

# UC1846-SP Neutron Displacement Damage (NDD) Characterization



## ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the UC1846-SP device. The results show that all devices were fully functional and within production test limits after having been irradiated up to  $1 \times 10^{12}$  n/cm<sup>2</sup> (1-MeV equivalent). A sample size of nine units was exposed to radiation testing per MIL-STD-883, Method 1017 for Neutron Irradiation, and an additional two devices were used as control units and were not irradiated. All devices used in the experiment were from lot date code 1627A and assembly lot 5114388. Electrical testing was performed at Texas Instruments before and after neutron irradiation using the production test program for UC1846-SP.

## Table of Contents

|                                   |   |
|-----------------------------------|---|
| 1 Overview.....                   | 1 |
| 2 Test Procedures.....            | 3 |
| 3 Facility.....                   | 4 |
| 4 Results.....                    | 5 |
| 5 Revision History.....           | 6 |
| A Appendix: NDD Test Results..... | 7 |

## List of Figures

|                                   |   |
|-----------------------------------|---|
| Figure 2-1. UC1846-SP Device..... | 3 |
|-----------------------------------|---|

## List of Tables

|   |   |
|---|---|
| Table 1-1. Overview Information.....                      | 2 |
| Table 2-1. Neutron Irradiation Conditions.....            | 3 |
| Table 4-1. UC1846-SP Specification Compliance Matrix..... | 5 |

## Trademarks

All trademarks are the property of their respective owners.

## 1 Overview

The UC1846-SP current mode PWM controller that provides all of the necessary features to implement fixed-frequency, current-mode control schemes while maintaining a minimum external parts count. The superior performance of this technique can be measured in improved line regulation, enhanced load response characteristics, and a simpler, easier to design control loop. Topological advantages include inherent pulse-by-pulse current limiting capability, automatic symmetry correction for push-pull converters. Protection circuitry includes undervoltage lockout and programmable current limit in addition to soft-start capability. A shutdown function is also available which initiates either a complete shutdown with automatic restart or latch the supply off.

General device information and testing conditions are listed in [Table 1-1](#).

**Table 1-1. Overview Information**

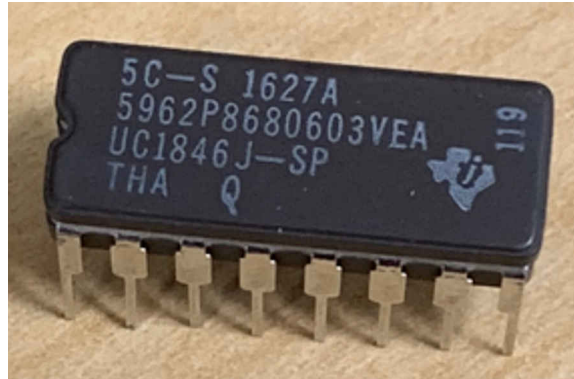
|   |  |
|---|--|
| TI Part Number  | UC1846-SP  |
| SMD Number  | 5962-8680603VEA  |
| Device Function   | Dual ended 500-kHz current mode PWM controller                                       |
| Die Name  | SMATRC1846VS   |
| Package   | 16-Pin CDIP (J)  |
| Technology  | JI-PWR1  |
| A/T Lot Number / Date Code  | 5114388 / 1627A  |
| Unbiased Quantity Tested  | 9  |
| Exposure Facility   | VPT Rad  |
| Neutron Fluence (1-MeV equivalent)  | $1.0 \times 10^{12}$ , $5.0 \times 10^{12}$ , $1.0 \times 10^{13}$ n/cm <sup>2</sup> |
| Irradiation Temperature   | 25°C   |
| <p>TI may provide technical, applications or design advice, quality characterization, and reliability data or service providing these items shall not expand or otherwise affect TI's warranties as set forth in the Texas Instruments Incorporated Standard Terms and Conditions of Sale for Semiconductor Products and no obligation or liability shall arise from Semiconductor Products and no obligation or liability shall arise from TI's provision of such items.</p> |  |

## 2 Test Procedures

The UC1846-SP was electrically pre-tested using the production automated test equipment (ATE) program. General test procedures were IAW MIL-STD-883, Method 1017 for Neutron Irradiation of UC1846-SP.

**Table 2-1. Neutron Irradiation Conditions**

| Group | Sample Qty | Neutron Fluence (n/cm <sup>2</sup> ) | Bias     |
|-------|------------|--------------------------------------|----------|
| A     | 3          | $1.0 \times 10^{12}$                 | Unbiased |
| B     | 3          | $5.0 \times 10^{12}$                 | Unbiased |
| C     | 3          | $1.0 \times 10^{13}$                 | Unbiased |



**Figure 2-1. UC1846-SP Device**

The UC1846-SP is packaged in a 16-pin CDIP (J) package as shown in [Figure 2-1](#).

### 3 Facility

VPT Rad performs all neutron displacement damage irradiations in a low-enriched, open-pool, water moderated, thermal neutron reactor. It utilizes flat-plate type fuel and has a maximum thermal energy output of up to 1 MW. The Fast Neutron Irradiator (FNI) faces one side of the reactor core. The FNI design produces a geometrical planar *beam* of fast neutrons that is approximately uniform over an area of 12 in × 20 in. Lead and thermal neutron absorbing compounds are combined to filter out both fission gammas and thermal neutrons. The ratio of fast-to-thermal neutrons is approximately 400:1, with a gamma exposure of up to 1401 rad(Si) for a 1E13 n/cm<sup>2</sup> (1-MeV(Si) equivalent) exposure. The FNI can accommodate a sample or samples with size up to 30 cm in diameter and 15-cm thick including packaging materials. The minimum neutron fluence rate is 1E6 n/cm<sup>2</sup>-s. The maximum neutron fluence rate is approximately 1.0E11 n/cm<sup>2</sup>-s (both values are 1-MeV(Si) equivalent).

The neutron fluence rate is determined using the previously-measured neutron radiation field for the FNI, performed in accordance with ASTM standards (ASTM F1190), and correlated to the measured reactor power level. The neutron dose is timed to meet the customer-specified fluence for the irradiation. Neutron dosimetry meeting ASTM standards (ASTM E265) is utilized to track and ensure irradiations meet the required minimum. The facility retains *source-suitability* with the Defense Logistics Agency (DLA) Laboratory Suitability Program for ASTM Test Method 1017. The DUTS are typically irradiation in an unbiased condition as per TM1017. If bias conditions are required, they can be maintained via dry thimbles connected to the irradiation volume.

## 4 Results

There were no functional failures at  $1E12$  n/cm<sup>2</sup>. All parametric measurements remained well within all data sheet (SLUS871D) limits for  $1E12$  n/cm<sup>2</sup>. All parametric measurements are guard-banded from the data sheet limits. The full parameter list and graphs are found in [Appendix A](#).

[UC1846-SP Specification Compliance Matrix](#) lists the UC1846-SP specification compliance matrix.

**Table 4-1. UC1846-SP Specification Compliance Matrix**

| PARAMETER                 | TEST CONDITIONS                                 | From UC1846 Spec Sheet |      |      |               | Test Number |
|---------------------------|---|------------------------|------|------|---------------|-------------|
|                           |   | MIN                    | TYP  | MAX  | UNIT          |             |
| <b>REFERENCE</b>          |   |                        |      |      |               |             |
| Output voltage            | $T_j = 25^\circ\text{C}$ , $I_o = 1$ mA         | 5.04                   | 5.1  | 5.16 | V             | 3.1,3.2,3.3 |
| Line regulation           | $V_{in} = 8$ to $40$ V                          |                        | 5    | 20   | mV            | 3.4         |
| Load regulation           | $I_L = 1$ to $10$ mA                            |                        | 3    | 15   | mV            | 3.7         |
| Total output variation    | Over line, load, and temperature <sup>(1)</sup> | 5                      |      | 5.2  | V             | 3.1,3.2,3.3 |
| <b>OSCILLATOR</b>         |   |                        |      |      |               |             |
| Sync output high level    |   | 3.9                    | 4.35 |      | V             | 6.2         |
| Sync output low level     |   |                        | 2.3  | 2.5  | V             | 6.1         |
| Sync input high level     | $C_T = 0$ V                                     | 3.9                    |      |      | V             | 6.2         |
| Sync input low level      | $C_T = 0$ V                                     |                        |      | 2.5  | V             | 6.1         |
| Sync input current        | Sync = $3.9$ V, $C_T = 0$ V                     |                        | 1.3  | 1.5  | mA            | 6.3         |
| <b>ERROR AMPLIFIER</b>    |   |                        |      |      |               |             |
| Input offset voltage      |   |                        | 0.5  | 5    | mV            | 7.5         |
| Input bias current        |   | -1                     | -0.6 |      | $\mu\text{A}$ | 7.6,7.7     |
| Input offset current      |   |                        | 40   | 250  | nA            | 7.8         |
| Open-loop voltage gain    | $\Delta V_o = 1.2$ to $3$ V, $V_{CM} = 2$ V     | 80                     | 105  |      | dB            | 7.9         |
| CMRR                      | $V_{CM} = 0$ to $38$ V, $V_{IN} = 40$ V         | 75                     | 100  |      | dB            | 7.10        |
| PSRR                      | $V_{IN} = 8$ to $40$ V                          | 80                     | 105  |      | dB            | 7.11        |
| Output sink current       | $V_{ID} = -15$ mV to $-5$ V, Comp = $1.2$ V     | 2                      | 6    |      | mA            | 7.3         |
| Output source current     | $V_{ID} = 15$ mV to $5$ V, Comp = $2.5$ V       |                        | -0.5 | -0.4 | mA            | 7.4         |
| High-level output voltage | $R_L = (\text{Comp}) 15$ k $\Omega$             | 4.3                    | 4.6  |      | V             | 7.1         |
| Low-level output voltage  | $R_L = (\text{Comp}) 15$ k $\Omega$             |                        | 0.7  | 1    | V             | 7.2         |

**Table 4-1. UC1846-SP Specification Compliance Matrix (continued)**

| PARAMETER   | TEST CONDITIONS                              | From UC1846 Spec Sheet |      |     |      | Test Number |
|---|--|------------------------|------|-----|------|-------------|
|   |  | MIN                    | TYP  | MAX | UNIT |             |
| <b>CURRENT SENSE AMPLIFIER</b>                    |  |                        |      |     |      |             |
| Amplifier gain                                    | VC/S- = 0 V, C/L SS open(2)(3)               | 2.5                    | 2.75 | 3.1 | V/V  | 8.4         |
| Maximum differential input signal (VC/S+ - VC/S-) | C/L SS open(2), R <sub>L</sub> (Comp)= 15 kΩ | 1.1                    | 1.2  |     | V    | 8.5         |
| Input offset voltage                              | VC/L SS = 0.5 V, Comp open(2)                |                        | 5    | 25  | mV   | 8.1         |
| CMRR  | V <sub>CM</sub> = 1 to 12 V                  | 60                     | 83   |     | dB   | 8.2         |
| PSRR  | V <sub>IN</sub> = 8 to 40 V                  | 60                     | 84   |     | dB   | 8.3         |
| Input bias current                                | VC/L SS = 0.5 V, Comp open(2)                | -10                    | -2.5 |     | μA   | 8.6         |
| Input offset current                              | VC/L SS = 0.5 V, Comp open(2)                |                        | 0.08 | 1   | μA   | 8.7         |

## 5 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

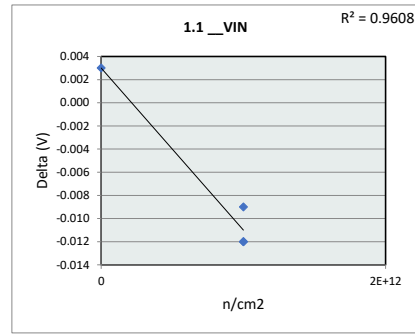
| DATE       | REVISION | NOTES           |
|------------|----------|-----------------|
| April 2022 | *        | Initial release |

## A Appendix: NDD Test Results

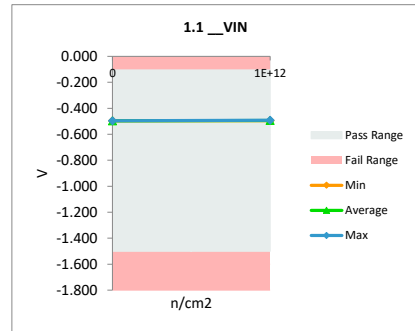
This appendix contains the detailed NDD test results.

NDD Report  
UC1846-SP

| 1.1_VIN     |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.483    | -0.492   | -0.009 |
| 1E+12       | 29       | -0.483    | -0.495   | -0.012 |
| 1E+12       | 30       | -0.483    | -0.495   | -0.012 |
| 0           | 119      | -0.499    | -0.496   | 0.003  |
|             | Max      | -0.483    | -0.492   | 0.003  |
|             | Average  | -0.487    | -0.495   | -0.007 |
|             | Min      | -0.499    | -0.496   | -0.012 |
|             | Std Dev  | 0.008     | 0.002    | 0.007  |



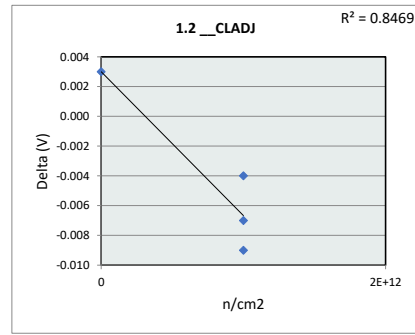
| 1.1_VIN     |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.496 | -0.495 |
| Average     | -0.496 | -0.494 |
| Max         | -0.496 | -0.492 |
| UL          | -0.100 | -0.100 |



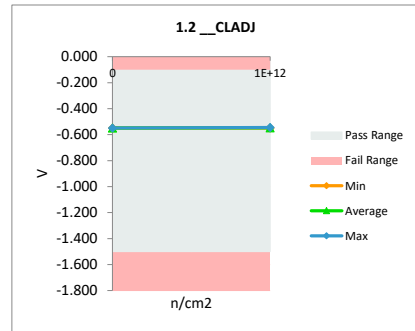


NDD Report  
UC1846-SP

| 1.2 _CLADJ  |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.541    | -0.545   | -0.004 |
| 1E+12       | 29       | -0.541    | -0.548   | -0.007 |
| 1E+12       | 30       | -0.540    | -0.549   | -0.009 |
| 0           | 119      | -0.552    | -0.549   | 0.003  |
|             | Max      | -0.540    | -0.545   | 0.003  |
|             | Average  | -0.544    | -0.548   | -0.004 |
|             | Min      | -0.552    | -0.549   | -0.009 |
|             | Std Dev  | 0.006     | 0.002    | 0.005  |

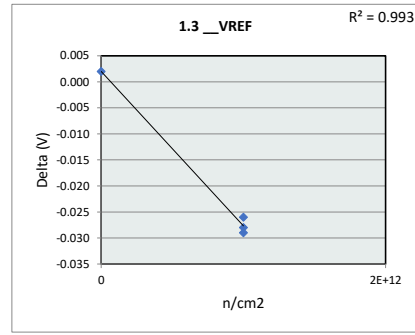


| 1.2 _CLADJ  |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.549 | -0.549 |
| Average     | -0.549 | -0.547 |
| Max         | -0.549 | -0.545 |
| UL          | -0.100 | -0.100 |

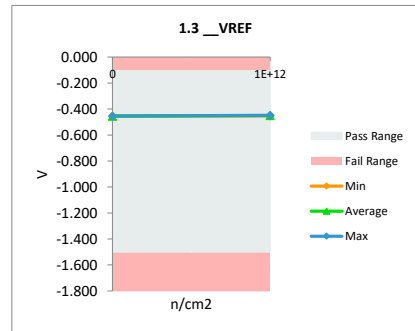


NDD Report  
UC1846-SP

| 1.3 __VREF  |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.422    | -0.448   | -0.026 |
| 1E+12       | 29       | -0.423    | -0.451   | -0.028 |
| 1E+12       | 30       | -0.423    | -0.452   | -0.029 |
| 0           | 119      | -0.456    | -0.454   | 0.002  |
|             | Max      | -0.422    | -0.448   | 0.002  |
|             | Average  | -0.431    | -0.451   | -0.020 |
|             | Min      | -0.456    | -0.454   | -0.029 |
|             | Std Dev  | 0.017     | 0.002    | 0.015  |

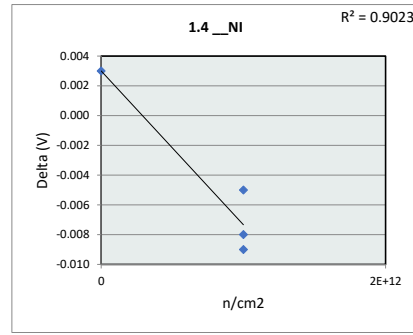


| 1.3 __VREF  |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.454 | -0.452 |
| Average     | -0.454 | -0.450 |
| Max         | -0.454 | -0.448 |
| UL          | -0.100 | -0.100 |

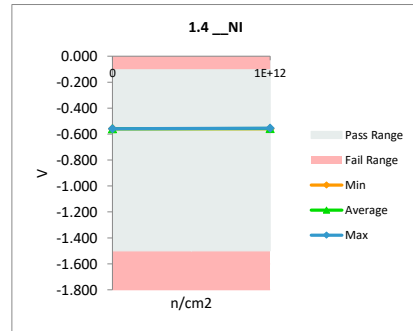


NDD Report  
UC1846-SP

| 1.4_NI      |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.550    | -0.555   | -0.005 |
| 1E+12       | 29       | -0.550    | -0.558   | -0.008 |
| 1E+12       | 30       | -0.550    | -0.559   | -0.009 |
| 0           | 119      | -0.562    | -0.559   | 0.003  |
|             | Max      | -0.550    | -0.555   | 0.003  |
|             | Average  | -0.553    | -0.558   | -0.005 |
|             | Min      | -0.562    | -0.559   | -0.009 |
|             | Std Dev  | 0.006     | 0.002    | 0.005  |

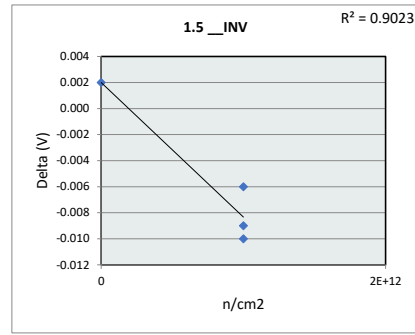


| 1.4_NI      |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.559 | -0.559 |
| Average     | -0.559 | -0.557 |
| Max         | -0.559 | -0.555 |
| UL          | -0.100 | -0.100 |

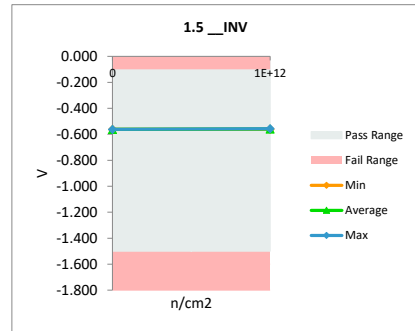


NDD Report  
UC1846-SP

| 1.5_INV     |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.551    | -0.557   | -0.006 |
| 1E+12       | 29       | -0.551    | -0.560   | -0.009 |
| 1E+12       | 30       | -0.551    | -0.561   | -0.010 |
| 0           | 119      | -0.564    | -0.562   | 0.002  |
|             | Max      | -0.551    | -0.557   | 0.002  |
|             | Average  | -0.554    | -0.560   | -0.006 |
|             | Min      | -0.564    | -0.562   | -0.010 |
|             | Std Dev  | 0.007     | 0.002    | 0.005  |

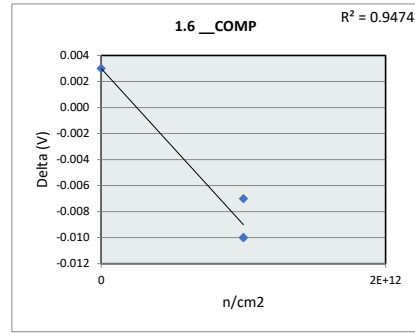


| 1.5_INV     |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.562 | -0.561 |
| Average     | -0.562 | -0.559 |
| Max         | -0.562 | -0.557 |
| UL          | -0.100 | -0.100 |

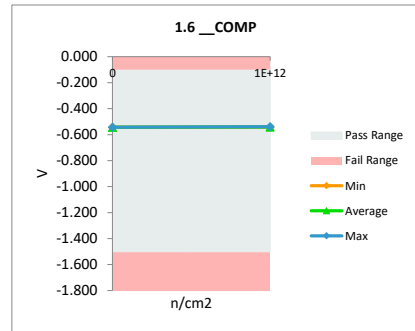


NDD Report  
UC1846-SP

| 1.6_COMP    |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.532    | -0.539   | -0.007 |
| 1E+12       | 29       | -0.532    | -0.542   | -0.010 |
| 1E+12       | 30       | -0.532    | -0.542   | -0.010 |
| 0           | 119      | -0.546    | -0.543   | 0.003  |
|             | Max      | -0.532    | -0.539   | 0.003  |
|             | Average  | -0.536    | -0.541   | -0.006 |
|             | Min      | -0.546    | -0.543   | -0.010 |
|             | Std Dev  | 0.007     | 0.002    | 0.006  |

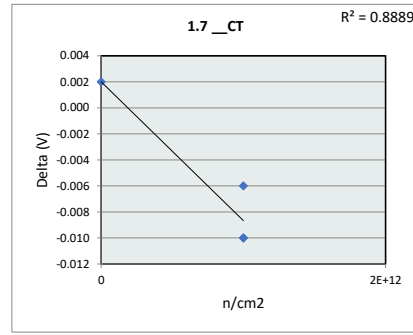


| 1.6_COMP    |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.543 | -0.542 |
| Average     | -0.543 | -0.541 |
| Max         | -0.543 | -0.539 |
| UL          | -0.100 | -0.100 |

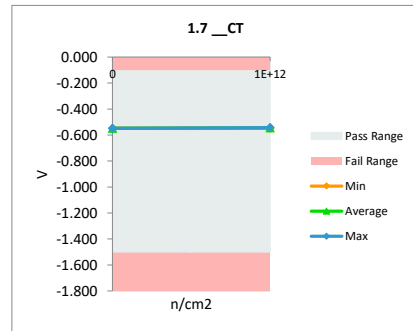


NDD Report  
UC1846-SP

| 1.7_CT      |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.537    | -0.543   | -0.006 |
| 1E+12       | 29       | -0.537    | -0.547   | -0.010 |
| 1E+12       | 30       | -0.537    | -0.547   | -0.010 |
| 0           | 119      | -0.550    | -0.548   | 0.002  |
|             | Max      | -0.537    | -0.543   | 0.002  |
|             | Average  | -0.540    | -0.546   | -0.006 |
|             | Min      | -0.550    | -0.548   | -0.010 |
|             | Std Dev  | 0.007     | 0.002    | 0.006  |



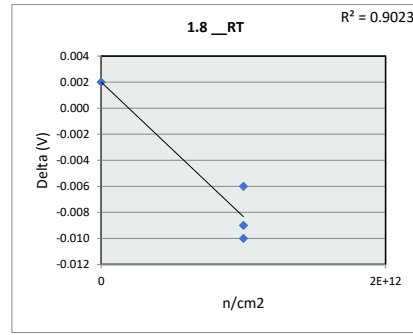
| 1.7_CT      |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.548 | -0.547 |
| Average     | -0.548 | -0.546 |
| Max         | -0.548 | -0.543 |
| UL          | -0.100 | -0.100 |



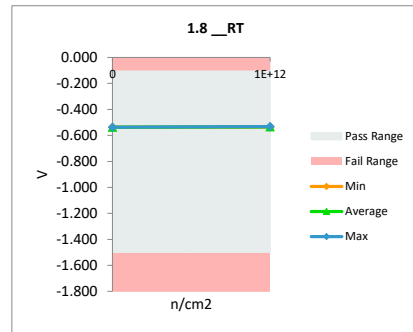
NDD Report  
UC1846-SP

| 1.8_RT      |      |
|-------------|------|
| Test Site   |      |
| Tester      |      |
| Test Number |      |
| Unit        | V    |
| Max Limit   | -0.1 |
| Min Limit   | -1.5 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | -0.526    | -0.532   | -0.006 |
| 1E+12 | 29       | -0.526    | -0.535   | -0.009 |
| 1E+12 | 30       | -0.526    | -0.536   | -0.010 |
| 0     | 119      | -0.539    | -0.537   | 0.002  |
|       | Max      | -0.526    | -0.532   | 0.002  |
|       | Average  | -0.529    | -0.535   | -0.006 |
|       | Min      | -0.539    | -0.537   | -0.010 |
|       | Std Dev  | 0.006     | 0.002    | 0.005  |

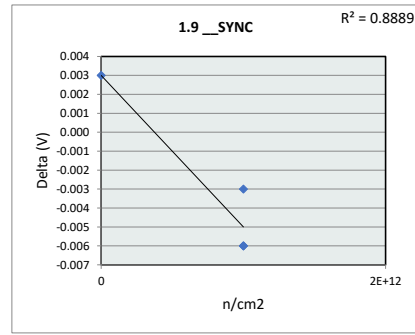


| 1.8_RT      |        |
|-------------|--------|
| Test Site   |        |
| Tester      |        |
| Test Number |        |
| Max Limit   | -0.1   |
| Min Limit   | -1.5   |
| n/cm2       | 0      |
| LL          | -1.500 |
| Min         | -0.537 |
| Average     | -0.537 |
| Max         | -0.537 |
| UL          | -0.100 |

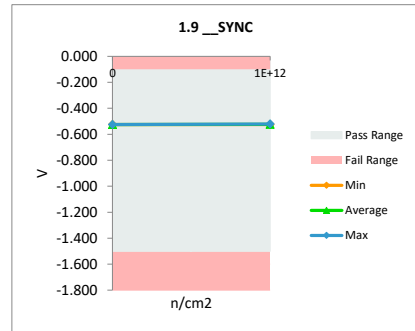


NDD Report  
UC1846-SP

| 1.9_SYNC    |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.518    | -0.521   | -0.003 |
| 1E+12       | 29       | -0.519    | -0.525   | -0.006 |
| 1E+12       | 30       | -0.519    | -0.525   | -0.006 |
| 0           | 119      | -0.528    | -0.525   | 0.003  |
|             | Max      | -0.518    | -0.521   | 0.003  |
|             | Average  | -0.521    | -0.524   | -0.003 |
|             | Min      | -0.528    | -0.525   | -0.006 |
|             | Std Dev  | 0.005     | 0.002    | 0.004  |



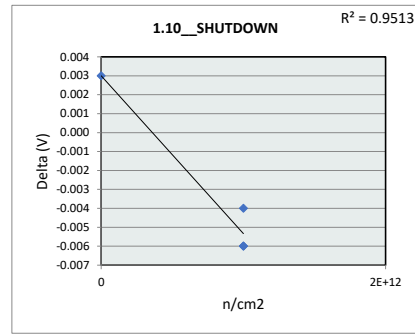
| 1.9_SYNC    |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.525 | -0.525 |
| Average     | -0.525 | -0.524 |
| Max         | -0.525 | -0.521 |
| UL          | -0.100 | -0.100 |



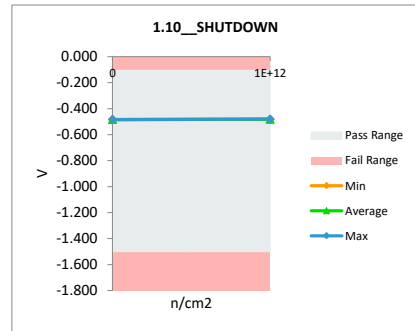


NDD Report  
UC1846-SP

| 1.10_SHUTDOWN |          |           |          |        |
|---------------|----------|-----------|----------|--------|
| Test Site     |          |           |          |        |
| Tester        |          |           |          |        |
| Test Number   |          |           |          |        |
| Unit          | V        | V         |          |        |
| Max Limit     | -0.1     | -0.1      |          |        |
| Min Limit     | -1.5     | -1.5      |          |        |
| n/cm2         | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12         | 28       | -0.476    | -0.480   | -0.004 |
| 1E+12         | 29       | -0.476    | -0.482   | -0.006 |
| 1E+12         | 30       | -0.476    | -0.482   | -0.006 |
| 0             | 119      | -0.487    | -0.484   | 0.003  |
|               | Max      | -0.476    | -0.480   | 0.003  |
|               | Average  | -0.479    | -0.482   | -0.003 |
|               | Min      | -0.487    | -0.484   | -0.006 |
|               | Std Dev  | 0.005     | 0.002    | 0.004  |

