

Radiation Report

**TPS7H4102-SEP and TPS7H4102-SP QMLP Neutron Displacement Damage (NDD) Characterization Report**



**ABSTRACT**

This report presents the effect of neutron displacement damage (NDD) on the TPS7H4102-SEP and TPS7H4102-SP QMLP, a 7V, 3A channel, dual channel, peak-current mode synchronous buck converter optimized for use in area sensitive, space environment applications. The TPS7H4102-SEP and TPS7H4102-SP QMLP showed a strong degree of hardness to neutron irradiation up to fluence level  $1 \times 10^{13}$  n/cm<sup>2</sup>. The neutron irradiation test is a destructive test. Test procedure follows MIL-STD-883 Method 1017 as guidance. The purpose of this test is to determine the device susceptibility to non-ionizing energy loss (NIEL) degradation. Objectives of the test are, to detect and measure the degradation of critical device parameters as a function of neutron fluence and to determine if these parameters are within specified limits after exposure to a specified level of neutron fluence.

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## 1 Device Information

### 1.1 Product Description

The TPS7H4102-SEP and TPS7H4102-SP QMLP are an integrated, 7V, 3A per channel, dual-channel, peak current mode, synchronous buck converter designed for use in area sensitive, space environment applications. The device incorporates two identical channels that can be used to step down the power input voltage (PVIN) into two independent voltages up to 3A per phase or interleaved to increment the output current as needed, up to 6A.

Each channel incorporates the high and low side power MOSFETs with programmable soft-start and slope compensation. In addition, per channel powergood flag, and enable signals are provided.

Per Phase cycle-by-cycle current limiting on the high-side FET protects the device in overload situations and is enhanced by a low-side sourcing-sinking current protection which prevents current runaway. Thermal shutdown disables the device when the die temperature exceeds thermal limit.

The TPS7H4102-SEP and TPS7H4102-SP QMLP are packaged in a 64-pin HTQFP plastic package. A standard microcircuit drawing (SMD) is available for the QML variant, 5962R2320802PYE. As the TPS7H4102-SEP and TPS7H4102-SP QMLP use the same material set, the results are applicable to both devices.

### 1.2 Device Details

[Table 1-1](#) lists the device information used in this NDD characterization.

**Table 1-1. Device and Exposure Details**

| NDD Exposure Details                     |                                                                                                        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------|
| TI Device                                | TPS7H4102-SEP                                                                                          |
| TI Part Name                             | TPS7H4102PAPTSEP                                                                                       |
| Package                                  | 64-pin HTQFP (PAP)                                                                                     |
| Technology                               | LBC7                                                                                                   |
| Lot Number/ LTC                          | 5151340 / 53CJVYW                                                                                      |
| Quantity Tested                          | 12 + 3 control units                                                                                   |
| Exposure Facility                        | Fast Neutron Irradiation (FNI) Facility of University of Massachusetts Lowell Research Reactor (UMLRR) |
| Neutron Fluence (1-MeV equivalent) Level | $1 \times 10^{12}$ , $5 \times 10^{12}$ , $1 \times 10^{13}$ n/cm <sup>2</sup>                         |
| Irradiation Temperature                  | Ambient room temperature                                                                               |

## 2 Total Dose Test Setup

### 2.1 Test Overview

The TPS7H4102-SEP was tested according to MIL-STD-883, Method 1017 as a guide for neutron irradiation. The TPS7H4102-SP was electrically tested using the production automated test equipment (ATE) program at an ambient room temperature of 25°C before and after neutron irradiation. All devices remained functional passing all parametric test limits.

### 2.2 Test Description and Facilities

The utilized test facility is the Fast Neutron Irradiation (FNI) Facility of University of Massachusetts Lowell Research Reactor. The neutron fluence for this irradiation was measured utilizing ASTM E-265 “Measuring Reaction Rates and Fast Neutron Fluence by Radioactivation of Sulfur-32” and correlated to the measured reactor power level. All irradiation conditions required under ASTM 722 were met, this includes: neutron fluence, distribution and uncertainty. The Average Integrated Neutron Fluence, 1-MeV(Si) equivalent, reflects these factors. Detailed information of the radiation facility is available at the following link: [UNIVERSITY OF MASSACHUSETTS LOWELL RESEARCH REACTOR](#)

### 2.3 Test Setup Details

Devices were irradiated at three fluence levels in unbiased conditions:  $1.0 \times 10^{12}$  n/cm<sup>2</sup>,  $5.0 \times 10^{12}$  n/cm<sup>2</sup> and  $1.0 \times 10^{13}$  n/cm<sup>2</sup>. See the details in the following table.

## 2.4 Test Configuration and Conditions

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

| GROUP         | SAMPLE QTY | NEUTRON FLUENCE (n/cm <sup>2</sup> ) | BIAS   |
|---------------|------------|--------------------------------------|--------|
| A             | 4          | $1.0 \times 10^{12}$                 | Unbias |
| B             | 4          | $5.0 \times 10^{12}$                 | Unbias |
| C             | 4          | $1.0 \times 10^{13}$                 | Unbias |
| Control Units | 3          | N/A                                  | N/A    |

## 3 NDD Characterization Test Results

### 3.1 NDD Characterization Summary

The results show that all devices were fully functional and within specification limits. A sample size of twelve units was exposed for neutron irradiation and an additional unirradiated control units were used as correlation.

Overall, the TPS7H4102-SEP and TPS7H4102-SP QMLP showed a strong degree of hardness to Neutron irradiation up to fluence level  $1 \times 10^{13} \text{ n/cm}^2$ . The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each fluence level. The parameters that showed a greater degree of change between pre- and post- irradiation were still within the Electrical Performance Characteristics specified in the Data Sheet Electrical Parameters table. See Table 3-1 for the Data Sheet Electrical Parameters and Associated Tests. Electrical testing is done for pre- and post- neutron irradiation by ATE. ATE electrical test is done at an ambient room temperature of 25°C. See Appendix A for NDD report up to  $1.0 \times 10^{13} \text{ n/cm}^2$ .

The parameters post-irradiation were still within the electrical performance characteristics specified in the data sheet electrical parameters. See [TPS7H410x-SP Radiation-Hardeness-Assured, 3V to 7V Input, 3A/Channel, Multichannel Synchronous Buck Converter](#) for the data sheet electrical parameters and associated tests.

See Appendix A for NDD report up to  $1 \times 10^{13} \text{ n/cm}^2$ .

### 3.2 Specification Compliance Matrix

Over  $3\text{V} \leq \text{VIN} \leq 7\text{V}$ ,  $\text{PVINx} = \text{VIN}$ ,  $\text{REFCAP} = 470\text{nF}$ , open loop configuration, over operating temperature range  $T_A = -55^\circ\text{C}$  to  $125^\circ\text{C}$ , typical values are at  $T_A = 25^\circ\text{C}$ , valid for 2 phases, unless otherwise noted; includes group E radiation testing at  $T_A = 25^\circ\text{C}$ .

**Table 3-1. Specification Compliance Matrix**

| Parameter                      |                                                                          | Test Conditions                                                        |  | MIN   | TYP    | MAX   | UNIT | Test Number            |
|--------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------|--|-------|--------|-------|------|------------------------|
| POWER SUPPLIES AND CURRENTS    |                                                                          |                                                                        |  |       |        |       |      |                        |
| V <sub>UVLOR_VIN</sub>         | VIN internal UVLO rising threshold                                       | I <sub>OUTx</sub> = 0A, V <sub>ENx</sub> = 1V, PVIN = 5V               |  | 2.63  | 2.7    | 2.83  | V    | 42.7, 42.8             |
| V <sub>UVLOF_VIN</sub>         | VIN internal UVLO falling threshold                                      | I <sub>OUTx</sub> = 0A, V <sub>ENx</sub> = 1V, PVIN = 5V               |  | 2.47  | 2.52   | 2.60  |      | 42.9, 42.10            |
| V <sub>UVLOR_PVIN</sub>        | PVIN internal UVLO rising threshold                                      | I <sub>OUTx</sub> = 0A, V <sub>ENx</sub> = 1V, VIN = 5V                |  | 2.37  | 2.44   | 2.58  | V    | 42.1, 42.2             |
| V <sub>UVLOF_PVIN</sub>        | PVIN internal UVLO falling threshold                                     | I <sub>OUTx</sub> = 0A, V <sub>ENx</sub> = 1V, VIN = 5V                |  | 1.96  | 2      | 2.11  |      | 42.3, 42.4             |
| I <sub>SHDN_VIN</sub>          | VIN shutdown supply current                                              | V <sub>ENx</sub> = 0V                                                  |  |       | 6      | 8.5   | mA   | 18.1, 19.1             |
| I <sub>SHDN_PVIN</sub>         | PVIN shutdown supply current                                             | V <sub>ENx</sub> = 0V                                                  |  |       | 2.3    | 4.3   |      | 18.2, 19.2             |
| I <sub>Q_VIN</sub>             | VIN operating quiescent current (non switching)                          | V <sub>ENx</sub> = 7V, VSNSx = 1V                                      |  |       | 6.7    | 15    |      | 18.3, 19.3             |
| I <sub>Q_PVIN</sub>            | PVIN operating quiescent current (non switching)                         | V <sub>ENx</sub> = 7V, VSNSx = 1V                                      |  |       | 2.1    | 3.7   |      | 18.4, 19.4             |
| ENABLE and EN_SEQ              |                                                                          |                                                                        |  |       |        |       |      |                        |
| V <sub>ENx_RISING</sub>        | Enable rising threshold (turn-on)                                        | PVINx = VIN = 5V                                                       |  | 0.573 | 0.606  | 0.645 | V    | 33.2, 33.3, 34.2, 34.3 |
| V <sub>ENx_FALLING</sub>       | Enable falling threshold (turn-off)                                      | PVINx = VIN = 5V                                                       |  | 0.473 | 0.500  | 0.532 |      | 33.4, 33.5, 34.4, 34.5 |
| t <sub>ENx_VIN_RISING_PD</sub> | Enable propagation delay when ENx and VIN are tied together.             | VIN=ENx high to SW high                                                |  |       | 0.85   | 1.7   | ms   | 35.1, 35.2, 36.1, 36.2 |
| t <sub>ENx_RISING_PD</sub>     | Enable propagation delay                                                 | ENx high to SW high when VIN>V <sub>UVLOR_VIN</sub> for at least 1.7ms |  |       | 50     | 100   | µs   | 35.3, 35.4, 36.3, 36.4 |
| t <sub>ENx_FALLING_PD</sub>    | Disabled propagation delay                                               | ENx low to SW high impedance                                           |  |       | 9.5    | 35    |      | 35.5, 35.6, 36.5, 36.6 |
| I <sub>ENx_LKG</sub>           | Enable input leakage current                                             | V <sub>ENx</sub> = 7V                                                  |  |       | 0.05   | 154   | nA   | 34.8, 34.9             |
| VOLTAGE REFERENCE              |                                                                          |                                                                        |  |       |        |       |      |                        |
| V <sub>REFx</sub>              | Internal voltage reference (including error amplifier V <sub>IOx</sub> ) | T <sub>A</sub> = 25°C                                                  |  | 591.5 | 599.48 | 603.5 | mV   | 21.4, 21.5, 22.4, 22.5 |
| V <sub>REFCAP</sub>            | REFCAP voltage                                                           |                                                                        |  | 1.2   | 1.235  | 1.248 | V    | 21.1, 22.1             |

**Table 3-1. Specification Compliance Matrix (continued)**

| Parameter                               |                                                         | Test Conditions                                                                          |                       | MIN  | TYP  | MAX   | UNIT       | Test Number                        |
|-----------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------|------|------|-------|------------|------------------------------------|
| ERROR AMPLIFIER                         |                                                         |                                                                                          |                       |      |      |       |            |                                    |
| I <sub>VSNSx_LKG</sub>                  | VSNSx input leakage current                             | VSNSx = 600mV, V <sub>COMP</sub> = 1V                                                    |                       | 30   |      |       | nA         | 38.1 to 38.2, 39.1, 39.2           |
| gm <sub>EAx</sub>                       | Error amplifier transconductance                        | -10μA < I <sub>COMP</sub> < 10μA, V <sub>COMP</sub> = 1V                                 | T <sub>A</sub> = 25°C | 1153 | 1672 | 2191  | μS         | 38.9, 38.10, 39.9, 39.10           |
| EA <sub>x_ISRC</sub>                    | Error amplifier source                                  | V <sub>COMP</sub> = 1V, ± 100mV input overdrive                                          |                       | 88   | 137  | 200   | μA         | 38.5, 38.6, 39.5, 39.6             |
| EA <sub>x_ISNK</sub>                    | Error amplifier sink                                    |                                                                                          |                       | 87   | 135  | 200   |            | 38.7, 38.8, 39.7, 39.8             |
| gm <sub>PSx</sub>                       | Power stage transconductance                            | V <sub>COMPx</sub> = 500mV                                                               |                       | 5.78 | 8.35 | 10.46 | S          | 68.9, 68.1, 69.9, 69.1             |
| gm <sub>PSx_MATCHING</sub>              | Power stage transconductance matching across all phases | V <sub>COMPx</sub> = 500mV                                                               |                       | 1%   |      |       |            | 68.11, 68.12, 69.11, 69.13,        |
| OVERCURRENT PROTECTION                  |                                                         |                                                                                          |                       |      |      |       |            |                                    |
| I <sub>OC_HSx</sub>                     | High-side switch overcurrent threshold                  | Slew rate = 25mA/μs                                                                      |                       | 5.0  | 5.6  | 6.3   | A          | 26.2, 26.3, 27.2, 27.3             |
| I <sub>OC_LS_SOURCINGx</sub>            | Low-side switch overcurrent sourcing threshold          |                                                                                          |                       | 4.2  | 6    | 7.8   | A          | 28.2, 28.3, 29.2, 29.3             |
| I <sub>OC_LS_SINKINGx</sub>             | Low-side switch overcurrent sinking threshold           |                                                                                          |                       | 1.5  | 2.55 | 3.9   | A          | 28.4, 28.5, 77.4, 77.5, 29.4, 29.5 |
| COMPx <sub>CLAMP</sub>                  | COMP voltage clamp                                      |                                                                                          |                       | 1.7  | 1.9  | 2.13  | V          | 40.7, 40.8, 41.7, 41.8             |
| SOFT START AND TRACKING                 |                                                         |                                                                                          |                       |      |      |       |            |                                    |
| I <sub>SS_TRx</sub>                     | Soft start charge current                               | V <sub>SS_TRx</sub> ≥ 90mV                                                               |                       | 1.4  | 2.28 | 2.83  | μA         | 40.1, 40.2, 41.1, 41.2             |
| R <sub>SS_TRx_DISCHARGE</sub>           | Soft start discharge pull-down resistor                 | V <sub>SS_TRx</sub> = 110mV                                                              |                       | 230  | 364  | 513   | Ω          | 40.3, 40.4, 41.3, 41.4             |
| SS_TRx <sub>START_UP</sub>              | Maximum voltage on SS before startup                    |                                                                                          |                       |      | 22   | 50    | mV         | 40.5, 40.6, 41.5, 41.6             |
| MINIMUM ON, OFF, AND DEAD TIME          |                                                         |                                                                                          |                       |      |      |       |            |                                    |
| t <sub>ONx_MIN</sub>                    | Minimum on time                                         | 10% of rising edge to 90% of falling edge of V <sub>SWx</sub> , I <sub>OUT</sub> = 400mA | V <sub>IN</sub> = 3V  | 163  | 260  | ns    | 45.1, 45.2 |                                    |
|                                         |                                                         |                                                                                          | V <sub>IN</sub> = 5V  | 182  | 270  |       | 46.1, 46.2 |                                    |
|                                         |                                                         |                                                                                          | V <sub>IN</sub> = 7V  | 216  | 320  |       | 47.1, 47.2 |                                    |
| SWITCHING FREQUENCY AND SYNCHRONIZATION |                                                         |                                                                                          |                       |      |      |       |            |                                    |
| f <sub>SW</sub>                         | RT programmed switching frequency                       | RRT = 511kΩ                                                                              |                       | 97   | 103  | 120   | kHz        | 32.2, 75.2                         |
|                                         |                                                         | RRT = 90.9kΩ                                                                             |                       | 446  | 502  | 564   |            | 32.3, 75.3                         |
|                                         |                                                         | RRT = 37.4kΩ                                                                             |                       | 812  | 1040 | 1280  |            | 32.4, 75.4                         |
| t <sub>SYNC_DLY</sub>                   | SYNC to SW delay                                        | V <sub>IN</sub> = 3V                                                                     |                       |      | 221  | 314   | ns         | 72.7, 72.8                         |

**Table 3-1. Specification Compliance Matrix (continued)**

| Parameter                  |                                                 | Test Conditions                                                   |                       | MIN  |     | TYP  |     | MAX                 |                            | UNIT       | Test Number              |
|----------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------|------|-----|------|-----|---------------------|----------------------------|------------|--------------------------|
| t <sub>SYNC_DLY</sub>      | SYNC to SW delay                                | V <sub>IN</sub> = 5V                                              |                       |      | 194 |      | 240 |                     | ns                         | 73.1, 73.2 |                          |
| t <sub>SYNC_DLY</sub>      | SYNC to SW delay                                | V <sub>IN</sub> = 7V                                              |                       |      | 184 |      | 238 |                     | ns                         | 74.7, 74.8 |                          |
| V <sub>SYNC_VIH</sub>      | SYNC input high                                 | V <sub>IN</sub> = 3V                                              |                       | 1.4  |     |      |     | V                   | 72.9                       |            |                          |
|                            |                                                 | V <sub>IN</sub> = 5V                                              |                       | 1.8  |     |      |     |                     | 73.3                       |            |                          |
|                            |                                                 | V <sub>IN</sub> = 7V                                              |                       | 2    |     |      |     |                     | 74.9                       |            |                          |
| V <sub>SYNC_VIL</sub>      | SYNC input low                                  |                                                                   |                       | 0.8  |     |      |     | V                   | 72.1, 74.1                 |            |                          |
| DSYNC                      | SYNC input duty cycle range                     | external clock duty cycle                                         |                       | 40%  |     | 60%  |     |                     | 72.13, 74.13               |            |                          |
| t <sub>CLK_I_E</sub>       | Internal clock to external clock detection time |                                                                   |                       | 1    |     | 3    |     | × T <sub>SW</sub>   | 72.18, 74.18               |            |                          |
| t <sub>CLK_E_I</sub>       | External clock to internal clock detection time | RT populated                                                      |                       | 2    |     | 6    |     | × T <sub>SYNC</sub> | 72.14, 72.15, 74.14, 74.15 |            |                          |
| POWER GOOD                 |                                                 |                                                                   |                       |      |     |      |     |                     |                            |            |                          |
| PWRGD <sub>XUV_FAULT</sub> | V <sub>SENSE</sub> falling threshold (fault)    |                                                                   |                       | 89%  |     | 91%  |     | 92%                 |                            |            | 30.3, 30.4, 31.3, 31.4   |
| PWRGD <sub>XUV_GOOD</sub>  | V <sub>SENSE</sub> rising threshold (good)      |                                                                   |                       | 92%  |     | 94%  |     | 96%                 |                            |            | 30.5, 30.6, 31.5, 31.6   |
| PWRGD <sub>XOV_FAULT</sub> | V <sub>SENSE</sub> rising threshold (fault)     |                                                                   |                       | 107% |     | 109% |     | 111%                |                            |            | 30.7, 30.8, 31.7, 31.8   |
| PWRGD <sub>XOV_GOOD</sub>  | V <sub>SENSE</sub> falling threshold (good)     |                                                                   |                       | 103% |     | 106% |     | 109%                |                            |            | 30.9, 30.10, 31.9, 31.10 |
| I <sub>PWRGDx_LKG</sub>    | Output open high leakage                        | V <sub>SENSEx</sub> = V <sub>REFx</sub> , V <sub>PWRGD</sub> = 7V |                       | 2    |     | 520  |     | nA                  | 31.11, 31.12               |            |                          |
| V <sub>PWRGDx_VOL</sub>    | Power good output low                           | I <sub>PWRGD_SINK</sub> ≤ 2mA                                     |                       | 310  |     | 400  |     | mV                  | 30.1, 30.2, 31.1, 31.2     |            |                          |
| V <sub>IN_MIN_PWRGDx</sub> | Minimum VIN for valid PWRGD output              | Measured when V <sub>PWRGD</sub> ≤ 0.5V at 100μA                  |                       | 0.6  |     | 1    |     | V                   | 30.13, 30.14               |            |                          |
| MOSFET                     |                                                 |                                                                   |                       |      |     |      |     |                     |                            |            |                          |
| R <sub>DS_ON_HSx</sub>     | High-side switch resistance                     | PVIN = VIN = 3V, I <sub>OUTx</sub> = 500mA                        | T <sub>A</sub> = 25°C | 70   |     | 88   |     | mΩ                  | 48.1 to 48.2               |            |                          |
|                            |                                                 | PVIN = VIN = 5V, I <sub>OUTx</sub> = 500mA                        | T <sub>A</sub> = 25°C | 62   |     | 80   |     |                     | 49.1 to 49.2               |            |                          |
|                            |                                                 | PVIN = VIN = 7V, I <sub>OUTx</sub> = 500mA                        | T <sub>A</sub> = 25°C | 59   |     | 76   |     |                     | 50.1 to 50.2               |            |                          |
| R <sub>DS_ON_LSx</sub>     | Low-side switch resistance                      | PVIN = VIN = 3V, I <sub>OUTx</sub> = 500mA                        | T <sub>A</sub> = 25°C | 58   |     | 68   |     | mΩ                  | 51.1 to 51.2               |            |                          |
|                            |                                                 | PVIN = VIN = 5V, I <sub>OUTx</sub> = 500mA                        | T <sub>A</sub> = 25°C | 55   |     | 64   |     |                     | 52.1 to 52.2               |            |                          |
|                            |                                                 | PVIN = VIN = 7V, I <sub>OUTx</sub> = 500mA                        | T <sub>A</sub> = 25°C | 54   |     | 63   |     |                     | 53.1 to 53.2               |            |                          |

## 4 Applicable and Reference Documents

### 4.1 Applicable Documents

- Texas Instruments, [TPS7H410x-SP Radiation-Hardeness-Assured, 3V to 7V Input , 3A/Channel, Multichannel Synchronous Buck Converter](#), data sheet

### 4.2 Reference Documents

Texas Instruments neutron irradiation test follow the guideline from MIL-STD-883 TM 1017. The document is available in Defense Logistic Agency's website.



