Because Technology Never Stops

Teradyne (Shanghai) Co.,Ltd
泰瑞达(上海)有限公司

Certificate of Calibration

System Model： ETS-88 DUO

ESU-1200e
GDU-830
HPU
SPU-100
SPU-500
TCB

Calibration Date:05/28/2021
Re-calibration Due: 05/27/2022

The above product had been calibrated with instruments whose accuracies are traceable to the National Institute of Standards and Technology (NIST).

Instrumentation: Keysight 3458A
Cal Due : 09/21/2021
Humidity: 45%
Temperature: 22

Instrumentation: SR620

Cal Due : 09/21/2021
Humidity: 45%
Temperature: 22

Chunfeng.wang
Authorized Signature

RUNNING ETS-88TH/AC-2500 CALIBRATION
Revision 2019A 2019.1.1105.29
USING ASM7080
START OF TEST TIME: 5/28/2021 17:31:43

Calibration Result:
Completed Laps = 1
Test heads = 1A 1B

Board	Pos	Test#	Cal P/F/A	Cal Results	Check P/F/A	Check Results
DCB2500	0	0	n/a		n/a	
DCB2500cal	0	0	n/a		n/a	
MCU	0	700	1/0/0	Pass	1/0/0	Pass
MCU	1	700	1/0/0	Pass	1/0/0	Pass
SPU100	0	3700	1/0/0	Pass	1/0/0	Pass
SPU100	1	3700	1/0/0	Pass	1/0/0	Pass
SPU100	2	3700	1/0/0	Pass	1/0/0	Pass
SPU100	3	3700	1/0/0	Pass	1/0/0	Pass
SPU100	24	3700	1/0/0	Pass	1/0/0	Pass
SPU100	25	3700	1/0/0	Pass	1/0/0	Pass
SPU100	26	3700	1/0/0	Pass	1/0/0	Pass
SPU100	27	3700	1/0/0	Pass	1/0/0	Pass
SPU500	6	3600	1/0/0	Pass	1/0/0	Pass
SPU500	7	3600	1/0/0	Pass	1/0/0	Pass

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SPU500	10	3600	1/0/0	Pass	1/0/0	Pass
SPU500	11	3600	1/0/0	Pass	1/0/0	Pass
SPU500	30	3600	n/a		n/a	
SPU500	31	3600	1/0/0	Pass	1/0/0	Pass
SPU500	34	3600	1/0/0	Pass	1/0/0	Pass
SPU500	35	3600	1/0/0	Pass	1/0/0	Pass
HPU	8	4500	1/0/0	Pass	1/0/0	Pass
HPU	28	4500	1/0/0	Pass	1/0/0	Pass
HPU	32	4500	1/0/0	Pass	1/0/0	Pass
HPU	100	4500	1/0/0	Pass	1/0/0	Pass
HPU	101	4500	1/0/0	Pass	1/0/0	Pass
HPU	103	4500	1/0/0	Pass	1/0/0	Pass
HPU	104	4500	1/0/0	Pass	1/0/0	Pass
HPU	105	4500	1/0/0	Pass	1/0/0	Pass
HPU	106	4500	1/0/0	Pass	1/0/0	Pass
HPU	108	4500	1/0/0	Pass	1/0/0	Pass
HPU	109	4500	1/0/0	Pass	1/0/0	Pass
HVMU	16	6700	1/0/0	Pass	1/0/0	Pass
GDU830	12	6800	1/0/0	Pass	1/0/0	Pass

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ESU1200	18	6600	1/0/0	Pass	1/0/0	Pass

Calibration Summary Table:

Name	Cal Pass Laps	Chk Pass Laps	Cal Fail Laps	Chk Fail Laps
MCU	1	1		
SPU100	1	1		
SPU500	1	1		
HPU	1	1		
HVMU	1	1		
GDU830	1	1		
ESU1200	1	1		

Calibration Final Output Screen:

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  TEST#                                                          RESULT  UNITS
LOWER                UPPER ALARM TEST NAME
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   4500.0                                                             0
0       If this failed there are Fatal Errors during Startup, Check System
Monitor
4500.1000                                                  ETS1UOJUM00038
COMPUTER INFORMATION - Name
4500.1001                                                  1000.000000      V
DIAG/CAL INFORMATION - Maximum Voltage
4500.1101                                                          0
0       PLD REVISION INFORMATION
4500.1103                                                          0
0       PLD REVISION INFORMATION
4500.1105                                                          3
3       PLD REVISION INFORMATION
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4500.1106                                          DATA[0]={0, 0, 1, 0, 5}
PLD REVISION INFORMATION
4500.1107                                          DATA[1]={0, 1, 1, 0, 8}
PLD REVISION INFORMATION
4500.1108                                        DATA[2]={0, 0, 1, 0, 1990}
PLD REVISION INFORMATION
   4501.0                                                    -29.99428      V
-30.027              -29.973       LC->LC 16 Bit DRV 30V Range
   4501.1                                                 0.005719200000001      V
-0.027                0.027       Delta : LC->LC 16 Bit DRV 30V Range : -30.00
   4501.2                                                    -25.99788      V
-26.025              -25.975       LC->LC 16 Bit DRV 30V Range
   4501.3                                                 0.002123800000000      V
-0.025                0.025       Delta : LC->LC 16 Bit DRV 30V Range : -26.00
   4501.4                                                    -22.00021      V
-22.023              -21.977       LC->LC 16 Bit DRV 30V Range
   4501.5                                                -0.000214600000000      V
-0.023                0.023       Delta : LC->LC 16 Bit DRV 30V Range : -22.00
   4501.6                                                    -18.00155      V
-18.021              -17.979       LC->LC 16 Bit DRV 30V Range
   4501.7                                                -0.001552600000000      V
-0.021                0.021       Delta : LC->LC 16 Bit DRV 30V Range : -18.00
   4501.8                                                    -10.00255      V
-10.017               -9.983       LC->LC 16 Bit DRV 30V Range
   4501.9                                                -0.002545400000001      V
-0.017                0.017       Delta : LC->LC 16 Bit DRV 30V Range : -10.00
  4501.10                                                     -0.00270      V
-0.012                0.012       LC->LC 16 Bit DRV 30V Range
  4501.11                                                -0.002695990030000      V
-0.012                0.012       Delta : LC->LC 16 Bit DRV 30V Range : 0.00
  4501.12                                                      9.99786      V
9.983                10.017       LC->LC 16 Bit DRV 30V Range
  4501.13                                                -0.002135750000001      V
-0.017                0.017       Delta : LC->LC 16 Bit DRV 30V Range : 10.00
  4501.14                                                     18.00044      V
17.979               18.021       LC->LC 16 Bit DRV 30V Range
  4501.15                                                 0.000444399999999      V
-0.021                0.021       Delta : LC->LC 16 Bit DRV 30V Range : 18.00
  4501.16                                                     22.00026      V
21.977               22.023       LC->LC 16 Bit DRV 30V Range
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  4501.17                                                0.000262299999999      V
-0.023              0.023       Delta : LC->LC 16 Bit DRV 30V Range : 22.00
  4501.18                                                  26.00139             V
25.975              26.025       LC->LC 16 Bit DRV 30V Range
  4501.19                                                0.001394300000001      V
-0.025              0.025       Delta : LC->LC 16 Bit DRV 30V Range : 26.00
  4501.20                                                  30.00148             V
29.973              30.027       LC->LC 16 Bit DRV 30V Range
  4501.21                                                0.001477200000000      V
-0.027              0.027       Delta : LC->LC 16 Bit DRV 30V Range : 30.00
  4501.22                                                  -9.99821             V
-10.013             -9.987       LC->LC 16 Bit DRV 10V Range
  4501.23                                                0.001787190000000      V
-0.013              0.013       Delta : LC->LC 16 Bit DRV 10V Range : -10.00
  4501.24                                                  -7.99943             V
-8.012              -7.988       LC->LC 16 Bit DRV 10V Range
  4501.25                                                0.000567440000000      V
-0.012              0.012       Delta : LC->LC 16 Bit DRV 10V Range : -8.00
  4501.26                                                  -6.00033             V
-6.011              -5.989       LC->LC 16 Bit DRV 10V Range
  4501.27                                               -0.000329490000000      V
-0.011              0.011       Delta : LC->LC 16 Bit DRV 10V Range : -6.00
  4501.28                                                  -4.00045             V
-4.01               -3.99       LC->LC 16 Bit DRV 10V Range
  4501.29                                               -0.000449180000000      V
-0.01               0.01       Delta : LC->LC 16 Bit DRV 10V Range : -4.00
  4501.30                                                  -2.00054             V
-2.009              -1.991       LC->LC 16 Bit DRV 10V Range
  4501.31                                               -0.000535850000000      V
-0.009              0.009       Delta : LC->LC 16 Bit DRV 10V Range : -2.00
  4501.32                                                  -0.00070             V
-0.008              0.008       LC->LC 16 Bit DRV 10V Range
  4501.33                                               -0.000702561374000      V
-0.008              0.008       Delta : LC->LC 16 Bit DRV 10V Range : 0.00
  4501.34                                                   1.99927             V
1.991               2.009       LC->LC 16 Bit DRV 10V Range
  4501.35                                               -0.000732420000000      V
-0.009              0.009       Delta : LC->LC 16 Bit DRV 10V Range : 2.00
  4501.36                                                   3.99991             V
3.99                4.01       LC->LC 16 Bit DRV 10V Range
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4501.37			-0.000087140000000	V
-0.01	0.01	Delta : LC->LC 16 Bit DRV 10V Range : 4.00		
4501.38			6.00011	V
5.989	6.011	LC->LC 16 Bit DRV 10V Range		
4501.39			0.000106330000000	V
-0.011	0.011	Delta : LC->LC 16 Bit DRV 10V Range : 6.00		
4501.40			8.00081	V
7.988	8.012	LC->LC 16 Bit DRV 10V Range		
4501.41			0.000805850000001	V
-0.012	0.012	Delta : LC->LC 16 Bit DRV 10V Range : 8.00		
4501.42			10.00072	V
9.987	10.013	LC->LC 16 Bit DRV 10V Range		
4501.43			0.000719500000001	V
-0.013	0.013	Delta : LC->LC 16 Bit DRV 10V Range : 10.00		
4502.0			-30.00112	V
-30.014	-29.987	LC->LC 18 Bit DRV 30V Range		
4502.1			-0.001121500000000	V
-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V Range : -30.00		
4502.2			-15.00136	V
-15.01	-14.99	LC->LC 18 Bit DRV 30V Range		
4502.3			-0.001358500000000	V
-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V Range : -15.00		
4502.4			0.00050	V
-0.006	0.006	LC->LC 18 Bit DRV 30V Range		
4502.5			0.000503812917000	V
-0.006	0.006	Delta : LC->LC 18 Bit DRV 30V Range : 0.00		
4502.6			15.00112	V
14.99	15.01	LC->LC 18 Bit DRV 30V Range		
4502.7			0.001116800000000	V
-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V Range : 15.00		
4502.8			29.99974	V
29.987	30.014	LC->LC 18 Bit DRV 30V Range		
4502.9			-0.000258400000000	V
-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V Range : 30.00		
4502.10			-10.00004	V
-10.007	-9.9935	LC->LC 18 Bit DRV 10V Range		
4502.11			-0.000037200000000	V
-0.0065	0.0065	Delta : LC->LC 18 Bit DRV 10V Range : -10.00		
4502.12			-5.00025	V
-5.0053	-4.9948	LC->LC 18 Bit DRV 10V Range		

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  4502.13                                                -0.000251290000000      V
-0.00525              0.00525       Delta : LC->LC 18 Bit DRV 10V Range : -5.00
  4502.14                                                 0.00011      V
-0.004                0.004       LC->LC 18 Bit DRV 10V Range
  4502.15                                                0.000108404249000      V
-0.004                0.004       Delta : LC->LC 18 Bit DRV 10V Range : 0.00
  4502.16                                                 5.00022      V
4.9948                5.0053      LC->LC 18 Bit DRV 10V Range
  4502.17                                                0.000215770000000      V
-0.00525              0.00525       Delta : LC->LC 18 Bit DRV 10V Range : 5.00
  4502.18                                                10.00000      V
9.9935                10.007      LC->LC 18 Bit DRV 10V Range
  4502.19                                                -0.000004290000000      V
-0.0065               0.0065       Delta : LC->LC 18 Bit DRV 10V Range : 10.00
   4503.0                                                -100.00068      V
-100.04               -99.963       LC->LC V/I Mode FV 100V Range
   4503.1                                                -0.000679000000005      V
-0.0375               0.0375       Delta : LC->LC V/I Mode FV 100V Range : -
100.00
   4503.2                          Exp= -100.00068  Act= -100.00037       V
LC->LC V/I Mode MV 100V Range
   4503.3                                                0.000313148412602      V
-0.0375               0.0375       Delta : LC->LC V/I Mode MV 100V Range : -
100.00
   4503.4                                                 -50.00040      V
-50.025               -49.975       LC->LC V/I Mode FV 100V Range
   4503.5                                               -0.000398599999997      V
-0.025                0.025       Delta : LC->LC V/I Mode FV 100V Range : -50.00
   4503.6                          Exp= -50.00040   Act= -50.00015        V
LC->LC V/I Mode MV 100V Range
   4503.7                                                0.000246836093034      V
-0.025                0.025       Delta : LC->LC V/I Mode MV 100V Range : -50.00
   4503.8                                                  0.00019      V
-0.0125               0.0125       LC->LC V/I Mode FV 100V Range
   4503.9                                                0.000191700077000      V
-0.0125               0.0125       Delta : LC->LC V/I Mode FV 100V Range : 0.00
  4503.10                          Exp= 0.00019     Act= 0.00063          V
LC->LC V/I Mode MV 100V Range
  4503.11                                                0.000439826425946      V
-0.0125               0.0125       Delta : LC->LC V/I Mode MV 100V Range : 0.00
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  4503.12                                                    50.00035      V
49.975              50.025      LC->LC V/I Mode FV 100V Range
  4503.13                                                0.000347099999999      V
-0.025               0.025      Delta : LC->LC V/I Mode FV 100V Range : 50.00
  4503.14                            Exp= 50.00035    Act= 50.00038          V
LC->LC V/I Mode MV 100V Range
  4503.15                                                0.000030869362270      V
-0.025               0.025      Delta : LC->LC V/I Mode MV 100V Range : 50.00
  4503.16                                                   100.00007      V
99.963              100.04      LC->LC V/I Mode FV 100V Range
  4503.17                                                0.000068999999996      V
-0.0375              0.0375      Delta : LC->LC V/I Mode FV 100V Range : 100.00
  4503.18                            Exp= 100.00007   Act= 100.00048         V
LC->LC V/I Mode MV 100V Range
  4503.19                                                0.000413718569888      V
-0.0375              0.0375      Delta : LC->LC V/I Mode MV 100V Range : 100.00
  4503.20                                                  -30.00021      V
-30.01              -29.99      LC->LC V/I Mode FV 30V Range
  4503.21                                               -0.000210800000001      V
-0.01                0.01      Delta : LC->LC V/I Mode FV 30V Range : -30.00
  4503.22                            Exp= -30.00021   Act= -30.00028         V
LC->LC V/I Mode MV 30V Range
  4503.23                                               -0.000070038933636      V
-0.01                0.01      Delta : LC->LC V/I Mode MV 30V Range : -30.00
  4503.24                                                  -15.00010      V
-15.006             -14.994      LC->LC V/I Mode FV 30V Range
  4503.25                                               -0.000100099999999      V
-0.00625             0.00625      Delta : LC->LC V/I Mode FV 30V Range : -15.00
  4503.26                           Exp= -15.00010   Act= -15.00014         V
LC->LC V/I Mode MV 30V Range
  4503.27                                               -0.000035763009553      V
-0.00625             0.00625      Delta : LC->LC V/I Mode MV 30V Range : -15.00
  4503.28                                                    0.00009      V
-0.0025              0.0025      LC->LC V/I Mode FV 30V Range
  4503.29                                                0.000087539341600      V
-0.0025              0.0025      Delta : LC->LC V/I Mode FV 30V Range : 0.00
  4503.30                            Exp= 0.00009     Act= 0.00016          V
LC->LC V/I Mode MV 30V Range
  4503.31                                                0.000075573197683      V
-0.0025              0.0025      Delta : LC->LC V/I Mode MV 30V Range : 0.00
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  4503.32                                                    14.99990      V
14.994              15.006       LC->LC V/I Mode FV 30V Range
  4503.33                                          -0.000095399999999      V
-0.00625             0.00625       Delta : LC->LC V/I Mode FV 30V Range : 15.00
  4503.34                             Exp= 14.99990    Act= 15.00002         V
LC->LC V/I Mode MV 30V Range
  4503.35                                           0.000117091949644      V
-0.00625             0.00625       Delta : LC->LC V/I Mode MV 30V Range : 15.00
  4503.36                                                    30.00020      V
29.99               30.01       LC->LC V/I Mode FV 30V Range
  4503.37                                           0.000202200000000      V
-0.01                0.01       Delta : LC->LC V/I Mode FV 30V Range : 30.00
  4503.38                             Exp= 30.00020    Act= 30.00008         V
LC->LC V/I Mode MV 30V Range
  4503.39                                          -0.000119207968432      V
-0.01                0.01       Delta : LC->LC V/I Mode MV 30V Range : 30.00
  4503.40                                                   -10.00008      V
-10.003             -9.9967       LC->LC V/I Mode FV 10V Range
  4503.41                                          -0.000080100000000      V
-0.0033              0.0033       Delta : LC->LC V/I Mode FV 10V Range : -10.00
  4503.42                             Exp= -10.00008   Act= -10.00005        V
LC->LC V/I Mode MV 10V Range
  4503.43                                           0.000032379073399      V
-0.0033              0.0033       Delta : LC->LC V/I Mode MV 10V Range : -10.00
  4503.44                                                    -5.00001      V
-5.0021              -4.998       LC->LC V/I Mode FV 10V Range
  4503.45                                          -0.000007630000000      V
-0.00205             0.00205       Delta : LC->LC V/I Mode FV 10V Range : -5.00
  4503.46                             Exp= -5.00001    Act= -5.00002         V
LC->LC V/I Mode MV 10V Range
  4503.47                                          -0.000017308872138      V
-0.00205             0.00205       Delta : LC->LC V/I Mode MV 10V Range : -5.00
  4503.48                                                    -0.00001      V
-0.0008              0.0008       LC->LC V/I Mode FV 10V Range
  4503.49                                          -0.000007158075050      V
-0.0008              0.0008       Delta : LC->LC V/I Mode FV 10V Range : 0.00
  4503.50                             Exp= -0.00001    Act= 0.00001          V
LC->LC V/I Mode MV 10V Range
  4503.51                                           0.000017798947026      V
-0.0008              0.0008       Delta : LC->LC V/I Mode MV 10V Range : 0.00
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  4503.52                                                    4.99995      V
4.998              5.0021       LC->LC V/I Mode FV 10V Range
  4503.53                                          -0.000051740000000      V
-0.00205             0.00205      Delta : LC->LC V/I Mode FV 10V Range : 5.00
  4503.54                            Exp= 4.99995     Act= 4.99998          V
LC->LC V/I Mode MV 10V Range
  4503.55                                           0.000027930955084      V
-0.00205             0.00205      Delta : LC->LC V/I Mode MV 10V Range : 5.00
  4503.56                                                    9.99998      V
9.9967              10.003       LC->LC V/I Mode FV 10V Range
  4503.57                                          -0.000020500000000      V
-0.0033              0.0033       Delta : LC->LC V/I Mode FV 10V Range : 10.00
  4503.58                            Exp= 9.99998     Act= 9.99998          V
LC->LC V/I Mode MV 10V Range
  4503.59                                          -0.000003848544848      V
-0.0033              0.0033       Delta : LC->LC V/I Mode MV 10V Range : 10.00
  4503.60                                                  -74.99993      V
-75.031             -74.969       HC->HC V/I Mode FV 75V Range
  4503.61                                           0.000068700000000      V
-0.03125             0.03125      Delta : HC->HC V/I Mode FV 75V Range : -75.00
  4503.62                            Exp= -74.99993   Act= -74.99947        V
HC->HC V/I Mode MV 75V Range
  4503.63                                           0.000459094391175      V
-0.03125             0.03125      Delta : HC->HC V/I Mode MV 75V Range : -75.00
  4503.64                                                  -37.49952      V
-37.522             -37.478       HC->HC V/I Mode FV 75V Range
  4503.65                                           0.000476800000001      V
-0.021875            0.021875      Delta : HC->HC V/I Mode FV 75V Range : -
37.50
  4503.66                            Exp= -37.49952   Act= -37.49936        V
HC->HC V/I Mode MV 75V Range
  4503.67                                           0.000158706696077      V
-0.021875            0.021875      Delta : HC->HC V/I Mode MV 75V Range : -
37.50
  4503.68                                                   -0.00008      V
-0.0125              0.0125       HC->HC V/I Mode FV 75V Range
  4503.69                                          -0.000079413328400      V
-0.0125              0.0125       Delta : HC->HC V/I Mode FV 75V Range : 0.00
  4503.70                            Exp= -0.00008    Act= 0.00043          V
HC->HC V/I Mode MV 75V Range
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  4503.71                                                0.000509246257976      V
-0.0125              0.0125       Delta : HC->HC V/I Mode MV 75V Range : 0.00
  4503.72                                                        37.50047      V
37.478               37.522       HC->HC V/I Mode FV 75V Range
  4503.73                                                0.000465400000003      V
-0.021875            0.021875       Delta : HC->HC V/I Mode FV 75V Range : 37.50
  4503.74                          Exp= 37.50047    Act= 37.50069          V
HC->HC V/I Mode MV 75V Range
  4503.75                                                0.000224065073667      V
-0.021875            0.021875       Delta : HC->HC V/I Mode MV 75V Range : 37.50
  4503.76                                                        74.99932      V
74.969               75.031       HC->HC V/I Mode FV 75V Range
  4503.77                                               -0.000675200000003      V
-0.03125             0.03125       Delta : HC->HC V/I Mode FV 75V Range : 75.00
  4503.78                          Exp= 74.99932    Act= 75.00002          V
HC->HC V/I Mode MV 75V Range
  4503.79                                                0.000694432172921      V
-0.03125             0.03125       Delta : HC->HC V/I Mode MV 75V Range : 75.00
  4503.80                                                       -30.00003      V
-30.01               -29.99       HC->HC V/I Mode FV 30V Range
  4503.81                                               -0.000025699999998      V
-0.01                0.01       Delta : HC->HC V/I Mode FV 30V Range : -30.00
  4503.82                          Exp= -30.00003   Act= -30.00012         V
HC->HC V/I Mode MV 30V Range
  4503.83                                               -0.000095618465608      V
-0.01                0.01       Delta : HC->HC V/I Mode MV 30V Range : -30.00
  4503.84                                                       -14.99988      V
-15.006              -14.994       HC->HC V/I Mode FV 30V Range
  4503.85                                                0.000116300000000      V
-0.00625             0.00625       Delta : HC->HC V/I Mode FV 30V Range : -15.00
  4503.86                          Exp= -14.99988   Act= -15.00003         V
HC->HC V/I Mode MV 30V Range
  4503.87                                               -0.000144683401144      V
-0.00625             0.00625       Delta : HC->HC V/I Mode MV 30V Range : -15.00
  4503.88                                                        0.00005      V
-0.0025              0.0025       HC->HC V/I Mode FV 30V Range
  4503.89                                                0.000045062445700      V
-0.0025              0.0025       Delta : HC->HC V/I Mode FV 30V Range : 0.00
  4503.90                          Exp= 0.00005     Act= 0.00014           V
HC->HC V/I Mode MV 30V Range
```

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  4503.91                                                0.000099622509247      V
-0.0025              0.0025       Delta : HC->HC V/I Mode MV 30V Range : 0.00
  4503.92                                                      14.99987      V
14.994               15.006       HC->HC V/I Mode FV 30V Range
  4503.93                                               -0.000130199999999      V
-0.00625             0.00625      Delta : HC->HC V/I Mode FV 30V Range : 15.00
  4503.94                          Exp= 14.99987    Act= 15.00006          V
HC->HC V/I Mode MV 30V Range
  4503.95                                               0.000187037645695      V
-0.00625             0.00625      Delta : HC->HC V/I Mode MV 30V Range : 15.00
  4503.96                                                      29.99992      V
29.99                30.01       HC->HC V/I Mode FV 30V Range
  4503.97                                               -0.000080100000002      V
-0.01                0.01       Delta : HC->HC V/I Mode FV 30V Range : 30.00
  4503.98                          Exp= 29.99992    Act= 30.00009          V
HC->HC V/I Mode MV 30V Range
  4503.99                                               0.000173072255954      V
-0.01                0.01       Delta : HC->HC V/I Mode MV 30V Range : 30.00
 4503.100                                                     -10.00002      V
-10.003              -9.9967      HC->HC V/I Mode FV 10V Range
 4503.101                                              -0.000019999999999      V
-0.0033              0.0033       Delta : HC->HC V/I Mode FV 10V Range : -10.00
 4503.102                          Exp= -10.00002   Act= -9.99995          V
HC->HC V/I Mode MV 10V Range
 4503.103                                               0.000070449225428      V
-0.0033              0.0033       Delta : HC->HC V/I Mode MV 10V Range : -10.00
 4503.104                                                      -4.99996      V
-5.0021              -4.998       HC->HC V/I Mode FV 10V Range
 4503.105                                               0.000039580000000      V
-0.00205             0.00205      Delta : HC->HC V/I Mode FV 10V Range : -5.00
 4503.106                          Exp= -4.99996    Act= -4.99992          V
HC->HC V/I Mode MV 10V Range
 4503.107                                               0.000043031969986      V
-0.00205             0.00205      Delta : HC->HC V/I Mode MV 10V Range : -5.00
 4503.108                                                       0.00004      V
-0.0008              0.0008       HC->HC V/I Mode FV 10V Range
 4503.109                                               0.000038410081300      V
-0.0008              0.0008       Delta : HC->HC V/I Mode FV 10V Range : 0.00
 4503.110                          Exp= 0.00004     Act= 0.00007           V
HC->HC V/I Mode MV 10V Range
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 4503.111                                                0.000032738119297      V
-0.0008               0.0008       Delta : HC->HC V/I Mode MV 10V Range : 0.00
 4503.112                                                      4.99999      V
4.998                5.0021       HC->HC V/I Mode FV 10V Range
 4503.113                                               -0.000006680000000      V
-0.00205              0.00205      Delta : HC->HC V/I Mode FV 10V Range : 5.00
 4503.114                    Exp= 4.99999     Act= 5.00006          V
HC->HC V/I Mode MV 10V Range
 4503.115                                                0.000063339400707      V
-0.00205              0.00205      Delta : HC->HC V/I Mode MV 10V Range : 5.00
 4503.116                                                     10.00003      V
9.9967               10.003       HC->HC V/I Mode FV 10V Range
 4503.117                                                0.000026699999999      V
-0.0033               0.0033       Delta : HC->HC V/I Mode FV 10V Range : 10.00
 4503.118                    Exp= 10.00003    Act= 10.00005         V
HC->HC V/I Mode MV 10V Range
 4503.119                                                0.000027062157789      V
-0.0033               0.0033       Delta : HC->HC V/I Mode MV 10V Range : 10.00
 4503.120                                              HC relays OK
DIB HC Relays Check
 4503.121                                                           0 status
0       DIB HC Relays Check
4504.1000                                          HC relays verified
DIB HC Relays Check
4504.1001                                                          0 status
0       DIB HC Relays Check
4504.1002                                                  -500.00076     mA
-500.38           -499.63      LC->LC FI 100V Range 500mA
4504.1003                                               -0.000760000000071     mA
-0.375                0.375       Delta : LC->LC FI 100V Range 500mA : -500.00
4504.1004                   Exp= -500.00076  Act= -500.01308      mA
LC->LC MI 100V Range 500mA
4504.1005                                               -0.012318851211433     mA
-0.375                0.375       Delta : LC->LC MI 100V Range 500mA : -500.00
4504.1006                                                  -250.00192     mA
-250.25           -249.75      LC->LC FI 100V Range 500mA
4504.1007                                               -0.001921999999979     mA
-0.25                 0.25       Delta : LC->LC FI 100V Range 500mA : -250.00
4504.1008                   Exp= -250.00192  Act= -250.01475      mA
LC->LC MI 100V Range 500mA
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4504.1009                                                -0.012826832184317      mA
-0.25                0.25       Delta : LC->LC MI 100V Range 500mA : -250.00
4504.1010                                                         0.00146      mA
-0.125               0.125       LC->LC FI 100V Range 500mA
4504.1011                                                 0.001457554160000      mA
-0.125               0.125       Delta : LC->LC FI 100V Range 500mA : 0.00
4504.1012                              Exp= 0.00146      Act= -0.01079          mA
LC->LC MI 100V Range 500mA
4504.1013                                                -0.012247977497614      mA
-0.125               0.125       Delta : LC->LC MI 100V Range 500mA : 0.00
4504.1014                                                       249.99840      mA
249.75               250.25       LC->LC FI 100V Range 500mA
4504.1015                                                -0.001601999999991      mA
-0.25                0.25       Delta : LC->LC FI 100V Range 500mA : 250.00
4504.1016                              Exp= 249.99840    Act= 249.98457         mA
LC->LC MI 100V Range 500mA
4504.1017                                                -0.013830576886022      mA
-0.25                0.25       Delta : LC->LC MI 100V Range 500mA : 250.00
4504.1018                                                       500.00471      mA
499.63               500.38       LC->LC FI 100V Range 500mA
4504.1019                                                 0.004709000000048      mA
-0.375               0.375       Delta : LC->LC FI 100V Range 500mA : 500.00
4504.1020                              Exp= 500.00471    Act= 499.98842         mA
LC->LC MI 100V Range 500mA
4504.1021                                                -0.016291489768832      mA
-0.375               0.375       Delta : LC->LC MI 100V Range 500mA : 500.00
4504.1022                                                      -950.00252      mA
-950.6               -949.4       LC->LC FI 30V Range 1A
4504.1023                                                -0.002521000000002      mA
-0.6                 0.6        Delta : LC->LC FI 30V Range 1A : -950.00
4504.1024                              Exp= -950.00252   Act= -950.02616        mA
LC->LC MI 30V Range 1A
4504.1025                                                -0.023636999673840      mA
-0.6                 0.6        Delta : LC->LC MI 30V Range 1A : -950.00
4504.1026                                                      -475.00645      mA
-475.36              -474.64       LC->LC FI 30V Range 1A
4504.1027                                                -0.006446000000039      mA
-0.3625              0.3625       Delta : LC->LC FI 30V Range 1A : -475.00
4504.1028                              Exp= -475.00645   Act= -475.03162        mA
LC->LC MI 30V Range 1A
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4504.1029                                                -0.025177543256575     mA
-0.3625              0.3625       Delta : LC->LC MI 30V Range 1A : -475.00
4504.1030                                                         0.00756     mA
-0.125               0.125        LC->LC FI 30V Range 1A
4504.1031                                                 0.007556267970000     mA
-0.125               0.125        Delta : LC->LC FI 30V Range 1A : 0.00
4504.1032                              Exp= 0.00756      Act= -0.01948         mA
LC->LC MI 30V Range 1A
4504.1033                                                -0.027034537819889     mA
-0.125               0.125        Delta : LC->LC MI 30V Range 1A : 0.00
4504.1034                                                       474.99798     mA
474.64               475.36       LC->LC FI 30V Range 1A
4504.1035                                                -0.002018000000021     mA
-0.3625              0.3625       Delta : LC->LC FI 30V Range 1A : 475.00
4504.1036                              Exp= 474.99798    Act= 474.97625        mA
LC->LC MI 30V Range 1A
4504.1037                                                -0.021731898458143     mA
-0.3625              0.3625       Delta : LC->LC MI 30V Range 1A : 475.00
4504.1038                                                       949.99999     mA
949.4                950.6       LC->LC FI 30V Range 1A
4504.1039                                                -0.000012000000083     mA
-0.6                 0.6       Delta : LC->LC FI 30V Range 1A : 950.00
4504.1040                              Exp= 949.99999    Act= 949.97549        mA
LC->LC MI 30V Range 1A
4504.1041                                                -0.024500140632767     mA
-0.6                 0.6       Delta : LC->LC MI 30V Range 1A : 950.00
4504.1042                                                      -100.00004     mA
-100.06              -99.938       LC->LC FI 30V Range 100mA
4504.1043                                                -0.000041999999993     mA
-0.0625              0.0625       Delta : LC->LC FI 30V Range 100mA : -100.00
4504.1044                              Exp= -100.00004   Act= -100.00294       mA
LC->LC MI 30V Range 100mA
4504.1045                                                -0.002900232973929     mA
-0.0625              0.0625       Delta : LC->LC MI 30V Range 100mA : -100.00
4504.1046                                                       -50.00005     mA
-50.038              -49.963       LC->LC FI 30V Range 100mA
4504.1047                                                -0.000047300000006     mA
-0.0375              0.0375       Delta : LC->LC FI 30V Range 100mA : -50.00
4504.1048                              Exp= -50.00005    Act= -50.00271        mA
LC->LC MI 30V Range 100mA
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4504.1049                                                -0.002660829337721      mA
-0.0375              0.0375       Delta : LC->LC MI 30V Range 100mA : -50.00
4504.1050                                                       0.00031      mA
-0.0125              0.0125       LC->LC FI 30V Range 100mA
4504.1051                                                0.000310676910000      mA
-0.0125              0.0125       Delta : LC->LC FI 30V Range 100mA : 0.00
4504.1052                              Exp= 0.00031      Act= -0.00238          mA
LC->LC MI 30V Range 100mA
4504.1053                                                -0.002691743602507      mA
-0.0125              0.0125       Delta : LC->LC MI 30V Range 100mA : 0.00
4504.1054                                                      50.00038      mA
49.963               50.038       LC->LC FI 30V Range 100mA
4504.1055                                                0.000378900000001      mA
-0.0375              0.0375       Delta : LC->LC FI 30V Range 100mA : 50.00
4504.1056                              Exp= 50.00038     Act= 49.99742          mA
LC->LC MI 30V Range 100mA
4504.1057                                                -0.002956609361433      mA
-0.0375              0.0375       Delta : LC->LC MI 30V Range 100mA : 50.00
4504.1058                                                      99.99980      mA
99.938               100.06       LC->LC FI 30V Range 100mA
4504.1059                                                -0.000196000000003      mA
-0.0625              0.0625       Delta : LC->LC FI 30V Range 100mA : 100.00
4504.1060                              Exp= 99.99980     Act= 99.99692          mA
LC->LC MI 30V Range 100mA
4504.1061                                                -0.002887207467253      mA
-0.0625              0.0625       Delta : LC->LC MI 30V Range 100mA : 100.00
4504.1062                                                     -10.00008      mA
-10.006              -9.9938      LC->LC FI 30V Range 10mA
4504.1063                                                -0.000084500000002      mA
-0.00625             0.00625       Delta : LC->LC FI 30V Range 10mA : -10.00
4504.1064                              Exp= -10.00008    Act= -10.00030         mA
LC->LC MI 30V Range 10mA
4504.1065                                                -0.000213633448244      mA
-0.00625             0.00625       Delta : LC->LC MI 30V Range 10mA : -10.00
4504.1066                                                      -4.99997      mA
-5.0038              -4.9963      LC->LC FI 30V Range 10mA
4504.1067                                                0.000026420000000      mA
-0.00375             0.00375       Delta : LC->LC FI 30V Range 10mA : -5.00
4504.1068                              Exp= -4.99997     Act= -5.00020          mA
LC->LC MI 30V Range 10mA
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4504.1069                                                -0.000227157869316      mA
-0.00375              0.00375       Delta : LC->LC MI 30V Range 10mA : -5.00
4504.1070                                                 0.00010      mA
-0.00125              0.00125       LC->LC FI 30V Range 10mA
4504.1071                                                 0.000097512838700      mA
-0.00125              0.00125       Delta : LC->LC FI 30V Range 10mA : 0.00
4504.1072                    Exp= 0.00010     Act= -0.00017          mA
LC->LC MI 30V Range 10mA
4504.1073                                                -0.000267675239736      mA
-0.00125              0.00125       Delta : LC->LC MI 30V Range 10mA : 0.00
4504.1074                                                 5.00002      mA
4.9963                5.0038       LC->LC FI 30V Range 10mA
4504.1075                                                 0.000018510000000      mA
-0.00375              0.00375       Delta : LC->LC FI 30V Range 10mA : 5.00
4504.1076                    Exp= 5.00002     Act= 4.99975           mA
LC->LC MI 30V Range 10mA
4504.1077                                                -0.000267838385472      mA
-0.00375              0.00375       Delta : LC->LC MI 30V Range 10mA : 5.00
4504.1078                                                 10.00010      mA
9.9938                10.006       LC->LC FI 30V Range 10mA
4504.1079                                                 0.000102199999999      mA
-0.00625              0.00625       Delta : LC->LC FI 30V Range 10mA : 10.00
4504.1080                    Exp= 10.00010    Act= 9.99974           mA
LC->LC MI 30V Range 10mA
4504.1081                                                -0.000357239275484      mA
-0.00625              0.00625       Delta : LC->LC MI 30V Range 10mA : 10.00
4504.1082                                                 -1.00000      mA
-1.0006           -0.99938       LC->LC FI 30V Range 1mA
4504.1083                                                 -0.000004010000000      mA
-0.000625             0.000625       Delta : LC->LC FI 30V Range 1mA : -1.00
4504.1084                    Exp= -1.00000    Act= -1.00002          mA
LC->LC MI 30V Range 1mA
4504.1085                                                -0.000017764009260      mA
-0.000625             0.000625       Delta : LC->LC MI 30V Range 1mA : -1.00
4504.1086                                                 -0.50000      mA
-0.50038              -0.49963       LC->LC FI 30V Range 1mA
4504.1087                                                 0.000003352000000      mA
-0.000375             0.000375       Delta : LC->LC FI 30V Range 1mA : -0.50
4504.1088                    Exp= -0.50000    Act= -0.50002          mA
LC->LC MI 30V Range 1mA
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4504.1089                                                -0.000023789902417      mA
-0.000375            0.000375       Delta : LC->LC MI 30V Range 1mA : -0.50
4504.1090                                                     0.00001      mA
-0.000125            0.000125       LC->LC FI 30V Range 1mA
4504.1091                                                 0.000009539438570      mA
-0.000125            0.000125       Delta : LC->LC FI 30V Range 1mA : 0.00
4504.1092                          Exp= 0.00001     Act= -0.00002          mA
LC->LC MI 30V Range 1mA
4504.1093                                                -0.000026008247469      mA
-0.000125            0.000125       Delta : LC->LC MI 30V Range 1mA : 0.00
4504.1094                                                     0.50000      mA
0.49963              0.50038       LC->LC FI 30V Range 1mA
4504.1095                                                -0.000002305000000      mA
-0.000375            0.000375       Delta : LC->LC FI 30V Range 1mA : 0.50
4504.1096                          Exp= 0.50000     Act= 0.49997           mA
LC->LC MI 30V Range 1mA
4504.1097                                                -0.000024073028605      mA
-0.000375            0.000375       Delta : LC->LC MI 30V Range 1mA : 0.50
4504.1098                                                     1.00001      mA
0.99938              1.0006        LC->LC FI 30V Range 1mA
4504.1099                                                 0.000011570000000      mA
-0.000625            0.000625       Delta : LC->LC FI 30V Range 1mA : 1.00
4504.1100                          Exp= 1.00001     Act= 0.99997           mA
LC->LC MI 30V Range 1mA
4504.1101                                                -0.000036828686935      mA
-0.000625            0.000625       Delta : LC->LC MI 30V Range 1mA : 1.00
4504.1102                                                   -100.00011      uA
-100.08              -99.925       LC->LC FI 30V Range 100uA
4504.1103                                                -0.000113999999996      uA
-0.075               0.075        Delta : LC->LC FI 30V Range 100uA : -100.00
4504.1104                          Exp= -100.00011  Act= -100.00242        uA
LC->LC MI 30V Range 100uA
4504.1105                                                -0.002301237969164      uA
-0.07                0.07        Delta : LC->LC MI 30V Range 100uA : -100.00
4504.1106                                                    -50.00031      uA
-50.05               -49.95        LC->LC FI 30V Range 100uA
4504.1107                                                -0.000311599999996      uA
-0.05                0.05        Delta : LC->LC FI 30V Range 100uA : -50.00
4504.1108                          Exp= -50.00031   Act= -50.00256         uA
LC->LC MI 30V Range 100uA
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4504.1109 -0.002249872246310 uA
-0.045 0.045 Delta : LC->LC MI 30V Range 100uA : -50.00
4504.1110 0.00055 uA
-0.025 0.025 LC->LC FI 30V Range 100uA
4504.1111 0.000547575346000 uA
-0.025 0.025 Delta : LC->LC FI 30V Range 100uA : 0.00
4504.1112 Exp= 0.00055 Act= -0.00225 uA
LC->LC MI 30V Range 100uA
4504.1113 -0.002796746563613 uA
-0.02 0.02 Delta : LC->LC MI 30V Range 100uA : 0.00
4504.1114 49.99997 uA
49.95 50.05 LC->LC FI 30V Range 100uA
4504.1115 -0.000030400000000 uA
-0.05 0.05 Delta : LC->LC FI 30V Range 100uA : 50.00
4504.1116 Exp= 49.99997 Act= 49.99786 uA
LC->LC MI 30V Range 100uA
4504.1117 -0.002106412929251 uA
-0.045 0.045 Delta : LC->LC MI 30V Range 100uA : 50.00
4504.1118 100.00094 uA
99.925 100.08 LC->LC FI 30V Range 100uA
4504.1119 0.000935999999996 uA
-0.075 0.075 Delta : LC->LC FI 30V Range 100uA : 100.00
4504.1120 Exp= 100.00094 Act= 99.99768 uA
LC->LC MI 30V Range 100uA
4504.1121 -0.003255884354815 uA
-0.07 0.07 Delta : LC->LC MI 30V Range 100uA : 100.00
4504.1122 -9.99991 uA
-10.02 -9.98 LC->LC FI 30V Range 10uA
4504.1123 0.000088020000000 uA
-0.02 0.02 Delta : LC->LC FI 30V Range 10uA : -10.00
4504.1124 Exp= -9.99991 Act= -10.00025 uA
LC->LC MI 30V Range 10uA
4504.1125 -0.000339181953624 uA
-0.017 0.017 Delta : LC->LC MI 30V Range 10uA : -10.00
4504.1126 0.00020 uA
-0.01 0.01 LC->LC FI 30V Range 10uA
4504.1127 0.000204274219000 uA
-0.01 0.01 Delta : LC->LC FI 30V Range 10uA : 0.00
4504.1128 Exp= 0.00020 Act= -0.00016 uA
LC->LC MI 30V Range 10uA

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4504.1129                                                -0.000363264212953      uA
-0.012                0.012       Delta : LC->LC MI 30V Range 10uA : 0.00
4504.1130                                                10.00000      uA
9.98                  10.02       LC->LC FI 30V Range 10uA
4504.1131                                                -0.000004350000001      uA
-0.02                 0.02        Delta : LC->LC FI 30V Range 10uA : 10.00
4504.1132                              Exp= 10.00000    Act= 9.99972          uA
LC->LC MI 30V Range 10uA
4504.1133                                                -0.000278053846511      uA
-0.017                0.017       Delta : LC->LC MI 30V Range 10uA : 10.00
4504.1134                                                -1.00000      uA
-1.006                -0.994      LC->LC FI 30V Range 1uA
4504.1135                                                -0.000003120000000      uA
-0.006                0.006       Delta : LC->LC FI 30V Range 1uA : -1.00
4504.1136                              Exp= -1.00000    Act= -1.00002         uA
LC->LC MI 30V Range 1uA
4504.1137                                                -0.000018521984460      uA
-0.0085               0.0085       Delta : LC->LC MI 30V Range 1uA : -1.00
4504.1138                                                0.00002      uA
-0.005                0.005       LC->LC FI 30V Range 1uA
4504.1139                                                0.000021581791900      uA
-0.005                0.005       Delta : LC->LC FI 30V Range 1uA : 0.00
4504.1140                              Exp= 0.00002     Act= -0.00002         uA
LC->LC MI 30V Range 1uA
4504.1141                                                -0.000040228456637      uA
-0.008                0.008       Delta : LC->LC MI 30V Range 1uA : 0.00
4504.1142                                                0.99994      uA
0.994                 1.006       LC->LC FI 30V Range 1uA
4504.1143                                                -0.000061166000000      uA
-0.006                0.006       Delta : LC->LC FI 30V Range 1uA : 1.00
4504.1144                              Exp= 0.99994     Act= 0.99997          uA
LC->LC MI 30V Range 1uA
4504.1145                                                0.000033483202554      uA
-0.0085               0.0085       Delta : LC->LC MI 30V Range 1uA : 1.00
4504.1146                                                -949.98741      mA
-950.73               -949.28      LC->LC FI 10V Range 2A
4504.1147                                                0.012589000000048      mA
-0.725                0.725       Delta : LC->LC FI 10V Range 2A : -950.00
4504.1148                              Exp= -949.98741  Act= -950.03403       mA
LC->LC MI 10V Range 2A
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4504.1149                                                -0.046623720858406      mA
-0.725              0.725       Delta : LC->LC MI 10V Range 2A : -950.00
4504.1150                                                -475.00494      mA
-475.49             -474.51      LC->LC FI 10V Range 2A
4504.1151                                                -0.004941000000031      mA
-0.4875             0.4875       Delta : LC->LC FI 10V Range 2A : -475.00
4504.1152                        Exp= -475.00494  Act= -475.06228       mA
LC->LC MI 10V Range 2A
4504.1153                                                -0.057339089446714      mA
-0.4875             0.4875       Delta : LC->LC MI 10V Range 2A : -475.00
4504.1154                                                0.01112      mA
-0.25               0.25       LC->LC FI 10V Range 2A
4504.1155                                                0.011123439900000      mA
-0.25               0.25       Delta : LC->LC FI 10V Range 2A : 0.00
4504.1156                        Exp= 0.01112     Act= -0.04449         mA
LC->LC MI 10V Range 2A
4504.1157                                                -0.055615326983192      mA
-0.25               0.25       Delta : LC->LC MI 10V Range 2A : 0.00
4504.1158                                                475.00764      mA
474.51              475.49       LC->LC FI 10V Range 2A
4504.1159                                                0.007637999999986      mA
-0.4875             0.4875       Delta : LC->LC FI 10V Range 2A : 475.00
4504.1160                        Exp= 475.00764   Act= 474.95736        mA
LC->LC MI 10V Range 2A
4504.1161                                                -0.050274316413038      mA
-0.4875             0.4875       Delta : LC->LC MI 10V Range 2A : 475.00
4504.1162                                                950.00166      mA
949.28              950.73       LC->LC FI 10V Range 2A
4504.1163                                                0.001657000000023      mA
-0.725              0.725       Delta : LC->LC FI 10V Range 2A : 950.00
4504.1164                        Exp= 950.00166   Act= 949.96274        mA
LC->LC MI 10V Range 2A
4504.1165                                                -0.038921581966179      mA
-0.725              0.725       Delta : LC->LC MI 10V Range 2A : 950.00
4504.1166                                                -200.00080      mA
-200.13             -199.88      LC->LC FI 10V Range 200mA
4504.1167                                                -0.000799999999998      mA
-0.125              0.125       Delta : LC->LC FI 10V Range 200mA : -200.00
4504.1168                        Exp= -200.00080  Act= -200.00497       mA
LC->LC MI 10V Range 200mA
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4504.1169                                                -0.004173096493076      mA
-0.125                0.125       Delta : LC->LC MI 10V Range 200mA : -200.00
4504.1170                                                   -100.00004           mA
-100.08              -99.925       LC->LC FI 10V Range 200mA
4504.1171                                                -0.000034999999997      mA
-0.075                0.075       Delta : LC->LC FI 10V Range 200mA : -100.00
4504.1172                        Exp= -100.00003  Act= -100.00507                 mA
LC->LC MI 10V Range 200mA
4504.1173                                                -0.005032611180070      mA
-0.075                0.075       Delta : LC->LC MI 10V Range 200mA : -100.00
4504.1174                                                    0.00127             mA
-0.025                0.025       LC->LC FI 10V Range 200mA
4504.1175                                                0.001265770830000       mA
-0.025                0.025       Delta : LC->LC FI 10V Range 200mA : 0.00
4504.1176                        Exp= 0.00127     Act= -0.00388                  mA
LC->LC MI 10V Range 200mA
4504.1177                                                -0.005148946101556      mA
-0.025                0.025       Delta : LC->LC MI 10V Range 200mA : 0.00
4504.1178                                                   99.99988             mA
99.925               100.08       LC->LC FI 10V Range 200mA
4504.1179                                                -0.000117700000004      mA
-0.075                0.075       Delta : LC->LC FI 10V Range 200mA : 100.00
4504.1180                        Exp= 99.99988    Act= 99.99400                  mA
LC->LC MI 10V Range 200mA
4504.1181                                                -0.005884375571441      mA
-0.075                0.075       Delta : LC->LC MI 10V Range 200mA : 100.00
4504.1182                                                  199.99903             mA
199.88               200.13       LC->LC FI 10V Range 200mA
4504.1183                                                -0.000973000000016      mA
-0.125                0.125       Delta : LC->LC FI 10V Range 200mA : 200.00
4504.1184                        Exp= 199.99903   Act= 199.99312                 mA
LC->LC MI 10V Range 200mA
4504.1185                                                -0.005905108627530      mA
-0.125                0.125       Delta : LC->LC MI 10V Range 200mA : 200.00
4504.1186                                                  -20.00012             mA
-20.013              -19.988       LC->LC FI 10V Range 20mA
4504.1187                                                -0.000123400000000      mA
-0.0125               0.0125       Delta : LC->LC FI 10V Range 20mA : -20.00
4504.1188                        Exp= -20.00012   Act= -20.00054                 mA
LC->LC MI 10V Range 20mA
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4504.1189                                          -0.000414734997811      mA
-0.0125              0.0125        Delta : LC->LC MI 10V Range 20mA : -20.00
4504.1190                                                -10.00004      mA
-10.008              -9.9925       LC->LC FI 10V Range 20mA
4504.1191                                          -0.000041700000001      mA
-0.0075              0.0075        Delta : LC->LC FI 10V Range 20mA : -10.00
4504.1192                          Exp= -10.00004    Act= -10.00048          mA
LC->LC MI 10V Range 20mA
4504.1193                                          -0.000435377857961      mA
-0.0075              0.0075        Delta : LC->LC MI 10V Range 20mA : -10.00
4504.1194                                                 0.00017      mA
-0.0025              0.0025        LC->LC FI 10V Range 20mA
4504.1195                                          0.000167030596000      mA
-0.0025              0.0025        Delta : LC->LC FI 10V Range 20mA : 0.00
4504.1196                          Exp= 0.00017      Act= -0.00045           mA
LC->LC MI 10V Range 20mA
4504.1197                                          -0.000612313887168      mA
-0.0025              0.0025        Delta : LC->LC MI 10V Range 20mA : 0.00
4504.1198                                                10.00017      mA
9.9925               10.008        LC->LC FI 10V Range 20mA
4504.1199                                           0.000168300000000      mA
-0.0075              0.0075        Delta : LC->LC FI 10V Range 20mA : 10.00
4504.1200                          Exp= 10.00017     Act= 9.99947            mA
LC->LC MI 10V Range 20mA
4504.1201                                          -0.000699195549041      mA
-0.0075              0.0075        Delta : LC->LC MI 10V Range 20mA : 10.00
4504.1202                                                20.00025      mA
19.988               20.013        LC->LC FI 10V Range 20mA
4504.1203                                           0.000250099999999      mA
-0.0125              0.0125        Delta : LC->LC FI 10V Range 20mA : 20.00
4504.1204                          Exp= 20.00025     Act= 19.99950           mA
LC->LC MI 10V Range 20mA
4504.1205                                          -0.000752801261026      mA
-0.0125              0.0125        Delta : LC->LC MI 10V Range 20mA : 20.00
4504.1206                                                -2.00002      mA
-2.0013              -1.9988       LC->LC FI 10V Range 2mA
4504.1207                                          -0.000020000000000      mA
-0.00125             0.00125        Delta : LC->LC FI 10V Range 2mA : -2.00
4504.1208                          Exp= -2.00002     Act= -2.00004           mA
LC->LC MI 10V Range 2mA
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4504.1209                                                -0.000024141875124      mA
-0.00125              0.00125       Delta : LC->LC MI 10V Range 2mA : -2.00
4504.1210                                                      -1.00001      mA
-1.0008              -0.99925       LC->LC FI 10V Range 2mA
4504.1211                                                -0.000005340000000      mA
-0.00075              0.00075       Delta : LC->LC FI 10V Range 2mA : -1.00
4504.1212                    Exp= -1.00001     Act= -1.00005          mA
LC->LC MI 10V Range 2mA
4504.1213                                                -0.000045164199063      mA
-0.00075              0.00075       Delta : LC->LC MI 10V Range 2mA : -1.00
4504.1214                                                       0.00002      mA
-0.00025              0.00025       LC->LC FI 10V Range 2mA
4504.1215                                                0.000022345932200      mA
-0.00025              0.00025       Delta : LC->LC FI 10V Range 2mA : 0.00
4504.1216                    Exp= 0.00002      Act= -0.00004          mA
LC->LC MI 10V Range 2mA
4504.1217                                                -0.000065116034119      mA
-0.00025              0.00025       Delta : LC->LC MI 10V Range 2mA : 0.00
4504.1218                                                       1.00001      mA
0.99925               1.0008        LC->LC FI 10V Range 2mA
4504.1219                                                0.000007030000000      mA
-0.00075              0.00075       Delta : LC->LC FI 10V Range 2mA : 1.00
4504.1220                    Exp= 1.00001      Act= 0.99996           mA
LC->LC MI 10V Range 2mA
4504.1221                                                -0.000050522371831      mA
-0.00075              0.00075       Delta : LC->LC MI 10V Range 2mA : 1.00
4504.1222                                                       2.00002      mA
1.9988                2.0013        LC->LC FI 10V Range 2mA
4504.1223                                                0.000020700000000      mA
-0.00125              0.00125       Delta : LC->LC FI 10V Range 2mA : 2.00
4504.1224                    Exp= 2.00002      Act= 1.99996           mA
LC->LC MI 10V Range 2mA
4504.1225                                                -0.000063460986532      mA
-0.00125              0.00125       Delta : LC->LC MI 10V Range 2mA : 2.00
4504.1226                                                     -200.00251      uA
-200.12               -199.88       LC->LC FI 10V Range 200uA
4504.1227                                                -0.002504999999985      uA
-0.12                 0.12        Delta : LC->LC FI 10V Range 200uA : -200.00
4504.1228                    Exp= -200.00250  Act= -200.00504        uA
LC->LC MI 10V Range 200uA
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4504.1229                                                -0.002534809028248      uA
-0.125              0.125       Delta : LC->LC MI 10V Range 200uA : -200.00
4504.1230                                                      -99.99834      uA
-100.07             -99.93       LC->LC FI 10V Range 200uA
4504.1231                                                 0.001661400000003     uA
-0.07               0.07       Delta : LC->LC FI 10V Range 200uA : -100.00
4504.1232                             Exp= -99.99834    Act= -100.00468        uA
LC->LC MI 10V Range 200uA
4504.1233                                                -0.006343371312454     uA
-0.075              0.075       Delta : LC->LC MI 10V Range 200uA : -100.00
4504.1234                                                       0.00034      uA
-0.02               0.02       LC->LC FI 10V Range 200uA
4504.1235                                                 0.000342139539000     uA
-0.02               0.02       Delta : LC->LC FI 10V Range 200uA : 0.00
4504.1236                             Exp= 0.00034      Act= -0.00363         uA
LC->LC MI 10V Range 200uA
4504.1237                                                -0.003970979680962     uA
-0.025              0.025       Delta : LC->LC MI 10V Range 200uA : 0.00
4504.1238                                                      99.99885      uA
99.93               100.07       LC->LC FI 10V Range 200uA
4504.1239                                                -0.001152100000013     uA
-0.07               0.07       Delta : LC->LC FI 10V Range 200uA : 100.00
4504.1240                             Exp= 99.99885     Act= 99.99429         uA
LC->LC MI 10V Range 200uA
4504.1241                                                -0.004560654776725     uA
-0.075              0.075       Delta : LC->LC MI 10V Range 200uA : 100.00
4504.1242                                                     200.00330      uA
199.88              200.12       LC->LC FI 10V Range 200uA
4504.1243                                                 0.003298000000001     uA
-0.12               0.12       Delta : LC->LC FI 10V Range 200uA : 200.00
4504.1244                             Exp= 200.00330    Act= 199.99512         uA
LC->LC MI 10V Range 200uA
4504.1245                                                -0.008180307968786     uA
-0.125              0.125       Delta : LC->LC MI 10V Range 200uA : 200.00
4504.1246                                                     -20.00031      uA
-20.027             -19.973       LC->LC FI 10V Range 20uA
4504.1247                                                -0.000313299999998     uA
-0.027              0.027       Delta : LC->LC FI 10V Range 20uA : -20.00
4504.1248                             Exp= -20.00031    Act= -20.00070         uA
LC->LC MI 10V Range 20uA
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4504.1249                                                -0.000387685421288      uA
-0.025                0.025       Delta : LC->LC MI 10V Range 20uA : -20.00
4504.1250                                                     -0.00009      uA
-0.007                0.007       LC->LC FI 10V Range 20uA
4504.1251                                                -0.000092350007800      uA
-0.007                0.007       Delta : LC->LC FI 10V Range 20uA : 0.00
4504.1252                              Exp= -0.00009     Act= -0.00040          uA
LC->LC MI 10V Range 20uA
4504.1253                                                -0.000310028684309      uA
-0.015                0.015       Delta : LC->LC MI 10V Range 20uA : 0.00
4504.1254                                                     19.99991      uA
19.973               20.027       LC->LC FI 10V Range 20uA
4504.1255                                                -0.000087799999999      uA
-0.027                0.027       Delta : LC->LC FI 10V Range 20uA : 20.00
4504.1256                              Exp= 19.99991     Act= 19.99953          uA
LC->LC MI 10V Range 20uA
4504.1257                                                -0.000379947331282      uA
-0.025                0.025       Delta : LC->LC MI 10V Range 20uA : 20.00
4504.1258                                                     -2.00010      uA
-2.007               -1.993       LC->LC FI 10V Range 2uA
4504.1259                                                -0.000099470000000      uA
-0.007                0.007       Delta : LC->LC FI 10V Range 2uA : -2.00
4504.1260                              Exp= -2.00010     Act= -2.00005          uA
LC->LC MI 10V Range 2uA
4504.1261                                                 0.000051640213957      uA
-0.013                0.013       Delta : LC->LC MI 10V Range 2uA : -2.00
4504.1262                                                      0.00028      uA
-0.005                0.005       LC->LC FI 10V Range 2uA
4504.1263                                                 0.000279559556000      uA
-0.005                0.005       Delta : LC->LC FI 10V Range 2uA : 0.00
4504.1264                              Exp= 0.00028      Act= -0.00003          uA
LC->LC MI 10V Range 2uA
4504.1265                                                -0.000313341363402      uA
-0.012                0.012       Delta : LC->LC MI 10V Range 2uA : 0.00
4504.1266                                                      1.99987      uA
1.993                 2.007       LC->LC FI 10V Range 2uA
4504.1267                                                -0.000133360000000      uA
-0.007                0.007       Delta : LC->LC FI 10V Range 2uA : 2.00
4504.1268                              Exp= 1.99987      Act= 1.99995           uA
LC->LC MI 10V Range 2uA
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4504.1269                                                    0.000082477205335     uA
-0.013                0.013       Delta : LC->LC MI 10V Range 2uA : 2.00
4504.1270                              Chk RSense100A =   2.00370 mOhms
4504.1271                                                                  0 status
0
4504.1272                                                          -29.99625     mA
-60.15                 0.15       HC->HC FI 10V Range 100A
4504.1273                                                    0.003750988158806     mA
-30.15                30.15       Delta : HC->HC FI 10V Range 100A : -30.00
4504.1274                             Exp= -29.99625   Act= -30.00254        mA
HC->HC MI 10V Range 100A
4504.1275                                                   -0.006289127217840     mA
-30.15                30.15       Delta : HC->HC MI 10V Range 100A : -30.00
4504.1276                                                          -14.99720     mA
-45.075               15.075       HC->HC FI 10V Range 100A
4504.1277                                                    0.002797475330730     mA
-30.075               30.075       Delta : HC->HC FI 10V Range 100A : -15.00
4504.1278                             Exp= -14.99720   Act= -15.00287        mA
HC->HC MI 10V Range 100A
4504.1279                                                   -0.005670505600149     mA
-30.075               30.075       Delta : HC->HC MI 10V Range 100A : -15.00
4504.1280                                                           0.00000     mA
-30                   30       HC->HC FI 10V Range 100A
4504.1281                                                    0.000000000000000     mA
-30                   30       Delta : HC->HC FI 10V Range 100A : 0.00
4504.1282                             Exp= 0.00000     Act= -0.00229         mA
HC->HC MI 10V Range 100A
4504.1283                                                   -0.002285378877998     mA
-30                   30       Delta : HC->HC MI 10V Range 100A : 0.00
4504.1284                                                          14.99567     mA
-15.075               45.075       HC->HC FI 10V Range 100A
4504.1285                                                   -0.004332048685452     mA
-30.075               30.075       Delta : HC->HC FI 10V Range 100A : 15.00
4504.1286                             Exp= 14.99567    Act= 14.99812         mA
HC->HC MI 10V Range 100A
4504.1287                                                    0.002456000201265     mA
-30.075               30.075       Delta : HC->HC MI 10V Range 100A : 15.00
4504.1288                                                          29.99318     mA
-0.15                 60.15       HC->HC FI 10V Range 100A
4504.1289                                                   -0.006821549145215     mA
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-30.15                30.15       Delta : HC->HC FI 10V Range 100A : 30.00
4504.1290                                 Exp= 29.99318    Act= 29.99802        mA
HC->HC MI 10V Range 100A
4504.1291                                                  0.004840028346401    mA
-30.15                30.15       Delta : HC->HC MI 10V Range 100A : 30.00
4504.1292                                                      -950.06561       mA
-957.75              -942.25       HC->HC FI 75V Range 10A
4504.1293                                                  -0.065612999999985   mA
-7.75                 7.75       Delta : HC->HC FI 75V Range 10A : -950.00
4504.1294                                 Exp= -950.06561  Act= -950.25295      mA
HC->HC MI 75V Range 10A
4504.1295                                                  -0.187338722481513   mA
-7.75                 7.75       Delta : HC->HC MI 75V Range 10A : -950.00
4504.1296                                                      -475.11306       mA
-480.38              -469.63       HC->HC FI 75V Range 10A
4504.1297                                                  -0.113057999999967   mA
-5.375                5.375       Delta : HC->HC FI 75V Range 10A : -475.00
4504.1298                                 Exp= -475.11306  Act= -475.15393      mA
HC->HC MI 75V Range 10A
4504.1299                                                  -0.040871237734734   mA
-5.375                5.375       Delta : HC->HC MI 75V Range 10A : -475.00
4504.1300                                                       -0.06191        mA
-3                    3       HC->HC FI 75V Range 10A
4504.1301                                                  -0.061907697800000   mA
-3                    3       Delta : HC->HC FI 75V Range 10A : 0.00
4504.1302                                 Exp= -0.06191    Act= -0.23867        mA
HC->HC MI 75V Range 10A
4504.1303                                                  -0.176763815571809   mA
-3                    3       Delta : HC->HC MI 75V Range 10A : 0.00
4504.1304                                                       475.21503       mA
469.63               480.38       HC->HC FI 75V Range 10A
4504.1305                                                   0.215029999999956   mA
-5.375                5.375       Delta : HC->HC FI 75V Range 10A : 475.00
4504.1306                                 Exp= 475.21503   Act= 474.75935       mA
HC->HC MI 75V Range 10A
4504.1307                                                  -0.455677044428626   mA
-5.375                5.375       Delta : HC->HC MI 75V Range 10A : 475.00
4504.1308                                                       949.92627       mA
942.25               957.75       HC->HC FI 75V Range 10A
4504.1309                                                  -0.073731000000066   mA
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-7.75 7.75 Delta : HC->HC FI 75V Range 10A : 950.00
4504.1310 Exp= 949.92627 Act= 949.75286 mA
HC->HC MI 75V Range 10A
4504.1311 -0.173409058620450 mA
-7.75 7.75 Delta : HC->HC MI 75V Range 10A : 950.00
4504.1312 -950.06561 mA
-954.62 -945.39 HC->HC V/I Mode Current Force/Measure with
booster check 75V Range 10A
4504.1313 -0.065612999999985 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 75V Range 10A : -950.00
4504.1314 Exp= -950.06561 Act= -950.25295 mA
HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A
4504.1315 -0.187338722481513 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 75V Range 10A : -950.00
4504.1316 -475.11306 mA
-478.81 -471.19 HC->HC V/I Mode Current Force/Measure with
booster check 75V Range 10A
4504.1317 -0.113057999999967 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 75V Range 10A : -475.00
4504.1318 Exp= -475.11306 Act= -475.15393 mA
HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A
4504.1319 -0.040871237734734 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 75V Range 10A : -475.00
4504.1320 -0.06191 mA
-3 3 HC->HC V/I Mode Current Force/Measure with booster
check 75V Range 10A
4504.1321 -0.061907697800000 mA
-3 3 Delta : HC->HC V/I Mode Current Force/Measure with
booster check 75V Range 10A : 0.00
4504.1322 Exp= -0.06191 Act= -0.23867 mA
HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A
4504.1323 -0.176763815571809 mA
-3 3 Delta : HC->HC V/I Mode Current Force/Measure with
booster check 75V Range 10A : 0.00
4504.1324 475.21503 mA
471.19 478.81 HC->HC V/I Mode Current Force/Measure with

booster check 75V Range 10A
4504.1325 0.215029999999956 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A : 475.00
4504.1326 Exp= 475.21503 Act= 474.75935 mA HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A
4504.1327 -0.455677044428626 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A : 475.00
4504.1328 949.92627 mA
945.39 954.62 HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A
4504.1329 -0.073731000000066 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A : 950.00
4504.1330 Exp= 949.92627 Act= 949.75286 mA HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A
4504.1331 -0.173409058620450 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A : 950.00
4504.1332 -950.03313 mA
-953.15 -946.85 HC->HC FI 75V Range 4A
4504.1333 -0.033127999999920 mA
-3.15 3.15 Delta : HC->HC FI 75V Range 4A : -950.00
4504.1334 Exp= -950.03313 Act= -950.10097 mA HC->HC MI 75V Range 4A
4504.1335 -0.067838028391861 mA
-3.15 3.15 Delta : HC->HC MI 75V Range 4A : -950.00
4504.1336 -475.03244 mA
-477.2 -472.8 HC->HC FI 75V Range 4A
4504.1337 -0.032436999999959 mA
-2.2 2.2 Delta : HC->HC FI 75V Range 4A : -475.00
4504.1338 Exp= -475.03244 Act= -475.07730 mA HC->HC MI 75V Range 4A
4504.1339 -0.044862839066127 mA
-2.2 2.2 Delta : HC->HC MI 75V Range 4A : -475.00
4504.1340 -0.00138 mA
-1.25 1.25 HC->HC FI 75V Range 4A
4504.1341 -0.001380840690000 mA
-1.25 1.25 Delta : HC->HC FI 75V Range 4A : 0.00

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4504.1342                                   Exp= -0.00138     Act= -0.09462         mA
HC->HC MI 75V Range 4A
4504.1343                                                  -0.093234655259984     mA
-1.25                 1.25       Delta : HC->HC MI 75V Range 4A : 0.00
4504.1344                                                        475.10951     mA
472.8                 477.2       HC->HC FI 75V Range 4A
4504.1345                                                  0.109511999999995     mA
-2.2                  2.2       Delta : HC->HC FI 75V Range 4A : 475.00
4504.1346                                   Exp= 475.10951    Act= 474.89260         mA
HC->HC MI 75V Range 4A
4504.1347                                                  -0.216911506377983     mA
-2.2                  2.2       Delta : HC->HC MI 75V Range 4A : 475.00
4504.1348                                                        950.01868     mA
946.85                953.15       HC->HC FI 75V Range 4A
4504.1349                                                  0.018680000000018     mA
-3.15                 3.15       Delta : HC->HC FI 75V Range 4A : 950.00
4504.1350                                   Exp= 950.01868    Act= 949.92382         mA
HC->HC MI 75V Range 4A
4504.1351                                                  -0.094860572959192     mA
-3.15                 3.15       Delta : HC->HC MI 75V Range 4A : 950.00
4504.1352                                                       -950.06548     mA
-957.75               -942.25       HC->HC FI 30V Range 10A
4504.1353                                                  -0.065481999999975     mA
-7.75                 7.75       Delta : HC->HC FI 30V Range 10A : -950.00
4504.1354                                   Exp= -950.06548  Act= -950.27583         mA
HC->HC MI 30V Range 10A
4504.1355                                                  -0.210351208812426     mA
-7.75                 7.75       Delta : HC->HC MI 30V Range 10A : -950.00
4504.1356                                                       -475.08342     mA
-480.38               -469.63       HC->HC FI 30V Range 10A
4504.1357                                                  -0.083422999999982     mA
-5.375                5.375       Delta : HC->HC FI 30V Range 10A : -475.00
4504.1358                                   Exp= -475.08342  Act= -475.16518         mA
HC->HC MI 30V Range 10A
4504.1359                                                  -0.081759482777159     mA
-5.375                5.375       Delta : HC->HC MI 30V Range 10A : -475.00
4504.1360                                                        -0.03013     mA
-3                    3       HC->HC FI 30V Range 10A
4504.1361                                                  -0.030133015000000     mA
-3                    3       Delta : HC->HC FI 30V Range 10A : 0.00
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4504.1362 Exp= -0.03013 Act= -0.22443 mA
HC->HC MI 30V Range 10A
4504.1363 -0.194293629667983 mA
-3 3 Delta : HC->HC MI 30V Range 10A : 0.00
4504.1364 475.17202 mA
469.63 480.38 HC->HC FI 30V Range 10A
4504.1365 0.172018999999978 mA
-5.375 5.375 Delta : HC->HC FI 30V Range 10A : 475.00
4504.1366 Exp= 475.17202 Act= 474.71197 mA
HC->HC MI 30V Range 10A
4504.1367 -0.460046085736394 mA
-5.375 5.375 Delta : HC->HC MI 30V Range 10A : 475.00
4504.1368 949.86947 mA
942.25 957.75 HC->HC FI 30V Range 10A
4504.1369 -0.130534000000011 mA
-7.75 7.75 Delta : HC->HC FI 30V Range 10A : 950.00
4504.1370 Exp= 949.86947 Act= 949.73050 mA
HC->HC MI 30V Range 10A
4504.1371 -0.138969597123491 mA
-7.75 7.75 Delta : HC->HC MI 30V Range 10A : 950.00
4504.1372 -950.06548 mA
-954.62 -945.39 HC->HC V/I Mode Current Force/Measure with
booster check 30V Range 10A
4504.1373 -0.065481999999975 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 30V Range 10A : -950.00
4504.1374 Exp= -950.06548 Act= -950.27583 mA
HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.1375 -0.210351208812426 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 30V Range 10A : -950.00
4504.1376 -475.08342 mA
-478.81 -471.19 HC->HC V/I Mode Current Force/Measure with
booster check 30V Range 10A
4504.1377 -0.083422999999982 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 30V Range 10A : -475.00
4504.1378 Exp= -475.08342 Act= -475.16518 mA
HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.1379 -0.081759482777159 mA

-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A : -475.00
4504.1380 -0.03013 mA
-3 3 HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.1381 -0.030133015000000 mA
-3 3 Delta : HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A : 0.00
4504.1382 Exp= -0.03013 Act= -0.22443 mA HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.1383 -0.194293629667983 mA
-3 3 Delta : HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A : 0.00
4504.1384 475.17202 mA
471.19 478.81 HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.1385 0.172018999999978 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A : 475.00
4504.1386 Exp= 475.17202 Act= 474.71197 mA HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.1387 -0.460046085736394 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A : 475.00
4504.1388 949.86947 mA
945.39 954.62 HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.1389 -0.130534000000011 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A : 950.00
4504.1390 Exp= 949.86947 Act= 949.73050 mA HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.1391 -0.138969597123491 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A : 950.00
4504.1392 -950.01049 mA
-953.15 -946.85 HC->HC FI 30V Range 4A
4504.1393 -0.010490000000004 mA
-3.15 3.15 Delta : HC->HC FI 30V Range 4A : -950.00
4504.1394 Exp= -950.01049 Act= -950.07436 mA

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HC->HC MI 30V Range 4A
4504.1395                                                -0.063866518709006      mA
-3.15                3.15       Delta : HC->HC MI 30V Range 4A : -950.00
4504.1396                                                      -475.04641        mA
-477.2              -472.8       HC->HC FI 30V Range 4A
4504.1397                                                -0.046407999999985      mA
-2.2                 2.2       Delta : HC->HC FI 30V Range 4A : -475.00
4504.1398                          Exp= -475.04641  Act= -475.08992              mA
HC->HC MI 30V Range 4A
4504.1399                                                -0.043516413741202      mA
-2.2                 2.2       Delta : HC->HC MI 30V Range 4A : -475.00
4504.1400                                                       0.00560          mA
-1.25                1.25       HC->HC FI 30V Range 4A
4504.1401                                                0.005600077020000       mA
-1.25                1.25       Delta : HC->HC FI 30V Range 4A : 0.00
4504.1402                          Exp= 0.00560     Act= -0.08415               mA
HC->HC MI 30V Range 4A
4504.1403                                                -0.089748017720350      mA
-1.25                1.25       Delta : HC->HC MI 30V Range 4A : 0.00
4504.1404                                                      475.10739         mA
472.8               477.2       HC->HC FI 30V Range 4A
4504.1405                                                0.107390000000009       mA
-2.2                 2.2       Delta : HC->HC FI 30V Range 4A : 475.00
4504.1406                          Exp= 475.10739   Act= 474.89569              mA
HC->HC MI 30V Range 4A
4504.1407                                                -0.211703084240696      mA
-2.2                 2.2       Delta : HC->HC MI 30V Range 4A : 475.00
4504.1408                                                      950.01067         mA
946.85              953.15       HC->HC FI 30V Range 4A
4504.1409                                                0.010669000000007       mA
-3.15                3.15       Delta : HC->HC FI 30V Range 4A : 950.00
4504.1410                          Exp= 950.01067   Act= 949.91256              mA
HC->HC MI 30V Range 4A
4504.1411                                                -0.098106539801734      mA
-3.15                3.15       Delta : HC->HC MI 30V Range 4A : 950.00
4504.1412                                                     -950.33195         mA
-957.75             -942.25       HC->HC FI 10V Range 10A
4504.1413                                                -0.331950000000006      mA
-7.75                7.75       Delta : HC->HC FI 10V Range 10A : -950.00
4504.1414                          Exp= -950.33195  Act= -950.25350              mA
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HC->HC MI 10V Range 10A
4504.1415 0.078454674275690 mA
-7.75 7.75 Delta : HC->HC MI 10V Range 10A : -950.00
4504.1416 -474.68063 mA
-480.38 -469.63 HC->HC FI 10V Range 10A
4504.1417 0.319367999999997 mA
-5.375 5.375 Delta : HC->HC FI 10V Range 10A : -475.00
4504.1418 Exp= -474.68063 Act= -475.20947 mA
HC->HC MI 10V Range 10A
4504.1419 -0.528838727568314 mA
-5.375 5.375 Delta : HC->HC MI 10V Range 10A : -475.00
4504.1420 0.00268 mA
-3 3 HC->HC FI 10V Range 10A
4504.1421 0.002684968290000 mA
-3 3 Delta : HC->HC FI 10V Range 10A : 0.00
4504.1422 Exp= 0.00268 Act= -0.21011 mA
HC->HC MI 10V Range 10A
4504.1423 -0.212794095089216 mA
-3 3 Delta : HC->HC MI 10V Range 10A : 0.00
4504.1424 474.74286 mA
469.63 480.38 HC->HC FI 10V Range 10A
4504.1425 -0.257139999999993 mA
-5.375 5.375 Delta : HC->HC FI 10V Range 10A : 475.00
4504.1426 Exp= 474.74286 Act= 474.73250 mA
HC->HC MI 10V Range 10A
4504.1427 -0.010363392745830 mA
-5.375 5.375 Delta : HC->HC MI 10V Range 10A : 475.00
4504.1428 950.18303 mA
942.25 957.75 HC->HC FI 10V Range 10A
4504.1429 0.183034000000021 mA
-7.75 7.75 Delta : HC->HC FI 10V Range 10A : 950.00
4504.1430 Exp= 950.18303 Act= 949.74282 mA
HC->HC MI 10V Range 10A
4504.1431 -0.440211590452236 mA
-7.75 7.75 Delta : HC->HC MI 10V Range 10A : 950.00
4504.1432 -950.33195 mA
-954.62 -945.39 HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.1433 -0.331950000000006 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure

with booster check 10V Range 10A : -950.00
4504.1434 Exp= -950.33195 Act= -950.25350 mA
HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.1435 0.078454674275690 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 10V Range 10A : -950.00
4504.1436 -474.68063 mA
-478.81 -471.19 HC->HC V/I Mode Current Force/Measure with
booster check 10V Range 10A
4504.1437 0.319367999999997 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 10V Range 10A : -475.00
4504.1438 Exp= -474.68063 Act= -475.20947 mA
HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.1439 -0.528838727568314 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 10V Range 10A : -475.00
4504.1440 0.00268 mA
-3 3 HC->HC V/I Mode Current Force/Measure with booster
check 10V Range 10A
4504.1441 0.002684968290000 mA
-3 3 Delta : HC->HC V/I Mode Current Force/Measure with
booster check 10V Range 10A : 0.00
4504.1442 Exp= 0.00268 Act= -0.21011 mA
HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.1443 -0.212794095089216 mA
-3 3 Delta : HC->HC V/I Mode Current Force/Measure with
booster check 10V Range 10A : 0.00
4504.1444 474.74286 mA
471.19 478.81 HC->HC V/I Mode Current Force/Measure with
booster check 10V Range 10A
4504.1445 -0.257139999999993 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 10V Range 10A : 475.00
4504.1446 Exp= 474.74286 Act= 474.73250 mA
HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.1447 -0.010363392745830 mA
-3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure
with booster check 10V Range 10A : 475.00
4504.1448 950.18303 mA

945.39 954.62 HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.1449 0.183034000000021 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A : 950.00
4504.1450 Exp= 950.18303 Act= 949.74282 mA HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.1451 -0.440211590452236 mA
-4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A : 950.00
4504.1452 -950.03268 mA
-953.15 -946.85 HC->HC FI 10V Range 4A
4504.1453 -0.032675000000040 mA
-3.15 3.15 Delta : HC->HC FI 10V Range 4A : -950.00
4504.1454 Exp= -950.03268 Act= -950.10323 mA HC->HC MI 10V Range 4A
4504.1455 -0.070550574335243 mA
-3.15 3.15 Delta : HC->HC MI 10V Range 4A : -950.00
4504.1456 -474.97639 mA
-477.2 -472.8 HC->HC FI 10V Range 4A
4504.1457 0.023615000000007 mA
-2.2 2.2 Delta : HC->HC FI 10V Range 4A : -475.00
4504.1458 Exp= -474.97638 Act= -475.07387 mA HC->HC MI 10V Range 4A
4504.1459 -0.097485905629867 mA
-2.2 2.2 Delta : HC->HC MI 10V Range 4A : -475.00
4504.1460 -0.01217 mA
-1.25 1.25 HC->HC FI 10V Range 4A
4504.1461 -0.012166741900000 mA
-1.25 1.25 Delta : HC->HC FI 10V Range 4A : 0.00
4504.1462 Exp= -0.01217 Act= -0.08354 mA HC->HC MI 10V Range 4A
4504.1463 -0.071377105289867 mA
-1.25 1.25 Delta : HC->HC MI 10V Range 4A : 0.00
4504.1464 474.97612 mA
472.8 477.2 HC->HC FI 10V Range 4A
4504.1465 -0.023884000000010 mA
-2.2 2.2 Delta : HC->HC FI 10V Range 4A : 475.00
4504.1466 Exp= 474.97612 Act= 474.87518 mA HC->HC MI 10V Range 4A

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4504.1467                                                -0.100935954638203     mA
-2.2                  2.2       Delta : HC->HC MI 10V Range 4A : 475.00
4504.1468                                                 950.06840     mA
946.85               953.15       HC->HC FI 10V Range 4A
4504.1469                                                0.068401999999992     mA
-3.15                 3.15       Delta : HC->HC FI 10V Range 4A : 950.00
4504.1470                        Exp= 950.06840   Act= 949.91551       mA
HC->HC MI 10V Range 4A
4504.1471                                                -0.152894876986124     mA
-3.15                 3.15       Delta : HC->HC MI 10V Range 4A : 950.00
   4505.0                                                HC relays verified
DIB HC Relays Check
   4505.1                                                              0 status
0       DIB HC Relays Check
   4505.2                        Exp= -9.49991    Act= -9.49976         V
LC->LC MV PGA 100V Range 10X
   4505.3                                                0.000152818788068      V
-0.008375             0.008375       Delta : LC->LC MV PGA 100V Range 10X : -9.50
   4505.4                        Exp= -0.00002    Act= 0.00010          V
LC->LC MV PGA 100V Range 10X
   4505.5                                                0.000121770162846      V
-0.006                0.006       Delta : LC->LC MV PGA 100V Range 10X : 0.00
   4505.6                        Exp= 9.50010     Act= 9.50025          V
LC->LC MV PGA 100V Range 10X
   4505.7                                                0.000151312540213      V
-0.008375             0.008375       Delta : LC->LC MV PGA 100V Range 10X : 9.50
   4505.8                        Exp= -0.94965    Act= -0.94957         V
LC->LC MV PGA 100V Range 100X
   4505.9                                                0.000081050064109      V
-0.0062375            0.0062375       Delta : LC->LC MV PGA 100V Range 100X : -
0.95
  4505.10                        Exp= -0.00005    Act= 0.00008          V
LC->LC MV PGA 100V Range 100X
  4505.11                                                0.000133751538458      V
-0.006                0.006       Delta : LC->LC MV PGA 100V Range 100X : 0.00
  4505.12                        Exp= 0.94962     Act= 0.94974          V
LC->LC MV PGA 100V Range 100X
  4505.13                                                0.000127297008548      V
-0.0062375            0.0062375       Delta : LC->LC MV PGA 100V Range 100X :
0.95
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  4505.14                                Exp= -2.84992    Act= -2.84989         V
LC->LC MV PGA 30V Range 10X
  4505.15                                                 0.000023065783019     V
-0.0027125            0.0027125       Delta : LC->LC MV PGA 30V Range 10X : -2.85
  4505.16                                Exp= 0.00009     Act= 0.00011          V
LC->LC MV PGA 30V Range 10X
  4505.17                                                 0.000022218511515     V
-0.002                0.002       Delta : LC->LC MV PGA 30V Range 10X : 0.00
  4505.18                                Exp= 2.85014     Act= 2.85017          V
LC->LC MV PGA 30V Range 10X
  4505.19                                                 0.000032756241194     V
-0.0027125            0.0027125       Delta : LC->LC MV PGA 30V Range 10X : 2.85
  4505.20                                Exp= -0.28489    Act= -0.28484         V
LC->LC MV PGA 30V Range 100X
  4505.21                                                 0.000058417439125     V
-0.00207125           0.00207125       Delta : LC->LC MV PGA 30V Range 100X : -
0.29
  4505.22                                Exp= 0.00008     Act= 0.00011          V
LC->LC MV PGA 30V Range 100X
  4505.23                                                 0.000028364905028     V
-0.002                0.002       Delta : LC->LC MV PGA 30V Range 100X : 0.00
  4505.24                                Exp= 0.28505     Act= 0.28508          V
LC->LC MV PGA 30V Range 100X
  4505.25                                                 0.000033491894025     V
-0.00207125           0.00207125       Delta : LC->LC MV PGA 30V Range 100X :
0.29
  4505.26                                Exp= -0.94995    Act= -0.94993         V
LC->LC MV PGA 10V Range 10X
  4505.27                                                 0.000013393347235     V
-0.0008375            0.0008375       Delta : LC->LC MV PGA 10V Range 10X : -0.95
  4505.28                                Exp= -0.00002    Act= -0.00000         V
LC->LC MV PGA 10V Range 10X
  4505.29                                                 0.000016035900406     V
-0.0006               0.0006       Delta : LC->LC MV PGA 10V Range 10X : 0.00
  4505.30                                Exp= 0.95002     Act= 0.95004          V
LC->LC MV PGA 10V Range 10X
  4505.31                                                 0.000018410845768     V
-0.0008375            0.0008375       Delta : LC->LC MV PGA 10V Range 10X : 0.95
  4505.32                                Exp= -0.09500    Act= -0.09499         V
LC->LC MV PGA 10V Range 100X
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  4505.33                                                0.000008918259584      V
-0.00062375           0.00062375       Delta : LC->LC MV PGA 10V Range 100X : -
0.10
  4505.34                                  Exp= -0.00001    Act= 0.00000          V
LC->LC MV PGA 10V Range 100X
  4505.35                                                0.000013777322890      V
-0.0006               0.0006       Delta : LC->LC MV PGA 10V Range 100X : 0.00
  4505.36                                  Exp= 0.09499     Act= 0.09500          V
LC->LC MV PGA 10V Range 100X
  4505.37                                                0.000012422118309      V
-0.00062375           0.00062375       Delta : LC->LC MV PGA 10V Range 100X :
0.10
  4505.38                                  Exp= -6.99966    Act= -6.99949         V
HC->HC MV PGA 75V Range 10X
  4505.39                                                0.000168720444804      V
-0.00775              0.00775       Delta : HC->HC MV PGA 75V Range 10X : -7.00
  4505.40                                  Exp= -0.00001    Act= 0.00011          V
HC->HC MV PGA 75V Range 10X
  4505.41                                                0.000122291723572      V
-0.006                0.006       Delta : HC->HC MV PGA 75V Range 10X : 0.00
  4505.42                                  Exp= 6.99987     Act= 7.00004          V
HC->HC MV PGA 75V Range 10X
  4505.43                                                0.000174794500952      V
-0.00775              0.00775       Delta : HC->HC MV PGA 75V Range 10X : 7.00
  4505.44                                  Exp= -0.69963    Act= -0.69954         V
HC->HC MV PGA 75V Range 100X
  4505.45                                                0.000080568357104      V
-0.003175             0.003175      Delta : HC->HC MV PGA 75V Range 100X : -0.70
  4505.46                                  Exp= -0.00001    Act= 0.00008          V
HC->HC MV PGA 75V Range 100X
  4505.47                                                0.000085674907085      V
-0.003                0.003       Delta : HC->HC MV PGA 75V Range 100X : 0.00
  4505.48                                  Exp= 0.69955     Act= 0.69970          V
HC->HC MV PGA 75V Range 100X
  4505.49                                                0.000147786421016      V
-0.003175             0.003175      Delta : HC->HC MV PGA 75V Range 100X : 0.70
  4505.50                                  Exp= -2.79973    Act= -2.79970         V
HC->HC MV PGA 30V Range 10X
  4505.51                                                0.000032000544378      V
-0.0027               0.0027       Delta : HC->HC MV PGA 30V Range 10X : -2.80
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  4505.52                                  Exp= 0.00006     Act= 0.00011          V
HC->HC MV PGA 30V Range 10X
  4505.53                                                   0.000045366948407     V
-0.002                0.002       Delta : HC->HC MV PGA 30V Range 10X : 0.00
  4505.54                                  Exp= 2.80016     Act= 2.80019          V
HC->HC MV PGA 30V Range 10X
  4505.55                                                   0.000033970343679     V
-0.0027               0.0027       Delta : HC->HC MV PGA 30V Range 10X : 2.80
  4505.56                                  Exp= -0.27993    Act= -0.27989         V
HC->HC MV PGA 30V Range 100X
  4505.57                                                   0.000040738271191     V
-0.00107              0.00107       Delta : HC->HC MV PGA 30V Range 100X : -0.28
  4505.58                                  Exp= 0.00007     Act= 0.00009          V
HC->HC MV PGA 30V Range 100X
  4505.59                                                   0.000023403059756     V
-0.001                0.001       Delta : HC->HC MV PGA 30V Range 100X : 0.00
  4505.60                                  Exp= 0.28027     Act= 0.28030          V
HC->HC MV PGA 30V Range 100X
  4505.61                                                   0.000036562005991     V
-0.00107              0.00107       Delta : HC->HC MV PGA 30V Range 100X : 0.28
  4505.62                                  Exp= -0.84993    Act= -0.84992         V
HC->HC MV PGA 10V Range 10X
  4505.63                                                   0.000010974772244     V
-0.0008125            0.0008125      Delta : HC->HC MV PGA 10V Range 10X : -0.85
  4505.64                                  Exp= 0.00004     Act= 0.00006          V
HC->HC MV PGA 10V Range 10X
  4505.65                                                   0.000016957282504     V
-0.0006               0.0006       Delta : HC->HC MV PGA 10V Range 10X : 0.00
  4505.66                                  Exp= 0.85005     Act= 0.85006          V
HC->HC MV PGA 10V Range 10X
  4505.67                                                   0.000014255717717     V
-0.0008125            0.0008125      Delta : HC->HC MV PGA 10V Range 10X : 0.85
  4505.68                                  Exp= -0.08494    Act= -0.08492         V
HC->HC MV PGA 10V Range 100X
  4505.69                                                   0.000025085062920     V
-0.00032125           0.00032125      Delta : HC->HC MV PGA 10V Range 100X : -
0.09
  4505.70                                  Exp= 0.00004     Act= 0.00006          V
HC->HC MV PGA 10V Range 100X
  4505.71                                                   0.000012463096927     V
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-0.0003                0.0003       Delta : HC->HC MV PGA 10V Range 100X : 0.00
  4505.72                                  Exp= 0.08504     Act= 0.08506          V
HC->HC MV PGA 10V Range 100X
  4505.73                                                   0.000019392053111      V
-0.00032125            0.00032125       Delta : HC->HC MV PGA 10V Range 100X :
0.09
   4506.0                                                HC relays verified
DIB HC Relays Check
   4506.1                                                                  0 status
0       DIB HC Relays Check
   4506.2                                  Exp= -0.79994    Act= -0.79993         V
MV Pedestal LC 0V Pedestal
   4506.3                                                   0.000013556407616      V
-0.00033               0.00033       Delta : MV Pedestal LC 0V Pedestal : -0.80
   4506.4                                  Exp= -0.39987    Act= -0.39984         V
MV Pedestal LC 0V Pedestal
   4506.5                                                   0.000023509850770      V
-0.00029               0.00029       Delta : MV Pedestal LC 0V Pedestal : -0.40
   4506.6                                  Exp= 0.00018     Act= 0.00019          V
MV Pedestal LC 0V Pedestal
   4506.7                                                   0.000006200801413      V
-0.00025               0.00025       Delta : MV Pedestal LC 0V Pedestal : 0.00
   4506.8                                  Exp= 0.40017     Act= 0.40018          V
MV Pedestal LC 0V Pedestal
   4506.9                                                   0.000009404763550      V
-0.00029               0.00029       Delta : MV Pedestal LC 0V Pedestal : 0.40
  4506.10                                  Exp= 0.80025     Act= 0.80026          V
MV Pedestal LC 0V Pedestal
  4506.11                                                   0.000001486140224      V
-0.00033               0.00033       Delta : MV Pedestal LC 0V Pedestal : 0.80
  4506.12                                  Exp= 0.30019     Act= 0.30021          V
MV Pedestal LC 1V Pedestal
  4506.13                                                   0.000019591671943      V
-0.00028               0.00028       Delta : MV Pedestal LC 1V Pedestal : 0.30
  4506.14                                  Exp= 0.60022     Act= 0.60023          V
MV Pedestal LC 1V Pedestal
  4506.15                                                   0.000009602158452      V
-0.00031               0.00031       Delta : MV Pedestal LC 1V Pedestal : 0.60
  4506.16                                  Exp= 1.00029     Act= 1.00030          V
MV Pedestal LC 1V Pedestal
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  4506.17                                                0.000012976194818      V
-0.00035              0.00035       Delta : MV Pedestal LC 1V Pedestal : 1.00
  4506.18                                Exp= 1.30026     Act= 1.30028          V
MV Pedestal LC 1V Pedestal
  4506.19                                                0.000019249572215      V
-0.00038              0.00038       Delta : MV Pedestal LC 1V Pedestal : 1.30
  4506.20                                Exp= 1.70028     Act= 1.70030          V
MV Pedestal LC 1V Pedestal
  4506.21                                                0.000011381968164      V
-0.00042              0.00042       Delta : MV Pedestal LC 1V Pedestal : 1.70
  4506.22                                Exp= 2.40040     Act= 2.40040          V
MV Pedestal LC 3V Pedestal
  4506.23                                                0.000003050055327      V
-0.00049              0.00049       Delta : MV Pedestal LC 3V Pedestal : 2.40
  4506.24                                Exp= 2.70036     Act= 2.70038          V
MV Pedestal LC 3V Pedestal
  4506.25                                                0.000012834773274      V
-0.00052              0.00052       Delta : MV Pedestal LC 3V Pedestal : 2.70
  4506.26                                Exp= 3.00039     Act= 3.00041          V
MV Pedestal LC 3V Pedestal
  4506.27                                                0.000015632535665      V
-0.00055              0.00055       Delta : MV Pedestal LC 3V Pedestal : 3.00
  4506.28                                Exp= 3.30036     Act= 3.30037          V
MV Pedestal LC 3V Pedestal
  4506.29                                                0.000015356024555      V
-0.00058              0.00058       Delta : MV Pedestal LC 3V Pedestal : 3.30
  4506.30                                Exp= 3.60038     Act= 3.60040          V
MV Pedestal LC 3V Pedestal
  4506.31                                                0.000013524478646      V
-0.00061              0.00061       Delta : MV Pedestal LC 3V Pedestal : 3.60
  4506.32                                Exp= 4.30031     Act= 4.30033          V
MV Pedestal LC 5V Pedestal
  4506.33                                                0.000017243942757      V
-0.00068              0.00068       Delta : MV Pedestal LC 5V Pedestal : 4.30
  4506.34                                Exp= 4.60034     Act= 4.60035          V
MV Pedestal LC 5V Pedestal
  4506.35                                                0.000014728212223      V
-0.00071              0.00071       Delta : MV Pedestal LC 5V Pedestal : 4.60
  4506.36                                Exp= 5.00041     Act= 5.00041          V
MV Pedestal LC 5V Pedestal
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  4506.37                                                0.000006342778101      V
-0.00075              0.00075       Delta : MV Pedestal LC 5V Pedestal : 5.00
  4506.38                          Exp= 5.30038     Act= 5.30039          V
MV Pedestal LC 5V Pedestal
  4506.39                                                0.000003537712204      V
-0.00078              0.00078       Delta : MV Pedestal LC 5V Pedestal : 5.30
  4506.40                          Exp= 5.70040     Act= 5.70041          V
MV Pedestal LC 5V Pedestal
  4506.41                                                0.000013104176471      V
-0.00082              0.00082       Delta : MV Pedestal LC 5V Pedestal : 5.70
4507.1000                                              HC relays verified
DIB HC Relays Check
4507.1001                                                                 0 status
0       DIB HC Relays Check
4507.1002                          Exp= -47.49233   Act= -47.49215        mA
LC->LC MI PGA 100V Range 500mA 10X
4507.1003                                              0.000185649756595      mA
-0.08375              0.08375       Delta : LC->LC MI PGA 100V Range 500mA 10X :
-47.50
4507.1004                          Exp= 0.00868     Act= 0.00789          mA
LC->LC MI PGA 100V Range 500mA 10X
4507.1005                                             -0.000786136471194      mA
-0.06                 0.06       Delta : LC->LC MI PGA 100V Range 500mA 10X :
0.00
4507.1006                          Exp= 47.50825    Act= 47.50769         mA
LC->LC MI PGA 100V Range 500mA 10X
4507.1007                                             -0.000558448388468      mA
-0.08375              0.08375       Delta : LC->LC MI PGA 100V Range 500mA 10X :
47.50
4507.1008                          Exp= -4.74314    Act= -4.74237         mA
LC->LC MI PGA 100V Range 500mA 100X
4507.1009                                              0.000767936203440      mA
-0.062375             0.062375       Delta : LC->LC MI PGA 100V Range 500mA
100X : -4.75
4507.1010                          Exp= 0.00928     Act= 0.00972          mA
LC->LC MI PGA 100V Range 500mA 100X
4507.1011                                              0.000436362283039      mA
-0.06                 0.06       Delta : LC->LC MI PGA 100V Range 500mA 100X :
0.00
4507.1012                          Exp= 4.75893     Act= 4.75942          mA
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LC->LC MI PGA 100V Range 500mA 100X
4507.1013 0.000486250530957 mA
-0.062375 0.062375 Delta : LC->LC MI PGA 100V Range 500mA 100X : 4.75
4507.1014 Exp= -94.99328 Act= -94.99176 mA
LC->LC MI PGA 30V Range 1A 10X
4507.1015 0.001515644180131 mA
-0.1075 0.1075 Delta : LC->LC MI PGA 30V Range 1A 10X : -95.00
4507.1016 Exp= 0.01198 Act= 0.01241 mA
LC->LC MI PGA 30V Range 1A 10X
4507.1017 0.000425860114925 mA
-0.06 0.06 Delta : LC->LC MI PGA 30V Range 1A 10X : 0.00
4507.1018 Exp= 95.00637 Act= 95.00597 mA
LC->LC MI PGA 30V Range 1A 10X
4507.1019 -0.000394685754202 mA
-0.1075 0.1075 Delta : LC->LC MI PGA 30V Range 1A 10X : 95.00
4507.1020 Exp= -9.49741 Act= -9.49573 mA
LC->LC MI PGA 30V Range 1A 100X
4507.1021 0.001679462002732 mA
-0.06475 0.06475 Delta : LC->LC MI PGA 30V Range 1A 100X : -9.50
4507.1022 Exp= 0.01259 Act= 0.01421 mA
LC->LC MI PGA 30V Range 1A 100X
4507.1023 0.001622262996918 mA
-0.06 0.06 Delta : LC->LC MI PGA 30V Range 1A 100X : 0.00
4507.1024 Exp= 9.50902 Act= 9.51077 mA
LC->LC MI PGA 30V Range 1A 100X
4507.1025 0.001754176185090 mA
-0.06475 0.06475 Delta : LC->LC MI PGA 30V Range 1A 100X : 9.50
4507.1026 Exp= -9.49845 Act= -9.49862 mA
LC->LC MI PGA 30V Range 100mA 10X
4507.1027 -0.000165728376331 mA
-0.01075 0.01075 Delta : LC->LC MI PGA 30V Range 100mA 10X : -9.50
4507.1028 Exp= 0.00060 Act= 0.00041 mA
LC->LC MI PGA 30V Range 100mA 10X
4507.1029 -0.000190900241958 mA
-0.006 0.006 Delta : LC->LC MI PGA 30V Range 100mA 10X :

0.00
4507.1030 Exp= 9.50055 Act= 9.50050 mA
LC->LC MI PGA 30V Range 100mA 10X
4507.1031 -0.000052463609659 mA
-0.01075 0.01075 Delta : LC->LC MI PGA 30V Range 100mA 10X :
9.50
4507.1032 Exp= -949.64640 Act= -949.53585 uA
LC->LC MI PGA 30V Range 100mA 100X
4507.1033 0.110551252360892 uA
-6.475 6.475 Delta : LC->LC MI PGA 30V Range 100mA 100X : -
950.00
4507.1034 Exp= 0.56172 Act= 0.68386 uA
LC->LC MI PGA 30V Range 100mA 100X
4507.1035 0.122140618689501 uA
-6 6 Delta : LC->LC MI PGA 30V Range 100mA 100X : 0.00
4507.1036 Exp= 950.36524 Act= 950.44158 uA
LC->LC MI PGA 30V Range 100mA 100X
4507.1037 0.076342045079741 uA
-6.475 6.475 Delta : LC->LC MI PGA 30V Range 100mA 100X :
950.00
4507.1038 Exp= -949.94015 Act= -949.94510 uA
LC->LC MI PGA 30V Range 10mA 10X
4507.1039 -0.004954651896924 uA
-1.075 1.075 Delta : LC->LC MI PGA 30V Range 10mA 10X : -
950.00
4507.1040 Exp= 0.13726 Act= 0.12272 uA
LC->LC MI PGA 30V Range 10mA 10X
4507.1041 -0.014540163028326 uA
-0.6 0.6 Delta : LC->LC MI PGA 30V Range 10mA 10X : 0.00
4507.1042 Exp= 950.11341 Act= 950.08746 uA
LC->LC MI PGA 30V Range 10mA 10X
4507.1043 -0.025946538447556 uA
-1.075 1.075 Delta : LC->LC MI PGA 30V Range 10mA 10X :
950.00
4507.1044 Exp= -94.89691 Act= -94.89854 uA
LC->LC MI PGA 30V Range 10mA 100X
4507.1045 -0.001624070540203 uA
-0.6475 0.6475 Delta : LC->LC MI PGA 30V Range 10mA 100X : -
95.00
4507.1046 Exp= 0.13784 Act= 0.15297 uA

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LC->LC MI PGA 30V Range 10mA 100X
4507.1047                                          0.015132792921569     uA
-0.6                0.6       Delta : LC->LC MI PGA 30V Range 10mA 100X : 0.00
4507.1048                                Exp= 95.05540    Act= 95.06142        uA
LC->LC MI PGA 30V Range 10mA 100X
4507.1049                                          0.006020691206771     uA
-0.6475             0.6475       Delta : LC->LC MI PGA 30V Range 10mA 100X :
95.00
4507.1050                                Exp= -94.99087   Act= -94.99217       uA
LC->LC MI PGA 30V Range 1mA 10X
4507.1051                                         -0.001301323253486     uA
-0.1075             0.1075       Delta : LC->LC MI PGA 30V Range 1mA 10X : -
95.00
4507.1052                                Exp= 0.01136     Act= 0.01037         uA
LC->LC MI PGA 30V Range 1mA 10X
4507.1053                                         -0.000992398958867     uA
-0.06               0.06       Delta : LC->LC MI PGA 30V Range 1mA 10X : 0.00
4507.1054                                Exp= 95.00420    Act= 95.00190        uA
LC->LC MI PGA 30V Range 1mA 10X
4507.1055                                         -0.002302917214152     uA
-0.1075             0.1075       Delta : LC->LC MI PGA 30V Range 1mA 10X :
95.00
4507.1056                                Exp= -9.49447    Act= -9.49324        uA
LC->LC MI PGA 30V Range 1mA 100X
4507.1057                                          0.001230504680832     uA
-0.0695             0.0695       Delta : LC->LC MI PGA 30V Range 1mA 100X : -
9.50
4507.1058                                Exp= 0.01182     Act= 0.01282         uA
LC->LC MI PGA 30V Range 1mA 100X
4507.1059                                          0.001004813684947     uA
-0.06               0.06       Delta : LC->LC MI PGA 30V Range 1mA 100X : 0.00
4507.1060                                Exp= 9.50514     Act= 9.50580         uA
LC->LC MI PGA 30V Range 1mA 100X
4507.1061                                          0.000659581640514     uA
-0.0695             0.0695       Delta : LC->LC MI PGA 30V Range 1mA 100X :
9.50
4507.1062                                Exp= -9.49842    Act= -9.49860        uA
LC->LC MI PGA 30V Range 100uA 10X
4507.1063                                         -0.000183367478396     uA
-0.0215             0.0215       Delta : LC->LC MI PGA 30V Range 100uA 10X : -
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9.50
4507.1064                                   Exp= 0.00097     Act= 0.00090         uA
LC->LC MI PGA 30V Range 100uA 10X
4507.1065                                                -0.000070671782307     uA
-0.012               0.012       Delta : LC->LC MI PGA 30V Range 100uA 10X :
0.00
4507.1066                                   Exp= 9.50108     Act= 9.50089         uA
LC->LC MI PGA 30V Range 100uA 10X
4507.1067                                                -0.000186204698709     uA
-0.0215              0.0215       Delta : LC->LC MI PGA 30V Range 100uA 10X :
9.50
4507.1068                                   Exp= -948.55955  Act= -948.44474      nA
LC->LC MI PGA 30V Range 100uA 100X
4507.1069                                                 0.114808036800014     nA
-12.95               12.95       Delta : LC->LC MI PGA 30V Range 100uA 100X : -
950.00
4507.1070                                   Exp= 1.13429     Act= 1.31415         nA
LC->LC MI PGA 30V Range 100uA 100X
4507.1071                                                  0.179860445010097     nA
-12                  12       Delta : LC->LC MI PGA 30V Range 100uA 100X : 0.00
4507.1072                                   Exp= 951.19407   Act= 951.32328       nA
LC->LC MI PGA 30V Range 100uA 100X
4507.1073                                                  0.129216244670374     nA
-12.95               12.95       Delta : LC->LC MI PGA 30V Range 100uA 100X :
950.00
4507.1074                                   Exp= -948.88279  Act= -948.88390      nA
LC->LC MI PGA 30V Range 10uA 10X
4507.1075                                                -0.001115227758987     nA
-8.95                8.95       Delta : LC->LC MI PGA 30V Range 10uA 10X : -
950.00
4507.1076                                   Exp= 1.04774     Act= 1.02984         nA
LC->LC MI PGA 30V Range 10uA 10X
4507.1077                                                -0.017896060595443     nA
-8                   8       Delta : LC->LC MI PGA 30V Range 10uA 10X : 0.00
4507.1078                                   Exp= 950.92184   Act= 950.91176       nA
LC->LC MI PGA 30V Range 10uA 10X
4507.1079                                                -0.010081945518436     nA
-8.95                8.95       Delta : LC->LC MI PGA 30V Range 10uA 10X :
950.00
4507.1080                                   Exp= -93.56555   Act= -93.55938       nA
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LC->LC MI PGA 30V Range 10uA 100X
4507.1081                                          0.006165871785882     nA
-8.095              8.095       Delta : LC->LC MI PGA 30V Range 10uA 100X : -
95.00
4507.1082                              Exp= 1.05099     Act= 1.06362         nA
LC->LC MI PGA 30V Range 10uA 100X
4507.1083                                          0.012627421335080     nA
-8                  8       Delta : LC->LC MI PGA 30V Range 10uA 100X : 0.00
4507.1084                              Exp= 95.74205    Act= 95.75402        nA
LC->LC MI PGA 30V Range 10uA 100X
4507.1085                                          0.011975051877272     nA
-8.095              8.095       Delta : LC->LC MI PGA 30V Range 10uA 100X :
95.00
4507.1086                              Exp= -93.78269   Act= -93.79115       nA
LC->LC MI PGA 30V Range 1uA 10X
4507.1087                                          -0.008461796213410    nA
-4.095              4.095       Delta : LC->LC MI PGA 30V Range 1uA 10X : -
95.00
4507.1088                              Exp= 0.84160     Act= 0.83908         nA
LC->LC MI PGA 30V Range 1uA 10X
4507.1089                                          -0.002521146433726    nA
-4                  4       Delta : LC->LC MI PGA 30V Range 1uA 10X : 0.00
4507.1090                              Exp= 95.57318    Act= 95.57045        nA
LC->LC MI PGA 30V Range 1uA 10X
4507.1091                                          -0.002733105487309    nA
-4.095              4.095       Delta : LC->LC MI PGA 30V Range 1uA 10X : 95.00
4507.1092                              Exp= -190.00174  Act= -190.00513      mA
LC->LC MI PGA 10V Range 2A 10X
4507.1093                                          -0.003388895054911    mA
-0.22               0.22        Delta : LC->LC MI PGA 10V Range 2A 10X : -190.00
4507.1094                              Exp= 0.00763     Act= 0.00424         mA
LC->LC MI PGA 10V Range 2A 10X
4507.1095                                          -0.003387990072260    mA
-0.125              0.125       Delta : LC->LC MI PGA 10V Range 2A 10X : 0.00
4507.1096                              Exp= 189.99906   Act= 189.99635       mA
LC->LC MI PGA 10V Range 2A 10X
4507.1097                                          -0.002707994970905    mA
-0.22               0.22        Delta : LC->LC MI PGA 10V Range 2A 10X : 190.00
4507.1098                              Exp= -18.98586   Act= -18.98432       mA
LC->LC MI PGA 10V Range 2A 100X
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4507.1099                                                0.001535137229340     mA
-0.1345              0.1345       Delta : LC->LC MI PGA 10V Range 2A 100X : -
19.00
4507.1100                              Exp= 0.01691     Act= 0.01791          mA
LC->LC MI PGA 10V Range 2A 100X
4507.1101                                                0.000995459855051     mA
-0.125               0.125       Delta : LC->LC MI PGA 10V Range 2A 100X : 0.00
4507.1102                              Exp= 19.01107    Act= 19.01221         mA
LC->LC MI PGA 10V Range 2A 100X
4507.1103                                                0.001138487091406     mA
-0.1345              0.1345       Delta : LC->LC MI PGA 10V Range 2A 100X :
19.00
4507.1104                              Exp= -18.98960   Act= -18.98971        mA
LC->LC MI PGA 10V Range 200mA 10X
4507.1105                                               -0.000114246562450     mA
-0.0215              0.0215       Delta : LC->LC MI PGA 10V Range 200mA 10X : -
19.00
4507.1106                              Exp= 0.00997     Act= 0.00962          mA
LC->LC MI PGA 10V Range 200mA 10X
4507.1107                                               -0.000347210267499     mA
-0.012               0.012       Delta : LC->LC MI PGA 10V Range 200mA 10X :
0.00
4507.1108                              Exp= 19.00968    Act= 19.00920         mA
LC->LC MI PGA 10V Range 200mA 10X
4507.1109                                               -0.000485831562074     mA
-0.0215              0.0215       Delta : LC->LC MI PGA 10V Range 200mA 10X :
19.00
4507.1110                              Exp= -1.89001    Act= -1.88988         mA
LC->LC MI PGA 10V Range 200mA 100X
4507.1111                                                0.000133314369984     mA
-0.01295             0.01295       Delta : LC->LC MI PGA 10V Range 200mA 100X :
-1.90
4507.1112                              Exp= 0.01046     Act= 0.01070          mA
LC->LC MI PGA 10V Range 200mA 100X
4507.1113                                                0.000231274665819     mA
-0.012               0.012       Delta : LC->LC MI PGA 10V Range 200mA 100X :
0.00
4507.1114                              Exp= 1.90996     Act= 1.91030          mA
LC->LC MI PGA 10V Range 200mA 100X
4507.1115                                                0.000334467716750     mA
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-0.01295 0.01295 Delta : LC->LC MI PGA 10V Range 200mA 100X : 1.90
4507.1116 Exp= -1.89938 Act= -1.89944 mA LC->LC MI PGA 10V Range 20mA 10X
4507.1117 -0.000059514127413 mA
-0.00215 0.00215 Delta : LC->LC MI PGA 10V Range 20mA 10X : -1.90
4507.1118 Exp= 0.00061 Act= 0.00057 mA LC->LC MI PGA 10V Range 20mA 10X
4507.1119 -0.000041646292965 mA
-0.0012 0.0012 Delta : LC->LC MI PGA 10V Range 20mA 10X : 0.00
4507.1120 Exp= 1.90053 Act= 1.90049 mA LC->LC MI PGA 10V Range 20mA 10X
4507.1121 -0.000039752790935 mA
-0.00215 0.00215 Delta : LC->LC MI PGA 10V Range 20mA 10X : 1.90
4507.1122 Exp= -189.42848 Act= -189.42324 uA LC->LC MI PGA 10V Range 20mA 100X
4507.1123 0.005243750785780 uA
-1.295 1.295 Delta : LC->LC MI PGA 10V Range 20mA 100X : -190.00
4507.1124 Exp= 0.66019 Act= 0.65738 uA LC->LC MI PGA 10V Range 20mA 100X
4507.1125 -0.002809452164512 uA
-1.2 1.2 Delta : LC->LC MI PGA 10V Range 20mA 100X : 0.00
4507.1126 Exp= 190.64604 Act= 190.65003 uA LC->LC MI PGA 10V Range 20mA 100X
4507.1127 0.003993051716947 uA
-1.295 1.295 Delta : LC->LC MI PGA 10V Range 20mA 100X : 190.00
4507.1128 Exp= -189.93020 Act= -189.93457 uA LC->LC MI PGA 10V Range 2mA 10X
4507.1129 -0.004365707786519 uA
-0.22 0.22 Delta : LC->LC MI PGA 10V Range 2mA 10X : -190.00
4507.1130 Exp= 0.07523 Act= 0.07008 uA LC->LC MI PGA 10V Range 2mA 10X
4507.1131 -0.005148954860596 uA
-0.125 0.125 Delta : LC->LC MI PGA 10V Range 2mA 10X : 0.00

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4507.1132                                   Exp= 190.07643    Act= 190.06689       uA
LC->LC MI PGA 10V Range 2mA 10X
4507.1133                                                     -0.009545517230009     uA
-0.22                0.22       Delta : LC->LC MI PGA 10V Range 2mA 10X : 190.00
4507.1134                                   Exp= -18.91614    Act= -18.91551       uA
LC->LC MI PGA 10V Range 2mA 100X
4507.1135                                                      0.000634992204382     uA
-0.144               0.144      Delta : LC->LC MI PGA 10V Range 2mA 100X : -
19.00
4507.1136                                   Exp= 0.08027      Act= 0.08134         uA
LC->LC MI PGA 10V Range 2mA 100X
4507.1137                                                      0.001073854645247     uA
-0.125               0.125      Delta : LC->LC MI PGA 10V Range 2mA 100X : 0.00
4507.1138                                   Exp= 19.08287     Act= 19.08594        uA
LC->LC MI PGA 10V Range 2mA 100X
4507.1139                                                      0.003073999695086     uA
-0.144               0.144      Delta : LC->LC MI PGA 10V Range 2mA 100X :
19.00
4507.1140                                   Exp= -18.99365    Act= -18.99371       uA
LC->LC MI PGA 10V Range 200uA 10X
4507.1141                                                     -0.000057160368090     uA
-0.034               0.034      Delta : LC->LC MI PGA 10V Range 200uA 10X : -
19.00
4507.1142                                   Exp= 0.00724      Act= 0.00649         uA
LC->LC MI PGA 10V Range 200uA 10X
4507.1143                                                     -0.000742899491793     uA
-0.015               0.015      Delta : LC->LC MI PGA 10V Range 200uA 10X :
0.00
4507.1144                                   Exp= 19.00546     Act= 19.00514        uA
LC->LC MI PGA 10V Range 200uA 10X
4507.1145                                                     -0.000325860699174     uA
-0.034               0.034      Delta : LC->LC MI PGA 10V Range 200uA 10X :
19.00
4507.1146                                   Exp= -1.89334     Act= -1.89326        uA
LC->LC MI PGA 10V Range 200uA 100X
4507.1147                                                      0.000077276679633     uA
-0.0169              0.0169      Delta : LC->LC MI PGA 10V Range 200uA 100X : -
1.90
4507.1148                                   Exp= 0.00790      Act= 0.00793         uA
LC->LC MI PGA 10V Range 200uA 100X
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4507.1149                                                    0.000038994416625     uA
-0.015              0.015       Delta : LC->LC MI PGA 10V Range 200uA 100X :
0.00
4507.1150                                Exp= 1.90667     Act= 1.90677          uA
LC->LC MI PGA 10V Range 200uA 100X
4507.1151                                                    0.000090530380573     uA
-0.0169             0.0169       Delta : LC->LC MI PGA 10V Range 200uA 100X :
1.90
4507.1152                                Exp= -1.89936    Act= -1.89938         uA
LC->LC MI PGA 10V Range 20uA 10X
4507.1153                                                   -0.000017648925598     uA
-0.0119             0.0119       Delta : LC->LC MI PGA 10V Range 20uA 10X : -
1.90
4507.1154                                Exp= 0.00061     Act= 0.00055          uA
LC->LC MI PGA 10V Range 20uA 10X
4507.1155                                                   -0.000056164427606     uA
-0.01               0.01       Delta : LC->LC MI PGA 10V Range 20uA 10X : 0.00
4507.1156                                Exp= 1.90074     Act= 1.90063          uA
LC->LC MI PGA 10V Range 20uA 10X
4507.1157                                                   -0.000105621745163     uA
-0.0119             0.0119       Delta : LC->LC MI PGA 10V Range 20uA 10X :
1.90
4507.1158                                Exp= -189.28387  Act= -189.27551       nA
LC->LC MI PGA 10V Range 20uA 100X
4507.1159                                                    0.008368041437592     nA
-10.19              10.19       Delta : LC->LC MI PGA 10V Range 20uA 100X : -
190.00
4507.1160                                Exp= 0.74532     Act= 0.73484          nA
LC->LC MI PGA 10V Range 20uA 100X
4507.1161                                                   -0.010486139875195     nA
-10                 10       Delta : LC->LC MI PGA 10V Range 20uA 100X : 0.00
4507.1162                                Exp= 190.69889   Act= 190.69918        nA
LC->LC MI PGA 10V Range 20uA 100X
4507.1163                                                    0.000289027511201     nA
-10.19              10.19       Delta : LC->LC MI PGA 10V Range 20uA 100X :
190.00
4507.1164                                Exp= -189.03181  Act= -189.03694       nA
LC->LC MI PGA 10V Range 2uA 10X
4507.1165                                                   -0.005133062510652     nA
-6.19               6.19       Delta : LC->LC MI PGA 10V Range 2uA 10X : -
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190.00
4507.1166                                   Exp= 0.94591     Act= 0.94160         nA
LC->LC MI PGA 10V Range 2uA 10X
4507.1167                                                -0.004318308123778     nA
-6                  6       Delta : LC->LC MI PGA 10V Range 2uA 10X : 0.00
4507.1168                                   Exp= 190.93401   Act= 190.91902       nA
LC->LC MI PGA 10V Range 2uA 10X
4507.1169                                                -0.014988113974709     nA
-6.19               6.19       Delta : LC->LC MI PGA 10V Range 2uA 10X : 190.00
4507.1170                                   Exp= -17.97146   Act= -17.96860       nA
LC->LC MI PGA 10V Range 2uA 100X
4507.1171                                                 0.002858614647810     nA
-6.019              6.019       Delta : LC->LC MI PGA 10V Range 2uA 100X : -
19.00
4507.1172                                   Exp= 0.97250     Act= 0.96344         nA
LC->LC MI PGA 10V Range 2uA 100X
4507.1173                                                -0.009060911230987     nA
-6                  6       Delta : LC->LC MI PGA 10V Range 2uA 100X : 0.00
4507.1174                                   Exp= 19.92013    Act= 19.92037        nA
LC->LC MI PGA 10V Range 2uA 100X
4507.1175                                                 0.000244692693617     nA
-6.019              6.019       Delta : LC->LC MI PGA 10V Range 2uA 100X :
19.00
4507.1176                                   Exp= -665.20634  Act= -665.31395      mA
HC->HC MI PGA 75V Range 100A 10X
4507.1177                                                -0.107604702087315     mA
-18.325             18.325      Delta : HC->HC MI PGA 75V Range 100A 10X : -
665.00
4507.1178                                   Exp= -1.52034    Act= -1.55550        mA
HC->HC MI PGA 75V Range 100A 10X
4507.1179                                                -0.035158858758994     mA
-15                 15       Delta : HC->HC MI PGA 75V Range 100A 10X : 0.00
4507.1180                                   Exp= 661.72332   Act= 661.76626       mA
HC->HC MI PGA 75V Range 100A 10X
4507.1181                                                 0.042944735157789     mA
-18.325             18.325       Delta : HC->HC MI PGA 75V Range 100A 10X :
665.00
4507.1182                                   Exp= -665.17389  Act= -665.03659      mA
HC->HC MI PGA 75V Range 100A 100X
4507.1183                                                 0.137302699862403     mA
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-10.825 10.825 Delta : HC->HC MI PGA 75V Range 100A 100X : -665.00
4507.1184 Exp= -1.39806 Act= -1.23319 mA HC->HC MI PGA 75V Range 100A 100X
4507.1185 0.164871768180428 mA
-7.5 7.5 Delta : HC->HC MI PGA 75V Range 100A 100X : 0.00
4507.1186 Exp= 661.91679 Act= 662.02955 mA HC->HC MI PGA 75V Range 100A 100X
4507.1187 0.112759169132346 mA
-10.825 10.825 Delta : HC->HC MI PGA 75V Range 100A 100X : 665.00
4507.1188 Exp= -665.57842 Act= -665.51481 mA HC->HC MI PGA 75V Range 10A 10X
4507.1189 0.063618062789715 mA
-4.825 4.825 Delta : HC->HC MI PGA 75V Range 10A 10X : -665.00
4507.1190 Exp= -0.01972 Act= -0.04383 mA HC->HC MI PGA 75V Range 10A 10X
4507.1191 -0.024117083964447 mA
-1.5 1.5 Delta : HC->HC MI PGA 75V Range 10A 10X : 0.00
4507.1192 Exp= 665.38805 Act= 665.40158 mA HC->HC MI PGA 75V Range 10A 10X
4507.1193 0.013528781625837 mA
-4.825 4.825 Delta : HC->HC MI PGA 75V Range 10A 10X : 665.00
4507.1194 Exp= -665.57842 Act= -665.51481 mA HC->HC MI With booster improved cal check 75V Range 10A 10X
4507.1195 0.063618062789715 mA
-2.6305 2.6305 Delta : HC->HC MI With booster improved cal check 75V Range 10A 10X : -665.00
4507.1196 Exp= -0.01972 Act= -0.04383 mA HC->HC MI With booster improved cal check 75V Range 10A 10X
4507.1197 -0.024117083964447 mA
-1.5 1.5 Delta : HC->HC MI With booster improved cal check 75V Range 10A 10X : 0.00
4507.1198 Exp= 665.38805 Act= 665.40158 mA HC->HC MI With booster improved cal check 75V Range 10A 10X
4507.1199 0.013528781625837 mA
-2.6305 2.6305 Delta : HC->HC MI With booster improved cal check 75V Range 10A 10X : 665.00

4507.1200 Exp= -66.84128 Act= -66.79389 mA
HC->HC MI PGA 75V Range 10A 100X
4507.1201 0.047391497064695 mA
-1.0825 1.0825 Delta : HC->HC MI PGA 75V Range 10A 100X : -
66.50
4507.1202 Exp= -0.15341 Act= -0.17784 mA
HC->HC MI PGA 75V Range 10A 100X
4507.1203 -0.024421264345535 mA
-0.75 0.75 Delta : HC->HC MI PGA 75V Range 10A 100X : 0.00
4507.1204 Exp= 66.35074 Act= 66.37601 mA
HC->HC MI PGA 75V Range 10A 100X
4507.1205 0.025270378033810 mA
-1.0825 1.0825 Delta : HC->HC MI PGA 75V Range 10A 100X :
66.50
4507.1206 Exp= -66.84128 Act= -66.79389 mA
HC->HC MI With booster improved cal check 75V Range 10A 100X
4507.1207 0.047391497064695 mA
-0.86305 0.86305 Delta : HC->HC MI With booster improved cal
check 75V Range 10A 100X : -66.50
4507.1208 Exp= -0.15341 Act= -0.17784 mA
HC->HC MI With booster improved cal check 75V Range 10A 100X
4507.1209 -0.024421264345535 mA
-0.75 0.75 Delta : HC->HC MI With booster improved cal
check 75V Range 10A 100X : 0.00
4507.1210 Exp= 66.35074 Act= 66.37601 mA
HC->HC MI With booster improved cal check 75V Range 10A 100X
4507.1211 0.025270378033810 mA
-0.86305 0.86305 Delta : HC->HC MI With booster improved cal
check 75V Range 10A 100X : 66.50
4507.1212 Exp= -266.16171 Act= -266.15866 mA
HC->HC MI PGA 75V Range 4A 10X
4507.1213 0.003048226281123 mA
-1.157 1.157 Delta : HC->HC MI PGA 75V Range 4A 10X : -
266.00
4507.1214 Exp= -0.01005 Act= -0.03786 mA
HC->HC MI PGA 75V Range 4A 10X
4507.1215 -0.027809376336596 mA
-0.625 0.625 Delta : HC->HC MI PGA 75V Range 4A 10X : 0.00
4507.1216 Exp= 266.09084 Act= 266.09303 mA
HC->HC MI PGA 75V Range 4A 10X

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4507.1217                                                    0.002192815989076     mA
-1.157                1.157       Delta : HC->HC MI PGA 75V Range 4A 10X : 266.00
4507.1218                                Exp= -26.64628   Act= -26.63842        mA
HC->HC MI PGA 75V Range 4A 100X
4507.1219                                                    0.007864017982786     mA
-0.3652               0.3652       Delta : HC->HC MI PGA 75V Range 4A 100X : -
26.60
4507.1220                                Exp= -0.04261    Act= -0.04784         mA
HC->HC MI PGA 75V Range 4A 100X
4507.1221                                                   -0.005235079325916     mA
-0.312                0.312       Delta : HC->HC MI PGA 75V Range 4A 100X : 0.00
4507.1222                                Exp= 26.53231    Act= 26.54780         mA
HC->HC MI PGA 75V Range 4A 100X
4507.1223                                                    0.015484065496192     mA
-0.3652               0.3652       Delta : HC->HC MI PGA 75V Range 4A 100X :
26.60
4507.1224                                Exp= -665.10484  Act= -665.24172       mA
HC->HC MI PGA 30V Range 100A 10X
4507.1225                                                   -0.136880514661357     mA
-18.325               18.325       Delta : HC->HC MI PGA 30V Range 100A 10X : -
665.00
4507.1226                                Exp= -1.39783    Act= -1.51726         mA
HC->HC MI PGA 30V Range 100A 10X
4507.1227                                                   -0.119429094910435     mA
-15                   15       Delta : HC->HC MI PGA 30V Range 100A 10X : 0.00
4507.1228                                Exp= 661.86455   Act= 661.72942        mA
HC->HC MI PGA 30V Range 100A 10X
4507.1229                                                   -0.135132067578525     mA
-18.325               18.325       Delta : HC->HC MI PGA 30V Range 100A 10X :
665.00
4507.1230                                Exp= -665.23311  Act= -665.03193       mA
HC->HC MI PGA 30V Range 100A 100X
4507.1231                                                    0.201177325552294     mA
-10.825               10.825       Delta : HC->HC MI PGA 30V Range 100A 100X : -
665.00
4507.1232                                Exp= -1.32753    Act= -1.26715         mA
HC->HC MI PGA 30V Range 100A 100X
4507.1233                                                    0.060370762815316     mA
-7.5                  7.5       Delta : HC->HC MI PGA 30V Range 100A 100X : 0.00
4507.1234                                Exp= 661.87739   Act= 662.03454        mA
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HC->HC MI PGA 30V Range 100A 100X
4507.1235                                                0.157147932935118     mA
-10.825               10.825       Delta : HC->HC MI PGA 30V Range 100A 100X :
665.00
4507.1236                                Exp= -665.55789  Act= -665.43651      mA
HC->HC MI PGA 30V Range 10A 10X
4507.1237                                                0.121380112865609     mA
-4.825                4.825       Delta : HC->HC MI PGA 30V Range 10A 10X : -
665.00
4507.1238                                Exp= -0.00418    Act= -0.00059        mA
HC->HC MI PGA 30V Range 10A 10X
4507.1239                                                0.003587138906458     mA
-1.5                  1.5       Delta : HC->HC MI PGA 30V Range 10A 10X : 0.00
4507.1240                                Exp= 665.32895   Act= 665.34105       mA
HC->HC MI PGA 30V Range 10A 10X
4507.1241                                                0.012099546968784     mA
-4.825                4.825       Delta : HC->HC MI PGA 30V Range 10A 10X :
665.00
4507.1242                                Exp= -665.55789  Act= -665.43651      mA
HC->HC MI With booster improved cal check 30V Range 10A 10X
4507.1243                                                0.121380112865609     mA
-2.6305               2.6305       Delta : HC->HC MI With booster improved cal
check 30V Range 10A 10X : -665.00
4507.1244                                Exp= -0.00418    Act= -0.00059        mA
HC->HC MI With booster improved cal check 30V Range 10A 10X
4507.1245                                                0.003587138906458     mA
-1.5                  1.5       Delta : HC->HC MI With booster improved cal check
30V Range 10A 10X : 0.00
4507.1246                                Exp= 665.32895   Act= 665.34105       mA
HC->HC MI With booster improved cal check 30V Range 10A 10X
4507.1247                                                0.012099546968784     mA
-2.6305               2.6305       Delta : HC->HC MI With booster improved cal
check 30V Range 10A 10X : 665.00
4507.1248                                Exp= -66.80714   Act= -66.76328       mA
HC->HC MI PGA 30V Range 10A 100X
4507.1249                                                0.043858216601137     mA
-1.0825               1.0825       Delta : HC->HC MI PGA 30V Range 10A 100X : -
66.50
4507.1250                                Exp= -0.11114    Act= -0.14099        mA
HC->HC MI PGA 30V Range 10A 100X
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4507.1251 -0.029849523827284 mA
-0.75 0.75 Delta : HC->HC MI PGA 30V Range 10A 100X : 0.00
4507.1252 Exp= 66.39013 Act= 66.41759 mA
HC->HC MI PGA 30V Range 10A 100X
4507.1253 0.027458530978748 mA
-1.0825 1.0825 Delta : HC->HC MI PGA 30V Range 10A 100X :
66.50
4507.1254 Exp= -66.80714 Act= -66.76328 mA
HC->HC MI With booster improved cal check 30V Range 10A 100X
4507.1255 0.043858216601137 mA
-0.86305 0.86305 Delta : HC->HC MI With booster improved cal
check 30V Range 10A 100X : -66.50
4507.1256 Exp= -0.11114 Act= -0.14099 mA
HC->HC MI With booster improved cal check 30V Range 10A 100X
4507.1257 -0.029849523827284 mA
-0.75 0.75 Delta : HC->HC MI With booster improved cal
check 30V Range 10A 100X : 0.00
4507.1258 Exp= 66.39013 Act= 66.41759 mA
HC->HC MI With booster improved cal check 30V Range 10A 100X
4507.1259 0.027458530978748 mA
-0.86305 0.86305 Delta : HC->HC MI With booster improved cal
check 30V Range 10A 100X : 66.50
4507.1260 Exp= -266.17491 Act= -266.17746 mA
HC->HC MI PGA 30V Range 4A 10X
4507.1261 -0.002545458321208 mA
-1.157 1.157 Delta : HC->HC MI PGA 30V Range 4A 10X : -
266.00
4507.1262 Exp= 0.00717 Act= -0.02481 mA
HC->HC MI PGA 30V Range 4A 10X
4507.1263 -0.031977721497907 mA
-0.625 0.625 Delta : HC->HC MI PGA 30V Range 4A 10X : 0.00
4507.1264 Exp= 266.10334 Act= 266.10481 mA
HC->HC MI PGA 30V Range 4A 10X
4507.1265 0.001466711597516 mA
-1.157 1.157 Delta : HC->HC MI PGA 30V Range 4A 10X : 266.00
4507.1266 Exp= -26.66118 Act= -26.64619 mA
HC->HC MI PGA 30V Range 4A 100X
4507.1267 0.014988949009563 mA
-0.3652 0.3652 Delta : HC->HC MI PGA 30V Range 4A 100X : -
26.60

4507.1268 Exp= -0.02078 Act= -0.03360 mA
HC->HC MI PGA 30V Range 4A 100X
4507.1269 -0.012826393077272 mA
-0.312 0.312 Delta : HC->HC MI PGA 30V Range 4A 100X : 0.00
4507.1270 Exp= 26.54289 Act= 26.55399 mA
HC->HC MI PGA 30V Range 4A 100X
4507.1271 0.011101656551890 mA
-0.3652 0.3652 Delta : HC->HC MI PGA 30V Range 4A 100X :
26.60
4507.1272 Exp= -664.95654 Act= -665.12376 mA
HC->HC MI PGA 10V Range 100A 10X
4507.1273 -0.167220052556445 mA
-18.325 18.325 Delta : HC->HC MI PGA 10V Range 100A 10X : -
665.00
4507.1274 Exp= -1.29860 Act= -1.49084 mA
HC->HC MI PGA 10V Range 100A 10X
4507.1275 -0.192236971974818 mA
-15 15 Delta : HC->HC MI PGA 10V Range 100A 10X : 0.00
4507.1276 Exp= 662.12723 Act= 661.71027 mA
HC->HC MI PGA 10V Range 100A 10X
4507.1277 -0.416953808901894 mA
-18.325 18.325 Delta : HC->HC MI PGA 10V Range 100A 10X :
665.00
4507.1278 Exp= -664.89544 Act= -664.90415 mA
HC->HC MI PGA 10V Range 100A 100X
4507.1279 -0.008703148468271 mA
-10.825 10.825 Delta : HC->HC MI PGA 10V Range 100A 100X : -
665.00
4507.1280 Exp= -1.20689 Act= -1.19023 mA
HC->HC MI PGA 10V Range 100A 100X
4507.1281 0.016665999219194 mA
-7.5 7.5 Delta : HC->HC MI PGA 10V Range 100A 100X : 0.00
4507.1282 Exp= 662.09739 Act= 662.04731 mA
HC->HC MI PGA 10V Range 100A 100X
4507.1283 -0.050088913862624 mA
-10.825 10.825 Delta : HC->HC MI PGA 10V Range 100A 100X :
665.00
4507.1284 Exp= -664.77385 Act= -664.84945 mA
HC->HC MI PGA 10V Range 10A 10X
4507.1285 -0.075602290367442 mA

-4.825 4.825 Delta : HC->HC MI PGA 10V Range 10A 10X : -665.00
4507.1286 Exp= 0.02670 Act= 0.08730 mA HC->HC MI PGA 10V Range 10A 10X
4507.1287 0.060607538484295 mA
-1.5 1.5 Delta : HC->HC MI PGA 10V Range 10A 10X : 0.00
4507.1288 Exp= 665.04586 Act= 665.00173 mA HC->HC MI PGA 10V Range 10A 10X
4507.1289 -0.044130552059187 mA
-4.825 4.825 Delta : HC->HC MI PGA 10V Range 10A 10X : 665.00
4507.1290 Exp= -664.77385 Act= -664.84945 mA HC->HC MI With booster improved cal check 10V Range 10A 10X
4507.1291 -0.075602290367442 mA
-2.6305 2.6305 Delta : HC->HC MI With booster improved cal check 10V Range 10A 10X : -665.00
4507.1292 Exp= 0.02670 Act= 0.08730 mA HC->HC MI With booster improved cal check 10V Range 10A 10X
4507.1293 0.060607538484295 mA
-1.5 1.5 Delta : HC->HC MI With booster improved cal check 10V Range 10A 10X : 0.00
4507.1294 Exp= 665.04586 Act= 665.00173 mA HC->HC MI With booster improved cal check 10V Range 10A 10X
4507.1295 -0.044130552059187 mA
-2.6305 2.6305 Delta : HC->HC MI With booster improved cal check 10V Range 10A 10X : 665.00
4507.1296 Exp= -66.46967 Act= -66.46708 mA HC->HC MI PGA 10V Range 10A 100X
4507.1297 0.002586371582154 mA
-1.0825 1.0825 Delta : HC->HC MI PGA 10V Range 10A 100X : -66.50
4507.1298 Exp= 0.01247 Act= 0.02499 mA HC->HC MI PGA 10V Range 10A 100X
4507.1299 0.012518581710445 mA
-0.75 0.75 Delta : HC->HC MI PGA 10V Range 10A 100X : 0.00
4507.1300 Exp= 66.37381 Act= 66.37688 mA HC->HC MI PGA 10V Range 10A 100X
4507.1301 0.003066319162983 mA
-1.0825 1.0825 Delta : HC->HC MI PGA 10V Range 10A 100X : 66.50

4507.1302 Exp= -66.46967 Act= -66.46708 mA
HC->HC MI With booster improved cal check 10V Range 10A 100X
4507.1303 0.002586371582154 mA
-0.86305 0.86305 Delta : HC->HC MI With booster improved cal
check 10V Range 10A 100X : -66.50
4507.1304 Exp= 0.01247 Act= 0.02499 mA
HC->HC MI With booster improved cal check 10V Range 10A 100X
4507.1305 0.012518581710445 mA
-0.75 0.75 Delta : HC->HC MI With booster improved cal
check 10V Range 10A 100X : 0.00
4507.1306 Exp= 66.37381 Act= 66.37688 mA
HC->HC MI With booster improved cal check 10V Range 10A 100X
4507.1307 0.003066319162983 mA
-0.86305 0.86305 Delta : HC->HC MI With booster improved cal
check 10V Range 10A 100X : 66.50
4507.1308 Exp= -265.98716 Act= -266.00473 mA
HC->HC MI PGA 10V Range 4A 10X
4507.1309 -0.017569814213346 mA
-1.157 1.157 Delta : HC->HC MI PGA 10V Range 4A 10X : -
266.00
4507.1310 Exp= -0.00944 Act= -0.00838 mA
HC->HC MI PGA 10V Range 4A 10X
4507.1311 0.001060320874618 mA
-0.625 0.625 Delta : HC->HC MI PGA 10V Range 4A 10X : 0.00
4507.1312 Exp= 265.98017 Act= 265.96634 mA
HC->HC MI PGA 10V Range 4A 10X
4507.1313 -0.013824553831796 mA
-1.157 1.157 Delta : HC->HC MI PGA 10V Range 4A 10X : 266.00
4507.1314 Exp= -26.56713 Act= -26.56670 mA
HC->HC MI PGA 10V Range 4A 100X
4507.1315 0.000424818745458 mA
-0.3652 0.3652 Delta : HC->HC MI PGA 10V Range 4A 100X : -
26.60
4507.1316 Exp= -0.00177 Act= 0.00023 mA
HC->HC MI PGA 10V Range 4A 100X
4507.1317 0.001996108764063 mA
-0.312 0.312 Delta : HC->HC MI PGA 10V Range 4A 100X : 0.00
4507.1318 Exp= 26.57541 Act= 26.57194 mA
HC->HC MI PGA 10V Range 4A 100X
4507.1319 -0.003472054188137 mA