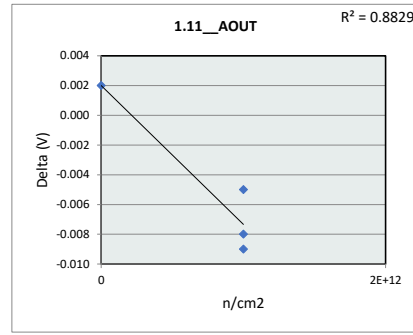


| 1.10_SHUTDOWN |        |        |
|---------------|--------|--------|
| Test Site     |        |        |
| Tester        |        |        |
| Test Number   |        |        |
| Max Limit     | -0.1   | V      |
| Min Limit     | -1.5   | V      |
| n/cm2         | 0      | 1E+12  |
| LL            | -1.500 | -1.500 |
| Min           | -0.484 | -0.482 |
| Average       | -0.484 | -0.481 |
| Max           | -0.484 | -0.480 |
| UL            | -0.100 | -0.100 |

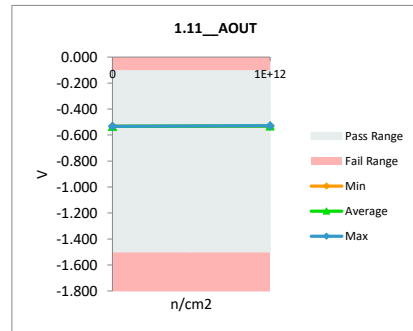


NDD Report  
UC1846-SP

| 1.11_AOUT   |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.523    | -0.528   | -0.005 |
| 1E+12       | 29       | -0.523    | -0.531   | -0.008 |
| 1E+12       | 30       | -0.523    | -0.532   | -0.009 |
| 0           | 119      | -0.535    | -0.533   | 0.002  |
|             | Max      | -0.523    | -0.528   | 0.002  |
|             | Average  | -0.526    | -0.531   | -0.005 |
|             | Min      | -0.535    | -0.533   | -0.009 |
|             | Std Dev  | 0.006     | 0.002    | 0.005  |

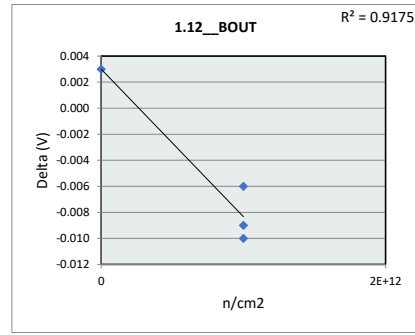


| 1.11_AOUT   |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.533 | -0.532 |
| Average     | -0.533 | -0.530 |
| Max         | -0.533 | -0.528 |
| UL          | -0.100 | -0.100 |

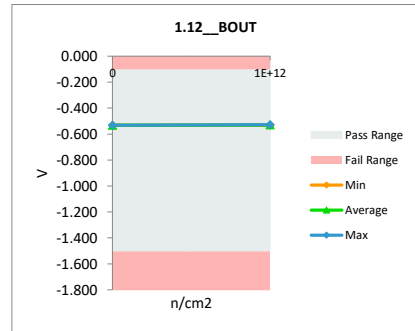


NDD Report  
UC1846-SP

| 1.12_BOUT   |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.522    | -0.528   | -0.006 |
| 1E+12       | 29       | -0.522    | -0.531   | -0.009 |
| 1E+12       | 30       | -0.522    | -0.532   | -0.010 |
| 0           | 119      | -0.535    | -0.532   | 0.003  |
|             | Max      | -0.522    | -0.528   | 0.003  |
|             | Average  | -0.525    | -0.531   | -0.005 |
|             | Min      | -0.535    | -0.532   | -0.010 |
|             | Std Dev  | 0.007     | 0.002    | 0.006  |



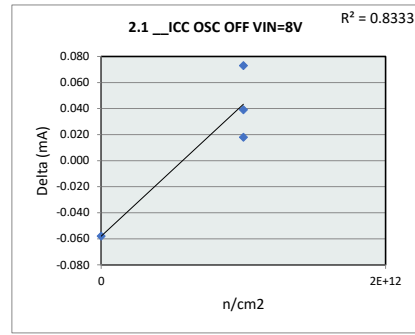
| 1.12_BOUT   |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.532 | -0.532 |
| Average     | -0.532 | -0.530 |
| Max         | -0.532 | -0.528 |
| UL          | -0.100 | -0.100 |



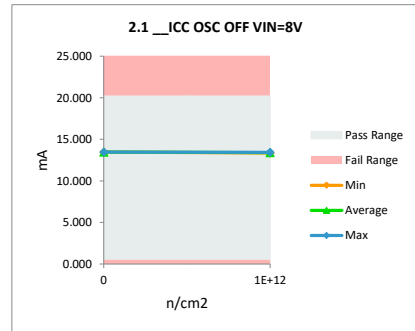
NDD Report  
UC1846-SP

| 2.1 __ICC OSC OFF VIN=8V |      |      |
|--------------------------|------|------|
| Test Site                |      |      |
| Tester                   |      |      |
| Test Number              |      |      |
| Unit                     | mA   | mA   |
| Max Limit                | 20.6 | 20.2 |
| Min Limit                | 0    | 0.5  |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 13.414    | 13.432   | 0.018  |
| 1E+12 | 29       | 13.334    | 13.407   | 0.073  |
| 1E+12 | 30       | 13.314    | 13.353   | 0.039  |
| 0     | 119      | 13.526    | 13.468   | -0.058 |
|       | Max      | 13.526    | 13.468   | 0.073  |
|       | Average  | 13.397    | 13.415   | 0.018  |
|       | Min      | 13.314    | 13.353   | -0.058 |
|       | Std Dev  | 0.096     | 0.048    | 0.056  |

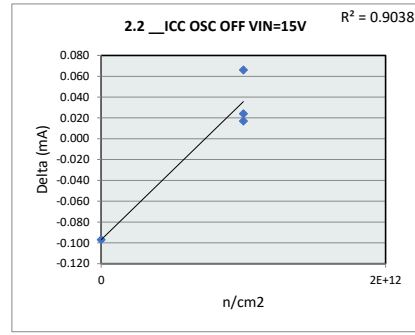


| 2.1 __ICC OSC OFF VIN=8V |        |        |
|--------------------------|--------|--------|
| Test Site                |        |        |
| Tester                   |        |        |
| Test Number              |        |        |
| Max Limit                | 20.2   | mA     |
| Min Limit                | 0.5    | mA     |
| n/cm2                    | 0      | 1E+12  |
| LL                       | 0.500  | 0.500  |
| Min                      | 13.468 | 13.353 |
| Average                  | 13.468 | 13.397 |
| Max                      | 13.468 | 13.432 |
| UL                       | 20.200 | 20.200 |

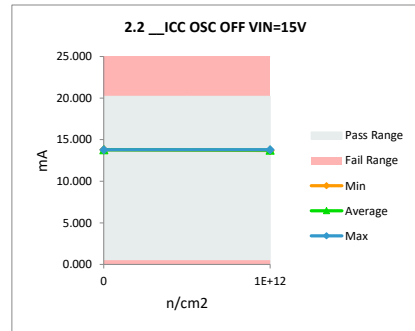


NDD Report  
UC1846-SP

| 2.2 _ICC OSC OFF VIN=15V |          |           |          |        |
|--------------------------|----------|-----------|----------|--------|
| Test Site                |          |           |          |        |
| Tester                   |          |           |          |        |
| Test Number              |          |           |          |        |
| Unit                     |          | mA        | mA       |        |
| Max Limit                |          | 20.6      | 20.2     |        |
| Min Limit                |          | 0         | 0.5      |        |
| n/cm2                    | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                    | 28       | 13.777    | 13.794   | 0.017  |
| 1E+12                    | 29       | 13.700    | 13.766   | 0.066  |
| 1E+12                    | 30       | 13.673    | 13.697   | 0.024  |
| 0                        | 119      | 13.887    | 13.790   | -0.097 |
|                          | Max      | 13.887    | 13.794   | 0.066  |
|                          | Average  | 13.759    | 13.762   | 0.002  |
|                          | Min      | 13.673    | 13.697   | -0.097 |
|                          | Std Dev  | 0.096     | 0.045    | 0.070  |



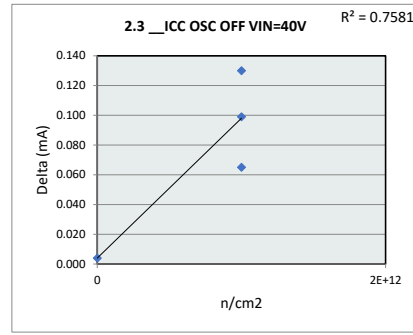
| 2.2 _ICC OSC OFF VIN=15V |        |        |
|--------------------------|--------|--------|
| Test Site                |        |        |
| Tester                   |        |        |
| Test Number              |        |        |
| Max Limit                | 20.2   | mA     |
| Min Limit                | 0.5    | mA     |
| n/cm2                    | 0      | 1E+12  |
| LL                       | 0.500  | 0.500  |
| Min                      | 13.790 | 13.697 |
| Average                  | 13.790 | 13.752 |
| Max                      | 13.790 | 13.794 |
| UL                       | 20.200 | 20.200 |



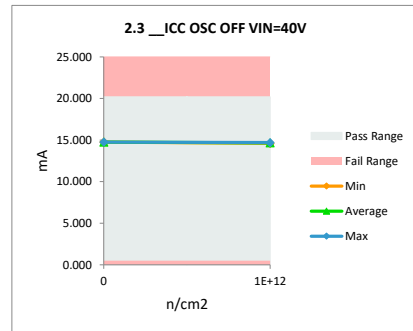
### NDD Report UC1846-SP

| 2.3 _ICC OSC OFF VIN=40V |      |
|--------------------------|------|
| Test Site                |      |
| Tester                   |      |
| Test Number              |      |
| Unit                     | mA   |
| Max Limit                | 20.2 |
| Min Limit                | 0    |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta |
|-------|----------|-----------|----------|-------|
| 1E+12 | 28       | 14.637    | 14.702   | 0.065 |
| 1E+12 | 29       | 14.550    | 14.680   | 0.130 |
| 1E+12 | 30       | 14.516    | 14.615   | 0.099 |
| 0     | 119      | 14.751    | 14.755   | 0.004 |
|       | Max      | 14.751    | 14.755   | 0.130 |
|       | Average  | 14.614    | 14.688   | 0.074 |
|       | Min      | 14.516    | 14.615   | 0.004 |
|       | Std Dev  | 0.105     | 0.058    | 0.054 |



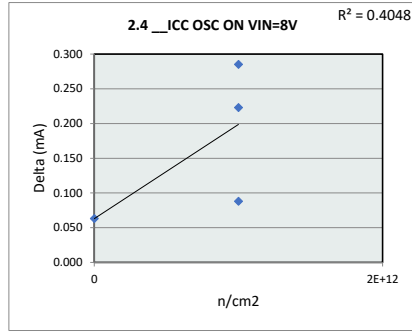
| 2.3 _ICC OSC OFF VIN=40V |         |
|--------------------------|---------|
| Test Site                |         |
| Tester                   |         |
| Test Number              |         |
| Max Limit                | 20.2 mA |
| Min Limit                | 0.5 mA  |
| n/cm2                    | 0       |
| LL                       | 0.500   |
| Min                      | 14.755  |
| Average                  | 14.755  |
| Max                      | 14.755  |
| UL                       | 20.200  |



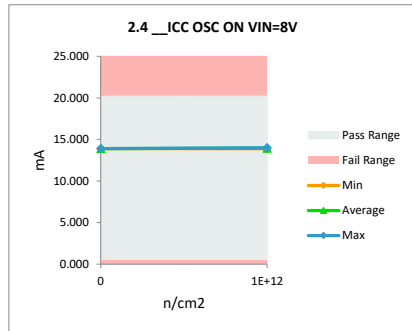
NDD Report  
UC1846-SP

| 2.4 __ICC OSC ON VIN=8V |      |      |
|-------------------------|------|------|
| Test Site               |      |      |
| Tester                  |      |      |
| Test Number             |      |      |
| Unit                    | mA   | mA   |
| Max Limit               | 20.6 | 20.2 |
| Min Limit               | 0    | 0.5  |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta |
|-------|----------|-----------|----------|-------|
| 1E+12 | 28       | 13.910    | 13.998   | 0.088 |
| 1E+12 | 29       | 13.683    | 13.968   | 0.285 |
| 1E+12 | 30       | 13.659    | 13.882   | 0.223 |
| 0     | 119      | 13.832    | 13.895   | 0.063 |
|       | Max      | 13.910    | 13.998   | 0.285 |
|       | Average  | 13.771    | 13.936   | 0.165 |
|       | Min      | 13.659    | 13.882   | 0.063 |
|       | Std Dev  | 0.120     | 0.056    | 0.107 |



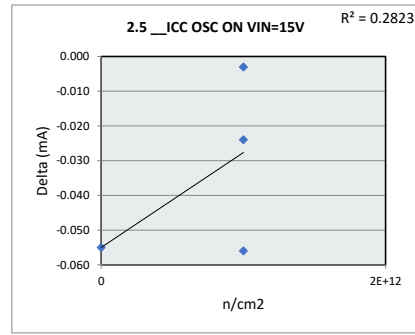
| 2.4 __ICC OSC ON VIN=8V |        |        |
|-------------------------|--------|--------|
| Test Site               |        |        |
| Tester                  |        |        |
| Test Number             |        |        |
| Max Limit               | 20.2   | mA     |
| Min Limit               | 0.5    | mA     |
| n/cm2                   | 0      | 1E+12  |
| LL                      | 0.500  | 0.500  |
| Min                     | 13.895 | 13.882 |
| Average                 | 13.895 | 13.949 |
| Max                     | 13.895 | 13.998 |
| UL                      | 20.200 | 20.200 |



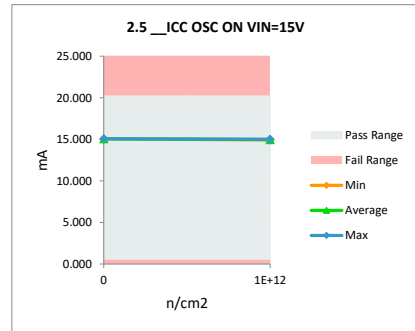
NDD Report  
UC1846-SP

| 2.5 __ICC OSC ON VIN=15V |      |
|--------------------------|------|
| Test Site                |      |
| Tester                   |      |
| Test Number              |      |
| Unit                     | mA   |
| Max Limit                | 20.2 |
| Min Limit                | 0    |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 15.065    | 15.009   | -0.056 |
| 1E+12 | 29       | 14.990    | 14.987   | -0.003 |
| 1E+12 | 30       | 14.944    | 14.920   | -0.024 |
| 0     | 119      | 15.115    | 15.060   | -0.055 |
|       | Max      | 15.115    | 15.060   | -0.003 |
|       | Average  | 15.028    | 14.994   | -0.034 |
|       | Min      | 14.944    | 14.920   | -0.056 |
|       | Std Dev  | 0.076     | 0.058    | 0.026  |



| 2.5 __ICC OSC ON VIN=15V |         |
|--------------------------|---------|
| Test Site                |         |
| Tester                   |         |
| Test Number              |         |
| Max Limit                | 20.2 mA |
| Min Limit                | 0.5 mA  |
| n/cm2                    | 0       |
| LL                       | 0.500   |
| Min                      | 15.060  |
| Average                  | 15.060  |
| Max                      | 15.060  |
| UL                       | 20.200  |

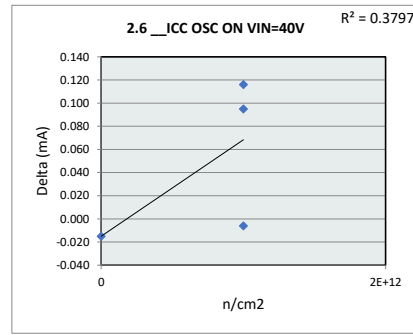




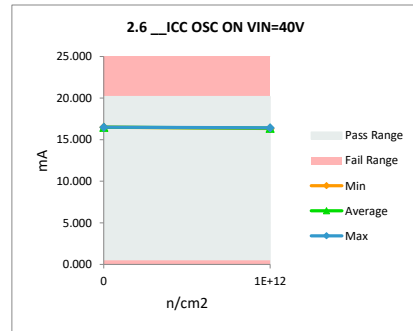
NDD Report  
UC1846-SP

| 2.6 __ICC OSC ON VIN=40V |      |      |
|--------------------------|------|------|
| Test Site                |      |      |
| Tester                   |      |      |
| Test Number              |      |      |
| Unit                     | mA   | mA   |
| Max Limit                | 20.6 | 20.2 |
| Min Limit                | 0    | 0.5  |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 16.436    | 16.430   | -0.006 |
| 1E+12 | 29       | 16.310    | 16.405   | 0.095  |
| 1E+12 | 30       | 16.226    | 16.342   | 0.116  |
| 0     | 119      | 16.513    | 16.498   | -0.015 |
|       | Max      | 16.513    | 16.498   | 0.116  |
|       | Average  | 16.371    | 16.419   | 0.047  |
|       | Min      | 16.226    | 16.342   | -0.015 |
|       | Std Dev  | 0.128     | 0.065    | 0.068  |

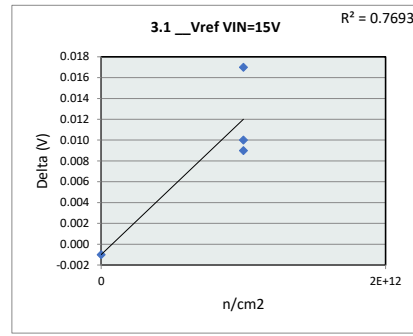


| 2.6 __ICC OSC ON VIN=40V |        |        |
|--------------------------|--------|--------|
| Test Site                |        |        |
| Tester                   |        |        |
| Test Number              |        |        |
| Max Limit                | 20.2   | mA     |
| Min Limit                | 0.5    | mA     |
| n/cm2                    | 0      | 1E+12  |
| LL                       | 0.500  | 0.500  |
| Min                      | 16.498 | 16.342 |
| Average                  | 16.498 | 16.392 |
| Max                      | 16.498 | 16.430 |
| UL                       | 20.200 | 20.200 |

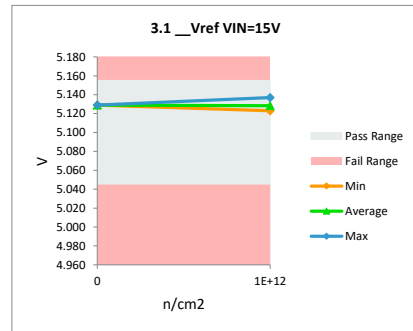


NDD Report  
UC1846-SP

| 3.1 __Vref VIN=15V |          |           |          |        |
|--------------------|----------|-----------|----------|--------|
| Test Site          |          |           |          |        |
| Tester             |          |           |          |        |
| Test Number        |          |           |          |        |
| Unit               | V        | V         |          |        |
| Max Limit          | 5.155    | 5.155     |          |        |
| Min Limit          | 5.045    | 5.045     |          |        |
| n/cm2              | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12              | 28       | 5.113     | 5.123    | 0.010  |
| 1E+12              | 29       | 5.120     | 5.137    | 0.017  |
| 1E+12              | 30       | 5.116     | 5.125    | 0.009  |
| 0                  | 119      | 5.130     | 5.129    | -0.001 |
|                    | Max      | 5.130     | 5.137    | 0.017  |
|                    | Average  | 5.120     | 5.129    | 0.009  |
|                    | Min      | 5.113     | 5.123    | -0.001 |
|                    | Std Dev  | 0.007     | 0.006    | 0.007  |

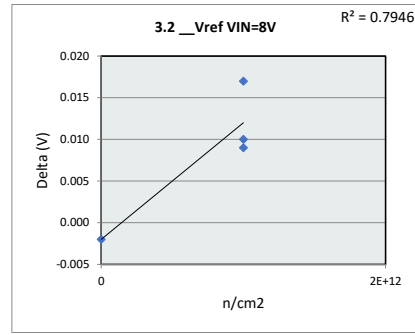


| 3.1 __Vref VIN=15V |       |       |
|--------------------|-------|-------|
| Test Site          |       |       |
| Tester             |       |       |
| Test Number        |       |       |
| Max Limit          | 5.155 | V     |
| Min Limit          | 5.045 | V     |
| n/cm2              | 0     | 1E+12 |
| LL                 | 5.045 | 5.045 |
| Min                | 5.129 | 5.123 |
| Average            | 5.129 | 5.128 |
| Max                | 5.129 | 5.137 |
| UL                 | 5.155 | 5.155 |

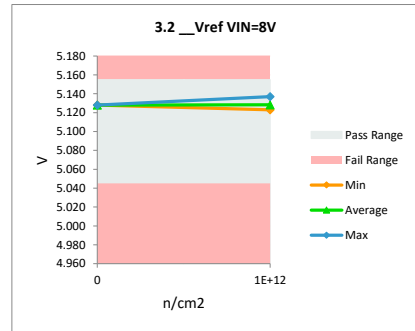


NDD Report  
UC1846-SP

| 3.2 __Vref VIN=8V |          |           |          |        |
|-------------------|----------|-----------|----------|--------|
| Test Site         |          |           |          |        |
| Tester            |          |           |          |        |
| Test Number       |          |           |          |        |
| Unit              | V        | V         |          |        |
| Max Limit         | 5.155    | 5.155     |          |        |
| Min Limit         | 5.045    | 5.045     |          |        |
| n/cm2             | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12             | 28       | 5.113     | 5.123    | 0.010  |
| 1E+12             | 29       | 5.120     | 5.137    | 0.017  |
| 1E+12             | 30       | 5.116     | 5.125    | 0.009  |
| 0                 | 119      | 5.130     | 5.128    | -0.002 |
|                   | Max      | 5.130     | 5.137    | 0.017  |
|                   | Average  | 5.120     | 5.128    | 0.008  |
|                   | Min      | 5.113     | 5.123    | -0.002 |
|                   | Std Dev  | 0.007     | 0.006    | 0.008  |

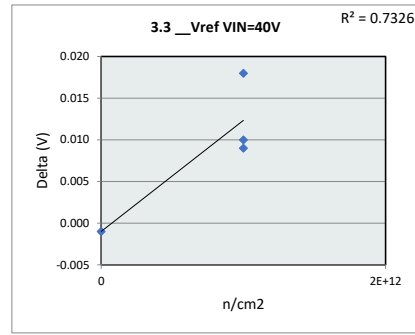


| 3.2 __Vref VIN=8V |       |       |
|-------------------|-------|-------|
| Test Site         |       |       |
| Tester            |       |       |
| Test Number       |       |       |
| Max Limit         | 5.155 | V     |
| Min Limit         | 5.045 | V     |
| n/cm2             | 0     | 1E+12 |
| LL                | 5.045 | 5.045 |
| Min               | 5.128 | 5.123 |
| Average           | 5.128 | 5.128 |
| Max               | 5.128 | 5.137 |
| UL                | 5.155 | 5.155 |

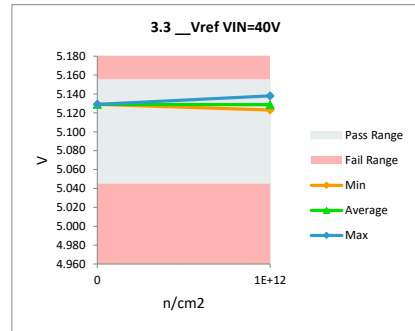


NDD Report  
UC1846-SP

| 3.3 __Vref VIN=40V |          |           |          |        |
|--------------------|----------|-----------|----------|--------|
| Test Site          |          |           |          |        |
| Tester             |          |           |          |        |
| Test Number        |          |           |          |        |
| Unit               | V        | V         |          |        |
| Max Limit          | 5.155    | 5.155     |          |        |
| Min Limit          | 5.045    | 5.045     |          |        |
| n/cm2              | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12              | 28       | 5.113     | 5.123    | 0.010  |
| 1E+12              | 29       | 5.120     | 5.138    | 0.018  |
| 1E+12              | 30       | 5.116     | 5.125    | 0.009  |
| 0                  | 119      | 5.130     | 5.129    | -0.001 |
|                    | Max      | 5.130     | 5.138    | 0.018  |
|                    | Average  | 5.120     | 5.129    | 0.009  |
|                    | Min      | 5.113     | 5.123    | -0.001 |
|                    | Std Dev  | 0.007     | 0.007    | 0.008  |

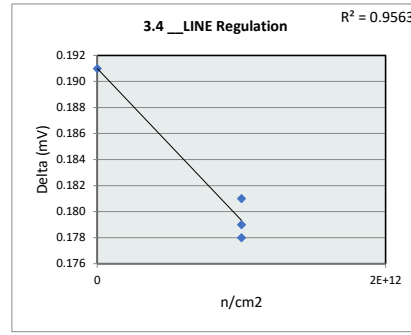


| 3.3 __Vref VIN=40V |       |       |
|--------------------|-------|-------|
| Test Site          |       |       |
| Tester             |       |       |
| Test Number        |       |       |
| Max Limit          | 5.155 | V     |
| Min Limit          | 5.045 | V     |
| n/cm2              | 0     | 1E+12 |
| LL                 | 5.045 | 5.045 |
| Min                | 5.129 | 5.123 |
| Average            | 5.129 | 5.129 |
| Max                | 5.129 | 5.138 |
| UL                 | 5.155 | 5.155 |

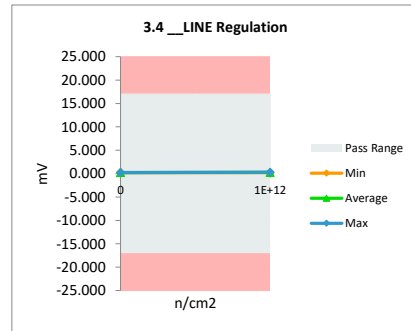


NDD Report  
UC1846-SP

| 3.4 _LINE Regulation |          |           |          |       |
|----------------------|----------|-----------|----------|-------|
| Test Site            |          |           |          |       |
| Tester               |          |           |          |       |
| Test Number          |          |           |          |       |
| Unit                 |          | mV        | mV       |       |
| Max Limit            |          | 19        | 17       |       |
| Min Limit            |          | -19       | -17      |       |
| n/cm2                | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12                | 28       | 0.062     | 0.241    | 0.179 |
| 1E+12                | 29       | 0.122     | 0.303    | 0.181 |
| 1E+12                | 30       | 0.059     | 0.237    | 0.178 |
| 0                    | 119      | 0.034     | 0.225    | 0.191 |
|                      | Max      | 0.122     | 0.303    | 0.191 |
|                      | Average  | 0.069     | 0.251    | 0.182 |
|                      | Min      | 0.034     | 0.225    | 0.178 |
|                      | Std Dev  | 0.037     | 0.035    | 0.006 |

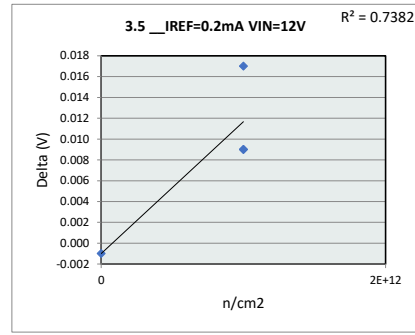


| 3.4 _LINE Regulation |         |         |
|----------------------|---------|---------|
| Test Site            |         |         |
| Tester               |         |         |
| Test Number          |         |         |
| Max Limit            | 17      | mV      |
| Min Limit            | -17     | mV      |
| n/cm2                | 0       | 1E+12   |
| LL                   | -17.000 | -17.000 |
| Min                  | 0.225   | 0.237   |
| Average              | 0.225   | 0.260   |
| Max                  | 0.225   | 0.303   |
| UL                   | 17.000  | 17.000  |

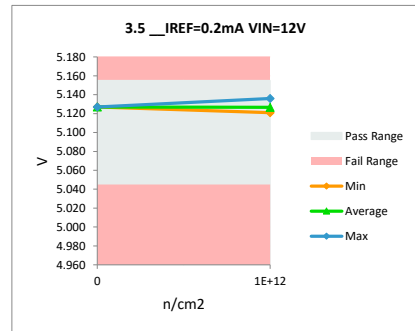


NDD Report  
UC1846-SP

| 3.5 IREF=0.2mA VIN=12V |          |           |          |        |
|------------------------|----------|-----------|----------|--------|
| Test Site              |          |           |          |        |
| Tester                 |          |           |          |        |
| Test Number            |          |           |          |        |
| Unit                   | V        | V         |          |        |
| Max Limit              | 5.155    | 5.155     |          |        |
| Min Limit              | 5.045    | 5.045     |          |        |
| n/cm2                  | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                  | 28       | 5.112     | 5.121    | 0.009  |
| 1E+12                  | 29       | 5.119     | 5.136    | 0.017  |
| 1E+12                  | 30       | 5.114     | 5.123    | 0.009  |
| 0                      | 119      | 5.128     | 5.127    | -0.001 |
|                        | Max      | 5.128     | 5.136    | 0.017  |
|                        | Average  | 5.118     | 5.127    | 0.009  |
|                        | Min      | 5.112     | 5.121    | -0.001 |
|                        | Std Dev  | 0.007     | 0.007    | 0.007  |