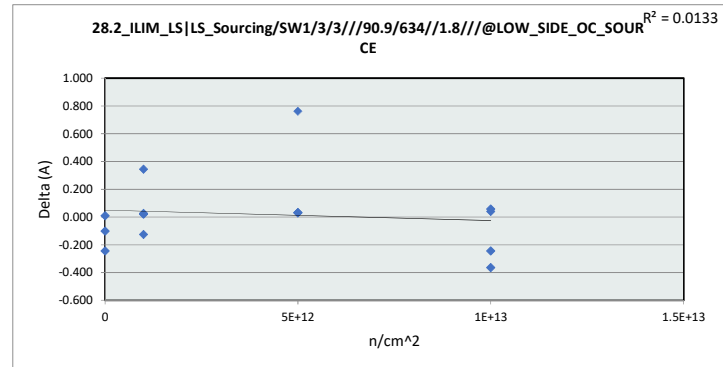
## A Appendix: NDD Report Data

This appendix contains the NDD report data.

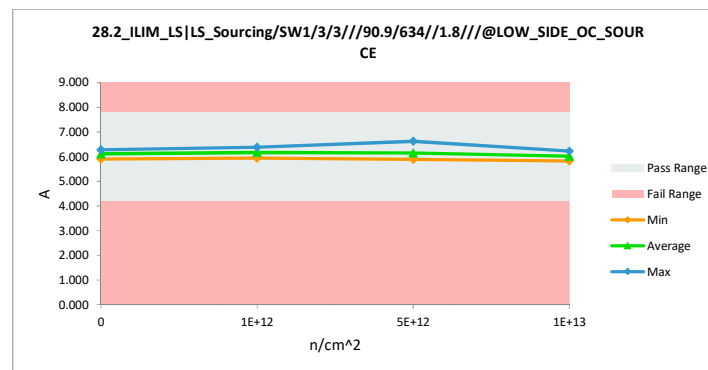
**NDD Report**  
**TPS7H4102-SP**

## NDD Report TPS7H4102-SP

| 28.2_ILIM_LS LS_Sourcing/SW1/3/3///90.9/634//1.8///@LOW_SIDE_OC_SOUR |          |                     |                    |        |
|----------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                            |          |                     |                    |        |
| Tester                                                               |          |                     |                    |        |
| Test Number                                                          |          |                     |                    |        |
| Unit                                                                 | A        |                     | A                  |        |
| Max Limit                                                            | 7.8      |                     | 7.792              |        |
| Min Limit                                                            | 4.2      |                     | 4.208              |        |
| n/cm <sup>2</sup>                                                    | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                    | 1        | 6.148               | 5.904              | -0.245 |
| 0                                                                    | 2        | 6.263               | 6.161              | -0.103 |
| 0                                                                    | 3        | 6.271               | 6.279              | 0.008  |
| 1E+12                                                                | 30       | 5.925               | 6.269              | 0.344  |
| 1E+12                                                                | 31       | 6.068               | 5.941              | -0.127 |
| 1E+12                                                                | 32       | 6.069               | 6.089              | 0.021  |
| 1E+12                                                                | 33       | 6.356               | 6.381              | 0.025  |
| 5E+12                                                                | 34       | 6.101               | 6.133              | 0.032  |
| 5E+12                                                                | 35       | 5.918               | 5.946              | 0.028  |
| 5E+12                                                                | 36       | 5.861               | 5.891              | 0.031  |
| 5E+12                                                                | 37       | 5.863               | 6.624              | 0.761  |
| 1E+13                                                                | 38       | 6.038               | 6.095              | 0.056  |
| 1E+13                                                                | 39       | 6.191               | 5.826              | -0.365 |
| 1E+13                                                                | 40       | 6.194               | 5.948              | -0.245 |
| 1E+13                                                                | 41       | 6.191               | 6.231              | 0.039  |
|                                                                      | Max      | 6.356               | 6.624              | 0.761  |
|                                                                      | Average  | 6.097               | 6.115              | 0.017  |
|                                                                      | Min      | 5.861               | 5.826              | -0.365 |
|                                                                      | Std Dev  | 0.154               | 0.218              | 0.265  |

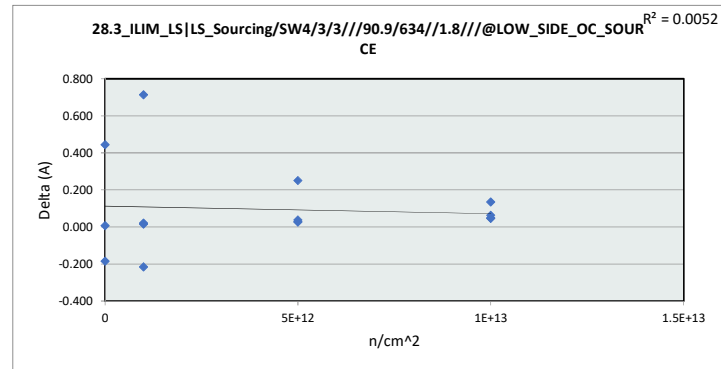


| 28.2_ILIM_LS LS_Sourcing/SW1/3/3///90.9/634//1.8///@LOW_SIDE_OC_SOUR |       |       |       |       |
|----------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                            |       |       |       |       |
| Tester                                                               |       |       |       |       |
| Test Number                                                          |       |       |       |       |
| Max Limit                                                            | 7.792 |       | A     |       |
| Min Limit                                                            | 4.208 |       | A     |       |
| n/cm <sup>2</sup>                                                    | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                                   | 4.208 | 4.208 | 4.208 | 4.208 |
| Min                                                                  | 5.904 | 5.941 | 5.892 | 5.826 |
| Average                                                              | 6.114 | 6.170 | 6.149 | 6.025 |
| Max                                                                  | 6.279 | 6.382 | 6.624 | 6.231 |
| UL                                                                   | 7.792 | 7.792 | 7.792 | 7.792 |

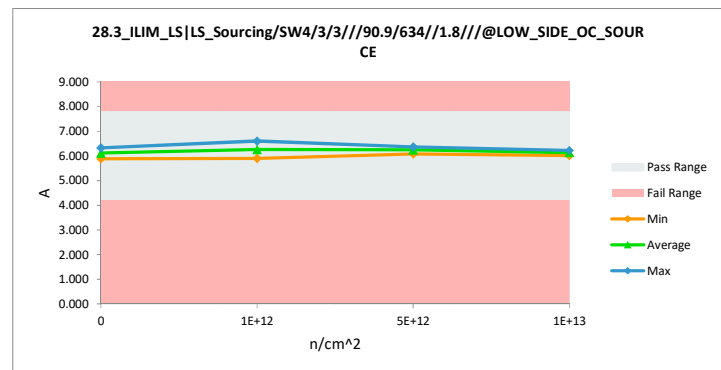


## NDD Report TPS7H4102-SP

| 28.3_ILIM_LS LS_Sourcing/SW4/3/3///90.9/634//1.8///@LOW_SIDE_OC_SOUR |          |                     |                    |        |
|----------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                            |          |                     |                    |        |
| Tester                                                               |          |                     |                    |        |
| Test Number                                                          |          |                     |                    |        |
| Unit                                                                 | A        |                     | A                  |        |
| Max Limit                                                            | 7.8      |                     | 7.792              |        |
| Min Limit                                                            | 4.2      |                     | 4.208              |        |
| n/cm^2                                                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                    | 1        | 6.319               | 6.134              | -0.185 |
| 0                                                                    | 2        | 5.881               | 6.324              | 0.443  |
| 0                                                                    | 3        | 5.881               | 5.887              | 0.006  |
| 1E+12                                                                | 30       | 5.894               | 6.607              | 0.713  |
| 1E+12                                                                | 31       | 6.115               | 5.899              | -0.216 |
| 1E+12                                                                | 32       | 6.111               | 6.126              | 0.015  |
| 1E+12                                                                | 33       | 6.399               | 6.419              | 0.020  |
| 5E+12                                                                | 34       | 6.334               | 6.364              | 0.030  |
| 5E+12                                                                | 35       | 6.189               | 6.226              | 0.037  |
| 5E+12                                                                | 36       | 6.057               | 6.082              | 0.025  |
| 5E+12                                                                | 37       | 6.056               | 6.307              | 0.250  |
| 1E+13                                                                | 38       | 5.969               | 6.014              | 0.046  |
| 1E+13                                                                | 39       | 6.086               | 6.221              | 0.135  |
| 1E+13                                                                | 40       | 6.084               | 6.132              | 0.048  |
| 1E+13                                                                | 41       | 6.089               | 6.152              | 0.063  |
|                                                                      | Max      | 6.399               | 6.607              | 0.713  |
|                                                                      | Average  | 6.098               | 6.193              | 0.095  |
|                                                                      | Min      | 5.881               | 5.887              | -0.216 |
|                                                                      | Std Dev  | 0.160               | 0.193              | 0.230  |

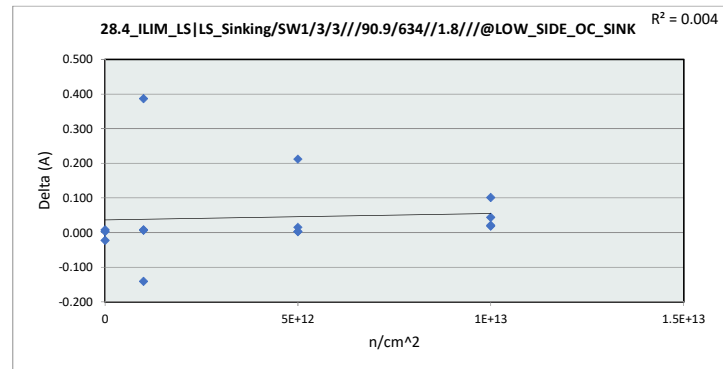


| 28.3_ILIM_LS LS_Sourcing/SW4/3/3///90.9/634//1.8///@LOW_SIDE_OC_SOUR |       |       |       |       |
|----------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                            |       |       |       |       |
| Tester                                                               |       |       |       |       |
| Test Number                                                          |       |       |       |       |
| Max Limit                                                            | 7.792 |       | A     |       |
| Min Limit                                                            | 4.208 |       | A     |       |
| n/cm^2                                                               | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                                   | 4.208 | 4.208 | 4.208 | 4.208 |
| Min                                                                  | 5.887 | 5.899 | 6.082 | 6.014 |
| Average                                                              | 6.115 | 6.263 | 6.245 | 6.130 |
| Max                                                                  | 6.324 | 6.607 | 6.364 | 6.221 |
| UL                                                                   | 7.792 | 7.792 | 7.792 | 7.792 |

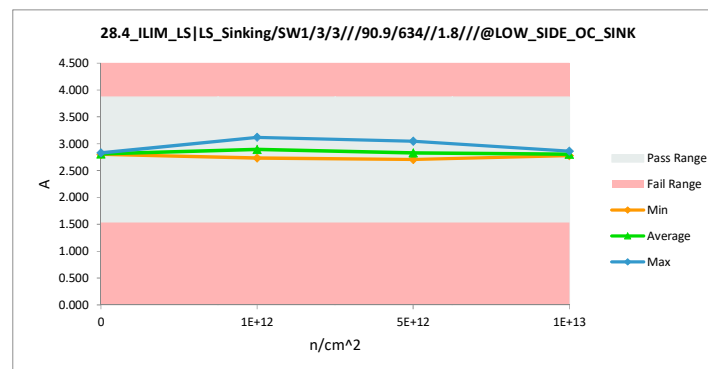


## NDD Report TPS7H4102-SP

| 28.4_ILIM_LS LS_Sinking/SW1/3/3//90.9/634//1.8///@LOW_SIDE_OC_SINK |          |                     |                    |        |
|--------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                          |          |                     |                    |        |
| Tester                                                             |          |                     |                    |        |
| Test Number                                                        |          |                     |                    |        |
| Unit                                                               | A        |                     | A                  |        |
| Max Limit                                                          | 3.9      |                     | 3.867              |        |
| Min Limit                                                          | 1.5      |                     | 1.533              |        |
| n/cm <sup>2</sup>                                                  | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                  | 1        | 2.799               | 2.807              | 0.008  |
| 0                                                                  | 2        | 2.824               | 2.801              | -0.023 |
| 0                                                                  | 3        | 2.825               | 2.828              | 0.004  |
| 1E+12                                                              | 30       | 2.733               | 3.119              | 0.387  |
| 1E+12                                                              | 31       | 2.874               | 2.732              | -0.141 |
| 1E+12                                                              | 32       | 2.872               | 2.878              | 0.006  |
| 1E+12                                                              | 33       | 2.842               | 2.850              | 0.008  |
| 5E+12                                                              | 34       | 2.704               | 2.707              | 0.003  |
| 5E+12                                                              | 35       | 2.706               | 2.721              | 0.015  |
| 5E+12                                                              | 36       | 2.834               | 2.837              | 0.002  |
| 5E+12                                                              | 37       | 2.836               | 3.048              | 0.212  |
| 1E+13                                                              | 38       | 2.758               | 2.779              | 0.021  |
| 1E+13                                                              | 39       | 2.758               | 2.802              | 0.044  |
| 1E+13                                                              | 40       | 2.759               | 2.861              | 0.102  |
| 1E+13                                                              | 41       | 2.760               | 2.778              | 0.018  |
|                                                                    | Max      | 2.874               | 3.119              | 0.387  |
|                                                                    | Average  | 2.792               | 2.837              | 0.044  |
|                                                                    | Min      | 2.704               | 2.707              | -0.141 |
|                                                                    | Std Dev  | 0.056               | 0.113              | 0.119  |

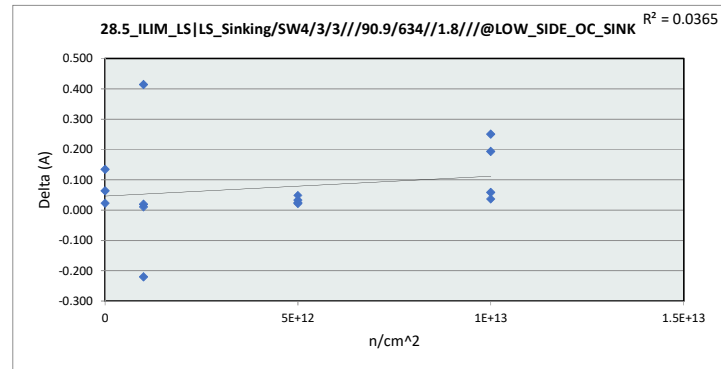


| 28.4_ILIM_LS LS_Sinking/SW1/3/3//90.9/634//1.8///@LOW_SIDE_OC_SINK |       |       |       |       |
|--------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                          |       |       |       |       |
| Tester                                                             |       |       |       |       |
| Test Number                                                        |       |       |       |       |
| Max Limit                                                          | 3.867 |       | A     |       |
| Min Limit                                                          | 1.533 |       | A     |       |
| n/cm <sup>2</sup>                                                  | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                                 | 1.533 | 1.533 | 1.533 | 1.533 |
| Min                                                                | 2.801 | 2.732 | 2.707 | 2.778 |
| Average                                                            | 2.812 | 2.895 | 2.828 | 2.805 |
| Max                                                                | 2.828 | 3.119 | 3.048 | 2.861 |
| UL                                                                 | 3.867 | 3.867 | 3.867 | 3.867 |

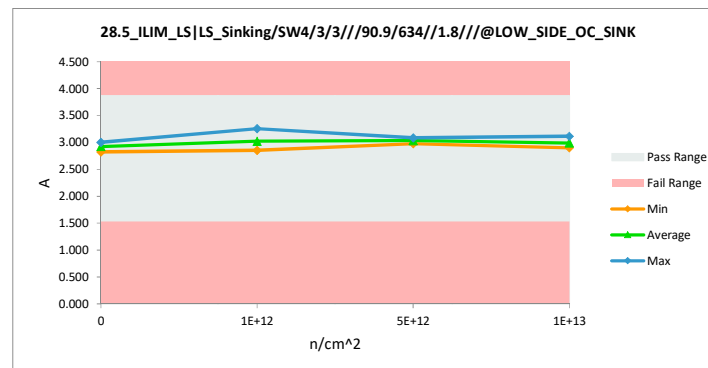


## NDD Report TPS7H4102-SP

| 28.5_ILIM_LS LS_Sinking/SW4/3/3//90.9/634//1.8///@LOW_SIDE_OC_SINK |          |                     |                    |        |
|--------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                          |          |                     |                    |        |
| Tester                                                             |          |                     |                    |        |
| Test Number                                                        |          |                     |                    |        |
| Unit                                                               | A        |                     | A                  |        |
| Max Limit                                                          | 3.9      |                     | 3.867              |        |
| Min Limit                                                          | 1.5      |                     | 1.533              |        |
| n/cm^2                                                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                  | 1        | 2.939               | 3.003              | 0.064  |
| 0                                                                  | 2        | 2.806               | 2.940              | 0.134  |
| 0                                                                  | 3        | 2.803               | 2.826              | 0.023  |
| 1E+12                                                              | 30       | 2.842               | 3.257              | 0.414  |
| 1E+12                                                              | 31       | 3.074               | 2.853              | -0.220 |
| 1E+12                                                              | 32       | 3.073               | 3.084              | 0.010  |
| 1E+12                                                              | 33       | 2.878               | 2.898              | 0.020  |
| 5E+12                                                              | 34       | 2.950               | 2.975              | 0.025  |
| 5E+12                                                              | 35       | 2.977               | 3.009              | 0.033  |
| 5E+12                                                              | 36       | 3.047               | 3.068              | 0.021  |
| 5E+12                                                              | 37       | 3.039               | 3.088              | 0.049  |
| 1E+13                                                              | 38       | 2.863               | 2.899              | 0.037  |
| 1E+13                                                              | 39       | 2.851               | 3.045              | 0.194  |
| 1E+13                                                              | 40       | 2.867               | 3.117              | 0.250  |
| 1E+13                                                              | 41       | 2.851               | 2.909              | 0.058  |
|                                                                    | Max      | 3.074               | 3.257              | 0.414  |
|                                                                    | Average  | 2.924               | 2.998              | 0.074  |
|                                                                    | Min      | 2.803               | 2.826              | -0.220 |
|                                                                    | Std Dev  | 0.097               | 0.115              | 0.139  |

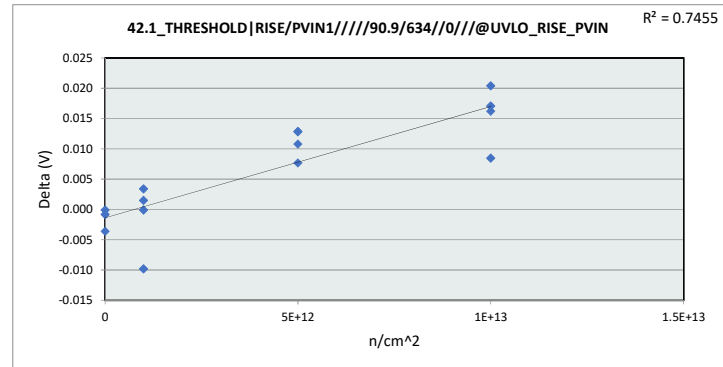


| 28.5_ILIM_LS LS_Sinking/SW |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 3.867 |       | A     |       |
| Min Limit                  | 1.533 |       | A     |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 1.533 | 1.533 | 1.533 | 1.533 |
| Min                        | 2.826 | 2.853 | 2.975 | 2.899 |
| Average                    | 2.923 | 3.023 | 3.035 | 2.992 |
| Max                        | 3.003 | 3.257 | 3.088 | 3.117 |
| UL                         | 3.867 | 3.867 | 3.867 | 3.867 |