```
-0.3652              0.3652       Delta : HC->HC MI PGA 10V Range 4A 100X :
26.60
   4508.0                                                HC relays verified
DIB HC Relays Check
   4508.1                                                                0 status
0       DIB HC Relays Check
   4508.2                                     Measure the HV 20V divider
External HV Source Calibration Factors
   4508.3                                                                0 status
0       External HV Source Calibration Factors
   4508.4                                    Measure the HV 200V divider
External HV Source Calibration Factors
   4508.5                                                                0 status
0       External HV Source Calibration Factors
   4508.6                                                Measure 2000V path
External HV Source Calibration Factors
   4508.7                                                                0 status
0       External HV Source Calibration Factors
   4508.8                                                  Measure ATTEN_2
External HV Source Calibration Factors
   4508.9                                                                0 status
0       External HV Source Calibration Factors
  4508.10                                    HV cal factors to/from file
External HV Source Calibration Factors
  4508.11                                                                0 status
0       External HV Source Calibration Factors
  4508.12                                    External HV Source Cal Data
External HV Source Calibration Factors
  4508.13                                                                0 status
0       External HV Source Calibration Factors
  4508.14                                                          -0.00130
-0.0016294         -0.00097761       External HV Source 20V Range slope
  4508.15                                                          -0.00125
-0.05                0.05       External HV Source 20V Range offset
  4508.16                                                          -0.01406
-0.017924           -0.010754       External HV Source 200V Range slope
  4508.17                                                          -0.01349
-0.5                 0.5       External HV Source 200V Range offset
  4508.18                                                          -0.12212
-0.15259           -0.091554       External HV Source 2000V Range slope
```

```
  4508.19                                                          -0.11667
-5                  5       External HV Source 2000V Range offset
  4508.20                                                           0.48950
Atten_2 value
  4508.21                           Exp= -9.49906    Act= -9.49906         V
Volt Meter 10V Range 1X
  4508.22                                              0.000002377091761     V
-0.00595            0.00595       Delta : Volt Meter 10V Range 1X : -9.50
  4508.23                           Exp= 0.00093     Act= 0.00092          V
Volt Meter 10V Range 1X
  4508.24                                             -0.000007470968541     V
-0.0012             0.0012        Delta : Volt Meter 10V Range 1X : 0.00
  4508.25                           Exp= 9.50094     Act= 9.50096          V
Volt Meter 10V Range 1X
  4508.26                                              0.000018231496151     V
-0.00595            0.00595       Delta : Volt Meter 10V Range 1X : 9.50
  4508.27                           Exp= -28.49923   Act= -28.49911        V
Volt Meter 30V Range 1X
  4508.28                                              0.000115048771288     V
-0.01825            0.01825       Delta : Volt Meter 30V Range 1X : -28.50
  4508.29                           Exp= 0.00100     Act= 0.00103          V
Volt Meter 30V Range 1X
  4508.30                                              0.000030557001449     V
-0.004              0.004         Delta : Volt Meter 30V Range 1X : 0.00
  4508.31                           Exp= 28.50088    Act= 28.50105         V
Volt Meter 30V Range 1X
  4508.32                                              0.000167387894106     V
-0.01825            0.01825       Delta : Volt Meter 30V Range 1X : 28.50
  4508.33                           Exp= -94.99912   Act= -94.99920        V
Volt Meter 100V Range 1X
  4508.34                                             -0.000076461632091     V
-0.06               0.06        Delta : Volt Meter 100V Range 1X : -95.00
  4508.35                           Exp= 0.00081     Act= 0.00096          V
Volt Meter 100V Range 1X
  4508.36                                              0.000150248320136     V
-0.0125             0.0125        Delta : Volt Meter 100V Range 1X : 0.00
  4508.37                           Exp= 95.00075    Act= 95.00115         V
Volt Meter 100V Range 1X
  4508.38                                              0.000405403811570     V
-0.06               0.06        Delta : Volt Meter 100V Range 1X : 95.00
```

```
  4508.39                                Exp= -0.94900    Act= -0.94900         V
Volt Meter 10V Range 10X
  4508.40                                                 0.000002588914456     V
-0.001075            0.001075       Delta : Volt Meter 10V Range 10X : -0.95
  4508.41                                Exp= 0.00093     Act= 0.00092          V
Volt Meter 10V Range 10X
  4508.42                                                -0.000001963790197     V
-0.0006              0.0006         Delta : Volt Meter 10V Range 10X : 0.00
  4508.43                                Exp= 0.95097     Act= 0.95097          V
Volt Meter 10V Range 10X
  4508.44                                                 0.000002216724199     V
-0.001075            0.001075       Delta : Volt Meter 10V Range 10X : 0.95
  4508.45                                Exp= -0.09406    Act= -0.09406         V
Volt Meter 10V Range 100X
  4508.46                                                 0.000003741696124     V
-0.0003475           0.0003475       Delta : Volt Meter 10V Range 100X : -0.10
  4508.47                                Exp= 0.00092     Act= 0.00093          V
Volt Meter 10V Range 100X
  4508.48                                                 0.000007784681551     V
-0.0003              0.0003         Delta : Volt Meter 10V Range 100X : 0.00
  4508.49                                Exp= 0.09592     Act= 0.09592          V
Volt Meter 10V Range 100X
  4508.50                                                 0.000001281820212     V
-0.0003475           0.0003475       Delta : Volt Meter 10V Range 100X : 0.10
  4508.51                                Exp= -2.84900    Act= -2.84898         V
Volt Meter 30V Range 10X
  4508.52                                                 0.000022974451297     V
-0.003425            0.003425       Delta : Volt Meter 30V Range 10X : -2.85
  4508.53                                Exp= 0.00099     Act= 0.00103          V
Volt Meter 30V Range 10X
  4508.54                                                 0.000036714515904     V
-0.002               0.002          Delta : Volt Meter 30V Range 10X : 0.00
  4508.55                                Exp= 2.85105     Act= 2.85109          V
Volt Meter 30V Range 10X
  4508.56                                                 0.000043152093880     V
-0.003425            0.003425       Delta : Volt Meter 30V Range 10X : 2.85
  4508.57                                Exp= -0.28397    Act= -0.28394         V
Volt Meter 30V Range 100X
  4508.58                                                 0.000029707153303     V
-0.0011425           0.0011425       Delta : Volt Meter 30V Range 100X : -0.29
```

```
  4508.59                                Exp= 0.00099     Act= 0.00102          V
Volt Meter 30V Range 100X
  4508.60                                                 0.000034591950805     V
-0.001               0.001       Delta : Volt Meter 30V Range 100X : 0.00
  4508.61                                Exp= 0.28596     Act= 0.28599          V
Volt Meter 30V Range 100X
  4508.62                                                 0.000031762646918     V
-0.0011425           0.0011425       Delta : Volt Meter 30V Range 100X : 0.29
  4508.63                                Exp= -9.49910    Act= -9.49892         V
Volt Meter 100V Range 10X
  4508.64                                                 0.000186384682040     V
-0.01075             0.01075       Delta : Volt Meter 100V Range 10X : -9.50
  4508.65                                Exp= 0.00088     Act= 0.00097          V
Volt Meter 100V Range 10X
  4508.66                                                 0.000094927982456     V
-0.006               0.006       Delta : Volt Meter 100V Range 10X : 0.00
  4508.67                                Exp= 9.50094     Act= 9.50104          V
Volt Meter 100V Range 10X
  4508.68                                                 0.000097991075741     V
-0.01075             0.01075       Delta : Volt Meter 100V Range 10X : 9.50
  4508.69                                Exp= -0.94878    Act= -0.94864         V
Volt Meter 100V Range 100X
  4508.70                                                 0.000133678669048     V
-0.003475            0.003475      Delta : Volt Meter 100V Range 100X : -0.95
  4508.71                                Exp= 0.00085     Act= 0.00098          V
Volt Meter 100V Range 100X
  4508.72                                                 0.000134630772336     V
-0.003               0.003       Delta : Volt Meter 100V Range 100X : 0.00
  4508.73                                Exp= 0.95048     Act= 0.95062          V
Volt Meter 100V Range 100X
  4508.74                                                 0.000141430149250     V
-0.003475            0.003475       Delta : Volt Meter 100V Range 100X : 0.95
  4508.75                                Exp= 0.00163     Act= 0.00176          V
Volt Meter 1KV Range 1X
  4508.76                                                 0.000127629018149     V
-0.125               0.125       Delta : Volt Meter 1KV Range 1X : 0.00
  4508.77                                Exp= 499.61439   Act= 499.60453        V
Volt Meter 1KV Range 1X
  4508.78                                                -0.009861861871173     V
-0.375               0.375       Delta : Volt Meter 1KV Range 1X : 500.00
```

```
  4508.79                                Exp= 1000.44505  Act= 1000.41743       V
Volt Meter 1KV Range 1X
  4508.80                                                -0.027624812773979      V
-0.625               0.625       Delta : Volt Meter 1KV Range 1X : 1000.00
  4508.81                                Exp= 0.00144     Act= 0.00126          V
Volt Meter 1KV Range 10X
  4508.82                                                -0.000176520077084      V
-0.06                0.06        Delta : Volt Meter 1KV Range 10X : 0.00
  4508.83                                Exp= 48.82991    Act= 48.83094         V
Volt Meter 1KV Range 10X
  4508.84                                                 0.001021055130380      V
-0.085               0.085       Delta : Volt Meter 1KV Range 10X : 50.00
  4508.85                                Exp= 97.78381    Act= 97.78358         V
Volt Meter 1KV Range 10X
  4508.86                                                -0.000235056138351      V
-0.11                0.11        Delta : Volt Meter 1KV Range 10X : 100.00
  4508.87                                Exp= 0.00009     Act= 0.00032          V
Volt Meter 1KV Range 100X
  4508.88                                                 0.000230512396817      V
-0.03                0.03        Delta : Volt Meter 1KV Range 100X : 0.00
  4508.89                                Exp= 4.98509     Act= 4.98567          V
Volt Meter 1KV Range 100X
  4508.90                                                 0.000580281264332      V
-0.0325              0.0325       Delta : Volt Meter 1KV Range 100X : 5.00
  4508.91                                Exp= 9.98175     Act= 9.98185          V
Volt Meter 1KV Range 100X
  4508.92                                                 0.000098774567991      V
-0.035               0.035       Delta : Volt Meter 1KV Range 100X : 10.00
   4509.0                                                              34.9  deg C
MotherBoard Cal Temperature
   4509.1                                                              35.3  deg C
MotherBoard Chk Temperature
   4509.2   MotherBoard temperature check Exp = 34.864883, Act = 35.295547
MotherBoard Chk Temperature
   4509.3                                                                 0 status
0       MotherBoard Chk Temperature
   4509.4                                                              30.1  deg C
Control Board Cal Temperature
   4509.5                                                              30.5  deg C
Control Board Chk Temperature
```

```
   4509.6 Control Board temperature check Exp = 30.144442, Act = 30.531286
Control Board Chk Temperature
   4509.7                                                                0 status
0       Control Board Chk Temperature
Datalog for: Check HPU-100            REV 43, Site #0, Bin #1
  TEST#                                                                RESULT
UNITS                LOWER                UPPER ALARM TEST NAME
---------- ------------------------------------------------------------------ -----
- -------------------- -------------------- ----- ------------------------------
------------------------------------------------------------

    4500.0                                                                 0
0       If this failed there are Fatal Errors during Startup, Check System
Monitor
 4500.1000                                                    ETS1UOJUM00038
COMPUTER INFORMATION - Name
 4500.1001                                                      1000.000000
V                                                 DIAG/CAL INFORMATION - Maximum
Voltage
 4500.1101                                                              0
0       PLD REVISION INFORMATION
 4500.1103                                                              0
0       PLD REVISION INFORMATION
 4500.1105                                                              3
3       PLD REVISION INFORMATION
 4500.1106                                          DATA[0]={0, 0, 1, 0, 5}
PLD REVISION INFORMATION
 4500.1107                                          DATA[1]={0, 1, 1, 0, 8}
PLD REVISION INFORMATION
 4500.1108                                       DATA[2]={0, 0, 1, 0, 1990}
PLD REVISION INFORMATION
4501.10000                                                        -29.99305
V             -30.027              -29.973       LC->LC 16 Bit DRV 30V Range
4501.10001                                                0.006953200000002
V              -0.027                0.027       Delta : LC->LC 16 Bit DRV 30V
Range : -30.00
4501.10002                                                        -25.99853
V             -26.025              -25.975       LC->LC 16 Bit DRV 30V Range
4501.10003                                                0.001467699999999
V              -0.025                0.025       Delta : LC->LC 16 Bit DRV 30V
Range : -26.00
```

4501.10004 -22.00093
V -22.023 -21.977 LC->LC 16 Bit DRV 30V Range
4501.10005 -0.000927900000001
V -0.023 0.023 Delta : LC->LC 16 Bit DRV 30V
Range : -22.00
4501.10006 -18.00266
V -18.021 -17.979 LC->LC 16 Bit DRV 30V Range
4501.10007 -0.002660800000001
V -0.021 0.021 Delta : LC->LC 16 Bit DRV 30V
Range : -18.00
4501.10008 -10.00360
V -10.017 -9.983 LC->LC 16 Bit DRV 30V Range
4501.10009 -0.003595400000000
V -0.017 0.017 Delta : LC->LC 16 Bit DRV 30V
Range : -10.00
4501.10010 -0.00313
V -0.012 0.012 LC->LC 16 Bit DRV 30V Range
4501.10011 -0.003131101260000
V -0.012 0.012 Delta : LC->LC 16 Bit DRV 30V
Range : 0.00
4501.10012 9.99747
V 9.983 10.017 LC->LC 16 Bit DRV 30V Range
4501.10013 -0.002534870000000
V -0.017 0.017 Delta : LC->LC 16 Bit DRV 30V
Range : 10.00
4501.10014 17.99969
V 17.979 18.021 LC->LC 16 Bit DRV 30V Range
4501.10015 -0.000308000000000
V -0.021 0.021 Delta : LC->LC 16 Bit DRV 30V
Range : 18.00
4501.10016 22.00067
V 21.977 22.023 LC->LC 16 Bit DRV 30V Range
4501.10017 0.000674199999999
V -0.023 0.023 Delta : LC->LC 16 Bit DRV 30V
Range : 22.00
4501.10018 26.00140
V 25.975 26.025 LC->LC 16 Bit DRV 30V Range
4501.10019 0.001395200000001
V -0.025 0.025 Delta : LC->LC 16 Bit DRV 30V
Range : 26.00

4501.10020			30.00201
V	29.973	30.027	LC->LC 16 Bit DRV 30V Range
4501.10021			0.002005600000000
V	-0.027	0.027	Delta : LC->LC 16 Bit DRV 30V
Range : 30.00			
4501.10022			-9.99824
V	-10.013	-9.987	LC->LC 16 Bit DRV 10V Range
4501.10023			0.001763340000000
V	-0.013	0.013	Delta : LC->LC 16 Bit DRV 10V
Range : -10.00			
4501.10024			-8.00009
V	-8.012	-7.988	LC->LC 16 Bit DRV 10V Range
4501.10025			-0.000089170000001
V	-0.012	0.012	Delta : LC->LC 16 Bit DRV 10V
Range : -8.00			
4501.10026			-6.00069
V	-6.011	-5.989	LC->LC 16 Bit DRV 10V Range
4501.10027			-0.000689510000000
V	-0.011	0.011	Delta : LC->LC 16 Bit DRV 10V
Range : -6.00			
4501.10028			-4.00103
V	-4.01	-3.99	LC->LC 16 Bit DRV 10V Range
4501.10029			-0.001031400000000
V	-0.01	0.01	Delta : LC->LC 16 Bit DRV 10V
Range : -4.00			
4501.10030			-2.00080
V	-2.009	-1.991	LC->LC 16 Bit DRV 10V Range
4501.10031			-0.000797030000000
V	-0.009	0.009	Delta : LC->LC 16 Bit DRV 10V
Range : -2.00			
4501.10032			-0.00074
V	-0.008	0.008	LC->LC 16 Bit DRV 10V Range
4501.10033			-0.000738942093000
V	-0.008	0.008	Delta : LC->LC 16 Bit DRV 10V
Range : 0.00			
4501.10034			1.99932
V	1.991	2.009	LC->LC 16 Bit DRV 10V Range
4501.10035			-0.000677470000000
V	-0.009	0.009	Delta : LC->LC 16 Bit DRV 10V
Range : 2.00			

4501.10036			4.00005
V	3.99	4.01	LC->LC 16 Bit DRV 10V Range
4501.10037			0.000048400000000
V	-0.01	0.01	Delta : LC->LC 16 Bit DRV 10V
Range : 4.00			
4501.10038			6.00018
V	5.989	6.011	LC->LC 16 Bit DRV 10V Range
4501.10039			0.000178810000000
V	-0.011	0.011	Delta : LC->LC 16 Bit DRV 10V
Range : 6.00			
4501.10040			8.00084
V	7.988	8.012	LC->LC 16 Bit DRV 10V Range
4501.10041			0.000844000000001
V	-0.012	0.012	Delta : LC->LC 16 Bit DRV 10V
Range : 8.00			
4501.10042			10.00093
V	9.987	10.013	LC->LC 16 Bit DRV 10V Range
4501.10043			0.000933200000000
V	-0.013	0.013	Delta : LC->LC 16 Bit DRV 10V
Range : 10.00			
4502.10000			-30.00135
V	-30.014	-29.987	LC->LC 18 Bit DRV 30V Range
4502.10001			-0.001352300000001
V	-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V
Range : -30.00			
4502.10002			-15.00178
V	-15.01	-14.99	LC->LC 18 Bit DRV 30V Range
4502.10003			-0.001778099999999
V	-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V
Range : -15.00			
4502.10004			0.00054
V	-0.006	0.006	LC->LC 18 Bit DRV 30V Range
4502.10005			0.000535947620000
V	-0.006	0.006	Delta : LC->LC 18 Bit DRV 30V
Range : 0.00			
4502.10006			15.00129
V	14.99	15.01	LC->LC 18 Bit DRV 30V Range
4502.10007			0.001288900000000
V	-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V
Range : 15.00			

4502.10008 29.99937
V 29.987 30.014 LC->LC 18 Bit DRV 30V Range
4502.10009 -0.000634200000000
V -0.0135 0.0135 Delta : LC->LC 18 Bit DRV 30V
Range : 30.00
4502.10010 -10.00004
V -10.007 -9.9935 LC->LC 18 Bit DRV 10V Range
4502.10011 -0.000041500000000
V -0.0065 0.0065 Delta : LC->LC 18 Bit DRV 10V
Range : -10.00
4502.10012 -5.00036
V -5.0053 -4.9948 LC->LC 18 Bit DRV 10V Range
4502.10013 -0.000364540000000
V -0.00525 0.00525 Delta : LC->LC 18 Bit DRV 10V
Range : -5.00
4502.10014 0.00011
V -0.004 0.004 LC->LC 18 Bit DRV 10V Range
4502.10015 0.000113163998000
V -0.004 0.004 Delta : LC->LC 18 Bit DRV 10V
Range : 0.00
4502.10016 5.00036
V 4.9948 5.0053 LC->LC 18 Bit DRV 10V Range
4502.10017 0.000361680000000
V -0.00525 0.00525 Delta : LC->LC 18 Bit DRV 10V
Range : 5.00
4502.10018 9.99997
V 9.9935 10.007 LC->LC 18 Bit DRV 10V Range
4502.10019 -0.000030990000001
V -0.0065 0.0065 Delta : LC->LC 18 Bit DRV 10V
Range : 10.00
4503.10000 -99.99995
V -100.04 -99.963 LC->LC V/I Mode FV 100V Range
4503.10001 0.000053399999999
V -0.0375 0.0375 Delta : LC->LC V/I Mode FV 100V
Range : -100.00
4503.10002 Exp= -99.99995 Act= -100.00024
V LC->LC V/I Mode MV 100V Range
4503.10003 -0.000290506698576
V -0.0375 0.0375 Delta : LC->LC V/I Mode MV 100V
Range : -100.00

```
4503.10004                                                    -50.00029
V              -50.025          -49.975       LC->LC V/I Mode FV 100V Range
4503.10005                                          -0.000287999999998
V               -0.025            0.025       Delta : LC->LC V/I Mode FV 100V
Range : -50.00
4503.10006                          Exp= -50.00029    Act= -50.00034
V                                         LC->LC V/I Mode MV 100V Range
4503.10007                                          -0.000055046669004
V               -0.025            0.025       Delta : LC->LC V/I Mode MV 100V
Range : -50.00
4503.10008                                                   -0.00025
V              -0.0125           0.0125       LC->LC V/I Mode FV 100V Range
4503.10009                                          -0.000254861370000
V              -0.0125           0.0125       Delta : LC->LC V/I Mode FV 100V
Range : 0.00
4503.10010                          Exp= -0.00025     Act= -0.00026
V                                         LC->LC V/I Mode MV 100V Range
4503.10011                                          -0.000007847093435
V              -0.0125           0.0125       Delta : LC->LC V/I Mode MV 100V
Range : 0.00
4503.10012                                                    50.00006
V               49.975           50.025       LC->LC V/I Mode FV 100V Range
4503.10013                                           0.000055300000000
V               -0.025            0.025       Delta : LC->LC V/I Mode FV 100V
Range : 50.00
4503.10014                          Exp= 50.00006     Act= 50.00057
V                                         LC->LC V/I Mode MV 100V Range
4503.10015                                           0.000516368636198
V               -0.025            0.025       Delta : LC->LC V/I Mode MV 100V
Range : 50.00
4503.10016                                                    99.99922
V               99.963           100.04       LC->LC V/I Mode FV 100V Range
4503.10017                                          -0.000782000000001
V              -0.0375           0.0375       Delta : LC->LC V/I Mode FV 100V
Range : 100.00
4503.10018                          Exp= 99.99922     Act= 100.00000
V                                         LC->LC V/I Mode MV 100V Range
4503.10019                                           0.000784591115703
V              -0.0375           0.0375       Delta : LC->LC V/I Mode MV 100V
Range : 100.00
```

```
4503.10020                                                    -29.99999
V                -30.01          -29.99       LC->LC V/I Mode FV 30V Range
4503.10021                                          0.000010499999998
V                 -0.01            0.01       Delta : LC->LC V/I Mode FV 30V
Range : -30.00
4503.10022                          Exp= -29.99999    Act= -29.99991
V                                               LC->LC V/I Mode MV 30V Range
4503.10023                                          0.000079704639948
V                 -0.01            0.01       Delta : LC->LC V/I Mode MV 30V
Range : -30.00
4503.10024                                                    -15.00012
V              -15.006          -14.994       LC->LC V/I Mode FV 30V Range
4503.10025                                         -0.000117299999999
V              -0.00625         0.00625       Delta : LC->LC V/I Mode FV 30V
Range : -15.00
4503.10026                          Exp= -15.00012    Act= -15.00004
V                                               LC->LC V/I Mode MV 30V Range
4503.10027                                          0.000077237768854
V              -0.00625         0.00625       Delta : LC->LC V/I Mode MV 30V
Range : -15.00
4503.10028                                                    -0.00002
V               -0.0025           0.0025       LC->LC V/I Mode FV 30V Range
4503.10029                                         -0.000015143936700
V               -0.0025           0.0025       Delta : LC->LC V/I Mode FV 30V
Range : 0.00
4503.10030                          Exp= -0.00002     Act= -0.00004
V                                               LC->LC V/I Mode MV 30V Range
4503.10031                                         -0.000021565639851
V               -0.0025           0.0025       Delta : LC->LC V/I Mode MV 30V
Range : 0.00
4503.10032                                                    15.00009
V                14.994           15.006       LC->LC V/I Mode FV 30V Range
4503.10033                                          0.000086800000000
V              -0.00625         0.00625       Delta : LC->LC V/I Mode FV 30V
Range : 15.00
4503.10034                          Exp= 15.00009     Act= 15.00018
V                                               LC->LC V/I Mode MV 30V Range
4503.10035                                          0.000091416871342
V              -0.00625         0.00625       Delta : LC->LC V/I Mode MV 30V
Range : 15.00
```

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4503.10036                                                    29.99983
V                29.99          30.01       LC->LC V/I Mode FV 30V Range
4503.10037                                          -0.000172599999999
V                -0.01           0.01       Delta : LC->LC V/I Mode FV 30V
Range : 30.00
4503.10038                          Exp= 29.99983    Act= 29.99996
V                                          LC->LC V/I Mode MV 30V Range
4503.10039                                           0.000129318573983
V                -0.01           0.01       Delta : LC->LC V/I Mode MV 30V
Range : 30.00
4503.10040                                                   -10.00003
V             -10.003         -9.9967       LC->LC V/I Mode FV 10V Range
4503.10041                                          -0.000027200000000
V              -0.0033          0.0033       Delta : LC->LC V/I Mode FV 10V
Range : -10.00
4503.10042                          Exp= -10.00003   Act= -10.00006
V                                          LC->LC V/I Mode MV 10V Range
4503.10043                                          -0.000037762402751
V              -0.0033          0.0033       Delta : LC->LC V/I Mode MV 10V
Range : -10.00
4503.10044                                                    -5.00002
V              -5.0021           -4.998       LC->LC V/I Mode FV 10V Range
4503.10045                                          -0.000017400000000
V             -0.00205         0.00205       Delta : LC->LC V/I Mode FV 10V
Range : -5.00
4503.10046                          Exp= -5.00002    Act= -5.00000
V                                          LC->LC V/I Mode MV 10V Range
4503.10047                                           0.000019528916490
V             -0.00205         0.00205       Delta : LC->LC V/I Mode MV 10V
Range : -5.00
4503.10048                                                    -0.00002
V              -0.0008          0.0008       LC->LC V/I Mode FV 10V Range
4503.10049                                          -0.000022876322000
V              -0.0008          0.0008       Delta : LC->LC V/I Mode FV 10V
Range : 0.00
4503.10050                          Exp= -0.00002    Act= 0.00001
V                                          LC->LC V/I Mode MV 10V Range
4503.10051                                           0.000030564477421
V              -0.0008          0.0008       Delta : LC->LC V/I Mode MV 10V
Range : 0.00
```

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4503.10052                                                    5.00000
V                4.998          5.0021       LC->LC V/I Mode FV 10V Range
4503.10053                                          -0.000001430000000
V              -0.00205         0.00205      Delta : LC->LC V/I Mode FV 10V
Range : 5.00
4503.10054                          Exp= 5.00000     Act= 5.00004
V                                          LC->LC V/I Mode MV 10V Range
4503.10055                                           0.000037585657120
V              -0.00205         0.00205      Delta : LC->LC V/I Mode MV 10V
Range : 5.00
4503.10056                                                    9.99997
V               9.9967          10.003       LC->LC V/I Mode FV 10V Range
4503.10057                                          -0.000026699999999
V               -0.0033          0.0033       Delta : LC->LC V/I Mode FV 10V
Range : 10.00
4503.10058                          Exp= 9.99997     Act= 9.99999
V                                          LC->LC V/I Mode MV 10V Range
4503.10059                                           0.000021669397238
V               -0.0033          0.0033       Delta : LC->LC V/I Mode MV 10V
Range : 10.00
4503.10060                                                   -74.99948
V              -75.031          -74.969       HC->HC V/I Mode FV 75V Range
4503.10061                                           0.000518799999995
V              -0.03125         0.03125      Delta : HC->HC V/I Mode FV 75V
Range : -75.00
4503.10062                          Exp= -74.99948   Act= -74.99988
V                                          HC->HC V/I Mode MV 75V Range
4503.10063                                          -0.000394192056547
V              -0.03125         0.03125      Delta : HC->HC V/I Mode MV 75V
Range : -75.00
4503.10064                                                   -37.50010
V              -37.522          -37.478       HC->HC V/I Mode FV 75V Range
4503.10065                                          -0.000103000000003
V             -0.021875        0.021875      Delta : HC->HC V/I Mode FV 75V
Range : -37.50
4503.10066                          Exp= -37.50010   Act= -37.50011
V                                          HC->HC V/I Mode MV 75V Range
4503.10067                                          -0.000007265070529
V             -0.021875        0.021875      Delta : HC->HC V/I Mode MV 75V
Range : -37.50
```

4503.10068 -0.00012
V -0.0125 0.0125 HC->HC V/I Mode FV 75V Range
4503.10069 -0.000124106409000
V -0.0125 0.0125 Delta : HC->HC V/I Mode FV 75V Range : 0.00
4503.10070 Exp= -0.00012 Act= -0.00006
V HC->HC V/I Mode MV 75V Range
4503.10071 0.000066188992687
V -0.0125 0.0125 Delta : HC->HC V/I Mode MV 75V Range : 0.00
4503.10072 37.50013
V 37.478 37.522 HC->HC V/I Mode FV 75V Range
4503.10073 0.000127800000001
V -0.021875 0.021875 Delta : HC->HC V/I Mode FV 75V Range : 37.50
4503.10074 Exp= 37.50013 Act= 37.50041
V HC->HC V/I Mode MV 75V Range
4503.10075 0.000283622575708
V -0.021875 0.021875 Delta : HC->HC V/I Mode MV 75V Range : 37.50
4503.10076 74.99982
V 74.969 75.031 HC->HC V/I Mode FV 75V Range
4503.10077 -0.000183100000001
V -0.03125 0.03125 Delta : HC->HC V/I Mode FV 75V Range : 75.00
4503.10078 Exp= 74.99982 Act= 74.99998
V HC->HC V/I Mode MV 75V Range
4503.10079 0.000166896343430
V -0.03125 0.03125 Delta : HC->HC V/I Mode MV 75V Range : 75.00
4503.10080 -29.99996
V -30.01 -29.99 HC->HC V/I Mode FV 30V Range
4503.10081 0.000042900000000
V -0.01 0.01 Delta : HC->HC V/I Mode FV 30V Range : -30.00
4503.10082 Exp= -29.99996 Act= -30.00008
V HC->HC V/I Mode MV 30V Range
4503.10083 -0.000119831869927
V -0.01 0.01 Delta : HC->HC V/I Mode MV 30V Range : -30.00

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4503.10084                                                    -15.00007
V              -15.006          -14.994       HC->HC V/I Mode FV 30V Range
4503.10085                                          -0.000069099999999
V              -0.00625          0.00625       Delta : HC->HC V/I Mode FV 30V
Range : -15.00
4503.10086                          Exp= -15.00007    Act= -15.00002
V                                               HC->HC V/I Mode MV 30V Range
4503.10087                                           0.000044288302872
V              -0.00625          0.00625       Delta : HC->HC V/I Mode MV 30V
Range : -15.00
4503.10088                                                   -0.00003
V               -0.0025           0.0025       HC->HC V/I Mode FV 30V Range
4503.10089                                          -0.000032873424100
V               -0.0025           0.0025       Delta : HC->HC V/I Mode FV 30V
Range : 0.00
4503.10090                          Exp= -0.00003     Act= 0.00007
V                                               HC->HC V/I Mode MV 30V Range
4503.10091                                           0.000105278662828
V               -0.0025           0.0025       Delta : HC->HC V/I Mode MV 30V
Range : 0.00
4503.10092                                                    15.00010
V                14.994            15.006       HC->HC V/I Mode FV 30V Range
4503.10093                                           0.000095800000000
V              -0.00625          0.00625       Delta : HC->HC V/I Mode FV 30V
Range : 15.00
4503.10094                          Exp= 15.00010     Act= 15.00016
V                                               HC->HC V/I Mode MV 30V Range
4503.10095                                           0.000065324676761
V              -0.00625          0.00625       Delta : HC->HC V/I Mode MV 30V
Range : 15.00
4503.10096                                                    29.99986
V                29.99             30.01       HC->HC V/I Mode FV 30V Range
4503.10097                                          -0.000139200000000
V                -0.01              0.01       Delta : HC->HC V/I Mode FV 30V
Range : 30.00
4503.10098                          Exp= 29.99986     Act= 29.99994
V                                               HC->HC V/I Mode MV 30V Range
4503.10099                                           0.000083342909363
V                -0.01              0.01       Delta : HC->HC V/I Mode MV 30V
Range : 30.00
```

4503.10100 -10.00002
V -10.003 -9.9967 HC->HC V/I Mode FV 10V Range
4503.10101 -0.000023799999999
V -0.0033 0.0033 Delta : HC->HC V/I Mode FV 10V
Range : -10.00
4503.10102 Exp= -10.00002 Act= -10.00002
V HC->HC V/I Mode MV 10V Range
4503.10103 0.000001242996408
V -0.0033 0.0033 Delta : HC->HC V/I Mode MV 10V
Range : -10.00
4503.10104 -5.00002
V -5.0021 -4.998 HC->HC V/I Mode FV 10V Range
4503.10105 -0.000020030000000
V -0.00205 0.00205 Delta : HC->HC V/I Mode FV 10V
Range : -5.00
4503.10106 Exp= -5.00002 Act= -5.00001
V HC->HC V/I Mode MV 10V Range
4503.10107 0.000006946847538
V -0.00205 0.00205 Delta : HC->HC V/I Mode MV 10V
Range : -5.00
4503.10108 -0.00002
V -0.0008 0.0008 HC->HC V/I Mode FV 10V Range
4503.10109 -0.000024831878400
V -0.0008 0.0008 Delta : HC->HC V/I Mode FV 10V
Range : 0.00
4503.10110 Exp= -0.00002 Act= -0.00003
V HC->HC V/I Mode MV 10V Range
4503.10111 -0.000005799259972
V -0.0008 0.0008 Delta : HC->HC V/I Mode MV 10V
Range : 0.00
4503.10112 4.99999
V 4.998 5.0021 HC->HC V/I Mode FV 10V Range
4503.10113 -0.000007630000000
V -0.00205 0.00205 Delta : HC->HC V/I Mode FV 10V
Range : 5.00
4503.10114 Exp= 4.99999 Act= 5.00002
V HC->HC V/I Mode MV 10V Range
4503.10115 0.000031484760203
V -0.00205 0.00205 Delta : HC->HC V/I Mode MV 10V
Range : 5.00

4503.10116 9.99997
V 9.9967 10.003 HC->HC V/I Mode FV 10V Range
4503.10117 -0.000033860000000
V -0.0033 0.0033 Delta : HC->HC V/I Mode FV 10V
Range : 10.00
4503.10118 Exp= 9.99997 Act= 9.99996
V HC->HC V/I Mode MV 10V Range
4503.10119 -0.000010631799841
V -0.0033 0.0033 Delta : HC->HC V/I Mode MV 10V
Range : 10.00
4503.10120 HC relays OK
DIB HC Relays Check
4503.10121 0
status 0 DIB HC Relays Check
4504.11000 HC relays verified
DIB HC Relays Check
4504.11001 0
status 0 DIB HC Relays Check
4504.11002 -499.99404
mA -500.38 -499.63 LC->LC FI 100V Range 500mA
4504.11003 0.005960000000016
mA -0.375 0.375 Delta : LC->LC FI 100V Range
500mA : -500.00
4504.11004 Exp= -499.99404 Act= -500.00313
mA LC->LC MI 100V Range 500mA
4504.11005 -0.009092166865912
mA -0.375 0.375 Delta : LC->LC MI 100V Range
500mA : -500.00
4504.11006 -249.99142
mA -250.25 -249.75 LC->LC FI 100V Range 500mA
4504.11007 0.008583000000016
mA -0.25 0.25 Delta : LC->LC FI 100V Range
500mA : -250.00
4504.11008 Exp= -249.99142 Act= -249.99682
mA LC->LC MI 100V Range 500mA
4504.11009 -0.005401504739524
mA -0.25 0.25 Delta : LC->LC MI 100V Range
500mA : -250.00
4504.11010 0.00460
mA -0.125 0.125 LC->LC FI 100V Range 500mA

4504.11011 0.004602802850000
mA -0.125 0.125 Delta : LC->LC FI 100V Range 500mA : 0.00
4504.11012 Exp= 0.00460 Act= 0.00034
mA LC->LC MI 100V Range 500mA
4504.11013 -0.004260813909551
mA -0.125 0.125 Delta : LC->LC MI 100V Range 500mA : 0.00
4504.11014 250.00526
mA 249.75 250.25 LC->LC FI 100V Range 500mA
4504.11015 0.005260000000021
mA -0.25 0.25 Delta : LC->LC FI 100V Range 500mA : 250.00
4504.11016 Exp= 250.00526 Act= 250.00329
mA LC->LC MI 100V Range 500mA
4504.11017 -0.001968706425089
mA -0.25 0.25 Delta : LC->LC MI 100V Range 500mA : 250.00
4504.11018 500.00328
mA 499.63 500.38 LC->LC FI 100V Range 500mA
4504.11019 0.003278000000023
mA -0.375 0.375 Delta : LC->LC FI 100V Range 500mA : 500.00
4504.11020 Exp= 500.00328 Act= 499.99832
mA LC->LC MI 100V Range 500mA
4504.11021 -0.004956322866406
mA -0.375 0.375 Delta : LC->LC MI 100V Range 500mA : 500.00
4504.11022 -949.99057
mA -950.6 -949.4 LC->LC FI 30V Range 1A
4504.11023 0.009429000000068
mA -0.6 0.6 Delta : LC->LC FI 30V Range 1A : -950.00
4504.11024 Exp= -949.99057 Act= -950.00561
mA LC->LC MI 30V Range 1A
4504.11025 -0.015042847527639
mA -0.6 0.6 Delta : LC->LC MI 30V Range 1A : -950.00
4504.11026 -474.98976
mA -475.36 -474.64 LC->LC FI 30V Range 1A

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4504.11027                                                  0.010243000000003
mA              -0.3625          0.3625       Delta : LC->LC FI 30V Range
1A : -475.00
4504.11028                  Exp= -474.98976  Act= -474.99163
mA                                    LC->LC MI 30V Range 1A
4504.11029                                   -0.001876245742778
mA              -0.3625          0.3625       Delta : LC->LC MI 30V Range
1A : -475.00
4504.11030                                                  0.00476
mA               -0.125           0.125       LC->LC FI 30V Range 1A
4504.11031                                    0.004756229490000
mA               -0.125           0.125       Delta : LC->LC FI 30V Range
1A : 0.00
4504.11032                  Exp= 0.00476     Act= 0.00737
mA                                    LC->LC MI 30V Range 1A
4504.11033                                    0.002614254261294
mA               -0.125           0.125       Delta : LC->LC MI 30V Range
1A : 0.00
4504.11034                                                  475.01151
mA                474.64          475.36       LC->LC FI 30V Range 1A
4504.11035                                    0.011512999999980
mA              -0.3625          0.3625       Delta : LC->LC FI 30V Range
1A : 475.00
4504.11036                  Exp= 475.01151   Act= 475.01195
mA                                    LC->LC MI 30V Range 1A
4504.11037                                    0.000434565316937
mA              -0.3625          0.3625       Delta : LC->LC MI 30V Range
1A : 475.00
4504.11038                                                  950.00234
mA                949.4          950.6        LC->LC FI 30V Range 1A
4504.11039                                    0.002341999999999
mA                 -0.6            0.6        Delta : LC->LC FI 30V Range
1A : 950.00
4504.11040                  Exp= 950.00234   Act= 950.00137
mA                                    LC->LC MI 30V Range 1A
4504.11041                                   -0.000975091430064
mA                 -0.6            0.6        Delta : LC->LC MI 30V Range
1A : 950.00
4504.11042                                                  -99.99923
mA              -100.06          -99.938      LC->LC FI 30V Range 100mA
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4504.11043                                                  0.000769599999998
mA              -0.0625             0.0625       Delta : LC->LC FI 30V Range
100mA : -100.00
4504.11044                      Exp= -99.99923   Act= -99.99998
mA                                       LC->LC MI 30V Range 100mA
4504.11045                                        -0.000745400095624
mA              -0.0625             0.0625       Delta : LC->LC MI 30V Range
100mA : -100.00
4504.11046                                                  -49.99945
mA              -50.038            -49.963       LC->LC FI 30V Range 100mA
4504.11047                                         0.000552499999998
mA              -0.0375             0.0375       Delta : LC->LC FI 30V Range
100mA : -50.00
4504.11048                      Exp= -49.99945   Act= -49.99984
mA                                       LC->LC MI 30V Range 100mA
4504.11049                                        -0.000389033323614
mA              -0.0375             0.0375       Delta : LC->LC MI 30V Range
100mA : -50.00
4504.11050                                                   0.00028
mA              -0.0125             0.0125       LC->LC FI 30V Range 100mA
4504.11051                                         0.000280611410000
mA              -0.0125             0.0125       Delta : LC->LC FI 30V Range
100mA : 0.00
4504.11052                      Exp= 0.00028     Act= 0.00037
mA                                       LC->LC MI 30V Range 100mA
4504.11053                                         0.000088522886293
mA              -0.0125             0.0125       Delta : LC->LC MI 30V Range
100mA : 0.00
4504.11054                                                   50.00097
mA               49.963             50.038       LC->LC FI 30V Range 100mA
4504.11055                                         0.000972999999995
mA              -0.0375             0.0375       Delta : LC->LC FI 30V Range
100mA : 50.00
4504.11056                      Exp= 50.00097    Act= 50.00087
mA                                       LC->LC MI 30V Range 100mA
4504.11057                                        -0.000107111705283
mA              -0.0375             0.0375       Delta : LC->LC MI 30V Range
100mA : 50.00
4504.11058                                                   100.00023
mA               99.938             100.06       LC->LC FI 30V Range 100mA
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4504.11059                                                  0.000231999999997
mA              -0.0625          0.0625       Delta : LC->LC FI 30V Range
100mA : 100.00
4504.11060                        Exp= 100.00023   Act= 99.99999
mA                                          LC->LC MI 30V Range 100mA
4504.11061                                        -0.000242912447405
mA              -0.0625          0.0625       Delta : LC->LC MI 30V Range
100mA : 100.00
4504.11062                                                  -9.99994
mA              -10.006          -9.9938      LC->LC FI 30V Range 10mA
4504.11063                                         0.000057500000000
mA              -0.00625         0.00625      Delta : LC->LC FI 30V Range
10mA : -10.00
4504.11064                        Exp= -9.99994    Act= -9.99996
mA                                          LC->LC MI 30V Range 10mA
4504.11065                                       -0.000017917978077
mA              -0.00625         0.00625      Delta : LC->LC MI 30V Range
10mA : -10.00
4504.11066                                                  -5.00001
mA              -5.0038          -4.9963      LC->LC FI 30V Range 10mA
4504.11067                                       -0.000005480000000
mA              -0.00375         0.00375      Delta : LC->LC FI 30V Range
10mA : -5.00
4504.11068                        Exp= -5.00001    Act= -5.00003
mA                                          LC->LC MI 30V Range 10mA
4504.11069                                       -0.000021048293450
mA              -0.00375         0.00375      Delta : LC->LC MI 30V Range
10mA : -5.00
4504.11070                                                   0.00006
mA              -0.00125         0.00125      LC->LC FI 30V Range 10mA
4504.11071                                         0.000059710664900
mA              -0.00125         0.00125      Delta : LC->LC FI 30V Range
10mA : 0.00
4504.11072                        Exp= 0.00006     Act= 0.00007
mA                                          LC->LC MI 30V Range 10mA
4504.11073                                         0.000006040377482
mA              -0.00125         0.00125      Delta : LC->LC MI 30V Range
10mA : 0.00
4504.11074                                                   5.00010
mA                4.9963          5.0038       LC->LC FI 30V Range 10mA
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4504.11075                                                  0.000103730000000
mA              -0.00375            0.00375       Delta : LC->LC FI 30V Range
10mA : 5.00
4504.11076                        Exp= 5.00010      Act= 5.00008
mA                                          LC->LC MI 30V Range 10mA
4504.11077                                        -0.000025374951278
mA              -0.00375            0.00375       Delta : LC->LC MI 30V Range
10mA : 5.00
4504.11078                                                  10.00005
mA                9.9938             10.006       LC->LC FI 30V Range 10mA
4504.11079                                         0.000051500000001
mA              -0.00625            0.00625       Delta : LC->LC FI 30V Range
10mA : 10.00
4504.11080                        Exp= 10.00005     Act= 9.99992
mA                                          LC->LC MI 30V Range 10mA
4504.11081                                        -0.000135145430718
mA              -0.00625            0.00625       Delta : LC->LC MI 30V Range
10mA : 10.00
4504.11082                                                  -1.00000
mA               -1.0006           -0.99938       LC->LC FI 30V Range 1mA
4504.11083                                        -0.000002080000000
mA             -0.000625           0.000625       Delta : LC->LC FI 30V Range
1mA : -1.00
4504.11084                        Exp= -1.00000     Act= -1.00000
mA                                          LC->LC MI 30V Range 1mA
4504.11085                                        -0.000000578706549
mA             -0.000625           0.000625       Delta : LC->LC MI 30V Range
1mA : -1.00
4504.11086                                                  -0.49999
mA              -0.50038           -0.49963       LC->LC FI 30V Range 1mA
4504.11087                                         0.000005593000000
mA             -0.000375           0.000375       Delta : LC->LC FI 30V Range
1mA : -0.50
4504.11088                        Exp= -0.49999     Act= -0.49999
mA                                          LC->LC MI 30V Range 1mA
4504.11089                                         0.000002493928439
mA             -0.000375           0.000375       Delta : LC->LC MI 30V Range
1mA : -0.50
4504.11090                                                   0.00000
mA             -0.000125           0.000125       LC->LC FI 30V Range 1mA
```

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4504.11091                                                  0.000003068218960
mA          -0.000125          0.000125       Delta : LC->LC FI 30V Range
1mA : 0.00
4504.11092                          Exp= 0.00000      Act= 0.00000
mA                                        LC->LC MI 30V Range 1mA
4504.11093                                              0.000000021693204
mA          -0.000125          0.000125       Delta : LC->LC MI 30V Range
1mA : 0.00
4504.11094                                                      0.50001
mA            0.49963            0.50038       LC->LC FI 30V Range 1mA
4504.11095                                              0.000007096000000
mA          -0.000375          0.000375       Delta : LC->LC FI 30V Range
1mA : 0.50
4504.11096                          Exp= 0.50001      Act= 0.50000
mA                                        LC->LC MI 30V Range 1mA
4504.11097                                             -0.000002691202894
mA          -0.000375          0.000375       Delta : LC->LC MI 30V Range
1mA : 0.50
4504.11098                                                      1.00000
mA            0.99938             1.0006       LC->LC FI 30V Range 1mA
4504.11099                                              0.000001390000000
mA          -0.000625          0.000625       Delta : LC->LC FI 30V Range
1mA : 1.00
4504.11100                          Exp= 1.00000      Act= 1.00000
mA                                        LC->LC MI 30V Range 1mA
4504.11101                                            -0.000000830196162
mA          -0.000625          0.000625       Delta : LC->LC MI 30V Range
1mA : 1.00
4504.11102                                                    -949.99620
mA            -950.73            -949.28       LC->LC FI 10V Range 2A
4504.11103                                              0.003796999999963
mA             -0.725              0.725       Delta : LC->LC FI 10V Range
2A : -950.00
4504.11104                          Exp= -949.99620  Act= -949.98611
mA                                        LC->LC MI 10V Range 2A
4504.11105                                              0.010093534312773
mA             -0.725              0.725       Delta : LC->LC MI 10V Range
2A : -950.00
4504.11106                                                    -474.99459
mA            -475.49            -474.51       LC->LC FI 10V Range 2A
```

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4504.11107                                                  0.005414999999971
mA              -0.4875          0.4875       Delta : LC->LC FI 10V Range
2A : -475.00
4504.11108                        Exp= -474.99459  Act= -474.97894
mA                                          LC->LC MI 10V Range 2A
4504.11109                                             0.015642151083853
mA              -0.4875          0.4875       Delta : LC->LC MI 10V Range
2A : -475.00
4504.11110                                                    -0.00552
mA                -0.25            0.25       LC->LC FI 10V Range 2A
4504.11111                                          -0.005523363140000
mA                -0.25            0.25       Delta : LC->LC FI 10V Range
2A : 0.00
4504.11112                        Exp= -0.00552    Act= 0.00608
mA                                          LC->LC MI 10V Range 2A
4504.11113                                             0.011607301214409
mA                -0.25            0.25       Delta : LC->LC MI 10V Range
2A : 0.00
4504.11114                                                   474.99751
mA               474.51           475.49       LC->LC FI 10V Range 2A
4504.11115                                          -0.002494000000013
mA              -0.4875          0.4875       Delta : LC->LC FI 10V Range
2A : 475.00
4504.11116                        Exp= 474.99751   Act= 475.00767
mA                                          LC->LC MI 10V Range 2A
4504.11117                                             0.010162863730329
mA              -0.4875          0.4875       Delta : LC->LC MI 10V Range
2A : 475.00
4504.11118                                                   949.99474
mA               949.28           950.73       LC->LC FI 10V Range 2A
4504.11119                                          -0.005257000000029
mA                -0.725           0.725       Delta : LC->LC FI 10V Range
2A : 950.00
4504.11120                        Exp= 949.99474   Act= 950.00620
mA                                          LC->LC MI 10V Range 2A
4504.11121                                             0.011456692031743
mA                -0.725           0.725       Delta : LC->LC MI 10V Range
2A : 950.00
4504.11122                                                  -199.99915
mA              -200.13          -199.88       LC->LC FI 10V Range 200mA
```

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4504.11123                                                  0.000854000000004
mA              -0.125              0.125       Delta : LC->LC FI 10V Range
200mA : -200.00
4504.11124                      Exp= -199.99915  Act= -200.00119
mA                                      LC->LC MI 10V Range 200mA
4504.11125                                        -0.002046137474565
mA              -0.125              0.125       Delta : LC->LC MI 10V Range
200mA : -200.00
4504.11126                                                  -99.99746
mA             -100.08             -99.925      LC->LC FI 10V Range 200mA
4504.11127                                         0.002535399999999
mA              -0.075              0.075       Delta : LC->LC FI 10V Range
200mA : -100.00
4504.11128                      Exp= -99.99746   Act= -99.99913
mA                                      LC->LC MI 10V Range 200mA
4504.11129                                        -0.001666996390369
mA              -0.075              0.075       Delta : LC->LC MI 10V Range
200mA : -100.00
4504.11130                                                  0.00100
mA              -0.025              0.025       LC->LC FI 10V Range 200mA
4504.11131                                         0.000997273901000
mA              -0.025              0.025       Delta : LC->LC FI 10V Range
200mA : 0.00
4504.11132                      Exp= 0.00100     Act= -0.00008
mA                                      LC->LC MI 10V Range 200mA
4504.11133                                        -0.001077302348030
mA              -0.025              0.025       Delta : LC->LC MI 10V Range
200mA : 0.00
4504.11134                                                  100.00007
mA              99.925              100.08      LC->LC FI 10V Range 200mA
4504.11135                                         0.000071999999989
mA              -0.075              0.075       Delta : LC->LC FI 10V Range
200mA : 100.00
4504.11136                      Exp= 100.00007   Act= 100.00036
mA                                      LC->LC MI 10V Range 200mA
4504.11137                                         0.000289131595210
mA              -0.075              0.075       Delta : LC->LC MI 10V Range
200mA : 100.00
4504.11138                                                  200.00033
mA              199.88              200.13      LC->LC FI 10V Range 200mA
```

4504.11139 0.000331000000017
mA -0.125 0.125 Delta : LC->LC FI 10V Range 200mA : 200.00
4504.11140 Exp= 200.00033 Act= 200.00146
mA LC->LC MI 10V Range 200mA
4504.11141 0.001129425101595
mA -0.125 0.125 Delta : LC->LC MI 10V Range 200mA : 200.00
4504.11142 -20.00004
mA -20.013 -19.988 LC->LC FI 10V Range 20mA
4504.11143 -0.000039599999997
mA -0.0125 0.0125 Delta : LC->LC FI 10V Range 20mA : -20.00
4504.11144 Exp= -20.00004 Act= -20.00004
mA LC->LC MI 10V Range 20mA
4504.11145 -0.000002768756762
mA -0.0125 0.0125 Delta : LC->LC MI 10V Range 20mA : -20.00
4504.11146 -10.00006
mA -10.008 -9.9925 LC->LC FI 10V Range 20mA
4504.11147 -0.000057999999999
mA -0.0075 0.0075 Delta : LC->LC FI 10V Range 20mA : -10.00
4504.11148 Exp= -10.00006 Act= -9.99985
mA LC->LC MI 10V Range 20mA
4504.11149 0.000210532466657
mA -0.0075 0.0075 Delta : LC->LC MI 10V Range 20mA : -10.00
4504.11150 0.00035
mA -0.0025 0.0025 LC->LC FI 10V Range 20mA
4504.11151 0.000347423629000
mA -0.0025 0.0025 Delta : LC->LC FI 10V Range 20mA : 0.00
4504.11152 Exp= 0.00035 Act= 0.00011
mA LC->LC MI 10V Range 20mA
4504.11153 -0.000237068648521
mA -0.0025 0.0025 Delta : LC->LC MI 10V Range 20mA : 0.00
4504.11154 10.00016
mA 9.9925 10.008 LC->LC FI 10V Range 20mA

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4504.11155                                                  0.000161800000001
mA              -0.0075             0.0075       Delta : LC->LC FI 10V Range
20mA : 10.00
4504.11156                      Exp= 10.00016    Act= 10.00013
mA                                       LC->LC MI 10V Range 20mA
4504.11157                                        -0.000031271894978
mA              -0.0075             0.0075       Delta : LC->LC MI 10V Range
20mA : 10.00
4504.11158                                                  20.00000
mA               19.988             20.013       LC->LC FI 10V Range 20mA
4504.11159                                        -0.000000400000001
mA              -0.0125             0.0125       Delta : LC->LC FI 10V Range
20mA : 20.00
4504.11160                      Exp= 20.00000    Act= 19.99993
mA                                       LC->LC MI 10V Range 20mA
4504.11161                                        -0.000074131025976
mA              -0.0125             0.0125       Delta : LC->LC MI 10V Range
20mA : 20.00
4504.11162                                                  -2.00000
mA              -2.0013            -1.9988       LC->LC FI 10V Range 2mA
4504.11163                                         0.000000020000000
mA             -0.00125            0.00125       Delta : LC->LC FI 10V Range
2mA : -2.00
4504.11164                      Exp= -2.00000    Act= -1.99999
mA                                       LC->LC MI 10V Range 2mA
4504.11165                                         0.000006520033138
mA             -0.00125            0.00125       Delta : LC->LC MI 10V Range
2mA : -2.00
4504.11166                                                  -1.00002
mA              -1.0008            -0.99925       LC->LC FI 10V Range 2mA
4504.11167                                        -0.000019430000000
mA             -0.00075            0.00075       Delta : LC->LC FI 10V Range
2mA : -1.00
4504.11168                      Exp= -1.00002    Act= -0.99999
mA                                       LC->LC MI 10V Range 2mA
4504.11169                                         0.000030309741578
mA             -0.00075            0.00075       Delta : LC->LC MI 10V Range
2mA : -1.00
4504.11170                                                  -0.00002
mA             -0.00025            0.00025       LC->LC FI 10V Range 2mA
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4504.11171                                                  -0.000021033610500
mA            -0.00025          0.00025       Delta : LC->LC FI 10V Range
2mA : 0.00
4504.11172                        Exp= -0.00002     Act= 0.00001
mA                                      LC->LC MI 10V Range 2mA
4504.11173                                       0.000029182279792
mA            -0.00025          0.00025       Delta : LC->LC MI 10V Range
2mA : 0.00
4504.11174                                                  1.00000
mA             0.99925           1.0008       LC->LC FI 10V Range 2mA
4504.11175                                     -0.000003678000000
mA            -0.00075          0.00075       Delta : LC->LC FI 10V Range
2mA : 1.00
4504.11176                        Exp= 1.00000      Act= 1.00001
mA                                      LC->LC MI 10V Range 2mA
4504.11177                                       0.000014039437050
mA            -0.00075          0.00075       Delta : LC->LC MI 10V Range
2mA : 1.00
4504.11178                                                  1.99999
mA              1.9988            2.0013       LC->LC FI 10V Range 2mA
4504.11179                                     -0.000006540000000
mA            -0.00125          0.00125       Delta : LC->LC FI 10V Range
2mA : 2.00
4504.11180                        Exp= 1.99999      Act= 2.00000
mA                                      LC->LC MI 10V Range 2mA
4504.11181                                       0.000006051929963
mA            -0.00125          0.00125       Delta : LC->LC MI 10V Range
2mA : 2.00
4504.11182                         Chk RSense100A =   2.00390 mOhms
4504.11183                                                       0
status                                 0
4504.11184                                                 -30.00062
mA              -60.15             0.15       HC->HC FI 10V Range 100A
4504.11185                                     -0.000622140267691
mA              -30.15            30.15       Delta : HC->HC FI 10V Range
100A : -30.00
4504.11186                        Exp= -30.00062    Act= -30.00017
mA                                      HC->HC MI 10V Range 100A
4504.11187                                       0.000454261441455
mA              -30.15            30.15       Delta : HC->HC MI 10V Range
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100A : -30.00
4504.11188 -14.98992
mA -45.075 15.075 HC->HC FI 10V Range 100A
4504.11189 0.010076332073158
mA -30.075 30.075 Delta : HC->HC FI 10V Range
100A : -15.00
4504.11190 Exp= -14.98992 Act= -15.00018
mA HC->HC MI 10V Range 100A
4504.11191 -0.010255874230710
mA -30.075 30.075 Delta : HC->HC MI 10V Range
100A : -15.00
4504.11192 0.00000
mA -30 30 HC->HC FI 10V Range 100A
4504.11193 0.000000000000000
mA -30 30 Delta : HC->HC FI 10V Range
100A : 0.00
4504.11194 Exp= 0.00000 Act= 0.00093
mA HC->HC MI 10V Range 100A
4504.11195 0.000930053762627
mA -30 30 Delta : HC->HC MI 10V Range
100A : 0.00
4504.11196 15.00463
mA -15.075 45.075 HC->HC FI 10V Range 100A
4504.11197 0.004629321579817
mA -30.075 30.075 Delta : HC->HC FI 10V Range
100A : 15.00
4504.11198 Exp= 15.00463 Act= 15.00080
mA HC->HC MI 10V Range 100A
4504.11199 -0.003825078438286
mA -30.075 30.075 Delta : HC->HC MI 10V Range
100A : 15.00
4504.11200 30.00183
mA -0.15 60.15 HC->HC FI 10V Range 100A
4504.11201 0.001826781085615
mA -30.15 30.15 Delta : HC->HC FI 10V Range
100A : 30.00
4504.11202 Exp= 30.00183 Act= 29.99999
mA HC->HC MI 10V Range 100A
4504.11203 -0.001840840693429
mA -30.15 30.15 Delta : HC->HC MI 10V Range

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100A : 30.00
4504.11204                                                    -949.92119
mA              -957.75          -942.25       HC->HC FI 75V Range 10A
4504.11205                                          0.078808999999978
mA                -7.75             7.75       Delta : HC->HC FI 75V Range
10A : -950.00
4504.11206                        Exp= -949.92119  Act= -949.89760
mA                                       HC->HC MI 75V Range 10A
4504.11207                                          0.023586690169964
mA                -7.75             7.75       Delta : HC->HC MI 75V Range
10A : -950.00
4504.11208                                                    -475.18191
mA              -480.38          -469.63       HC->HC FI 75V Range 10A
4504.11209                                         -0.181907000000024
mA                -5.375            5.375       Delta : HC->HC FI 75V Range
10A : -475.00
4504.11210                        Exp= -475.18191  Act= -475.01196
mA                                       HC->HC MI 75V Range 10A
4504.11211                                          0.169951794437907
mA                -5.375            5.375       Delta : HC->HC MI 75V Range
10A : -475.00
4504.11212                                                      -0.11398
mA                   -3                3       HC->HC FI 75V Range 10A
4504.11213                                        -0.113980738000000
mA                   -3                3       Delta : HC->HC FI 75V Range
10A : 0.00
4504.11214                        Exp= -0.11398    Act= -0.00735
mA                                       HC->HC MI 75V Range 10A
4504.11215                                          0.106634371431473
mA                   -3                3       Delta : HC->HC MI 75V Range
10A : 0.00
4504.11216                                                     475.13749
mA               469.63           480.38       HC->HC FI 75V Range 10A
4504.11217                                          0.137490000000014
mA                -5.375            5.375       Delta : HC->HC FI 75V Range
10A : 475.00
4504.11218                        Exp= 475.13749   Act= 475.03998
mA                                       HC->HC MI 75V Range 10A
4504.11219                                         -0.097511633669399
mA                -5.375            5.375       Delta : HC->HC MI 75V Range
```

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10A : 475.00
4504.11220                                                    950.04292
mA              942.25              957.75       HC->HC FI 75V Range 10A
4504.11221                                          0.042914999999994
mA               -7.75                7.75       Delta : HC->HC FI 75V Range
10A : 950.00
4504.11222                          Exp= 950.04291   Act= 949.96834
mA                                               HC->HC MI 75V Range 10A
4504.11223                                        -0.074571635496000
mA               -7.75                7.75       Delta : HC->HC MI 75V Range
10A : 950.00
4504.11224                                                   -949.92119
mA             -954.62             -945.39       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11225                                          0.078808999999978
mA              -4.615               4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11226                          Exp= -949.92119  Act= -949.89760
mA                                               HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11227                                          0.023586690169964
mA              -4.615               4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11228                                                   -475.18191
mA             -478.81             -471.19       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11229                                        -0.181907000000024
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11230                          Exp= -475.18191  Act= -475.01196
mA                                               HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11231                                          0.169951794437907
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11232                                                     -0.11398
mA                  -3                   3       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11233                                        -0.113980738000000
mA                  -3                   3       Delta : HC->HC V/I Mode
```

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Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11234                                  Exp= -0.11398    Act= -0.00735
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11235                                                  0.106634371431473
mA                  -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11236                                                      475.13749
mA              471.19              478.81       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11237                                                  0.137490000000014
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11238                                  Exp= 475.13749   Act= 475.03998
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11239                                                 -0.097511633669399
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11240                                                      950.04292
mA              945.39              954.62       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11241                                                  0.042914999999994
mA              -4.615               4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11242                                  Exp= 950.04291   Act= 949.96834
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11243                                                 -0.074571635496000
mA              -4.615               4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11244                                                      -949.97641
mA             -953.15             -946.85       HC->HC FI 75V Range 4A
4504.11245                                                  0.023591999999894
mA               -3.15                3.15       Delta : HC->HC FI 75V Range
4A : -950.00
4504.11246                                  Exp= -949.97641  Act= -949.95039
mA                                                  HC->HC MI 75V Range 4A
4504.11247                                                  0.026013304792969
mA               -3.15                3.15       Delta : HC->HC MI 75V Range
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4A : -950.00
4504.11248                                                  -475.05449
mA              -477.2          -472.8      HC->HC FI 75V Range 4A
4504.11249                                          -0.054491000000041
mA               -2.2            2.2        Delta : HC->HC FI 75V Range
4A : -475.00
4504.11250                    Exp= -475.05449  Act= -474.97147
mA                                  HC->HC MI 75V Range 4A
4504.11251                                       0.083025408041749
mA               -2.2            2.2        Delta : HC->HC MI 75V Range
4A : -475.00
4504.11252                                                  -0.04385
mA              -1.25           1.25        HC->HC FI 75V Range 4A
4504.11253                                          -0.043849367600000
mA              -1.25           1.25        Delta : HC->HC FI 75V Range
4A : 0.00
4504.11254                    Exp= -0.04385    Act= -0.00159
mA                                  HC->HC MI 75V Range 4A
4504.11255                                       0.042255677644811
mA              -1.25           1.25        Delta : HC->HC MI 75V Range
4A : 0.00
4504.11256                                                   475.05090
mA               472.8          477.2       HC->HC FI 75V Range 4A
4504.11257                                       0.050902000000008
mA               -2.2            2.2        Delta : HC->HC FI 75V Range
4A : 475.00
4504.11258                    Exp= 475.05090   Act= 475.01422
mA                                  HC->HC MI 75V Range 4A
4504.11259                                          -0.036681462792615
mA               -2.2            2.2        Delta : HC->HC MI 75V Range
4A : 475.00
4504.11260                                                   950.05765
mA              946.85          953.15       HC->HC FI 75V Range 4A
4504.11261                                       0.057649999999967
mA              -3.15            3.15        Delta : HC->HC FI 75V Range
4A : 950.00
4504.11262                    Exp= 950.05765   Act= 949.99571
mA                                  HC->HC MI 75V Range 4A
4504.11263                                          -0.061940715713490
mA              -3.15            3.15        Delta : HC->HC MI 75V Range
```

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4A : 950.00
4504.11264                                                    -949.91481
mA              -957.75          -942.25       HC->HC FI 30V Range 10A
4504.11265                                          0.085187000000019
mA                -7.75             7.75       Delta : HC->HC FI 30V Range
10A : -950.00
4504.11266                        Exp= -949.91481  Act= -949.90647
mA                                      HC->HC MI 30V Range 10A
4504.11267                                          0.008338038572333
mA                -7.75             7.75       Delta : HC->HC MI 30V Range
10A : -950.00
4504.11268                                                    -475.15202
mA              -480.38          -469.63       HC->HC FI 30V Range 10A
4504.11269                                         -0.152021999999988
mA                -5.375            5.375       Delta : HC->HC FI 30V Range
10A : -475.00
4504.11270                        Exp= -475.15202  Act= -475.00975
mA                                      HC->HC MI 30V Range 10A
4504.11271                                          0.142269666908533
mA                -5.375            5.375       Delta : HC->HC MI 30V Range
10A : -475.00
4504.11272                                                     -0.10043
mA                   -3                3       HC->HC FI 30V Range 10A
4504.11273                                        -0.100433157000000
mA                   -3                3       Delta : HC->HC FI 30V Range
10A : 0.00
4504.11274                        Exp= -0.10043    Act= -0.01567
mA                                      HC->HC MI 30V Range 10A
4504.11275                                          0.084764235070682
mA                   -3                3       Delta : HC->HC MI 30V Range
10A : 0.00
4504.11276                                                     475.14718
mA              469.63           480.38       HC->HC FI 30V Range 10A
4504.11277                                          0.147176000000002
mA                -5.375            5.375       Delta : HC->HC FI 30V Range
10A : 475.00
4504.11278                        Exp= 475.14718   Act= 475.03129
mA                                      HC->HC MI 30V Range 10A
4504.11279                                         -0.115890092278960
mA                -5.375            5.375       Delta : HC->HC MI 30V Range
```

10A : 475.00
4504.11280 950.04754
mA 942.25 957.75 HC->HC FI 30V Range 10A
4504.11281 0.047541000000024
mA -7.75 7.75 Delta : HC->HC FI 30V Range
10A : 950.00
4504.11282 Exp= 950.04754 Act= 949.96073
mA HC->HC MI 30V Range 10A
4504.11283 -0.086810214085631
mA -7.75 7.75 Delta : HC->HC MI 30V Range
10A : 950.00
4504.11284 -949.91481
mA -954.62 -945.39 HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11285 0.085187000000019
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11286 Exp= -949.91481 Act= -949.90647
mA HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11287 0.008338038572333
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11288 -475.15202
mA -478.81 -471.19 HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11289 -0.152021999999988
mA -3.8075 3.8075 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11290 Exp= -475.15202 Act= -475.00975
mA HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11291 0.142269666908533
mA -3.8075 3.8075 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11292 -0.10043
mA -3 3 HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11293 -0.100433157000000
mA -3 3 Delta : HC->HC V/I Mode

Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11294 Exp= -0.10043 Act= -0.01567
mA HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11295 0.084764235070682
mA -3 3 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11296 475.14718
mA 471.19 478.81 HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11297 0.147176000000002
mA -3.8075 3.8075 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11298 Exp= 475.14718 Act= 475.03129
mA HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11299 -0.115890092278960
mA -3.8075 3.8075 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11300 950.04754
mA 945.39 954.62 HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11301 0.047541000000024
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11302 Exp= 950.04754 Act= 949.96073
mA HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11303 -0.086810214085631
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11304 -949.99001
mA -953.15 -946.85 HC->HC FI 30V Range 4A
4504.11305 0.009989999999902
mA -3.15 3.15 Delta : HC->HC FI 30V Range
4A : -950.00
4504.11306 Exp= -949.99001 Act= -949.97256
mA HC->HC MI 30V Range 4A
4504.11307 0.017449227629641
mA -3.15 3.15 Delta : HC->HC MI 30V Range

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4A : -950.00
4504.11308                                                  -475.03695
mA                -477.2              -472.8       HC->HC FI 30V Range 4A
4504.11309                                          -0.036948999999993
mA                 -2.2                2.2       Delta : HC->HC FI 30V Range
4A : -475.00
4504.11310                          Exp= -475.03695  Act= -474.97197
mA                                           HC->HC MI 30V Range 4A
4504.11311                                           0.064978433188799
mA                 -2.2                2.2       Delta : HC->HC MI 30V Range
4A : -475.00
4504.11312                                                   -0.02851
mA                -1.25               1.25       HC->HC FI 30V Range 4A
4504.11313                                          -0.028506691900000
mA                -1.25               1.25       Delta : HC->HC FI 30V Range
4A : 0.00
4504.11314                          Exp= -0.02851    Act= -0.00059
mA                                           HC->HC MI 30V Range 4A
4504.11315                                           0.027920283343445
mA                -1.25               1.25       Delta : HC->HC MI 30V Range
4A : 0.00
4504.11316                                                  475.06515
mA                472.8              477.2       HC->HC FI 30V Range 4A
4504.11317                                           0.065154000000007
mA                 -2.2                2.2       Delta : HC->HC FI 30V Range
4A : 475.00
4504.11318                          Exp= 475.06515   Act= 475.01031
mA                                           HC->HC MI 30V Range 4A
4504.11319                                          -0.054846046981936
mA                 -2.2                2.2       Delta : HC->HC MI 30V Range
4A : 475.00
4504.11320                                                  950.05490
mA               946.85              953.15       HC->HC FI 30V Range 4A
4504.11321                                           0.054895999999985
mA                -3.15               3.15       Delta : HC->HC FI 30V Range
4A : 950.00
4504.11322                          Exp= 950.05490   Act= 949.99311
mA                                           HC->HC MI 30V Range 4A
4504.11323                                          -0.061783996073359
mA                -3.15               3.15       Delta : HC->HC MI 30V Range
```

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4A : 950.00
4504.11324                                                    -950.28212
mA              -957.75          -942.25       HC->HC FI 10V Range 10A
4504.11325                                          -0.282120999999961
mA                -7.75             7.75       Delta : HC->HC FI 10V Range
10A : -950.00
4504.11326                        Exp= -950.28212  Act= -949.94270
mA                                      HC->HC MI 10V Range 10A
4504.11327                                           0.339417885818079
mA                -7.75             7.75       Delta : HC->HC MI 10V Range
10A : -950.00
4504.11328                                                    -474.55805
mA              -480.38          -469.63       HC->HC FI 10V Range 10A
4504.11329                                           0.441951000000017
mA                -5.375            5.375       Delta : HC->HC FI 10V Range
10A : -475.00
4504.11330                        Exp= -474.55805  Act= -474.95180
mA                                      HC->HC MI 10V Range 10A
4504.11331                                          -0.393751072795283
mA                -5.375            5.375       Delta : HC->HC MI 10V Range
10A : -475.00
4504.11332                                                      -0.05849
mA                   -3                3       HC->HC FI 10V Range 10A
4504.11333                                          -0.058486280600000
mA                   -3                3       Delta : HC->HC FI 10V Range
10A : 0.00
4504.11334                        Exp= -0.05849    Act= 0.00045
mA                                      HC->HC MI 10V Range 10A
4504.11335                                           0.058933027343183
mA                   -3                3       Delta : HC->HC MI 10V Range
10A : 0.00
4504.11336                                                     474.72318
mA               469.63           480.38       HC->HC FI 10V Range 10A
4504.11337                                          -0.276821999999981
mA                -5.375            5.375       Delta : HC->HC FI 10V Range
10A : 475.00
4504.11338                        Exp= 474.72318   Act= 475.02501
mA                                      HC->HC MI 10V Range 10A
4504.11339                                           0.301834914656013
mA                -5.375            5.375       Delta : HC->HC MI 10V Range
```

10A : 475.00
4504.11340 950.27915
mA 942.25 957.75 HC->HC FI 10V Range 10A
4504.11341 0.279152000000067
mA -7.75 7.75 Delta : HC->HC FI 10V Range
10A : 950.00
4504.11342 Exp= 950.27915 Act= 949.99820
mA HC->HC MI 10V Range 10A
4504.11343 -0.280953478971355
mA -7.75 7.75 Delta : HC->HC MI 10V Range
10A : 950.00
4504.11344 -950.28212
mA -954.62 -945.39 HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11345 -0.282120999999961
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11346 Exp= -950.28212 Act= -949.94270
mA HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11347 0.339417885818079
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11348 -474.55805
mA -478.81 -471.19 HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11349 0.441951000000017
mA -3.8075 3.8075 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11350 Exp= -474.55805 Act= -474.95180
mA HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11351 -0.393751072795283
mA -3.8075 3.8075 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11352 -0.05849
mA -3 3 HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11353 -0.058486280600000
mA -3 3 Delta : HC->HC V/I Mode

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Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11354                                  Exp= -0.05849    Act= 0.00045
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11355                                                   0.058933027343183
mA                  -3                       3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11356                                                          474.72318
mA               471.19                  478.81       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11357                                                 -0.276821999999981
mA              -3.8075                  3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11358                                  Exp= 474.72318   Act= 475.02501
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11359                                                   0.301834914656013
mA              -3.8075                  3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11360                                                          950.27915
mA               945.39                  954.62       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11361                                                   0.279152000000067
mA               -4.615                   4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11362                                  Exp= 950.27915   Act= 949.99820
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11363                                                 -0.280953478971355
mA               -4.615                   4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11364                                                         -950.00365
mA              -953.15                  -946.85       HC->HC FI 10V Range 4A
4504.11365                                                 -0.003647999999998
mA                -3.15                    3.15       Delta : HC->HC FI 10V Range
4A : -950.00
4504.11366                                  Exp= -950.00365  Act= -949.96694
mA                                                  HC->HC MI 10V Range 4A
4504.11367                                                   0.036703123290181
mA                -3.15                    3.15       Delta : HC->HC MI 10V Range
```

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4A : -950.00
4504.11368                                                  -474.98130
mA              -477.2          -472.8      HC->HC FI 10V Range 4A
4504.11369                                          0.018704000000014
mA               -2.2            2.2        Delta : HC->HC FI 10V Range
4A : -475.00
4504.11370                    Exp= -474.98130  Act= -474.97659
mA                                  HC->HC MI 10V Range 4A
4504.11371                                          0.004705775492482
mA               -2.2            2.2        Delta : HC->HC MI 10V Range
4A : -475.00
4504.11372                                                   -0.00977
mA              -1.25           1.25        HC->HC FI 10V Range 4A
4504.11373                                         -0.009773284550000
mA              -1.25           1.25        Delta : HC->HC FI 10V Range
4A : 0.00
4504.11374                    Exp= -0.00977    Act= 0.01120
mA                                  HC->HC MI 10V Range 4A
4504.11375                                          0.020976974340273
mA              -1.25           1.25        Delta : HC->HC MI 10V Range
4A : 0.00
4504.11376                                                   475.02705
mA               472.8          477.2       HC->HC FI 10V Range 4A
4504.11377                                          0.027048999999977
mA               -2.2            2.2        Delta : HC->HC FI 10V Range
4A : 475.00
4504.11378                    Exp= 475.02705   Act= 475.04365
mA                                  HC->HC MI 10V Range 4A
4504.11379                                          0.016597367549821
mA               -2.2            2.2        Delta : HC->HC MI 10V Range
4A : 475.00
4504.11380                                                   950.05051
mA              946.85          953.15      HC->HC FI 10V Range 4A
4504.11381                                          0.050509000000034
mA              -3.15           3.15        Delta : HC->HC FI 10V Range
4A : 950.00
4504.11382                    Exp= 950.05051   Act= 949.98075
mA                                  HC->HC MI 10V Range 4A
4504.11383                                         -0.069758196670705
mA              -3.15           3.15        Delta : HC->HC MI 10V Range
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4A : 950.00
4505.10000                                          HC relays verified
DIB HC Relays Check
4505.10001                                                          0
status                                          0       DIB HC Relays Check
4505.10002                                Exp= -9.49997    Act= -9.50000
V                                            LC->LC MV PGA 100V Range 10X
4505.10003                                          -0.000034030050976
V            -0.008375             0.008375       Delta : LC->LC MV PGA 100V
Range 10X : -9.50
4505.10004                                Exp= -0.00015    Act= -0.00017
V                                            LC->LC MV PGA 100V Range 10X
4505.10005                                          -0.000013598211132
V               -0.006                0.006       Delta : LC->LC MV PGA 100V
Range 10X : 0.00
4505.10006                                Exp= 9.50045     Act= 9.50044
V                                            LC->LC MV PGA 100V Range 10X
4505.10007                                          -0.000016288927196
V            -0.008375             0.008375       Delta : LC->LC MV PGA 100V
Range 10X : 9.50
4505.10008                                Exp= -0.94987    Act= -0.94985
V                                            LC->LC MV PGA 100V Range 100X
4505.10009                                           0.000021728927119
V           -0.0062375            0.0062375       Delta : LC->LC MV PGA 100V
Range 100X : -0.95
4505.10010                                Exp= -0.00012    Act= -0.00012
V                                            LC->LC MV PGA 100V Range 100X
4505.10011                                          -0.000001194657336
V               -0.006                0.006       Delta : LC->LC MV PGA 100V
Range 100X : 0.00
4505.10012                                Exp= 0.95042     Act= 0.95041
V                                            LC->LC MV PGA 100V Range 100X
4505.10013                                          -0.000008837838914
V           -0.0062375            0.0062375       Delta : LC->LC MV PGA 100V
Range 100X : 0.95
4505.10014                                Exp= -2.84997    Act= -2.84999
V                                            LC->LC MV PGA 30V Range 10X
4505.10015                                          -0.000020774992485
V           -0.0027125            0.0027125       Delta : LC->LC MV PGA 30V Range
10X : -2.85
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4505.10016                                  Exp= -0.00000    Act= -0.00003
V                                               LC->LC MV PGA 30V Range 10X
4505.10017                                             -0.000024980416523
V              -0.002              0.002        Delta : LC->LC MV PGA 30V Range
10X : 0.00
4505.10018                                  Exp= 2.84997     Act= 2.84995
V                                               LC->LC MV PGA 30V Range 10X
4505.10019                                             -0.000012873666464
V          -0.0027125          0.0027125        Delta : LC->LC MV PGA 30V Range
10X : 2.85
4505.10020                                  Exp= -0.28503    Act= -0.28502
V                                               LC->LC MV PGA 30V Range 100X
4505.10021                                              0.000009090311455
V          -0.00207125         0.00207125       Delta : LC->LC MV PGA 30V Range
100X : -0.29
4505.10022                                  Exp= -0.00002    Act= -0.00000
V                                               LC->LC MV PGA 30V Range 100X
4505.10023                                              0.000014437836182
V              -0.002              0.002        Delta : LC->LC MV PGA 30V Range
100X : 0.00
4505.10024                                  Exp= 0.28502     Act= 0.28500
V                                               LC->LC MV PGA 30V Range 100X
4505.10025                                             -0.000015084274605
V          -0.00207125         0.00207125       Delta : LC->LC MV PGA 30V Range
100X : 0.29
4505.10026                                  Exp= -0.94999    Act= -0.95000
V                                               LC->LC MV PGA 10V Range 10X
4505.10027                                             -0.000005373607095
V          -0.0008375          0.0008375        Delta : LC->LC MV PGA 10V Range
10X : -0.95
4505.10028                                  Exp= -0.00002    Act= -0.00003
V                                               LC->LC MV PGA 10V Range 10X
4505.10029                                             -0.000009530416317
V              -0.0006             0.0006        Delta : LC->LC MV PGA 10V Range
10X : 0.00
4505.10030                                  Exp= 0.95003     Act= 0.95003
V                                               LC->LC MV PGA 10V Range 10X
4505.10031                                              0.000001994772689
V          -0.0008375          0.0008375        Delta : LC->LC MV PGA 10V Range
10X : 0.95
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4505.10032                                  Exp= -0.09500    Act= -0.09500
V                                              LC->LC MV PGA 10V Range 100X
4505.10033                                                  -0.000002525295426
V          -0.00062375          0.00062375      Delta : LC->LC MV PGA 10V Range
100X : -0.10
4505.10034                                  Exp= -0.00002    Act= -0.00002
V                                              LC->LC MV PGA 10V Range 100X
4505.10035                                                   0.000001627305863
V              -0.0006              0.0006      Delta : LC->LC MV PGA 10V Range
100X : 0.00
4505.10036                                  Exp= 0.09497     Act= 0.09498
V                                              LC->LC MV PGA 10V Range 100X
4505.10037                                                   0.000005202787662
V          -0.00062375          0.00062375      Delta : LC->LC MV PGA 10V Range
100X : 0.10
4505.10038                                  Exp= -6.99986    Act= -6.99979
V                                              HC->HC MV PGA 75V Range 10X
4505.10039                                                   0.000073295327693
V             -0.00775             0.00775      Delta : HC->HC MV PGA 75V Range
10X : -7.00
4505.10040                                  Exp= -0.00012    Act= -0.00007
V                                              HC->HC MV PGA 75V Range 10X
4505.10041                                                   0.000041892405478
V               -0.006               0.006      Delta : HC->HC MV PGA 75V Range
10X : 0.00
4505.10042                                  Exp= 7.00039     Act= 7.00043
V                                              HC->HC MV PGA 75V Range 10X
4505.10043                                                   0.000037013010390
V             -0.00775             0.00775      Delta : HC->HC MV PGA 75V Range
10X : 7.00
4505.10044                                  Exp= -0.70011    Act= -0.69998
V                                              HC->HC MV PGA 75V Range 100X
4505.10045                                                   0.000127167417880
V            -0.003175            0.003175      Delta : HC->HC MV PGA 75V Range
100X : -0.70
4505.10046                                  Exp= -0.00021    Act= -0.00009
V                                              HC->HC MV PGA 75V Range 100X
4505.10047                                                   0.000118744603793
V               -0.003               0.003      Delta : HC->HC MV PGA 75V Range
100X : 0.00
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4505.10048                                  Exp= 0.70047     Act= 0.70060
V                                                HC->HC MV PGA 75V Range 100X
4505.10049                                                0.000132536324300
V            -0.003175              0.003175       Delta : HC->HC MV PGA 75V Range
100X : 0.70
4505.10050                                  Exp= -2.80003    Act= -2.80002
V                                                HC->HC MV PGA 30V Range 10X
4505.10051                                                0.000011994905619
V              -0.0027                0.0027       Delta : HC->HC MV PGA 30V Range
10X : -2.80
4505.10052                                  Exp= -0.00004    Act= -0.00002
V                                                HC->HC MV PGA 30V Range 10X
4505.10053                                                0.000021596713630
V               -0.002                 0.002       Delta : HC->HC MV PGA 30V Range
10X : 0.00
4505.10054                                  Exp= 2.79993     Act= 2.79996
V                                                HC->HC MV PGA 30V Range 10X
4505.10055                                                0.000026214349121
V              -0.0027                0.0027       Delta : HC->HC MV PGA 30V Range
10X : 2.80
4505.10056                                  Exp= -0.27991    Act= -0.27988
V                                                HC->HC MV PGA 30V Range 100X
4505.10057                                                0.000032024224516
V             -0.00107               0.00107       Delta : HC->HC MV PGA 30V Range
100X : -0.28
4505.10058                                  Exp= -0.00003    Act= -0.00001
V                                                HC->HC MV PGA 30V Range 100X
4505.10059                                                0.000023930208738
V               -0.001                 0.001       Delta : HC->HC MV PGA 30V Range
100X : 0.00
4505.10060                                  Exp= 0.27982     Act= 0.27985
V                                                HC->HC MV PGA 30V Range 100X
4505.10061                                                0.000035815224526
V             -0.00107               0.00107       Delta : HC->HC MV PGA 30V Range
100X : 0.28
4505.10062                                  Exp= -0.85004    Act= -0.85004
V                                                HC->HC MV PGA 10V Range 10X
4505.10063                                                0.000002734027217
V           -0.0008125             0.0008125       Delta : HC->HC MV PGA 10V Range
10X : -0.85
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4505.10064                                  Exp= -0.00004    Act= -0.00004
V                                              HC->HC MV PGA 10V Range 10X
4505.10065                                                  0.000003294304632
V              -0.0006                0.0006       Delta : HC->HC MV PGA 10V Range
10X : 0.00
4505.10066                                  Exp= 0.84997     Act= 0.84997
V                                              HC->HC MV PGA 10V Range 10X
4505.10067                                                  0.000004633548860
V           -0.0008125             0.0008125       Delta : HC->HC MV PGA 10V Range
10X : 0.85
4505.10068                                  Exp= -0.08504    Act= -0.08503
V                                              HC->HC MV PGA 10V Range 100X
4505.10069                                                  0.000003085721922
V          -0.00032125            0.00032125       Delta : HC->HC MV PGA 10V Range
100X : -0.09
4505.10070                                  Exp= -0.00004    Act= -0.00004
V                                              HC->HC MV PGA 10V Range 100X
4505.10071                                                 -0.000002535998800
V              -0.0003                0.0003       Delta : HC->HC MV PGA 10V Range
100X : 0.00
4505.10072                                  Exp= 0.08498     Act= 0.08497
V                                              HC->HC MV PGA 10V Range 100X
4505.10073                                                 -0.000008024382528
V          -0.00032125            0.00032125       Delta : HC->HC MV PGA 10V Range
100X : 0.09
4506.10000                                                 HC relays verified
DIB HC Relays Check
4506.10001                                                                    0
status                                          0       DIB HC Relays Check
4506.10002                                  Exp= -0.80000    Act= -0.79998
V                                              MV Pedestal LC 0V Pedestal
4506.10003                                                  0.000022047581778
V             -0.00033                0.00033       Delta : MV Pedestal LC 0V
Pedestal : -0.80
4506.10004                                  Exp= -0.40001    Act= -0.40001
V                                              MV Pedestal LC 0V Pedestal
4506.10005                                                 -0.000000342317751
V             -0.00029                0.00029       Delta : MV Pedestal LC 0V
Pedestal : -0.40
4506.10006                                  Exp= 0.00009     Act= 0.00007
```

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V                                                    MV Pedestal LC 0V Pedestal
4506.10007                                                  -0.000020447867462
V             -0.00025              0.00025          Delta : MV Pedestal LC 0V
Pedestal : 0.00
4506.10008                                 Exp= 0.40020     Act= 0.40019
V                                                    MV Pedestal LC 0V Pedestal
4506.10009                                                  -0.000008923586400
V             -0.00029              0.00029          Delta : MV Pedestal LC 0V
Pedestal : 0.40
4506.10010                                 Exp= 0.80018     Act= 0.80022
V                                                    MV Pedestal LC 0V Pedestal
4506.10011                                                   0.000033701930351
V             -0.00033              0.00033          Delta : MV Pedestal LC 0V
Pedestal : 0.80
4506.10012                                 Exp= 0.30015     Act= 0.30014
V                                                    MV Pedestal LC 1V Pedestal
4506.10013                                                  -0.000003075156347
V             -0.00028              0.00028          Delta : MV Pedestal LC 1V
Pedestal : 0.30
4506.10014                                 Exp= 0.60017     Act= 0.60019
V                                                    MV Pedestal LC 1V Pedestal
4506.10015                                                   0.000018524747749
V             -0.00031              0.00031          Delta : MV Pedestal LC 1V
Pedestal : 0.60
4506.10016                                 Exp= 1.00025     Act= 1.00028
V                                                    MV Pedestal LC 1V Pedestal
4506.10017                                                   0.000024657479653
V             -0.00035              0.00035          Delta : MV Pedestal LC 1V
Pedestal : 1.00
4506.10018                                 Exp= 1.30019     Act= 1.30021
V                                                    MV Pedestal LC 1V Pedestal
4506.10019                                                   0.000019078572296
V             -0.00038              0.00038          Delta : MV Pedestal LC 1V
Pedestal : 1.30
4506.10020                                 Exp= 1.70030     Act= 1.70028
V                                                    MV Pedestal LC 1V Pedestal
4506.10021                                                  -0.000018068027160
V             -0.00042              0.00042          Delta : MV Pedestal LC 1V
Pedestal : 1.70
4506.10022                                 Exp= 2.40037     Act= 2.40037
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V                                                    MV Pedestal LC 3V Pedestal
4506.10023                                                  0.000006172213320
V             -0.00049              0.00049          Delta : MV Pedestal LC 3V
Pedestal : 2.40
4506.10024                                 Exp= 2.70029     Act= 2.70030
V                                                    MV Pedestal LC 3V Pedestal
4506.10025                                                  0.000012282493465
V             -0.00052              0.00052          Delta : MV Pedestal LC 3V
Pedestal : 2.70
4506.10026                                 Exp= 3.00032     Act= 3.00031
V                                                    MV Pedestal LC 3V Pedestal
4506.10027                                                 -0.000007865980635
V             -0.00055              0.00055          Delta : MV Pedestal LC 3V
Pedestal : 3.00
4506.10028                                 Exp= 3.30035     Act= 3.30035
V                                                    MV Pedestal LC 3V Pedestal
4506.10029                                                  0.000001468059494
V             -0.00058              0.00058          Delta : MV Pedestal LC 3V
Pedestal : 3.30
4506.10030                                 Exp= 3.60028     Act= 3.60026
V                                                    MV Pedestal LC 3V Pedestal
4506.10031                                                 -0.000017341503368
V             -0.00061              0.00061          Delta : MV Pedestal LC 3V
Pedestal : 3.60
4506.10032                                 Exp= 4.30041     Act= 4.30037
V                                                    MV Pedestal LC 5V Pedestal
4506.10033                                                 -0.000035569225997
V             -0.00068              0.00068          Delta : MV Pedestal LC 5V
Pedestal : 4.30
4506.10034                                 Exp= 4.60038     Act= 4.60035
V                                                    MV Pedestal LC 5V Pedestal
4506.10035                                                 -0.000021607374641
V             -0.00071              0.00071          Delta : MV Pedestal LC 5V
Pedestal : 4.60
4506.10036                                 Exp= 5.00047     Act= 5.00044
V                                                    MV Pedestal LC 5V Pedestal
4506.10037                                                 -0.000023615164528
V             -0.00075              0.00075          Delta : MV Pedestal LC 5V
Pedestal : 5.00
4506.10038                                 Exp= 5.30040     Act= 5.30038
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V                                                    MV Pedestal LC 5V Pedestal
4506.10039                                                  -0.000012311141258
V             -0.00078              0.00078       Delta : MV Pedestal LC 5V
Pedestal : 5.30
4506.10040                                 Exp= 5.70036     Act= 5.70035
V                                                    MV Pedestal LC 5V Pedestal
4506.10041                                                  -0.000007349251293
V             -0.00082              0.00082       Delta : MV Pedestal LC 5V
Pedestal : 5.70
4507.11000                                                  HC relays verified
DIB HC Relays Check
4507.11001                                                                    0
status                                          0       DIB HC Relays Check
4507.11002                                 Exp= -47.49086   Act= -47.49154
mA                                                  LC->LC MI PGA 100V Range 500mA
10X
4507.11003                                                  -0.000678695507077
mA             -0.08375              0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : -47.50
4507.11004                                 Exp= 0.00890     Act= 0.00889
mA                                                  LC->LC MI PGA 100V Range 500mA
10X
4507.11005                                                  -0.000013460887873
mA                -0.06                 0.06       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 0.00
4507.11006                                 Exp= 47.51194    Act= 47.51177
mA                                                  LC->LC MI PGA 100V Range 500mA
10X
4507.11007                                                  -0.000167694499666
mA             -0.08375              0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 47.50
4507.11008                                 Exp= -4.73573    Act= -4.73593
mA                                                  LC->LC MI PGA 100V Range 500mA
100X
4507.11009                                                  -0.000199016403842
mA            -0.062375             0.062375       Delta : LC->LC MI PGA 100V
Range 500mA 100X : -4.75
4507.11010                                 Exp= 0.01061     Act= 0.00931
mA                                                  LC->LC MI PGA 100V Range 500mA
100X
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4507.11011                                                  -0.001306732252490
mA                -0.06                0.06       Delta : LC->LC MI PGA 100V
Range 500mA 100X : 0.00
4507.11012                          Exp= 4.76101     Act= 4.76000
mA                                          LC->LC MI PGA 100V Range 500mA
100X
4507.11013                                                  -0.001017580304103
mA             -0.062375            0.062375       Delta : LC->LC MI PGA 100V
Range 500mA 100X : 4.75
4507.11014                          Exp= -94.98644   Act= -94.98728
mA                                          LC->LC MI PGA 30V Range 1A 10X
4507.11015                                                  -0.000848386046201
mA               -0.1075              0.1075       Delta : LC->LC MI PGA 30V
Range 1A 10X : -95.00
4507.11016                          Exp= 0.01172     Act= 0.01083
mA                                          LC->LC MI PGA 30V Range 1A 10X
4507.11017                                                  -0.000887526677240
mA                -0.06                0.06       Delta : LC->LC MI PGA 30V
Range 1A 10X : 0.00
4507.11018                          Exp= 95.00951    Act= 95.00789
mA                                          LC->LC MI PGA 30V Range 1A 10X
4507.11019                                                  -0.001620522894129
mA               -0.1075              0.1075       Delta : LC->LC MI PGA 30V
Range 1A 10X : 95.00
4507.11020                          Exp= -9.48524    Act= -9.48711
mA                                          LC->LC MI PGA 30V Range 1A
100X
4507.11021                                                  -0.001870261775196
mA             -0.06475             0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : -9.50
4507.11022                          Exp= 0.01189     Act= 0.01060
mA                                          LC->LC MI PGA 30V Range 1A
100X
4507.11023                                                  -0.001286463539893
mA                -0.06                0.06       Delta : LC->LC MI PGA 30V
Range 1A 100X : 0.00
4507.11024                          Exp= 9.51163     Act= 9.50984
mA                                          LC->LC MI PGA 30V Range 1A
100X
4507.11025                                                  -0.001788598583673
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mA              -0.06475              0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : 9.50
4507.11026                                Exp= -9.49916    Act= -9.49940
mA                                                 LC->LC MI PGA 30V Range 100mA
10X
4507.11027                                                      -0.000242393899503
mA              -0.01075              0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : -9.50
4507.11028                                Exp= 0.00078     Act= 0.00050
mA                                                 LC->LC MI PGA 30V Range 100mA
10X
4507.11029                                                      -0.000280645306420
mA                -0.006                0.006       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 0.00
4507.11030                                Exp= 9.50074     Act= 9.50060
mA                                                 LC->LC MI PGA 30V Range 100mA
10X
4507.11031                                                      -0.000145286662056
mA              -0.01075              0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 9.50
4507.11032                                Exp= -949.28092  Act= -949.44847
uA                                                 LC->LC MI PGA 30V Range 100mA
100X
4507.11033                                                      -0.167554571533742
uA                -6.475                6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : -950.00
4507.11034                                Exp= 0.64687     Act= 0.46242
uA                                                 LC->LC MI PGA 30V Range 100mA
100X
4507.11035                                                      -0.184451974207286
uA                   -6                    6       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 0.00
4507.11036                                Exp= 950.61486   Act= 950.37940
uA                                                 LC->LC MI PGA 30V Range 100mA
100X
4507.11037                                                      -0.235460711428686
uA                -6.475                6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 950.00
4507.11038                                Exp= -949.93896  Act= -949.94164
uA                                                 LC->LC MI PGA 30V Range 10mA
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10X
4507.11039                                                  -0.002684546008709
uA                -1.075              1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : -950.00
4507.11040                    Exp= 0.09609     Act= 0.08271
uA                                    LC->LC MI PGA 30V Range 10mA
10X
4507.11041                                                  -0.013384570919881
uA                  -0.6                0.6       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 0.00
4507.11042                    Exp= 950.12304   Act= 950.11067
uA                                    LC->LC MI PGA 30V Range 10mA
10X
4507.11043                                                  -0.012364793878078
uA                -1.075              1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 950.00
4507.11044                    Exp= -189.99764  Act= -190.00043
mA                                    LC->LC MI PGA 10V Range 2A 10X
4507.11045                                                  -0.002797090848588
mA                 -0.22                0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : -190.00
4507.11046                    Exp= -0.00345    Act= -0.00432
mA                                    LC->LC MI PGA 10V Range 2A 10X
4507.11047                                                  -0.000866814631750
mA                -0.125               0.125       Delta : LC->LC MI PGA 10V
Range 2A 10X : 0.00
4507.11048                    Exp= 190.01018   Act= 190.00896
mA                                    LC->LC MI PGA 10V Range 2A 10X
4507.11049                                                  -0.001223353285923
mA                 -0.22                0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : 190.00
4507.11050                    Exp= -18.97534   Act= -18.97706
mA                                    LC->LC MI PGA 10V Range 2A
100X
4507.11051                                                  -0.001727031745808
mA               -0.1345              0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : -19.00
4507.11052                    Exp= 0.00560     Act= 0.00246
mA                                    LC->LC MI PGA 10V Range 2A
100X
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4507.11053 -0.003142487402964
mA -0.125 0.125 Delta : LC->LC MI PGA 10V
Range 2A 100X : 0.00
4507.11054 Exp= 19.00207 Act= 18.99916
mA LC->LC MI PGA 10V Range 2A
100X
4507.11055 -0.002911874923264
mA -0.1345 0.1345 Delta : LC->LC MI PGA 10V
Range 2A 100X : 19.00
4507.11056 Exp= -18.99079 Act= -18.99088
mA LC->LC MI PGA 10V Range 200mA
10X
4507.11057 -0.000089910823146
mA -0.0215 0.0215 Delta : LC->LC MI PGA 10V
Range 200mA 10X : -19.00
4507.11058 Exp= 0.00907 Act= 0.00882
mA LC->LC MI PGA 10V Range 200mA
10X
4507.11059 -0.000249672141521
mA -0.012 0.012 Delta : LC->LC MI PGA 10V
Range 200mA 10X : 0.00
4507.11060 Exp= 19.00912 Act= 19.00860
mA LC->LC MI PGA 10V Range 200mA
10X
4507.11061 -0.000528052980627
mA -0.0215 0.0215 Delta : LC->LC MI PGA 10V
Range 200mA 10X : 19.00
4507.11062 Exp= -1.89025 Act= -1.89047
mA LC->LC MI PGA 10V Range 200mA
100X
4507.11063 -0.000225191299305
mA -0.01295 0.01295 Delta : LC->LC MI PGA 10V
Range 200mA 100X : -1.90
4507.11064 Exp= 0.00965 Act= 0.00939
mA LC->LC MI PGA 10V Range 200mA
100X
4507.11065 -0.000260429330713
mA -0.012 0.012 Delta : LC->LC MI PGA 10V
Range 200mA 100X : 0.00
4507.11066 Exp= 1.90971 Act= 1.90945

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mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11067                                                  -0.000260440202325
mA             -0.01295             0.01295       Delta : LC->LC MI PGA 10V
Range 200mA 100X : 1.90
4507.11068                          Exp= -1.89936    Act= -1.89938
mA                                                  LC->LC MI PGA 10V Range 20mA
10X
4507.11069                                                  -0.000012949358112
mA             -0.00215             0.00215       Delta : LC->LC MI PGA 10V
Range 20mA 10X : -1.90
4507.11070                          Exp= 0.00068     Act= 0.00069
mA                                                  LC->LC MI PGA 10V Range 20mA
10X
4507.11071                                                   0.000006149879395
mA              -0.0012              0.0012       Delta : LC->LC MI PGA 10V
Range 20mA 10X : 0.00
4507.11072                          Exp= 1.90061     Act= 1.90059
mA                                                  LC->LC MI PGA 10V Range 20mA
10X
4507.11073                                                  -0.000025489891874
mA             -0.00215             0.00215       Delta : LC->LC MI PGA 10V
Range 20mA 10X : 1.90
4507.11074                          Exp= -666.32426  Act= -666.40623
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11075                                                  -0.081975634852142
mA               -18.325              18.325       Delta : HC->HC MI PGA 75V
Range 100A 10X : -665.00
4507.11076                          Exp= -1.47155    Act= -1.50596
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11077                                                  -0.034401299748225
mA                  -15                 15        Delta : HC->HC MI PGA 75V
Range 100A 10X : 0.00
4507.11078                          Exp= 662.58860   Act= 662.66021
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11079                                                   0.071617810101543
mA              -18.325              18.325       Delta : HC->HC MI PGA 75V
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Range 100A 10X : 665.00
4507.11080                                  Exp= -666.23747  Act= -666.33128
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11081                                                  -0.093804387279533
mA              -10.825              10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : -665.00
4507.11082                                  Exp= -1.42127    Act= -1.56216
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11083                                                  -0.140893511664979
mA                -7.5                 7.5       Delta : HC->HC MI PGA 75V
Range 100A 100X : 0.00
4507.11084                                  Exp= 662.74121   Act= 662.46907
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11085                                                  -0.272146972969495
mA              -10.825              10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : 665.00
4507.11086                                  Exp= -665.26258  Act= -665.27368
mA                                                  HC->HC MI PGA 75V Range 10A
10X
4507.11087                                                  -0.011102613420121
mA               -4.825               4.825       Delta : HC->HC MI PGA 75V
Range 10A 10X : -665.00
4507.11088                                  Exp= -0.08366    Act= -0.02079
mA                                                  HC->HC MI PGA 75V Range 10A
10X
4507.11089                                                   0.062867148252548
mA                 -1.5                 1.5       Delta : HC->HC MI PGA 75V
Range 10A 10X : 0.00
4507.11090                                  Exp= 665.30144   Act= 665.25370
mA                                                  HC->HC MI PGA 75V Range 10A
10X
4507.11091                                                  -0.047741929066774
mA               -4.825               4.825       Delta : HC->HC MI PGA 75V
Range 10A 10X : 665.00
4507.11092                                  Exp= -665.26258  Act= -665.27368
mA                                                  HC->HC MI With booster
improved cal check 75V Range 10A 10X
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4507.11093                                                    -0.011102613420121
mA              -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : -665.00
4507.11094                                Exp= -0.08366    Act= -0.02079
mA                                                HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11095                                                    0.062867148252548
mA                -1.5                  1.5       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 0.00
4507.11096                                Exp= 665.30144   Act= 665.25370
mA                                                HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11097                                                   -0.047741929066774
mA              -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 665.00
4507.11098                                Exp= -66.47323   Act= -66.46523
mA                                                HC->HC MI PGA 75V Range 10A
100X
4507.11099                                                    0.008008128422787
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 75V
Range 10A 100X : -66.50
4507.11100                                Exp= -0.11352    Act= -0.10153
mA                                                HC->HC MI PGA 75V Range 10A
100X
4507.11101                                                    0.011997788928505
mA                -0.75                 0.75       Delta : HC->HC MI PGA 75V
Range 10A 100X : 0.00
4507.11102                                Exp= 66.24240    Act= 66.26617
mA                                                HC->HC MI PGA 75V Range 10A
100X
4507.11103                                                    0.023768438249519
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 75V
Range 10A 100X : 66.50
4507.11104                                Exp= -66.47323   Act= -66.46523
mA                                                HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11105                                                    0.008008128422787
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : -66.50
4507.11106                                Exp= -0.11352    Act= -0.10153
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mA                                                  HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11107                                                  0.011997788928505
mA                -0.75                  0.75       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 0.00
4507.11108                                  Exp= 66.24240    Act= 66.26617
mA                                                  HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11109                                                  0.023768438249519
mA             -0.86305               0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 66.50
4507.11110                                  Exp= -266.04709  Act= -266.04398
mA                                                  HC->HC MI PGA 75V Range 4A 10X
4507.11111                                                  0.003111478763344
mA               -1.157                 1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : -266.00
4507.11112                                  Exp= -0.04564    Act= -0.03035
mA                                                  HC->HC MI PGA 75V Range 4A 10X
4507.11113                                                  0.015293418290349
mA               -0.625                 0.625       Delta : HC->HC MI PGA 75V
Range 4A 10X : 0.00
4507.11114                                  Exp= 266.04356   Act= 266.02089
mA                                                  HC->HC MI PGA 75V Range 4A 10X
4507.11115                                                 -0.022665347682107
mA               -1.157                 1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : 266.00
4507.11116                                  Exp= -26.61133   Act= -26.60678
mA                                                  HC->HC MI PGA 75V Range 4A
100X
4507.11117                                                  0.004551100694094
mA              -0.3652                0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : -26.60
4507.11118                                  Exp= -0.03265    Act= -0.02939
mA                                                  HC->HC MI PGA 75V Range 4A
100X
4507.11119                                                  0.003261527604850
mA               -0.312                 0.312       Delta : HC->HC MI PGA 75V
Range 4A 100X : 0.00
4507.11120                                  Exp= 26.54540    Act= 26.55192
mA                                                  HC->HC MI PGA 75V Range 4A
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100X
4507.11121                                                  0.006524000701500
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : 26.60
4507.11122                                 Exp= -666.41462  Act= -666.47998
mA                                                HC->HC MI PGA 30V Range 100A
10X
4507.11123                                                 -0.065358902491767
mA              -18.325              18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : -665.00
4507.11124                                 Exp= -1.68106    Act= -1.67405
mA                                                HC->HC MI PGA 30V Range 100A
10X
4507.11125                                                  0.007007531043798
mA                 -15                     15       Delta : HC->HC MI PGA 30V
Range 100A 10X : 0.00
4507.11126                                 Exp= 662.47392   Act= 662.40153
mA                                                HC->HC MI PGA 30V Range 100A
10X
4507.11127                                                 -0.072385911710967
mA              -18.325              18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : 665.00
4507.11128                                 Exp= -666.41518  Act= -666.29480
mA                                                HC->HC MI PGA 30V Range 100A
100X
4507.11129                                                  0.120380940995460
mA              -10.825              10.825       Delta : HC->HC MI PGA 30V
Range 100A 100X : -665.00
4507.11130                                 Exp= -1.57201    Act= -1.45347
mA                                                HC->HC MI PGA 30V Range 100A
100X
4507.11131                                                  0.118539507470466
mA                -7.5                   7.5       Delta : HC->HC MI PGA 30V
Range 100A 100X : 0.00
4507.11132                                 Exp= 662.52241   Act= 662.69222
mA                                                HC->HC MI PGA 30V Range 100A
100X
4507.11133                                                  0.169818552071320
mA              -10.825              10.825       Delta : HC->HC MI PGA 30V
Range 100A 100X : 665.00
```

```
4507.11134                                  Exp= -665.22205  Act= -665.28874
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11135                                                  -0.066689363255023
mA               -4.825               4.825       Delta : HC->HC MI PGA 30V
Range 10A 10X : -665.00
4507.11136                                  Exp= -0.06824    Act= -0.00679
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11137                                                   0.061444050466496
mA                 -1.5                 1.5       Delta : HC->HC MI PGA 30V
Range 10A 10X : 0.00
4507.11138                                   Exp= 665.32221   Act= 665.29269
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11139                                                  -0.029528536913517
mA               -4.825               4.825       Delta : HC->HC MI PGA 30V
Range 10A 10X : 665.00
4507.11140                                  Exp= -665.22205  Act= -665.28874
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11141                                                  -0.066689363255023
mA              -2.6305              2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : -665.00
4507.11142                                  Exp= -0.06824    Act= -0.00679
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11143                                                   0.061444050466496
mA                -1.5                 1.5       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 0.00
4507.11144                                   Exp= 665.32221   Act= 665.29269
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11145                                                  -0.029528536913517
mA              -2.6305              2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 665.00
4507.11146                                  Exp= -66.44730   Act= -66.46200
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11147                                                  -0.014697872442653
```

```
mA              -1.0825              1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : -66.50
4507.11148                                Exp= -0.08770    Act= -0.09726
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11149                                                -0.009563461463465
mA               -0.75                 0.75       Delta : HC->HC MI PGA 30V
Range 10A 100X : 0.00
4507.11150                                Exp= 66.27611    Act= 66.26663
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11151                                                -0.009480335214761
mA              -1.0825              1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : 66.50
4507.11152                                Exp= -66.44730   Act= -66.46200
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11153                                                -0.014697872442653
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : -66.50
4507.11154                                Exp= -0.08770    Act= -0.09726
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11155                                                -0.009563461463465
mA               -0.75                 0.75       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 0.00
4507.11156                                Exp= 66.27611    Act= 66.26663
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11157                                                -0.009480335214761
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 66.50
4507.11158                                Exp= -266.06129  Act= -266.07636
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11159                                                -0.015065673589618
mA               -1.157                1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : -266.00
4507.11160                                Exp= -0.02976    Act= -0.02364
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11161                                                 0.006120431875523
```

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mA                -0.625                0.625       Delta : HC->HC MI PGA 30V
Range 4A 10X : 0.00
4507.11162                                  Exp= 266.05964   Act= 266.03656
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11163                                              -0.023074462157297
mA                -1.157                1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : 266.00
4507.11164                                  Exp= -26.59942   Act= -26.60713
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11165                                              -0.007708688450656
mA              -0.3652               0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : -26.60
4507.11166                                  Exp= -0.02475    Act= -0.02903
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11167                                              -0.004275008569657
mA                -0.312                0.312       Delta : HC->HC MI PGA 30V
Range 4A 100X : 0.00
4507.11168                                  Exp= 26.55486    Act= 26.55289
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11169                                              -0.001976080428566
mA              -0.3652               0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : 26.60
4507.11170                                  Exp= -666.45965  Act= -666.36233
mA                                                HC->HC MI PGA 10V Range 100A
10X
4507.11171                                               0.097317942894051
mA              -18.325               18.325       Delta : HC->HC MI PGA 10V
Range 100A 10X : -665.00
4507.11172                                  Exp= -1.57508    Act= -1.60742
mA                                                HC->HC MI PGA 10V Range 100A
10X
4507.11173                                              -0.032338490083863
mA                  -15                   15       Delta : HC->HC MI PGA 10V
Range 100A 10X : 0.00
4507.11174                                  Exp= 662.58722   Act= 662.42342
mA                                                HC->HC MI PGA 10V Range 100A
10X
```

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4507.11175                                                  -0.163808204376210
mA              -18.325          18.325       Delta : HC->HC MI PGA 10V
Range 100A 10X : 665.00
4507.11176                  Exp= -666.29398  Act= -666.37665
mA                                  HC->HC MI PGA 10V Range 100A
100X
4507.11177                                                  -0.082670999574475
mA              -10.825          10.825       Delta : HC->HC MI PGA 10V
Range 100A 100X : -665.00
4507.11178                  Exp= -1.46231    Act= -1.53036
mA                                  HC->HC MI PGA 10V Range 100A
100X
4507.11179                                                  -0.068053156037114
mA                -7.5             7.5       Delta : HC->HC MI PGA 10V
Range 100A 100X : 0.00
4507.11180                  Exp= 662.67201   Act= 662.60824
mA                                  HC->HC MI PGA 10V Range 100A
100X
4507.11181                                                  -0.063771536615604
mA              -10.825          10.825       Delta : HC->HC MI PGA 10V
Range 100A 100X : 665.00
4507.11182                  Exp= -664.61980  Act= -664.65554
mA                                  HC->HC MI PGA 10V Range 10A
10X
4507.11183                                                  -0.035739243162084
mA               -4.825           4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : -665.00
4507.11184                  Exp= -0.02083    Act= 0.07331
mA                                  HC->HC MI PGA 10V Range 10A
10X
4507.11185                                                   0.094141863004502
mA                -1.5             1.5       Delta : HC->HC MI PGA 10V
Range 10A 10X : 0.00
4507.11186                  Exp= 664.90260   Act= 664.81906
mA                                  HC->HC MI PGA 10V Range 10A
10X
4507.11187                                                  -0.083535917189352
mA               -4.825           4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : 665.00
4507.11188                  Exp= -664.61980  Act= -664.65554
```

```
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11189                                                  -0.035739243162084
mA              -2.6305               2.6305        Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : -665.00
4507.11190                                 Exp= -0.02083    Act= 0.07331
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11191                                                   0.094141863004502
mA                  -1.5                  1.5        Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 0.00
4507.11192                                 Exp= 664.90260   Act= 664.81906
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11193                                                  -0.083535917189352
mA              -2.6305               2.6305        Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 665.00
4507.11194                                 Exp= -66.46516   Act= -66.47131
mA                                                  HC->HC MI PGA 10V Range 10A
100X
4507.11195                                                  -0.006147031294191
mA              -1.0825               1.0825        Delta : HC->HC MI PGA 10V
Range 10A 100X : -66.50
4507.11196                                 Exp= -0.02567    Act= -0.04217
mA                                                  HC->HC MI PGA 10V Range 10A
100X
4507.11197                                                  -0.016503700836256
mA               -0.75                  0.75        Delta : HC->HC MI PGA 10V
Range 10A 100X : 0.00
4507.11198                                 Exp= 66.42044    Act= 66.38735
mA                                                  HC->HC MI PGA 10V Range 10A
100X
4507.11199                                                  -0.033090634515929
mA              -1.0825               1.0825        Delta : HC->HC MI PGA 10V
Range 10A 100X : 66.50
4507.11200                                 Exp= -66.46516   Act= -66.47131
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11201                                                  -0.006147031294191
mA             -0.86305              0.86305        Delta : HC->HC MI With booster
```

```
improved cal check 10V Range 10A 100X : -66.50
4507.11202                                  Exp= -0.02567    Act= -0.04217
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11203                                                  -0.016503700836256
mA                -0.75                  0.75       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 0.00
4507.11204                                  Exp= 66.42044    Act= 66.38735
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11205                                                  -0.033090634515929
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 66.50
4507.11206                                  Exp= -265.98443  Act= -266.00089
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11207                                                  -0.016459841270489
mA               -1.157                1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : -266.00
4507.11208                                  Exp= -0.00219    Act= -0.00242
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11209                                                  -0.000234939853517
mA               -0.625                0.625       Delta : HC->HC MI PGA 10V
Range 4A 10X : 0.00
4507.11210                                  Exp= 266.01669   Act= 266.00106
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11211                                                  -0.015631055987001
mA               -1.157                1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : 266.00
4507.11212                                  Exp= -26.58200   Act= -26.59111
mA                                                  HC->HC MI PGA 10V Range 4A
100X
4507.11213                                                  -0.009105706699987
mA              -0.3652               0.3652       Delta : HC->HC MI PGA 10V
Range 4A 100X : -26.60
4507.11214                                  Exp= 0.00313     Act= -0.00776
mA                                                  HC->HC MI PGA 10V Range 4A
100X
4507.11215                                                  -0.010883339045090
mA               -0.312                0.312       Delta : HC->HC MI PGA 10V
Range 4A 100X : 0.00
```

4507.11216 Exp= 26.59730 Act= 26.58179
mA HC->HC MI PGA 10V Range 4A
100X
4507.11217 -0.015510085974764
mA -0.3652 0.3652 Delta : HC->HC MI PGA 10V
Range 4A 100X : 26.60
4508.10000 HC relays verified
DIB HC Relays Check
4508.10001 0
status 0 DIB HC Relays Check
4508.10002 Measure the HV 20V divider
External HV Source Calibration Factors
4508.10003 0
status 0 External HV Source
Calibration Factors
4508.10004 Measure the HV 200V divider
External HV Source Calibration Factors
4508.10005 0
status 0 External HV Source
Calibration Factors
4508.10006 Measure 2000V path
External HV Source Calibration Factors
4508.10007 0
status 0 External HV Source
Calibration Factors
4508.10008 Measure ATTEN_2
External HV Source Calibration Factors
4508.10009 0
status 0 External HV Source
Calibration Factors
4508.10010 HV cal factors to/from file
External HV Source Calibration Factors
4508.10011 0
status 0 External HV Source
Calibration Factors
4508.10012 External HV Source Cal Data
External HV Source Calibration Factors
4508.10013 0
status 0 External HV Source
Calibration Factors

```
4508.10014                                                    -0.00130
-0.0016294          -0.00097761       External HV Source 20V Range slope
4508.10015                                                    -0.00125
-0.05                 0.05        External HV Source 20V Range offset
4508.10016                                                    -0.01406
-0.017924           -0.010754       External HV Source 200V Range slope
4508.10017                                                    -0.01349
-0.5                  0.5        External HV Source 200V Range offset
4508.10018                                                    -0.12212
-0.15259            -0.091554       External HV Source 2000V Range slope
4508.10019                                                    -0.11667
-5                    5        External HV Source 2000V Range offset
4508.10020                                                     0.48950
Atten_2 value
4508.10021                              Exp= -9.49889    Act= -9.49888
V                                          Volt Meter 10V Range 1X
4508.10022                                          0.000006956133042
V            -0.00595              0.00595       Delta : Volt Meter 10V Range
1X : -9.50
4508.10023                              Exp= 0.00105     Act= 0.00107
V                                          Volt Meter 10V Range 1X
4508.10024                                          0.000020925346541
V             -0.0012               0.0012       Delta : Volt Meter 10V Range
1X : 0.00
4508.10025                              Exp= 9.50107     Act= 9.50106
V                                          Volt Meter 10V Range 1X
4508.10026                                         -0.000002006188597
V            -0.00595              0.00595       Delta : Volt Meter 10V Range
1X : 9.50
4508.10027                              Exp= -28.49902   Act= -28.49898
V                                          Volt Meter 30V Range 1X
4508.10028                                          0.000042367115007
V            -0.01825              0.01825       Delta : Volt Meter 30V Range
1X : -28.50
4508.10029                              Exp= 0.00103     Act= 0.00112
V                                          Volt Meter 30V Range 1X
4508.10030                                          0.000092699823981
V              -0.004                 0.004       Delta : Volt Meter 30V Range
1X : 0.00
4508.10031                              Exp= 28.50107    Act= 28.50110
```

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V                                                    Volt Meter 30V Range 1X
4508.10032                                                  0.000035382051351
V             -0.01825              0.01825          Delta : Volt Meter 30V Range
1X : 28.50
4508.10033                                  Exp= -94.99932    Act= -94.99894
V                                                    Volt Meter 100V Range 1X
4508.10034                                                  0.000383255182626
V                -0.06                 0.06          Delta : Volt Meter 100V Range
1X : -95.00
4508.10035                                  Exp= 0.00094      Act= 0.00104
V                                                    Volt Meter 100V Range 1X
4508.10036                                                  0.000098409112774
V              -0.0125               0.0125          Delta : Volt Meter 100V Range
1X : 0.00
4508.10037                                  Exp= 95.00100     Act= 95.00114
V                                                    Volt Meter 100V Range 1X
4508.10038                                                  0.000146655508175
V                -0.06                 0.06          Delta : Volt Meter 100V Range
1X : 95.00
4508.10039                                  Exp= -0.94892     Act= -0.94891
V                                                    Volt Meter 10V Range 10X
4508.10040                                                  0.000011468575398
V            -0.001075             0.001075          Delta : Volt Meter 10V Range
10X : -0.95
4508.10041                                  Exp= 0.00105      Act= 0.00106
V                                                    Volt Meter 10V Range 10X
4508.10042                                                  0.000006162896623
V              -0.0006               0.0006          Delta : Volt Meter 10V Range
10X : 0.00
4508.10043                                  Exp= 0.95111      Act= 0.95112
V                                                    Volt Meter 10V Range 10X
4508.10044                                                  0.000005964027552
V            -0.001075             0.001075          Delta : Volt Meter 10V Range
10X : 0.95
4508.10045                                  Exp= -0.09393     Act= -0.09392
V                                                    Volt Meter 10V Range 100X
4508.10046                                                  0.000012590373852
V           -0.0003475            0.0003475          Delta : Volt Meter 10V Range
100X : -0.10
4508.10047                                  Exp= 0.00105      Act= 0.00106
```

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V                                                    Volt Meter 10V Range 100X
4508.10048                                                  0.000008293514015
V              -0.0003                0.0003         Delta : Volt Meter 10V Range
100X : 0.00
4508.10049                                  Exp= 0.09605     Act= 0.09606
V                                                    Volt Meter 10V Range 100X
4508.10050                                                  0.000006541634000
V           -0.0003475             0.0003475         Delta : Volt Meter 10V Range
100X : 0.10
4508.10051                                  Exp= -2.84892    Act= -2.84889
V                                                    Volt Meter 30V Range 10X
4508.10052                                                  0.000032386568723
V            -0.003425              0.003425         Delta : Volt Meter 30V Range
10X : -2.85
4508.10053                                  Exp= 0.00106     Act= 0.00107
V                                                    Volt Meter 30V Range 10X
4508.10054                                                  0.000018090627824
V               -0.002                 0.002         Delta : Volt Meter 30V Range
10X : 0.00
4508.10055                                  Exp= 2.85103     Act= 2.85106
V                                                    Volt Meter 30V Range 10X
4508.10056                                                  0.000028003589925
V            -0.003425              0.003425         Delta : Volt Meter 30V Range
10X : 2.85
4508.10057                                  Exp= -0.28396    Act= -0.28393
V                                                    Volt Meter 30V Range 100X
4508.10058                                                  0.000030247148373
V           -0.0011425             0.0011425         Delta : Volt Meter 30V Range
100X : -0.29
4508.10059                                  Exp= 0.00105     Act= 0.00107
V                                                    Volt Meter 30V Range 100X
4508.10060                                                  0.000026543329481
V               -0.001                 0.001         Delta : Volt Meter 30V Range
100X : 0.00
4508.10061                                  Exp= 0.28605     Act= 0.28610
V                                                    Volt Meter 30V Range 100X
4508.10062                                                  0.000049039788404
V           -0.0011425             0.0011425         Delta : Volt Meter 30V Range
100X : 0.29
4508.10063                                  Exp= -9.49898    Act= -9.49886
```

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V                                                    Volt Meter 100V Range 10X
4508.10064                                                  0.000119338517193
V             -0.01075              0.01075          Delta : Volt Meter 100V Range
10X : -9.50
4508.10065                                  Exp= 0.00088     Act= 0.00097
V                                                    Volt Meter 100V Range 10X
4508.10066                                                  0.000092519639952
V               -0.006                0.006          Delta : Volt Meter 100V Range
10X : 0.00
4508.10067                                  Exp= 9.50155     Act= 9.50164
V                                                    Volt Meter 100V Range 10X
4508.10068                                                  0.000088946893420
V             -0.01075              0.01075          Delta : Volt Meter 100V Range
10X : 9.50
4508.10069                                  Exp= -0.94885    Act= -0.94868
V                                                    Volt Meter 100V Range 100X
4508.10070                                                  0.000170599280585
V            -0.003475             0.003475          Delta : Volt Meter 100V Range
100X : -0.95
4508.10071                                  Exp= 0.00087     Act= 0.00101
V                                                    Volt Meter 100V Range 100X
4508.10072                                                  0.000145221061800
V               -0.003                0.003          Delta : Volt Meter 100V Range
100X : 0.00
4508.10073                                  Exp= 0.95138     Act= 0.95156
V                                                    Volt Meter 100V Range 100X
4508.10074                                                  0.000174869325611
V            -0.003475             0.003475          Delta : Volt Meter 100V Range
100X : 0.95
4509.10000                                                                41.5  deg
C                                                    MotherBoard Cal Temperature
4509.10001                                                                42.0  deg
C                                                    MotherBoard Chk Temperature
4509.10002   MotherBoard temperature check Exp = 41.536251, Act = 42.029800
MotherBoard Chk Temperature
4509.10003                                                                   0
status                                          0       MotherBoard Chk
Temperature
4509.10004                                                                48.7  deg
C                                                    Control Board Cal Temperature
```

```
4509.10005                                                              49.3  deg
C                                                  Control Board Chk Temperature
4509.10006 Control Board temperature check Exp = 48.739861, Act = 49.250433
Control Board Chk Temperature
4509.10007                                                                 0
status                                        0       Control Board Chk
Temperature
Datalog for: Check HPU-101            REV 43, Site #0, Bin #1
  TEST#                                                              RESULT
UNITS                LOWER                UPPER ALARM TEST NAME
---------- ------------------------------------------------------------ -----
- ------------------ ------------------ ----- ------------------------------
-----------------------------------------------------
    4500.0                                                                 0
0       If this failed there are Fatal Errors during Startup, Check System
Monitor
 4500.1000                                                  ETS1UOJUM00038
COMPUTER INFORMATION - Name
 4500.1001                                                     1000.000000
V                                              DIAG/CAL INFORMATION - Maximum
Voltage
 4500.1101                                                             0
0       PLD REVISION INFORMATION
 4500.1103                                                             0
0       PLD REVISION INFORMATION
 4500.1105                                                             3
3       PLD REVISION INFORMATION
 4500.1106                                    DATA[0]={0, 0, 1, 0, 5}
PLD REVISION INFORMATION
 4500.1107                                    DATA[1]={0, 1, 1, 0, 8}
PLD REVISION INFORMATION
 4500.1108                                  DATA[2]={0, 0, 1, 0, 1990}
PLD REVISION INFORMATION
4501.10000                                                      -29.99289
V             -30.027              -29.973       LC->LC 16 Bit DRV 30V Range
4501.10001                                              0.007109600000000
V              -0.027                0.027       Delta : LC->LC 16 Bit DRV 30V
Range : -30.00
4501.10002                                                      -25.99833
V             -26.025              -25.975       LC->LC 16 Bit DRV 30V Range
```