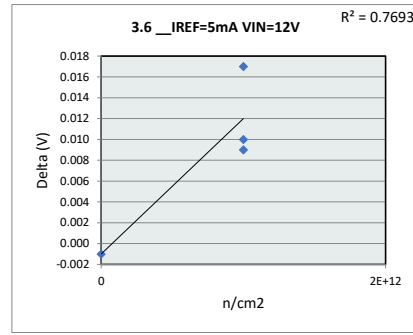


| 3.5 IREF=0.2mA VIN=12V |       |       |
|------------------------|-------|-------|
| Test Site              |       |       |
| Tester                 |       |       |
| Test Number            |       |       |
| Max Limit              | 5.155 | V     |
| Min Limit              | 5.045 | V     |
| n/cm2                  | 0     | 1E+12 |
| LL                     | 5.045 | 5.045 |
| Min                    | 5.127 | 5.121 |
| Average                | 5.127 | 5.127 |
| Max                    | 5.127 | 5.136 |
| UL                     | 5.155 | 5.155 |

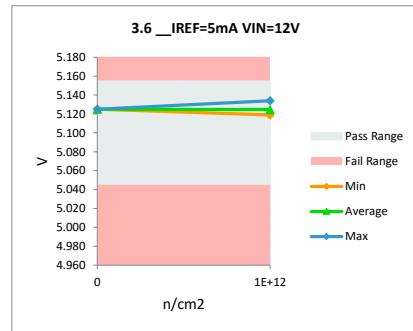


NDD Report  
UC1846-SP

| 3.6 IREF=5mA VIN=12V |          |           |          |        |
|----------------------|----------|-----------|----------|--------|
| Test Site            |          |           |          |        |
| Tester               |          |           |          |        |
| Test Number          |          |           |          |        |
| Unit                 | V        | V         |          |        |
| Max Limit            | 5.155    | 5.155     |          |        |
| Min Limit            | 5.045    | 5.045     |          |        |
| n/cm2                | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                | 28       | 5.109     | 5.119    | 0.010  |
| 1E+12                | 29       | 5.117     | 5.134    | 0.017  |
| 1E+12                | 30       | 5.112     | 5.121    | 0.009  |
| 0                    | 119      | 5.126     | 5.125    | -0.001 |
|                      | Max      | 5.126     | 5.134    | 0.017  |
|                      | Average  | 5.116     | 5.125    | 0.009  |
|                      | Min      | 5.109     | 5.119    | -0.001 |
|                      | Std Dev  | 0.007     | 0.007    | 0.007  |

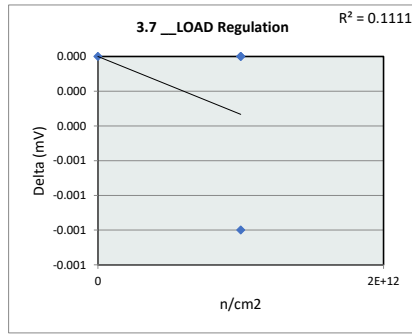


| 3.6 IREF=5mA VIN=12V |       |       |
|----------------------|-------|-------|
| Test Site            |       |       |
| Tester               |       |       |
| Test Number          |       |       |
| Max Limit            | 5.155 | V     |
| Min Limit            | 5.045 | V     |
| n/cm2                | 0     | 1E+12 |
| LL                   | 5.045 | 5.045 |
| Min                  | 5.125 | 5.119 |
| Average              | 5.125 | 5.125 |
| Max                  | 5.125 | 5.134 |
| UL                   | 5.155 | 5.155 |

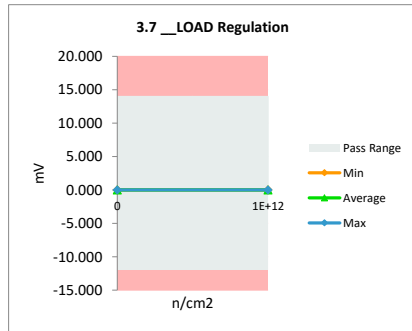


NDD Report  
UC1846-SP

| 3.7_LOAD Regulation |          |           |          |        |
|---------------------|----------|-----------|----------|--------|
| Test Site           |          |           |          |        |
| Tester              |          |           |          |        |
| Test Number         |          |           |          |        |
| Unit                |          | mV        | mV       |        |
| Max Limit           |          | 14        | 14       |        |
| Min Limit           |          | -14       | -12      |        |
| n/cm2               | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12               | 28       | 0.003     | 0.002    | -0.001 |
| 1E+12               | 29       | 0.002     | 0.002    | 0.000  |
| 1E+12               | 30       | 0.002     | 0.002    | 0.000  |
| 0                   | 119      | 0.002     | 0.002    | 0.000  |
|                     | Max      | 0.003     | 0.002    | 0.000  |
|                     | Average  | 0.002     | 0.002    | 0.000  |
|                     | Min      | 0.002     | 0.002    | -0.001 |
|                     | Std Dev  | 0.000     | 0.000    | 0.000  |



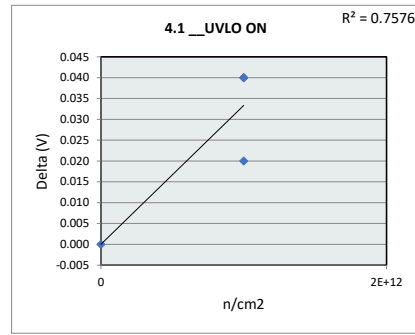
| 3.7_LOAD Regulation |         |         |
|---------------------|---------|---------|
| Test Site           |         |         |
| Tester              |         |         |
| Test Number         |         |         |
| Max Limit           | 14      | mV      |
| Min Limit           | -12     | mV      |
| n/cm2               | 0       | 1E+12   |
| LL                  | -12.000 | -12.000 |
| Min                 | 0.002   | 0.002   |
| Average             | 0.002   | 0.002   |
| Max                 | 0.002   | 0.002   |
| UL                  | 14.000  | 14.000  |



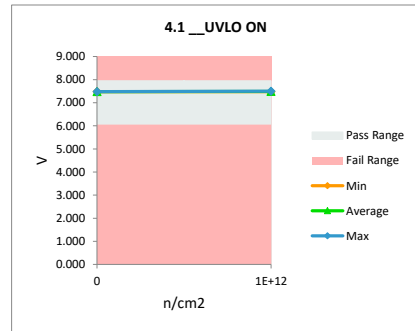


NDD Report  
UC1846-SP

| 4.1 __UVLO ON |          |           |          |       |
|---------------|----------|-----------|----------|-------|
| Test Site     |          |           |          |       |
| Tester        |          |           |          |       |
| Test Number   |          |           |          |       |
| Unit          | V        |           | V        |       |
| Max Limit     | 7.95     |           | 7.95     |       |
| Min Limit     | 6        |           | 6.05     |       |
| n/cm2         | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12         | 28       | 7.460     | 7.500    | 0.040 |
| 1E+12         | 29       | 7.460     | 7.480    | 0.020 |
| 1E+12         | 30       | 7.440     | 7.480    | 0.040 |
| 0             | 119      | 7.480     | 7.480    | 0.000 |
|               | Max      | 7.480     | 7.500    | 0.040 |
|               | Average  | 7.460     | 7.485    | 0.025 |
|               | Min      | 7.440     | 7.480    | 0.000 |
|               | Std Dev  | 0.016     | 0.010    | 0.019 |

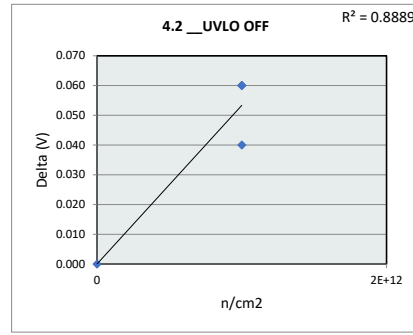


| 4.1 __UVLO ON |       |       |
|---------------|-------|-------|
| Test Site     |       |       |
| Tester        |       |       |
| Test Number   |       |       |
| Max Limit     | 7.95  | V     |
| Min Limit     | 6.05  | V     |
| n/cm2         | 0     | 1E+12 |
| LL            | 6.050 | 6.050 |
| Min           | 7.480 | 7.480 |
| Average       | 7.480 | 7.487 |
| Max           | 7.480 | 7.500 |
| UL            | 7.950 | 7.950 |

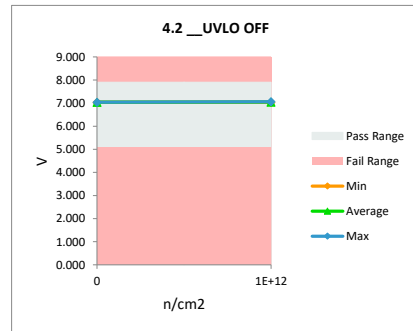


# NDD Report UC1846-SP

| 4.2 __UVLO OFF |          |           |          |       |
|----------------|----------|-----------|----------|-------|
| Test Site      |          |           |          |       |
| Tester         |          |           |          |       |
| Test Number    |          |           |          |       |
| Unit           | V        |           | V        |       |
| Max Limit      | 8        |           | 7.9      |       |
| Min Limit      | 5        |           | 5.1      |       |
| n/cm2          | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12          | 28       | 7.000     | 7.040    | 0.040 |
| 1E+12          | 29       | 7.000     | 7.060    | 0.060 |
| 1E+12          | 30       | 6.980     | 7.040    | 0.060 |
| 0              | 119      | 7.040     | 7.040    | 0.000 |
|                | Max      | 7.040     | 7.060    | 0.060 |
|                | Average  | 7.005     | 7.045    | 0.040 |
|                | Min      | 6.980     | 7.040    | 0.000 |
|                | Std Dev  | 0.025     | 0.010    | 0.028 |

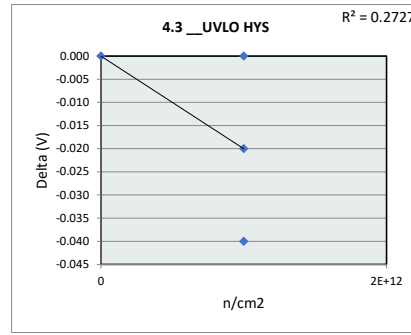


| 4.2 __UVLO OFF |       |       |
|----------------|-------|-------|
| Test Site      |       |       |
| Tester         |       |       |
| Test Number    |       |       |
| Max Limit      | 7.9   | V     |
| Min Limit      | 5.1   | V     |
| n/cm2          | 0     | 1E+12 |
| LL             | 5.100 | 5.100 |
| Min            | 7.040 | 7.040 |
| Average        | 7.040 | 7.047 |
| Max            | 7.040 | 7.060 |
| UL             | 7.900 | 7.900 |

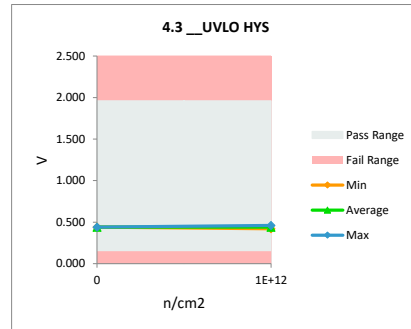


NDD Report  
UC1846-SP

| 4.3 __UVLO HYS |          |           |          |        |
|----------------|----------|-----------|----------|--------|
| Test Site      |          |           |          |        |
| Tester         |          |           |          |        |
| Test Number    |          |           |          |        |
| Unit           | V        |           | V        |        |
| Max Limit      | 2        |           | 1.96     |        |
| Min Limit      | 0.11     |           | 0.15     |        |
| n/cm2          | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12          | 28       | 0.460     | 0.460    | 0.000  |
| 1E+12          | 29       | 0.460     | 0.420    | -0.040 |
| 1E+12          | 30       | 0.460     | 0.440    | -0.020 |
| 0              | 119      | 0.440     | 0.440    | 0.000  |
|                | Max      | 0.460     | 0.460    | 0.000  |
|                | Average  | 0.455     | 0.440    | -0.015 |
|                | Min      | 0.440     | 0.420    | -0.040 |
|                | Std Dev  | 0.010     | 0.016    | 0.019  |

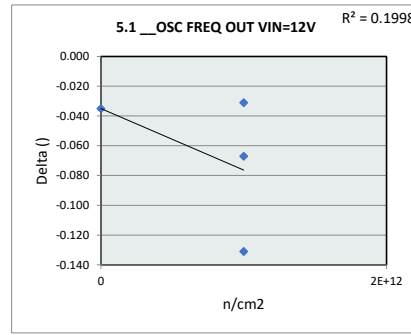


| 4.3 __UVLO HYS |       |       |
|----------------|-------|-------|
| Test Site      |       |       |
| Tester         |       |       |
| Test Number    |       |       |
| Max Limit      | 1.96  | V     |
| Min Limit      | 0.15  | V     |
| n/cm2          | 0     | 1E+12 |
| LL             | 0.150 | 0.150 |
| Min            | 0.440 | 0.420 |
| Average        | 0.440 | 0.440 |
| Max            | 0.440 | 0.460 |
| UL             | 1.960 | 1.960 |

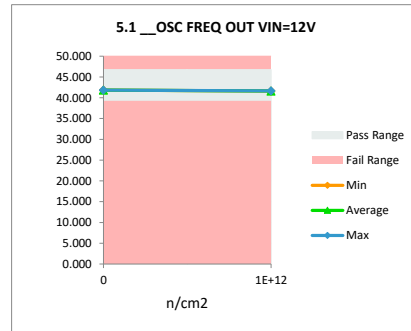


NDD Report  
UC1846-SP

| 5.1 __ OSC FREQ OUT VIN=12V |          |           |          |        |
|-----------------------------|----------|-----------|----------|--------|
| Test Site                   |          |           |          |        |
| Tester                      |          |           |          |        |
| Test Number                 |          |           |          |        |
| Unit                        |          |           |          |        |
| Max Limit                   |          | 46.75     | 46.75    |        |
| Min Limit                   |          | 39        | 39.25    |        |
| n/cm2                       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                       | 28       | 41.782    | 41.651   | -0.131 |
| 1E+12                       | 29       | 41.655    | 41.624   | -0.031 |
| 1E+12                       | 30       | 41.695    | 41.628   | -0.067 |
| 0                           | 119      | 41.874    | 41.839   | -0.035 |
|                             | Max      | 41.874    | 41.839   | -0.031 |
|                             | Average  | 41.752    | 41.686   | -0.066 |
|                             | Min      | 41.655    | 41.624   | -0.131 |
|                             | Std Dev  | 0.097     | 0.103    | 0.046  |

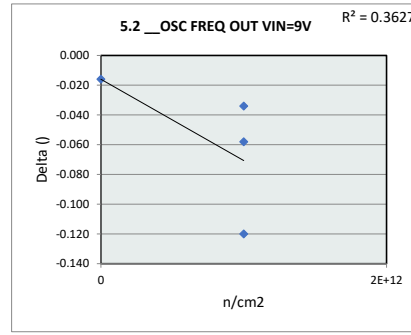


| 5.1 __ OSC FREQ OUT VIN=12V |        |        |
|-----------------------------|--------|--------|
| Test Site                   |        |        |
| Tester                      |        |        |
| Test Number                 |        |        |
| Max Limit                   | 46.75  |        |
| Min Limit                   | 39.25  |        |
| n/cm2                       | 0      | 1E+12  |
| LL                          | 39.250 | 39.250 |
| Min                         | 41.839 | 41.624 |
| Average                     | 41.839 | 41.634 |
| Max                         | 41.839 | 41.651 |
| UL                          | 46.750 | 46.750 |

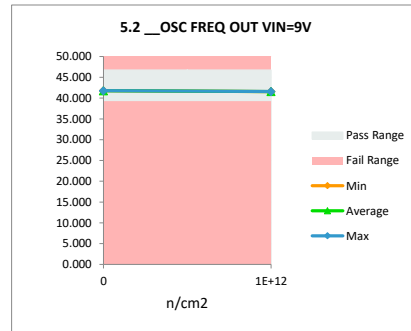


NDD Report  
UC1846-SP

| 5.2 __OSC FREQ OUT VIN=9V |          |           |          |        |
|---------------------------|----------|-----------|----------|--------|
| Test Site                 |          |           |          |        |
| Tester                    |          |           |          |        |
| Test Number               |          |           |          |        |
| Unit                      |          |           |          |        |
| Max Limit                 |          | 46.75     | 46.75    |        |
| Min Limit                 |          | 39        | 39.25    |        |
| n/cm2                     | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                     | 28       | 41.707    | 41.587   | -0.120 |
| 1E+12                     | 29       | 41.597    | 41.563   | -0.034 |
| 1E+12                     | 30       | 41.620    | 41.562   | -0.058 |
| 0                         | 119      | 41.805    | 41.789   | -0.016 |
|                           | Max      | 41.805    | 41.789   | -0.016 |
|                           | Average  | 41.682    | 41.625   | -0.057 |
|                           | Min      | 41.597    | 41.562   | -0.120 |
|                           | Std Dev  | 0.095     | 0.110    | 0.045  |

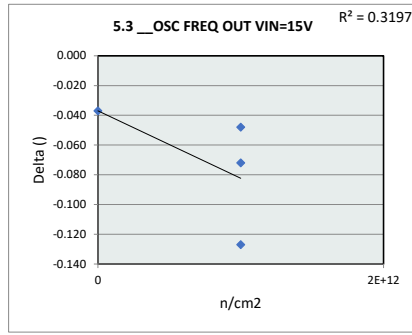


| 5.2 __OSC FREQ OUT VIN=9V |        |        |
|---------------------------|--------|--------|
| Test Site                 |        |        |
| Tester                    |        |        |
| Test Number               |        |        |
| Max Limit                 | 46.75  |        |
| Min Limit                 | 39.25  |        |
| n/cm2                     | 0      | 1E+12  |
| LL                        | 39.250 | 39.250 |
| Min                       | 41.789 | 41.562 |
| Average                   | 41.789 | 41.571 |
| Max                       | 41.789 | 41.587 |
| UL                        | 46.750 | 46.750 |

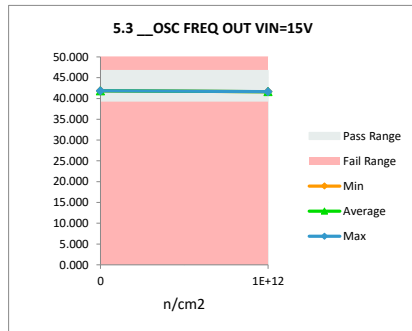


NDD Report  
UC1846-SP

| 5.3 __ OSC FREQ OUT VIN=15V |          |           |          |        |
|-----------------------------|----------|-----------|----------|--------|
| Test Site                   |          |           |          |        |
| Tester                      |          |           |          |        |
| Test Number                 |          |           |          |        |
| Unit                        |          |           |          |        |
| Max Limit                   |          | 46.75     | 46.75    |        |
| Min Limit                   |          | 39        | 39.25    |        |
| n/cm2                       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                       | 28       | 41.780    | 41.653   | -0.127 |
| 1E+12                       | 29       | 41.681    | 41.633   | -0.048 |
| 1E+12                       | 30       | 41.707    | 41.635   | -0.072 |
| 0                           | 119      | 41.892    | 41.855   | -0.037 |
|                             | Max      | 41.892    | 41.855   | -0.037 |
|                             | Average  | 41.765    | 41.694   | -0.071 |
|                             | Min      | 41.681    | 41.633   | -0.127 |
|                             | Std Dev  | 0.094     | 0.108    | 0.040  |

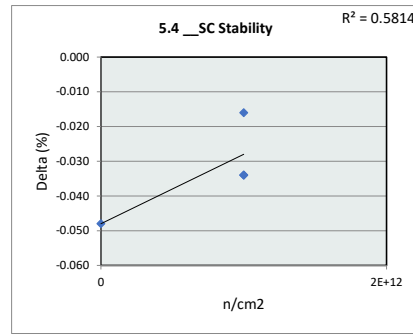


| 5.3 __ OSC FREQ OUT VIN=15V |        |        |
|-----------------------------|--------|--------|
| Test Site                   |        |        |
| Tester                      |        |        |
| Test Number                 |        |        |
| Max Limit                   | 46.75  |        |
| Min Limit                   | 39.25  |        |
| n/cm2                       | 0      | 1E+12  |
| LL                          | 39.250 | 39.250 |
| Min                         | 41.855 | 41.633 |
| Average                     | 41.855 | 41.640 |
| Max                         | 41.855 | 41.653 |
| UL                          | 46.750 | 46.750 |



# NDD Report UC1846-SP

| 5.4 __SC Stability |          |           |          |        |
|--------------------|----------|-----------|----------|--------|
| Test Site          |          |           |          |        |
| Tester             |          |           |          |        |
| Test Number        |          |           |          |        |
| Unit               |          | %         | %        |        |
| Max Limit          |          | 1.94      | 1.86     |        |
| Min Limit          |          | -1.94     | -1.86    |        |
| n/cm2              | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12              | 28       | 0.175     | 0.159    | -0.016 |
| 1E+12              | 29       | 0.201     | 0.167    | -0.034 |
| 1E+12              | 30       | 0.208     | 0.174    | -0.034 |
| 0                  | 119      | 0.206     | 0.158    | -0.048 |
|                    | Max      | 0.208     | 0.174    | -0.016 |
|                    | Average  | 0.198     | 0.164    | -0.033 |
|                    | Min      | 0.175     | 0.158    | -0.048 |
|                    | Std Dev  | 0.015     | 0.008    | 0.013  |

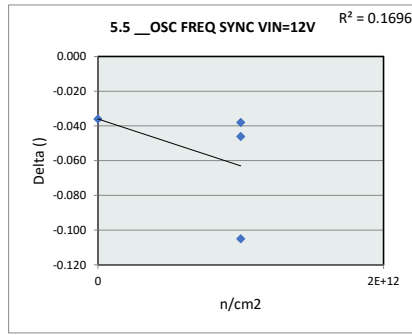


| 5.4 __SC Stability |        |        |
|--------------------|--------|--------|
| Test Site          |        |        |
| Tester             |        |        |
| Test Number        |        |        |
| Max Limit          | 1.86   | %      |
| Min Limit          | -1.86  | %      |
| n/cm2              | 0      | 1E+12  |
| LL                 | -1.860 | -1.860 |
| Min                | 0.158  | 0.159  |
| Average            | 0.158  | 0.167  |
| Max                | 0.158  | 0.174  |
| UL                 | 1.860  | 1.860  |

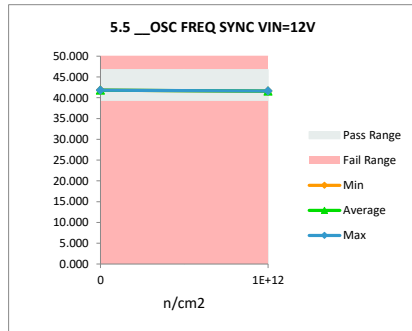


NDD Report  
UC1846-SP

| 5.5 __OSC FREQ SYNC VIN=12V |          |           |          |        |
|-----------------------------|----------|-----------|----------|--------|
| Test Site                   |          |           |          |        |
| Tester                      |          |           |          |        |
| Test Number                 |          |           |          |        |
| Unit                        |          |           |          |        |
| Max Limit                   |          | 46.75     | 46.75    |        |
| Min Limit                   |          | 39        | 39.25    |        |
| n/cm2                       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                       | 28       | 41.721    | 41.616   | -0.105 |
| 1E+12                       | 29       | 41.624    | 41.586   | -0.038 |
| 1E+12                       | 30       | 41.644    | 41.598   | -0.046 |
| 0                           | 119      | 41.852    | 41.816   | -0.036 |
|                             | Max      | 41.852    | 41.816   | -0.036 |
|                             | Average  | 41.710    | 41.654   | -0.056 |
|                             | Min      | 41.624    | 41.586   | -0.105 |
|                             | Std Dev  | 0.103     | 0.109    | 0.033  |



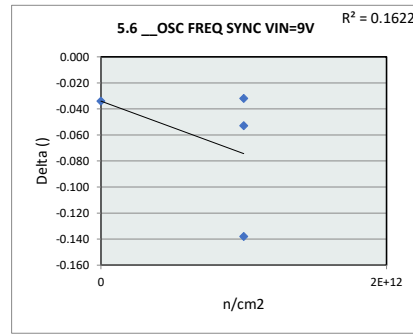
| 5.5 __OSC FREQ SYNC VIN=12V |        |        |
|-----------------------------|--------|--------|
| Test Site                   |        |        |
| Tester                      |        |        |
| Test Number                 |        |        |
| Max Limit                   | 46.75  |        |
| Min Limit                   | 39.25  |        |
| n/cm2                       | 0      | 1E+12  |
| LL                          | 39.250 | 39.250 |
| Min                         | 41.816 | 41.586 |
| Average                     | 41.816 | 41.600 |
| Max                         | 41.816 | 41.616 |
| UL                          | 46.750 | 46.750 |



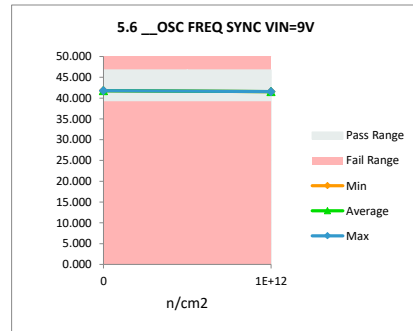


NDD Report  
UC1846-SP

| 5.6 __OSC FREQ SYNC VIN=9V |          |           |          |        |
|----------------------------|----------|-----------|----------|--------|
| Test Site                  |          |           |          |        |
| Tester                     |          |           |          |        |
| Test Number                |          |           |          |        |
| Unit                       |          |           |          |        |
| Max Limit                  |          | 46.75     | 46.75    |        |
| Min Limit                  |          | 39        | 39.25    |        |
| n/cm2                      | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                      | 28       | 41.701    | 41.563   | -0.138 |
| 1E+12                      | 29       | 41.585    | 41.553   | -0.032 |
| 1E+12                      | 30       | 41.619    | 41.566   | -0.053 |
| 0                          | 119      | 41.814    | 41.780   | -0.034 |
|                            | Max      | 41.814    | 41.780   | -0.032 |
|                            | Average  | 41.680    | 41.616   | -0.064 |
|                            | Min      | 41.585    | 41.553   | -0.138 |
|                            | Std Dev  | 0.102     | 0.110    | 0.050  |

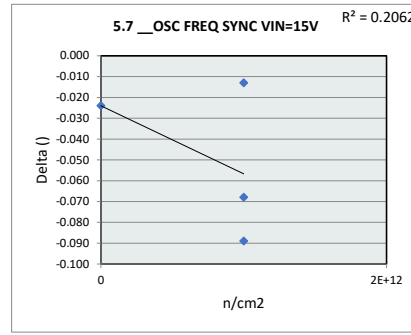


| 5.6 __OSC FREQ SYNC VIN=9V |        |        |
|----------------------------|--------|--------|
| Test Site                  |        |        |
| Tester                     |        |        |
| Test Number                |        |        |
| Max Limit                  | 46.75  |        |
| Min Limit                  | 39.25  |        |
| n/cm2                      | 0      | 1E+12  |
| LL                         | 39.250 | 39.250 |
| Min                        | 41.780 | 41.553 |
| Average                    | 41.780 | 41.561 |
| Max                        | 41.780 | 41.566 |
| UL                         | 46.750 | 46.750 |