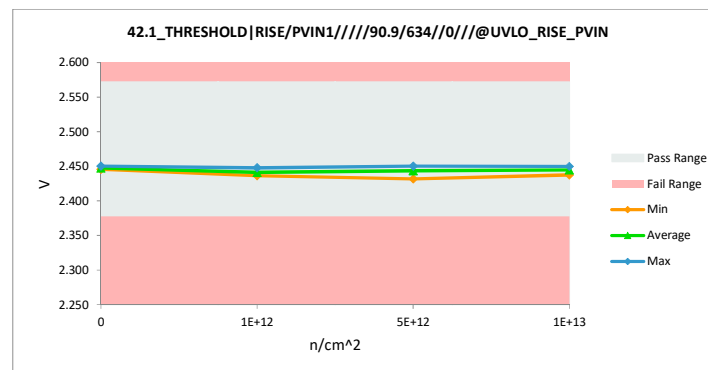


## NDD Report TPS7H4102-SP

| 42.1_THRESHOLD RISE/PVIN1/////90.9 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | V        |                     | V                  |        |
| Max Limit                          | 2.58     |                     | 2.572              |        |
| Min Limit                          | 2.37     |                     | 2.378              |        |
| n/cm <sup>2</sup>                  | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 2.447               | 2.446              | -0.001 |
| 0                                  | 2        | 2.450               | 2.446              | -0.004 |
| 0                                  | 3        | 2.451               | 2.450              | 0.000  |
| 1E+12                              | 30       | 2.436               | 2.440              | 0.003  |
| 1E+12                              | 31       | 2.446               | 2.436              | -0.010 |
| 1E+12                              | 32       | 2.446               | 2.448              | 0.001  |
| 1E+12                              | 33       | 2.442               | 2.442              | 0.000  |
| 5E+12                              | 34       | 2.419               | 2.432              | 0.013  |
| 5E+12                              | 35       | 2.433               | 2.446              | 0.013  |
| 5E+12                              | 36       | 2.439               | 2.450              | 0.011  |
| 5E+12                              | 37       | 2.439               | 2.447              | 0.008  |
| 1E+13                              | 38       | 2.433               | 2.450              | 0.017  |
| 1E+13                              | 39       | 2.429               | 2.438              | 0.009  |
| 1E+13                              | 40       | 2.428               | 2.445              | 0.016  |
| 1E+13                              | 41       | 2.427               | 2.447              | 0.020  |
|                                    | Max      | 2.451               | 2.450              | 0.020  |
|                                    | Average  | 2.438               | 2.444              | 0.006  |
|                                    | Min      | 2.419               | 2.432              | -0.010 |
|                                    | Std Dev  | 0.009               | 0.006              | 0.009  |

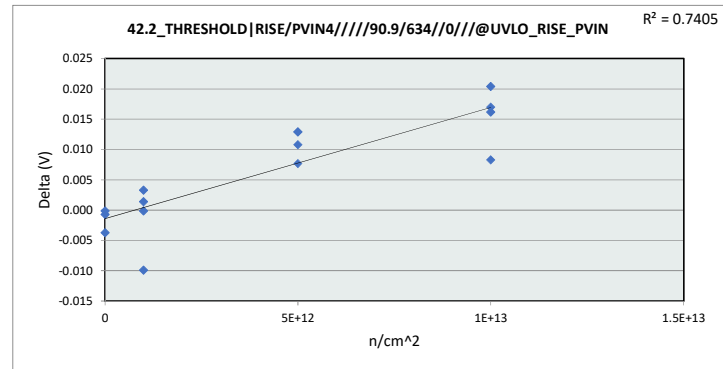


| 42.1_THRESHOLD RISE/PVIN1 |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 2.572 |       | V     |       |
| Min Limit                 | 2.378 |       | V     |       |
| n/cm <sup>2</sup>         | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 2.378 | 2.378 | 2.378 | 2.378 |
| Min                       | 2.446 | 2.436 | 2.432 | 2.438 |
| Average                   | 2.448 | 2.441 | 2.444 | 2.445 |
| Max                       | 2.450 | 2.448 | 2.450 | 2.450 |
| UL                        | 2.572 | 2.572 | 2.572 | 2.572 |

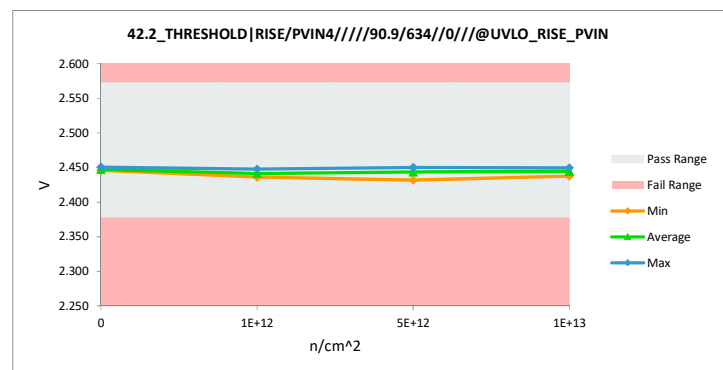


## NDD Report TPS7H4102-SP

| 42.2_THRESHOLD RISE/PVIN4/////90.9 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | V        |                     | V                  |        |
| Max Limit                          | 2.58     |                     | 2.572              |        |
| Min Limit                          | 2.37     |                     | 2.378              |        |
| n/cm <sup>2</sup>                  | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 2.447               | 2.446              | -0.001 |
| 0                                  | 2        | 2.450               | 2.446              | -0.004 |
| 0                                  | 3        | 2.451               | 2.450              | 0.000  |
| 1E+12                              | 30       | 2.436               | 2.439              | 0.003  |
| 1E+12                              | 31       | 2.446               | 2.436              | -0.010 |
| 1E+12                              | 32       | 2.446               | 2.448              | 0.001  |
| 1E+12                              | 33       | 2.442               | 2.442              | 0.000  |
| 5E+12                              | 34       | 2.419               | 2.432              | 0.013  |
| 5E+12                              | 35       | 2.433               | 2.446              | 0.013  |
| 5E+12                              | 36       | 2.439               | 2.450              | 0.011  |
| 5E+12                              | 37       | 2.439               | 2.447              | 0.008  |
| 1E+13                              | 38       | 2.433               | 2.450              | 0.017  |
| 1E+13                              | 39       | 2.429               | 2.438              | 0.008  |
| 1E+13                              | 40       | 2.428               | 2.445              | 0.016  |
| 1E+13                              | 41       | 2.427               | 2.447              | 0.020  |
|                                    | Max      | 2.451               | 2.450              | 0.020  |
|                                    | Average  | 2.438               | 2.444              | 0.006  |
|                                    | Min      | 2.419               | 2.432              | -0.010 |
|                                    | Std Dev  | 0.009               | 0.006              | 0.009  |



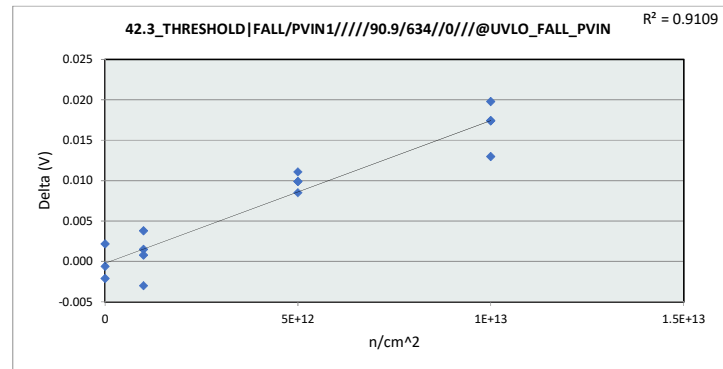
| 42.2_THRESHOLD RISE/PVIN4 |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 2.572 |       | V     |       |
| Min Limit                 | 2.378 |       | V     |       |
| n/cm <sup>2</sup>         | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 2.378 | 2.378 | 2.378 | 2.378 |
| Min                       | 2.446 | 2.436 | 2.432 | 2.438 |
| Average                   | 2.447 | 2.441 | 2.444 | 2.445 |
| Max                       | 2.450 | 2.448 | 2.450 | 2.450 |
| UL                        | 2.572 | 2.572 | 2.572 | 2.572 |



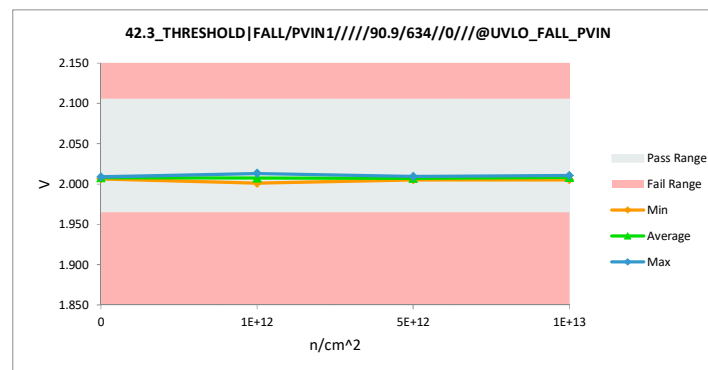


## NDD Report TPS7H4102-SP

| 42.3_THRESHOLD FALL/PVIN1/////90.9 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | V        |                     | V                  |        |
| Max Limit                          | 2.11     |                     | 2.105              |        |
| Min Limit                          | 1.96     |                     | 1.965              |        |
| n/cm <sup>2</sup>                  | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 2.010               | 2.008              | -0.002 |
| 0                                  | 2        | 2.007               | 2.009              | 0.002  |
| 0                                  | 3        | 2.007               | 2.007              | -0.001 |
| 1E+12                              | 30       | 2.008               | 2.005              | -0.003 |
| 1E+12                              | 31       | 2.010               | 2.010              | 0.001  |
| 1E+12                              | 32       | 2.009               | 2.013              | 0.004  |
| 1E+12                              | 33       | 2.000               | 2.001              | 0.002  |
| 5E+12                              | 34       | 1.998               | 2.007              | 0.008  |
| 5E+12                              | 35       | 2.000               | 2.009              | 0.010  |
| 5E+12                              | 36       | 1.995               | 2.005              | 0.010  |
| 5E+12                              | 37       | 1.995               | 2.006              | 0.011  |
| 1E+13                              | 38       | 1.991               | 2.010              | 0.020  |
| 1E+13                              | 39       | 1.992               | 2.005              | 0.013  |
| 1E+13                              | 40       | 1.990               | 2.007              | 0.017  |
| 1E+13                              | 41       | 1.992               | 2.010              | 0.017  |
| Max                                |          | 2.010               | 2.013              | 0.020  |
| Average                            |          | 2.000               | 2.008              | 0.007  |
| Min                                |          | 1.990               | 2.001              | -0.003 |
| Std Dev                            |          | 0.008               | 0.003              | 0.008  |

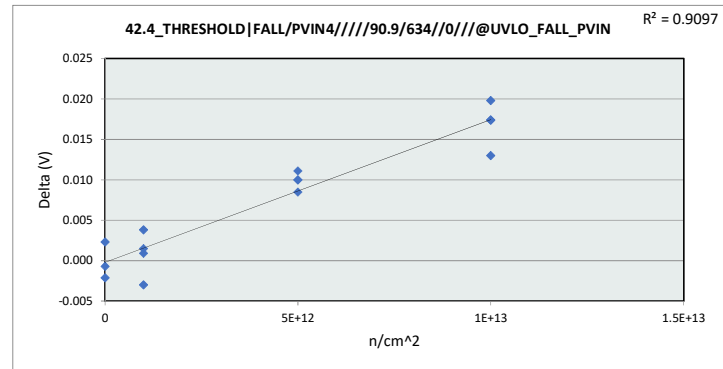


| 42.3_THRESHOLD FALL/PVIN1 |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 2.105 |       | V     |       |
| Min Limit                 | 1.965 |       | V     |       |
| n/cm <sup>2</sup>         | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 1.965 | 1.965 | 1.965 | 1.965 |
| Min                       | 2.007 | 2.001 | 2.005 | 2.005 |
| Average                   | 2.008 | 2.008 | 2.007 | 2.008 |
| Max                       | 2.009 | 2.013 | 2.009 | 2.011 |
| UL                        | 2.105 | 2.105 | 2.105 | 2.105 |

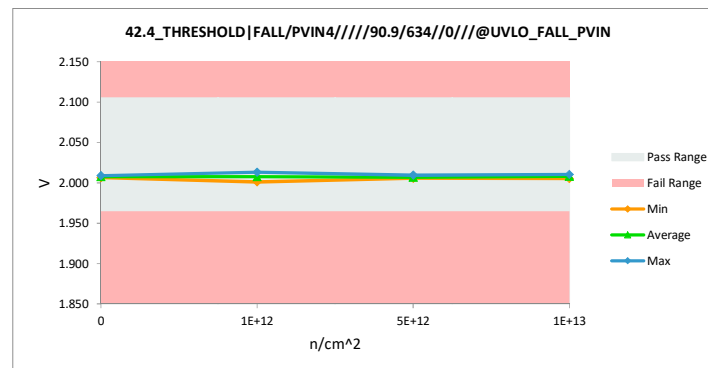


## NDD Report TPS7H4102-SP

| 42.4_THRESHOLD FALL/PVIN4/////90.9 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | V        |                     | V                  |        |
| Max Limit                          | 2.11     |                     | 2.105              |        |
| Min Limit                          | 1.96     |                     | 1.965              |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 2.010               | 2.008              | -0.002 |
| 0                                  | 2        | 2.007               | 2.009              | 0.002  |
| 0                                  | 3        | 2.007               | 2.007              | -0.001 |
| 1E+12                              | 30       | 2.008               | 2.005              | -0.003 |
| 1E+12                              | 31       | 2.010               | 2.010              | 0.001  |
| 1E+12                              | 32       | 2.009               | 2.013              | 0.004  |
| 1E+12                              | 33       | 2.000               | 2.001              | 0.002  |
| 5E+12                              | 34       | 1.998               | 2.007              | 0.008  |
| 5E+12                              | 35       | 2.000               | 2.010              | 0.010  |
| 5E+12                              | 36       | 1.995               | 2.006              | 0.010  |
| 5E+12                              | 37       | 1.995               | 2.006              | 0.011  |
| 1E+13                              | 38       | 1.991               | 2.010              | 0.020  |
| 1E+13                              | 39       | 1.992               | 2.005              | 0.013  |
| 1E+13                              | 40       | 1.990               | 2.007              | 0.017  |
| 1E+13                              | 41       | 1.992               | 2.010              | 0.017  |
|                                    | Max      | 2.010               | 2.013              | 0.020  |
|                                    | Average  | 2.000               | 2.008              | 0.007  |
|                                    | Min      | 1.990               | 2.001              | -0.003 |
|                                    | Std Dev  | 0.008               | 0.003              | 0.008  |

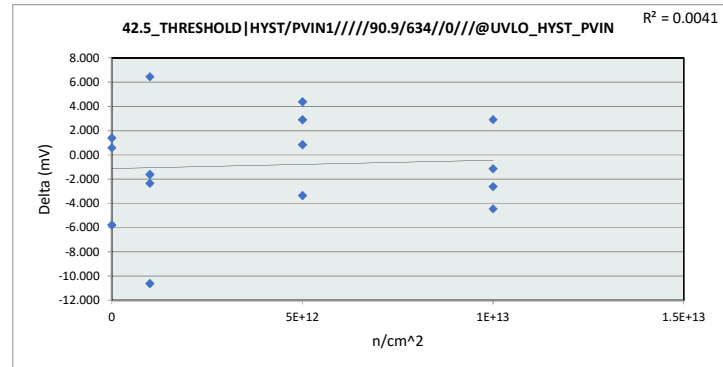


| 42.4_THRESHOLD FALL/PVIN4 |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 2.105 |       | V     |       |
| Min Limit                 | 1.965 |       | V     |       |
| n/cm^2                    | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 1.965 | 1.965 | 1.965 | 1.965 |
| Min                       | 2.007 | 2.001 | 2.006 | 2.005 |
| Average                   | 2.008 | 2.008 | 2.007 | 2.008 |
| Max                       | 2.009 | 2.013 | 2.010 | 2.011 |
| UL                        | 2.105 | 2.105 | 2.105 | 2.105 |

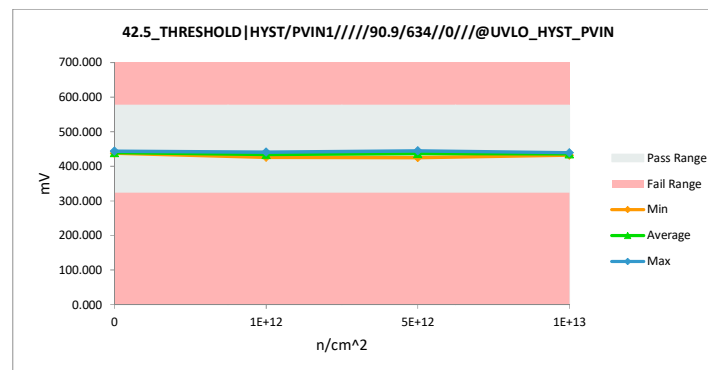


## NDD Report TPS7H4102-SP

| 42.5_THRESHOLD HYST/PVIN1////90.9 |          |                     |                    |         |
|-----------------------------------|----------|---------------------|--------------------|---------|
| Test Site                         |          |                     |                    |         |
| Tester                            |          |                     |                    |         |
| Test Number                       |          |                     |                    |         |
| Unit                              | mV       |                     | mV                 |         |
| Max Limit                         | 585      |                     | 576                |         |
| Min Limit                         | 315      |                     | 324                |         |
| n/cm <sup>2</sup>                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                 | 1        | 436.396             | 437.790            | 1.394   |
| 0                                 | 2        | 443.316             | 437.536            | -5.780  |
| 0                                 | 3        | 443.369             | 443.959            | 0.590   |
| 1E+12                             | 30       | 427.699             | 434.145            | 6.447   |
| 1E+12                             | 31       | 436.496             | 425.869            | -10.627 |
| 1E+12                             | 32       | 437.056             | 434.718            | -2.338  |
| 1E+12                             | 33       | 442.401             | 440.801            | -1.600  |
| 5E+12                             | 34       | 420.915             | 425.298            | 4.383   |
| 5E+12                             | 35       | 433.521             | 436.422            | 2.901   |
| 5E+12                             | 36       | 443.791             | 444.627            | 0.836   |
| 5E+12                             | 37       | 443.599             | 440.240            | -3.358  |
| 1E+13                             | 38       | 441.974             | 439.350            | -2.624  |
| 1E+13                             | 39       | 436.995             | 432.541            | -4.454  |
| 1E+13                             | 40       | 438.453             | 437.313            | -1.141  |
| 1E+13                             | 41       | 434.125             | 437.043            | 2.917   |
|                                   | Max      | 443.791             | 444.627            | 6.447   |
|                                   | Average  | 437.340             | 436.510            | -0.830  |
|                                   | Min      | 420.915             | 425.298            | -10.627 |
|                                   | Std Dev  | 6.495               | 5.535              | 4.343   |

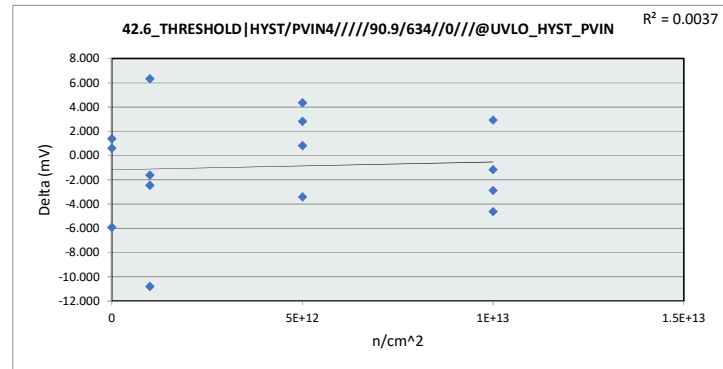


| 42.5_THRESHOLD HYST/PVIN |         |         |         |         |
|--------------------------|---------|---------|---------|---------|
| Test Site                |         |         |         |         |
| Tester                   |         |         |         |         |
| Test Number              |         |         |         |         |
| Max Limit                | 576     |         | mV      |         |
| Min Limit                | 324     |         | mV      |         |
| n/cm <sup>2</sup>        | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                       | 324.000 | 324.000 | 324.000 | 324.000 |
| Min                      | 437.537 | 425.869 | 425.298 | 432.541 |
| Average                  | 439.762 | 433.883 | 436.647 | 436.561 |
| Max                      | 443.959 | 440.801 | 444.627 | 439.350 |
| UL                       | 576.000 | 576.000 | 576.000 | 576.000 |