4501.10003 0.001674699999999
V -0.025 0.025 Delta : LC->LC 16 Bit DRV 30V Range : -26.00
4501.10004 -22.00023
V -22.023 -21.977 LC->LC 16 Bit DRV 30V Range
4501.10005 -0.000230800000001
V -0.023 0.023 Delta : LC->LC 16 Bit DRV 30V Range : -22.00
4501.10006 -18.00250
V -18.021 -17.979 LC->LC 16 Bit DRV 30V Range
4501.10007 -0.002496699999998
V -0.021 0.021 Delta : LC->LC 16 Bit DRV 30V Range : -18.00
4501.10008 -10.00380
V -10.017 -9.983 LC->LC 16 Bit DRV 30V Range
4501.10009 -0.003798000000000
V -0.017 0.017 Delta : LC->LC 16 Bit DRV 30V Range : -10.00
4501.10010 -0.00474
V -0.012 0.012 LC->LC 16 Bit DRV 30V Range
4501.10011 -0.004741898970000
V -0.012 0.012 Delta : LC->LC 16 Bit DRV 30V Range : 0.00
4501.10012 9.99784
V 9.983 10.017 LC->LC 16 Bit DRV 30V Range
4501.10013 -0.002160549999999
V -0.017 0.017 Delta : LC->LC 16 Bit DRV 30V Range : 10.00
4501.10014 17.99915
V 17.979 18.021 LC->LC 16 Bit DRV 30V Range
4501.10015 -0.000849700000000
V -0.021 0.021 Delta : LC->LC 16 Bit DRV 30V Range : 18.00
4501.10016 22.00065
V 21.977 22.023 LC->LC 16 Bit DRV 30V Range
4501.10017 0.000654200000000
V -0.023 0.023 Delta : LC->LC 16 Bit DRV 30V Range : 22.00
4501.10018 26.00175
V 25.975 26.025 LC->LC 16 Bit DRV 30V Range

4501.10019			0.001749000000000
V	-0.025	0.025	Delta : LC->LC 16 Bit DRV 30V Range : 26.00
4501.10020			30.00233
V	29.973	30.027	LC->LC 16 Bit DRV 30V Range
4501.10021			0.002328899999998
V	-0.027	0.027	Delta : LC->LC 16 Bit DRV 30V Range : 30.00
4501.10022			-9.99819
V	-10.013	-9.987	LC->LC 16 Bit DRV 10V Range
4501.10023			0.001805780000000
V	-0.013	0.013	Delta : LC->LC 16 Bit DRV 10V Range : -10.00
4501.10024			-7.99930
V	-8.012	-7.988	LC->LC 16 Bit DRV 10V Range
4501.10025			0.000700710000000
V	-0.012	0.012	Delta : LC->LC 16 Bit DRV 10V Range : -8.00
4501.10026			-6.00052
V	-6.011	-5.989	LC->LC 16 Bit DRV 10V Range
4501.10027			-0.000521180000000
V	-0.011	0.011	Delta : LC->LC 16 Bit DRV 10V Range : -6.00
4501.10028			-4.00070
V	-4.01	-3.99	LC->LC 16 Bit DRV 10V Range
4501.10029			-0.000698570000000
V	-0.01	0.01	Delta : LC->LC 16 Bit DRV 10V Range : -4.00
4501.10030			-2.00077
V	-2.009	-1.991	LC->LC 16 Bit DRV 10V Range
4501.10031			-0.000770210000000
V	-0.009	0.009	Delta : LC->LC 16 Bit DRV 10V Range : -2.00
4501.10032			-0.00108
V	-0.008	0.008	LC->LC 16 Bit DRV 10V Range
4501.10033			-0.001078913750000
V	-0.008	0.008	Delta : LC->LC 16 Bit DRV 10V Range : 0.00
4501.10034			1.99931
V	1.991	2.009	LC->LC 16 Bit DRV 10V Range

4501.10035			-0.000692900000000
V	-0.009	0.009	Delta : LC->LC 16 Bit DRV 10V Range : 2.00
4501.10036			3.99973
V	3.99	4.01	LC->LC 16 Bit DRV 10V Range
4501.10037			-0.000267390000000
V	-0.01	0.01	Delta : LC->LC 16 Bit DRV 10V Range : 4.00
4501.10038			6.00028
V	5.989	6.011	LC->LC 16 Bit DRV 10V Range
4501.10039			0.000277760000000
V	-0.011	0.011	Delta : LC->LC 16 Bit DRV 10V Range : 6.00
4501.10040			8.00060
V	7.988	8.012	LC->LC 16 Bit DRV 10V Range
4501.10041			0.000596520000000
V	-0.012	0.012	Delta : LC->LC 16 Bit DRV 10V Range : 8.00
4501.10042			10.00144
V	9.987	10.013	LC->LC 16 Bit DRV 10V Range
4501.10043			0.001441500000000
V	-0.013	0.013	Delta : LC->LC 16 Bit DRV 10V Range : 10.00
4502.10000			-30.00068
V	-30.014	-29.987	LC->LC 18 Bit DRV 30V Range
4502.10001			-0.000676200000001
V	-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V Range : -30.00
4502.10002			-15.00146
V	-15.01	-14.99	LC->LC 18 Bit DRV 30V Range
4502.10003			-0.001462000000000
V	-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V Range : -15.00
4502.10004			0.00054
V	-0.006	0.006	LC->LC 18 Bit DRV 30V Range
4502.10005			0.000544073613000
V	-0.006	0.006	Delta : LC->LC 18 Bit DRV 30V Range : 0.00
4502.10006			15.00115
V	14.99	15.01	LC->LC 18 Bit DRV 30V Range

```
4502.10007                                          0.001149699999999
V              -0.00975          0.00975       Delta : LC->LC 18 Bit DRV 30V
Range : 15.00
4502.10008                                                    29.99957
V               29.987           30.014       LC->LC 18 Bit DRV 30V Range
4502.10009                                          -0.000434899999998
V              -0.0135           0.0135       Delta : LC->LC 18 Bit DRV 30V
Range : 30.00
4502.10010                                                    -9.99996
V              -10.007           -9.9935      LC->LC 18 Bit DRV 10V Range
4502.10011                                           0.000040050000001
V              -0.0065           0.0065       Delta : LC->LC 18 Bit DRV 10V
Range : -10.00
4502.10012                                                    -5.00025
V              -5.0053           -4.9948      LC->LC 18 Bit DRV 10V Range
4502.10013                                          -0.000246760000000
V             -0.00525          0.00525       Delta : LC->LC 18 Bit DRV 10V
Range : -5.00
4502.10014                                                     0.00011
V               -0.004            0.004       LC->LC 18 Bit DRV 10V Range
4502.10015                                           0.000107223532000
V               -0.004            0.004       Delta : LC->LC 18 Bit DRV 10V
Range : 0.00
4502.10016                                                     5.00025
V               4.9948            5.0053      LC->LC 18 Bit DRV 10V Range
4502.10017                                           0.000253200000000
V             -0.00525          0.00525       Delta : LC->LC 18 Bit DRV 10V
Range : 5.00
4502.10018                                                     9.99985
V               9.9935            10.007      LC->LC 18 Bit DRV 10V Range
4502.10019                                          -0.000146870000000
V              -0.0065           0.0065       Delta : LC->LC 18 Bit DRV 10V
Range : 10.00
4503.10000                                                   -100.00020
V              -100.04           -99.963      LC->LC V/I Mode FV 100V Range
4503.10001                                          -0.000195000000005
V              -0.0375           0.0375       Delta : LC->LC V/I Mode FV 100V
Range : -100.00
4503.10002                          Exp= -100.00020  Act= -100.00031
V                                               LC->LC V/I Mode MV 100V Range
```

```
4503.10003                                                  -0.000113735513352
V              -0.0375          0.0375       Delta : LC->LC V/I Mode MV 100V
Range : -100.00
4503.10004                                                       -49.99976
V              -50.025          -49.975      LC->LC V/I Mode FV 100V Range
4503.10005                                                  0.000240300000002
V               -0.025           0.025       Delta : LC->LC V/I Mode FV 100V
Range : -50.00
4503.10006                    Exp= -49.99976   Act= -49.99916
V                                  LC->LC V/I Mode MV 100V Range
4503.10007                                                  0.000601603745523
V               -0.025           0.025       Delta : LC->LC V/I Mode MV 100V
Range : -50.00
4503.10008                                                         0.00042
V              -0.0125          0.0125       LC->LC V/I Mode FV 100V Range
4503.10009                                                  0.000415904215000
V              -0.0125          0.0125       Delta : LC->LC V/I Mode FV 100V
Range : 0.00
4503.10010                    Exp= 0.00042     Act= 0.00041
V                                  LC->LC V/I Mode MV 100V Range
4503.10011                                                 -0.000003457608154
V              -0.0125          0.0125       Delta : LC->LC V/I Mode MV 100V
Range : 0.00
4503.10012                                                        50.00107
V               49.975          50.025       LC->LC V/I Mode FV 100V Range
4503.10013                                                  0.001069999999999
V               -0.025           0.025       Delta : LC->LC V/I Mode FV 100V
Range : 50.00
4503.10014                    Exp= 50.00107    Act= 50.00085
V                                  LC->LC V/I Mode MV 100V Range
4503.10015                                                 -0.000216765472736
V               -0.025           0.025       Delta : LC->LC V/I Mode MV 100V
Range : 50.00
4503.10016                                                        99.99994
V               99.963          100.04       LC->LC V/I Mode FV 100V Range
4503.10017                                                 -0.000061000000002
V              -0.0375          0.0375       Delta : LC->LC V/I Mode FV 100V
Range : 100.00
4503.10018                    Exp= 99.99994    Act= 99.99944
V                                  LC->LC V/I Mode MV 100V Range
```

```
4503.10019                                          -0.000500934688191
V              -0.0375          0.0375       Delta : LC->LC V/I Mode MV 100V
Range : 100.00
4503.10020                                                  -30.00002
V               -30.01          -29.99       LC->LC V/I Mode FV 30V Range
4503.10021                                          -0.000019999999999
V                -0.01            0.01       Delta : LC->LC V/I Mode FV 30V
Range : -30.00
4503.10022                          Exp= -30.00002   Act= -29.99996
V                                       LC->LC V/I Mode MV 30V Range
4503.10023                                           0.000062134965532
V                -0.01            0.01       Delta : LC->LC V/I Mode MV 30V
Range : -30.00
4503.10024                                                  -15.00006
V              -15.006          -14.994       LC->LC V/I Mode FV 30V Range
4503.10025                                          -0.000062000000000
V             -0.00625         0.00625       Delta : LC->LC V/I Mode FV 30V
Range : -15.00
4503.10026                          Exp= -15.00006   Act= -15.00026
V                                       LC->LC V/I Mode MV 30V Range
4503.10027                                          -0.000193932953081
V             -0.00625         0.00625       Delta : LC->LC V/I Mode MV 30V
Range : -15.00
4503.10028                                                   0.00014
V              -0.0025          0.0025       LC->LC V/I Mode FV 30V Range
4503.10029                                           0.000139250340000
V              -0.0025          0.0025       Delta : LC->LC V/I Mode FV 30V
Range : 0.00
4503.10030                          Exp= 0.00014     Act= 0.00009
V                                       LC->LC V/I Mode MV 30V Range
4503.10031                                          -0.000045290349091
V              -0.0025          0.0025       Delta : LC->LC V/I Mode MV 30V
Range : 0.00
4503.10032                                                   15.00021
V               14.994          15.006       LC->LC V/I Mode FV 30V Range
4503.10033                                           0.000213600000000
V             -0.00625         0.00625       Delta : LC->LC V/I Mode FV 30V
Range : 15.00
4503.10034                          Exp= 15.00021    Act= 15.00012
V                                       LC->LC V/I Mode MV 30V Range
```

```
4503.10035                                                  -0.000096521043528
V              -0.00625          0.00625       Delta : LC->LC V/I Mode MV 30V
Range : 15.00
4503.10036                                                        29.99988
V                29.99            30.01       LC->LC V/I Mode FV 30V Range
4503.10037                                                  -0.000116299999998
V                -0.01             0.01       Delta : LC->LC V/I Mode FV 30V
Range : 30.00
4503.10038                          Exp= 29.99988    Act= 29.99995
V                                               LC->LC V/I Mode MV 30V Range
4503.10039                                                   0.000061307200244
V                -0.01             0.01       Delta : LC->LC V/I Mode MV 30V
Range : 30.00
4503.10040                                                       -10.00002
V              -10.003           -9.9967       LC->LC V/I Mode FV 10V Range
4503.10041                                                  -0.000020500000000
V              -0.0033            0.0033       Delta : LC->LC V/I Mode FV 10V
Range : -10.00
4503.10042                          Exp= -10.00002   Act= -10.00001
V                                               LC->LC V/I Mode MV 10V Range
4503.10043                                                   0.000008661290611
V              -0.0033            0.0033       Delta : LC->LC V/I Mode MV 10V
Range : -10.00
4503.10044                                                        -5.00005
V              -5.0021             -4.998       LC->LC V/I Mode FV 10V Range
4503.10045                                                  -0.000050070000000
V             -0.00205           0.00205       Delta : LC->LC V/I Mode FV 10V
Range : -5.00
4503.10046                          Exp= -5.00005    Act= -5.00007
V                                               LC->LC V/I Mode MV 10V Range
4503.10047                                                  -0.000023784166499
V             -0.00205           0.00205       Delta : LC->LC V/I Mode MV 10V
Range : -5.00
4503.10048                                                         0.00000
V              -0.0008            0.0008       LC->LC V/I Mode FV 10V Range
4503.10049                                                   0.000002250734890
V              -0.0008            0.0008       Delta : LC->LC V/I Mode FV 10V
Range : 0.00
4503.10050                          Exp= 0.00000     Act= 0.00000
V                                               LC->LC V/I Mode MV 10V Range
```

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4503.10051                                                  0.000002172250660
V              -0.0008              0.0008       Delta : LC->LC V/I Mode MV 10V
Range : 0.00
4503.10052                                                          5.00006
V               4.998               5.0021       LC->LC V/I Mode FV 10V Range
4503.10053                                                  0.000061750000000
V              -0.00205             0.00205      Delta : LC->LC V/I Mode FV 10V
Range : 5.00
4503.10054                          Exp= 5.00006     Act= 5.00008
V                                           LC->LC V/I Mode MV 10V Range
4503.10055                                                  0.000016673714385
V              -0.00205             0.00205      Delta : LC->LC V/I Mode MV 10V
Range : 5.00
4503.10056                                                         10.00000
V               9.9967              10.003       LC->LC V/I Mode FV 10V Range
4503.10057                                                 -0.000001429999999
V              -0.0033              0.0033       Delta : LC->LC V/I Mode FV 10V
Range : 10.00
4503.10058                          Exp= 10.00000    Act= 9.99997
V                                           LC->LC V/I Mode MV 10V Range
4503.10059                                                 -0.000025855940619
V              -0.0033              0.0033       Delta : LC->LC V/I Mode MV 10V
Range : 10.00
4503.10060                                                         -74.99922
V              -75.031              -74.969      HC->HC V/I Mode FV 75V Range
4503.10061                                                  0.000778199999999
V              -0.03125             0.03125      Delta : HC->HC V/I Mode FV 75V
Range : -75.00
4503.10062                          Exp= -74.99922   Act= -74.99944
V                                           HC->HC V/I Mode MV 75V Range
4503.10063                                                 -0.000217825052914
V              -0.03125             0.03125      Delta : HC->HC V/I Mode MV 75V
Range : -75.00
4503.10064                                                         -37.49983
V              -37.522              -37.478      HC->HC V/I Mode FV 75V Range
4503.10065                                                  0.000167800000000
V             -0.021875            0.021875      Delta : HC->HC V/I Mode FV 75V
Range : -37.50
4503.10066                          Exp= -37.49983   Act= -37.49948
V                                           HC->HC V/I Mode MV 75V Range
```

4503.10067 0.000349469661899
V -0.021875 0.021875 Delta : HC->HC V/I Mode MV 75V Range : -37.50
4503.10068 0.00008
V -0.0125 0.0125 HC->HC V/I Mode FV 75V Range
4503.10069 0.000080890782600
V -0.0125 0.0125 Delta : HC->HC V/I Mode FV 75V Range : 0.00
4503.10070 Exp= 0.00008 Act= 0.00052
V HC->HC V/I Mode MV 75V Range
4503.10071 0.000437377244779
V -0.0125 0.0125 Delta : HC->HC V/I Mode MV 75V Range : 0.00
4503.10072 37.50037
V 37.478 37.522 HC->HC V/I Mode FV 75V Range
4503.10073 0.000366200000002
V -0.021875 0.021875 Delta : HC->HC V/I Mode FV 75V Range : 37.50
4503.10074 Exp= 37.50037 Act= 37.50113
V HC->HC V/I Mode MV 75V Range
4503.10075 0.000765127427634
V -0.021875 0.021875 Delta : HC->HC V/I Mode MV 75V Range : 37.50
4503.10076 74.99942
V 74.969 75.031 HC->HC V/I Mode FV 75V Range
4503.10077 -0.000583599999999
V -0.03125 0.03125 Delta : HC->HC V/I Mode FV 75V Range : 75.00
4503.10078 Exp= 74.99942 Act= 74.99973
V HC->HC V/I Mode MV 75V Range
4503.10079 0.000311204807630
V -0.03125 0.03125 Delta : HC->HC V/I Mode MV 75V Range : 75.00
4503.10080 -30.00016
V -30.01 -29.99 HC->HC V/I Mode FV 30V Range
4503.10081 -0.000156400000002
V -0.01 0.01 Delta : HC->HC V/I Mode FV 30V Range : -30.00
4503.10082 Exp= -30.00016 Act= -29.99997
V HC->HC V/I Mode MV 30V Range

```
4503.10083                                          0.000182564486789
V                -0.01                0.01       Delta : HC->HC V/I Mode MV 30V
Range : -30.00
4503.10084                                                 -15.00019
V              -15.006              -14.994       HC->HC V/I Mode FV 30V Range
4503.10085                                         -0.000187400000000
V             -0.00625             0.00625       Delta : HC->HC V/I Mode FV 30V
Range : -15.00
4503.10086                          Exp= -15.00019    Act= -15.00022
V                                              HC->HC V/I Mode MV 30V Range
4503.10087                                         -0.000031406492472
V             -0.00625             0.00625       Delta : HC->HC V/I Mode MV 30V
Range : -15.00
4503.10088                                                  0.00010
V              -0.0025              0.0025       HC->HC V/I Mode FV 30V Range
4503.10089                                          0.000101575184000
V              -0.0025              0.0025       Delta : HC->HC V/I Mode FV 30V
Range : 0.00
4503.10090                          Exp= 0.00010     Act= 0.00013
V                                              HC->HC V/I Mode MV 30V Range
4503.10091                                          0.000033164366752
V              -0.0025              0.0025       Delta : HC->HC V/I Mode MV 30V
Range : 0.00
4503.10092                                                  15.00014
V               14.994               15.006       HC->HC V/I Mode FV 30V Range
4503.10093                                          0.000144499999999
V             -0.00625             0.00625       Delta : HC->HC V/I Mode FV 30V
Range : 15.00
4503.10094                          Exp= 15.00014    Act= 15.00018
V                                              HC->HC V/I Mode MV 30V Range
4503.10095                                          0.000030924667263
V             -0.00625             0.00625       Delta : HC->HC V/I Mode MV 30V
Range : 15.00
4503.10096                                                  29.99987
V               29.99                30.01       HC->HC V/I Mode FV 30V Range
4503.10097                                         -0.000128700000001
V                -0.01                0.01       Delta : HC->HC V/I Mode FV 30V
Range : 30.00
4503.10098                          Exp= 29.99987    Act= 29.99971
V                                              HC->HC V/I Mode MV 30V Range
```

```
4503.10099                                          -0.000163002374421
V                -0.01                0.01       Delta : HC->HC V/I Mode MV 30V
Range : 30.00
4503.10100                                                  -10.00003
V              -10.003              -9.9967       HC->HC V/I Mode FV 10V Range
4503.10101                                          -0.000029100000001
V              -0.0033               0.0033       Delta : HC->HC V/I Mode FV 10V
Range : -10.00
4503.10102                      Exp= -10.00003    Act= -10.00002
V                                                  HC->HC V/I Mode MV 10V Range
4503.10103                                           0.000006337995664
V              -0.0033               0.0033       Delta : HC->HC V/I Mode MV 10V
Range : -10.00
4503.10104                                                   -4.99999
V              -5.0021               -4.998       HC->HC V/I Mode FV 10V Range
4503.10105                                           0.000005010000000
V             -0.00205              0.00205       Delta : HC->HC V/I Mode FV 10V
Range : -5.00
4503.10106                      Exp= -4.99999     Act= -5.00005
V                                                  HC->HC V/I Mode MV 10V Range
4503.10107                                          -0.000055530011046
V             -0.00205              0.00205       Delta : HC->HC V/I Mode MV 10V
Range : -5.00
4503.10108                                                    0.00006
V              -0.0008               0.0008       HC->HC V/I Mode FV 10V Range
4503.10109                                           0.000057928749800
V              -0.0008               0.0008       Delta : HC->HC V/I Mode FV 10V
Range : 0.00
4503.10110                      Exp= 0.00006      Act= 0.00009
V                                                  HC->HC V/I Mode MV 10V Range
4503.10111                                           0.000033449547517
V              -0.0008               0.0008       Delta : HC->HC V/I Mode MV 10V
Range : 0.00
4503.10112                                                    5.00004
V                4.998               5.0021       HC->HC V/I Mode FV 10V Range
4503.10113                                           0.000041960000000
V             -0.00205              0.00205       Delta : HC->HC V/I Mode FV 10V
Range : 5.00
4503.10114                      Exp= 5.00004      Act= 5.00008
V                                                  HC->HC V/I Mode MV 10V Range
```

4503.10115 0.000034472555806
V -0.00205 0.00205 Delta : HC->HC V/I Mode MV 10V Range : 5.00
4503.10116 9.99998
V 9.9967 10.003 HC->HC V/I Mode FV 10V Range
4503.10117 -0.000021930000001
V -0.0033 0.0033 Delta : HC->HC V/I Mode FV 10V Range : 10.00
4503.10118 Exp= 9.99998 Act= 10.00001
V HC->HC V/I Mode MV 10V Range
4503.10119 0.000030532158082
V -0.0033 0.0033 Delta : HC->HC V/I Mode MV 10V Range : 10.00
4503.10120 HC relays OK
DIB HC Relays Check
4503.10121 0
status 0 DIB HC Relays Check
4504.11000 HC relays verified
DIB HC Relays Check
4504.11001 0
status 0 DIB HC Relays Check
4504.11002 -500.00137
mA -500.38 -499.63 LC->LC FI 100V Range 500mA
4504.11003 -0.001370999999949
mA -0.375 0.375 Delta : LC->LC FI 100V Range 500mA : -500.00
4504.11004 Exp= -500.00137 Act= -499.99226
mA LC->LC MI 100V Range 500mA
4504.11005 0.009109724100654
mA -0.375 0.375 Delta : LC->LC MI 100V Range 500mA : -500.00
4504.11006 -249.99978
mA -250.25 -249.75 LC->LC FI 100V Range 500mA
4504.11007 0.000224000000003
mA -0.25 0.25 Delta : LC->LC FI 100V Range 500mA : -250.00
4504.11008 Exp= -249.99978 Act= -249.99579
mA LC->LC MI 100V Range 500mA
4504.11009 0.003989086341534
mA -0.25 0.25 Delta : LC->LC MI 100V Range

500mA : -250.00
4504.11010 0.00299
mA -0.125 0.125 LC->LC FI 100V Range 500mA
4504.11011 0.002991821870000
mA -0.125 0.125 Delta : LC->LC FI 100V Range
500mA : 0.00
4504.11012 Exp= 0.00299 Act= 0.00339
mA LC->LC MI 100V Range 500mA
4504.11013 0.000395787394230
mA -0.125 0.125 Delta : LC->LC MI 100V Range
500mA : 0.00
4504.11014 250.00534
mA 249.75 250.25 LC->LC FI 100V Range 500mA
4504.11015 0.005335000000002
mA -0.25 0.25 Delta : LC->LC FI 100V Range
500mA : 250.00
4504.11016 Exp= 250.00534 Act= 250.00907
mA LC->LC MI 100V Range 500mA
4504.11017 0.003738360572243
mA -0.25 0.25 Delta : LC->LC MI 100V Range
500mA : 250.00
4504.11018 499.99759
mA 499.63 500.38 LC->LC FI 100V Range 500mA
4504.11019 -0.002413999999987
mA -0.375 0.375 Delta : LC->LC FI 100V Range
500mA : 500.00
4504.11020 Exp= 499.99759 Act= 499.99133
mA LC->LC MI 100V Range 500mA
4504.11021 -0.006252630902566
mA -0.375 0.375 Delta : LC->LC MI 100V Range
500mA : 500.00
4504.11022 -950.00923
mA -950.6 -949.4 LC->LC FI 30V Range 1A
4504.11023 -0.009227000000010
mA -0.6 0.6 Delta : LC->LC FI 30V Range
1A : -950.00
4504.11024 Exp= -950.00923 Act= -949.99812
mA LC->LC MI 30V Range 1A
4504.11025 0.011108963932884
mA -0.6 0.6 Delta : LC->LC MI 30V Range

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1A : -950.00
4504.11026                                                    -474.99506
mA              -475.36          -474.64       LC->LC FI 30V Range 1A
4504.11027                                            0.004937999999981
mA              -0.3625           0.3625       Delta : LC->LC FI 30V Range
1A : -475.00
4504.11028                          Exp= -474.99506  Act= -474.98819
mA                                        LC->LC MI 30V Range 1A
4504.11029                                            0.006871719694630
mA              -0.3625           0.3625       Delta : LC->LC MI 30V Range
1A : -475.00
4504.11030                                                    0.00104
mA               -0.125            0.125       LC->LC FI 30V Range 1A
4504.11031                                            0.001035630590000
mA               -0.125            0.125       Delta : LC->LC FI 30V Range
1A : 0.00
4504.11032                          Exp= 0.00104     Act= 0.00607
mA                                        LC->LC MI 30V Range 1A
4504.11033                                            0.005036897600466
mA               -0.125            0.125       Delta : LC->LC MI 30V Range
1A : 0.00
4504.11034                                                    475.00214
mA                474.64           475.36       LC->LC FI 30V Range 1A
4504.11035                                            0.002139999999997
mA              -0.3625           0.3625       Delta : LC->LC FI 30V Range
1A : 475.00
4504.11036                          Exp= 475.00214   Act= 475.01170
mA                                        LC->LC MI 30V Range 1A
4504.11037                                            0.009556774055909
mA              -0.3625           0.3625       Delta : LC->LC MI 30V Range
1A : 475.00
4504.11038                                                    950.00514
mA                949.4            950.6       LC->LC FI 30V Range 1A
4504.11039                                            0.005143999999973
mA                 -0.6              0.6       Delta : LC->LC FI 30V Range
1A : 950.00
4504.11040                          Exp= 950.00514   Act= 950.01876
mA                                        LC->LC MI 30V Range 1A
4504.11041                                            0.013613392560046
mA                 -0.6              0.6       Delta : LC->LC MI 30V Range
```

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1A : 950.00
4504.11042                                                  -100.00002
mA              -100.06          -99.938       LC->LC FI 30V Range 100mA
4504.11043                                          -0.000019999999992
mA              -0.0625           0.0625       Delta : LC->LC FI 30V Range
100mA : -100.00
4504.11044                          Exp= -100.00002  Act= -99.99871
mA                                        LC->LC MI 30V Range 100mA
4504.11045                                           0.001305340117952
mA              -0.0625           0.0625       Delta : LC->LC MI 30V Range
100mA : -100.00
4504.11046                                                  -50.00089
mA              -50.038          -49.963       LC->LC FI 30V Range 100mA
4504.11047                                          -0.000892999999998
mA              -0.0375           0.0375       Delta : LC->LC FI 30V Range
100mA : -50.00
4504.11048                          Exp= -50.00089   Act= -49.99927
mA                                        LC->LC MI 30V Range 100mA
4504.11049                                           0.001627708407987
mA              -0.0375           0.0375       Delta : LC->LC MI 30V Range
100mA : -50.00
4504.11050                                                   -0.00025
mA              -0.0125           0.0125       LC->LC FI 30V Range 100mA
4504.11051                                          -0.000253886498000
mA              -0.0125           0.0125       Delta : LC->LC FI 30V Range
100mA : 0.00
4504.11052                          Exp= -0.00025    Act= 0.00016
mA                                        LC->LC MI 30V Range 100mA
4504.11053                                           0.000412048709278
mA              -0.0125           0.0125       Delta : LC->LC MI 30V Range
100mA : 0.00
4504.11054                                                   50.00099
mA               49.963           50.038       LC->LC FI 30V Range 100mA
4504.11055                                           0.000991700000000
mA              -0.0375           0.0375       Delta : LC->LC FI 30V Range
100mA : 50.00
4504.11056                          Exp= 50.00099    Act= 50.00041
mA                                        LC->LC MI 30V Range 100mA
4504.11057                                          -0.000577926920130
mA              -0.0375           0.0375       Delta : LC->LC MI 30V Range
```

100mA : 50.00
4504.11058 100.00010
mA 99.938 100.06 LC->LC FI 30V Range 100mA
4504.11059 0.000101999999998
mA -0.0625 0.0625 Delta : LC->LC FI 30V Range
100mA : 100.00
4504.11060 Exp= 100.00010 Act= 100.00002
mA LC->LC MI 30V Range 100mA
4504.11061 -0.000085268673374
mA -0.0625 0.0625 Delta : LC->LC MI 30V Range
100mA : 100.00
4504.11062 -10.00003
mA -10.006 -9.9938 LC->LC FI 30V Range 10mA
4504.11063 -0.000027300000001
mA -0.00625 0.00625 Delta : LC->LC FI 30V Range
10mA : -10.00
4504.11064 Exp= -10.00003 Act= -10.00000
mA LC->LC MI 30V Range 10mA
4504.11065 0.000024994726957
mA -0.00625 0.00625 Delta : LC->LC MI 30V Range
10mA : -10.00
4504.11066 -5.00003
mA -5.0038 -4.9963 LC->LC FI 30V Range 10mA
4504.11067 -0.000025030000000
mA -0.00375 0.00375 Delta : LC->LC FI 30V Range
10mA : -5.00
4504.11068 Exp= -5.00003 Act= -4.99995
mA LC->LC MI 30V Range 10mA
4504.11069 0.000078008991438
mA -0.00375 0.00375 Delta : LC->LC MI 30V Range
10mA : -5.00
4504.11070 0.00001
mA -0.00125 0.00125 LC->LC FI 30V Range 10mA
4504.11071 0.000006233530580
mA -0.00125 0.00125 Delta : LC->LC FI 30V Range
10mA : 0.00
4504.11072 Exp= 0.00001 Act= 0.00002
mA LC->LC MI 30V Range 10mA
4504.11073 0.000017254860728
mA -0.00125 0.00125 Delta : LC->LC MI 30V Range

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10mA : 0.00
4504.11074                                                    5.00008
mA              4.9963          5.0038      LC->LC FI 30V Range 10mA
4504.11075                                    0.000076490000000
mA             -0.00375         0.00375     Delta : LC->LC FI 30V Range
10mA : 5.00
4504.11076                  Exp= 5.00008     Act= 5.00020
mA                                LC->LC MI 30V Range 10mA
4504.11077                                    0.000119087015690
mA             -0.00375         0.00375     Delta : LC->LC MI 30V Range
10mA : 5.00
4504.11078                                                    10.00001
mA              9.9938          10.006      LC->LC FI 30V Range 10mA
4504.11079                                    0.000007700000001
mA             -0.00625         0.00625     Delta : LC->LC FI 30V Range
10mA : 10.00
4504.11080                  Exp= 10.00001    Act= 10.00001
mA                                LC->LC MI 30V Range 10mA
4504.11081                                   -0.000000638012692
mA             -0.00625         0.00625     Delta : LC->LC MI 30V Range
10mA : 10.00
4504.11082                                                    -1.00000
mA              -1.0006         -0.99938    LC->LC FI 30V Range 1mA
4504.11083                                    0.000001000000000
mA            -0.000625        0.000625     Delta : LC->LC FI 30V Range
1mA : -1.00
4504.11084                  Exp= -1.00000    Act= -0.99999
mA                                LC->LC MI 30V Range 1mA
4504.11085                                    0.000004933487880
mA            -0.000625        0.000625     Delta : LC->LC MI 30V Range
1mA : -1.00
4504.11086                                                    -0.50000
mA             -0.50038        -0.49963    LC->LC FI 30V Range 1mA
4504.11087                                   -0.000003138000000
mA            -0.000375        0.000375     Delta : LC->LC FI 30V Range
1mA : -0.50
4504.11088                  Exp= -0.50000    Act= -0.49999
mA                                LC->LC MI 30V Range 1mA
4504.11089                                    0.000012357653079
mA            -0.000375        0.000375     Delta : LC->LC MI 30V Range
```

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1mA : -0.50
4504.11090                                                    0.00001
mA            -0.000125          0.000125       LC->LC FI 30V Range 1mA
4504.11091                                          0.000007413023310
mA            -0.000125          0.000125       Delta : LC->LC FI 30V Range
1mA : 0.00
4504.11092                          Exp= 0.00001     Act= 0.00001
mA                                        LC->LC MI 30V Range 1mA
4504.11093                                          0.000000971237413
mA            -0.000125          0.000125       Delta : LC->LC MI 30V Range
1mA : 0.00
4504.11094                                                    0.50001
mA              0.49963           0.50038       LC->LC FI 30V Range 1mA
4504.11095                                          0.000005874000000
mA            -0.000375          0.000375       Delta : LC->LC FI 30V Range
1mA : 0.50
4504.11096                          Exp= 0.50001     Act= 0.50001
mA                                        LC->LC MI 30V Range 1mA
4504.11097                                          0.000008883797413
mA            -0.000375          0.000375       Delta : LC->LC MI 30V Range
1mA : 0.50
4504.11098                                                    1.00000
mA              0.99938            1.0006       LC->LC FI 30V Range 1mA
4504.11099                                         -0.000003911000000
mA            -0.000625          0.000625       Delta : LC->LC FI 30V Range
1mA : 1.00
4504.11100                          Exp= 1.00000     Act= 1.00000
mA                                        LC->LC MI 30V Range 1mA
4504.11101                                          0.000001141193498
mA            -0.000625          0.000625       Delta : LC->LC MI 30V Range
1mA : 1.00
4504.11102                                                  -949.99608
mA              -950.73           -949.28       LC->LC FI 10V Range 2A
4504.11103                                          0.003916000000004
mA               -0.725             0.725       Delta : LC->LC FI 10V Range
2A : -950.00
4504.11104                          Exp= -949.99608  Act= -950.00816
mA                                        LC->LC MI 10V Range 2A
4504.11105                                         -0.012074238355581
mA               -0.725             0.725       Delta : LC->LC MI 10V Range
```

2A : -950.00
4504.11106 -475.00168
mA -475.49 -474.51 LC->LC FI 10V Range 2A
4504.11107 -0.001677999999970
mA -0.4875 0.4875 Delta : LC->LC FI 10V Range
2A : -475.00
4504.11108 Exp= -475.00168 Act= -474.99426
mA LC->LC MI 10V Range 2A
4504.11109 0.007416972541705
mA -0.4875 0.4875 Delta : LC->LC MI 10V Range
2A : -475.00
4504.11110 0.00318
mA -0.25 0.25 LC->LC FI 10V Range 2A
4504.11111 0.003183605260000
mA -0.25 0.25 Delta : LC->LC FI 10V Range
2A : 0.00
4504.11112 Exp= 0.00318 Act= 0.00740
mA LC->LC MI 10V Range 2A
4504.11113 0.004220990168325
mA -0.25 0.25 Delta : LC->LC MI 10V Range
2A : 0.00
4504.11114 474.99563
mA 474.51 475.49 LC->LC FI 10V Range 2A
4504.11115 -0.004371999999989
mA -0.4875 0.4875 Delta : LC->LC FI 10V Range
2A : 475.00
4504.11116 Exp= 474.99563 Act= 475.00586
mA LC->LC MI 10V Range 2A
4504.11117 0.010231007364610
mA -0.4875 0.4875 Delta : LC->LC MI 10V Range
2A : 475.00
4504.11118 949.99561
mA 949.28 950.73 LC->LC FI 10V Range 2A
4504.11119 -0.004393000000050
mA -0.725 0.725 Delta : LC->LC FI 10V Range
2A : 950.00
4504.11120 Exp= 949.99561 Act= 950.02569
mA LC->LC MI 10V Range 2A
4504.11121 0.030087285917603
mA -0.725 0.725 Delta : LC->LC MI 10V Range

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2A : 950.00
4504.11122                                                    -199.99642
mA                -200.13          -199.88       LC->LC FI 10V Range 200mA
4504.11123                                          0.003580999999997
mA                 -0.125            0.125       Delta : LC->LC FI 10V Range
200mA : -200.00
4504.11124                      Exp= -199.99642  Act= -199.99728
mA                                              LC->LC MI 10V Range 200mA
4504.11125                                        -0.000856412667304
mA                 -0.125            0.125       Delta : LC->LC MI 10V Range
200mA : -200.00
4504.11126                                                    -99.99961
mA                -100.08          -99.925       LC->LC FI 10V Range 200mA
4504.11127                                          0.000389699999999
mA                 -0.075            0.075       Delta : LC->LC FI 10V Range
200mA : -100.00
4504.11128                      Exp= -99.99961   Act= -99.99855
mA                                              LC->LC MI 10V Range 200mA
4504.11129                                          0.001065240864605
mA                 -0.075            0.075       Delta : LC->LC MI 10V Range
200mA : -100.00
4504.11130                                                     -0.00322
mA                 -0.025            0.025       LC->LC FI 10V Range 200mA
4504.11131                                        -0.003221961950000
mA                 -0.025            0.025       Delta : LC->LC FI 10V Range
200mA : 0.00
4504.11132                      Exp= -0.00322    Act= 0.00178
mA                                              LC->LC MI 10V Range 200mA
4504.11133                                          0.004997832873752
mA                 -0.025            0.025       Delta : LC->LC MI 10V Range
200mA : 0.00
4504.11134                                                     100.00068
mA                 99.925           100.08       LC->LC FI 10V Range 200mA
4504.11135                                          0.000683000000009
mA                 -0.075            0.075       Delta : LC->LC FI 10V Range
200mA : 100.00
4504.11136                      Exp= 100.00068   Act= 100.00134
mA                                              LC->LC MI 10V Range 200mA
4504.11137                                          0.000657937173742
mA                 -0.075            0.075       Delta : LC->LC MI 10V Range
```

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200mA : 100.00
4504.11138                                                    200.00202
mA              199.88          200.13      LC->LC FI 10V Range 200mA
4504.11139                                                0.002022000000011
mA              -0.125           0.125      Delta : LC->LC FI 10V Range
200mA : 200.00
4504.11140                  Exp= 200.00202   Act= 200.00037
mA                                  LC->LC MI 10V Range 200mA
4504.11141                                     -0.001655355498571
mA              -0.125           0.125      Delta : LC->LC MI 10V Range
200mA : 200.00
4504.11142                                                   -20.00011
mA             -20.013         -19.988      LC->LC FI 10V Range 20mA
4504.11143                                        -0.000113199999998
mA             -0.0125          0.0125      Delta : LC->LC FI 10V Range
20mA : -20.00
4504.11144                  Exp= -20.00011   Act= -19.99991
mA                                  LC->LC MI 10V Range 20mA
4504.11145                                        0.000200290446053
mA             -0.0125          0.0125      Delta : LC->LC MI 10V Range
20mA : -20.00
4504.11146                                                    -9.99992
mA             -10.008          -9.9925      LC->LC FI 10V Range 20mA
4504.11147                                        0.000075659999998
mA             -0.0075          0.0075      Delta : LC->LC FI 10V Range
20mA : -10.00
4504.11148                  Exp= -9.99992    Act= -9.99983
mA                                  LC->LC MI 10V Range 20mA
4504.11149                                        0.000097994902690
mA             -0.0075          0.0075      Delta : LC->LC MI 10V Range
20mA : -10.00
4504.11150                                                     0.00006
mA             -0.0025          0.0025      LC->LC FI 10V Range 20mA
4504.11151                                        0.000060131012200
mA             -0.0025          0.0025      Delta : LC->LC FI 10V Range
20mA : 0.00
4504.11152                  Exp= 0.00006     Act= 0.00006
mA                                  LC->LC MI 10V Range 20mA
4504.11153                                        0.000004786400905
mA             -0.0025          0.0025      Delta : LC->LC MI 10V Range
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20mA : 0.00
4504.11154                                                    10.00017
mA              9.9925          10.008      LC->LC FI 10V Range 20mA
4504.11155                                          0.000165100000000
mA              -0.0075         0.0075      Delta : LC->LC FI 10V Range
20mA : 10.00
4504.11156                      Exp= 10.00017    Act= 10.00027
mA                                      LC->LC MI 10V Range 20mA
4504.11157                                          0.000106994260983
mA              -0.0075         0.0075      Delta : LC->LC MI 10V Range
20mA : 10.00
4504.11158                                                    20.00002
mA              19.988          20.013      LC->LC FI 10V Range 20mA
4504.11159                                          0.000016299999999
mA              -0.0125         0.0125      Delta : LC->LC FI 10V Range
20mA : 20.00
4504.11160                      Exp= 20.00002    Act= 19.99978
mA                                      LC->LC MI 10V Range 20mA
4504.11161                                         -0.000232367577354
mA              -0.0125         0.0125      Delta : LC->LC MI 10V Range
20mA : 20.00
4504.11162                                                    -1.99999
mA              -2.0013         -1.9988     LC->LC FI 10V Range 2mA
4504.11163                                          0.000010620000000
mA              -0.00125        0.00125     Delta : LC->LC FI 10V Range
2mA : -2.00
4504.11164                      Exp= -1.99999    Act= -2.00000
mA                                      LC->LC MI 10V Range 2mA
4504.11165                                        -0.000007045210191
mA              -0.00125        0.00125     Delta : LC->LC MI 10V Range
2mA : -2.00
4504.11166                                                    -0.99999
mA              -1.0008         -0.99925    LC->LC FI 10V Range 2mA
4504.11167                                          0.000011187000000
mA              -0.00075        0.00075     Delta : LC->LC FI 10V Range
2mA : -1.00
4504.11168                      Exp= -0.99999    Act= -0.99997
mA                                      LC->LC MI 10V Range 2mA
4504.11169                                          0.000016412927699
mA              -0.00075        0.00075     Delta : LC->LC MI 10V Range
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2mA : -1.00
4504.11170                                                    0.00001
mA              -0.00025              0.00025       LC->LC FI 10V Range 2mA
4504.11171                                          0.000007873933950
mA              -0.00025              0.00025       Delta : LC->LC FI 10V Range
2mA : 0.00
4504.11172                          Exp= 0.00001     Act= 0.00001
mA                                        LC->LC MI 10V Range 2mA
4504.11173                                          0.000006027187380
mA              -0.00025              0.00025       Delta : LC->LC MI 10V Range
2mA : 0.00
4504.11174                                                    1.00001
mA               0.99925               1.0008       LC->LC FI 10V Range 2mA
4504.11175                                          0.000014830000000
mA              -0.00075              0.00075       Delta : LC->LC FI 10V Range
2mA : 1.00
4504.11176                          Exp= 1.00001     Act= 1.00004
mA                                        LC->LC MI 10V Range 2mA
4504.11177                                          0.000024266572686
mA              -0.00075              0.00075       Delta : LC->LC MI 10V Range
2mA : 1.00
4504.11178                                                    1.99999
mA                1.9988                2.0013       LC->LC FI 10V Range 2mA
4504.11179                                         -0.000008050000000
mA              -0.00125              0.00125       Delta : LC->LC FI 10V Range
2mA : 2.00
4504.11180                          Exp= 1.99999     Act= 2.00000
mA                                        LC->LC MI 10V Range 2mA
4504.11181                                          0.000010341233042
mA              -0.00125              0.00125       Delta : LC->LC MI 10V Range
2mA : 2.00
4504.11182                        Chk RSense100A =   2.00534 mOhms
4504.11183                                                       0
status                                  0
4504.11184                                                -29.99960
mA                -60.15                 0.15       HC->HC FI 10V Range 100A
4504.11185                                          0.000402078272217
mA                -30.15                30.15       Delta : HC->HC FI 10V Range
100A : -30.00
4504.11186                          Exp= -29.99960   Act= -29.99932
```

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mA                                                  HC->HC MI 10V Range 100A
4504.11187                                                 0.000277971839616
mA                -30.15              30.15       Delta : HC->HC MI 10V Range
100A : -30.00
4504.11188                                                        -14.98924
mA               -45.075             15.075       HC->HC FI 10V Range 100A
4504.11189                                                 0.010759588447666
mA               -30.075             30.075       Delta : HC->HC FI 10V Range
100A : -15.00
4504.11190                        Exp= -14.98924    Act= -14.99926
mA                                                  HC->HC MI 10V Range 100A
4504.11191                                               -0.010021640619639
mA               -30.075             30.075       Delta : HC->HC MI 10V Range
100A : -15.00
4504.11192                                                        0.00000
mA                   -30                 30       HC->HC FI 10V Range 100A
4504.11193                                                 0.000000000000000
mA                   -30                 30       Delta : HC->HC FI 10V Range
100A : 0.00
4504.11194                        Exp= 0.00000     Act= 0.00027
mA                                                  HC->HC MI 10V Range 100A
4504.11195                                                 0.000268863541290
mA                   -30                 30       Delta : HC->HC MI 10V Range
100A : 0.00
4504.11196                                                       15.01599
mA               -15.075             45.075       HC->HC FI 10V Range 100A
4504.11197                                                 0.015985298374758
mA               -30.075             30.075       Delta : HC->HC FI 10V Range
100A : 15.00
4504.11198                        Exp= 15.01599     Act= 15.00090
mA                                                  HC->HC MI 10V Range 100A
4504.11199                                               -0.015084915774484
mA               -30.075             30.075       Delta : HC->HC MI 10V Range
100A : 15.00
4504.11200                                                       30.01319
mA                -0.15              60.15       HC->HC FI 10V Range 100A
4504.11201                                                 0.013188670753291
mA                -30.15              30.15       Delta : HC->HC FI 10V Range
100A : 30.00
4504.11202                        Exp= 30.01319     Act= 30.00065
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mA                                                  HC->HC MI 10V Range 100A
4504.11203                                                -0.012541462060852
mA                -30.15              30.15         Delta : HC->HC MI 10V Range
100A : 30.00
4504.11204                                                       -949.90764
mA               -957.75            -942.25         HC->HC FI 75V Range 10A
4504.11205                                                 0.092362999999978
mA                 -7.75               7.75         Delta : HC->HC FI 75V Range
10A : -950.00
4504.11206                                  Exp= -949.90764  Act= -949.93268
mA                                                  HC->HC MI 75V Range 10A
4504.11207                                                -0.025040567241604
mA                 -7.75               7.75         Delta : HC->HC MI 75V Range
10A : -950.00
4504.11208                                                       -475.10039
mA               -480.38            -469.63         HC->HC FI 75V Range 10A
4504.11209                                                -0.100385999999958
mA                -5.375              5.375         Delta : HC->HC FI 75V Range
10A : -475.00
4504.11210                                  Exp= -475.10039  Act= -474.94182
mA                                                  HC->HC MI 75V Range 10A
4504.11211                                                 0.158570021609762
mA                -5.375              5.375         Delta : HC->HC MI 75V Range
10A : -475.00
4504.11212                                                        -0.09994
mA                    -3                  3         HC->HC FI 75V Range 10A
4504.11213                                               -0.099942190000000
mA                    -3                  3         Delta : HC->HC FI 75V Range
10A : 0.00
4504.11214                                  Exp= -0.09994    Act= -0.02084
mA                                                  HC->HC MI 75V Range 10A
4504.11215                                                 0.079104660344090
mA                    -3                  3         Delta : HC->HC MI 75V Range
10A : 0.00
4504.11216                                                        475.19390
mA                469.63              480.38         HC->HC FI 75V Range 10A
4504.11217                                                 0.193899999999985
mA                -5.375              5.375         Delta : HC->HC FI 75V Range
10A : 475.00
4504.11218                                  Exp= 475.19390   Act= 475.02764
```

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mA                                                  HC->HC MI 75V Range 10A
4504.11219                                                -0.166258663617668
mA              -5.375              5.375       Delta : HC->HC MI 75V Range
10A : 475.00
4504.11220                                                      950.00898
mA              942.25              957.75      HC->HC FI 75V Range 10A
4504.11221                                                 0.008975999999961
mA               -7.75               7.75       Delta : HC->HC FI 75V Range
10A : 950.00
4504.11222                          Exp= 950.00898   Act= 949.89649
mA                                                  HC->HC MI 75V Range 10A
4504.11223                                               -0.112486132338063
mA               -7.75               7.75       Delta : HC->HC MI 75V Range
10A : 950.00
4504.11224                                                     -949.90764
mA             -954.62             -945.39      HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11225                                                 0.092362999999978
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11226                          Exp= -949.90764  Act= -949.93268
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11227                                               -0.025040567241604
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11228                                                     -475.10039
mA             -478.81             -471.19      HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11229                                               -0.100385999999958
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11230                          Exp= -475.10039  Act= -474.94182
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11231                                                 0.158570021609762
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11232                                                       -0.09994
mA                  -3                   3       HC->HC V/I Mode Current
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Force/Measure with booster check 75V Range 10A
4504.11233                                                  -0.099942190000000
mA                    -3                     3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11234                                 Exp= -0.09994    Act= -0.02084
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11235                                                   0.079104660344090
mA                    -3                     3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11236                                                          475.19390
mA                471.19                 478.81       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11237                                                   0.193899999999985
mA               -3.8075                 3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11238                                 Exp= 475.19390   Act= 475.02764
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11239                                                  -0.166258663617668
mA               -3.8075                 3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11240                                                          950.00898
mA                945.39                 954.62       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11241                                                   0.008975999999961
mA                -4.615                  4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11242                                 Exp= 950.00898   Act= 949.89649
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11243                                                  -0.112486132338063
mA                -4.615                  4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11244                                                         -949.97315
mA               -953.15                -946.85       HC->HC FI 75V Range 4A
4504.11245                                                   0.026845999999978
mA                 -3.15                   3.15       Delta : HC->HC FI 75V Range
4A : -950.00
4504.11246                                 Exp= -949.97315  Act= -949.97993
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mA                                                  HC->HC MI 75V Range 4A
4504.11247                                                -0.006772033324978
mA                -3.15                3.15         Delta : HC->HC MI 75V Range
4A : -950.00
4504.11248                                                          -475.04190
mA               -477.2               -472.8        HC->HC FI 75V Range 4A
4504.11249                                                -0.041896000000008
mA                -2.2                 2.2         Delta : HC->HC FI 75V Range
4A : -475.00
4504.11250                        Exp= -475.04190  Act= -474.95979
mA                                                  HC->HC MI 75V Range 4A
4504.11251                                                 0.082104314207868
mA                -2.2                 2.2         Delta : HC->HC MI 75V Range
4A : -475.00
4504.11252                                                           -0.00844
mA               -1.25                1.25         HC->HC FI 75V Range 4A
4504.11253                                               -0.008438471740000
mA               -1.25                1.25         Delta : HC->HC FI 75V Range
4A : 0.00
4504.11254                        Exp= -0.00844    Act= 0.01593
mA                                                  HC->HC MI 75V Range 4A
4504.11255                                                 0.024367411146295
mA               -1.25                1.25         Delta : HC->HC MI 75V Range
4A : 0.00
4504.11256                                                           475.09231
mA                472.8               477.2        HC->HC FI 75V Range 4A
4504.11257                                                 0.092309999999998
mA                -2.2                 2.2         Delta : HC->HC FI 75V Range
4A : 475.00
4504.11258                        Exp= 475.09231   Act= 475.02549
mA                                                  HC->HC MI 75V Range 4A
4504.11259                                               -0.066824537462992
mA                -2.2                 2.2         Delta : HC->HC MI 75V Range
4A : 475.00
4504.11260                                                           950.03256
mA               946.85               953.15        HC->HC FI 75V Range 4A
4504.11261                                                 0.032556000000000
mA                -3.15                3.15         Delta : HC->HC FI 75V Range
4A : 950.00
4504.11262                        Exp= 950.03256   Act= 949.98997
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mA                                                  HC->HC MI 75V Range 4A
4504.11263                                                -0.042584744393480
mA                -3.15                3.15         Delta : HC->HC MI 75V Range
4A : 950.00
4504.11264                                                      -949.91427
mA              -957.75             -942.25         HC->HC FI 30V Range 10A
4504.11265                                                 0.085735000000000
mA                -7.75                7.75         Delta : HC->HC FI 30V Range
10A : -950.00
4504.11266                        Exp= -949.91427  Act= -949.91235
mA                                                  HC->HC MI 30V Range 10A
4504.11267                                                 0.001918524115695
mA                -7.75                7.75         Delta : HC->HC MI 30V Range
10A : -950.00
4504.11268                                                      -475.07826
mA              -480.38             -469.63         HC->HC FI 30V Range 10A
4504.11269                                                -0.078260999999998
mA               -5.375               5.375         Delta : HC->HC FI 30V Range
10A : -475.00
4504.11270                        Exp= -475.07826  Act= -474.90577
mA                                                  HC->HC MI 30V Range 10A
4504.11271                                                 0.172491096887200
mA               -5.375               5.375         Delta : HC->HC MI 30V Range
10A : -475.00
4504.11272                                                       -0.06562
mA                  -3                   3         HC->HC FI 30V Range 10A
4504.11273                                               -0.065620624800000
mA                  -3                   3         Delta : HC->HC FI 30V Range
10A : 0.00
4504.11274                        Exp= -0.06562    Act= 0.00397
mA                                                  HC->HC MI 30V Range 10A
4504.11275                                                 0.069592147407753
mA                  -3                   3         Delta : HC->HC MI 30V Range
10A : 0.00
4504.11276                                                       475.21591
mA               469.63              480.38         HC->HC FI 30V Range 10A
4504.11277                                                 0.215912000000003
mA               -5.375               5.375         Delta : HC->HC FI 30V Range
10A : 475.00
4504.11278                        Exp= 475.21591   Act= 475.03508
```

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mA                                                  HC->HC MI 30V Range 10A
4504.11279                                                -0.180832334034449
mA              -5.375              5.375       Delta : HC->HC MI 30V Range
10A : 475.00
4504.11280                                                      950.07905
mA              942.25              957.75      HC->HC FI 30V Range 10A
4504.11281                                                 0.079047999999943
mA               -7.75               7.75       Delta : HC->HC FI 30V Range
10A : 950.00
4504.11282                          Exp= 950.07905   Act= 949.97823
mA                                                  HC->HC MI 30V Range 10A
4504.11283                                               -0.100818782581314
mA               -7.75               7.75       Delta : HC->HC MI 30V Range
10A : 950.00
4504.11284                                                     -949.91427
mA             -954.62             -945.39      HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11285                                                 0.085735000000000
mA               -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11286                          Exp= -949.91427  Act= -949.91235
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11287                                                 0.001918524115695
mA               -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11288                                                     -475.07826
mA             -478.81             -471.19      HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11289                                               -0.078260999999998
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11290                          Exp= -475.07826  Act= -474.90577
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11291                                                 0.172491096887200
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11292                                                      -0.06562
mA                  -3                   3       HC->HC V/I Mode Current
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Force/Measure with booster check 30V Range 10A
4504.11293                                                  -0.065620624800000
mA                    -3                     3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11294                                 Exp= -0.06562    Act= 0.00397
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11295                                                   0.069592147407753
mA                    -3                     3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11296                                                         475.21591
mA                471.19                 478.81       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11297                                                   0.215912000000003
mA               -3.8075                 3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11298                                 Exp= 475.21591   Act= 475.03508
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11299                                                  -0.180832334034449
mA               -3.8075                 3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11300                                                         950.07905
mA                945.39                 954.62       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11301                                                   0.079047999999943
mA                -4.615                  4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11302                                 Exp= 950.07905   Act= 949.97823
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11303                                                  -0.100818782581314
mA                -4.615                  4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11304                                                        -949.94532
mA               -953.15                -946.85       HC->HC FI 30V Range 4A
4504.11305                                                   0.054680999999960
mA                 -3.15                   3.15       Delta : HC->HC FI 30V Range
4A : -950.00
4504.11306                                 Exp= -949.94532  Act= -949.95963
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mA                                                  HC->HC MI 30V Range 4A
4504.11307                                                -0.014306554547488
mA                -3.15                3.15       Delta : HC->HC MI 30V Range
4A : -950.00
4504.11308                                                        -475.02839
mA               -477.2               -472.8      HC->HC FI 30V Range 4A
4504.11309                                              -0.028390000000002
mA                -2.2                 2.2       Delta : HC->HC FI 30V Range
4A : -475.00
4504.11310                      Exp= -475.02839  Act= -474.94293
mA                                                  HC->HC MI 30V Range 4A
4504.11311                                               0.085458190104930
mA                -2.2                 2.2       Delta : HC->HC MI 30V Range
4A : -475.00
4504.11312                                                        -0.03168
mA               -1.25                1.25       HC->HC FI 30V Range 4A
4504.11313                                              -0.031682625600000
mA               -1.25                1.25       Delta : HC->HC FI 30V Range
4A : 0.00
4504.11314                      Exp= -0.03168    Act= -0.00002
mA                                                  HC->HC MI 30V Range 4A
4504.11315                                               0.031663351546371
mA               -1.25                1.25       Delta : HC->HC MI 30V Range
4A : 0.00
4504.11316                                                         475.07789
mA                472.8               477.2       HC->HC FI 30V Range 4A
4504.11317                                               0.077890999999966
mA                -2.2                 2.2       Delta : HC->HC FI 30V Range
4A : 475.00
4504.11318                      Exp= 475.07789   Act= 475.00426
mA                                                  HC->HC MI 30V Range 4A
4504.11319                                              -0.073633847713950
mA                -2.2                 2.2       Delta : HC->HC MI 30V Range
4A : 475.00
4504.11320                                                         950.02708
mA               946.85               953.15       HC->HC FI 30V Range 4A
4504.11321                                               0.027084000000059
mA                -3.15                3.15       Delta : HC->HC FI 30V Range
4A : 950.00
4504.11322                      Exp= 950.02708   Act= 949.99132
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mA                                                  HC->HC MI 30V Range 4A
4504.11323                                                -0.035763846760460
mA                -3.15              3.15           Delta : HC->HC MI 30V Range
4A : 950.00
4504.11324                                                      -950.28818
mA              -957.75            -942.25          HC->HC FI 10V Range 10A
4504.11325                                                -0.288177000000019
mA                -7.75              7.75           Delta : HC->HC FI 10V Range
10A : -950.00
4504.11326                      Exp= -950.28818  Act= -949.89543
mA                                                  HC->HC MI 10V Range 10A
4504.11327                                                 0.392745364719303
mA                -7.75              7.75           Delta : HC->HC MI 10V Range
10A : -950.00
4504.11328                                                      -474.60474
mA              -480.38            -469.63          HC->HC FI 10V Range 10A
4504.11329                                                 0.395255999999961
mA               -5.375              5.375          Delta : HC->HC FI 10V Range
10A : -475.00
4504.11330                      Exp= -474.60474  Act= -474.97634
mA                                                  HC->HC MI 10V Range 10A
4504.11331                                                -0.371594144135599
mA               -5.375              5.375          Delta : HC->HC MI 10V Range
10A : -475.00
4504.11332                                                        -0.04365
mA                  -3                 3           HC->HC FI 10V Range 10A
4504.11333                                                -0.043649912500000
mA                  -3                 3           Delta : HC->HC FI 10V Range
10A : 0.00
4504.11334                      Exp= -0.04365    Act= 0.03725
mA                                                  HC->HC MI 10V Range 10A
4504.11335                                                 0.080904359105948
mA                  -3                 3           Delta : HC->HC MI 10V Range
10A : 0.00
4504.11336                                                       474.70657
mA                469.63             480.38           HC->HC FI 10V Range 10A
4504.11337                                                -0.293433999999991
mA               -5.375              5.375          Delta : HC->HC FI 10V Range
10A : 475.00
4504.11338                      Exp= 474.70657   Act= 475.06439
```

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mA                                                  HC->HC MI 10V Range 10A
4504.11339                                                 0.357826983364816
mA              -5.375              5.375       Delta : HC->HC MI 10V Range
10A : 475.00
4504.11340                                                      950.22315
mA              942.25              957.75      HC->HC FI 10V Range 10A
4504.11341                                                 0.223147999999924
mA               -7.75               7.75       Delta : HC->HC FI 10V Range
10A : 950.00
4504.11342                          Exp= 950.22315   Act= 949.94575
mA                                                  HC->HC MI 10V Range 10A
4504.11343                                               -0.277396660823911
mA               -7.75               7.75       Delta : HC->HC MI 10V Range
10A : 950.00
4504.11344                                                     -950.28818
mA             -954.62             -945.39      HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11345                                               -0.288177000000019
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11346                          Exp= -950.28818  Act= -949.89543
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11347                                                 0.392745364719303
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11348                                                     -474.60474
mA             -478.81             -471.19      HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11349                                                 0.395255999999961
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11350                          Exp= -474.60474  Act= -474.97634
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11351                                               -0.371594144135599
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11352                                                      -0.04365
mA                  -3                   3       HC->HC V/I Mode Current
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Force/Measure with booster check 10V Range 10A
4504.11353                                                  -0.043649912500000
mA                    -3                     3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11354                                 Exp= -0.04365    Act= 0.03725
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11355                                                   0.080904359105948
mA                    -3                     3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11356                                                          474.70657
mA                471.19                 478.81       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11357                                                  -0.293433999999991
mA               -3.8075                 3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11358                                 Exp= 474.70657   Act= 475.06439
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11359                                                   0.357826983364816
mA               -3.8075                 3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11360                                                          950.22315
mA                945.39                 954.62       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11361                                                   0.223147999999924
mA                -4.615                  4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11362                                 Exp= 950.22315   Act= 949.94575
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11363                                                  -0.277396660823911
mA                -4.615                  4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11364                                                         -950.01314
mA               -953.15                -946.85       HC->HC FI 10V Range 4A
4504.11365                                                  -0.013137000000029
mA                 -3.15                   3.15       Delta : HC->HC FI 10V Range
4A : -950.00
4504.11366                                 Exp= -950.01314  Act= -949.97551
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mA                                                  HC->HC MI 10V Range 4A
4504.11367                                                 0.037624728208471
mA                -3.15                3.15        Delta : HC->HC MI 10V Range
4A : -950.00
4504.11368                                                      -475.00666
mA                -477.2               -472.8       HC->HC FI 10V Range 4A
4504.11369                                               -0.006658000000016
mA                 -2.2                 2.2         Delta : HC->HC FI 10V Range
4A : -475.00
4504.11370                          Exp= -475.00666  Act= -474.96611
mA                                                  HC->HC MI 10V Range 4A
4504.11371                                                 0.040552862160212
mA                 -2.2                 2.2         Delta : HC->HC MI 10V Range
4A : -475.00
4504.11372                                                      -0.02278
mA                -1.25                1.25        HC->HC FI 10V Range 4A
4504.11373                                              -0.022783873600000
mA                -1.25                1.25        Delta : HC->HC FI 10V Range
4A : 0.00
4504.11374                          Exp= -0.02278    Act= 0.00702
mA                                                  HC->HC MI 10V Range 4A
4504.11375                                                 0.029804913344723
mA                -1.25                1.25        Delta : HC->HC MI 10V Range
4A : 0.00
4504.11376                                                       475.00167
mA                472.8                477.2        HC->HC FI 10V Range 4A
4504.11377                                                 0.001668999999993
mA                 -2.2                 2.2         Delta : HC->HC FI 10V Range
4A : 475.00
4504.11378                          Exp= 475.00167   Act= 475.00913
mA                                                  HC->HC MI 10V Range 4A
4504.11379                                                 0.007463546600889
mA                 -2.2                 2.2         Delta : HC->HC MI 10V Range
4A : 475.00
4504.11380                                                       950.07681
mA                946.85               953.15       HC->HC FI 10V Range 4A
4504.11381                                                 0.076806999999917
mA                -3.15                3.15        Delta : HC->HC FI 10V Range
4A : 950.00
4504.11382                          Exp= 950.07681   Act= 949.99330
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mA                                                  HC->HC MI 10V Range 4A
4504.11383                                                -0.083506245615808
mA                -3.15                 3.15        Delta : HC->HC MI 10V Range
4A : 950.00
4505.10000                                                HC relays verified
DIB HC Relays Check
4505.10001                                                                    0
status                                          0       DIB HC Relays Check
4505.10002                                Exp= -9.50043    Act= -9.50051
V                                                 LC->LC MV PGA 100V Range 10X
4505.10003                                                -0.000084469991492
V           -0.008375              0.008375       Delta : LC->LC MV PGA 100V
Range 10X : -9.50
4505.10004                                Exp= -0.00004    Act= -0.00001
V                                                 LC->LC MV PGA 100V Range 10X
4505.10005                                                 0.000037994100244
V               -0.006                 0.006      Delta : LC->LC MV PGA 100V
Range 10X : 0.00
4505.10006                                Exp= 9.49974     Act= 9.49967
V                                                 LC->LC MV PGA 100V Range 10X
4505.10007                                                -0.000076721083470
V           -0.008375              0.008375       Delta : LC->LC MV PGA 100V
Range 10X : 9.50
4505.10008                                Exp= -0.95003    Act= -0.95007
V                                                 LC->LC MV PGA 100V Range 100X
4505.10009                                                -0.000039251065835
V          -0.0062375             0.0062375       Delta : LC->LC MV PGA 100V
Range 100X : -0.95
4505.10010                                Exp= 0.00006     Act= -0.00002
V                                                 LC->LC MV PGA 100V Range 100X
4505.10011                                                -0.000079606483090
V               -0.006                 0.006      Delta : LC->LC MV PGA 100V
Range 100X : 0.00
4505.10012                                Exp= 0.94998     Act= 0.94988
V                                                 LC->LC MV PGA 100V Range 100X
4505.10013                                                -0.000104595642943
V          -0.0062375             0.0062375       Delta : LC->LC MV PGA 100V
Range 100X : 0.95
4505.10014                                Exp= -2.84996    Act= -2.84998
V                                                 LC->LC MV PGA 30V Range 10X
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4505.10015                                                    -0.000020624595233
V           -0.0027125            0.0027125       Delta : LC->LC MV PGA 30V Range
10X : -2.85
4505.10016                              Exp= 0.00010      Act= 0.00007
V                                               LC->LC MV PGA 30V Range 10X
4505.10017                                                    -0.000029509094720
V               -0.002                0.002       Delta : LC->LC MV PGA 30V Range
10X : 0.00
4505.10018                              Exp= 2.84994      Act= 2.84991
V                                               LC->LC MV PGA 30V Range 10X
4505.10019                                                    -0.000025441297783
V           -0.0027125            0.0027125       Delta : LC->LC MV PGA 30V Range
10X : 2.85
4505.10020                              Exp= -0.28502     Act= -0.28501
V                                               LC->LC MV PGA 30V Range 100X
4505.10021                                                     0.000014050382840
V           -0.00207125           0.00207125      Delta : LC->LC MV PGA 30V Range
100X : -0.29
4505.10022                              Exp= 0.00007      Act= 0.00009
V                                               LC->LC MV PGA 30V Range 100X
4505.10023                                                     0.000013415518190
V               -0.002                0.002       Delta : LC->LC MV PGA 30V Range
100X : 0.00
4505.10024                              Exp= 0.28490      Act= 0.28491
V                                               LC->LC MV PGA 30V Range 100X
4505.10025                                                     0.000010421619356
V           -0.00207125           0.00207125      Delta : LC->LC MV PGA 30V Range
100X : 0.29
4505.10026                              Exp= -0.95001     Act= -0.95000
V                                               LC->LC MV PGA 10V Range 10X
4505.10027                                                     0.000002491359866
V           -0.0008375            0.0008375       Delta : LC->LC MV PGA 10V Range
10X : -0.95
4505.10028                              Exp= -0.00002     Act= -0.00002
V                                               LC->LC MV PGA 10V Range 10X
4505.10029                                                    -0.000003459915625
V               -0.0006               0.0006      Delta : LC->LC MV PGA 10V Range
10X : 0.00
4505.10030                              Exp= 0.94998      Act= 0.94998
V                                               LC->LC MV PGA 10V Range 10X
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4505.10031                                                    0.000001787043129
V          -0.0008375          0.0008375       Delta : LC->LC MV PGA 10V Range
10X : 0.95
4505.10032                              Exp= -0.09506    Act= -0.09506
V                                               LC->LC MV PGA 10V Range 100X
4505.10033                                                    0.000001823776901
V          -0.00062375         0.00062375       Delta : LC->LC MV PGA 10V Range
100X : -0.10
4505.10034                              Exp= -0.00002    Act= -0.00001
V                                               LC->LC MV PGA 10V Range 100X
4505.10035                                                    0.000004324972670
V              -0.0006              0.0006       Delta : LC->LC MV PGA 10V Range
100X : 0.00
4505.10036                              Exp= 0.09499     Act= 0.09500
V                                               LC->LC MV PGA 10V Range 100X
4505.10037                                                    0.000011008588458
V          -0.00062375         0.00062375       Delta : LC->LC MV PGA 10V Range
100X : 0.10
4505.10038                              Exp= -6.99964    Act= -6.99957
V                                               HC->HC MV PGA 75V Range 10X
4505.10039                                                    0.000075668004864
V             -0.00775             0.00775       Delta : HC->HC MV PGA 75V Range
10X : -7.00
4505.10040                              Exp= -0.00000    Act= 0.00004
V                                               HC->HC MV PGA 75V Range 10X
4505.10041                                                    0.000048004469815
V               -0.006               0.006       Delta : HC->HC MV PGA 75V Range
10X : 0.00
4505.10042                              Exp= 7.00055     Act= 7.00063
V                                               HC->HC MV PGA 75V Range 10X
4505.10043                                                    0.000072320571496
V             -0.00775             0.00775       Delta : HC->HC MV PGA 75V Range
10X : 7.00
4505.10044                              Exp= -0.70020    Act= -0.70010
V                                               HC->HC MV PGA 75V Range 100X
4505.10045                                                    0.000105327236887
V           -0.003175            0.003175       Delta : HC->HC MV PGA 75V Range
100X : -0.70
4505.10046                              Exp= -0.00000    Act= 0.00009
V                                               HC->HC MV PGA 75V Range 100X
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4505.10047                                                    0.000092908873765
V              -0.003              0.003       Delta : HC->HC MV PGA 75V Range
100X : 0.00
4505.10048                          Exp= 0.70004     Act= 0.70011
V                                          HC->HC MV PGA 75V Range 100X
4505.10049                                                    0.000072246201757
V           -0.003175           0.003175       Delta : HC->HC MV PGA 75V Range
100X : 0.70
4505.10050                          Exp= -2.79994    Act= -2.79994
V                                          HC->HC MV PGA 30V Range 10X
4505.10051                                                    0.000002236293038
V             -0.0027             0.0027       Delta : HC->HC MV PGA 30V Range
10X : -2.80
4505.10052                          Exp= 0.00007     Act= 0.00008
V                                          HC->HC MV PGA 30V Range 10X
4505.10053                                                    0.000005958873726
V              -0.002              0.002       Delta : HC->HC MV PGA 30V Range
10X : 0.00
4505.10054                          Exp= 2.80013     Act= 2.80015
V                                          HC->HC MV PGA 30V Range 10X
4505.10055                                                    0.000023176892990
V             -0.0027             0.0027       Delta : HC->HC MV PGA 30V Range
10X : 2.80
4505.10056                          Exp= -0.27996    Act= -0.27995
V                                          HC->HC MV PGA 30V Range 100X
4505.10057                                                    0.000016596757055
V            -0.00107            0.00107       Delta : HC->HC MV PGA 30V Range
100X : -0.28
4505.10058                          Exp= 0.00006     Act= 0.00009
V                                          HC->HC MV PGA 30V Range 100X
4505.10059                                                    0.000028796937721
V              -0.001              0.001       Delta : HC->HC MV PGA 30V Range
100X : 0.00
4505.10060                          Exp= 0.28007     Act= 0.28008
V                                          HC->HC MV PGA 30V Range 100X
4505.10061                                                    0.000012821069989
V            -0.00107            0.00107       Delta : HC->HC MV PGA 30V Range
100X : 0.28
4505.10062                          Exp= -0.84997    Act= -0.84997
V                                          HC->HC MV PGA 10V Range 10X
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4505.10063                                                  -0.000005232155258
V          -0.0008125          0.0008125       Delta : HC->HC MV PGA 10V Range
10X : -0.85
4505.10064                              Exp= 0.00005     Act= 0.00005
V                                               HC->HC MV PGA 10V Range 10X
4505.10065                                          -0.000004248778292
V              -0.0006              0.0006       Delta : HC->HC MV PGA 10V Range
10X : 0.00
4505.10066                              Exp= 0.85001     Act= 0.85001
V                                               HC->HC MV PGA 10V Range 10X
4505.10067                                          -0.000002210305120
V          -0.0008125          0.0008125       Delta : HC->HC MV PGA 10V Range
10X : 0.85
4505.10068                              Exp= -0.08498    Act= -0.08499
V                                               HC->HC MV PGA 10V Range 100X
4505.10069                                          -0.000007703400500
V          -0.00032125         0.00032125       Delta : HC->HC MV PGA 10V Range
100X : -0.09
4505.10070                              Exp= 0.00005     Act= 0.00004
V                                               HC->HC MV PGA 10V Range 100X
4505.10071                                          -0.000007366771247
V              -0.0003              0.0003       Delta : HC->HC MV PGA 10V Range
100X : 0.00
4505.10072                              Exp= 0.08498     Act= 0.08497
V                                               HC->HC MV PGA 10V Range 100X
4505.10073                                          -0.000008799123257
V          -0.00032125         0.00032125       Delta : HC->HC MV PGA 10V Range
100X : 0.09
4506.10000                                          HC relays verified
DIB HC Relays Check
4506.10001                                                              0
status                                      0       DIB HC Relays Check
4506.10002                              Exp= -0.79995    Act= -0.79995
V                                               MV Pedestal LC 0V Pedestal
4506.10003                                          -0.000000862994302
V              -0.00033             0.00033       Delta : MV Pedestal LC 0V
Pedestal : -0.80
4506.10004                              Exp= -0.39993    Act= -0.39991
V                                               MV Pedestal LC 0V Pedestal
4506.10005                                           0.000015899077021
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V              -0.00029              0.00029       Delta : MV Pedestal LC 0V
Pedestal : -0.40
4506.10006                                 Exp= 0.00019     Act= 0.00019
V                                                 MV Pedestal LC 0V Pedestal
4506.10007                                                -0.000002019706121
V              -0.00025              0.00025       Delta : MV Pedestal LC 0V
Pedestal : 0.00
4506.10008                                 Exp= 0.40023     Act= 0.40024
V                                                 MV Pedestal LC 0V Pedestal
4506.10009                                                 0.000010423879362
V              -0.00029              0.00029       Delta : MV Pedestal LC 0V
Pedestal : 0.40
4506.10010                                 Exp= 0.80025     Act= 0.80026
V                                                 MV Pedestal LC 0V Pedestal
4506.10011                                                 0.000006701427478
V              -0.00033              0.00033       Delta : MV Pedestal LC 0V
Pedestal : 0.80
4506.10012                                 Exp= 0.30019     Act= 0.30019
V                                                 MV Pedestal LC 1V Pedestal
4506.10013                                                -0.000004131811144
V              -0.00028              0.00028       Delta : MV Pedestal LC 1V
Pedestal : 0.30
4506.10014                                 Exp= 0.60021     Act= 0.60020
V                                                 MV Pedestal LC 1V Pedestal
4506.10015                                                -0.000011802100919
V              -0.00031              0.00031       Delta : MV Pedestal LC 1V
Pedestal : 0.60
4506.10016                                 Exp= 1.00023     Act= 1.00022
V                                                 MV Pedestal LC 1V Pedestal
4506.10017                                                -0.000007857967968
V              -0.00035              0.00035       Delta : MV Pedestal LC 1V
Pedestal : 1.00
4506.10018                                 Exp= 1.30031     Act= 1.30030
V                                                 MV Pedestal LC 1V Pedestal
4506.10019                                                -0.000010786603106
V              -0.00038              0.00038       Delta : MV Pedestal LC 1V
Pedestal : 1.30
4506.10020                                 Exp= 1.70037     Act= 1.70036
V                                                 MV Pedestal LC 1V Pedestal
4506.10021                                                -0.000012291216890
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V              -0.00042              0.00042       Delta : MV Pedestal LC 1V
Pedestal : 1.70
4506.10022                                 Exp= 2.40037     Act= 2.40036
V                                                 MV Pedestal LC 3V Pedestal
4506.10023                                               -0.000012545296229
V              -0.00049              0.00049       Delta : MV Pedestal LC 3V
Pedestal : 2.40
4506.10024                                 Exp= 2.70040     Act= 2.70039
V                                                 MV Pedestal LC 3V Pedestal
4506.10025                                               -0.000010987725323
V              -0.00052              0.00052       Delta : MV Pedestal LC 3V
Pedestal : 2.70
4506.10026                                 Exp= 3.00042     Act= 3.00040
V                                                 MV Pedestal LC 3V Pedestal
4506.10027                                               -0.000020588571866
V              -0.00055              0.00055       Delta : MV Pedestal LC 3V
Pedestal : 3.00
4506.10028                                 Exp= 3.30040     Act= 3.30038
V                                                 MV Pedestal LC 3V Pedestal
4506.10029                                               -0.000014766428216
V              -0.00058              0.00058       Delta : MV Pedestal LC 3V
Pedestal : 3.30
4506.10030                                 Exp= 3.60038     Act= 3.60036
V                                                 MV Pedestal LC 3V Pedestal
4506.10031                                               -0.000022546732955
V              -0.00061              0.00061       Delta : MV Pedestal LC 3V
Pedestal : 3.60
4506.10032                                 Exp= 4.30040     Act= 4.30038
V                                                 MV Pedestal LC 5V Pedestal
4506.10033                                               -0.000021042554153
V              -0.00068              0.00068       Delta : MV Pedestal LC 5V
Pedestal : 4.30
4506.10034                                 Exp= 4.60043     Act= 4.60044
V                                                 MV Pedestal LC 5V Pedestal
4506.10035                                                0.000001255627484
V              -0.00071              0.00071       Delta : MV Pedestal LC 5V
Pedestal : 4.60
4506.10036                                 Exp= 5.00046     Act= 5.00046
V                                                 MV Pedestal LC 5V Pedestal
4506.10037                                                0.000006143366324
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V             -0.00075              0.00075       Delta : MV Pedestal LC 5V
Pedestal : 5.00
4506.10038                                Exp= 5.30044     Act= 5.30044
V                                                 MV Pedestal LC 5V Pedestal
4506.10039                                                 0.000002856129446
V             -0.00078              0.00078       Delta : MV Pedestal LC 5V
Pedestal : 5.30
4506.10040                                Exp= 5.70050     Act= 5.70046
V                                                 MV Pedestal LC 5V Pedestal
4506.10041                                                -0.000037425826065
V             -0.00082              0.00082       Delta : MV Pedestal LC 5V
Pedestal : 5.70
4507.11000                                                HC relays verified
DIB HC Relays Check
4507.11001                                                                  0
status                                              0       DIB HC Relays Check
4507.11002                                Exp= -47.49734   Act= -47.49785
mA                                                LC->LC MI PGA 100V Range 500mA
10X
4507.11003                                                -0.000517234770086
mA             -0.08375              0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : -47.50
4507.11004                                Exp= 0.00552     Act= 0.00510
mA                                                LC->LC MI PGA 100V Range 500mA
10X
4507.11005                                                -0.000417086882909
mA                -0.06                 0.06       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 0.00
4507.11006                                Exp= 47.50420    Act= 47.50276
mA                                                LC->LC MI PGA 100V Range 500mA
10X
4507.11007                                                -0.001438610014581
mA             -0.08375              0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 47.50
4507.11008                                Exp= -4.74356    Act= -4.74479
mA                                                LC->LC MI PGA 100V Range 500mA
100X
4507.11009                                                -0.001236237355388
mA            -0.062375             0.062375       Delta : LC->LC MI PGA 100V
Range 500mA 100X : -4.75
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4507.11010 Exp= 0.00894 Act= 0.00787
mA LC->LC MI PGA 100V Range 500mA
100X
4507.11011 -0.001067715111160
mA -0.06 0.06 Delta : LC->LC MI PGA 100V
Range 500mA 100X : 0.00
4507.11012 Exp= 4.75967 Act= 4.75891
mA LC->LC MI PGA 100V Range 500mA
100X
4507.11013 -0.000757405952483
mA -0.062375 0.062375 Delta : LC->LC MI PGA 100V
Range 500mA 100X : 4.75
4507.11014 Exp= -94.99586 Act= -94.99636
mA LC->LC MI PGA 30V Range 1A 10X
4507.11015 -0.000503057468052
mA -0.1075 0.1075 Delta : LC->LC MI PGA 30V
Range 1A 10X : -95.00
4507.11016 Exp= 0.00516 Act= 0.00536
mA LC->LC MI PGA 30V Range 1A 10X
4507.11017 0.000203465521089
mA -0.06 0.06 Delta : LC->LC MI PGA 30V
Range 1A 10X : 0.00
4507.11018 Exp= 94.99851 Act= 94.99801
mA LC->LC MI PGA 30V Range 1A 10X
4507.11019 -0.000499026269651
mA -0.1075 0.1075 Delta : LC->LC MI PGA 30V
Range 1A 10X : 95.00
4507.11020 Exp= -9.49632 Act= -9.49600
mA LC->LC MI PGA 30V Range 1A
100X
4507.11021 0.000316404367663
mA -0.06475 0.06475 Delta : LC->LC MI PGA 30V
Range 1A 100X : -9.50
4507.11022 Exp= 0.00656 Act= 0.00659
mA LC->LC MI PGA 30V Range 1A
100X
4507.11023 0.000027197121245
mA -0.06 0.06 Delta : LC->LC MI PGA 30V
Range 1A 100X : 0.00
4507.11024 Exp= 9.50553 Act= 9.50554

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mA                                                  LC->LC MI PGA 30V Range 1A
100X
4507.11025                                                  0.000004988370286
mA              -0.06475            0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : 9.50
4507.11026                              Exp= -9.49978     Act= -9.49985
mA                                                  LC->LC MI PGA 30V Range 100mA
10X
4507.11027                                                 -0.000068907809025
mA              -0.01075            0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : -9.50
4507.11028                              Exp= -0.00011     Act= -0.00029
mA                                                  LC->LC MI PGA 30V Range 100mA
10X
4507.11029                                                 -0.000184454842872
mA                -0.006              0.006       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 0.00
4507.11030                              Exp= 9.50042      Act= 9.50017
mA                                                  LC->LC MI PGA 30V Range 100mA
10X
4507.11031                                                 -0.000247884968157
mA              -0.01075            0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 9.50
4507.11032                              Exp= -950.33782   Act= -950.51299
uA                                                  LC->LC MI PGA 30V Range 100mA
100X
4507.11033                                                 -0.175170357681282
uA                -6.475              6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : -950.00
4507.11034                              Exp= 0.00486      Act= -0.14428
uA                                                  LC->LC MI PGA 30V Range 100mA
100X
4507.11035                                                 -0.149138483559263
uA                    -6                 6        Delta : LC->LC MI PGA 30V
Range 100mA 100X : 0.00
4507.11036                              Exp= 950.05071    Act= 949.87027
uA                                                  LC->LC MI PGA 30V Range 100mA
100X
4507.11037                                                 -0.180449792140394
uA                -6.475              6.475       Delta : LC->LC MI PGA 30V
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Range 100mA 100X : 950.00
4507.11038                          Exp= -949.94518  Act= -949.96446
uA                                          LC->LC MI PGA 30V Range 10mA
10X
4507.11039                                        -0.019278948998704
uA              -1.075              1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : -950.00
4507.11040                          Exp= 0.02870     Act= 0.01432
uA                                          LC->LC MI PGA 30V Range 10mA
10X
4507.11041                                        -0.014381189617962
uA                -0.6                0.6       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 0.00
4507.11042                          Exp= 950.00898   Act= 949.99884
uA                                          LC->LC MI PGA 30V Range 10mA
10X
4507.11043                                        -0.010137663496380
uA              -1.075              1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 950.00
4507.11044                          Exp= -189.98928  Act= -189.99533
mA                                          LC->LC MI PGA 10V Range 2A 10X
4507.11045                                        -0.006053749964963
mA               -0.22               0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : -190.00
4507.11046                          Exp= 0.00096     Act= -0.00044
mA                                          LC->LC MI PGA 10V Range 2A 10X
4507.11047                                        -0.001399595313313
mA              -0.125              0.125       Delta : LC->LC MI PGA 10V
Range 2A 10X : 0.00
4507.11048                          Exp= 189.99971   Act= 189.99683
mA                                          LC->LC MI PGA 10V Range 2A 10X
4507.11049                                        -0.002879072725051
mA               -0.22               0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : 190.00
4507.11050                          Exp= -18.99469   Act= -18.99735
mA                                          LC->LC MI PGA 10V Range 2A
100X
4507.11051                                        -0.002658653070640
mA             -0.1345             0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : -19.00
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4507.11052                                  Exp= 0.01081      Act= 0.00905
mA                                                  LC->LC MI PGA 10V Range 2A
100X
4507.11053                                                  -0.001756191710107
mA                -0.125                0.125       Delta : LC->LC MI PGA 10V
Range 2A 100X : 0.00
4507.11054                                  Exp= 19.01437     Act= 19.01259
mA                                                  LC->LC MI PGA 10V Range 2A
100X
4507.11055                                                  -0.001779688209052
mA               -0.1345                0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : 19.00
4507.11056                                  Exp= -18.99302    Act= -18.99310
mA                                                  LC->LC MI PGA 10V Range 200mA
10X
4507.11057                                                  -0.000079777474511
mA               -0.0215                0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : -19.00
4507.11058                                  Exp= 0.00700      Act= 0.00657
mA                                                  LC->LC MI PGA 10V Range 200mA
10X
4507.11059                                                  -0.000423939294103
mA                -0.012                0.012       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 0.00
4507.11060                                  Exp= 19.00548     Act= 19.00530
mA                                                  LC->LC MI PGA 10V Range 200mA
10X
4507.11061                                                  -0.000182269088061
mA               -0.0215                0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 19.00
4507.11062                                  Exp= -1.89358     Act= -1.89358
mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11063                                                  -0.000004298111905
mA              -0.01295              0.01295       Delta : LC->LC MI PGA 10V
Range 200mA 100X : -1.90
4507.11064                                  Exp= 0.00732      Act= 0.00723
mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11065                                                  -0.000096713475124
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mA                -0.012              0.012       Delta : LC->LC MI PGA 10V
Range 200mA 100X : 0.00
4507.11066                              Exp= 1.90756     Act= 1.90742
mA                                              LC->LC MI PGA 10V Range 200mA
100X
4507.11067                                              -0.000147089798364
mA             -0.01295             0.01295       Delta : LC->LC MI PGA 10V
Range 200mA 100X : 1.90
4507.11068                              Exp= -1.89934    Act= -1.89936
mA                                              LC->LC MI PGA 10V Range 20mA
10X
4507.11069                                              -0.000019456189716
mA             -0.00215             0.00215       Delta : LC->LC MI PGA 10V
Range 20mA 10X : -1.90
4507.11070                              Exp= 0.00054     Act= 0.00053
mA                                              LC->LC MI PGA 10V Range 20mA
10X
4507.11071                                              -0.000008822066033
mA              -0.0012              0.0012       Delta : LC->LC MI PGA 10V
Range 20mA 10X : 0.00
4507.11072                              Exp= 1.90061     Act= 1.90059
mA                                              LC->LC MI PGA 10V Range 20mA
10X
4507.11073                                              -0.000020808447771
mA             -0.00215             0.00215       Delta : LC->LC MI PGA 10V
Range 20mA 10X : 1.90
4507.11074                              Exp= -670.29339  Act= -670.48706
mA                                              HC->HC MI PGA 75V Range 100A
10X
4507.11075                                              -0.193670396028097
mA              -18.325              18.325       Delta : HC->HC MI PGA 75V
Range 100A 10X : -665.00
4507.11076                              Exp= -5.91775    Act= -6.03406
mA                                              HC->HC MI PGA 75V Range 100A
10X
4507.11077                                              -0.116313471251003
mA                 -15                  15       Delta : HC->HC MI PGA 75V
Range 100A 10X : 0.00
4507.11078                              Exp= 659.29079   Act= 659.16949
mA                                              HC->HC MI PGA 75V Range 100A
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10X
4507.11079                                                    -0.121296844452218
mA              -18.325              18.325       Delta : HC->HC MI PGA 75V
Range 100A 10X : 665.00
4507.11080                          Exp= -670.30668  Act= -670.47499
mA                                          HC->HC MI PGA 75V Range 100A
100X
4507.11081                                                    -0.168302239315040
mA              -10.825              10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : -665.00
4507.11082                          Exp= -5.87107    Act= -6.02098
mA                                          HC->HC MI PGA 75V Range 100A
100X
4507.11083                                                    -0.149917330390141
mA                -7.5                 7.5       Delta : HC->HC MI PGA 75V
Range 100A 100X : 0.00
4507.11084                          Exp= 659.24427   Act= 659.05160
mA                                          HC->HC MI PGA 75V Range 100A
100X
4507.11085                                                    -0.192668748769506
mA              -10.825              10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : 665.00
4507.11086                          Exp= -665.30999  Act= -665.35843
mA                                          HC->HC MI PGA 75V Range 10A
10X
4507.11087                                                    -0.048437046007621
mA               -4.825               4.825       Delta : HC->HC MI PGA 75V
Range 10A 10X : -665.00
4507.11088                          Exp= -0.11169    Act= -0.07480
mA                                          HC->HC MI PGA 75V Range 10A
10X
4507.11089                                                     0.036896716647090
mA               -1.5                 1.5         Delta : HC->HC MI PGA 75V
Range 10A 10X : 0.00
4507.11090                          Exp= 665.35917   Act= 665.29365
mA                                          HC->HC MI PGA 75V Range 10A
10X
4507.11091                                                    -0.065514120450075
mA               -4.825               4.825       Delta : HC->HC MI PGA 75V
Range 10A 10X : 665.00
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4507.11092 Exp= -665.30999 Act= -665.35843
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11093 -0.048437046007621
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : -665.00
4507.11094 Exp= -0.11169 Act= -0.07480
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11095 0.036896716647090
mA -1.5 1.5 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 0.00
4507.11096 Exp= 665.35917 Act= 665.29365
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11097 -0.065514120450075
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 665.00
4507.11098 Exp= -66.48132 Act= -66.47332
mA HC->HC MI PGA 75V Range 10A
100X
4507.11099 0.008002107900623
mA -1.0825 1.0825 Delta : HC->HC MI PGA 75V
Range 10A 100X : -66.50
4507.11100 Exp= -0.12910 Act= -0.12656
mA HC->HC MI PGA 75V Range 10A
100X
4507.11101 0.002541313035839
mA -0.75 0.75 Delta : HC->HC MI PGA 75V
Range 10A 100X : 0.00
4507.11102 Exp= 66.26283 Act= 66.26406
mA HC->HC MI PGA 75V Range 10A
100X
4507.11103 0.001228577641697
mA -1.0825 1.0825 Delta : HC->HC MI PGA 75V
Range 10A 100X : 66.50
4507.11104 Exp= -66.48132 Act= -66.47332
mA HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11105 0.008002107900623

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mA              -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : -66.50
4507.11106                                  Exp= -0.12910    Act= -0.12656
mA                                                HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11107                                                  0.002541313035839
mA                -0.75                 0.75       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 0.00
4507.11108                                  Exp= 66.26283    Act= 66.26406
mA                                                HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11109                                                  0.001228577641697
mA              -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 66.50
4507.11110                                  Exp= -266.06152  Act= -266.06282
mA                                                HC->HC MI PGA 75V Range 4A 10X
4507.11111                                                 -0.001305629807177
mA               -1.157                1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : -266.00
4507.11112                                  Exp= -0.02804    Act= -0.02567
mA                                                HC->HC MI PGA 75V Range 4A 10X
4507.11113                                                  0.002364593542772
mA               -0.625                0.625       Delta : HC->HC MI PGA 75V
Range 4A 10X : 0.00
4507.11114                                  Exp= 266.03556   Act= 266.00659
mA                                                HC->HC MI PGA 75V Range 4A 10X
4507.11115                                                 -0.028969042640597
mA               -1.157                1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : 266.00
4507.11116                                  Exp= -26.62253   Act= -26.62373
mA                                                HC->HC MI PGA 75V Range 4A
100X
4507.11117                                                 -0.001196749446631
mA              -0.3652               0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : -26.60
4507.11118                                  Exp= -0.02146    Act= -0.02695
mA                                                HC->HC MI PGA 75V Range 4A
100X
4507.11119                                                 -0.005485944395138
mA               -0.312                0.312       Delta : HC->HC MI PGA 75V
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Range 4A 100X : 0.00
4507.11120                          Exp= 26.53103    Act= 26.52737
mA                                          HC->HC MI PGA 75V Range 4A
100X
4507.11121                                        -0.003655899628157
mA              -0.3652          0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : 26.60
4507.11122                          Exp= -670.55792  Act= -670.61586
mA                                          HC->HC MI PGA 30V Range 100A
10X
4507.11123                                        -0.057948765760557
mA              -18.325          18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : -665.00
4507.11124                          Exp= -5.99879    Act= -6.15009
mA                                          HC->HC MI PGA 30V Range 100A
10X
4507.11125                                        -0.151298709616889
mA                 -15               15       Delta : HC->HC MI PGA 30V
Range 100A 10X : 0.00
4507.11126                          Exp= 659.08203   Act= 659.02577
mA                                          HC->HC MI PGA 30V Range 100A
10X
4507.11127                                        -0.056252354576714
mA              -18.325          18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : 665.00
4507.11128                          Exp= -670.39067  Act= -670.34179
mA                                          HC->HC MI PGA 30V Range 100A
100X
4507.11129                                         0.048874450439485
mA              -10.825          10.825       Delta : HC->HC MI PGA 30V
Range 100A 100X : -665.00
4507.11130                          Exp= -5.97072    Act= -5.88716
mA                                          HC->HC MI PGA 30V Range 100A
100X
4507.11131                                         0.083553112204793
mA                -7.5             7.5       Delta : HC->HC MI PGA 30V
Range 100A 100X : 0.00
4507.11132                          Exp= 659.22031   Act= 659.22949
mA                                          HC->HC MI PGA 30V Range 100A
100X
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4507.11133                                                    0.009185748552113
mA              -10.825              10.825       Delta : HC->HC MI PGA 30V
Range 100A 100X : 665.00
4507.11134                                Exp= -665.33315  Act= -665.32977
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11135                                                    0.003379460268320
mA               -4.825               4.825       Delta : HC->HC MI PGA 30V
Range 10A 10X : -665.00
4507.11136                                Exp= -0.08496    Act= -0.02630
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11137                                                    0.058660369922411
mA                 -1.5                 1.5       Delta : HC->HC MI PGA 30V
Range 10A 10X : 0.00
4507.11138                                Exp= 665.39756   Act= 665.35874
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11139                                                   -0.038816924884486
mA               -4.825               4.825       Delta : HC->HC MI PGA 30V
Range 10A 10X : 665.00
4507.11140                                Exp= -665.33315  Act= -665.32977
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11141                                                    0.003379460268320
mA              -2.6305              2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : -665.00
4507.11142                                Exp= -0.08496    Act= -0.02630
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11143                                                    0.058660369922411
mA                 -1.5                 1.5       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 0.00
4507.11144                                Exp= 665.39756   Act= 665.35874
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11145                                                   -0.038816924884486
mA              -2.6305              2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 665.00
4507.11146                                Exp= -66.53617   Act= -66.52238
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mA                                                    HC->HC MI PGA 30V Range 10A
100X
4507.11147                                                    0.013792838956704
mA              -1.0825              1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : -66.50
4507.11148                              Exp= -0.09828    Act= -0.09381
mA                                                    HC->HC MI PGA 30V Range 10A
100X
4507.11149                                                    0.004470409471162
mA                -0.75                0.75       Delta : HC->HC MI PGA 30V
Range 10A 100X : 0.00
4507.11150                              Exp= 66.29458    Act= 66.29989
mA                                                    HC->HC MI PGA 30V Range 10A
100X
4507.11151                                                    0.005307327918416
mA              -1.0825              1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : 66.50
4507.11152                              Exp= -66.53617   Act= -66.52238
mA                                                    HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11153                                                    0.013792838956704
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : -66.50
4507.11154                              Exp= -0.09828    Act= -0.09381
mA                                                    HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11155                                                    0.004470409471162
mA                -0.75                0.75       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 0.00
4507.11156                              Exp= 66.29458    Act= 66.29989
mA                                                    HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11157                                                    0.005307327918416
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 66.50
4507.11158                              Exp= -266.06896  Act= -266.06630
mA                                                    HC->HC MI PGA 30V Range 4A 10X
4507.11159                                                    0.002660645494757
mA               -1.157               1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : -266.00
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4507.11160                                  Exp= -0.04162    Act= -0.02984
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11161                                                 0.011779402254049
mA                -0.625                0.625       Delta : HC->HC MI PGA 30V
Range 4A 10X : 0.00
4507.11162                                  Exp= 266.04883   Act= 266.03337
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11163                                               -0.015462349143775
mA                -1.157                1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : 266.00
4507.11164                                  Exp= -26.60415   Act= -26.61121
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11165                                               -0.007063143171493
mA               -0.3652                0.3652      Delta : HC->HC MI PGA 30V
Range 4A 100X : -26.60
4507.11166                                  Exp= -0.03382    Act= -0.04253
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11167                                               -0.008714542319467
mA                -0.312                0.312       Delta : HC->HC MI PGA 30V
Range 4A 100X : 0.00
4507.11168                                  Exp= 26.54810    Act= 26.54241
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11169                                               -0.005689328693688
mA               -0.3652                0.3652      Delta : HC->HC MI PGA 30V
Range 4A 100X : 26.60
4507.11170                                  Exp= -670.05324  Act= -670.27664
mA                                                HC->HC MI PGA 10V Range 100A
10X
4507.11171                                               -0.223398349218542
mA               -18.325                18.325      Delta : HC->HC MI PGA 10V
Range 100A 10X : -665.00
4507.11172                                  Exp= -5.65025    Act= -5.80341
mA                                                HC->HC MI PGA 10V Range 100A
10X
4507.11173                                               -0.153167631825362
mA                  -15                    15       Delta : HC->HC MI PGA 10V
Range 100A 10X : 0.00
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4507.11174 Exp= 659.41677 Act= 659.33161
mA HC->HC MI PGA 10V Range 100A
10X
4507.11175 -0.085153123491295
mA -18.325 18.325 Delta : HC->HC MI PGA 10V
Range 100A 10X : 665.00
4507.11176 Exp= -670.10957 Act= -670.24673
mA HC->HC MI PGA 10V Range 100A
100X
4507.11177 -0.137159293312720
mA -10.825 10.825 Delta : HC->HC MI PGA 10V
Range 100A 100X : -665.00
4507.11178 Exp= -5.55888 Act= -5.74908
mA HC->HC MI PGA 10V Range 100A
100X
4507.11179 -0.190203407674604
mA -7.5 7.5 Delta : HC->HC MI PGA 10V
Range 100A 100X : 0.00
4507.11180 Exp= 659.46859 Act= 659.36445
mA HC->HC MI PGA 10V Range 100A
100X
4507.11181 -0.104136311436491
mA -10.825 10.825 Delta : HC->HC MI PGA 10V
Range 100A 100X : 665.00
4507.11182 Exp= -664.64528 Act= -664.65850
mA HC->HC MI PGA 10V Range 10A
10X
4507.11183 -0.013218034930333
mA -4.825 4.825 Delta : HC->HC MI PGA 10V
Range 10A 10X : -665.00
4507.11184 Exp= -0.03299 Act= 0.05948
mA HC->HC MI PGA 10V Range 10A
10X
4507.11185 0.092464528011434
mA -1.5 1.5 Delta : HC->HC MI PGA 10V
Range 10A 10X : 0.00
4507.11186 Exp= 664.95952 Act= 664.86308
mA HC->HC MI PGA 10V Range 10A
10X
4507.11187 -0.096443876387298

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mA                -4.825                4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : 665.00
4507.11188                                  Exp= -664.64528  Act= -664.65850
mA                                                HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11189                                                -0.013218034930333
mA              -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : -665.00
4507.11190                                  Exp= -0.03299    Act= 0.05948
mA                                                HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11191                                                0.092464528011434
mA                  -1.5                  1.5       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 0.00
4507.11192                                  Exp= 664.95952   Act= 664.86308
mA                                                HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11193                                                -0.096443876387298
mA              -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 665.00
4507.11194                                  Exp= -66.43642   Act= -66.44770
mA                                                HC->HC MI PGA 10V Range 10A
100X
4507.11195                                                -0.011276337475806
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 10V
Range 10A 100X : -66.50
4507.11196                                  Exp= -0.03111    Act= -0.02587
mA                                                HC->HC MI PGA 10V Range 10A
100X
4507.11197                                                0.005245419103708
mA                -0.75                 0.75       Delta : HC->HC MI PGA 10V
Range 10A 100X : 0.00
4507.11198                                  Exp= 66.43324    Act= 66.43833
mA                                                HC->HC MI PGA 10V Range 10A
100X
4507.11199                                                0.005092812904422
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 10V
Range 10A 100X : 66.50
4507.11200                                  Exp= -66.43642   Act= -66.44770
mA                                                HC->HC MI With booster
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improved cal check 10V Range 10A 100X
4507.11201                                                  -0.011276337475806
mA            -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : -66.50
4507.11202                                  Exp= -0.03111    Act= -0.02587
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11203                                                   0.005245419103708
mA               -0.75                 0.75       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 0.00
4507.11204                                  Exp= 66.43324    Act= 66.43833
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11205                                                   0.005092812904422
mA            -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 66.50
4507.11206                                  Exp= -266.00464  Act= -266.01463
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11207                                                  -0.009995150437931
mA              -1.157                1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : -266.00
4507.11208                                  Exp= -0.01438    Act= -0.01570
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11209                                                  -0.001319372304645
mA              -0.625                0.625       Delta : HC->HC MI PGA 10V
Range 4A 10X : 0.00
4507.11210                                  Exp= 265.99367   Act= 265.97790
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11211                                                  -0.015773130273146
mA              -1.157                1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : 266.00
4507.11212                                  Exp= -26.58741   Act= -26.59297
mA                                                  HC->HC MI PGA 10V Range 4A
100X
4507.11213                                                  -0.005553742777099
mA             -0.3652               0.3652       Delta : HC->HC MI PGA 10V
Range 4A 100X : -26.60
4507.11214                                  Exp= -0.00929    Act= -0.01331
mA                                                  HC->HC MI PGA 10V Range 4A
100X
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4507.11215 -0.004020062046436
mA -0.312 0.312 Delta : HC->HC MI PGA 10V
Range 4A 100X : 0.00
4507.11216 Exp= 26.55342 Act= 26.55199
mA HC->HC MI PGA 10V Range 4A
100X
4507.11217 -0.001429887555730
mA -0.3652 0.3652 Delta : HC->HC MI PGA 10V
Range 4A 100X : 26.60
4508.10000 HC relays verified
DIB HC Relays Check
4508.10001 0
status 0 DIB HC Relays Check
4508.10002 Measure the HV 20V divider
External HV Source Calibration Factors
4508.10003 0
status 0 External HV Source
Calibration Factors
4508.10004 Measure the HV 200V divider
External HV Source Calibration Factors
4508.10005 0
status 0 External HV Source
Calibration Factors
4508.10006 Measure 2000V path
External HV Source Calibration Factors
4508.10007 0
status 0 External HV Source
Calibration Factors
4508.10008 Measure ATTEN_2
External HV Source Calibration Factors
4508.10009 0
status 0 External HV Source
Calibration Factors
4508.10010 HV cal factors to/from file
External HV Source Calibration Factors
4508.10011 0
status 0 External HV Source
Calibration Factors
4508.10012 External HV Source Cal Data
External HV Source Calibration Factors

```
4508.10013                                                              0
status                                  0       External HV Source
Calibration Factors
4508.10014                                                          -0.00130
-0.0016294          -0.00097761       External HV Source 20V Range slope
4508.10015                                                          -0.00125
-0.05                 0.05        External HV Source 20V Range offset
4508.10016                                                          -0.01406
-0.017924           -0.010754       External HV Source 200V Range slope
4508.10017                                                          -0.01349
-0.5                  0.5         External HV Source 200V Range offset
4508.10018                                                          -0.12212
-0.15259            -0.091554       External HV Source 2000V Range slope
4508.10019                                                          -0.11667
-5                    5         External HV Source 2000V Range offset
4508.10020                                                           0.48950
Atten_2 value
4508.10021                              Exp= -9.49898    Act= -9.49901
V                                           Volt Meter 10V Range 1X
4508.10022                                          -0.000034963371204
V             -0.00595              0.00595       Delta : Volt Meter 10V Range
1X : -9.50
4508.10023                              Exp= 0.00103     Act= 0.00103
V                                           Volt Meter 10V Range 1X
4508.10024                                           0.000007241600883
V              -0.0012               0.0012       Delta : Volt Meter 10V Range
1X : 0.00
4508.10025                              Exp= 9.50104     Act= 9.50107
V                                           Volt Meter 10V Range 1X
4508.10026                                           0.000031840492383
V             -0.00595              0.00595       Delta : Volt Meter 10V Range
1X : 9.50
4508.10027                              Exp= -28.49911   Act= -28.49933
V                                           Volt Meter 30V Range 1X
4508.10028                                          -0.000216630271773
V             -0.01825              0.01825       Delta : Volt Meter 30V Range
1X : -28.50
4508.10029                              Exp= 0.00111     Act= 0.00115
V                                           Volt Meter 30V Range 1X
4508.10030                                           0.000035894183783
```

```
V                -0.004                  0.004       Delta : Volt Meter 30V Range
1X : 0.00
4508.10031                                   Exp= 28.50098    Act= 28.50102
V                                                Volt Meter 30V Range 1X
4508.10032                                                    0.000034710398541
V              -0.01825                0.01825       Delta : Volt Meter 30V Range
1X : 28.50
4508.10033                                   Exp= -94.99878   Act= -94.99910
V                                                Volt Meter 100V Range 1X
4508.10034                                                   -0.000326244632902
V                -0.06                   0.06       Delta : Volt Meter 100V Range
1X : -95.00
4508.10035                                   Exp= 0.00102     Act= 0.00112
V                                                Volt Meter 100V Range 1X
4508.10036                                                    0.000099330779814
V               -0.0125                 0.0125       Delta : Volt Meter 100V Range
1X : 0.00
4508.10037                                   Exp= 95.00084    Act= 95.00111
V                                                Volt Meter 100V Range 1X
4508.10038                                                    0.000270253165908
V                -0.06                   0.06       Delta : Volt Meter 100V Range
1X : 95.00
4508.10039                                   Exp= -0.94896    Act= -0.94896
V                                                Volt Meter 10V Range 10X
4508.10040                                                   -0.000000818568937
V             -0.001075               0.001075       Delta : Volt Meter 10V Range
10X : -0.95
4508.10041                                   Exp= 0.00103     Act= 0.00102
V                                                Volt Meter 10V Range 10X
4508.10042                                                   -0.000004658810780
V              -0.0006                 0.0006       Delta : Volt Meter 10V Range
10X : 0.00
4508.10043                                   Exp= 0.95102     Act= 0.95103
V                                                Volt Meter 10V Range 10X
4508.10044                                                    0.000006737664138
V             -0.001075               0.001075       Delta : Volt Meter 10V Range
10X : 0.95
4508.10045                                   Exp= -0.09402    Act= -0.09401
V                                                Volt Meter 10V Range 100X
4508.10046                                                    0.000011859229165
```

```
V            -0.0003475            0.0003475       Delta : Volt Meter 10V Range
100X : -0.10
4508.10047                                  Exp= 0.00103     Act= 0.00103
V                                                Volt Meter 10V Range 100X
4508.10048                                                0.000001316847608
V               -0.0003               0.0003       Delta : Volt Meter 10V Range
100X : 0.00
4508.10049                                  Exp= 0.09604     Act= 0.09604
V                                                Volt Meter 10V Range 100X
4508.10050                                               -0.000002963860859
V            -0.0003475            0.0003475       Delta : Volt Meter 10V Range
100X : 0.10
4508.10051                                  Exp= -2.84890    Act= -2.84892
V                                                Volt Meter 30V Range 10X
4508.10052                                               -0.000025568525519
V             -0.003425             0.003425       Delta : Volt Meter 30V Range
10X : -2.85
4508.10053                                  Exp= 0.00114     Act= 0.00112
V                                                Volt Meter 30V Range 10X
4508.10054                                               -0.000022069386064
V                -0.002                0.002       Delta : Volt Meter 30V Range
10X : 0.00
4508.10055                                  Exp= 2.85099     Act= 2.85098
V                                                Volt Meter 30V Range 10X
4508.10056                                               -0.000014453208901
V             -0.003425             0.003425       Delta : Volt Meter 30V Range
10X : 2.85
4508.10057                                  Exp= -0.28395    Act= -0.28396
V                                                Volt Meter 30V Range 100X
4508.10058                                               -0.000012671500737
V            -0.0011425            0.0011425       Delta : Volt Meter 30V Range
100X : -0.29
4508.10059                                  Exp= 0.00114     Act= 0.00113
V                                                Volt Meter 30V Range 100X
4508.10060                                               -0.000013460280415
V               -0.001                 0.001       Delta : Volt Meter 30V Range
100X : 0.00
4508.10061                                  Exp= 0.28598     Act= 0.28594
V                                                Volt Meter 30V Range 100X
4508.10062                                               -0.000031546239431
```

```
V           -0.0011425            0.0011425       Delta : Volt Meter 30V Range
100X : 0.29
4508.10063                                  Exp= -9.49931    Act= -9.49949
V                                                   Volt Meter 100V Range 10X
4508.10064                                                  -0.000182813513506
V            -0.01075              0.01075       Delta : Volt Meter 100V Range
10X : -9.50
4508.10065                                  Exp= 0.00106     Act= 0.00103
V                                                   Volt Meter 100V Range 10X
4508.10066                                                  -0.000028526995930
V              -0.006                0.006       Delta : Volt Meter 100V Range
10X : 0.00
4508.10067                                  Exp= 9.50085     Act= 9.50077
V                                                   Volt Meter 100V Range 10X
4508.10068                                                  -0.000084670969427
V            -0.01075              0.01075       Delta : Volt Meter 100V Range
10X : 9.50
4508.10069                                  Exp= -0.94894    Act= -0.94899
V                                                   Volt Meter 100V Range 100X
4508.10070                                                  -0.000047623954844
V           -0.003475             0.003475       Delta : Volt Meter 100V Range
100X : -0.95
4508.10071                                  Exp= 0.00113     Act= 0.00105
V                                                   Volt Meter 100V Range 100X
4508.10072                                                  -0.000080449874330
V              -0.003                0.003       Delta : Volt Meter 100V Range
100X : 0.00
4508.10073                                  Exp= 0.95105     Act= 0.95093
V                                                   Volt Meter 100V Range 100X
4508.10074                                                  -0.000123144078754
V           -0.003475             0.003475       Delta : Volt Meter 100V Range
100X : 0.95
4509.10000                                                              48.9  deg
C                                                   MotherBoard Cal Temperature
4509.10001                                                              48.6  deg
C                                                   MotherBoard Chk Temperature
4509.10002   MotherBoard temperature check Exp = 48.932281, Act = 48.631273
MotherBoard Chk Temperature
4509.10003                                                                 0
status                                          0       MotherBoard Chk
```

Temperature
4509.10004 52.6 deg
C Control Board Cal Temperature
4509.10005 53.0 deg
C Control Board Chk Temperature
4509.10006 Control Board temperature check Exp = 52.636826, Act = 52.991386
Control Board Chk Temperature
4509.10007 0
status 0 Control Board Chk
Temperature
Datalog for: Check HPU-103 REV 43, Site #0, Bin #1
TEST# RESULT
UNITS LOWER UPPER ALARM TEST NAME
---------- ---------- ---------- ----- ----------
4500.0 0
0 If this failed there are Fatal Errors during Startup, Check System
Monitor
4500.1000 ETS1UOJUM00038
COMPUTER INFORMATION - Name
4500.1001 1000.000000
V DIAG/CAL INFORMATION - Maximum
Voltage
4500.1101 0
0 PLD REVISION INFORMATION
4500.1103 0
0 PLD REVISION INFORMATION
4500.1105 3
3 PLD REVISION INFORMATION
4500.1106 DATA[0]={0, 0, 1, 0, 5}
PLD REVISION INFORMATION
4500.1107 DATA[1]={0, 1, 1, 0, 8}
PLD REVISION INFORMATION
4500.1108 DATA[2]={0, 0, 1, 0, 1990}
PLD REVISION INFORMATION
4501.10000 -29.99440
V -30.027 -29.973 LC->LC 16 Bit DRV 30V Range
4501.10001 0.005599000000000
V -0.027 0.027 Delta : LC->LC 16 Bit DRV 30V

Range : -30.00
4501.10002 -25.99800
V -26.025 -25.975 LC->LC 16 Bit DRV 30V Range
4501.10003 0.001996999999999
V -0.025 0.025 Delta : LC->LC 16 Bit DRV 30V
Range : -26.00
4501.10004 -22.00074
V -22.023 -21.977 LC->LC 16 Bit DRV 30V Range
4501.10005 -0.000737200000000
V -0.023 0.023 Delta : LC->LC 16 Bit DRV 30V
Range : -22.00
4501.10006 -18.00143
V -18.021 -17.979 LC->LC 16 Bit DRV 30V Range
4501.10007 -0.001431499999999
V -0.021 0.021 Delta : LC->LC 16 Bit DRV 30V
Range : -18.00
4501.10008 -10.00446
V -10.017 -9.983 LC->LC 16 Bit DRV 30V Range
4501.10009 -0.004458000000000
V -0.017 0.017 Delta : LC->LC 16 Bit DRV 30V
Range : -10.00
4501.10010 -0.00371
V -0.012 0.012 LC->LC 16 Bit DRV 30V Range
4501.10011 -0.003706201560000
V -0.012 0.012 Delta : LC->LC 16 Bit DRV 30V
Range : 0.00
4501.10012 9.99766
V 9.983 10.017 LC->LC 16 Bit DRV 30V Range
4501.10013 -0.002342219999999
V -0.017 0.017 Delta : LC->LC 16 Bit DRV 30V
Range : 10.00
4501.10014 18.00000
V 17.979 18.021 LC->LC 16 Bit DRV 30V Range
4501.10015 0.000004799999999
V -0.021 0.021 Delta : LC->LC 16 Bit DRV 30V
Range : 18.00
4501.10016 22.00039
V 21.977 22.023 LC->LC 16 Bit DRV 30V Range
4501.10017 0.000386200000001
V -0.023 0.023 Delta : LC->LC 16 Bit DRV 30V

Range : 22.00
4501.10018 26.00143
V 25.975 26.025 LC->LC 16 Bit DRV 30V Range
4501.10019 0.001430500000001
V -0.025 0.025 Delta : LC->LC 16 Bit DRV 30V
Range : 26.00
4501.10020 30.00229
V 29.973 30.027 LC->LC 16 Bit DRV 30V Range
4501.10021 0.002287899999999
V -0.027 0.027 Delta : LC->LC 16 Bit DRV 30V
Range : 30.00
4501.10022 -9.99837
V -10.013 -9.987 LC->LC 16 Bit DRV 10V Range
4501.10023 0.001627920000001
V -0.013 0.013 Delta : LC->LC 16 Bit DRV 10V
Range : -10.00
4501.10024 -7.99966
V -8.012 -7.988 LC->LC 16 Bit DRV 10V Range
4501.10025 0.000340700000000
V -0.012 0.012 Delta : LC->LC 16 Bit DRV 10V
Range : -8.00
4501.10026 -6.00013
V -6.011 -5.989 LC->LC 16 Bit DRV 10V Range
4501.10027 -0.000133280000000
V -0.011 0.011 Delta : LC->LC 16 Bit DRV 10V
Range : -6.00
4501.10028 -4.00097
V -4.01 -3.99 LC->LC 16 Bit DRV 10V Range
4501.10029 -0.000972030000000
V -0.01 0.01 Delta : LC->LC 16 Bit DRV 10V
Range : -4.00
4501.10030 -2.00121
V -2.009 -1.991 LC->LC 16 Bit DRV 10V Range
4501.10031 -0.001207710000000
V -0.009 0.009 Delta : LC->LC 16 Bit DRV 10V
Range : -2.00
4501.10032 -0.00073
V -0.008 0.008 LC->LC 16 Bit DRV 10V Range
4501.10033 -0.000731636421000
V -0.008 0.008 Delta : LC->LC 16 Bit DRV 10V

Range : 0.00
4501.10034 1.99927
V 1.991 2.009 LC->LC 16 Bit DRV 10V Range
4501.10035 -0.000730450000000
V -0.009 0.009 Delta : LC->LC 16 Bit DRV 10V
Range : 2.00
4501.10036 3.99995
V 3.99 4.01 LC->LC 16 Bit DRV 10V Range
4501.10037 -0.000054480000000
V -0.01 0.01 Delta : LC->LC 16 Bit DRV 10V
Range : 4.00
4501.10038 6.00025
V 5.989 6.011 LC->LC 16 Bit DRV 10V Range
4501.10039 0.000254150000000
V -0.011 0.011 Delta : LC->LC 16 Bit DRV 10V
Range : 6.00
4501.10040 8.00047
V 7.988 8.012 LC->LC 16 Bit DRV 10V Range
4501.10041 0.000469680000000
V -0.012 0.012 Delta : LC->LC 16 Bit DRV 10V
Range : 8.00
4501.10042 10.00091
V 9.987 10.013 LC->LC 16 Bit DRV 10V Range
4501.10043 0.000911700000000
V -0.013 0.013 Delta : LC->LC 16 Bit DRV 10V
Range : 10.00
4502.10000 -29.99926
V -30.014 -29.987 LC->LC 18 Bit DRV 30V Range
4502.10001 0.000741999999999
V -0.0135 0.0135 Delta : LC->LC 18 Bit DRV 30V
Range : -30.00
4502.10002 -15.00067
V -15.01 -14.99 LC->LC 18 Bit DRV 30V Range
4502.10003 -0.000669500000001
V -0.00975 0.00975 Delta : LC->LC 18 Bit DRV 30V
Range : -15.00
4502.10004 -0.00015
V -0.006 0.006 LC->LC 18 Bit DRV 30V Range
4502.10005 -0.000146268270000
V -0.006 0.006 Delta : LC->LC 18 Bit DRV 30V

Range : 0.00			
4502.10006			15.00046
V	14.99	15.01	LC->LC 18 Bit DRV 30V Range
4502.10007			0.000456800000000
V	-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V
Range : 15.00			
4502.10008			29.99972
V	29.987	30.014	LC->LC 18 Bit DRV 30V Range
4502.10009			-0.000282299999999
V	-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V
Range : 30.00			
4502.10010			-9.99994
V	-10.007	-9.9935	LC->LC 18 Bit DRV 10V Range
4502.10011			0.000060080000001
V	-0.0065	0.0065	Delta : LC->LC 18 Bit DRV 10V
Range : -10.00			
4502.10012			-5.00018
V	-5.0053	-4.9948	LC->LC 18 Bit DRV 10V Range
4502.10013			-0.000177620000000
V	-0.00525	0.00525	Delta : LC->LC 18 Bit DRV 10V
Range : -5.00			
4502.10014			0.00000
V	-0.004	0.004	LC->LC 18 Bit DRV 10V Range
4502.10015			0.000004833545520
V	-0.004	0.004	Delta : LC->LC 18 Bit DRV 10V
Range : 0.00			
4502.10016			5.00011
V	4.9948	5.0053	LC->LC 18 Bit DRV 10V Range
4502.10017			0.000113490000000
V	-0.00525	0.00525	Delta : LC->LC 18 Bit DRV 10V
Range : 5.00			
4502.10018			9.99993
V	9.9935	10.007	LC->LC 18 Bit DRV 10V Range
4502.10019			-0.000069620000000
V	-0.0065	0.0065	Delta : LC->LC 18 Bit DRV 10V
Range : 10.00			
4503.10000			-100.00026
V	-100.04	-99.963	LC->LC V/I Mode FV 100V Range
4503.10001			-0.000255999999993
V	-0.0375	0.0375	Delta : LC->LC V/I Mode FV 100V

Range : -100.00
4503.10002 Exp= -100.00026 Act= -100.00074
V LC->LC V/I Mode MV 100V Range
4503.10003 -0.000480135327024
V -0.0375 0.0375 Delta : LC->LC V/I Mode MV 100V
Range : -100.00
4503.10004 -49.99990
V -50.025 -49.975 LC->LC V/I Mode FV 100V Range
4503.10005 0.000097300000000
V -0.025 0.025 Delta : LC->LC V/I Mode FV 100V
Range : -50.00
4503.10006 Exp= -49.99990 Act= -50.00022
V LC->LC V/I Mode MV 100V Range
4503.10007 -0.000316725390363
V -0.025 0.025 Delta : LC->LC V/I Mode MV 100V
Range : -50.00
4503.10008 0.00045
V -0.0125 0.0125 LC->LC V/I Mode FV 100V Range
4503.10009 0.000449147003000
V -0.0125 0.0125 Delta : LC->LC V/I Mode FV 100V
Range : 0.00
4503.10010 Exp= 0.00045 Act= 0.00009
V LC->LC V/I Mode MV 100V Range
4503.10011 -0.000354888876778
V -0.0125 0.0125 Delta : LC->LC V/I Mode MV 100V
Range : 0.00
4503.10012 50.00006
V 49.975 50.025 LC->LC V/I Mode FV 100V Range
4503.10013 0.000061000000002
V -0.025 0.025 Delta : LC->LC V/I Mode FV 100V
Range : 50.00
4503.10014 Exp= 50.00006 Act= 50.00064
V LC->LC V/I Mode MV 100V Range
4503.10015 0.000581880709589
V -0.025 0.025 Delta : LC->LC V/I Mode MV 100V
Range : 50.00
4503.10016 99.99958
V 99.963 100.04 LC->LC V/I Mode FV 100V Range
4503.10017 -0.000423400000003
V -0.0375 0.0375 Delta : LC->LC V/I Mode FV 100V

```
Range : 100.00
4503.10018                                  Exp= 99.99958     Act= 100.00050
V                                                 LC->LC V/I Mode MV 100V Range
4503.10019                                                  0.000925242040225
V              -0.0375                0.0375       Delta : LC->LC V/I Mode MV 100V
Range : 100.00
4503.10020                                                             -29.99988
V               -30.01                -29.99       LC->LC V/I Mode FV 30V Range
4503.10021                                                  0.000115399999999
V                -0.01                  0.01       Delta : LC->LC V/I Mode FV 30V
Range : -30.00
4503.10022                                  Exp= -29.99988    Act= -30.00022
V                                                 LC->LC V/I Mode MV 30V Range
4503.10023                                                 -0.000331533315247
V                -0.01                  0.01       Delta : LC->LC V/I Mode MV 30V
Range : -30.00
4503.10024                                                             -14.99994
V              -15.006               -14.994       LC->LC V/I Mode FV 30V Range
4503.10025                                                  0.000058200000000
V              -0.00625               0.00625       Delta : LC->LC V/I Mode FV 30V
Range : -15.00
4503.10026                                  Exp= -14.99994    Act= -14.99991
V                                                 LC->LC V/I Mode MV 30V Range
4503.10027                                                  0.000035046263058
V              -0.00625               0.00625       Delta : LC->LC V/I Mode MV 30V
Range : -15.00
4503.10028                                                               0.00012
V               -0.0025                0.0025       LC->LC V/I Mode FV 30V Range
4503.10029                                                  0.000118935306000
V               -0.0025                0.0025       Delta : LC->LC V/I Mode FV 30V
Range : 0.00
4503.10030                                  Exp= 0.00012      Act= -0.00000
V                                                 LC->LC V/I Mode MV 30V Range
4503.10031                                                 -0.000122698498955
V               -0.0025                0.0025       Delta : LC->LC V/I Mode MV 30V
Range : 0.00
4503.10032                                                              14.99999
V                14.994                 15.006       LC->LC V/I Mode FV 30V Range
4503.10033                                                 -0.000005700000001
V              -0.00625               0.00625       Delta : LC->LC V/I Mode FV 30V
```

```
Range : 15.00
4503.10034                              Exp= 14.99999     Act= 15.00030
V                                               LC->LC V/I Mode MV 30V Range
4503.10035                                              0.000302428776967
V             -0.00625                  0.00625       Delta : LC->LC V/I Mode MV 30V
Range : 15.00
4503.10036                                                        29.99986
V                29.99                    30.01       LC->LC V/I Mode FV 30V Range
4503.10037                                             -0.000142100000001
V                -0.01                     0.01       Delta : LC->LC V/I Mode FV 30V
Range : 30.00
4503.10038                              Exp= 29.99986     Act= 30.00003
V                                               LC->LC V/I Mode MV 30V Range
4503.10039                                              0.000177029354330
V                -0.01                     0.01       Delta : LC->LC V/I Mode MV 30V
Range : 30.00
4503.10040                                                       -10.00001
V              -10.003                   -9.9967       LC->LC V/I Mode FV 10V Range
4503.10041                                             -0.000011900000001
V              -0.0033                    0.0033       Delta : LC->LC V/I Mode FV 10V
Range : -10.00
4503.10042                              Exp= -10.00001    Act= -10.00013
V                                               LC->LC V/I Mode MV 10V Range
4503.10043                                             -0.000120327240589
V              -0.0033                    0.0033       Delta : LC->LC V/I Mode MV 10V
Range : -10.00
4503.10044                                                        -4.99999
V              -5.0021                    -4.998       LC->LC V/I Mode FV 10V Range
4503.10045                                              0.000009300000000
V             -0.00205                  0.00205       Delta : LC->LC V/I Mode FV 10V
Range : -5.00
4503.10046                              Exp= -4.99999     Act= -4.99998
V                                               LC->LC V/I Mode MV 10V Range
4503.10047                                              0.000012400784416
V             -0.00205                  0.00205       Delta : LC->LC V/I Mode MV 10V
Range : -5.00
4503.10048                                                        -0.00002
V              -0.0008                    0.0008       LC->LC V/I Mode FV 10V Range
4503.10049                                             -0.000015054095900
V              -0.0008                    0.0008       Delta : LC->LC V/I Mode FV 10V
```

Range : 0.00
4503.10050 Exp= -0.00002 Act= -0.00004
V LC->LC V/I Mode MV 10V Range
4503.10051 -0.000021370929661
V -0.0008 0.0008 Delta : LC->LC V/I Mode MV 10V
Range : 0.00
4503.10052 5.00001
V 4.998 5.0021 LC->LC V/I Mode FV 10V Range
4503.10053 0.000009300000000
V -0.00205 0.00205 Delta : LC->LC V/I Mode FV 10V
Range : 5.00
4503.10054 Exp= 5.00001 Act= 5.00005
V LC->LC V/I Mode MV 10V Range
4503.10055 0.000044594220073
V -0.00205 0.00205 Delta : LC->LC V/I Mode MV 10V
Range : 5.00
4503.10056 9.99996
V 9.9967 10.003 LC->LC V/I Mode FV 10V Range
4503.10057 -0.000041960000001
V -0.0033 0.0033 Delta : LC->LC V/I Mode FV 10V
Range : 10.00
4503.10058 Exp= 9.99996 Act= 10.00002
V LC->LC V/I Mode MV 10V Range
4503.10059 0.000063432849215
V -0.0033 0.0033 Delta : LC->LC V/I Mode MV 10V
Range : 10.00
4503.10060 -74.99973
V -75.031 -74.969 HC->HC V/I Mode FV 75V Range
4503.10061 0.000266999999994
V -0.03125 0.03125 Delta : HC->HC V/I Mode FV 75V
Range : -75.00
4503.10062 Exp= -74.99973 Act= -74.99975
V HC->HC V/I Mode MV 75V Range
4503.10063 -0.000019217045377
V -0.03125 0.03125 Delta : HC->HC V/I Mode MV 75V
Range : -75.00
4503.10064 -37.49998
V -37.522 -37.478 HC->HC V/I Mode FV 75V Range
4503.10065 0.000020999999997
V -0.021875 0.021875 Delta : HC->HC V/I Mode FV 75V