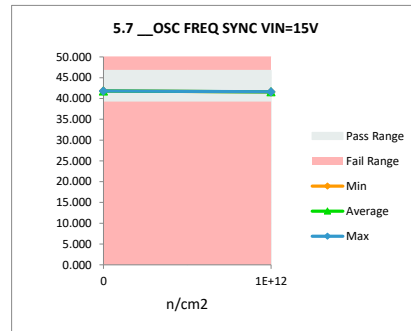


NDD Report  
UC1846-SP

| 5.7 __ OSC FREQ SYNC VIN=15V |          |           |          |        |
|------------------------------|----------|-----------|----------|--------|
| Test Site                    |          |           |          |        |
| Tester                       |          |           |          |        |
| Test Number                  |          |           |          |        |
| Unit                         |          |           |          |        |
| Max Limit                    |          | 46.75     | 46.75    |        |
| Min Limit                    |          | 39        | 39.25    |        |
| n/cm2                        | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                        | 28       | 41.705    | 41.616   | -0.089 |
| 1E+12                        | 29       | 41.597    | 41.584   | -0.013 |
| 1E+12                        | 30       | 41.660    | 41.592   | -0.068 |
| 0                            | 119      | 41.828    | 41.804   | -0.024 |
|                              | Max      | 41.828    | 41.804   | -0.013 |
|                              | Average  | 41.698    | 41.649   | -0.049 |
|                              | Min      | 41.597    | 41.584   | -0.089 |
|                              | Std Dev  | 0.098     | 0.104    | 0.036  |

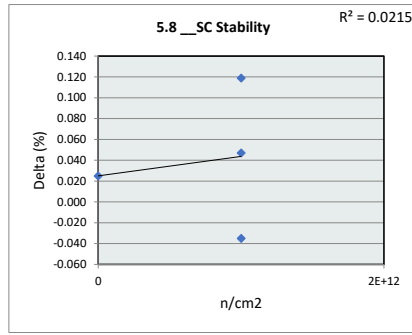


| 5.7 __ OSC FREQ SYNC VIN=15 |        |        |
|-----------------------------|--------|--------|
| Test Site                   |        |        |
| Tester                      |        |        |
| Test Number                 |        |        |
| Max Limit                   | 46.75  |        |
| Min Limit                   | 39.25  |        |
| n/cm2                       | 0      | 1E+12  |
| LL                          | 39.250 | 39.250 |
| Min                         | 41.804 | 41.584 |
| Average                     | 41.804 | 41.597 |
| Max                         | 41.804 | 41.616 |
| UL                          | 46.750 | 46.750 |



NDD Report  
UC1846-SP

| 5.8 __SC Stability |          |           |          |        |
|--------------------|----------|-----------|----------|--------|
| Test Site          |          |           |          |        |
| Tester             |          |           |          |        |
| Test Number        |          |           |          |        |
| Unit               | %        | %         |          |        |
| Max Limit          | 1.94     | 1.86      |          |        |
| Min Limit          | -1.94    | -1.86     |          |        |
| n/cm2              | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12              | 28       | 0.010     | 0.129    | 0.119  |
| 1E+12              | 29       | 0.027     | 0.074    | 0.047  |
| 1E+12              | 30       | 0.098     | 0.063    | -0.035 |
| 0                  | 119      | 0.033     | 0.058    | 0.025  |
|                    | Max      | 0.098     | 0.129    | 0.119  |
|                    | Average  | 0.042     | 0.081    | 0.039  |
|                    | Min      | 0.010     | 0.058    | -0.035 |
|                    | Std Dev  | 0.039     | 0.033    | 0.064  |

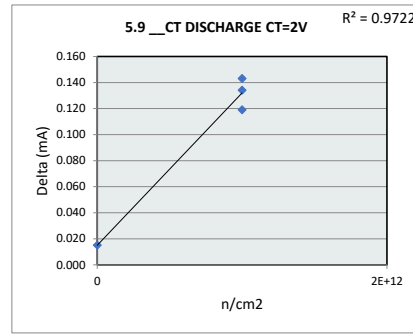


| 5.8 __SC Stability |        |        |
|--------------------|--------|--------|
| Test Site          |        |        |
| Tester             |        |        |
| Test Number        |        |        |
| Max Limit          | 1.86   | %      |
| Min Limit          | -1.86  | %      |
| n/cm2              | 0      | 1E+12  |
| LL                 | -1.860 | -1.860 |
| Min                | 0.058  | 0.063  |
| Average            | 0.058  | 0.089  |
| Max                | 0.058  | 0.129  |
| UL                 | 1.860  | 1.860  |

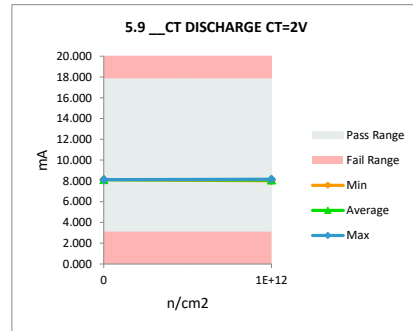


# NDD Report UC1846-SP

| 5.9 CT DISCHARGE CT=2V |          |           |          |       |
|------------------------|----------|-----------|----------|-------|
| Test Site              |          |           |          |       |
| Tester                 |          |           |          |       |
| Test Number            |          |           |          |       |
| Unit                   |          | mA        | mA       |       |
| Max Limit              |          | 17.98     | 17.8     |       |
| Min Limit              |          | 3.02      | 3.12     |       |
| n/cm2                  | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12                  | 28       | 8.025     | 8.159    | 0.134 |
| 1E+12                  | 29       | 7.937     | 8.080    | 0.143 |
| 1E+12                  | 30       | 7.892     | 8.011    | 0.119 |
| 0                      | 119      | 8.105     | 8.120    | 0.015 |
|                        | Max      | 8.105     | 8.159    | 0.143 |
|                        | Average  | 7.990     | 8.092    | 0.103 |
|                        | Min      | 7.892     | 8.011    | 0.015 |
|                        | Std Dev  | 0.095     | 0.063    | 0.059 |



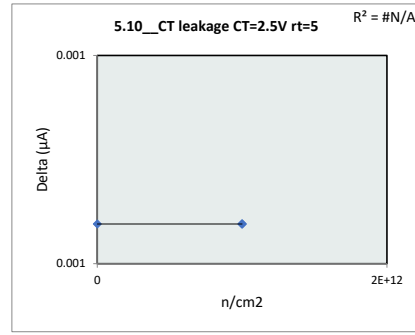
| 5.9 CT DISCHARGE CT=2V |        |        |
|------------------------|--------|--------|
| Test Site              |        |        |
| Tester                 |        |        |
| Test Number            |        |        |
| Max Limit              | 17.8   | mA     |
| Min Limit              | 3.12   | mA     |
| n/cm2                  | 0      | 1E+12  |
| LL                     | 3.120  | 3.120  |
| Min                    | 8.120  | 8.011  |
| Average                | 8.120  | 8.083  |
| Max                    | 8.120  | 8.159  |
| UL                     | 17.800 | 17.800 |



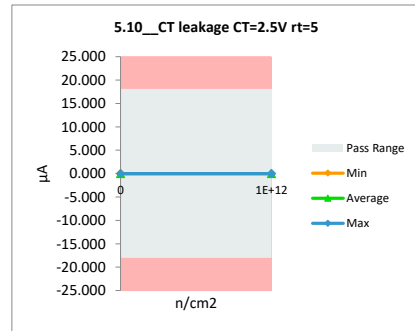
NDD Report  
UC1846-SP

| 5.10 CT leakage CT=2.5V rt=5 |     |
|------------------------------|-----|
| Test Site                    |     |
| Tester                       |     |
| Test Number                  |     |
| Unit                         | μA  |
| Max Limit                    | 18  |
| Min Limit                    | -18 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta |
|-------|----------|-----------|----------|-------|
| 1E+12 | 28       | 0.000     | 0.001    | 0.001 |
| 1E+12 | 29       | 0.000     | 0.001    | 0.001 |
| 1E+12 | 30       | 0.000     | 0.001    | 0.001 |
| 0     | 119      | 0.000     | 0.001    | 0.001 |
|       | Max      | 0.000     | 0.001    | 0.001 |
|       | Average  | 0.000     | 0.001    | 0.001 |
|       | Min      | 0.000     | 0.001    | 0.001 |
|       | Std Dev  | 0.000     | 0.000    | 0.000 |

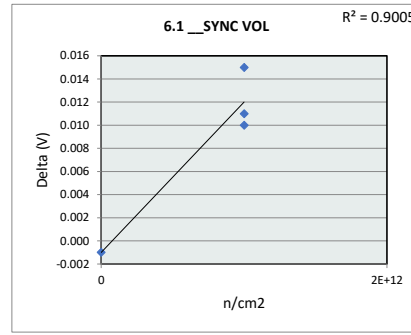


| 5.10 CT leakage CT=2.5V rt= |                 |
|-----------------------------|-----------------|
| Test Site                   |                 |
| Tester                      |                 |
| Test Number                 |                 |
| Max Limit                   | 18 μA           |
| Min Limit                   | -18 μA          |
| n/cm2                       | 0 1E+12         |
| LL                          | -18.000 -18.000 |
| Min                         | 0.001 0.001     |
| Average                     | 0.001 0.001     |
| Max                         | 0.001 0.001     |
| UL                          | 18.000 18.000   |

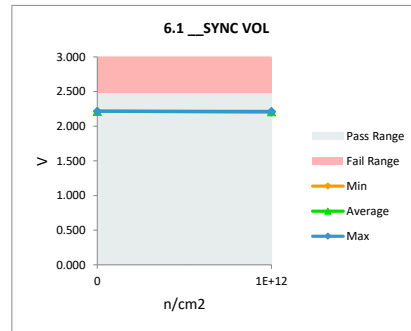


NDD Report  
UC1846-SP

| 6.1 __SYNC VOL |          |           |          |        |
|----------------|----------|-----------|----------|--------|
| Test Site      |          |           |          |        |
| Tester         |          |           |          |        |
| Test Number    |          |           |          |        |
| Unit           | V        |           | V        |        |
| Max Limit      | 2.48     |           | 2.47     |        |
| Min Limit      | 0        |           | 0        |        |
| n/cm2          | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12          | 28       | 2.204     | 2.214    | 0.010  |
| 1E+12          | 29       | 2.195     | 2.210    | 0.015  |
| 1E+12          | 30       | 2.192     | 2.203    | 0.011  |
| 0              | 119      | 2.217     | 2.216    | -0.001 |
|                | Max      | 2.217     | 2.216    | 0.015  |
|                | Average  | 2.202     | 2.211    | 0.009  |
|                | Min      | 2.192     | 2.203    | -0.001 |
|                | Std Dev  | 0.011     | 0.006    | 0.007  |

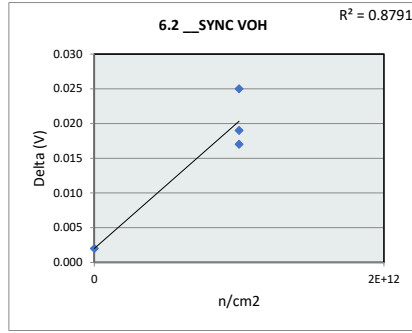


| 6.1 __SYNC VOL |       |       |
|----------------|-------|-------|
| Test Site      |       |       |
| Tester         |       |       |
| Test Number    |       |       |
| Max Limit      | 2.47  | V     |
| Min Limit      | 0     | V     |
| n/cm2          | 0     | 1E+12 |
| LL             | 0.000 | 0.000 |
| Min            | 2.216 | 2.203 |
| Average        | 2.216 | 2.209 |
| Max            | 2.216 | 2.214 |
| UL             | 2.470 | 2.470 |

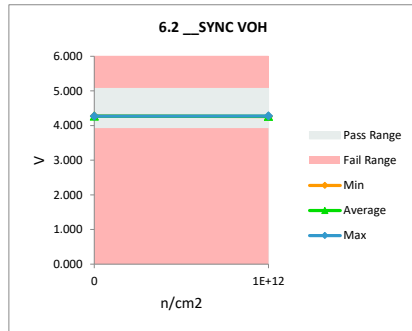


NDD Report  
UC1846-SP

| 6.2 __SYNC VOH |          |           |          |       |
|----------------|----------|-----------|----------|-------|
| Test Site      |          |           |          |       |
| Tester         |          |           |          |       |
| Test Number    |          |           |          |       |
| Unit           | V        |           | V        |       |
| Max Limit      | 5.09     |           | 5.07     |       |
| Min Limit      | 3.91     |           | 3.93     |       |
| n/cm2          | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12          | 28       | 4.248     | 4.267    | 0.019 |
| 1E+12          | 29       | 4.250     | 4.275    | 0.025 |
| 1E+12          | 30       | 4.243     | 4.260    | 0.017 |
| 0              | 119      | 4.269     | 4.271    | 0.002 |
|                | Max      | 4.269     | 4.275    | 0.025 |
|                | Average  | 4.253     | 4.268    | 0.016 |
|                | Min      | 4.243     | 4.260    | 0.002 |
|                | Std Dev  | 0.011     | 0.006    | 0.010 |

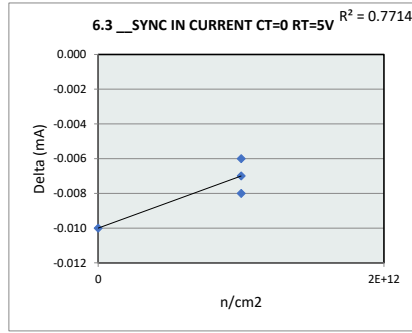


| 6.2 __SYNC VOH |       |       |
|----------------|-------|-------|
| Test Site      |       |       |
| Tester         |       |       |
| Test Number    |       |       |
| Max Limit      | 5.07  | V     |
| Min Limit      | 3.93  | V     |
| n/cm2          | 0     | 1E+12 |
| LL             | 3.930 | 3.930 |
| Min            | 4.271 | 4.260 |
| Average        | 4.271 | 4.267 |
| Max            | 4.271 | 4.275 |
| UL             | 5.070 | 5.070 |

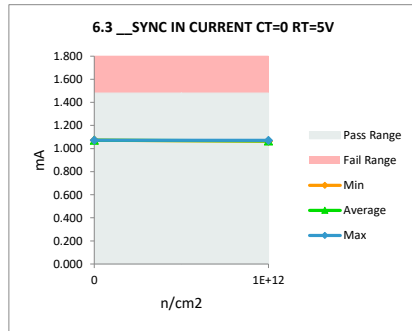


NDD Report  
UC1846-SP

| 6.3 __SYNC IN CURRENT CT=0 RT=5V |          |           |          |        |
|----------------------------------|----------|-----------|----------|--------|
| Test Site                        |          |           |          |        |
| Tester                           |          |           |          |        |
| Test Number                      |          |           |          |        |
| Unit                             |          | mA        | mA       |        |
| Max Limit                        |          | 1.49      | 1.48     |        |
| Min Limit                        |          | 0         | 0        |        |
| n/cm2                            | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                            | 28       | 1.079     | 1.071    | -0.008 |
| 1E+12                            | 29       | 1.070     | 1.064    | -0.006 |
| 1E+12                            | 30       | 1.072     | 1.065    | -0.007 |
| 0                                | 119      | 1.082     | 1.072    | -0.010 |
|                                  | Max      | 1.082     | 1.072    | -0.006 |
|                                  | Average  | 1.076     | 1.068    | -0.008 |
|                                  | Min      | 1.070     | 1.064    | -0.010 |
|                                  | Std Dev  | 0.006     | 0.004    | 0.002  |



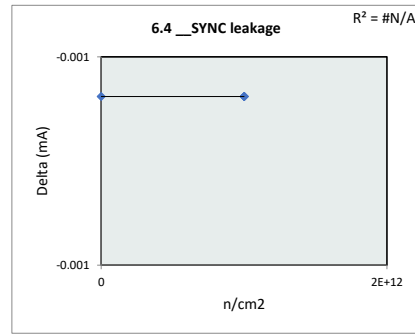
| 6.3 __SYNC IN CURRENT CT=0 |       |       |
|----------------------------|-------|-------|
| Test Site                  |       |       |
| Tester                     |       |       |
| Test Number                |       |       |
| Max Limit                  | 1.48  | mA    |
| Min Limit                  | 0     | mA    |
| n/cm2                      | 0     | 1E+12 |
| LL                         | 0.000 | 0.000 |
| Min                        | 1.072 | 1.064 |
| Average                    | 1.072 | 1.067 |
| Max                        | 1.072 | 1.071 |
| UL                         | 1.480 | 1.480 |



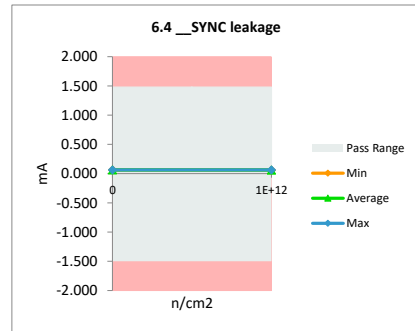


NDD Report  
UC1846-SP

| 6.4 __SYNC leakage |          |           |          |        |
|--------------------|----------|-----------|----------|--------|
| Test Site          |          |           |          |        |
| Tester             |          |           |          |        |
| Test Number        |          |           |          |        |
| Unit               |          | mA        | mA       |        |
| Max Limit          |          | 1.49      | 1.48     |        |
| Min Limit          |          | -1.5      | -1.5     |        |
| n/cm2              | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12              | 28       | 0.064     | 0.063    | -0.001 |
| 1E+12              | 29       | 0.063     | 0.062    | -0.001 |
| 1E+12              | 30       | 0.063     | 0.062    | -0.001 |
| 0                  | 119      | 0.064     | 0.063    | -0.001 |
|                    | Max      | 0.064     | 0.063    | -0.001 |
|                    | Average  | 0.064     | 0.063    | -0.001 |
|                    | Min      | 0.063     | 0.062    | -0.001 |
|                    | Std Dev  | 0.001     | 0.001    | 0.000  |



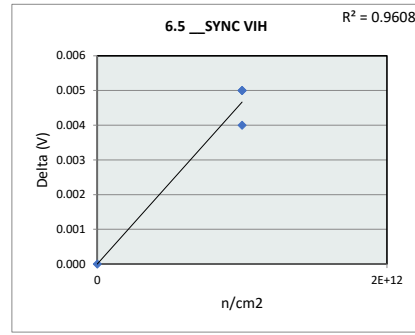
| 6.4 __SYNC leakage |        |        |
|--------------------|--------|--------|
| Test Site          |        |        |
| Tester             |        |        |
| Test Number        |        |        |
| Max Limit          | 1.48   | mA     |
| Min Limit          | -1.5   | mA     |
| n/cm2              | 0      | 1E+12  |
| LL                 | -1.500 | -1.500 |
| Min                | 0.063  | 0.062  |
| Average            | 0.063  | 0.062  |
| Max                | 0.063  | 0.063  |
| UL                 | 1.480  | 1.480  |



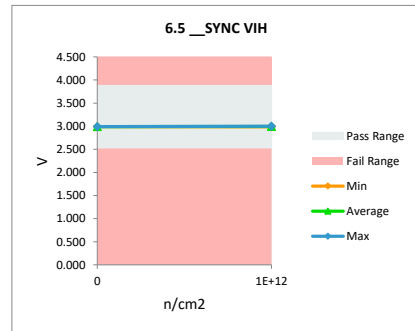
NDD Report  
UC1846-SP

| 6.5_SYNC VIH |      |
|--------------|------|
| Test Site    |      |
| Tester       |      |
| Test Number  |      |
| Unit         | V    |
| Max Limit    | 3.89 |
| Min Limit    | 2.51 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta |
|-------|----------|-----------|----------|-------|
| 1E+12 | 28       | 2.982     | 2.987    | 0.005 |
| 1E+12 | 29       | 2.996     | 3.000    | 0.004 |
| 1E+12 | 30       | 2.991     | 2.996    | 0.005 |
| 0     | 119      | 2.991     | 2.991    | 0.000 |
|       | Max      | 2.996     | 3.000    | 0.005 |
|       | Average  | 2.990     | 2.993    | 0.003 |
|       | Min      | 2.982     | 2.987    | 0.000 |
|       | Std Dev  | 0.006     | 0.006    | 0.002 |



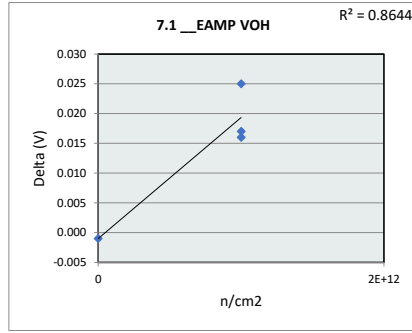
| 6.5_SYNC VIH |       |
|--------------|-------|
| Test Site    |       |
| Tester       |       |
| Test Number  |       |
| Max Limit    | 3.88  |
| Min Limit    | 2.52  |
| n/cm2        | 0     |
| LL           | 2.520 |
| Min          | 2.991 |
| Average      | 2.991 |
| Max          | 2.991 |
| UL           | 3.880 |



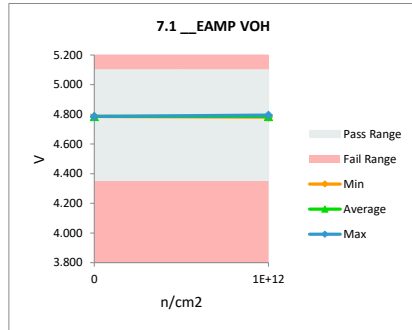
NDD Report  
UC1846-SP

| 7.1 __EAMP VOH |      |      |
|----------------|------|------|
| Test Site      |      |      |
| Tester         |      |      |
| Test Number    |      |      |
| Unit           | V    | V    |
| Max Limit      | 5.1  | 5.1  |
| Min Limit      | 4.31 | 4.35 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 4.765     | 4.781    | 0.016  |
| 1E+12 | 29       | 4.770     | 4.795    | 0.025  |
| 1E+12 | 30       | 4.765     | 4.782    | 0.017  |
| 0     | 119      | 4.787     | 4.786    | -0.001 |
|       | Max      | 4.787     | 4.795    | 0.025  |
|       | Average  | 4.772     | 4.786    | 0.014  |
|       | Min      | 4.765     | 4.781    | -0.001 |
|       | Std Dev  | 0.010     | 0.006    | 0.011  |

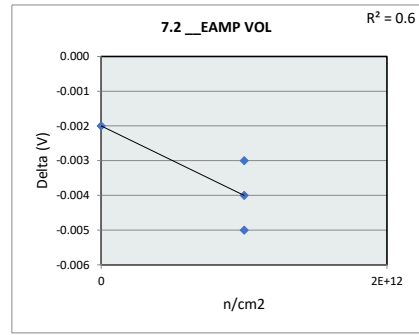


| 7.1 __EAMP VOH |       |       |
|----------------|-------|-------|
| Test Site      |       |       |
| Tester         |       |       |
| Test Number    |       |       |
| Max Limit      | 5.1   | V     |
| Min Limit      | 4.35  | V     |
| n/cm2          | 0     | 1E+12 |
| LL             | 4.350 | 4.350 |
| Min            | 4.786 | 4.781 |
| Average        | 4.786 | 4.786 |
| Max            | 4.786 | 4.795 |
| UL             | 5.100 | 5.100 |

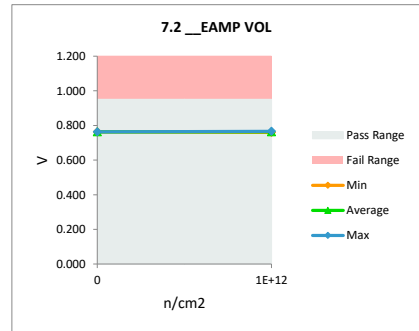


NDD Report  
UC1846-SP

| 7.2 __EAMP VOL |          |           |          |        |
|----------------|----------|-----------|----------|--------|
| Test Site      |          |           |          |        |
| Tester         |          |           |          |        |
| Test Number    |          |           |          |        |
| Unit           | V        | V         |          |        |
| Max Limit      | 0.97     | 0.95      |          |        |
| Min Limit      | 0        | 0         |          |        |
| n/cm2          | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12          | 28       | 0.765     | 0.760    | -0.005 |
| 1E+12          | 29       | 0.768     | 0.764    | -0.004 |
| 1E+12          | 30       | 0.769     | 0.766    | -0.003 |
| 0              | 119      | 0.765     | 0.763    | -0.002 |
|                | Max      | 0.769     | 0.766    | -0.002 |
|                | Average  | 0.767     | 0.763    | -0.003 |
|                | Min      | 0.765     | 0.760    | -0.005 |
|                | Std Dev  | 0.002     | 0.002    | 0.001  |

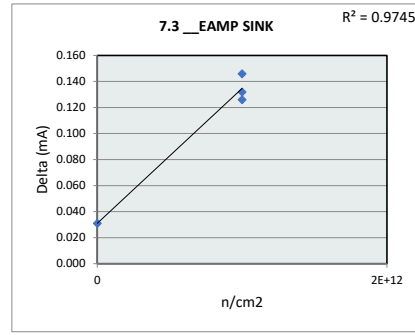


| 7.2 __EAMP VOL |       |       |
|----------------|-------|-------|
| Test Site      |       |       |
| Tester         |       |       |
| Test Number    |       |       |
| Max Limit      | 0.95  | V     |
| Min Limit      | 0     | V     |
| n/cm2          | 0     | 1E+12 |
| LL             | 0.000 | 0.000 |
| Min            | 0.763 | 0.760 |
| Average        | 0.763 | 0.763 |
| Max            | 0.763 | 0.766 |
| UL             | 0.950 | 0.950 |

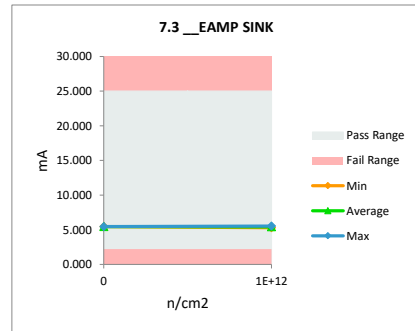


# NDD Report UC1846-SP

| 7.3 _EAMP SINK |          |           |          |       |
|----------------|----------|-----------|----------|-------|
| Test Site      |          |           |          |       |
| Tester         |          |           |          |       |
| Test Number    |          |           |          |       |
| Unit           |          | mA        | mA       |       |
| Max Limit      |          | 25        | 25       |       |
| Min Limit      |          | 2.2       | 2.2      |       |
| n/cm2          | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12          | 28       | 5.389     | 5.535    | 0.146 |
| 1E+12          | 29       | 5.282     | 5.414    | 0.132 |
| 1E+12          | 30       | 5.165     | 5.291    | 0.126 |
| 0              | 119      | 5.428     | 5.459    | 0.031 |
|                | Max      | 5.428     | 5.535    | 0.146 |
|                | Average  | 5.316     | 5.425    | 0.109 |
|                | Min      | 5.165     | 5.291    | 0.031 |
|                | Std Dev  | 0.118     | 0.102    | 0.053 |

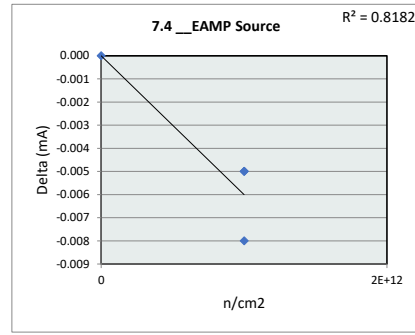


| 7.3 _EAMP SINK |        |        |
|----------------|--------|--------|
| Test Site      |        |        |
| Tester         |        |        |
| Test Number    |        |        |
| Max Limit      | 25     | mA     |
| Min Limit      | 2.2    | mA     |
| n/cm2          | 0      | 1E+12  |
| LL             | 2.200  | 2.200  |
| Min            | 5.459  | 5.291  |
| Average        | 5.459  | 5.413  |
| Max            | 5.459  | 5.535  |
| UL             | 25.000 | 25.000 |

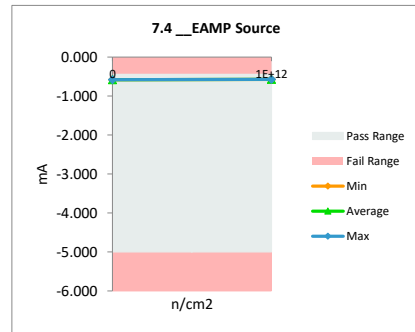


NDD Report  
UC1846-SP

| 7.4 __EAMP Source |          |           |          |        |
|-------------------|----------|-----------|----------|--------|
| Test Site         |          |           |          |        |
| Tester            |          |           |          |        |
| Test Number       |          |           |          |        |
| Unit              |          | mA        | mA       |        |
| Max Limit         |          | -0.408    | -0.428   |        |
| Min Limit         |          | -5        | -5       |        |
| n/cm2             | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12             | 28       | -0.567    | -0.572   | -0.005 |
| 1E+12             | 29       | -0.565    | -0.573   | -0.008 |
| 1E+12             | 30       | -0.566    | -0.571   | -0.005 |
| 0                 | 119      | -0.580    | -0.580   | 0.000  |
|                   | Max      | -0.565    | -0.571   | 0.000  |
|                   | Average  | -0.569    | -0.574   | -0.005 |
|                   | Min      | -0.580    | -0.580   | -0.008 |
|                   | Std Dev  | 0.007     | 0.004    | 0.003  |