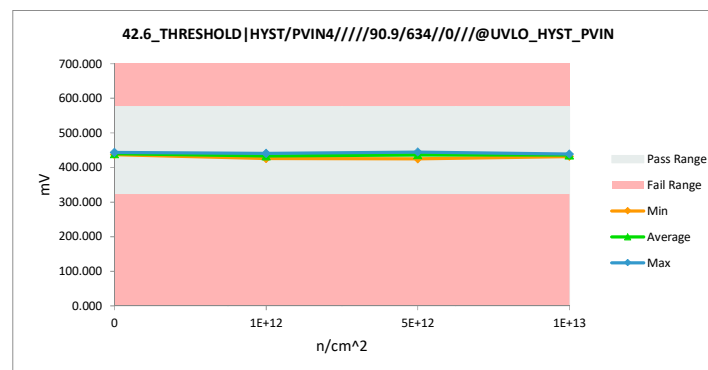


## NDD Report TPS7H4102-SP

| 42.6_THRESHOLD HYST/PVIN4////90.9 |          |                     |                    |         |
|-----------------------------------|----------|---------------------|--------------------|---------|
| Test Site                         |          |                     |                    |         |
| Tester                            |          |                     |                    |         |
| Test Number                       |          |                     |                    |         |
| Unit                              | mV       |                     | mV                 |         |
| Max Limit                         | 585      |                     | 576                |         |
| Min Limit                         | 315      |                     | 324                |         |
| n/cm <sup>2</sup>                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                 | 1        | 436.341             | 437.736            | 1.395   |
| 0                                 | 2        | 443.283             | 437.383            | -5.901  |
| 0                                 | 3        | 443.322             | 443.928            | 0.607   |
| 1E+12                             | 30       | 427.685             | 434.023            | 6.338   |
| 1E+12                             | 31       | 436.506             | 425.710            | -10.796 |
| 1E+12                             | 32       | 437.066             | 434.609            | -2.457  |
| 1E+12                             | 33       | 442.393             | 440.771            | -1.623  |
| 5E+12                             | 34       | 420.940             | 425.296            | 4.355   |
| 5E+12                             | 35       | 433.562             | 436.389            | 2.827   |
| 5E+12                             | 36       | 443.788             | 444.617            | 0.828   |
| 5E+12                             | 37       | 443.605             | 440.188            | -3.417  |
| 1E+13                             | 38       | 442.056             | 439.188            | -2.868  |
| 1E+13                             | 39       | 436.990             | 432.366            | -4.624  |
| 1E+13                             | 40       | 438.464             | 437.308            | -1.156  |
| 1E+13                             | 41       | 434.129             | 437.067            | 2.938   |
|                                   | Max      | 443.788             | 444.617            | 6.338   |
|                                   | Average  | 437.342             | 436.438            | -0.904  |
|                                   | Min      | 420.940             | 425.296            | -10.796 |
|                                   | Std Dev  | 6.490               | 5.556              | 4.385   |

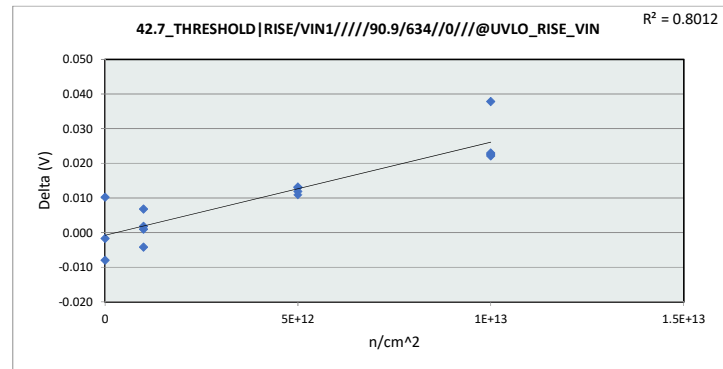


| 42.6_THRESHOLD HYST/PVIN4////90.9/634//0///@UVLO_HYST_PVIN |         |         |         |         |
|------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                  |         |         |         |         |
| Tester                                                     |         |         |         |         |
| Test Number                                                |         |         |         |         |
| Max Limit                                                  | 576     |         | mV      |         |
| Min Limit                                                  | 324     |         | mV      |         |
| n/cm <sup>2</sup>                                          | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                         | 324.000 | 324.000 | 324.000 | 324.000 |
| Min                                                        | 437.383 | 425.710 | 425.296 | 432.366 |
| Average                                                    | 439.682 | 433.778 | 436.622 | 436.482 |
| Max                                                        | 443.928 | 440.771 | 444.617 | 439.188 |
| UL                                                         | 576.000 | 576.000 | 576.000 | 576.000 |

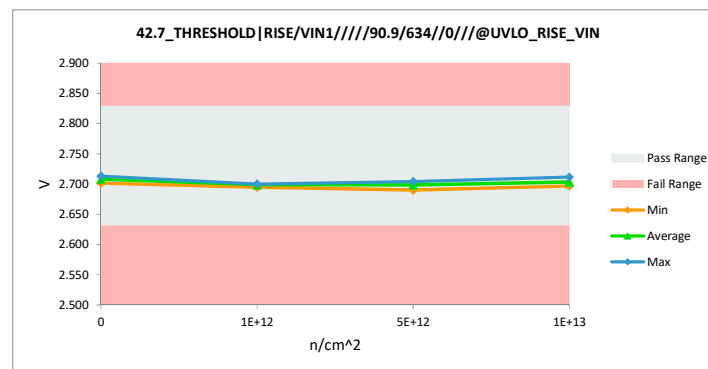


## NDD Report TPS7H4102-SP

| 42.7_THRESHOLD RISE/VIN1////90.9/634/0//@UVLO_RISE_VIN |          |                     |                    |        |
|--------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                              |          |                     |                    |        |
| Tester                                                 |          |                     |                    |        |
| Test Number                                            |          |                     |                    |        |
| Unit                                                   | V        | V                   |                    |        |
| Max Limit                                              | 2.83     | 2.8285              |                    |        |
| Min Limit                                              | 2.63     | 2.6315              |                    |        |
| n/cm <sup>2</sup>                                      | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                      | 1        | 2.703               | 2.713              | 0.010  |
| 0                                                      | 2        | 2.709               | 2.701              | -0.008 |
| 0                                                      | 3        | 2.711               | 2.709              | -0.002 |
| 1E+12                                                  | 30       | 2.693               | 2.700              | 0.007  |
| 1E+12                                                  | 31       | 2.699               | 2.695              | -0.004 |
| 1E+12                                                  | 32       | 2.699               | 2.700              | 0.001  |
| 1E+12                                                  | 33       | 2.698               | 2.700              | 0.002  |
| 5E+12                                                  | 34       | 2.678               | 2.690              | 0.012  |
| 5E+12                                                  | 35       | 2.686               | 2.697              | 0.011  |
| 5E+12                                                  | 36       | 2.690               | 2.703              | 0.013  |
| 5E+12                                                  | 37       | 2.691               | 2.704              | 0.013  |
| 1E+13                                                  | 38       | 2.684               | 2.707              | 0.023  |
| 1E+13                                                  | 39       | 2.675               | 2.697              | 0.023  |
| 1E+13                                                  | 40       | 2.674               | 2.712              | 0.038  |
| 1E+13                                                  | 41       | 2.675               | 2.697              | 0.022  |
|                                                        | Max      | 2.711               | 2.713              | 0.038  |
|                                                        | Average  | 2.691               | 2.702              | 0.011  |
|                                                        | Min      | 2.674               | 2.690              | -0.008 |
|                                                        | Std Dev  | 0.012               | 0.006              | 0.012  |

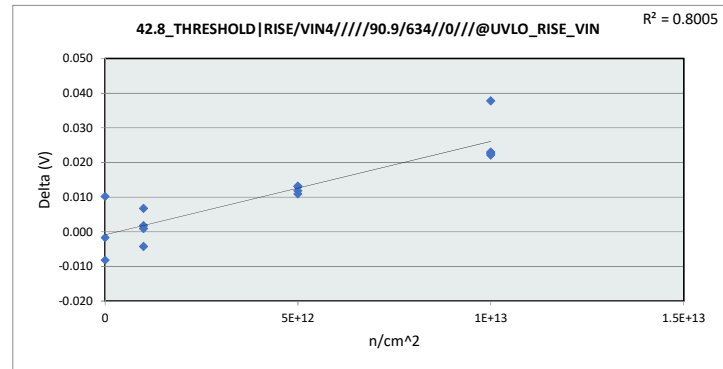


| 42.7_THRESHOLD RISE/VIN1////90.9/634/0//@UVLO_RISE_VIN |        |       |       |       |
|--------------------------------------------------------|--------|-------|-------|-------|
| Test Site                                              |        |       |       |       |
| Tester                                                 |        |       |       |       |
| Test Number                                            |        |       |       |       |
| Max Limit                                              | 2.8285 | V     |       |       |
| Min Limit                                              | 2.6315 | V     |       |       |
| n/cm <sup>2</sup>                                      | 0      | 1E+12 | 5E+12 | 1E+13 |
| LL                                                     | 2.632  | 2.632 | 2.632 | 2.632 |
| Min                                                    | 2.701  | 2.695 | 2.690 | 2.697 |
| Average                                                | 2.708  | 2.699 | 2.699 | 2.703 |
| Max                                                    | 2.713  | 2.700 | 2.704 | 2.712 |
| UL                                                     | 2.829  | 2.829 | 2.829 | 2.829 |

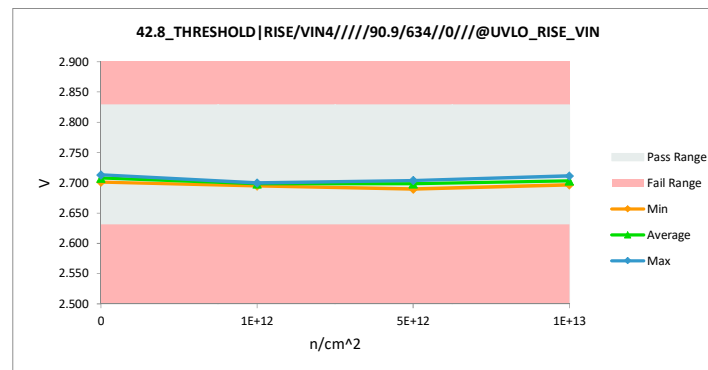


## NDD Report TPS7H4102-SP

| 42.8_THRESHOLD RISE/VIN4/////90.9/634/0///@UVLO_RISE_VIN |          |                     |                    |        |
|----------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                |          |                     |                    |        |
| Tester                                                   |          |                     |                    |        |
| Test Number                                              |          |                     |                    |        |
| Unit                                                     | V        | V                   |                    |        |
| Max Limit                                                | 2.83     | 2.8285              |                    |        |
| Min Limit                                                | 2.63     | 2.6315              |                    |        |
| n/cm <sup>2</sup>                                        | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                        | 1        | 2.703               | 2.713              | 0.010  |
| 0                                                        | 2        | 2.710               | 2.701              | -0.008 |
| 0                                                        | 3        | 2.711               | 2.709              | -0.002 |
| 1E+12                                                    | 30       | 2.693               | 2.700              | 0.007  |
| 1E+12                                                    | 31       | 2.699               | 2.695              | -0.004 |
| 1E+12                                                    | 32       | 2.699               | 2.700              | 0.001  |
| 1E+12                                                    | 33       | 2.698               | 2.700              | 0.002  |
| 5E+12                                                    | 34       | 2.678               | 2.690              | 0.012  |
| 5E+12                                                    | 35       | 2.686               | 2.697              | 0.011  |
| 5E+12                                                    | 36       | 2.690               | 2.703              | 0.013  |
| 5E+12                                                    | 37       | 2.691               | 2.704              | 0.013  |
| 1E+13                                                    | 38       | 2.684               | 2.707              | 0.023  |
| 1E+13                                                    | 39       | 2.675               | 2.697              | 0.023  |
| 1E+13                                                    | 40       | 2.674               | 2.712              | 0.038  |
| 1E+13                                                    | 41       | 2.675               | 2.697              | 0.022  |
|                                                          | Max      | 2.711               | 2.713              | 0.038  |
|                                                          | Average  | 2.691               | 2.702              | 0.011  |
|                                                          | Min      | 2.674               | 2.690              | -0.008 |
|                                                          | Std Dev  | 0.012               | 0.006              | 0.012  |

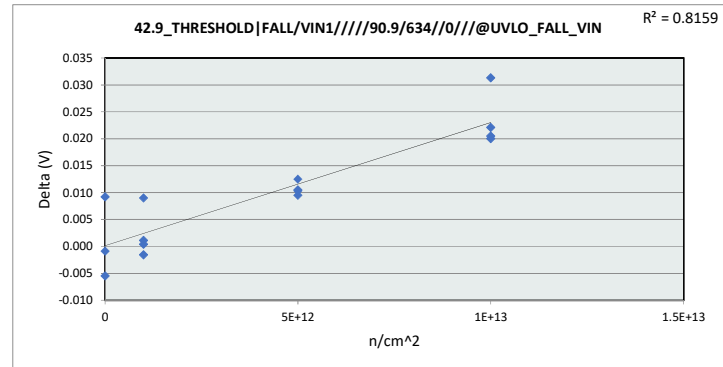


| 42.8_THRESHOLD RISE/VIN4/////90.9/634/0///@UVLO_RISE_VIN |        |       |       |       |
|----------------------------------------------------------|--------|-------|-------|-------|
| Test Site                                                |        |       |       |       |
| Tester                                                   |        |       |       |       |
| Test Number                                              |        |       |       |       |
| Max Limit                                                | 2.8285 | V     |       |       |
| Min Limit                                                | 2.6315 | V     |       |       |
| n/cm <sup>2</sup>                                        | 0      | 1E+12 | 5E+12 | 1E+13 |
| LL                                                       | 2.632  | 2.632 | 2.632 | 2.632 |
| Min                                                      | 2.701  | 2.695 | 2.690 | 2.697 |
| Average                                                  | 2.708  | 2.699 | 2.698 | 2.703 |
| Max                                                      | 2.713  | 2.700 | 2.704 | 2.712 |
| UL                                                       | 2.829  | 2.829 | 2.829 | 2.829 |

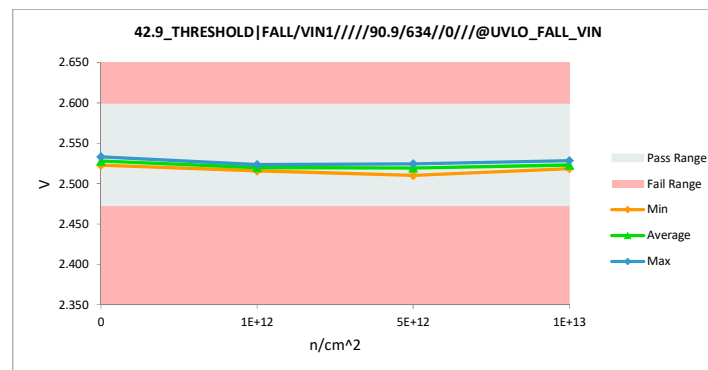


## NDD Report TPS7H4102-SP

| 42.9_THRESHOLD FALL VIN1 ///90.9/634 0 ///@UVLO_FALL_VIN |          |                     |                    |        |
|----------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                |          |                     |                    |        |
| Tester                                                   |          |                     |                    |        |
| Test Number                                              |          |                     |                    |        |
| Unit                                                     | V        |                     | V                  |        |
| Max Limit                                                | 2.6      |                     | 2.598              |        |
| Min Limit                                                | 2.47     |                     | 2.472              |        |
| n/cm <sup>2</sup>                                        | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                        | 1        | 2.524               | 2.533              | 0.009  |
| 0                                                        | 2        | 2.529               | 2.523              | -0.006 |
| 0                                                        | 3        | 2.529               | 2.528              | -0.001 |
| 1E+12                                                    | 30       | 2.514               | 2.523              | 0.009  |
| 1E+12                                                    | 31       | 2.518               | 2.516              | -0.002 |
| 1E+12                                                    | 32       | 2.518               | 2.518              | 0.000  |
| 1E+12                                                    | 33       | 2.520               | 2.522              | 0.001  |
| 5E+12                                                    | 34       | 2.500               | 2.510              | 0.010  |
| 5E+12                                                    | 35       | 2.511               | 2.522              | 0.010  |
| 5E+12                                                    | 36       | 2.512               | 2.521              | 0.010  |
| 5E+12                                                    | 37       | 2.512               | 2.524              | 0.012  |
| 1E+13                                                    | 38       | 2.504               | 2.526              | 0.022  |
| 1E+13                                                    | 39       | 2.498               | 2.518              | 0.020  |
| 1E+13                                                    | 40       | 2.497               | 2.529              | 0.031  |
| 1E+13                                                    | 41       | 2.498               | 2.519              | 0.020  |
|                                                          | Max      | 2.529               | 2.533              | 0.031  |
|                                                          | Average  | 2.512               | 2.522              | 0.010  |
|                                                          | Min      | 2.497               | 2.510              | -0.006 |
|                                                          | Std Dev  | 0.011               | 0.006              | 0.010  |

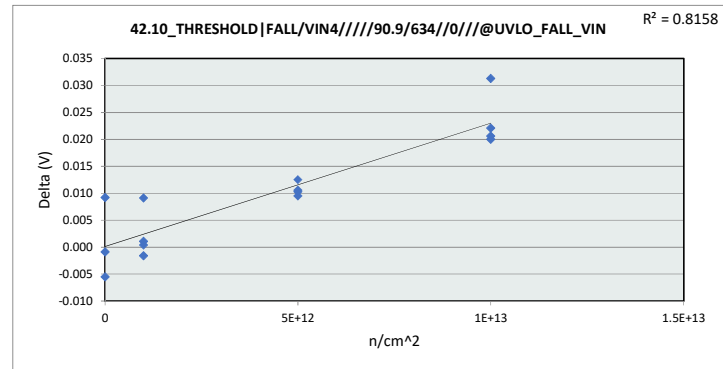


| 42.9_THRESHOLD FALL VIN1 ///90.9/634 0 ///@UVLO_FALL_VIN |       |       |       |       |
|----------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                |       |       |       |       |
| Tester                                                   |       |       |       |       |
| Test Number                                              |       |       |       |       |
| Max Limit                                                | 2.598 |       | V     |       |
| Min Limit                                                | 2.472 |       | V     |       |
| n/cm <sup>2</sup>                                        | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                       | 2.472 | 2.472 | 2.472 | 2.472 |
| Min                                                      | 2.523 | 2.516 | 2.510 | 2.518 |
| Average                                                  | 2.528 | 2.520 | 2.519 | 2.523 |
| Max                                                      | 2.533 | 2.524 | 2.525 | 2.529 |
| UL                                                       | 2.598 | 2.598 | 2.598 | 2.598 |

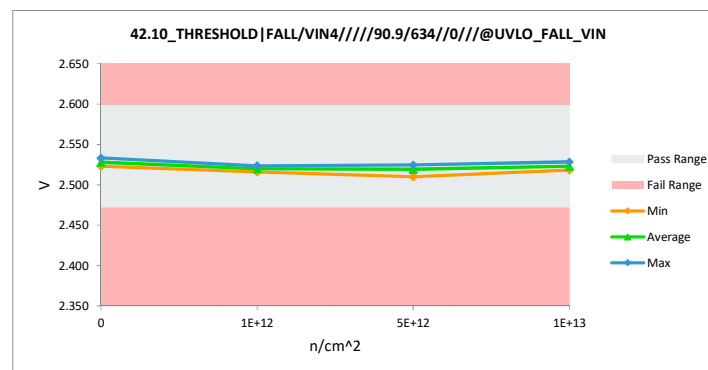


## NDD Report TPS7H4102-SP

| 42.10_THRESHOLD FALL/VIN4/////90.9/ |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | V        |                     | V                  |        |
| Max Limit                           | 2.6      |                     | 2.598              |        |
| Min Limit                           | 2.47     |                     | 2.472              |        |
| n/cm <sup>2</sup>                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 2.524               | 2.533              | 0.009  |
| 0                                   | 2        | 2.529               | 2.523              | -0.006 |
| 0                                   | 3        | 2.529               | 2.528              | -0.001 |
| 1E+12                               | 30       | 2.514               | 2.523              | 0.009  |
| 1E+12                               | 31       | 2.518               | 2.516              | -0.002 |
| 1E+12                               | 32       | 2.518               | 2.518              | 0.000  |
| 1E+12                               | 33       | 2.520               | 2.522              | 0.001  |
| 5E+12                               | 34       | 2.500               | 2.510              | 0.011  |
| 5E+12                               | 35       | 2.511               | 2.522              | 0.010  |
| 5E+12                               | 36       | 2.512               | 2.521              | 0.010  |
| 5E+12                               | 37       | 2.512               | 2.524              | 0.012  |
| 1E+13                               | 38       | 2.504               | 2.526              | 0.022  |
| 1E+13                               | 39       | 2.498               | 2.518              | 0.020  |
| 1E+13                               | 40       | 2.497               | 2.529              | 0.031  |
| 1E+13                               | 41       | 2.498               | 2.519              | 0.021  |
|                                     | Max      | 2.529               | 2.533              | 0.031  |
|                                     | Average  | 2.512               | 2.522              | 0.010  |
|                                     | Min      | 2.497               | 2.510              | -0.006 |
|                                     | Std Dev  | 0.011               | 0.006              | 0.010  |