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Range : -37.50
4503.10066                                  Exp= -37.49998    Act= -37.49990
V                                                 HC->HC V/I Mode MV 75V Range
4503.10067                                                  0.000075832174389
V            -0.021875              0.021875       Delta : HC->HC V/I Mode MV 75V
Range : -37.50
4503.10068                                                            0.00035
V              -0.0125                0.0125       HC->HC V/I Mode FV 75V Range
4503.10069                                                  0.000354959106000
V              -0.0125                0.0125       Delta : HC->HC V/I Mode FV 75V
Range : 0.00
4503.10070                                  Exp= 0.00035      Act= 0.00010
V                                                 HC->HC V/I Mode MV 75V Range
4503.10071                                                 -0.000254412837860
V              -0.0125                0.0125       Delta : HC->HC V/I Mode MV 75V
Range : 0.00
4503.10072                                                           37.50046
V               37.478                 37.522       HC->HC V/I Mode FV 75V Range
4503.10073                                                  0.000457800000000
V            -0.021875              0.021875       Delta : HC->HC V/I Mode FV 75V
Range : 37.50
4503.10074                                  Exp= 37.50046     Act= 37.50094
V                                                 HC->HC V/I Mode MV 75V Range
4503.10075                                                  0.000482396321701
V            -0.021875              0.021875       Delta : HC->HC V/I Mode MV 75V
Range : 37.50
4503.10076                                                           74.99952
V               74.969                 75.031       HC->HC V/I Mode FV 75V Range
4503.10077                                                 -0.000484499999999
V             -0.03125               0.03125       Delta : HC->HC V/I Mode FV 75V
Range : 75.00
4503.10078                                  Exp= 74.99952     Act= 75.00052
V                                                 HC->HC V/I Mode MV 75V Range
4503.10079                                                  0.001007770513709
V             -0.03125               0.03125       Delta : HC->HC V/I Mode MV 75V
Range : 75.00
4503.10080                                                          -30.00000
V              -30.01                 -29.99       HC->HC V/I Mode FV 30V Range
4503.10081                                                  0.000001900000001
V               -0.01                   0.01       Delta : HC->HC V/I Mode FV 30V
```

```
Range : -30.00
4503.10082                                  Exp= -30.00000    Act= -30.00035
V                                                 HC->HC V/I Mode MV 30V Range
4503.10083                                                 -0.000356765251126
V                -0.01                 0.01       Delta : HC->HC V/I Mode MV 30V
Range : -30.00
4503.10084                                                            -14.99998
V              -15.006               -14.994       HC->HC V/I Mode FV 30V Range
4503.10085                                                  0.000018100000000
V             -0.00625              0.00625       Delta : HC->HC V/I Mode FV 30V
Range : -15.00
4503.10086                                  Exp= -14.99998    Act= -15.00007
V                                                 HC->HC V/I Mode MV 30V Range
4503.10087                                                 -0.000092781042920
V             -0.00625              0.00625       Delta : HC->HC V/I Mode MV 30V
Range : -15.00
4503.10088                                                             0.00006
V              -0.0025               0.0025       HC->HC V/I Mode FV 30V Range
4503.10089                                                  0.000058728925100
V              -0.0025               0.0025       Delta : HC->HC V/I Mode FV 30V
Range : 0.00
4503.10090                                  Exp= 0.00006      Act= 0.00015
V                                                 HC->HC V/I Mode MV 30V Range
4503.10091                                                  0.000091222433181
V              -0.0025               0.0025       Delta : HC->HC V/I Mode MV 30V
Range : 0.00
4503.10092                                                            15.00001
V               14.994                15.006       HC->HC V/I Mode FV 30V Range
4503.10093                                                  0.000008100000001
V             -0.00625              0.00625       Delta : HC->HC V/I Mode FV 30V
Range : 15.00
4503.10094                                  Exp= 15.00001     Act= 15.00018
V                                                 HC->HC V/I Mode MV 30V Range
4503.10095                                                  0.000174513877711
V             -0.00625              0.00625       Delta : HC->HC V/I Mode MV 30V
Range : 15.00
4503.10096                                                            29.99980
V                29.99                 30.01       HC->HC V/I Mode FV 30V Range
4503.10097                                                 -0.000204100000001
V                -0.01                 0.01       Delta : HC->HC V/I Mode FV 30V
```

```
Range : 30.00
4503.10098                          Exp= 29.99980    Act= 29.99971
V                                          HC->HC V/I Mode MV 30V Range
4503.10099                                        -0.000089271021491
V                -0.01                0.01       Delta : HC->HC V/I Mode MV 30V
Range : 30.00
4503.10100                                                    -9.99997
V              -10.003              -9.9967       HC->HC V/I Mode FV 10V Range
4503.10101                                         0.000033380000000
V              -0.0033               0.0033       Delta : HC->HC V/I Mode FV 10V
Range : -10.00
4503.10102                          Exp= -9.99997    Act= -10.00001
V                                          HC->HC V/I Mode MV 10V Range
4503.10103                                        -0.000042666324987
V              -0.0033               0.0033       Delta : HC->HC V/I Mode MV 10V
Range : -10.00
4503.10104                                                    -4.99999
V              -5.0021               -4.998       HC->HC V/I Mode FV 10V Range
4503.10105                                         0.000011920000000
V             -0.00205              0.00205       Delta : HC->HC V/I Mode FV 10V
Range : -5.00
4503.10106                          Exp= -4.99999    Act= -5.00000
V                                          HC->HC V/I Mode MV 10V Range
4503.10107                                        -0.000011833218463
V             -0.00205              0.00205       Delta : HC->HC V/I Mode MV 10V
Range : -5.00
4503.10108                                                     0.00001
V              -0.0008               0.0008       HC->HC V/I Mode FV 10V Range
4503.10109                                         0.000014020971500
V              -0.0008               0.0008       Delta : HC->HC V/I Mode FV 10V
Range : 0.00
4503.10110                          Exp= 0.00001     Act= 0.00001
V                                          HC->HC V/I Mode MV 10V Range
4503.10111                                        -0.000008824828418
V              -0.0008               0.0008       Delta : HC->HC V/I Mode MV 10V
Range : 0.00
4503.10112                                                     5.00005
V                4.998               5.0021       HC->HC V/I Mode FV 10V Range
4503.10113                                         0.000053880000000
V             -0.00205              0.00205       Delta : HC->HC V/I Mode FV 10V
```

```
Range : 5.00
4503.10114                              Exp= 5.00005      Act= 5.00012
V                                              HC->HC V/I Mode MV 10V Range
4503.10115                                              0.000070701927082
V             -0.00205                0.00205       Delta : HC->HC V/I Mode MV 10V
Range : 5.00
4503.10116                                                        9.99995
V               9.9967                10.003        HC->HC V/I Mode FV 10V Range
4503.10117                                             -0.000046729999999
V              -0.0033                0.0033        Delta : HC->HC V/I Mode FV 10V
Range : 10.00
4503.10118                              Exp= 9.99995      Act= 10.00004
V                                              HC->HC V/I Mode MV 10V Range
4503.10119                                              0.000085074609155
V              -0.0033                0.0033        Delta : HC->HC V/I Mode MV 10V
Range : 10.00
4503.10120                                                  HC relays OK
DIB HC Relays Check
4503.10121                                                              0
status                                         0       DIB HC Relays Check
4504.11000                                        HC relays verified
DIB HC Relays Check
4504.11001                                                              0
status                                         0       DIB HC Relays Check
4504.11002                                                   -500.00000
mA              -500.38                -499.63        LC->LC FI 100V Range 500mA
4504.11003                                              0.000000000000000
mA              -0.375                   0.375        Delta : LC->LC FI 100V Range
500mA : -500.00
4504.11004                           Exp= -500.00000  Act= -500.00151
mA                                             LC->LC MI 100V Range 500mA
4504.11005                                             -0.001508769546319
mA               -0.375                  0.375        Delta : LC->LC MI 100V Range
500mA : -500.00
4504.11006                                                   -249.99694
mA              -250.25                -249.75        LC->LC FI 100V Range 500mA
4504.11007                                              0.003062000000000
mA                -0.25                   0.25        Delta : LC->LC FI 100V Range
500mA : -250.00
4504.11008                           Exp= -249.99694  Act= -249.99657
```

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mA                                                  LC->LC MI 100V Range 500mA
4504.11009                                                 0.000368307794162
mA                -0.25                0.25         Delta : LC->LC MI 100V Range
500mA : -250.00
4504.11010                                                          0.00284
mA                -0.125               0.125        LC->LC FI 100V Range 500mA
4504.11011                                                 0.002838395060000
mA                -0.125               0.125        Delta : LC->LC FI 100V Range
500mA : 0.00
4504.11012                          Exp= 0.00284     Act= 0.00070
mA                                                  LC->LC MI 100V Range 500mA
4504.11013                                               -0.002135605087558
mA                -0.125               0.125        Delta : LC->LC MI 100V Range
500mA : 0.00
4504.11014                                                         250.00069
mA                249.75               250.25       LC->LC FI 100V Range 500mA
4504.11015                                                 0.000692999999984
mA                -0.25                0.25         Delta : LC->LC FI 100V Range
500mA : 250.00
4504.11016                          Exp= 250.00069   Act= 249.99949
mA                                                  LC->LC MI 100V Range 500mA
4504.11017                                             -0.001201389827770
mA                -0.25                0.25         Delta : LC->LC MI 100V Range
500mA : 250.00
4504.11018                                                         500.00256
mA                499.63               500.38       LC->LC FI 100V Range 500mA
4504.11019                                                 0.002563000000009
mA                -0.375               0.375        Delta : LC->LC FI 100V Range
500mA : 500.00
4504.11020                          Exp= 500.00256   Act= 500.00461
mA                                                  LC->LC MI 100V Range 500mA
4504.11021                                                 0.002047313580192
mA                -0.375               0.375        Delta : LC->LC MI 100V Range
500mA : 500.00
4504.11022                                                        -950.00410
mA                -950.6               -949.4       LC->LC FI 30V Range 1A
4504.11023                                               -0.004100999999991
mA                 -0.6                 0.6         Delta : LC->LC FI 30V Range
1A : -950.00
4504.11024                          Exp= -950.00410  Act= -950.00159
```

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mA                                                  LC->LC MI 30V Range 1A
4504.11025                                                 0.002508273442913
mA                -0.6                0.6       Delta : LC->LC MI 30V Range
1A : -950.00
4504.11026                                                      -475.00208
mA              -475.36             -474.64       LC->LC FI 30V Range 1A
4504.11027                                               -0.002079999999978
mA              -0.3625             0.3625        Delta : LC->LC FI 30V Range
1A : -475.00
4504.11028                          Exp= -475.00208  Act= -475.00203
mA                                                  LC->LC MI 30V Range 1A
4504.11029                                                 0.000046936183310
mA              -0.3625             0.3625        Delta : LC->LC MI 30V Range
1A : -475.00
4504.11030                                                      0.00338
mA               -0.125              0.125        LC->LC FI 30V Range 1A
4504.11031                                                 0.003375388700000
mA               -0.125              0.125        Delta : LC->LC FI 30V Range
1A : 0.00
4504.11032                          Exp= 0.00338     Act= 0.00039
mA                                                  LC->LC MI 30V Range 1A
4504.11033                                               -0.002980692148389
mA               -0.125              0.125        Delta : LC->LC MI 30V Range
1A : 0.00
4504.11034                                                      475.00737
mA               474.64              475.36        LC->LC FI 30V Range 1A
4504.11035                                                 0.007369999999980
mA              -0.3625             0.3625        Delta : LC->LC FI 30V Range
1A : 475.00
4504.11036                          Exp= 475.00737   Act= 475.00860
mA                                                  LC->LC MI 30V Range 1A
4504.11037                                                 0.001232970417789
mA              -0.3625             0.3625        Delta : LC->LC MI 30V Range
1A : 475.00
4504.11038                                                      950.00425
mA                949.4               950.6       LC->LC FI 30V Range 1A
4504.11039                                                 0.004249999999956
mA                -0.6                0.6       Delta : LC->LC FI 30V Range
1A : 950.00
4504.11040                          Exp= 950.00425   Act= 949.99157
```

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mA                                                  LC->LC MI 30V Range 1A
4504.11041                                                -0.012675026248871
mA                -0.6                0.6       Delta : LC->LC MI 30V Range
1A : 950.00
4504.11042                                                      -100.00069
mA              -100.06             -99.938       LC->LC FI 30V Range 100mA
4504.11043                                              -0.000693999999996
mA              -0.0625             0.0625        Delta : LC->LC FI 30V Range
100mA : -100.00
4504.11044                          Exp= -100.00069  Act= -99.99979
mA                                                  LC->LC MI 30V Range 100mA
4504.11045                                               0.000907135511255
mA              -0.0625             0.0625        Delta : LC->LC MI 30V Range
100mA : -100.00
4504.11046                                                       -50.00011
mA              -50.038             -49.963       LC->LC FI 30V Range 100mA
4504.11047                                              -0.000105099999999
mA              -0.0375             0.0375        Delta : LC->LC FI 30V Range
100mA : -50.00
4504.11048                          Exp= -50.00011   Act= -49.99979
mA                                                  LC->LC MI 30V Range 100mA
4504.11049                                               0.000316162781161
mA              -0.0375             0.0375        Delta : LC->LC MI 30V Range
100mA : -50.00
4504.11050                                                        0.00002
mA              -0.0125             0.0125        LC->LC FI 30V Range 100mA
4504.11051                                               0.000016703058500
mA              -0.0125             0.0125        Delta : LC->LC FI 30V Range
100mA : 0.00
4504.11052                          Exp= 0.00002     Act= -0.00011
mA                                                  LC->LC MI 30V Range 100mA
4504.11053                                              -0.000130465755654
mA              -0.0125             0.0125        Delta : LC->LC MI 30V Range
100mA : 0.00
4504.11054                                                       50.00047
mA               49.963             50.038        LC->LC FI 30V Range 100mA
4504.11055                                               0.000468300000001
mA              -0.0375             0.0375        Delta : LC->LC FI 30V Range
100mA : 50.00
4504.11056                          Exp= 50.00047    Act= 50.00018
```

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mA                                                  LC->LC MI 30V Range 100mA
4504.11057                                                -0.000288103675821
mA              -0.0375             0.0375          Delta : LC->LC MI 30V Range
100mA : 50.00
4504.11058                                                          99.99998
mA               99.938             100.06          LC->LC FI 30V Range 100mA
4504.11059                                                -0.000017099999994
mA              -0.0625             0.0625          Delta : LC->LC FI 30V Range
100mA : 100.00
4504.11060                          Exp= 99.99998    Act= 100.00015
mA                                                  LC->LC MI 30V Range 100mA
4504.11061                                                 0.000163580942314
mA              -0.0625             0.0625          Delta : LC->LC MI 30V Range
100mA : 100.00
4504.11062                                                         -9.99997
mA              -10.006             -9.9938         LC->LC FI 30V Range 10mA
4504.11063                                                 0.000026770000000
mA             -0.00625            0.00625          Delta : LC->LC FI 30V Range
10mA : -10.00
4504.11064                          Exp= -9.99997    Act= -9.99990
mA                                                  LC->LC MI 30V Range 10mA
4504.11065                                                 0.000076102647313
mA             -0.00625            0.00625          Delta : LC->LC MI 30V Range
10mA : -10.00
4504.11066                                                         -4.99995
mA              -5.0038             -4.9963         LC->LC FI 30V Range 10mA
4504.11067                                                 0.000050640000000
mA             -0.00375            0.00375          Delta : LC->LC FI 30V Range
10mA : -5.00
4504.11068                          Exp= -4.99995    Act= -4.99989
mA                                                  LC->LC MI 30V Range 10mA
4504.11069                                                 0.000063801354865
mA             -0.00375            0.00375          Delta : LC->LC MI 30V Range
10mA : -5.00
4504.11070                                                         -0.00002
mA             -0.00125            0.00125          LC->LC FI 30V Range 10mA
4504.11071                                                -0.000016331122200
mA             -0.00125            0.00125          Delta : LC->LC FI 30V Range
10mA : 0.00
4504.11072                          Exp= -0.00002    Act= 0.00002
```

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mA                                                  LC->LC MI 30V Range 10mA
4504.11073                                                 0.000040472313375
mA              -0.00125              0.00125       Delta : LC->LC MI 30V Range
10mA : 0.00
4504.11074                                                          5.00003
mA                4.9963                5.0038      LC->LC FI 30V Range 10mA
4504.11075                                                 0.000025030000000
mA              -0.00375              0.00375       Delta : LC->LC FI 30V Range
10mA : 5.00
4504.11076                          Exp= 5.00003     Act= 5.00002
mA                                                  LC->LC MI 30V Range 10mA
4504.11077                                               -0.000007728163642
mA              -0.00375              0.00375       Delta : LC->LC MI 30V Range
10mA : 5.00
4504.11078                                                         10.00002
mA                9.9938                10.006      LC->LC FI 30V Range 10mA
4504.11079                                                 0.000022100000001
mA              -0.00625              0.00625       Delta : LC->LC FI 30V Range
10mA : 10.00
4504.11080                          Exp= 10.00002    Act= 9.99994
mA                                                  LC->LC MI 30V Range 10mA
4504.11081                                              -0.000080452852835
mA              -0.00625              0.00625       Delta : LC->LC MI 30V Range
10mA : 10.00
4504.11082                                                         -1.00000
mA               -1.0006              -0.99938      LC->LC FI 30V Range 1mA
4504.11083                                               -0.000001740000000
mA             -0.000625             0.000625       Delta : LC->LC FI 30V Range
1mA : -1.00
4504.11084                          Exp= -1.00000    Act= -1.00000
mA                                                  LC->LC MI 30V Range 1mA
4504.11085                                                 0.000002937693914
mA             -0.000625             0.000625       Delta : LC->LC MI 30V Range
1mA : -1.00
4504.11086                                                         -0.50000
mA              -0.50038              -0.49963      LC->LC FI 30V Range 1mA
4504.11087                                               -0.000000839000000
mA             -0.000375             0.000375       Delta : LC->LC FI 30V Range
1mA : -0.50
4504.11088                          Exp= -0.50000    Act= -0.50000
```

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mA                                                  LC->LC MI 30V Range 1mA
4504.11089                                                 0.000002837896127
mA          -0.000375          0.000375       Delta : LC->LC MI 30V Range
1mA : -0.50
4504.11090                                                          0.00000
mA          -0.000125          0.000125       LC->LC FI 30V Range 1mA
4504.11091                                                 0.000001195648890
mA          -0.000125          0.000125       Delta : LC->LC FI 30V Range
1mA : 0.00
4504.11092                          Exp= 0.00000     Act= 0.00000
mA                                                  LC->LC MI 30V Range 1mA
4504.11093                                                 0.000000764097239
mA          -0.000125          0.000125       Delta : LC->LC MI 30V Range
1mA : 0.00
4504.11094                                                          0.50001
mA            0.49963            0.50038      LC->LC FI 30V Range 1mA
4504.11095                                                 0.000007300000000
mA          -0.000375          0.000375       Delta : LC->LC FI 30V Range
1mA : 0.50
4504.11096                          Exp= 0.50001     Act= 0.50000
mA                                                  LC->LC MI 30V Range 1mA
4504.11097                                               -0.000002828142934
mA          -0.000375          0.000375       Delta : LC->LC MI 30V Range
1mA : 0.50
4504.11098                                                          1.00000
mA            0.99938            1.0006       LC->LC FI 30V Range 1mA
4504.11099                                                 0.000004350000000
mA          -0.000625          0.000625       Delta : LC->LC FI 30V Range
1mA : 1.00
4504.11100                          Exp= 1.00000     Act= 0.99999
mA                                                  LC->LC MI 30V Range 1mA
4504.11101                                               -0.000009847373632
mA          -0.000625          0.000625       Delta : LC->LC MI 30V Range
1mA : 1.00
4504.11102                                                       -950.00139
mA            -950.73            -949.28      LC->LC FI 10V Range 2A
4504.11103                                               -0.001389000000017
mA             -0.725              0.725       Delta : LC->LC FI 10V Range
2A : -950.00
4504.11104                          Exp= -950.00139  Act= -950.00879
```

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mA                                                  LC->LC MI 10V Range 2A
4504.11105                                                -0.007403521416450
mA              -0.725              0.725       Delta : LC->LC MI 10V Range
2A : -950.00
4504.11106                                                      -475.00894
mA              -475.49             -474.51     LC->LC FI 10V Range 2A
4504.11107                                                -0.008935000000008
mA              -0.4875             0.4875      Delta : LC->LC FI 10V Range
2A : -475.00
4504.11108                      Exp= -475.00894  Act= -475.00757
mA                                                  LC->LC MI 10V Range 2A
4504.11109                                                 0.001365345471243
mA              -0.4875             0.4875      Delta : LC->LC MI 10V Range
2A : -475.00
4504.11110                                                       -0.00499
mA                -0.25               0.25      LC->LC FI 10V Range 2A
4504.11111                                               -0.004986369500000
mA                -0.25               0.25      Delta : LC->LC FI 10V Range
2A : 0.00
4504.11112                      Exp= -0.00499    Act= -0.00746
mA                                                  LC->LC MI 10V Range 2A
4504.11113                                               -0.002475352033451
mA                -0.25               0.25      Delta : LC->LC MI 10V Range
2A : 0.00
4504.11114                                                       475.00779
mA              474.51              475.49      LC->LC FI 10V Range 2A
4504.11115                                                0.007787000000008
mA              -0.4875             0.4875      Delta : LC->LC FI 10V Range
2A : 475.00
4504.11116                      Exp= 475.00779   Act= 475.01216
mA                                                  LC->LC MI 10V Range 2A
4504.11117                                                0.004377754800998
mA              -0.4875             0.4875      Delta : LC->LC MI 10V Range
2A : 475.00
4504.11118                                                       949.99895
mA              949.28              950.73      LC->LC FI 10V Range 2A
4504.11119                                               -0.001054999999951
mA              -0.725              0.725       Delta : LC->LC FI 10V Range
2A : 950.00
4504.11120                      Exp= 949.99895   Act= 950.00014
```

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mA                                                  LC->LC MI 10V Range 2A
4504.11121                                                 0.001192280200030
mA              -0.725              0.725       Delta : LC->LC MI 10V Range
2A : 950.00
4504.11122                                                      -199.99892
mA              -200.13             -199.88     LC->LC FI 10V Range 200mA
4504.11123                                                 0.001084999999989
mA              -0.125              0.125       Delta : LC->LC FI 10V Range
200mA : -200.00
4504.11124                        Exp= -199.99892  Act= -200.00024
mA                                              LC->LC MI 10V Range 200mA
4504.11125                                          -0.001325710627668
mA              -0.125              0.125       Delta : LC->LC MI 10V Range
200mA : -200.00
4504.11126                                                      -99.99973
mA              -100.08             -99.925     LC->LC FI 10V Range 200mA
4504.11127                                                 0.000274200000007
mA              -0.075              0.075       Delta : LC->LC FI 10V Range
200mA : -100.00
4504.11128                        Exp= -99.99973   Act= -99.99916
mA                                              LC->LC MI 10V Range 200mA
4504.11129                                                 0.000561134234246
mA              -0.075              0.075       Delta : LC->LC MI 10V Range
200mA : -100.00
4504.11130                                                       -0.00142
mA              -0.025              0.025       LC->LC FI 10V Range 200mA
4504.11131                                           -0.001419197480000
mA              -0.025              0.025       Delta : LC->LC FI 10V Range
200mA : 0.00
4504.11132                        Exp= -0.00142    Act= 0.00089
mA                                              LC->LC MI 10V Range 200mA
4504.11133                                                 0.002309788372590
mA              -0.025              0.025       Delta : LC->LC MI 10V Range
200mA : 0.00
4504.11134                                                       100.00080
mA              99.925              100.08      LC->LC FI 10V Range 200mA
4504.11135                                                 0.000799000000001
mA              -0.075              0.075       Delta : LC->LC FI 10V Range
200mA : 100.00
4504.11136                        Exp= 100.00080   Act= 100.00014
```

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mA                                                  LC->LC MI 10V Range 200mA
4504.11137                                                -0.000660706500668
mA              -0.075              0.075       Delta : LC->LC MI 10V Range
200mA : 100.00
4504.11138                                                        199.99726
mA               199.88             200.13      LC->LC FI 10V Range 200mA
4504.11139                                                -0.002738999999991
mA              -0.125              0.125       Delta : LC->LC FI 10V Range
200mA : 200.00
4504.11140                      Exp= 199.99726   Act= 199.99771
mA                                                  LC->LC MI 10V Range 200mA
4504.11141                                                 0.000451390032680
mA              -0.125              0.125       Delta : LC->LC MI 10V Range
200mA : 200.00
4504.11142                                                       -19.99988
mA             -20.013            -19.988      LC->LC FI 10V Range 20mA
4504.11143                                                 0.000124300000000
mA             -0.0125             0.0125      Delta : LC->LC FI 10V Range
20mA : -20.00
4504.11144                      Exp= -19.99988   Act= -19.99994
mA                                                  LC->LC MI 10V Range 20mA
4504.11145                                                -0.000062041223103
mA             -0.0125             0.0125      Delta : LC->LC MI 10V Range
20mA : -20.00
4504.11146                                                       -10.00002
mA             -10.008             -9.9925      LC->LC FI 10V Range 20mA
4504.11147                                                -0.000017900000000
mA             -0.0075             0.0075      Delta : LC->LC FI 10V Range
20mA : -10.00
4504.11148                      Exp= -10.00002   Act= -9.99986
mA                                                  LC->LC MI 10V Range 20mA
4504.11149                                                 0.000157351792160
mA             -0.0075             0.0075      Delta : LC->LC MI 10V Range
20mA : -10.00
4504.11150                                                         0.00003
mA             -0.0025             0.0025      LC->LC FI 10V Range 20mA
4504.11151                                                 0.000026724896500
mA             -0.0025             0.0025      Delta : LC->LC FI 10V Range
20mA : 0.00
4504.11152                      Exp= 0.00003     Act= -0.00001
```

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mA                                                  LC->LC MI 10V Range 20mA
4504.11153                                                -0.000041225247453
mA              -0.0025              0.0025         Delta : LC->LC MI 10V Range
20mA : 0.00
4504.11154                                                          9.99993
mA               9.9925              10.008         LC->LC FI 10V Range 20mA
4504.11155                                                -0.000065420000000
mA              -0.0075              0.0075         Delta : LC->LC FI 10V Range
20mA : 10.00
4504.11156                        Exp= 9.99993     Act= 9.99992
mA                                                  LC->LC MI 10V Range 20mA
4504.11157                                                -0.000012199557299
mA              -0.0075              0.0075         Delta : LC->LC MI 10V Range
20mA : 10.00
4504.11158                                                         20.00014
mA               19.988              20.013         LC->LC FI 10V Range 20mA
4504.11159                                                 0.000140199999997
mA              -0.0125              0.0125         Delta : LC->LC FI 10V Range
20mA : 20.00
4504.11160                        Exp= 20.00014    Act= 19.99988
mA                                                  LC->LC MI 10V Range 20mA
4504.11161                                                -0.000256211617867
mA              -0.0125              0.0125         Delta : LC->LC MI 10V Range
20mA : 20.00
4504.11162                                                         -1.99999
mA              -2.0013             -1.9988         LC->LC FI 10V Range 2mA
4504.11163                                                 0.000005030000000
mA             -0.00125             0.00125         Delta : LC->LC FI 10V Range
2mA : -2.00
4504.11164                        Exp= -1.99999    Act= -2.00001
mA                                                  LC->LC MI 10V Range 2mA
4504.11165                                                -0.000017852005093
mA             -0.00125             0.00125         Delta : LC->LC MI 10V Range
2mA : -2.00
4504.11166                                                         -1.00001
mA              -1.0008            -0.99925         LC->LC FI 10V Range 2mA
4504.11167                                                -0.000006970000000
mA             -0.00075             0.00075         Delta : LC->LC FI 10V Range
2mA : -1.00
4504.11168                        Exp= -1.00001    Act= -0.99998
```

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mA                                                  LC->LC MI 10V Range 2mA
4504.11169                                                 0.000028173672975
mA          -0.00075          0.00075       Delta : LC->LC MI 10V Range
2mA : -1.00
4504.11170                                                          0.00002
mA          -0.00025          0.00025       LC->LC FI 10V Range 2mA
4504.11171                                                 0.000015602053900
mA          -0.00025          0.00025       Delta : LC->LC FI 10V Range
2mA : 0.00
4504.11172                          Exp= 0.00002     Act= 0.00001
mA                                                  LC->LC MI 10V Range 2mA
4504.11173                                               -0.000007178804464
mA          -0.00025          0.00025       Delta : LC->LC MI 10V Range
2mA : 0.00
4504.11174                                                          0.99999
mA           0.99925           1.0008       LC->LC FI 10V Range 2mA
4504.11175                                               -0.000007752000000
mA          -0.00075          0.00075       Delta : LC->LC FI 10V Range
2mA : 1.00
4504.11176                          Exp= 0.99999     Act= 1.00001
mA                                                  LC->LC MI 10V Range 2mA
4504.11177                                                 0.000014149026039
mA          -0.00075          0.00075       Delta : LC->LC MI 10V Range
2mA : 1.00
4504.11178                                                          2.00002
mA             1.9988            2.0013       LC->LC FI 10V Range 2mA
4504.11179                                                 0.000015930000000
mA          -0.00125          0.00125       Delta : LC->LC FI 10V Range
2mA : 2.00
4504.11180                          Exp= 2.00002     Act= 2.00000
mA                                                  LC->LC MI 10V Range 2mA
4504.11181                                               -0.000014009945418
mA          -0.00125          0.00125       Delta : LC->LC MI 10V Range
2mA : 2.00
4504.11182                        Chk RSense100A =   2.00615 mOhms
4504.11183                                                              0
status                                  0
4504.11184                                                       -29.99533
mA            -60.15              0.15       HC->HC FI 10V Range 100A
4504.11185                                                 0.004674425628163
```

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mA                -30.15              30.15       Delta : HC->HC FI 10V Range
100A : -30.00
4504.11186                              Exp= -29.99533   Act= -29.99995
mA                                              HC->HC MI 10V Range 100A
4504.11187                                            -0.004628826840708
mA                -30.15              30.15       Delta : HC->HC MI 10V Range
100A : -30.00
4504.11188                                                      -14.99231
mA               -45.075             15.075       HC->HC FI 10V Range 100A
4504.11189                                             0.007686065210292
mA               -30.075             30.075       Delta : HC->HC FI 10V Range
100A : -15.00
4504.11190                              Exp= -14.99231   Act= -14.99926
mA                                              HC->HC MI 10V Range 100A
4504.11191                                           -0.006944632550519
mA               -30.075             30.075       Delta : HC->HC MI 10V Range
100A : -15.00
4504.11192                                                       0.00000
mA                   -30                 30       HC->HC FI 10V Range 100A
4504.11193                                           0.000000000000000
mA                   -30                 30       Delta : HC->HC FI 10V Range
100A : 0.00
4504.11194                              Exp= 0.00000     Act= -0.00040
mA                                              HC->HC MI 10V Range 100A
4504.11195                                            -0.000397988393072
mA                   -30                 30       Delta : HC->HC MI 10V Range
100A : 0.00
4504.11196                                                      15.01303
mA               -15.075             45.075       HC->HC FI 10V Range 100A
4504.11197                                             0.013026027777949
mA               -30.075             30.075       Delta : HC->HC FI 10V Range
100A : 15.00
4504.11198                              Exp= 15.01303    Act= 14.99911
mA                                              HC->HC MI 10V Range 100A
4504.11199                                            -0.013916680123021
mA               -30.075             30.075       Delta : HC->HC MI 10V Range
100A : 15.00
4504.11200                                                      30.01325
mA                -0.15               60.15       HC->HC FI 10V Range 100A
4504.11201                                             0.013250425384232
```

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mA                -30.15              30.15       Delta : HC->HC FI 10V Range
100A : 30.00
4504.11202                                Exp= 30.01325    Act= 29.99987
mA                                                HC->HC MI 10V Range 100A
4504.11203                                                -0.013384561458590
mA                -30.15              30.15       Delta : HC->HC MI 10V Range
100A : 30.00
4504.11204                                                          -949.87186
mA                -957.75            -942.25       HC->HC FI 75V Range 10A
4504.11205                                                 0.128138000000035
mA                 -7.75               7.75       Delta : HC->HC FI 75V Range
10A : -950.00
4504.11206                                Exp= -949.87186  Act= -949.98010
mA                                                HC->HC MI 75V Range 10A
4504.11207                                                -0.108238307199031
mA                 -7.75               7.75       Delta : HC->HC MI 75V Range
10A : -950.00
4504.11208                                                          -475.07212
mA                -480.38            -469.63       HC->HC FI 75V Range 10A
4504.11209                                                -0.072121999999979
mA                -5.375              5.375       Delta : HC->HC FI 75V Range
10A : -475.00
4504.11210                                Exp= -475.07212  Act= -474.95662
mA                                                HC->HC MI 75V Range 10A
4504.11211                                                 0.115499610541917
mA                -5.375              5.375       Delta : HC->HC MI 75V Range
10A : -475.00
4504.11212                                                           -0.07687
mA                    -3                  3       HC->HC FI 75V Range 10A
4504.11213                                               -0.076866806200000
mA                    -3                  3       Delta : HC->HC FI 75V Range
10A : 0.00
4504.11214                                Exp= -0.07687    Act= -0.01373
mA                                                HC->HC MI 75V Range 10A
4504.11215                                                 0.063138496253400
mA                    -3                  3       Delta : HC->HC MI 75V Range
10A : 0.00
4504.11216                                                           475.19918
mA                469.63              480.38       HC->HC FI 75V Range 10A
4504.11217                                                0.199174999999968
```

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mA                -5.375                5.375       Delta : HC->HC FI 75V Range
10A : 475.00
4504.11218                                  Exp= 475.19917   Act= 474.99134
mA                                                  HC->HC MI 75V Range 10A
4504.11219                                                -0.207835327192015
mA                -5.375                5.375       Delta : HC->HC MI 75V Range
10A : 475.00
4504.11220                                                          950.12732
mA                942.25                957.75      HC->HC FI 75V Range 10A
4504.11221                                                 0.127315999999951
mA                 -7.75                 7.75       Delta : HC->HC FI 75V Range
10A : 950.00
4504.11222                                  Exp= 950.12732   Act= 950.07780
mA                                                  HC->HC MI 75V Range 10A
4504.11223                                                -0.049517052919327
mA                 -7.75                 7.75       Delta : HC->HC MI 75V Range
10A : 950.00
4504.11224                                                         -949.87186
mA              -954.62               -945.39       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11225                                                 0.128138000000035
mA                -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11226                                  Exp= -949.87186  Act= -949.98010
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11227                                                -0.108238307199031
mA                -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11228                                                         -475.07212
mA              -478.81               -471.19       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11229                                                -0.072121999999979
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11230                                  Exp= -475.07212  Act= -474.95662
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11231                                                 0.115499610541917
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
```

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Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11232                                                    -0.07687
mA                  -3                   3       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11233                                          -0.076866806200000
mA                  -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11234                              Exp= -0.07687    Act= -0.01373
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11235                                           0.063138496253400
mA                  -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11236                                                   475.19918
mA               471.19               478.81       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11237                                           0.199174999999968
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11238                              Exp= 475.19917   Act= 474.99134
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11239                                          -0.207835327192015
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11240                                                   950.12732
mA               945.39               954.62       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11241                                           0.127315999999951
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11242                              Exp= 950.12732   Act= 950.07780
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11243                                          -0.049517052919327
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11244                                                  -949.98362
mA              -953.15              -946.85       HC->HC FI 75V Range 4A
4504.11245                                           0.016379000000029
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mA                -3.15              3.15       Delta : HC->HC FI 75V Range
4A : -950.00
4504.11246                                 Exp= -949.98362  Act= -949.98306
mA                                              HC->HC MI 75V Range 4A
4504.11247                                             0.000563886240116
mA                -3.15              3.15       Delta : HC->HC MI 75V Range
4A : -950.00
4504.11248                                                    -475.04810
mA               -477.2             -472.8       HC->HC FI 75V Range 4A
4504.11249                                           -0.048100999999974
mA                 -2.2               2.2       Delta : HC->HC FI 75V Range
4A : -475.00
4504.11250                                 Exp= -475.04810  Act= -474.99763
mA                                              HC->HC MI 75V Range 4A
4504.11251                                             0.050466255981576
mA                 -2.2               2.2       Delta : HC->HC MI 75V Range
4A : -475.00
4504.11252                                                     -0.02008
mA                -1.25              1.25       HC->HC FI 75V Range 4A
4504.11253                                           -0.020083562400000
mA                -1.25              1.25       Delta : HC->HC FI 75V Range
4A : 0.00
4504.11254                                 Exp= -0.02008    Act= -0.01359
mA                                              HC->HC MI 75V Range 4A
4504.11255                                             0.006491869756760
mA                -1.25              1.25       Delta : HC->HC MI 75V Range
4A : 0.00
4504.11256                                                     475.08585
mA                472.8              477.2       HC->HC FI 75V Range 4A
4504.11257                                             0.085848999999996
mA                 -2.2               2.2       Delta : HC->HC FI 75V Range
4A : 475.00
4504.11258                                 Exp= 475.08585   Act= 474.99751
mA                                              HC->HC MI 75V Range 4A
4504.11259                                           -0.088336728559057
mA                 -2.2               2.2       Delta : HC->HC MI 75V Range
4A : 475.00
4504.11260                                                     950.06228
mA               946.85             953.15       HC->HC FI 75V Range 4A
4504.11261                                             0.062275000000000
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mA                -3.15              3.15       Delta : HC->HC FI 75V Range
4A : 950.00
4504.11262                                 Exp= 950.06227   Act= 949.99351
mA                                                HC->HC MI 75V Range 4A
4504.11263                                                -0.068765584676498
mA                -3.15              3.15       Delta : HC->HC MI 75V Range
4A : 950.00
4504.11264                                                      -949.93690
mA              -957.75            -942.25       HC->HC FI 30V Range 10A
4504.11265                                                 0.063096999999971
mA                -7.75              7.75       Delta : HC->HC FI 30V Range
10A : -950.00
4504.11266                                 Exp= -949.93690  Act= -950.04363
mA                                                HC->HC MI 30V Range 10A
4504.11267                                               -0.106723787192891
mA                -7.75              7.75       Delta : HC->HC MI 30V Range
10A : -950.00
4504.11268                                                      -475.10700
mA              -480.38            -469.63       HC->HC FI 30V Range 10A
4504.11269                                               -0.106995999999981
mA               -5.375             5.375       Delta : HC->HC FI 30V Range
10A : -475.00
4504.11270                                 Exp= -475.10700  Act= -475.01224
mA                                                HC->HC MI 30V Range 10A
4504.11271                                                 0.094754315537500
mA               -5.375             5.375       Delta : HC->HC MI 30V Range
10A : -475.00
4504.11272                                                       -0.05258
mA                  -3                 3       HC->HC FI 30V Range 10A
4504.11273                                              -0.052579350400000
mA                  -3                 3       Delta : HC->HC FI 30V Range
10A : 0.00
4504.11274                                 Exp= -0.05258    Act= -0.01154
mA                                                HC->HC MI 30V Range 10A
4504.11275                                                 0.041039930011638
mA                  -3                 3       Delta : HC->HC MI 30V Range
10A : 0.00
4504.11276                                                       475.13587
mA                469.63             480.38       HC->HC FI 30V Range 10A
4504.11277                                               0.135869000000014
```

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mA              -5.375              5.375       Delta : HC->HC FI 30V Range
10A : 475.00
4504.11278                                Exp= 475.13587   Act= 474.91423
mA                                                HC->HC MI 30V Range 10A
4504.11279                                                -0.221636878085974
mA              -5.375              5.375       Delta : HC->HC MI 30V Range
10A : 475.00
4504.11280                                                          950.04966
mA              942.25              957.75      HC->HC FI 30V Range 10A
4504.11281                                                 0.049663000000010
mA               -7.75               7.75       Delta : HC->HC FI 30V Range
10A : 950.00
4504.11282                                Exp= 950.04966   Act= 949.99487
mA                                                HC->HC MI 30V Range 10A
4504.11283                                                -0.054791744880390
mA               -7.75               7.75       Delta : HC->HC MI 30V Range
10A : 950.00
4504.11284                                                          -949.93690
mA            -954.62             -945.39       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11285                                                 0.063096999999971
mA               -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11286                                Exp= -949.93690  Act= -950.04363
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11287                                                -0.106723787192891
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11288                                                          -475.10700
mA            -478.81             -471.19       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11289                                                -0.106995999999981
mA              -3.8075             3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11290                                Exp= -475.10700  Act= -475.01224
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11291                                                 0.094754315537500
mA              -3.8075             3.8075       Delta : HC->HC V/I Mode
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Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11292                                                    -0.05258
mA                  -3                   3       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11293                                          -0.052579350400000
mA                  -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11294                              Exp= -0.05258    Act= -0.01154
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11295                                           0.041039930011638
mA                  -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11296                                                   475.13587
mA               471.19               478.81       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11297                                           0.135869000000014
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11298                              Exp= 475.13587   Act= 474.91423
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11299                                          -0.221636878085974
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11300                                                   950.04966
mA               945.39               954.62       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11301                                           0.049663000000010
mA              -4.615                4.615        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11302                              Exp= 950.04966   Act= 949.99487
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11303                                          -0.054791744880390
mA              -4.615                4.615        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11304                                                  -949.96142
mA              -953.15              -946.85       HC->HC FI 30V Range 4A
4504.11305                                           0.038575999999921
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mA                -3.15              3.15       Delta : HC->HC FI 30V Range
4A : -950.00
4504.11306                                 Exp= -949.96142  Act= -949.98377
mA                                              HC->HC MI 30V Range 4A
4504.11307                                                -0.022348158314685
mA                -3.15              3.15       Delta : HC->HC MI 30V Range
4A : -950.00
4504.11308                                                      -475.03110
mA               -477.2             -472.8       HC->HC FI 30V Range 4A
4504.11309                                                -0.031095999999991
mA                -2.2               2.2       Delta : HC->HC FI 30V Range
4A : -475.00
4504.11310                                 Exp= -475.03110  Act= -474.99292
mA                                              HC->HC MI 30V Range 4A
4504.11311                                                 0.038172303916383
mA                -2.2               2.2       Delta : HC->HC MI 30V Range
4A : -475.00
4504.11312                                                       -0.01022
mA                -1.25              1.25       HC->HC FI 30V Range 4A
4504.11313                                               -0.010218222200000
mA                -1.25              1.25       Delta : HC->HC FI 30V Range
4A : 0.00
4504.11314                                 Exp= -0.01022    Act= 0.00285
mA                                              HC->HC MI 30V Range 4A
4504.11315                                                 0.013069107394639
mA                -1.25              1.25       Delta : HC->HC MI 30V Range
4A : 0.00
4504.11316                                                       475.06052
mA                472.8              477.2       HC->HC FI 30V Range 4A
4504.11317                                                 0.060522999999989
mA                -2.2               2.2       Delta : HC->HC FI 30V Range
4A : 475.00
4504.11318                                 Exp= 475.06052   Act= 474.97853
mA                                              HC->HC MI 30V Range 4A
4504.11319                                                -0.081996099238893
mA                -2.2               2.2       Delta : HC->HC MI 30V Range
4A : 475.00
4504.11320                                                       950.02509
mA               946.85             953.15       HC->HC FI 30V Range 4A
4504.11321                                                 0.025093999999967
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mA                -3.15              3.15       Delta : HC->HC FI 30V Range
4A : 950.00
4504.11322                                 Exp= 950.02509   Act= 949.97614
mA                                             HC->HC MI 30V Range 4A
4504.11323                                           -0.048953433516545
mA                -3.15              3.15       Delta : HC->HC MI 30V Range
4A : 950.00
4504.11324                                                 -950.25581
mA              -957.75            -942.25       HC->HC FI 10V Range 10A
4504.11325                                           -0.255810999999994
mA                -7.75              7.75       Delta : HC->HC FI 10V Range
10A : -950.00
4504.11326                                 Exp= -950.25581  Act= -949.98760
mA                                             HC->HC MI 10V Range 10A
4504.11327                                            0.268207835116300
mA                -7.75              7.75       Delta : HC->HC MI 10V Range
10A : -950.00
4504.11328                                                 -474.53291
mA              -480.38            -469.63       HC->HC FI 10V Range 10A
4504.11329                                           0.467086000000052
mA               -5.375             5.375       Delta : HC->HC FI 10V Range
10A : -475.00
4504.11330                                 Exp= -474.53291  Act= -475.00052
mA                                             HC->HC MI 10V Range 10A
4504.11331                                           -0.467604330332961
mA               -5.375             5.375       Delta : HC->HC MI 10V Range
10A : -475.00
4504.11332                                                   -0.00298
mA                  -3                 3       HC->HC FI 10V Range 10A
4504.11333                                           -0.002976479070000
mA                  -3                 3       Delta : HC->HC FI 10V Range
10A : 0.00
4504.11334                                 Exp= -0.00298    Act= -0.02570
mA                                             HC->HC MI 10V Range 10A
4504.11335                                           -0.022719590505133
mA                  -3                 3       Delta : HC->HC MI 10V Range
10A : 0.00
4504.11336                                                   474.72759
mA                469.63             480.38       HC->HC FI 10V Range 10A
4504.11337                                           -0.272410999999977
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mA                -5.375                5.375       Delta : HC->HC FI 10V Range
10A : 475.00
4504.11338                                  Exp= 474.72759   Act= 474.94751
mA                                                  HC->HC MI 10V Range 10A
4504.11339                                                  0.219923694630836
mA                -5.375                5.375       Delta : HC->HC MI 10V Range
10A : 475.00
4504.11340                                                        950.31298
mA                942.25                957.75      HC->HC FI 10V Range 10A
4504.11341                                                  0.312983999999915
mA                 -7.75                 7.75       Delta : HC->HC FI 10V Range
10A : 950.00
4504.11342                                  Exp= 950.31298   Act= 949.97606
mA                                                  HC->HC MI 10V Range 10A
4504.11343                                                 -0.336919609438951
mA                 -7.75                 7.75       Delta : HC->HC MI 10V Range
10A : 950.00
4504.11344                                                       -950.25581
mA              -954.62               -945.39       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11345                                                 -0.255810999999994
mA                -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11346                                  Exp= -950.25581  Act= -949.98760
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11347                                                  0.268207835116300
mA                -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11348                                                       -474.53291
mA              -478.81               -471.19       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11349                                                  0.467086000000052
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11350                                  Exp= -474.53291  Act= -475.00052
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11351                                                 -0.467604330332961
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
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Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11352                                                    -0.00298
mA                  -3                   3       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11353                                          -0.002976479070000
mA                  -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11354                              Exp= -0.00298    Act= -0.02570
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11355                                          -0.022719590505133
mA                  -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11356                                                   474.72759
mA               471.19               478.81       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11357                                          -0.272410999999977
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11358                              Exp= 474.72759   Act= 474.94751
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11359                                           0.219923694630836
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11360                                                   950.31298
mA               945.39               954.62       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11361                                           0.312983999999915
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11362                              Exp= 950.31298   Act= 949.97606
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11363                                          -0.336919609438951
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11364                                                  -950.00464
mA              -953.15              -946.85       HC->HC FI 10V Range 4A
4504.11365                                          -0.004637000000002
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mA                -3.15              3.15       Delta : HC->HC FI 10V Range
4A : -950.00
4504.11366                                 Exp= -950.00464  Act= -950.00998
mA                                              HC->HC MI 10V Range 4A
4504.11367                                            -0.005341465376546
mA                -3.15              3.15       Delta : HC->HC MI 10V Range
4A : -950.00
4504.11368                                                    -474.98069
mA               -477.2             -472.8      HC->HC FI 10V Range 4A
4504.11369                                             0.019306000000029
mA                -2.2               2.2       Delta : HC->HC FI 10V Range
4A : -475.00
4504.11370                                 Exp= -474.98069  Act= -475.00202
mA                                              HC->HC MI 10V Range 4A
4504.11371                                           -0.021325703095897
mA                -2.2               2.2       Delta : HC->HC MI 10V Range
4A : -475.00
4504.11372                                                     -0.02260
mA                -1.25              1.25       HC->HC FI 10V Range 4A
4504.11373                                           -0.022599761700000
mA                -1.25              1.25       Delta : HC->HC FI 10V Range
4A : 0.00
4504.11374                                 Exp= -0.02260    Act= -0.02718
mA                                              HC->HC MI 10V Range 4A
4504.11375                                           -0.004577523045703
mA                -1.25              1.25       Delta : HC->HC MI 10V Range
4A : 0.00
4504.11376                                                     475.02950
mA                472.8              477.2       HC->HC FI 10V Range 4A
4504.11377                                             0.029497999999990
mA                -2.2               2.2       Delta : HC->HC FI 10V Range
4A : 475.00
4504.11378                                 Exp= 475.02950   Act= 474.99938
mA                                              HC->HC MI 10V Range 4A
4504.11379                                           -0.030121432519763
mA                -2.2               2.2       Delta : HC->HC MI 10V Range
4A : 475.00
4504.11380                                                     950.08872
mA               946.85             953.15       HC->HC FI 10V Range 4A
4504.11381                                             0.088715999999977
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mA                -3.15                3.15       Delta : HC->HC FI 10V Range
4A : 950.00
4504.11382                                 Exp= 950.08872   Act= 950.00852
mA                                                HC->HC MI 10V Range 4A
4504.11383                                              -0.080197943669987
mA                -3.15                3.15       Delta : HC->HC MI 10V Range
4A : 950.00
4505.10000                                              HC relays verified
DIB HC Relays Check
4505.10001                                                              0
status                                          0       DIB HC Relays Check
4505.10002                                 Exp= -9.49989    Act= -9.49984
V                                                 LC->LC MV PGA 100V Range 10X
4505.10003                                               0.000055803504685
V            -0.008375             0.008375       Delta : LC->LC MV PGA 100V
Range 10X : -9.50
4505.10004                                 Exp= 0.00047     Act= 0.00052
V                                                 LC->LC MV PGA 100V Range 10X
4505.10005                                               0.000048912161051
V               -0.006                0.006       Delta : LC->LC MV PGA 100V
Range 10X : 0.00
4505.10006                                 Exp= 9.50003     Act= 9.50010
V                                                 LC->LC MV PGA 100V Range 10X
4505.10007                                               0.000071353198372
V            -0.008375             0.008375       Delta : LC->LC MV PGA 100V
Range 10X : 9.50
4505.10008                                 Exp= -0.94991    Act= -0.94988
V                                                 LC->LC MV PGA 100V Range 100X
4505.10009                                               0.000036113993389
V          -0.0062375            0.0062375       Delta : LC->LC MV PGA 100V
Range 100X : -0.95
4505.10010                                 Exp= 0.00051     Act= 0.00050
V                                                 LC->LC MV PGA 100V Range 100X
4505.10011                                              -0.000013271485826
V               -0.006                0.006       Delta : LC->LC MV PGA 100V
Range 100X : 0.00
4505.10012                                 Exp= 0.95025     Act= 0.95030
V                                                 LC->LC MV PGA 100V Range 100X
4505.10013                                               0.000042695725197
V          -0.0062375            0.0062375       Delta : LC->LC MV PGA 100V
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Range 100X : 0.95
4505.10014                              Exp= -2.84981    Act= -2.84981
V                                              LC->LC MV PGA 30V Range 10X
4505.10015                                              0.000004466263553
V          -0.0027125            0.0027125       Delta : LC->LC MV PGA 30V Range
10X : -2.85
4505.10016                              Exp= 0.00013     Act= 0.00014
V                                              LC->LC MV PGA 30V Range 10X
4505.10017                                              0.000001934313228
V               -0.002                0.002       Delta : LC->LC MV PGA 30V Range
10X : 0.00
4505.10018                              Exp= 2.85009     Act= 2.85009
V                                              LC->LC MV PGA 30V Range 10X
4505.10019                                             -0.000000769960810
V          -0.0027125            0.0027125       Delta : LC->LC MV PGA 30V Range
10X : 2.85
4505.10020                              Exp= -0.28483    Act= -0.28483
V                                              LC->LC MV PGA 30V Range 100X
4505.10021                                             -0.000000611923005
V          -0.00207125           0.00207125      Delta : LC->LC MV PGA 30V Range
100X : -0.29
4505.10022                              Exp= 0.00014     Act= 0.00015
V                                              LC->LC MV PGA 30V Range 100X
4505.10023                                              0.000004506785497
V               -0.002                0.002       Delta : LC->LC MV PGA 30V Range
100X : 0.00
4505.10024                              Exp= 0.28513     Act= 0.28512
V                                              LC->LC MV PGA 30V Range 100X
4505.10025                                             -0.000005412412698
V          -0.00207125           0.00207125      Delta : LC->LC MV PGA 30V Range
100X : 0.29
4505.10026                              Exp= -0.94997    Act= -0.94998
V                                              LC->LC MV PGA 10V Range 10X
4505.10027                                             -0.000004673846267
V          -0.0008375            0.0008375       Delta : LC->LC MV PGA 10V Range
10X : -0.95
4505.10028                              Exp= -0.00001    Act= -0.00001
V                                              LC->LC MV PGA 10V Range 10X
4505.10029                                             -0.000001696514836
V              -0.0006                0.0006       Delta : LC->LC MV PGA 10V Range
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10X : 0.00
4505.10030                              Exp= 0.95004      Act= 0.95004
V                                               LC->LC MV PGA 10V Range 10X
4505.10031                                              0.000006673078991
V           -0.0008375              0.0008375       Delta : LC->LC MV PGA 10V Range
10X : 0.95
4505.10032                              Exp= -0.09499     Act= -0.09498
V                                               LC->LC MV PGA 10V Range 100X
4505.10033                                              0.000002557813044
V          -0.00062375             0.00062375       Delta : LC->LC MV PGA 10V Range
100X : -0.10
4505.10034                              Exp= -0.00001     Act= -0.00000
V                                               LC->LC MV PGA 10V Range 100X
4505.10035                                              0.000005239965171
V               -0.0006                 0.0006       Delta : LC->LC MV PGA 10V Range
100X : 0.00
4505.10036                              Exp= 0.09498      Act= 0.09499
V                                               LC->LC MV PGA 10V Range 100X
4505.10037                                              0.000007790850299
V          -0.00062375             0.00062375       Delta : LC->LC MV PGA 10V Range
100X : 0.10
4505.10038                              Exp= -6.99995     Act= -6.99982
V                                               HC->HC MV PGA 75V Range 10X
4505.10039                                              0.000132506489401
V             -0.00775                0.00775       Delta : HC->HC MV PGA 75V Range
10X : -7.00
4505.10040                              Exp= 0.00039      Act= 0.00047
V                                               HC->HC MV PGA 75V Range 10X
4505.10041                                              0.000081268086015
V              -0.006                   0.006       Delta : HC->HC MV PGA 75V Range
10X : 0.00
4505.10042                              Exp= 6.99998      Act= 7.00003
V                                               HC->HC MV PGA 75V Range 10X
4505.10043                                              0.000053369169597
V             -0.00775                0.00775       Delta : HC->HC MV PGA 75V Range
10X : 7.00
4505.10044                              Exp= -0.69994     Act= -0.69995
V                                               HC->HC MV PGA 75V Range 100X
4505.10045                                             -0.000016292939461
V            -0.003175               0.003175       Delta : HC->HC MV PGA 75V Range
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100X : -0.70
4505.10046 Exp= 0.00050 Act= 0.00053
V HC->HC MV PGA 75V Range 100X
4505.10047 0.000027037790251
V -0.003 0.003 Delta : HC->HC MV PGA 75V Range
100X : 0.00
4505.10048 Exp= 0.70028 Act= 0.70034
V HC->HC MV PGA 75V Range 100X
4505.10049 0.000058425108909
V -0.003175 0.003175 Delta : HC->HC MV PGA 75V Range
100X : 0.70
4505.10050 Exp= -2.79986 Act= -2.79985
V HC->HC MV PGA 30V Range 10X
4505.10051 0.000004513369416
V -0.0027 0.0027 Delta : HC->HC MV PGA 30V Range
10X : -2.80
4505.10052 Exp= 0.00009 Act= 0.00010
V HC->HC MV PGA 30V Range 10X
4505.10053 0.000008955581922
V -0.002 0.002 Delta : HC->HC MV PGA 30V Range
10X : 0.00
4505.10054 Exp= 2.80005 Act= 2.80007
V HC->HC MV PGA 30V Range 10X
4505.10055 0.000019463350656
V -0.0027 0.0027 Delta : HC->HC MV PGA 30V Range
10X : 2.80
4505.10056 Exp= -0.28005 Act= -0.28002
V HC->HC MV PGA 30V Range 100X
4505.10057 0.000020992002221
V -0.00107 0.00107 Delta : HC->HC MV PGA 30V Range
100X : -0.28
4505.10058 Exp= 0.00010 Act= 0.00013
V HC->HC MV PGA 30V Range 100X
4505.10059 0.000024153376790
V -0.001 0.001 Delta : HC->HC MV PGA 30V Range
100X : 0.00
4505.10060 Exp= 0.28000 Act= 0.28002
V HC->HC MV PGA 30V Range 100X
4505.10061 0.000016649474487
V -0.00107 0.00107 Delta : HC->HC MV PGA 30V Range

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100X : 0.28
4505.10062                                  Exp= -0.85000    Act= -0.85000
V                                              HC->HC MV PGA 10V Range 10X
4505.10063                                                  0.000004028295577
V           -0.0008125            0.0008125       Delta : HC->HC MV PGA 10V Range
10X : -0.85
4505.10064                                  Exp= 0.00003     Act= 0.00003
V                                              HC->HC MV PGA 10V Range 10X
4505.10065                                                  0.000003132784166
V              -0.0006               0.0006       Delta : HC->HC MV PGA 10V Range
10X : 0.00
4505.10066                                  Exp= 0.85006     Act= 0.85006
V                                              HC->HC MV PGA 10V Range 10X
4505.10067                                                  0.000003149646678
V           -0.0008125            0.0008125       Delta : HC->HC MV PGA 10V Range
10X : 0.85
4505.10068                                  Exp= -0.08496    Act= -0.08496
V                                              HC->HC MV PGA 10V Range 100X
4505.10069                                                  0.000003867049917
V          -0.00032125           0.00032125       Delta : HC->HC MV PGA 10V Range
100X : -0.09
4505.10070                                  Exp= 0.00002     Act= 0.00003
V                                              HC->HC MV PGA 10V Range 100X
4505.10071                                                  0.000010249618039
V              -0.0003               0.0003       Delta : HC->HC MV PGA 10V Range
100X : 0.00
4505.10072                                  Exp= 0.08503     Act= 0.08503
V                                              HC->HC MV PGA 10V Range 100X
4505.10073                                                  0.000005476126249
V          -0.00032125           0.00032125       Delta : HC->HC MV PGA 10V Range
100X : 0.09
4506.10000                                             HC relays verified
DIB HC Relays Check
4506.10001                                                                  0
status                                           0       DIB HC Relays Check
4506.10002                                  Exp= -0.79995    Act= -0.79997
V                                              MV Pedestal LC 0V Pedestal
4506.10003                                                 -0.000014508674216
V             -0.00033              0.00033       Delta : MV Pedestal LC 0V
Pedestal : -0.80
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4506.10004                                  Exp= -0.39993    Act= -0.39989
V                                               MV Pedestal LC 0V Pedestal
4506.10005                                                  0.000034582231396
V             -0.00029          0.00029       Delta : MV Pedestal LC 0V
Pedestal : -0.40
4506.10006                                  Exp= 0.00014     Act= 0.00014
V                                               MV Pedestal LC 0V Pedestal
4506.10007                                                 -0.000002053195718
V             -0.00025          0.00025       Delta : MV Pedestal LC 0V
Pedestal : 0.00
4506.10008                                  Exp= 0.40016     Act= 0.40015
V                                               MV Pedestal LC 0V Pedestal
4506.10009                                                 -0.000003427402023
V             -0.00029          0.00029       Delta : MV Pedestal LC 0V
Pedestal : 0.40
4506.10010                                  Exp= 0.80027     Act= 0.80028
V                                               MV Pedestal LC 0V Pedestal
4506.10011                                                  0.000008770512167
V             -0.00033          0.00033       Delta : MV Pedestal LC 0V
Pedestal : 0.80
4506.10012                                  Exp= 0.30024     Act= 0.30024
V                                               MV Pedestal LC 1V Pedestal
4506.10013                                                 -0.000005439321613
V             -0.00028          0.00028       Delta : MV Pedestal LC 1V
Pedestal : 0.30
4506.10014                                  Exp= 0.60025     Act= 0.60026
V                                               MV Pedestal LC 1V Pedestal
4506.10015                                                  0.000010936753180
V             -0.00031          0.00031       Delta : MV Pedestal LC 1V
Pedestal : 0.60
4506.10016                                  Exp= 1.00026     Act= 1.00028
V                                               MV Pedestal LC 1V Pedestal
4506.10017                                                  0.000015765346465
V             -0.00035          0.00035       Delta : MV Pedestal LC 1V
Pedestal : 1.00
4506.10018                                  Exp= 1.30028     Act= 1.30029
V                                               MV Pedestal LC 1V Pedestal
4506.10019                                                  0.000007396412416
V             -0.00038          0.00038       Delta : MV Pedestal LC 1V
Pedestal : 1.30
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4506.10020                                  Exp= 1.70037     Act= 1.70037
V                                                MV Pedestal LC 1V Pedestal
4506.10021                                                0.000002905457268
V             -0.00042          0.00042      Delta : MV Pedestal LC 1V
Pedestal : 1.70
4506.10022                                  Exp= 2.40038     Act= 2.40038
V                                                MV Pedestal LC 3V Pedestal
4506.10023                                                0.000005767229190
V             -0.00049          0.00049      Delta : MV Pedestal LC 3V
Pedestal : 2.40
4506.10024                                  Exp= 2.70042     Act= 2.70042
V                                                MV Pedestal LC 3V Pedestal
4506.10025                                                0.000008632947408
V             -0.00052          0.00052      Delta : MV Pedestal LC 3V
Pedestal : 2.70
4506.10026                                  Exp= 3.00040     Act= 3.00040
V                                                MV Pedestal LC 3V Pedestal
4506.10027                                               -0.000003669854472
V             -0.00055          0.00055      Delta : MV Pedestal LC 3V
Pedestal : 3.00
4506.10028                                  Exp= 3.30041     Act= 3.30039
V                                                MV Pedestal LC 3V Pedestal
4506.10029                                               -0.000014443264110
V             -0.00058          0.00058      Delta : MV Pedestal LC 3V
Pedestal : 3.30
4506.10030                                  Exp= 3.60044     Act= 3.60043
V                                                MV Pedestal LC 3V Pedestal
4506.10031                                               -0.000016921615139
V             -0.00061          0.00061      Delta : MV Pedestal LC 3V
Pedestal : 3.60
4506.10032                                  Exp= 4.30044     Act= 4.30044
V                                                MV Pedestal LC 5V Pedestal
4506.10033                                                0.000006317642196
V             -0.00068          0.00068      Delta : MV Pedestal LC 5V
Pedestal : 4.30
4506.10034                                  Exp= 4.60045     Act= 4.60044
V                                                MV Pedestal LC 5V Pedestal
4506.10035                                               -0.000012815564245
V             -0.00071          0.00071      Delta : MV Pedestal LC 5V
Pedestal : 4.60
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4506.10036                              Exp= 5.00046     Act= 5.00044
V                                          MV Pedestal LC 5V Pedestal
4506.10037                                        -0.000019721412889
V             -0.00075          0.00075       Delta : MV Pedestal LC 5V
Pedestal : 5.00
4506.10038                              Exp= 5.30046     Act= 5.30045
V                                          MV Pedestal LC 5V Pedestal
4506.10039                                        -0.000013622544651
V             -0.00078          0.00078       Delta : MV Pedestal LC 5V
Pedestal : 5.30
4506.10040                              Exp= 5.70047     Act= 5.70048
V                                          MV Pedestal LC 5V Pedestal
4506.10041                                         0.000004730940602
V             -0.00082          0.00082       Delta : MV Pedestal LC 5V
Pedestal : 5.70
4507.11000                                      HC relays verified
DIB HC Relays Check
4507.11001                                                          0
status                                     0       DIB HC Relays Check
4507.11002                              Exp= -47.48920   Act= -47.48855
mA                                         LC->LC MI PGA 100V Range 500mA
10X
4507.11003                                         0.000651068892758
mA             -0.08375          0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : -47.50
4507.11004                              Exp= 0.01009     Act= 0.00977
mA                                         LC->LC MI PGA 100V Range 500mA
10X
4507.11005                                        -0.000322096464430
mA               -0.06              0.06       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 0.00
4507.11006                                Exp= 47.50944    Act= 47.50924
mA                                         LC->LC MI PGA 100V Range 500mA
10X
4507.11007                                        -0.000200098231943
mA             -0.08375           0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 47.50
4507.11008                                Exp= -4.73962    Act= -4.74042
mA                                         LC->LC MI PGA 100V Range 500mA
100X
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4507.11009                                                  -0.000798381522001
mA            -0.062375          0.062375       Delta : LC->LC MI PGA 100V
Range 500mA 100X : -4.75
4507.11010                        Exp= 0.01056     Act= 0.00963
mA                                          LC->LC MI PGA 100V Range 500mA
100X
4507.11011                                          -0.000921459733754
mA                -0.06               0.06       Delta : LC->LC MI PGA 100V
Range 500mA 100X : 0.00
4507.11012                        Exp= 4.76125     Act= 4.76010
mA                                          LC->LC MI PGA 100V Range 500mA
100X
4507.11013                                          -0.001153607993785
mA            -0.062375          0.062375       Delta : LC->LC MI PGA 100V
Range 500mA 100X : 4.75
4507.11014                        Exp= -94.99132   Act= -94.99165
mA                                          LC->LC MI PGA 30V Range 1A 10X
4507.11015                                          -0.000332305484889
mA              -0.1075             0.1075       Delta : LC->LC MI PGA 30V
Range 1A 10X : -95.00
4507.11016                        Exp= 0.00967     Act= 0.00919
mA                                          LC->LC MI PGA 30V Range 1A 10X
4507.11017                                          -0.000480011071447
mA                -0.06               0.06       Delta : LC->LC MI PGA 30V
Range 1A 10X : 0.00
4507.11018                        Exp= 95.00410    Act= 95.00257
mA                                          LC->LC MI PGA 30V Range 1A 10X
4507.11019                                          -0.001533353762497
mA              -0.1075             0.1075       Delta : LC->LC MI PGA 30V
Range 1A 10X : 95.00
4507.11020                        Exp= -9.48945    Act= -9.49008
mA                                          LC->LC MI PGA 30V Range 1A
100X
4507.11021                                          -0.000628987555766
mA            -0.06475            0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : -9.50
4507.11022                        Exp= 0.01014     Act= 0.00813
mA                                          LC->LC MI PGA 30V Range 1A
100X
4507.11023                                          -0.002009702173039
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mA                -0.06                0.06       Delta : LC->LC MI PGA 30V
Range 1A 100X : 0.00
4507.11024                                 Exp= 9.50990     Act= 9.50696
mA                                                 LC->LC MI PGA 30V Range 1A
100X
4507.11025                                                  -0.002943944593932
mA             -0.06475             0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : 9.50
4507.11026                                 Exp= -9.49940    Act= -9.49954
mA                                                 LC->LC MI PGA 30V Range 100mA
10X
4507.11027                                                  -0.000141087044208
mA             -0.01075             0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : -9.50
4507.11028                                 Exp= 0.00025     Act= 0.00003
mA                                                 LC->LC MI PGA 30V Range 100mA
10X
4507.11029                                                  -0.000222163268480
mA               -0.006               0.006       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 0.00
4507.11030                                 Exp= 9.50079     Act= 9.50046
mA                                                 LC->LC MI PGA 30V Range 100mA
10X
4507.11031                                                  -0.000323435246763
mA             -0.01075             0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 9.50
4507.11032                                 Exp= -948.98298  Act= -949.38262
uA                                                 LC->LC MI PGA 30V Range 100mA
100X
4507.11033                                                  -0.399638666966894
uA               -6.475               6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : -950.00
4507.11034                                 Exp= 0.38969     Act= -0.01483
uA                                                 LC->LC MI PGA 30V Range 100mA
100X
4507.11035                                                  -0.404523840065024
uA                  -6                    6       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 0.00
4507.11036                                 Exp= 950.60802   Act= 950.17735
uA                                                 LC->LC MI PGA 30V Range 100mA
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100X
4507.11037                                                    -0.430678644510749
uA                -6.475          6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 950.00
4507.11038                          Exp= -949.93360  Act= -949.96301
uA                                        LC->LC MI PGA 30V Range 10mA
10X
4507.11039                                                    -0.029405967642333
uA                -1.075          1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : -950.00
4507.11040                          Exp= 0.05427     Act= 0.02842
uA                                        LC->LC MI PGA 30V Range 10mA
10X
4507.11041                                                    -0.025848509493171
uA                  -0.6            0.6       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 0.00
4507.11042                          Exp= 950.06076   Act= 950.02428
uA                                        LC->LC MI PGA 30V Range 10mA
10X
4507.11043                                                    -0.036478361568129
uA                -1.075          1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 950.00
4507.11044                          Exp= -189.99013  Act= -189.99358
mA                                        LC->LC MI PGA 10V Range 2A 10X
4507.11045                                                          -0.003453018281590
mA                 -0.22            0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : -190.00
4507.11046                          Exp= -0.00453    Act= -0.00504
mA                                        LC->LC MI PGA 10V Range 2A 10X
4507.11047                                                          -0.000516363547704
mA                -0.125          0.125       Delta : LC->LC MI PGA 10V
Range 2A 10X : 0.00
4507.11048                          Exp= 189.99940   Act= 189.99670
mA                                        LC->LC MI PGA 10V Range 2A 10X
4507.11049                                                          -0.002704134112491
mA                 -0.22            0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : 190.00
4507.11050                          Exp= -18.99293   Act= -18.99688
mA                                        LC->LC MI PGA 10V Range 2A
100X
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4507.11051                                                  -0.003951550112401
mA              -0.1345              0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : -19.00
4507.11052                      Exp= 0.00503     Act= 0.00091
mA                                      LC->LC MI PGA 10V Range 2A
100X
4507.11053                                                  -0.004120697189366
mA               -0.125               0.125       Delta : LC->LC MI PGA 10V
Range 2A 100X : 0.00
4507.11054                      Exp= 19.00299    Act= 19.00032
mA                                      LC->LC MI PGA 10V Range 2A
100X
4507.11055                                                  -0.002669754789778
mA              -0.1345              0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : 19.00
4507.11056                      Exp= -18.99106   Act= -18.99119
mA                                      LC->LC MI PGA 10V Range 200mA
10X
4507.11057                                                  -0.000122641098166
mA              -0.0215              0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : -19.00
4507.11058                      Exp= 0.00930     Act= 0.00937
mA                                      LC->LC MI PGA 10V Range 200mA
10X
4507.11059                                                   0.000063917061535
mA               -0.012               0.012       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 0.00
4507.11060                      Exp= 19.00855    Act= 19.00800
mA                                      LC->LC MI PGA 10V Range 200mA
10X
4507.11061                                                  -0.000545732981344
mA              -0.0215              0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 19.00
4507.11062                      Exp= -1.89028    Act= -1.89065
mA                                      LC->LC MI PGA 10V Range 200mA
100X
4507.11063                                                  -0.000374438501964
mA            -0.01295             0.01295       Delta : LC->LC MI PGA 10V
Range 200mA 100X : -1.90
4507.11064                      Exp= 0.00994     Act= 0.00955
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mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11065                                                  -0.000397846572234
mA              -0.012              0.012       Delta : LC->LC MI PGA 10V
Range 200mA 100X : 0.00
4507.11066                          Exp= 1.90998     Act= 1.90959
mA                                              LC->LC MI PGA 10V Range 200mA
100X
4507.11067                                                  -0.000386729371378
mA             -0.01295             0.01295     Delta : LC->LC MI PGA 10V
Range 200mA 100X : 1.90
4507.11068                          Exp= -1.89939    Act= -1.89943
mA                                              LC->LC MI PGA 10V Range 20mA
10X
4507.11069                                                  -0.000036142452885
mA             -0.00215             0.00215     Delta : LC->LC MI PGA 10V
Range 20mA 10X : -1.90
4507.11070                          Exp= 0.00057     Act= 0.00055
mA                                              LC->LC MI PGA 10V Range 20mA
10X
4507.11071                                                  -0.000024155263071
mA              -0.0012              0.0012     Delta : LC->LC MI PGA 10V
Range 20mA 10X : 0.00
4507.11072                          Exp= 1.90055     Act= 1.90054
mA                                              LC->LC MI PGA 10V Range 20mA
10X
4507.11073                                                  -0.000005173831177
mA             -0.00215             0.00215     Delta : LC->LC MI PGA 10V
Range 20mA 10X : 1.90
4507.11074                          Exp= -668.37481  Act= -668.80508
mA                                              HC->HC MI PGA 75V Range 100A
10X
4507.11075                                                  -0.430277152656686
mA              -18.325              18.325     Delta : HC->HC MI PGA 75V
Range 100A 10X : -665.00
4507.11076                          Exp= -3.04644    Act= -3.46650
mA                                              HC->HC MI PGA 75V Range 100A
10X
4507.11077                                                  -0.420054814835494
mA                 -15                  15      Delta : HC->HC MI PGA 75V
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Range 100A 10X : 0.00
4507.11078                                  Exp= 661.76534   Act= 661.22842
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11079                                                  -0.536918747205277
mA              -18.325              18.325       Delta : HC->HC MI PGA 75V
Range 100A 10X : 665.00
4507.11080                                  Exp= -668.34003  Act= -668.82108
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11081                                                  -0.481053894013485
mA              -10.825              10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : -665.00
4507.11082                                  Exp= -2.90797    Act= -3.52442
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11083                                                  -0.616443296878588
mA                -7.5                 7.5       Delta : HC->HC MI PGA 75V
Range 100A 100X : 0.00
4507.11084                                  Exp= 661.87605   Act= 661.11652
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11085                                                  -0.759534082010191
mA              -10.825              10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : 665.00
4507.11086                                  Exp= -665.29494  Act= -665.35455
mA                                                  HC->HC MI PGA 75V Range 10A
10X
4507.11087                                                  -0.059602698266644
mA               -4.825               4.825       Delta : HC->HC MI PGA 75V
Range 10A 10X : -665.00
4507.11088                                  Exp= -0.08404    Act= -0.05684
mA                                                  HC->HC MI PGA 75V Range 10A
10X
4507.11089                                                   0.027196909182778
mA                -1.5                 1.5       Delta : HC->HC MI PGA 75V
Range 10A 10X : 0.00
4507.11090                                   Exp= 665.36993   Act= 665.30223
mA                                                  HC->HC MI PGA 75V Range 10A
10X
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4507.11091                                                    -0.067693755789946
mA              -4.825              4.825       Delta : HC->HC MI PGA 75V
Range 10A 10X : 665.00
4507.11092                          Exp= -665.29494  Act= -665.35455
mA                                          HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11093                                                    -0.059602698266644
mA              -2.6305             2.6305      Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : -665.00
4507.11094                          Exp= -0.08404    Act= -0.05684
mA                                          HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11095                                                     0.027196909182778
mA                -1.5                1.5       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 0.00
4507.11096                          Exp= 665.36993   Act= 665.30223
mA                                          HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11097                                                    -0.067693755789946
mA              -2.6305             2.6305      Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 665.00
4507.11098                          Exp= -66.47327   Act= -66.51218
mA                                          HC->HC MI PGA 75V Range 10A
100X
4507.11099                                                    -0.038905240935563
mA              -1.0825             1.0825      Delta : HC->HC MI PGA 75V
Range 10A 100X : -66.50
4507.11100                          Exp= -0.10348    Act= -0.15519
mA                                          HC->HC MI PGA 75V Range 10A
100X
4507.11101                                                    -0.051712032939847
mA               -0.75               0.75       Delta : HC->HC MI PGA 75V
Range 10A 100X : 0.00
4507.11102                          Exp= 66.25826    Act= 66.20992
mA                                          HC->HC MI PGA 75V Range 10A
100X
4507.11103                                                    -0.048335958378203
mA              -1.0825             1.0825      Delta : HC->HC MI PGA 75V
Range 10A 100X : 66.50
4507.11104                          Exp= -66.47327   Act= -66.51218
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mA                                                  HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11105                                                -0.038905240935563
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : -66.50
4507.11106                                  Exp= -0.10348    Act= -0.15519
mA                                                  HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11107                                                -0.051712032939847
mA                -0.75                0.75       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 0.00
4507.11108                                  Exp= 66.25826    Act= 66.20992
mA                                                  HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11109                                                -0.048335958378203
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 66.50
4507.11110                                  Exp= -266.05256  Act= -266.08808
mA                                                  HC->HC MI PGA 75V Range 4A 10X
4507.11111                                                -0.035518476149719
mA               -1.157               1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : -266.00
4507.11112                                  Exp= -0.03513    Act= -0.02838
mA                                                  HC->HC MI PGA 75V Range 4A 10X
4507.11113                                                 0.006756659633518
mA               -0.625               0.625       Delta : HC->HC MI PGA 75V
Range 4A 10X : 0.00
4507.11114                                  Exp= 266.05047   Act= 266.02672
mA                                                  HC->HC MI PGA 75V Range 4A 10X
4507.11115                                                -0.023754788009455
mA               -1.157               1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : 266.00
4507.11116                                  Exp= -26.61793   Act= -26.62747
mA                                                  HC->HC MI PGA 75V Range 4A
100X
4507.11117                                                -0.009546811676458
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : -26.60
4507.11118                                  Exp= -0.02884    Act= -0.04111
mA                                                  HC->HC MI PGA 75V Range 4A
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100X
4507.11119 -0.012268937164599
mA -0.312 0.312 Delta : HC->HC MI PGA 75V
Range 4A 100X : 0.00
4507.11120 Exp= 26.55486 Act= 26.54259
mA HC->HC MI PGA 75V Range 4A
100X
4507.11121 -0.012272436007223
mA -0.3652 0.3652 Delta : HC->HC MI PGA 75V
Range 4A 100X : 26.60
4507.11122 Exp= -668.25977 Act= -668.72367
mA HC->HC MI PGA 30V Range 100A
10X
4507.11123 -0.463902566378351
mA -18.325 18.325 Delta : HC->HC MI PGA 30V
Range 100A 10X : -665.00
4507.11124 Exp= -3.01553 Act= -3.39018
mA HC->HC MI PGA 30V Range 100A
10X
4507.11125 -0.374649243439662
mA -15 15 Delta : HC->HC MI PGA 30V
Range 100A 10X : 0.00
4507.11126 Exp= 661.78968 Act= 661.30086
mA HC->HC MI PGA 30V Range 100A
10X
4507.11127 -0.488824349935499
mA -18.325 18.325 Delta : HC->HC MI PGA 30V
Range 100A 10X : 665.00
4507.11128 Exp= -668.44073 Act= -668.73172
mA HC->HC MI PGA 30V Range 100A
100X
4507.11129 -0.290990866295488
mA -10.825 10.825 Delta : HC->HC MI PGA 30V
Range 100A 100X : -665.00
4507.11130 Exp= -3.09377 Act= -3.45507
mA HC->HC MI PGA 30V Range 100A
100X
4507.11131 -0.361293338348038
mA -7.5 7.5 Delta : HC->HC MI PGA 30V
Range 100A 100X : 0.00

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4507.11132                                  Exp= 661.58238   Act= 661.26458
mA                                                HC->HC MI PGA 30V Range 100A
100X
4507.11133                                                  -0.317799485432147
mA              -10.825              10.825       Delta : HC->HC MI PGA 30V
Range 100A 100X : 665.00
4507.11134                                  Exp= -665.33321  Act= -665.40362
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11135                                                  -0.070408762674106
mA               -4.825               4.825       Delta : HC->HC MI PGA 30V
Range 10A 10X : -665.00
4507.11136                                  Exp= -0.05427    Act= -0.01934
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11137                                                   0.034935545975155
mA                 -1.5                 1.5       Delta : HC->HC MI PGA 30V
Range 10A 10X : 0.00
4507.11138                                  Exp= 665.32412   Act= 665.27178
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11139                                                  -0.052339129409347
mA               -4.825               4.825       Delta : HC->HC MI PGA 30V
Range 10A 10X : 665.00
4507.11140                                  Exp= -665.33321  Act= -665.40362
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11141                                                  -0.070408762674106
mA              -2.6305              2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : -665.00
4507.11142                                  Exp= -0.05427    Act= -0.01934
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11143                                                   0.034935545975155
mA                 -1.5                 1.5       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 0.00
4507.11144                                  Exp= 665.32412   Act= 665.27178
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11145                                                  -0.052339129409347
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mA              -2.6305              2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 665.00
4507.11146                                Exp= -66.43309   Act= -66.46348
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11147                                                -0.030393247438482
mA              -1.0825              1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : -66.50
4507.11148                                Exp= -0.07330    Act= -0.10177
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11149                                                -0.028462095195760
mA                -0.75                0.75       Delta : HC->HC MI PGA 30V
Range 10A 100X : 0.00
4507.11150                                Exp= 66.29306    Act= 66.26568
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11151                                                -0.027381684450148
mA              -1.0825              1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : 66.50
4507.11152                                Exp= -66.43309   Act= -66.46348
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11153                                                -0.030393247438482
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : -66.50
4507.11154                                Exp= -0.07330    Act= -0.10177
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11155                                                -0.028462095195760
mA                -0.75                0.75       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 0.00
4507.11156                                Exp= 66.29306    Act= 66.26568
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11157                                                -0.027381684450148
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 66.50
4507.11158                                Exp= -266.05546  Act= -266.07488
mA                                                HC->HC MI PGA 30V Range 4A 10X
```

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4507.11159                                                  -0.019412487027410
mA                -1.157                1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : -266.00
4507.11160                                  Exp= -0.01477    Act= -0.01567
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11161                                                  -0.000907537837044
mA                -0.625                0.625       Delta : HC->HC MI PGA 30V
Range 4A 10X : 0.00
4507.11162                                  Exp= 266.03441   Act= 266.00645
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11163                                                  -0.027957935512006
mA                -1.157                1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : 266.00
4507.11164                                  Exp= -26.60186   Act= -26.61611
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11165                                                  -0.014241158692936
mA              -0.3652               0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : -26.60
4507.11166                                  Exp= -0.01472    Act= -0.02850
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11167                                                  -0.013781271413378
mA                -0.312                0.312       Delta : HC->HC MI PGA 30V
Range 4A 100X : 0.00
4507.11168                                  Exp= 26.53619    Act= 26.52268
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11169                                                  -0.013509817786918
mA              -0.3652               0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : 26.60
4507.11170                                  Exp= -668.28534  Act= -668.71683
mA                                                HC->HC MI PGA 10V Range 100A
10X
4507.11171                                                  -0.431492075320875
mA              -18.325               18.325       Delta : HC->HC MI PGA 10V
Range 100A 10X : -665.00
4507.11172                                  Exp= -2.89758    Act= -3.26805
mA                                                HC->HC MI PGA 10V Range 100A
10X
```

4507.11173 -0.370470595688397
mA -15 15 Delta : HC->HC MI PGA 10V
Range 100A 10X : 0.00
4507.11174 Exp= 661.80450 Act= 661.58843
mA HC->HC MI PGA 10V Range 100A
10X
4507.11175 -0.216065202426648
mA -18.325 18.325 Delta : HC->HC MI PGA 10V
Range 100A 10X : 665.00
4507.11176 Exp= -668.30635 Act= -668.64545
mA HC->HC MI PGA 10V Range 100A
100X
4507.11177 -0.339095162733656
mA -10.825 10.825 Delta : HC->HC MI PGA 10V
Range 100A 100X : -665.00
4507.11178 Exp= -3.06888 Act= -3.32545
mA HC->HC MI PGA 10V Range 100A
100X
4507.11179 -0.256565983330658
mA -7.5 7.5 Delta : HC->HC MI PGA 10V
Range 100A 100X : 0.00
4507.11180 Exp= 661.63197 Act= 661.40691
mA HC->HC MI PGA 10V Range 100A
100X
4507.11181 -0.225062298587090
mA -10.825 10.825 Delta : HC->HC MI PGA 10V
Range 100A 100X : 665.00
4507.11182 Exp= -664.68510 Act= -664.72651
mA HC->HC MI PGA 10V Range 10A
10X
4507.11183 -0.041414996953563
mA -4.825 4.825 Delta : HC->HC MI PGA 10V
Range 10A 10X : -665.00
4507.11184 Exp= -0.01611 Act= 0.08713
mA HC->HC MI PGA 10V Range 10A
10X
4507.11185 0.103235328585886
mA -1.5 1.5 Delta : HC->HC MI PGA 10V
Range 10A 10X : 0.00
4507.11186 Exp= 664.98545 Act= 664.89034

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mA                                                  HC->HC MI PGA 10V Range 10A
10X
4507.11187                                                  -0.095105552326004
mA              -4.825              4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : 665.00
4507.11188                          Exp= -664.68510  Act= -664.72651
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11189                                                  -0.041414996953563
mA              -2.6305             2.6305      Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : -665.00
4507.11190                          Exp= -0.01611    Act= 0.08713
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11191                                                   0.103235328585886
mA                -1.5                1.5       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 0.00
4507.11192                          Exp= 664.98545   Act= 664.89034
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11193                                                  -0.095105552326004
mA              -2.6305             2.6305      Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 665.00
4507.11194                          Exp= -66.43314   Act= -66.44685
mA                                                  HC->HC MI PGA 10V Range 10A
100X
4507.11195                                                  -0.013716773211314
mA              -1.0825             1.0825      Delta : HC->HC MI PGA 10V
Range 10A 100X : -66.50
4507.11196                          Exp= -0.00938    Act= -0.01793
mA                                                  HC->HC MI PGA 10V Range 10A
100X
4507.11197                                                  -0.008546643241310
mA               -0.75               0.75       Delta : HC->HC MI PGA 10V
Range 10A 100X : 0.00
4507.11198                          Exp= 66.44214    Act= 66.41742
mA                                                  HC->HC MI PGA 10V Range 10A
100X
4507.11199                                                  -0.024719154835992
mA              -1.0825             1.0825      Delta : HC->HC MI PGA 10V
```

```
Range 10A 100X : 66.50
4507.11200                                  Exp= -66.43314   Act= -66.44685
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11201                                                  -0.013716773211314
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : -66.50
4507.11202                                  Exp= -0.00938    Act= -0.01793
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11203                                                  -0.008546643241310
mA                -0.75                 0.75       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 0.00
4507.11204                                  Exp= 66.44214    Act= 66.41742
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11205                                                  -0.024719154835992
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 66.50
4507.11206                                  Exp= -265.97649  Act= -265.99255
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11207                                                  -0.016065179044688
mA               -1.157               1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : -266.00
4507.11208                                  Exp= -0.01987    Act= -0.02123
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11209                                                  -0.001359374150436
mA               -0.625               0.625       Delta : HC->HC MI PGA 10V
Range 4A 10X : 0.00
4507.11210                                  Exp= 265.99301   Act= 265.97641
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11211                                                  -0.016603569964843
mA               -1.157               1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : 266.00
4507.11212                                  Exp= -26.57665   Act= -26.59184
mA                                                  HC->HC MI PGA 10V Range 4A
100X
4507.11213                                                  -0.015191487600092
mA              -0.3652               0.3652       Delta : HC->HC MI PGA 10V
Range 4A 100X : -26.60
```

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4507.11214                                  Exp= -0.01561    Act= -0.02898
mA                                                HC->HC MI PGA 10V Range 4A
100X
4507.11215                                                  -0.013376733223137
mA              -0.312              0.312       Delta : HC->HC MI PGA 10V
Range 4A 100X : 0.00
4507.11216                                  Exp= 26.57659    Act= 26.56337
mA                                                HC->HC MI PGA 10V Range 4A
100X
4507.11217                                                  -0.013225573881513
mA             -0.3652             0.3652       Delta : HC->HC MI PGA 10V
Range 4A 100X : 26.60
4508.10000                                                  HC relays verified
DIB HC Relays Check
4508.10001                                                                  0
status                                      0       DIB HC Relays Check
4508.10002                                        Measure the HV 20V divider
External HV Source Calibration Factors
4508.10003                                                                  0
status                                      0       External HV Source
Calibration Factors
4508.10004                                       Measure the HV 200V divider
External HV Source Calibration Factors
4508.10005                                                                  0
status                                      0       External HV Source
Calibration Factors
4508.10006                                          Measure 2000V path
External HV Source Calibration Factors
4508.10007                                                                  0
status                                      0       External HV Source
Calibration Factors
4508.10008                                              Measure ATTEN_2
External HV Source Calibration Factors
4508.10009                                                                  0
status                                      0       External HV Source
Calibration Factors
4508.10010                                       HV cal factors to/from file
External HV Source Calibration Factors
4508.10011                                                                  0
status                                      0       External HV Source
```

```
Calibration Factors
4508.10012                                    External HV Source Cal Data
External HV Source Calibration Factors
4508.10013                                                              0
status                                        0       External HV Source
Calibration Factors
4508.10014                                                        -0.00130
-0.0016294          -0.00097761       External HV Source 20V Range slope
4508.10015                                                        -0.00125
-0.05                 0.05       External HV Source 20V Range offset
4508.10016                                                        -0.01406
-0.017924            -0.010754       External HV Source 200V Range slope
4508.10017                                                        -0.01349
-0.5                  0.5       External HV Source 200V Range offset
4508.10018                                                        -0.12212
-0.15259            -0.091554       External HV Source 2000V Range slope
4508.10019                                                        -0.11667
-5                    5       External HV Source 2000V Range offset
4508.10020                                                         0.48950
Atten_2 value
4508.10021                              Exp= -9.49895    Act= -9.49881
V                                       Volt Meter 10V Range 1X
4508.10022                                        0.000142606120869
V             -0.00595                0.00595       Delta : Volt Meter 10V Range
1X : -9.50
4508.10023                              Exp= 0.00109     Act= 0.00108
V                                       Volt Meter 10V Range 1X
4508.10024                                       -0.000005972697984
V              -0.0012                  0.0012       Delta : Volt Meter 10V Range
1X : 0.00
4508.10025                              Exp= 9.50115     Act= 9.50110
V                                       Volt Meter 10V Range 1X
4508.10026                                       -0.000048040633557
V             -0.00595                0.00595       Delta : Volt Meter 10V Range
1X : 9.50
4508.10027                              Exp= -28.49896   Act= -28.49886
V                                       Volt Meter 30V Range 1X
4508.10028                                        0.000102342634495
V             -0.01825                0.01825       Delta : Volt Meter 30V Range
1X : -28.50
```

4508.10029 Exp= 0.00125 Act= 0.00124
V Volt Meter 30V Range 1X
4508.10030 -0.000011455272820
V -0.004 0.004 Delta : Volt Meter 30V Range
1X : 0.00
4508.10031 Exp= 28.50112 Act= 28.50123
V Volt Meter 30V Range 1X
4508.10032 0.000108185613517
V -0.01825 0.01825 Delta : Volt Meter 30V Range
1X : 28.50
4508.10033 Exp= -94.99887 Act= -94.99854
V Volt Meter 100V Range 1X
4508.10034 0.000330622762689
V -0.06 0.06 Delta : Volt Meter 100V Range
1X : -95.00
4508.10035 Exp= 0.00166 Act= 0.00164
V Volt Meter 100V Range 1X
4508.10036 -0.000023326667413
V -0.0125 0.0125 Delta : Volt Meter 100V Range
1X : 0.00
4508.10037 Exp= 95.00060 Act= 95.00086
V Volt Meter 100V Range 1X
4508.10038 0.000254611486810
V -0.06 0.06 Delta : Volt Meter 100V Range
1X : 95.00
4508.10039 Exp= -0.94887 Act= -0.94887
V Volt Meter 10V Range 10X
4508.10040 -0.000000085133281
V -0.001075 0.001075 Delta : Volt Meter 10V Range
10X : -0.95
4508.10041 Exp= 0.00109 Act= 0.00109
V Volt Meter 10V Range 10X
4508.10042 0.000001075803773
V -0.0006 0.0006 Delta : Volt Meter 10V Range
10X : 0.00
4508.10043 Exp= 0.95114 Act= 0.95115
V Volt Meter 10V Range 10X
4508.10044 0.000008072262717
V -0.001075 0.001075 Delta : Volt Meter 10V Range
10X : 0.95

```
4508.10045                                  Exp= -0.09389    Act= -0.09388
V                                               Volt Meter 10V Range 100X
4508.10046                                                  0.000005917954580
V           -0.0003475          0.0003475       Delta : Volt Meter 10V Range
100X : -0.10
4508.10047                                  Exp= 0.00109     Act= 0.00109
V                                               Volt Meter 10V Range 100X
4508.10048                                                  0.000002791398688
V              -0.0003              0.0003       Delta : Volt Meter 10V Range
100X : 0.00
4508.10049                                  Exp= 0.09608     Act= 0.09608
V                                               Volt Meter 10V Range 100X
4508.10050                                                  0.000000789479065
V           -0.0003475          0.0003475       Delta : Volt Meter 10V Range
100X : 0.10
4508.10051                                  Exp= -2.84870    Act= -2.84871
V                                               Volt Meter 30V Range 10X
4508.10052                                                 -0.000012666574159
V            -0.003425           0.003425       Delta : Volt Meter 30V Range
10X : -2.85
4508.10053                                  Exp= 0.00125     Act= 0.00122
V                                               Volt Meter 30V Range 10X
4508.10054                                                 -0.000033173785412
V              -0.002               0.002       Delta : Volt Meter 30V Range
10X : 0.00
4508.10055                                  Exp= 2.85121     Act= 2.85119
V                                               Volt Meter 30V Range 10X
4508.10056                                                 -0.000024038224818
V            -0.003425           0.003425       Delta : Volt Meter 30V Range
10X : 2.85
4508.10057                                  Exp= -0.28374    Act= -0.28374
V                                               Volt Meter 30V Range 100X
4508.10058                                                  0.000000347304961
V           -0.0011425          0.0011425       Delta : Volt Meter 30V Range
100X : -0.29
4508.10059                                  Exp= 0.00124     Act= 0.00125
V                                               Volt Meter 30V Range 100X
4508.10060                                                  0.000004901593104
V              -0.001               0.001       Delta : Volt Meter 30V Range
100X : 0.00
```

```
4508.10061                                  Exp= 0.28623     Act= 0.28622
V                                                Volt Meter 30V Range 100X
4508.10062                                                -0.000011648456660
V           -0.0011425            0.0011425       Delta : Volt Meter 30V Range
100X : 0.29
4508.10063                                  Exp= -9.49868    Act= -9.49868
V                                                Volt Meter 100V Range 10X
4508.10064                                                 0.000007473758023
V            -0.01075              0.01075       Delta : Volt Meter 100V Range
10X : -9.50
4508.10065                                  Exp= 0.00166     Act= 0.00159
V                                                Volt Meter 100V Range 10X
4508.10066                                               -0.000073222466984
V              -0.006                0.006       Delta : Volt Meter 100V Range
10X : 0.00
4508.10067                                  Exp= 9.50117     Act= 9.50121
V                                                Volt Meter 100V Range 10X
4508.10068                                                 0.000036784308167
V            -0.01075              0.01075       Delta : Volt Meter 100V Range
10X : 9.50
4508.10069                                  Exp= -0.94874    Act= -0.94878
V                                                Volt Meter 100V Range 100X
4508.10070                                                -0.000037546203214
V           -0.003475             0.003475       Delta : Volt Meter 100V Range
100X : -0.95
4508.10071                                  Exp= 0.00166     Act= 0.00162
V                                                Volt Meter 100V Range 100X
4508.10072                                                -0.000040371955190
V              -0.003                0.003       Delta : Volt Meter 100V Range
100X : 0.00
4508.10073                                  Exp= 0.95144     Act= 0.95140
V                                                Volt Meter 100V Range 100X
4508.10074                                                -0.000034564722135
V           -0.003475             0.003475       Delta : Volt Meter 100V Range
100X : 0.95
4509.10000                                                              39.0  deg
C                                                MotherBoard Cal Temperature
4509.10001                                                              39.4  deg
C                                                MotherBoard Chk Temperature
4509.10002   MotherBoard temperature check Exp = 38.964005, Act = 39.355453
```

```
MotherBoard Chk Temperature
4509.10003                                                              0
status                                          0       MotherBoard Chk
Temperature
4509.10004                                                           43.8  deg
C                                                 Control Board Cal Temperature
4509.10005                                                           43.8  deg
C                                                 Control Board Chk Temperature
4509.10006 Control Board temperature check Exp = 43.804607, Act = 43.796076
Control Board Chk Temperature
4509.10007                                                              0
status                                          0       Control Board Chk
Temperature
Datalog for: Check HPU-104      REV 43, Site #0, Bin #1
  TEST#                                                              RESULT
UNITS                LOWER                UPPER ALARM TEST NAME
---------- ------------------------------------------------------------ -----
- ------------------- ------------------- ----- ------------------------------
-------------------------------------------------------
    4500.0                                                                 0
0       If this failed there are Fatal Errors during Startup, Check System
Monitor
 4500.1000                                                 ETS1UOJUM00038
COMPUTER INFORMATION - Name
 4500.1001                                                    1000.000000
V                                               DIAG/CAL INFORMATION - Maximum
Voltage
 4500.1101                                                              0
0       PLD REVISION INFORMATION
 4500.1103                                                              0
0       PLD REVISION INFORMATION
 4500.1105                                                              3
3       PLD REVISION INFORMATION
 4500.1106                                    DATA[0]={0, 0, 1, 0, 5}
PLD REVISION INFORMATION
 4500.1107                                    DATA[1]={0, 1, 1, 0, 8}
PLD REVISION INFORMATION
 4500.1108                                   DATA[2]={0, 0, 1, 0, 1990}
PLD REVISION INFORMATION
4501.10000                                                    -29.99426
```

```
V              -30.027          -29.973       LC->LC 16 Bit DRV 30V Range
4501.10001                                            0.005742099999999
V               -0.027            0.027       Delta : LC->LC 16 Bit DRV 30V
Range : -30.00
4501.10002                                                    -25.99775
V              -26.025          -25.975       LC->LC 16 Bit DRV 30V Range
4501.10003                                            0.002248800000000
V               -0.025            0.025       Delta : LC->LC 16 Bit DRV 30V
Range : -26.00
4501.10004                                                    -22.00011
V              -22.023          -21.977       LC->LC 16 Bit DRV 30V Range
4501.10005                                           -0.000112500000000
V               -0.023            0.023       Delta : LC->LC 16 Bit DRV 30V
Range : -22.00
4501.10006                                                    -18.00285
V              -18.021          -17.979       LC->LC 16 Bit DRV 30V Range
4501.10007                                           -0.002850500000001
V               -0.021            0.021       Delta : LC->LC 16 Bit DRV 30V
Range : -18.00
4501.10008                                                    -10.00430
V              -10.017           -9.983       LC->LC 16 Bit DRV 30V Range
4501.10009                                           -0.004297700000000
V               -0.017            0.017       Delta : LC->LC 16 Bit DRV 30V
Range : -10.00
4501.10010                                                     -0.00485
V               -0.012            0.012       LC->LC 16 Bit DRV 30V Range
4501.10011                                           -0.004851969660000
V               -0.012            0.012       Delta : LC->LC 16 Bit DRV 30V
Range : 0.00
4501.10012                                                     9.99806
V                9.983           10.017       LC->LC 16 Bit DRV 30V Range
4501.10013                                           -0.001935010000000
V               -0.017            0.017       Delta : LC->LC 16 Bit DRV 30V
Range : 10.00
4501.10014                                                    18.00040
V               17.979           18.021       LC->LC 16 Bit DRV 30V Range
4501.10015                                            0.000403400000000
V               -0.021            0.021       Delta : LC->LC 16 Bit DRV 30V
Range : 18.00
4501.10016                                                    22.00025
```

```
V                21.977          22.023       LC->LC 16 Bit DRV 30V Range
4501.10017                                                0.000249900000000
V                -0.023           0.023       Delta : LC->LC 16 Bit DRV 30V
Range : 22.00
4501.10018                                                       26.00132
V                25.975          26.025       LC->LC 16 Bit DRV 30V Range
4501.10019                                                0.001316100000000
V                -0.025           0.025       Delta : LC->LC 16 Bit DRV 30V
Range : 26.00
4501.10020                                                       30.00209
V                29.973          30.027       LC->LC 16 Bit DRV 30V Range
4501.10021                                                0.002085699999999
V                -0.027           0.027       Delta : LC->LC 16 Bit DRV 30V
Range : 30.00
4501.10022                                                       -9.99847
V               -10.013          -9.987       LC->LC 16 Bit DRV 10V Range
4501.10023                                                0.001525880000001
V                -0.013           0.013       Delta : LC->LC 16 Bit DRV 10V
Range : -10.00
4501.10024                                                       -7.99962
V                -8.012          -7.988       LC->LC 16 Bit DRV 10V Range
4501.10025                                                0.000379090000000
V                -0.012           0.012       Delta : LC->LC 16 Bit DRV 10V
Range : -8.00
4501.10026                                                       -6.00046
V                -6.011          -5.989       LC->LC 16 Bit DRV 10V Range
4501.10027                                               -0.000463250000000
V                -0.011           0.011       Delta : LC->LC 16 Bit DRV 10V
Range : -6.00
4501.10028                                                       -4.00066
V                 -4.01           -3.99       LC->LC 16 Bit DRV 10V Range
4501.10029                                               -0.000660900000000
V                 -0.01            0.01       Delta : LC->LC 16 Bit DRV 10V
Range : -4.00
4501.10030                                                       -2.00119
V                -2.009          -1.991       LC->LC 16 Bit DRV 10V Range
4501.10031                                               -0.001188160000000
V                -0.009           0.009       Delta : LC->LC 16 Bit DRV 10V
Range : -2.00
4501.10032                                                       -0.00119
```

V	-0.008	0.008	LC->LC 16 Bit DRV 10V Range
4501.10033			-0.001193664330000
V	-0.008	0.008	Delta : LC->LC 16 Bit DRV 10V
Range : 0.00			
4501.10034			1.99927
V	1.991	2.009	LC->LC 16 Bit DRV 10V Range
4501.10035			-0.000733140000000
V	-0.009	0.009	Delta : LC->LC 16 Bit DRV 10V
Range : 2.00			
4501.10036			3.99964
V	3.99	4.01	LC->LC 16 Bit DRV 10V Range
4501.10037			-0.000355720000000
V	-0.01	0.01	Delta : LC->LC 16 Bit DRV 10V
Range : 4.00			
4501.10038			6.00029
V	5.989	6.011	LC->LC 16 Bit DRV 10V Range
4501.10039			0.000294210000000
V	-0.011	0.011	Delta : LC->LC 16 Bit DRV 10V
Range : 6.00			
4501.10040			8.00070
V	7.988	8.012	LC->LC 16 Bit DRV 10V Range
4501.10041			0.000702860000001
V	-0.012	0.012	Delta : LC->LC 16 Bit DRV 10V
Range : 8.00			
4501.10042			10.00109
V	9.987	10.013	LC->LC 16 Bit DRV 10V Range
4501.10043			0.001094800000001
V	-0.013	0.013	Delta : LC->LC 16 Bit DRV 10V
Range : 10.00			
4502.10000			-29.99993
V	-30.014	-29.987	LC->LC 18 Bit DRV 30V Range
4502.10001			0.000066799999999
V	-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V
Range : -30.00			
4502.10002			-15.00083
V	-15.01	-14.99	LC->LC 18 Bit DRV 30V Range
4502.10003			-0.000833999999999
V	-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V
Range : -15.00			
4502.10004			0.00022

V -0.006 0.006 LC->LC 18 Bit DRV 30V Range
4502.10005 0.000222357317000
V -0.006 0.006 Delta : LC->LC 18 Bit DRV 30V
Range : 0.00
4502.10006 15.00102
V 14.99 15.01 LC->LC 18 Bit DRV 30V Range
4502.10007 0.001015199999999
V -0.00975 0.00975 Delta : LC->LC 18 Bit DRV 30V
Range : 15.00
4502.10008 29.99972
V 29.987 30.014 LC->LC 18 Bit DRV 30V Range
4502.10009 -0.000283199999998
V -0.0135 0.0135 Delta : LC->LC 18 Bit DRV 30V
Range : 30.00
4502.10010 -9.99991
V -10.007 -9.9935 LC->LC 18 Bit DRV 10V Range
4502.10011 0.000091080000001
V -0.0065 0.0065 Delta : LC->LC 18 Bit DRV 10V
Range : -10.00
4502.10012 -5.00010
V -5.0053 -4.9948 LC->LC 18 Bit DRV 10V Range
4502.10013 -0.000099420000000
V -0.00525 0.00525 Delta : LC->LC 18 Bit DRV 10V
Range : -5.00
4502.10014 0.00005
V -0.004 0.004 LC->LC 18 Bit DRV 10V Range
4502.10015 0.000045272978200
V -0.004 0.004 Delta : LC->LC 18 Bit DRV 10V
Range : 0.00
4502.10016 5.00013
V 4.9948 5.0053 LC->LC 18 Bit DRV 10V Range
4502.10017 0.000132560000000
V -0.00525 0.00525 Delta : LC->LC 18 Bit DRV 10V
Range : 5.00
4502.10018 9.99989
V 9.9935 10.007 LC->LC 18 Bit DRV 10V Range
4502.10019 -0.000114440000001
V -0.0065 0.0065 Delta : LC->LC 18 Bit DRV 10V
Range : 10.00
4503.10000 -99.99927

```
V               -100.04          -99.963       LC->LC V/I Mode FV 100V Range
4503.10001                                              0.000732400000004
V               -0.0375           0.0375       Delta : LC->LC V/I Mode FV 100V
Range : -100.00
4503.10002                                Exp= -99.99927    Act= -99.99949
V                                               LC->LC V/I Mode MV 100V Range
4503.10003                                             -0.000217937136981
V               -0.0375           0.0375       Delta : LC->LC V/I Mode MV 100V
Range : -100.00
4503.10004                                                      -50.00009
V               -50.025          -49.975       LC->LC V/I Mode FV 100V Range
4503.10005                                             -0.000085800000001
V                -0.025            0.025       Delta : LC->LC V/I Mode FV 100V
Range : -50.00
4503.10006                                Exp= -50.00009    Act= -49.99941
V                                               LC->LC V/I Mode MV 100V Range
4503.10007                                              0.000680283372390
V                -0.025            0.025       Delta : LC->LC V/I Mode MV 100V
Range : -50.00
4503.10008                                                       -0.00013
V               -0.0125           0.0125       LC->LC V/I Mode FV 100V Range
4503.10009                                             -0.000134817972000
V               -0.0125           0.0125       Delta : LC->LC V/I Mode FV 100V
Range : 0.00
4503.10010                                Exp= -0.00013     Act= -0.00092
V                                               LC->LC V/I Mode MV 100V Range
4503.10011                                             -0.000781863067395
V               -0.0125           0.0125       Delta : LC->LC V/I Mode MV 100V
Range : 0.00
4503.10012                                                       50.00123
V                49.975           50.025       LC->LC V/I Mode FV 100V Range
4503.10013                                              0.001234099999998
V                -0.025            0.025       Delta : LC->LC V/I Mode FV 100V
Range : 50.00
4503.10014                                Exp= 50.00123     Act= 50.00174
V                                               LC->LC V/I Mode MV 100V Range
4503.10015                                              0.000508631416672
V                -0.025            0.025       Delta : LC->LC V/I Mode MV 100V
Range : 50.00
4503.10016                                                       99.99960
```

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V                99.963          100.04       LC->LC V/I Mode FV 100V Range
4503.10017                                          -0.000404399999994
V               -0.0375          0.0375       Delta : LC->LC V/I Mode FV 100V
Range : 100.00
4503.10018                              Exp= 99.99960    Act= 99.99984
V                                           LC->LC V/I Mode MV 100V Range
4503.10019                                           0.000245218263530
V               -0.0375          0.0375       Delta : LC->LC V/I Mode MV 100V
Range : 100.00
4503.10020                                                  -29.99992
V                -30.01          -29.99       LC->LC V/I Mode FV 30V Range
4503.10021                                           0.000077200000000
V                 -0.01            0.01       Delta : LC->LC V/I Mode FV 30V
Range : -30.00
4503.10022                              Exp= -29.99992   Act= -30.00003
V                                           LC->LC V/I Mode MV 30V Range
4503.10023                                          -0.000106362321855
V                 -0.01            0.01       Delta : LC->LC V/I Mode MV 30V
Range : -30.00
4503.10024                                                  -14.99983
V               -15.006          -14.994       LC->LC V/I Mode FV 30V Range
4503.10025                                           0.000175000000000
V              -0.00625         0.00625       Delta : LC->LC V/I Mode FV 30V
Range : -15.00
4503.10026                              Exp= -14.99982   Act= -14.99978
V                                           LC->LC V/I Mode MV 30V Range
4503.10027                                           0.000046791034286
V              -0.00625         0.00625       Delta : LC->LC V/I Mode MV 30V
Range : -15.00
4503.10028                                                   -0.00002
V               -0.0025          0.0025       LC->LC V/I Mode FV 30V Range
4503.10029                                          -0.000019576309100
V               -0.0025          0.0025       Delta : LC->LC V/I Mode FV 30V
Range : 0.00
4503.10030                              Exp= -0.00002    Act= -0.00024
V                                           LC->LC V/I Mode MV 30V Range
4503.10031                                          -0.000218583579710
V               -0.0025          0.0025       Delta : LC->LC V/I Mode MV 30V
Range : 0.00
4503.10032                                                   15.00023
```

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V                14.994          15.006       LC->LC V/I Mode FV 30V Range
4503.10033                                              0.000232199999999
V               -0.00625         0.00625      Delta : LC->LC V/I Mode FV 30V
Range : 15.00
4503.10034                          Exp= 15.00023    Act= 15.00036
V                                               LC->LC V/I Mode MV 30V Range
4503.10035                                              0.000123364539801
V               -0.00625         0.00625      Delta : LC->LC V/I Mode MV 30V
Range : 15.00
4503.10036                                                      29.99987
V                29.99           30.01        LC->LC V/I Mode FV 30V Range
4503.10037                                             -0.000129699999999
V                -0.01            0.01        Delta : LC->LC V/I Mode FV 30V
Range : 30.00
4503.10038                          Exp= 29.99987    Act= 29.99986
V                                               LC->LC V/I Mode MV 30V Range
4503.10039                                             -0.000007250730402
V                -0.01            0.01        Delta : LC->LC V/I Mode MV 30V
Range : 30.00
4503.10040                                                     -9.99995
V               -10.003          -9.9967       LC->LC V/I Mode FV 10V Range
4503.10041                                              0.000053410000000
V               -0.0033           0.0033       Delta : LC->LC V/I Mode FV 10V
Range : -10.00
4503.10042                          Exp= -9.99995    Act= -10.00003
V                                               LC->LC V/I Mode MV 10V Range
4503.10043                                             -0.000085681734284
V               -0.0033           0.0033       Delta : LC->LC V/I Mode MV 10V
Range : -10.00
4503.10044                                                     -4.99994
V               -5.0021          -4.998        LC->LC V/I Mode FV 10V Range
4503.10045                                              0.000061990000000
V               -0.00205         0.00205      Delta : LC->LC V/I Mode FV 10V
Range : -5.00
4503.10046                          Exp= -4.99994    Act= -4.99990
V                                               LC->LC V/I Mode MV 10V Range
4503.10047                                              0.000036585075095
V               -0.00205         0.00205      Delta : LC->LC V/I Mode MV 10V
Range : -5.00
4503.10048                                                      0.00007
```

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V               -0.0008          0.0008       LC->LC V/I Mode FV 10V Range
4503.10049                                            0.000067558943600
V               -0.0008          0.0008       Delta : LC->LC V/I Mode FV 10V
Range : 0.00
4503.10050                              Exp= 0.00007     Act= 0.00002
V                                             LC->LC V/I Mode MV 10V Range
4503.10051                                           -0.000049625619388
V               -0.0008          0.0008       Delta : LC->LC V/I Mode MV 10V
Range : 0.00
4503.10052                                                        5.00004
V                 4.998          5.0021       LC->LC V/I Mode FV 10V Range
4503.10053                                            0.000043870000000
V              -0.00205         0.00205       Delta : LC->LC V/I Mode FV 10V
Range : 5.00
4503.10054                              Exp= 5.00004     Act= 5.00004
V                                             LC->LC V/I Mode MV 10V Range
4503.10055                                           -0.000004511207665
V              -0.00205         0.00205       Delta : LC->LC V/I Mode MV 10V
Range : 5.00
4503.10056                                                        9.99995
V                9.9967          10.003       LC->LC V/I Mode FV 10V Range
4503.10057                                           -0.000048639999999
V               -0.0033          0.0033       Delta : LC->LC V/I Mode FV 10V
Range : 10.00
4503.10058                              Exp= 9.99995     Act= 9.99998
V                                             LC->LC V/I Mode MV 10V Range
4503.10059                                            0.000027907649345
V               -0.0033          0.0033       Delta : LC->LC V/I Mode MV 10V
Range : 10.00
4503.10060                                                      -74.99951
V               -75.031         -74.969       HC->HC V/I Mode FV 75V Range
4503.10061                                            0.000488300000001
V              -0.03125         0.03125       Delta : HC->HC V/I Mode FV 75V
Range : -75.00
4503.10062                              Exp= -74.99951   Act= -74.99887
V                                             HC->HC V/I Mode MV 75V Range
4503.10063                                            0.000643685299110
V              -0.03125         0.03125       Delta : HC->HC V/I Mode MV 75V
Range : -75.00
4503.10064                                                      -37.49922
```

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V              -37.522              -37.478       HC->HC V/I Mode FV 75V Range
4503.10065                                                0.000780100000000
V            -0.021875             0.021875       Delta : HC->HC V/I Mode FV 75V
Range : -37.50
4503.10066                                  Exp= -37.49922    Act= -37.49881
V                                                 HC->HC V/I Mode MV 75V Range
4503.10067                                                0.000405197299699
V            -0.021875             0.021875       Delta : HC->HC V/I Mode MV 75V
Range : -37.50
4503.10068                                                          -0.00016
V              -0.0125               0.0125       HC->HC V/I Mode FV 75V Range
4503.10069                                               -0.000158457289000
V              -0.0125               0.0125       Delta : HC->HC V/I Mode FV 75V
Range : 0.00
4503.10070                                  Exp= -0.00016     Act= -0.00055
V                                                 HC->HC V/I Mode MV 75V Range
4503.10071                                               -0.000390455726183
V              -0.0125               0.0125       Delta : HC->HC V/I Mode MV 75V
Range : 0.00
4503.10072                                                           37.50051
V               37.478                37.522       HC->HC V/I Mode FV 75V Range
4503.10073                                                0.000511199999998
V            -0.021875             0.021875       Delta : HC->HC V/I Mode FV 75V
Range : 37.50
4503.10074                                  Exp= 37.50051     Act= 37.50028
V                                                 HC->HC V/I Mode MV 75V Range
4503.10075                                               -0.000232108308914
V            -0.021875             0.021875       Delta : HC->HC V/I Mode MV 75V
Range : 37.50
4503.10076                                                           74.99958
V               74.969                75.031       HC->HC V/I Mode FV 75V Range
4503.10077                                               -0.000415799999999
V             -0.03125              0.03125       Delta : HC->HC V/I Mode FV 75V
Range : 75.00
4503.10078                                  Exp= 74.99958     Act= 74.99947
V                                                 HC->HC V/I Mode MV 75V Range
4503.10079                                               -0.000118563202150
V             -0.03125              0.03125       Delta : HC->HC V/I Mode MV 75V
Range : 75.00
4503.10080                                                          -29.99991
```

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V                -30.01          -29.99       HC->HC V/I Mode FV 30V Range
4503.10081                                              0.000085800000001
V                 -0.01            0.01       Delta : HC->HC V/I Mode FV 30V
Range : -30.00
4503.10082                                 Exp= -29.99991    Act= -30.00006
V                                                HC->HC V/I Mode MV 30V Range
4503.10083                                             -0.000144922824632
V                 -0.01            0.01       Delta : HC->HC V/I Mode MV 30V
Range : -30.00
4503.10084                                                        -14.99983
V              -15.006          -14.994       HC->HC V/I Mode FV 30V Range
4503.10085                                              0.000173100000000
V              -0.00625         0.00625       Delta : HC->HC V/I Mode FV 30V
Range : -15.00
4503.10086                                 Exp= -14.99983    Act= -14.99979
V                                                HC->HC V/I Mode MV 30V Range
4503.10087                                              0.000037423517776
V              -0.00625         0.00625       Delta : HC->HC V/I Mode MV 30V
Range : -15.00
4503.10088                                                         -0.00002
V               -0.0025          0.0025       HC->HC V/I Mode FV 30V Range
4503.10089                                             -0.000019945672400
V               -0.0025          0.0025       Delta : HC->HC V/I Mode FV 30V
Range : 0.00
4503.10090                                 Exp= -0.00002     Act= -0.00019
V                                                HC->HC V/I Mode MV 30V Range
4503.10091                                             -0.000171912542381
V               -0.0025          0.0025       Delta : HC->HC V/I Mode MV 30V
Range : 0.00
4503.10092                                                         15.00023
V                14.994           15.006       HC->HC V/I Mode FV 30V Range
4503.10093                                              0.000230800000001
V              -0.00625         0.00625       Delta : HC->HC V/I Mode FV 30V
Range : 15.00
4503.10094                                 Exp= 15.00023     Act= 15.00033
V                                                HC->HC V/I Mode MV 30V Range
4503.10095                                              0.000101783575346
V              -0.00625         0.00625       Delta : HC->HC V/I Mode MV 30V
Range : 15.00
4503.10096                                                         29.99985
```

```
V                29.99              30.01       HC->HC V/I Mode FV 30V Range
4503.10097                                              -0.000152600000000
V                -0.01               0.01       Delta : HC->HC V/I Mode FV 30V
Range : 30.00
4503.10098                                  Exp= 29.99985    Act= 29.99998
V                                               HC->HC V/I Mode MV 30V Range
4503.10099                                               0.000132869871742
V                -0.01               0.01       Delta : HC->HC V/I Mode MV 30V
Range : 30.00
4503.10100                                                          -9.99998
V              -10.003             -9.9967       HC->HC V/I Mode FV 10V Range
4503.10101                                               0.000018600000001
V              -0.0033              0.0033       Delta : HC->HC V/I Mode FV 10V
Range : -10.00
4503.10102                                  Exp= -9.99998    Act= -10.00006
V                                               HC->HC V/I Mode MV 10V Range
4503.10103                                              -0.000079996205381
V              -0.0033              0.0033       Delta : HC->HC V/I Mode MV 10V
Range : -10.00
4503.10104                                                          -4.99996
V              -5.0021              -4.998       HC->HC V/I Mode FV 10V Range
4503.10105                                               0.000038150000000
V             -0.00205             0.00205       Delta : HC->HC V/I Mode FV 10V
Range : -5.00
4503.10106                                  Exp= -4.99996    Act= -4.99996
V                                               HC->HC V/I Mode MV 10V Range
4503.10107                                              -0.000001596480095
V             -0.00205             0.00205       Delta : HC->HC V/I Mode MV 10V
Range : -5.00
4503.10108                                                           0.00005
V              -0.0008              0.0008       HC->HC V/I Mode FV 10V Range
4503.10109                                               0.000050955161000
V              -0.0008              0.0008       Delta : HC->HC V/I Mode FV 10V
Range : 0.00
4503.10110                                  Exp= 0.00005     Act= -0.00003
V                                               HC->HC V/I Mode MV 10V Range
4503.10111                                              -0.000085488102084
V              -0.0008              0.0008       Delta : HC->HC V/I Mode MV 10V
Range : 0.00
4503.10112                                                           5.00011
```

```
V                4.998          5.0021       HC->HC V/I Mode FV 10V Range
4503.10113                                          0.000110150000000
V              -0.00205         0.00205      Delta : HC->HC V/I Mode FV 10V
Range : 5.00
4503.10114                          Exp= 5.00011     Act= 5.00008
V                                          HC->HC V/I Mode MV 10V Range
4503.10115                                        -0.000029010233398
V              -0.00205         0.00205      Delta : HC->HC V/I Mode MV 10V
Range : 5.00
4503.10116                                                    10.00000
V               9.9967          10.003       HC->HC V/I Mode FV 10V Range
4503.10117                                        -0.000004770000000
V               -0.0033         0.0033       Delta : HC->HC V/I Mode FV 10V
Range : 10.00
4503.10118                          Exp= 10.00000    Act= 10.00002
V                                          HC->HC V/I Mode MV 10V Range
4503.10119                                          0.000024423212398
V               -0.0033         0.0033       Delta : HC->HC V/I Mode MV 10V
Range : 10.00
4503.10120                                             HC relays OK
DIB HC Relays Check
4503.10121                                                          0
status                                 0       DIB HC Relays Check
4504.11000                                       HC relays verified
DIB HC Relays Check
4504.11001                                                          0
status                                 0       DIB HC Relays Check
4504.11002                                                -499.99678
mA             -500.38         -499.63       LC->LC FI 100V Range 500mA
4504.11003                                          0.003219000000001
mA              -0.375          0.375        Delta : LC->LC FI 100V Range
500mA : -500.00
4504.11004                          Exp= -499.99678  Act= -499.99726
mA                                         LC->LC MI 100V Range 500mA
4504.11005                                        -0.000477251160362
mA              -0.375          0.375        Delta : LC->LC MI 100V Range
500mA : -500.00
4504.11006                                                -250.00109
mA             -250.25         -249.75       LC->LC FI 100V Range 500mA
4504.11007                                        -0.001087999999982
```

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mA                -0.25              0.25       Delta : LC->LC FI 100V Range
500mA : -250.00
4504.11008                                Exp= -250.00109  Act= -250.00109
mA                                              LC->LC MI 100V Range 500mA
4504.11009                                            -0.000006660984013
mA                -0.25              0.25       Delta : LC->LC MI 100V Range
500mA : -250.00
4504.11010                                                          0.00012
mA                -0.125             0.125      LC->LC FI 100V Range 500mA
4504.11011                                             0.000115070065000
mA                -0.125             0.125      Delta : LC->LC FI 100V Range
500mA : 0.00
4504.11012                                Exp= 0.00012     Act= 0.00182
mA                                              LC->LC MI 100V Range 500mA
4504.11013                                             0.001706435594643
mA                -0.125             0.125      Delta : LC->LC MI 100V Range
500mA : 0.00
4504.11014                                                          250.00054
mA                249.75             250.25     LC->LC FI 100V Range 500mA
4504.11015                                             0.000535999999983
mA                 -0.25              0.25      Delta : LC->LC FI 100V Range
500mA : 250.00
4504.11016                                Exp= 250.00054   Act= 250.00329
mA                                              LC->LC MI 100V Range 500mA
4504.11017                                             0.002749889563603
mA                 -0.25              0.25      Delta : LC->LC MI 100V Range
500mA : 250.00
4504.11018                                                          499.99848
mA                499.63             500.38     LC->LC FI 100V Range 500mA
4504.11019                                           -0.001519999999971
mA                -0.375             0.375      Delta : LC->LC FI 100V Range
500mA : 500.00
4504.11020                                Exp= 499.99848   Act= 499.99957
mA                                              LC->LC MI 100V Range 500mA
4504.11021                                             0.001090639798406
mA                -0.375             0.375      Delta : LC->LC MI 100V Range
500mA : 500.00
4504.11022                                                         -950.00380
mA                -950.6             -949.4     LC->LC FI 30V Range 1A
4504.11023                                           -0.003802999999948
```

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mA                -0.6              0.6       Delta : LC->LC FI 30V Range
1A : -950.00
4504.11024                                Exp= -950.00380  Act= -950.00722
mA                                          LC->LC MI 30V Range 1A
4504.11025                                        -0.003414417560748
mA                -0.6              0.6       Delta : LC->LC MI 30V Range
1A : -950.00
4504.11026                                                 -475.00099
mA              -475.36           -474.64     LC->LC FI 30V Range 1A
4504.11027                                        -0.000991999999997
mA              -0.3625            0.3625     Delta : LC->LC FI 30V Range
1A : -475.00
4504.11028                                Exp= -475.00099  Act= -474.99504
mA                                          LC->LC MI 30V Range 1A
4504.11029                                         0.005954638556261
mA              -0.3625            0.3625     Delta : LC->LC MI 30V Range
1A : -475.00
4504.11030                                                  -0.00234
mA               -0.125             0.125     LC->LC FI 30V Range 1A
4504.11031                                       -0.002339758000000
mA               -0.125             0.125     Delta : LC->LC FI 30V Range
1A : 0.00
4504.11032                                Exp= -0.00234    Act= 0.00442
mA                                          LC->LC MI 30V Range 1A
4504.11033                                        0.006761697146241
mA               -0.125             0.125     Delta : LC->LC MI 30V Range
1A : 0.00
4504.11034                                                  475.00832
mA                474.64            475.36     LC->LC FI 30V Range 1A
4504.11035                                        0.008323999999959
mA              -0.3625            0.3625     Delta : LC->LC FI 30V Range
1A : 475.00
4504.11036                                Exp= 475.00832   Act= 475.00900
mA                                          LC->LC MI 30V Range 1A
4504.11037                                        0.000674944296861
mA              -0.3625            0.3625     Delta : LC->LC MI 30V Range
1A : 475.00
4504.11038                                                  950.00702
mA                949.4             950.6     LC->LC FI 30V Range 1A
4504.11039                                        0.007021000000009
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mA                  -0.6                0.6       Delta : LC->LC FI 30V Range
1A : 950.00
4504.11040                                  Exp= 950.00702   Act= 950.00349
mA                                              LC->LC MI 30V Range 1A
4504.11041                                            -0.003532723889407
mA                  -0.6                0.6       Delta : LC->LC MI 30V Range
1A : 950.00
4504.11042                                                      -100.00034
mA                -100.06             -99.938     LC->LC FI 30V Range 100mA
4504.11043                                            -0.000337000000002
mA                -0.0625              0.0625     Delta : LC->LC FI 30V Range
100mA : -100.00
4504.11044                                  Exp= -100.00034  Act= -100.00038
mA                                              LC->LC MI 30V Range 100mA
4504.11045                                            -0.000045108607424
mA                -0.0625              0.0625     Delta : LC->LC MI 30V Range
100mA : -100.00
4504.11046                                                       -50.00036
mA                -50.038             -49.963     LC->LC FI 30V Range 100mA
4504.11047                                            -0.000363999999998
mA                -0.0375              0.0375     Delta : LC->LC FI 30V Range
100mA : -50.00
4504.11048                                  Exp= -50.00036   Act= -50.00031
mA                                              LC->LC MI 30V Range 100mA
4504.11049                                             0.000051098016698
mA                -0.0375              0.0375     Delta : LC->LC MI 30V Range
100mA : -50.00
4504.11050                                                        -0.00045
mA                -0.0125              0.0125     LC->LC FI 30V Range 100mA
4504.11051                                            -0.000450982625000
mA                -0.0125              0.0125     Delta : LC->LC FI 30V Range
100mA : 0.00
4504.11052                                  Exp= -0.00045    Act= -0.00024
mA                                              LC->LC MI 30V Range 100mA
4504.11053                                             0.000210221470708
mA                -0.0125              0.0125     Delta : LC->LC MI 30V Range
100mA : 0.00
4504.11054                                                         50.00136
mA                 49.963              50.038     LC->LC FI 30V Range 100mA
4504.11055                                            0.001364200000005
```

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mA                -0.0375              0.0375       Delta : LC->LC FI 30V Range
100mA : 50.00
4504.11056                                  Exp= 50.00136    Act= 50.00085
mA                                                LC->LC MI 30V Range 100mA
4504.11057                                              -0.000515979008100
mA                -0.0375              0.0375       Delta : LC->LC MI 30V Range
100mA : 50.00
4504.11058                                                          100.00024
mA                 99.938              100.06       LC->LC FI 30V Range 100mA
4504.11059                                               0.000240000000005
mA                -0.0625              0.0625       Delta : LC->LC FI 30V Range
100mA : 100.00
4504.11060                                  Exp= 100.00024   Act= 100.00011
mA                                                LC->LC MI 30V Range 100mA
4504.11061                                            -0.000127522996081
mA                -0.0625              0.0625       Delta : LC->LC MI 30V Range
100mA : 100.00
4504.11062                                                           -9.99995
mA                -10.006              -9.9938      LC->LC FI 30V Range 10mA
4504.11063                                            0.000053769999999
mA               -0.00625             0.00625       Delta : LC->LC FI 30V Range
10mA : -10.00
4504.11064                                  Exp= -9.99995    Act= -10.00002
mA                                                LC->LC MI 30V Range 10mA
4504.11065                                            -0.000070588145372
mA               -0.00625             0.00625       Delta : LC->LC MI 30V Range
10mA : -10.00
4504.11066                                                           -5.00001
mA                -5.0038              -4.9963      LC->LC FI 30V Range 10mA
4504.11067                                            -0.000005480000000
mA               -0.00375             0.00375       Delta : LC->LC FI 30V Range
10mA : -5.00
4504.11068                                  Exp= -5.00001    Act= -5.00006
mA                                                LC->LC MI 30V Range 10mA
4504.11069                                            -0.000059501505622
mA               -0.00375             0.00375       Delta : LC->LC MI 30V Range
10mA : -5.00
4504.11070                                                           -0.00001
mA               -0.00125             0.00125       LC->LC FI 30V Range 10mA
4504.11071                                            -0.000008566548750
```