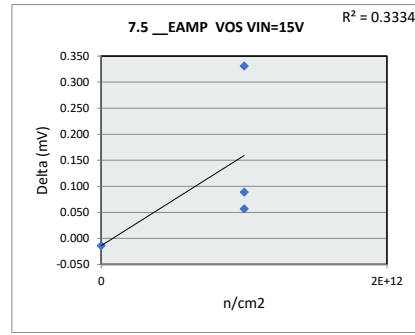
| 7.4 __EAMP Source |        |        |
|-------------------|--------|--------|
| Test Site         |        |        |
| Tester            |        |        |
| Test Number       |        |        |
| Max Limit         | -0.428 | mA     |
| Min Limit         | -5     | mA     |
| n/cm2             | 0      | 1E+12  |
| LL                | -5.000 | -5.000 |
| Min               | -0.580 | -0.573 |
| Average           | -0.580 | -0.572 |
| Max               | -0.580 | -0.571 |
| UL                | -0.428 | -0.428 |



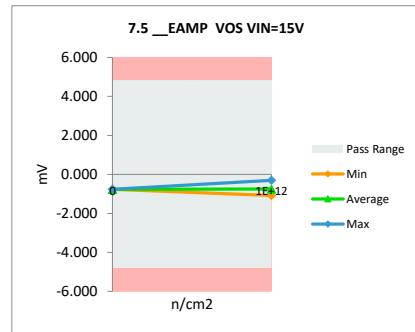
NDD Report  
UC1846-SP

| 7.5 __EAMP VOS VIN=15V |      |      |
|------------------------|------|------|
| Test Site              |      |      |
| Tester                 |      |      |
| Test Number            |      |      |
| Unit                   | mV   | mV   |
| Max Limit              | 4.9  | 4.8  |
| Min Limit              | -4.9 | -4.8 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | -0.394    | -0.305   | 0.089  |
| 1E+12 | 29       | -1.193    | -0.862   | 0.331  |
| 1E+12 | 30       | -1.141    | -1.084   | 0.057  |
| 0     | 119      | -0.753    | -0.767   | -0.014 |
|       | Max      | -0.394    | -0.305   | 0.331  |
|       | Average  | -0.870    | -0.755   | 0.116  |
|       | Min      | -1.193    | -1.084   | -0.014 |
|       | Std Dev  | 0.373     | 0.328    | 0.150  |

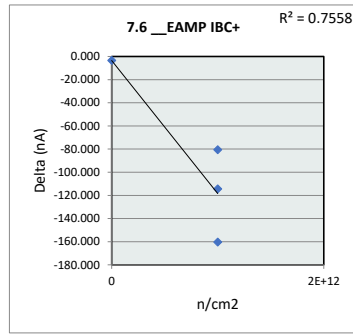


| 7.5 __EAMP VOS VIN=15V |        |        |
|------------------------|--------|--------|
| Test Site              |        |        |
| Tester                 |        |        |
| Test Number            |        |        |
| Max Limit              | 4.8    | mV     |
| Min Limit              | -4.8   | mV     |
| n/cm2                  | 0      | 1E+12  |
| LL                     | -4.800 | -4.800 |
| Min                    | -0.767 | -1.084 |
| Average                | -0.767 | -0.750 |
| Max                    | -0.767 | -0.305 |
| UL                     | 4.800  | 4.800  |

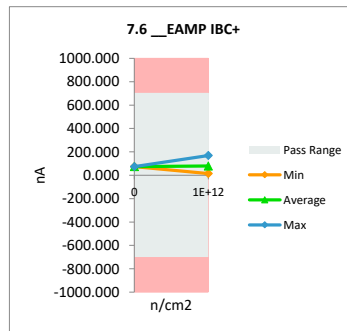


NDD Report  
UC1846-SP

| 7.6 __EAMP IBC+ |          |           |          |          |
|-----------------|----------|-----------|----------|----------|
| Test Site       |          |           |          |          |
| Tester          |          |           |          |          |
| Test Number     |          |           |          |          |
| Unit            | nA       | nA        |          |          |
| Max Limit       | 980      | 700       |          |          |
| Min Limit       | -980     | -700      |          |          |
| n/cm2           | Serial # | Post Edit | Pre Edit | Delta    |
| 1E+12           | 28       | 249.267   | 168.659  | -80.608  |
| 1E+12           | 29       | 169.415   | 55.007   | -114.408 |
| 1E+12           | 30       | 174.539   | 14.212   | -160.327 |
| 0               | 119      | 77.393    | 73.895   | -3.498   |
|                 | Max      | 249.267   | 168.659  | -3.498   |
|                 | Average  | 167.653   | 77.943   | -89.710  |
|                 | Min      | 77.393    | 14.212   | -160.327 |
|                 | Std Dev  | 70.376    | 65.405   | 66.111   |



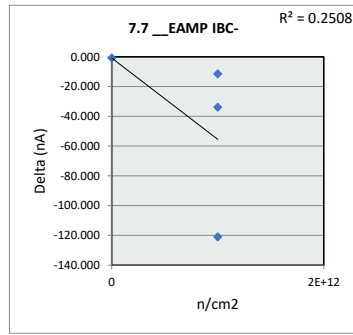
| 7.6 __EAMP IBC+ |          |          |
|-----------------|----------|----------|
| Test Site       |          |          |
| Tester          |          |          |
| Test Number     |          |          |
| Max Limit       | 700      | nA       |
| Min Limit       | -700     | nA       |
| n/cm2           | 0        | 1E+12    |
| LL              | -700.000 | -700.000 |
| Min             | 73.895   | 14.212   |
| Average         | 73.895   | 79.293   |
| Max             | 73.895   | 168.659  |
| UL              | 700.000  | 700.000  |



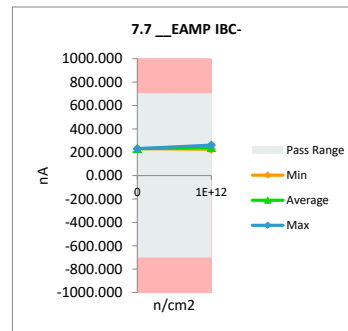


### NDD Report UC1846-SP

| 7.7 __EAMP IBC- |          |           |          |          |
|-----------------|----------|-----------|----------|----------|
| Test Site       |          |           |          |          |
| Tester          |          |           |          |          |
| Test Number     |          |           |          |          |
| Unit            | nA       | nA        |          |          |
| Max Limit       | 980      | 700       |          |          |
| Min Limit       | -980     | -700      |          |          |
| n/cm2           | Serial # | Post Edit | Pre Edit | Delta    |
| 1E+12           | 28       | 346.756   | 225.793  | -120.963 |
| 1E+12           | 29       | 267.058   | 233.143  | -33.915  |
| 1E+12           | 30       | 272.194   | 260.758  | -11.436  |
| 0               | 119      | 231.468   | 230.693  | -0.775   |
|                 | Max      | 346.756   | 260.758  | -0.775   |
|                 | Average  | 279.369   | 237.597  | -41.772  |
|                 | Min      | 231.468   | 225.793  | -120.963 |
|                 | Std Dev  | 48.437    | 15.740   | 54.571   |

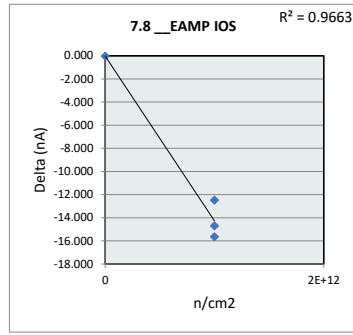


| 7.7 __EAMP IBC- |          |          |
|-----------------|----------|----------|
| Test Site       |          |          |
| Tester          |          |          |
| Test Number     |          |          |
| Max Limit       | 700      | nA       |
| Min Limit       | -700     | nA       |
| n/cm2           | 0        | 1E+12    |
| LL              | -700.000 | -700.000 |
| Min             | 230.693  | 225.793  |
| Average         | 230.693  | 239.898  |
| Max             | 230.693  | 260.758  |
| UL              | 700.000  | 700.000  |

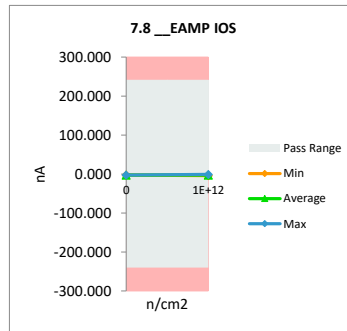


NDD Report  
UC1846-SP

| 7.8_EAMP IOS |          |           |          |         |
|--------------|----------|-----------|----------|---------|
| Test Site    |          |           |          |         |
| Tester       |          |           |          |         |
| Test Number  |          |           |          |         |
| Unit         | nA       | nA        |          |         |
| Max Limit    | 245      | 240       |          |         |
| Min Limit    | -245     | -240      |          |         |
| n/cm2        | Serial # | Post Edit | Pre Edit | Delta   |
| 1E+12        | 28       | 11.550    | -0.922   | -12.472 |
| 1E+12        | 29       | 11.550    | -3.155   | -14.705 |
| 1E+12        | 30       | 11.550    | -4.097   | -15.647 |
| 0            | 119      | -2.769    | -2.791   | -0.022  |
|              | Max      | 11.550    | -0.922   | -0.022  |
|              | Average  | 7.970     | -2.741   | -10.712 |
|              | Min      | -2.769    | -4.097   | -15.647 |
|              | Std Dev  | 7.160     | 1.332    | 7.250   |

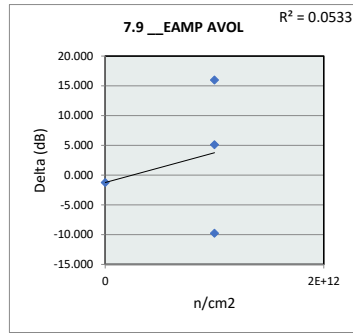


| 7.8_EAMP IOS |          |          |
|--------------|----------|----------|
| Test Site    |          |          |
| Tester       |          |          |
| Test Number  |          |          |
| Max Limit    | 240      | nA       |
| Min Limit    | -240     | nA       |
| n/cm2        | 0        | 1E+12    |
| LL           | -240.000 | -240.000 |
| Min          | -2.791   | -4.097   |
| Average      | -2.791   | -2.725   |
| Max          | -2.791   | -0.922   |
| UL           | 240.000  | 240.000  |

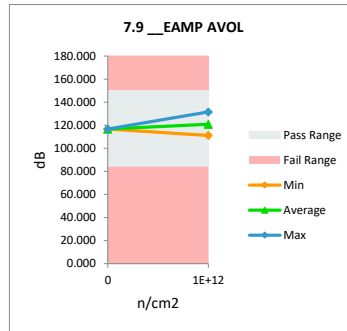


NDD Report  
UC1846-SP

| 7.9_EAMP AVOL |          |           |          |        |
|---------------|----------|-----------|----------|--------|
| Test Site     |          |           |          |        |
| Tester        |          |           |          |        |
| Test Number   |          |           |          |        |
| Unit          | dB       |           | dB       |        |
| Max Limit     | 150      |           | 150      |        |
| Min Limit     | 82       |           | 84       |        |
| n/cm2         | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12         | 28       | 120.881   | 111.107  | -9.774 |
| 1E+12         | 29       | 114.813   | 119.910  | 5.097  |
| 1E+12         | 30       | 115.594   | 131.550  | 15.956 |
| 0             | 119      | 117.955   | 116.710  | -1.245 |
|               | Max      | 120.881   | 131.550  | 15.956 |
|               | Average  | 117.311   | 119.819  | 2.509  |
|               | Min      | 114.813   | 111.107  | -9.774 |
|               | Std Dev  | 2.729     | 8.625    | 10.839 |

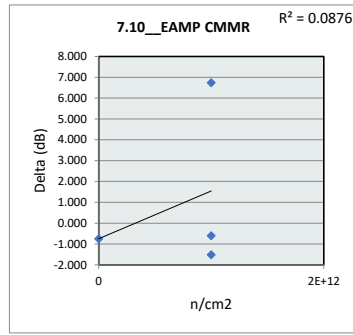


| 7.9_EAMP AVOL |         |         |
|---------------|---------|---------|
| Test Site     |         |         |
| Tester        |         |         |
| Test Number   |         |         |
| Max Limit     | 150     | dB      |
| Min Limit     | 84      | dB      |
| n/cm2         | 0       | 1E+12   |
| LL            | 84.000  | 84.000  |
| Min           | 116.710 | 111.107 |
| Average       | 116.710 | 120.856 |
| Max           | 116.710 | 131.550 |
| UL            | 150.000 | 150.000 |

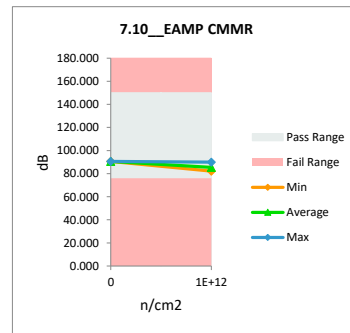


NDD Report  
UC1846-SP

| 7.10_EAMP CMMR |          |           |          |        |
|----------------|----------|-----------|----------|--------|
| Test Site      |          |           |          |        |
| Tester         |          |           |          |        |
| Test Number    |          |           |          |        |
| Unit           |          | dB        | dB       |        |
| Max Limit      |          | 150       | 150      |        |
| Min Limit      |          | 76        | 76       |        |
| n/cm2          | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12          | 28       | 83.693    | 82.180   | -1.513 |
| 1E+12          | 29       | 83.206    | 89.952   | 6.746  |
| 1E+12          | 30       | 84.710    | 84.109   | -0.601 |
| 0              | 119      | 91.330    | 90.583   | -0.747 |
|                | Max      | 91.330    | 90.583   | 6.746  |
|                | Average  | 85.735    | 86.706   | 0.971  |
|                | Min      | 83.206    | 82.180   | -1.513 |
|                | Std Dev  | 3.782     | 4.195    | 3.871  |

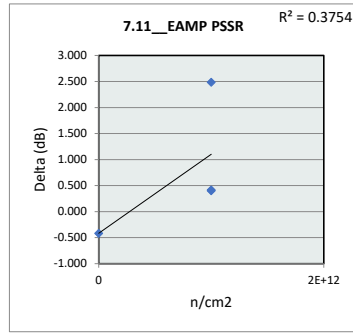


| 7.10_EAMP CMMR |         |         |
|----------------|---------|---------|
| Test Site      |         |         |
| Tester         |         |         |
| Test Number    |         |         |
| Max Limit      | 150     | dB      |
| Min Limit      | 76      | dB      |
| n/cm2          | 0       | 1E+12   |
| LL             | 76.000  | 76.000  |
| Min            | 90.583  | 82.180  |
| Average        | 90.583  | 85.414  |
| Max            | 90.583  | 89.952  |
| UL             | 150.000 | 150.000 |

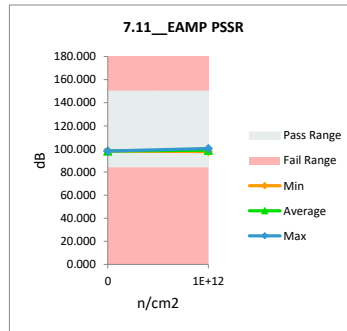


NDD Report  
UC1846-SP

| 7.11_EAMP PSSR |          |           |          |        |
|----------------|----------|-----------|----------|--------|
| Test Site      |          |           |          |        |
| Tester         |          |           |          |        |
| Test Number    |          |           |          |        |
| Unit           |          | dB        |          | dB     |
| Max Limit      |          | 150       |          | 150    |
| Min Limit      |          | 82        |          | 84     |
| n/cm2          | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12          | 28       | 97.862    | 100.348  | 2.486  |
| 1E+12          | 29       | 98.256    | 98.659   | 0.403  |
| 1E+12          | 30       | 97.281    | 97.697   | 0.416  |
| 0              | 119      | 98.604    | 98.188   | -0.416 |
|                | Max      | 98.604    | 100.348  | 2.486  |
|                | Average  | 98.001    | 98.723   | 0.722  |
|                | Min      | 97.281    | 97.697   | -0.416 |
|                | Std Dev  | 0.568     | 1.152    | 1.239  |

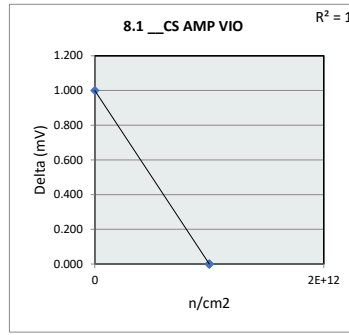


| 7.11_EAMP PSSR |         |         |
|----------------|---------|---------|
| Test Site      |         |         |
| Tester         |         |         |
| Test Number    |         |         |
| Max Limit      | 150     | dB      |
| Min Limit      | 84      | dB      |
| n/cm2          | 0       | 1E+12   |
| LL             | 84.000  | 84.000  |
| Min            | 98.188  | 97.697  |
| Average        | 98.188  | 98.901  |
| Max            | 98.188  | 100.348 |
| UL             | 150.000 | 150.000 |

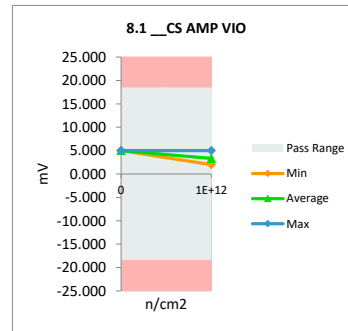


# NDD Report UC1846-SP

| 8.1 __ CS AMP VIO |          |           |          |       |
|-------------------|----------|-----------|----------|-------|
| Test Site         |          |           |          |       |
| Tester            |          |           |          |       |
| Test Number       |          |           |          |       |
| Unit              |          | mV        | mV       |       |
| Max Limit         |          | 23.4      | 18.4     |       |
| Min Limit         |          | -23.4     | -18.4    |       |
| n/cm2             | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12             | 28       | 2.000     | 2.000    | 0.000 |
| 1E+12             | 29       | 3.000     | 3.000    | 0.000 |
| 1E+12             | 30       | 5.000     | 5.000    | 0.000 |
| 0                 | 119      | 4.000     | 5.000    | 1.000 |
|                   | Max      | 5.000     | 5.000    | 1.000 |
|                   | Average  | 3.500     | 3.750    | 0.250 |
|                   | Min      | 2.000     | 2.000    | 0.000 |
|                   | Std Dev  | 1.291     | 1.500    | 0.500 |

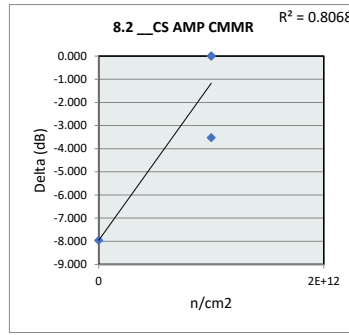


| 8.1 __ CS AMP VIO |         |         |
|-------------------|---------|---------|
| Test Site         |         |         |
| Tester            |         |         |
| Test Number       |         |         |
| Max Limit         | 18.4    | mV      |
| Min Limit         | -18.4   | mV      |
| n/cm2             | 0       | 1E+12   |
| LL                | -18.400 | -18.400 |
| Min               | 5.000   | 2.000   |
| Average           | 5.000   | 3.333   |
| Max               | 5.000   | 5.000   |
| UL                | 18.400  | 18.400  |

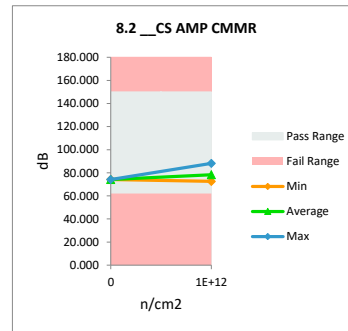


NDD Report  
UC1846-SP

| 8.2 __CS AMP CMMR |          |           |          |        |
|-------------------|----------|-----------|----------|--------|
| Test Site         |          |           |          |        |
| Tester            |          |           |          |        |
| Test Number       |          |           |          |        |
| Unit              |          | dB        | dB       |        |
| Max Limit         |          | 150       | 150      |        |
| Min Limit         |          | 62        | 62       |        |
| n/cm2             | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12             | 28       | 76.090    | 72.568   | -3.522 |
| 1E+12             | 29       | 88.131    | 88.131   | 0.000  |
| 1E+12             | 30       | 74.151    | 74.151   | 0.000  |
| 0                 | 119      | 82.110    | 74.151   | -7.959 |
|                   | Max      | 88.131    | 88.131   | 0.000  |
|                   | Average  | 80.120    | 77.250   | -2.870 |
|                   | Min      | 74.151    | 72.568   | -7.959 |
|                   | Std Dev  | 6.325     | 7.292    | 3.777  |

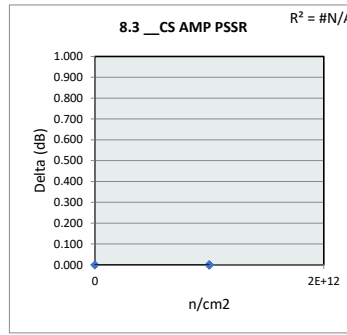


| 8.2 __CS AMP CMMR |         |         |
|-------------------|---------|---------|
| Test Site         |         |         |
| Tester            |         |         |
| Test Number       |         |         |
| Max Limit         | 150     | dB      |
| Min Limit         | 62      | dB      |
| n/cm2             | 0       | 1E+12   |
| LL                | 62.000  | 62.000  |
| Min               | 74.151  | 72.568  |
| Average           | 74.151  | 78.283  |
| Max               | 74.151  | 88.131  |
| UL                | 150.000 | 150.000 |

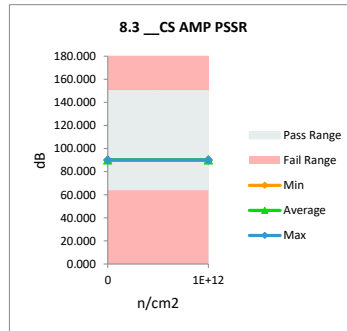


NDD Report  
UC1846-SP

| 8.3_CS AMP PSSR |          |           |          |       |
|-----------------|----------|-----------|----------|-------|
| Test Site       |          |           |          |       |
| Tester          |          |           |          |       |
| Test Number     |          |           |          |       |
| Unit            | dB       |           | dB       |       |
| Max Limit       | 150      |           | 150      |       |
| Min Limit       | 63       |           | 64       |       |
| n/cm2           | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12           | 28       | 90.103    | 90.103   | 0.000 |
| 1E+12           | 29       | 90.103    | 90.103   | 0.000 |
| 1E+12           | 30       | 90.103    | 90.103   | 0.000 |
| 0               | 119      | 90.103    | 90.103   | 0.000 |
|                 | Max      | 90.103    | 90.103   | 0.000 |
|                 | Average  | 90.103    | 90.103   | 0.000 |
|                 | Min      | 90.103    | 90.103   | 0.000 |
|                 | Std Dev  | 0.000     | 0.000    | 0.000 |



| 8.3_CS AMP PSSR |         |         |
|-----------------|---------|---------|
| Test Site       |         |         |
| Tester          |         |         |
| Test Number     |         |         |
| Max Limit       | 150     | dB      |
| Min Limit       | 64      | dB      |
| n/cm2           | 0       | 1E+12   |
| LL              | 64.000  | 64.000  |
| Min             | 90.103  | 90.103  |
| Average         | 90.103  | 90.103  |
| Max             | 90.103  | 90.103  |
| UL              | 150.000 | 150.000 |

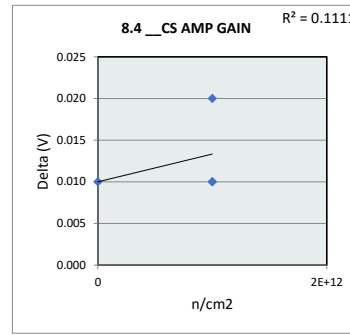




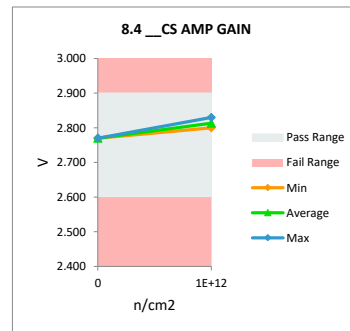
NDD Report  
UC1846-SP

| 8.4_CS AMP GAIN |       |     |
|-----------------|-------|-----|
| Test Site       |       |     |
| Tester          |       |     |
| Test Number     |       |     |
| Unit            | V     | V   |
| Max Limit       | 2.985 | 2.9 |
| Min Limit       | 2.515 | 2.6 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta |
|-------|----------|-----------|----------|-------|
| 1E+12 | 28       | 2.790     | 2.800    | 0.010 |
| 1E+12 | 29       | 2.820     | 2.830    | 0.010 |
| 1E+12 | 30       | 2.790     | 2.810    | 0.020 |
| 0     | 119      | 2.760     | 2.770    | 0.010 |
|       | Max      | 2.820     | 2.830    | 0.020 |
|       | Average  | 2.790     | 2.802    | 0.012 |
|       | Min      | 2.760     | 2.770    | 0.010 |
|       | Std Dev  | 0.024     | 0.025    | 0.005 |

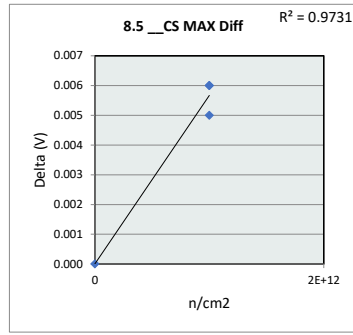


| 8.4_CS AMP GAIN |       |       |
|-----------------|-------|-------|
| Test Site       |       |       |
| Tester          |       |       |
| Test Number     |       |       |
| Max Limit       | 2.9   | V     |
| Min Limit       | 2.6   | V     |
| n/cm2           | 0     | 1E+12 |
| LL              | 2.600 | 2.600 |
| Min             | 2.770 | 2.800 |
| Average         | 2.770 | 2.813 |
| Max             | 2.770 | 2.830 |
| UL              | 2.900 | 2.900 |

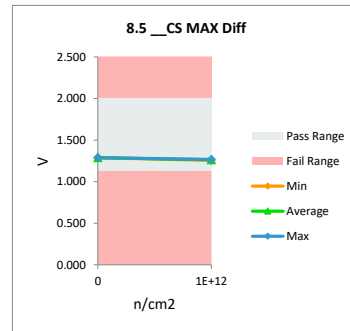


NDD Report  
UC1846-SP

| 8.5 __CS MAX Diff |          |           |          |       |
|-------------------|----------|-----------|----------|-------|
| Test Site         |          |           |          |       |
| Tester            |          |           |          |       |
| Test Number       |          |           |          |       |
| Unit              | V        |           | V        |       |
| Max Limit         | 2        |           | 2        |       |
| Min Limit         | 1.12     |           | 1.13     |       |
| n/cm2             | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12             | 28       | 1.261     | 1.267    | 0.006 |
| 1E+12             | 29       | 1.251     | 1.256    | 0.005 |
| 1E+12             | 30       | 1.261     | 1.267    | 0.006 |
| 0                 | 119      | 1.288     | 1.288    | 0.000 |
|                   | Max      | 1.288     | 1.288    | 0.006 |
|                   | Average  | 1.265     | 1.269    | 0.004 |
|                   | Min      | 1.251     | 1.256    | 0.000 |
|                   | Std Dev  | 0.016     | 0.013    | 0.003 |

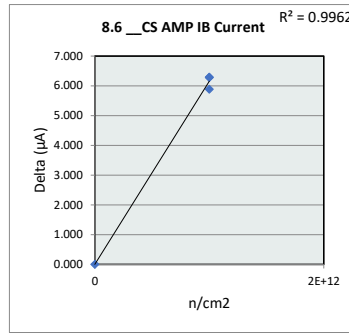


| 8.5 __CS MAX Diff |       |       |
|-------------------|-------|-------|
| Test Site         |       |       |
| Tester            |       |       |
| Test Number       |       |       |
| Max Limit         | 2     | V     |
| Min Limit         | 1.13  | V     |
| n/cm2             | 0     | 1E+12 |
| LL                | 1.130 | 1.130 |
| Min               | 1.288 | 1.256 |
| Average           | 1.288 | 1.263 |
| Max               | 1.288 | 1.267 |
| UL                | 2.000 | 2.000 |