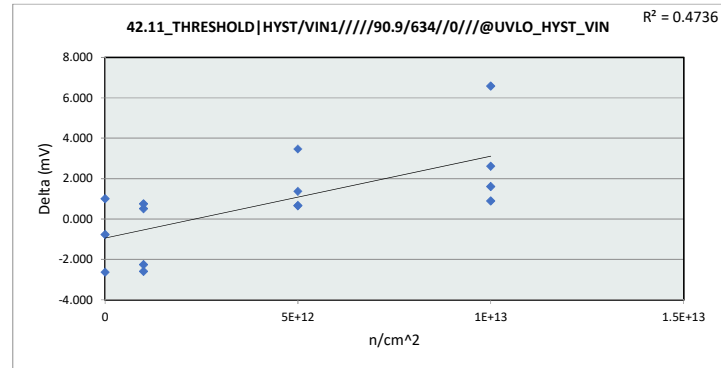
| 42.10_THRESHOLD FALL/VIN4 |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 2.598 |       | V     |       |
| Min Limit                 | 2.472 |       | V     |       |
| n/cm <sup>2</sup>         | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 2.472 | 2.472 | 2.472 | 2.472 |
| Min                       | 2.523 | 2.516 | 2.510 | 2.518 |
| Average                   | 2.528 | 2.520 | 2.519 | 2.523 |
| Max                       | 2.533 | 2.524 | 2.525 | 2.529 |
| UL                        | 2.598 | 2.598 | 2.598 | 2.598 |



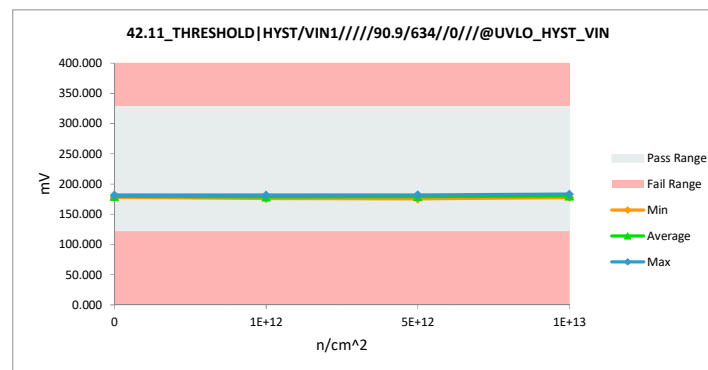


## NDD Report TPS7H4102-SP

| 42.11_THRESHOLD HYST/VIN1////90.9 |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | mV       |                     | mV                 |        |
| Max Limit                         | 330      |                     | 328                |        |
| Min Limit                         | 120      |                     | 122                |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 178.927             | 179.923            | 0.996  |
| 0                                 | 2        | 180.953             | 178.318            | -2.635 |
| 0                                 | 3        | 182.288             | 181.517            | -0.771 |
| 1E+12                             | 30       | 178.469             | 176.208            | -2.261 |
| 1E+12                             | 31       | 181.435             | 178.837            | -2.598 |
| 1E+12                             | 32       | 181.105             | 181.613            | 0.508  |
| 1E+12                             | 33       | 177.624             | 178.368            | 0.744  |
| 5E+12                             | 34       | 178.533             | 179.906            | 1.373  |
| 5E+12                             | 35       | 174.689             | 175.364            | 0.675  |
| 5E+12                             | 36       | 178.448             | 181.910            | 3.462  |
| 5E+12                             | 37       | 178.857             | 179.502            | 0.645  |
| 1E+13                             | 38       | 179.832             | 180.725            | 0.893  |
| 1E+13                             | 39       | 176.466             | 179.077            | 2.611  |
| 1E+13                             | 40       | 176.574             | 183.148            | 6.574  |
| 1E+13                             | 41       | 176.398             | 178.004            | 1.606  |
|                                   | Max      | 182.288             | 183.148            | 6.574  |
|                                   | Average  | 178.707             | 179.495            | 0.788  |
|                                   | Min      | 174.689             | 175.364            | -2.635 |
|                                   | Std Dev  | 2.151               | 2.121              | 2.391  |

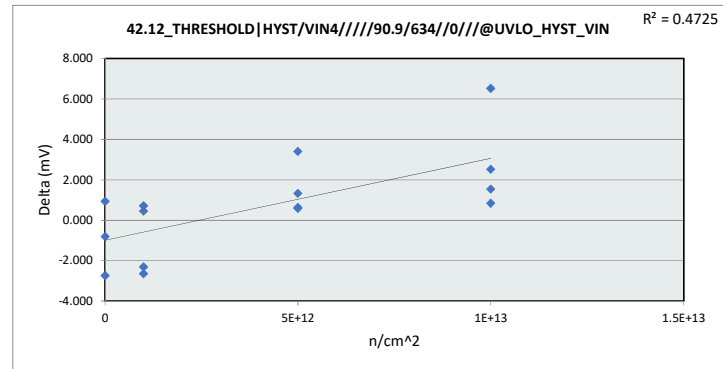


| 42.11_THRESHOLD HYST/VIN |         |         |         |         |
|--------------------------|---------|---------|---------|---------|
| Test Site                |         |         |         |         |
| Tester                   |         |         |         |         |
| Test Number              |         |         |         |         |
| Max Limit                | 328     |         | mV      |         |
| Min Limit                | 122     |         | mV      |         |
| n/cm^2                   | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                       | 122.000 | 122.000 | 122.000 | 122.000 |
| Min                      | 178.318 | 176.208 | 175.364 | 178.004 |
| Average                  | 179.919 | 178.756 | 179.171 | 180.239 |
| Max                      | 181.517 | 181.613 | 181.910 | 183.148 |
| UL                       | 328.000 | 328.000 | 328.000 | 328.000 |

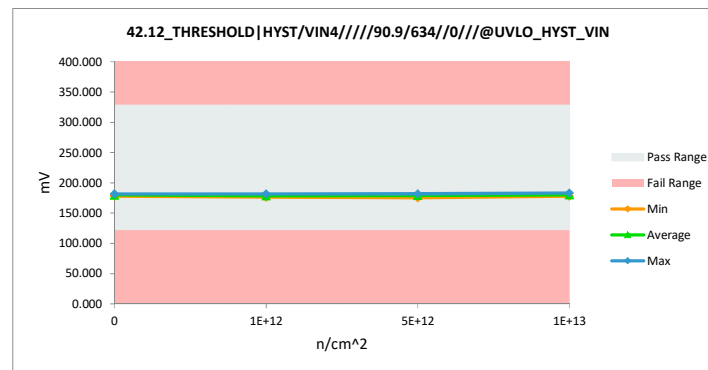


## NDD Report TPS7H4102-SP

| 42.12_THRESHOLD HYST/VIN4////90.9 |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | mV       |                     | mV                 |        |
| Max Limit                         | 330      |                     | 328                |        |
| Min Limit                         | 120      |                     | 122                |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 178.965             | 179.902            | 0.937  |
| 0                                 | 2        | 181.002             | 178.265            | -2.737 |
| 0                                 | 3        | 182.312             | 181.503            | -0.809 |
| 1E+12                             | 30       | 178.499             | 176.188            | -2.311 |
| 1E+12                             | 31       | 181.467             | 178.822            | -2.645 |
| 1E+12                             | 32       | 181.144             | 181.599            | 0.454  |
| 1E+12                             | 33       | 177.651             | 178.361            | 0.709  |
| 5E+12                             | 34       | 178.558             | 179.891            | 1.333  |
| 5E+12                             | 35       | 174.717             | 175.352            | 0.636  |
| 5E+12                             | 36       | 178.474             | 181.889            | 3.415  |
| 5E+12                             | 37       | 178.894             | 179.489            | 0.595  |
| 1E+13                             | 38       | 179.842             | 180.694            | 0.852  |
| 1E+13                             | 39       | 176.490             | 179.020            | 2.530  |
| 1E+13                             | 40       | 176.597             | 183.136            | 6.539  |
| 1E+13                             | 41       | 176.420             | 177.970            | 1.550  |
|                                   | Max      | 182.312             | 183.136            | 6.539  |
|                                   | Average  | 178.735             | 179.472            | 0.737  |
|                                   | Min      | 174.717             | 175.352            | -2.737 |
|                                   | Std Dev  | 2.154               | 2.123              | 2.397  |

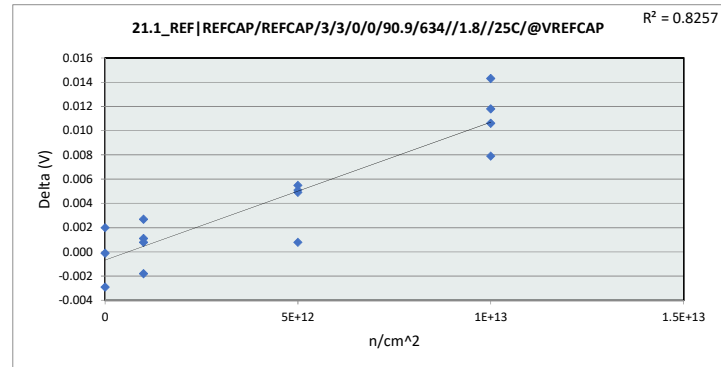


| 42.12_THRESHOLD HYST/VIN4 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 328     |         | mV      |         |
| Min Limit                 | 122     |         | mV      |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 122.000 | 122.000 | 122.000 | 122.000 |
| Min                       | 178.265 | 176.188 | 175.352 | 177.970 |
| Average                   | 179.890 | 178.742 | 179.155 | 180.205 |
| Max                       | 181.503 | 181.599 | 181.889 | 183.136 |
| UL                        | 328.000 | 328.000 | 328.000 | 328.000 |

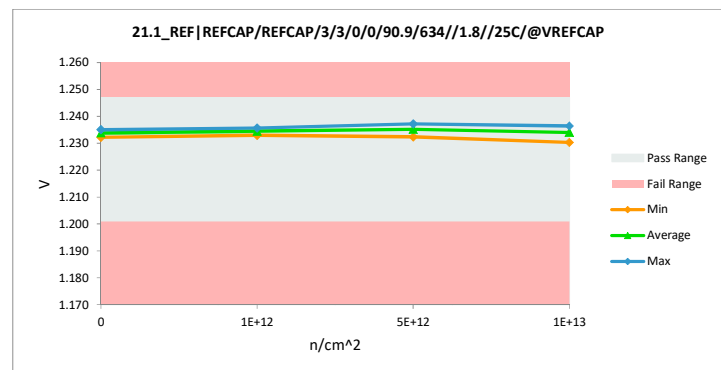


## NDD Report TPS7H4102-SP

| 21.1_REF REFCAP/REFCAP/3/3/0/0/90.9 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | V        |                     | V                  |        |
| Max Limit                           | 1.248    |                     | 1.247              |        |
| Min Limit                           | 1.2      |                     | 1.201              |        |
| n/cm <sup>2</sup>                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 1.232               | 1.234              | 0.002  |
| 0                                   | 2        | 1.235               | 1.232              | -0.003 |
| 0                                   | 3        | 1.235               | 1.235              | 0.000  |
| 1E+12                               | 30       | 1.232               | 1.235              | 0.003  |
| 1E+12                               | 31       | 1.235               | 1.233              | -0.002 |
| 1E+12                               | 32       | 1.235               | 1.236              | 0.001  |
| 1E+12                               | 33       | 1.234               | 1.235              | 0.001  |
| 5E+12                               | 34       | 1.232               | 1.237              | 0.005  |
| 5E+12                               | 35       | 1.229               | 1.234              | 0.005  |
| 5E+12                               | 36       | 1.232               | 1.237              | 0.005  |
| 5E+12                               | 37       | 1.232               | 1.232              | 0.001  |
| 1E+13                               | 38       | 1.224               | 1.236              | 0.012  |
| 1E+13                               | 39       | 1.222               | 1.230              | 0.008  |
| 1E+13                               | 40       | 1.222               | 1.236              | 0.014  |
| 1E+13                               | 41       | 1.222               | 1.233              | 0.011  |
|                                     | Max      | 1.235               | 1.237              | 0.014  |
|                                     | Average  | 1.230               | 1.234              | 0.004  |
|                                     | Min      | 1.222               | 1.230              | -0.003 |
|                                     | Std Dev  | 0.005               | 0.002              | 0.005  |

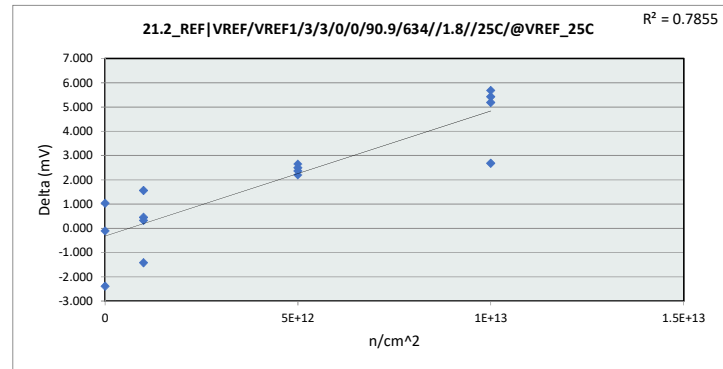


| 21.1_REF REFCAP/REFCAP/3/3/0/0/90.9 |       |       |       |       |
|-------------------------------------|-------|-------|-------|-------|
| Test Site                           |       |       |       |       |
| Tester                              |       |       |       |       |
| Test Number                         |       |       |       |       |
| Max Limit                           | 1.247 |       | V     |       |
| Min Limit                           | 1.201 |       | V     |       |
| n/cm <sup>2</sup>                   | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                  | 1.201 | 1.201 | 1.201 | 1.201 |
| Min                                 | 1.232 | 1.233 | 1.232 | 1.230 |
| Average                             | 1.234 | 1.235 | 1.235 | 1.234 |
| Max                                 | 1.235 | 1.236 | 1.237 | 1.236 |
| UL                                  | 1.247 | 1.247 | 1.247 | 1.247 |

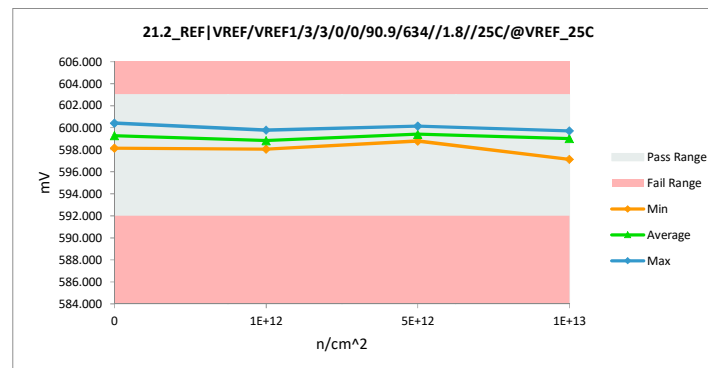


## NDD Report TPS7H4102-SP

| 21.2_REF VREF/VREF1/3/3/0/0/90.9/634//1.8//25C/@VREF_25C |          |                     |                    |        |
|----------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                |          |                     |                    |        |
| Tester                                                   |          |                     |                    |        |
| Test Number                                              |          |                     |                    |        |
| Unit                                                     | mV       |                     | mV                 |        |
| Max Limit                                                | 603.5    |                     | 603                |        |
| Min Limit                                                | 591.5    |                     | 592                |        |
| n/cm^2                                                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                        | 1        | 598.223             | 599.260            | 1.037  |
| 0                                                        | 2        | 600.536             | 598.148            | -2.388 |
| 0                                                        | 3        | 600.529             | 600.425            | -0.103 |
| 1E+12                                                    | 30       | 597.654             | 599.220            | 1.566  |
| 1E+12                                                    | 31       | 599.462             | 598.050            | -1.412 |
| 1E+12                                                    | 32       | 599.460             | 599.792            | 0.332  |
| 1E+12                                                    | 33       | 597.836             | 598.293            | 0.456  |
| 5E+12                                                    | 34       | 597.042             | 599.535            | 2.493  |
| 5E+12                                                    | 35       | 597.772             | 600.141            | 2.369  |
| 5E+12                                                    | 36       | 596.545             | 599.194            | 2.649  |
| 5E+12                                                    | 37       | 596.599             | 598.801            | 2.203  |
| 1E+13                                                    | 38       | 593.941             | 599.632            | 5.691  |
| 1E+13                                                    | 39       | 594.439             | 597.122            | 2.682  |
| 1E+13                                                    | 40       | 594.290             | 599.720            | 5.430  |
| 1E+13                                                    | 41       | 594.410             | 599.602            | 5.192  |
|                                                          | Max      | 600.536             | 600.425            | 5.691  |
|                                                          | Average  | 597.249             | 599.129            | 1.880  |
|                                                          | Min      | 593.941             | 597.122            | -2.388 |
|                                                          | Std Dev  | 2.231               | 0.891              | 2.364  |

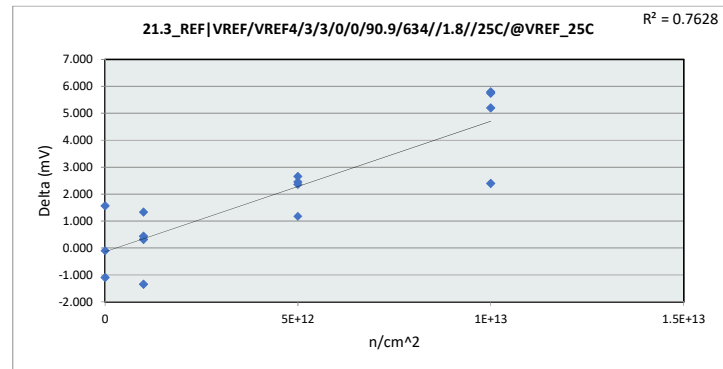


| 21.2_REF VREF/VREF1/3/3/0/0/90.9/634//1.8//25C/@VREF_25C |         |         |         |         |
|----------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                |         |         |         |         |
| Tester                                                   |         |         |         |         |
| Test Number                                              |         |         |         |         |
| Max Limit                                                | 603     |         | mV      |         |
| Min Limit                                                | 592     |         | mV      |         |
| n/cm^2                                                   | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                       | 592.000 | 592.000 | 592.000 | 592.000 |
| Min                                                      | 598.148 | 598.050 | 598.801 | 597.122 |
| Average                                                  | 599.278 | 598.839 | 599.418 | 599.019 |
| Max                                                      | 600.425 | 599.792 | 600.141 | 599.720 |
| UL                                                       | 603.000 | 603.000 | 603.000 | 603.000 |

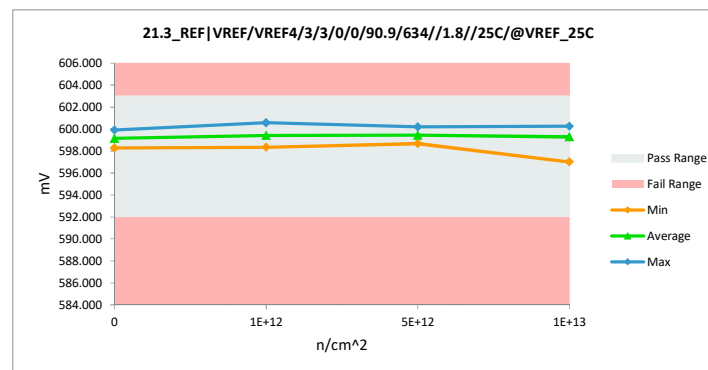


## NDD Report TPS7H4102-SP

| 21.3_REF VREF/VREF4/3/3/0/0/90.9/634//1.8//25C/@VREF_25C |          |                     |                    |        |
|----------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                |          |                     |                    |        |
| Tester                                                   |          |                     |                    |        |
| Test Number                                              |          |                     |                    |        |
| Unit                                                     | mV       |                     | mV                 |        |
| Max Limit                                                | 603.5    |                     | 603                |        |
| Min Limit                                                | 591.5    |                     | 592                |        |
| n/cm <sup>2</sup>                                        | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                        | 1        | 598.359             | 599.920            | 1.561  |
| 0                                                        | 2        | 599.374             | 598.280            | -1.094 |
| 0                                                        | 3        | 599.365             | 599.265            | -0.100 |
| 1E+12                                                    | 30       | 598.477             | 599.808            | 1.330  |
| 1E+12                                                    | 31       | 600.242             | 598.895            | -1.347 |
| 1E+12                                                    | 32       | 600.254             | 600.575            | 0.320  |
| 1E+12                                                    | 33       | 597.917             | 598.350            | 0.433  |
| 5E+12                                                    | 34       | 597.746             | 600.199            | 2.453  |
| 5E+12                                                    | 35       | 596.419             | 598.786            | 2.367  |
| 5E+12                                                    | 36       | 597.451             | 600.110            | 2.659  |
| 5E+12                                                    | 37       | 597.498             | 598.678            | 1.180  |
| 1E+13                                                    | 38       | 594.359             | 600.103            | 5.743  |
| 1E+13                                                    | 39       | 594.613             | 597.004            | 2.391  |
| 1E+13                                                    | 40       | 594.470             | 600.265            | 5.795  |
| 1E+13                                                    | 41       | 594.589             | 599.788            | 5.200  |
|                                                          | Max      | 600.254             | 600.575            | 5.795  |
|                                                          | Average  | 597.409             | 599.335            | 1.926  |
|                                                          | Min      | 594.359             | 597.004            | -1.347 |
|                                                          | Std Dev  | 2.086               | 0.984              | 2.256  |