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mA              -0.00125              0.00125       Delta : LC->LC FI 30V Range
10mA : 0.00
4504.11072                                  Exp= -0.00001    Act= 0.00001
mA                                                LC->LC MI 30V Range 10mA
4504.11073                                                 0.000019643385776
mA              -0.00125              0.00125       Delta : LC->LC MI 30V Range
10mA : 0.00
4504.11074                                                              5.00007
mA                4.9963                5.0038       LC->LC FI 30V Range 10mA
4504.11075                                                 0.000066710000000
mA              -0.00375              0.00375       Delta : LC->LC FI 30V Range
10mA : 5.00
4504.11076                                  Exp= 5.00007     Act= 5.00012
mA                                                LC->LC MI 30V Range 10mA
4504.11077                                                 0.000054511510887
mA              -0.00375              0.00375       Delta : LC->LC MI 30V Range
10mA : 5.00
4504.11078                                                              9.99993
mA                9.9938                10.006       LC->LC FI 30V Range 10mA
4504.11079                                                -0.000071000000000
mA              -0.00625              0.00625       Delta : LC->LC FI 30V Range
10mA : 10.00
4504.11080                                  Exp= 9.99993     Act= 9.99998
mA                                                LC->LC MI 30V Range 10mA
4504.11081                                                 0.000050250337214
mA              -0.00625              0.00625       Delta : LC->LC MI 30V Range
10mA : 10.00
4504.11082                                                             -1.00000
mA               -1.0006              -0.99938       LC->LC FI 30V Range 1mA
4504.11083                                                 0.000002863000000
mA             -0.000625             0.000625       Delta : LC->LC FI 30V Range
1mA : -1.00
4504.11084                                  Exp= -1.00000    Act= -1.00000
mA                                                LC->LC MI 30V Range 1mA
4504.11085                                               -0.000007463856193
mA             -0.000625             0.000625       Delta : LC->LC MI 30V Range
1mA : -1.00
4504.11086                                                             -0.50000
mA              -0.50038              -0.49963       LC->LC FI 30V Range 1mA
4504.11087                                               -0.000002934000000
```

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mA              -0.000375              0.000375        Delta : LC->LC FI 30V Range
1mA : -0.50
4504.11088                                   Exp= -0.50000     Act= -0.50000
mA                                                LC->LC MI 30V Range 1mA
4504.11089                                                    0.000003705555352
mA              -0.000375              0.000375        Delta : LC->LC MI 30V Range
1mA : -0.50
4504.11090                                                                0.00000
mA              -0.000125              0.000125        LC->LC FI 30V Range 1mA
4504.11091                                                  -0.000001666550640
mA              -0.000125              0.000125        Delta : LC->LC FI 30V Range
1mA : 0.00
4504.11092                                   Exp= -0.00000     Act= -0.00000
mA                                                LC->LC MI 30V Range 1mA
4504.11093                                                    0.000001031417125
mA              -0.000125              0.000125        Delta : LC->LC MI 30V Range
1mA : 0.00
4504.11094                                                                0.50001
mA                0.49963                0.50038        LC->LC FI 30V Range 1mA
4504.11095                                                    0.000009599000000
mA              -0.000375              0.000375        Delta : LC->LC FI 30V Range
1mA : 0.50
4504.11096                                   Exp= 0.50001      Act= 0.50001
mA                                                LC->LC MI 30V Range 1mA
4504.11097                                                  -0.000003384831374
mA              -0.000375              0.000375        Delta : LC->LC MI 30V Range
1mA : 0.50
4504.11098                                                                1.00000
mA                0.99938                 1.0006        LC->LC FI 30V Range 1mA
4504.11099                                                    0.000000340000000
mA              -0.000625              0.000625        Delta : LC->LC FI 30V Range
1mA : 1.00
4504.11100                                   Exp= 1.00000      Act= 1.00000
mA                                                LC->LC MI 30V Range 1mA
4504.11101                                                  -0.000002108442153
mA              -0.000625              0.000625        Delta : LC->LC MI 30V Range
1mA : 1.00
4504.11102                                                              -950.00002
mA                -950.73                -949.28        LC->LC FI 10V Range 2A
4504.11103                                                  -0.000017999999955
```

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mA                -0.725              0.725       Delta : LC->LC FI 10V Range
2A : -950.00
4504.11104                                Exp= -950.00002  Act= -950.00519
mA                                              LC->LC MI 10V Range 2A
4504.11105                                            -0.005176907448231
mA                -0.725              0.725       Delta : LC->LC MI 10V Range
2A : -950.00
4504.11106                                                    -474.98900
mA                -475.49           -474.51       LC->LC FI 10V Range 2A
4504.11107                                             0.011002999999960
mA                -0.4875             0.4875      Delta : LC->LC FI 10V Range
2A : -475.00
4504.11108                                Exp= -474.98900  Act= -474.98437
mA                                              LC->LC MI 10V Range 2A
4504.11109                                             0.004624704632818
mA                -0.4875             0.4875      Delta : LC->LC MI 10V Range
2A : -475.00
4504.11110                                                     -0.01013
mA                 -0.25               0.25       LC->LC FI 10V Range 2A
4504.11111                                          -0.010126166200000
mA                 -0.25               0.25       Delta : LC->LC FI 10V Range
2A : 0.00
4504.11112                                Exp= -0.01013    Act= -0.00396
mA                                              LC->LC MI 10V Range 2A
4504.11113                                             0.006167021510678
mA                 -0.25               0.25       Delta : LC->LC MI 10V Range
2A : 0.00
4504.11114                                                     475.00706
mA                 474.51            475.49       LC->LC FI 10V Range 2A
4504.11115                                             0.007057000000032
mA                -0.4875             0.4875      Delta : LC->LC FI 10V Range
2A : 475.00
4504.11116                                Exp= 475.00706   Act= 475.00700
mA                                              LC->LC MI 10V Range 2A
4504.11117                                           -0.000053104640358
mA                -0.4875             0.4875      Delta : LC->LC MI 10V Range
2A : 475.00
4504.11118                                                     949.99364
mA                 949.28            950.73       LC->LC FI 10V Range 2A
4504.11119                                           -0.006359999999972
```

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mA                -0.725              0.725       Delta : LC->LC FI 10V Range
2A : 950.00
4504.11120                                Exp= 949.99364   Act= 949.99447
mA                                          LC->LC MI 10V Range 2A
4504.11121                                                0.000834734008890
mA                -0.725              0.725       Delta : LC->LC MI 10V Range
2A : 950.00
4504.11122                                                     -200.00167
mA               -200.13             -199.88       LC->LC FI 10V Range 200mA
4504.11123                                              -0.001671999999985
mA                -0.125              0.125       Delta : LC->LC FI 10V Range
200mA : -200.00
4504.11124                                Exp= -200.00167  Act= -200.00118
mA                                          LC->LC MI 10V Range 200mA
4504.11125                                                0.000489706216854
mA                -0.125              0.125       Delta : LC->LC MI 10V Range
200mA : -200.00
4504.11126                                                     -99.99850
mA               -100.08             -99.925       LC->LC FI 10V Range 200mA
4504.11127                                              0.001503499999998
mA                -0.075              0.075       Delta : LC->LC FI 10V Range
200mA : -100.00
4504.11128                                Exp= -99.99850   Act= -99.99928
mA                                          LC->LC MI 10V Range 200mA
4504.11129                                            -0.000779059010597
mA                -0.075              0.075       Delta : LC->LC MI 10V Range
200mA : -100.00
4504.11130                                                      -0.00130
mA                -0.025              0.025       LC->LC FI 10V Range 200mA
4504.11131                                            -0.001304127410000
mA                -0.025              0.025       Delta : LC->LC FI 10V Range
200mA : 0.00
4504.11132                                Exp= -0.00130    Act= 0.00029
mA                                          LC->LC MI 10V Range 200mA
4504.11133                                              0.001598807765350
mA                -0.025              0.025       Delta : LC->LC MI 10V Range
200mA : 0.00
4504.11134                                                      100.00188
mA                99.925              100.08       LC->LC FI 10V Range 200mA
4504.11135                                              0.001874999999998
```

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mA                -0.075              0.075       Delta : LC->LC FI 10V Range
200mA : 100.00
4504.11136                              Exp= 100.00187   Act= 100.00134
mA                                          LC->LC MI 10V Range 200mA
4504.11137                                        -0.000537038346536
mA                -0.075              0.075       Delta : LC->LC MI 10V Range
200mA : 100.00
4504.11138                                                    199.99715
mA                199.88              200.13      LC->LC FI 10V Range 200mA
4504.11139                                        -0.002850999999993
mA                -0.125              0.125       Delta : LC->LC FI 10V Range
200mA : 200.00
4504.11140                              Exp= 199.99715   Act= 199.99986
mA                                          LC->LC MI 10V Range 200mA
4504.11141                                         0.002711956574785
mA                -0.125              0.125       Delta : LC->LC MI 10V Range
200mA : 200.00
4504.11142                                                    -20.00000
mA               -20.013             -19.988      LC->LC FI 10V Range 20mA
4504.11143                                         0.000004199999999
mA               -0.0125             0.0125       Delta : LC->LC FI 10V Range
20mA : -20.00
4504.11144                              Exp= -20.00000   Act= -19.99999
mA                                          LC->LC MI 10V Range 20mA
4504.11145                                        0.000003160899734
mA               -0.0125             0.0125       Delta : LC->LC MI 10V Range
20mA : -20.00
4504.11146                                                    -10.00000
mA               -10.008             -9.9925      LC->LC FI 10V Range 20mA
4504.11147                                        0.000001620000001
mA               -0.0075             0.0075       Delta : LC->LC FI 10V Range
20mA : -10.00
4504.11148                              Exp= -10.00000   Act= -10.00004
mA                                          LC->LC MI 10V Range 20mA
4504.11149                                        -0.000041495002854
mA               -0.0075             0.0075       Delta : LC->LC MI 10V Range
20mA : -10.00
4504.11150                                                     0.00008
mA               -0.0025             0.0025       LC->LC FI 10V Range 20mA
4504.11151                                        0.000080174686400
```

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mA              -0.0025              0.0025       Delta : LC->LC FI 10V Range
20mA : 0.00
4504.11152                                Exp= 0.00008     Act= 0.00013
mA                                              LC->LC MI 10V Range 20mA
4504.11153                                             0.000044913266292
mA              -0.0025              0.0025       Delta : LC->LC MI 10V Range
20mA : 0.00
4504.11154                                                        10.00017
mA               9.9925              10.008       LC->LC FI 10V Range 20mA
4504.11155                                             0.000168800000001
mA              -0.0075              0.0075       Delta : LC->LC FI 10V Range
20mA : 10.00
4504.11156                                Exp= 10.00017    Act= 10.00024
mA                                              LC->LC MI 10V Range 20mA
4504.11157                                             0.000074224725067
mA              -0.0075              0.0075       Delta : LC->LC MI 10V Range
20mA : 10.00
4504.11158                                                        20.00018
mA               19.988              20.013       LC->LC FI 10V Range 20mA
4504.11159                                             0.000177399999998
mA              -0.0125              0.0125       Delta : LC->LC FI 10V Range
20mA : 20.00
4504.11160                                Exp= 20.00018    Act= 20.00013
mA                                              LC->LC MI 10V Range 20mA
4504.11161                                           -0.000042749103851
mA              -0.0125              0.0125       Delta : LC->LC MI 10V Range
20mA : 20.00
4504.11162                                                        -1.99999
mA              -2.0013              -1.9988      LC->LC FI 10V Range 2mA
4504.11163                                             0.000013990000000
mA             -0.00125             0.00125       Delta : LC->LC FI 10V Range
2mA : -2.00
4504.11164                                Exp= -1.99999    Act= -2.00000
mA                                              LC->LC MI 10V Range 2mA
4504.11165                                           -0.000011486503892
mA             -0.00125             0.00125       Delta : LC->LC MI 10V Range
2mA : -2.00
4504.11166                                                        -1.00001
mA              -1.0008             -0.99925      LC->LC FI 10V Range 2mA
4504.11167                                           -0.000007850000000
```

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mA              -0.00075              0.00075       Delta : LC->LC FI 10V Range
2mA : -1.00
4504.11168                                 Exp= -1.00001    Act= -0.99999
mA                                              LC->LC MI 10V Range 2mA
4504.11169                                             0.000018229357244
mA              -0.00075              0.00075       Delta : LC->LC MI 10V Range
2mA : -1.00
4504.11170                                                          -0.00001
mA              -0.00025              0.00025       LC->LC FI 10V Range 2mA
4504.11171                                           -0.000014617812700
mA              -0.00025              0.00025       Delta : LC->LC FI 10V Range
2mA : 0.00
4504.11172                                 Exp= -0.00001    Act= 0.00000
mA                                              LC->LC MI 10V Range 2mA
4504.11173                                             0.000019349253626
mA              -0.00025              0.00025       Delta : LC->LC MI 10V Range
2mA : 0.00
4504.11174                                                           1.00001
mA               0.99925               1.0008       LC->LC FI 10V Range 2mA
4504.11175                                             0.000006100000000
mA              -0.00075              0.00075       Delta : LC->LC FI 10V Range
2mA : 1.00
4504.11176                                 Exp= 1.00001     Act= 1.00001
mA                                              LC->LC MI 10V Range 2mA
4504.11177                                             0.000008179906070
mA              -0.00075              0.00075       Delta : LC->LC MI 10V Range
2mA : 1.00
4504.11178                                                           1.99998
mA                1.9988               2.0013       LC->LC FI 10V Range 2mA
4504.11179                                           -0.000016900000000
mA              -0.00125              0.00125       Delta : LC->LC FI 10V Range
2mA : 2.00
4504.11180                                 Exp= 1.99998     Act= 2.00000
mA                                              LC->LC MI 10V Range 2mA
4504.11181                                             0.000012909524515
mA              -0.00125              0.00125       Delta : LC->LC MI 10V Range
2mA : 2.00
4504.11182                                  Chk RSense100A =   2.00165 mOhms
4504.11183                                                              0
status                                         0
```

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4504.11184                                                    -29.99208
mA              -60.15          0.15        HC->HC FI 10V Range 100A
4504.11185                                    0.007922677695436
mA              -30.15          30.15       Delta : HC->HC FI 10V Range
100A : -30.00
4504.11186                  Exp= -29.99208   Act= -29.99945
mA                                HC->HC MI 10V Range 100A
4504.11187                                   -0.007371351234305
mA              -30.15          30.15       Delta : HC->HC MI 10V Range
100A : -30.00
4504.11188                                                    -14.99836
mA              -45.075         15.075      HC->HC FI 10V Range 100A
4504.11189                                    0.001644574852097
mA              -30.075         30.075      Delta : HC->HC FI 10V Range
100A : -15.00
4504.11190                  Exp= -14.99836   Act= -14.99938
mA                                HC->HC MI 10V Range 100A
4504.11191                                   -0.001027711828733
mA              -30.075         30.075      Delta : HC->HC MI 10V Range
100A : -15.00
4504.11192                                                     0.00000
mA                  -30             30      HC->HC FI 10V Range 100A
4504.11193                                    0.000000000000000
mA                  -30             30      Delta : HC->HC FI 10V Range
100A : 0.00
4504.11194                  Exp= 0.00000     Act= -0.00010
mA                                HC->HC MI 10V Range 100A
4504.11195                                   -0.000100047948368
mA                  -30             30      Delta : HC->HC MI 10V Range
100A : 0.00
4504.11196                                                     15.00964
mA              -15.075         45.075      HC->HC FI 10V Range 100A
4504.11197                                    0.009644623874369
mA              -30.075         30.075      Delta : HC->HC FI 10V Range
100A : 15.00
4504.11198                  Exp= 15.00964    Act= 14.99972
mA                                HC->HC MI 10V Range 100A
4504.11199                                   -0.009920807084841
mA              -30.075         30.075      Delta : HC->HC MI 10V Range
100A : 15.00
```

4504.11200 30.00654
mA -0.15 60.15 HC->HC FI 10V Range 100A
4504.11201 0.006536376956802
mA -30.15 30.15 Delta : HC->HC FI 10V Range 100A : 30.00
4504.11202 Exp= 30.00654 Act= 29.99975
mA HC->HC MI 10V Range 100A
4504.11203 -0.006783857017727
mA -30.15 30.15 Delta : HC->HC MI 10V Range 100A : 30.00
4504.11204 -949.93578
mA -957.75 -942.25 HC->HC FI 75V Range 10A
4504.11205 0.064218000000096
mA -7.75 7.75 Delta : HC->HC FI 75V Range 10A : -950.00
4504.11206 Exp= -949.93578 Act= -949.95848
mA HC->HC MI 75V Range 10A
4504.11207 -0.022695909007553
mA -7.75 7.75 Delta : HC->HC MI 75V Range 10A : -950.00
4504.11208 -475.08432
mA -480.38 -469.63 HC->HC FI 75V Range 10A
4504.11209 -0.084316999999999
mA -5.375 5.375 Delta : HC->HC FI 75V Range 10A : -475.00
4504.11210 Exp= -475.08432 Act= -475.00240
mA HC->HC MI 75V Range 10A
4504.11211 0.081918757837343
mA -5.375 5.375 Delta : HC->HC MI 75V Range 10A : -475.00
4504.11212 -0.01296
mA -3 3 HC->HC FI 75V Range 10A
4504.11213 -0.012964560900000
mA -3 3 Delta : HC->HC FI 75V Range 10A : 0.00
4504.11214 Exp= -0.01296 Act= 0.01314
mA HC->HC MI 75V Range 10A
4504.11215 0.026100258050574
mA -3 3 Delta : HC->HC MI 75V Range 10A : 0.00

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4504.11216                                                    475.24796
mA              469.63              480.38       HC->HC FI 75V Range 10A
4504.11217                                          0.247960999999975
mA              -5.375               5.375       Delta : HC->HC FI 75V Range
10A : 475.00
4504.11218                          Exp= 475.24796   Act= 475.04956
mA                                               HC->HC MI 75V Range 10A
4504.11219                                        -0.198402024560835
mA              -5.375               5.375       Delta : HC->HC MI 75V Range
10A : 475.00
4504.11220                                                    950.06807
mA              942.25              957.75       HC->HC FI 75V Range 10A
4504.11221                                          0.068068999999923
mA               -7.75                7.75       Delta : HC->HC FI 75V Range
10A : 950.00
4504.11222                          Exp= 950.06807   Act= 950.02123
mA                                               HC->HC MI 75V Range 10A
4504.11223                                        -0.046843697095937
mA               -7.75                7.75       Delta : HC->HC MI 75V Range
10A : 950.00
4504.11224                                                   -949.93578
mA             -954.62             -945.39       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11225                                          0.064218000000096
mA              -4.615               4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11226                          Exp= -949.93578  Act= -949.95848
mA                                               HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11227                                        -0.022695909007553
mA              -4.615               4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11228                                                   -475.08432
mA             -478.81             -471.19       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11229                                        -0.084316999999999
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11230                          Exp= -475.08432  Act= -475.00240
mA                                               HC->HC V/I Mode Current
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Force/Measure with booster check 75V Range 10A
4504.11231                                                    0.081918757837343
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11232                                                          -0.01296
mA                   -3                    3       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11233                                                 -0.012964560900000
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11234                                 Exp= -0.01296    Act= 0.01314
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11235                                                  0.026100258050574
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11236                                                        475.24796
mA               471.19                478.81       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11237                                                  0.247960999999975
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11238                                 Exp= 475.24796   Act= 475.04956
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11239                                                 -0.198402024560835
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11240                                                        950.06807
mA               945.39                954.62       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11241                                                  0.068068999999923
mA               -4.615                 4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11242                                 Exp= 950.06807   Act= 950.02123
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11243                                                 -0.046843697095937
mA               -4.615                 4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
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4504.11244                                                    -950.02004
mA              -953.15          -946.85       HC->HC FI 75V Range 4A
4504.11245                                          -0.020038999999997
mA                -3.15             3.15       Delta : HC->HC FI 75V Range
4A : -950.00
4504.11246                        Exp= -950.02004  Act= -949.98452
mA                                    HC->HC MI 75V Range 4A
4504.11247                                           0.035516366806633
mA                -3.15             3.15       Delta : HC->HC MI 75V Range
4A : -950.00
4504.11248                                                    -475.03618
mA              -477.2           -472.8        HC->HC FI 75V Range 4A
4504.11249                                          -0.036180000000002
mA                -2.2              2.2        Delta : HC->HC FI 75V Range
4A : -475.00
4504.11250                        Exp= -475.03618  Act= -474.99006
mA                                    HC->HC MI 75V Range 4A
4504.11251                                           0.046120465884599
mA                -2.2              2.2        Delta : HC->HC MI 75V Range
4A : -475.00
4504.11252                                                     -0.01708
mA                -1.25             1.25       HC->HC FI 75V Range 4A
4504.11253                                          -0.017076398200000
mA                -1.25             1.25       Delta : HC->HC FI 75V Range
4A : 0.00
4504.11254                        Exp= -0.01708    Act= -0.01324
mA                                    HC->HC MI 75V Range 4A
4504.11255                                           0.003833301769767
mA                -1.25             1.25       Delta : HC->HC MI 75V Range
4A : 0.00
4504.11256                                                     475.09010
mA               472.8            477.2        HC->HC FI 75V Range 4A
4504.11257                                           0.090098000000012
mA                -2.2              2.2        Delta : HC->HC FI 75V Range
4A : 475.00
4504.11258                        Exp= 475.09010   Act= 474.97879
mA                                    HC->HC MI 75V Range 4A
4504.11259                                          -0.111305233305927
mA                -2.2              2.2        Delta : HC->HC MI 75V Range
4A : 475.00
```

4504.11260 950.06176
mA 946.85 953.15 HC->HC FI 75V Range 4A
4504.11261 0.061762000000044
mA -3.15 3.15 Delta : HC->HC FI 75V Range 4A : 950.00
4504.11262 Exp= 950.06176 Act= 949.99320
mA HC->HC MI 75V Range 4A
4504.11263 -0.068563438824981
mA -3.15 3.15 Delta : HC->HC MI 75V Range 4A : 950.00
4504.11264 -949.95390
mA -957.75 -942.25 HC->HC FI 30V Range 10A
4504.11265 0.046098000000029
mA -7.75 7.75 Delta : HC->HC FI 30V Range 10A : -950.00
4504.11266 Exp= -949.95390 Act= -949.94293
mA HC->HC MI 30V Range 10A
4504.11267 0.010973558005617
mA -7.75 7.75 Delta : HC->HC MI 30V Range 10A : -950.00
4504.11268 -475.03935
mA -480.38 -469.63 HC->HC FI 30V Range 10A
4504.11269 -0.039345000000026
mA -5.375 5.375 Delta : HC->HC FI 30V Range 10A : -475.00
4504.11270 Exp= -475.03935 Act= -475.00076
mA HC->HC MI 30V Range 10A
4504.11271 0.038588008525153
mA -5.375 5.375 Delta : HC->HC MI 30V Range 10A : -475.00
4504.11272 -0.06895
mA -3 3 HC->HC FI 30V Range 10A
4504.11273 -0.068949984400000
mA -3 3 Delta : HC->HC FI 30V Range 10A : 0.00
4504.11274 Exp= -0.06895 Act= -0.05746
mA HC->HC MI 30V Range 10A
4504.11275 0.011489254554884
mA -3 3 Delta : HC->HC MI 30V Range 10A : 0.00

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4504.11276                                                    475.16667
mA              469.63              480.38       HC->HC FI 30V Range 10A
4504.11277                                          0.166666999999961
mA              -5.375               5.375       Delta : HC->HC FI 30V Range
10A : 475.00
4504.11278                          Exp= 475.16667   Act= 474.98707
mA                                               HC->HC MI 30V Range 10A
4504.11279                                        -0.179598468290408
mA              -5.375               5.375       Delta : HC->HC MI 30V Range
10A : 475.00
4504.11280                                                    949.99734
mA              942.25              957.75       HC->HC FI 30V Range 10A
4504.11281                                        -0.002657999999997
mA               -7.75                7.75       Delta : HC->HC FI 30V Range
10A : 950.00
4504.11282                          Exp= 949.99734   Act= 949.95511
mA                                               HC->HC MI 30V Range 10A
4504.11283                                        -0.042231362234702
mA               -7.75                7.75       Delta : HC->HC MI 30V Range
10A : 950.00
4504.11284                                                   -949.95390
mA             -954.62             -945.39       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11285                                          0.046098000000029
mA              -4.615               4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11286                          Exp= -949.95390  Act= -949.94293
mA                                               HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11287                                          0.010973558005617
mA              -4.615               4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11288                                                   -475.03935
mA             -478.81             -471.19       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11289                                        -0.039345000000026
mA             -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11290                          Exp= -475.03935  Act= -475.00076
mA                                               HC->HC V/I Mode Current
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Force/Measure with booster check 30V Range 10A
4504.11291                                                    0.038588008525153
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11292                                                          -0.06895
mA                   -3                    3       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11293                                                 -0.068949984400000
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11294                                 Exp= -0.06895    Act= -0.05746
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11295                                                  0.011489254554884
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11296                                                        475.16667
mA               471.19                478.81       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11297                                                  0.166666999999961
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11298                                 Exp= 475.16667   Act= 474.98707
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11299                                                 -0.179598468290408
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11300                                                        949.99734
mA               945.39                954.62       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11301                                                 -0.002657999999997
mA               -4.615                 4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11302                                 Exp= 949.99734   Act= 949.95511
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11303                                                 -0.042231362234702
mA               -4.615                 4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
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4504.11304                                                    -950.02457
mA              -953.15          -946.85       HC->HC FI 30V Range 4A
4504.11305                                          -0.024568999999929
mA                -3.15             3.15       Delta : HC->HC FI 30V Range
4A : -950.00
4504.11306                      Exp= -950.02457  Act= -950.00114
mA                                    HC->HC MI 30V Range 4A
4504.11307                                           0.023433424295376
mA                -3.15             3.15       Delta : HC->HC MI 30V Range
4A : -950.00
4504.11308                                                    -475.04769
mA              -477.2           -472.8        HC->HC FI 30V Range 4A
4504.11309                                          -0.047690000000046
mA                -2.2              2.2        Delta : HC->HC FI 30V Range
4A : -475.00
4504.11310                      Exp= -475.04769  Act= -475.00721
mA                                    HC->HC MI 30V Range 4A
4504.11311                                           0.040479983022522
mA                -2.2              2.2        Delta : HC->HC MI 30V Range
4A : -475.00
4504.11312                                                     0.00138
mA              -1.25             1.25        HC->HC FI 30V Range 4A
4504.11313                                           0.001380840830000
mA              -1.25             1.25        Delta : HC->HC FI 30V Range
4A : 0.00
4504.11314                      Exp= 0.00138     Act= 0.00331
mA                                    HC->HC MI 30V Range 4A
4504.11315                                           0.001931764657590
mA              -1.25             1.25        Delta : HC->HC MI 30V Range
4A : 0.00
4504.11316                                                    475.10037
mA              472.8            477.2        HC->HC FI 30V Range 4A
4504.11317                                           0.100368000000003
mA                -2.2              2.2        Delta : HC->HC FI 30V Range
4A : 475.00
4504.11318                      Exp= 475.10037   Act= 474.99822
mA                                    HC->HC MI 30V Range 4A
4504.11319                                          -0.102145820148678
mA                -2.2              2.2        Delta : HC->HC MI 30V Range
4A : 475.00
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4504.11320                                                    950.06852
mA                946.85          953.15       HC->HC FI 30V Range 4A
4504.11321                                     0.068521000000033
mA                -3.15            3.15       Delta : HC->HC FI 30V Range
4A : 950.00
4504.11322                    Exp= 950.06852   Act= 950.01301
mA                                    HC->HC MI 30V Range 4A
4504.11323                                   -0.055512129924864
mA                -3.15            3.15       Delta : HC->HC MI 30V Range
4A : 950.00
4504.11324                                                   -950.31465
mA              -957.75          -942.25       HC->HC FI 10V Range 10A
4504.11325                                   -0.314652999999907
mA                -7.75            7.75       Delta : HC->HC FI 10V Range
10A : -950.00
4504.11326                    Exp= -950.31465  Act= -949.94666
mA                                    HC->HC MI 10V Range 10A
4504.11327                                    0.367990967423339
mA                -7.75            7.75       Delta : HC->HC MI 10V Range
10A : -950.00
4504.11328                                                   -474.49582
mA              -480.38          -469.63       HC->HC FI 10V Range 10A
4504.11329                                    0.504177999999968
mA               -5.375            5.375       Delta : HC->HC FI 10V Range
10A : -475.00
4504.11330                    Exp= -474.49582  Act= -475.00355
mA                                    HC->HC MI 10V Range 10A
4504.11331                                   -0.507723603012778
mA               -5.375            5.375       Delta : HC->HC MI 10V Range
10A : -475.00
4504.11332                                                    0.04281
mA                   -3                3       HC->HC FI 10V Range 10A
4504.11333                                    0.042806065900000
mA                   -3                3       Delta : HC->HC FI 10V Range
10A : 0.00
4504.11334                    Exp= 0.04281     Act= 0.02611
mA                                    HC->HC MI 10V Range 10A
4504.11335                                   -0.016695320490177
mA                   -3                3       Delta : HC->HC MI 10V Range
10A : 0.00
```

4504.11336 474.75305
mA 469.63 480.38 HC->HC FI 10V Range 10A
4504.11337 -0.246953999999960
mA -5.375 5.375 Delta : HC->HC FI 10V Range 10A : 475.00
4504.11338 Exp= 474.75305 Act= 475.07471
mA HC->HC MI 10V Range 10A
4504.11339 0.321666753248564
mA -5.375 5.375 Delta : HC->HC MI 10V Range 10A : 475.00
4504.11340 950.28426
mA 942.25 957.75 HC->HC FI 10V Range 10A
4504.11341 0.284255000000030
mA -7.75 7.75 Delta : HC->HC FI 10V Range 10A : 950.00
4504.11342 Exp= 950.28426 Act= 949.94269
mA HC->HC MI 10V Range 10A
4504.11343 -0.341566229109617
mA -7.75 7.75 Delta : HC->HC MI 10V Range 10A : 950.00
4504.11344 -950.31465
mA -954.62 -945.39 HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.11345 -0.314652999999907
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11346 Exp= -950.31465 Act= -949.94666
mA HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.11347 0.367990967423339
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11348 -474.49582
mA -478.81 -471.19 HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.11349 0.504177999999968
mA -3.8075 3.8075 Delta : HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11350 Exp= -474.49582 Act= -475.00355
mA HC->HC V/I Mode Current

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Force/Measure with booster check 10V Range 10A
4504.11351                                                  -0.507723603012778
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11352                                                          0.04281
mA                   -3                   3       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11353                                                  0.042806065900000
mA                   -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11354                              Exp= 0.04281     Act= 0.02611
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11355                                                  -0.016695320490177
mA                   -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11356                                                          474.75305
mA               471.19               478.81       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11357                                                  -0.246953999999960
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11358                              Exp= 474.75305   Act= 475.07471
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11359                                                  0.321666753248564
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11360                                                          950.28426
mA               945.39               954.62       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11361                                                  0.284255000000030
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11362                              Exp= 950.28426   Act= 949.94269
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11363                                                  -0.341566229109617
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
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4504.11364                                                    -949.99284
mA              -953.15          -946.85       HC->HC FI 10V Range 4A
4504.11365                                          0.007164000000103
mA                -3.15             3.15       Delta : HC->HC FI 10V Range
4A : -950.00
4504.11366                    Exp= -949.99284  Act= -949.96748
mA                                  HC->HC MI 10V Range 4A
4504.11367                                          0.025351960323405
mA                -3.15             3.15       Delta : HC->HC MI 10V Range
4A : -950.00
4504.11368                                                    -474.99444
mA              -477.2           -472.8        HC->HC FI 10V Range 4A
4504.11369                                          0.005561000000000
mA                -2.2              2.2        Delta : HC->HC FI 10V Range
4A : -475.00
4504.11370                    Exp= -474.99444  Act= -475.00132
mA                                  HC->HC MI 10V Range 4A
4504.11371                                         -0.006878742966990
mA                -2.2              2.2        Delta : HC->HC MI 10V Range
4A : -475.00
4504.11372                                                     -0.01863
mA                -1.25             1.25       HC->HC FI 10V Range 4A
4504.11373                                        -0.018626008800000
mA                -1.25             1.25       Delta : HC->HC FI 10V Range
4A : 0.00
4504.11374                    Exp= -0.01863    Act= -0.01678
mA                                  HC->HC MI 10V Range 4A
4504.11375                                          0.001849150440774
mA                -1.25             1.25       Delta : HC->HC MI 10V Range
4A : 0.00
4504.11376                                                     475.00668
mA               472.8            477.2        HC->HC FI 10V Range 4A
4504.11377                                          0.006682000000012
mA                -2.2              2.2        Delta : HC->HC FI 10V Range
4A : 475.00
4504.11378                    Exp= 475.00668   Act= 474.97695
mA                                  HC->HC MI 10V Range 4A
4504.11379                                         -0.029730679802469
mA                -2.2              2.2        Delta : HC->HC MI 10V Range
4A : 475.00
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4504.11380                                                    950.09884
mA              946.85          953.15      HC->HC FI 10V Range 4A
4504.11381                                    0.098836000000006
mA               -3.15            3.15      Delta : HC->HC FI 10V Range
4A : 950.00
4504.11382                  Exp= 950.09884   Act= 950.00251
mA                                HC->HC MI 10V Range 4A
4504.11383                              -0.096329090064955
mA               -3.15            3.15      Delta : HC->HC MI 10V Range
4A : 950.00
4505.10000                              HC relays verified
DIB HC Relays Check
4505.10001                                                    0
status                                0      DIB HC Relays Check
4505.10002                  Exp= -9.50010    Act= -9.50023
V                                 LC->LC MV PGA 100V Range 10X
4505.10003                              -0.000123301655099
V           -0.008375        0.008375      Delta : LC->LC MV PGA 100V
Range 10X : -9.50
4505.10004                  Exp= -0.00003    Act= -0.00016
V                                 LC->LC MV PGA 100V Range 10X
4505.10005                              -0.000129922195111
V              -0.006           0.006      Delta : LC->LC MV PGA 100V
Range 10X : 0.00
4505.10006                  Exp= 9.50024     Act= 9.50021
V                                 LC->LC MV PGA 100V Range 10X
4505.10007                              -0.000027950410548
V            -0.008375        0.008375      Delta : LC->LC MV PGA 100V
Range 10X : 9.50
4505.10008                  Exp= -0.95036    Act= -0.95044
V                                 LC->LC MV PGA 100V Range 100X
4505.10009                              -0.000076188666150
V          -0.0062375       0.0062375      Delta : LC->LC MV PGA 100V
Range 100X : -0.95
4505.10010                  Exp= -0.00003    Act= -0.00011
V                                 LC->LC MV PGA 100V Range 100X
4505.10011                              -0.000078891546778
V              -0.006           0.006      Delta : LC->LC MV PGA 100V
Range 100X : 0.00
4505.10012                  Exp= 0.95060     Act= 0.95052
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V                                                    LC->LC MV PGA 100V Range 100X
4505.10013                                                  -0.000083709449726
V          -0.0062375            0.0062375       Delta : LC->LC MV PGA 100V
Range 100X : 0.95
4505.10014                              Exp= -2.84993    Act= -2.84994
V                                                    LC->LC MV PGA 30V Range 10X
4505.10015                                                  -0.000012754511698
V          -0.0027125            0.0027125       Delta : LC->LC MV PGA 30V Range
10X : -2.85
4505.10016                              Exp= -0.00001    Act= -0.00002
V                                                    LC->LC MV PGA 30V Range 10X
4505.10017                                                  -0.000007536460938
V               -0.002                0.002       Delta : LC->LC MV PGA 30V Range
10X : 0.00
4505.10018                              Exp= 2.85021     Act= 2.85022
V                                                    LC->LC MV PGA 30V Range 10X
4505.10019                                                   0.000017452991413
V          -0.0027125            0.0027125       Delta : LC->LC MV PGA 30V Range
10X : 2.85
4505.10020                              Exp= -0.28496    Act= -0.28496
V                                                    LC->LC MV PGA 30V Range 100X
4505.10021                                                  -0.000002081921938
V          -0.00207125           0.00207125       Delta : LC->LC MV PGA 30V Range
100X : -0.29
4505.10022                              Exp= -0.00001    Act= -0.00001
V                                                    LC->LC MV PGA 30V Range 100X
4505.10023                                                  -0.000005454934577
V               -0.002                0.002       Delta : LC->LC MV PGA 30V Range
100X : 0.00
4505.10024                              Exp= 0.28527     Act= 0.28525
V                                                    LC->LC MV PGA 30V Range 100X
4505.10025                                                  -0.000022199808554
V          -0.00207125           0.00207125       Delta : LC->LC MV PGA 30V Range
100X : 0.29
4505.10026                              Exp= -0.94997    Act= -0.94998
V                                                    LC->LC MV PGA 10V Range 10X
4505.10027                                                  -0.000007230261702
V          -0.0008375            0.0008375       Delta : LC->LC MV PGA 10V Range
10X : -0.95
4505.10028                              Exp= 0.00006     Act= 0.00005
```

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V                                                    LC->LC MV PGA 10V Range 10X
4505.10029                                                  -0.000009386589570
V              -0.0006                0.0006         Delta : LC->LC MV PGA 10V Range
10X : 0.00
4505.10030                                  Exp= 0.95006     Act= 0.95006
V                                                    LC->LC MV PGA 10V Range 10X
4505.10031                                                   0.000001856338601
V           -0.0008375             0.0008375         Delta : LC->LC MV PGA 10V Range
10X : 0.95
4505.10032                                  Exp= -0.09502    Act= -0.09502
V                                                    LC->LC MV PGA 10V Range 100X
4505.10033                                                  -0.000004016547792
V           -0.00062375            0.00062375        Delta : LC->LC MV PGA 10V Range
100X : -0.10
4505.10034                                  Exp= 0.00006     Act= 0.00005
V                                                    LC->LC MV PGA 10V Range 100X
4505.10035                                                  -0.000004358477449
V              -0.0006                0.0006         Delta : LC->LC MV PGA 10V Range
100X : 0.00
4505.10036                                  Exp= 0.09503     Act= 0.09504
V                                                    LC->LC MV PGA 10V Range 100X
4505.10037                                                   0.000000712419383
V           -0.00062375            0.00062375        Delta : LC->LC MV PGA 10V Range
100X : 0.10
4505.10038                                  Exp= -6.99972    Act= -6.99976
V                                                    HC->HC MV PGA 75V Range 10X
4505.10039                                                  -0.000043904515776
V             -0.00775               0.00775         Delta : HC->HC MV PGA 75V Range
10X : -7.00
4505.10040                                  Exp= -0.00016    Act= -0.00010
V                                                    HC->HC MV PGA 75V Range 10X
4505.10041                                                   0.000061573621297
V               -0.006                 0.006         Delta : HC->HC MV PGA 75V Range
10X : 0.00
4505.10042                                  Exp= 7.00040     Act= 7.00043
V                                                    HC->HC MV PGA 75V Range 10X
4505.10043                                                   0.000033964292193
V             -0.00775               0.00775         Delta : HC->HC MV PGA 75V Range
10X : 7.00
4505.10044                                  Exp= -0.69998    Act= -0.69994
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V                                                    HC->HC MV PGA 75V Range 100X
4505.10045                                                  0.000033978816986
V            -0.003175              0.003175        Delta : HC->HC MV PGA 75V Range
100X : -0.70
4505.10046                                  Exp= -0.00018    Act= -0.00010
V                                                    HC->HC MV PGA 75V Range 100X
4505.10047                                                  0.000078624381754
V               -0.003                 0.003        Delta : HC->HC MV PGA 75V Range
100X : 0.00
4505.10048                                  Exp= 0.69997     Act= 0.69994
V                                                    HC->HC MV PGA 75V Range 100X
4505.10049                                                 -0.000030202622607
V            -0.003175              0.003175        Delta : HC->HC MV PGA 75V Range
100X : 0.70
4505.10050                                  Exp= -2.79993    Act= -2.79995
V                                                    HC->HC MV PGA 30V Range 10X
4505.10051                                                 -0.000024653102056
V              -0.0027                0.0027        Delta : HC->HC MV PGA 30V Range
10X : -2.80
4505.10052                                  Exp= -0.00006    Act= -0.00006
V                                                    HC->HC MV PGA 30V Range 10X
4505.10053                                                 -0.000002910811187
V               -0.002                 0.002        Delta : HC->HC MV PGA 30V Range
10X : 0.00
4505.10054                                  Exp= 2.80011     Act= 2.80013
V                                                    HC->HC MV PGA 30V Range 10X
4505.10055                                                  0.000018772446123
V              -0.0027                0.0027        Delta : HC->HC MV PGA 30V Range
10X : 2.80
4505.10056                                  Exp= -0.28013    Act= -0.28013
V                                                    HC->HC MV PGA 30V Range 100X
4505.10057                                                 -0.000000654382416
V             -0.00107               0.00107        Delta : HC->HC MV PGA 30V Range
100X : -0.28
4505.10058                                  Exp= -0.00007    Act= -0.00005
V                                                    HC->HC MV PGA 30V Range 100X
4505.10059                                                  0.000019561051292
V               -0.001                 0.001        Delta : HC->HC MV PGA 30V Range
100X : 0.00
4505.10060                                  Exp= 0.28009     Act= 0.28010
```

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V                                                    HC->HC MV PGA 30V Range 100X
4505.10061                                                    0.000008005552587
V              -0.00107              0.00107        Delta : HC->HC MV PGA 30V Range
100X : 0.28
4505.10062                                  Exp= -0.85002    Act= -0.85004
V                                                    HC->HC MV PGA 10V Range 10X
4505.10063                                                   -0.000016992817213
V           -0.0008125            0.0008125        Delta : HC->HC MV PGA 10V Range
10X : -0.85
4505.10064                                  Exp= 0.00002     Act= 0.00002
V                                                    HC->HC MV PGA 10V Range 10X
4505.10065                                                   -0.000004769303823
V               -0.0006               0.0006        Delta : HC->HC MV PGA 10V Range
10X : 0.00
4505.10066                                  Exp= 0.85004     Act= 0.85003
V                                                    HC->HC MV PGA 10V Range 10X
4505.10067                                                   -0.000009873045100
V           -0.0008125            0.0008125        Delta : HC->HC MV PGA 10V Range
10X : 0.85
4505.10068                                  Exp= -0.08504    Act= -0.08505
V                                                    HC->HC MV PGA 10V Range 100X
4505.10069                                                   -0.000012209036608
V          -0.00032125           0.00032125        Delta : HC->HC MV PGA 10V Range
100X : -0.09
4505.10070                                  Exp= 0.00002     Act= 0.00001
V                                                    HC->HC MV PGA 10V Range 100X
4505.10071                                                   -0.000009815162178
V                -0.0003               0.0003        Delta : HC->HC MV PGA 10V Range
100X : 0.00
4505.10072                                  Exp= 0.08506     Act= 0.08506
V                                                    HC->HC MV PGA 10V Range 100X
4505.10073                                                    0.000001196899659
V          -0.00032125           0.00032125        Delta : HC->HC MV PGA 10V Range
100X : 0.09
4506.10000                                                  HC relays verified
DIB HC Relays Check
4506.10001                                                                     0
status                                            0       DIB HC Relays Check
4506.10002                                  Exp= -0.79995    Act= -0.79996
V                                                    MV Pedestal LC 0V Pedestal
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4506.10003                                                  -0.000011324967061
V             -0.00033          0.00033       Delta : MV Pedestal LC 0V
Pedestal : -0.80
4506.10004                  Exp= -0.39990    Act= -0.39990
V                                   MV Pedestal LC 0V Pedestal
4506.10005                                    0.000005997361852
V             -0.00029          0.00029       Delta : MV Pedestal LC 0V
Pedestal : -0.40
4506.10006                  Exp= 0.00011     Act= 0.00009
V                                   MV Pedestal LC 0V Pedestal
4506.10007                                   -0.000015722388865
V             -0.00025          0.00025       Delta : MV Pedestal LC 0V
Pedestal : 0.00
4506.10008                  Exp= 0.40011     Act= 0.40012
V                                   MV Pedestal LC 0V Pedestal
4506.10009                                    0.000003627911505
V             -0.00029          0.00029       Delta : MV Pedestal LC 0V
Pedestal : 0.40
4506.10010                  Exp= 0.80016     Act= 0.80017
V                                   MV Pedestal LC 0V Pedestal
4506.10011                                    0.000008970094566
V             -0.00033          0.00033       Delta : MV Pedestal LC 0V
Pedestal : 0.80
4506.10012                  Exp= 0.30008     Act= 0.30006
V                                   MV Pedestal LC 1V Pedestal
4506.10013                                   -0.000022424150000
V             -0.00028          0.00028       Delta : MV Pedestal LC 1V
Pedestal : 0.30
4506.10014                  Exp= 0.60017     Act= 0.60016
V                                   MV Pedestal LC 1V Pedestal
4506.10015                                   -0.000010550829501
V             -0.00031          0.00031       Delta : MV Pedestal LC 1V
Pedestal : 0.60
4506.10016                  Exp= 1.00017     Act= 1.00017
V                                   MV Pedestal LC 1V Pedestal
4506.10017                                   -0.000001377851145
V             -0.00035          0.00035       Delta : MV Pedestal LC 1V
Pedestal : 1.00
4506.10018                  Exp= 1.30015     Act= 1.30014
V                                   MV Pedestal LC 1V Pedestal
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4506.10019                                                  -0.000005664100957
V             -0.00038          0.00038       Delta : MV Pedestal LC 1V
Pedestal : 1.30
4506.10020                Exp= 1.70020     Act= 1.70020
V                                 MV Pedestal LC 1V Pedestal
4506.10021                                         -0.000004549460059
V             -0.00042          0.00042       Delta : MV Pedestal LC 1V
Pedestal : 1.70
4506.10022                Exp= 2.40016     Act= 2.40017
V                                 MV Pedestal LC 3V Pedestal
4506.10023                                          0.000004585719757
V             -0.00049          0.00049       Delta : MV Pedestal LC 3V
Pedestal : 2.40
4506.10024                Exp= 2.70022     Act= 2.70021
V                                 MV Pedestal LC 3V Pedestal
4506.10025                                         -0.000010286632252
V             -0.00052          0.00052       Delta : MV Pedestal LC 3V
Pedestal : 2.70
4506.10026                Exp= 3.00024     Act= 3.00022
V                                 MV Pedestal LC 3V Pedestal
4506.10027                                         -0.000020003527324
V             -0.00055          0.00055       Delta : MV Pedestal LC 3V
Pedestal : 3.00
4506.10028                Exp= 3.30026     Act= 3.30025
V                                 MV Pedestal LC 3V Pedestal
4506.10029                                         -0.000007717076764
V             -0.00058          0.00058       Delta : MV Pedestal LC 3V
Pedestal : 3.30
4506.10030                Exp= 3.60027     Act= 3.60027
V                                 MV Pedestal LC 3V Pedestal
4506.10031                                         -0.000005271684438
V             -0.00061          0.00061       Delta : MV Pedestal LC 3V
Pedestal : 3.60
4506.10032                Exp= 4.30025     Act= 4.30026
V                                 MV Pedestal LC 5V Pedestal
4506.10033                                          0.000007227352043
V             -0.00068          0.00068       Delta : MV Pedestal LC 5V
Pedestal : 4.30
4506.10034                Exp= 4.60025     Act= 4.60026
V                                 MV Pedestal LC 5V Pedestal
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4506.10035                                                  0.000017353611813
V             -0.00071            0.00071       Delta : MV Pedestal LC 5V
Pedestal : 4.60
4506.10036                          Exp= 5.00026     Act= 5.00027
V                                         MV Pedestal LC 5V Pedestal
4506.10037                                                  0.000009521853673
V             -0.00075            0.00075       Delta : MV Pedestal LC 5V
Pedestal : 5.00
4506.10038                          Exp= 5.30031     Act= 5.30033
V                                         MV Pedestal LC 5V Pedestal
4506.10039                                                  0.000013011956826
V             -0.00078            0.00078       Delta : MV Pedestal LC 5V
Pedestal : 5.30
4506.10040                          Exp= 5.70027     Act= 5.70029
V                                         MV Pedestal LC 5V Pedestal
4506.10041                                                  0.000021185287629
V             -0.00082            0.00082       Delta : MV Pedestal LC 5V
Pedestal : 5.70
4507.11000                                      HC relays verified
DIB HC Relays Check
4507.11001                                                              0
status                                    0       DIB HC Relays Check
4507.11002                          Exp= -47.48817   Act= -47.48662
mA                                        LC->LC MI PGA 100V Range 500mA
10X
4507.11003                                                  0.001552436830345
mA             -0.08375             0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : -47.50
4507.11004                          Exp= 0.01035     Act= 0.01166
mA                                        LC->LC MI PGA 100V Range 500mA
10X
4507.11005                                                  0.001315359816460
mA                -0.06                0.06       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 0.00
4507.11006                          Exp= 47.50928    Act= 47.51008
mA                                        LC->LC MI PGA 100V Range 500mA
10X
4507.11007                                                  0.000800519866061
mA             -0.08375             0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 47.50
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4507.11008 Exp= -4.74214 Act= -4.74173
mA LC->LC MI PGA 100V Range 500mA
100X
4507.11009 0.000413152466925
mA -0.062375 0.062375 Delta : LC->LC MI PGA 100V
Range 500mA 100X : -4.75
4507.11010 Exp= 0.01119 Act= 0.01089
mA LC->LC MI PGA 100V Range 500mA
100X
4507.11011 -0.000293609970676
mA -0.06 0.06 Delta : LC->LC MI PGA 100V
Range 500mA 100X : 0.00
4507.11012 Exp= 4.76096 Act= 4.76138
mA LC->LC MI PGA 100V Range 500mA
100X
4507.11013 0.000422542106998
mA -0.062375 0.062375 Delta : LC->LC MI PGA 100V
Range 500mA 100X : 4.75
4507.11014 Exp= -94.99270 Act= -94.99063
mA LC->LC MI PGA 30V Range 1A 10X
4507.11015 0.002078182240751
mA -0.1075 0.1075 Delta : LC->LC MI PGA 30V
Range 1A 10X : -95.00
4507.11016 Exp= 0.00618 Act= 0.00958
mA LC->LC MI PGA 30V Range 1A 10X
4507.11017 0.003398031979919
mA -0.06 0.06 Delta : LC->LC MI PGA 30V
Range 1A 10X : 0.00
4507.11018 Exp= 95.00765 Act= 95.01073
mA LC->LC MI PGA 30V Range 1A 10X
4507.11019 0.003078365503256
mA -0.1075 0.1075 Delta : LC->LC MI PGA 30V
Range 1A 10X : 95.00
4507.11020 Exp= -9.49761 Act= -9.49618
mA LC->LC MI PGA 30V Range 1A
100X
4507.11021 0.001434923386091
mA -0.06475 0.06475 Delta : LC->LC MI PGA 30V
Range 1A 100X : -9.50
4507.11022 Exp= 0.00755 Act= 0.00730

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mA                                                  LC->LC MI PGA 30V Range 1A
100X
4507.11023                                                  -0.000248676342351
mA                -0.06                0.06       Delta : LC->LC MI PGA 30V
Range 1A 100X : 0.00
4507.11024                                  Exp= 9.51427     Act= 9.51527
mA                                                  LC->LC MI PGA 30V Range 1A
100X
4507.11025                                                   0.001001405673088
mA             -0.06475             0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : 9.50
4507.11026                                  Exp= -9.49937    Act= -9.49929
mA                                                  LC->LC MI PGA 30V Range 100mA
10X
4507.11027                                                   0.000079876033940
mA             -0.01075             0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : -9.50
4507.11028                                  Exp= 0.00015     Act= 0.00020
mA                                                  LC->LC MI PGA 30V Range 100mA
10X
4507.11029                                                   0.000052036356833
mA               -0.006               0.006       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 0.00
4507.11030                                  Exp= 9.50071     Act= 9.50071
mA                                                  LC->LC MI PGA 30V Range 100mA
10X
4507.11031                                                   0.000006673542625
mA             -0.01075             0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 9.50
4507.11032                                  Exp= -949.83284  Act= -949.72086
uA                                                  LC->LC MI PGA 30V Range 100mA
100X
4507.11033                                                   0.111987984991742
uA               -6.475               6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : -950.00
4507.11034                                  Exp= 0.20637     Act= 0.25361
uA                                                  LC->LC MI PGA 30V Range 100mA
100X
4507.11035                                                   0.047249238706167
uA                  -6                    6       Delta : LC->LC MI PGA 30V
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Range 100mA 100X : 0.00
4507.11036                                  Exp= 951.31571   Act= 951.27556
uA                                                  LC->LC MI PGA 30V Range 100mA
100X
4507.11037                                                -0.040154196227149
uA                -6.475                6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 950.00
4507.11038                                  Exp= -949.88299  Act= -949.88256
uA                                                  LC->LC MI PGA 30V Range 10mA
10X
4507.11039                                                 0.000430739287822
uA                -1.075                1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : -950.00
4507.11040                                  Exp= 0.05994     Act= 0.06821
uA                                                  LC->LC MI PGA 30V Range 10mA
10X
4507.11041                                                 0.008272719973719
uA                  -0.6                  0.6       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 0.00
4507.11042                                  Exp= 950.03171   Act= 950.03648
uA                                                  LC->LC MI PGA 30V Range 10mA
10X
4507.11043                                                 0.004765029221971
uA                -1.075                1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 950.00
4507.11044                                  Exp= -189.99487  Act= -189.99529
mA                                                  LC->LC MI PGA 10V Range 2A 10X
4507.11045                                                -0.000419517432618
mA                  -0.22                 0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : -190.00
4507.11046                                  Exp= -0.00721    Act= -0.00906
mA                                                  LC->LC MI PGA 10V Range 2A 10X
4507.11047                                                -0.001844453616282
mA                -0.125                0.125       Delta : LC->LC MI PGA 10V
Range 2A 10X : 0.00
4507.11048                                  Exp= 189.99579   Act= 189.99874
mA                                                  LC->LC MI PGA 10V Range 2A 10X
4507.11049                                                 0.002942317630612
mA                  -0.22                 0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : 190.00
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4507.11050                                  Exp= -18.99294   Act= -18.99274
mA                                                LC->LC MI PGA 10V Range 2A
100X
4507.11051                                                   0.000206086437419
mA              -0.1345             0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : -19.00
4507.11052                                  Exp= 0.00047     Act= -0.00053
mA                                                LC->LC MI PGA 10V Range 2A
100X
4507.11053                                                  -0.000996503826998
mA               -0.125              0.125       Delta : LC->LC MI PGA 10V
Range 2A 100X : 0.00
4507.11054                                  Exp= 19.01700    Act= 19.01641
mA                                                LC->LC MI PGA 10V Range 2A
100X
4507.11055                                                  -0.000591485479511
mA              -0.1345             0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : 19.00
4507.11056                                  Exp= -18.99052   Act= -18.99041
mA                                                LC->LC MI PGA 10V Range 200mA
10X
4507.11057                                                   0.000117014740969
mA              -0.0215             0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : -19.00
4507.11058                                  Exp= 0.00874     Act= 0.00869
mA                                                LC->LC MI PGA 10V Range 200mA
10X
4507.11059                                                  -0.000055776657602
mA               -0.012              0.012       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 0.00
4507.11060                                  Exp= 19.00813    Act= 19.00821
mA                                                LC->LC MI PGA 10V Range 200mA
10X
4507.11061                                                   0.000078083800403
mA              -0.0215             0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 19.00
4507.11062                                  Exp= -1.89091    Act= -1.89076
mA                                                LC->LC MI PGA 10V Range 200mA
100X
4507.11063                                                   0.000155749664535
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mA              -0.01295              0.01295       Delta : LC->LC MI PGA 10V
Range 200mA 100X : -1.90
4507.11064                                Exp= 0.00895     Act= 0.00916
mA                                                 LC->LC MI PGA 10V Range 200mA
100X
4507.11065                                                 0.000213795102505
mA                -0.012                0.012       Delta : LC->LC MI PGA 10V
Range 200mA 100X : 0.00
4507.11066                                Exp= 1.91106     Act= 1.91120
mA                                                 LC->LC MI PGA 10V Range 200mA
100X
4507.11067                                                 0.000138299531595
mA              -0.01295              0.01295       Delta : LC->LC MI PGA 10V
Range 200mA 100X : 1.90
4507.11068                                Exp= -1.89944    Act= -1.89944
mA                                                 LC->LC MI PGA 10V Range 20mA
10X
4507.11069                                                -0.000008551347649
mA              -0.00215              0.00215       Delta : LC->LC MI PGA 10V
Range 20mA 10X : -1.90
4507.11070                                Exp= 0.00065     Act= 0.00066
mA                                                 LC->LC MI PGA 10V Range 20mA
10X
4507.11071                                                 0.000012673565724
mA               -0.0012               0.0012       Delta : LC->LC MI PGA 10V
Range 20mA 10X : 0.00
4507.11072                                Exp= 1.90058     Act= 1.90061
mA                                                 LC->LC MI PGA 10V Range 20mA
10X
4507.11073                                                 0.000030014805245
mA              -0.00215              0.00215       Delta : LC->LC MI PGA 10V
Range 20mA 10X : 1.90
4507.11074                                Exp= -668.70278  Act= -668.39935
mA                                                 HC->HC MI PGA 75V Range 100A
10X
4507.11075                                                 0.303426941301382
mA               -18.325               18.325       Delta : HC->HC MI PGA 75V
Range 100A 10X : -665.00
4507.11076                                Exp= -5.53901    Act= -5.21908
mA                                                 HC->HC MI PGA 75V Range 100A
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10X
4507.11077                                                    0.319937078011717
mA                  -15                 15       Delta : HC->HC MI PGA 75V
Range 100A 10X : 0.00
4507.11078                                  Exp= 657.99052   Act= 658.12345
mA                                                HC->HC MI PGA 75V Range 100A
10X
4507.11079                                                    0.132931129471217
mA              -18.325             18.325       Delta : HC->HC MI PGA 75V
Range 100A 10X : 665.00
4507.11080                                  Exp= -668.70725  Act= -668.60306
mA                                                HC->HC MI PGA 75V Range 100A
100X
4507.11081                                                    0.104194325352182
mA              -10.825             10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : -665.00
4507.11082                                  Exp= -5.50856    Act= -5.30804
mA                                                HC->HC MI PGA 75V Range 100A
100X
4507.11083                                                    0.200518874212590
mA                -7.5               7.5       Delta : HC->HC MI PGA 75V
Range 100A 100X : 0.00
4507.11084                                  Exp= 657.86806   Act= 658.20482
mA                                                HC->HC MI PGA 75V Range 100A
100X
4507.11085                                                    0.336767895650610
mA              -10.825             10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : 665.00
4507.11086                                  Exp= -665.46106  Act= -665.52105
mA                                                HC->HC MI PGA 75V Range 10A
10X
4507.11087                                                   -0.059991428447688
mA               -4.825              4.825       Delta : HC->HC MI PGA 75V
Range 10A 10X : -665.00
4507.11088                                  Exp= 0.05915     Act= -0.00760
mA                                                HC->HC MI PGA 75V Range 10A
10X
4507.11089                                                   -0.066744711683470
mA                -1.5                1.5       Delta : HC->HC MI PGA 75V
Range 10A 10X : 0.00
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4507.11090 Exp= 665.38897 Act= 665.39586
mA HC->HC MI PGA 75V Range 10A
10X
4507.11091 0.006883475370728
mA -4.825 4.825 Delta : HC->HC MI PGA 75V
Range 10A 10X : 665.00
4507.11092 Exp= -665.46106 Act= -665.52105
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11093 -0.059991428447688
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : -665.00
4507.11094 Exp= 0.05915 Act= -0.00760
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11095 -0.066744711683470
mA -1.5 1.5 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 0.00
4507.11096 Exp= 665.38897 Act= 665.39586
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11097 0.006883475370728
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 665.00
4507.11098 Exp= -66.49571 Act= -66.48675
mA HC->HC MI PGA 75V Range 10A
100X
4507.11099 0.008955087560892
mA -1.0825 1.0825 Delta : HC->HC MI PGA 75V
Range 10A 100X : -66.50
4507.11100 Exp= -0.04956 Act= -0.05162
mA HC->HC MI PGA 75V Range 10A
100X
4507.11101 -0.002057355601243
mA -0.75 0.75 Delta : HC->HC MI PGA 75V
Range 10A 100X : 0.00
4507.11102 Exp= 66.28371 Act= 66.28049
mA HC->HC MI PGA 75V Range 10A
100X
4507.11103 -0.003225624793558

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mA              -1.0825              1.0825       Delta : HC->HC MI PGA 75V
Range 10A 100X : 66.50
4507.11104                                  Exp= -66.49571   Act= -66.48675
mA                                                HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11105                                                  0.008955087560892
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : -66.50
4507.11106                                  Exp= -0.04956    Act= -0.05162
mA                                                HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11107                                                 -0.002057355601243
mA                -0.75                0.75       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 0.00
4507.11108                                  Exp= 66.28371    Act= 66.28049
mA                                                HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11109                                                 -0.003225624793558
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 66.50
4507.11110                                  Exp= -266.10091  Act= -266.08144
mA                                                HC->HC MI PGA 75V Range 4A 10X
4507.11111                                                  0.019475637677090
mA               -1.157               1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : -266.00
4507.11112                                  Exp= -0.02555    Act= -0.02190
mA                                                HC->HC MI PGA 75V Range 4A 10X
4507.11113                                                  0.003648245925056
mA               -0.625               0.625       Delta : HC->HC MI PGA 75V
Range 4A 10X : 0.00
4507.11114                                  Exp= 266.05293   Act= 266.02486
mA                                                HC->HC MI PGA 75V Range 4A 10X
4507.11115                                                 -0.028075202642185
mA               -1.157               1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : 266.00
4507.11116                                  Exp= -26.61007   Act= -26.61435
mA                                                HC->HC MI PGA 75V Range 4A
100X
4507.11117                                                 -0.004284129299229
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 75V
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Range 4A 100X : -26.60
4507.11118                                  Exp= -0.01750    Act= -0.02741
mA                                                  HC->HC MI PGA 75V Range 4A
100X
4507.11119                                                  -0.009903918562820
mA                -0.312              0.312       Delta : HC->HC MI PGA 75V
Range 4A 100X : 0.00
4507.11120                                  Exp= 26.55887    Act= 26.54955
mA                                                  HC->HC MI PGA 75V Range 4A
100X
4507.11121                                                  -0.009315880954549
mA               -0.3652             0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : 26.60
4507.11122                                  Exp= -668.52248  Act= -668.41467
mA                                                  HC->HC MI PGA 30V Range 100A
10X
4507.11123                                                   0.107808196254155
mA               -18.325             18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : -665.00
4507.11124                                  Exp= -5.40929    Act= -5.26063
mA                                                  HC->HC MI PGA 30V Range 100A
10X
4507.11125                                                    0.148664019309793
mA                   -15                 15       Delta : HC->HC MI PGA 30V
Range 100A 10X : 0.00
4507.11126                                  Exp= 658.13285   Act= 658.12933
mA                                                  HC->HC MI PGA 30V Range 100A
10X
4507.11127                                                  -0.003520934098219
mA               -18.325             18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : 665.00
4507.11128                                  Exp= -668.70645  Act= -668.45091
mA                                                  HC->HC MI PGA 30V Range 100A
100X
4507.11129                                                    0.255539022928019
mA               -10.825             10.825       Delta : HC->HC MI PGA 30V
Range 100A 100X : -665.00
4507.11130                                  Exp= -5.58608    Act= -5.17401
mA                                                  HC->HC MI PGA 30V Range 100A
100X
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4507.11131 0.412064759881712
mA -7.5 7.5 Delta : HC->HC MI PGA 30V
Range 100A 100X : 0.00
4507.11132 Exp= 657.98473 Act= 658.34136
mA HC->HC MI PGA 30V Range 100A
100X
4507.11133 0.356623802183549
mA -10.825 10.825 Delta : HC->HC MI PGA 30V
Range 100A 100X : 665.00
4507.11134 Exp= -665.41585 Act= -665.50600
mA HC->HC MI PGA 30V Range 10A
10X
4507.11135 -0.090148742516703
mA -4.825 4.825 Delta : HC->HC MI PGA 30V
Range 10A 10X : -665.00
4507.11136 Exp= -0.01860 Act= -0.05704
mA HC->HC MI PGA 30V Range 10A
10X
4507.11137 -0.038432694478174
mA -1.5 1.5 Delta : HC->HC MI PGA 30V
Range 10A 10X : 0.00
4507.11138 Exp= 665.41505 Act= 665.43324
mA HC->HC MI PGA 30V Range 10A
10X
4507.11139 0.018189930340213
mA -4.825 4.825 Delta : HC->HC MI PGA 30V
Range 10A 10X : 665.00
4507.11140 Exp= -665.41585 Act= -665.50600
mA HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11141 -0.090148742516703
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : -665.00
4507.11142 Exp= -0.01860 Act= -0.05704
mA HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11143 -0.038432694478174
mA -1.5 1.5 Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 0.00
4507.11144 Exp= 665.41505 Act= 665.43324

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mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11145                                                  0.018189930340213
mA              -2.6305               2.6305        Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 665.00
4507.11146                                  Exp= -66.45437    Act= -66.46199
mA                                                  HC->HC MI PGA 30V Range 10A
100X
4507.11147                                                  -0.007616058136762
mA              -1.0825               1.0825        Delta : HC->HC MI PGA 30V
Range 10A 100X : -66.50
4507.11148                                  Exp= -0.08688     Act= -0.10242
mA                                                  HC->HC MI PGA 30V Range 10A
100X
4507.11149                                                  -0.015543641725257
mA                -0.75                 0.75        Delta : HC->HC MI PGA 30V
Range 10A 100X : 0.00
4507.11150                                  Exp= 66.32649     Act= 66.31033
mA                                                  HC->HC MI PGA 30V Range 10A
100X
4507.11151                                                  -0.016160331130720
mA              -1.0825               1.0825        Delta : HC->HC MI PGA 30V
Range 10A 100X : 66.50
4507.11152                                  Exp= -66.45437    Act= -66.46199
mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11153                                                  -0.007616058136762
mA            -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : -66.50
4507.11154                                  Exp= -0.08688     Act= -0.10242
mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11155                                                  -0.015543641725257
mA                -0.75                 0.75        Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 0.00
4507.11156                                  Exp= 66.32649     Act= 66.31033
mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11157                                                  -0.016160331130720
mA              -0.86305              0.86305       Delta : HC->HC MI With booster
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improved cal check 30V Range 10A 100X : 66.50
4507.11158                                  Exp= -266.11717  Act= -266.11989
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11159                                                -0.002718251894976
mA              -1.157              1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : -266.00
4507.11160                                  Exp= -0.00875    Act= -0.01263
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11161                                                -0.003889431351739
mA              -0.625              0.625       Delta : HC->HC MI PGA 30V
Range 4A 10X : 0.00
4507.11162                                  Exp= 266.05995   Act= 266.04992
mA                                                HC->HC MI PGA 30V Range 4A 10X
4507.11163                                                -0.010025675406439
mA              -1.157              1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : 266.00
4507.11164                                  Exp= -26.59437   Act= -26.60101
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11165                                                -0.006640707679438
mA              -0.3652             0.3652      Delta : HC->HC MI PGA 30V
Range 4A 100X : -26.60
4507.11166                                  Exp= -0.00682    Act= -0.01564
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11167                                                -0.008816045984608
mA              -0.312              0.312       Delta : HC->HC MI PGA 30V
Range 4A 100X : 0.00
4507.11168                                  Exp= 26.53975    Act= 26.53115
mA                                                HC->HC MI PGA 30V Range 4A
100X
4507.11169                                                -0.008593651388139
mA              -0.3652             0.3652      Delta : HC->HC MI PGA 30V
Range 4A 100X : 26.60
4507.11170                                  Exp= -668.52465  Act= -668.49797
mA                                                HC->HC MI PGA 10V Range 100A
10X
4507.11171                                                 0.026686829290952
mA              -18.325             18.325      Delta : HC->HC MI PGA 10V
Range 100A 10X : -665.00
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4507.11172 Exp= -5.46548 Act= -5.20370
mA HC->HC MI PGA 10V Range 100A
10X
4507.11173 0.261782549670491
mA -15 15 Delta : HC->HC MI PGA 10V
Range 100A 10X : 0.00
4507.11174 Exp= 657.99487 Act= 658.26164
mA HC->HC MI PGA 10V Range 100A
10X
4507.11175 0.266772331564539
mA -18.325 18.325 Delta : HC->HC MI PGA 10V
Range 100A 10X : 665.00
4507.11176 Exp= -668.75643 Act= -668.57167
mA HC->HC MI PGA 10V Range 100A
100X
4507.11177 0.184750088903911
mA -10.825 10.825 Delta : HC->HC MI PGA 10V
Range 100A 100X : -665.00
4507.11178 Exp= -5.61799 Act= -5.39724
mA HC->HC MI PGA 10V Range 100A
100X
4507.11179 0.220752861789820
mA -7.5 7.5 Delta : HC->HC MI PGA 10V
Range 100A 100X : 0.00
4507.11180 Exp= 657.85262 Act= 658.07381
mA HC->HC MI PGA 10V Range 100A
100X
4507.11181 0.221189562454811
mA -10.825 10.825 Delta : HC->HC MI PGA 10V
Range 100A 100X : 665.00
4507.11182 Exp= -664.73663 Act= -664.76243
mA HC->HC MI PGA 10V Range 10A
10X
4507.11183 -0.025805177263464
mA -4.825 4.825 Delta : HC->HC MI PGA 10V
Range 10A 10X : -665.00
4507.11184 Exp= 0.04307 Act= 0.11651
mA HC->HC MI PGA 10V Range 10A
10X
4507.11185 0.073437032394048

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mA                  -1.5                  1.5       Delta : HC->HC MI PGA 10V
Range 10A 10X : 0.00
4507.11186                                Exp= 664.98390   Act= 664.88708
mA                                                  HC->HC MI PGA 10V Range 10A
10X
4507.11187                                                  -0.096814928988920
mA                -4.825                4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : 665.00
4507.11188                                Exp= -664.73663  Act= -664.76243
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11189                                                  -0.025805177263464
mA              -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : -665.00
4507.11190                                Exp= 0.04307     Act= 0.11651
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11191                                                   0.073437032394048
mA                  -1.5                  1.5       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 0.00
4507.11192                                Exp= 664.98390   Act= 664.88708
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11193                                                  -0.096814928988920
mA              -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 665.00
4507.11194                                Exp= -66.37486   Act= -66.38066
mA                                                  HC->HC MI PGA 10V Range 10A
100X
4507.11195                                                  -0.005804946632665
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 10V
Range 10A 100X : -66.50
4507.11196                                Exp= 0.05327     Act= 0.03489
mA                                                  HC->HC MI PGA 10V Range 10A
100X
4507.11197                                                  -0.018377005863880
mA                -0.75                 0.75       Delta : HC->HC MI PGA 10V
Range 10A 100X : 0.00
4507.11198                                Exp= 66.37658    Act= 66.35450
mA                                                  HC->HC MI PGA 10V Range 10A
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100X
4507.11199                                                  -0.022074444398541
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 10V
Range 10A 100X : 66.50
4507.11200                                  Exp= -66.37486   Act= -66.38066
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11201                                                  -0.005804946632665
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : -66.50
4507.11202                                  Exp= 0.05327     Act= 0.03489
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11203                                                  -0.018377005863880
mA                -0.75                 0.75       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 0.00
4507.11204                                  Exp= 66.37658    Act= 66.35450
mA                                                  HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11205                                                  -0.022074444398541
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 66.50
4507.11206                                  Exp= -266.00388  Act= -266.00209
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11207                                                   0.001783891735272
mA               -1.157                1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : -266.00
4507.11208                                  Exp= -0.02386    Act= -0.01885
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11209                                                   0.005011324299150
mA               -0.625                0.625       Delta : HC->HC MI PGA 10V
Range 4A 10X : 0.00
4507.11210                                  Exp= 266.00061   Act= 265.98174
mA                                                  HC->HC MI PGA 10V Range 4A 10X
4507.11211                                                  -0.018876262777837
mA               -1.157                1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : 266.00
4507.11212                                  Exp= -26.57034   Act= -26.58079
mA                                                  HC->HC MI PGA 10V Range 4A
100X
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4507.11213                                                  -0.010457986184473
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 10V
Range 4A 100X : -26.60
4507.11214                          Exp= -0.00502    Act= -0.01649
mA                                        HC->HC MI PGA 10V Range 4A
100X
4507.11215                                                  -0.011467640508664
mA               -0.312               0.312       Delta : HC->HC MI PGA 10V
Range 4A 100X : 0.00
4507.11216                          Exp= 26.57959    Act= 26.56715
mA                                        HC->HC MI PGA 10V Range 4A
100X
4507.11217                                                  -0.012442308895924
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 10V
Range 4A 100X : 26.60
4508.10000                                          HC relays verified
DIB HC Relays Check
4508.10001                                                             0
status                                    0       DIB HC Relays Check
4508.10002                                  Measure the HV 20V divider
External HV Source Calibration Factors
4508.10003                                                             0
status                                    0       External HV Source
Calibration Factors
4508.10004                                 Measure the HV 200V divider
External HV Source Calibration Factors
4508.10005                                                             0
status                                    0       External HV Source
Calibration Factors
4508.10006                                            Measure 2000V path
External HV Source Calibration Factors
4508.10007                                                             0
status                                    0       External HV Source
Calibration Factors
4508.10008                                               Measure ATTEN_2
External HV Source Calibration Factors
4508.10009                                                             0
status                                    0       External HV Source
Calibration Factors
4508.10010                                 HV cal factors to/from file
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External HV Source Calibration Factors
4508.10011                                                              0
status                                      0       External HV Source
Calibration Factors
4508.10012                                   External HV Source Cal Data
External HV Source Calibration Factors
4508.10013                                                              0
status                                      0       External HV Source
Calibration Factors
4508.10014                                                        -0.00130
-0.0016294          -0.00097761       External HV Source 20V Range slope
4508.10015                                                        -0.00125
-0.05                 0.05        External HV Source 20V Range offset
4508.10016                                                        -0.01406
-0.017924            -0.010754       External HV Source 200V Range slope
4508.10017                                                        -0.01349
-0.5                  0.5        External HV Source 200V Range offset
4508.10018                                                        -0.12212
-0.15259            -0.091554       External HV Source 2000V Range slope
4508.10019                                                        -0.11667
-5                    5        External HV Source 2000V Range offset
4508.10020                                                         0.48950
Atten_2 value
4508.10021                              Exp= -9.49881    Act= -9.49880
V                                          Volt Meter 10V Range 1X
4508.10022                                          0.000013361738457
V            -0.00595                0.00595       Delta : Volt Meter 10V Range
1X : -9.50
4508.10023                              Exp= 0.00123     Act= 0.00123
V                                          Volt Meter 10V Range 1X
4508.10024                                         -0.000007370497416
V             -0.0012                 0.0012       Delta : Volt Meter 10V Range
1X : 0.00
4508.10025                              Exp= 9.50121     Act= 9.50125
V                                          Volt Meter 10V Range 1X
4508.10026                                          0.000039029295422
V            -0.00595                0.00595       Delta : Volt Meter 10V Range
1X : 9.50
4508.10027                              Exp= -28.49893   Act= -28.49884
V                                          Volt Meter 30V Range 1X
```

4508.10028 0.000093888211946
V -0.01825 0.01825 Delta : Volt Meter 30V Range 1X : -28.50
4508.10029 Exp= 0.00113 Act= 0.00112
V Volt Meter 30V Range 1X
4508.10030 -0.000012772071730
V -0.004 0.004 Delta : Volt Meter 30V Range 1X : 0.00
4508.10031 Exp= 28.50116 Act= 28.50129
V Volt Meter 30V Range 1X
4508.10032 0.000129928214520
V -0.01825 0.01825 Delta : Volt Meter 30V Range 1X : 28.50
4508.10033 Exp= -94.99835 Act= -94.99804
V Volt Meter 100V Range 1X
4508.10034 0.000306161820760
V -0.06 0.06 Delta : Volt Meter 100V Range 1X : -95.00
4508.10035 Exp= 0.00109 Act= 0.00090
V Volt Meter 100V Range 1X
4508.10036 -0.000186058836359
V -0.0125 0.0125 Delta : Volt Meter 100V Range 1X : 0.00
4508.10037 Exp= 95.00099 Act= 95.00152
V Volt Meter 100V Range 1X
4508.10038 0.000529773898251
V -0.06 0.06 Delta : Volt Meter 100V Range 1X : 95.00
4508.10039 Exp= -0.94879 Act= -0.94880
V Volt Meter 10V Range 10X
4508.10040 -0.000009807897968
V -0.001075 0.001075 Delta : Volt Meter 10V Range 10X : -0.95
4508.10041 Exp= 0.00124 Act= 0.00123
V Volt Meter 10V Range 10X
4508.10042 -0.000010475366311
V -0.0006 0.0006 Delta : Volt Meter 10V Range 10X : 0.00
4508.10043 Exp= 0.95124 Act= 0.95123
V Volt Meter 10V Range 10X

```
4508.10044                                                  -0.000003458945025
V            -0.001075             0.001075       Delta : Volt Meter 10V Range
10X : 0.95
4508.10045                              Exp= -0.09384    Act= -0.09385
V                                               Volt Meter 10V Range 100X
4508.10046                                             -0.000007721228833
V           -0.0003475            0.0003475       Delta : Volt Meter 10V Range
100X : -0.10
4508.10047                              Exp= 0.00123     Act= 0.00123
V                                               Volt Meter 10V Range 100X
4508.10048                                             -0.000003845443277
V              -0.0003                0.0003       Delta : Volt Meter 10V Range
100X : 0.00
4508.10049                              Exp= 0.09621     Act= 0.09621
V                                               Volt Meter 10V Range 100X
4508.10050                                              0.000000020041827
V           -0.0003475            0.0003475       Delta : Volt Meter 10V Range
100X : 0.10
4508.10051                              Exp= -2.84878    Act= -2.84878
V                                               Volt Meter 30V Range 10X
4508.10052                                             -0.000000653385063
V            -0.003425             0.003425       Delta : Volt Meter 30V Range
10X : -2.85
4508.10053                              Exp= 0.00115     Act= 0.00114
V                                               Volt Meter 30V Range 10X
4508.10054                                             -0.000009642235538
V               -0.002                 0.002       Delta : Volt Meter 30V Range
10X : 0.00
4508.10055                              Exp= 2.85137     Act= 2.85137
V                                               Volt Meter 30V Range 10X
4508.10056                                             -0.000002167798500
V            -0.003425             0.003425       Delta : Volt Meter 30V Range
10X : 2.85
4508.10057                              Exp= -0.28381    Act= -0.28381
V                                               Volt Meter 30V Range 100X
4508.10058                                             -0.000006841109981
V           -0.0011425            0.0011425       Delta : Volt Meter 30V Range
100X : -0.29
4508.10059                              Exp= 0.00115     Act= 0.00116
V                                               Volt Meter 30V Range 100X
```

4508.10060 0.000006417506839
V -0.001 0.001 Delta : Volt Meter 30V Range 100X : 0.00
4508.10061 Exp= 0.28642 Act= 0.28642
V Volt Meter 30V Range 100X
4508.10062 -0.000002308481614
V -0.0011425 0.0011425 Delta : Volt Meter 30V Range 100X : 0.29
4508.10063 Exp= -9.49904 Act= -9.49906
V Volt Meter 100V Range 10X
4508.10064 -0.000021377777244
V -0.01075 0.01075 Delta : Volt Meter 100V Range 10X : -9.50
4508.10065 Exp= 0.00105 Act= 0.00100
V Volt Meter 100V Range 10X
4508.10066 -0.000044398546119
V -0.006 0.006 Delta : Volt Meter 100V Range 10X : 0.00
4508.10067 Exp= 9.50130 Act= 9.50136
V Volt Meter 100V Range 10X
4508.10068 0.000053824575906
V -0.01075 0.01075 Delta : Volt Meter 100V Range 10X : 9.50
4508.10069 Exp= -0.94929 Act= -0.94931
V Volt Meter 100V Range 100X
4508.10070 -0.000022379590238
V -0.003475 0.003475 Delta : Volt Meter 100V Range 100X : -0.95
4508.10071 Exp= 0.00102 Act= 0.00101
V Volt Meter 100V Range 100X
4508.10072 -0.000012365350907
V -0.003 0.003 Delta : Volt Meter 100V Range 100X : 0.00
4508.10073 Exp= 0.95163 Act= 0.95164
V Volt Meter 100V Range 100X
4508.10074 0.000006663782251
V -0.003475 0.003475 Delta : Volt Meter 100V Range 100X : 0.95
4509.10000 38.8 deg C MotherBoard Cal Temperature

```
4509.10001                                                              38.6  deg
C                                                  MotherBoard Chk Temperature
4509.10002   MotherBoard temperature check Exp = 38.793732, Act = 38.575275
MotherBoard Chk Temperature
4509.10003                                                                 0
status                                          0       MotherBoard Chk
Temperature
4509.10004                                                              45.7  deg
C                                                  Control Board Cal Temperature
4509.10005                                                              45.4  deg
C                                                  Control Board Chk Temperature
4509.10006 Control Board temperature check Exp = 45.714199, Act = 45.411346
Control Board Chk Temperature
4509.10007                                                                 0
status                                          0       Control Board Chk
Temperature
Datalog for: Check HPU-105     REV 43, Site #0, Bin #1
  TEST#                                                              RESULT
UNITS                LOWER                UPPER ALARM TEST NAME
---------- ------------------------------------------------------------ -----
- -------------------- -------------------- ----- ------------------------------
------------------------------------------------------------
    4500.0                                                                 0
0       If this failed there are Fatal Errors during Startup, Check System
Monitor
 4500.1000                                                  ETS1UOJUM00038
COMPUTER INFORMATION - Name
 4500.1001                                                    1000.000000
V                                                 DIAG/CAL INFORMATION - Maximum
Voltage
 4500.1101                                                                 0
0       PLD REVISION INFORMATION
 4500.1103                                                                 0
0       PLD REVISION INFORMATION
 4500.1105                                                                 3
3       PLD REVISION INFORMATION
 4500.1106                                    DATA[0]={0, 0, 1, 0, 5}
PLD REVISION INFORMATION
 4500.1107                                    DATA[1]={0, 1, 1, 0, 8}
PLD REVISION INFORMATION
```

```
 4500.1108                                        DATA[2]={0, 0, 1, 0, 1990}
PLD REVISION INFORMATION
4501.10000                                                      -29.99502
V              -30.027              -29.973       LC->LC 16 Bit DRV 30V Range
4501.10001                                              0.004983899999999
V               -0.027                0.027       Delta : LC->LC 16 Bit DRV 30V
Range : -30.00
4501.10002                                                      -25.99872
V              -26.025              -25.975       LC->LC 16 Bit DRV 30V Range
4501.10003                                              0.001279799999999
V               -0.025                0.025       Delta : LC->LC 16 Bit DRV 30V
Range : -26.00
4501.10004                                                      -22.00103
V              -22.023              -21.977       LC->LC 16 Bit DRV 30V Range
4501.10005                                             -0.001030000000000
V               -0.023                0.023       Delta : LC->LC 16 Bit DRV 30V
Range : -22.00
4501.10006                                                      -18.00276
V              -18.021              -17.979       LC->LC 16 Bit DRV 30V Range
4501.10007                                             -0.002756099999999
V               -0.021                0.021       Delta : LC->LC 16 Bit DRV 30V
Range : -18.00
4501.10008                                                      -10.00386
V              -10.017               -9.983       LC->LC 16 Bit DRV 30V Range
4501.10009                                             -0.003864800000001
V               -0.017                0.017       Delta : LC->LC 16 Bit DRV 30V
Range : -10.00
4501.10010                                                       -0.00332
V               -0.012                0.012       LC->LC 16 Bit DRV 30V Range
4501.10011                                             -0.003317999650000
V               -0.012                0.012       Delta : LC->LC 16 Bit DRV 30V
Range : 0.00
4501.10012                                                       9.99860
V                9.983               10.017       LC->LC 16 Bit DRV 30V Range
4501.10013                                             -0.001398560000000
V               -0.017                0.017       Delta : LC->LC 16 Bit DRV 30V
Range : 10.00
4501.10014                                                      18.00041
V               17.979               18.021       LC->LC 16 Bit DRV 30V Range
4501.10015                                              0.000413900000002
```

```
V                -0.021                0.021       Delta : LC->LC 16 Bit DRV 30V
Range : 18.00
4501.10016                                                          22.00042
V                21.977                22.023      LC->LC 16 Bit DRV 30V Range
4501.10017                                                  0.000419600000001
V                -0.023                0.023       Delta : LC->LC 16 Bit DRV 30V
Range : 22.00
4501.10018                                                          26.00171
V                25.975                26.025      LC->LC 16 Bit DRV 30V Range
4501.10019                                                  0.001710899999999
V                -0.025                0.025       Delta : LC->LC 16 Bit DRV 30V
Range : 26.00
4501.10020                                                          30.00245
V                29.973                30.027      LC->LC 16 Bit DRV 30V Range
4501.10021                                                  0.002448099999999
V                -0.027                0.027       Delta : LC->LC 16 Bit DRV 30V
Range : 30.00
4501.10022                                                          -9.99819
V               -10.013               -9.987       LC->LC 16 Bit DRV 10V Range
4501.10023                                                  0.001806260000000
V                -0.013                0.013       Delta : LC->LC 16 Bit DRV 10V
Range : -10.00
4501.10024                                                          -7.99974
V                -8.012               -7.988       LC->LC 16 Bit DRV 10V Range
4501.10025                                                  0.000261550000000
V                -0.012                0.012       Delta : LC->LC 16 Bit DRV 10V
Range : -8.00
4501.10026                                                          -6.00044
V                -6.011               -5.989       LC->LC 16 Bit DRV 10V Range
4501.10027                                                 -0.000438210000000
V                -0.011                0.011       Delta : LC->LC 16 Bit DRV 10V
Range : -6.00
4501.10028                                                          -4.00075
V                 -4.01                -3.99       LC->LC 16 Bit DRV 10V Range
4501.10029                                                 -0.000754120000000
V                 -0.01                 0.01       Delta : LC->LC 16 Bit DRV 10V
Range : -4.00
4501.10030                                                          -2.00105
V                -2.009               -1.991       LC->LC 16 Bit DRV 10V Range
4501.10031                                                 -0.001052980000000
```

V -0.009 0.009 Delta : LC->LC 16 Bit DRV 10V Range : -2.00
4501.10032 -0.00090
V -0.008 0.008 LC->LC 16 Bit DRV 10V Range
4501.10033 -0.000898633560000
V -0.008 0.008 Delta : LC->LC 16 Bit DRV 10V Range : 0.00
4501.10034 1.99937
V 1.991 2.009 LC->LC 16 Bit DRV 10V Range
4501.10035 -0.000627700000000
V -0.009 0.009 Delta : LC->LC 16 Bit DRV 10V Range : 2.00
4501.10036 3.99957
V 3.99 4.01 LC->LC 16 Bit DRV 10V Range
4501.10037 -0.000425580000000
V -0.01 0.01 Delta : LC->LC 16 Bit DRV 10V Range : 4.00
4501.10038 6.00019
V 5.989 6.011 LC->LC 16 Bit DRV 10V Range
4501.10039 0.000189300000000
V -0.011 0.011 Delta : LC->LC 16 Bit DRV 10V Range : 6.00
4501.10040 8.00081
V 7.988 8.012 LC->LC 16 Bit DRV 10V Range
4501.10041 0.000812529999999
V -0.012 0.012 Delta : LC->LC 16 Bit DRV 10V Range : 8.00
4501.10042 10.00128
V 9.987 10.013 LC->LC 16 Bit DRV 10V Range
4501.10043 0.001281700000000
V -0.013 0.013 Delta : LC->LC 16 Bit DRV 10V Range : 10.00
4502.10000 -29.99991
V -30.014 -29.987 LC->LC 18 Bit DRV 30V Range
4502.10001 0.000091600000001
V -0.0135 0.0135 Delta : LC->LC 18 Bit DRV 30V Range : -30.00
4502.10002 -15.00065
V -15.01 -14.99 LC->LC 18 Bit DRV 30V Range
4502.10003 -0.000648999999999

V	-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V Range : -15.00
4502.10004			0.00029
V	-0.006	0.006	LC->LC 18 Bit DRV 30V Range
4502.10005			0.000288104173000
V	-0.006	0.006	Delta : LC->LC 18 Bit DRV 30V Range : 0.00
4502.10006			15.00079
V	14.99	15.01	LC->LC 18 Bit DRV 30V Range
4502.10007			0.000786800000000
V	-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V Range : 15.00
4502.10008			29.99997
V	29.987	30.014	LC->LC 18 Bit DRV 30V Range
4502.10009			-0.000028600000000
V	-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V Range : 30.00
4502.10010			-9.99988
V	-10.007	-9.9935	LC->LC 18 Bit DRV 10V Range
4502.10011			0.000117780000000
V	-0.0065	0.0065	Delta : LC->LC 18 Bit DRV 10V Range : -10.00
4502.10012			-5.00013
V	-5.0053	-4.9948	LC->LC 18 Bit DRV 10V Range
4502.10013			-0.000134470000000
V	-0.00525	0.00525	Delta : LC->LC 18 Bit DRV 10V Range : -5.00
4502.10014			0.00014
V	-0.004	0.004	LC->LC 18 Bit DRV 10V Range
4502.10015			0.000141611810000
V	-0.004	0.004	Delta : LC->LC 18 Bit DRV 10V Range : 0.00
4502.10016			5.00022
V	4.9948	5.0053	LC->LC 18 Bit DRV 10V Range
4502.10017			0.000216960000000
V	-0.00525	0.00525	Delta : LC->LC 18 Bit DRV 10V Range : 5.00
4502.10018			9.99993
V	9.9935	10.007	LC->LC 18 Bit DRV 10V Range
4502.10019			-0.000074860000000

```
V               -0.0065              0.0065       Delta : LC->LC 18 Bit DRV 10V
Range : 10.00
4503.10000                                                        -99.99975
V               -100.04             -99.963       LC->LC V/I Mode FV 100V Range
4503.10001                                                 0.000247999999999
V               -0.0375              0.0375       Delta : LC->LC V/I Mode FV 100V
Range : -100.00
4503.10002                                Exp= -99.99975    Act= -100.00069
V                                                 LC->LC V/I Mode MV 100V Range
4503.10003                                               -0.000938458021068
V               -0.0375              0.0375       Delta : LC->LC V/I Mode MV 100V
Range : -100.00
4503.10004                                                        -49.99975
V               -50.025             -49.975       LC->LC V/I Mode FV 100V Range
4503.10005                                                 0.000249900000000
V                -0.025               0.025       Delta : LC->LC V/I Mode FV 100V
Range : -50.00
4503.10006                                Exp= -49.99975    Act= -50.00036
V                                                 LC->LC V/I Mode MV 100V Range
4503.10007                                               -0.000612711308058
V                -0.025               0.025       Delta : LC->LC V/I Mode MV 100V
Range : -50.00
4503.10008                                                         0.00056
V               -0.0125              0.0125       LC->LC V/I Mode FV 100V Range
4503.10009                                                 0.000558109459000
V               -0.0125              0.0125       Delta : LC->LC V/I Mode FV 100V
Range : 0.00
4503.10010                                Exp= 0.00056      Act= 0.00046
V                                                 LC->LC V/I Mode MV 100V Range
4503.10011                                               -0.000101258691245
V               -0.0125              0.0125       Delta : LC->LC V/I Mode MV 100V
Range : 0.00
4503.10012                                                         50.00035
V                49.975              50.025       LC->LC V/I Mode FV 100V Range
4503.10013                                                 0.000345199999998
V                -0.025               0.025       Delta : LC->LC V/I Mode FV 100V
Range : 50.00
4503.10014                                Exp= 50.00035     Act= 50.00083
V                                                 LC->LC V/I Mode MV 100V Range
4503.10015                                                 0.000482383171864
```

```
V                -0.025              0.025       Delta : LC->LC V/I Mode MV 100V
Range : 50.00
4503.10016                                                          99.99971
V                99.963             100.04       LC->LC V/I Mode FV 100V Range
4503.10017                                              -0.000289899999999
V                -0.0375            0.0375       Delta : LC->LC V/I Mode FV 100V
Range : 100.00
4503.10018                          Exp= 99.99971    Act= 99.99961
V                                               LC->LC V/I Mode MV 100V Range
4503.10019                                              -0.000096317888065
V                -0.0375            0.0375       Delta : LC->LC V/I Mode MV 100V
Range : 100.00
4503.10020                                                          -30.00004
V                -30.01             -29.99       LC->LC V/I Mode FV 30V Range
4503.10021                                              -0.000036200000000
V                 -0.01               0.01       Delta : LC->LC V/I Mode FV 30V
Range : -30.00
4503.10022                          Exp= -30.00004   Act= -30.00026
V                                               LC->LC V/I Mode MV 30V Range
4503.10023                                              -0.000221819412246
V                 -0.01               0.01       Delta : LC->LC V/I Mode MV 30V
Range : -30.00
4503.10024                                                          -15.00005
V                -15.006            -14.994       LC->LC V/I Mode FV 30V Range
4503.10025                                              -0.000054400000000
V               -0.00625            0.00625       Delta : LC->LC V/I Mode FV 30V
Range : -15.00
4503.10026                          Exp= -15.00005   Act= -15.00031
V                                               LC->LC V/I Mode MV 30V Range
4503.10027                                              -0.000252288815149
V               -0.00625            0.00625       Delta : LC->LC V/I Mode MV 30V
Range : -15.00
4503.10028                                                           0.00013
V                -0.0025             0.0025       LC->LC V/I Mode FV 30V Range
4503.10029                                               0.000128538777000
V                -0.0025             0.0025       Delta : LC->LC V/I Mode FV 30V
Range : 0.00
4503.10030                          Exp= 0.00013     Act= -0.00000
V                                               LC->LC V/I Mode MV 30V Range
4503.10031                                              -0.000131159341832
```

```
V                -0.0025                  0.0025        Delta : LC->LC V/I Mode MV 30V
Range : 0.00
4503.10032                                                                  15.00007
V                 14.994                  15.006        LC->LC V/I Mode FV 30V Range
4503.10033                                                          0.000071500000001
V                -0.00625                 0.00625       Delta : LC->LC V/I Mode FV 30V
Range : 15.00
4503.10034                                      Exp= 15.00007    Act= 15.00016
V                                                     LC->LC V/I Mode MV 30V Range
4503.10035                                                          0.000090596390848
V                -0.00625                 0.00625       Delta : LC->LC V/I Mode MV 30V
Range : 15.00
4503.10036                                                                  29.99985
V                  29.99                   30.01        LC->LC V/I Mode FV 30V Range
4503.10037                                                         -0.000154500000001
V                  -0.01                    0.01        Delta : LC->LC V/I Mode FV 30V
Range : 30.00
4503.10038                                      Exp= 29.99985    Act= 29.99996
V                                                     LC->LC V/I Mode MV 30V Range
4503.10039                                                          0.000117843265450
V                  -0.01                    0.01        Delta : LC->LC V/I Mode MV 30V
Range : 30.00
4503.10040                                                                  -9.99999
V                -10.003                  -9.9967       LC->LC V/I Mode FV 10V Range
4503.10041                                                          0.000012399999999
V                -0.0033                  0.0033        Delta : LC->LC V/I Mode FV 10V
Range : -10.00
4503.10042                                      Exp= -9.99999    Act= -10.00007
V                                                     LC->LC V/I Mode MV 10V Range
4503.10043                                                         -0.000085193067228
V                -0.0033                  0.0033        Delta : LC->LC V/I Mode MV 10V
Range : -10.00
4503.10044                                                                  -4.99998
V                -5.0021                  -4.998        LC->LC V/I Mode FV 10V Range
4503.10045                                                          0.000022650000000
V                -0.00205                 0.00205       Delta : LC->LC V/I Mode FV 10V
Range : -5.00
4503.10046                                      Exp= -4.99998    Act= -5.00002
V                                                     LC->LC V/I Mode MV 10V Range
4503.10047                                                         -0.000038313716339
```

```
V              -0.00205          0.00205       Delta : LC->LC V/I Mode MV 10V
Range : -5.00
4503.10048                                                        0.00009
V               -0.0008           0.0008       LC->LC V/I Mode FV 10V Range
4503.10049                                              0.000092169440900
V               -0.0008           0.0008       Delta : LC->LC V/I Mode FV 10V
Range : 0.00
4503.10050                          Exp= 0.00009     Act= 0.00007
V                                               LC->LC V/I Mode MV 10V Range
4503.10051                                             -0.000018502222704
V               -0.0008           0.0008       Delta : LC->LC V/I Mode MV 10V
Range : 0.00
4503.10052                                                        5.00001
V                 4.998           5.0021       LC->LC V/I Mode FV 10V Range
4503.10053                                              0.000005960000000
V              -0.00205          0.00205       Delta : LC->LC V/I Mode FV 10V
Range : 5.00
4503.10054                          Exp= 5.00001     Act= 5.00004
V                                               LC->LC V/I Mode MV 10V Range
4503.10055                                              0.000030082691910
V              -0.00205          0.00205       Delta : LC->LC V/I Mode MV 10V
Range : 5.00
4503.10056                                                       10.00001
V                9.9967           10.003       LC->LC V/I Mode FV 10V Range
4503.10057                                              0.000014800000001
V               -0.0033           0.0033       Delta : LC->LC V/I Mode FV 10V
Range : 10.00
4503.10058                          Exp= 10.00001    Act= 10.00003
V                                               LC->LC V/I Mode MV 10V Range
4503.10059                                              0.000017443848190
V               -0.0033           0.0033       Delta : LC->LC V/I Mode MV 10V
Range : 10.00
4503.10060                                                      -74.99958
V               -75.031          -74.969       HC->HC V/I Mode FV 75V Range
4503.10061                                              0.000415799999999
V              -0.03125          0.03125       Delta : HC->HC V/I Mode FV 75V
Range : -75.00
4503.10062                          Exp= -74.99958   Act= -74.99985
V                                               HC->HC V/I Mode MV 75V Range
4503.10063                                             -0.000262554359850
```

```
V              -0.03125              0.03125       Delta : HC->HC V/I Mode MV 75V
Range : -75.00
4503.10064                                                        -37.49937
V               -37.522               -37.478      HC->HC V/I Mode FV 75V Range
4503.10065                                                 0.000627500000000
V              -0.021875             0.021875       Delta : HC->HC V/I Mode FV 75V
Range : -37.50
4503.10066                                 Exp= -37.49937    Act= -37.49991
V                                                  HC->HC V/I Mode MV 75V Range
4503.10067                                               -0.000533783940249
V              -0.021875             0.021875       Delta : HC->HC V/I Mode MV 75V
Range : -37.50
4503.10068                                                          0.00042
V               -0.0125               0.0125       HC->HC V/I Mode FV 75V Range
4503.10069                                                 0.000421075310000
V               -0.0125               0.0125       Delta : HC->HC V/I Mode FV 75V
Range : 0.00
4503.10070                                 Exp= 0.00042     Act= 0.00031
V                                                  HC->HC V/I Mode MV 75V Range
4503.10071                                               -0.000110004148383
V               -0.0125               0.0125       Delta : HC->HC V/I Mode MV 75V
Range : 0.00
4503.10072                                                         37.50001
V                37.478                37.522      HC->HC V/I Mode FV 75V Range
4503.10073                                                 0.000009499999997
V              -0.021875             0.021875       Delta : HC->HC V/I Mode FV 75V
Range : 37.50
4503.10074                                 Exp= 37.50001     Act= 37.50012
V                                                  HC->HC V/I Mode MV 75V Range
4503.10075                                                 0.000114434228273
V              -0.021875             0.021875       Delta : HC->HC V/I Mode MV 75V
Range : 37.50
4503.10076                                                         74.99947
V                74.969                75.031      HC->HC V/I Mode FV 75V Range
4503.10077                                               -0.000526399999998
V              -0.03125              0.03125       Delta : HC->HC V/I Mode FV 75V
Range : 75.00
4503.10078                                 Exp= 74.99947     Act= 74.99982
V                                                  HC->HC V/I Mode MV 75V Range
4503.10079                                                 0.000350721422194
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V              -0.03125              0.03125       Delta : HC->HC V/I Mode MV 75V
Range : 75.00
4503.10080                                                        -30.00017
V                -30.01               -29.99       HC->HC V/I Mode FV 30V Range
4503.10081                                              -0.000166900000000
V                 -0.01                 0.01       Delta : HC->HC V/I Mode FV 30V
Range : -30.00
4503.10082                          Exp= -30.00017    Act= -30.00050
V                                       HC->HC V/I Mode MV 30V Range
4503.10083                                              -0.000328531976677
V                 -0.01                 0.01       Delta : HC->HC V/I Mode MV 30V
Range : -30.00
4503.10084                                                        -15.00013
V               -15.006              -14.994       HC->HC V/I Mode FV 30V Range
4503.10085                                              -0.000131100000001
V              -0.00625              0.00625       Delta : HC->HC V/I Mode FV 30V
Range : -15.00
4503.10086                          Exp= -15.00013    Act= -15.00034
V                                       HC->HC V/I Mode MV 30V Range
4503.10087                                              -0.000212274314439
V              -0.00625              0.00625       Delta : HC->HC V/I Mode MV 30V
Range : -15.00
4503.10088                                                         0.00007
V                -0.0025               0.0025       HC->HC V/I Mode FV 30V Range
4503.10089                                               0.000074611592900
V                -0.0025               0.0025       Delta : HC->HC V/I Mode FV 30V
Range : 0.00
4503.10090                          Exp= 0.00007      Act= -0.00006
V                                       HC->HC V/I Mode MV 30V Range
4503.10091                                              -0.000136639349164
V                -0.0025               0.0025       Delta : HC->HC V/I Mode MV 30V
Range : 0.00
4503.10092                                                        15.00002
V                 14.994               15.006       HC->HC V/I Mode FV 30V Range
4503.10093                                               0.000022400000001
V              -0.00625              0.00625       Delta : HC->HC V/I Mode FV 30V
Range : 15.00
4503.10094                          Exp= 15.00002     Act= 15.00007
V                                       HC->HC V/I Mode MV 30V Range
4503.10095                                               0.000043621649379
```

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V              -0.00625              0.00625       Delta : HC->HC V/I Mode MV 30V
Range : 15.00
4503.10096                                                          29.99986
V                29.99                30.01       HC->HC V/I Mode FV 30V Range
4503.10097                                                 -0.000139200000000
V                -0.01                 0.01       Delta : HC->HC V/I Mode FV 30V
Range : 30.00
4503.10098                                  Exp= 29.99986    Act= 29.99988
V                                                  HC->HC V/I Mode MV 30V Range
4503.10099                                                  0.000019192846143
V                -0.01                 0.01       Delta : HC->HC V/I Mode MV 30V
Range : 30.00
4503.10100                                                         -10.00004
V              -10.003              -9.9967       HC->HC V/I Mode FV 10V Range
4503.10101                                                 -0.000039599999999
V              -0.0033               0.0033       Delta : HC->HC V/I Mode FV 10V
Range : -10.00
4503.10102                                  Exp= -10.00004   Act= -10.00007
V                                                  HC->HC V/I Mode MV 10V Range
4503.10103                                                 -0.000029429805172
V              -0.0033               0.0033       Delta : HC->HC V/I Mode MV 10V
Range : -10.00
4503.10104                                                          -5.00002
V              -5.0021               -4.998       HC->HC V/I Mode FV 10V Range
4503.10105                                                 -0.000022170000000
V             -0.00205              0.00205       Delta : HC->HC V/I Mode FV 10V
Range : -5.00
4503.10106                                  Exp= -5.00002    Act= -5.00006
V                                                  HC->HC V/I Mode MV 10V Range
4503.10107                                                 -0.000034195200718
V             -0.00205              0.00205       Delta : HC->HC V/I Mode MV 10V
Range : -5.00
4503.10108                                                           0.00004
V              -0.0008               0.0008       HC->HC V/I Mode FV 10V Range
4503.10109                                                  0.000038151802100
V              -0.0008               0.0008       Delta : HC->HC V/I Mode FV 10V
Range : 0.00
4503.10110                                  Exp= 0.00004     Act= 0.00004
V                                                  HC->HC V/I Mode MV 10V Range
4503.10111                                                  0.000005237078985
```

V -0.0008 0.0008 Delta : HC->HC V/I Mode MV 10V Range : 0.00
4503.10112 5.00004
V 4.998 5.0021 HC->HC V/I Mode FV 10V Range
4503.10113 0.000042920000000
V -0.00205 0.00205 Delta : HC->HC V/I Mode FV 10V Range : 5.00
4503.10114 Exp= 5.00004 Act= 5.00006
V HC->HC V/I Mode MV 10V Range
4503.10115 0.000018410892230
V -0.00205 0.00205 Delta : HC->HC V/I Mode MV 10V Range : 5.00
4503.10116 9.99999
V 9.9967 10.003 HC->HC V/I Mode FV 10V Range
4503.10117 -0.000014309999999
V -0.0033 0.0033 Delta : HC->HC V/I Mode FV 10V Range : 10.00
4503.10118 Exp= 9.99999 Act= 9.99996
V HC->HC V/I Mode MV 10V Range
4503.10119 -0.000030453583742
V -0.0033 0.0033 Delta : HC->HC V/I Mode MV 10V Range : 10.00
4503.10120 HC relays OK
DIB HC Relays Check
4503.10121 0
status 0 DIB HC Relays Check
4504.11000 HC relays verified
DIB HC Relays Check
4504.11001 0
status 0 DIB HC Relays Check
4504.11002 -500.00438
mA -500.38 -499.63 LC->LC FI 100V Range 500mA
4504.11003 -0.004381000000024
mA -0.375 0.375 Delta : LC->LC FI 100V Range 500mA : -500.00
4504.11004 Exp= -500.00438 Act= -499.99861
mA LC->LC MI 100V Range 500mA
4504.11005 0.005771011117247
mA -0.375 0.375 Delta : LC->LC MI 100V Range 500mA : -500.00

4504.11006 -250.00043
mA -250.25 -249.75 LC->LC FI 100V Range 500mA
4504.11007 -0.000425000000035
mA -0.25 0.25 Delta : LC->LC FI 100V Range
500mA : -250.00
4504.11008 Exp= -250.00043 Act= -249.99990
mA LC->LC MI 100V Range 500mA
4504.11009 0.000522645831865
mA -0.25 0.25 Delta : LC->LC MI 100V Range
500mA : -250.00
4504.11010 0.00012
mA -0.125 0.125 LC->LC FI 100V Range 500mA
4504.11011 0.000115070065000
mA -0.125 0.125 Delta : LC->LC FI 100V Range
500mA : 0.00
4504.11012 Exp= 0.00012 Act= 0.00105
mA LC->LC MI 100V Range 500mA
4504.11013 0.000936602527944
mA -0.125 0.125 Delta : LC->LC MI 100V Range
500mA : 0.00
4504.11014 249.99924
mA 249.75 250.25 LC->LC FI 100V Range 500mA
4504.11015 -0.000759999999985
mA -0.25 0.25 Delta : LC->LC FI 100V Range
500mA : 250.00
4504.11016 Exp= 249.99924 Act= 250.00154
mA LC->LC MI 100V Range 500mA
4504.11017 0.002298424979728
mA -0.25 0.25 Delta : LC->LC MI 100V Range
500mA : 250.00
4504.11018 499.99873
mA 499.63 500.38 LC->LC FI 100V Range 500mA
4504.11019 -0.001267000000041
mA -0.375 0.375 Delta : LC->LC FI 100V Range
500mA : 500.00
4504.11020 Exp= 499.99873 Act= 500.00222
mA LC->LC MI 100V Range 500mA
4504.11021 0.003482702854683
mA -0.375 0.375 Delta : LC->LC MI 100V Range
500mA : 500.00

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4504.11022                                                    -950.00866
mA              -950.6          -949.4        LC->LC FI 30V Range 1A
4504.11023                                  -0.008661000000075
mA                -0.6            0.6         Delta : LC->LC FI 30V Range
1A : -950.00
4504.11024                    Exp= -950.00866  Act= -949.99327
mA                                  LC->LC MI 30V Range 1A
4504.11025                                   0.015390368991007
mA                -0.6            0.6         Delta : LC->LC MI 30V Range
1A : -950.00
4504.11026                                                    -475.00092
mA              -475.36         -474.64       LC->LC FI 30V Range 1A
4504.11027                                  -0.000918000000013
mA              -0.3625         0.3625        Delta : LC->LC FI 30V Range
1A : -475.00
4504.11028                    Exp= -475.00092  Act= -474.99839
mA                                  LC->LC MI 30V Range 1A
4504.11029                                   0.002530660152104
mA              -0.3625         0.3625        Delta : LC->LC MI 30V Range
1A : -475.00
4504.11030                                                      0.00456
mA               -0.125          0.125        LC->LC FI 30V Range 1A
4504.11031                                   0.004564446040000
mA               -0.125          0.125        Delta : LC->LC FI 30V Range
1A : 0.00
4504.11032                    Exp= 0.00456     Act= 0.00525
mA                                  LC->LC MI 30V Range 1A
4504.11033                                   0.000685873821134
mA               -0.125          0.125        Delta : LC->LC MI 30V Range
1A : 0.00
4504.11034                                                    475.00898
mA               474.64          475.36       LC->LC FI 30V Range 1A
4504.11035                                   0.008979000000011
mA              -0.3625         0.3625        Delta : LC->LC FI 30V Range
1A : 475.00
4504.11036                    Exp= 475.00898   Act= 475.01077
mA                                  LC->LC MI 30V Range 1A
4504.11037                                   0.001789701281780
mA              -0.3625         0.3625        Delta : LC->LC MI 30V Range
1A : 475.00
```

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4504.11038                                                    950.00270
mA              949.4          950.6       LC->LC FI 30V Range 1A
4504.11039                                          0.002700000000004
mA               -0.6            0.6       Delta : LC->LC FI 30V Range
1A : 950.00
4504.11040                    Exp= 950.00270   Act= 950.00493
mA                                  LC->LC MI 30V Range 1A
4504.11041                                    0.002229708257573
mA               -0.6            0.6       Delta : LC->LC MI 30V Range
1A : 950.00
4504.11042                                                   -100.00143
mA             -100.06         -99.938       LC->LC FI 30V Range 100mA
4504.11043                                       -0.001431999999994
mA             -0.0625          0.0625       Delta : LC->LC FI 30V Range
100mA : -100.00
4504.11044                    Exp= -100.00143  Act= -100.00110
mA                                  LC->LC MI 30V Range 100mA
4504.11045                                    0.000333743675171
mA             -0.0625          0.0625       Delta : LC->LC MI 30V Range
100mA : -100.00
4504.11046                                                    -50.00005
mA              -50.038         -49.963       LC->LC FI 30V Range 100mA
4504.11047                                     -0.000047300000006
mA             -0.0375          0.0375       Delta : LC->LC FI 30V Range
100mA : -50.00
4504.11048                    Exp= -50.00005   Act= -49.99974
mA                                  LC->LC MI 30V Range 100mA
4504.11049                                    0.000304649960242
mA             -0.0375          0.0375       Delta : LC->LC MI 30V Range
100mA : -50.00
4504.11050                                                     -0.00025
mA             -0.0125          0.0125       LC->LC FI 30V Range 100mA
4504.11051                                     -0.000250545899000
mA             -0.0125          0.0125       Delta : LC->LC FI 30V Range
100mA : 0.00
4504.11052                    Exp= -0.00025    Act= 0.00001
mA                                  LC->LC MI 30V Range 100mA
4504.11053                                    0.000265093562373
mA             -0.0125          0.0125       Delta : LC->LC MI 30V Range
100mA : 0.00
```

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4504.11054                                                    49.99980
mA              49.963          50.038      LC->LC FI 30V Range 100mA
4504.11055                                          -0.000198599999997
mA             -0.0375          0.0375      Delta : LC->LC FI 30V Range
100mA : 50.00
4504.11056                  Exp= 49.99980    Act= 49.99984
mA                                  LC->LC MI 30V Range 100mA
4504.11057                                   0.000037912297849
mA             -0.0375          0.0375      Delta : LC->LC MI 30V Range
100mA : 50.00
4504.11058                                                   100.00012
mA              99.938          100.06      LC->LC FI 30V Range 100mA
4504.11059                                   0.000120999999993
mA             -0.0625          0.0625      Delta : LC->LC FI 30V Range
100mA : 100.00
4504.11060                  Exp= 100.00012   Act= 100.00036
mA                                  LC->LC MI 30V Range 100mA
4504.11061                                   0.000237040521000
mA             -0.0625          0.0625      Delta : LC->LC MI 30V Range
100mA : 100.00
4504.11062                                                    -9.99995
mA             -10.006          -9.9938      LC->LC FI 30V Range 10mA
4504.11063                                   0.000048190000001
mA            -0.00625         0.00625      Delta : LC->LC FI 30V Range
10mA : -10.00
4504.11064                  Exp= -9.99995    Act= -10.00002
mA                                  LC->LC MI 30V Range 10mA
4504.11065                                         -0.000067273317809
mA            -0.00625         0.00625      Delta : LC->LC MI 30V Range
10mA : -10.00
4504.11066                                                    -5.00001
mA             -5.0038          -4.9963      LC->LC FI 30V Range 10mA
4504.11067                                         -0.000010370000000
mA            -0.00375         0.00375      Delta : LC->LC FI 30V Range
10mA : -5.00
4504.11068                  Exp= -5.00001    Act= -5.00008
mA                                  LC->LC MI 30V Range 10mA
4504.11069                                         -0.000068843334625
mA            -0.00375         0.00375      Delta : LC->LC MI 30V Range
10mA : -5.00
```

4504.11070 0.00002
mA -0.00125 0.00125 LC->LC FI 30V Range 10mA
4504.11071 0.000024350870200
mA -0.00125 0.00125 Delta : LC->LC FI 30V Range
10mA : 0.00
4504.11072 Exp= 0.00002 Act= 0.00001
mA LC->LC MI 30V Range 10mA
4504.11073 -0.000014307030137
mA -0.00125 0.00125 Delta : LC->LC MI 30V Range
10mA : 0.00
4504.11074 4.99999
mA 4.9963 5.0038 LC->LC FI 30V Range 10mA
4504.11075 -0.000008490000000
mA -0.00375 0.00375 Delta : LC->LC FI 30V Range
10mA : 5.00
4504.11076 Exp= 4.99999 Act= 5.00006
mA LC->LC MI 30V Range 10mA
4504.11077 0.000063993620355
mA -0.00375 0.00375 Delta : LC->LC MI 30V Range
10mA : 5.00
4504.11078 10.00002
mA 9.9938 10.006 LC->LC FI 30V Range 10mA
4504.11079 0.000018899999999
mA -0.00625 0.00625 Delta : LC->LC FI 30V Range
10mA : 10.00
4504.11080 Exp= 10.00002 Act= 9.99997
mA LC->LC MI 30V Range 10mA
4504.11081 -0.000046739836650
mA -0.00625 0.00625 Delta : LC->LC MI 30V Range
10mA : 10.00
4504.11082 -1.00000
mA -1.0006 -0.99938 LC->LC FI 30V Range 1mA
4504.11083 0.000000826000000
mA -0.000625 0.000625 Delta : LC->LC FI 30V Range
1mA : -1.00
4504.11084 Exp= -1.00000 Act= -1.00000
mA LC->LC MI 30V Range 1mA
4504.11085 -0.000004346645632
mA -0.000625 0.000625 Delta : LC->LC MI 30V Range
1mA : -1.00

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4504.11086                                                    -0.50000
mA            -0.50038          -0.49963       LC->LC FI 30V Range 1mA
4504.11087                                        -0.000000839000000
mA            -0.000375          0.000375       Delta : LC->LC FI 30V Range
1mA : -0.50
4504.11088                        Exp= -0.50000    Act= -0.50001
mA                                   LC->LC MI 30V Range 1mA
4504.11089                                        -0.000005512205476
mA            -0.000375          0.000375       Delta : LC->LC MI 30V Range
1mA : -0.50
4504.11090                                                     0.00000
mA            -0.000125          0.000125       LC->LC FI 30V Range 1mA
4504.11091                                        -0.000000698994751
mA            -0.000125          0.000125       Delta : LC->LC FI 30V Range
1mA : 0.00
4504.11092                        Exp= -0.00000    Act= -0.00000
mA                                   LC->LC MI 30V Range 1mA
4504.11093                                        -0.000000967955731
mA            -0.000125          0.000125       Delta : LC->LC MI 30V Range
1mA : 0.00
4504.11094                                                     0.50000
mA             0.49963           0.50038        LC->LC FI 30V Range 1mA
4504.11095                                        -0.000004400000000
mA            -0.000375          0.000375       Delta : LC->LC FI 30V Range
1mA : 0.50
4504.11096                        Exp= 0.50000     Act= 0.50000
mA                                   LC->LC MI 30V Range 1mA
4504.11097                                         0.000000582345109
mA            -0.000375          0.000375       Delta : LC->LC MI 30V Range
1mA : 0.50
4504.11098                                                     1.00000
mA             0.99938            1.0006        LC->LC FI 30V Range 1mA
4504.11099                                        -0.000001349000000
mA            -0.000625          0.000625       Delta : LC->LC FI 30V Range
1mA : 1.00
4504.11100                        Exp= 1.00000     Act= 1.00000
mA                                   LC->LC MI 30V Range 1mA
4504.11101                                         0.000004014112376
mA            -0.000625          0.000625       Delta : LC->LC MI 30V Range
1mA : 1.00
```

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4504.11102                                                    -950.00291
mA              -950.73          -949.28       LC->LC FI 10V Range 2A
4504.11103                                          -0.002908999999931
mA               -0.725            0.725       Delta : LC->LC FI 10V Range
2A : -950.00
4504.11104                      Exp= -950.00291  Act= -949.99228
mA                                  LC->LC MI 10V Range 2A
4504.11105                                   0.010625897542013
mA               -0.725            0.725       Delta : LC->LC MI 10V Range
2A : -950.00
4504.11106                                                    -474.99958
mA              -475.49          -474.51       LC->LC FI 10V Range 2A
4504.11107                                   0.000423000000012
mA              -0.4875           0.4875       Delta : LC->LC FI 10V Range
2A : -475.00
4504.11108                      Exp= -474.99958  Act= -474.98750
mA                                  LC->LC MI 10V Range 2A
4504.11109                                   0.012073331195381
mA              -0.4875           0.4875       Delta : LC->LC MI 10V Range
2A : -475.00
4504.11110                                                      0.00510
mA                -0.25             0.25       LC->LC FI 10V Range 2A
4504.11111                                   0.005101439680000
mA                -0.25             0.25       Delta : LC->LC FI 10V Range
2A : 0.00
4504.11112                      Exp= 0.00510     Act= 0.01230
mA                                  LC->LC MI 10V Range 2A
4504.11113                                   0.007195937997005
mA                -0.25             0.25       Delta : LC->LC MI 10V Range
2A : 0.00
4504.11114                                                    475.00609
mA               474.51           475.49       LC->LC FI 10V Range 2A
4504.11115                                   0.006089000000031
mA              -0.4875           0.4875       Delta : LC->LC FI 10V Range
2A : 475.00
4504.11116                      Exp= 475.00609   Act= 475.01294
mA                                  LC->LC MI 10V Range 2A
4504.11117                                   0.006852117504309
mA              -0.4875           0.4875       Delta : LC->LC MI 10V Range
2A : 475.00
```

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4504.11118                                                    949.99349
mA              949.28          950.73      LC->LC FI 10V Range 2A
4504.11119                                          -0.006509000000051
mA              -0.725          0.725       Delta : LC->LC FI 10V Range
2A : 950.00
4504.11120                  Exp= 949.99349   Act= 950.00265
mA                                  LC->LC MI 10V Range 2A
4504.11121                                    0.009162835311145
mA              -0.725          0.725       Delta : LC->LC MI 10V Range
2A : 950.00
4504.11122                                                  -199.99941
mA             -200.13         -199.88      LC->LC FI 10V Range 200mA
4504.11123                                    0.000586000000027
mA              -0.125          0.125       Delta : LC->LC FI 10V Range
200mA : -200.00
4504.11124                  Exp= -199.99941  Act= -200.00056
mA                                  LC->LC MI 10V Range 200mA
4504.11125                                          -0.001146447018385
mA              -0.125          0.125       Delta : LC->LC MI 10V Range
200mA : -200.00
4504.11126                                                  -100.00222
mA             -100.08          -99.925     LC->LC FI 10V Range 200mA
4504.11127                                          -0.002217999999999
mA              -0.075          0.075       Delta : LC->LC FI 10V Range
200mA : -100.00
4504.11128                  Exp= -100.00222  Act= -100.00011
mA                                  LC->LC MI 10V Range 200mA
4504.11129                                    0.002104429420896
mA              -0.075          0.075       Delta : LC->LC MI 10V Range
200mA : -100.00
4504.11130                                                    -0.00253
mA              -0.025          0.025       LC->LC FI 10V Range 200mA
4504.11131                                          -0.002531541440000
mA              -0.025          0.025       Delta : LC->LC FI 10V Range
200mA : 0.00
4504.11132                  Exp= -0.00253    Act= -0.00028
mA                                  LC->LC MI 10V Range 200mA
4504.11133                                    0.002250236644590
mA              -0.025          0.025       Delta : LC->LC MI 10V Range
200mA : 0.00
```

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4504.11134                                                    99.99999
mA              99.925          100.08      LC->LC FI 10V Range 200mA
4504.11135                                          -0.000005999999999
mA              -0.075           0.075      Delta : LC->LC FI 10V Range
200mA : 100.00
4504.11136                  Exp= 99.99999    Act= 100.00030
mA                                  LC->LC MI 10V Range 200mA
4504.11137                                    0.000306627549051
mA              -0.075           0.075      Delta : LC->LC MI 10V Range
200mA : 100.00
4504.11138                                                    199.99941
mA              199.88          200.13      LC->LC FI 10V Range 200mA
4504.11139                                          -0.000586000000027
mA              -0.125           0.125      Delta : LC->LC FI 10V Range
200mA : 200.00
4504.11140                  Exp= 199.99941   Act= 199.99895
mA                                  LC->LC MI 10V Range 200mA
4504.11141                                          -0.000467691594025
mA              -0.125           0.125      Delta : LC->LC MI 10V Range
200mA : 200.00
4504.11142                                                    -19.99994
mA             -20.013         -19.988      LC->LC FI 10V Range 20mA
4504.11143                                    0.000057300000002
mA             -0.0125          0.0125      Delta : LC->LC FI 10V Range
20mA : -20.00
4504.11144                  Exp= -19.99994   Act= -20.00004
mA                                  LC->LC MI 10V Range 20mA
4504.11145                                          -0.000096604618111
mA             -0.0125          0.0125      Delta : LC->LC MI 10V Range
20mA : -20.00
4504.11146                                                    -10.00004
mA             -10.008          -9.9925      LC->LC FI 10V Range 20mA
4504.11147                                          -0.000038000000000
mA             -0.0075          0.0075      Delta : LC->LC FI 10V Range
20mA : -10.00
4504.11148                  Exp= -10.00004   Act= -10.00010
mA                                  LC->LC MI 10V Range 20mA
4504.11149                                          -0.000065556311661
mA             -0.0075          0.0075      Delta : LC->LC MI 10V Range
20mA : -10.00
```

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4504.11150                                                    -0.00006
mA              -0.0025          0.0025       LC->LC FI 10V Range 20mA
4504.11151                                          -0.000063471629700
mA              -0.0025          0.0025       Delta : LC->LC FI 10V Range
20mA : 0.00
4504.11152                        Exp= -0.00006    Act= -0.00004
mA                                             LC->LC MI 10V Range 20mA
4504.11153                                           0.000019291974162
mA              -0.0025          0.0025       Delta : LC->LC MI 10V Range
20mA : 0.00
4504.11154                                                    10.00006
mA               9.9925          10.008       LC->LC FI 10V Range 20mA
4504.11155                                           0.000055200000000
mA              -0.0075          0.0075       Delta : LC->LC FI 10V Range
20mA : 10.00
4504.11156                        Exp= 10.00006    Act= 9.99992
mA                                             LC->LC MI 10V Range 20mA
4504.11157                                          -0.000138001407416
mA              -0.0075          0.0075       Delta : LC->LC MI 10V Range
20mA : 10.00
4504.11158                                                    19.99987
mA               19.988          20.013       LC->LC FI 10V Range 20mA
4504.11159                                          -0.000134599999999
mA              -0.0125          0.0125       Delta : LC->LC FI 10V Range
20mA : 20.00
4504.11160                        Exp= 19.99987    Act= 20.00005
mA                                             LC->LC MI 10V Range 20mA
4504.11161                                           0.000183168724941
mA              -0.0125          0.0125       Delta : LC->LC MI 10V Range
20mA : 20.00
4504.11162                                                    -1.99999
mA              -2.0013          -1.9988      LC->LC FI 10V Range 2mA
4504.11163                                           0.000012130000000
mA             -0.00125         0.00125       Delta : LC->LC FI 10V Range
2mA : -2.00
4504.11164                        Exp= -1.99999    Act= -2.00001
mA                                             LC->LC MI 10V Range 2mA
4504.11165                                          -0.000023278459170
mA             -0.00125         0.00125       Delta : LC->LC MI 10V Range
2mA : -2.00
```

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4504.11166                                                    -1.00000
mA              -1.0008          -0.99925       LC->LC FI 10V Range 2mA
4504.11167                                        -0.000002780000000
mA             -0.00075           0.00075       Delta : LC->LC FI 10V Range
2mA : -1.00
4504.11168                    Exp= -1.00000    Act= -1.00001
mA                                    LC->LC MI 10V Range 2mA
4504.11169                                        -0.000002652058455
mA             -0.00075           0.00075       Delta : LC->LC MI 10V Range
2mA : -1.00
4504.11170                                                     0.00000
mA             -0.00025           0.00025       LC->LC FI 10V Range 2mA
4504.11171                                        -0.000001822670010
mA             -0.00025           0.00025       Delta : LC->LC FI 10V Range
2mA : 0.00
4504.11172                    Exp= -0.00000    Act= 0.00000
mA                                    LC->LC MI 10V Range 2mA
4504.11173                                         0.000005284537504
mA             -0.00025           0.00025       Delta : LC->LC MI 10V Range
2mA : 0.00
4504.11174                                                     0.99998
mA              0.99925            1.0008       LC->LC FI 10V Range 2mA
4504.11175                                        -0.000021024000000
mA             -0.00075           0.00075       Delta : LC->LC FI 10V Range
2mA : 1.00
4504.11176                    Exp= 0.99998     Act= 1.00000
mA                                    LC->LC MI 10V Range 2mA
4504.11177                                         0.000016349319512
mA             -0.00075           0.00075       Delta : LC->LC MI 10V Range
2mA : 1.00
4504.11178                                                     2.00000
mA               1.9988             2.0013       LC->LC FI 10V Range 2mA
4504.11179                                         0.000002770000000
mA             -0.00125           0.00125       Delta : LC->LC FI 10V Range
2mA : 2.00
4504.11180                    Exp= 2.00000     Act= 2.00002
mA                                    LC->LC MI 10V Range 2mA
4504.11181                                         0.000012905442529
mA             -0.00125           0.00125       Delta : LC->LC MI 10V Range
2mA : 2.00
```

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4504.11182                                  Chk RSense100A =   1.99806 mOhms
4504.11183                                                                 0
status                                          0
4504.11184                                                          -30.00256
mA              -60.15              0.15        HC->HC FI 10V Range 100A
4504.11185                                                 -0.002563546661470
mA              -30.15             30.15        Delta : HC->HC FI 10V Range
100A : -30.00
4504.11186                             Exp= -30.00256   Act= -29.99946
mA                                          HC->HC MI 10V Range 100A
4504.11187                                                  0.003107060744394
mA              -30.15             30.15        Delta : HC->HC MI 10V Range
100A : -30.00
4504.11188                                                          -15.00172
mA             -45.075            15.075        HC->HC FI 10V Range 100A
4504.11189                                                 -0.001718798975570
mA             -30.075            30.075        Delta : HC->HC FI 10V Range
100A : -15.00
4504.11190                             Exp= -15.00172   Act= -14.99964
mA                                          HC->HC MI 10V Range 100A
4504.11191                                                  0.002078061893865
mA             -30.075            30.075        Delta : HC->HC MI 10V Range
100A : -15.00
4504.11192                                                           0.00000
mA                 -30                30        HC->HC FI 10V Range 100A
4504.11193                                                  0.000000000000000
mA                 -30                30        Delta : HC->HC FI 10V Range
100A : 0.00
4504.11194                             Exp= 0.00000     Act= 0.00052
mA                                          HC->HC MI 10V Range 100A
4504.11195                                                  0.000516423667566
mA                 -30                30        Delta : HC->HC MI 10V Range
100A : 0.00
4504.11196                                                           15.01224
mA             -15.075            45.075        HC->HC FI 10V Range 100A
4504.11197                                                  0.012241242857463
mA             -30.075            30.075        Delta : HC->HC FI 10V Range
100A : 15.00
4504.11198                             Exp= 15.01224    Act= 14.99966
mA                                          HC->HC MI 10V Range 100A
```

4504.11199 -0.012579767049612
mA -30.075 30.075 Delta : HC->HC MI 10V Range 100A : 15.00
4504.11200 30.00274
mA -0.15 60.15 HC->HC FI 10V Range 100A
4504.11201 0.002742853796740
mA -30.15 30.15 Delta : HC->HC FI 10V Range 100A : 30.00
4504.11202 Exp= 30.00274 Act= 29.99946
mA HC->HC MI 10V Range 100A
4504.11203 -0.003285725174408
mA -30.15 30.15 Delta : HC->HC MI 10V Range 100A : 30.00
4504.11204 -949.94545
mA -957.75 -942.25 HC->HC FI 75V Range 10A
4504.11205 0.054550000000063
mA -7.75 7.75 Delta : HC->HC FI 75V Range 10A : -950.00
4504.11206 Exp= -949.94545 Act= -950.00032
mA HC->HC MI 75V Range 10A
4504.11207 -0.054869378017315
mA -7.75 7.75 Delta : HC->HC MI 75V Range 10A : -950.00
4504.11208 -475.13897
mA -480.38 -469.63 HC->HC FI 75V Range 10A
4504.11209 -0.138974000000019
mA -5.375 5.375 Delta : HC->HC FI 75V Range 10A : -475.00
4504.11210 Exp= -475.13897 Act= -474.95890
mA HC->HC MI 75V Range 10A
4504.11211 0.180075445784837
mA -5.375 5.375 Delta : HC->HC MI 75V Range 10A : -475.00
4504.11212 -0.06020
mA -3 3 HC->HC FI 75V Range 10A
4504.11213 -0.060204659500000
mA -3 3 Delta : HC->HC FI 75V Range 10A : 0.00
4504.11214 Exp= -0.06020 Act= 0.02271
mA HC->HC MI 75V Range 10A