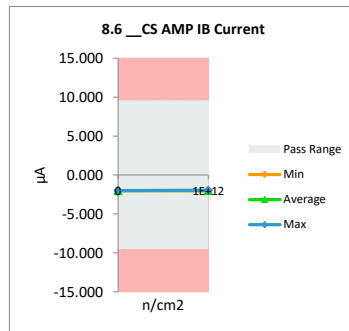


NDD Report  
UC1846-SP

| 8.6_CS AMP IB Current |          |           |          |       |
|-----------------------|----------|-----------|----------|-------|
| Test Site             |          |           |          |       |
| Tester                |          |           |          |       |
| Test Number           |          |           |          |       |
| Unit                  |          | µA        | µA       |       |
| Max Limit             |          | 9.7       | 9.5      |       |
| Min Limit             |          | -9.7      | -9.5     |       |
| n/cm2                 | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12                 | 28       | -7.895    | -2.009   | 5.886 |
| 1E+12                 | 29       | -8.243    | -1.958   | 6.285 |
| 1E+12                 | 30       | -8.322    | -2.024   | 6.298 |
| 0                     | 119      | -2.004    | -2.002   | 0.002 |
|                       | Max      | -2.004    | -1.958   | 6.298 |
|                       | Average  | -6.616    | -1.998   | 4.618 |
|                       | Min      | -8.322    | -2.024   | 0.002 |
|                       | Std Dev  | 3.080     | 0.028    | 3.083 |

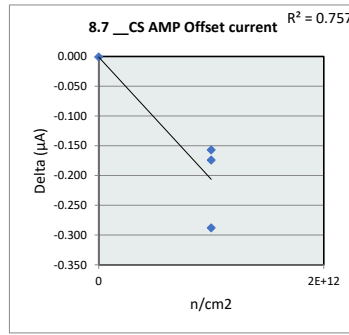


| 8.6_CS AMP IB Current |        |        |
|-----------------------|--------|--------|
| Test Site             |        |        |
| Tester                |        |        |
| Test Number           |        |        |
| Max Limit             | 9.5    | µA     |
| Min Limit             | -9.5   | µA     |
| n/cm2                 | 0      | 1E+12  |
| LL                    | -9.500 | -9.500 |
| Min                   | -2.002 | -2.024 |
| Average               | -2.002 | -1.997 |
| Max                   | -2.002 | -1.958 |
| UL                    | 9.500  | 9.500  |

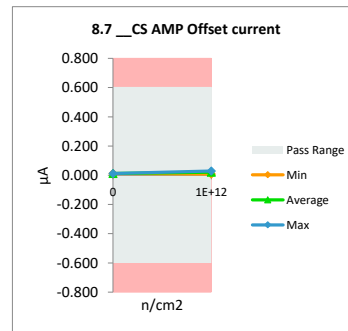


NDD Report  
UC1846-SP

| 8.7 CS AMP Offset current |          |           |          |        |
|---------------------------|----------|-----------|----------|--------|
| Test Site                 |          |           |          |        |
| Tester                    |          |           |          |        |
| Test Number               |          |           |          |        |
| Unit                      |          | µA        | µA       |        |
| Max Limit                 |          | 0.7       | 0.6      |        |
| Min Limit                 |          | -0.7      | -0.6     |        |
| n/cm2                     | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                     | 28       | 0.317     | 0.029    | -0.288 |
| 1E+12                     | 29       | 0.183     | 0.026    | -0.157 |
| 1E+12                     | 30       | 0.182     | 0.008    | -0.174 |
| 0                         | 119      | 0.013     | 0.012    | -0.001 |
|                           | Max      | 0.317     | 0.029    | -0.001 |
|                           | Average  | 0.174     | 0.019    | -0.155 |
|                           | Min      | 0.013     | 0.008    | -0.288 |
|                           | Std Dev  | 0.125     | 0.010    | 0.118  |

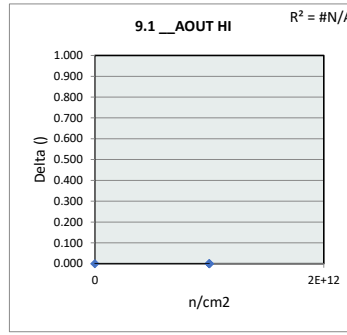


| 8.7 CS AMP Offset current |        |        |
|---------------------------|--------|--------|
| Test Site                 |        |        |
| Tester                    |        |        |
| Test Number               |        |        |
| Max Limit                 | 0.6    | µA     |
| Min Limit                 | -0.6   | µA     |
| n/cm2                     | 0      | 1E+12  |
| LL                        | -0.600 | -0.600 |
| Min                       | 0.012  | 0.008  |
| Average                   | 0.012  | 0.021  |
| Max                       | 0.012  | 0.029  |
| UL                        | 0.600  | 0.600  |

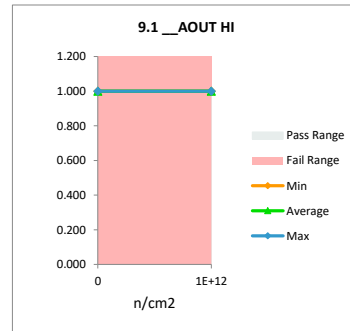


NDD Report  
UC1846-SP

| 9.1 _AOUT HI |          |           |          |       |
|--------------|----------|-----------|----------|-------|
| Test Site    |          |           |          |       |
| Tester       |          |           |          |       |
| Test Number  |          |           |          |       |
| Unit         |          |           |          |       |
| Max Limit    | 1        |           | 1        |       |
| Min Limit    | 1        |           | 1        |       |
| n/cm2        | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12        | 28       | 1.000     | 1.000    | 0.000 |
| 1E+12        | 29       | 1.000     | 1.000    | 0.000 |
| 1E+12        | 30       | 1.000     | 1.000    | 0.000 |
| 0            | 119      | 1.000     | 1.000    | 0.000 |
|              | Max      | 1.000     | 1.000    | 0.000 |
|              | Average  | 1.000     | 1.000    | 0.000 |
|              | Min      | 1.000     | 1.000    | 0.000 |
|              | Std Dev  | 0.000     | 0.000    | 0.000 |

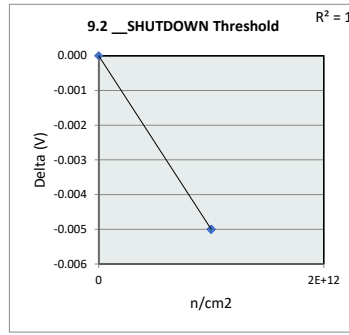


| 9.1 _AOUT HI |       |       |
|--------------|-------|-------|
| Test Site    |       |       |
| Tester       |       |       |
| Test Number  |       |       |
| Max Limit    | 1     |       |
| Min Limit    | 1     |       |
| n/cm2        | 0     | 1E+12 |
| LL           | 1.000 | 1.000 |
| Min          | 1.000 | 1.000 |
| Average      | 1.000 | 1.000 |
| Max          | 1.000 | 1.000 |
| UL           | 1.000 | 1.000 |

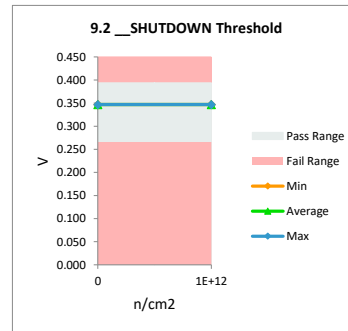


NDD Report  
UC1846-SP

| 9.2 _SHUTDOWN Threshold |          |           |          |        |
|-------------------------|----------|-----------|----------|--------|
| Test Site               |          |           |          |        |
| Tester                  |          |           |          |        |
| Test Number             |          |           |          |        |
| Unit                    | V        | V         |          |        |
| Max Limit               | 0.396    | 0.394     |          |        |
| Min Limit               | 0.254    | 0.266     |          |        |
| n/cm2                   | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                   | 28       | 0.352     | 0.347    | -0.005 |
| 1E+12                   | 29       | 0.352     | 0.347    | -0.005 |
| 1E+12                   | 30       | 0.352     | 0.347    | -0.005 |
| 0                       | 119      | 0.347     | 0.347    | 0.000  |
|                         | Max      | 0.352     | 0.347    | 0.000  |
|                         | Average  | 0.351     | 0.347    | -0.004 |
|                         | Min      | 0.347     | 0.347    | -0.005 |
|                         | Std Dev  | 0.002     | 0.000    | 0.002  |

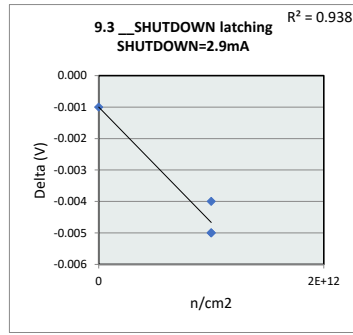


| 9.2 _SHUTDOWN Threshold |       |       |
|-------------------------|-------|-------|
| Test Site               |       |       |
| Tester                  |       |       |
| Test Number             |       |       |
| Max Limit               | 0.394 | V     |
| Min Limit               | 0.266 | V     |
| n/cm2                   | 0     | 1E+12 |
| LL                      | 0.266 | 0.266 |
| Min                     | 0.347 | 0.347 |
| Average                 | 0.347 | 0.347 |
| Max                     | 0.347 | 0.347 |
| UL                      | 0.394 | 0.394 |

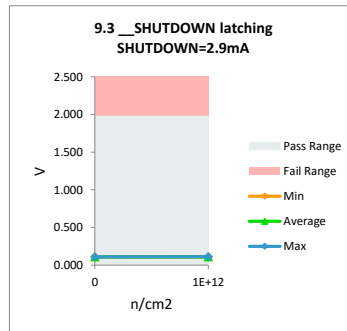


NDD Report  
UC1846-SP

| 9.3 SHUTDOWN latching SHUT |          |           |          |        |
|----------------------------|----------|-----------|----------|--------|
| Test Site                  |          |           |          |        |
| Tester                     |          |           |          |        |
| Test Number                |          |           |          |        |
| Unit                       | V        | V         |          |        |
| Max Limit                  | 1.995    | 1.975     |          |        |
| Min Limit                  | 0        | 0         |          |        |
| n/cm2                      | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                      | 28       | 0.113     | 0.109    | -0.004 |
| 1E+12                      | 29       | 0.114     | 0.109    | -0.005 |
| 1E+12                      | 30       | 0.117     | 0.112    | -0.005 |
| 0                          | 119      | 0.110     | 0.109    | -0.001 |
|                            | Max      | 0.117     | 0.112    | -0.001 |
|                            | Average  | 0.113     | 0.110    | -0.004 |
|                            | Min      | 0.110     | 0.109    | -0.005 |
|                            | Std Dev  | 0.003     | 0.002    | 0.002  |

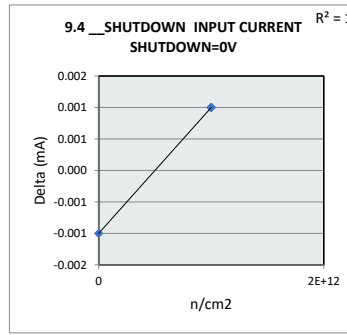


| 9.3 SHUTDOWN latching SHU |       |       |
|---------------------------|-------|-------|
| Test Site                 |       |       |
| Tester                    |       |       |
| Test Number               |       |       |
| Max Limit                 | 1.975 | V     |
| Min Limit                 | 0     | V     |
| n/cm2                     | 0     | 1E+12 |
| LL                        | 0.000 | 0.000 |
| Min                       | 0.109 | 0.109 |
| Average                   | 0.109 | 0.110 |
| Max                       | 0.109 | 0.112 |
| UL                        | 1.975 | 1.975 |

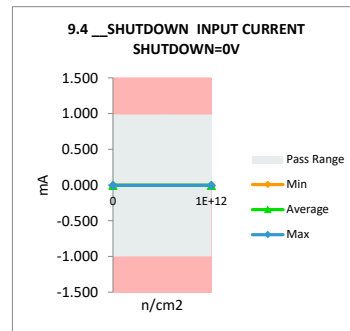


NDD Report  
UC1846-SP

| 9.4 SHUTDOWN INPUT CURRE |          |           |          |        |
|--------------------------|----------|-----------|----------|--------|
| Test Site                |          |           |          |        |
| Tester                   |          |           |          |        |
| Test Number              |          |           |          |        |
| Unit                     |          | mA        | mA       |        |
| Max Limit                |          | 0.99      | 0.98     |        |
| Min Limit                |          | -1        | -1       |        |
| n/cm2                    | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                    | 28       | -0.005    | -0.004   | 0.001  |
| 1E+12                    | 29       | -0.005    | -0.004   | 0.001  |
| 1E+12                    | 30       | -0.005    | -0.004   | 0.001  |
| 0                        | 119      | -0.003    | -0.004   | -0.001 |
|                          | Max      | -0.003    | -0.004   | 0.001  |
|                          | Average  | -0.004    | -0.004   | 0.000  |
|                          | Min      | -0.005    | -0.004   | -0.001 |
|                          | Std Dev  | 0.001     | 0.000    | 0.001  |



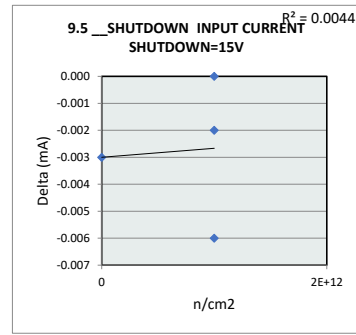
| 9.4 SHUTDOWN INPUT CUR |        |        |
|------------------------|--------|--------|
| Test Site              |        |        |
| Tester                 |        |        |
| Test Number            |        |        |
| Max Limit              | 0.98   | mA     |
| Min Limit              | -1     | mA     |
| n/cm2                  | 0      | 1E+12  |
| LL                     | -1.000 | -1.000 |
| Min                    | -0.004 | -0.004 |
| Average                | -0.004 | -0.004 |
| Max                    | -0.004 | -0.004 |
| UL                     | 0.980  | 0.980  |



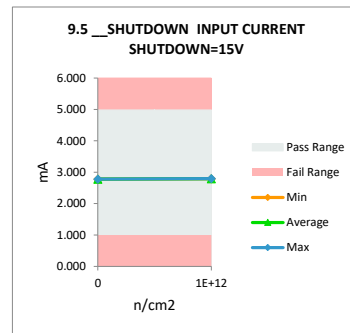


NDD Report  
UC1846-SP

| 9.5_SHUTDOWN INPUT CURRE |          |           |          |        |
|--------------------------|----------|-----------|----------|--------|
| Test Site                |          |           |          |        |
| Tester                   |          |           |          |        |
| Test Number              |          |           |          |        |
| Unit                     |          | mA        | mA       |        |
| Max Limit                |          | 4.99      | 4.98     |        |
| Min Limit                |          | 1         | 1        |        |
| n/cm2                    | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                    | 28       | 2.801     | 2.795    | -0.006 |
| 1E+12                    | 29       | 2.795     | 2.793    | -0.002 |
| 1E+12                    | 30       | 2.796     | 2.796    | 0.000  |
| 0                        | 119      | 2.784     | 2.781    | -0.003 |
|                          | Max      | 2.801     | 2.796    | 0.000  |
|                          | Average  | 2.794     | 2.791    | -0.003 |
|                          | Min      | 2.784     | 2.781    | -0.006 |
|                          | Std Dev  | 0.007     | 0.007    | 0.003  |

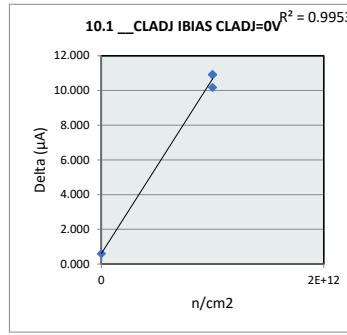


| 9.5_SHUTDOWN INPUT CUR |       |       |
|------------------------|-------|-------|
| Test Site              |       |       |
| Tester                 |       |       |
| Test Number            |       |       |
| Max Limit              | 4.98  | mA    |
| Min Limit              | 1     | mA    |
| n/cm2                  | 0     | 1E+12 |
| LL                     | 1.000 | 1.000 |
| Min                    | 2.781 | 2.793 |
| Average                | 2.781 | 2.795 |
| Max                    | 2.781 | 2.796 |
| UL                     | 4.980 | 4.980 |

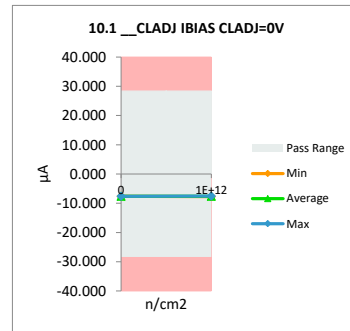


NDD Report  
UC1846-SP

| 10.1 __CLADJ IBIAS CLADJ=0V |          |           |          |        |
|-----------------------------|----------|-----------|----------|--------|
| Test Site                   |          |           |          |        |
| Tester                      |          |           |          |        |
| Test Number                 |          |           |          |        |
| Unit                        |          | µA        | µA       |        |
| Max Limit                   |          | 29.4      | 28.4     |        |
| Min Limit                   |          | -29.4     | -28.4    |        |
| n/cm2                       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                       | 28       | -17.773   | -7.590   | 10.183 |
| 1E+12                       | 29       | -18.476   | -7.540   | 10.936 |
| 1E+12                       | 30       | -18.623   | -7.728   | 10.895 |
| 0                           | 119      | -8.212    | -7.618   | 0.594  |
|                             | Max      | -8.212    | -7.540   | 10.936 |
|                             | Average  | -15.771   | -7.619   | 8.152  |
|                             | Min      | -18.623   | -7.728   | 0.594  |
|                             | Std Dev  | 5.053     | 0.080    | 5.051  |

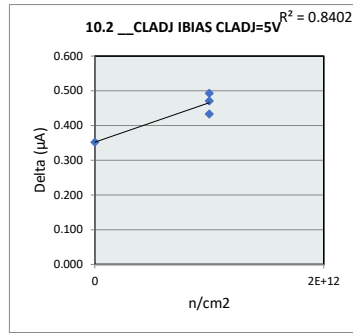


| 10.1 __CLADJ IBIAS CLADJ=0V |         |         |
|-----------------------------|---------|---------|
| Test Site                   |         |         |
| Tester                      |         |         |
| Test Number                 |         |         |
| Max Limit                   | 28.4    | µA      |
| Min Limit                   | -28.4   | µA      |
| n/cm2                       | 0       | 1E+12   |
| LL                          | -28.400 | -28.400 |
| Min                         | -7.618  | -7.728  |
| Average                     | -7.618  | -7.619  |
| Max                         | -7.618  | -7.540  |
| UL                          | 28.400  | 28.400  |

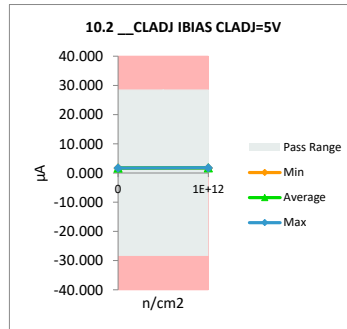


NDD Report  
UC1846-SP

| 10.2 __CLADJ IBIAS CLADJ=5V |          |           |          |       |
|-----------------------------|----------|-----------|----------|-------|
| Test Site                   |          |           |          |       |
| Tester                      |          |           |          |       |
| Test Number                 |          |           |          |       |
| Unit                        |          | µA        | µA       |       |
| Max Limit                   |          | 29.4      | 28.4     |       |
| Min Limit                   |          | -29.4     | -28.4    |       |
| n/cm2                       | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12                       | 28       | 1.296     | 1.767    | 0.471 |
| 1E+12                       | 29       | 1.249     | 1.742    | 0.493 |
| 1E+12                       | 30       | 1.368     | 1.801    | 0.433 |
| 0                           | 119      | 1.343     | 1.695    | 0.352 |
|                             | Max      | 1.368     | 1.801    | 0.493 |
|                             | Average  | 1.314     | 1.751    | 0.437 |
|                             | Min      | 1.249     | 1.695    | 0.352 |
|                             | Std Dev  | 0.053     | 0.045    | 0.062 |



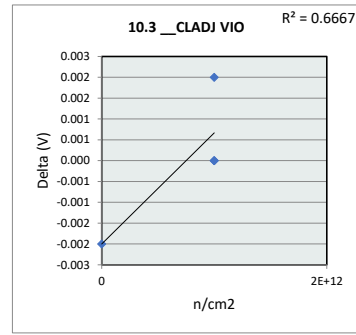
| 10.2 __CLADJ IBIAS CLADJ=5V |         |         |
|-----------------------------|---------|---------|
| Test Site                   |         |         |
| Tester                      |         |         |
| Test Number                 |         |         |
| Max Limit                   | 28.4    | µA      |
| Min Limit                   | -28.4   | µA      |
| n/cm2                       | 0       | 1E+12   |
| LL                          | -28.400 | -28.400 |
| Min                         | 1.695   | 1.742   |
| Average                     | 1.695   | 1.770   |
| Max                         | 1.695   | 1.801   |
| UL                          | 28.400  | 28.400  |



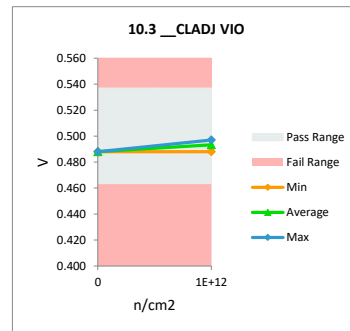
NDD Report  
UC1846-SP

| 10.3 _CLADJ VIO |       |       |
|-----------------|-------|-------|
| Test Site       |       |       |
| Tester          |       |       |
| Test Number     |       |       |
| Unit            | V     | V     |
| Max Limit       | 0.547 | 0.537 |
| Min Limit       | 0.453 | 0.463 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 0.495     | 0.497    | 0.002  |
| 1E+12 | 29       | 0.495     | 0.495    | 0.000  |
| 1E+12 | 30       | 0.488     | 0.488    | 0.000  |
| 0     | 119      | 0.490     | 0.488    | -0.002 |
|       | Max      | 0.495     | 0.497    | 0.002  |
|       | Average  | 0.492     | 0.492    | 0.000  |
|       | Min      | 0.488     | 0.488    | -0.002 |
|       | Std Dev  | 0.004     | 0.005    | 0.002  |

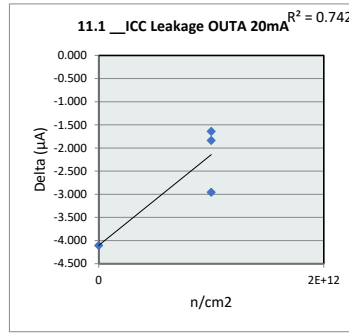


| 10.3 _CLADJ VIO |       |       |
|-----------------|-------|-------|
| Test Site       |       |       |
| Tester          |       |       |
| Test Number     |       |       |
| Max Limit       | 0.537 | V     |
| Min Limit       | 0.463 | V     |
| n/cm2           | 0     | 1E+12 |
| LL              | 0.463 | 0.463 |
| Min             | 0.488 | 0.488 |
| Average         | 0.488 | 0.493 |
| Max             | 0.488 | 0.497 |
| UL              | 0.537 | 0.537 |

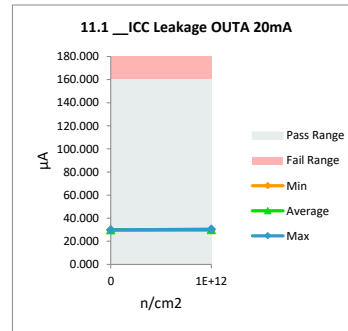


NDD Report  
UC1846-SP

| 11.1 __ ICC Leakage OUTA 20mA |          |           |          |        |
|-------------------------------|----------|-----------|----------|--------|
| Test Site                     |          |           |          |        |
| Tester                        |          |           |          |        |
| Test Number                   |          |           |          |        |
| Unit                          |          | µA        | µA       |        |
| Max Limit                     |          | 170       | 160      |        |
| Min Limit                     |          | 0         | 0        |        |
| n/cm2                         | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                         | 28       | 32.142    | 30.500   | -1.642 |
| 1E+12                         | 29       | 31.715    | 29.878   | -1.837 |
| 1E+12                         | 30       | 32.668    | 29.714   | -2.954 |
| 0                             | 119      | 33.983    | 29.878   | -4.105 |
|                               | Max      | 33.983    | 30.500   | -1.642 |
|                               | Average  | 32.627    | 29.993   | -2.634 |
|                               | Min      | 31.715    | 29.714   | -4.105 |
|                               | Std Dev  | 0.984     | 0.347    | 1.138  |

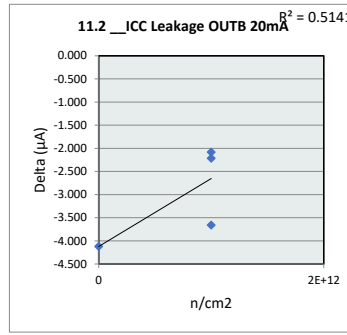


| 11.1 __ ICC Leakage OUTA 20m |         |         |
|------------------------------|---------|---------|
| Test Site                    |         |         |
| Tester                       |         |         |
| Test Number                  |         |         |
| Max Limit                    | 160     | µA      |
| Min Limit                    | 0       | µA      |
| n/cm2                        | 0       | 1E+12   |
| LL                           | 0.000   | 0.000   |
| Min                          | 29.878  | 29.714  |
| Average                      | 29.878  | 30.031  |
| Max                          | 29.878  | 30.500  |
| UL                           | 160.000 | 160.000 |

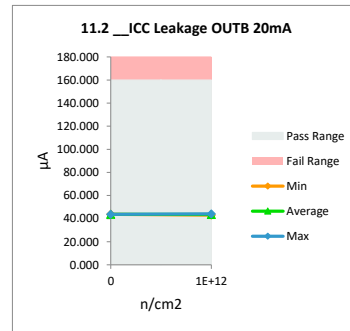


NDD Report  
UC1846-SP

| 11.2 __ ICC Leakage OUTB 20mA |          |           |          |        |
|-------------------------------|----------|-----------|----------|--------|
| Test Site                     |          |           |          |        |
| Tester                        |          |           |          |        |
| Test Number                   |          |           |          |        |
| Unit                          |          | µA        | µA       |        |
| Max Limit                     |          | 170       | 160      |        |
| Min Limit                     |          | 0         | 0        |        |
| n/cm2                         | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                         | 28       | 46.343    | 44.127   | -2.216 |
| 1E+12                         | 29       | 45.587    | 43.505   | -2.082 |
| 1E+12                         | 30       | 46.705    | 43.046   | -3.659 |
| 0                             | 119      | 47.822    | 43.701   | -4.121 |
|                               | Max      | 47.822    | 44.127   | -2.082 |
|                               | Average  | 46.614    | 43.595   | -3.019 |
|                               | Min      | 45.587    | 43.046   | -4.121 |
|                               | Std Dev  | 0.930     | 0.449    | 1.024  |



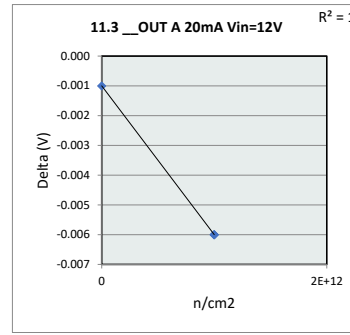
| 11.2 __ ICC Leakage OUTB 20m |         |         |
|------------------------------|---------|---------|
| Test Site                    |         |         |
| Tester                       |         |         |
| Test Number                  |         |         |
| Max Limit                    | 160     | µA      |
| Min Limit                    | 0       | µA      |
| n/cm2                        | 0       | 1E+12   |
| LL                           | 0.000   | 0.000   |
| Min                          | 43.701  | 43.046  |
| Average                      | 43.701  | 43.559  |
| Max                          | 43.701  | 44.127  |
| UL                           | 160.000 | 160.000 |



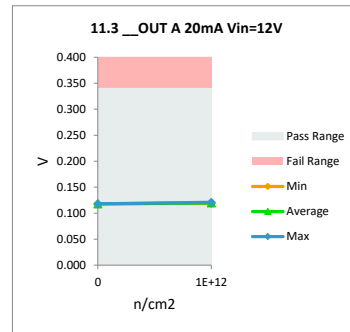
# NDD Report UC1846-SP

| 11.3 __OUT A 20mA Vin=12V |       |      |
|---------------------------|-------|------|
| Test Site                 |       |      |
| Tester                    |       |      |
| Test Number               |       |      |
| Unit                      | V     | V    |
| Max Limit                 | 0.392 | 0.34 |
| Min Limit                 | 0     | 0    |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 0.125     | 0.119    | -0.006 |
| 1E+12 | 29       | 0.125     | 0.119    | -0.006 |
| 1E+12 | 30       | 0.127     | 0.121    | -0.006 |
| 0     | 119      | 0.119     | 0.118    | -0.001 |
|       | Max      | 0.127     | 0.121    | -0.001 |
|       | Average  | 0.124     | 0.119    | -0.005 |
|       | Min      | 0.119     | 0.118    | -0.006 |
|       | Std Dev  | 0.003     | 0.001    | 0.002  |