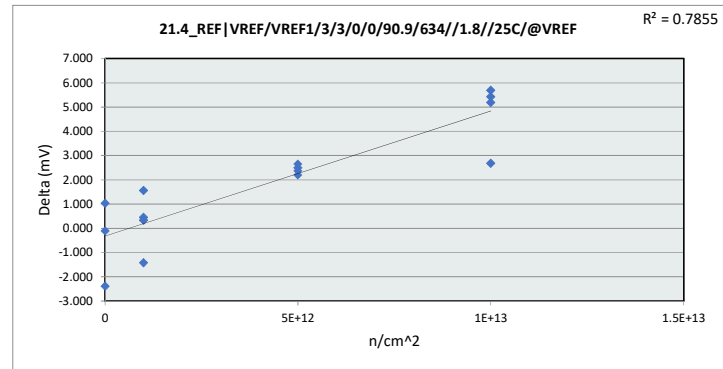


| 21.3_REF VREF/VREF4/3/3/0 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 603     |         | mV      |         |
| Min Limit                 | 592     |         | mV      |         |
| n/cm <sup>2</sup>         | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 592.000 | 592.000 | 592.000 | 592.000 |
| Min                       | 598.280 | 598.350 | 598.678 | 597.004 |
| Average                   | 599.155 | 599.407 | 599.443 | 599.290 |
| Max                       | 599.920 | 600.575 | 600.199 | 600.265 |
| UL                        | 603.000 | 603.000 | 603.000 | 603.000 |

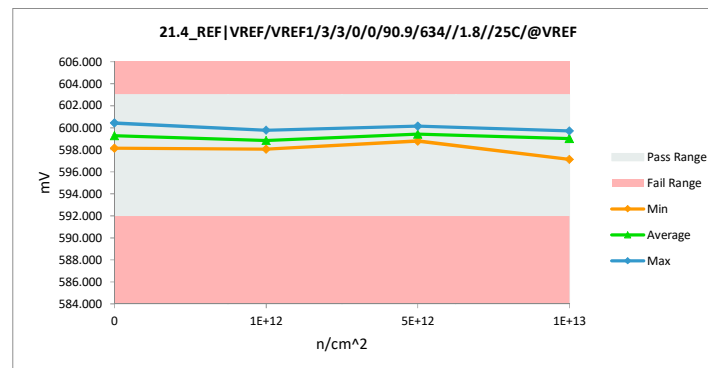


## NDD Report TPS7H4102-SP

| 21.4_REF VREF/VREF1/3/3/0/0/90.9/634//1.8//25C/@VREF |          |                     |                    |        |
|------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                            |          |                     |                    |        |
| Tester                                               |          |                     |                    |        |
| Test Number                                          |          |                     |                    |        |
| Unit                                                 | mV       |                     | mV                 |        |
| Max Limit                                            | 603.5    |                     | 603                |        |
| Min Limit                                            | 591.5    |                     | 592                |        |
| n/cm^2                                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                    | 1        | 598.223             | 599.260            | 1.037  |
| 0                                                    | 2        | 600.536             | 598.148            | -2.388 |
| 0                                                    | 3        | 600.529             | 600.425            | -0.103 |
| 1E+12                                                | 30       | 597.654             | 599.220            | 1.566  |
| 1E+12                                                | 31       | 599.462             | 598.050            | -1.412 |
| 1E+12                                                | 32       | 599.460             | 599.792            | 0.332  |
| 1E+12                                                | 33       | 597.836             | 598.293            | 0.456  |
| 5E+12                                                | 34       | 597.042             | 599.535            | 2.493  |
| 5E+12                                                | 35       | 597.772             | 600.141            | 2.369  |
| 5E+12                                                | 36       | 596.545             | 599.194            | 2.649  |
| 5E+12                                                | 37       | 596.599             | 598.801            | 2.203  |
| 1E+13                                                | 38       | 593.941             | 599.632            | 5.691  |
| 1E+13                                                | 39       | 594.439             | 597.122            | 2.682  |
| 1E+13                                                | 40       | 594.290             | 599.720            | 5.430  |
| 1E+13                                                | 41       | 594.410             | 599.602            | 5.192  |
|                                                      | Max      | 600.536             | 600.425            | 5.691  |
|                                                      | Average  | 597.249             | 599.129            | 1.880  |
|                                                      | Min      | 593.941             | 597.122            | -2.388 |
|                                                      | Std Dev  | 2.231               | 0.891              | 2.364  |

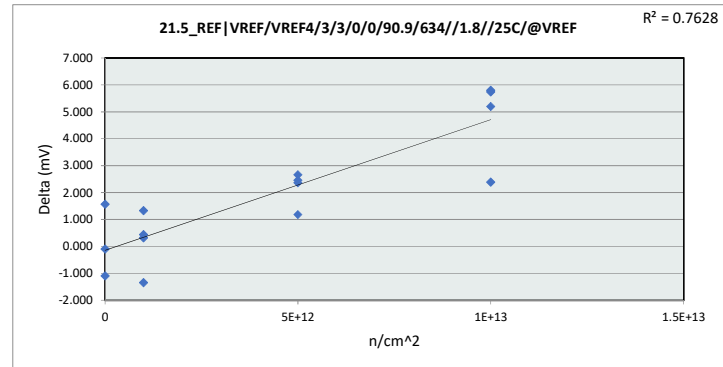


| 21.4_REF VREF/VREF1/3/3/0 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 603     |         | mV      |         |
| Min Limit                 | 592     |         | mV      |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 592.000 | 592.000 | 592.000 | 592.000 |
| Min                       | 598.148 | 598.050 | 598.801 | 597.122 |
| Average                   | 599.278 | 598.839 | 599.418 | 599.019 |
| Max                       | 600.425 | 599.792 | 600.141 | 599.720 |
| UL                        | 603.000 | 603.000 | 603.000 | 603.000 |

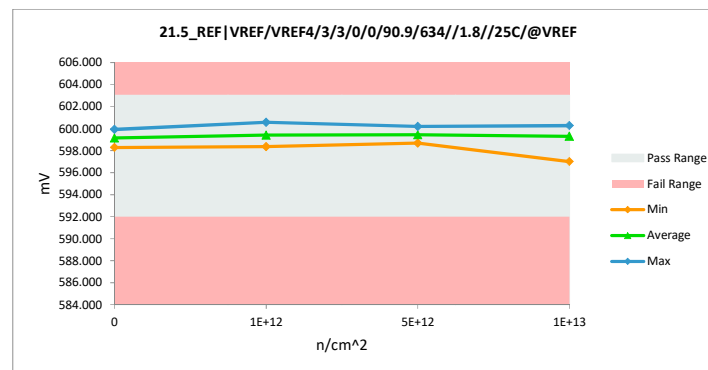


## NDD Report TPS7H4102-SP

| 21.5_REF VREF/VREF4/3/3/0/0/90.9/63 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mV       |                     | mV                 |        |
| Max Limit                           | 603.5    |                     | 603                |        |
| Min Limit                           | 591.5    |                     | 592                |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 598.359             | 599.920            | 1.561  |
| 0                                   | 2        | 599.374             | 598.280            | -1.094 |
| 0                                   | 3        | 599.365             | 599.265            | -0.100 |
| 1E+12                               | 30       | 598.477             | 599.808            | 1.330  |
| 1E+12                               | 31       | 600.242             | 598.895            | -1.347 |
| 1E+12                               | 32       | 600.254             | 600.575            | 0.320  |
| 1E+12                               | 33       | 597.917             | 598.350            | 0.433  |
| 5E+12                               | 34       | 597.746             | 600.199            | 2.453  |
| 5E+12                               | 35       | 596.419             | 598.786            | 2.367  |
| 5E+12                               | 36       | 597.451             | 600.110            | 2.659  |
| 5E+12                               | 37       | 597.498             | 598.678            | 1.180  |
| 1E+13                               | 38       | 594.359             | 600.103            | 5.743  |
| 1E+13                               | 39       | 594.613             | 597.004            | 2.391  |
| 1E+13                               | 40       | 594.470             | 600.265            | 5.795  |
| 1E+13                               | 41       | 594.589             | 599.788            | 5.200  |
|                                     | Max      | 600.254             | 600.575            | 5.795  |
|                                     | Average  | 597.409             | 599.335            | 1.926  |
|                                     | Min      | 594.359             | 597.004            | -1.347 |
|                                     | Std Dev  | 2.086               | 0.984              | 2.256  |

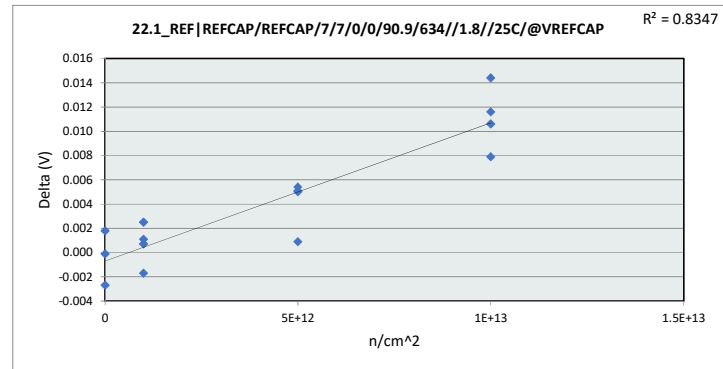


| 21.5_REF VREF/VREF4/3/3/0 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 603     |         | mV      |         |
| Min Limit                 | 592     |         | mV      |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 592.000 | 592.000 | 592.000 | 592.000 |
| Min                       | 598.280 | 598.350 | 598.678 | 597.004 |
| Average                   | 599.155 | 599.407 | 599.443 | 599.290 |
| Max                       | 599.920 | 600.575 | 600.199 | 600.265 |
| UL                        | 603.000 | 603.000 | 603.000 | 603.000 |

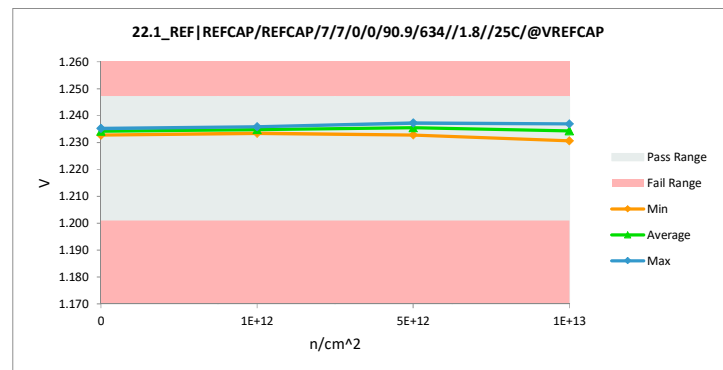


## NDD Report TPS7H4102-SP

| 22.1_REF REFCAP/REFCAP/7/7/0/0/90.9 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | V        |                     | V                  |        |
| Max Limit                           | 1.248    |                     | 1.247              |        |
| Min Limit                           | 1.2      |                     | 1.201              |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 1.233               | 1.235              | 0.002  |
| 0                                   | 2        | 1.235               | 1.233              | -0.003 |
| 0                                   | 3        | 1.235               | 1.235              | 0.000  |
| 1E+12                               | 30       | 1.232               | 1.235              | 0.003  |
| 1E+12                               | 31       | 1.235               | 1.233              | -0.002 |
| 1E+12                               | 32       | 1.235               | 1.236              | 0.001  |
| 1E+12                               | 33       | 1.234               | 1.235              | 0.001  |
| 5E+12                               | 34       | 1.232               | 1.237              | 0.005  |
| 5E+12                               | 35       | 1.230               | 1.235              | 0.005  |
| 5E+12                               | 36       | 1.232               | 1.237              | 0.005  |
| 5E+12                               | 37       | 1.232               | 1.233              | 0.001  |
| 1E+13                               | 38       | 1.225               | 1.236              | 0.012  |
| 1E+13                               | 39       | 1.223               | 1.231              | 0.008  |
| 1E+13                               | 40       | 1.222               | 1.237              | 0.014  |
| 1E+13                               | 41       | 1.223               | 1.233              | 0.011  |
|                                     | Max      | 1.235               | 1.237              | 0.014  |
|                                     | Average  | 1.231               | 1.235              | 0.004  |
|                                     | Min      | 1.222               | 1.231              | -0.003 |
|                                     | Std Dev  | 0.005               | 0.002              | 0.005  |



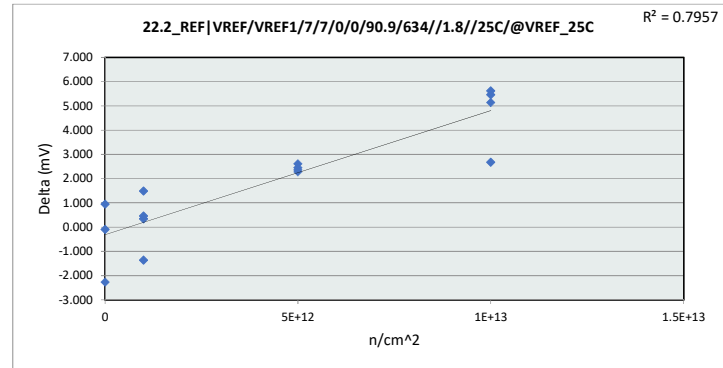
| 22.1_REF REFCAP/REFCAP/7/7/0/0/90.9/634//1.8//25C/@VREFCAP |       |       |       |       |
|------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                  |       |       |       |       |
| Tester                                                     |       |       |       |       |
| Test Number                                                |       |       |       |       |
| Max Limit                                                  | 1.247 |       | V     |       |
| Min Limit                                                  | 1.201 |       | V     |       |
| n/cm^2                                                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                         | 1.201 | 1.201 | 1.201 | 1.201 |
| Min                                                        | 1.233 | 1.233 | 1.233 | 1.231 |
| Average                                                    | 1.234 | 1.235 | 1.235 | 1.234 |
| Max                                                        | 1.235 | 1.236 | 1.237 | 1.237 |
| UL                                                         | 1.247 | 1.247 | 1.247 | 1.247 |



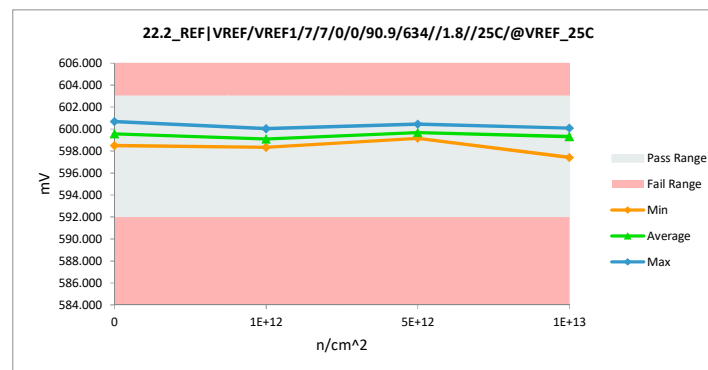


## NDD Report TPS7H4102-SP

| 22.2_REF VREF/VREF1/7/7/0/0/90.9/63 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mV       |                     | mV                 |        |
| Max Limit                           | 603.5    |                     | 603                |        |
| Min Limit                           | 591.5    |                     | 592                |        |
| n/cm <sup>2</sup>                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 598.585             | 599.528            | 0.943  |
| 0                                   | 2        | 600.778             | 598.505            | -2.273 |
| 0                                   | 3        | 600.782             | 600.680            | -0.102 |
| 1E+12                               | 30       | 597.953             | 599.443            | 1.490  |
| 1E+12                               | 31       | 599.705             | 598.341            | -1.364 |
| 1E+12                               | 32       | 599.696             | 600.038            | 0.341  |
| 1E+12                               | 33       | 598.099             | 598.552            | 0.453  |
| 5E+12                               | 34       | 597.207             | 599.662            | 2.455  |
| 5E+12                               | 35       | 598.094             | 600.449            | 2.355  |
| 5E+12                               | 36       | 596.835             | 599.445            | 2.609  |
| 5E+12                               | 37       | 596.887             | 599.162            | 2.274  |
| 1E+13                               | 38       | 594.245             | 599.860            | 5.615  |
| 1E+13                               | 39       | 594.749             | 597.419            | 2.670  |
| 1E+13                               | 40       | 594.625             | 600.085            | 5.460  |
| 1E+13                               | 41       | 594.748             | 599.883            | 5.134  |
|                                     | Max      | 600.782             | 600.680            | 5.615  |
|                                     | Average  | 597.533             | 599.403            | 1.871  |
|                                     | Min      | 594.245             | 597.419            | -2.273 |
|                                     | Std Dev  | 2.207               | 0.877              | 2.335  |

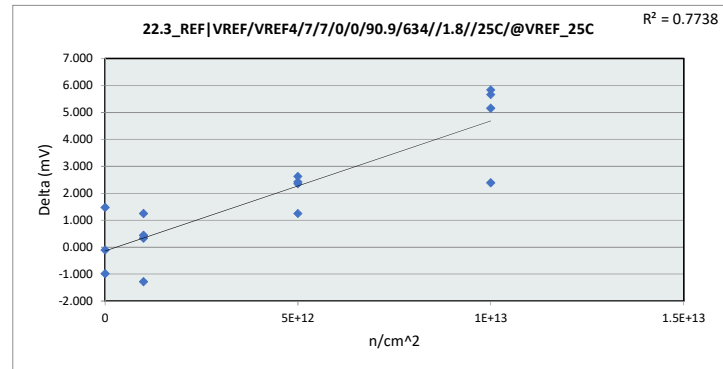


| 22.2_REF VREF/VREF1/7/7/0 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 603     |         | mV      |         |
| Min Limit                 | 592     |         | mV      |         |
| n/cm <sup>2</sup>         | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 592.000 | 592.000 | 592.000 | 592.000 |
| Min                       | 598.506 | 598.341 | 599.162 | 597.419 |
| Average                   | 599.571 | 599.094 | 599.679 | 599.312 |
| Max                       | 600.680 | 600.038 | 600.449 | 600.085 |
| UL                        | 603.000 | 603.000 | 603.000 | 603.000 |

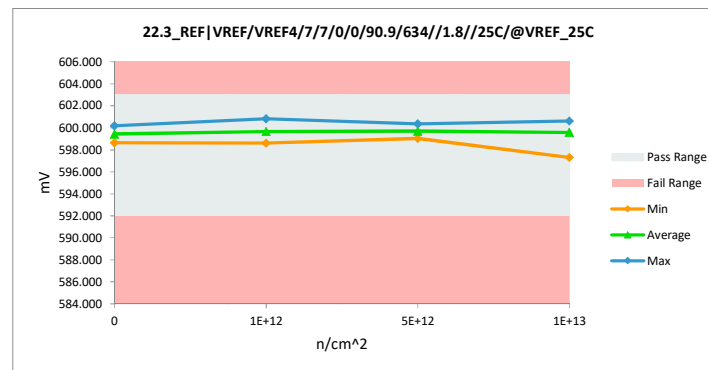


## NDD Report TPS7H4102-SP

| 22.3_REF VREF/VREF4/7/7/0/0/90.9/63 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mV       |                     | mV                 |        |
| Max Limit                           | 603.5    |                     | 603                |        |
| Min Limit                           | 591.5    |                     | 592                |        |
| n/cm <sup>2</sup>                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 598.718             | 600.184            | 1.467  |
| 0                                   | 2        | 599.617             | 598.633            | -0.983 |
| 0                                   | 3        | 599.617             | 599.510            | -0.107 |
| 1E+12                               | 30       | 598.782             | 600.032            | 1.250  |
| 1E+12                               | 31       | 600.470             | 599.188            | -1.282 |
| 1E+12                               | 32       | 600.483             | 600.813            | 0.330  |
| 1E+12                               | 33       | 598.172             | 598.612            | 0.440  |
| 5E+12                               | 34       | 597.903             | 600.331            | 2.428  |
| 5E+12                               | 35       | 596.738             | 599.093            | 2.355  |
| 5E+12                               | 36       | 597.736             | 600.359            | 2.623  |
| 5E+12                               | 37       | 597.784             | 599.033            | 1.249  |
| 1E+13                               | 38       | 594.669             | 600.331            | 5.663  |
| 1E+13                               | 39       | 594.916             | 597.304            | 2.388  |
| 1E+13                               | 40       | 594.793             | 600.629            | 5.836  |
| 1E+13                               | 41       | 594.912             | 600.073            | 5.160  |
|                                     | Max      | 600.483             | 600.813            | 5.836  |
|                                     | Average  | 597.687             | 599.608            | 1.921  |
|                                     | Min      | 594.669             | 597.304            | -1.282 |
|                                     | Std Dev  | 2.059               | 0.959              | 2.230  |