4504.11215 0.082913588429933
mA -3 3 Delta : HC->HC MI 75V Range 10A : 0.00
4504.11216 475.09328
mA 469.63 480.38 HC->HC FI 75V Range 10A
4504.11217 0.093280999999990
mA -5.375 5.375 Delta : HC->HC FI 75V Range 10A : 475.00
4504.11218 Exp= 475.09328 Act= 474.97143
mA HC->HC MI 75V Range 10A
4504.11219 -0.121853864189120
mA -5.375 5.375 Delta : HC->HC MI 75V Range 10A : 475.00
4504.11220 950.07227
mA 942.25 957.75 HC->HC FI 75V Range 10A
4504.11221 0.072265000000016
mA -7.75 7.75 Delta : HC->HC FI 75V Range 10A : 950.00
4504.11222 Exp= 950.07227 Act= 949.98463
mA HC->HC MI 75V Range 10A
4504.11223 -0.087630880319694
mA -7.75 7.75 Delta : HC->HC MI 75V Range 10A : 950.00
4504.11224 -949.94545
mA -954.62 -945.39 HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A
4504.11225 0.054550000000063
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11226 Exp= -949.94545 Act= -950.00032
mA HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A
4504.11227 -0.054869378017315
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11228 -475.13897
mA -478.81 -471.19 HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A
4504.11229 -0.138974000000019
mA -3.8075 3.8075 Delta : HC->HC V/I Mode

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Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11230                                  Exp= -475.13897  Act= -474.95890
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11231                                                   0.180075445784837
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11232                                                             -0.06020
mA                   -3                    3        HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11233                                                  -0.060204659500000
mA                   -3                    3        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11234                                  Exp= -0.06020    Act= 0.02271
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11235                                                   0.082913588429933
mA                   -3                    3        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11236                                                            475.09328
mA               471.19                478.81        HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11237                                                   0.093280999999990
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11238                                  Exp= 475.09328   Act= 474.97143
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11239                                                  -0.121853864189120
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11240                                                            950.07227
mA               945.39                954.62        HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11241                                                   0.072265000000016
mA               -4.615                 4.615        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11242                                  Exp= 950.07227   Act= 949.98463
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
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4504.11243 -0.087630880319694
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11244 -950.01724
mA -953.15 -946.85 HC->HC FI 75V Range 4A
4504.11245 -0.017238000000020
mA -3.15 3.15 Delta : HC->HC FI 75V Range 4A : -950.00
4504.11246 Exp= -950.01724 Act= -949.98760
mA HC->HC MI 75V Range 4A
4504.11247 0.029636598985690
mA -3.15 3.15 Delta : HC->HC MI 75V Range 4A : -950.00
4504.11248 -475.06247
mA -477.2 -472.8 HC->HC FI 75V Range 4A
4504.11249 -0.062472000000014
mA -2.2 2.2 Delta : HC->HC FI 75V Range 4A : -475.00
4504.11250 Exp= -475.06247 Act= -474.98849
mA HC->HC MI 75V Range 4A
4504.11251 0.073977120243285
mA -2.2 2.2 Delta : HC->HC MI 75V Range 4A : -475.00
4504.11252 -0.01794
mA -1.25 1.25 HC->HC FI 75V Range 4A
4504.11253 -0.017935588000000
mA -1.25 1.25 Delta : HC->HC FI 75V Range 4A : 0.00
4504.11254 Exp= -0.01794 Act= 0.00498
mA HC->HC MI 75V Range 4A
4504.11255 0.022911391524576
mA -1.25 1.25 Delta : HC->HC MI 75V Range 4A : 0.00
4504.11256 475.08774
mA 472.8 477.2 HC->HC FI 75V Range 4A
4504.11257 0.087743999999987
mA -2.2 2.2 Delta : HC->HC FI 75V Range 4A : 475.00
4504.11258 Exp= 475.08774 Act= 475.01653
mA HC->HC MI 75V Range 4A

4504.11259 -0.071210405270108
mA -2.2 2.2 Delta : HC->HC MI 75V Range 4A : 475.00
4504.11260 950.08361
mA 946.85 953.15 HC->HC FI 75V Range 4A
4504.11261 0.083613000000014
mA -3.15 3.15 Delta : HC->HC FI 75V Range 4A : 950.00
4504.11262 Exp= 950.08361 Act= 949.99683
mA HC->HC MI 75V Range 4A
4504.11263 -0.086780854933409
mA -3.15 3.15 Delta : HC->HC MI 75V Range 4A : 950.00
4504.11264 -949.94537
mA -957.75 -942.25 HC->HC FI 30V Range 10A
4504.11265 0.054633999999965
mA -7.75 7.75 Delta : HC->HC FI 30V Range 10A : -950.00
4504.11266 Exp= -949.94537 Act= -950.00109
mA HC->HC MI 30V Range 10A
4504.11267 -0.055723945866248
mA -7.75 7.75 Delta : HC->HC MI 30V Range 10A : -950.00
4504.11268 -475.09833
mA -480.38 -469.63 HC->HC FI 30V Range 10A
4504.11269 -0.098330000000033
mA -5.375 5.375 Delta : HC->HC FI 30V Range 10A : -475.00
4504.11270 Exp= -475.09833 Act= -474.94808
mA HC->HC MI 30V Range 10A
4504.11271 0.150245022961542
mA -5.375 5.375 Delta : HC->HC MI 30V Range 10A : -475.00
4504.11272 -0.03365
mA -3 3 HC->HC FI 30V Range 10A
4504.11273 -0.033646487600000
mA -3 3 Delta : HC->HC FI 30V Range 10A : 0.00
4504.11274 Exp= -0.03365 Act= 0.02624
mA HC->HC MI 30V Range 10A

4504.11275 0.059889294270780
mA -3 3 Delta : HC->HC MI 30V Range 10A : 0.00
4504.11276 475.04900
mA 469.63 480.38 HC->HC FI 30V Range 10A
4504.11277 0.049001000000033
mA -5.375 5.375 Delta : HC->HC FI 30V Range 10A : 475.00
4504.11278 Exp= 475.04900 Act= 474.91593
mA HC->HC MI 30V Range 10A
4504.11279 -0.133072873118238
mA -5.375 5.375 Delta : HC->HC MI 30V Range 10A : 475.00
4504.11280 949.98514
mA 942.25 957.75 HC->HC FI 30V Range 10A
4504.11281 -0.014864999999986
mA -7.75 7.75 Delta : HC->HC FI 30V Range 10A : 950.00
4504.11282 Exp= 949.98514 Act= 949.94572
mA HC->HC MI 30V Range 10A
4504.11283 -0.039418122849952
mA -7.75 7.75 Delta : HC->HC MI 30V Range 10A : 950.00
4504.11284 -949.94537
mA -954.62 -945.39 HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.11285 0.054633999999965
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11286 Exp= -949.94537 Act= -950.00109
mA HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.11287 -0.055723945866248
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11288 -475.09833
mA -478.81 -471.19 HC->HC V/I Mode Current Force/Measure with booster check 30V Range 10A
4504.11289 -0.098330000000033
mA -3.8075 3.8075 Delta : HC->HC V/I Mode

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Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11290                                  Exp= -475.09833  Act= -474.94808
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11291                                                   0.150245022961542
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11292                                                             -0.03365
mA                   -3                    3        HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11293                                                   -0.033646487600000
mA                   -3                    3        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11294                                  Exp= -0.03365    Act= 0.02624
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11295                                                   0.059889294270780
mA                   -3                    3        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11296                                                            475.04900
mA               471.19                478.81        HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11297                                                   0.049001000000033
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11298                                  Exp= 475.04900   Act= 474.91593
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11299                                                   -0.133072873118238
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11300                                                            949.98514
mA               945.39                954.62        HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11301                                                   -0.014864999999986
mA               -4.615                 4.615        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11302                                  Exp= 949.98514   Act= 949.94572
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
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4504.11303                                                  -0.039418122849952
mA                -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11304                                                      -950.01913
mA              -953.15               -946.85       HC->HC FI 30V Range 4A
4504.11305                                             -0.019133000000011
mA                -3.15                 3.15       Delta : HC->HC FI 30V Range
4A : -950.00
4504.11306                          Exp= -950.01913  Act= -950.00135
mA                                          HC->HC MI 30V Range 4A
4504.11307                                              0.017786078321365
mA                -3.15                 3.15       Delta : HC->HC MI 30V Range
4A : -950.00
4504.11308                                                      -475.06966
mA              -477.2                -472.8       HC->HC FI 30V Range 4A
4504.11309                                             -0.069659999999999
mA                -2.2                  2.2       Delta : HC->HC FI 30V Range
4A : -475.00
4504.11310                          Exp= -475.06966  Act= -475.00162
mA                                          HC->HC MI 30V Range 4A
4504.11311                                              0.068039158205352
mA                -2.2                  2.2       Delta : HC->HC MI 30V Range
4A : -475.00
4504.11312                                                       -0.03047
mA                -1.25                 1.25       HC->HC FI 30V Range 4A
4504.11313                                             -0.030470554300000
mA                -1.25                 1.25       Delta : HC->HC FI 30V Range
4A : 0.00
4504.11314                          Exp= -0.03047    Act= -0.00714
mA                                          HC->HC MI 30V Range 4A
4504.11315                                              0.023333181014632
mA                -1.25                 1.25       Delta : HC->HC MI 30V Range
4A : 0.00
4504.11316                                                       475.07220
mA                472.8                 477.2       HC->HC FI 30V Range 4A
4504.11317                                              0.072198999999955
mA                -2.2                  2.2       Delta : HC->HC FI 30V Range
4A : 475.00
4504.11318                          Exp= 475.07220   Act= 474.99940
mA                                          HC->HC MI 30V Range 4A
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4504.11319                                                  -0.072794898614177
mA                -2.2                 2.2       Delta : HC->HC MI 30V Range
4A : 475.00
4504.11320                                                       950.05872
mA               946.85               953.15       HC->HC FI 30V Range 4A
4504.11321                                                  0.058721999999989
mA                -3.15                3.15       Delta : HC->HC FI 30V Range
4A : 950.00
4504.11322                          Exp= 950.05872   Act= 949.97318
mA                                          HC->HC MI 30V Range 4A
4504.11323                                            -0.085542745035014
mA                -3.15                3.15       Delta : HC->HC MI 30V Range
4A : 950.00
4504.11324                                                  -950.28756
mA              -957.75              -942.25       HC->HC FI 10V Range 10A
4504.11325                                             -0.287556999999993
mA                -7.75                7.75       Delta : HC->HC FI 10V Range
10A : -950.00
4504.11326                          Exp= -950.28756  Act= -949.97584
mA                                          HC->HC MI 10V Range 10A
4504.11327                                             0.311719847878976
mA                -7.75                7.75       Delta : HC->HC MI 10V Range
10A : -950.00
4504.11328                                                  -474.53244
mA              -480.38              -469.63       HC->HC FI 10V Range 10A
4504.11329                                             0.467556999999999
mA               -5.375               5.375       Delta : HC->HC FI 10V Range
10A : -475.00
4504.11330                          Exp= -474.53244  Act= -474.93354
mA                                          HC->HC MI 10V Range 10A
4504.11331                                            -0.401094494179461
mA               -5.375               5.375       Delta : HC->HC MI 10V Range
10A : -475.00
4504.11332                                                   -0.07378
mA                  -3                   3       HC->HC FI 10V Range 10A
4504.11333                                            -0.073782926500000
mA                  -3                   3       Delta : HC->HC FI 10V Range
10A : 0.00
4504.11334                          Exp= -0.07378    Act= -0.01705
mA                                          HC->HC MI 10V Range 10A
```

4504.11335 0.056730266669267
mA -3 3 Delta : HC->HC MI 10V Range 10A : 0.00
4504.11336 474.66289
mA 469.63 480.38 HC->HC FI 10V Range 10A
4504.11337 -0.337106000000006
mA -5.375 5.375 Delta : HC->HC FI 10V Range 10A : 475.00
4504.11338 Exp= 474.66289 Act= 474.93471
mA HC->HC MI 10V Range 10A
4504.11339 0.271817875371767
mA -5.375 5.375 Delta : HC->HC MI 10V Range 10A : 475.00
4504.11340 950.25930
mA 942.25 957.75 HC->HC FI 10V Range 10A
4504.11341 0.259304000000043
mA -7.75 7.75 Delta : HC->HC FI 10V Range 10A : 950.00
4504.11342 Exp= 950.25930 Act= 949.96896
mA HC->HC MI 10V Range 10A
4504.11343 -0.290347192909053
mA -7.75 7.75 Delta : HC->HC MI 10V Range 10A : 950.00
4504.11344 -950.28756
mA -954.62 -945.39 HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.11345 -0.287556999999993
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11346 Exp= -950.28756 Act= -949.97584
mA HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.11347 0.311719847878976
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11348 -474.53244
mA -478.81 -471.19 HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A
4504.11349 0.467556999999999
mA -3.8075 3.8075 Delta : HC->HC V/I Mode

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Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11350                                  Exp= -474.53244  Act= -474.93354
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11351                                                  -0.401094494179461
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11352                                                           -0.07378
mA                   -3                    3        HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11353                                                  -0.073782926500000
mA                   -3                    3        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11354                                  Exp= -0.07378    Act= -0.01705
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11355                                                   0.056730266669267
mA                   -3                    3        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11356                                                         474.66289
mA               471.19                478.81        HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11357                                                  -0.337106000000006
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11358                                  Exp= 474.66289   Act= 474.93471
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11359                                                   0.271817875371767
mA              -3.8075               3.8075        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11360                                                         950.25930
mA               945.39                954.62        HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11361                                                   0.259304000000043
mA               -4.615                 4.615        Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11362                                  Exp= 950.25930   Act= 949.96896
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
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4504.11363 -0.290347192909053
mA -4.615 4.615 Delta : HC->HC V/I Mode Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11364 -950.03912
mA -953.15 -946.85 HC->HC FI 10V Range 4A
4504.11365 -0.039124000000015
mA -3.15 3.15 Delta : HC->HC FI 10V Range 4A : -950.00
4504.11366 Exp= -950.03912 Act= -949.98845
mA HC->HC MI 10V Range 4A
4504.11367 0.050676304501849
mA -3.15 3.15 Delta : HC->HC MI 10V Range 4A : -950.00
4504.11368 -474.99490
mA -477.2 -472.8 HC->HC FI 10V Range 4A
4504.11369 0.005102000000022
mA -2.2 2.2 Delta : HC->HC FI 10V Range 4A : -475.00
4504.11370 Exp= -474.99490 Act= -474.98052
mA HC->HC MI 10V Range 4A
4504.11371 0.014381862299501
mA -2.2 2.2 Delta : HC->HC MI 10V Range 4A : -475.00
4504.11372 -0.01629
mA -1.25 1.25 HC->HC FI 10V Range 4A
4504.11373 -0.016293921900000
mA -1.25 1.25 Delta : HC->HC FI 10V Range 4A : 0.00
4504.11374 Exp= -0.01629 Act= 0.01634
mA HC->HC MI 10V Range 4A
4504.11375 0.032629878634110
mA -1.25 1.25 Delta : HC->HC MI 10V Range 4A : 0.00
4504.11376 475.02306
mA 472.8 477.2 HC->HC FI 10V Range 4A
4504.11377 0.023061000000041
mA -2.2 2.2 Delta : HC->HC FI 10V Range 4A : 475.00
4504.11378 Exp= 475.02306 Act= 475.01666
mA HC->HC MI 10V Range 4A

4504.11379 -0.006398324226325
mA -2.2 2.2 Delta : HC->HC MI 10V Range 4A : 475.00
4504.11380 950.06045
mA 946.85 953.15 HC->HC FI 10V Range 4A
4504.11381 0.060451000000057
mA -3.15 3.15 Delta : HC->HC FI 10V Range 4A : 950.00
4504.11382 Exp= 950.06045 Act= 949.97162
mA HC->HC MI 10V Range 4A
4504.11383 -0.088828401916317
mA -3.15 3.15 Delta : HC->HC MI 10V Range 4A : 950.00
4505.10000 HC relays verified
DIB HC Relays Check
4505.10001 0
status 0 DIB HC Relays Check
4505.10002 Exp= -9.50015 Act= -9.50014
V LC->LC MV PGA 100V Range 10X
4505.10003 0.000007976058397
V -0.008375 0.008375 Delta : LC->LC MV PGA 100V Range 10X : -9.50
4505.10004 Exp= 0.00039 Act= 0.00043
V LC->LC MV PGA 100V Range 10X
4505.10005 0.000037009100477
V -0.006 0.006 Delta : LC->LC MV PGA 100V Range 10X : 0.00
4505.10006 Exp= 9.50001 Act= 9.50007
V LC->LC MV PGA 100V Range 10X
4505.10007 0.000056978638920
V -0.008375 0.008375 Delta : LC->LC MV PGA 100V Range 10X : 9.50
4505.10008 Exp= -0.94985 Act= -0.94981
V LC->LC MV PGA 100V Range 100X
4505.10009 0.000036392760412
V -0.0062375 0.0062375 Delta : LC->LC MV PGA 100V Range 100X : -0.95
4505.10010 Exp= 0.00042 Act= 0.00044
V LC->LC MV PGA 100V Range 100X
4505.10011 0.000023516906955

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V                -0.006                0.006        Delta : LC->LC MV PGA 100V
Range 100X : 0.00
4505.10012                                  Exp= 0.95056     Act= 0.95053
V                                                LC->LC MV PGA 100V Range 100X
4505.10013                                              -0.000028726632515
V            -0.0062375            0.0062375        Delta : LC->LC MV PGA 100V
Range 100X : 0.95
4505.10014                                  Exp= -2.84990    Act= -2.84994
V                                                LC->LC MV PGA 30V Range 10X
4505.10015                                              -0.000035824791013
V            -0.0027125            0.0027125        Delta : LC->LC MV PGA 30V Range
10X : -2.85
4505.10016                                  Exp= 0.00007     Act= 0.00006
V                                                LC->LC MV PGA 30V Range 10X
4505.10017                                              -0.000002624800493
V                -0.002                0.002        Delta : LC->LC MV PGA 30V Range
10X : 0.00
4505.10018                                  Exp= 2.85024     Act= 2.85023
V                                                LC->LC MV PGA 30V Range 10X
4505.10019                                              -0.000009266494761
V            -0.0027125            0.0027125        Delta : LC->LC MV PGA 30V Range
10X : 2.85
4505.10020                                  Exp= -0.28507    Act= -0.28508
V                                                LC->LC MV PGA 30V Range 100X
4505.10021                                              -0.000002837763595
V           -0.00207125           0.00207125        Delta : LC->LC MV PGA 30V Range
100X : -0.29
4505.10022                                  Exp= 0.00007     Act= 0.00007
V                                                LC->LC MV PGA 30V Range 100X
4505.10023                                              -0.000002739861766
V                -0.002                0.002        Delta : LC->LC MV PGA 30V Range
100X : 0.00
4505.10024                                  Exp= 0.28519     Act= 0.28517
V                                                LC->LC MV PGA 30V Range 100X
4505.10025                                              -0.000017533405124
V           -0.00207125           0.00207125        Delta : LC->LC MV PGA 30V Range
100X : 0.29
4505.10026                                  Exp= -0.94998    Act= -0.95000
V                                                LC->LC MV PGA 10V Range 10X
4505.10027                                              -0.000017081741989
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V           -0.0008375          0.0008375       Delta : LC->LC MV PGA 10V Range
10X : -0.95
4505.10028                              Exp= 0.00008     Act= 0.00007
V                                               LC->LC MV PGA 10V Range 10X
4505.10029                                              -0.000009260062587
V              -0.0006              0.0006       Delta : LC->LC MV PGA 10V Range
10X : 0.00
4505.10030                              Exp= 0.95006     Act= 0.95005
V                                               LC->LC MV PGA 10V Range 10X
4505.10031                                              -0.000011793178182
V           -0.0008375          0.0008375       Delta : LC->LC MV PGA 10V Range
10X : 0.95
4505.10032                              Exp= -0.09495    Act= -0.09495
V                                               LC->LC MV PGA 10V Range 100X
4505.10033                                              -0.000001989502164
V          -0.00062375          0.00062375      Delta : LC->LC MV PGA 10V Range
100X : -0.10
4505.10034                              Exp= 0.00008     Act= 0.00008
V                                               LC->LC MV PGA 10V Range 100X
4505.10035                                              -0.000006202954884
V              -0.0006              0.0006       Delta : LC->LC MV PGA 10V Range
100X : 0.00
4505.10036                              Exp= 0.09504     Act= 0.09504
V                                               LC->LC MV PGA 10V Range 100X
4505.10037                                              -0.000001420634461
V          -0.00062375          0.00062375      Delta : LC->LC MV PGA 10V Range
100X : 0.10
4505.10038                              Exp= -7.00044    Act= -7.00035
V                                               HC->HC MV PGA 75V Range 10X
4505.10039                                               0.000087608104043
V            -0.00775             0.00775       Delta : HC->HC MV PGA 75V Range
10X : -7.00
4505.10040                              Exp= 0.00043     Act= 0.00046
V                                               HC->HC MV PGA 75V Range 10X
4505.10041                                               0.000035219764000
V              -0.006               0.006       Delta : HC->HC MV PGA 75V Range
10X : 0.00
4505.10042                              Exp= 7.00045     Act= 7.00040
V                                               HC->HC MV PGA 75V Range 10X
4505.10043                                              -0.000044234146525
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V              -0.00775              0.00775       Delta : HC->HC MV PGA 75V Range
10X : 7.00
4505.10044                                 Exp= -0.69966    Act= -0.69966
V                                                HC->HC MV PGA 75V Range 100X
4505.10045                                                0.000002808156068
V             -0.003175             0.003175       Delta : HC->HC MV PGA 75V Range
100X : -0.70
4505.10046                                 Exp= 0.00044     Act= 0.00042
V                                                HC->HC MV PGA 75V Range 100X
4505.10047                                               -0.000025198071017
V                -0.003                0.003       Delta : HC->HC MV PGA 75V Range
100X : 0.00
4505.10048                                 Exp= 0.70041     Act= 0.70039
V                                                HC->HC MV PGA 75V Range 100X
4505.10049                                               -0.000015937509976
V             -0.003175             0.003175       Delta : HC->HC MV PGA 75V Range
100X : 0.70
4505.10050                                 Exp= -2.79990    Act= -2.79991
V                                                HC->HC MV PGA 30V Range 10X
4505.10051                                               -0.000009221533298
V               -0.0027               0.0027       Delta : HC->HC MV PGA 30V Range
10X : -2.80
4505.10052                                 Exp= 0.00004     Act= 0.00004
V                                                HC->HC MV PGA 30V Range 10X
4505.10053                                               -0.000003086900530
V                -0.002                0.002       Delta : HC->HC MV PGA 30V Range
10X : 0.00
4505.10054                                 Exp= 2.80017     Act= 2.80015
V                                                HC->HC MV PGA 30V Range 10X
4505.10055                                               -0.000018103573061
V               -0.0027               0.0027       Delta : HC->HC MV PGA 30V Range
10X : 2.80
4505.10056                                 Exp= -0.27994    Act= -0.27996
V                                                HC->HC MV PGA 30V Range 100X
4505.10057                                               -0.000019728931319
V              -0.00107              0.00107       Delta : HC->HC MV PGA 30V Range
100X : -0.28
4505.10058                                 Exp= 0.00003     Act= 0.00003
V                                                HC->HC MV PGA 30V Range 100X
4505.10059                                               -0.000001883269955
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V                -0.001                  0.001       Delta : HC->HC MV PGA 30V Range
100X : 0.00
4505.10060                                   Exp= 0.28021     Act= 0.28021
V                                                    HC->HC MV PGA 30V Range 100X
4505.10061                                                  -0.000002871917520
V              -0.00107                 0.00107       Delta : HC->HC MV PGA 30V Range
100X : 0.28
4505.10062                                   Exp= -0.84997    Act= -0.84997
V                                                    HC->HC MV PGA 10V Range 10X
4505.10063                                                  -0.000001787306944
V            -0.0008125               0.0008125       Delta : HC->HC MV PGA 10V Range
10X : -0.85
4505.10064                                   Exp= 0.00004     Act= 0.00004
V                                                    HC->HC MV PGA 10V Range 10X
4505.10065                                                  -0.000008039071713
V               -0.0006                  0.0006      Delta : HC->HC MV PGA 10V Range
10X : 0.00
4505.10066                                   Exp= 0.85004     Act= 0.85003
V                                                    HC->HC MV PGA 10V Range 10X
4505.10067                                                  -0.000009930784531
V            -0.0008125               0.0008125       Delta : HC->HC MV PGA 10V Range
10X : 0.85
4505.10068                                   Exp= -0.08500    Act= -0.08500
V                                                    HC->HC MV PGA 10V Range 100X
4505.10069                                                  -0.000001957504095
V           -0.00032125              0.00032125       Delta : HC->HC MV PGA 10V Range
100X : -0.09
4505.10070                                   Exp= 0.00005     Act= 0.00003
V                                                    HC->HC MV PGA 10V Range 100X
4505.10071                                                  -0.000017096140436
V               -0.0003                  0.0003      Delta : HC->HC MV PGA 10V Range
100X : 0.00
4505.10072                                   Exp= 0.08508     Act= 0.08507
V                                                    HC->HC MV PGA 10V Range 100X
4505.10073                                                  -0.000011891812508
V           -0.00032125              0.00032125       Delta : HC->HC MV PGA 10V Range
100X : 0.09
4506.10000                                                  HC relays verified
DIB HC Relays Check
4506.10001                                                                      0
```

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status                                          0       DIB HC Relays Check
4506.10002                                Exp= -0.79985    Act= -0.79985
V                                               MV Pedestal LC 0V Pedestal
4506.10003                                                -0.000001397847814
V             -0.00033          0.00033       Delta : MV Pedestal LC 0V
Pedestal : -0.80
4506.10004                                Exp= -0.39980    Act= -0.39980
V                                               MV Pedestal LC 0V Pedestal
4506.10005                                                -0.000002550111263
V             -0.00029          0.00029       Delta : MV Pedestal LC 0V
Pedestal : -0.40
4506.10006                                Exp= 0.00028     Act= 0.00028
V                                               MV Pedestal LC 0V Pedestal
4506.10007                                                 0.000005648401095
V             -0.00025          0.00025       Delta : MV Pedestal LC 0V
Pedestal : 0.00
4506.10008                                Exp= 0.40026     Act= 0.40027
V                                               MV Pedestal LC 0V Pedestal
4506.10009                                                 0.000006614836535
V             -0.00029          0.00029       Delta : MV Pedestal LC 0V
Pedestal : 0.40
4506.10010                                Exp= 0.80033     Act= 0.80034
V                                               MV Pedestal LC 0V Pedestal
4506.10011                                                 0.000002397336212
V             -0.00033          0.00033       Delta : MV Pedestal LC 0V
Pedestal : 0.80
4506.10012                                Exp= 0.30028     Act= 0.30027
V                                               MV Pedestal LC 1V Pedestal
4506.10013                                                -0.000002281183428
V             -0.00028          0.00028       Delta : MV Pedestal LC 1V
Pedestal : 0.30
4506.10014                                Exp= 0.60031     Act= 0.60030
V                                               MV Pedestal LC 1V Pedestal
4506.10015                                                -0.000003849323065
V             -0.00031          0.00031       Delta : MV Pedestal LC 1V
Pedestal : 0.60
4506.10016                                Exp= 1.00037     Act= 1.00038
V                                               MV Pedestal LC 1V Pedestal
4506.10017                                                 0.000009163517650
V             -0.00035          0.00035       Delta : MV Pedestal LC 1V
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Pedestal : 1.00
4506.10018                              Exp= 1.30038     Act= 1.30038
V                                               MV Pedestal LC 1V Pedestal
4506.10019                                              0.000002469835088
V             -0.00038          0.00038       Delta : MV Pedestal LC 1V
Pedestal : 1.30
4506.10020                              Exp= 1.70047     Act= 1.70046
V                                               MV Pedestal LC 1V Pedestal
4506.10021                                             -0.000001428771187
V             -0.00042          0.00042       Delta : MV Pedestal LC 1V
Pedestal : 1.70
4506.10022                              Exp= 2.40044     Act= 2.40043
V                                               MV Pedestal LC 3V Pedestal
4506.10023                                             -0.000008955130248
V             -0.00049          0.00049       Delta : MV Pedestal LC 3V
Pedestal : 2.40
4506.10024                              Exp= 2.70045     Act= 2.70043
V                                               MV Pedestal LC 3V Pedestal
4506.10025                                             -0.000015171893670
V             -0.00052          0.00052       Delta : MV Pedestal LC 3V
Pedestal : 2.70
4506.10026                              Exp= 3.00048     Act= 3.00047
V                                               MV Pedestal LC 3V Pedestal
4506.10027                                             -0.000013242984371
V             -0.00055          0.00055       Delta : MV Pedestal LC 3V
Pedestal : 3.00
4506.10028                              Exp= 3.30050     Act= 3.30051
V                                               MV Pedestal LC 3V Pedestal
4506.10029                                              0.000008169852296
V             -0.00058          0.00058       Delta : MV Pedestal LC 3V
Pedestal : 3.30
4506.10030                              Exp= 3.60047     Act= 3.60046
V                                               MV Pedestal LC 3V Pedestal
4506.10031                                             -0.000004085212607
V             -0.00061          0.00061       Delta : MV Pedestal LC 3V
Pedestal : 3.60
4506.10032                              Exp= 4.30054     Act= 4.30055
V                                               MV Pedestal LC 5V Pedestal
4506.10033                                              0.000008171169287
V             -0.00068          0.00068       Delta : MV Pedestal LC 5V
```

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Pedestal : 4.30
4506.10034                              Exp= 4.60049     Act= 4.60049
V                                               MV Pedestal LC 5V Pedestal
4506.10035                                              -0.000000619142097
V             -0.00071              0.00071       Delta : MV Pedestal LC 5V
Pedestal : 4.60
4506.10036                              Exp= 5.00055     Act= 5.00053
V                                               MV Pedestal LC 5V Pedestal
4506.10037                                              -0.000016244756123
V             -0.00075              0.00075       Delta : MV Pedestal LC 5V
Pedestal : 5.00
4506.10038                              Exp= 5.30056     Act= 5.30055
V                                               MV Pedestal LC 5V Pedestal
4506.10039                                              -0.000010188575837
V             -0.00078              0.00078       Delta : MV Pedestal LC 5V
Pedestal : 5.30
4506.10040                              Exp= 5.70056     Act= 5.70055
V                                               MV Pedestal LC 5V Pedestal
4506.10041                                              -0.000009574733784
V             -0.00082              0.00082       Delta : MV Pedestal LC 5V
Pedestal : 5.70
4507.11000                                              HC relays verified
DIB HC Relays Check
4507.11001                                                              0
status                                          0       DIB HC Relays Check
4507.11002                              Exp= -47.49223   Act= -47.49194
mA                                              LC->LC MI PGA 100V Range 500mA
10X
4507.11003                                              0.000288855003561
mA            -0.08375               0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : -47.50
4507.11004                              Exp= 0.01047     Act= 0.01071
mA                                              LC->LC MI PGA 100V Range 500mA
10X
4507.11005                                              0.000246942719580
mA                  -0.06                0.06       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 0.00
4507.11006                              Exp= 47.51027    Act= 47.51078
mA                                              LC->LC MI PGA 100V Range 500mA
10X
```

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4507.11007                                                    0.000509494760443
mA              -0.08375              0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 47.50
4507.11008                                Exp= -4.74210    Act= -4.74158
mA                                                LC->LC MI PGA 100V Range 500mA
100X
4507.11009                                                    0.000525905445117
mA              -0.062375             0.062375      Delta : LC->LC MI PGA 100V
Range 500mA 100X : -4.75
4507.11010                                Exp= 0.00991     Act= 0.01088
mA                                                LC->LC MI PGA 100V Range 500mA
100X
4507.11011                                                    0.000965018219823
mA                  -0.06                 0.06      Delta : LC->LC MI PGA 100V
Range 500mA 100X : 0.00
4507.11012                                Exp= 4.75941     Act= 4.75951
mA                                                LC->LC MI PGA 100V Range 500mA
100X
4507.11013                                                    0.000100247257537
mA              -0.062375             0.062375      Delta : LC->LC MI PGA 100V
Range 500mA 100X : 4.75
4507.11014                                Exp= -94.98665   Act= -94.98604
mA                                                LC->LC MI PGA 30V Range 1A 10X
4507.11015                                                    0.000607329999667
mA                -0.1075               0.1075      Delta : LC->LC MI PGA 30V
Range 1A 10X : -95.00
4507.11016                                Exp= 0.01357     Act= 0.01514
mA                                                LC->LC MI PGA 30V Range 1A 10X
4507.11017                                                    0.001577609643398
mA                  -0.06                 0.06      Delta : LC->LC MI PGA 30V
Range 1A 10X : 0.00
4507.11018                                Exp= 95.00793    Act= 95.00824
mA                                                LC->LC MI PGA 30V Range 1A 10X
4507.11019                                                    0.000301868337175
mA                -0.1075               0.1075      Delta : LC->LC MI PGA 30V
Range 1A 10X : 95.00
4507.11020                                Exp= -9.49190    Act= -9.49212
mA                                                LC->LC MI PGA 30V Range 1A
100X
4507.11021                                                   -0.000215060991051
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mA              -0.06475              0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : -9.50
4507.11022                                Exp= 0.01269     Act= 0.01361
mA                                                 LC->LC MI PGA 30V Range 1A
100X
4507.11023                                                      0.000925416802394
mA                -0.06                 0.06       Delta : LC->LC MI PGA 30V
Range 1A 100X : 0.00
4507.11024                                Exp= 9.51055     Act= 9.51185
mA                                                 LC->LC MI PGA 30V Range 1A
100X
4507.11025                                                      0.001299536850429
mA              -0.06475              0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : 9.50
4507.11026                                Exp= -9.49970    Act= -9.49948
mA                                                 LC->LC MI PGA 30V Range 100mA
10X
4507.11027                                                      0.000224995258387
mA              -0.01075              0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : -9.50
4507.11028                                Exp= 0.00031     Act= 0.00046
mA                                                 LC->LC MI PGA 30V Range 100mA
10X
4507.11029                                                      0.000150246852222
mA               -0.006                 0.006       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 0.00
4507.11030                                Exp= 9.50060     Act= 9.50078
mA                                                 LC->LC MI PGA 30V Range 100mA
10X
4507.11031                                                      0.000175259834830
mA              -0.01075              0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 9.50
4507.11032                                Exp= -949.73849  Act= -949.59181
uA                                                 LC->LC MI PGA 30V Range 100mA
100X
4507.11033                                                      0.146675494511328
uA                -6.475                6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : -950.00
4507.11034                                Exp= 0.40326     Act= 0.56704
uA                                                 LC->LC MI PGA 30V Range 100mA
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100X
4507.11035                                                  0.163779225201837
uA                    -6          6       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 0.00
4507.11036                        Exp= 950.67837   Act= 950.75016
uA                                        LC->LC MI PGA 30V Range 100mA
100X
4507.11037                                                  0.071794502803073
uA                -6.475        6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 950.00
4507.11038                        Exp= -949.90327  Act= -949.91415
uA                                        LC->LC MI PGA 30V Range 10mA
10X
4507.11039                                                 -0.010878505823030
uA                -1.075        1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : -950.00
4507.11040                        Exp= 0.09462     Act= 0.10068
uA                                        LC->LC MI PGA 30V Range 10mA
10X
4507.11041                                                  0.006062036023876
uA                  -0.6          0.6       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 0.00
4507.11042                        Exp= 950.12257   Act= 950.13314
uA                                        LC->LC MI PGA 30V Range 10mA
10X
4507.11043                                                  0.010572136889209
uA                -1.075        1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 950.00
4507.11044                        Exp= -189.99238  Act= -189.99117
mA                                        LC->LC MI PGA 10V Range 2A 10X
4507.11045                                                  0.001215637382955
mA                 -0.22         0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : -190.00
4507.11046                        Exp= 0.00675     Act= 0.01129
mA                                        LC->LC MI PGA 10V Range 2A 10X
4507.11047                                                  0.004538424147461
mA                -0.125        0.125       Delta : LC->LC MI PGA 10V
Range 2A 10X : 0.00
4507.11048                        Exp= 190.01340   Act= 190.01479
mA                                        LC->LC MI PGA 10V Range 2A 10X
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4507.11049                                                  0.001390077594095
mA                -0.22                0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : 190.00
4507.11050                                 Exp= -18.99246   Act= -18.98960
mA                                                 LC->LC MI PGA 10V Range 2A
100X
4507.11051                                                  0.002865775716291
mA               -0.1345              0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : -19.00
4507.11052                                 Exp= 0.01551     Act= 0.01814
mA                                                 LC->LC MI PGA 10V Range 2A
100X
4507.11053                                                  0.002634113159662
mA                -0.125               0.125       Delta : LC->LC MI PGA 10V
Range 2A 100X : 0.00
4507.11054                                 Exp= 19.01079    Act= 19.01407
mA                                                 LC->LC MI PGA 10V Range 2A
100X
4507.11055                                                  0.003276874504632
mA               -0.1345              0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : 19.00
4507.11056                                 Exp= -18.99350   Act= -18.99272
mA                                                 LC->LC MI PGA 10V Range 200mA
10X
4507.11057                                                  0.000780824489265
mA               -0.0215              0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : -19.00
4507.11058                                 Exp= 0.00689     Act= 0.00713
mA                                                 LC->LC MI PGA 10V Range 200mA
10X
4507.11059                                                  0.000234481460324
mA                -0.012               0.012       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 0.00
4507.11060                                 Exp= 19.00819    Act= 19.00837
mA                                                 LC->LC MI PGA 10V Range 200mA
10X
4507.11061                                                  0.000182884079734
mA               -0.0215              0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 19.00
4507.11062                                 Exp= -1.89133    Act= -1.89114
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mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11063                                                  0.000195644940931
mA              -0.01295            0.01295       Delta : LC->LC MI PGA 10V
Range 200mA 100X : -1.90
4507.11064                              Exp= 0.00742     Act= 0.00768
mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11065                                                  0.000250384751301
mA                -0.012              0.012       Delta : LC->LC MI PGA 10V
Range 200mA 100X : 0.00
4507.11066                              Exp= 1.90747     Act= 1.90784
mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11067                                                  0.000375688916898
mA              -0.01295            0.01295       Delta : LC->LC MI PGA 10V
Range 200mA 100X : 1.90
4507.11068                              Exp= -1.89948    Act= -1.89945
mA                                                  LC->LC MI PGA 10V Range 20mA
10X
4507.11069                                                  0.000031131533987
mA              -0.00215            0.00215       Delta : LC->LC MI PGA 10V
Range 20mA 10X : -1.90
4507.11070                              Exp= 0.00053     Act= 0.00058
mA                                                  LC->LC MI PGA 10V Range 20mA
10X
4507.11071                                                  0.000047892666991
mA               -0.0012             0.0012       Delta : LC->LC MI PGA 10V
Range 20mA 10X : 0.00
4507.11072                              Exp= 1.90058     Act= 1.90062
mA                                                  LC->LC MI PGA 10V Range 20mA
10X
4507.11073                                                  0.000046955696581
mA              -0.00215            0.00215       Delta : LC->LC MI PGA 10V
Range 20mA 10X : 1.90
4507.11074                              Exp= -663.16009  Act= -662.97897
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11075                                                  0.181119571756540
mA               -18.325             18.325       Delta : HC->HC MI PGA 75V
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Range 100A 10X : -665.00
4507.11076                                  Exp= -0.53765    Act= -0.35877
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11077                                                  0.178871627774337
mA                  -15                     15      Delta : HC->HC MI PGA 75V
Range 100A 10X : 0.00
4507.11078                                  Exp= 661.90881   Act= 662.15138
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11079                                                  0.242579032170966
mA              -18.325                 18.325      Delta : HC->HC MI PGA 75V
Range 100A 10X : 665.00
4507.11080                                  Exp= -663.13130  Act= -663.03126
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11081                                                  0.100032152493782
mA              -10.825                 10.825      Delta : HC->HC MI PGA 75V
Range 100A 100X : -665.00
4507.11082                                  Exp= -0.45533    Act= -0.39972
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11083                                                  0.055612348448960
mA                -7.5                   7.5      Delta : HC->HC MI PGA 75V
Range 100A 100X : 0.00
4507.11084                                  Exp= 661.94955   Act= 662.02202
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11085                                                  0.072473154579029
mA              -10.825                 10.825      Delta : HC->HC MI PGA 75V
Range 100A 100X : 665.00
4507.11086                                  Exp= -665.34588  Act= -665.36160
mA                                                  HC->HC MI PGA 75V Range 10A
10X
4507.11087                                                 -0.015719619466267
mA               -4.825                  4.825      Delta : HC->HC MI PGA 75V
Range 10A 10X : -665.00
4507.11088                                  Exp= -0.04031    Act= -0.01231
mA                                                  HC->HC MI PGA 75V Range 10A
10X
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4507.11089 0.028006073992915
mA -1.5 1.5 Delta : HC->HC MI PGA 75V
Range 10A 10X : 0.00
4507.11090 Exp= 665.35637 Act= 665.32561
mA HC->HC MI PGA 75V Range 10A
10X
4507.11091 -0.030754725414795
mA -4.825 4.825 Delta : HC->HC MI PGA 75V
Range 10A 10X : 665.00
4507.11092 Exp= -665.34588 Act= -665.36160
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11093 -0.015719619466267
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : -665.00
4507.11094 Exp= -0.04031 Act= -0.01231
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11095 0.028006073992915
mA -1.5 1.5 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 0.00
4507.11096 Exp= 665.35637 Act= 665.32561
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11097 -0.030754725414795
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 665.00
4507.11098 Exp= -66.45291 Act= -66.46225
mA HC->HC MI PGA 75V Range 10A
100X
4507.11099 -0.009338902423053
mA -1.0825 1.0825 Delta : HC->HC MI PGA 75V
Range 10A 100X : -66.50
4507.11100 Exp= -0.07096 Act= -0.06836
mA HC->HC MI PGA 75V Range 10A
100X
4507.11101 0.002597328828015
mA -0.75 0.75 Delta : HC->HC MI PGA 75V
Range 10A 100X : 0.00
4507.11102 Exp= 66.31500 Act= 66.30603

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mA                                                    HC->HC MI PGA 75V Range 10A
100X
4507.11103                                                  -0.008974548312736
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 75V
Range 10A 100X : 66.50
4507.11104                                Exp= -66.45291   Act= -66.46225
mA                                                    HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11105                                                  -0.009338902423053
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : -66.50
4507.11106                                Exp= -0.07096    Act= -0.06836
mA                                                    HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11107                                                   0.002597328828015
mA                -0.75                 0.75       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 0.00
4507.11108                                Exp= 66.31500    Act= 66.30603
mA                                                    HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11109                                                  -0.008974548312736
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 66.50
4507.11110                                Exp= -266.08284  Act= -266.07753
mA                                                    HC->HC MI PGA 75V Range 4A 10X
4507.11111                                                   0.005305023375684
mA              -1.157                1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : -266.00
4507.11112                                Exp= -0.01450    Act= -0.01867
mA                                                    HC->HC MI PGA 75V Range 4A 10X
4507.11113                                                  -0.004173223756591
mA              -0.625                0.625       Delta : HC->HC MI PGA 75V
Range 4A 10X : 0.00
4507.11114                                Exp= 266.05707   Act= 266.03896
mA                                                    HC->HC MI PGA 75V Range 4A 10X
4507.11115                                                  -0.018111817555734
mA              -1.157                1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : 266.00
4507.11116                                Exp= -26.60718   Act= -26.61330
mA                                                    HC->HC MI PGA 75V Range 4A
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100X
4507.11117                                                  -0.006118916382455
mA              -0.3652             0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : -26.60
4507.11118                      Exp= -0.00264    Act= -0.01106
mA                                       HC->HC MI PGA 75V Range 4A
100X
4507.11119                                                  -0.008419154266427
mA               -0.312              0.312       Delta : HC->HC MI PGA 75V
Range 4A 100X : 0.00
4507.11120                      Exp= 26.57448    Act= 26.55800
mA                                       HC->HC MI PGA 75V Range 4A
100X
4507.11121                                                  -0.016476840700054
mA              -0.3652             0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : 26.60
4507.11122                      Exp= -662.94408  Act= -663.15856
mA                                       HC->HC MI PGA 30V Range 100A
10X
4507.11123                                                  -0.214480944241473
mA              -18.325             18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : -665.00
4507.11124                      Exp= -0.50773    Act= -0.57108
mA                                       HC->HC MI PGA 30V Range 100A
10X
4507.11125                                                  -0.063350164090579
mA                 -15                15        Delta : HC->HC MI PGA 30V
Range 100A 10X : 0.00
4507.11126                      Exp= 661.95720   Act= 661.87576
mA                                       HC->HC MI PGA 30V Range 100A
10X
4507.11127                                                  -0.081446861440099
mA              -18.325             18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : 665.00
4507.11128                      Exp= -662.99906  Act= -663.13864
mA                                       HC->HC MI PGA 30V Range 100A
100X
4507.11129                                                  -0.139576119388721
mA              -10.825             10.825       Delta : HC->HC MI PGA 30V
Range 100A 100X : -665.00
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4507.11130                                  Exp= -0.49127    Act= -0.46343
mA                                                HC->HC MI PGA 30V Range 100A
100X
4507.11131                                                  0.027839206160099
mA                -7.5                7.5       Delta : HC->HC MI PGA 30V
Range 100A 100X : 0.00
4507.11132                                  Exp= 661.88830   Act= 662.12452
mA                                                HC->HC MI PGA 30V Range 100A
100X
4507.11133                                                  0.236217758179805
mA              -10.825              10.825       Delta : HC->HC MI PGA 30V
Range 100A 100X : 665.00
4507.11134                                  Exp= -665.34600  Act= -665.27547
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11135                                                  0.070530383262053
mA               -4.825               4.825       Delta : HC->HC MI PGA 30V
Range 10A 10X : -665.00
4507.11136                                  Exp= -0.01960    Act= 0.04469
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11137                                                  0.064294592091947
mA                -1.5                1.5       Delta : HC->HC MI PGA 30V
Range 10A 10X : 0.00
4507.11138                                  Exp= 665.38238   Act= 665.35409
mA                                                HC->HC MI PGA 30V Range 10A
10X
4507.11139                                                 -0.028291951531514
mA               -4.825               4.825       Delta : HC->HC MI PGA 30V
Range 10A 10X : 665.00
4507.11140                                  Exp= -665.34600  Act= -665.27547
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11141                                                  0.070530383262053
mA              -2.6305              2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : -665.00
4507.11142                                  Exp= -0.01960    Act= 0.04469
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11143                                                  0.064294592091947
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mA                -1.5                  1.5       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 0.00
4507.11144                                  Exp= 665.38238   Act= 665.35409
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11145                                                  -0.028291951531514
mA             -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 665.00
4507.11146                                  Exp= -66.50247   Act= -66.51491
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11147                                                  -0.012441047762806
mA             -1.0825               1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : -66.50
4507.11148                                  Exp= -0.05542    Act= -0.04293
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11149                                                   0.012488430433502
mA                -0.75                 0.75       Delta : HC->HC MI PGA 30V
Range 10A 100X : 0.00
4507.11150                                  Exp= 66.33376    Act= 66.33799
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11151                                                   0.004233585325778
mA             -1.0825               1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : 66.50
4507.11152                                  Exp= -66.50247   Act= -66.51491
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11153                                                  -0.012441047762806
mA            -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : -66.50
4507.11154                                  Exp= -0.05542    Act= -0.04293
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11155                                                   0.012488430433502
mA                -0.75                 0.75       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 0.00
4507.11156                                  Exp= 66.33376    Act= 66.33799
mA                                                HC->HC MI With booster
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improved cal check 30V Range 10A 100X
4507.11157                                                    0.004233585325778
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 66.50
4507.11158                                  Exp= -266.07935  Act= -266.06964
mA                                                  HC->HC MI PGA 30V Range 4A 10X
4507.11159                                                   0.009707690644063
mA               -1.157               1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : -266.00
4507.11160                                  Exp= -0.04806    Act= -0.03416
mA                                                  HC->HC MI PGA 30V Range 4A 10X
4507.11161                                                   0.013900498536128
mA               -0.625               0.625       Delta : HC->HC MI PGA 30V
Range 4A 10X : 0.00
4507.11162                                  Exp= 266.03921   Act= 266.03272
mA                                                  HC->HC MI PGA 30V Range 4A 10X
4507.11163                                                  -0.006483895088195
mA               -1.157               1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : 266.00
4507.11164                                  Exp= -26.60367   Act= -26.60155
mA                                                  HC->HC MI PGA 30V Range 4A
100X
4507.11165                                                   0.002117137790052
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : -26.60
4507.11166                                  Exp= -0.03494    Act= -0.03087
mA                                                  HC->HC MI PGA 30V Range 4A
100X
4507.11167                                                   0.004075439762123
mA               -0.312               0.312       Delta : HC->HC MI PGA 30V
Range 4A 100X : 0.00
4507.11168                                  Exp= 26.56772    Act= 26.57120
mA                                                  HC->HC MI PGA 30V Range 4A
100X
4507.11169                                                   0.003477234081945
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : 26.60
4507.11170                                  Exp= -662.95829  Act= -662.98747
mA                                                  HC->HC MI PGA 10V Range 100A
10X
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4507.11171                                                  -0.029175025591371
mA              -18.325          18.325       Delta : HC->HC MI PGA 10V
Range 100A 10X : -665.00
4507.11172                  Exp= -0.25937    Act= -0.43867
mA                                  HC->HC MI PGA 10V Range 100A
10X
4507.11173                                                  -0.179300491995596
mA                -15            15         Delta : HC->HC MI PGA 10V
Range 100A 10X : 0.00
4507.11174                  Exp= 662.23574   Act= 661.87311
mA                                  HC->HC MI PGA 10V Range 100A
10X
4507.11175                                                  -0.362625021507483
mA              -18.325          18.325       Delta : HC->HC MI PGA 10V
Range 100A 10X : 665.00
4507.11176                  Exp= -662.84686  Act= -663.17484
mA                                  HC->HC MI PGA 10V Range 100A
100X
4507.11177                                                  -0.327981364044376
mA              -10.825          10.825       Delta : HC->HC MI PGA 10V
Range 100A 100X : -665.00
4507.11178                  Exp= -0.31065    Act= -0.50730
mA                                  HC->HC MI PGA 10V Range 100A
100X
4507.11179                                                  -0.196644218962570
mA                -7.5            7.5        Delta : HC->HC MI PGA 10V
Range 100A 100X : 0.00
4507.11180                  Exp= 662.23443   Act= 661.97402
mA                                  HC->HC MI PGA 10V Range 100A
100X
4507.11181                                                  -0.260406280181883
mA              -10.825          10.825       Delta : HC->HC MI PGA 10V
Range 100A 100X : 665.00
4507.11182                  Exp= -664.65339  Act= -664.69097
mA                                  HC->HC MI PGA 10V Range 10A
10X
4507.11183                                                  -0.037575342897867
mA               -4.825           4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : -665.00
4507.11184                  Exp= -0.04783    Act= 0.02636
```

mA HC->HC MI PGA 10V Range 10A
10X
4507.11185 0.074192597888882
mA -1.5 1.5 Delta : HC->HC MI PGA 10V
Range 10A 10X : 0.00
4507.11186 Exp= 664.87664 Act= 664.80064
mA HC->HC MI PGA 10V Range 10A
10X
4507.11187 -0.076002922237990
mA -4.825 4.825 Delta : HC->HC MI PGA 10V
Range 10A 10X : 665.00
4507.11188 Exp= -664.65339 Act= -664.69097
mA HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11189 -0.037575342897867
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : -665.00
4507.11190 Exp= -0.04783 Act= 0.02636
mA HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11191 0.074192597888882
mA -1.5 1.5 Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 0.00
4507.11192 Exp= 664.87664 Act= 664.80064
mA HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11193 -0.076002922237990
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 665.00
4507.11194 Exp= -66.45381 Act= -66.44067
mA HC->HC MI PGA 10V Range 10A
100X
4507.11195 0.013137274098682
mA -1.0825 1.0825 Delta : HC->HC MI PGA 10V
Range 10A 100X : -66.50
4507.11196 Exp= -0.06847 Act= -0.05423
mA HC->HC MI PGA 10V Range 10A
100X
4507.11197 0.014241328931906
mA -0.75 0.75 Delta : HC->HC MI PGA 10V

```
Range 10A 100X : 0.00
4507.11198                              Exp= 66.37977    Act= 66.39123
mA                                              HC->HC MI PGA 10V Range 10A
100X
4507.11199                                              0.011464727654627
mA              -1.0825              1.0825       Delta : HC->HC MI PGA 10V
Range 10A 100X : 66.50
4507.11200                              Exp= -66.45381   Act= -66.44067
mA                                              HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11201                                              0.013137274098682
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : -66.50
4507.11202                              Exp= -0.06847    Act= -0.05423
mA                                              HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11203                                              0.014241328931906
mA                -0.75                 0.75       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 0.00
4507.11204                              Exp= 66.37977    Act= 66.39123
mA                                              HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11205                                              0.011464727654627
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 66.50
4507.11206                              Exp= -266.03478  Act= -266.03230
mA                                              HC->HC MI PGA 10V Range 4A 10X
4507.11207                                              0.002481544564716
mA              -1.157                1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : -266.00
4507.11208                              Exp= -0.01634    Act= -0.00502
mA                                              HC->HC MI PGA 10V Range 4A 10X
4507.11209                                              0.011317130422749
mA              -0.625                0.625       Delta : HC->HC MI PGA 10V
Range 4A 10X : 0.00
4507.11210                              Exp= 265.99613   Act= 265.99010
mA                                              HC->HC MI PGA 10V Range 4A 10X
4507.11211                                             -0.006030011140808
mA              -1.157                1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : 266.00
```

4507.11212 Exp= -26.58532 Act= -26.59158
mA HC->HC MI PGA 10V Range 4A
100X
4507.11213 -0.006263888993924
mA -0.3652 0.3652 Delta : HC->HC MI PGA 10V
Range 4A 100X : -26.60
4507.11214 Exp= -0.00745 Act= -0.01204
mA HC->HC MI PGA 10V Range 4A
100X
4507.11215 -0.004590319479997
mA -0.312 0.312 Delta : HC->HC MI PGA 10V
Range 4A 100X : 0.00
4507.11216 Exp= 26.57415 Act= 26.56756
mA HC->HC MI PGA 10V Range 4A
100X
4507.11217 -0.006586400802743
mA -0.3652 0.3652 Delta : HC->HC MI PGA 10V
Range 4A 100X : 26.60
4508.10000 HC relays verified
DIB HC Relays Check
4508.10001 0
status 0 DIB HC Relays Check
4508.10002 Measure the HV 20V divider
External HV Source Calibration Factors
4508.10003 0
status 0 External HV Source
Calibration Factors
4508.10004 Measure the HV 200V divider
External HV Source Calibration Factors
4508.10005 0
status 0 External HV Source
Calibration Factors
4508.10006 Measure 2000V path
External HV Source Calibration Factors
4508.10007 0
status 0 External HV Source
Calibration Factors
4508.10008 Measure ATTEN_2
External HV Source Calibration Factors
4508.10009 0

```
status                                          0       External HV Source
Calibration Factors
4508.10010                                       HV cal factors to/from file
External HV Source Calibration Factors
4508.10011                                                                  0
status                                          0       External HV Source
Calibration Factors
4508.10012                                       External HV Source Cal Data
External HV Source Calibration Factors
4508.10013                                                                  0
status                                          0       External HV Source
Calibration Factors
4508.10014                                                          -0.00130
-0.0016294          -0.00097761       External HV Source 20V Range slope
4508.10015                                                          -0.00125
-0.05                 0.05       External HV Source 20V Range offset
4508.10016                                                          -0.01406
-0.017924            -0.010754       External HV Source 200V Range slope
4508.10017                                                          -0.01349
-0.5                  0.5       External HV Source 200V Range offset
4508.10018                                                          -0.12212
-0.15259            -0.091554       External HV Source 2000V Range slope
4508.10019                                                          -0.11667
-5                    5       External HV Source 2000V Range offset
4508.10020                                                           0.48950
Atten_2 value
4508.10021                              Exp= -9.49885    Act= -9.49890
V                                               Volt Meter 10V Range 1X
4508.10022                                             -0.000053841537834
V           -0.00595            0.00595       Delta : Volt Meter 10V Range
1X : -9.50
4508.10023                              Exp= 0.00123     Act= 0.00121
V                                               Volt Meter 10V Range 1X
4508.10024                                             -0.000016760654216
V            -0.0012             0.0012       Delta : Volt Meter 10V Range
1X : 0.00
4508.10025                              Exp= 9.50114     Act= 9.50123
V                                               Volt Meter 10V Range 1X
4508.10026                                              0.000089596950890
V           -0.00595            0.00595       Delta : Volt Meter 10V Range
```

```
1X : 9.50
4508.10027                              Exp= -28.49886    Act= -28.49901
V                                              Volt Meter 30V Range 1X
4508.10028                                            -0.000153416100506
V             -0.01825                0.01825       Delta : Volt Meter 30V Range
1X : -28.50
4508.10029                              Exp= 0.00122      Act= 0.00119
V                                              Volt Meter 30V Range 1X
4508.10030                                            -0.000022557512378
V               -0.004                  0.004       Delta : Volt Meter 30V Range
1X : 0.00
4508.10031                              Exp= 28.50118     Act= 28.50139
V                                              Volt Meter 30V Range 1X
4508.10032                                             0.000206342354414
V             -0.01825                0.01825       Delta : Volt Meter 30V Range
1X : 28.50
4508.10033                              Exp= -94.99898    Act= -94.99959
V                                              Volt Meter 100V Range 1X
4508.10034                                            -0.000612495540366
V               -0.06                   0.06        Delta : Volt Meter 100V Range
1X : -95.00
4508.10035                              Exp= 0.00163      Act= 0.00152
V                                              Volt Meter 100V Range 1X
4508.10036                                            -0.000107788004952
V              -0.0125                  0.0125      Delta : Volt Meter 100V Range
1X : 0.00
4508.10037                              Exp= 95.00124     Act= 95.00197
V                                              Volt Meter 100V Range 1X
4508.10038                                             0.000733230344835
V               -0.06                   0.06        Delta : Volt Meter 100V Range
1X : 95.00
4508.10039                              Exp= -0.94883     Act= -0.94883
V                                              Volt Meter 10V Range 10X
4508.10040                                            -0.000003983316561
V            -0.001075                0.001075      Delta : Volt Meter 10V Range
10X : -0.95
4508.10041                              Exp= 0.00123      Act= 0.00124
V                                              Volt Meter 10V Range 10X
4508.10042                                             0.000010100715262
V              -0.0006                  0.0006      Delta : Volt Meter 10V Range
```

```
10X : 0.00
4508.10043                              Exp= 0.95119     Act= 0.95121
V                                               Volt Meter 10V Range 10X
4508.10044                                              0.000016302711567
V           -0.001075            0.001075       Delta : Volt Meter 10V Range
10X : 0.95
4508.10045                              Exp= -0.09381    Act= -0.09380
V                                               Volt Meter 10V Range 100X
4508.10046                                              0.000007471389515
V          -0.0003475           0.0003475       Delta : Volt Meter 10V Range
100X : -0.10
4508.10047                              Exp= 0.00122     Act= 0.00123
V                                               Volt Meter 10V Range 100X
4508.10048                                              0.000007838640108
V              -0.0003              0.0003       Delta : Volt Meter 10V Range
100X : 0.00
4508.10049                              Exp= 0.09618     Act= 0.09619
V                                               Volt Meter 10V Range 100X
4508.10050                                              0.000007473548572
V          -0.0003475           0.0003475       Delta : Volt Meter 10V Range
100X : 0.10
4508.10051                              Exp= -2.84879    Act= -2.84877
V                                               Volt Meter 30V Range 10X
4508.10052                                              0.000016576598207
V           -0.003425            0.003425       Delta : Volt Meter 30V Range
10X : -2.85
4508.10053                              Exp= 0.00118     Act= 0.00122
V                                               Volt Meter 30V Range 10X
4508.10054                                              0.000041283635469
V             -0.002               0.002       Delta : Volt Meter 30V Range
10X : 0.00
4508.10055                              Exp= 2.85135     Act= 2.85140
V                                               Volt Meter 30V Range 10X
4508.10056                                              0.000051183925927
V           -0.003425            0.003425       Delta : Volt Meter 30V Range
10X : 2.85
4508.10057                              Exp= -0.28396    Act= -0.28393
V                                               Volt Meter 30V Range 100X
4508.10058                                              0.000022261560809
V          -0.0011425           0.0011425       Delta : Volt Meter 30V Range
```

```
100X : -0.29
4508.10059                              Exp= 0.00118     Act= 0.00121
V                                               Volt Meter 30V Range 100X
4508.10060                                              0.000028875634908
V              -0.001                0.001       Delta : Volt Meter 30V Range
100X : 0.00
4508.10061                              Exp= 0.28630     Act= 0.28633
V                                               Volt Meter 30V Range 100X
4508.10062                                              0.000025047634255
V          -0.0011425            0.0011425       Delta : Volt Meter 30V Range
100X : 0.29
4508.10063                              Exp= -9.49899    Act= -9.49899
V                                               Volt Meter 100V Range 10X
4508.10064                                              0.000004668430437
V            -0.01075              0.01075       Delta : Volt Meter 100V Range
10X : -9.50
4508.10065                              Exp= 0.00153     Act= 0.00166
V                                               Volt Meter 100V Range 10X
4508.10066                                              0.000133657480324
V              -0.006                0.006       Delta : Volt Meter 100V Range
10X : 0.00
4508.10067                              Exp= 9.50113     Act= 9.50133
V                                               Volt Meter 100V Range 10X
4508.10068                                              0.000203230477412
V            -0.01075              0.01075       Delta : Volt Meter 100V Range
10X : 9.50
4508.10069                              Exp= -0.94869    Act= -0.94858
V                                               Volt Meter 100V Range 100X
4508.10070                                              0.000110681921465
V          -0.003475             0.003475       Delta : Volt Meter 100V Range
100X : -0.95
4508.10071                              Exp= 0.00154     Act= 0.00167
V                                               Volt Meter 100V Range 100X
4508.10072                                              0.000123366727930
V              -0.003                0.003       Delta : Volt Meter 100V Range
100X : 0.00
4508.10073                              Exp= 0.95163     Act= 0.95175
V                                               Volt Meter 100V Range 100X
4508.10074                                              0.000118777849954
V          -0.003475             0.003475       Delta : Volt Meter 100V Range
```

```
100X : 0.95
4509.10000                                                          46.9  deg
C                                                  MotherBoard Cal Temperature
4509.10001                                                          46.1  deg
C                                                  MotherBoard Chk Temperature
4509.10002   MotherBoard temperature check Exp = 46.884945, Act = 46.100441
MotherBoard Chk Temperature
4509.10003                                                             0
status                                          0       MotherBoard Chk
Temperature
4509.10004                                                          54.4  deg
C                                                  Control Board Cal Temperature
4509.10005                                                          53.7  deg
C                                                  Control Board Chk Temperature
4509.10006 Control Board temperature check Exp = 54.399414, Act = 53.737118
Control Board Chk Temperature
4509.10007                                                             0
status                                          0       Control Board Chk
Temperature
Datalog for: Check HPU-106            REV 43, Site #0, Bin #1
  TEST#                                                          RESULT
UNITS                LOWER                UPPER ALARM TEST NAME
---------- ------------------------------------------------------------ -----
- -------------------- -------------------- ----- ------------------------------
------------------------------------------------------
    4500.0                                                             0
0       If this failed there are Fatal Errors during Startup, Check System
Monitor
 4500.1000                                                 ETS1UOJUM00038
COMPUTER INFORMATION - Name
 4500.1001                                                   1000.000000
V                                                  DIAG/CAL INFORMATION - Maximum
Voltage
 4500.1101                                                             0
0       PLD REVISION INFORMATION
 4500.1103                                                             0
0       PLD REVISION INFORMATION
 4500.1105                                                             3
3       PLD REVISION INFORMATION
 4500.1106                                      DATA[0]={0, 0, 1, 0, 5}
```

```
PLD REVISION INFORMATION
 4500.1107                                        DATA[1]={0, 1, 1, 0, 8}
PLD REVISION INFORMATION
 4500.1108                                      DATA[2]={0, 0, 1, 0, 1990}
PLD REVISION INFORMATION
4501.10000                                                      -29.99579
V              -30.027              -29.973       LC->LC 16 Bit DRV 30V Range
4501.10001                                              0.004214300000001
V               -0.027                0.027       Delta : LC->LC 16 Bit DRV 30V
Range : -30.00
4501.10002                                                      -25.99949
V              -26.025              -25.975       LC->LC 16 Bit DRV 30V Range
4501.10003                                              0.000511199999998
V               -0.025                0.025       Delta : LC->LC 16 Bit DRV 30V
Range : -26.00
4501.10004                                                      -22.00201
V              -22.023              -21.977       LC->LC 16 Bit DRV 30V Range
4501.10005                                             -0.002013200000000
V               -0.023                0.023       Delta : LC->LC 16 Bit DRV 30V
Range : -22.00
4501.10006                                                      -18.00334
V              -18.021              -17.979       LC->LC 16 Bit DRV 30V Range
4501.10007                                             -0.003344500000001
V               -0.021                0.021       Delta : LC->LC 16 Bit DRV 30V
Range : -18.00
4501.10008                                                      -10.00451
V              -10.017               -9.983       LC->LC 16 Bit DRV 30V Range
4501.10009                                             -0.004509400000000
V               -0.017                0.017       Delta : LC->LC 16 Bit DRV 30V
Range : -10.00
4501.10010                                                       -0.00370
V               -0.012                0.012       LC->LC 16 Bit DRV 30V Range
4501.10011                                             -0.003699552970000
V               -0.012                0.012       Delta : LC->LC 16 Bit DRV 30V
Range : 0.00
4501.10012                                                       9.99738
V                9.983               10.017       LC->LC 16 Bit DRV 30V Range
4501.10013                                             -0.002616410000000
V               -0.017                0.017       Delta : LC->LC 16 Bit DRV 30V
Range : 10.00
```

4501.10014 17.99914
V 17.979 18.021 LC->LC 16 Bit DRV 30V Range
4501.10015 -0.000856400000000
V -0.021 0.021 Delta : LC->LC 16 Bit DRV 30V
Range : 18.00
4501.10016 22.00068
V 21.977 22.023 LC->LC 16 Bit DRV 30V Range
4501.10017 0.000684700000001
V -0.023 0.023 Delta : LC->LC 16 Bit DRV 30V
Range : 22.00
4501.10018 26.00206
V 25.975 26.025 LC->LC 16 Bit DRV 30V Range
4501.10019 0.002056100000001
V -0.025 0.025 Delta : LC->LC 16 Bit DRV 30V
Range : 26.00
4501.10020 30.00272
V 29.973 30.027 LC->LC 16 Bit DRV 30V Range
4501.10021 0.002717000000001
V -0.027 0.027 Delta : LC->LC 16 Bit DRV 30V
Range : 30.00
4501.10022 -9.99884
V -10.013 -9.987 LC->LC 16 Bit DRV 10V Range
4501.10023 0.001162530000000
V -0.013 0.013 Delta : LC->LC 16 Bit DRV 10V
Range : -10.00
4501.10024 -7.99998
V -8.012 -7.988 LC->LC 16 Bit DRV 10V Range
4501.10025 0.000022170000000
V -0.012 0.012 Delta : LC->LC 16 Bit DRV 10V
Range : -8.00
4501.10026 -6.00085
V -6.011 -5.989 LC->LC 16 Bit DRV 10V Range
4501.10027 -0.000848770000000
V -0.011 0.011 Delta : LC->LC 16 Bit DRV 10V
Range : -6.00
4501.10028 -4.00105
V -4.01 -3.99 LC->LC 16 Bit DRV 10V Range
4501.10029 -0.001047370000000
V -0.01 0.01 Delta : LC->LC 16 Bit DRV 10V
Range : -4.00

4501.10030			-2.00106
V	-2.009	-1.991	LC->LC 16 Bit DRV 10V Range
4501.10031			-0.001064540000000
V	-0.009	0.009	Delta : LC->LC 16 Bit DRV 10V Range : -2.00
4501.10032			-0.00080
V	-0.008	0.008	LC->LC 16 Bit DRV 10V Range
4501.10033			-0.000796280481000
V	-0.008	0.008	Delta : LC->LC 16 Bit DRV 10V Range : 0.00
4501.10034			1.99897
V	1.991	2.009	LC->LC 16 Bit DRV 10V Range
4501.10035			-0.001031460000000
V	-0.009	0.009	Delta : LC->LC 16 Bit DRV 10V Range : 2.00
4501.10036			3.99950
V	3.99	4.01	LC->LC 16 Bit DRV 10V Range
4501.10037			-0.000501870000000
V	-0.01	0.01	Delta : LC->LC 16 Bit DRV 10V Range : 4.00
4501.10038			6.00028
V	5.989	6.011	LC->LC 16 Bit DRV 10V Range
4501.10039			0.000276800000000
V	-0.011	0.011	Delta : LC->LC 16 Bit DRV 10V Range : 6.00
4501.10040			8.00060
V	7.988	8.012	LC->LC 16 Bit DRV 10V Range
4501.10041			0.000599859999999
V	-0.012	0.012	Delta : LC->LC 16 Bit DRV 10V Range : 8.00
4501.10042			10.00139
V	9.987	10.013	LC->LC 16 Bit DRV 10V Range
4501.10043			0.001389500000000
V	-0.013	0.013	Delta : LC->LC 16 Bit DRV 10V Range : 10.00
4502.10000			-30.00068
V	-30.014	-29.987	LC->LC 18 Bit DRV 30V Range
4502.10001			-0.000675200000000
V	-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V Range : -30.00

4502.10002 -15.00118
V -15.01 -14.99 LC->LC 18 Bit DRV 30V Range
4502.10003 -0.001176800000000
V -0.00975 0.00975 Delta : LC->LC 18 Bit DRV 30V
Range : -15.00
4502.10004 0.00005
V -0.006 0.006 LC->LC 18 Bit DRV 30V Range
4502.10005 0.000054296553600
V -0.006 0.006 Delta : LC->LC 18 Bit DRV 30V
Range : 0.00
4502.10006 15.00095
V 14.99 15.01 LC->LC 18 Bit DRV 30V Range
4502.10007 0.000950800000000
V -0.00975 0.00975 Delta : LC->LC 18 Bit DRV 30V
Range : 15.00
4502.10008 29.99975
V 29.987 30.014 LC->LC 18 Bit DRV 30V Range
4502.10009 -0.000253699999998
V -0.0135 0.0135 Delta : LC->LC 18 Bit DRV 30V
Range : 30.00
4502.10010 -10.00000
V -10.007 -9.9935 LC->LC 18 Bit DRV 10V Range
4502.10011 0.000003339999999
V -0.0065 0.0065 Delta : LC->LC 18 Bit DRV 10V
Range : -10.00
4502.10012 -5.00022
V -5.0053 -4.9948 LC->LC 18 Bit DRV 10V Range
4502.10013 -0.000220060000000
V -0.00525 0.00525 Delta : LC->LC 18 Bit DRV 10V
Range : -5.00
4502.10014 0.00006
V -0.004 0.004 LC->LC 18 Bit DRV 10V Range
4502.10015 0.000058408415500
V -0.004 0.004 Delta : LC->LC 18 Bit DRV 10V
Range : 0.00
4502.10016 5.00023
V 4.9948 5.0053 LC->LC 18 Bit DRV 10V Range
4502.10017 0.000231740000000
V -0.00525 0.00525 Delta : LC->LC 18 Bit DRV 10V
Range : 5.00

4502.10018 9.99990
V 9.9935 10.007 LC->LC 18 Bit DRV 10V Range
4502.10019 -0.000104430000000
V -0.0065 0.0065 Delta : LC->LC 18 Bit DRV 10V
Range : 10.00
4503.10000 -99.99963
V -100.04 -99.963 LC->LC V/I Mode FV 100V Range
4503.10001 0.000370000000004
V -0.0375 0.0375 Delta : LC->LC V/I Mode FV 100V
Range : -100.00
4503.10002 Exp= -99.99963 Act= -100.00002
V LC->LC V/I Mode MV 100V Range
4503.10003 -0.000390169648881
V -0.0375 0.0375 Delta : LC->LC V/I Mode MV 100V
Range : -100.00
4503.10004 -50.00015
V -50.025 -49.975 LC->LC V/I Mode FV 100V Range
4503.10005 -0.000145000000003
V -0.025 0.025 Delta : LC->LC V/I Mode FV 100V
Range : -50.00
4503.10006 Exp= -50.00015 Act= -50.00041
V LC->LC V/I Mode MV 100V Range
4503.10007 -0.000262251912183
V -0.025 0.025 Delta : LC->LC V/I Mode MV 100V
Range : -50.00
4503.10008 -0.00013
V -0.0125 0.0125 LC->LC V/I Mode FV 100V Range
4503.10009 -0.000134448605000
V -0.0125 0.0125 Delta : LC->LC V/I Mode FV 100V
Range : 0.00
4503.10010 Exp= -0.00013 Act= -0.00040
V LC->LC V/I Mode MV 100V Range
4503.10011 -0.000265156660580
V -0.0125 0.0125 Delta : LC->LC V/I Mode MV 100V
Range : 0.00
4503.10012 50.00056
V 49.975 50.025 LC->LC V/I Mode FV 100V Range
4503.10013 0.000560800000002
V -0.025 0.025 Delta : LC->LC V/I Mode FV 100V
Range : 50.00

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4503.10014                                  Exp= 50.00056    Act= 50.00046
V                                                LC->LC V/I Mode MV 100V Range
4503.10015                                              -0.000103811523452
V                -0.025                0.025       Delta : LC->LC V/I Mode MV 100V
Range : 50.00
4503.10016                                                          99.99974
V                99.963                100.04      LC->LC V/I Mode FV 100V Range
4503.10017                                              -0.000263200000006
V               -0.0375                0.0375      Delta : LC->LC V/I Mode FV 100V
Range : 100.00
4503.10018                                  Exp= 99.99974    Act= 100.00013
V                                                LC->LC V/I Mode MV 100V Range
4503.10019                                               0.000397973725242
V               -0.0375                0.0375      Delta : LC->LC V/I Mode MV 100V
Range : 100.00
4503.10020                                                         -29.99980
V                -30.01                -29.99      LC->LC V/I Mode FV 30V Range
4503.10021                                               0.000196500000001
V                 -0.01                  0.01      Delta : LC->LC V/I Mode FV 30V
Range : -30.00
4503.10022                                  Exp= -29.99980   Act= -29.99984
V                                                LC->LC V/I Mode MV 30V Range
4503.10023                                              -0.000033620398135
V                 -0.01                  0.01      Delta : LC->LC V/I Mode MV 30V
Range : -30.00
4503.10024                                                         -14.99994
V               -15.006                -14.994     LC->LC V/I Mode FV 30V Range
4503.10025                                               0.000059600000000
V              -0.00625               0.00625      Delta : LC->LC V/I Mode FV 30V
Range : -15.00
4503.10026                                  Exp= -14.99994   Act= -15.00008
V                                                LC->LC V/I Mode MV 30V Range
4503.10027                                              -0.000143696191897
V              -0.00625               0.00625      Delta : LC->LC V/I Mode MV 30V
Range : -15.00
4503.10028                                                          0.00006
V               -0.0025                0.0025      LC->LC V/I Mode FV 30V Range
4503.10029                                               0.000060945112600
V               -0.0025                0.0025      Delta : LC->LC V/I Mode FV 30V
Range : 0.00
```

4503.10030 Exp= 0.00006 Act= -0.00003
V LC->LC V/I Mode MV 30V Range
4503.10031 -0.000092949081032
V -0.0025 0.0025 Delta : LC->LC V/I Mode MV 30V
Range : 0.00
4503.10032 15.00018
V 14.994 15.006 LC->LC V/I Mode FV 30V Range
4503.10033 0.000184100000000
V -0.00625 0.00625 Delta : LC->LC V/I Mode FV 30V
Range : 15.00
4503.10034 Exp= 15.00018 Act= 15.00022
V LC->LC V/I Mode MV 30V Range
4503.10035 0.000032755272207
V -0.00625 0.00625 Delta : LC->LC V/I Mode MV 30V
Range : 15.00
4503.10036 29.99979
V 29.99 30.01 LC->LC V/I Mode FV 30V Range
4503.10037 -0.000210800000001
V -0.01 0.01 Delta : LC->LC V/I Mode FV 30V
Range : 30.00
4503.10038 Exp= 29.99979 Act= 29.99989
V LC->LC V/I Mode MV 30V Range
4503.10039 0.000103547666075
V -0.01 0.01 Delta : LC->LC V/I Mode MV 30V
Range : 30.00
4503.10040 -9.99996
V -10.003 -9.9967 LC->LC V/I Mode FV 10V Range
4503.10041 0.000038150000000
V -0.0033 0.0033 Delta : LC->LC V/I Mode FV 10V
Range : -10.00
4503.10042 Exp= -9.99996 Act= -9.99994
V LC->LC V/I Mode MV 10V Range
4503.10043 0.000020738638534
V -0.0033 0.0033 Delta : LC->LC V/I Mode MV 10V
Range : -10.00
4503.10044 -4.99997
V -5.0021 -4.998 LC->LC V/I Mode FV 10V Range
4503.10045 0.000032660000000
V -0.00205 0.00205 Delta : LC->LC V/I Mode FV 10V
Range : -5.00

4503.10046 Exp= -4.99997 Act= -5.00000
V LC->LC V/I Mode MV 10V Range
4503.10047 -0.000035778626151
V -0.00205 0.00205 Delta : LC->LC V/I Mode MV 10V
Range : -5.00
4503.10048 -0.00003
V -0.0008 0.0008 LC->LC V/I Mode FV 10V Range
4503.10049 -0.000025200851300
V -0.0008 0.0008 Delta : LC->LC V/I Mode FV 10V
Range : 0.00
4503.10050 Exp= -0.00003 Act= -0.00007
V LC->LC V/I Mode MV 10V Range
4503.10051 -0.000045592815767
V -0.0008 0.0008 Delta : LC->LC V/I Mode MV 10V
Range : 0.00
4503.10052 5.00002
V 4.998 5.0021 LC->LC V/I Mode FV 10V Range
4503.10053 0.000019070000000
V -0.00205 0.00205 Delta : LC->LC V/I Mode FV 10V
Range : 5.00
4503.10054 Exp= 5.00002 Act= 5.00002
V LC->LC V/I Mode MV 10V Range
4503.10055 0.000000795268348
V -0.00205 0.00205 Delta : LC->LC V/I Mode MV 10V
Range : 5.00
4503.10056 10.00000
V 9.9967 10.003 LC->LC V/I Mode FV 10V Range
4503.10057 0.000000999999999
V -0.0033 0.0033 Delta : LC->LC V/I Mode FV 10V
Range : 10.00
4503.10058 Exp= 10.00000 Act= 9.99998
V LC->LC V/I Mode MV 10V Range
4503.10059 -0.000016304748618
V -0.0033 0.0033 Delta : LC->LC V/I Mode MV 10V
Range : 10.00
4503.10060 -74.99973
V -75.031 -74.969 HC->HC V/I Mode FV 75V Range
4503.10061 0.000270799999996
V -0.03125 0.03125 Delta : HC->HC V/I Mode FV 75V
Range : -75.00

4503.10062 Exp= -74.99973 Act= -75.00045
V HC->HC V/I Mode MV 75V Range
4503.10063 -0.000719955799099
V -0.03125 0.03125 Delta : HC->HC V/I Mode MV 75V
Range : -75.00
4503.10064 -37.49989
V -37.522 -37.478 HC->HC V/I Mode FV 75V Range
4503.10065 0.000114400000001
V -0.021875 0.021875 Delta : HC->HC V/I Mode FV 75V
Range : -37.50
4503.10066 Exp= -37.49989 Act= -37.50004
V HC->HC V/I Mode MV 75V Range
4503.10067 -0.000149773491508
V -0.021875 0.021875 Delta : HC->HC V/I Mode MV 75V
Range : -37.50
4503.10068 -0.00010
V -0.0125 0.0125 HC->HC V/I Mode FV 75V Range
4503.10069 -0.000096404084600
V -0.0125 0.0125 Delta : HC->HC V/I Mode FV 75V
Range : 0.00
4503.10070 Exp= -0.00010 Act= -0.00036
V HC->HC V/I Mode MV 75V Range
4503.10071 -0.000262661014579
V -0.0125 0.0125 Delta : HC->HC V/I Mode MV 75V
Range : 0.00
4503.10072 37.50013
V 37.478 37.522 HC->HC V/I Mode FV 75V Range
4503.10073 0.000133499999997
V -0.021875 0.021875 Delta : HC->HC V/I Mode FV 75V
Range : 37.50
4503.10074 Exp= 37.50013 Act= 37.50025
V HC->HC V/I Mode MV 75V Range
4503.10075 0.000117140220731
V -0.021875 0.021875 Delta : HC->HC V/I Mode MV 75V
Range : 37.50
4503.10076 74.99970
V 74.969 75.031 HC->HC V/I Mode FV 75V Range
4503.10077 -0.000297500000002
V -0.03125 0.03125 Delta : HC->HC V/I Mode FV 75V
Range : 75.00

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4503.10078                                  Exp= 74.99970     Act= 75.00085
V                                                  HC->HC V/I Mode MV 75V Range
4503.10079                                                  0.001150362422024
V              -0.03125              0.03125       Delta : HC->HC V/I Mode MV 75V
Range : 75.00
4503.10080                                                             -29.99981
V               -30.01                -29.99       HC->HC V/I Mode FV 30V Range
4503.10081                                                  0.000192599999998
V                -0.01                  0.01       Delta : HC->HC V/I Mode FV 30V
Range : -30.00
4503.10082                                  Exp= -29.99981    Act= -29.99994
V                                                  HC->HC V/I Mode MV 30V Range
4503.10083                                                 -0.000132220591894
V                -0.01                  0.01       Delta : HC->HC V/I Mode MV 30V
Range : -30.00
4503.10084                                                             -14.99994
V              -15.006               -14.994       HC->HC V/I Mode FV 30V Range
4503.10085                                                  0.000055300000000
V              -0.00625              0.00625       Delta : HC->HC V/I Mode FV 30V
Range : -15.00
4503.10086                                  Exp= -14.99994    Act= -14.99998
V                                                  HC->HC V/I Mode MV 30V Range
4503.10087                                                 -0.000032579902882
V              -0.00625              0.00625       Delta : HC->HC V/I Mode MV 30V
Range : -15.00
4503.10088                                                              0.00007
V               -0.0025                0.0025       HC->HC V/I Mode FV 30V Range
4503.10089                                                  0.000066854940100
V               -0.0025                0.0025       Delta : HC->HC V/I Mode FV 30V
Range : 0.00
4503.10090                                  Exp= 0.00007      Act= -0.00008
V                                                  HC->HC V/I Mode MV 30V Range
4503.10091                                                 -0.000147029817299
V               -0.0025                0.0025       Delta : HC->HC V/I Mode MV 30V
Range : 0.00
4503.10092                                                              15.00018
V                14.994                 15.006       HC->HC V/I Mode FV 30V Range
4503.10093                                                  0.000177900000001
V              -0.00625              0.00625       Delta : HC->HC V/I Mode FV 30V
Range : 15.00
```

4503.10094 Exp= 15.00018 Act= 15.00023
V HC->HC V/I Mode MV 30V Range
4503.10095 0.000056085278272
V -0.00625 0.00625 Delta : HC->HC V/I Mode MV 30V
Range : 15.00
4503.10096 30.00004
V 29.99 30.01 HC->HC V/I Mode FV 30V Range
4503.10097 0.000042900000000
V -0.01 0.01 Delta : HC->HC V/I Mode FV 30V
Range : 30.00
4503.10098 Exp= 30.00004 Act= 29.99996
V HC->HC V/I Mode MV 30V Range
4503.10099 -0.000086131726832
V -0.01 0.01 Delta : HC->HC V/I Mode MV 30V
Range : 30.00
4503.10100 -9.99997
V -10.003 -9.9967 HC->HC V/I Mode FV 10V Range
4503.10101 0.000034810000001
V -0.0033 0.0033 Delta : HC->HC V/I Mode FV 10V
Range : -10.00
4503.10102 Exp= -9.99997 Act= -10.00003
V HC->HC V/I Mode MV 10V Range
4503.10103 -0.000063154948977
V -0.0033 0.0033 Delta : HC->HC V/I Mode MV 10V
Range : -10.00
4503.10104 -4.99997
V -5.0021 -4.998 HC->HC V/I Mode FV 10V Range
4503.10105 0.000033380000000
V -0.00205 0.00205 Delta : HC->HC V/I Mode FV 10V
Range : -5.00
4503.10106 Exp= -4.99997 Act= -5.00001
V HC->HC V/I Mode MV 10V Range
4503.10107 -0.000043364241038
V -0.00205 0.00205 Delta : HC->HC V/I Mode MV 10V
Range : -5.00
4503.10108 0.00005
V -0.0008 0.0008 HC->HC V/I Mode FV 10V Range
4503.10109 0.000053021409300
V -0.0008 0.0008 Delta : HC->HC V/I Mode FV 10V
Range : 0.00

4503.10110 Exp= 0.00005 Act= 0.00000
V HC->HC V/I Mode MV 10V Range
4503.10111 -0.000048365084909
V -0.0008 0.0008 Delta : HC->HC V/I Mode MV 10V
Range : 0.00
4503.10112 5.00009
V 4.998 5.0021 HC->HC V/I Mode FV 10V Range
4503.10113 0.000086070000000
V -0.00205 0.00205 Delta : HC->HC V/I Mode FV 10V
Range : 5.00
4503.10114 Exp= 5.00009 Act= 5.00013
V HC->HC V/I Mode MV 10V Range
4503.10115 0.000046419254747
V -0.00205 0.00205 Delta : HC->HC V/I Mode MV 10V
Range : 5.00
4503.10116 9.99998
V 9.9967 10.003 HC->HC V/I Mode FV 10V Range
4503.10117 -0.000018600000001
V -0.0033 0.0033 Delta : HC->HC V/I Mode FV 10V
Range : 10.00
4503.10118 Exp= 9.99998 Act= 9.99996
V HC->HC V/I Mode MV 10V Range
4503.10119 -0.000021951800955
V -0.0033 0.0033 Delta : HC->HC V/I Mode MV 10V
Range : 10.00
4503.10120 HC relays OK
DIB HC Relays Check
4503.10121 0
status 0 DIB HC Relays Check
4504.11000 HC relays verified
DIB HC Relays Check
4504.11001 0
status 0 DIB HC Relays Check
4504.11002 -500.00070
mA -500.38 -499.63 LC->LC FI 100V Range 500mA
4504.11003 -0.000699999999938
mA -0.375 0.375 Delta : LC->LC FI 100V Range
500mA : -500.00
4504.11004 Exp= -500.00070 Act= -499.99942
mA LC->LC MI 100V Range 500mA

4504.11005 0.001283766376616
mA -0.375 0.375 Delta : LC->LC MI 100V Range 500mA : -500.00
4504.11006 -250.00227
mA -250.25 -249.75 LC->LC FI 100V Range 500mA
4504.11007 -0.002264999999994
mA -0.25 0.25 Delta : LC->LC FI 100V Range 500mA : -250.00
4504.11008 Exp= -250.00226 Act= -249.99841
mA LC->LC MI 100V Range 500mA
4504.11009 0.003858798370345
mA -0.25 0.25 Delta : LC->LC MI 100V Range 500mA : -250.00
4504.11010 0.00322
mA -0.125 0.125 LC->LC FI 100V Range 500mA
4504.11011 0.003221961950000
mA -0.125 0.125 Delta : LC->LC FI 100V Range 500mA : 0.00
4504.11012 Exp= 0.00322 Act= 0.00261
mA LC->LC MI 100V Range 500mA
4504.11013 -0.000615136125072
mA -0.125 0.125 Delta : LC->LC MI 100V Range 500mA : 0.00
4504.11014 250.00289
mA 249.75 250.25 LC->LC FI 100V Range 500mA
4504.11015 0.002891000000005
mA -0.25 0.25 Delta : LC->LC FI 100V Range 500mA : 250.00
4504.11016 Exp= 250.00289 Act= 250.00366
mA LC->LC MI 100V Range 500mA
4504.11017 0.000772973809347
mA -0.25 0.25 Delta : LC->LC MI 100V Range 500mA : 250.00
4504.11018 499.99590
mA 499.63 500.38 LC->LC FI 100V Range 500mA
4504.11019 -0.004097999999999
mA -0.375 0.375 Delta : LC->LC FI 100V Range 500mA : 500.00
4504.11020 Exp= 499.99590 Act= 499.98864
mA LC->LC MI 100V Range 500mA

4504.11021 -0.007258053023349
mA -0.375 0.375 Delta : LC->LC MI 100V Range 500mA : 500.00
4504.11022 -950.00514
mA -950.6 -949.4 LC->LC FI 30V Range 1A
4504.11023 -0.005143999999973
mA -0.6 0.6 Delta : LC->LC FI 30V Range 1A : -950.00
4504.11024 Exp= -950.00514 Act= -950.00049
mA LC->LC MI 30V Range 1A
4504.11025 0.004658413233869
mA -0.6 0.6 Delta : LC->LC MI 30V Range 1A : -950.00
4504.11026 -475.00069
mA -475.36 -474.64 LC->LC FI 30V Range 1A
4504.11027 -0.000694000000010
mA -0.3625 0.3625 Delta : LC->LC FI 30V Range 1A : -475.00
4504.11028 Exp= -475.00069 Act= -475.00001
mA LC->LC MI 30V Range 1A
4504.11029 0.000688708726273
mA -0.3625 0.3625 Delta : LC->LC MI 30V Range 1A : -475.00
4504.11030 0.00065
mA -0.125 0.125 LC->LC FI 30V Range 1A
4504.11031 0.000652063704000
mA -0.125 0.125 Delta : LC->LC FI 30V Range 1A : 0.00
4504.11032 Exp= 0.00065 Act= 0.00364
mA LC->LC MI 30V Range 1A
4504.11033 0.002983011889648
mA -0.125 0.125 Delta : LC->LC MI 30V Range 1A : 0.00
4504.11034 475.00937
mA 474.64 475.36 LC->LC FI 30V Range 1A
4504.11035 0.009366999999997
mA -0.3625 0.3625 Delta : LC->LC FI 30V Range 1A : 475.00
4504.11036 Exp= 475.00937 Act= 475.01379
mA LC->LC MI 30V Range 1A

4504.11037 0.004423779463650
mA -0.3625 0.3625 Delta : LC->LC MI 30V Range 1A : 475.00
4504.11038 950.00306
mA 949.4 950.6 LC->LC FI 30V Range 1A
4504.11039 0.003058000000010
mA -0.6 0.6 Delta : LC->LC FI 30V Range 1A : 950.00
4504.11040 Exp= 950.00306 Act= 950.01388
mA LC->LC MI 30V Range 1A
4504.11041 0.010824929627916
mA -0.6 0.6 Delta : LC->LC MI 30V Range 1A : 950.00
4504.11042 -100.00070
mA -100.06 -99.938 LC->LC FI 30V Range 100mA
4504.11043 -0.000698000000000
mA -0.0625 0.0625 Delta : LC->LC FI 30V Range 100mA : -100.00
4504.11044 Exp= -100.00070 Act= -100.00027
mA LC->LC MI 30V Range 100mA
4504.11045 0.000429540082663
mA -0.0625 0.0625 Delta : LC->LC MI 30V Range 100mA : -100.00
4504.11046 -50.00013
mA -50.038 -49.963 LC->LC FI 30V Range 100mA
4504.11047 -0.000134899999999
mA -0.0375 0.0375 Delta : LC->LC FI 30V Range 100mA : -50.00
4504.11048 Exp= -50.00013 Act= -49.99930
mA LC->LC MI 30V Range 100mA
4504.11049 0.000839118135325
mA -0.0375 0.0375 Delta : LC->LC MI 30V Range 100mA : -50.00
4504.11050 -0.00028
mA -0.0125 0.0125 LC->LC FI 30V Range 100mA
4504.11051 -0.000283952019000
mA -0.0125 0.0125 Delta : LC->LC FI 30V Range 100mA : 0.00
4504.11052 Exp= -0.00028 Act= 0.00028
mA LC->LC MI 30V Range 100mA

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4504.11053                                          0.000564955249422
mA              -0.0125          0.0125       Delta : LC->LC MI 30V Range
100mA : 0.00
4504.11054                                                   50.00102
mA               49.963          50.038       LC->LC FI 30V Range 100mA
4504.11055                                          0.001019599999999
mA              -0.0375          0.0375       Delta : LC->LC FI 30V Range
100mA : 50.00
4504.11056                        Exp= 50.00102    Act= 50.00028
mA                                     LC->LC MI 30V Range 100mA
4504.11057                                       -0.000740548215447
mA              -0.0375          0.0375       Delta : LC->LC MI 30V Range
100mA : 50.00
4504.11058                                                  100.00006
mA               99.938          100.06       LC->LC FI 30V Range 100mA
4504.11059                                          0.000061000000002
mA              -0.0625          0.0625       Delta : LC->LC FI 30V Range
100mA : 100.00
4504.11060                        Exp= 100.00006   Act= 100.00058
mA                                     LC->LC MI 30V Range 100mA
4504.11061                                          0.000522558348692
mA              -0.0625          0.0625       Delta : LC->LC MI 30V Range
100mA : 100.00
4504.11062                                                  -10.00000
mA               -10.006         -9.9938      LC->LC FI 30V Range 10mA
4504.11063                                          0.000002089999999
mA             -0.00625         0.00625       Delta : LC->LC FI 30V Range
10mA : -10.00
4504.11064                        Exp= -10.00000   Act= -9.99997
mA                                     LC->LC MI 30V Range 10mA
4504.11065                                          0.000032838073480
mA             -0.00625         0.00625       Delta : LC->LC MI 30V Range
10mA : -10.00
4504.11066                                                   -5.00002
mA               -5.0038         -4.9963      LC->LC FI 30V Range 10mA
4504.11067                                       -0.000024800000000
mA             -0.00375         0.00375       Delta : LC->LC FI 30V Range
10mA : -5.00
4504.11068                        Exp= -5.00002    Act= -4.99996
mA                                     LC->LC MI 30V Range 10mA
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4504.11069 0.000060225340214
mA -0.00375 0.00375 Delta : LC->LC MI 30V Range 10mA : -5.00
4504.11070 -0.00004
mA -0.00125 0.00125 LC->LC FI 30V Range 10mA
4504.11071 -0.000036817931800
mA -0.00125 0.00125 Delta : LC->LC FI 30V Range 10mA : 0.00
4504.11072 Exp= -0.00004 Act= 0.00001
mA LC->LC MI 30V Range 10mA
4504.11073 0.000050753256819
mA -0.00125 0.00125 Delta : LC->LC MI 30V Range 10mA : 0.00
4504.11074 5.00005
mA 4.9963 5.0038 LC->LC FI 30V Range 10mA
4504.11075 0.000052040000000
mA -0.00375 0.00375 Delta : LC->LC FI 30V Range 10mA : 5.00
4504.11076 Exp= 5.00005 Act= 5.00014
mA LC->LC MI 30V Range 10mA
4504.11077 0.000091897457510
mA -0.00375 0.00375 Delta : LC->LC MI 30V Range 10mA : 5.00
4504.11078 9.99993
mA 9.9938 10.006 LC->LC FI 30V Range 10mA
4504.11079 -0.000071940000000
mA -0.00625 0.00625 Delta : LC->LC FI 30V Range 10mA : 10.00
4504.11080 Exp= 9.99993 Act= 10.00002
mA LC->LC MI 30V Range 10mA
4504.11081 0.000093682584035
mA -0.00625 0.00625 Delta : LC->LC MI 30V Range 10mA : 10.00
4504.11082 -0.99999
mA -1.0006 -0.99938 LC->LC FI 30V Range 1mA
4504.11083 0.000005249000000
mA -0.000625 0.000625 Delta : LC->LC FI 30V Range 1mA : -1.00
4504.11084 Exp= -0.99999 Act= -0.99999
mA LC->LC MI 30V Range 1mA

4504.11085 0.000003197414407
mA -0.000625 0.000625 Delta : LC->LC MI 30V Range 1mA : -1.00
4504.11086 -0.50000
mA -0.50038 -0.49963 LC->LC FI 30V Range 1mA
4504.11087 -0.000002847000000
mA -0.000375 0.000375 Delta : LC->LC FI 30V Range 1mA : -0.50
4504.11088 Exp= -0.50000 Act= -0.49999
mA LC->LC MI 30V Range 1mA
4504.11089 0.000007965249545
mA -0.000375 0.000375 Delta : LC->LC MI 30V Range 1mA : -0.50
4504.11090 0.00000
mA -0.000125 0.000125 LC->LC FI 30V Range 1mA
4504.11091 -0.000003358853700
mA -0.000125 0.000125 Delta : LC->LC FI 30V Range 1mA : 0.00
4504.11092 Exp= -0.00000 Act= -0.00000
mA LC->LC MI 30V Range 1mA
4504.11093 0.000001754617383
mA -0.000125 0.000125 Delta : LC->LC MI 30V Range 1mA : 0.00
4504.11094 0.50001
mA 0.49963 0.50038 LC->LC FI 30V Range 1mA
4504.11095 0.000005233000000
mA -0.000375 0.000375 Delta : LC->LC FI 30V Range 1mA : 0.50
4504.11096 Exp= 0.50001 Act= 0.50001
mA LC->LC MI 30V Range 1mA
4504.11097 0.000004970327699
mA -0.000375 0.000375 Delta : LC->LC MI 30V Range 1mA : 0.50
4504.11098 1.00000
mA 0.99938 1.0006 LC->LC FI 30V Range 1mA
4504.11099 -0.000001699000000
mA -0.000625 0.000625 Delta : LC->LC FI 30V Range 1mA : 1.00
4504.11100 Exp= 1.00000 Act= 1.00000
mA LC->LC MI 30V Range 1mA

4504.11101 0.000001814693053
mA -0.000625 0.000625 Delta : LC->LC MI 30V Range
1mA : 1.00
4504.11102 -950.00488
mA -950.73 -949.28 LC->LC FI 10V Range 2A
4504.11103 -0.004876000000081
mA -0.725 0.725 Delta : LC->LC FI 10V Range
2A : -950.00
4504.11104 Exp= -950.00488 Act= -950.01433
mA LC->LC MI 10V Range 2A
4504.11105 -0.009457140523637
mA -0.725 0.725 Delta : LC->LC MI 10V Range
2A : -950.00
4504.11106 -475.00326
mA -475.49 -474.51 LC->LC FI 10V Range 2A
4504.11107 -0.003257000000019
mA -0.4875 0.4875 Delta : LC->LC FI 10V Range
2A : -475.00
4504.11108 Exp= -475.00326 Act= -475.00350
mA LC->LC MI 10V Range 2A
4504.11109 -0.000244986339055
mA -0.4875 0.4875 Delta : LC->LC MI 10V Range
2A : -475.00
4504.11110 -0.01051
mA -0.25 0.25 LC->LC FI 10V Range 2A
4504.11111 -0.010509732900000
mA -0.25 0.25 Delta : LC->LC FI 10V Range
2A : 0.00
4504.11112 Exp= -0.01051 Act= -0.00336
mA LC->LC MI 10V Range 2A
4504.11113 0.007152630639943
mA -0.25 0.25 Delta : LC->LC MI 10V Range
2A : 0.00
4504.11114 475.00308
mA 474.51 475.49 LC->LC FI 10V Range 2A
4504.11115 0.003079000000014
mA -0.4875 0.4875 Delta : LC->LC FI 10V Range
2A : 475.00
4504.11116 Exp= 475.00308 Act= 475.01357
mA LC->LC MI 10V Range 2A

4504.11117 0.010488147622141
mA -0.4875 0.4875 Delta : LC->LC MI 10V Range 2A : 475.00
4504.11118 950.00225
mA 949.28 950.73 LC->LC FI 10V Range 2A
4504.11119 0.002252999999996
mA -0.725 0.725 Delta : LC->LC FI 10V Range 2A : 950.00
4504.11120 Exp= 950.00225 Act= 950.01494
mA LC->LC MI 10V Range 2A
4504.11121 0.012683968112924
mA -0.725 0.725 Delta : LC->LC MI 10V Range 2A : 950.00
4504.11122 -200.00137
mA -200.13 -199.88 LC->LC FI 10V Range 200mA
4504.11123 -0.001366000000019
mA -0.125 0.125 Delta : LC->LC FI 10V Range 200mA : -200.00
4504.11124 Exp= -200.00137 Act= -200.00118
mA LC->LC MI 10V Range 200mA
4504.11125 0.000183689080814
mA -0.125 0.125 Delta : LC->LC MI 10V Range 200mA : -200.00
4504.11126 -100.00061
mA -100.08 -99.925 LC->LC FI 10V Range 200mA
4504.11127 -0.000608999999997
mA -0.075 0.075 Delta : LC->LC FI 10V Range 200mA : -100.00
4504.11128 Exp= -100.00061 Act= -99.99915
mA LC->LC MI 10V Range 200mA
4504.11129 0.001460024261704
mA -0.075 0.075 Delta : LC->LC MI 10V Range 200mA : -100.00
4504.11130 -0.00245
mA -0.025 0.025 LC->LC FI 10V Range 200mA
4504.11131 -0.002454828120000
mA -0.025 0.025 Delta : LC->LC FI 10V Range 200mA : 0.00
4504.11132 Exp= -0.00245 Act= 0.00047
mA LC->LC MI 10V Range 200mA

4504.11133 0.002920491164685
mA -0.025 0.025 Delta : LC->LC MI 10V Range 200mA : 0.00
4504.11134 100.00026
mA 99.925 100.08 LC->LC FI 10V Range 200mA
4504.11135 0.000262000000006
mA -0.075 0.075 Delta : LC->LC FI 10V Range 200mA : 100.00
4504.11136 Exp= 100.00026 Act= 100.00037
mA LC->LC MI 10V Range 200mA
4504.11137 0.000112094648060
mA -0.075 0.075 Delta : LC->LC MI 10V Range 200mA : 100.00
4504.11138 199.99861
mA 199.88 200.13 LC->LC FI 10V Range 200mA
4504.11139 -0.001390000000015
mA -0.125 0.125 Delta : LC->LC FI 10V Range 200mA : 200.00
4504.11140 Exp= 199.99861 Act= 200.00175
mA LC->LC MI 10V Range 200mA
4504.11141 0.003137220131094
mA -0.125 0.125 Delta : LC->LC MI 10V Range 200mA : 200.00
4504.11142 -20.00014
mA -20.013 -19.988 LC->LC FI 10V Range 20mA
4504.11143 -0.000136500000000
mA -0.0125 0.0125 Delta : LC->LC FI 10V Range 20mA : -20.00
4504.11144 Exp= -20.00014 Act= -19.99992
mA LC->LC MI 10V Range 20mA
4504.11145 0.000219868849204
mA -0.0125 0.0125 Delta : LC->LC MI 10V Range 20mA : -20.00
4504.11146 -10.00023
mA -10.008 -9.9925 LC->LC FI 10V Range 20mA
4504.11147 -0.000228900000000
mA -0.0075 0.0075 Delta : LC->LC FI 10V Range 20mA : -10.00
4504.11148 Exp= -10.00023 Act= -10.00000
mA LC->LC MI 10V Range 20mA

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4504.11149                                                  0.000231818337250
mA              -0.0075          0.0075       Delta : LC->LC MI 10V Range
20mA : -10.00
4504.11150                                                        -0.00032
mA              -0.0025          0.0025       LC->LC FI 10V Range 20mA
4504.11151                                          -0.000320698746000
mA              -0.0025          0.0025       Delta : LC->LC FI 10V Range
20mA : 0.00
4504.11152                    Exp= -0.00032    Act= -0.00004
mA                                  LC->LC MI 10V Range 20mA
4504.11153                                   0.000283503591531
mA              -0.0025          0.0025       Delta : LC->LC MI 10V Range
20mA : 0.00
4504.11154                                                        9.99999
mA               9.9925          10.008       LC->LC FI 10V Range 20mA
4504.11155                                          -0.000012330000001
mA              -0.0075          0.0075       Delta : LC->LC FI 10V Range
20mA : 10.00
4504.11156                    Exp= 9.99999     Act= 10.00018
mA                                  LC->LC MI 10V Range 20mA
4504.11157                                   0.000194704991793
mA              -0.0075          0.0075       Delta : LC->LC MI 10V Range
20mA : 10.00
4504.11158                                                       19.99957
mA               19.988          20.013       LC->LC FI 10V Range 20mA
4504.11159                                          -0.000434400000000
mA              -0.0125          0.0125       Delta : LC->LC FI 10V Range
20mA : 20.00
4504.11160                    Exp= 19.99957    Act= 20.00002
mA                                  LC->LC MI 10V Range 20mA
4504.11161                                   0.000450814313613
mA              -0.0125          0.0125       Delta : LC->LC MI 10V Range
20mA : 20.00
4504.11162                                                       -1.99999
mA              -2.0013          -1.9988      LC->LC FI 10V Range 2mA
4504.11163                                   0.000005380000000
mA             -0.00125         0.00125       Delta : LC->LC FI 10V Range
2mA : -2.00
4504.11164                    Exp= -1.99999    Act= -2.00001
mA                                  LC->LC MI 10V Range 2mA
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4504.11165 -0.000013307723136
mA -0.00125 0.00125 Delta : LC->LC MI 10V Range 2mA : -2.00
4504.11166 -1.00001
mA -1.0008 -0.99925 LC->LC FI 10V Range 2mA
4504.11167 -0.000014660000000
mA -0.00075 0.00075 Delta : LC->LC FI 10V Range 2mA : -1.00
4504.11168 Exp= -1.00001 Act= -0.99999
mA LC->LC MI 10V Range 2mA
4504.11169 0.000021942923531
mA -0.00075 0.00075 Delta : LC->LC MI 10V Range 2mA : -1.00
4504.11170 -0.00002
mA -0.00025 0.00025 LC->LC FI 10V Range 2mA
4504.11171 -0.000016987283600
mA -0.00025 0.00025 Delta : LC->LC FI 10V Range 2mA : 0.00
4504.11172 Exp= -0.00002 Act= 0.00000
mA LC->LC MI 10V Range 2mA
4504.11173 0.000018838280549
mA -0.00025 0.00025 Delta : LC->LC MI 10V Range 2mA : 0.00
4504.11174 1.00001
mA 0.99925 1.0008 LC->LC FI 10V Range 2mA
4504.11175 0.000005050000000
mA -0.00075 0.00075 Delta : LC->LC FI 10V Range 2mA : 1.00
4504.11176 Exp= 1.00001 Act= 1.00003
mA LC->LC MI 10V Range 2mA
4504.11177 0.000021223441599
mA -0.00075 0.00075 Delta : LC->LC MI 10V Range 2mA : 1.00
4504.11178 1.99998
mA 1.9988 2.0013 LC->LC FI 10V Range 2mA
4504.11179 -0.000017370000000
mA -0.00125 0.00125 Delta : LC->LC FI 10V Range 2mA : 2.00
4504.11180 Exp= 1.99998 Act= 1.99999
mA LC->LC MI 10V Range 2mA

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4504.11181                                                  0.000003707986966
mA              -0.00125              0.00125       Delta : LC->LC MI 10V Range
2mA : 2.00
4504.11182                          Chk RSense100A =   2.00739 mOhms
4504.11183                                                              0
status                                    0
4504.11184                                                      -29.99891
mA               -60.15               0.15        HC->HC FI 10V Range 100A
4504.11185                                                  0.001086173681742
mA               -30.15               30.15       Delta : HC->HC FI 10V Range
100A : -30.00
4504.11186                        Exp= -29.99891   Act= -30.00012
mA                                      HC->HC MI 10V Range 100A
4504.11187                                             -0.001206848714350
mA               -30.15               30.15       Delta : HC->HC MI 10V Range
100A : -30.00
4504.11188                                                      -14.99614
mA              -45.075              15.075       HC->HC FI 10V Range 100A
4504.11189                                                  0.003863095395781
mA              -30.075              30.075       Delta : HC->HC FI 10V Range
100A : -15.00
4504.11190                        Exp= -14.99614   Act= -14.99952
mA                                      HC->HC MI 10V Range 100A
4504.11191                                           -0.003383204135726
mA              -30.075              30.075       Delta : HC->HC MI 10V Range
100A : -15.00
4504.11192                                                      0.00000
mA                  -30                  30       HC->HC FI 10V Range 100A
4504.11193                                                  0.000000000000000
mA                  -30                  30       Delta : HC->HC FI 10V Range
100A : 0.00
4504.11194                        Exp= 0.00000     Act= 0.00032
mA                                      HC->HC MI 10V Range 100A
4504.11195                                                  0.000322912292346
mA                  -30                  30       Delta : HC->HC MI 10V Range
100A : 0.00
4504.11196                                                      15.00999
mA              -15.075              45.075       HC->HC FI 10V Range 100A
4504.11197                                                  0.009990130669586
mA              -30.075              30.075       Delta : HC->HC FI 10V Range
```

100A : 15.00
4504.11198 Exp= 15.00999 Act= 14.99917
mA HC->HC MI 10V Range 100A
4504.11199 -0.010820089528059
mA -30.075 30.075 Delta : HC->HC MI 10V Range
100A : 15.00
4504.11200 30.00474
mA -0.15 60.15 HC->HC FI 10V Range 100A
4504.11201 0.004735498460036
mA -30.15 30.15 Delta : HC->HC FI 10V Range
100A : 30.00
4504.11202 Exp= 30.00474 Act= 29.99920
mA HC->HC MI 10V Range 100A
4504.11203 -0.005531182144043
mA -30.15 30.15 Delta : HC->HC MI 10V Range
100A : 30.00
4504.11204 -949.91949
mA -957.75 -942.25 HC->HC FI 75V Range 10A
4504.11205 0.080513999999994
mA -7.75 7.75 Delta : HC->HC FI 75V Range
10A : -950.00
4504.11206 Exp= -949.91949 Act= -949.92976
mA HC->HC MI 75V Range 10A
4504.11207 -0.010274903211666
mA -7.75 7.75 Delta : HC->HC MI 75V Range
10A : -950.00
4504.11208 -475.13617
mA -480.38 -469.63 HC->HC FI 75V Range 10A
4504.11209 -0.136172999999985
mA -5.375 5.375 Delta : HC->HC FI 75V Range
10A : -475.00
4504.11210 Exp= -475.13617 Act= -474.93420
mA HC->HC MI 75V Range 10A
4504.11211 0.201974353313915
mA -5.375 5.375 Delta : HC->HC MI 75V Range
10A : -475.00
4504.11212 -0.02400
mA -3 3 HC->HC FI 75V Range 10A
4504.11213 -0.023995945000000
mA -3 3 Delta : HC->HC FI 75V Range

10A : 0.00
4504.11214 Exp= -0.02400 Act= 0.04975
mA HC->HC MI 75V Range 10A
4504.11215 0.073745474475229
mA -3 3 Delta : HC->HC MI 75V Range
10A : 0.00
4504.11216 475.18579
mA 469.63 480.38 HC->HC FI 75V Range 10A
4504.11217 0.185793999999987
mA -5.375 5.375 Delta : HC->HC FI 75V Range
10A : 475.00
4504.11218 Exp= 475.18579 Act= 475.01999
mA HC->HC MI 75V Range 10A
4504.11219 -0.165807361460054
mA -5.375 5.375 Delta : HC->HC MI 75V Range
10A : 475.00
4504.11220 950.00905
mA 942.25 957.75 HC->HC FI 75V Range 10A
4504.11221 0.009048000000007
mA -7.75 7.75 Delta : HC->HC FI 75V Range
10A : 950.00
4504.11222 Exp= 950.00905 Act= 949.87360
mA HC->HC MI 75V Range 10A
4504.11223 -0.135448976052885
mA -7.75 7.75 Delta : HC->HC MI 75V Range
10A : 950.00
4504.11224 -949.91949
mA -954.62 -945.39 HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11225 0.080513999999994
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11226 Exp= -949.91949 Act= -949.92976
mA HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11227 -0.010274903211666
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11228 -475.13617
mA -478.81 -471.19 HC->HC V/I Mode Current

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Force/Measure with booster check 75V Range 10A
4504.11229                                                  -0.136172999999985
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11230                                  Exp= -475.13617  Act= -474.93420
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11231                                                   0.201974353313915
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11232                                                          -0.02400
mA                  -3                    3       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11233                                                  -0.023995945000000
mA                  -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11234                                  Exp= -0.02400    Act= 0.04975
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11235                                                   0.073745474475229
mA                  -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11236                                                         475.18579
mA               471.19               478.81       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11237                                                   0.185793999999987
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11238                                  Exp= 475.18579   Act= 475.01999
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11239                                                  -0.165807361460054
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11240                                                         950.00905
mA               945.39               954.62       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11241                                                   0.009048000000007
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
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4504.11242 Exp= 950.00905 Act= 949.87360
mA HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11243 -0.135448976052885
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11244 -949.99511
mA -953.15 -946.85 HC->HC FI 75V Range 4A
4504.11245 0.004888000000051
mA -3.15 3.15 Delta : HC->HC FI 75V Range
4A : -950.00
4504.11246 Exp= -949.99511 Act= -949.97933
mA HC->HC MI 75V Range 4A
4504.11247 0.015786597287729
mA -3.15 3.15 Delta : HC->HC MI 75V Range
4A : -950.00
4504.11248 -475.06849
mA -477.2 -472.8 HC->HC FI 75V Range 4A
4504.11249 -0.068486000000007
mA -2.2 2.2 Delta : HC->HC FI 75V Range
4A : -475.00
4504.11250 Exp= -475.06849 Act= -474.99700
mA HC->HC MI 75V Range 4A
4504.11251 0.071482546312268
mA -2.2 2.2 Delta : HC->HC MI 75V Range
4A : -475.00
4504.11252 -0.03394
mA -1.25 1.25 HC->HC FI 75V Range 4A
4504.11253 -0.033937999300000
mA -1.25 1.25 Delta : HC->HC FI 75V Range
4A : 0.00
4504.11254 Exp= -0.03394 Act= 0.00187
mA HC->HC MI 75V Range 4A
4504.11255 0.035805428854114
mA -1.25 1.25 Delta : HC->HC MI 75V Range
4A : 0.00
4504.11256 475.05145
mA 472.8 477.2 HC->HC FI 75V Range 4A
4504.11257 0.051445000000001
mA -2.2 2.2 Delta : HC->HC FI 75V Range

4A : 475.00
4504.11258 Exp= 475.05145 Act= 474.99417
mA HC->HC MI 75V Range 4A
4504.11259 -0.057273724591767
mA -2.2 2.2 Delta : HC->HC MI 75V Range
4A : 475.00
4504.11260 950.06238
mA 946.85 953.15 HC->HC FI 75V Range 4A
4504.11261 0.062382000000071
mA -3.15 3.15 Delta : HC->HC FI 75V Range
4A : 950.00
4504.11262 Exp= 950.06238 Act= 950.01557
mA HC->HC MI 75V Range 4A
4504.11263 -0.046814903109748
mA -3.15 3.15 Delta : HC->HC MI 75V Range
4A : 950.00
4504.11264 -949.92358
mA -957.75 -942.25 HC->HC FI 30V Range 10A
4504.11265 0.076424999999972
mA -7.75 7.75 Delta : HC->HC FI 30V Range
10A : -950.00
4504.11266 Exp= -949.92358 Act= -949.93308
mA HC->HC MI 30V Range 10A
4504.11267 -0.009505158134516
mA -7.75 7.75 Delta : HC->HC MI 30V Range
10A : -950.00
4504.11268 -475.10916
mA -480.38 -469.63 HC->HC FI 30V Range 10A
4504.11269 -0.109159999999974
mA -5.375 5.375 Delta : HC->HC FI 30V Range
10A : -475.00
4504.11270 Exp= -475.10916 Act= -474.93449
mA HC->HC MI 30V Range 10A
4504.11271 0.174674688383732
mA -5.375 5.375 Delta : HC->HC MI 30V Range
10A : -475.00
4504.11272 -0.01023
mA -3 3 HC->HC FI 30V Range 10A
4504.11273 -0.010233564600000
mA -3 3 Delta : HC->HC FI 30V Range

10A : 0.00
4504.11274 Exp= -0.01023 Act= 0.06346
mA HC->HC MI 30V Range 10A
4504.11275 0.073697868257383
mA -3 3 Delta : HC->HC MI 30V Range
10A : 0.00
4504.11276 475.10701
mA 469.63 480.38 HC->HC FI 30V Range 10A
4504.11277 0.107008000000008
mA -5.375 5.375 Delta : HC->HC FI 30V Range
10A : 475.00
4504.11278 Exp= 475.10701 Act= 474.95447
mA HC->HC MI 30V Range 10A
4504.11279 -0.152541159855048
mA -5.375 5.375 Delta : HC->HC MI 30V Range
10A : 475.00
4504.11280 950.01235
mA 942.25 957.75 HC->HC FI 30V Range 10A
4504.11281 0.012349999999969
mA -7.75 7.75 Delta : HC->HC FI 30V Range
10A : 950.00
4504.11282 Exp= 950.01235 Act= 949.89483
mA HC->HC MI 30V Range 10A
4504.11283 -0.117520433158461
mA -7.75 7.75 Delta : HC->HC MI 30V Range
10A : 950.00
4504.11284 -949.92358
mA -954.62 -945.39 HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11285 0.076424999999972
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11286 Exp= -949.92358 Act= -949.93308
mA HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11287 -0.009505158134516
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11288 -475.10916
mA -478.81 -471.19 HC->HC V/I Mode Current

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Force/Measure with booster check 30V Range 10A
4504.11289                                                  -0.109159999999974
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11290                                Exp= -475.10916  Act= -474.93449
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11291                                                   0.174674688383732
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11292                                                          -0.01023
mA                   -3                   3       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11293                                                  -0.010233564600000
mA                   -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11294                                Exp= -0.01023    Act= 0.06346
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11295                                                   0.073697868257383
mA                   -3                   3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11296                                                          475.10701
mA               471.19               478.81       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11297                                                   0.107008000000008
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11298                                Exp= 475.10701   Act= 474.95447
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11299                                                  -0.152541159855048
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11300                                                          950.01235
mA               945.39               954.62       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11301                                                   0.012349999999969
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
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4504.11302 Exp= 950.01235 Act= 949.89483
mA HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11303 -0.117520433158461
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11304 -950.00260
mA -953.15 -946.85 HC->HC FI 30V Range 4A
4504.11305 -0.002598999999918
mA -3.15 3.15 Delta : HC->HC FI 30V Range
4A : -950.00
4504.11306 Exp= -950.00260 Act= -949.99184
mA HC->HC MI 30V Range 4A
4504.11307 0.010758007930008
mA -3.15 3.15 Delta : HC->HC MI 30V Range
4A : -950.00
4504.11308 -475.07967
mA -477.2 -472.8 HC->HC FI 30V Range 4A
4504.11309 -0.079668000000027
mA -2.2 2.2 Delta : HC->HC FI 30V Range
4A : -475.00
4504.11310 Exp= -475.07967 Act= -475.01223
mA HC->HC MI 30V Range 4A
4504.11311 0.067435418608170
mA -2.2 2.2 Delta : HC->HC MI 30V Range
4A : -475.00
4504.11312 -0.01807
mA -1.25 1.25 HC->HC FI 30V Range 4A
4504.11313 -0.018073671500000
mA -1.25 1.25 Delta : HC->HC FI 30V Range
4A : 0.00
4504.11314 Exp= -0.01807 Act= 0.01919
mA HC->HC MI 30V Range 4A
4504.11315 0.037263187076873
mA -1.25 1.25 Delta : HC->HC MI 30V Range
4A : 0.00
4504.11316 475.06457
mA 472.8 477.2 HC->HC FI 30V Range 4A
4504.11317 0.064570000000003
mA -2.2 2.2 Delta : HC->HC FI 30V Range

4A : 475.00
4504.11318 Exp= 475.06457 Act= 475.00051
mA HC->HC MI 30V Range 4A
4504.11319 -0.064064651890078
mA -2.2 2.2 Delta : HC->HC MI 30V Range
4A : 475.00
4504.11320 950.03959
mA 946.85 953.15 HC->HC FI 30V Range 4A
4504.11321 0.039588999999978
mA -3.15 3.15 Delta : HC->HC FI 30V Range
4A : 950.00
4504.11322 Exp= 950.03959 Act= 949.98721
mA HC->HC MI 30V Range 4A
4504.11323 -0.052382873506872
mA -3.15 3.15 Delta : HC->HC MI 30V Range
4A : 950.00
4504.11324 -950.33634
mA -957.75 -942.25 HC->HC FI 10V Range 10A
4504.11325 -0.336336999999958
mA -7.75 7.75 Delta : HC->HC FI 10V Range
10A : -950.00
4504.11326 Exp= -950.33634 Act= -949.98862
mA HC->HC MI 10V Range 10A
4504.11327 0.347714459685221
mA -7.75 7.75 Delta : HC->HC MI 10V Range
10A : -950.00
4504.11328 -474.59791
mA -480.38 -469.63 HC->HC FI 10V Range 10A
4504.11329 0.402093000000036
mA -5.375 5.375 Delta : HC->HC FI 10V Range
10A : -475.00
4504.11330 Exp= -474.59791 Act= -474.98540
mA HC->HC MI 10V Range 10A
4504.11331 -0.387495455206363
mA -5.375 5.375 Delta : HC->HC MI 10V Range
10A : -475.00
4504.11332 -0.02568
mA -3 3 HC->HC FI 10V Range 10A
4504.11333 -0.025683639600000
mA -3 3 Delta : HC->HC FI 10V Range

10A : 0.00
4504.11334 Exp= -0.02568 Act= 0.00234
mA HC->HC MI 10V Range 10A
4504.11335 0.028028494910366
mA -3 3 Delta : HC->HC MI 10V Range
10A : 0.00
4504.11336 474.68104
mA 469.63 480.38 HC->HC FI 10V Range 10A
4504.11337 -0.318961999999999
mA -5.375 5.375 Delta : HC->HC FI 10V Range
10A : 475.00
4504.11338 Exp= 474.68104 Act= 474.95060
mA HC->HC MI 10V Range 10A
4504.11339 0.269566355670975
mA -5.375 5.375 Delta : HC->HC MI 10V Range
10A : 475.00
4504.11340 950.25672
mA 942.25 957.75 HC->HC FI 10V Range 10A
4504.11341 0.256716999999981
mA -7.75 7.75 Delta : HC->HC FI 10V Range
10A : 950.00
4504.11342 Exp= 950.25672 Act= 949.91708
mA HC->HC MI 10V Range 10A
4504.11343 -0.339640398875872
mA -7.75 7.75 Delta : HC->HC MI 10V Range
10A : 950.00
4504.11344 -950.33634
mA -954.62 -945.39 HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11345 -0.336336999999958
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11346 Exp= -950.33634 Act= -949.98862
mA HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11347 0.347714459685221
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11348 -474.59791
mA -478.81 -471.19 HC->HC V/I Mode Current

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Force/Measure with booster check 10V Range 10A
4504.11349                                                    0.402093000000036
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11350                                  Exp= -474.59791  Act= -474.98540
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11351                                                  -0.387495455206363
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11352                                                          -0.02568
mA                   -3                    3       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11353                                                  -0.025683639600000
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11354                                  Exp= -0.02568    Act= 0.00234
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11355                                                   0.028028494910366
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11356                                                          474.68104
mA               471.19               478.81       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11357                                                  -0.318961999999999
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11358                                  Exp= 474.68104   Act= 474.95060
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11359                                                   0.269566355670975
mA              -3.8075              3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11360                                                          950.25672
mA               945.39               954.62       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11361                                                   0.256716999999981
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
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4504.11362 Exp= 950.25672 Act= 949.91708
mA HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11363 -0.339640398875872
mA -4.615 4.615 Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11364 -949.99911
mA -953.15 -946.85 HC->HC FI 10V Range 4A
4504.11365 0.000894000000017
mA -3.15 3.15 Delta : HC->HC FI 10V Range
4A : -950.00
4504.11366 Exp= -949.99911 Act= -949.96493
mA HC->HC MI 10V Range 4A
4504.11367 0.034172746110698
mA -3.15 3.15 Delta : HC->HC MI 10V Range
4A : -950.00
4504.11368 -474.99697
mA -477.2 -472.8 HC->HC FI 10V Range 4A
4504.11369 0.003027999999972
mA -2.2 2.2 Delta : HC->HC FI 10V Range
4A : -475.00
4504.11370 Exp= -474.99697 Act= -474.98298
mA HC->HC MI 10V Range 4A
4504.11371 0.013988112218101
mA -2.2 2.2 Delta : HC->HC MI 10V Range
4A : -475.00
4504.11372 -0.02628
mA -1.25 1.25 HC->HC FI 10V Range 4A
4504.11373 -0.026282004200000
mA -1.25 1.25 Delta : HC->HC FI 10V Range
4A : 0.00
4504.11374 Exp= -0.02628 Act= 0.01348
mA HC->HC MI 10V Range 4A
4504.11375 0.039766425062369
mA -1.25 1.25 Delta : HC->HC MI 10V Range
4A : 0.00
4504.11376 474.98573
mA 472.8 477.2 HC->HC FI 10V Range 4A
4504.11377 -0.014274999999998
mA -2.2 2.2 Delta : HC->HC FI 10V Range

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4A : 475.00
4504.11378                              Exp= 474.98573   Act= 474.99603
mA                                              HC->HC MI 10V Range 4A
4504.11379                                             0.010300056122901
mA                -2.2                  2.2       Delta : HC->HC MI 10V Range
4A : 475.00
4504.11380                                                      950.08999
mA               946.85                953.15       HC->HC FI 10V Range 4A
4504.11381                                             0.089991000000055
mA                -3.15                 3.15       Delta : HC->HC FI 10V Range
4A : 950.00
4504.11382                              Exp= 950.08999   Act= 950.02022
mA                                              HC->HC MI 10V Range 4A
4504.11383                                            -0.069773681610627
mA                -3.15                 3.15       Delta : HC->HC MI 10V Range
4A : 950.00
4505.10000                                           HC relays verified
DIB HC Relays Check
4505.10001                                                           0
status                                        0      DIB HC Relays Check
4505.10002                              Exp= -9.49938    Act= -9.49944
V                                               LC->LC MV PGA 100V Range 10X
4505.10003                                            -0.000061905361477
V            -0.008375              0.008375       Delta : LC->LC MV PGA 100V
Range 10X : -9.50
4505.10004                              Exp= 0.00024     Act= 0.00021
V                                               LC->LC MV PGA 100V Range 10X
4505.10005                                            -0.000035933239038
V              -0.006                  0.006       Delta : LC->LC MV PGA 100V
Range 10X : 0.00
4505.10006                              Exp= 9.50006     Act= 9.50003
V                                               LC->LC MV PGA 100V Range 10X
4505.10007                                            -0.000023202869396
V            -0.008375              0.008375       Delta : LC->LC MV PGA 100V
Range 10X : 9.50
4505.10008                              Exp= -0.94961    Act= -0.94969
V                                               LC->LC MV PGA 100V Range 100X
4505.10009                                            -0.000079203187812
V           -0.0062375             0.0062375       Delta : LC->LC MV PGA 100V
Range 100X : -0.95
```

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4505.10010                                  Exp= 0.00017     Act= 0.00013
V                                                LC->LC MV PGA 100V Range 100X
4505.10011                                               -0.000043011107203
V               -0.006              0.006        Delta : LC->LC MV PGA 100V
Range 100X : 0.00
4505.10012                                  Exp= 0.95020     Act= 0.95012
V                                                LC->LC MV PGA 100V Range 100X
4505.10013                                               -0.000087034688725
V           -0.0062375          0.0062375        Delta : LC->LC MV PGA 100V
Range 100X : 0.95
4505.10014                                  Exp= -2.84995    Act= -2.84999
V                                                LC->LC MV PGA 30V Range 10X
4505.10015                                               -0.000043600690077
V           -0.0027125          0.0027125        Delta : LC->LC MV PGA 30V Range
10X : -2.85
4505.10016                                  Exp= 0.00014     Act= 0.00010
V                                                LC->LC MV PGA 30V Range 10X
4505.10017                                               -0.000036252977377
V               -0.002              0.002        Delta : LC->LC MV PGA 30V Range
10X : 0.00
4505.10018                                  Exp= 2.84994     Act= 2.84994
V                                                LC->LC MV PGA 30V Range 10X
4505.10019                                               -0.000002048586941
V           -0.0027125          0.0027125        Delta : LC->LC MV PGA 30V Range
10X : 2.85
4505.10020                                  Exp= -0.28493    Act= -0.28495
V                                                LC->LC MV PGA 30V Range 100X
4505.10021                                               -0.000018953121031
V         -0.00207125         0.00207125         Delta : LC->LC MV PGA 30V Range
100X : -0.29
4505.10022                                  Exp= 0.00012     Act= 0.00012
V                                                LC->LC MV PGA 30V Range 100X
4505.10023                                                0.000001924910452
V               -0.002              0.002        Delta : LC->LC MV PGA 30V Range
100X : 0.00
4505.10024                                  Exp= 0.28514     Act= 0.28513
V                                                LC->LC MV PGA 30V Range 100X
4505.10025                                               -0.000012366518060
V          -0.00207125         0.00207125         Delta : LC->LC MV PGA 30V Range
100X : 0.29
```