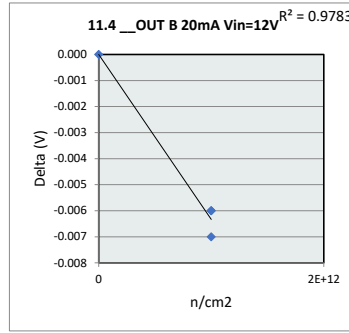


| 11.3 __OUT A 20mA Vin=12V |       |       |
|---------------------------|-------|-------|
| Test Site                 |       |       |
| Tester                    |       |       |
| Test Number               |       |       |
| Max Limit                 | 0.34  | V     |
| Min Limit                 | 0     | V     |
| n/cm2                     | 0     | 1E+12 |
| LL                        | 0.000 | 0.000 |
| Min                       | 0.118 | 0.119 |
| Average                   | 0.118 | 0.120 |
| Max                       | 0.118 | 0.121 |
| UL                        | 0.340 | 0.340 |

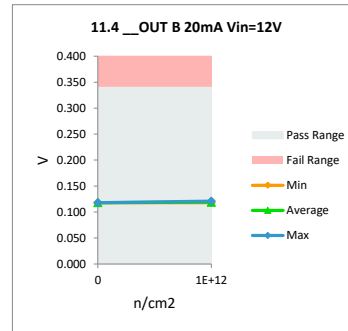


NDD Report  
UC1846-SP

| 11.4 __OUT B 20mA Vin=12V |          |           |          |        |
|---------------------------|----------|-----------|----------|--------|
| Test Site                 |          |           |          |        |
| Tester                    |          |           |          |        |
| Test Number               |          |           |          |        |
| Unit                      | V        | V         |          |        |
| Max Limit                 | 0.392    | 0.34      |          |        |
| Min Limit                 | 0        | 0         |          |        |
| n/cm2                     | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                     | 28       | 0.124     | 0.118    | -0.006 |
| 1E+12                     | 29       | 0.125     | 0.118    | -0.007 |
| 1E+12                     | 30       | 0.127     | 0.121    | -0.006 |
| 0                         | 119      | 0.118     | 0.118    | 0.000  |
|                           | Max      | 0.127     | 0.121    | 0.000  |
|                           | Average  | 0.124     | 0.119    | -0.005 |
|                           | Min      | 0.118     | 0.118    | -0.007 |
|                           | Std Dev  | 0.004     | 0.001    | 0.003  |



| 11.4 __OUT B 20mA Vin=12V |       |       |
|---------------------------|-------|-------|
| Test Site                 |       |       |
| Tester                    |       |       |
| Test Number               |       |       |
| Max Limit                 | 0.34  | V     |
| Min Limit                 | 0     | V     |
| n/cm2                     | 0     | 1E+12 |
| LL                        | 0.000 | 0.000 |
| Min                       | 0.118 | 0.118 |
| Average                   | 0.118 | 0.119 |
| Max                       | 0.118 | 0.121 |
| UL                        | 0.340 | 0.340 |

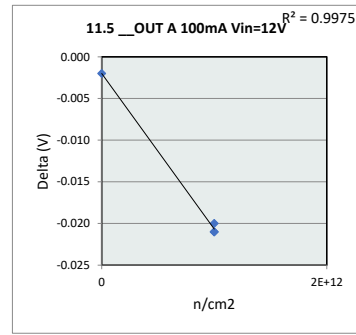




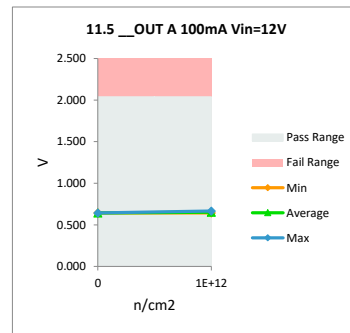
# NDD Report UC1846-SP

| 11.5 __OUT A 100mA Vin=12V |      |      |
|----------------------------|------|------|
| Test Site                  |      |      |
| Tester                     |      |      |
| Test Number                |      |      |
| Unit                       | V    | V    |
| Max Limit                  | 2.09 | 2.04 |
| Min Limit                  | 0    | 0    |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 0.663     | 0.643    | -0.020 |
| 1E+12 | 29       | 0.666     | 0.645    | -0.021 |
| 1E+12 | 30       | 0.687     | 0.666    | -0.021 |
| 0     | 119      | 0.645     | 0.643    | -0.002 |
|       | Max      | 0.687     | 0.666    | -0.002 |
|       | Average  | 0.665     | 0.649    | -0.016 |
|       | Min      | 0.645     | 0.643    | -0.021 |
|       | Std Dev  | 0.017     | 0.011    | 0.009  |

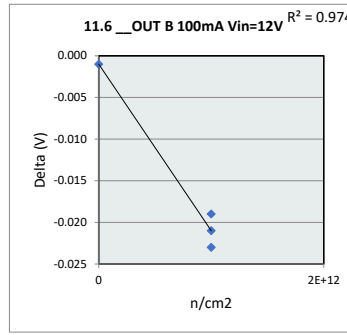


| 11.5 __OUT A 100mA Vin=12V |       |       |
|----------------------------|-------|-------|
| Test Site                  |       |       |
| Tester                     |       |       |
| Test Number                |       |       |
| Max Limit                  | 2.04  | V     |
| Min Limit                  | 0     | V     |
| n/cm2                      | 0     | 1E+12 |
| LL                         | 0.000 | 0.000 |
| Min                        | 0.643 | 0.643 |
| Average                    | 0.643 | 0.651 |
| Max                        | 0.643 | 0.666 |
| UL                         | 2.040 | 2.040 |

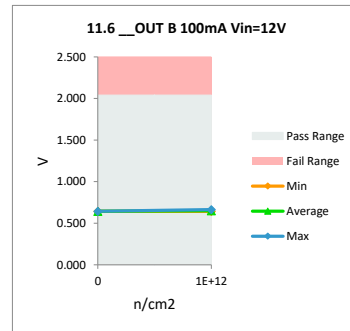


# NDD Report UC1846-SP

| 11.6 __OUT B 100mA Vin=12V |          |           |          |        |
|----------------------------|----------|-----------|----------|--------|
| Test Site                  |          |           |          |        |
| Tester                     |          |           |          |        |
| Test Number                |          |           |          |        |
| Unit                       | V        | V         |          |        |
| Max Limit                  | 2.09     | 2.04      |          |        |
| Min Limit                  | 0        | 0         |          |        |
| n/cm2                      | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                      | 28       | 0.661     | 0.642    | -0.019 |
| 1E+12                      | 29       | 0.666     | 0.645    | -0.021 |
| 1E+12                      | 30       | 0.687     | 0.664    | -0.023 |
| 0                          | 119      | 0.645     | 0.644    | -0.001 |
|                            | Max      | 0.687     | 0.664    | -0.001 |
|                            | Average  | 0.665     | 0.649    | -0.016 |
|                            | Min      | 0.645     | 0.642    | -0.023 |
|                            | Std Dev  | 0.017     | 0.010    | 0.010  |

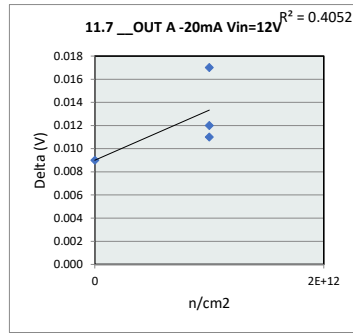


| 11.6 __OUT B 100mA Vin=12V |       |       |
|----------------------------|-------|-------|
| Test Site                  |       |       |
| Tester                     |       |       |
| Test Number                |       |       |
| Max Limit                  | 2.04  | V     |
| Min Limit                  | 0     | V     |
| n/cm2                      | 0     | 1E+12 |
| LL                         | 0.000 | 0.000 |
| Min                        | 0.644 | 0.642 |
| Average                    | 0.644 | 0.650 |
| Max                        | 0.644 | 0.664 |
| UL                         | 2.040 | 2.040 |

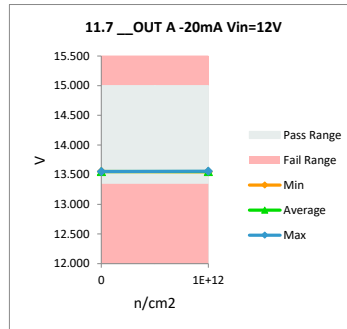


NDD Report  
UC1846-SP

| 11.7 __OUT A -20mA Vin=12V |          |           |          |       |
|----------------------------|----------|-----------|----------|-------|
| Test Site                  |          |           |          |       |
| Tester                     |          |           |          |       |
| Test Number                |          |           |          |       |
| Unit                       | V        | V         |          |       |
| Max Limit                  | 15       | 15        |          |       |
| Min Limit                  | 13.045   | 13.345    |          |       |
| n/cm2                      | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12                      | 28       | 13.541    | 13.558   | 0.017 |
| 1E+12                      | 29       | 13.539    | 13.551   | 0.012 |
| 1E+12                      | 30       | 13.538    | 13.549   | 0.011 |
| 0                          | 119      | 13.544    | 13.553   | 0.009 |
|                            | Max      | 13.544    | 13.558   | 0.017 |
|                            | Average  | 13.540    | 13.553   | 0.012 |
|                            | Min      | 13.538    | 13.549   | 0.009 |
|                            | Std Dev  | 0.003     | 0.004    | 0.003 |

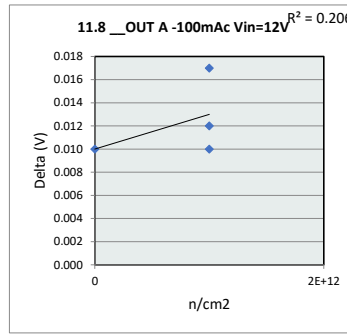


| 11.7 __OUT A -20mA Vin=12V |        |        |
|----------------------------|--------|--------|
| Test Site                  |        |        |
| Tester                     |        |        |
| Test Number                |        |        |
| Max Limit                  | 15     | V      |
| Min Limit                  | 13.345 | V      |
| n/cm2                      | 0      | 1E+12  |
| LL                         | 13.345 | 13.345 |
| Min                        | 13.553 | 13.549 |
| Average                    | 13.553 | 13.553 |
| Max                        | 13.553 | 13.558 |
| UL                         | 15.000 | 15.000 |

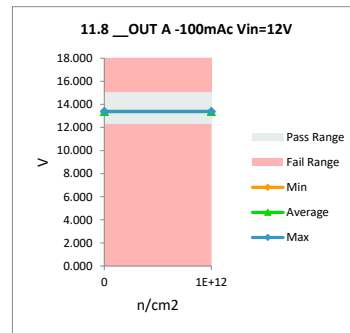


NDD Report  
UC1846-SP

| 11.8 __ OUT A -100mAc Vin=12V |          |           |          |       |
|-------------------------------|----------|-----------|----------|-------|
| Test Site                     |          |           |          |       |
| Tester                        |          |           |          |       |
| Test Number                   |          |           |          |       |
| Unit                          | V        | V         |          |       |
| Max Limit                     | 15       | 15        |          |       |
| Min Limit                     | 12.03    | 12.3      |          |       |
| n/cm2                         | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12                         | 28       | 13.371    | 13.388   | 0.017 |
| 1E+12                         | 29       | 13.369    | 13.381   | 0.012 |
| 1E+12                         | 30       | 13.369    | 13.379   | 0.010 |
| 0                             | 119      | 13.373    | 13.383   | 0.010 |
|                               | Max      | 13.373    | 13.388   | 0.017 |
|                               | Average  | 13.371    | 13.383   | 0.012 |
|                               | Min      | 13.369    | 13.379   | 0.010 |
|                               | Std Dev  | 0.002     | 0.004    | 0.003 |

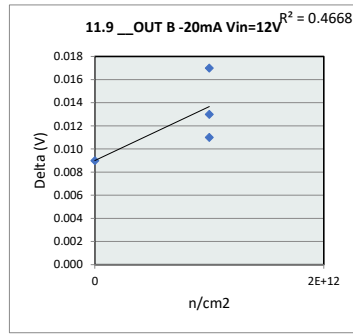


| 11.8 __ OUT A -100mAc Vin=12V |        |        |
|-------------------------------|--------|--------|
| Test Site                     |        |        |
| Tester                        |        |        |
| Test Number                   |        |        |
| Max Limit                     | 15     | V      |
| Min Limit                     | 12.3   | V      |
| n/cm2                         | 0      | 1E+12  |
| LL                            | 12.300 | 12.300 |
| Min                           | 13.383 | 13.379 |
| Average                       | 13.383 | 13.383 |
| Max                           | 13.383 | 13.388 |
| UL                            | 15.000 | 15.000 |

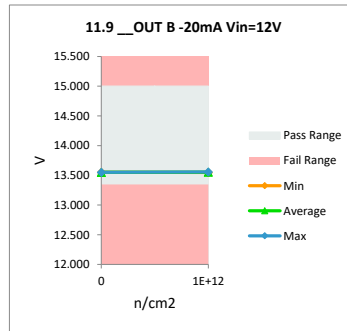


NDD Report  
UC1846-SP

| 11.9 __ OUT B -20mA Vin=12V |          |           |          |       |
|-----------------------------|----------|-----------|----------|-------|
| Test Site                   |          |           |          |       |
| Tester                      |          |           |          |       |
| Test Number                 |          |           |          |       |
| Unit                        | V        | V         |          |       |
| Max Limit                   | 15       | 15        |          |       |
| Min Limit                   | 13.045   | 13.345    |          |       |
| n/cm2                       | Serial # | Post Edit | Pre Edit | Delta |
| 1E+12                       | 28       | 13.540    | 13.557   | 0.017 |
| 1E+12                       | 29       | 13.537    | 13.550   | 0.013 |
| 1E+12                       | 30       | 13.537    | 13.548   | 0.011 |
| 0                           | 119      | 13.542    | 13.551   | 0.009 |
|                             | Max      | 13.542    | 13.557   | 0.017 |
|                             | Average  | 13.539    | 13.552   | 0.013 |
|                             | Min      | 13.537    | 13.548   | 0.009 |
|                             | Std Dev  | 0.002     | 0.004    | 0.003 |



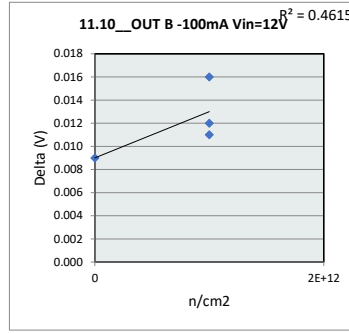
| 11.9 __ OUT B -20mA Vin=12V |        |        |
|-----------------------------|--------|--------|
| Test Site                   |        |        |
| Tester                      |        |        |
| Test Number                 |        |        |
| Max Limit                   | 15     | V      |
| Min Limit                   | 13.345 | V      |
| n/cm2                       | 0      | 1E+12  |
| LL                          | 13.345 | 13.345 |
| Min                         | 13.551 | 13.548 |
| Average                     | 13.551 | 13.552 |
| Max                         | 13.551 | 13.557 |
| UL                          | 15.000 | 15.000 |



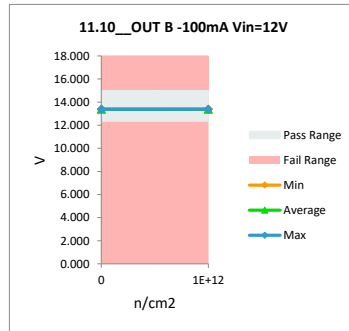
NDD Report  
UC1846-SP

| 11.10_OUT B -100mA Vin=12V |       |      |
|----------------------------|-------|------|
| Test Site                  |       |      |
| Tester                     |       |      |
| Test Number                |       |      |
| Unit                       | V     | V    |
| Max Limit                  | 15    | 15   |
| Min Limit                  | 12.03 | 12.3 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta |
|-------|----------|-----------|----------|-------|
| 1E+12 | 28       | 13.371    | 13.387   | 0.016 |
| 1E+12 | 29       | 13.368    | 13.380   | 0.012 |
| 1E+12 | 30       | 13.368    | 13.379   | 0.011 |
| 0     | 119      | 13.373    | 13.382   | 0.009 |
|       | Max      | 13.373    | 13.387   | 0.016 |
|       | Average  | 13.370    | 13.382   | 0.012 |
|       | Min      | 13.368    | 13.379   | 0.009 |
|       | Std Dev  | 0.002     | 0.004    | 0.003 |

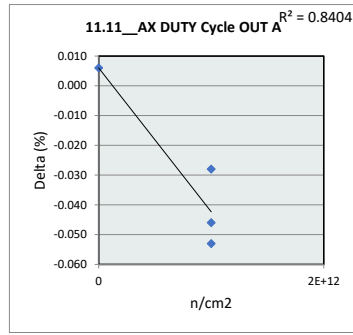


| 11.10_OUT B -100mA Vin=12V |        |        |
|----------------------------|--------|--------|
| Test Site                  |        |        |
| Tester                     |        |        |
| Test Number                |        |        |
| Max Limit                  | 15     | V      |
| Min Limit                  | 12.3   | V      |
| n/cm2                      | 0      | 1E+12  |
| LL                         | 12.300 | 12.300 |
| Min                        | 13.382 | 13.379 |
| Average                    | 13.382 | 13.382 |
| Max                        | 13.382 | 13.387 |
| UL                         | 15.000 | 15.000 |

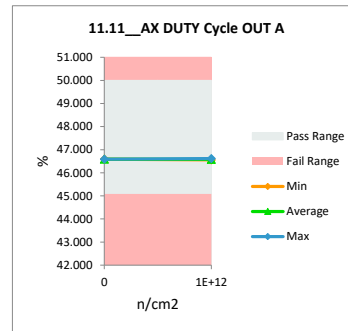


NDD Report  
UC1846-SP

| 11.11_AX DUTY Cycle OUT A |          |           |          |        |
|---------------------------|----------|-----------|----------|--------|
| Test Site                 |          |           |          |        |
| Tester                    |          |           |          |        |
| Test Number               |          |           |          |        |
| Unit                      |          | %         | %        |        |
| Max Limit                 |          | 50        | 50       |        |
| Min Limit                 |          | 45.05     | 45.08    |        |
| n/cm2                     | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                     | 28       | 46.643    | 46.615   | -0.028 |
| 1E+12                     | 29       | 46.625    | 46.572   | -0.053 |
| 1E+12                     | 30       | 46.604    | 46.558   | -0.046 |
| 0                         | 119      | 46.581    | 46.587   | 0.006  |
|                           | Max      | 46.643    | 46.615   | 0.006  |
|                           | Average  | 46.613    | 46.583   | -0.030 |
|                           | Min      | 46.581    | 46.558   | -0.053 |
|                           | Std Dev  | 0.027     | 0.024    | 0.026  |

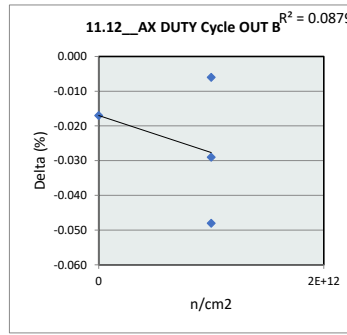


| 11.11_AX DUTY Cycle OUT A |        |        |
|---------------------------|--------|--------|
| Test Site                 |        |        |
| Tester                    |        |        |
| Test Number               |        |        |
| Max Limit                 | 50     | %      |
| Min Limit                 | 45.08  | %      |
| n/cm2                     | 0      | 1E+12  |
| LL                        | 45.080 | 45.080 |
| Min                       | 46.587 | 46.558 |
| Average                   | 46.587 | 46.582 |
| Max                       | 46.587 | 46.615 |
| UL                        | 50.000 | 50.000 |

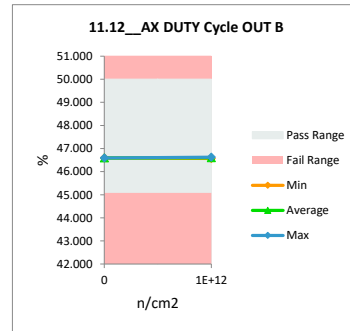


NDD Report  
UC1846-SP

| 11.12_AX DUTY Cycle OUT B |          |           |          |        |
|---------------------------|----------|-----------|----------|--------|
| Test Site                 |          |           |          |        |
| Tester                    |          |           |          |        |
| Test Number               |          |           |          |        |
| Unit                      |          | %         | %        |        |
| Max Limit                 |          | 50        | 50       |        |
| Min Limit                 |          | 45.05     | 45.08    |        |
| n/cm2                     | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                     | 28       | 46.673    | 46.625   | -0.048 |
| 1E+12                     | 29       | 46.633    | 46.604   | -0.029 |
| 1E+12                     | 30       | 46.577    | 46.571   | -0.006 |
| 0                         | 119      | 46.609    | 46.592   | -0.017 |
|                           | Max      | 46.673    | 46.625   | -0.006 |
|                           | Average  | 46.623    | 46.598   | -0.025 |
|                           | Min      | 46.577    | 46.571   | -0.048 |
|                           | Std Dev  | 0.040     | 0.023    | 0.018  |



| 11.12_AX DUTY Cycle OUT B |        |        |
|---------------------------|--------|--------|
| Test Site                 |        |        |
| Tester                    |        |        |
| Test Number               |        |        |
| Max Limit                 | 50     | %      |
| Min Limit                 | 45.08  | %      |
| n/cm2                     | 0      | 1E+12  |
| LL                        | 45.080 | 45.080 |
| Min                       | 46.592 | 46.571 |
| Average                   | 46.592 | 46.600 |
| Max                       | 46.592 | 46.625 |
| UL                        | 50.000 | 50.000 |

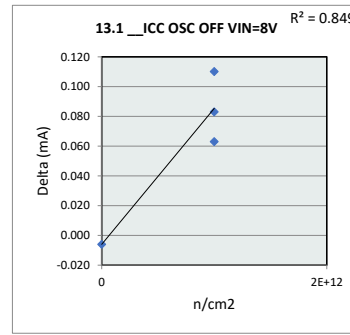




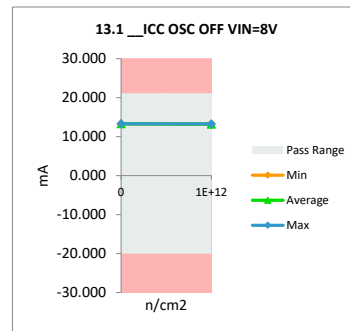
NDD Report  
UC1846-SP

| 13.1 __ICC OSC OFF VIN=8V |     |     |
|---------------------------|-----|-----|
| Test Site                 |     |     |
| Tester                    |     |     |
| Test Number               |     |     |
| Unit                      | mA  | mA  |
| Max Limit                 | 21  | 21  |
| Min Limit                 | -20 | -20 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 13.198    | 13.261   | 0.063  |
| 1E+12 | 29       | 13.120    | 13.230   | 0.110  |
| 1E+12 | 30       | 13.093    | 13.176   | 0.083  |
| 0     | 119      | 13.304    | 13.298   | -0.006 |
|       | Max      | 13.304    | 13.298   | 0.110  |
|       | Average  | 13.179    | 13.241   | 0.062  |
|       | Min      | 13.093    | 13.176   | -0.006 |
|       | Std Dev  | 0.095     | 0.052    | 0.050  |



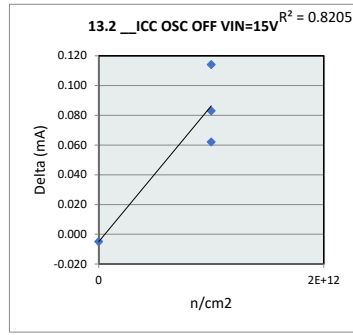
| 13.1 __ICC OSC OFF VIN=8V |         |         |
|---------------------------|---------|---------|
| Test Site                 |         |         |
| Tester                    |         |         |
| Test Number               |         |         |
| Max Limit                 | 21      | mA      |
| Min Limit                 | -20     | mA      |
| n/cm2                     | 0       | 1E+12   |
| LL                        | -20.000 | -20.000 |
| Min                       | 13.298  | 13.176  |
| Average                   | 13.298  | 13.222  |
| Max                       | 13.298  | 13.261  |
| UL                        | 21.000  | 21.000  |



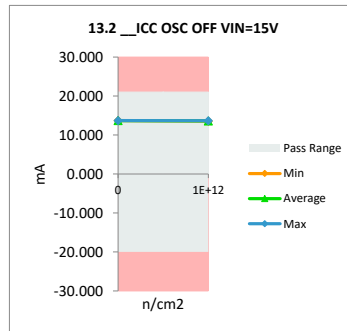
# NDD Report UC1846-SP

| 13.2 __ICC OSC OFF VIN=15V |     |     |
|----------------------------|-----|-----|
| Test Site                  |     |     |
| Tester                     |     |     |
| Test Number                |     |     |
| Unit                       | mA  | mA  |
| Max Limit                  | 21  | 21  |
| Min Limit                  | -20 | -20 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 13.608    | 13.670   | 0.062  |
| 1E+12 | 29       | 13.528    | 13.642   | 0.114  |
| 1E+12 | 30       | 13.502    | 13.585   | 0.083  |
| 0     | 119      | 13.717    | 13.712   | -0.005 |
|       | Max      | 13.717    | 13.712   | 0.114  |
|       | Average  | 13.589    | 13.652   | 0.064  |
|       | Min      | 13.502    | 13.585   | -0.005 |
|       | Std Dev  | 0.097     | 0.053    | 0.050  |



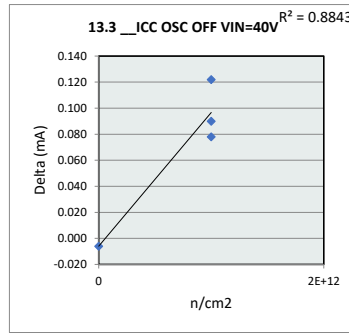
| 13.2 __ICC OSC OFF VIN=15V |         |         |
|----------------------------|---------|---------|
| Test Site                  |         |         |
| Tester                     |         |         |
| Test Number                |         |         |
| Max Limit                  | 21      | mA      |
| Min Limit                  | -20     | mA      |
| n/cm2                      | 0       | 1E+12   |
| LL                         | -20.000 | -20.000 |
| Min                        | 13.712  | 13.585  |
| Average                    | 13.712  | 13.632  |
| Max                        | 13.712  | 13.670  |
| UL                         | 21.000  | 21.000  |



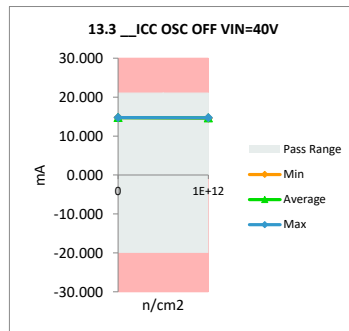
# NDD Report UC1846-SP

| 13.3 __ICC OSC OFF VIN=40V |     |     |
|----------------------------|-----|-----|
| Test Site                  |     |     |
| Tester                     |     |     |
| Test Number                |     |     |
| Unit                       | mA  | mA  |
| Max Limit                  | 21  | 21  |
| Min Limit                  | -20 | -20 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 14.615    | 14.693   | 0.078  |
| 1E+12 | 29       | 14.549    | 14.671   | 0.122  |
| 1E+12 | 30       | 14.516    | 14.606   | 0.090  |
| 0     | 119      | 14.753    | 14.747   | -0.006 |
|       | Max      | 14.753    | 14.747   | 0.122  |
|       | Average  | 14.608    | 14.679   | 0.071  |
|       | Min      | 14.516    | 14.606   | -0.006 |
|       | Std Dev  | 0.105     | 0.058    | 0.055  |

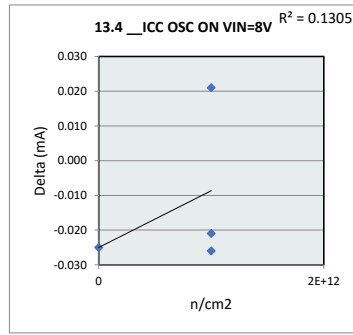


| 13.3 __ICC OSC OFF VIN=40V |         |         |
|----------------------------|---------|---------|
| Test Site                  |         |         |
| Tester                     |         |         |
| Test Number                |         |         |
| Max Limit                  | 21      | mA      |
| Min Limit                  | -20     | mA      |
| n/cm2                      | 0       | 1E+12   |
| LL                         | -20.000 | -20.000 |
| Min                        | 14.747  | 14.606  |
| Average                    | 14.747  | 14.657  |
| Max                        | 14.747  | 14.693  |
| UL                         | 21.000  | 21.000  |