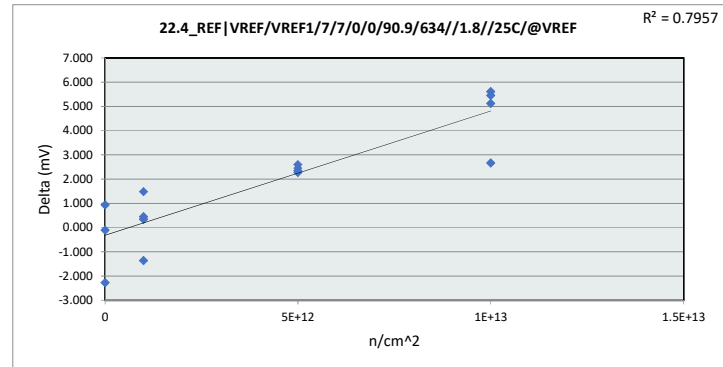


| 22.3_REF VREF/VREF4/7/7/0 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 603     |         | mV      |         |
| Min Limit                 | 592     |         | mV      |         |
| n/cm <sup>2</sup>         | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 592.000 | 592.000 | 592.000 | 592.000 |
| Min                       | 598.634 | 598.612 | 599.033 | 597.304 |
| Average                   | 599.443 | 599.661 | 599.704 | 599.584 |
| Max                       | 600.184 | 600.813 | 600.359 | 600.629 |
| UL                        | 603.000 | 603.000 | 603.000 | 603.000 |

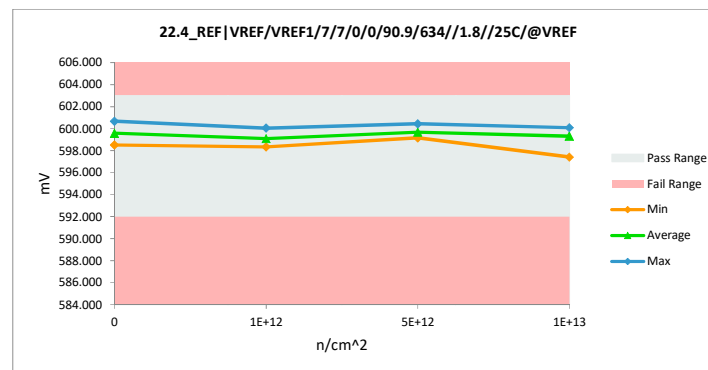


## NDD Report TPS7H4102-SP

| 22.4_REF VREF/VREF1/7/7/0/0/90.9/63 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mV       |                     | mV                 |        |
| Max Limit                           | 603.5    |                     | 603                |        |
| Min Limit                           | 591.5    |                     | 592                |        |
| n/cm <sup>2</sup>                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 598.585             | 599.528            | 0.943  |
| 0                                   | 2        | 600.778             | 598.505            | -2.273 |
| 0                                   | 3        | 600.782             | 600.680            | -0.102 |
| 1E+12                               | 30       | 597.953             | 599.443            | 1.490  |
| 1E+12                               | 31       | 599.705             | 598.341            | -1.364 |
| 1E+12                               | 32       | 599.696             | 600.038            | 0.341  |
| 1E+12                               | 33       | 598.099             | 598.552            | 0.453  |
| 5E+12                               | 34       | 597.207             | 599.662            | 2.455  |
| 5E+12                               | 35       | 598.094             | 600.449            | 2.355  |
| 5E+12                               | 36       | 596.835             | 599.445            | 2.609  |
| 5E+12                               | 37       | 596.887             | 599.162            | 2.274  |
| 1E+13                               | 38       | 594.245             | 599.860            | 5.615  |
| 1E+13                               | 39       | 594.749             | 597.419            | 2.670  |
| 1E+13                               | 40       | 594.625             | 600.085            | 5.460  |
| 1E+13                               | 41       | 594.748             | 599.883            | 5.134  |
|                                     | Max      | 600.782             | 600.680            | 5.615  |
|                                     | Average  | 597.533             | 599.403            | 1.871  |
|                                     | Min      | 594.245             | 597.419            | -2.273 |
|                                     | Std Dev  | 2.207               | 0.877              | 2.335  |

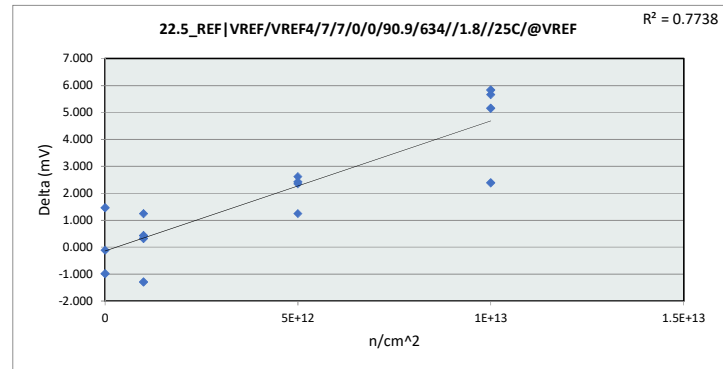


| 22.4_REF VREF/VREF1/7/7/0 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 603     |         | mV      |         |
| Min Limit                 | 592     |         | mV      |         |
| n/cm <sup>2</sup>         | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 592.000 | 592.000 | 592.000 | 592.000 |
| Min                       | 598.506 | 598.341 | 599.162 | 597.419 |
| Average                   | 599.571 | 599.094 | 599.679 | 599.312 |
| Max                       | 600.680 | 600.038 | 600.449 | 600.085 |
| UL                        | 603.000 | 603.000 | 603.000 | 603.000 |

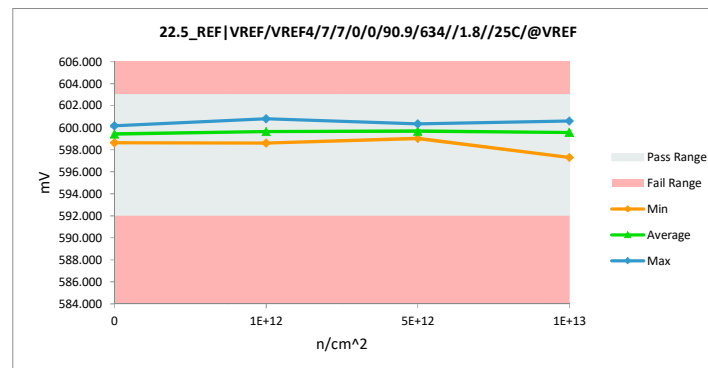


## NDD Report TPS7H4102-SP

| 22.5_REF VREF/VREF4/7/7/0/0/90.9/63 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mV       |                     | mV                 |        |
| Max Limit                           | 603.5    |                     | 603                |        |
| Min Limit                           | 591.5    |                     | 592                |        |
| n/cm <sup>2</sup>                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 598.718             | 600.184            | 1.467  |
| 0                                   | 2        | 599.617             | 598.633            | -0.983 |
| 0                                   | 3        | 599.617             | 599.510            | -0.107 |
| 1E+12                               | 30       | 598.782             | 600.032            | 1.250  |
| 1E+12                               | 31       | 600.470             | 599.188            | -1.282 |
| 1E+12                               | 32       | 600.483             | 600.813            | 0.330  |
| 1E+12                               | 33       | 598.172             | 598.612            | 0.440  |
| 5E+12                               | 34       | 597.903             | 600.331            | 2.428  |
| 5E+12                               | 35       | 596.738             | 599.093            | 2.355  |
| 5E+12                               | 36       | 597.736             | 600.359            | 2.623  |
| 5E+12                               | 37       | 597.784             | 599.033            | 1.249  |
| 1E+13                               | 38       | 594.669             | 600.331            | 5.663  |
| 1E+13                               | 39       | 594.916             | 597.304            | 2.388  |
| 1E+13                               | 40       | 594.793             | 600.629            | 5.836  |
| 1E+13                               | 41       | 594.912             | 600.073            | 5.160  |
|                                     | Max      | 600.483             | 600.813            | 5.836  |
|                                     | Average  | 597.687             | 599.608            | 1.921  |
|                                     | Min      | 594.669             | 597.304            | -1.282 |
|                                     | Std Dev  | 2.059               | 0.959              | 2.230  |

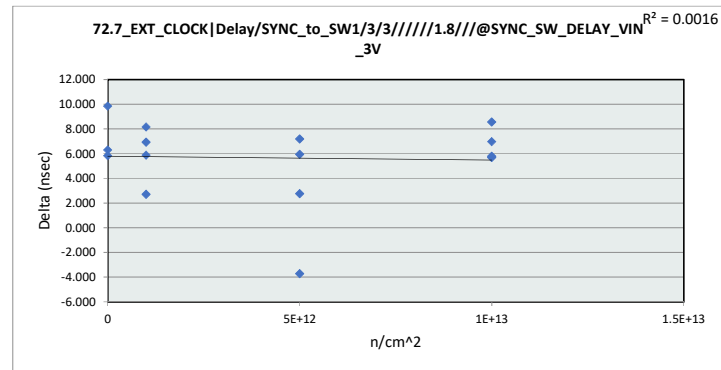


| 22.5_REF VREF/VREF4/7/7/0 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 603     |         | mV      |         |
| Min Limit                 | 592     |         | mV      |         |
| n/cm <sup>2</sup>         | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 592.000 | 592.000 | 592.000 | 592.000 |
| Min                       | 598.634 | 598.612 | 599.033 | 597.304 |
| Average                   | 599.443 | 599.661 | 599.704 | 599.584 |
| Max                       | 600.184 | 600.813 | 600.359 | 600.629 |
| UL                        | 603.000 | 603.000 | 603.000 | 603.000 |

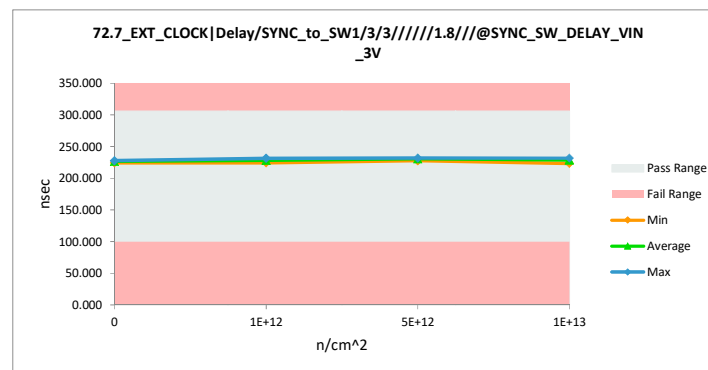


## NDD Report TPS7H4102-SP

| 72.7_EXT_CLOCK Delay/SYNC_to_SW1/3 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | nsec     | nsec                |                    |        |
| Max Limit                          | 314      | 306                 |                    |        |
| Min Limit                          | 58.8     | 100                 |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 221.092             | 227.391            | 6.299  |
| 0                                  | 2        | 218.024             | 227.875            | 9.851  |
| 0                                  | 3        | 218.615             | 224.449            | 5.834  |
| 1E+12                              | 30       | 224.681             | 227.409            | 2.728  |
| 1E+12                              | 31       | 223.256             | 231.415            | 8.160  |
| 1E+12                              | 32       | 222.377             | 229.305            | 6.929  |
| 1E+12                              | 33       | 218.340             | 224.219            | 5.879  |
| 5E+12                              | 34       | 224.598             | 231.787            | 7.188  |
| 5E+12                              | 35       | 224.886             | 230.834            | 5.949  |
| 5E+12                              | 36       | 235.707             | 231.999            | -3.707 |
| 5E+12                              | 37       | 224.990             | 227.753            | 2.763  |
| 1E+13                              | 38       | 217.632             | 223.424            | 5.792  |
| 1E+13                              | 39       | 223.225             | 230.198            | 6.974  |
| 1E+13                              | 40       | 223.291             | 231.860            | 8.569  |
| 1E+13                              | 41       | 223.607             | 229.297            | 5.690  |
|                                    | Max      | 235.707             | 231.999            | 9.851  |
|                                    | Average  | 222.955             | 228.614            | 5.660  |
|                                    | Min      | 217.632             | 223.424            | -3.707 |
|                                    | Std Dev  | 4.419               | 2.880              | 3.199  |

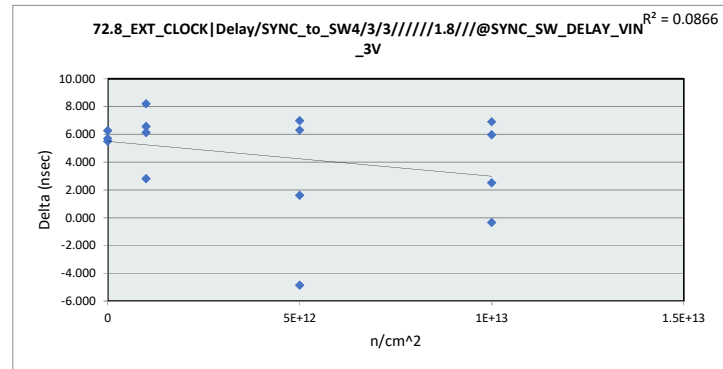


| 72.7_EXT_CLOCK Delay/SYNC |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 306     | nsec    |         |         |
| Min Limit                 | 100     | nsec    |         |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                       | 224.449 | 224.219 | 227.753 | 223.424 |
| Average                   | 226.572 | 228.087 | 230.593 | 228.695 |
| Max                       | 227.875 | 231.415 | 232.000 | 231.860 |
| UL                        | 306.000 | 306.000 | 306.000 | 306.000 |

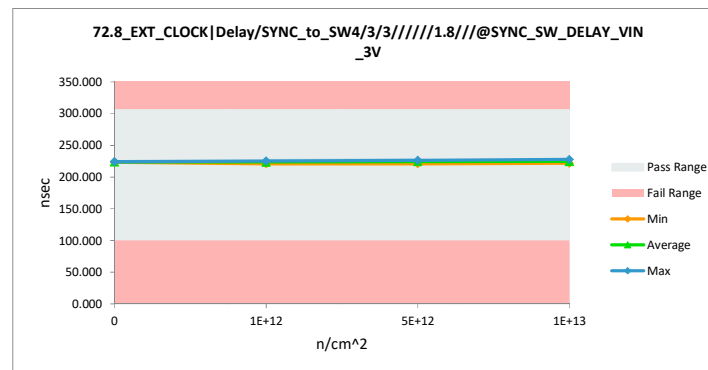


## NDD Report TPS7H4102-SP

| 72.8_EXT_CLOCK Delay/SYNC_to_SW4/3 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | nsec     | nsec                |                    |        |
| Max Limit                          | 314      | 306                 |                    |        |
| Min Limit                          | 58.8     | 100                 |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 218.357             | 224.060            | 5.703  |
| 0                                  | 2        | 217.900             | 224.173            | 6.273  |
| 0                                  | 3        | 218.161             | 223.665            | 5.504  |
| 1E+12                              | 30       | 218.186             | 220.994            | 2.808  |
| 1E+12                              | 31       | 217.094             | 225.300            | 8.206  |
| 1E+12                              | 32       | 216.878             | 223.440            | 6.562  |
| 1E+12                              | 33       | 219.011             | 225.153            | 6.142  |
| 5E+12                              | 34       | 218.076             | 224.389            | 6.313  |
| 5E+12                              | 35       | 219.377             | 226.371            | 6.994  |
| 5E+12                              | 36       | 229.623             | 224.773            | -4.850 |
| 5E+12                              | 37       | 219.490             | 221.111            | 1.622  |
| 1E+13                              | 38       | 217.158             | 224.064            | 6.906  |
| 1E+13                              | 39       | 222.666             | 225.193            | 2.527  |
| 1E+13                              | 40       | 222.010             | 221.680            | -0.329 |
| 1E+13                              | 41       | 221.868             | 227.845            | 5.976  |
|                                    | Max      | 229.623             | 227.845            | 8.206  |
|                                    | Average  | 219.724             | 224.147            | 4.424  |
|                                    | Min      | 216.878             | 220.994            | -4.850 |
|                                    | Std Dev  | 3.289               | 1.861              | 3.479  |

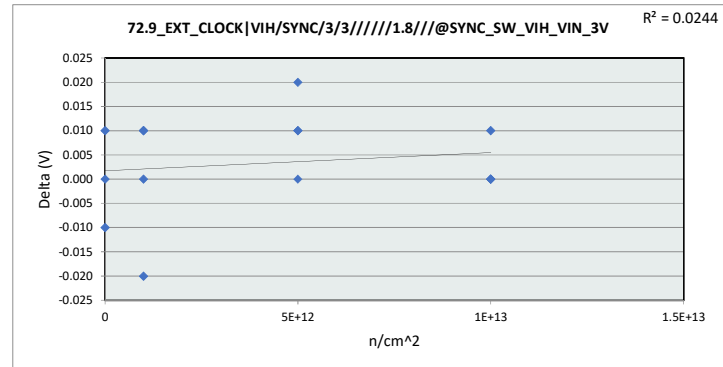


| 72.8_EXT_CLOCK Delay/SYNC |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 306     | nsec    |         |         |
| Min Limit                 | 100     | nsec    |         |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                       | 223.665 | 220.994 | 221.111 | 221.681 |
| Average                   | 223.966 | 223.722 | 224.161 | 224.696 |
| Max                       | 224.173 | 225.300 | 226.371 | 227.845 |
| UL                        | 306.000 | 306.000 | 306.000 | 306.000 |

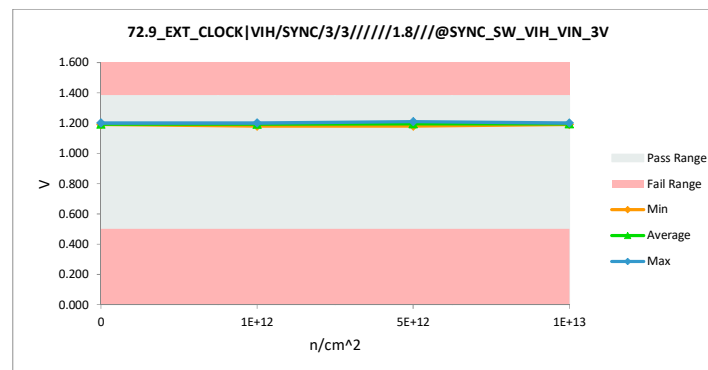


## NDD Report TPS7H4102-SP

| 72.9_EXT_CLOCK VIH/SYNC/3/3/////1.8 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | V        |                     | V                  |        |
| Max Limit                           | 1.4      |                     | 1.38               |        |
| Min Limit                           | 0.324    |                     | 0.5                |        |
| n/cm <sup>2</sup>                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 1.200               | 1.190              | -0.010 |
| 0                                   | 2        | 1.190               | 1.200              | 0.010  |
| 0                                   | 3        | 1.190               | 1.190              | 0.000  |
| 1E+12                               | 30       | 1.200               | 1.180              | -0.020 |
| 1E+12                               | 31       | 1.190               | 1.200              | 0.010  |
| 1E+12                               | 32       | 1.190               | 1.190              | 0.000  |
| 1E+12                               | 33       | 1.190               | 1.200              | 0.010  |
| 5E+12                               | 34       | 1.200               | 1.210              | 0.010  |
| 5E+12                               | 35       | 1.180               | 1.200              | 0.020  |
| 5E+12                               | 36       | 1.180               | 1.180              | 0.000  |
| 5E+12                               | 37       | 1.180               | 1.190              | 0.010  |
| 1E+13                               | 38       | 1.190               | 1.200              | 0.010  |
| 1E+13                               | 39       | 1.190               | 1.190              | 0.000  |
| 1E+13                               | 40       | 1.190               | 1.190              | 0.000  |
| 1E+13                               | 41       | 1.200               | 1.200              | 0.000  |
|                                     | Max      | 1.200               | 1.210              | 0.020  |
|                                     | Average  | 1.191               | 1.194              | 0.003  |
|                                     | Min      | 1.180               | 1.180              | -0.020 |
|                                     | Std Dev  | 0.007               | 0.008              | 0.010  |