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4505.10026                                  Exp= -0.94997    Act= -0.94998
V                                               LC->LC MV PGA 10V Range 10X
4505.10027                                             -0.000007107364911
V           -0.0008375           0.0008375       Delta : LC->LC MV PGA 10V Range
10X : -0.95
4505.10028                                  Exp= -0.00000    Act= -0.00000
V                                               LC->LC MV PGA 10V Range 10X
4505.10029                                             -0.000002306942796
V              -0.0006              0.0006       Delta : LC->LC MV PGA 10V Range
10X : 0.00
4505.10030                                  Exp= 0.95003     Act= 0.95003
V                                               LC->LC MV PGA 10V Range 10X
4505.10031                                              0.000005876188946
V           -0.0008375           0.0008375       Delta : LC->LC MV PGA 10V Range
10X : 0.95
4505.10032                                  Exp= -0.09493    Act= -0.09493
V                                               LC->LC MV PGA 10V Range 100X
4505.10033                                              0.000004106651669
V          -0.00062375          0.00062375       Delta : LC->LC MV PGA 10V Range
100X : -0.10
4505.10034                                  Exp= 0.00000     Act= 0.00001
V                                               LC->LC MV PGA 10V Range 100X
4505.10035                                              0.000003204651492
V              -0.0006              0.0006       Delta : LC->LC MV PGA 10V Range
100X : 0.00
4505.10036                                  Exp= 0.09500     Act= 0.09500
V                                               LC->LC MV PGA 10V Range 100X
4505.10037                                              0.000005002807721
V          -0.00062375          0.00062375       Delta : LC->LC MV PGA 10V Range
100X : 0.10
4505.10038                                  Exp= -6.99975    Act= -6.99977
V                                               HC->HC MV PGA 75V Range 10X
4505.10039                                             -0.000021890805904
V             -0.00775             0.00775       Delta : HC->HC MV PGA 75V Range
10X : -7.00
4505.10040                                  Exp= 0.00012     Act= 0.00020
V                                               HC->HC MV PGA 75V Range 10X
4505.10041                                              0.000082712259523
V               -0.006               0.006       Delta : HC->HC MV PGA 75V Range
10X : 0.00
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4505.10042 Exp= 7.00028 Act= 7.00027
V HC->HC MV PGA 75V Range 10X
4505.10043 -0.000012099711533
V -0.00775 0.00775 Delta : HC->HC MV PGA 75V Range
10X : 7.00
4505.10044 Exp= -0.69965 Act= -0.69971
V HC->HC MV PGA 75V Range 100X
4505.10045 -0.000059931117013
V -0.003175 0.003175 Delta : HC->HC MV PGA 75V Range
100X : -0.70
4505.10046 Exp= 0.00011 Act= 0.00007
V HC->HC MV PGA 75V Range 100X
4505.10047 -0.000041530020718
V -0.003 0.003 Delta : HC->HC MV PGA 75V Range
100X : 0.00
4505.10048 Exp= 0.70017 Act= 0.70013
V HC->HC MV PGA 75V Range 100X
4505.10049 -0.000037439510710
V -0.003175 0.003175 Delta : HC->HC MV PGA 75V Range
100X : 0.70
4505.10050 Exp= -2.79998 Act= -2.80000
V HC->HC MV PGA 30V Range 10X
4505.10051 -0.000022570018594
V -0.0027 0.0027 Delta : HC->HC MV PGA 30V Range
10X : -2.80
4505.10052 Exp= 0.00012 Act= 0.00012
V HC->HC MV PGA 30V Range 10X
4505.10053 -0.000000986797266
V -0.002 0.002 Delta : HC->HC MV PGA 30V Range
10X : 0.00
4505.10054 Exp= 2.80018 Act= 2.80018
V HC->HC MV PGA 30V Range 10X
4505.10055 0.000002677238365
V -0.0027 0.0027 Delta : HC->HC MV PGA 30V Range
10X : 2.80
4505.10056 Exp= -0.27987 Act= -0.27987
V HC->HC MV PGA 30V Range 100X
4505.10057 0.000000239710184
V -0.00107 0.00107 Delta : HC->HC MV PGA 30V Range
100X : -0.28

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4505.10058                                  Exp= 0.00014     Act= 0.00012
V                                                HC->HC MV PGA 30V Range 100X
4505.10059                                               -0.000017900652718
V                -0.001                0.001       Delta : HC->HC MV PGA 30V Range
100X : 0.00
4505.10060                                  Exp= 0.28008     Act= 0.28008
V                                                HC->HC MV PGA 30V Range 100X
4505.10061                                               -0.000007694253794
V              -0.00107               0.00107       Delta : HC->HC MV PGA 30V Range
100X : 0.28
4505.10062                                  Exp= -0.84994    Act= -0.84995
V                                                HC->HC MV PGA 10V Range 10X
4505.10063                                               -0.000004873528409
V            -0.0008125             0.0008125       Delta : HC->HC MV PGA 10V Range
10X : -0.85
4505.10064                                  Exp= 0.00007     Act= 0.00006
V                                                HC->HC MV PGA 10V Range 10X
4505.10065                                               -0.000010891918336
V               -0.0006                0.0006       Delta : HC->HC MV PGA 10V Range
10X : 0.00
4505.10066                                  Exp= 0.85007     Act= 0.85006
V                                                HC->HC MV PGA 10V Range 10X
4505.10067                                               -0.000002623205117
V            -0.0008125             0.0008125       Delta : HC->HC MV PGA 10V Range
10X : 0.85
4505.10068                                  Exp= -0.08495    Act= -0.08495
V                                                HC->HC MV PGA 10V Range 100X
4505.10069                                                0.000001791900914
V          -0.00032125            0.00032125       Delta : HC->HC MV PGA 10V Range
100X : -0.09
4505.10070                                  Exp= 0.00008     Act= 0.00007
V                                                HC->HC MV PGA 10V Range 100X
4505.10071                                               -0.000010788613865
V               -0.0003                0.0003       Delta : HC->HC MV PGA 10V Range
100X : 0.00
4505.10072                                  Exp= 0.08500     Act= 0.08499
V                                                HC->HC MV PGA 10V Range 100X
4505.10073                                               -0.000014774521664
V            -0.00032125            0.00032125       Delta : HC->HC MV PGA 10V Range
100X : 0.09
```

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4506.10000                                                HC relays verified
DIB HC Relays Check
4506.10001                                                                0
status                                              0       DIB HC Relays Check
4506.10002                                    Exp= -0.80000    Act= -0.80001
V                                                MV Pedestal LC 0V Pedestal
4506.10003                                                -0.000005550745208
V             -0.00033          0.00033       Delta : MV Pedestal LC 0V
Pedestal : -0.80
4506.10004                                    Exp= -0.39990    Act= -0.39991
V                                                MV Pedestal LC 0V Pedestal
4506.10005                                                -0.000010391508929
V             -0.00029          0.00029       Delta : MV Pedestal LC 0V
Pedestal : -0.40
4506.10006                                    Exp= 0.00014     Act= 0.00012
V                                                MV Pedestal LC 0V Pedestal
4506.10007                                                -0.000023780152120
V             -0.00025          0.00025       Delta : MV Pedestal LC 0V
Pedestal : 0.00
4506.10008                                    Exp= 0.40022     Act= 0.40022
V                                                MV Pedestal LC 0V Pedestal
4506.10009                                                -0.000008469634853
V             -0.00029          0.00029       Delta : MV Pedestal LC 0V
Pedestal : 0.40
4506.10010                                    Exp= 0.80016     Act= 0.80017
V                                                MV Pedestal LC 0V Pedestal
4506.10011                                                 0.000001607667085
V             -0.00033          0.00033       Delta : MV Pedestal LC 0V
Pedestal : 0.80
4506.10012                                    Exp= 0.30020     Act= 0.30019
V                                                MV Pedestal LC 1V Pedestal
4506.10013                                                -0.000011394413548
V             -0.00028          0.00028       Delta : MV Pedestal LC 1V
Pedestal : 0.30
4506.10014                                    Exp= 0.60021     Act= 0.60022
V                                                MV Pedestal LC 1V Pedestal
4506.10015                                                 0.000009991619029
V             -0.00031          0.00031       Delta : MV Pedestal LC 1V
Pedestal : 0.60
4506.10016                                    Exp= 1.00016     Act= 1.00016
```

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V                                                    MV Pedestal LC 1V Pedestal
4506.10017                                                  -0.000000920490324
V             -0.00035              0.00035          Delta : MV Pedestal LC 1V
Pedestal : 1.00
4506.10018                                 Exp= 1.30017     Act= 1.30016
V                                                    MV Pedestal LC 1V Pedestal
4506.10019                                                  -0.000004202852320
V             -0.00038              0.00038          Delta : MV Pedestal LC 1V
Pedestal : 1.30
4506.10020                                 Exp= 1.70021     Act= 1.70022
V                                                    MV Pedestal LC 1V Pedestal
4506.10021                                                   0.000008751501531
V             -0.00042              0.00042          Delta : MV Pedestal LC 1V
Pedestal : 1.70
4506.10022                                 Exp= 2.40028     Act= 2.40029
V                                                    MV Pedestal LC 3V Pedestal
4506.10023                                                   0.000007232845992
V             -0.00049              0.00049          Delta : MV Pedestal LC 3V
Pedestal : 2.40
4506.10024                                 Exp= 2.70033     Act= 2.70033
V                                                    MV Pedestal LC 3V Pedestal
4506.10025                                                  -0.000001606261139
V             -0.00052              0.00052          Delta : MV Pedestal LC 3V
Pedestal : 2.70
4506.10026                                 Exp= 3.00037     Act= 3.00036
V                                                    MV Pedestal LC 3V Pedestal
4506.10027                                                  -0.000008341099901
V             -0.00055              0.00055          Delta : MV Pedestal LC 3V
Pedestal : 3.00
4506.10028                                 Exp= 3.30029     Act= 3.30029
V                                                    MV Pedestal LC 3V Pedestal
4506.10029                                                  -0.000000909407986
V             -0.00058              0.00058          Delta : MV Pedestal LC 3V
Pedestal : 3.30
4506.10030                                 Exp= 3.60030     Act= 3.60029
V                                                    MV Pedestal LC 3V Pedestal
4506.10031                                                  -0.000008722657713
V             -0.00061              0.00061          Delta : MV Pedestal LC 3V
Pedestal : 3.60
4506.10032                                 Exp= 4.30039     Act= 4.30039
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V                                                    MV Pedestal LC 5V Pedestal
4506.10033                                                  -0.000004607136542
V             -0.00068              0.00068       Delta : MV Pedestal LC 5V
Pedestal : 4.30
4506.10034                                Exp= 4.60033     Act= 4.60032
V                                                    MV Pedestal LC 5V Pedestal
4506.10035                                                  -0.000002472435542
V             -0.00071              0.00071       Delta : MV Pedestal LC 5V
Pedestal : 4.60
4506.10036                                Exp= 5.00037     Act= 5.00036
V                                                    MV Pedestal LC 5V Pedestal
4506.10037                                                  -0.000010815231673
V             -0.00075              0.00075       Delta : MV Pedestal LC 5V
Pedestal : 5.00
4506.10038                                Exp= 5.30039     Act= 5.30039
V                                                    MV Pedestal LC 5V Pedestal
4506.10039                                                  -0.000000176808833
V             -0.00078              0.00078       Delta : MV Pedestal LC 5V
Pedestal : 5.30
4506.10040                                Exp= 5.70035     Act= 5.70036
V                                                    MV Pedestal LC 5V Pedestal
4506.10041                                                   0.000010478344262
V             -0.00082              0.00082       Delta : MV Pedestal LC 5V
Pedestal : 5.70
4507.11000                                          HC relays verified
DIB HC Relays Check
4507.11001                                                                  0
status                                        0       DIB HC Relays Check
4507.11002                                Exp= -47.48915   Act= -47.49234
mA                                            LC->LC MI PGA 100V Range 500mA
10X
4507.11003                                                  -0.003185794409141
mA            -0.08375               0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : -47.50
4507.11004                                Exp= 0.01143     Act= 0.00983
mA                                            LC->LC MI PGA 100V Range 500mA
10X
4507.11005                                                  -0.001604695113261
mA                -0.06                 0.06       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 0.00
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4507.11006 Exp= 47.51063 Act= 47.50923
mA LC->LC MI PGA 100V Range 500mA
10X
4507.11007 -0.001398384843050
mA -0.08375 0.08375 Delta : LC->LC MI PGA 100V
Range 500mA 10X : 47.50
4507.11008 Exp= -4.73875 Act= -4.73903
mA LC->LC MI PGA 100V Range 500mA
100X
4507.11009 -0.000272642934148
mA -0.062375 0.062375 Delta : LC->LC MI PGA 100V
Range 500mA 100X : -4.75
4507.11010 Exp= 0.01116 Act= 0.01127
mA LC->LC MI PGA 100V Range 500mA
100X
4507.11011 0.000116774850678
mA -0.06 0.06 Delta : LC->LC MI PGA 100V
Range 500mA 100X : 0.00
4507.11012 Exp= 4.75965 Act= 4.75954
mA LC->LC MI PGA 100V Range 500mA
100X
4507.11013 -0.000113797225946
mA -0.062375 0.062375 Delta : LC->LC MI PGA 100V
Range 500mA 100X : 4.75
4507.11014 Exp= -94.99027 Act= -94.99006
mA LC->LC MI PGA 30V Range 1A 10X
4507.11015 0.000210345807758
mA -0.1075 0.1075 Delta : LC->LC MI PGA 30V
Range 1A 10X : -95.00
4507.11016 Exp= 0.00979 Act= 0.01103
mA LC->LC MI PGA 30V Range 1A 10X
4507.11017 0.001242149367657
mA -0.06 0.06 Delta : LC->LC MI PGA 30V
Range 1A 10X : 0.00
4507.11018 Exp= 95.00626 Act= 95.00678
mA LC->LC MI PGA 30V Range 1A 10X
4507.11019 0.000518398412851
mA -0.1075 0.1075 Delta : LC->LC MI PGA 30V
Range 1A 10X : 95.00
4507.11020 Exp= -9.49580 Act= -9.49695

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mA                                                  LC->LC MI PGA 30V Range 1A
100X
4507.11021                                                  -0.001151113271813
mA              -0.06475            0.06475         Delta : LC->LC MI PGA 30V
Range 1A 100X : -9.50
4507.11022                          Exp= 0.01054     Act= 0.00959
mA                                                  LC->LC MI PGA 30V Range 1A
100X
4507.11023                                                  -0.000944724082308
mA                -0.06               0.06          Delta : LC->LC MI PGA 30V
Range 1A 100X : 0.00
4507.11024                          Exp= 9.50516     Act= 9.50459
mA                                                  LC->LC MI PGA 30V Range 1A
100X
4507.11025                                                  -0.000573545854770
mA              -0.06475            0.06475         Delta : LC->LC MI PGA 30V
Range 1A 100X : 9.50
4507.11026                          Exp= -9.49908    Act= -9.49907
mA                                                  LC->LC MI PGA 30V Range 100mA
10X
4507.11027                                                   0.000012830821419
mA              -0.01075            0.01075         Delta : LC->LC MI PGA 30V
Range 100mA 10X : -9.50
4507.11028                          Exp= 0.00054     Act= 0.00048
mA                                                  LC->LC MI PGA 30V Range 100mA
10X
4507.11029                                                  -0.000056187033961
mA                -0.006              0.006         Delta : LC->LC MI PGA 30V
Range 100mA 10X : 0.00
4507.11030                          Exp= 9.50071     Act= 9.50073
mA                                                  LC->LC MI PGA 30V Range 100mA
10X
4507.11031                                                   0.000016250108471
mA              -0.01075            0.01075         Delta : LC->LC MI PGA 30V
Range 100mA 10X : 9.50
4507.11032                          Exp= -949.76678  Act= -949.66391
uA                                                  LC->LC MI PGA 30V Range 100mA
100X
4507.11033                                                   0.102868597905854
uA                -6.475              6.475         Delta : LC->LC MI PGA 30V
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Range 100mA 100X : -950.00
4507.11034                                  Exp= 0.58097     Act= 0.65994
uA                                                  LC->LC MI PGA 30V Range 100mA
100X
4507.11035                                                  0.078968923791864
uA                    -6                     6       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 0.00
4507.11036                                  Exp= 950.54050   Act= 950.57379
uA                                                  LC->LC MI PGA 30V Range 100mA
100X
4507.11037                                                  0.033285819998014
uA                -6.475                 6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 950.00
4507.11038                                  Exp= -949.90435  Act= -949.90875
uA                                                  LC->LC MI PGA 30V Range 10mA
10X
4507.11039                                                 -0.004395411338692
uA                -1.075                 1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : -950.00
4507.11040                                  Exp= 0.05096     Act= 0.06002
uA                                                  LC->LC MI PGA 30V Range 10mA
10X
4507.11041                                                  0.009055622138593
uA                  -0.6                   0.6       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 0.00
4507.11042                                  Exp= 950.05083   Act= 950.06720
uA                                                  LC->LC MI PGA 30V Range 10mA
10X
4507.11043                                                  0.016365120438195
uA                -1.075                 1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 950.00
4507.11044                                  Exp= -189.99284  Act= -189.99188
mA                                                  LC->LC MI PGA 10V Range 2A 10X
4507.11045                                                  0.000957291832520
mA                 -0.22                  0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : -190.00
4507.11046                                  Exp= -0.00384    Act= -0.00396
mA                                                  LC->LC MI PGA 10V Range 2A 10X
4507.11047                                                 -0.000123429166888
mA                -0.125                 0.125       Delta : LC->LC MI PGA 10V
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Range 2A 10X : 0.00
4507.11048                                  Exp= 189.99921   Act= 189.99995
mA                                                LC->LC MI PGA 10V Range 2A 10X
4507.11049                                                  0.000737323222495
mA                -0.22                0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : 190.00
4507.11050                                  Exp= -18.98939   Act= -18.99027
mA                                                LC->LC MI PGA 10V Range 2A
100X
4507.11051                                                 -0.000874143036359
mA              -0.1345              0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : -19.00
4507.11052                                  Exp= 0.00655     Act= 0.00570
mA                                                LC->LC MI PGA 10V Range 2A
100X
4507.11053                                                 -0.000851295125420
mA               -0.125               0.125      Delta : LC->LC MI PGA 10V
Range 2A 100X : 0.00
4507.11054                                  Exp= 19.01529    Act= 19.01493
mA                                                LC->LC MI PGA 10V Range 2A
100X
4507.11055                                                 -0.000360885007183
mA              -0.1345              0.1345       Delta : LC->LC MI PGA 10V
Range 2A 100X : 19.00
4507.11056                                  Exp= -18.99163   Act= -18.99141
mA                                                LC->LC MI PGA 10V Range 200mA
10X
4507.11057                                                  0.000226658524639
mA              -0.0215              0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : -19.00
4507.11058                                  Exp= 0.00815     Act= 0.00813
mA                                                LC->LC MI PGA 10V Range 200mA
10X
4507.11059                                                 -0.000022494819839
mA               -0.012               0.012      Delta : LC->LC MI PGA 10V
Range 200mA 10X : 0.00
4507.11060                                  Exp= 19.00754    Act= 19.00763
mA                                                LC->LC MI PGA 10V Range 200mA
10X
4507.11061                                                  0.000090023328479
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mA              -0.0215              0.0215       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 19.00
4507.11062                                Exp= -1.89185    Act= -1.89176
mA                                                 LC->LC MI PGA 10V Range 200mA
100X
4507.11063                                                 0.000086944813168
mA              -0.01295             0.01295      Delta : LC->LC MI PGA 10V
Range 200mA 100X : -1.90
4507.11064                                Exp= 0.00870     Act= 0.00871
mA                                                 LC->LC MI PGA 10V Range 200mA
100X
4507.11065                                                 0.000011544743067
mA               -0.012               0.012        Delta : LC->LC MI PGA 10V
Range 200mA 100X : 0.00
4507.11066                                Exp= 1.90842     Act= 1.90857
mA                                                 LC->LC MI PGA 10V Range 200mA
100X
4507.11067                                                 0.000146520554715
mA              -0.01295             0.01295      Delta : LC->LC MI PGA 10V
Range 200mA 100X : 1.90
4507.11068                                Exp= -1.89949    Act= -1.89948
mA                                                 LC->LC MI PGA 10V Range 20mA
10X
4507.11069                                                 0.000008702640336
mA              -0.00215             0.00215      Delta : LC->LC MI PGA 10V
Range 20mA 10X : -1.90
4507.11070                                Exp= 0.00047     Act= 0.00050
mA                                                 LC->LC MI PGA 10V Range 20mA
10X
4507.11071                                                 0.000025183968594
mA               -0.0012              0.0012       Delta : LC->LC MI PGA 10V
Range 20mA 10X : 0.00
4507.11072                                Exp= 1.90054     Act= 1.90058
mA                                                 LC->LC MI PGA 10V Range 20mA
10X
4507.11073                                                 0.000041301931213
mA              -0.00215             0.00215      Delta : LC->LC MI PGA 10V
Range 20mA 10X : 1.90
4507.11074                                Exp= -669.32002  Act= -669.40040
mA                                                 HC->HC MI PGA 75V Range 100A
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10X
4507.11075                                                  -0.080387178435558
mA              -18.325              18.325       Delta : HC->HC MI PGA 75V
Range 100A 10X : -665.00
4507.11076                          Exp= -3.96558    Act= -3.96546
mA                                          HC->HC MI PGA 75V Range 100A
10X
4507.11077                                                  0.000126260249721
mA                  -15                  15       Delta : HC->HC MI PGA 75V
Range 100A 10X : 0.00
4507.11078                          Exp= 661.26931   Act= 661.25794
mA                                          HC->HC MI PGA 75V Range 100A
10X
4507.11079                                                  -0.011366927637482
mA              -18.325              18.325       Delta : HC->HC MI PGA 75V
Range 100A 10X : 665.00
4507.11080                          Exp= -669.28250  Act= -669.19892
mA                                          HC->HC MI PGA 75V Range 100A
100X
4507.11081                                                  0.083578586189788
mA              -10.825              10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : -665.00
4507.11082                          Exp= -3.86781    Act= -3.81596
mA                                          HC->HC MI PGA 75V Range 100A
100X
4507.11083                                                  0.051850445931768
mA                -7.5                 7.5       Delta : HC->HC MI PGA 75V
Range 100A 100X : 0.00
4507.11084                          Exp= 661.42362   Act= 661.43651
mA                                          HC->HC MI PGA 75V Range 100A
100X
4507.11085                                                  0.012888784172787
mA              -10.825              10.825       Delta : HC->HC MI PGA 75V
Range 100A 100X : 665.00
4507.11086                          Exp= -665.37130  Act= -665.35960
mA                                          HC->HC MI PGA 75V Range 10A
10X
4507.11087                                                  0.011701724858767
mA               -4.825               4.825       Delta : HC->HC MI PGA 75V
Range 10A 10X : -665.00
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4507.11088 Exp= 0.00315 Act= 0.04408
mA HC->HC MI PGA 75V Range 10A
10X
4507.11089 0.040932244094413
mA -1.5 1.5 Delta : HC->HC MI PGA 75V
Range 10A 10X : 0.00
4507.11090 Exp= 665.34954 Act= 665.31856
mA HC->HC MI PGA 75V Range 10A
10X
4507.11091 -0.030978022223621
mA -4.825 4.825 Delta : HC->HC MI PGA 75V
Range 10A 10X : 665.00
4507.11092 Exp= -665.37130 Act= -665.35960
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11093 0.011701724858767
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : -665.00
4507.11094 Exp= 0.00315 Act= 0.04408
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11095 0.040932244094413
mA -1.5 1.5 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 0.00
4507.11096 Exp= 665.34954 Act= 665.31856
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11097 -0.030978022223621
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 665.00
4507.11098 Exp= -66.42929 Act= -66.42368
mA HC->HC MI PGA 75V Range 10A
100X
4507.11099 0.005614195352550
mA -1.0825 1.0825 Delta : HC->HC MI PGA 75V
Range 10A 100X : -66.50
4507.11100 Exp= -0.02059 Act= -0.00717
mA HC->HC MI PGA 75V Range 10A
100X
4507.11101 0.013420585084725

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mA                -0.75                0.75       Delta : HC->HC MI PGA 75V
Range 10A 100X : 0.00
4507.11102                                 Exp= 66.27114    Act= 66.28097
mA                                                 HC->HC MI PGA 75V Range 10A
100X
4507.11103                                                      0.009828557049019
mA              -1.0825              1.0825       Delta : HC->HC MI PGA 75V
Range 10A 100X : 66.50
4507.11104                                 Exp= -66.42929   Act= -66.42368
mA                                                 HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11105                                                      0.005614195352550
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : -66.50
4507.11106                                 Exp= -0.02059    Act= -0.00717
mA                                                 HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11107                                                      0.013420585084725
mA                -0.75                0.75       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 0.00
4507.11108                                 Exp= 66.27114    Act= 66.28097
mA                                                 HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11109                                                      0.009828557049019
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 66.50
4507.11110                                 Exp= -266.09470  Act= -266.08261
mA                                                 HC->HC MI PGA 75V Range 4A 10X
4507.11111                                                      0.012091824895038
mA              -1.157               1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : -266.00
4507.11112                                 Exp= -0.02662    Act= -0.00795
mA                                                 HC->HC MI PGA 75V Range 4A 10X
4507.11113                                                      0.018666472792254
mA              -0.625               0.625       Delta : HC->HC MI PGA 75V
Range 4A 10X : 0.00
4507.11114                                 Exp= 266.04749   Act= 266.04233
mA                                                 HC->HC MI PGA 75V Range 4A 10X
4507.11115                                                     -0.005166409150036
mA              -1.157               1.157       Delta : HC->HC MI PGA 75V
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Range 4A 10X : 266.00
4507.11116                                  Exp= -26.61606    Act= -26.60291
mA                                                  HC->HC MI PGA 75V Range 4A
100X
4507.11117                                                    0.013147880569651
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : -26.60
4507.11118                                  Exp= -0.01848     Act= -0.00764
mA                                                  HC->HC MI PGA 75V Range 4A
100X
4507.11119                                                    0.010835271954006
mA               -0.312               0.312       Delta : HC->HC MI PGA 75V
Range 4A 100X : 0.00
4507.11120                                  Exp= 26.56036     Act= 26.57200
mA                                                  HC->HC MI PGA 75V Range 4A
100X
4507.11121                                                    0.011635622472081
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 75V
Range 4A 100X : 26.60
4507.11122                                  Exp= -669.21070   Act= -669.00510
mA                                                  HC->HC MI PGA 30V Range 100A
10X
4507.11123                                                    0.205606902571731
mA              -18.325              18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : -665.00
4507.11124                                  Exp= -3.86693     Act= -3.62089
mA                                                  HC->HC MI PGA 30V Range 100A
10X
4507.11125                                                    0.246043231865885
mA                  -15                 15       Delta : HC->HC MI PGA 30V
Range 100A 10X : 0.00
4507.11126                                  Exp= 661.41558    Act= 661.61670
mA                                                  HC->HC MI PGA 30V Range 100A
10X
4507.11127                                                    0.201124131518327
mA              -18.325              18.325       Delta : HC->HC MI PGA 30V
Range 100A 10X : 665.00
4507.11128                                  Exp= -669.06220   Act= -668.92722
mA                                                  HC->HC MI PGA 30V Range 100A
100X
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4507.11129 0.134974610324889
mA -10.825 10.825 Delta : HC->HC MI PGA 30V
Range 100A 100X : -665.00
4507.11130 Exp= -3.69218 Act= -3.53982
mA HC->HC MI PGA 30V Range 100A
100X
4507.11131 0.152355924245477
mA -7.5 7.5 Delta : HC->HC MI PGA 30V
Range 100A 100X : 0.00
4507.11132 Exp= 661.57794 Act= 661.70417
mA HC->HC MI PGA 30V Range 100A
100X
4507.11133 0.126226266263984
mA -10.825 10.825 Delta : HC->HC MI PGA 30V
Range 100A 100X : 665.00
4507.11134 Exp= -665.31974 Act= -665.30114
mA HC->HC MI PGA 30V Range 10A
10X
4507.11135 0.018604100092148
mA -4.825 4.825 Delta : HC->HC MI PGA 30V
Range 10A 10X : -665.00
4507.11136 Exp= 0.01599 Act= 0.09291
mA HC->HC MI PGA 30V Range 10A
10X
4507.11137 0.076912092840842
mA -1.5 1.5 Delta : HC->HC MI PGA 30V
Range 10A 10X : 0.00
4507.11138 Exp= 665.35431 Act= 665.35946
mA HC->HC MI PGA 30V Range 10A
10X
4507.11139 0.005148617080181
mA -4.825 4.825 Delta : HC->HC MI PGA 30V
Range 10A 10X : 665.00
4507.11140 Exp= -665.31974 Act= -665.30114
mA HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11141 0.018604100092148
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : -665.00
4507.11142 Exp= 0.01599 Act= 0.09291

```
mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11143                                                  0.076912092840842
mA                -1.5                  1.5       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 0.00
4507.11144                                  Exp= 665.35431   Act= 665.35946
mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11145                                                  0.005148617080181
mA              -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 665.00
4507.11146                                  Exp= -66.42001   Act= -66.38811
mA                                                  HC->HC MI PGA 30V Range 10A
100X
4507.11147                                                  0.031901232132555
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : -66.50
4507.11148                                  Exp= -0.00308    Act= 0.01972
mA                                                  HC->HC MI PGA 30V Range 10A
100X
4507.11149                                                  0.022799609970179
mA                -0.75                 0.75       Delta : HC->HC MI PGA 30V
Range 10A 100X : 0.00
4507.11150                                  Exp= 66.36339    Act= 66.37786
mA                                                  HC->HC MI PGA 30V Range 10A
100X
4507.11151                                                  0.014463035600826
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : 66.50
4507.11152                                  Exp= -66.42001   Act= -66.38811
mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11153                                                  0.031901232132555
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : -66.50
4507.11154                                  Exp= -0.00308    Act= 0.01972
mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11155                                                  0.022799609970179
mA                -0.75                 0.75       Delta : HC->HC MI With booster
```

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improved cal check 30V Range 10A 100X : 0.00
4507.11156                                  Exp= 66.36339    Act= 66.37786
mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11157                                                   0.014463035600826
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 66.50
4507.11158                                  Exp= -266.08968  Act= -266.07144
mA                                                  HC->HC MI PGA 30V Range 4A 10X
4507.11159                                                   0.018239707689133
mA               -1.157               1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : -266.00
4507.11160                                  Exp= -0.02067    Act= -0.00664
mA                                                  HC->HC MI PGA 30V Range 4A 10X
4507.11161                                                   0.014039021299105
mA               -0.625               0.625       Delta : HC->HC MI PGA 30V
Range 4A 10X : 0.00
4507.11162                                  Exp= 266.01779   Act= 266.00455
mA                                                  HC->HC MI PGA 30V Range 4A 10X
4507.11163                                                  -0.013247544987735
mA               -1.157               1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : 266.00
4507.11164                                  Exp= -26.60944   Act= -26.59496
mA                                                  HC->HC MI PGA 30V Range 4A
100X
4507.11165                                                   0.014475621714666
mA             -0.3652              0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : -26.60
4507.11166                                  Exp= -0.01310    Act= -0.00060
mA                                                  HC->HC MI PGA 30V Range 4A
100X
4507.11167                                                   0.012496083597493
mA               -0.312               0.312       Delta : HC->HC MI PGA 30V
Range 4A 100X : 0.00
4507.11168                                  Exp= 26.56710    Act= 26.57846
mA                                                  HC->HC MI PGA 30V Range 4A
100X
4507.11169                                                   0.011360999458152
mA             -0.3652              0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : 26.60
```

4507.11170 Exp= -669.05621 Act= -668.94394
mA HC->HC MI PGA 10V Range 100A
10X
4507.11171 0.112266787099315
mA -18.325 18.325 Delta : HC->HC MI PGA 10V
Range 100A 10X : -665.00
4507.11172 Exp= -3.70752 Act= -3.62799
mA HC->HC MI PGA 10V Range 100A
10X
4507.11173 0.079532664846544
mA -15 15 Delta : HC->HC MI PGA 10V
Range 100A 10X : 0.00
4507.11174 Exp= 661.52662 Act= 661.51507
mA HC->HC MI PGA 10V Range 100A
10X
4507.11175 -0.011549717528624
mA -18.325 18.325 Delta : HC->HC MI PGA 10V
Range 100A 10X : 665.00
4507.11176 Exp= -669.03800 Act= -668.87065
mA HC->HC MI PGA 10V Range 100A
100X
4507.11177 0.167346619104137
mA -10.825 10.825 Delta : HC->HC MI PGA 10V
Range 100A 100X : -665.00
4507.11178 Exp= -3.77810 Act= -3.48892
mA HC->HC MI PGA 10V Range 100A
100X
4507.11179 0.289176679504609
mA -7.5 7.5 Delta : HC->HC MI PGA 10V
Range 100A 100X : 0.00
4507.11180 Exp= 661.52558 Act= 661.69786
mA HC->HC MI PGA 10V Range 100A
100X
4507.11181 0.172286707672583
mA -10.825 10.825 Delta : HC->HC MI PGA 10V
Range 100A 100X : 665.00
4507.11182 Exp= -664.70480 Act= -664.69155
mA HC->HC MI PGA 10V Range 10A
10X
4507.11183 0.013248476154331

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mA                -4.825                4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : -665.00
4507.11184                                  Exp= -0.04192    Act= 0.06867
mA                                                HC->HC MI PGA 10V Range 10A
10X
4507.11185                                                  0.110598536844717
mA                  -1.5                  1.5       Delta : HC->HC MI PGA 10V
Range 10A 10X : 0.00
4507.11186                                  Exp= 664.91935   Act= 664.86889
mA                                                HC->HC MI PGA 10V Range 10A
10X
4507.11187                                                 -0.050460594574020
mA                -4.825                4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : 665.00
4507.11188                                  Exp= -664.70480  Act= -664.69155
mA                                                HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11189                                                  0.013248476154331
mA              -2.6305               2.6305      Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : -665.00
4507.11190                                  Exp= -0.04192    Act= 0.06867
mA                                                HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11191                                                  0.110598536844717
mA                  -1.5                  1.5       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 0.00
4507.11192                                  Exp= 664.91935   Act= 664.86889
mA                                                HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11193                                                 -0.050460594574020
mA              -2.6305               2.6305      Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 665.00
4507.11194                                  Exp= -66.44941   Act= -66.41854
mA                                                HC->HC MI PGA 10V Range 10A
100X
4507.11195                                                  0.030868284373895
mA              -1.0825               1.0825      Delta : HC->HC MI PGA 10V
Range 10A 100X : -66.50
4507.11196                                  Exp= -0.05087    Act= -0.00992
mA                                                HC->HC MI PGA 10V Range 10A
```

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100X
4507.11197                                                    0.040953642900368
mA                -0.75                  0.75       Delta : HC->HC MI PGA 10V
Range 10A 100X : 0.00
4507.11198                                 Exp= 66.39684    Act= 66.43216
mA                                                 HC->HC MI PGA 10V Range 10A
100X
4507.11199                                                    0.035319868436687
mA              -1.0825                1.0825       Delta : HC->HC MI PGA 10V
Range 10A 100X : 66.50
4507.11200                                 Exp= -66.44941   Act= -66.41854
mA                                                 HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11201                                                    0.030868284373895
mA             -0.86305               0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : -66.50
4507.11202                                 Exp= -0.05087    Act= -0.00992
mA                                                 HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11203                                                    0.040953642900368
mA                -0.75                  0.75       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 0.00
4507.11204                                 Exp= 66.39684    Act= 66.43216
mA                                                 HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11205                                                    0.035319868436687
mA             -0.86305               0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 66.50
4507.11206                                 Exp= -266.02359  Act= -266.00232
mA                                                 HC->HC MI PGA 10V Range 4A 10X
4507.11207                                                    0.021268146817931
mA               -1.157                1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : -266.00
4507.11208                                 Exp= -0.03966    Act= -0.01106
mA                                                 HC->HC MI PGA 10V Range 4A 10X
4507.11209                                                    0.028596985989090
mA               -0.625                0.625       Delta : HC->HC MI PGA 10V
Range 4A 10X : 0.00
4507.11210                                 Exp= 265.95589   Act= 265.96406
mA                                                 HC->HC MI PGA 10V Range 4A 10X
```

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4507.11211                                                    0.008168924677591
mA              -1.157              1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : 266.00
4507.11212                          Exp= -26.60093   Act= -26.58405
mA                                          HC->HC MI PGA 10V Range 4A
100X
4507.11213                                                    0.016875764085018
mA              -0.3652             0.3652      Delta : HC->HC MI PGA 10V
Range 4A 100X : -26.60
4507.11214                          Exp= -0.02691    Act= -0.01138
mA                                          HC->HC MI PGA 10V Range 4A
100X
4507.11215                                                    0.015523162258720
mA               -0.312             0.312       Delta : HC->HC MI PGA 10V
Range 4A 100X : 0.00
4507.11216                          Exp= 26.56745    Act= 26.57797
mA                                          HC->HC MI PGA 10V Range 4A
100X
4507.11217                                                    0.010524047729621
mA              -0.3652             0.3652      Delta : HC->HC MI PGA 10V
Range 4A 100X : 26.60
4508.10000                                        HC relays verified
DIB HC Relays Check
4508.10001                                                              0
status                                  0       DIB HC Relays Check
4508.10002                                  Measure the HV 20V divider
External HV Source Calibration Factors
4508.10003                                                              0
status                                  0       External HV Source
Calibration Factors
4508.10004                                   Measure the HV 200V divider
External HV Source Calibration Factors
4508.10005                                                              0
status                                  0       External HV Source
Calibration Factors
4508.10006                                        Measure 2000V path
External HV Source Calibration Factors
4508.10007                                                              0
status                                  0       External HV Source
Calibration Factors
```

```
4508.10008                                                    Measure ATTEN_2
External HV Source Calibration Factors
4508.10009                                                                  0
status                                          0       External HV Source
Calibration Factors
4508.10010                                       HV cal factors to/from file
External HV Source Calibration Factors
4508.10011                                                                  0
status                                          0       External HV Source
Calibration Factors
4508.10012                                       External HV Source Cal Data
External HV Source Calibration Factors
4508.10013                                                                  0
status                                          0       External HV Source
Calibration Factors
4508.10014                                                            -0.00130
-0.0016294          -0.00097761       External HV Source 20V Range slope
4508.10015                                                            -0.00125
-0.05                 0.05       External HV Source 20V Range offset
4508.10016                                                            -0.01406
-0.017924            -0.010754       External HV Source 200V Range slope
4508.10017                                                            -0.01349
-0.5                  0.5       External HV Source 200V Range offset
4508.10018                                                            -0.12212
-0.15259            -0.091554       External HV Source 2000V Range slope
4508.10019                                                            -0.11667
-5                    5       External HV Source 2000V Range offset
4508.10020                                                             0.48950
Atten_2 value
4508.10021                                Exp= -9.49894    Act= -9.49897
V                                                Volt Meter 10V Range 1X
4508.10022                                                -0.000029663226826
V             -0.00595              0.00595       Delta : Volt Meter 10V Range
1X : -9.50
4508.10023                                Exp= 0.00105     Act= 0.00103
V                                                Volt Meter 10V Range 1X
4508.10024                                                -0.000010485127223
V              -0.0012               0.0012       Delta : Volt Meter 10V Range
1X : 0.00
4508.10025                                Exp= 9.50109     Act= 9.50112
```

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V                                                    Volt Meter 10V Range 1X
4508.10026                                                  0.000030189063809
V             -0.00595              0.00595          Delta : Volt Meter 10V Range
1X : 9.50
4508.10027                                  Exp= -28.49884    Act= -28.49900
V                                                    Volt Meter 30V Range 1X
4508.10028                                                 -0.000155828170335
V             -0.01825              0.01825          Delta : Volt Meter 30V Range
1X : -28.50
4508.10029                                  Exp= 0.00112      Act= 0.00108
V                                                    Volt Meter 30V Range 1X
4508.10030                                                 -0.000035361656122
V               -0.004                0.004          Delta : Volt Meter 30V Range
1X : 0.00
4508.10031                                  Exp= 28.50118     Act= 28.50126
V                                                    Volt Meter 30V Range 1X
4508.10032                                                  0.000074776801871
V             -0.01825              0.01825          Delta : Volt Meter 30V Range
1X : 28.50
4508.10033                                  Exp= -94.99831    Act= -94.99861
V                                                    Volt Meter 100V Range 1X
4508.10034                                                 -0.000303291011861
V               -0.06                 0.06          Delta : Volt Meter 100V Range
1X : -95.00
4508.10035                                  Exp= 0.00112      Act= 0.00093
V                                                    Volt Meter 100V Range 1X
4508.10036                                                 -0.000194750950629
V              -0.0125               0.0125          Delta : Volt Meter 100V Range
1X : 0.00
4508.10037                                  Exp= 95.00066     Act= 95.00113
V                                                    Volt Meter 100V Range 1X
4508.10038                                                  0.000476372022320
V               -0.06                 0.06          Delta : Volt Meter 100V Range
1X : 95.00
4508.10039                                  Exp= -0.94892     Act= -0.94894
V                                                    Volt Meter 10V Range 10X
4508.10040                                                 -0.000024397125978
V             -0.001075             0.001075          Delta : Volt Meter 10V Range
10X : -0.95
4508.10041                                  Exp= 0.00105      Act= 0.00103
```

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V                                                    Volt Meter 10V Range 10X
4508.10042                                                  -0.000015394907169
V              -0.0006                0.0006         Delta : Volt Meter 10V Range
10X : 0.00
4508.10043                                  Exp= 0.95108     Act= 0.95107
V                                                    Volt Meter 10V Range 10X
4508.10044                                                  -0.000012099132674
V             -0.001075              0.001075         Delta : Volt Meter 10V Range
10X : 0.95
4508.10045                                  Exp= -0.09388    Act= -0.09390
V                                                    Volt Meter 10V Range 100X
4508.10046                                                  -0.000014981349196
V            -0.0003475             0.0003475         Delta : Volt Meter 10V Range
100X : -0.10
4508.10047                                  Exp= 0.00105     Act= 0.00103
V                                                    Volt Meter 10V Range 100X
4508.10048                                                  -0.000016701517989
V              -0.0003                0.0003         Delta : Volt Meter 10V Range
100X : 0.00
4508.10049                                  Exp= 0.09605     Act= 0.09603
V                                                    Volt Meter 10V Range 100X
4508.10050                                                  -0.000018260971074
V            -0.0003475             0.0003475         Delta : Volt Meter 10V Range
100X : 0.10
4508.10051                                  Exp= -2.84891    Act= -2.84896
V                                                    Volt Meter 30V Range 10X
4508.10052                                                  -0.000056171405950
V             -0.003425              0.003425         Delta : Volt Meter 30V Range
10X : -2.85
4508.10053                                  Exp= 0.00117     Act= 0.00112
V                                                    Volt Meter 30V Range 10X
4508.10054                                                  -0.000045721839005
V               -0.002                 0.002         Delta : Volt Meter 30V Range
10X : 0.00
4508.10055                                  Exp= 2.85096     Act= 2.85095
V                                                    Volt Meter 30V Range 10X
4508.10056                                                  -0.000009354365501
V             -0.003425              0.003425         Delta : Volt Meter 30V Range
10X : 2.85
4508.10057                                  Exp= -0.28390    Act= -0.28393
```

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V                                                    Volt Meter 30V Range 100X
4508.10058                                                  -0.000037057493751
V           -0.0011425            0.0011425       Delta : Volt Meter 30V Range
100X : -0.29
4508.10059                              Exp= 0.00114     Act= 0.00112
V                                                    Volt Meter 30V Range 100X
4508.10060                                                  -0.000026710650127
V               -0.001                0.001       Delta : Volt Meter 30V Range
100X : 0.00
4508.10061                              Exp= 0.28616     Act= 0.28615
V                                                    Volt Meter 30V Range 100X
4508.10062                                                  -0.000006299296056
V           -0.0011425            0.0011425       Delta : Volt Meter 30V Range
100X : 0.29
4508.10063                              Exp= -9.49859    Act= -9.49874
V                                                    Volt Meter 100V Range 10X
4508.10064                                                  -0.000149056681442
V             -0.01075              0.01075       Delta : Volt Meter 100V Range
10X : -9.50
4508.10065                              Exp= 0.00106     Act= 0.00095
V                                                    Volt Meter 100V Range 10X
4508.10066                                                  -0.000110411734597
V               -0.006                0.006       Delta : Volt Meter 100V Range
10X : 0.00
4508.10067                              Exp= 9.50088     Act= 9.50085
V                                                    Volt Meter 100V Range 10X
4508.10068                                                  -0.000031623262732
V             -0.01075              0.01075       Delta : Volt Meter 100V Range
10X : 9.50
4508.10069                              Exp= -0.94877    Act= -0.94888
V                                                    Volt Meter 100V Range 100X
4508.10070                                                  -0.000107099056931
V           -0.003475             0.003475        Delta : Volt Meter 100V Range
100X : -0.95
4508.10071                              Exp= 0.00108     Act= 0.00096
V                                                    Volt Meter 100V Range 100X
4508.10072                                                  -0.000123647766303
V               -0.003                0.003       Delta : Volt Meter 100V Range
100X : 0.00
4508.10073                              Exp= 0.95104     Act= 0.95101
```

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V                                                    Volt Meter 100V Range 100X
4508.10074                                                  -0.000033568803475
V            -0.003475             0.003475       Delta : Volt Meter 100V Range
100X : 0.95
4509.10000                                                                41.8  deg
C                                                    MotherBoard Cal Temperature
4509.10001                                                                41.4  deg
C                                                    MotherBoard Chk Temperature
4509.10002   MotherBoard temperature check Exp = 41.832291, Act = 41.365540
MotherBoard Chk Temperature
4509.10003                                                                   0
status                                          0       MotherBoard Chk
Temperature
4509.10004                                                                46.1  deg
C                                                    Control Board Cal Temperature
4509.10005                                                                45.7  deg
C                                                    Control Board Chk Temperature
4509.10006 Control Board temperature check Exp = 46.123592, Act = 45.706427
Control Board Chk Temperature
4509.10007                                                                   0
status                                          0       Control Board Chk
Temperature
Datalog for: Check HPU-108          REV 43, Site #0, Bin #1
  TEST#                                                                 RESULT
UNITS                LOWER                UPPER ALARM TEST NAME
---------- ------------------------------------------------------------ -----
- -------------------- -------------------- ----- ------------------------------
-----------------------------------------------------
    4500.0                                                                   0
0      If this failed there are Fatal Errors during Startup, Check System
Monitor
 4500.1000                                                 ETS1UOJUM00038
COMPUTER INFORMATION - Name
 4500.1001                                                    1000.000000
V                                                    DIAG/CAL INFORMATION - Maximum
Voltage
 4500.1101                                                                0
0       PLD REVISION INFORMATION
 4500.1103                                                                0
0       PLD REVISION INFORMATION
```

```
 4500.1105                                                          3
3       PLD REVISION INFORMATION
 4500.1106                                    DATA[0]={0, 0, 1, 0, 5}
PLD REVISION INFORMATION
 4500.1107                                    DATA[1]={0, 1, 1, 0, 8}
PLD REVISION INFORMATION
 4500.1108                                  DATA[2]={0, 0, 1, 0, 1990}
PLD REVISION INFORMATION
4501.10000                                                  -29.99589
V              -30.027             -29.973       LC->LC 16 Bit DRV 30V Range
4501.10001                                          0.004107500000000
V               -0.027               0.027       Delta : LC->LC 16 Bit DRV 30V
Range : -30.00
4501.10002                                                  -25.99921
V              -26.025             -25.975       LC->LC 16 Bit DRV 30V Range
4501.10003                                          0.000786800000000
V               -0.025               0.025       Delta : LC->LC 16 Bit DRV 30V
Range : -26.00
4501.10004                                                  -22.00153
V              -22.023             -21.977       LC->LC 16 Bit DRV 30V Range
4501.10005                                         -0.001532600000001
V               -0.023               0.023       Delta : LC->LC 16 Bit DRV 30V
Range : -22.00
4501.10006                                                  -18.00255
V              -18.021             -17.979       LC->LC 16 Bit DRV 30V Range
4501.10007                                         -0.002547300000000
V               -0.021               0.021       Delta : LC->LC 16 Bit DRV 30V
Range : -18.00
4501.10008                                                  -10.00474
V              -10.017              -9.983       LC->LC 16 Bit DRV 30V Range
4501.10009                                         -0.004742600000000
V               -0.017               0.017       Delta : LC->LC 16 Bit DRV 30V
Range : -10.00
4501.10010                                                   -0.00448
V               -0.012               0.012       LC->LC 16 Bit DRV 30V Range
4501.10011                                         -0.004477064820000
V               -0.012               0.012       Delta : LC->LC 16 Bit DRV 30V
Range : 0.00
4501.10012                                                   9.99654
V                9.983              10.017       LC->LC 16 Bit DRV 30V Range
```

4501.10013 -0.003463750000000
V -0.017 0.017 Delta : LC->LC 16 Bit DRV 30V Range : 10.00
4501.10014 17.99916
V 17.979 18.021 LC->LC 16 Bit DRV 30V Range
4501.10015 -0.000841099999999
V -0.021 0.021 Delta : LC->LC 16 Bit DRV 30V Range : 18.00
4501.10016 22.00062
V 21.977 22.023 LC->LC 16 Bit DRV 30V Range
4501.10017 0.000618899999999
V -0.023 0.023 Delta : LC->LC 16 Bit DRV 30V Range : 22.00
4501.10018 26.00253
V 25.975 26.025 LC->LC 16 Bit DRV 30V Range
4501.10019 0.002530100000001
V -0.025 0.025 Delta : LC->LC 16 Bit DRV 30V Range : 26.00
4501.10020 30.00288
V 29.973 30.027 LC->LC 16 Bit DRV 30V Range
4501.10021 0.002876300000001
V -0.027 0.027 Delta : LC->LC 16 Bit DRV 30V Range : 30.00
4501.10022 -9.99873
V -10.013 -9.987 LC->LC 16 Bit DRV 10V Range
4501.10023 0.001266960000001
V -0.013 0.013 Delta : LC->LC 16 Bit DRV 10V Range : -10.00
4501.10024 -7.99980
V -8.012 -7.988 LC->LC 16 Bit DRV 10V Range
4501.10025 0.000197890000000
V -0.012 0.012 Delta : LC->LC 16 Bit DRV 10V Range : -8.00
4501.10026 -6.00078
V -6.011 -5.989 LC->LC 16 Bit DRV 10V Range
4501.10027 -0.000778440000000
V -0.011 0.011 Delta : LC->LC 16 Bit DRV 10V Range : -6.00
4501.10028 -4.00112
V -4.01 -3.99 LC->LC 16 Bit DRV 10V Range

4501.10029 -0.001119140000000
V -0.01 0.01 Delta : LC->LC 16 Bit DRV 10V Range : -4.00
4501.10030 -2.00103
V -2.009 -1.991 LC->LC 16 Bit DRV 10V Range
4501.10031 -0.001033900000000
V -0.009 0.009 Delta : LC->LC 16 Bit DRV 10V Range : -2.00
4501.10032 -0.00112
V -0.008 0.008 LC->LC 16 Bit DRV 10V Range
4501.10033 -0.001122341840000
V -0.008 0.008 Delta : LC->LC 16 Bit DRV 10V Range : 0.00
4501.10034 1.99936
V 1.991 2.009 LC->LC 16 Bit DRV 10V Range
4501.10035 -0.000644560000000
V -0.009 0.009 Delta : LC->LC 16 Bit DRV 10V Range : 2.00
4501.10036 3.99949
V 3.99 4.01 LC->LC 16 Bit DRV 10V Range
4501.10037 -0.000511410000000
V -0.01 0.01 Delta : LC->LC 16 Bit DRV 10V Range : 4.00
4501.10038 6.00005
V 5.989 6.011 LC->LC 16 Bit DRV 10V Range
4501.10039 0.000053170000000
V -0.011 0.011 Delta : LC->LC 16 Bit DRV 10V Range : 6.00
4501.10040 8.00074
V 7.988 8.012 LC->LC 16 Bit DRV 10V Range
4501.10041 0.000742910000000
V -0.012 0.012 Delta : LC->LC 16 Bit DRV 10V Range : 8.00
4501.10042 10.00115
V 9.987 10.013 LC->LC 16 Bit DRV 10V Range
4501.10043 0.001151100000000
V -0.013 0.013 Delta : LC->LC 16 Bit DRV 10V Range : 10.00
4502.10000 -29.99975
V -30.014 -29.987 LC->LC 18 Bit DRV 30V Range

4502.10001			0.000247999999999
V	-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V Range : -30.00
4502.10002			-15.00044
V	-15.01	-14.99	LC->LC 18 Bit DRV 30V Range
4502.10003			-0.000441100000000
V	-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V Range : -15.00
4502.10004			-0.00008
V	-0.006	0.006	LC->LC 18 Bit DRV 30V Range
4502.10005			-0.000079413326600
V	-0.006	0.006	Delta : LC->LC 18 Bit DRV 30V Range : 0.00
4502.10006			15.00056
V	14.99	15.01	LC->LC 18 Bit DRV 30V Range
4502.10007			0.000564600000001
V	-0.00975	0.00975	Delta : LC->LC 18 Bit DRV 30V Range : 15.00
4502.10008			29.99994
V	29.987	30.014	LC->LC 18 Bit DRV 30V Range
4502.10009			-0.000055300000000
V	-0.0135	0.0135	Delta : LC->LC 18 Bit DRV 30V Range : 30.00
4502.10010			-9.99989
V	-10.007	-9.9935	LC->LC 18 Bit DRV 10V Range
4502.10011			0.000108239999999
V	-0.0065	0.0065	Delta : LC->LC 18 Bit DRV 10V Range : -10.00
4502.10012			-5.00014
V	-5.0053	-4.9948	LC->LC 18 Bit DRV 10V Range
4502.10013			-0.000136610000000
V	-0.00525	0.00525	Delta : LC->LC 18 Bit DRV 10V Range : -5.00
4502.10014			0.00001
V	-0.004	0.004	LC->LC 18 Bit DRV 10V Range
4502.10015			0.000007969815440
V	-0.004	0.004	Delta : LC->LC 18 Bit DRV 10V Range : 0.00
4502.10016			5.00013
V	4.9948	5.0053	LC->LC 18 Bit DRV 10V Range

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4502.10017                                          0.000130890000000
V              -0.00525          0.00525       Delta : LC->LC 18 Bit DRV 10V
Range : 5.00
4502.10018                                                    9.99985
V               9.9935           10.007        LC->LC 18 Bit DRV 10V Range
4502.10019                                        -0.000151160000000
V              -0.0065           0.0065        Delta : LC->LC 18 Bit DRV 10V
Range : 10.00
4503.10000                                                  -99.99950
V              -100.04          -99.963        LC->LC V/I Mode FV 100V Range
4503.10001                                         0.000495900000004
V              -0.0375           0.0375        Delta : LC->LC V/I Mode FV 100V
Range : -100.00
4503.10002                          Exp= -99.99950    Act= -100.00020
V                                               LC->LC V/I Mode MV 100V Range
4503.10003                                        -0.000695232571843
V              -0.0375           0.0375        Delta : LC->LC V/I Mode MV 100V
Range : -100.00
4503.10004                                                  -50.00030
V              -50.025          -49.975        LC->LC V/I Mode FV 100V Range
4503.10005                                        -0.000295600000001
V               -0.025            0.025        Delta : LC->LC V/I Mode FV 100V
Range : -50.00
4503.10006                          Exp= -50.00030    Act= -49.99992
V                                               LC->LC V/I Mode MV 100V Range
4503.10007                                         0.000375284108507
V               -0.025            0.025        Delta : LC->LC V/I Mode MV 100V
Range : -50.00
4503.10008                                                    0.00014
V              -0.0125           0.0125        LC->LC V/I Mode FV 100V Range
4503.10009                                         0.000135556700000
V              -0.0125           0.0125        Delta : LC->LC V/I Mode FV 100V
Range : 0.00
4503.10010                          Exp= 0.00014      Act= 0.00058
V                                               LC->LC V/I Mode MV 100V Range
4503.10011                                         0.000439556589975
V              -0.0125           0.0125        Delta : LC->LC V/I Mode MV 100V
Range : 0.00
4503.10012                                                   50.00065
V               49.975           50.025        LC->LC V/I Mode FV 100V Range
```

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4503.10013                                          0.000654200000000
V              -0.025          0.025       Delta : LC->LC V/I Mode FV 100V
Range : 50.00
4503.10014                  Exp= 50.00065    Act= 50.00064
V                                       LC->LC V/I Mode MV 100V Range
4503.10015                                         -0.000016407483159
V              -0.025          0.025       Delta : LC->LC V/I Mode MV 100V
Range : 50.00
4503.10016                                                  99.99989
V               99.963         100.04      LC->LC V/I Mode FV 100V Range
4503.10017                                         -0.000106799999998
V              -0.0375         0.0375      Delta : LC->LC V/I Mode FV 100V
Range : 100.00
4503.10018                  Exp= 99.99989    Act= 100.00011
V                                       LC->LC V/I Mode MV 100V Range
4503.10019                                          0.000212236518152
V              -0.0375         0.0375      Delta : LC->LC V/I Mode MV 100V
Range : 100.00
4503.10020                                                 -29.99973
V               -30.01         -29.99      LC->LC V/I Mode FV 30V Range
4503.10021                                          0.000266100000001
V                -0.01           0.01      Delta : LC->LC V/I Mode FV 30V
Range : -30.00
4503.10022                  Exp= -29.99973   Act= -30.00002
V                                       LC->LC V/I Mode MV 30V Range
4503.10023                                         -0.000285085343219
V                -0.01           0.01      Delta : LC->LC V/I Mode MV 30V
Range : -30.00
4503.10024                                                 -14.99993
V              -15.006         -14.994      LC->LC V/I Mode FV 30V Range
4503.10025                                          0.000072500000000
V             -0.00625        0.00625       Delta : LC->LC V/I Mode FV 30V
Range : -15.00
4503.10026                  Exp= -14.99993   Act= -14.99998
V                                       LC->LC V/I Mode MV 30V Range
4503.10027                                         -0.000052702369199
V             -0.00625        0.00625       Delta : LC->LC V/I Mode MV 30V
Range : -15.00
4503.10028                                                   0.00019
V              -0.0025         0.0025       LC->LC V/I Mode FV 30V Range
```

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4503.10029                                          0.000185420882000
V              -0.0025          0.0025       Delta : LC->LC V/I Mode FV 30V
Range : 0.00
4503.10030                    Exp= 0.00019     Act= 0.00024
V                                          LC->LC V/I Mode MV 30V Range
4503.10031                                          0.000058193833732
V              -0.0025          0.0025       Delta : LC->LC V/I Mode MV 30V
Range : 0.00
4503.10032                                                    15.00004
V               14.994          15.006       LC->LC V/I Mode FV 30V Range
4503.10033                                          0.000044800000000
V             -0.00625         0.00625       Delta : LC->LC V/I Mode FV 30V
Range : 15.00
4503.10034                    Exp= 15.00004    Act= 15.00006
V                                          LC->LC V/I Mode MV 30V Range
4503.10035                                          0.000013002064543
V             -0.00625         0.00625       Delta : LC->LC V/I Mode MV 30V
Range : 15.00
4503.10036                                                    30.00000
V               29.99           30.01        LC->LC V/I Mode FV 30V Range
4503.10037                                         -0.000002899999998
V               -0.01            0.01        Delta : LC->LC V/I Mode FV 30V
Range : 30.00
4503.10038                    Exp= 30.00000    Act= 29.99996
V                                          LC->LC V/I Mode MV 30V Range
4503.10039                                         -0.000032687902113
V               -0.01            0.01        Delta : LC->LC V/I Mode MV 30V
Range : 30.00
4503.10040                                                   -9.99996
V              -10.003          -9.9967       LC->LC V/I Mode FV 10V Range
4503.10041                                          0.000043870000001
V              -0.0033          0.0033       Delta : LC->LC V/I Mode FV 10V
Range : -10.00
4503.10042                    Exp= -9.99996    Act= -10.00006
V                                          LC->LC V/I Mode MV 10V Range
4503.10043                                         -0.000102397528581
V              -0.0033          0.0033       Delta : LC->LC V/I Mode MV 10V
Range : -10.00
4503.10044                                                   -5.00000
V              -5.0021          -4.998       LC->LC V/I Mode FV 10V Range
```

4503.10045 -0.000001430000000
V -0.00205 0.00205 Delta : LC->LC V/I Mode FV 10V Range : -5.00
4503.10046 Exp= -5.00000 Act= -5.00001
V LC->LC V/I Mode MV 10V Range
4503.10047 -0.000003868635874
V -0.00205 0.00205 Delta : LC->LC V/I Mode MV 10V Range : -5.00
4503.10048 0.00006
V -0.0008 0.0008 LC->LC V/I Mode FV 10V Range
4503.10049 0.000059884307100
V -0.0008 0.0008 Delta : LC->LC V/I Mode FV 10V Range : 0.00
4503.10050 Exp= 0.00006 Act= 0.00009
V LC->LC V/I Mode MV 10V Range
4503.10051 0.000030847028048
V -0.0008 0.0008 Delta : LC->LC V/I Mode MV 10V Range : 0.00
4503.10052 5.00004
V 4.998 5.0021 LC->LC V/I Mode FV 10V Range
4503.10053 0.000035050000000
V -0.00205 0.00205 Delta : LC->LC V/I Mode FV 10V Range : 5.00
4503.10054 Exp= 5.00004 Act= 5.00006
V LC->LC V/I Mode MV 10V Range
4503.10055 0.000020691896282
V -0.00205 0.00205 Delta : LC->LC V/I Mode MV 10V Range : 5.00
4503.10056 9.99996
V 9.9967 10.003 LC->LC V/I Mode FV 10V Range
4503.10057 -0.000038150000000
V -0.0033 0.0033 Delta : LC->LC V/I Mode FV 10V Range : 10.00
4503.10058 Exp= 9.99996 Act= 9.99993
V LC->LC V/I Mode MV 10V Range
4503.10059 -0.000033128152644
V -0.0033 0.0033 Delta : LC->LC V/I Mode MV 10V Range : 10.00
4503.10060 -74.99942
V -75.031 -74.969 HC->HC V/I Mode FV 75V Range

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4503.10061                                          0.000579799999997
V              -0.03125              0.03125        Delta : HC->HC V/I Mode FV 75V
Range : -75.00
4503.10062                                Exp= -74.99942    Act= -75.00038
V                                                  HC->HC V/I Mode MV 75V Range
4503.10063                                          -0.000964389827629
V              -0.03125              0.03125        Delta : HC->HC V/I Mode MV 75V
Range : -75.00
4503.10064                                                        -37.49995
V               -37.522               -37.478       HC->HC V/I Mode FV 75V Range
4503.10065                                           0.000047700000003
V             -0.021875             0.021875        Delta : HC->HC V/I Mode FV 75V
Range : -37.50
4503.10066                                Exp= -37.49995    Act= -37.50044
V                                                  HC->HC V/I Mode MV 75V Range
4503.10067                                          -0.000486225330341
V             -0.021875             0.021875        Delta : HC->HC V/I Mode MV 75V
Range : -37.50
4503.10068                                                         0.00019
V               -0.0125                0.0125       HC->HC V/I Mode FV 75V Range
4503.10069                                           0.000192438813000
V               -0.0125                0.0125       Delta : HC->HC V/I Mode FV 75V
Range : 0.00
4503.10070                                Exp= 0.00019      Act= 0.00016
V                                                  HC->HC V/I Mode MV 75V Range
4503.10071                                          -0.000029623667774
V               -0.0125                0.0125       Delta : HC->HC V/I Mode MV 75V
Range : 0.00
4503.10072                                                        37.50037
V                37.478                 37.522       HC->HC V/I Mode FV 75V Range
4503.10073                                           0.000373799999998
V             -0.021875             0.021875        Delta : HC->HC V/I Mode FV 75V
Range : 37.50
4503.10074                                Exp= 37.50037     Act= 37.49989
V                                                  HC->HC V/I Mode MV 75V Range
4503.10075                                          -0.000479902133165
V             -0.021875             0.021875        Delta : HC->HC V/I Mode MV 75V
Range : 37.50
4503.10076                                                        74.99980
V                74.969                 75.031       HC->HC V/I Mode FV 75V Range
```

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4503.10077                                                  -0.000198400000002
V              -0.03125              0.03125       Delta : HC->HC V/I Mode FV 75V
Range : 75.00
4503.10078                          Exp= 74.99980     Act= 75.00028
V                                                 HC->HC V/I Mode MV 75V Range
4503.10079                                                  0.000478651212376
V              -0.03125              0.03125       Delta : HC->HC V/I Mode MV 75V
Range : 75.00
4503.10080                                                        -29.99979
V               -30.01                -29.99       HC->HC V/I Mode FV 30V Range
4503.10081                                                  0.000208900000001
V                -0.01                  0.01       Delta : HC->HC V/I Mode FV 30V
Range : -30.00
4503.10082                          Exp= -29.99979    Act= -29.99998
V                                                 HC->HC V/I Mode MV 30V Range
4503.10083                                                 -0.000189412764144
V                -0.01                  0.01       Delta : HC->HC V/I Mode MV 30V
Range : -30.00
4503.10084                                                        -14.99996
V               -15.006               -14.994       HC->HC V/I Mode FV 30V Range
4503.10085                                                  0.000042900000000
V              -0.00625              0.00625       Delta : HC->HC V/I Mode FV 30V
Range : -15.00
4503.10086                          Exp= -14.99996    Act= -14.99991
V                                                 HC->HC V/I Mode MV 30V Range
4503.10087                                                  0.000048148976125
V              -0.00625              0.00625       Delta : HC->HC V/I Mode MV 30V
Range : -15.00
4503.10088                                                          0.00016
V               -0.0025                0.0025       HC->HC V/I Mode FV 30V Range
4503.10089                                                  0.000157718561000
V               -0.0025                0.0025       Delta : HC->HC V/I Mode FV 30V
Range : 0.00
4503.10090                          Exp= 0.00016      Act= 0.00026
V                                                 HC->HC V/I Mode MV 30V Range
4503.10091                                                  0.000107176553405
V               -0.0025                0.0025       Delta : HC->HC V/I Mode MV 30V
Range : 0.00
4503.10092                                                         15.00003
V                14.994                15.006       HC->HC V/I Mode FV 30V Range
```

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4503.10093                                          0.000033900000000
V              -0.00625          0.00625       Delta : HC->HC V/I Mode FV 30V
Range : 15.00
4503.10094                    Exp= 15.00003    Act= 15.00001
V                                           HC->HC V/I Mode MV 30V Range
4503.10095                                         -0.000024171409867
V              -0.00625          0.00625       Delta : HC->HC V/I Mode MV 30V
Range : 15.00
4503.10096                                                    30.00001
V                29.99            30.01       HC->HC V/I Mode FV 30V Range
4503.10097                                          0.000013400000000
V                -0.01             0.01       Delta : HC->HC V/I Mode FV 30V
Range : 30.00
4503.10098                    Exp= 30.00001    Act= 29.99991
V                                           HC->HC V/I Mode MV 30V Range
4503.10099                                         -0.000107810327695
V                -0.01             0.01       Delta : HC->HC V/I Mode MV 30V
Range : 30.00
4503.10100                                                   -9.99991
V             -10.003           -9.9967       HC->HC V/I Mode FV 10V Range
4503.10101                                          0.000088209999999
V              -0.0033           0.0033       Delta : HC->HC V/I Mode FV 10V
Range : -10.00
4503.10102                    Exp= -9.99991    Act= -10.00001
V                                           HC->HC V/I Mode MV 10V Range
4503.10103                                         -0.000096864272139
V              -0.0033           0.0033       Delta : HC->HC V/I Mode MV 10V
Range : -10.00
4503.10104                                                   -5.00002
V              -5.0021           -4.998       HC->HC V/I Mode FV 10V Range
4503.10105                                         -0.000018600000000
V             -0.00205          0.00205       Delta : HC->HC V/I Mode FV 10V
Range : -5.00
4503.10106                    Exp= -5.00002    Act= -5.00005
V                                           HC->HC V/I Mode MV 10V Range
4503.10107                                         -0.000033992246029
V             -0.00205          0.00205       Delta : HC->HC V/I Mode MV 10V
Range : -5.00
4503.10108                                                    0.00004
V              -0.0008           0.0008       HC->HC V/I Mode FV 10V Range
```

4503.10109 0.000042468784200
V -0.0008 0.0008 Delta : HC->HC V/I Mode FV 10V Range : 0.00
4503.10110 Exp= 0.00004 Act= 0.00007
V HC->HC V/I Mode MV 10V Range
4503.10111 0.000024379857193
V -0.0008 0.0008 Delta : HC->HC V/I Mode MV 10V Range : 0.00
4503.10112 5.00002
V 4.998 5.0021 HC->HC V/I Mode FV 10V Range
4503.10113 0.000015740000000
V -0.00205 0.00205 Delta : HC->HC V/I Mode FV 10V Range : 5.00
4503.10114 Exp= 5.00002 Act= 5.00001
V HC->HC V/I Mode MV 10V Range
4503.10115 -0.000003966173604
V -0.00205 0.00205 Delta : HC->HC V/I Mode MV 10V Range : 5.00
4503.10116 10.00002
V 9.9967 10.003 HC->HC V/I Mode FV 10V Range
4503.10117 0.000017200000000
V -0.0033 0.0033 Delta : HC->HC V/I Mode FV 10V Range : 10.00
4503.10118 Exp= 10.00002 Act= 9.99999
V HC->HC V/I Mode MV 10V Range
4503.10119 -0.000031955104742
V -0.0033 0.0033 Delta : HC->HC V/I Mode MV 10V Range : 10.00
4503.10120 HC relays OK
DIB HC Relays Check
4503.10121 0
status 0 DIB HC Relays Check
4504.11000 HC relays verified
DIB HC Relays Check
4504.11001 0
status 0 DIB HC Relays Check
4504.11002 -500.00024
mA -500.38 -499.63 LC->LC FI 100V Range 500mA
4504.11003 -0.000238000000024
mA -0.375 0.375 Delta : LC->LC FI 100V Range

500mA : -500.00
4504.11004 Exp= -500.00024 Act= -500.01029
mA LC->LC MI 100V Range 500mA
4504.11005 -0.010054328841250
mA -0.375 0.375 Delta : LC->LC MI 100V Range
500mA : -500.00
4504.11006 -250.00227
mA -250.25 -249.75 LC->LC FI 100V Range 500mA
4504.11007 -0.002264999999994
mA -0.25 0.25 Delta : LC->LC FI 100V Range
500mA : -250.00
4504.11008 Exp= -250.00226 Act= -250.00396
mA LC->LC MI 100V Range 500mA
4504.11009 -0.001694147665432
mA -0.25 0.25 Delta : LC->LC MI 100V Range
500mA : -250.00
4504.11010 -0.00023
mA -0.125 0.125 LC->LC FI 100V Range 500mA
4504.11011 -0.000230140131000
mA -0.125 0.125 Delta : LC->LC FI 100V Range
500mA : 0.00
4504.11012 Exp= -0.00023 Act= -0.00185
mA LC->LC MI 100V Range 500mA
4504.11013 -0.001615661149144
mA -0.125 0.125 Delta : LC->LC MI 100V Range
500mA : 0.00
4504.11014 250.00078
mA 249.75 250.25 LC->LC FI 100V Range 500mA
4504.11015 0.000775000000004
mA -0.25 0.25 Delta : LC->LC FI 100V Range
500mA : 250.00
4504.11016 Exp= 250.00078 Act= 250.00070
mA LC->LC MI 100V Range 500mA
4504.11017 -0.000079302400422
mA -0.25 0.25 Delta : LC->LC MI 100V Range
500mA : 250.00
4504.11018 499.99978
mA 499.63 500.38 LC->LC FI 100V Range 500mA
4504.11019 -0.000224000000003
mA -0.375 0.375 Delta : LC->LC FI 100V Range

500mA : 500.00
4504.11020 Exp= 499.99978 Act= 499.99226
mA LC->LC MI 100V Range 500mA
4504.11021 -0.007520698046051
mA -0.375 0.375 Delta : LC->LC MI 100V Range
500mA : 500.00
4504.11022 -950.00863
mA -950.6 -949.4 LC->LC FI 30V Range 1A
4504.11023 -0.008631000000037
mA -0.6 0.6 Delta : LC->LC FI 30V Range
1A : -950.00
4504.11024 Exp= -950.00863 Act= -950.00623
mA LC->LC MI 30V Range 1A
4504.11025 0.002402899177696
mA -0.6 0.6 Delta : LC->LC MI 30V Range
1A : -950.00
4504.11026 -475.00388
mA -475.36 -474.64 LC->LC FI 30V Range 1A
4504.11027 -0.003883000000030
mA -0.3625 0.3625 Delta : LC->LC FI 30V Range
1A : -475.00
4504.11028 Exp= -475.00388 Act= -474.99380
mA LC->LC MI 30V Range 1A
4504.11029 0.010079869083029
mA -0.3625 0.3625 Delta : LC->LC MI 30V Range
1A : -475.00
4504.11030 -0.00414
mA -0.125 0.125 LC->LC FI 30V Range 1A
4504.11031 -0.004142522470000
mA -0.125 0.125 Delta : LC->LC FI 30V Range
1A : 0.00
4504.11032 Exp= -0.00414 Act= -0.00554
mA LC->LC MI 30V Range 1A
4504.11033 -0.001394092798867
mA -0.125 0.125 Delta : LC->LC MI 30V Range
1A : 0.00
4504.11034 475.00645
mA 474.64 475.36 LC->LC FI 30V Range 1A
4504.11035 0.006446000000039
mA -0.3625 0.3625 Delta : LC->LC FI 30V Range

1A : 475.00
4504.11036 Exp= 475.00645 Act= 475.00674
mA LC->LC MI 30V Range 1A
4504.11037 0.000291954655381
mA -0.3625 0.3625 Delta : LC->LC MI 30V Range
1A : 475.00
4504.11038 950.00517
mA 949.4 950.6 LC->LC FI 30V Range 1A
4504.11039 0.005173999999897
mA -0.6 0.6 Delta : LC->LC FI 30V Range
1A : 950.00
4504.11040 Exp= 950.00517 Act= 949.99541
mA LC->LC MI 30V Range 1A
4504.11041 -0.009760608529064
mA -0.6 0.6 Delta : LC->LC MI 30V Range
1A : 950.00
4504.11042 -100.00033
mA -100.06 -99.938 LC->LC FI 30V Range 100mA
4504.11043 -0.000326000000001
mA -0.0625 0.0625 Delta : LC->LC FI 30V Range
100mA : -100.00
4504.11044 Exp= -100.00033 Act= -100.00069
mA LC->LC MI 30V Range 100mA
4504.11045 -0.000368745018704
mA -0.0625 0.0625 Delta : LC->LC MI 30V Range
100mA : -100.00
4504.11046 -50.00031
mA -50.038 -49.963 LC->LC FI 30V Range 100mA
4504.11047 -0.000309899999998
mA -0.0375 0.0375 Delta : LC->LC FI 30V Range
100mA : -50.00
4504.11048 Exp= -50.00031 Act= -50.00068
mA LC->LC MI 30V Range 100mA
4504.11049 -0.000366993189303
mA -0.0375 0.0375 Delta : LC->LC MI 30V Range
100mA : -50.00
4504.11050 0.00006
mA -0.0125 0.0125 LC->LC FI 30V Range 100mA
4504.11051 0.000060131014800
mA -0.0125 0.0125 Delta : LC->LC FI 30V Range

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100mA : 0.00
4504.11052                                  Exp= 0.00006      Act= -0.00055
mA                                                  LC->LC MI 30V Range 100mA
4504.11053                                                -0.000612479920888
mA              -0.0125              0.0125       Delta : LC->LC MI 30V Range
100mA : 0.00
4504.11054                                                          50.00080
mA               49.963              50.038       LC->LC FI 30V Range 100mA
4504.11055                                                 0.000801699999997
mA              -0.0375              0.0375       Delta : LC->LC FI 30V Range
100mA : 50.00
4504.11056                                  Exp= 50.00080     Act= 49.99941
mA                                                  LC->LC MI 30V Range 100mA
4504.11057                                                -0.001390116462403
mA              -0.0375              0.0375       Delta : LC->LC MI 30V Range
100mA : 50.00
4504.11058                                                         100.00036
mA               99.938              100.06       LC->LC FI 30V Range 100mA
4504.11059                                                 0.000362999999993
mA              -0.0625              0.0625       Delta : LC->LC FI 30V Range
100mA : 100.00
4504.11060                                  Exp= 100.00036    Act= 99.99948
mA                                                  LC->LC MI 30V Range 100mA
4504.11061                                                -0.000887376452283
mA              -0.0625              0.0625       Delta : LC->LC MI 30V Range
100mA : 100.00
4504.11062                                                          -9.99998
mA               -10.006             -9.9938      LC->LC FI 30V Range 10mA
4504.11063                                                 0.000015590000000
mA             -0.00625             0.00625       Delta : LC->LC FI 30V Range
10mA : -10.00
4504.11064                                  Exp= -9.99998     Act= -10.00022
mA                                                  LC->LC MI 30V Range 10mA
4504.11065                                                -0.000231643941181
mA             -0.00625             0.00625       Delta : LC->LC MI 30V Range
10mA : -10.00
4504.11066                                                          -5.00000
mA              -5.0038              -4.9963      LC->LC FI 30V Range 10mA
4504.11067                                                -0.000001290000000
mA             -0.00375             0.00375       Delta : LC->LC FI 30V Range
```

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10mA : -5.00
4504.11068                              Exp= -5.00000     Act= -5.00004
mA                                                LC->LC MI 30V Range 10mA
4504.11069                                              -0.000039745229462
mA             -0.00375                0.00375        Delta : LC->LC MI 30V Range
10mA : -5.00
4504.11070                                                        0.00000
mA             -0.00125                0.00125        LC->LC FI 30V Range 10mA
4504.11071                                              -0.000002296563970
mA             -0.00125                0.00125        Delta : LC->LC FI 30V Range
10mA : 0.00
4504.11072                              Exp= -0.00000     Act= -0.00007
mA                                                LC->LC MI 30V Range 10mA
4504.11073                                              -0.000064565337322
mA             -0.00125                0.00125        Delta : LC->LC MI 30V Range
10mA : 0.00
4504.11074                                                        5.00002
mA               4.9963                 5.0038        LC->LC FI 30V Range 10mA
4504.11075                                               0.000022009999999
mA             -0.00375                0.00375        Delta : LC->LC FI 30V Range
10mA : 5.00
4504.11076                              Exp= 5.00002      Act= 5.00002
mA                                                LC->LC MI 30V Range 10mA
4504.11077                                               0.000002431266550
mA             -0.00375                0.00375        Delta : LC->LC MI 30V Range
10mA : 5.00
4504.11078                                                        9.99989
mA               9.9938                 10.006        LC->LC FI 30V Range 10mA
4504.11079                                              -0.000110120000000
mA             -0.00625                0.00625        Delta : LC->LC FI 30V Range
10mA : 10.00
4504.11080                              Exp= 9.99989      Act= 9.99988
mA                                                LC->LC MI 30V Range 10mA
4504.11081                                              -0.000008846951360
mA             -0.00625                0.00625        Delta : LC->LC MI 30V Range
10mA : 10.00
4504.11082                                                       -1.00000
mA              -1.0006               -0.99938        LC->LC FI 30V Range 1mA
4504.11083                                              -0.000001850000000
mA            -0.000625               0.000625        Delta : LC->LC FI 30V Range
```

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1mA : -1.00
4504.11084                              Exp= -1.00000    Act= -1.00001
mA                                                LC->LC MI 30V Range 1mA
4504.11085                                              -0.000006031689850
mA            -0.000625          0.000625       Delta : LC->LC MI 30V Range
1mA : -1.00
4504.11086                                                      -0.50000
mA             -0.50038          -0.49963       LC->LC FI 30V Range 1mA
4504.11087                                              -0.000004884000000
mA            -0.000375          0.000375       Delta : LC->LC FI 30V Range
1mA : -0.50
4504.11088                              Exp= -0.50000    Act= -0.50001
mA                                                LC->LC MI 30V Range 1mA
4504.11089                                              -0.000002164449439
mA            -0.000375          0.000375       Delta : LC->LC MI 30V Range
1mA : -0.50
4504.11090                                                       0.00000
mA            -0.000125          0.000125       LC->LC FI 30V Range 1mA
4504.11091                                              -0.000002538454560
mA            -0.000125          0.000125       Delta : LC->LC FI 30V Range
1mA : 0.00
4504.11092                              Exp= -0.00000    Act= -0.00001
mA                                                LC->LC MI 30V Range 1mA
4504.11093                                              -0.000003978176508
mA            -0.000125          0.000125       Delta : LC->LC MI 30V Range
1mA : 0.00
4504.11094                                                       0.50000
mA              0.49963           0.50038       LC->LC FI 30V Range 1mA
4504.11095                                              -0.000002246000000
mA            -0.000375          0.000375       Delta : LC->LC FI 30V Range
1mA : 0.50
4504.11096                              Exp= 0.50000     Act= 0.50000
mA                                                LC->LC MI 30V Range 1mA
4504.11097                                               0.000003843921421
mA            -0.000375          0.000375       Delta : LC->LC MI 30V Range
1mA : 0.50
4504.11098                                                       1.00000
mA              0.99938            1.0006       LC->LC FI 30V Range 1mA
4504.11099                                              -0.000001408000000
mA            -0.000625          0.000625       Delta : LC->LC FI 30V Range
```

1mA : 1.00
4504.11100 Exp= 1.00000 Act= 1.00000
mA LC->LC MI 30V Range 1mA
4504.11101 -0.000001246869808
mA -0.000625 0.000625 Delta : LC->LC MI 30V Range
1mA : 1.00
4504.11102 -949.99734
mA -950.73 -949.28 LC->LC FI 10V Range 2A
4504.11103 0.002663999999982
mA -0.725 0.725 Delta : LC->LC FI 10V Range
2A : -950.00
4504.11104 Exp= -949.99734 Act= -949.99096
mA LC->LC MI 10V Range 2A
4504.11105 0.006372085106364
mA -0.725 0.725 Delta : LC->LC MI 10V Range
2A : -950.00
4504.11106 -474.99478
mA -475.49 -474.51 LC->LC FI 10V Range 2A
4504.11107 0.005221000000006
mA -0.4875 0.4875 Delta : LC->LC FI 10V Range
2A : -475.00
4504.11108 Exp= -474.99478 Act= -474.99196
mA LC->LC MI 10V Range 2A
4504.11109 0.002822067469481
mA -0.4875 0.4875 Delta : LC->LC MI 10V Range
2A : -475.00
4504.11110 0.00583
mA -0.25 0.25 LC->LC FI 10V Range 2A
4504.11111 0.005830216880000
mA -0.25 0.25 Delta : LC->LC FI 10V Range
2A : 0.00
4504.11112 Exp= 0.00583 Act= -0.00654
mA LC->LC MI 10V Range 2A
4504.11113 -0.012367538807712
mA -0.25 0.25 Delta : LC->LC MI 10V Range
2A : 0.00
4504.11114 474.99286
mA 474.51 475.49 LC->LC FI 10V Range 2A
4504.11115 -0.007143999999983
mA -0.4875 0.4875 Delta : LC->LC FI 10V Range

2A : 475.00
4504.11116 Exp= 474.99286 Act= 474.99836
mA LC->LC MI 10V Range 2A
4504.11117 0.005505587678442
mA -0.4875 0.4875 Delta : LC->LC MI 10V Range
2A : 475.00
4504.11118 949.99230
mA 949.28 950.73 LC->LC FI 10V Range 2A
4504.11119 -0.007700999999997
mA -0.725 0.725 Delta : LC->LC FI 10V Range
2A : 950.00
4504.11120 Exp= 949.99230 Act= 949.99537
mA LC->LC MI 10V Range 2A
4504.11121 0.003066166781196
mA -0.725 0.725 Delta : LC->LC MI 10V Range
2A : 950.00
4504.11122 -200.00160
mA -200.13 -199.88 LC->LC FI 10V Range 200mA
4504.11123 -0.001597000000004
mA -0.125 0.125 Delta : LC->LC FI 10V Range
200mA : -200.00
4504.11124 Exp= -200.00160 Act= -200.00299
mA LC->LC MI 10V Range 200mA
4504.11125 -0.001393103789468
mA -0.125 0.125 Delta : LC->LC MI 10V Range
200mA : -200.00
4504.11126 -100.00456
mA -100.08 -99.925 LC->LC FI 10V Range 200mA
4504.11127 -0.004561000000010
mA -0.075 0.075 Delta : LC->LC FI 10V Range
200mA : -100.00
4504.11128 Exp= -100.00456 Act= -100.00224
mA LC->LC MI 10V Range 200mA
4504.11129 0.002318696275040
mA -0.075 0.075 Delta : LC->LC MI 10V Range
200mA : -100.00
4504.11130 -0.00031
mA -0.025 0.025 LC->LC FI 10V Range 200mA
4504.11131 -0.000306853508000
mA -0.025 0.025 Delta : LC->LC FI 10V Range

200mA : 0.00
4504.11132 Exp= -0.00031 Act= -0.00056
mA LC->LC MI 10V Range 200mA
4504.11133 -0.000253521849250
mA -0.025 0.025 Delta : LC->LC MI 10V Range
200mA : 0.00
4504.11134 100.00391
mA 99.925 100.08 LC->LC FI 10V Range 200mA
4504.11135 0.003909000000007
mA -0.075 0.075 Delta : LC->LC FI 10V Range
200mA : 100.00
4504.11136 Exp= 100.00391 Act= 100.00046
mA LC->LC MI 10V Range 200mA
4504.11137 -0.003447311184132
mA -0.075 0.075 Delta : LC->LC MI 10V Range
200mA : 100.00
4504.11138 199.99715
mA 199.88 200.13 LC->LC FI 10V Range 200mA
4504.11139 -0.002850999999993
mA -0.125 0.125 Delta : LC->LC FI 10V Range
200mA : 200.00
4504.11140 Exp= 199.99715 Act= 199.99860
mA LC->LC MI 10V Range 200mA
4504.11141 0.001451247729619
mA -0.125 0.125 Delta : LC->LC MI 10V Range
200mA : 200.00
4504.11142 -20.00015
mA -20.013 -19.988 LC->LC FI 10V Range 20mA
4504.11143 -0.000146699999998
mA -0.0125 0.0125 Delta : LC->LC FI 10V Range
20mA : -20.00
4504.11144 Exp= -20.00015 Act= -20.00024
mA LC->LC MI 10V Range 20mA
4504.11145 -0.000089530283017
mA -0.0125 0.0125 Delta : LC->LC MI 10V Range
20mA : -20.00
4504.11146 -10.00003
mA -10.008 -9.9925 LC->LC FI 10V Range 20mA
4504.11147 -0.000028200000001
mA -0.0075 0.0075 Delta : LC->LC FI 10V Range

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20mA : -10.00
4504.11148                              Exp= -10.00003    Act= -10.00005
mA                                              LC->LC MI 10V Range 20mA
4504.11149                                            -0.000023606948469
mA              -0.0075          0.0075       Delta : LC->LC MI 10V Range
20mA : -10.00
4504.11150                                                      -0.00014
mA              -0.0025          0.0025       LC->LC FI 10V Range 20mA
4504.11151                                            -0.000136965088000
mA              -0.0025          0.0025       Delta : LC->LC FI 10V Range
20mA : 0.00
4504.11152                              Exp= -0.00014     Act= -0.00014
mA                                              LC->LC MI 10V Range 20mA
4504.11153                                            -0.000002542978627
mA              -0.0025          0.0025       Delta : LC->LC MI 10V Range
20mA : 0.00
4504.11154                                                      9.99977
mA               9.9925          10.008       LC->LC FI 10V Range 20mA
4504.11155                                            -0.000228860000000
mA              -0.0075          0.0075       Delta : LC->LC FI 10V Range
20mA : 10.00
4504.11156                              Exp= 9.99977      Act= 9.99997
mA                                              LC->LC MI 10V Range 20mA
4504.11157                                             0.000202725943335
mA              -0.0075          0.0075       Delta : LC->LC MI 10V Range
20mA : 10.00
4504.11158                                                      19.99949
mA               19.988          20.013       LC->LC FI 10V Range 20mA
4504.11159                                            -0.000505199999999
mA              -0.0125          0.0125       Delta : LC->LC FI 10V Range
20mA : 20.00
4504.11160                              Exp= 19.99949     Act= 19.99971
mA                                              LC->LC MI 10V Range 20mA
4504.11161                                             0.000218047471691
mA              -0.0125          0.0125       Delta : LC->LC MI 10V Range
20mA : 20.00
4504.11162                                                      -2.00001
mA              -2.0013          -1.9988      LC->LC FI 10V Range 2mA
4504.11163                                            -0.000007310000000
mA             -0.00125         0.00125       Delta : LC->LC FI 10V Range
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2mA : -2.00
4504.11164                              Exp= -2.00001     Act= -2.00001
mA                                                LC->LC MI 10V Range 2mA
4504.11165                                              -0.000004528419278
mA             -0.00125                0.00125        Delta : LC->LC MI 10V Range
2mA : -2.00
4504.11166                                                        -1.00001
mA              -1.0008                -0.99925        LC->LC FI 10V Range 2mA
4504.11167                                              -0.000008080000000
mA             -0.00075                0.00075        Delta : LC->LC FI 10V Range
2mA : -1.00
4504.11168                              Exp= -1.00001     Act= -1.00001
mA                                                LC->LC MI 10V Range 2mA
4504.11169                                               0.000000559221960
mA             -0.00075                0.00075        Delta : LC->LC MI 10V Range
2mA : -1.00
4504.11170                                                        0.00000
mA             -0.00025                0.00025        LC->LC FI 10V Range 2mA
4504.11171                                               0.000000947788181
mA             -0.00025                0.00025        Delta : LC->LC FI 10V Range
2mA : 0.00
4504.11172                              Exp= 0.00000      Act= -0.00001
mA                                                LC->LC MI 10V Range 2mA
4504.11173                                              -0.000005966937930
mA             -0.00025                0.00025        Delta : LC->LC MI 10V Range
2mA : 0.00
4504.11174                                                        1.00000
mA              0.99925                 1.0008        LC->LC FI 10V Range 2mA
4504.11175                                               0.000001150000000
mA             -0.00075                0.00075        Delta : LC->LC FI 10V Range
2mA : 1.00
4504.11176                              Exp= 1.00000      Act= 1.00001
mA                                                LC->LC MI 10V Range 2mA
4504.11177                                               0.000009890806119
mA             -0.00075                0.00075        Delta : LC->LC MI 10V Range
2mA : 1.00
4504.11178                                                        1.99998
mA               1.9988                 2.0013        LC->LC FI 10V Range 2mA
4504.11179                                              -0.000016200000000
mA             -0.00125                0.00125        Delta : LC->LC FI 10V Range
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```
2mA : 2.00
4504.11180                              Exp= 1.99998     Act= 1.99999
mA                                            LC->LC MI 10V Range 2mA
4504.11181                                           0.000005468606507
mA              -0.00125              0.00125       Delta : LC->LC MI 10V Range
2mA : 2.00
4504.11182                               Chk RSense100A =   2.00022 mOhms
4504.11183                                                            0
status                                       0
4504.11184                                                      -29.99596
mA                -60.15                0.15       HC->HC FI 10V Range 100A
4504.11185                                           0.004042754911218
mA                -30.15                30.15       Delta : HC->HC FI 10V Range
100A : -30.00
4504.11186                              Exp= -29.99596   Act= -30.00041
mA                                            HC->HC MI 10V Range 100A
4504.11187                                          -0.004455686673982
mA                -30.15                30.15       Delta : HC->HC MI 10V Range
100A : -30.00
4504.11188                                                    -14.99736
mA              -45.075               15.075       HC->HC FI 10V Range 100A
4504.11189                                           0.002642512990617
mA              -30.075               30.075       Delta : HC->HC FI 10V Range
100A : -15.00
4504.11190                              Exp= -14.99736   Act= -14.99998
mA                                            HC->HC MI 10V Range 100A
4504.11191                                         -0.002623794237966
mA              -30.075               30.075       Delta : HC->HC MI 10V Range
100A : -15.00
4504.11192                                                      0.00000
mA                  -30                   30       HC->HC FI 10V Range 100A
4504.11193                                           0.000000000000000
mA                  -30                   30       Delta : HC->HC FI 10V Range
100A : 0.00
4504.11194                              Exp= 0.00000     Act= -0.00063
mA                                            HC->HC MI 10V Range 100A
4504.11195                                         -0.000632299970137
mA                  -30                   30       Delta : HC->HC MI 10V Range
100A : 0.00
4504.11196                                                     15.00947
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mA                -15.075          45.075       HC->HC FI 10V Range 100A
4504.11197                                              0.009472588003129
mA                -30.075          30.075       Delta : HC->HC FI 10V Range
100A : 15.00
4504.11198                              Exp= 15.00947    Act= 14.99979
mA                                               HC->HC MI 10V Range 100A
4504.11199                                             -0.009681510999673
mA                -30.075          30.075       Delta : HC->HC MI 10V Range
100A : 15.00
4504.11200                                                      30.00373
mA                  -0.15          60.15        HC->HC FI 10V Range 100A
4504.11201                                              0.003726896040355
mA                 -30.15          30.15        Delta : HC->HC FI 10V Range
100A : 30.00
4504.11202                              Exp= 30.00373    Act= 29.99973
mA                                               HC->HC MI 10V Range 100A
4504.11203                                             -0.003998485322800
mA                 -30.15          30.15        Delta : HC->HC MI 10V Range
100A : 30.00
4504.11204                                                    -949.98719
mA                -957.75        -942.25        HC->HC FI 75V Range 10A
4504.11205                                              0.012814999999932
mA                  -7.75           7.75        Delta : HC->HC FI 75V Range
10A : -950.00
4504.11206                              Exp= -949.98719  Act= -950.00648
mA                                               HC->HC MI 75V Range 10A
4504.11207                                             -0.019294133985909
mA                  -7.75           7.75        Delta : HC->HC MI 75V Range
10A : -950.00
4504.11208                                                    -475.19949
mA                -480.38        -469.63        HC->HC FI 75V Range 10A
4504.11209                                             -0.199484999999981
mA                  -5.375          5.375        Delta : HC->HC FI 75V Range
10A : -475.00
4504.11210                              Exp= -475.19948  Act= -475.02278
mA                                               HC->HC MI 75V Range 10A
4504.11211                                              0.176705781767737
mA                  -5.375          5.375        Delta : HC->HC MI 75V Range
10A : -475.00
4504.11212                                                     -0.10436
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mA                  -3                  3       HC->HC FI 75V Range 10A
4504.11213                                              -0.104360882000000
mA                  -3                  3       Delta : HC->HC FI 75V Range
10A : 0.00
4504.11214                          Exp= -0.10436    Act= -0.04892
mA                                          HC->HC MI 75V Range 10A
4504.11215                                              0.055438548322817
mA                  -3                  3       Delta : HC->HC MI 75V Range
10A : 0.00
4504.11216                                                      475.17943
mA              469.63              480.38      HC->HC FI 75V Range 10A
4504.11217                                              0.179428000000030
mA              -5.375               5.375      Delta : HC->HC FI 75V Range
10A : 475.00
4504.11218                          Exp= 475.17943   Act= 474.96915
mA                                          HC->HC MI 75V Range 10A
4504.11219                                              -0.210280489311344
mA              -5.375               5.375      Delta : HC->HC MI 75V Range
10A : 475.00
4504.11220                                                      950.03779
mA              942.25              957.75      HC->HC FI 75V Range 10A
4504.11221                                              0.037788999999975
mA               -7.75                7.75      Delta : HC->HC FI 75V Range
10A : 950.00
4504.11222                          Exp= 950.03779   Act= 949.91396
mA                                          HC->HC MI 75V Range 10A
4504.11223                                              -0.123829614850820
mA               -7.75                7.75      Delta : HC->HC MI 75V Range
10A : 950.00
4504.11224                                                      -949.98719
mA            -954.62             -945.39       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11225                                              0.012814999999932
mA              -4.615               4.615      Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11226                          Exp= -949.98719  Act= -950.00648
mA                                          HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11227                                              -0.019294133985909
mA              -4.615               4.615      Delta : HC->HC V/I Mode
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Current Force/Measure with booster check 75V Range 10A : -950.00
4504.11228                                                    -475.19949
mA              -478.81              -471.19       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11229                                                 -0.199484999999981
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11230                                 Exp= -475.19948  Act= -475.02278
mA                                                 HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11231                                                  0.176705781767737
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : -475.00
4504.11232                                                        -0.10436
mA                   -3                    3       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11233                                                 -0.104360882000000
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11234                                 Exp= -0.10436    Act= -0.04892
mA                                                 HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11235                                                  0.055438548322817
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 0.00
4504.11236                                                      475.17943
mA               471.19                478.81       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11237                                                  0.179428000000030
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11238                                 Exp= 475.17943   Act= 474.96915
mA                                                 HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11239                                                 -0.210280489311344
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 475.00
4504.11240                                                      950.03779
mA               945.39                954.62       HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
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4504.11241                                                    0.037788999999975
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11242                              Exp= 950.03779   Act= 949.91396
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 75V Range 10A
4504.11243                                                   -0.123829614850820
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 75V Range 10A : 950.00
4504.11244                                                          -950.02269
mA            -953.15            -946.85       HC->HC FI 75V Range 4A
4504.11245                                                   -0.022685999999908
mA              -3.15               3.15       Delta : HC->HC FI 75V Range
4A : -950.00
4504.11246                              Exp= -950.02269  Act= -949.99660
mA                                                HC->HC MI 75V Range 4A
4504.11247                                                   0.026082195652862
mA              -3.15               3.15       Delta : HC->HC MI 75V Range
4A : -950.00
4504.11248                                                          -475.10082
mA              -477.2              -472.8      HC->HC FI 75V Range 4A
4504.11249                                                  -0.100815000000011
mA               -2.2                2.2       Delta : HC->HC FI 75V Range
4A : -475.00
4504.11250                              Exp= -475.10082  Act= -475.02289
mA                                                HC->HC MI 75V Range 4A
4504.11251                                                   0.077922794771439
mA              -2.2                2.2       Delta : HC->HC MI 75V Range
4A : -475.00
4504.11252                                                            -0.03518
mA              -1.25               1.25       HC->HC FI 75V Range 4A
4504.11253                                                  -0.035180755400000
mA              -1.25               1.25       Delta : HC->HC FI 75V Range
4A : 0.00
4504.11254                              Exp= -0.03518    Act= -0.01708
mA                                                HC->HC MI 75V Range 4A
4504.11255                                                   0.018101328709530
mA              -1.25               1.25       Delta : HC->HC MI 75V Range
4A : 0.00
4504.11256                                                           475.08195
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mA                  472.8                 477.2       HC->HC FI 75V Range 4A
4504.11257                                                0.081949999999949
mA                   -2.2                   2.2       Delta : HC->HC FI 75V Range
4A : 475.00
4504.11258                                    Exp= 475.08195   Act= 474.99753
mA                                                    HC->HC MI 75V Range 4A
4504.11259                                                  -0.084420005939194
mA                   -2.2                   2.2       Delta : HC->HC MI 75V Range
4A : 475.00
4504.11260                                                            950.04339
mA                 946.85                953.15       HC->HC FI 75V Range 4A
4504.11261                                                0.043392000000040
mA                   -3.15                  3.15       Delta : HC->HC FI 75V Range
4A : 950.00
4504.11262                                    Exp= 950.04339   Act= 949.97183
mA                                                    HC->HC MI 75V Range 4A
4504.11263                                                  -0.071559587567663
mA                   -3.15                  3.15       Delta : HC->HC MI 75V Range
4A : 950.00
4504.11264                                                           -949.97356
mA                -957.75               -942.25       HC->HC FI 30V Range 10A
4504.11265                                                0.026440999999977
mA                   -7.75                  7.75       Delta : HC->HC FI 30V Range
10A : -950.00
4504.11266                                    Exp= -949.97356  Act= -949.96464
mA                                                    HC->HC MI 30V Range 10A
4504.11267                                                0.008917400496671
mA                   -7.75                  7.75       Delta : HC->HC MI 30V Range
10A : -950.00
4504.11268                                                           -475.16229
mA                -480.38               -469.63       HC->HC FI 30V Range 10A
4504.11269                                                  -0.162291999999979
mA                   -5.375                 5.375      Delta : HC->HC FI 30V Range
10A : -475.00
4504.11270                                    Exp= -475.16229  Act= -474.98444
mA                                                    HC->HC MI 30V Range 10A
4504.11271                                                0.177855424657366
mA                   -5.375                 5.375      Delta : HC->HC MI 30V Range
10A : -475.00
4504.11272                                                            -0.06955
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mA                  -3                   3       HC->HC FI 30V Range 10A
4504.11273                                              -0.069548349700000
mA                  -3                   3       Delta : HC->HC FI 30V Range
10A : 0.00
4504.11274                              Exp= -0.06955    Act= -0.02602
mA                                               HC->HC MI 30V Range 10A
4504.11275                                               0.043533075424222
mA                  -3                   3       Delta : HC->HC MI 30V Range
10A : 0.00
4504.11276                                                      475.13958
mA               469.63               480.38       HC->HC FI 30V Range 10A
4504.11277                                               0.139582000000019
mA               -5.375                5.375       Delta : HC->HC FI 30V Range
10A : 475.00
4504.11278                              Exp= 475.13958   Act= 474.92498
mA                                               HC->HC MI 30V Range 10A
4504.11279                                              -0.214598575152081
mA               -5.375                5.375       Delta : HC->HC MI 30V Range
10A : 475.00
4504.11280                                                      950.05496
mA               942.25               957.75       HC->HC FI 30V Range 10A
4504.11281                                               0.054955000000064
mA                -7.75                 7.75       Delta : HC->HC FI 30V Range
10A : 950.00
4504.11282                              Exp= 950.05496   Act= 949.93278
mA                                               HC->HC MI 30V Range 10A
4504.11283                                             -0.122173835072431
mA                -7.75                 7.75       Delta : HC->HC MI 30V Range
10A : 950.00
4504.11284                                                     -949.97356
mA              -954.62              -945.39       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11285                                               0.026440999999977
mA               -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11286                              Exp= -949.97356  Act= -949.96464
mA                                               HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11287                                               0.008917400496671
mA               -4.615                4.615       Delta : HC->HC V/I Mode
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Current Force/Measure with booster check 30V Range 10A : -950.00
4504.11288                                                    -475.16229
mA              -478.81              -471.19       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11289                                                 -0.162291999999979
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11290                                 Exp= -475.16229  Act= -474.98444
mA                                                 HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11291                                                  0.177855424657366
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : -475.00
4504.11292                                                        -0.06955
mA                   -3                    3       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11293                                                 -0.069548349700000
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11294                                 Exp= -0.06955    Act= -0.02602
mA                                                 HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11295                                                  0.043533075424222
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 0.00
4504.11296                                                      475.13958
mA               471.19                478.81       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11297                                                  0.139582000000019
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11298                                 Exp= 475.13958   Act= 474.92498
mA                                                 HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11299                                                 -0.214598575152081
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 475.00
4504.11300                                                      950.05496
mA               945.39                954.62       HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
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4504.11301                                                  0.054955000000064
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11302                            Exp= 950.05496   Act= 949.93278
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 30V Range 10A
4504.11303                                                -0.122173835072431
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 30V Range 10A : 950.00
4504.11304                                                        -949.99485
mA            -953.15            -946.85       HC->HC FI 30V Range 4A
4504.11305                                                 0.005150000000071
mA              -3.15               3.15       Delta : HC->HC FI 30V Range
4A : -950.00
4504.11306                            Exp= -949.99485  Act= -949.98392
mA                                                HC->HC MI 30V Range 4A
4504.11307                                                 0.010926088418842
mA              -3.15               3.15       Delta : HC->HC MI 30V Range
4A : -950.00
4504.11308                                                      -475.08155
mA              -477.2              -472.8      HC->HC FI 30V Range 4A
4504.11309                                             -0.081545000000006
mA               -2.2                2.2       Delta : HC->HC FI 30V Range
4A : -475.00
4504.11310                            Exp= -475.08155  Act= -475.01208
mA                                                HC->HC MI 30V Range 4A
4504.11311                                              0.069463766420142
mA              -2.2                2.2       Delta : HC->HC MI 30V Range
4A : -475.00
4504.11312                                                        -0.02237
mA              -1.25               1.25       HC->HC FI 30V Range 4A
4504.11313                                            -0.022369621700000
mA              -1.25               1.25       Delta : HC->HC FI 30V Range
4A : 0.00
4504.11314                            Exp= -0.02237    Act= -0.00505
mA                                                HC->HC MI 30V Range 4A
4504.11315                                              0.017317413848887
mA              -1.25               1.25       Delta : HC->HC MI 30V Range
4A : 0.00
4504.11316                                                       475.09610
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mA                  472.8                 477.2       HC->HC FI 30V Range 4A
4504.11317                                                0.096094999999991
mA                   -2.2                   2.2       Delta : HC->HC FI 30V Range
4A : 475.00
4504.11318                                    Exp= 475.09609   Act= 475.00053
mA                                                    HC->HC MI 30V Range 4A
4504.11319                                                  -0.095562397887363
mA                   -2.2                   2.2       Delta : HC->HC MI 30V Range
4A : 475.00
4504.11320                                                            950.04960
mA                 946.85                953.15       HC->HC FI 30V Range 4A
4504.11321                                                0.049602999999934
mA                   -3.15                  3.15       Delta : HC->HC FI 30V Range
4A : 950.00
4504.11322                                    Exp= 950.04960   Act= 949.97067
mA                                                    HC->HC MI 30V Range 4A
4504.11323                                                  -0.078934520335452
mA                   -3.15                  3.15       Delta : HC->HC MI 30V Range
4A : 950.00
4504.11324                                                           -950.32167
mA                -957.75               -942.25       HC->HC FI 10V Range 10A
4504.11325                                                  -0.321674000000030
mA                   -7.75                  7.75       Delta : HC->HC FI 10V Range
10A : -950.00
4504.11326                                    Exp= -950.32167  Act= -949.98736
mA                                                    HC->HC MI 10V Range 10A
4504.11327                                                0.334317274461910
mA                   -7.75                  7.75       Delta : HC->HC MI 10V Range
10A : -950.00
4504.11328                                                           -474.59739
mA                -480.38               -469.63       HC->HC FI 10V Range 10A
4504.11329                                                0.402611000000036
mA                   -5.375                 5.375      Delta : HC->HC FI 10V Range
10A : -475.00
4504.11330                                    Exp= -474.59739  Act= -474.99362
mA                                                    HC->HC MI 10V Range 10A
4504.11331                                                  -0.396226694840323
mA                   -5.375                 5.375      Delta : HC->HC MI 10V Range
10A : -475.00
4504.11332                                                            -0.03589
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mA                  -3                   3       HC->HC FI 10V Range 10A
4504.11333                                              -0.035886518200000
mA                  -3                   3       Delta : HC->HC FI 10V Range
10A : 0.00
4504.11334                              Exp= -0.03589    Act= -0.03680
mA                                               HC->HC MI 10V Range 10A
4504.11335                                              -0.000909390115980
mA                  -3                   3       Delta : HC->HC MI 10V Range
10A : 0.00
4504.11336                                                      474.69725
mA                469.63               480.38       HC->HC FI 10V Range 10A
4504.11337                                              -0.302750000000003
mA                -5.375                5.375       Delta : HC->HC FI 10V Range
10A : 475.00
4504.11338                              Exp= 474.69725   Act= 474.98323
mA                                               HC->HC MI 10V Range 10A
4504.11339                                               0.285975309282719
mA                -5.375                5.375       Delta : HC->HC MI 10V Range
10A : 475.00
4504.11340                                                      950.24072
mA                942.25               957.75       HC->HC FI 10V Range 10A
4504.11341                                               0.240718999999899
mA                 -7.75                 7.75       Delta : HC->HC FI 10V Range
10A : 950.00
4504.11342                              Exp= 950.24072   Act= 949.89200
mA                                               HC->HC MI 10V Range 10A
4504.11343                                              -0.348719890060693
mA                 -7.75                 7.75       Delta : HC->HC MI 10V Range
10A : 950.00
4504.11344                                                     -950.32167
mA              -954.62              -945.39       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11345                                              -0.321674000000030
mA                -4.615                4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11346                              Exp= -950.32167  Act= -949.98736
mA                                               HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11347                                               0.334317274461910
mA                -4.615                4.615       Delta : HC->HC V/I Mode
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Current Force/Measure with booster check 10V Range 10A : -950.00
4504.11348                                                    -474.59739
mA              -478.81              -471.19       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11349                                                  0.402611000000036
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11350                                 Exp= -474.59739  Act= -474.99362
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11351                                                -0.396226694840323
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : -475.00
4504.11352                                                       -0.03589
mA                   -3                    3       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11353                                                -0.035886518200000
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11354                                 Exp= -0.03589    Act= -0.03680
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11355                                                -0.000909390115980
mA                   -3                    3       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 0.00
4504.11356                                                       474.69725
mA               471.19                478.81       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11357                                                -0.302750000000003
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11358                                 Exp= 474.69725   Act= 474.98323
mA                                                  HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11359                                                  0.285975309282719
mA              -3.8075               3.8075       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 475.00
4504.11360                                                       950.24072
mA               945.39                954.62       HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
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4504.11361                                                  0.240718999999899
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11362                            Exp= 950.24072   Act= 949.89200
mA                                                HC->HC V/I Mode Current
Force/Measure with booster check 10V Range 10A
4504.11363                                                 -0.348719890060693
mA              -4.615              4.615       Delta : HC->HC V/I Mode
Current Force/Measure with booster check 10V Range 10A : 950.00
4504.11364                                                          -950.04113
mA            -953.15            -946.85       HC->HC FI 10V Range 4A
4504.11365                                                 -0.041126999999960
mA               -3.15               3.15       Delta : HC->HC FI 10V Range
4A : -950.00
4504.11366                            Exp= -950.04113  Act= -949.99800
mA                                                HC->HC MI 10V Range 4A
4504.11367                                                  0.043129876715398
mA               -3.15               3.15       Delta : HC->HC MI 10V Range
4A : -950.00
4504.11368                                                       -475.00672
mA              -477.2              -472.8       HC->HC FI 10V Range 4A
4504.11369                                                -0.006717000000037
mA                -2.2                2.2       Delta : HC->HC FI 10V Range
4A : -475.00
4504.11370                            Exp= -475.00672  Act= -474.99748
mA                                                HC->HC MI 10V Range 4A
4504.11371                                                  0.009238865346674
mA                -2.2                2.2       Delta : HC->HC MI 10V Range
4A : -475.00
4504.11372                                                          -0.03104
mA              -1.25                1.25       HC->HC FI 10V Range 4A
4504.11373                                                -0.031038233300000
mA              -1.25                1.25       Delta : HC->HC FI 10V Range
4A : 0.00
4504.11374                            Exp= -0.03104    Act= -0.03019
mA                                                HC->HC MI 10V Range 4A
4504.11375                                                  0.000849082862200
mA              -1.25                1.25       Delta : HC->HC MI 10V Range
4A : 0.00
4504.11376                                                          475.02338
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mA                  472.8                 477.2       HC->HC FI 10V Range 4A
4504.11377                                                0.023377000000039
mA                   -2.2                   2.2       Delta : HC->HC FI 10V Range
4A : 475.00
4504.11378                                  Exp= 475.02338   Act= 475.01039
mA                                                    HC->HC MI 10V Range 4A
4504.11379                                                  -0.012987275060425
mA                   -2.2                   2.2       Delta : HC->HC MI 10V Range
4A : 475.00
4504.11380                                                            950.07381
mA                 946.85                 953.15       HC->HC FI 10V Range 4A
4504.11381                                                0.073813999999970
mA                   -3.15                  3.15       Delta : HC->HC FI 10V Range
4A : 950.00
4504.11382                                  Exp= 950.07381   Act= 949.98628
mA                                                    HC->HC MI 10V Range 4A
4504.11383                                                  -0.087532265986170
mA                   -3.15                  3.15       Delta : HC->HC MI 10V Range
4A : 950.00
4505.10000                                                  HC relays verified
DIB HC Relays Check
4505.10001                                                                    0
status                                          0       DIB HC Relays Check
4505.10002                                  Exp= -9.49939    Act= -9.49949
V                                                     LC->LC MV PGA 100V Range 10X
4505.10003                                                  -0.000099832936986
V              -0.008375             0.008375       Delta : LC->LC MV PGA 100V
Range 10X : -9.50
4505.10004                                  Exp= 0.00032     Act= 0.00020
V                                                     LC->LC MV PGA 100V Range 10X
4505.10005                                                  -0.000116270177881
V                -0.006                0.006       Delta : LC->LC MV PGA 100V
Range 10X : 0.00
4505.10006                                  Exp= 9.50066     Act= 9.50059
V                                                     LC->LC MV PGA 100V Range 10X
4505.10007                                                  -0.000060779195955
V              -0.008375             0.008375       Delta : LC->LC MV PGA 100V
Range 10X : 9.50
4505.10008                                  Exp= -0.94969    Act= -0.94974
V                                                     LC->LC MV PGA 100V Range 100X
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4505.10009                                                  -0.000051925769269
V          -0.0062375          0.0062375       Delta : LC->LC MV PGA 100V
Range 100X : -0.95
4505.10010                          Exp= 0.00029     Act= 0.00023
V                                           LC->LC MV PGA 100V Range 100X
4505.10011                                              -0.000056733259120
V              -0.006               0.006       Delta : LC->LC MV PGA 100V
Range 100X : 0.00
4505.10012                          Exp= 0.95018     Act= 0.95013
V                                           LC->LC MV PGA 100V Range 100X
4505.10013                                              -0.000049752527768
V          -0.0062375          0.0062375       Delta : LC->LC MV PGA 100V
Range 100X : 0.95
4505.10014                          Exp= -2.84993    Act= -2.84997
V                                           LC->LC MV PGA 30V Range 10X
4505.10015                                              -0.000041967545295
V          -0.0027125          0.0027125       Delta : LC->LC MV PGA 30V Range
10X : -2.85
4505.10016                          Exp= 0.00020     Act= 0.00018
V                                           LC->LC MV PGA 30V Range 10X
4505.10017                                              -0.000024686725532
V              -0.002               0.002       Delta : LC->LC MV PGA 30V Range
10X : 0.00
4505.10018                          Exp= 2.85006     Act= 2.85006
V                                           LC->LC MV PGA 30V Range 10X
4505.10019                                              -0.000003529545828
V          -0.0027125           0.0027125       Delta : LC->LC MV PGA 30V Range
10X : 2.85
4505.10020                          Exp= -0.28489    Act= -0.28494
V                                           LC->LC MV PGA 30V Range 100X
4505.10021                                              -0.000046859031944
V         -0.00207125          0.00207125       Delta : LC->LC MV PGA 30V Range
100X : -0.29
4505.10022                          Exp= 0.00021     Act= 0.00017
V                                           LC->LC MV PGA 30V Range 100X
4505.10023                                              -0.000047413262102
V              -0.002               0.002       Delta : LC->LC MV PGA 30V Range
100X : 0.00
4505.10024                          Exp= 0.28503     Act= 0.28499
V                                           LC->LC MV PGA 30V Range 100X
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4505.10025                                                  -0.000041605015990
V          -0.00207125          0.00207125       Delta : LC->LC MV PGA 30V Range
100X : 0.29
4505.10026                              Exp= -0.94998    Act= -0.94999
V                                               LC->LC MV PGA 10V Range 10X
4505.10027                                              -0.000009771660257
V           -0.0008375           0.0008375       Delta : LC->LC MV PGA 10V Range
10X : -0.95
4505.10028                              Exp= 0.00006     Act= 0.00005
V                                               LC->LC MV PGA 10V Range 10X
4505.10029                                              -0.000014902950313
V               -0.0006              0.0006       Delta : LC->LC MV PGA 10V Range
10X : 0.00
4505.10030                              Exp= 0.95001     Act= 0.95001
V                                               LC->LC MV PGA 10V Range 10X
4505.10031                                              -0.000005954011248
V           -0.0008375           0.0008375       Delta : LC->LC MV PGA 10V Range
10X : 0.95
4505.10032                              Exp= -0.09496    Act= -0.09497
V                                               LC->LC MV PGA 10V Range 100X
4505.10033                                              -0.000009892553166
V          -0.00062375          0.00062375       Delta : LC->LC MV PGA 10V Range
100X : -0.10
4505.10034                              Exp= 0.00006     Act= 0.00005
V                                               LC->LC MV PGA 10V Range 100X
4505.10035                                              -0.000006401461709
V               -0.0006              0.0006       Delta : LC->LC MV PGA 10V Range
100X : 0.00
4505.10036                              Exp= 0.09506     Act= 0.09505
V                                               LC->LC MV PGA 10V Range 100X
4505.10037                                              -0.000009672423053
V          -0.00062375          0.00062375       Delta : LC->LC MV PGA 10V Range
100X : 0.10
4505.10038                              Exp= -6.99963    Act= -6.99974
V                                               HC->HC MV PGA 75V Range 10X
4505.10039                                              -0.000112690621070
V            -0.00775             0.00775       Delta : HC->HC MV PGA 75V Range
10X : -7.00
4505.10040                              Exp= 0.00028     Act= 0.00019
V                                               HC->HC MV PGA 75V Range 10X
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4505.10041                                                  -0.000083987072893
V              -0.006              0.006       Delta : HC->HC MV PGA 75V Range
10X : 0.00
4505.10042                          Exp= 7.00076     Act= 7.00070
V                                               HC->HC MV PGA 75V Range 10X
4505.10043                                          -0.000058623118449
V             -0.00775            0.00775       Delta : HC->HC MV PGA 75V Range
10X : 7.00
4505.10044                          Exp= -0.69970    Act= -0.69981
V                                               HC->HC MV PGA 75V Range 100X
4505.10045                                          -0.000104794385886
V            -0.003175           0.003175       Delta : HC->HC MV PGA 75V Range
100X : -0.70
4505.10046                          Exp= 0.00024     Act= 0.00017
V                                               HC->HC MV PGA 75V Range 100X
4505.10047                                          -0.000069627917509
V              -0.003              0.003       Delta : HC->HC MV PGA 75V Range
100X : 0.00
4505.10048                          Exp= 0.70087     Act= 0.70079
V                                               HC->HC MV PGA 75V Range 100X
4505.10049                                          -0.000086822310674
V            -0.003175           0.003175       Delta : HC->HC MV PGA 75V Range
100X : 0.70
4505.10050                          Exp= -2.79995    Act= -2.79998
V                                               HC->HC MV PGA 30V Range 10X
4505.10051                                          -0.000026593269698
V              -0.0027             0.0027       Delta : HC->HC MV PGA 30V Range
10X : -2.80
4505.10052                          Exp= 0.00018     Act= 0.00015
V                                               HC->HC MV PGA 30V Range 10X
4505.10053                                          -0.000028014769965
V              -0.002              0.002       Delta : HC->HC MV PGA 30V Range
10X : 0.00
4505.10054                          Exp= 2.80003     Act= 2.80002
V                                               HC->HC MV PGA 30V Range 10X
4505.10055                                          -0.000009122063288
V              -0.0027             0.0027       Delta : HC->HC MV PGA 30V Range
10X : 2.80
4505.10056                          Exp= -0.27980    Act= -0.27984
V                                               HC->HC MV PGA 30V Range 100X
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4505.10057                                                    -0.000036783221109
V             -0.00107              0.00107       Delta : HC->HC MV PGA 30V Range
100X : -0.28
4505.10058                                Exp= 0.00018     Act= 0.00012
V                                                 HC->HC MV PGA 30V Range 100X
4505.10059                                                    -0.000060044836735
V               -0.001                0.001       Delta : HC->HC MV PGA 30V Range
100X : 0.00
4505.10060                                Exp= 0.28014     Act= 0.28008
V                                                 HC->HC MV PGA 30V Range 100X
4505.10061                                                    -0.000058284402170
V             -0.00107              0.00107       Delta : HC->HC MV PGA 30V Range
100X : 0.28
4505.10062                                Exp= -0.84995    Act= -0.84998
V                                                 HC->HC MV PGA 10V Range 10X
4505.10063                                                    -0.000028262703910
V           -0.0008125            0.0008125       Delta : HC->HC MV PGA 10V Range
10X : -0.85
4505.10064                                Exp= 0.00005     Act= 0.00003
V                                                 HC->HC MV PGA 10V Range 10X
4505.10065                                                    -0.000016946207504
V              -0.0006               0.0006       Delta : HC->HC MV PGA 10V Range
10X : 0.00
4505.10066                                Exp= 0.85003     Act= 0.85002
V                                                 HC->HC MV PGA 10V Range 10X
4505.10067                                                    -0.000011732988403
V           -0.0008125            0.0008125       Delta : HC->HC MV PGA 10V Range
10X : 0.85
4505.10068                                Exp= -0.08499    Act= -0.08500
V                                                 HC->HC MV PGA 10V Range 100X
4505.10069                                                    -0.000015650029687
V          -0.00032125           0.00032125       Delta : HC->HC MV PGA 10V Range
100X : -0.09
4505.10070                                Exp= 0.00004     Act= 0.00004
V                                                 HC->HC MV PGA 10V Range 100X
4505.10071                                                    -0.000006482723321
V              -0.0003               0.0003       Delta : HC->HC MV PGA 10V Range
100X : 0.00
4505.10072                                Exp= 0.08505     Act= 0.08504
V                                                 HC->HC MV PGA 10V Range 100X
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4505.10073                                                  -0.000017825532525
V          -0.00032125          0.00032125       Delta : HC->HC MV PGA 10V Range
100X : 0.09
4506.10000                                                  HC relays verified
DIB HC Relays Check
4506.10001                                                                  0
status                                          0       DIB HC Relays Check
4506.10002                                Exp= -0.80001    Act= -0.80001
V                                                  MV Pedestal LC 0V Pedestal
4506.10003                                                  -0.000002321034923
V             -0.00033             0.00033       Delta : MV Pedestal LC 0V
Pedestal : -0.80
4506.10004                                Exp= -0.40001    Act= -0.40001
V                                                  MV Pedestal LC 0V Pedestal
4506.10005                                                  -0.000003754339070
V             -0.00029             0.00029       Delta : MV Pedestal LC 0V
Pedestal : -0.40
4506.10006                                Exp= 0.00005     Act= 0.00004
V                                                  MV Pedestal LC 0V Pedestal
4506.10007                                                  -0.000007561427701
V             -0.00025             0.00025       Delta : MV Pedestal LC 0V
Pedestal : 0.00
4506.10008                                Exp= 0.40007     Act= 0.40006
V                                                  MV Pedestal LC 0V Pedestal
4506.10009                                                  -0.000010125686859
V             -0.00029             0.00029       Delta : MV Pedestal LC 0V
Pedestal : 0.40
4506.10010                                Exp= 0.80007     Act= 0.80008
V                                                  MV Pedestal LC 0V Pedestal
4506.10011                                                   0.000003085317186
V             -0.00033             0.00033       Delta : MV Pedestal LC 0V
Pedestal : 0.80
4506.10012                                Exp= 0.30002     Act= 0.30002
V                                                  MV Pedestal LC 1V Pedestal
4506.10013                                                  -0.000001569692309
V             -0.00028             0.00028       Delta : MV Pedestal LC 1V
Pedestal : 0.30
4506.10014                                Exp= 0.60012     Act= 0.60012
V                                                  MV Pedestal LC 1V Pedestal
4506.10015                                                  -0.000001542806408
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V              -0.00031              0.00031       Delta : MV Pedestal LC 1V
Pedestal : 0.60
4506.10016                                 Exp= 1.00016     Act= 1.00015
V                                                 MV Pedestal LC 1V Pedestal
4506.10017                                                -0.000004762487639
V              -0.00035              0.00035       Delta : MV Pedestal LC 1V
Pedestal : 1.00
4506.10018                                 Exp= 1.30012     Act= 1.30012
V                                                 MV Pedestal LC 1V Pedestal
4506.10019                                                -0.000000910012463
V              -0.00038              0.00038       Delta : MV Pedestal LC 1V
Pedestal : 1.30
4506.10020                                 Exp= 1.70016     Act= 1.70014
V                                                 MV Pedestal LC 1V Pedestal
4506.10021                                                -0.000023648597457
V              -0.00042              0.00042       Delta : MV Pedestal LC 1V
Pedestal : 1.70
4506.10022                                 Exp= 2.40019     Act= 2.40017
V                                                 MV Pedestal LC 3V Pedestal
4506.10023                                                -0.000020476863392
V              -0.00049              0.00049       Delta : MV Pedestal LC 3V
Pedestal : 2.40
4506.10024                                 Exp= 2.70020     Act= 2.70020
V                                                 MV Pedestal LC 3V Pedestal
4506.10025                                                 0.000001651271782
V              -0.00052              0.00052       Delta : MV Pedestal LC 3V
Pedestal : 2.70
4506.10026                                 Exp= 3.00021     Act= 3.00021
V                                                 MV Pedestal LC 3V Pedestal
4506.10027                                                 0.000008347740831
V              -0.00055              0.00055       Delta : MV Pedestal LC 3V
Pedestal : 3.00
4506.10028                                 Exp= 3.30017     Act= 3.30019
V                                                 MV Pedestal LC 3V Pedestal
4506.10029                                                 0.000010835689101
V              -0.00058              0.00058       Delta : MV Pedestal LC 3V
Pedestal : 3.30
4506.10030                                 Exp= 3.60018     Act= 3.60019
V                                                 MV Pedestal LC 3V Pedestal
4506.10031                                                 0.000008868973054
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V              -0.00061              0.00061       Delta : MV Pedestal LC 3V
Pedestal : 3.60
4506.10032                                 Exp= 4.30020     Act= 4.30020
V                                                 MV Pedestal LC 5V Pedestal
4506.10033                                                 0.000000744325774
V              -0.00068              0.00068       Delta : MV Pedestal LC 5V
Pedestal : 4.30
4506.10034                                 Exp= 4.60021     Act= 4.60021
V                                                 MV Pedestal LC 5V Pedestal
4506.10035                                                -0.000001051686607
V              -0.00071              0.00071       Delta : MV Pedestal LC 5V
Pedestal : 4.60
4506.10036                                 Exp= 5.00026     Act= 5.00027
V                                                 MV Pedestal LC 5V Pedestal
4506.10037                                                 0.000007107794973
V              -0.00075              0.00075       Delta : MV Pedestal LC 5V
Pedestal : 5.00
4506.10038                                 Exp= 5.30023     Act= 5.30023
V                                                 MV Pedestal LC 5V Pedestal
4506.10039                                                -0.000002621601240
V              -0.00078              0.00078       Delta : MV Pedestal LC 5V
Pedestal : 5.30
4506.10040                                 Exp= 5.70027     Act= 5.70027
V                                                 MV Pedestal LC 5V Pedestal
4506.10041                                                 0.000007019931013
V              -0.00082              0.00082       Delta : MV Pedestal LC 5V
Pedestal : 5.70
4507.11000                                                HC relays verified
DIB HC Relays Check
4507.11001                                                                  0
status                                          0       DIB HC Relays Check
4507.11002                                 Exp= -47.49053   Act= -47.48908
mA                                                 LC->LC MI PGA 100V Range 500mA
10X
4507.11003                                                 0.001445233683114
mA              -0.08375              0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : -47.50
4507.11004                                 Exp= 0.00923     Act= 0.01043
mA                                                 LC->LC MI PGA 100V Range 500mA
10X
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4507.11005                                                    0.001208224319841
mA                -0.06                0.06       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 0.00
4507.11006                              Exp= 47.50889    Act= 47.51031
mA                                              LC->LC MI PGA 100V Range 500mA
10X
4507.11007                                                    0.001425974109409
mA             -0.08375             0.08375       Delta : LC->LC MI PGA 100V
Range 500mA 10X : 47.50
4507.11008                              Exp= -4.74102    Act= -4.73938
mA                                              LC->LC MI PGA 100V Range 500mA
100X
4507.11009                                                    0.001647449980289
mA            -0.062375            0.062375       Delta : LC->LC MI PGA 100V
Range 500mA 100X : -4.75
4507.11010                              Exp= 0.00948     Act= 0.01093
mA                                              LC->LC MI PGA 100V Range 500mA
100X
4507.11011                                                    0.001447766476158
mA                -0.06                0.06       Delta : LC->LC MI PGA 100V
Range 500mA 100X : 0.00
4507.11012                              Exp= 4.75948     Act= 4.76077
mA                                              LC->LC MI PGA 100V Range 500mA
100X
4507.11013                                                    0.001288765874834
mA            -0.062375            0.062375       Delta : LC->LC MI PGA 100V
Range 500mA 100X : 4.75
4507.11014                              Exp= -94.99388   Act= -94.99156
mA                                              LC->LC MI PGA 30V Range 1A 10X
4507.11015                                                    0.002322842341229
mA              -0.1075               0.1075       Delta : LC->LC MI PGA 30V
Range 1A 10X : -95.00
4507.11016                              Exp= 0.00474     Act= 0.00693
mA                                              LC->LC MI PGA 30V Range 1A 10X
4507.11017                                                    0.002186227520323
mA                -0.06                0.06       Delta : LC->LC MI PGA 30V
Range 1A 10X : 0.00
4507.11018                              Exp= 95.00619    Act= 95.00914
mA                                              LC->LC MI PGA 30V Range 1A 10X
4507.11019                                                    0.002942492094959
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mA                -0.1075                0.1075        Delta : LC->LC MI PGA 30V
Range 1A 10X : 95.00
4507.11020                                    Exp= -9.49309    Act= -9.48961
mA                                                LC->LC MI PGA 30V Range 1A
100X
4507.11021                                                     0.003481005099864
mA              -0.06475              0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : -9.50
4507.11022                                    Exp= 0.00628     Act= 0.00830
mA                                                LC->LC MI PGA 30V Range 1A
100X
4507.11023                                                     0.002019188643572
mA                  -0.06                 0.06        Delta : LC->LC MI PGA 30V
Range 1A 100X : 0.00
4507.11024                                    Exp= 9.50735     Act= 9.50916
mA                                                LC->LC MI PGA 30V Range 1A
100X
4507.11025                                                     0.001808089347660
mA              -0.06475              0.06475       Delta : LC->LC MI PGA 30V
Range 1A 100X : 9.50
4507.11026                                    Exp= -9.49906    Act= -9.49891
mA                                                LC->LC MI PGA 30V Range 100mA
10X
4507.11027                                                     0.000150926932884
mA              -0.01075              0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : -9.50
4507.11028                                    Exp= 0.00089     Act= 0.00093
mA                                                LC->LC MI PGA 30V Range 100mA
10X
4507.11029                                                     0.000037318815782
mA                -0.006                0.006       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 0.00
4507.11030                                    Exp= 9.50076     Act= 9.50069
mA                                                LC->LC MI PGA 30V Range 100mA
10X
4507.11031                                                    -0.000074055706913
mA              -0.01075              0.01075       Delta : LC->LC MI PGA 30V
Range 100mA 10X : 9.50
4507.11032                                    Exp= -949.19256  Act= -949.18263
uA                                                LC->LC MI PGA 30V Range 100mA
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100X
4507.11033                                                  0.009930986851714
uA                -6.475              6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : -950.00
4507.11034                                 Exp= 0.94890     Act= 1.02152
uA                                                 LC->LC MI PGA 30V Range 100mA
100X
4507.11035                                                  0.072612182246395
uA                   -6                  6       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 0.00
4507.11036                                 Exp= 950.90611   Act= 950.91086
uA                                                 LC->LC MI PGA 30V Range 100mA
100X
4507.11037                                                  0.004751607305479
uA                -6.475              6.475       Delta : LC->LC MI PGA 30V
Range 100mA 100X : 950.00
4507.11038                                 Exp= -949.87056  Act= -949.89014
uA                                                 LC->LC MI PGA 30V Range 10mA
10X
4507.11039                                                 -0.019573089871528
uA                -1.075              1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : -950.00
4507.11040                                 Exp= 0.07728     Act= 0.08365
uA                                                 LC->LC MI PGA 30V Range 10mA
10X
4507.11041                                                  0.006371836126700
uA                  -0.6                0.6       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 0.00
4507.11042                                 Exp= 950.10895   Act= 950.11530
uA                                                 LC->LC MI PGA 30V Range 10mA
10X
4507.11043                                                  0.006348411675162
uA                -1.075              1.075       Delta : LC->LC MI PGA 30V
Range 10mA 10X : 950.00
4507.11044                                 Exp= -189.98513  Act= -189.98571
mA                                                 LC->LC MI PGA 10V Range 2A 10X
4507.11045                                                 -0.000578847712205
mA                 -0.22               0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : -190.00
4507.11046                                 Exp= 0.01066     Act= 0.01006
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mA                                                  LC->LC MI PGA 10V Range 2A 10X
4507.11047                                                -0.000604606579742
mA              -0.125              0.125       Delta : LC->LC MI PGA 10V
Range 2A 10X : 0.00
4507.11048                                  Exp= 190.00281   Act= 190.00383
mA                                                  LC->LC MI PGA 10V Range 2A 10X
4507.11049                                                0.001018457564953
mA               -0.22               0.22       Delta : LC->LC MI PGA 10V
Range 2A 10X : 190.00
4507.11050                                  Exp= -18.98033   Act= -18.98062
mA                                                  LC->LC MI PGA 10V Range 2A
100X
4507.11051                                                -0.000289299539364
mA              -0.1345             0.1345      Delta : LC->LC MI PGA 10V
Range 2A 100X : -19.00
4507.11052                                  Exp= 0.02020     Act= 0.02043
mA                                                  LC->LC MI PGA 10V Range 2A
100X
4507.11053                                                0.000235762685354
mA               -0.125              0.125       Delta : LC->LC MI PGA 10V
Range 2A 100X : 0.00
4507.11054                                  Exp= 19.01826    Act= 19.01853
mA                                                  LC->LC MI PGA 10V Range 2A
100X
4507.11055                                                0.000270090587524
mA              -0.1345             0.1345      Delta : LC->LC MI PGA 10V
Range 2A 100X : 19.00
4507.11056                                  Exp= -18.99040   Act= -18.99057
mA                                                  LC->LC MI PGA 10V Range 200mA
10X
4507.11057                                                -0.000176483001340
mA              -0.0215             0.0215      Delta : LC->LC MI PGA 10V
Range 200mA 10X : -19.00
4507.11058                                  Exp= 0.01011     Act= 0.01005
mA                                                  LC->LC MI PGA 10V Range 200mA
10X
4507.11059                                                -0.000058801935077
mA               -0.012              0.012       Delta : LC->LC MI PGA 10V
Range 200mA 10X : 0.00
4507.11060                                  Exp= 19.01041    Act= 19.01012
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mA                                                  LC->LC MI PGA 10V Range 200mA
10X
4507.11061                                                  -0.000289645120095
mA              -0.0215             0.0215      Delta : LC->LC MI PGA 10V
Range 200mA 10X : 19.00
4507.11062                              Exp= -1.88975    Act= -1.88972
mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11063                                                  0.000030220190414
mA             -0.01295             0.01295      Delta : LC->LC MI PGA 10V
Range 200mA 100X : -1.90
4507.11064                              Exp= 0.01058     Act= 0.01062
mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11065                                                  0.000044280880379
mA               -0.012              0.012      Delta : LC->LC MI PGA 10V
Range 200mA 100X : 0.00
4507.11066                              Exp= 1.91060     Act= 1.91074
mA                                                  LC->LC MI PGA 10V Range 200mA
100X
4507.11067                                                  0.000142763908002
mA             -0.01295             0.01295      Delta : LC->LC MI PGA 10V
Range 200mA 100X : 1.90
4507.11068                              Exp= -1.89942    Act= -1.89944
mA                                                  LC->LC MI PGA 10V Range 20mA
10X
4507.11069                                                  -0.000023010599455
mA             -0.00215             0.00215      Delta : LC->LC MI PGA 10V
Range 20mA 10X : -1.90
4507.11070                              Exp= 0.00058     Act= 0.00059
mA                                                  LC->LC MI PGA 10V Range 20mA
10X
4507.11071                                                  0.000006962356487
mA              -0.0012              0.0012      Delta : LC->LC MI PGA 10V
Range 20mA 10X : 0.00
4507.11072                              Exp= 1.90057     Act= 1.90060
mA                                                  LC->LC MI PGA 10V Range 20mA
10X
4507.11073                                                  0.000033589255508
mA             -0.00215             0.00215      Delta : LC->LC MI PGA 10V
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Range 20mA 10X : 1.90
4507.11074                                  Exp= -668.44562  Act= -668.25590
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11075                                                  0.189713082418507
mA              -18.325             18.325      Delta : HC->HC MI PGA 75V
Range 100A 10X : -665.00
4507.11076                                  Exp= -5.65105    Act= -5.41593
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11077                                                  0.235120484125254
mA                  -15                 15      Delta : HC->HC MI PGA 75V
Range 100A 10X : 0.00
4507.11078                                  Exp= 657.56011   Act= 657.68393
mA                                                  HC->HC MI PGA 75V Range 100A
10X
4507.11079                                                  0.123820838723987
mA              -18.325             18.325      Delta : HC->HC MI PGA 75V
Range 100A 10X : 665.00
4507.11080                                  Exp= -668.45724  Act= -668.07059
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11081                                                  0.386653093689915
mA              -10.825             10.825      Delta : HC->HC MI PGA 75V
Range 100A 100X : -665.00
4507.11082                                  Exp= -5.52202    Act= -5.20233
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11083                                                  0.319688726668852
mA                -7.5                7.5       Delta : HC->HC MI PGA 75V
Range 100A 100X : 0.00
4507.11084                                   Exp= 657.53686   Act= 657.90018
mA                                                  HC->HC MI PGA 75V Range 100A
100X
4507.11085                                                  0.363317770594335
mA              -10.825             10.825      Delta : HC->HC MI PGA 75V
Range 100A 100X : 665.00
4507.11086                                  Exp= -665.36474  Act= -665.37512
mA                                                  HC->HC MI PGA 75V Range 10A
10X
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4507.11087 -0.010381716117195
mA -4.825 4.825 Delta : HC->HC MI PGA 75V
Range 10A 10X : -665.00
4507.11088 Exp= -0.07276 Act= -0.00509
mA HC->HC MI PGA 75V Range 10A
10X
4507.11089 0.067676110534577
mA -1.5 1.5 Delta : HC->HC MI PGA 75V
Range 10A 10X : 0.00
4507.11090 Exp= 665.38686 Act= 665.34567
mA HC->HC MI PGA 75V Range 10A
10X
4507.11091 -0.041187833552272
mA -4.825 4.825 Delta : HC->HC MI PGA 75V
Range 10A 10X : 665.00
4507.11092 Exp= -665.36474 Act= -665.37512
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11093 -0.010381716117195
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : -665.00
4507.11094 Exp= -0.07276 Act= -0.00509
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11095 0.067676110534577
mA -1.5 1.5 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 0.00
4507.11096 Exp= 665.38686 Act= 665.34567
mA HC->HC MI With booster
improved cal check 75V Range 10A 10X
4507.11097 -0.041187833552272
mA -2.6305 2.6305 Delta : HC->HC MI With booster
improved cal check 75V Range 10A 10X : 665.00
4507.11098 Exp= -66.51931 Act= -66.50697
mA HC->HC MI PGA 75V Range 10A
100X
4507.11099 0.012340775107447
mA -1.0825 1.0825 Delta : HC->HC MI PGA 75V
Range 10A 100X : -66.50
4507.11100 Exp= -0.08192 Act= -0.08027

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mA                                                  HC->HC MI PGA 75V Range 10A
100X
4507.11101                                                  0.001646517944139
mA                -0.75                0.75       Delta : HC->HC MI PGA 75V
Range 10A 100X : 0.00
4507.11102                                Exp= 66.25234    Act= 66.25543
mA                                                  HC->HC MI PGA 75V Range 10A
100X
4507.11103                                                  0.003099071742156
mA              -1.0825              1.0825       Delta : HC->HC MI PGA 75V
Range 10A 100X : 66.50
4507.11104                                Exp= -66.51931   Act= -66.50697
mA                                                  HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11105                                                  0.012340775107447
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : -66.50
4507.11106                                Exp= -0.08192    Act= -0.08027
mA                                                  HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11107                                                  0.001646517944139
mA                -0.75                0.75       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 0.00
4507.11108                                Exp= 66.25234    Act= 66.25543
mA                                                  HC->HC MI With booster
improved cal check 75V Range 10A 100X
4507.11109                                                  0.003099071742156
mA             -0.86305             0.86305       Delta : HC->HC MI With booster
improved cal check 75V Range 10A 100X : 66.50
4507.11110                                Exp= -266.08780  Act= -266.09776
mA                                                  HC->HC MI PGA 75V Range 4A 10X
4507.11111                                                 -0.009957743236100
mA              -1.157               1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : -266.00
4507.11112                                Exp= -0.03122    Act= -0.01054
mA                                                  HC->HC MI PGA 75V Range 4A 10X
4507.11113                                                  0.020679329687505
mA               -0.625               0.625       Delta : HC->HC MI PGA 75V
Range 4A 10X : 0.00
4507.11114                                Exp= 266.04845   Act= 266.03434
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mA                                                  HC->HC MI PGA 75V Range 4A 10X
4507.11115                                                -0.014103903263788
mA              -1.157              1.157       Delta : HC->HC MI PGA 75V
Range 4A 10X : 266.00
4507.11116                          Exp= -26.61215   Act= -26.60275
mA                                  HC->HC MI PGA 75V Range 4A
100X
4507.11117                                          0.009398471303420
mA              -0.3652             0.3652      Delta : HC->HC MI PGA 75V
Range 4A 100X : -26.60
4507.11118                          Exp= -0.02511    Act= -0.01677
mA                                  HC->HC MI PGA 75V Range 4A
100X
4507.11119                                          0.008341337039919
mA               -0.312              0.312      Delta : HC->HC MI PGA 75V
Range 4A 100X : 0.00
4507.11120                          Exp= 26.55209    Act= 26.56121
mA                                  HC->HC MI PGA 75V Range 4A
100X
4507.11121                                          0.009122186986403
mA              -0.3652             0.3652      Delta : HC->HC MI PGA 75V
Range 4A 100X : 26.60
4507.11122                          Exp= -668.47175  Act= -668.23006
mA                                  HC->HC MI PGA 30V Range 100A
10X
4507.11123                                          0.241694281335413
mA              -18.325             18.325      Delta : HC->HC MI PGA 30V
Range 100A 10X : -665.00
4507.11124                          Exp= -5.52049    Act= -5.32961
mA                                  HC->HC MI PGA 30V Range 100A
10X
4507.11125                                          0.190872721049845
mA                -15               15          Delta : HC->HC MI PGA 30V
Range 100A 10X : 0.00
4507.11126                          Exp= 657.54086   Act= 657.83829
mA                                  HC->HC MI PGA 30V Range 100A
10X
4507.11127                                          0.297429257292947
mA              -18.325             18.325      Delta : HC->HC MI PGA 30V
Range 100A 10X : 665.00
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4507.11128 Exp= -668.30909 Act= -668.08837
mA HC->HC MI PGA 30V Range 100A
100X
4507.11129 0.220722563886284
mA -10.825 10.825 Delta : HC->HC MI PGA 30V
Range 100A 100X : -665.00
4507.11130 Exp= -5.45505 Act= -5.20670
mA HC->HC MI PGA 30V Range 100A
100X
4507.11131 0.248355146920942
mA -7.5 7.5 Delta : HC->HC MI PGA 30V
Range 100A 100X : 0.00
4507.11132 Exp= 657.69598 Act= 657.87396
mA HC->HC MI PGA 30V Range 100A
100X
4507.11133 0.177978395297146
mA -10.825 10.825 Delta : HC->HC MI PGA 30V
Range 100A 100X : 665.00
4507.11134 Exp= -665.33110 Act= -665.34388
mA HC->HC MI PGA 30V Range 10A
10X
4507.11135 -0.012782001732830
mA -4.825 4.825 Delta : HC->HC MI PGA 30V
Range 10A 10X : -665.00
4507.11136 Exp= -0.04741 Act= 0.02763
mA HC->HC MI PGA 30V Range 10A
10X
4507.11137 0.075035558896662
mA -1.5 1.5 Delta : HC->HC MI PGA 30V
Range 10A 10X : 0.00
4507.11138 Exp= 665.32099 Act= 665.30401
mA HC->HC MI PGA 30V Range 10A
10X
4507.11139 -0.016985656889233
mA -4.825 4.825 Delta : HC->HC MI PGA 30V
Range 10A 10X : 665.00
4507.11140 Exp= -665.33110 Act= -665.34388
mA HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11141 -0.012782001732830

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mA              -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : -665.00
4507.11142                                  Exp= -0.04741    Act= 0.02763
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11143                                                  0.075035558896662
mA                 -1.5                  1.5       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 0.00
4507.11144                                  Exp= 665.32099   Act= 665.30401
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 10X
4507.11145                                                 -0.016985656889233
mA              -2.6305               2.6305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 10X : 665.00
4507.11146                                  Exp= -66.48494   Act= -66.47933
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11147                                                  0.005607424146447
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : -66.50
4507.11148                                  Exp= -0.04915    Act= -0.05705
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11149                                                 -0.007898038715268
mA                -0.75                 0.75       Delta : HC->HC MI PGA 30V
Range 10A 100X : 0.00
4507.11150                                  Exp= 66.27435    Act= 66.27666
mA                                                HC->HC MI PGA 30V Range 10A
100X
4507.11151                                                  0.002310287123876
mA              -1.0825               1.0825       Delta : HC->HC MI PGA 30V
Range 10A 100X : 66.50
4507.11152                                  Exp= -66.48494   Act= -66.47933
mA                                                HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11153                                                  0.005607424146447
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : -66.50
4507.11154                                  Exp= -0.04915    Act= -0.05705
mA                                                HC->HC MI With booster
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improved cal check 30V Range 10A 100X
4507.11155                                                  -0.007898038715268
mA                -0.75                  0.75       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 0.00
4507.11156                                  Exp= 66.27435    Act= 66.27666
mA                                                  HC->HC MI With booster
improved cal check 30V Range 10A 100X
4507.11157                                                   0.002310287123876
mA             -0.86305              0.86305       Delta : HC->HC MI With booster
improved cal check 30V Range 10A 100X : 66.50
4507.11158                                  Exp= -266.09129  Act= -266.07150
mA                                                  HC->HC MI PGA 30V Range 4A 10X
4507.11159                                                   0.019786960308863
mA               -1.157                 1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : -266.00
4507.11160                                  Exp= -0.02259    Act= -0.00153
mA                                                  HC->HC MI PGA 30V Range 4A 10X
4507.11161                                                   0.021064373815155
mA               -0.625                 0.625       Delta : HC->HC MI PGA 30V
Range 4A 10X : 0.00
4507.11162                                  Exp= 266.05454   Act= 266.02762
mA                                                  HC->HC MI PGA 30V Range 4A 10X
4507.11163                                                  -0.026924683257676
mA               -1.157                 1.157       Delta : HC->HC MI PGA 30V
Range 4A 10X : 266.00
4507.11164                                  Exp= -26.59982   Act= -26.59302
mA                                                  HC->HC MI PGA 30V Range 4A
100X
4507.11165                                                   0.006802955321039
mA              -0.3652               0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : -26.60
4507.11166                                  Exp= -0.01693    Act= -0.00954
mA                                                  HC->HC MI PGA 30V Range 4A
100X
4507.11167                                                   0.007390648631326
mA               -0.312                 0.312       Delta : HC->HC MI PGA 30V
Range 4A 100X : 0.00
4507.11168                                  Exp= 26.55871    Act= 26.56774
mA                                                  HC->HC MI PGA 30V Range 4A
100X
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4507.11169                                                    0.009036831293290
mA              -0.3652              0.3652       Delta : HC->HC MI PGA 30V
Range 4A 100X : 26.60
4507.11170                        Exp= -668.53148  Act= -668.25310
mA                                         HC->HC MI PGA 10V Range 100A
10X
4507.11171                                                    0.278377611820815
mA              -18.325              18.325       Delta : HC->HC MI PGA 10V
Range 100A 10X : -665.00
4507.11172                        Exp= -5.52168    Act= -5.40324
mA                                         HC->HC MI PGA 10V Range 100A
10X
4507.11173                                                    0.118438177231176
mA                 -15                15         Delta : HC->HC MI PGA 10V
Range 100A 10X : 0.00
4507.11174                        Exp= 657.52974   Act= 657.70012
mA                                         HC->HC MI PGA 10V Range 100A
10X
4507.11175                                                    0.170377290575061
mA              -18.325              18.325       Delta : HC->HC MI PGA 10V
Range 100A 10X : 665.00
4507.11176                        Exp= -668.38312  Act= -668.17397
mA                                         HC->HC MI PGA 10V Range 100A
100X
4507.11177                                                    0.209150765043205
mA              -10.825              10.825       Delta : HC->HC MI PGA 10V
Range 100A 100X : -665.00
4507.11178                        Exp= -5.54108    Act= -5.30046
mA                                         HC->HC MI PGA 10V Range 100A
100X
4507.11179                                                    0.240625636124544
mA                -7.5                 7.5        Delta : HC->HC MI PGA 10V
Range 100A 100X : 0.00
4507.11180                        Exp= 657.56223   Act= 657.74797
mA                                         HC->HC MI PGA 10V Range 100A
100X
4507.11181                                                    0.185741453015225
mA              -10.825              10.825       Delta : HC->HC MI PGA 10V
Range 100A 100X : 665.00
4507.11182                        Exp= -664.66927  Act= -664.68535
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mA                                                    HC->HC MI PGA 10V Range 10A
10X
4507.11183                                                  -0.016070063213078
mA              -4.825              4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : -665.00
4507.11184                          Exp= 0.00583     Act= 0.11039
mA                                                    HC->HC MI PGA 10V Range 10A
10X
4507.11185                                                   0.104560218789506
mA                -1.5                1.5       Delta : HC->HC MI PGA 10V
Range 10A 10X : 0.00
4507.11186                          Exp= 664.97907   Act= 664.89258
mA                                                    HC->HC MI PGA 10V Range 10A
10X
4507.11187                                                  -0.086490139788111
mA              -4.825              4.825       Delta : HC->HC MI PGA 10V
Range 10A 10X : 665.00
4507.11188                          Exp= -664.66927  Act= -664.68535
mA                                                    HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11189                                                  -0.016070063213078
mA             -2.6305            2.6305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : -665.00
4507.11190                          Exp= 0.00583     Act= 0.11039
mA                                                    HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11191                                                   0.104560218789506
mA              -1.5                1.5       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 0.00
4507.11192                          Exp= 664.97907   Act= 664.89258
mA                                                    HC->HC MI With booster
improved cal check 10V Range 10A 10X
4507.11193                                                  -0.086490139788111
mA             -2.6305            2.6305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 10X : 665.00
4507.11194                          Exp= -66.42123   Act= -66.40444
mA                                                    HC->HC MI PGA 10V Range 10A
100X
4507.11195                                                   0.016789071050425
mA             -1.0825            1.0825       Delta : HC->HC MI PGA 10V
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Range 10A 100X : -66.50
4507.11196                              Exp= -0.00307    Act= 0.01190
mA                                              HC->HC MI PGA 10V Range 10A
100X
4507.11197                                              0.014973441763092
mA              -0.75              0.75       Delta : HC->HC MI PGA 10V
Range 10A 100X : 0.00
4507.11198                              Exp= 66.41272    Act= 66.41639
mA                                              HC->HC MI PGA 10V Range 10A
100X
4507.11199                                              0.003661699607619
mA             -1.0825            1.0825       Delta : HC->HC MI PGA 10V
Range 10A 100X : 66.50
4507.11200                              Exp= -66.42123   Act= -66.40444
mA                                              HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11201                                              0.016789071050425
mA             -0.86305            0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : -66.50
4507.11202                              Exp= -0.00307    Act= 0.01190
mA                                              HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11203                                              0.014973441763092
mA              -0.75              0.75       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 0.00
4507.11204                              Exp= 66.41272    Act= 66.41639
mA                                              HC->HC MI With booster
improved cal check 10V Range 10A 100X
4507.11205                                              0.003661699607619
mA             -0.86305            0.86305       Delta : HC->HC MI With booster
improved cal check 10V Range 10A 100X : 66.50
4507.11206                              Exp= -266.02869  Act= -266.01574
mA                                              HC->HC MI PGA 10V Range 4A 10X
4507.11207                                              0.012945933180674
mA              -1.157             1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : -266.00
4507.11208                              Exp= -0.03510    Act= -0.01508
mA                                              HC->HC MI PGA 10V Range 4A 10X
4507.11209                                              0.020017969717484
mA              -0.625             0.625       Delta : HC->HC MI PGA 10V
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Range 4A 10X : 0.00
4507.11210                                  Exp= 265.98673   Act= 265.97828
mA                                              HC->HC MI PGA 10V Range 4A 10X
4507.11211                                            -0.008445436687680
mA              -1.157              1.157       Delta : HC->HC MI PGA 10V
Range 4A 10X : 266.00
4507.11212                                  Exp= -26.58847   Act= -26.57902
mA                                              HC->HC MI PGA 10V Range 4A
100X
4507.11213                                             0.009441217674656
mA              -0.3652             0.3652      Delta : HC->HC MI PGA 10V
Range 4A 100X : -26.60
4507.11214                                  Exp= -0.02885    Act= -0.01750
mA                                              HC->HC MI PGA 10V Range 4A
100X
4507.11215                                             0.011349613526176
mA               -0.312              0.312      Delta : HC->HC MI PGA 10V
Range 4A 100X : 0.00
4507.11216                                  Exp= 26.55994    Act= 26.56959
mA                                              HC->HC MI PGA 10V Range 4A
100X
4507.11217                                             0.009655689858512
mA              -0.3652             0.3652      Delta : HC->HC MI PGA 10V
Range 4A 100X : 26.60
4508.10000                                           HC relays verified
DIB HC Relays Check
4508.10001                                                            0
status                                      0       DIB HC Relays Check
4508.10002                                    Measure the HV 20V divider
External HV Source Calibration Factors
4508.10003                                                            0
status                                      0       External HV Source
Calibration Factors
4508.10004                                    Measure the HV 200V divider
External HV Source Calibration Factors
4508.10005                                                            0
status                                      0       External HV Source
Calibration Factors
4508.10006                                           Measure 2000V path
External HV Source Calibration Factors
```