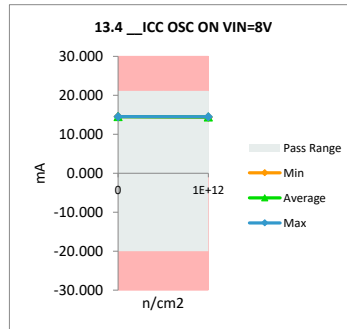


### NDD Report UC1846-SP

| 13.4 __ ICC OSC ON VIN=8V |          |           |          |        |
|---------------------------|----------|-----------|----------|--------|
| Test Site                 |          |           |          |        |
| Tester                    |          |           |          |        |
| Test Number               |          |           |          |        |
| Unit                      |          | mA        | mA       |        |
| Max Limit                 |          | 21        | 21       |        |
| Min Limit                 |          | -20       | -20      |        |
| n/cm2                     | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12                     | 28       | 14.518    | 14.497   | -0.021 |
| 1E+12                     | 29       | 14.445    | 14.466   | 0.021  |
| 1E+12                     | 30       | 14.396    | 14.370   | -0.026 |
| 0                         | 119      | 14.561    | 14.536   | -0.025 |
|                           | Max      | 14.561    | 14.536   | 0.021  |
|                           | Average  | 14.480    | 14.467   | -0.013 |
|                           | Min      | 14.396    | 14.370   | -0.026 |
|                           | Std Dev  | 0.074     | 0.071    | 0.023  |



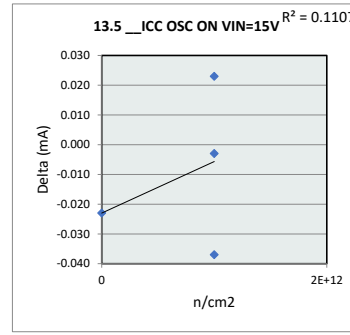
| 13.4 __ ICC OSC ON VIN=8V |         |         |
|---------------------------|---------|---------|
| Test Site                 |         |         |
| Tester                    |         |         |
| Test Number               |         |         |
| Max Limit                 | 21      | mA      |
| Min Limit                 | -20     | mA      |
| n/cm2                     | 0       | 1E+12   |
| LL                        | -20.000 | -20.000 |
| Min                       | 14.536  | 14.370  |
| Average                   | 14.536  | 14.444  |
| Max                       | 14.536  | 14.497  |
| UL                        | 21.000  | 21.000  |



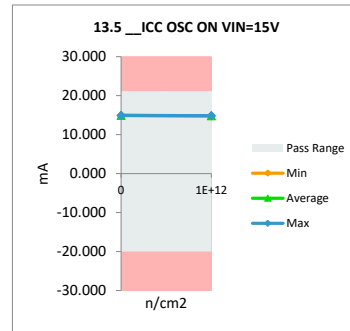
# NDD Report UC1846-SP

| 13.5 __ ICC OSC ON VIN=15V |     |     |
|----------------------------|-----|-----|
| Test Site                  |     |     |
| Tester                     |     |     |
| Test Number                |     |     |
| Unit                       | mA  | mA  |
| Max Limit                  | 21  | 21  |
| Min Limit                  | -20 | -20 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 14.915    | 14.878   | -0.037 |
| 1E+12 | 29       | 14.834    | 14.857   | 0.023  |
| 1E+12 | 30       | 14.789    | 14.786   | -0.003 |
| 0     | 119      | 14.955    | 14.932   | -0.023 |
|       | Max      | 14.955    | 14.932   | 0.023  |
|       | Average  | 14.873    | 14.863   | -0.010 |
|       | Min      | 14.789    | 14.786   | -0.037 |
|       | Std Dev  | 0.075     | 0.060    | 0.026  |



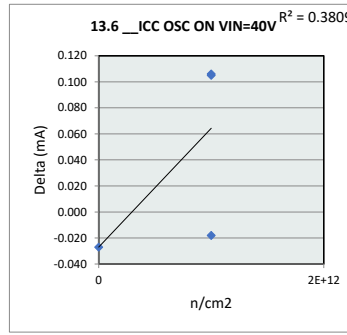
| 13.5 __ ICC OSC ON VIN=15V |         |         |
|----------------------------|---------|---------|
| Test Site                  |         |         |
| Tester                     |         |         |
| Test Number                |         |         |
| Max Limit                  | 21      | mA      |
| Min Limit                  | -20     | mA      |
| n/cm2                      | 0       | 1E+12   |
| LL                         | -20.000 | -20.000 |
| Min                        | 14.932  | 14.786  |
| Average                    | 14.932  | 14.840  |
| Max                        | 14.932  | 14.878  |
| UL                         | 21.000  | 21.000  |



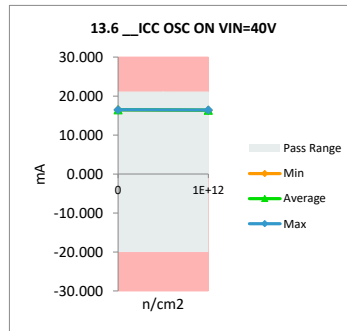
NDD Report  
UC1846-SP

| 13.6 __ICC OSC ON VIN=40V |     |     |
|---------------------------|-----|-----|
| Test Site                 |     |     |
| Tester                    |     |     |
| Test Number               |     |     |
| Unit                      | mA  | mA  |
| Max Limit                 | 21  | 21  |
| Min Limit                 | -20 | -20 |

| n/cm2 | Serial # | Post Edit | Pre Edit | Delta  |
|-------|----------|-----------|----------|--------|
| 1E+12 | 28       | 16.442    | 16.424   | -0.018 |
| 1E+12 | 29       | 16.294    | 16.399   | 0.105  |
| 1E+12 | 30       | 16.230    | 16.336   | 0.106  |
| 0     | 119      | 16.519    | 16.492   | -0.027 |
|       | Max      | 16.519    | 16.492   | 0.106  |
|       | Average  | 16.371    | 16.413   | 0.042  |
|       | Min      | 16.230    | 16.336   | -0.027 |
|       | Std Dev  | 0.133     | 0.065    | 0.074  |

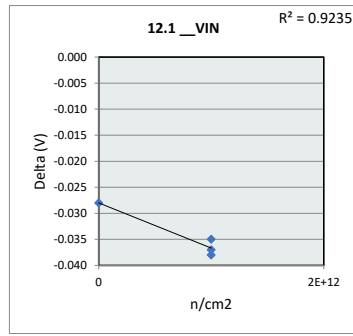


| 13.6 __ICC OSC ON VIN=40V |         |         |
|---------------------------|---------|---------|
| Test Site                 |         |         |
| Tester                    |         |         |
| Test Number               |         |         |
| Max Limit                 | 21      | mA      |
| Min Limit                 | -20     | mA      |
| n/cm2                     | 0       | 1E+12   |
| LL                        | -20.000 | -20.000 |
| Min                       | 16.492  | 16.336  |
| Average                   | 16.492  | 16.386  |
| Max                       | 16.492  | 16.424  |
| UL                        | 21.000  | 21.000  |

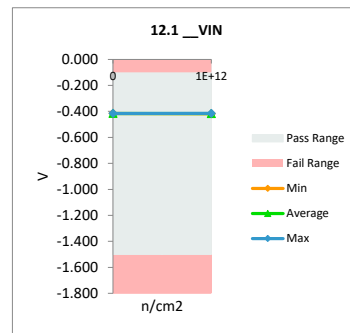


NDD Report  
UC1846-SP

| 12.1 __VIN  |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        |           | V        |        |
| Max Limit   | -0.1     |           | -0.1     |        |
| Min Limit   | -1.5     |           | -1.5     |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.380    | -0.417   | -0.037 |
| 1E+12       | 29       | -0.380    | -0.415   | -0.035 |
| 1E+12       | 30       | -0.380    | -0.418   | -0.038 |
| 0           | 119      | -0.388    | -0.416   | -0.028 |
|             | Max      | -0.380    | -0.415   | -0.028 |
|             | Average  | -0.382    | -0.417   | -0.035 |
|             | Min      | -0.388    | -0.418   | -0.038 |
|             | Std Dev  | 0.004     | 0.001    | 0.005  |

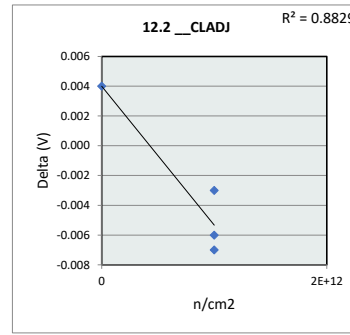


| 12.1 __VIN  |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.416 | -0.418 |
| Average     | -0.416 | -0.417 |
| Max         | -0.416 | -0.415 |
| UL          | -0.100 | -0.100 |

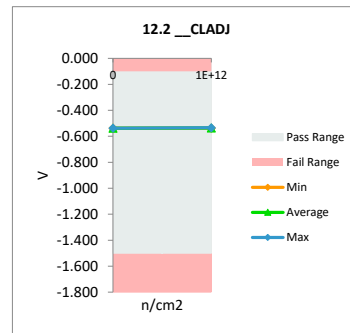


NDD Report  
UC1846-SP

| 12.2 __CLADJ |          |           |          |        |
|--------------|----------|-----------|----------|--------|
| Test Site    |          |           |          |        |
| Tester       |          |           |          |        |
| Test Number  |          |           |          |        |
| Unit         |          | V         | V        |        |
| Max Limit    |          | -0.1      | -0.1     |        |
| Min Limit    |          | -1.5      | -1.5     |        |
| n/cm2        | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12        | 28       | -0.531    | -0.534   | -0.003 |
| 1E+12        | 29       | -0.531    | -0.537   | -0.006 |
| 1E+12        | 30       | -0.530    | -0.537   | -0.007 |
| 0            | 119      | -0.542    | -0.538   | 0.004  |
|              | Max      | -0.530    | -0.534   | 0.004  |
|              | Average  | -0.534    | -0.536   | -0.003 |
|              | Min      | -0.542    | -0.538   | -0.007 |
|              | Std Dev  | 0.006     | 0.002    | 0.005  |



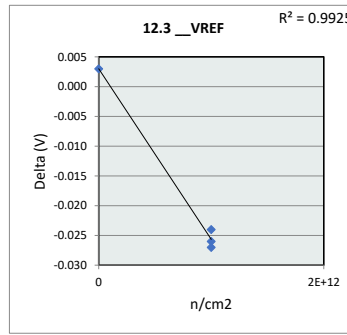
| 12.2 __CLADJ |        |        |
|--------------|--------|--------|
| Test Site    |        |        |
| Tester       |        |        |
| Test Number  |        |        |
| Max Limit    | -0.1   | V      |
| Min Limit    | -1.5   | V      |
| n/cm2        | 0      | 1E+12  |
| LL           | -1.500 | -1.500 |
| Min          | -0.538 | -0.537 |
| Average      | -0.538 | -0.536 |
| Max          | -0.538 | -0.534 |
| UL           | -0.100 | -0.100 |



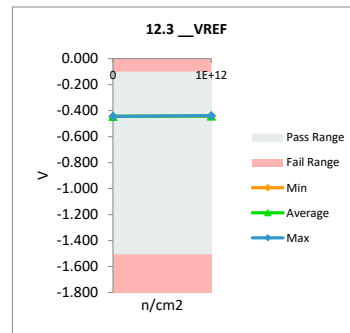


NDD Report  
UC1846-SP

| 12.3 _ VREF |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.414    | -0.438   | -0.024 |
| 1E+12       | 29       | -0.415    | -0.441   | -0.026 |
| 1E+12       | 30       | -0.415    | -0.442   | -0.027 |
| 0           | 119      | -0.447    | -0.444   | 0.003  |
|             | Max      | -0.414    | -0.438   | 0.003  |
|             | Average  | -0.423    | -0.441   | -0.019 |
|             | Min      | -0.447    | -0.444   | -0.027 |
|             | Std Dev  | 0.016     | 0.003    | 0.014  |

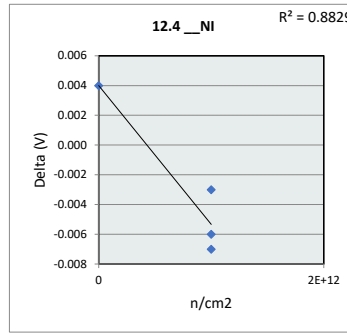


| 12.3 _ VREF |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.444 | -0.442 |
| Average     | -0.444 | -0.440 |
| Max         | -0.444 | -0.438 |
| UL          | -0.100 | -0.100 |

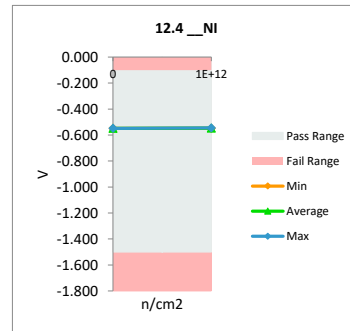


NDD Report  
UC1846-SP

| 12.4 __NI   |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.542    | -0.545   | -0.003 |
| 1E+12       | 29       | -0.542    | -0.548   | -0.006 |
| 1E+12       | 30       | -0.541    | -0.548   | -0.007 |
| 0           | 119      | -0.553    | -0.549   | 0.004  |
|             | Max      | -0.541    | -0.545   | 0.004  |
|             | Average  | -0.544    | -0.547   | -0.003 |
|             | Min      | -0.553    | -0.549   | -0.007 |
|             | Std Dev  | 0.006     | 0.002    | 0.005  |

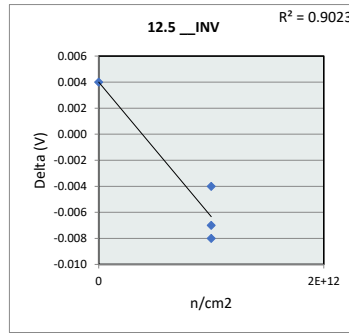


| 12.4 __NI   |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.549 | -0.548 |
| Average     | -0.549 | -0.547 |
| Max         | -0.549 | -0.545 |
| UL          | -0.100 | -0.100 |

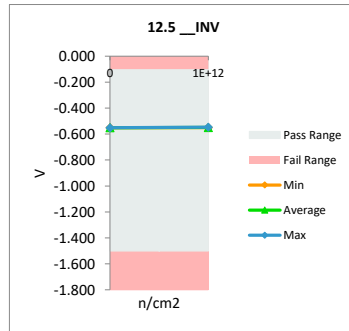


NDD Report  
UC1846-SP

| 12.5 _ INV  |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.543    | -0.547   | -0.004 |
| 1E+12       | 29       | -0.543    | -0.550   | -0.007 |
| 1E+12       | 30       | -0.542    | -0.550   | -0.008 |
| 0           | 119      | -0.555    | -0.551   | 0.004  |
|             | Max      | -0.542    | -0.547   | 0.004  |
|             | Average  | -0.546    | -0.550   | -0.004 |
|             | Min      | -0.555    | -0.551   | -0.008 |
|             | Std Dev  | 0.006     | 0.002    | 0.005  |

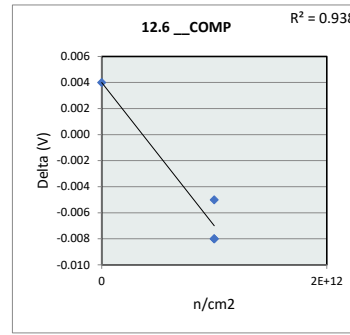


| 12.5 _ INV  |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.551 | -0.550 |
| Average     | -0.551 | -0.549 |
| Max         | -0.551 | -0.547 |
| UL          | -0.100 | -0.100 |

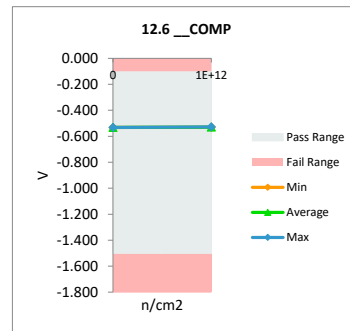


NDD Report  
UC1846-SP

| 12.6 __COMP |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.523    | -0.528   | -0.005 |
| 1E+12       | 29       | -0.523    | -0.531   | -0.008 |
| 1E+12       | 30       | -0.523    | -0.531   | -0.008 |
| 0           | 119      | -0.536    | -0.532   | 0.004  |
|             | Max      | -0.523    | -0.528   | 0.004  |
|             | Average  | -0.526    | -0.531   | -0.004 |
|             | Min      | -0.536    | -0.532   | -0.008 |
|             | Std Dev  | 0.007     | 0.002    | 0.006  |

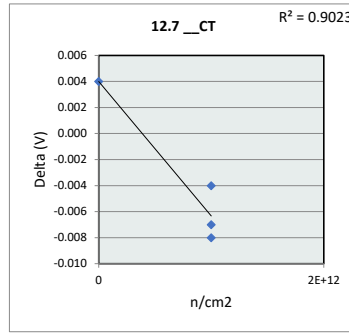


| 12.6 __COMP |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.532 | -0.531 |
| Average     | -0.532 | -0.530 |
| Max         | -0.532 | -0.528 |
| UL          | -0.100 | -0.100 |

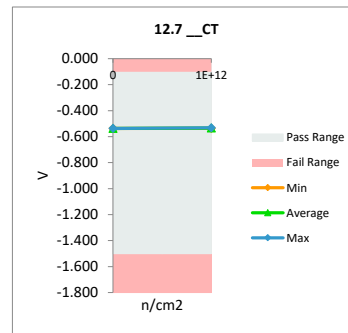


NDD Report  
UC1846-SP

| 12.7 __CT   |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.528    | -0.532   | -0.004 |
| 1E+12       | 29       | -0.528    | -0.535   | -0.007 |
| 1E+12       | 30       | -0.528    | -0.536   | -0.008 |
| 0           | 119      | -0.541    | -0.537   | 0.004  |
|             | Max      | -0.528    | -0.532   | 0.004  |
|             | Average  | -0.531    | -0.535   | -0.004 |
|             | Min      | -0.541    | -0.537   | -0.008 |
|             | Std Dev  | 0.007     | 0.002    | 0.005  |

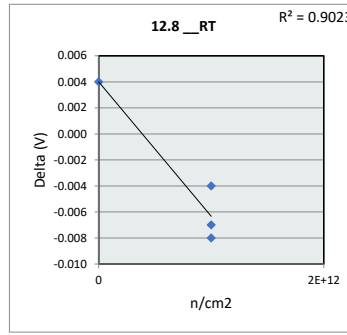


| 12.7 __CT   |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.537 | -0.536 |
| Average     | -0.537 | -0.534 |
| Max         | -0.537 | -0.532 |
| UL          | -0.100 | -0.100 |

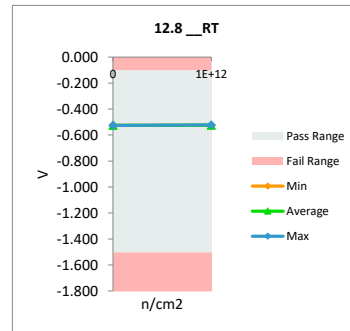


NDD Report  
UC1846-SP

| 12.8 __RT   |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.518    | -0.522   | -0.004 |
| 1E+12       | 29       | -0.518    | -0.525   | -0.007 |
| 1E+12       | 30       | -0.517    | -0.525   | -0.008 |
| 0           | 119      | -0.530    | -0.526   | 0.004  |
|             | Max      | -0.517    | -0.522   | 0.004  |
|             | Average  | -0.521    | -0.524   | -0.004 |
|             | Min      | -0.530    | -0.526   | -0.008 |
|             | Std Dev  | 0.006     | 0.002    | 0.005  |

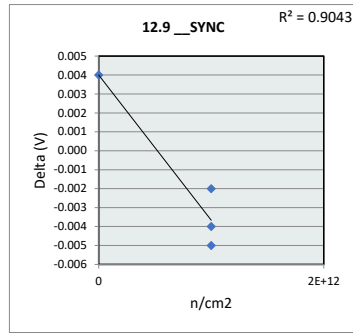


| 12.8 __RT   |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.526 | -0.525 |
| Average     | -0.526 | -0.524 |
| Max         | -0.526 | -0.522 |
| UL          | -0.100 | -0.100 |

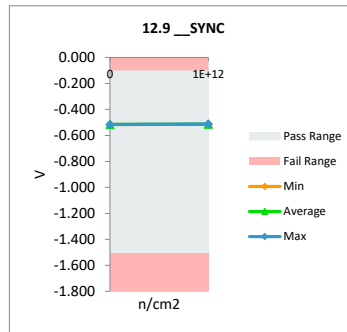


NDD Report  
UC1846-SP

| 12.9 __ SYNC |          |           |          |        |
|--------------|----------|-----------|----------|--------|
| Test Site    |          |           |          |        |
| Tester       |          |           |          |        |
| Test Number  |          |           |          |        |
| Unit         | V        | V         |          |        |
| Max Limit    | -0.1     | -0.1      |          |        |
| Min Limit    | -1.5     | -1.5      |          |        |
| n/cm2        | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12        | 28       | -0.510    | -0.512   | -0.002 |
| 1E+12        | 29       | -0.511    | -0.515   | -0.004 |
| 1E+12        | 30       | -0.510    | -0.515   | -0.005 |
| 0            | 119      | -0.520    | -0.516   | 0.004  |
|              | Max      | -0.510    | -0.512   | 0.004  |
|              | Average  | -0.513    | -0.514   | -0.002 |
|              | Min      | -0.520    | -0.516   | -0.005 |
|              | Std Dev  | 0.005     | 0.002    | 0.004  |

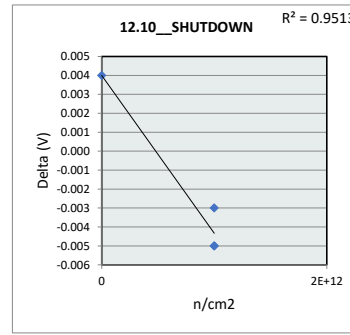


| 12.9 __ SYNC |        |        |
|--------------|--------|--------|
| Test Site    |        |        |
| Tester       |        |        |
| Test Number  |        |        |
| Max Limit    | -0.1   | V      |
| Min Limit    | -1.5   | V      |
| n/cm2        | 0      | 1E+12  |
| LL           | -1.500 | -1.500 |
| Min          | -0.516 | -0.515 |
| Average      | -0.516 | -0.514 |
| Max          | -0.516 | -0.512 |
| UL           | -0.100 | -0.100 |

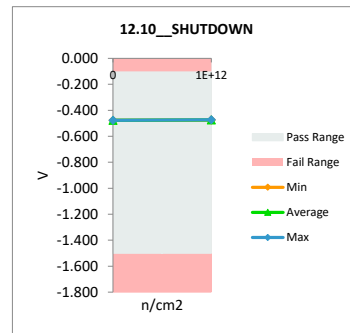


NDD Report  
UC1846-SP

| 12.10_SHUTDOWN |          |           |          |        |
|----------------|----------|-----------|----------|--------|
| Test Site      |          |           |          |        |
| Tester         |          |           |          |        |
| Test Number    |          |           |          |        |
| Unit           | V        | V         |          |        |
| Max Limit      | -0.1     | -0.1      |          |        |
| Min Limit      | -1.5     | -1.5      |          |        |
| n/cm2          | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12          | 28       | -0.470    | -0.473   | -0.003 |
| 1E+12          | 29       | -0.470    | -0.475   | -0.005 |
| 1E+12          | 30       | -0.470    | -0.475   | -0.005 |
| 0              | 119      | -0.481    | -0.477   | 0.004  |
|                | Max      | -0.470    | -0.473   | 0.004  |
|                | Average  | -0.473    | -0.475   | -0.002 |
|                | Min      | -0.481    | -0.477   | -0.005 |
|                | Std Dev  | 0.006     | 0.002    | 0.004  |



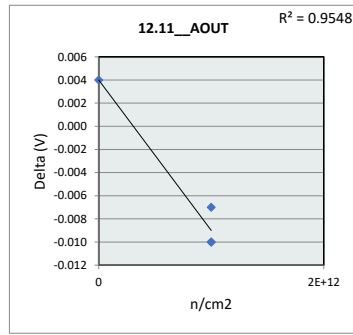
| 12.10_SHUTDOWN |        |        |
|----------------|--------|--------|
| Test Site      |        |        |
| Tester         |        |        |
| Test Number    |        |        |
| Max Limit      | -0.1   | V      |
| Min Limit      | -1.5   | V      |
| n/cm2          | 0      | 1E+12  |
| LL             | -1.500 | -1.500 |
| Min            | -0.477 | -0.475 |
| Average        | -0.477 | -0.474 |
| Max            | -0.477 | -0.473 |
| UL             | -0.100 | -0.100 |



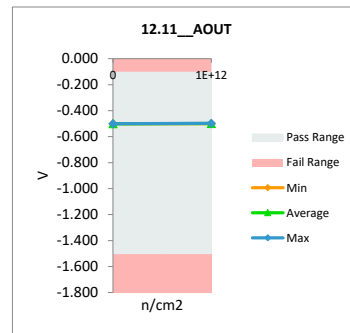


### NDD Report UC1846-SP

| 12.11_AOUT  |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.490    | -0.497   | -0.007 |
| 1E+12       | 29       | -0.490    | -0.500   | -0.010 |
| 1E+12       | 30       | -0.490    | -0.500   | -0.010 |
| 0           | 119      | -0.505    | -0.501   | 0.004  |
|             | Max      | -0.490    | -0.497   | 0.004  |
|             | Average  | -0.494    | -0.499   | -0.006 |
|             | Min      | -0.505    | -0.501   | -0.010 |
|             | Std Dev  | 0.007     | 0.002    | 0.007  |

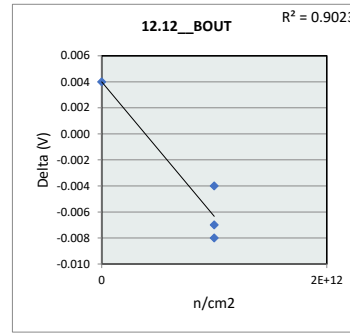


| 12.11_AOUT  |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.501 | -0.500 |
| Average     | -0.501 | -0.499 |
| Max         | -0.501 | -0.497 |
| UL          | -0.100 | -0.100 |

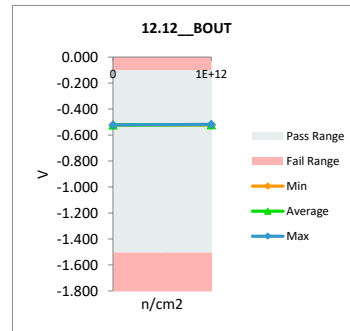


NDD Report  
UC1846-SP

| 12.12_BOUT  |          |           |          |        |
|-------------|----------|-----------|----------|--------|
| Test Site   |          |           |          |        |
| Tester      |          |           |          |        |
| Test Number |          |           |          |        |
| Unit        | V        | V         |          |        |
| Max Limit   | -0.1     | -0.1      |          |        |
| Min Limit   | -1.5     | -1.5      |          |        |
| n/cm2       | Serial # | Post Edit | Pre Edit | Delta  |
| 1E+12       | 28       | -0.514    | -0.518   | -0.004 |
| 1E+12       | 29       | -0.514    | -0.521   | -0.007 |
| 1E+12       | 30       | -0.514    | -0.522   | -0.008 |
| 0           | 119      | -0.526    | -0.522   | 0.004  |
|             | Max      | -0.514    | -0.518   | 0.004  |
|             | Average  | -0.517    | -0.521   | -0.004 |
|             | Min      | -0.526    | -0.522   | -0.008 |
|             | Std Dev  | 0.006     | 0.002    | 0.005  |



| 12.12_BOUT  |        |        |
|-------------|--------|--------|
| Test Site   |        |        |
| Tester      |        |        |
| Test Number |        |        |
| Max Limit   | -0.1   | V      |
| Min Limit   | -1.5   | V      |
| n/cm2       | 0      | 1E+12  |
| LL          | -1.500 | -1.500 |
| Min         | -0.522 | -0.522 |
| Average     | -0.522 | -0.520 |
| Max         | -0.522 | -0.518 |
| UL          | -0.100 | -0.100 |



## IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to [TI's Terms of Sale](#) or other applicable terms available either on [ti.com](http://ti.com) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2022, Texas Instruments Incorporated