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4508.10007                                                              0
status                                      0       External HV Source
Calibration Factors
4508.10008                                                  Measure ATTEN_2
External HV Source Calibration Factors
4508.10009                                                              0
status                                      0       External HV Source
Calibration Factors
4508.10010                                   HV cal factors to/from file
External HV Source Calibration Factors
4508.10011                                                              0
status                                      0       External HV Source
Calibration Factors
4508.10012                                   External HV Source Cal Data
External HV Source Calibration Factors
4508.10013                                                              0
status                                      0       External HV Source
Calibration Factors
4508.10014                                                        -0.00130
-0.0016294          -0.00097761       External HV Source 20V Range slope
4508.10015                                                        -0.00125
-0.05                 0.05        External HV Source 20V Range offset
4508.10016                                                        -0.01406
-0.017924            -0.010754       External HV Source 200V Range slope
4508.10017                                                        -0.01349
-0.5                  0.5        External HV Source 200V Range offset
4508.10018                                                        -0.12212
-0.15259            -0.091554       External HV Source 2000V Range slope
4508.10019                                                        -0.11667
-5                    5        External HV Source 2000V Range offset
4508.10020                                                         0.48950
Atten_2 value
4508.10021                                Exp= -9.49885    Act= -9.49888
V                                                 Volt Meter 10V Range 1X
4508.10022                                                -0.000022010440411
V             -0.00595              0.00595       Delta : Volt Meter 10V Range
1X : -9.50
4508.10023                                Exp= 0.00117     Act= 0.00116
V                                                 Volt Meter 10V Range 1X
4508.10024                                                -0.000008952401384
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V              -0.0012              0.0012       Delta : Volt Meter 10V Range
1X : 0.00
4508.10025                                 Exp= 9.50114     Act= 9.50118
V                                                 Volt Meter 10V Range 1X
4508.10026                                                 0.000034072468022
V              -0.00595             0.00595       Delta : Volt Meter 10V Range
1X : 9.50
4508.10027                                 Exp= -28.49895   Act= -28.49926
V                                                 Volt Meter 30V Range 1X
4508.10028                                                -0.000315715866236
V              -0.01825             0.01825       Delta : Volt Meter 30V Range
1X : -28.50
4508.10029                                 Exp= 0.00127     Act= 0.00129
V                                                 Volt Meter 30V Range 1X
4508.10030                                                 0.000015682635688
V               -0.004               0.004        Delta : Volt Meter 30V Range
1X : 0.00
4508.10031                                 Exp= 28.50109    Act= 28.50132
V                                                 Volt Meter 30V Range 1X
4508.10032                                                 0.000230647555700
V              -0.01825             0.01825       Delta : Volt Meter 30V Range
1X : 28.50
4508.10033                                 Exp= -94.99861   Act= -94.99901
V                                                 Volt Meter 100V Range 1X
4508.10034                                                -0.000394142337711
V                -0.06                0.06        Delta : Volt Meter 100V Range
1X : -95.00
4508.10035                                 Exp= 0.00131     Act= 0.00120
V                                                 Volt Meter 100V Range 1X
4508.10036                                                -0.000106120450984
V               -0.0125              0.0125        Delta : Volt Meter 100V Range
1X : 0.00
4508.10037                                 Exp= 95.00126    Act= 95.00214
V                                                 Volt Meter 100V Range 1X
4508.10038                                                 0.000880101329926
V                -0.06                0.06        Delta : Volt Meter 100V Range
1X : 95.00
4508.10039                                 Exp= -0.94887    Act= -0.94889
V                                                 Volt Meter 10V Range 10X
4508.10040                                                -0.000014430874305
```

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V            -0.001075            0.001075       Delta : Volt Meter 10V Range
10X : -0.95
4508.10041                              Exp= 0.00117     Act= 0.00115
V                                              Volt Meter 10V Range 10X
4508.10042                                            -0.000020084170515
V              -0.0006              0.0006       Delta : Volt Meter 10V Range
10X : 0.00
4508.10043                              Exp= 0.95112     Act= 0.95111
V                                              Volt Meter 10V Range 10X
4508.10044                                            -0.000013076711223
V            -0.001075            0.001075       Delta : Volt Meter 10V Range
10X : 0.95
4508.10045                              Exp= -0.09385    Act= -0.09387
V                                              Volt Meter 10V Range 100X
4508.10046                                            -0.000016597073582
V           -0.0003475           0.0003475       Delta : Volt Meter 10V Range
100X : -0.10
4508.10047                              Exp= 0.00117     Act= 0.00115
V                                              Volt Meter 10V Range 100X
4508.10048                                            -0.000018458701794
V              -0.0003              0.0003       Delta : Volt Meter 10V Range
100X : 0.00
4508.10049                              Exp= 0.09617     Act= 0.09616
V                                              Volt Meter 10V Range 100X
4508.10050                                            -0.000013615099156
V           -0.0003475           0.0003475       Delta : Volt Meter 10V Range
100X : 0.10
4508.10051                              Exp= -2.84885    Act= -2.84889
V                                              Volt Meter 30V Range 10X
4508.10052                                            -0.000036879088273
V            -0.003425            0.003425       Delta : Volt Meter 30V Range
10X : -2.85
4508.10053                              Exp= 0.00129     Act= 0.00126
V                                              Volt Meter 30V Range 10X
4508.10054                                            -0.000029644034541
V              -0.002               0.002       Delta : Volt Meter 30V Range
10X : 0.00
4508.10055                              Exp= 2.85116     Act= 2.85115
V                                              Volt Meter 30V Range 10X
4508.10056                                            -0.000008020662210
```

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V            -0.003425            0.003425       Delta : Volt Meter 30V Range
10X : 2.85
4508.10057                                 Exp= -0.28383    Act= -0.28386
V                                                 Volt Meter 30V Range 100X
4508.10058                                                -0.000028407707066
V           -0.0011425           0.0011425       Delta : Volt Meter 30V Range
100X : -0.29
4508.10059                                 Exp= 0.00128     Act= 0.00126
V                                                 Volt Meter 30V Range 100X
4508.10060                                                -0.000024295040119
V               -0.001               0.001       Delta : Volt Meter 30V Range
100X : 0.00
4508.10061                                 Exp= 0.28611     Act= 0.28609
V                                                 Volt Meter 30V Range 100X
4508.10062                                                -0.000026468707758
V           -0.0011425           0.0011425       Delta : Volt Meter 30V Range
100X : 0.29
4508.10063                                 Exp= -9.49834    Act= -9.49853
V                                                 Volt Meter 100V Range 10X
4508.10064                                                -0.000188532248272
V             -0.01075             0.01075       Delta : Volt Meter 100V Range
10X : -9.50
4508.10065                                 Exp= 0.00131     Act= 0.00117
V                                                 Volt Meter 100V Range 10X
4508.10066                                                -0.000141513045619
V               -0.006               0.006       Delta : Volt Meter 100V Range
10X : 0.00
4508.10067                                 Exp= 9.50170     Act= 9.50160
V                                                 Volt Meter 100V Range 10X
4508.10068                                                -0.000103935802359
V             -0.01075             0.01075       Delta : Volt Meter 100V Range
10X : 9.50
4508.10069                                 Exp= -0.94869    Act= -0.94877
V                                                 Volt Meter 100V Range 100X
4508.10070                                                -0.000084877865174
V            -0.003475            0.003475       Delta : Volt Meter 100V Range
100X : -0.95
4508.10071                                 Exp= 0.00134     Act= 0.00123
V                                                 Volt Meter 100V Range 100X
4508.10072                                                -0.000112701191642
```

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V               -0.003                  0.003       Delta : Volt Meter 100V Range
100X : 0.00
4508.10073                                  Exp= 0.95118     Act= 0.95104
V                                                   Volt Meter 100V Range 100X
4508.10074                                                 -0.000137272414953
V           -0.003475             0.003475       Delta : Volt Meter 100V Range
100X : 0.95
4509.10000                                                                40.6  deg
C                                                   MotherBoard Cal Temperature
4509.10001                                                                40.1  deg
C                                                   MotherBoard Chk Temperature
4509.10002   MotherBoard temperature check Exp = 40.600422, Act = 40.074068
MotherBoard Chk Temperature
4509.10003                                                                   0
status                                          0       MotherBoard Chk
Temperature
4509.10004                                                                42.5  deg
C                                                   Control Board Cal Temperature
4509.10005                                                                42.0  deg
C                                                   Control Board Chk Temperature
4509.10006 Control Board temperature check Exp = 42.467915, Act = 41.959425
Control Board Chk Temperature
4509.10007                                                                   0
status                                          0       Control Board Chk
Temperature
6700 - HVMU Calibration Test --- <1 HVMU to Cal>
6700 - HVMU Calibration Test --- <1 HVMU to Check>
Datalog for: Check HVMU-16
                                  REV 6, Site #0, Bin #1
  TEST#                                          RESULT  UNITS        LOWER
UPPER ALARM TEST NAME
-------- ---------------------------------------- ------ ------------
------------ -----
--------------------------------------------------------------------------------
   6700.0                                                  0
0       If this failed there are Fatal Errors during Startup, Check System
Monitor
6700.1000                                   ETS1UOJUM00038
COMPUTER INFORMATION - Name
6700.1001                                      1000.000000      V
DIAG/CAL INFORMATION - Maximum Voltage
```

```
6700.1101                                                    0
0       DIB INFORMATION - DIB Information Read Status
6700.1102                                  ASM7080 R1 BOARD
DIB INFORMATION - Assembly Number
6700.1103                                            10171
DIB INFORMATION -
6700.1300
4930       RESOURCE INFORMATION - Board ID
6700.1402                                                    0
0       RESOURCE INFORMATION - Board Info Read Status
6700.1403                                  ASM7070G14010080
RESOURCE INFORMATION - Assembly Number
6700.1404                                                    6
RESOURCE INFORMATION - Revision Number
6700.1405                                            10080
RESOURCE INFORMATION -  6700.1406
RESOURCE INFORMATION - Manufacturer ID

6700.1407                          Fri Jul  6 08:00:00 2018
RESOURCE INFORMATION - Manufacture Date
6700.1408                                                    0
RESOURCE INFORMATION - Original System  6700.1409
RESOURCE INFORMATION - Service Technician

6700.1410                          Fri Jul  6 08:00:00 2018
RESOURCE INFORMATION - Service Date
6700.1411                          Thu Jan  1 08:00:00 1970
RESOURCE INFORMATION - Power On Time
6700.1412                                                    0  deg C
RESOURCE INFORMATION - Highest Temp
6700.1413                                                    0  deg C
RESOURCE INFORMATION - Lowest Temp
6700.1414                          Fri Jul  6 08:00:00 2018
RESOURCE INFORMATION - Highest Temp Date
6700.1415                          Fri Jul  6 08:00:00 2018
RESOURCE INFORMATION - Lowest Temp Date
6700.1416                          Fri Jul  6 08:00:00 2018
RESOURCE INFORMATION - Eco Date
6700.1417                                                    0
RESOURCE INFORMATION - Eco History
```

```
6700.1501                                                    0
0       PLD REVISION INFORMATION
6700.1503                                                    0
0       PLD REVISION INFORMATION
6700.1505                                                    1
1       PLD REVISION INFORMATION
6700.1506                          DATA[0]={0, 0, 0, 0, 1}
PLD REVISION INFORMATION
6700.1601                                                    0
0       NVM REGION(S) INFORMATION
6700.1602          NVM DEVICE TYPE=0x2, NVM REGION TYPE=0x5
NVM REGION(S) INFORMATION
6700.1603          NVM DEVICE TYPE=0x2, NVM REGION TYPE=0x6
NVM REGION(S) INFORMATION
6700.1604          NVM DEVICE TYPE=0x1, NVM REGION TYPE=0x2
NVM REGION(S) INFORMATION
6700.1605          NVM DEVICE TYPE=0x1, NVM REGION TYPE=0x3
NVM REGION(S) INFORMATION
6700.1606          NVM DEVICE TYPE=0x1, NVM REGION TYPE=0x1
NVM REGION(S) INFORMATION
6700.2000                                                 GPDU
HVMU Digitizer type
   6701.0                                                 0.50  deg C
Calibration vs. Check Temp Delta (Max = 5.00 deg C)
   6701.1 Board temperature check Exp = 25.00, Act = 25.50
   6701.2                                                    0 status
0
   6702.0                                           108.727   Area          -225
225      Squaring area: Squaring 40V; ch 0.
   6702.1                                             5.580     uV           -32
32       Squaring slope: Squaring 40V; ch 0.
   6702.2                                           149.476     nS          -300
300      Squaring risetime: Squaring 40V; ch 0.
   6702.3                                           136.307   Area          -225
225      Squaring area: Squaring 40V; ch 1.
   6702.4                                             4.958     uV           -32
32       Squaring slope: Squaring 40V; ch 1.
   6702.5                                           154.011     nS          -300
300      Squaring risetime: Squaring 40V; ch 1.
   6702.6                                           113.345   Area          -225
```

225	Squaring area: Squaring 40V; ch 2.				
6702.7		5.330	uV	-32	
32	Squaring slope: Squaring 40V; ch 2.				
6702.8		151.403	nS	-300	
300	Squaring risetime: Squaring 40V; ch 2.				
6702.9		124.894	Area	-225	
225	Squaring area: Squaring 40V; ch 3.				
6702.10		5.032	uV	-32	
32	Squaring slope: Squaring 40V; ch 3.				
6702.11		151.476	nS	-300	
300	Squaring risetime: Squaring 40V; ch 3.				
6702.12		34.103	Area	-145	
145	Squaring area: Squaring 80V; ch 0.				
6702.13		6.328	uV	-44	
44	Squaring slope: Squaring 80V; ch 0.				
6702.14		105.418	nS	-300	
300	Squaring risetime: Squaring 80V; ch 0.				
6702.15		39.187	Area	-145	
145	Squaring area: Squaring 80V; ch 1.				
6702.16		7.505	uV	-44	
44	Squaring slope: Squaring 80V; ch 1.				
6702.17		105.559	nS	-300	
300	Squaring risetime: Squaring 80V; ch 1.				
6702.18		20.499	Area	-145	
145	Squaring area: Squaring 80V; ch 2.				
6702.19		-1.110	uV	-44	
44	Squaring slope: Squaring 80V; ch 2.				
6702.20		102.431	nS	-300	
300	Squaring risetime: Squaring 80V; ch 2.				
6702.21		29.052	Area	-145	
145	Squaring area: Squaring 80V; ch 3.				
6702.22		4.987	uV	-44	
44	Squaring slope: Squaring 80V; ch 3.				
6702.23		105.234	nS	-300	
300	Squaring risetime: Squaring 80V; ch 3.				
6702.24		14.993	Area	-200	
200	Squaring area: Squaring 125V; ch 0.				
6702.25		0.785	uV	-57.5	
57.5	Squaring slope: Squaring 125V; ch 0.				
6702.26		90.140	nS	-300	

300 Squaring risetime: Squaring 125V; ch 0.
6702.27 27.306 Area -200
200 Squaring area: Squaring 125V; ch 1.
6702.28 8.028 uV -57.5
57.5 Squaring slope: Squaring 125V; ch 1.
6702.29 92.121 nS -300
300 Squaring risetime: Squaring 125V; ch 1.
6702.30 27.307 Area -200
200 Squaring area: Squaring 125V; ch 2.
6702.31 7.582 uV -57.5
57.5 Squaring slope: Squaring 125V; ch 2.
6702.32 91.435 nS -300
300 Squaring risetime: Squaring 125V; ch 2.
6702.33 15.617 Area -200
200 Squaring area: Squaring 125V; ch 3.
6702.34 3.390 uV -57.5
57.5 Squaring slope: Squaring 125V; ch 3.
6702.35 91.666 nS -300
300 Squaring risetime: Squaring 125V; ch 3.
6702.36 5.280 Area -200
200 Squaring area: Squaring 800V; ch 0.
6702.37 33.729 uV -340
340 Squaring slope: Squaring 800V; ch 0.
6702.38 81.485 nS -300
300 Squaring risetime: Squaring 800V; ch 0.
6702.39 4.962 Area -200
200 Squaring area: Squaring 800V; ch 1.
6702.40 28.283 uV -340
340 Squaring slope: Squaring 800V; ch 1.
6702.41 81.086 nS -300
300 Squaring risetime: Squaring 800V; ch 1.
6702.42 4.949 Area -200
200 Squaring area: Squaring 800V; ch 2.
6702.43 26.627 uV -340
340 Squaring slope: Squaring 800V; ch 2.
6702.44 80.983 nS -300
300 Squaring risetime: Squaring 800V; ch 2.
6702.45 5.694 Area -200
200 Squaring area: Squaring 800V; ch 3.
6702.46 15.312 uV -340

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340	Squaring slope: Squaring 800V; ch 3.				
6702.47		81.504	nS	-300	
300	Squaring risetime: Squaring 800V; ch 3.				
6702.48		5.826	Area	-200	
200	Squaring area: Squaring 1600V; ch 0.				
6702.49		66.610	uV	-580	
580	Squaring slope: Squaring 1600V; ch 0.				
6702.50		83.066	nS	-300	
300	Squaring risetime: Squaring 1600V; ch 0.				
6702.51		5.370	Area	-200	
200	Squaring area: Squaring 1600V; ch 1.				
6702.52		42.302	uV	-580	
580	Squaring slope: Squaring 1600V; ch 1.				
6702.53		82.802	nS	-300	
300	Squaring risetime: Squaring 1600V; ch 1.				
6702.54		5.755	Area	-200	
200	Squaring area: Squaring 1600V; ch 2.				
6702.55		62.114	uV	-580	
580	Squaring slope: Squaring 1600V; ch 2.				
6702.56		82.768	nS	-300	
300	Squaring risetime: Squaring 1600V; ch 2.				
6702.57		5.431	Area	-200	
200	Squaring area: Squaring 1600V; ch 3.				
6702.58		6.902	uV	-580	
580	Squaring slope: Squaring 1600V; ch 3.				
6702.59		82.905	nS	-300	
300	Squaring risetime: Squaring 1600V; ch 3.				
6702.60		6.802	Area	-200	
200	Squaring area: Squaring 2500V; ch 0.				
6702.61		91.114	uV	-850	
850	Squaring slope: Squaring 2500V; ch 0.				
6702.62		87.436	nS	-300	
300	Squaring risetime: Squaring 2500V; ch 0.				
6702.63		6.769	Area	-200	
200	Squaring area: Squaring 2500V; ch 1.				
6702.64		108.339	uV	-850	
850	Squaring slope: Squaring 2500V; ch 1.				
6702.65		87.712	nS	-300	
300	Squaring risetime: Squaring 2500V; ch 1.				
6702.66		6.882	Area	-200	

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200       Squaring area: Squaring 2500V; ch 2.
  6702.67                                          96.610     uV          -850
850       Squaring slope: Squaring 2500V; ch 2.
  6702.68                                          87.737     nS          -300
300       Squaring risetime: Squaring 2500V; ch 2.
  6702.69                                           6.709   Area          -200
200       Squaring area: Squaring 2500V; ch 3.
  6702.70                                          14.148     uV          -850
850       Squaring slope: Squaring 2500V; ch 3.
  6702.71                                          87.864     nS          -300
300       Squaring risetime: Squaring 2500V; ch 3.
6702.1500                                                0
0       Squaring Status
6702.1501
Squaring error code
6702.1502                                                0 status
0       Squaring error code
   6703.0                        Measure the HV 20V divider
External HV Source Calibration Factors
   6703.1                                                0 status
0       External HV Source Calibration Factors
   6703.2                       Measure the HV 200V divider
External HV Source Calibration Factors
   6703.3                                                0 status
0       External HV Source Calibration Factors
   6703.4                                Measure 2000V path
External HV Source Calibration Factors
   6703.5                                                0 status
0       External HV Source Calibration Factors
   6703.6                                   Measure ATTEN_2
External HV Source Calibration Factors
   6703.7                                                0 status
0       External HV Source Calibration Factors
   6703.8                       HV cal factors to/from file
External HV Source Calibration Factors
   6703.9                                                0 status
0       External HV Source Calibration Factors
  6703.10                       External HV Source Cal Data
External HV Source Calibration Factors
  6703.11                                                0 status
```

```
0       External HV Source Calibration Factors
  6703.12                                          -0.00130          -0.0016294  -
0.00097761       External HV Source 20V Range slope
  6703.13                                          -0.00125               -0.05
0.05       External HV Source 20V Range offset
  6703.14                                          -0.01406           -0.017924
-0.010754       External HV Source 200V Range slope
  6703.15                                          -0.01349               -0.5
0.5       External HV Source 200V Range offset
  6703.16                                          -0.12212          -0.15259
-0.091554       External HV Source 2000V Range slope
  6703.17                                          -0.11667                -5
5       External HV Source 2000V Range offset
  6703.18                                           0.48950
Atten_2 value
6703.1001                                         -0.014547     V         -0.9
0.9       Gain/Offset 40V; ch 0 Check: Delta; Range=40V; Set=    0.000000V
6703.1002                                         -0.024726     V         -0.9
0.9       Gain/Offset 40V; ch 0 Check: Delta; Range=40V; Set=   20.000000V
6703.3001                                          0.063364     V         -0.9
0.9       Gain/Offset 40V; ch 1 Check: Delta; Range=40V; Set=    0.000000V
6703.3002                                          0.063276     V         -0.9
0.9       Gain/Offset 40V; ch 1 Check: Delta; Range=40V; Set=   20.000000V
6703.5001                                          0.046284     V         -0.9
0.9       Gain/Offset 40V; ch 2 Check: Delta; Range=40V; Set=    0.000000V
6703.5002                                          0.053814     V         -0.9
0.9       Gain/Offset 40V; ch 2 Check: Delta; Range=40V; Set=   20.000000V
6703.7001                                         -0.028755     V         -0.9
0.9       Gain/Offset 40V; ch 3 Check: Delta; Range=40V; Set=    0.000000V
6703.7002                                         -0.035734     V         -0.9
0.9       Gain/Offset 40V; ch 3 Check: Delta; Range=40V; Set=   20.000000V
6703.1101                                         -0.037888     V        -1.73
1.73       Gain/Offset 80V; ch 0 Check: Delta; Range=80V; Set=    0.000000V
6703.1102                                         -0.050341     V        -1.73
1.73       Gain/Offset 80V; ch 0 Check: Delta; Range=80V; Set=   65.000000V
6703.3101                                          0.119413     V        -1.73
1.73       Gain/Offset 80V; ch 1 Check: Delta; Range=80V; Set=    0.000000V
6703.3102                                          0.109125     V        -1.73
1.73       Gain/Offset 80V; ch 1 Check: Delta; Range=80V; Set=   65.000000V
6703.5101                                          0.115813     V        -1.73
```

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1.73        Gain/Offset 80V; ch 2 Check: Delta; Range=80V; Set=     0.000000V
6703.5102                                          0.107284       V         -1.73
1.73        Gain/Offset 80V; ch 2 Check: Delta; Range=80V; Set=    65.000000V
6703.7101                                         -0.054862       V         -1.73
1.73        Gain/Offset 80V; ch 3 Check: Delta; Range=80V; Set=     0.000000V
6703.7102                                         -0.044541       V         -1.73
1.73        Gain/Offset 80V; ch 3 Check: Delta; Range=80V; Set=    65.000000V
6703.1201                                         -0.026461       V         -2.88
2.88        Gain/Offset 125V; ch 0 Check: Delta; Range=125V; Set=     0.000000V
6703.1202                                         -0.017482       V         -2.88
2.88        Gain/Offset 125V; ch 0 Check: Delta; Range=125V; Set=    90.000000V
6703.3201                                          0.168784       V         -2.88
2.88        Gain/Offset 125V; ch 1 Check: Delta; Range=125V; Set=     0.000000V
6703.3202                                          0.167228       V         -2.88
2.88        Gain/Offset 125V; ch 1 Check: Delta; Range=125V; Set=    90.000000V
6703.5201                                          0.184229       V         -2.88
2.88        Gain/Offset 125V; ch 2 Check: Delta; Range=125V; Set=     0.000000V
6703.5202                                          0.133741       V         -2.88
2.88        Gain/Offset 125V; ch 2 Check: Delta; Range=125V; Set=    90.000000V
6703.7201                                         -0.079283       V         -2.88
2.88        Gain/Offset 125V; ch 3 Check: Delta; Range=125V; Set=     0.000000V
6703.7202                                         -0.097836       V         -2.88
2.88        Gain/Offset 125V; ch 3 Check: Delta; Range=125V; Set=    90.000000V
6703.1301                                         -0.043595       V         -16.2
16.2        Gain/Offset 800V; ch 0 Check: Delta; Range=800V; Set=     0.000000V
6703.1302                                         -0.124031       V         -16.2
16.2        Gain/Offset 800V; ch 0 Check: Delta; Range=800V; Set=   600.000000V
6703.3301                                          0.056355       V         -16.2
16.2        Gain/Offset 800V; ch 1 Check: Delta; Range=800V; Set=     0.000000V
6703.3302                                         -0.152089       V         -16.2
16.2        Gain/Offset 800V; ch 1 Check: Delta; Range=800V; Set=   600.000000V
6703.5301                                          0.015594       V         -16.2
16.2        Gain/Offset 800V; ch 2 Check: Delta; Range=800V; Set=     0.000000V
6703.5302                                         -0.022355       V         -16.2
16.2        Gain/Offset 800V; ch 2 Check: Delta; Range=800V; Set=   600.000000V
6703.7301                                         -0.037389       V         -16.2
16.2        Gain/Offset 800V; ch 3 Check: Delta; Range=800V; Set=     0.000000V
6703.7302                                         -0.028001       V         -16.2
16.2        Gain/Offset 800V; ch 3 Check: Delta; Range=800V; Set=   600.000000V
6703.1401                                         -0.068998       V         -32.2
```

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32.2       Gain/Offset 1600V; ch 0 Check: Delta; Range=1600V; Set=    0.000000V
6703.1402                                          0.050546      V        -32.2
32.2       Gain/Offset 1600V; ch 0 Check: Delta; Range=1600V; Set=  900.000000V
6703.3401                                          0.155506      V        -32.2
32.2       Gain/Offset 1600V; ch 1 Check: Delta; Range=1600V; Set=    0.000000V
6703.3402                                         -0.298630      V        -32.2
32.2       Gain/Offset 1600V; ch 1 Check: Delta; Range=1600V; Set=  900.000000V
6703.5401                                          0.082755      V        -32.2
32.2       Gain/Offset 1600V; ch 2 Check: Delta; Range=1600V; Set=    0.000000V
6703.5402                                         -0.155739      V        -32.2
32.2       Gain/Offset 1600V; ch 2 Check: Delta; Range=1600V; Set=  900.000000V
6703.7401                                          0.086224      V        -32.2
32.2       Gain/Offset 1600V; ch 3 Check: Delta; Range=1600V; Set=    0.000000V
6703.7402                                         -0.185306      V        -32.2
32.2       Gain/Offset 1600V; ch 3 Check: Delta; Range=1600V; Set=  900.000000V
6703.1501                                         -0.193334      V        -50.7
50.7       Gain/Offset 2500V; ch 0 Check: Delta; Range=2500V; Set=    0.000000V
6703.1502                                          0.004662      V        -50.7
50.7       Gain/Offset 2500V; ch 0 Check: Delta; Range=2500V; Set=  900.000000V
6703.3501                                          0.460015      V        -50.7
50.7       Gain/Offset 2500V; ch 1 Check: Delta; Range=2500V; Set=    0.000000V
6703.3502                                          0.022663      V        -50.7
50.7       Gain/Offset 2500V; ch 1 Check: Delta; Range=2500V; Set=  900.000000V
6703.5501                                         -0.128584      V        -50.7
50.7       Gain/Offset 2500V; ch 2 Check: Delta; Range=2500V; Set=    0.000000V
6703.5502                                         -0.048018      V        -50.7
50.7       Gain/Offset 2500V; ch 2 Check: Delta; Range=2500V; Set=  900.000000V
6703.7501                                         -0.089426      V        -50.7
50.7       Gain/Offset 2500V; ch 3 Check: Delta; Range=2500V; Set=    0.000000V
6703.7502                                          0.102595      V        -50.7
50.7       Gain/Offset 2500V; ch 3 Check: Delta; Range=2500V; Set=  900.000000V
   6704.0                                         42.953     dB           30
CMRR: CMR 40V; ch 0.
   6704.1                                          4.982     V           -20
20       CMRR Peak: CMR 40V; ch 0.
   6704.2                                         40.401     dB           30
CMRR: CMR 80V; ch 0.
   6704.3                                          6.684     V           -23
23       CMRR Peak: CMR 80V; ch 0.
   6704.4                                         38.769     dB           30
```

CMRR: CMR 125V; ch 0.				
6704.5		8.066	V	-27.5
27.5	CMRR Peak: CMR 125V; ch 0.			
6704.6		22.282	dB	15
CMRR: CMR 800V; ch 0.				
6704.7		53.824	V	-110
110	CMRR Peak: CMR 800V; ch 0.			
6704.8		20.795	dB	15
CMRR: CMR 1600V; ch 0.				
6704.9		63.879	V	-165
165	CMRR Peak: CMR 1600V; ch 0.			
6704.10		18.976	dB	15
CMRR: CMR 2500V; ch 0.				
6704.11		78.759	V	-255
255	CMRR Peak: CMR 2500V; ch 0.			
6704.12		41.541	dB	30
CMRR: CMR 40V; ch 1.				
6704.13		5.862	V	-20
20	CMRR Peak: CMR 40V; ch 1.			
6704.14		40.121	dB	30
CMRR: CMR 80V; ch 1.				
6704.15		6.903	V	-23
23	CMRR Peak: CMR 80V; ch 1.			
6704.16		39.270	dB	30
CMRR: CMR 125V; ch 1.				
6704.17		7.614	V	-27.5
27.5	CMRR Peak: CMR 125V; ch 1.			
6704.18		23.368	dB	15
CMRR: CMR 800V; ch 1.				
6704.19		47.499	V	-110
110	CMRR Peak: CMR 800V; ch 1.			
6704.20		21.826	dB	15
CMRR: CMR 1600V; ch 1.				
6704.21		56.726	V	-165
165	CMRR Peak: CMR 1600V; ch 1.			
6704.22		20.293	dB	15
CMRR: CMR 2500V; ch 1.				
6704.23		67.677	V	-255
255	CMRR Peak: CMR 2500V; ch 1.			
6704.24		39.013	dB	30

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CMRR: CMR 40V; ch 2.
  6704.25                                    7.842      V          -20
20       CMRR Peak: CMR 40V; ch 2.
  6704.26                                   37.975      dB          30
CMRR: CMR 80V; ch 2.
  6704.27                                    8.838      V          -23
23       CMRR Peak: CMR 80V; ch 2.
  6704.28                                   36.662      dB          30
CMRR: CMR 125V; ch 2.
  6704.29                                   10.280      V        -27.5
27.5       CMRR Peak: CMR 125V; ch 2.
  6704.30                                   23.451      dB          15
CMRR: CMR 800V; ch 2.
  6704.31                                   47.050      V         -110
110       CMRR Peak: CMR 800V; ch 2.
  6704.32                                   21.851      dB          15
CMRR: CMR 1600V; ch 2.
  6704.33                                   56.565      V         -165
165       CMRR Peak: CMR 1600V; ch 2.
  6704.34                                   20.418      dB          15
CMRR: CMR 2500V; ch 2.
  6704.35                                   66.714      V         -255
255       CMRR Peak: CMR 2500V; ch 2.
  6704.36                                   38.763      dB          30
CMRR: CMR 40V; ch 3.
  6704.37                                    8.072      V          -20
20       CMRR Peak: CMR 40V; ch 3.
  6704.38                                   38.392      dB          30
CMRR: CMR 80V; ch 3.
  6704.39                                    8.423      V          -23
23       CMRR Peak: CMR 80V; ch 3.
  6704.40                                   38.288      dB          30
CMRR: CMR 125V; ch 3.
  6704.41                                    8.525      V        -27.5
27.5       CMRR Peak: CMR 125V; ch 3.
  6704.42                                   22.818      dB          15
CMRR: CMR 800V; ch 3.
  6704.43                                   50.604      V         -110
110       CMRR Peak: CMR 800V; ch 3.
  6704.44                                   21.749      dB          15
```

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CMRR: CMR 1600V; ch 3.
  6704.45                                                57.234      V         -165
165       CMRR Peak: CMR 1600V; ch 3.
  6704.46                                                20.532     dB           15
CMRR: CMR 2500V; ch 3.
  6704.47                                                65.842      V         -255
255       CMRR Peak: CMR 2500V; ch 3.
6704.1500                                                     0
0       AC CMR Status
6704.1501
AC CMR error code
6704.1502                                                     0 status
0       AC CMR error code
6800 - Gate Driver Unit 8 Pin 30V Test --- <1 GDU830 to Cal>
6800 - Gate Driver Unit 8 Pin 30V Test --- <1 GDU830 to Check>
Datalog for: Check GDU830-12         REV 5, Site #0, Bin #1
  TEST#                                                RESULT  UNITS
LOWER                UPPER ALARM TEST NAME
-------- ------------------------------------------------ ------ ---------------
----- ------------------- ----- ----------------------------------------------
--------------------------
   6800.0                                                     0
0       If this failed there are Fatal Errors during Startup, Check System
Monitor
6800.1000                                        ETS1UOJUM00038
COMPUTER INFORMATION - Name
6800.1001                                           1000.000000      V
DIAG/CAL INFORMATION - Maximum Voltage
6800.1101                                                     0
0      DIB INFORMATION - DIB Information Read Status
6800.1102                                      ASM7080 R1 BOARD
DIB INFORMATION - Assembly Number
6800.1103                                               10171
DIB INFORMATION -
6800.1300
4418       RESOURCE INFORMATION - Board ID
6800.1402                                                     0
0       RESOURCE INFORMATION - Board Info Read Status
6800.1403                               ASM7075G_Rev05_SN010075
RESOURCE INFORMATION - Assembly Number
```

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6800.1404                                                5
RESOURCE INFORMATION - Revision Number
6800.1405                                            10075
RESOURCE INFORMATION -
 6800.1406
RESOURCE INFORMATION - Manufacturer ID
6800.1407                          Wed May 22 08:00:00 2019
RESOURCE INFORMATION - Manufacture Date
6800.1408                                                0
RESOURCE INFORMATION - Original System
 6800.1409
RESOURCE INFORMATION - Service Technician
6800.1410                          Wed May 22 08:00:00 2019
RESOURCE INFORMATION - Service Date
6800.1411                          Thu Jan  1 08:00:00 1970
RESOURCE INFORMATION - Power On Time
6800.1412                                                0  deg C
RESOURCE INFORMATION - Highest Temp
6800.1413                                                0  deg C
RESOURCE INFORMATION - Lowest Temp
6800.1414                          Wed May 22 08:00:00 2019
RESOURCE INFORMATION - Highest Temp Date
6800.1415                          Wed May 22 08:00:00 2019
RESOURCE INFORMATION - Lowest Temp Date
6800.1416                          Wed May 22 08:00:00 2019
RESOURCE INFORMATION - Eco Date
6800.1417                                                0
RESOURCE INFORMATION - Eco History
6800.1501                                                0
0       PLD REVISION INFORMATION
6800.1503                                                0
0       PLD REVISION INFORMATION
6800.1505                                                1
1       PLD REVISION INFORMATION
6800.1506                           DATA[0]={0, 0, 0, 1, 2}
PLD REVISION INFORMATION
6800.1601                                                0
0       NVM REGION(S) INFORMATION
6800.1602          NVM DEVICE TYPE=0x2, NVM REGION TYPE=0x5
NVM REGION(S) INFORMATION
```

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6800.1603          NVM DEVICE TYPE=0x2, NVM REGION TYPE=0x6
NVM REGION(S) INFORMATION
6800.1604          NVM DEVICE TYPE=0x1, NVM REGION TYPE=0x2
NVM REGION(S) INFORMATION
6800.1605          NVM DEVICE TYPE=0x1, NVM REGION TYPE=0x3
NVM REGION(S) INFORMATION
6800.1606          NVM DEVICE TYPE=0x1, NVM REGION TYPE=0x1
NVM REGION(S) INFORMATION
   6801.0                                                0.00  deg C
Calibration vs. Check Temp Delta (Max = 5.00 deg C)
   6801.1 Board temperature check Exp = 26.50, Act = 26.50
   6801.2                                                   0 status
0
   6802.0                                          -0.0002       V
-0.12                 0.12       FORCE VOLTAGE Lo Ch=0
   6802.1                                -0.000174694811000       V
-0.12                 0.12       Delta : FORCE VOLTAGE Lo Ch=0 : 0.00
   6802.2                                          -7.0003       V                -
7.155                -6.845      FORCE VOLTAGE Lo Ch=0
   6802.3                                -0.000257730000000       V                -
0.155                 0.155      Delta : FORCE VOLTAGE Lo Ch=0 : -7.00
   6802.4                                          -14.9999      V
-15.2                -14.81      FORCE VOLTAGE Lo Ch=0
   6802.5                                 0.000123000000000      V                -
0.195                 0.195      Delta : FORCE VOLTAGE Lo Ch=0 : -15.00
   6802.6                                          -22.0009      V                -
22.23                -21.77      FORCE VOLTAGE Lo Ch=0
   6802.7                                -0.000898400000001       V
-0.23                 0.23       Delta : FORCE VOLTAGE Lo Ch=0 : -22.00
   6802.8                                          -30.0008      V                -
30.27                -29.73      FORCE VOLTAGE Lo Ch=0
   6802.9                                -0.000770599999999       V
-0.27                 0.27       Delta : FORCE VOLTAGE Lo Ch=0 : -30.00
 6802.100                                          -0.0007       V
-0.12                 0.12       FORCE VOLTAGE Lo Ch=1
 6802.101                              -0.000674060255000       V
-0.12                 0.12       Delta : FORCE VOLTAGE Lo Ch=1 : 0.00
 6802.102                                          -6.9997       V                -
7.155                -6.845      FORCE VOLTAGE Lo Ch=1
 6802.103                               0.000269410000000       V                -
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0.155          0.155    Delta : FORCE VOLTAGE Lo Ch=1 : -7.00
 6802.104                                -14.9997      V
-15.2          -14.81    FORCE VOLTAGE Lo Ch=1
 6802.105                          0.000322799999999      V          -
0.195          0.195    Delta : FORCE VOLTAGE Lo Ch=1 : -15.00
 6802.106                                -21.9991      V          -
22.23          -21.77    FORCE VOLTAGE Lo Ch=1
 6802.107                          0.000917399999999      V
-0.23           0.23    Delta : FORCE VOLTAGE Lo Ch=1 : -22.00
 6802.108                                -30.0000      V          -
30.27          -29.73    FORCE VOLTAGE Lo Ch=1
 6802.109                          0.000038100000001      V
-0.27           0.27    Delta : FORCE VOLTAGE Lo Ch=1 : -30.00
 6802.200                                 -0.0007      V
-0.12           0.12    FORCE VOLTAGE Lo Ch=2
 6802.201                        -0.000651769282000      V
-0.12           0.12    Delta : FORCE VOLTAGE Lo Ch=2 : 0.00
 6802.202                                 -6.9991      V          -
7.155          -6.845    FORCE VOLTAGE Lo Ch=2
 6802.203                          0.000947000000000      V          -
0.155          0.155    Delta : FORCE VOLTAGE Lo Ch=2 : -7.00
 6802.204                                -15.0004      V
-15.2          -14.81    FORCE VOLTAGE Lo Ch=2
 6802.205                         -0.000429199999999      V          -
0.195          0.195    Delta : FORCE VOLTAGE Lo Ch=2 : -15.00
 6802.206                                -22.0008      V          -
22.23          -21.77    FORCE VOLTAGE Lo Ch=2
 6802.207                         -0.000811599999999      V
-0.23           0.23    Delta : FORCE VOLTAGE Lo Ch=2 : -22.00
 6802.208                                -29.9992      V          -
30.27          -29.73    FORCE VOLTAGE Lo Ch=2
 6802.209                          0.000835400000000      V
-0.27           0.27    Delta : FORCE VOLTAGE Lo Ch=2 : -30.00
 6802.300                                 -0.0005      V
-0.12           0.12    FORCE VOLTAGE Lo Ch=3
 6802.301                        -0.000530480262000      V
-0.12           0.12    Delta : FORCE VOLTAGE Lo Ch=3 : 0.00
 6802.302                                 -6.9996      V          -
7.155          -6.845    FORCE VOLTAGE Lo Ch=3
 6802.303                          0.000363110000000      V          -
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0.155          0.155    Delta : FORCE VOLTAGE Lo Ch=3 : -7.00
 6802.304                          -15.0015      V
-15.2          -14.81   FORCE VOLTAGE Lo Ch=3
 6802.305                 -0.001450999999999     V            -
0.195          0.195    Delta : FORCE VOLTAGE Lo Ch=3 : -15.00
 6802.306                          -22.0006      V            -
22.23          -21.77   FORCE VOLTAGE Lo Ch=3
 6802.307                 -0.000606500000000     V
-0.23           0.23    Delta : FORCE VOLTAGE Lo Ch=3 : -22.00
 6802.308                          -30.0004      V            -
30.27          -29.73   FORCE VOLTAGE Lo Ch=3
 6802.309                 -0.000403400000000     V
-0.27           0.27    Delta : FORCE VOLTAGE Lo Ch=3 : -30.00
 6802.400                           -0.0006      V
-0.12           0.12    FORCE VOLTAGE Lo Ch=4
 6802.401                 -0.000626505673000     V
-0.12           0.12    Delta : FORCE VOLTAGE Lo Ch=4 : 0.00
 6802.402                           -7.0003      V            -
7.155          -6.845   FORCE VOLTAGE Lo Ch=4
 6802.403                 -0.000283240000000     V            -
0.155          0.155    Delta : FORCE VOLTAGE Lo Ch=4 : -7.00
 6802.404                          -15.0011      V
-15.2          -14.81   FORCE VOLTAGE Lo Ch=4
 6802.405                 -0.001119100000000     V            -
0.195          0.195    Delta : FORCE VOLTAGE Lo Ch=4 : -15.00
 6802.406                          -22.0011      V            -
22.23          -21.77   FORCE VOLTAGE Lo Ch=4
 6802.407                 -0.001082400000001     V
-0.23           0.23    Delta : FORCE VOLTAGE Lo Ch=4 : -22.00
 6802.408                          -30.0002      V            -
30.27          -29.73   FORCE VOLTAGE Lo Ch=4
 6802.409                 -0.000161200000001     V
-0.27           0.27    Delta : FORCE VOLTAGE Lo Ch=4 : -30.00
 6802.500                           -0.0008      V
-0.12           0.12    FORCE VOLTAGE Lo Ch=5
 6802.501                 -0.000771077524000     V
-0.12           0.12    Delta : FORCE VOLTAGE Lo Ch=5 : 0.00
 6802.502                           -7.0002      V            -
7.155          -6.845   FORCE VOLTAGE Lo Ch=5
 6802.503                 -0.000220300000000     V            -
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0.155          0.155    Delta : FORCE VOLTAGE Lo Ch=5 : -7.00
 6802.504                          -14.9998      V
-15.2          -14.81   FORCE VOLTAGE Lo Ch=5
 6802.505                  0.000238400000001     V            -
0.195          0.195    Delta : FORCE VOLTAGE Lo Ch=5 : -15.00
 6802.506                          -22.0011      V            -
22.23          -21.77   FORCE VOLTAGE Lo Ch=5
 6802.507                 -0.001138699999998     V
-0.23           0.23    Delta : FORCE VOLTAGE Lo Ch=5 : -22.00
 6802.508                          -29.9996      V            -
30.27          -29.73   FORCE VOLTAGE Lo Ch=5
 6802.509                  0.000385300000001     V
-0.27           0.27    Delta : FORCE VOLTAGE Lo Ch=5 : -30.00
 6802.600                            0.0002      V
-0.12           0.12    FORCE VOLTAGE Lo Ch=6
 6802.601                  0.000150937434000     V
-0.12           0.12    Delta : FORCE VOLTAGE Lo Ch=6 : 0.00
 6802.602                           -6.9998      V            -
7.155          -6.845   FORCE VOLTAGE Lo Ch=6
 6802.603                  0.000191450000000     V            -
0.155          0.155    Delta : FORCE VOLTAGE Lo Ch=6 : -7.00
 6802.604                          -15.0002      V
-15.2          -14.81   FORCE VOLTAGE Lo Ch=6
 6802.605                 -0.000185000000000     V            -
0.195          0.195    Delta : FORCE VOLTAGE Lo Ch=6 : -15.00
 6802.606                          -22.0000      V            -
22.23          -21.77   FORCE VOLTAGE Lo Ch=6
 6802.607                 -0.000042900000000     V
-0.23           0.23    Delta : FORCE VOLTAGE Lo Ch=6 : -22.00
 6802.608                          -30.0000      V            -
30.27          -29.73   FORCE VOLTAGE Lo Ch=6
 6802.609                 -0.000041000000000     V
-0.27           0.27    Delta : FORCE VOLTAGE Lo Ch=6 : -30.00
 6802.700                            -0.0004     V
-0.12           0.12    FORCE VOLTAGE Lo Ch=7
 6802.701                 -0.000360838385000     V
-0.12           0.12    Delta : FORCE VOLTAGE Lo Ch=7 : 0.00
 6802.702                           -6.9999      V            -
7.155          -6.845   FORCE VOLTAGE Lo Ch=7
 6802.703                  0.000123020000000     V            -
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0.155          0.155    Delta : FORCE VOLTAGE Lo Ch=7 : -7.00
 6802.704                          -15.0000      V
-15.2          -14.81   FORCE VOLTAGE Lo Ch=7
 6802.705                 -0.000018600000001     V            -
0.195          0.195    Delta : FORCE VOLTAGE Lo Ch=7 : -15.00
 6802.706                          -22.0000      V            -
22.23          -21.77   FORCE VOLTAGE Lo Ch=7
 6802.707                 -0.000021000000000     V
-0.23            0.23   Delta : FORCE VOLTAGE Lo Ch=7 : -22.00
 6802.708                          -30.0001      V            -
30.27          -29.73   FORCE VOLTAGE Lo Ch=7
 6802.709                 -0.000096299999999     V
-0.27            0.27   Delta : FORCE VOLTAGE Lo Ch=7 : -30.00
6802.1000                            0.0000      V
-0.12            0.12   FORCE VOLTAGE Hi Ch=0
6802.1001                  0.000028036005500     V
-0.12            0.12   Delta : FORCE VOLTAGE Hi Ch=0 : 0.00
6802.1002                            6.9998      V
6.845          7.155    FORCE VOLTAGE Hi Ch=0
6802.1003                 -0.000185490000000     V            -
0.155          0.155    Delta : FORCE VOLTAGE Hi Ch=0 : 7.00
6802.1004                           14.9995      V
14.81           15.2    FORCE VOLTAGE Hi Ch=0
6802.1005                 -0.000500199999999     V            -
0.195          0.195    Delta : FORCE VOLTAGE Hi Ch=0 : 15.00
6802.1006                           22.0000      V
21.77          22.23    FORCE VOLTAGE Hi Ch=0
6802.1007                  0.000000000000000     V
-0.23            0.23   Delta : FORCE VOLTAGE Hi Ch=0 : 22.00
6802.1008                           30.0004      V
29.73          30.27    FORCE VOLTAGE Hi Ch=0
6802.1009                  0.000426300000001     V
-0.27            0.27   Delta : FORCE VOLTAGE Hi Ch=0 : 30.00
6802.1100                           -0.0001      V
-0.12            0.12   FORCE VOLTAGE Hi Ch=1
6802.1101                 -0.000103996039000     V
-0.12            0.12   Delta : FORCE VOLTAGE Hi Ch=1 : 0.00
6802.1102                            7.0001      V
6.845          7.155    FORCE VOLTAGE Hi Ch=1
6802.1103                  0.000073190000000     V            -
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0.155          0.155     Delta : FORCE VOLTAGE Hi Ch=1 : 7.00
6802.1104                                15.0000      V
14.81           15.2     FORCE VOLTAGE Hi Ch=1
6802.1105                       0.000012900000000     V              -
0.195          0.195     Delta : FORCE VOLTAGE Hi Ch=1 : 15.00
6802.1106                                21.9997      V
21.77          22.23     FORCE VOLTAGE Hi Ch=1
6802.1107                      -0.000303299999999     V
-0.23           0.23     Delta : FORCE VOLTAGE Hi Ch=1 : 22.00
6802.1108                                30.0003      V
29.73          30.27     FORCE VOLTAGE Hi Ch=1
6802.1109                       0.000314700000001     V
-0.27           0.27     Delta : FORCE VOLTAGE Hi Ch=1 : 30.00
6802.1200                                 0.0001      V
-0.12           0.12     FORCE VOLTAGE Hi Ch=2
6802.1201                       0.000139622149000     V
-0.12           0.12     Delta : FORCE VOLTAGE Hi Ch=2 : 0.00
6802.1202                                 6.9999      V
6.845          7.155     FORCE VOLTAGE Hi Ch=2
6802.1203                      -0.000102280000000     V              -
0.155          0.155     Delta : FORCE VOLTAGE Hi Ch=2 : 7.00
6802.1204                                14.9995      V
14.81           15.2     FORCE VOLTAGE Hi Ch=2
6802.1205                      -0.000451600000000     V              -
0.195          0.195     Delta : FORCE VOLTAGE Hi Ch=2 : 15.00
6802.1206                                22.0002      V
21.77          22.23     FORCE VOLTAGE Hi Ch=2
6802.1207                       0.000172599999999     V
-0.23           0.23     Delta : FORCE VOLTAGE Hi Ch=2 : 22.00
6802.1208                                29.9989      V
29.73          30.27     FORCE VOLTAGE Hi Ch=2
6802.1209                      -0.001111999999999     V
-0.27           0.27     Delta : FORCE VOLTAGE Hi Ch=2 : 30.00
6802.1300                                 0.0000      V
-0.12           0.12     FORCE VOLTAGE Hi Ch=3
6802.1301                       0.000024980052300     V
-0.12           0.12     Delta : FORCE VOLTAGE Hi Ch=3 : 0.00
6802.1302                                 6.9993      V
6.845          7.155     FORCE VOLTAGE Hi Ch=3
6802.1303                      -0.000714060000000     V              -
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0.155          0.155     Delta : FORCE VOLTAGE Hi Ch=3 : 7.00
6802.1304                                15.0001      V
14.81           15.2     FORCE VOLTAGE Hi Ch=3
6802.1305                       0.000075300000001     V              -
0.195          0.195     Delta : FORCE VOLTAGE Hi Ch=3 : 15.00
6802.1306                                22.0003      V
21.77          22.23     FORCE VOLTAGE Hi Ch=3
6802.1307                       0.000341400000000     V
-0.23           0.23     Delta : FORCE VOLTAGE Hi Ch=3 : 22.00
6802.1308                                29.9991      V
29.73          30.27     FORCE VOLTAGE Hi Ch=3
6802.1309                      -0.000943199999998     V
-0.27           0.27     Delta : FORCE VOLTAGE Hi Ch=3 : 30.00
6802.1400                                -0.0001      V
-0.12           0.12     FORCE VOLTAGE Hi Ch=4
6802.1401                      -0.000071075232000     V
-0.12           0.12     Delta : FORCE VOLTAGE Hi Ch=4 : 0.00
6802.1402                                 7.0005      V
6.845          7.155     FORCE VOLTAGE Hi Ch=4
6802.1403                       0.000470400000000     V              -
0.155          0.155     Delta : FORCE VOLTAGE Hi Ch=4 : 7.00
6802.1404                                15.0004      V
14.81           15.2     FORCE VOLTAGE Hi Ch=4
6802.1405                       0.000402899999999     V              -
0.195          0.195     Delta : FORCE VOLTAGE Hi Ch=4 : 15.00
6802.1406                                22.0005      V
21.77          22.23     FORCE VOLTAGE Hi Ch=4
6802.1407                       0.000498799999999     V
-0.23           0.23     Delta : FORCE VOLTAGE Hi Ch=4 : 22.00
6802.1408                                30.0000      V
29.73          30.27     FORCE VOLTAGE Hi Ch=4
6802.1409                       0.000021000000000     V
-0.27           0.27     Delta : FORCE VOLTAGE Hi Ch=4 : 30.00
6802.1500                                 0.0000      V
-0.12           0.12     FORCE VOLTAGE Hi Ch=5
6802.1501                       0.000028752059700     V
-0.12           0.12     Delta : FORCE VOLTAGE Hi Ch=5 : 0.00
6802.1502                                 6.9995      V
6.845          7.155     FORCE VOLTAGE Hi Ch=5
6802.1503                      -0.000482320000000     V              -
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0.155          0.155      Delta : FORCE VOLTAGE Hi Ch=5 : 7.00
6802.1504                                14.9991      V
14.81           15.2      FORCE VOLTAGE Hi Ch=5
6802.1505                       -0.000944600000000    V              -
0.195          0.195      Delta : FORCE VOLTAGE Hi Ch=5 : 15.00
6802.1506                                22.0012      V
21.77          22.23      FORCE VOLTAGE Hi Ch=5
6802.1507                        0.001168300000000    V
-0.23           0.23      Delta : FORCE VOLTAGE Hi Ch=5 : 22.00
6802.1508                                29.9995      V
29.73          30.27      FORCE VOLTAGE Hi Ch=5
6802.1509                       -0.000495000000001    V
-0.27           0.27      Delta : FORCE VOLTAGE Hi Ch=5 : 30.00
6802.1600                                 0.0004      V
-0.12           0.12      FORCE VOLTAGE Hi Ch=6
6802.1601                        0.000399425684000    V
-0.12           0.12      Delta : FORCE VOLTAGE Hi Ch=6 : 0.00
6802.1602                                 6.9993      V
6.845          7.155      FORCE VOLTAGE Hi Ch=6
6802.1603                       -0.000749590000000    V              -
0.155          0.155      Delta : FORCE VOLTAGE Hi Ch=6 : 7.00
6802.1604                                15.0006      V
14.81           15.2      FORCE VOLTAGE Hi Ch=6
6802.1605                        0.000559300000001    V              -
0.195          0.195      Delta : FORCE VOLTAGE Hi Ch=6 : 15.00
6802.1606                                22.0005      V
21.77          22.23      FORCE VOLTAGE Hi Ch=6
6802.1607                        0.000481600000001    V
-0.23           0.23      Delta : FORCE VOLTAGE Hi Ch=6 : 22.00
6802.1608                                29.9991      V
29.73          30.27      FORCE VOLTAGE Hi Ch=6
6802.1609                       -0.000859299999998    V
-0.27           0.27      Delta : FORCE VOLTAGE Hi Ch=6 : 30.00
6802.1700                                 0.0009      V
-0.12           0.12      FORCE VOLTAGE Hi Ch=7
6802.1701                        0.000874831341000    V
-0.12           0.12      Delta : FORCE VOLTAGE Hi Ch=7 : 0.00
6802.1702                                 6.9993      V
6.845          7.155      FORCE VOLTAGE Hi Ch=7
6802.1703                       -0.000722170000000    V              -
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0.155                0.155       Delta : FORCE VOLTAGE Hi Ch=7 : 7.00
6802.1704                                  15.0002      V
14.81                 15.2       FORCE VOLTAGE Hi Ch=7
6802.1705                           0.000210800000000      V                -
0.195                0.195       Delta : FORCE VOLTAGE Hi Ch=7 : 15.00
6802.1706                                  22.0004      V
21.77                22.23       FORCE VOLTAGE Hi Ch=7
6802.1707                           0.000385300000001      V
-0.23                 0.23       Delta : FORCE VOLTAGE Hi Ch=7 : 22.00
6802.1708                                  29.9994      V
29.73                30.27       FORCE VOLTAGE Hi Ch=7
6802.1709                          -0.000611299999999      V
-0.27                 0.27       Delta : FORCE VOLTAGE Hi Ch=7 : 30.00
   6803.0                                  100.067   Ohms
50                   150       Load Resistance
   6803.1                           0.066833000000003   Ohms
-50                   50       Delta : Load Resistance : 100.00
6803.1000                                  100.116     mA
98                   102       FORCE CURRENT Ch=0
6803.1001                           0.116323852539068     mA
-2                    2       Delta : FORCE CURRENT Ch=0 : 100.00
6803.1002                                   9.985     mA
8.44                 11.6       FORCE CURRENT Ch=0
6803.1003                          -0.014748191833496     mA                -
1.5622               1.5622       Delta : FORCE CURRENT Ch=0 : 10.00
6803.1004                                  80.060     mA
77.3                 82.7       FORCE CURRENT Ch=0
6803.1005                           0.059566497802734     mA                -
2.6668               2.6668       Delta : FORCE CURRENT Ch=0 : 80.00
6803.1006                                  14.936     mA
13                   17       FORCE CURRENT Ch=0
6803.1007                          -0.064181613922120     mA                -
2.0132               2.0132       Delta : FORCE CURRENT Ch=0 : 15.00
6803.1008                                  59.936     mA
56.9                 63.1       FORCE CURRENT Ch=0
6803.1009                          -0.064172363281251     mA                -
3.0848               3.0848       Delta : FORCE CURRENT Ch=0 : 60.00
6803.1010                                  19.938     mA
17.6                 22.4       FORCE CURRENT Ch=0
6803.1011                          -0.061518859863281     mA                -
```

2.3742 2.3742 Delta : FORCE CURRENT Ch=0 : 20.00
6803.1012 40.054 mA
38 42 FORCE CURRENT Ch=0
6803.1013 0.054280471801761 mA -
1.9847 1.9847 Delta : FORCE CURRENT Ch=0 : 40.00
6803.1014 30.028 mA
28.2 31.8 FORCE CURRENT Ch=0
6803.1015 0.027925491333008 mA -
1.8178 1.8178 Delta : FORCE CURRENT Ch=0 : 30.00
6803.1100 100.169 mA
98 102 FORCE CURRENT Ch=1
6803.1101 0.168955993652347 mA
-2 2 Delta : FORCE CURRENT Ch=1 : 100.00
6803.1102 9.963 mA
8.44 11.6 FORCE CURRENT Ch=1
6803.1103 -0.037211704254151 mA -
1.5622 1.5622 Delta : FORCE CURRENT Ch=1 : 10.00
6803.1104 79.954 mA
77.3 82.7 FORCE CURRENT Ch=1
6803.1105 -0.045692443847656 mA -
2.6668 2.6668 Delta : FORCE CURRENT Ch=1 : 80.00
6803.1106 14.895 mA
13 17 FORCE CURRENT Ch=1
6803.1107 -0.105285263061523 mA -
2.0132 2.0132 Delta : FORCE CURRENT Ch=1 : 15.00
6803.1108 59.802 mA
56.9 63.1 FORCE CURRENT Ch=1
6803.1109 -0.198140716552736 mA -
3.0848 3.0848 Delta : FORCE CURRENT Ch=1 : 60.00
6803.1110 19.913 mA
17.6 22.4 FORCE CURRENT Ch=1
6803.1111 -0.086850166320801 mA -
2.3742 2.3742 Delta : FORCE CURRENT Ch=1 : 20.00
6803.1112 39.947 mA
38 42 FORCE CURRENT Ch=1
6803.1113 -0.052779769897462 mA -
1.9847 1.9847 Delta : FORCE CURRENT Ch=1 : 40.00
6803.1114 29.965 mA
28.2 31.8 FORCE CURRENT Ch=1
6803.1115 -0.035163307189940 mA -

1.8178 1.8178 Delta : FORCE CURRENT Ch=1 : 30.00
6803.1200 100.155 mA
98 102 FORCE CURRENT Ch=2
6803.1201 0.154601287841800 mA
-2 2 Delta : FORCE CURRENT Ch=2 : 100.00
6803.1202 9.993 mA
8.44 11.6 FORCE CURRENT Ch=2
6803.1203 -0.006623077392579 mA -
1.5622 1.5622 Delta : FORCE CURRENT Ch=2 : 10.00
6803.1204 80.026 mA
77.3 82.7 FORCE CURRENT Ch=2
6803.1205 0.026074218749997 mA -
2.6668 2.6668 Delta : FORCE CURRENT Ch=2 : 80.00
6803.1206 14.916 mA
13 17 FORCE CURRENT Ch=2
6803.1207 -0.083777618408202 mA -
2.0132 2.0132 Delta : FORCE CURRENT Ch=2 : 15.00
6803.1208 59.845 mA
56.9 63.1 FORCE CURRENT Ch=2
6803.1209 -0.155077743530271 mA -
3.0848 3.0848 Delta : FORCE CURRENT Ch=2 : 60.00
6803.1210 19.948 mA
17.6 22.4 FORCE CURRENT Ch=2
6803.1211 -0.052437782287598 mA -
2.3742 2.3742 Delta : FORCE CURRENT Ch=2 : 20.00
6803.1212 40.020 mA
38 42 FORCE CURRENT Ch=2
6803.1213 0.020347213745119 mA -
1.9847 1.9847 Delta : FORCE CURRENT Ch=2 : 40.00
6803.1214 30.042 mA
28.2 31.8 FORCE CURRENT Ch=2
6803.1215 0.041785812377931 mA -
1.8178 1.8178 Delta : FORCE CURRENT Ch=2 : 30.00
6803.1300 100.202 mA
98 102 FORCE CURRENT Ch=3
6803.1301 0.202443695068354 mA
-2 2 Delta : FORCE CURRENT Ch=3 : 100.00
6803.1302 10.038 mA
8.44 11.6 FORCE CURRENT Ch=3
6803.1303 0.038304138183595 mA -

1.5622 1.5622 Delta : FORCE CURRENT Ch=3 : 10.00
6803.1304 80.179 mA
77.3 82.7 FORCE CURRENT Ch=3
6803.1305 0.179176330566406 mA -
2.6668 2.6668 Delta : FORCE CURRENT Ch=3 : 80.00
6803.1306 14.980 mA
13 17 FORCE CURRENT Ch=3
6803.1307 -0.020210456848144 mA -
2.0132 2.0132 Delta : FORCE CURRENT Ch=3 : 15.00
6803.1308 60.032 mA
56.9 63.1 FORCE CURRENT Ch=3
6803.1309 0.031518554687501 mA -
3.0848 3.0848 Delta : FORCE CURRENT Ch=3 : 60.00
6803.1310 20.008 mA
17.6 22.4 FORCE CURRENT Ch=3
6803.1311 0.008261299133302 mA -
2.3742 2.3742 Delta : FORCE CURRENT Ch=3 : 20.00
6803.1312 40.085 mA
38 42 FORCE CURRENT Ch=3
6803.1313 0.085347366333011 mA -
1.9847 1.9847 Delta : FORCE CURRENT Ch=3 : 40.00
6803.1314 30.106 mA
28.2 31.8 FORCE CURRENT Ch=3
6803.1315 0.106308555603029 mA -
1.8178 1.8178 Delta : FORCE CURRENT Ch=3 : 30.00
6803.1400 100.174 mA
98 102 FORCE CURRENT Ch=4
6803.1401 0.173739624023440 mA
-2 2 Delta : FORCE CURRENT Ch=4 : 100.00
6803.1402 9.935 mA
8.44 11.6 FORCE CURRENT Ch=4
6803.1403 -0.065410709381103 mA -
1.5622 1.5622 Delta : FORCE CURRENT Ch=4 : 10.00
6803.1404 80.227 mA
77.3 82.7 FORCE CURRENT Ch=4
6803.1405 0.227023315429690 mA -
2.6668 2.6668 Delta : FORCE CURRENT Ch=4 : 80.00
6803.1406 14.921 mA
13 17 FORCE CURRENT Ch=4
6803.1407 -0.079476070404052 mA -

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2.0132          2.0132      Delta : FORCE CURRENT Ch=4 : 15.00
6803.1408                                59.878     mA
56.9            63.1      FORCE CURRENT Ch=4
6803.1409                       -0.121586608886716     mA          -
3.0848          3.0848      Delta : FORCE CURRENT Ch=4 : 60.00
6803.1410                                19.965     mA
17.6            22.4      FORCE CURRENT Ch=4
6803.1411                       -0.035231781005859     mA          -
2.3742          2.3742      Delta : FORCE CURRENT Ch=4 : 20.00
6803.1412                                39.996     mA
38              42        FORCE CURRENT Ch=4
6803.1413                       -0.003550720214847     mA          -
1.9847          1.9847      Delta : FORCE CURRENT Ch=4 : 40.00
6803.1414                                30.061     mA
28.2            31.8      FORCE CURRENT Ch=4
6803.1415                        0.060903739929199     mA          -
1.8178          1.8178      Delta : FORCE CURRENT Ch=4 : 30.00
6803.1500                               100.183     mA
98             102        FORCE CURRENT Ch=5
6803.1501                        0.183307647705078     mA
-2               2        Delta : FORCE CURRENT Ch=5 : 100.00
6803.1502                                10.002     mA
8.44            11.6      FORCE CURRENT Ch=5
6803.1503                        0.001501941680909     mA          -
1.5622          1.5622      Delta : FORCE CURRENT Ch=5 : 10.00
6803.1504                                80.122     mA
77.3            82.7      FORCE CURRENT Ch=5
6803.1505                        0.121765899658200     mA          -
2.6668          2.6668      Delta : FORCE CURRENT Ch=5 : 80.00
6803.1506                                14.976     mA
13              17        FORCE CURRENT Ch=5
6803.1507                       -0.023556137084961     mA          -
2.0132          2.0132      Delta : FORCE CURRENT Ch=5 : 15.00
6803.1508                                60.017     mA
56.9            63.1      FORCE CURRENT Ch=5
6803.1509                        0.017164993286130     mA          -
3.0848          3.0848      Delta : FORCE CURRENT Ch=5 : 60.00
6803.1510                                20.016     mA
17.6            22.4      FORCE CURRENT Ch=5
6803.1511                        0.015908432006835     mA          -
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2.3742 2.3742 Delta : FORCE CURRENT Ch=5 : 20.00
6803.1512 40.130 mA
38 42 FORCE CURRENT Ch=5
6803.1513 0.130274963378909 mA -
1.9847 1.9847 Delta : FORCE CURRENT Ch=5 : 40.00
6803.1514 30.106 mA
28.2 31.8 FORCE CURRENT Ch=5
6803.1515 0.106308746337891 mA -
1.8178 1.8178 Delta : FORCE CURRENT Ch=5 : 30.00
6803.1600 100.179 mA
98 102 FORCE CURRENT Ch=6
6803.1601 0.178523254394534 mA
-2 2 Delta : FORCE CURRENT Ch=6 : 100.00
6803.1602 9.986 mA
8.44 11.6 FORCE CURRENT Ch=6
6803.1603 -0.013792419433594 mA -
1.5622 1.5622 Delta : FORCE CURRENT Ch=6 : 10.00
6803.1604 80.165 mA
77.3 82.7 FORCE CURRENT Ch=6
6803.1605 0.164825439453125 mA -
2.6668 2.6668 Delta : FORCE CURRENT Ch=6 : 80.00
6803.1606 14.975 mA
13 17 FORCE CURRENT Ch=6
6803.1607 -0.024990081787109 mA -
2.0132 2.0132 Delta : FORCE CURRENT Ch=6 : 15.00
6803.1608 59.821 mA
56.9 63.1 FORCE CURRENT Ch=6
6803.1609 -0.179001617431638 mA -
3.0848 3.0848 Delta : FORCE CURRENT Ch=6 : 60.00
6803.1610 20.028 mA
17.6 22.4 FORCE CURRENT Ch=6
6803.1611 0.028335189819337 mA -
2.3742 2.3742 Delta : FORCE CURRENT Ch=6 : 20.00
6803.1612 40.059 mA
38 42 FORCE CURRENT Ch=6
6803.1613 0.058583450317386 mA -
1.9847 1.9847 Delta : FORCE CURRENT Ch=6 : 40.00
6803.1614 30.107 mA
28.2 31.8 FORCE CURRENT Ch=6
6803.1615 0.107264900207518 mA -

1.8178 1.8178 Delta : FORCE CURRENT Ch=6 : 30.00
6803.1700 100.064 mA
98 102 FORCE CURRENT Ch=7
6803.1701 0.063694763183591 mA
-2 2 Delta : FORCE CURRENT Ch=7 : 100.00
6803.1702 10.030 mA
8.44 11.6 FORCE CURRENT Ch=7
6803.1703 0.029701042175294 mA -
1.5622 1.5622 Delta : FORCE CURRENT Ch=7 : 10.00
6803.1704 80.088 mA
77.3 82.7 FORCE CURRENT Ch=7
6803.1705 0.088272857666013 mA -
2.6668 2.6668 Delta : FORCE CURRENT Ch=7 : 80.00
6803.1706 14.949 mA
13 17 FORCE CURRENT Ch=7
6803.1707 -0.050799274444580 mA -
2.0132 2.0132 Delta : FORCE CURRENT Ch=7 : 15.00
6803.1708 60.012 mA
56.9 63.1 FORCE CURRENT Ch=7
6803.1709 0.012380218505861 mA -
3.0848 3.0848 Delta : FORCE CURRENT Ch=7 : 60.00
6803.1710 19.957 mA
17.6 22.4 FORCE CURRENT Ch=7
6803.1711 -0.043357086181640 mA -
2.3742 2.3742 Delta : FORCE CURRENT Ch=7 : 20.00
6803.1712 40.064 mA
38 42 FORCE CURRENT Ch=7
6803.1713 0.063840103149417 mA -
1.9847 1.9847 Delta : FORCE CURRENT Ch=7 : 40.00
6803.1714 30.040 mA
28.2 31.8 FORCE CURRENT Ch=7
6803.1715 0.039874649047853 mA -
1.8178 1.8178 Delta : FORCE CURRENT Ch=7 : 30.00
6804.1000 0.9986 V
0.935 1.065 FORCE CURRENT VOLTAGE CLAMP Ch=0
6804.1001 -0.001388818000000 V -
0.065 0.065 Delta : FORCE CURRENT VOLTAGE CLAMP Ch=0 : 1.00
6804.1002 5.0020 V
4.915 5.085 FORCE CURRENT VOLTAGE CLAMP Ch=0
6804.1003 0.002017970000000 V -

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0.085          0.085     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=0 : 5.00
6804.1004                                10.0009      V
9.89          10.11      FORCE CURRENT VOLTAGE CLAMP Ch=0
6804.1005                         0.000912200000000      V
-0.11          0.11      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=0 : 10.00
6804.1006                                19.9987      V
19.84         20.16      FORCE CURRENT VOLTAGE CLAMP Ch=0
6804.1007                        -0.001341799999999      V
-0.16          0.16      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=0 : 20.00
6804.1008                                30.0006      V
29.79         30.21      FORCE CURRENT VOLTAGE CLAMP Ch=0
6804.1009                         0.000612300000000      V
-0.21          0.21      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=0 : 30.00
6804.1100                                 0.9987      V
0.935          1.065     FORCE CURRENT VOLTAGE CLAMP Ch=1
6804.1101                        -0.001281381000000      V                -
0.065          0.065     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=1 : 1.00
6804.1102                                 5.0017      V
4.915          5.085     FORCE CURRENT VOLTAGE CLAMP Ch=1
6804.1103                         0.001719240000000      V                -
0.085          0.085     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=1 : 5.00
6804.1104                                10.0007      V
9.89          10.11      FORCE CURRENT VOLTAGE CLAMP Ch=1
6804.1105                         0.000722900000000      V
-0.11          0.11      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=1 : 10.00
6804.1106                                19.9987      V
19.84         20.16      FORCE CURRENT VOLTAGE CLAMP Ch=1
6804.1107                        -0.001255000000000      V
-0.16          0.16      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=1 : 20.00
6804.1108                                30.0009      V
29.79         30.21      FORCE CURRENT VOLTAGE CLAMP Ch=1
6804.1109                         0.000859299999998      V
-0.21          0.21      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=1 : 30.00
6804.1200                                 0.9986      V
0.935          1.065     FORCE CURRENT VOLTAGE CLAMP Ch=2
6804.1201                        -0.001402736000000      V                -
0.065          0.065     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=2 : 1.00
6804.1202                                 5.0019      V
4.915          5.085     FORCE CURRENT VOLTAGE CLAMP Ch=2
6804.1203                         0.001929040000000      V                -
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0.085          0.085     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=2 : 5.00
6804.1204                                10.0012      V
9.89          10.11      FORCE CURRENT VOLTAGE CLAMP Ch=2
6804.1205                         0.001202599999999      V
-0.11          0.11      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=2 : 10.00
6804.1206                                19.9984      V
19.84         20.16      FORCE CURRENT VOLTAGE CLAMP Ch=2
6804.1207                        -0.001614600000000      V
-0.16          0.16      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=2 : 20.00
6804.1208                                30.0007      V
29.79         30.21      FORCE CURRENT VOLTAGE CLAMP Ch=2
6804.1209                         0.000659899999999      V
-0.21          0.21      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=2 : 30.00
6804.1300                                 0.9990      V
0.935          1.065     FORCE CURRENT VOLTAGE CLAMP Ch=3
6804.1301                        -0.001020074000000      V                -
0.065          0.065     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=3 : 1.00
6804.1302                                 5.0014      V
4.915          5.085     FORCE CURRENT VOLTAGE CLAMP Ch=3
6804.1303                         0.001448630000000      V                -
0.085          0.085     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=3 : 5.00
6804.1304                                10.0006      V
9.89          10.11      FORCE CURRENT VOLTAGE CLAMP Ch=3
6804.1305                         0.000568400000001      V
-0.11          0.11      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=3 : 10.00
6804.1306                                19.9989      V
19.84         20.16      FORCE CURRENT VOLTAGE CLAMP Ch=3
6804.1307                        -0.001119599999999      V
-0.16          0.16      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=3 : 20.00
6804.1308                                30.0004      V
29.79         30.21      FORCE CURRENT VOLTAGE CLAMP Ch=3
6804.1309                         0.000422499999999      V
-0.21          0.21      Delta : FORCE CURRENT VOLTAGE CLAMP Ch=3 : 30.00
6804.1400                                 0.9986      V
0.935          1.065     FORCE CURRENT VOLTAGE CLAMP Ch=4
6804.1401                        -0.001444846000000      V                -
0.065          0.065     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=4 : 1.00
6804.1402                                 5.0014      V
4.915          5.085     FORCE CURRENT VOLTAGE CLAMP Ch=4
6804.1403                         0.001410720000000      V                -
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0.085          0.085    Delta : FORCE CURRENT VOLTAGE CLAMP Ch=4 : 5.00
6804.1404                                10.0008      V
9.89          10.11     FORCE CURRENT VOLTAGE CLAMP Ch=4
6804.1405                         0.000820600000001      V
-0.11          0.11     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=4 : 10.00
6804.1406                                19.9986      V
19.84         20.16     FORCE CURRENT VOLTAGE CLAMP Ch=4
6804.1407                        -0.001449600000001      V
-0.16          0.16     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=4 : 20.00
6804.1408                                30.0004      V
29.79         30.21     FORCE CURRENT VOLTAGE CLAMP Ch=4
6804.1409                         0.000415799999999      V
-0.21          0.21     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=4 : 30.00
6804.1500                                 0.9990      V
0.935          1.065    FORCE CURRENT VOLTAGE CLAMP Ch=5
6804.1501                        -0.000960439000000      V                -
0.065          0.065    Delta : FORCE CURRENT VOLTAGE CLAMP Ch=5 : 1.00
6804.1502                                 5.0013      V
4.915          5.085    FORCE CURRENT VOLTAGE CLAMP Ch=5
6804.1503                         0.001274350000000      V               -
0.085          0.085    Delta : FORCE CURRENT VOLTAGE CLAMP Ch=5 : 5.00
6804.1504                                10.0001      V
9.89          10.11     FORCE CURRENT VOLTAGE CLAMP Ch=5
6804.1505                         0.000091100000001      V
-0.11          0.11     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=5 : 10.00
6804.1506                                19.9998      V
19.84         20.16     FORCE CURRENT VOLTAGE CLAMP Ch=5
6804.1507                        -0.000203100000000      V
-0.16          0.16     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=5 : 20.00
6804.1508                                30.0004      V
29.79         30.21     FORCE CURRENT VOLTAGE CLAMP Ch=5
6804.1509                         0.000387199999999      V
-0.21          0.21     Delta : FORCE CURRENT VOLTAGE CLAMP Ch=5 : 30.00
6804.1600                                 0.9988      V
0.935          1.065    FORCE CURRENT VOLTAGE CLAMP Ch=6
6804.1601                        -0.001184374000000      V                -
0.065          0.065    Delta : FORCE CURRENT VOLTAGE CLAMP Ch=6 : 1.00
6804.1602                                 5.0019      V
4.915          5.085    FORCE CURRENT VOLTAGE CLAMP Ch=6
6804.1603                         0.001853470000000      V               -
```

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0.085                0.085       Delta : FORCE CURRENT VOLTAGE CLAMP Ch=6 : 5.00
6804.1604                                      10.0008      V
9.89                10.11       FORCE CURRENT VOLTAGE CLAMP Ch=6
6804.1605                                 0.000790600000000      V
-0.11                0.11       Delta : FORCE CURRENT VOLTAGE CLAMP Ch=6 : 10.00
6804.1606                                      19.9980      V
19.84                20.16       FORCE CURRENT VOLTAGE CLAMP Ch=6
6804.1607                                -0.001967400000002      V
-0.16                0.16       Delta : FORCE CURRENT VOLTAGE CLAMP Ch=6 : 20.00
6804.1608                                      30.0003      V
29.79                30.21       FORCE CURRENT VOLTAGE CLAMP Ch=6
6804.1609                                 0.000264200000000      V
-0.21                0.21       Delta : FORCE CURRENT VOLTAGE CLAMP Ch=6 : 30.00
6804.1700                                       0.9986      V
0.935                1.065       FORCE CURRENT VOLTAGE CLAMP Ch=7
6804.1701                               -0.001397192000000      V                -
0.065                0.065       Delta : FORCE CURRENT VOLTAGE CLAMP Ch=7 : 1.00
6804.1702                                       5.0018      V
4.915                5.085       FORCE CURRENT VOLTAGE CLAMP Ch=7
6804.1703                                 0.001753810000000      V                -
0.085                0.085       Delta : FORCE CURRENT VOLTAGE CLAMP Ch=7 : 5.00
6804.1704                                      10.0011      V
9.89                10.11       FORCE CURRENT VOLTAGE CLAMP Ch=7
6804.1705                                 0.001110100000000      V
-0.11                0.11       Delta : FORCE CURRENT VOLTAGE CLAMP Ch=7 : 10.00
6804.1706                                      19.9980      V
19.84                20.16       FORCE CURRENT VOLTAGE CLAMP Ch=7
6804.1707                                -0.002026600000001      V
-0.16                0.16       Delta : FORCE CURRENT VOLTAGE CLAMP Ch=7 : 20.00
6804.1708                                      30.0009      V
29.79                30.21       FORCE CURRENT VOLTAGE CLAMP Ch=7
6804.1709                                 0.000870700000000      V
-0.21                0.21       Delta : FORCE CURRENT VOLTAGE CLAMP Ch=7 : 30.00
6600 - ESU1200 Calibration Test --- <1 ESU1200 to Cal>
6600 - ESU1200 Calibration Test --- <1 ESU1200 to Check>
Datalog for: Check ESU1200-18          REV 06, Site #0, Bin #1
  TEST#                                          RESULT  UNITS
LOWER                UPPER ALARM TEST NAME
--------- ---------------------------------------------- ------ ---------------
----- ------------------- ----- ----------------------------------------------
```

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--------------------------
   6600.0                                                0
0       If this failed there are Fatal Errors during Startup, Check System
Monitor
6600.1000                                    ETS1UOJUM00038
COMPUTER INFORMATION - Name
6600.1001                                       1000.000000      V
DIAG/CAL INFORMATION - Maximum Voltage
6600.1101                                                0
0       DIB INFORMATION - DIB Information Read Status
6600.1102                                   ASM7080 R1 BOARD
DIB INFORMATION - Assembly Number
6600.1103                                             10171
DIB INFORMATION -
6600.1300
4674       RESOURCE INFORMATION - Board ID
6600.1402                                                0
0       RESOURCE INFORMATION - Board Info Read Status
6600.1403                          ASM7130G_REV006_SN14010078
RESOURCE INFORMATION - Assembly Number
6600.1404                                               06
RESOURCE INFORMATION - Revision Number
6600.1405                                             10078
RESOURCE INFORMATION -
6600.1406
RESOURCE INFORMATION - Manufacturer ID
6600.1407                          Mon Jun 24 08:00:00 2019
RESOURCE INFORMATION - Manufacture Date
6600.1408                                                0
RESOURCE INFORMATION - Original System
6600.1409
RESOURCE INFORMATION - Service Technician
6600.1410                          Thu Sep 19 08:00:00 2019
RESOURCE INFORMATION - Service Date
6600.1411                          Thu Jan  1 08:00:00 1970
RESOURCE INFORMATION - Power On Time
6600.1412                                                0  deg C
RESOURCE INFORMATION - Highest Temp
6600.1413                                                0  deg C
RESOURCE INFORMATION - Lowest Temp
```

```
6600.1414                          Thu Sep 19 08:00:00 2019
RESOURCE INFORMATION - Highest Temp Date
6600.1415                          Thu Sep 19 08:00:00 2019
RESOURCE INFORMATION - Lowest Temp Date
6600.1416                          Thu Sep 19 08:00:00 2019
RESOURCE INFORMATION - Eco Date
6600.1417                                                  0
RESOURCE INFORMATION - Eco History
6600.1501                                                  0
0       PLD REVISION INFORMATION
6600.1503                                                  0
0       PLD REVISION INFORMATION
6600.1505                                                  1
1       PLD REVISION INFORMATION
6600.1506                           DATA[0]={0, 0, 0, 0, 2}
PLD REVISION INFORMATION
6600.1601                                                  0
0       NVM REGION(S) INFORMATION
6600.1602         NVM DEVICE TYPE=0x2, NVM REGION TYPE=0x5
NVM REGION(S) INFORMATION
6600.1603         NVM DEVICE TYPE=0x2, NVM REGION TYPE=0x6
NVM REGION(S) INFORMATION
6600.1604         NVM DEVICE TYPE=0x1, NVM REGION TYPE=0x2
NVM REGION(S) INFORMATION
6600.1605         NVM DEVICE TYPE=0x1, NVM REGION TYPE=0x3
NVM REGION(S) INFORMATION
6600.1606         NVM DEVICE TYPE=0x1, NVM REGION TYPE=0x1
NVM REGION(S) INFORMATION
   6601.0                                           0.50  deg C
Calibration vs. Check Temp Delta (Max = 5.00 deg C)
   6601.1 Board temperature check Exp = 26.00, Act = 26.50
   6601.2                                              0 status
0
   6602.0                                        15.0004      V
14.5                 15.5       VI Force V
   6602.1                                0.000439200000001      V
-0.5                  0.5       Delta : VI Force V : 15.00
   6602.2                                         7.5000      V
7                    8       VI Force V
   6602.3                                0.000005250000000      V
```

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-0.5                0.5       Delta : VI Force V : 7.50
   6602.4                                    0.0004      V
-0.5                0.5       VI Force V
   6602.5                            0.000396371805000      V
-0.5                0.5       Delta : VI Force V : 0.00
   6602.6                                   -7.4999      V
-8                  -7       VI Force V
   6602.7                            0.000110860000000      V
-0.5                0.5       Delta : VI Force V : -7.50
   6602.8                                  -15.0004      V
-15.5               -14.5      VI Force V
   6602.9                           -0.000361000000000      V
-0.5                0.5       Delta : VI Force V : -15.00
   6603.0                                    9.9973     mA
7.5                12.5       VI Force I
   6603.1                           -0.002684300000000     mA
-2.5                2.5       Delta : VI Force I : 10.00
   6603.2                      Exp= 9.9973   Act= 9.9997       mA
IMON 2.5V range MeasureI
   6603.3                            0.002371583200011     mA                -
0.052               0.052      Delta : IMON 2.5V range MeasureI : 10.00
   6603.4                                    4.9984     mA
3.5                 6.5       VI Force I
   6603.5                           -0.001550530000000     mA
-1.5                1.5       Delta : VI Force I : 5.00
   6603.6                      Exp= 4.9984   Act= 4.9999       mA
IMON 2.5V range MeasureI
   6603.7                            0.001408752885974     mA                -
0.051               0.051      Delta : IMON 2.5V range MeasureI : 5.00
   6603.8                                   -0.0016     mA
-0.5                0.5       VI Force I
   6603.9                           -0.001649502510000     mA
-0.5                0.5       Delta : VI Force I : 0.00
  6603.10                      Exp= -0.0016  Act= -0.0031      mA
IMON 2.5V range MeasureI
  6603.11                           -0.001445333271330     mA
-0.05               0.05       Delta : IMON 2.5V range MeasureI : 0.00
  6603.12                                   -5.0016     mA
-6.5                -3.5       VI Force I
  6603.13                           -0.001621090000000     mA
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-1.5                    1.5        Delta : VI Force I : -5.00
  6603.14                        Exp= -5.0016  Act= -5.0033       mA
IMON 2.5V range MeasureI
  6603.15                                -0.001712679447769      mA              -
0.051                  0.051        Delta : IMON 2.5V range MeasureI : -5.00
  6603.16                                      -10.0016      mA
-12.5                   -7.5        VI Force I
  6603.17                                -0.001641699999999      mA
-2.5                    2.5        Delta : VI Force I : -10.00
  6603.18                        Exp= -10.0016 Act= -10.0066     mA
IMON 2.5V range MeasureI
  6603.19                                -0.004916253170114      mA              -
0.052                  0.052        Delta : IMON 2.5V range MeasureI : -10.00
   6604.0                                      -14.9961       V
-18.5                  -11.5        ADC A 15V range Frc
   6604.1                                 0.004151671935418      V           -
3.5000596              3.5000596        Delta : ADC A 15V range Frc : -15.00
   6604.2                        Exp= -15.0003 Act= -14.9961       V
ADC A 15V range Meas
   6604.3                                 0.004151671935418      V              -
0.503                  0.503        Delta : ADC A 15V range Meas : -15.00
   6604.4                                      -7.4986       V
-9.5                   -5.5        ADC A 15V range Frc
   6604.5                                 0.001222375333485      V          -
1.99996047             1.99996047        Delta : ADC A 15V range Frc : -7.50
   6604.6                        Exp= -7.4998  Act= -7.4986       V
ADC A 15V range Meas
   6604.7                                 0.001222375333485      V              -
0.5015                 0.5015        Delta : ADC A 15V range Meas : -7.50
   6604.8                                      0.0002       V              -
0.4997                 0.5004        ADC A 15V range Frc
   6604.9                                -0.000149216629432      V     -
0.5000723215314        0.5000723215314        Delta : ADC A 15V range Frc : 0.00
  6604.10                        Exp= 0.0004   Act= 0.0002        V
ADC A 15V range Meas
  6604.11                                -0.000149216629432      V
-0.5                    0.5        Delta : ADC A 15V range Meas : 0.00
  6604.12                                      7.4961       V
5.5                    9.5        ADC A 15V range Frc
  6604.13                                -0.003873044467722      V         -
```

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2.000004292          2.000004292       Delta : ADC A 15V range Frc : 7.50
  6604.14                        Exp= 7.5000   Act= 7.4961        V
ADC A 15V range Meas
  6604.15                              -0.003873044467722      V             -
0.5015               0.5015       Delta : ADC A 15V range Meas : 7.50
  6604.16                                      14.9970      V
11.5                 18.5       ADC A 15V range Frc
  6604.17                              -0.003546154144191      V           -
3.50011006           3.50011006       Delta : ADC A 15V range Frc : 15.00
  6604.18                        Exp= 15.0006  Act= 14.9970       V
ADC A 15V range Meas
  6604.19                              -0.003546154144191      V            -
0.503                0.503       Delta : ADC A 15V range Meas : 15.00
  6604.20                                      -9.9995      V
-12.5                 -7.5       ADC A 10V range Frc
  6604.21                               0.000582886458130      V          -
2.50001144           2.50001144       Delta : ADC A 10V range Frc : -10.00
  6604.22                        Exp= -10.0001 Act= -9.9995       V
ADC A 10V range Meas
  6604.23                               0.000582886458130      V             -
0.502                0.502       Delta : ADC A 10V range Meas : -10.00
  6604.24                                      -4.9998      V
-6.5                 -3.5       ADC A 10V range Frc
  6604.25                               0.000084724555892      V         -
1.499967432          1.499967432       Delta : ADC A 10V range Frc : -5.00
  6604.26                        Exp= -4.9998  Act= -4.9998       V
ADC A 10V range Meas
  6604.27                               0.000084724555892      V              -
0.501                0.501       Delta : ADC A 10V range Meas : -5.00
  6604.28                                       0.0017      V              -
0.4996               0.5006       ADC A 10V range Frc
  6604.29                               0.001180607314910      V     -
0.5000957392302      0.5000957392302       Delta : ADC A 10V range Frc : 0.00
  6604.30                        Exp= 0.0005   Act= 0.0017        V
ADC A 10V range Meas
  6604.31                               0.001180607314910      V
-0.5                  0.5       Delta : ADC A 10V range Meas : 0.00
  6604.32                                      4.9977      V
3.5                  6.5       ADC A 10V range Frc
  6604.33                              -0.002706244924111      V         -
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1.500077868          1.500077868       Delta : ADC A 10V range Frc : 5.00
  6604.34                        Exp= 5.0004   Act= 4.9977        V
ADC A 10V range Meas
  6604.35                              -0.002706244924111      V              -
0.501                0.501       Delta : ADC A 10V range Meas : 5.00
  6604.36                                        9.9971      V
7.5                  12.5        ADC A 10V range Frc
  6604.37                              -0.002937734300737      V            -
2.50001754           2.50001754       Delta : ADC A 10V range Frc : 10.00
  6604.38                        Exp= 10.0001  Act= 9.9971        V
ADC A 10V range Meas
  6604.39                              -0.002937734300737      V            -
0.502                0.502       Delta : ADC A 10V range Meas : 10.00
  6604.40                                       -2.4998      V             -
3.499                -1.499       ADC A 2.5V range Frc
  6604.41                              -0.000425433248598      V         -
0.999867678          0.999867678       Delta : ADC A 2.5V range Frc : -2.50
  6604.42                        Exp= -2.4993  Act= -2.4998       V
ADC A 2.5V range Meas
  6604.43                              -0.000425433248598      V           -
0.0700125            0.0700125       Delta : ADC A 2.5V range Meas : -2.50
  6604.44                                       -1.2488      V
-2              -0.5002       ADC A 2.5V range Frc
  6604.45                               0.001388841678833      V         -
0.750042128          0.750042128       Delta : ADC A 2.5V range Frc : -1.25
  6604.46                        Exp= -1.2502  Act= -1.2488       V
ADC A 2.5V range Meas
  6604.47                               0.001388841678833      V          -
0.07000625           0.07000625       Delta : ADC A 2.5V range Meas : -1.25
  6604.48                                       -0.0016      V              -
0.4996               0.5006       ADC A 2.5V range Frc
  6604.49                              -0.002049855353737      V     -
0.5000971428176      0.5000971428176       Delta : ADC A 2.5V range Frc : 0.00
  6604.50                        Exp= 0.0005   Act= -0.0016       V
ADC A 2.5V range Meas
  6604.51                              -0.002049855353737      V
-0.07                 0.07       Delta : ADC A 2.5V range Meas : 0.00
  6604.52                                       1.2498      V
0.5001                   2       ADC A 2.5V range Frc
  6604.53                              -0.000340483495099      V         -
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0.750024688          0.750024688       Delta : ADC A 2.5V range Frc : 1.25
  6604.54                      Exp= 1.2501    Act= 1.2498        V
ADC A 2.5V range Meas
  6604.55                              -0.000340483495099      V          -
0.07000625           0.07000625       Delta : ADC A 2.5V range Meas : 1.25
  6604.56                                        2.5001      V
1.5                  3.5       ADC A 2.5V range Frc
  6604.57                              -0.000235668099485      V         -
1.000061726          1.000061726       Delta : ADC A 2.5V range Frc : 2.50
  6604.58                      Exp= 2.5003    Act= 2.5001        V
ADC A 2.5V range Meas
  6604.59                              -0.000235668099485      V          -
0.0700125            0.0700125       Delta : ADC A 2.5V range Meas : 2.50
  6604.60                                      -15.0046      V
-18.5                -11.5       VMON 2.5V range Frc
  6604.61                              -0.004306853694157      V          -
3.50004912           3.50004912       Delta : VMON 2.5V range Frc : -15.00
  6604.62                      Exp= -15.0002 Act= -15.0046      V
VMON 2.5V range Meas
  6604.63                              -0.004306853694157      V              -
0.503                0.503       Delta : VMON 2.5V range Meas : -15.00
  6604.64                                      -10.0101      V
-12.5                 -7.5       VMON 2.5V range Frc
  6604.65                              -0.010066699937113      V          -
2.50001278           2.50001278       Delta : VMON 2.5V range Frc : -10.00
  6604.66                      Exp= -10.0001 Act= -10.0101      V
VMON 2.5V range Meas
  6604.67                              -0.010066699937113      V              -
0.502                0.502       Delta : VMON 2.5V range Meas : -10.00
  6604.68                                       -5.0014      V
-6.5                 -3.5       VMON 2.5V range Frc
  6604.69                              -0.001570363313602      V         -
1.499965764          1.499965764       Delta : VMON 2.5V range Frc : -5.00
  6604.70                      Exp= -4.9998  Act= -5.0014       V
VMON 2.5V range Meas
  6604.71                              -0.001570363313602      V              -
0.501                0.501       Delta : VMON 2.5V range Meas : -5.00
  6604.72                                        0.0293      V              -
0.4996               0.5006       VMON 2.5V range Frc
  6604.73                               0.028855548420703      V     -
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0.5000970689434      0.5000970689434       Delta : VMON 2.5V range Frc : 0.00
  6604.74                        Exp= 0.0005    Act= 0.0293        V
VMON 2.5V range Meas
  6604.75                                  0.028855548420703      V
-0.5                  0.5       Delta : VMON 2.5V range Meas : 0.00
  6604.76                                             5.0150      V
3.5                 6.501       VMON 2.5V range Frc
  6604.77                                  0.014534391996827      V        -
1.500092792          1.500092792       Delta : VMON 2.5V range Frc : 5.00
  6604.78                        Exp= 5.0005    Act= 5.0150        V
VMON 2.5V range Meas
  6604.79                                  0.014534391996827      V          -
0.501                0.501       Delta : VMON 2.5V range Meas : 5.00
  6604.80                                             10.0089      V
7.5                 12.5       VMON 2.5V range Frc
  6604.81                                  0.008793690289563      V           -
2.5000245            2.5000245       Delta : VMON 2.5V range Frc : 10.00
  6604.82                        Exp= 10.0001  Act= 10.0089       V
VMON 2.5V range Meas
  6604.83                                  0.008793690289563      V             -
0.502                0.502       Delta : VMON 2.5V range Meas : 10.00
  6604.84                                             14.9968      V
11.5                 18.5       VMON 2.5V range Frc
  6604.85                                 -0.003917074569994      V          -
3.50014266           3.50014266       Delta : VMON 2.5V range Frc : 15.00
  6604.86                        Exp= 15.0007  Act= 14.9968       V
VMON 2.5V range Meas
  6604.87                                 -0.003917074569994      V              -
0.503                0.503       Delta : VMON 2.5V range Meas : 15.00
   6605.0                                              6.7678      V              -
22.38                22.38       HVPS Set
   6605.1                                  6.767785550000000      V             -
22.375               22.375       Delta : HVPS Set : 0.00
   6605.2                        Exp= 6.7678    Act= 6.8423        V
HVPS Meas
   6605.3                                  0.074518596082212      V
-2                    2       Delta : HVPS Meas : 0.00
   6605.4                                            198.8839      V
195                  205       HVPS Set
   6605.5                                 -1.116119000000000      V
```

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-5                  5       Delta : HVPS Set : 200.00
   6605.6                    Exp= 198.8839 Act= 198.6900      V
HVPS Meas
   6605.7                            -0.193873107090326       V
-5                  5       Delta : HVPS Meas : 200.00
   6605.8                                    375.0150       V
367.4               382.6      HVPS Set
   6605.9                             0.015044999999986       V              -
7.625               7.625      Delta : HVPS Set : 375.00
  6605.10                    Exp= 375.0150 Act= 375.1073      V
HVPS Meas
  6605.11                             0.092298588959409       V              -
7.625               7.625      Delta : HVPS Meas : 375.00
  6605.12                                    550.3536       V
539.8               560.3      HVPS Set
  6605.13                             0.353638000000046       V              -
10.25               10.25      Delta : HVPS Set : 550.00
  6605.14                    Exp= 550.3536 Act= 550.8995      V
HVPS Meas
  6605.15                             0.545870844817614       V              -
10.25               10.25      Delta : HVPS Meas : 550.00
  6605.16                                    725.5023       V
712.1               737.9      HVPS Set
  6605.17                             0.502257999999983       V              -
12.875              12.875      Delta : HVPS Set : 725.00
  6605.18                    Exp= 725.5023 Act= 725.8117      V
HVPS Meas
  6605.19                             0.309457815319661       V              -
12.875              12.875      Delta : HVPS Meas : 725.00
  6605.20                                    899.5764       V
884.5               915.5      HVPS Set
  6605.21                            -0.423552999999970       V
-15.5                15.5      Delta : HVPS Set : 900.00
  6605.22                    Exp= 899.5764 Act= 900.2438      V
HVPS Meas
  6605.23                             0.667367110934038       V
-15.5                15.5      Delta : HVPS Meas : 900.00
   6606.0                                     11.1999       V
-20                  20      HV Divider 15V range Set 0V
   6606.1                             11.199896300000000       V
```

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-20                  20       Delta : HV Divider 15V range Set 0V : 0.00
   6606.2                     Exp= 11.1999  Act= 10.8256       V
HV Divider 15V range Set 0V
   6606.3                              -0.374279726989469      V
-20                  20       Delta : HV Divider 15V range Set 0V : 0.00
   6606.4                                   198.8830      V
194                  206      HV Divider 15V range Set 200V
   6606.5                              -1.116965999999990      V
-6                   6       Delta : HV Divider 15V range Set 200V : 200.00
   6606.6                     Exp= 198.8830 Act= 198.8538      V
HV Divider 15V range Set 200V
   6606.7                              -0.029241733277132      V       -
6.674112564          6.674112564       Delta : HV Divider 15V range Set 200V :
200.00
   6606.8                                   400.2662      V
390                  410      HV Divider 15V range Set 400V
   6606.9                               0.266159000000016      V
-10                   10       Delta : HV Divider 15V range Set 400V : 400.00
  6606.10                     Exp= 400.2662 Act= 399.7404      V
HV Divider 15V range Set 400V
  6606.11                              -0.525799923549528      V         -
5.740749548          5.740749548       Delta : HV Divider 15V range Set 400V :
400.00
  6606.12                                   600.7599      V
586                  614      HV Divider 15V range Set 600V
  6606.13                               0.759857000000011      V
-14                   14       Delta : HV Divider 15V range Set 600V : 600.00
  6606.14                     Exp= 600.7599 Act= 600.1836      V
HV Divider 15V range Set 600V
  6606.15                              -0.576282107484531      V         -
6.670424677          6.670424677       Delta : HV Divider 15V range Set 600V :
600.00
  6606.16                                   800.3930      V
782                  818      HV Divider 15V range Set 800V
  6606.17                               0.393036000000052      V
-18                   18       Delta : HV Divider 15V range Set 800V : 800.00
  6606.18                     Exp= 800.3930 Act= 800.2071      V
HV Divider 15V range Set 800V
  6606.19                              -0.185944476518216      V         -
7.586722128          7.586722128       Delta : HV Divider 15V range Set 800V :
```

```
800.00
  6606.20                                          11.2008      V
-20                  20       HV Divider 10V range Set 0V
  6606.21                                 11.200775100000000      V
-20                  20       Delta : HV Divider 10V range Set 0V : 0.00
  6606.22                     Exp= 11.2008  Act= 19.0349       V
HV Divider 10V range Set 0V
  6606.23                                  7.834095111310460      V         -
29.72465957          29.72465957       Delta : HV Divider 10V range Set 0V : 0.00
  6606.24                                          198.9001      V
194                  206       HV Divider 10V range Set 200V
  6606.25                                 -1.099937000000010      V
-6                    6       Delta : HV Divider 10V range Set 200V : 200.00
  6606.26                     Exp= 198.9001 Act= 198.7823      V
HV Divider 10V range Set 200V
  6606.27                                 -0.117731134771958      V         -
4.093465448          4.093465448       Delta : HV Divider 10V range Set 200V :
200.00
  6606.28                                          400.0744      V
390                  410       HV Divider 10V range Set 400V
  6606.29                                  0.074402000000021      V
-10                   10       Delta : HV Divider 10V range Set 400V : 400.00
  6606.30                     Exp= 400.0744 Act= 400.4578      V
HV Divider 10V range Set 400V
  6606.31                                  0.383426945657732      V         -
3.999084809          3.999084809       Delta : HV Divider 10V range Set 400V :
400.00
  6606.32                                          600.5511      V
586                  614       HV Divider 10V range Set 600V
  6606.33                                  0.551147000000014      V
-14                   14       Delta : HV Divider 10V range Set 600V : 600.00
  6606.34                     Exp= 600.5511 Act= 600.5488      V
HV Divider 10V range Set 600V
  6606.35                                 -0.002304211419073      V         -
6.229246474          6.229246474       Delta : HV Divider 10V range Set 600V :
600.00
  6606.36                                          800.1073      V
782                  818       HV Divider 10V range Set 800V
  6606.37                                  0.107300000000009      V
-18                   18       Delta : HV Divider 10V range Set 800V : 800.00
```

```
  6606.38                       Exp= 800.1073 Act= 800.1271      V
HV Divider 10V range Set 800V
  6606.39                                0.019761108400189      V         -
7.280316072          7.280316072       Delta : HV Divider 10V range Set 800V :
800.00
  6606.40                                            11.1987      V
-20                   20       HV Divider 2.5V range Set 0V
  6606.41                               11.198673700000000      V
-20                   20       Delta : HV Divider 2.5V range Set 0V : 0.00
  6606.42                       Exp= 11.1987  Act= 18.9639       V
HV Divider 2.5V range Set 0V
  6606.43                                7.765229598451220      V         -
26.33570573          26.33570573       Delta : HV Divider 2.5V range Set 0V :
0.00
  6606.44                                           198.8437      V
194                   206       HV Divider 2.5V range Set 200V
  6606.45                               -1.156296000000000      V
-6                    6       Delta : HV Divider 2.5V range Set 200V : 200.00
  6606.46                       Exp= 198.8437 Act= 198.8109      V
HV Divider 2.5V range Set 200V
  6606.47                               -0.032811516204390      V         -
2.944578748          2.944578748       Delta : HV Divider 2.5V range Set 200V :
200.00
  6606.48                                           400.1504      V
390                   410       HV Divider 2.5V range Set 400V
  6606.49                                0.150374999999997      V
-10                   10       Delta : HV Divider 2.5V range Set 400V : 400.00
  6606.50                       Exp= 400.1504 Act= 399.7682      V
HV Divider 2.5V range Set 400V
  6606.51                               -0.382205758920975      V         -
3.592103508          3.592103508       Delta : HV Divider 2.5V range Set 400V :
400.00
  6606.52                                           600.3948      V
586                   614       HV Divider 2.5V range Set 600V
  6606.53                                0.394774999999981      V
-14                   14       Delta : HV Divider 2.5V range Set 600V : 600.00
  6606.54                       Exp= 600.3948 Act= 600.4084      V
HV Divider 2.5V range Set 600V
  6606.55                                0.013652228722549      V         -
6.663371583          6.663371583       Delta : HV Divider 2.5V range Set 600V :
```

```
600.00
    6607.0                                          -0.6718      mV
-500                  500       Atten Offset Check: DAC = 0x80068006 2000A
    6607.1                                          -0.8633      mV
-500                  500       Atten Offset Check: DAC = 0x80068006 5000A
    6608.0                                          97.2339      A
-70                   270       2000A
    6608.1                                -2.766102600000000     A
-170                  170       Delta : 2000A : 100.00
    6608.2                                          401.1748     A
170                   630       2000A
    6608.3                                 1.174783999999990     A
-230                  230       Delta : 2000A : 400.00
    6608.4                                          698.1485     A
410                   990       2000A
    6608.5                                -1.851487000000020     A
-290                  290       Delta : 2000A : 700.00
    6608.6                                          998.1188     A
650                  1350       2000A
    6608.7                                -1.881217999999990     A
-350                  350       Delta : 2000A : 1000.00
    6608.8                                          1293.1383    A
890                  1710       2000A
    6608.9                                -6.861730000000080     A
-410                  410       Delta : 2000A : 1300.00
  6608.10                                           1600.0650    A
1130                 2070       2000A
  6608.11                                0.065040000000181      A
-470                  470       Delta : 2000A : 1600.00
  6608.12                                           1900.1084    A
1370                 2430       2000A
  6608.13                                0.108429999999771      A
-530                  530       Delta : 2000A : 1900.00
  6608.14                                           90.1648      A
-70                   270       5000A
  6608.15                                -9.835180600000000     A
-170                  170       Delta : 5000A : 100.00
  6608.16                                           398.2060     A
170                   630       5000A
  6608.17                                -1.793993000000000     A
```

```
-230                  230       Delta : 5000A : 400.00
  6608.18                                   695.1969      A
410                   990       5000A
  6608.19                                  -4.803109000000060      A
-290                  290       Delta : 5000A : 700.00
  6608.20                                   997.2085      A
650                   1350      5000A
  6608.21                                  -2.791451999999940      A
-350                  350       Delta : 5000A : 1000.00
  6608.22                                   1300.1128      A
890                   1710      5000A
  6608.23                                   0.1128200000000056      A
-410                  410       Delta : 5000A : 1300.00
  6608.24                                   1598.1199      A
1130                  2070      5000A
  6608.25                                  -1.880120000000030      A
-470                  470       Delta : 5000A : 1600.00
  6608.26                                   1893.0421      A
1370                  2430      5000A
  6608.27                                  -6.957909999999860      A
-530                  530       Delta : 5000A : 1900.00
  6608.28                                   2205.0933      A
1610                  2790      5000A
  6608.29                                   5.093289999999800      A
-590                  590       Delta : 5000A : 2200.00
  6608.30                                   2490.0504      A
1850                  3150      5000A
  6608.31                                  -9.949590000000170      A
-650                  650       Delta : 5000A : 2500.00
  6608.32                                   2787.0317      A
2090                  3510      5000A
  6608.33                                 -12.968350000000100      A
-710                  710       Delta : 5000A : 2800.00
   6609.0                                       Pulse Square
Cal Check: Range 5000A Rise Time Result = 0.149508us; Hi Limit = 0.22595us
   6609.1                                                  0 status
0       Cal Check: Range 5000A Rise Time Result = 0.149508us; Hi Limit =
0.22595us
   6609.2                                       Pulse Square
Cal Check: Range 5000A Squaring Area Result = 0.00274261; Hi Limit = 0.007
```

```
   6609.3                                                0 status
0       Cal Check: Range 5000A Squaring Area Result = 0.00274261; Hi Limit =
0.007
   6609.4                                      Pulse Square
Check for Pulse Square 5000A; ESU1200_18 OK.
   6609.5                                                0 status
0       Check for Pulse Square 5000A; ESU1200_18 OK.
   6609.6                                      Pulse Square
Cal Check: Range 2000A Rise Time Result = 0.195586us; Hi Limit = 0.527us
   6609.7                                                0 status
0       Cal Check: Range 2000A Rise Time Result = 0.195586us; Hi Limit = 0.527us
   6609.8                                      Pulse Square
Cal Check: Range 2000A Squaring Area Result = 0.00448442; Hi Limit = 0.017
   6609.9                                                0 status
0       Cal Check: Range 2000A Squaring Area Result = 0.00448442; Hi Limit =
0.017
  6609.10                                      Pulse Square
Check for Pulse Square 2000A; ESU1200_18 OK.
  6609.11                                               0 status
0       Check for Pulse Square 2000A; ESU1200_18 OK.
```

No. of Boards = 31

Lap Count = 1

Start Time = 5/28/2021 17:31:43

Finish Time = 5/28/2021 23:47:19

(Note: Under IE 8.0, please click the above popup bar and choose "Allow Blocked Content" to enable the ActiveX control so that

you can click on the lap number links to view the datalog file. If you couldn't see the popup information bar, please click the

"Internet Options" on the "Tools" menu to open the option dialog, select the "Security" tab and choose "Local intranet"

zone. After that, click the "Custom level..." and on the newly opened dialog, please select "Enable" for

"Initialize and script ActiveX controls not marked as safe for scripting" item and restart IE.

You should be able to click the lap links to view the datalog file after all these are done.)