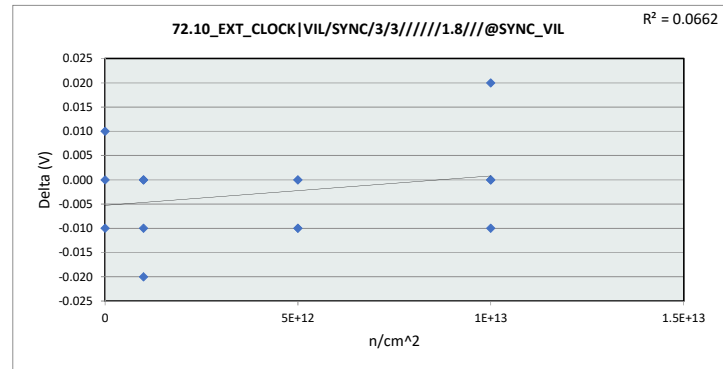


| 72.9_EXT_CLOCK VIH/SYNC/3/3/////1.8 |       |       |       |       |
|-------------------------------------|-------|-------|-------|-------|
| Test Site                           |       |       |       |       |
| Tester                              |       |       |       |       |
| Test Number                         |       |       |       |       |
| Max Limit                           | 1.38  |       | V     |       |
| Min Limit                           | 0.5   |       | V     |       |
| n/cm <sup>2</sup>                   | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                  | 0.500 | 0.500 | 0.500 | 0.500 |
| Min                                 | 1.190 | 1.180 | 1.180 | 1.190 |
| Average                             | 1.193 | 1.193 | 1.195 | 1.195 |
| Max                                 | 1.200 | 1.200 | 1.210 | 1.200 |
| UL                                  | 1.380 | 1.380 | 1.380 | 1.380 |

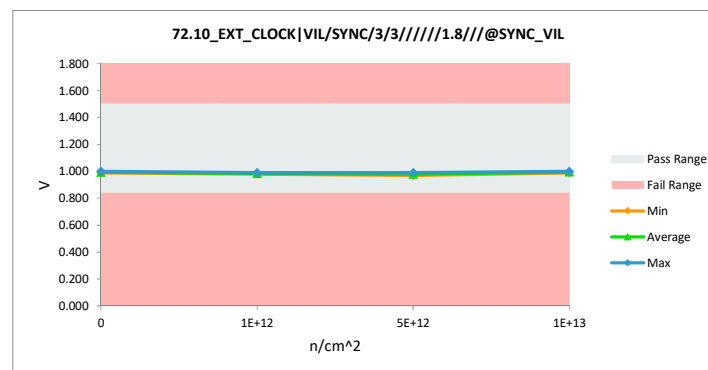


## NDD Report TPS7H4102-SP

| 72.10_EXT_CLOCK VIL/SYNC/3/3/////////1.8///@SYNC_VIL |          |                     |                    |        |
|------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                            |          |                     |                    |        |
| Tester                                               |          |                     |                    |        |
| Test Number                                          |          |                     |                    |        |
| Unit                                                 | V        |                     | V                  |        |
| Max Limit                                            | 1.632    |                     | 1.5                |        |
| Min Limit                                            | 0.8      |                     | 0.84               |        |
| n/cm^2                                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                    | 1        | 1.000               | 0.990              | -0.010 |
| 0                                                    | 2        | 0.990               | 1.000              | 0.010  |
| 0                                                    | 3        | 0.990               | 0.990              | 0.000  |
| 1E+12                                                | 30       | 1.000               | 0.980              | -0.020 |
| 1E+12                                                | 31       | 0.990               | 0.980              | -0.010 |
| 1E+12                                                | 32       | 0.990               | 0.990              | 0.000  |
| 1E+12                                                | 33       | 0.990               | 0.990              | 0.000  |
| 5E+12                                                | 34       | 0.990               | 0.990              | 0.000  |
| 5E+12                                                | 35       | 0.990               | 0.990              | 0.000  |
| 5E+12                                                | 36       | 0.980               | 0.970              | -0.010 |
| 5E+12                                                | 37       | 0.980               | 0.970              | -0.010 |
| 1E+13                                                | 38       | 0.980               | 1.000              | 0.020  |
| 1E+13                                                | 39       | 1.000               | 0.990              | -0.010 |
| 1E+13                                                | 40       | 0.990               | 0.990              | 0.000  |
| 1E+13                                                | 41       | 1.000               | 1.000              | 0.000  |
| Max                                                  |          | 1.000               | 1.000              | 0.020  |
| Average                                              |          | 0.991               | 0.988              | -0.003 |
| Min                                                  |          | 0.980               | 0.970              | -0.020 |
| Std Dev                                              |          | 0.007               | 0.009              | 0.010  |



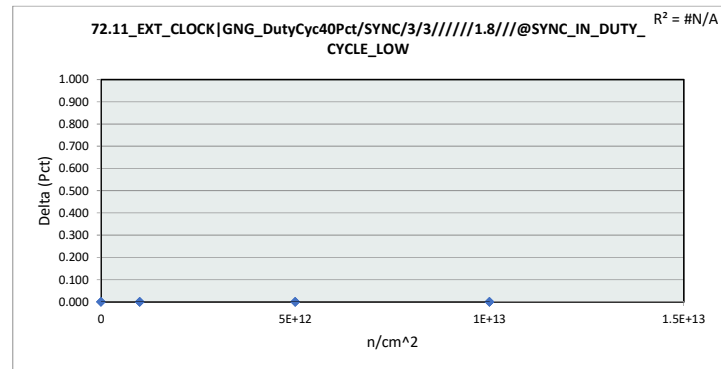
| 72.10_EXT_CLOCK VIL/SYNC/3/3/////////1.8///@SYNC_VIL |       |       |       |       |
|------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                            |       |       |       |       |
| Tester                                               |       |       |       |       |
| Test Number                                          |       |       |       |       |
| Max Limit                                            | 1.5   |       | V     |       |
| Min Limit                                            | 0.84  |       | V     |       |
| n/cm^2                                               | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                   | 0.840 | 0.840 | 0.840 | 0.840 |
| Min                                                  | 0.990 | 0.980 | 0.970 | 0.990 |
| Average                                              | 0.993 | 0.985 | 0.980 | 0.995 |
| Max                                                  | 1.000 | 0.990 | 0.990 | 1.000 |
| UL                                                   | 1.500 | 1.500 | 1.500 | 1.500 |



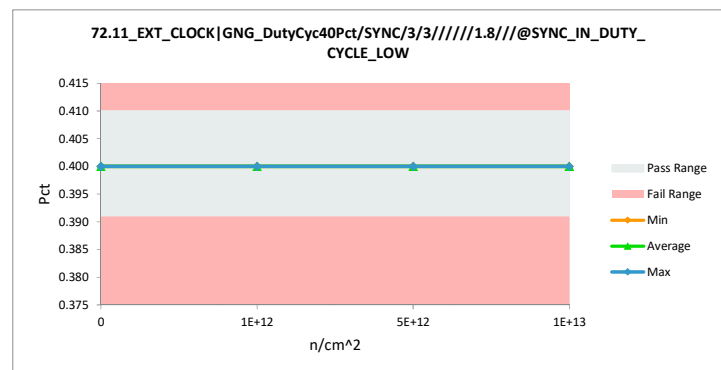


## NDD Report TPS7H4102-SP

| 72.11_EXT_CLOCK GNG_DutyCyc40Pct/S |          |                     |                    |       |
|------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                          |          |                     |                    |       |
| Tester                             |          |                     |                    |       |
| Test Number                        |          |                     |                    |       |
| Unit                               | Pct      | Pct                 |                    |       |
| Max Limit                          | 0.4138   | 0.41                |                    |       |
| Min Limit                          | 0.39     | 0.391               |                    |       |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                  | 1        | 0.400               | 0.400              | 0.000 |
| 0                                  | 2        | 0.400               | 0.400              | 0.000 |
| 0                                  | 3        | 0.400               | 0.400              | 0.000 |
| 1E+12                              | 30       | 0.400               | 0.400              | 0.000 |
| 1E+12                              | 31       | 0.400               | 0.400              | 0.000 |
| 1E+12                              | 32       | 0.400               | 0.400              | 0.000 |
| 1E+12                              | 33       | 0.400               | 0.400              | 0.000 |
| 5E+12                              | 34       | 0.400               | 0.400              | 0.000 |
| 5E+12                              | 35       | 0.400               | 0.400              | 0.000 |
| 5E+12                              | 36       | 0.400               | 0.400              | 0.000 |
| 5E+12                              | 37       | 0.400               | 0.400              | 0.000 |
| 1E+13                              | 38       | 0.400               | 0.400              | 0.000 |
| 1E+13                              | 39       | 0.400               | 0.400              | 0.000 |
| 1E+13                              | 40       | 0.400               | 0.400              | 0.000 |
| 1E+13                              | 41       | 0.400               | 0.400              | 0.000 |
|                                    | Max      | 0.400               | 0.400              | 0.000 |
|                                    | Average  | 0.400               | 0.400              | 0.000 |
|                                    | Min      | 0.400               | 0.400              | 0.000 |
|                                    | Std Dev  | 0.000               | 0.000              | 0.000 |

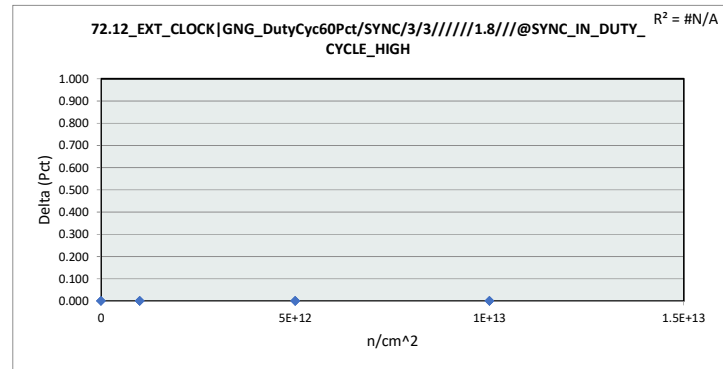


| 72.11_EXT_CLOCK GNG_DutyCyc40Pct/S |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|
| Test Site                          |       |       |       |       |
| Tester                             |       |       |       |       |
| Test Number                        |       |       |       |       |
| Max Limit                          | 0.41  | Pct   |       |       |
| Min Limit                          | 0.391 | Pct   |       |       |
| n/cm^2                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                 | 0.391 | 0.391 | 0.391 | 0.391 |
| Min                                | 0.400 | 0.400 | 0.400 | 0.400 |
| Average                            | 0.400 | 0.400 | 0.400 | 0.400 |
| Max                                | 0.400 | 0.400 | 0.400 | 0.400 |
| UL                                 | 0.410 | 0.410 | 0.410 | 0.410 |

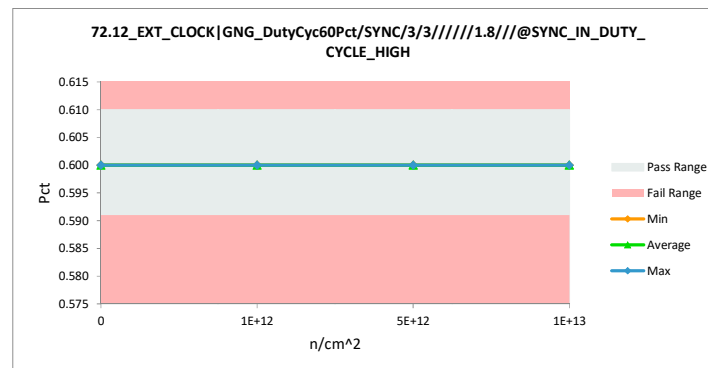


## NDD Report TPS7H4102-SP

| 72.12_EXT_CLOCK GNG_DutyCyc60Pct/S |          |                     |                    |       |
|------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                          |          |                     |                    |       |
| Tester                             |          |                     |                    |       |
| Test Number                        |          |                     |                    |       |
| Unit                               | Pct      | Pct                 |                    |       |
| Max Limit                          | 0.6138   | 0.61                |                    |       |
| Min Limit                          | 0.59     | 0.591               |                    |       |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                  | 1        | 0.600               | 0.600              | 0.000 |
| 0                                  | 2        | 0.600               | 0.600              | 0.000 |
| 0                                  | 3        | 0.600               | 0.600              | 0.000 |
| 1E+12                              | 30       | 0.600               | 0.600              | 0.000 |
| 1E+12                              | 31       | 0.600               | 0.600              | 0.000 |
| 1E+12                              | 32       | 0.600               | 0.600              | 0.000 |
| 1E+12                              | 33       | 0.600               | 0.600              | 0.000 |
| 5E+12                              | 34       | 0.600               | 0.600              | 0.000 |
| 5E+12                              | 35       | 0.600               | 0.600              | 0.000 |
| 5E+12                              | 36       | 0.600               | 0.600              | 0.000 |
| 5E+12                              | 37       | 0.600               | 0.600              | 0.000 |
| 1E+13                              | 38       | 0.600               | 0.600              | 0.000 |
| 1E+13                              | 39       | 0.600               | 0.600              | 0.000 |
| 1E+13                              | 40       | 0.600               | 0.600              | 0.000 |
| 1E+13                              | 41       | 0.600               | 0.600              | 0.000 |
|                                    | Max      | 0.600               | 0.600              | 0.000 |
|                                    | Average  | 0.600               | 0.600              | 0.000 |
|                                    | Min      | 0.600               | 0.600              | 0.000 |
|                                    | Std Dev  | 0.000               | 0.000              | 0.000 |

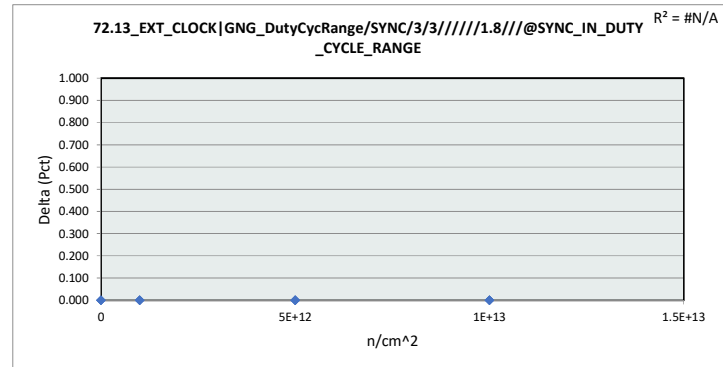


| 72.12_EXT_CLOCK GNG_DutyCyc60Pct/S |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|
| Test Site                          |       |       |       |       |
| Tester                             |       |       |       |       |
| Test Number                        |       |       |       |       |
| Max Limit                          | 0.61  | Pct   |       |       |
| Min Limit                          | 0.591 | Pct   |       |       |
| n/cm^2                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                 | 0.591 | 0.591 | 0.591 | 0.591 |
| Min                                | 0.600 | 0.600 | 0.600 | 0.600 |
| Average                            | 0.600 | 0.600 | 0.600 | 0.600 |
| Max                                | 0.600 | 0.600 | 0.600 | 0.600 |
| UL                                 | 0.610 | 0.610 | 0.610 | 0.610 |

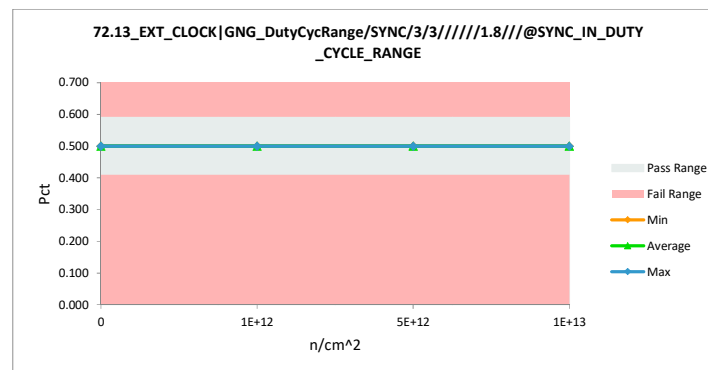


## NDD Report TPS7H4102-SP

| 72.13_EXT_CLOCK GNG_DutyCycRange/S |          |                     |                    |       |
|------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                          |          |                     |                    |       |
| Tester                             |          |                     |                    |       |
| Test Number                        |          |                     |                    |       |
| Unit                               | Pct      | Pct                 |                    |       |
| Max Limit                          | 0.6      | 0.59                |                    |       |
| Min Limit                          | 0.4      | 0.41                |                    |       |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                  | 1        | 0.500               | 0.500              | 0.000 |
| 0                                  | 2        | 0.500               | 0.500              | 0.000 |
| 0                                  | 3        | 0.500               | 0.500              | 0.000 |
| 1E+12                              | 30       | 0.500               | 0.500              | 0.000 |
| 1E+12                              | 31       | 0.500               | 0.500              | 0.000 |
| 1E+12                              | 32       | 0.500               | 0.500              | 0.000 |
| 1E+12                              | 33       | 0.500               | 0.500              | 0.000 |
| 5E+12                              | 34       | 0.500               | 0.500              | 0.000 |
| 5E+12                              | 35       | 0.500               | 0.500              | 0.000 |
| 5E+12                              | 36       | 0.500               | 0.500              | 0.000 |
| 5E+12                              | 37       | 0.500               | 0.500              | 0.000 |
| 1E+13                              | 38       | 0.500               | 0.500              | 0.000 |
| 1E+13                              | 39       | 0.500               | 0.500              | 0.000 |
| 1E+13                              | 40       | 0.500               | 0.500              | 0.000 |
| 1E+13                              | 41       | 0.500               | 0.500              | 0.000 |
|                                    | Max      | 0.500               | 0.500              | 0.000 |
|                                    | Average  | 0.500               | 0.500              | 0.000 |
|                                    | Min      | 0.500               | 0.500              | 0.000 |
|                                    | Std Dev  | 0.000               | 0.000              | 0.000 |

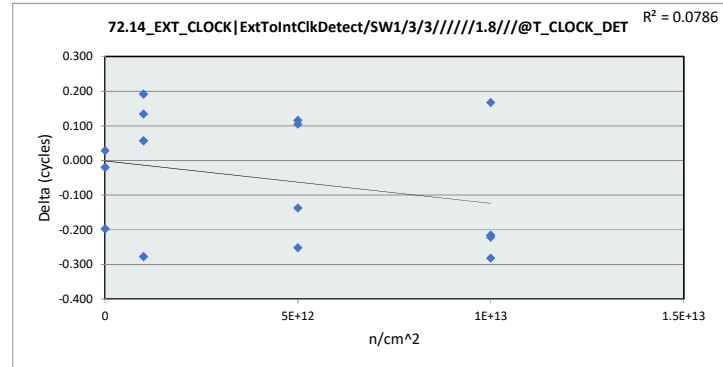


| 72.13_EXT_CLOCK GNG_DutyCycRange/S |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|
| Test Site                          |       |       |       |       |
| Tester                             |       |       |       |       |
| Test Number                        |       |       |       |       |
| Max Limit                          | 0.59  | Pct   |       |       |
| Min Limit                          | 0.41  | Pct   |       |       |
| n/cm^2                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                 | 0.410 | 0.410 | 0.410 | 0.410 |
| Min                                | 0.500 | 0.500 | 0.500 | 0.500 |
| Average                            | 0.500 | 0.500 | 0.500 | 0.500 |
| Max                                | 0.500 | 0.500 | 0.500 | 0.500 |
| UL                                 | 0.590 | 0.590 | 0.590 | 0.590 |

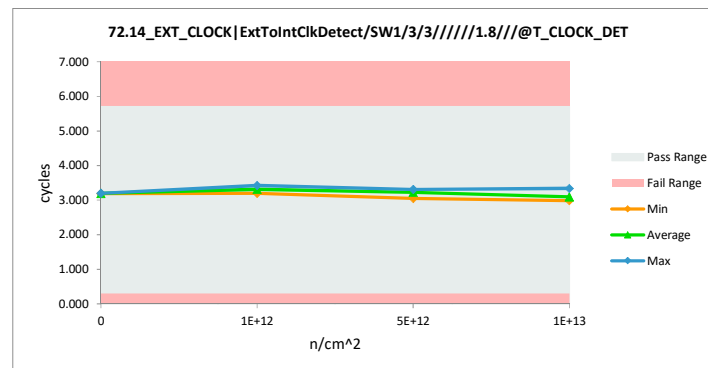


## NDD Report TPS7H4102-SP

| 72.14_EXT_CLOCK ExtToIntClkDetect/SW1/3/3/////1.8///@T_CLOCK_DET |          |                     |                    |        |
|------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                        |          |                     |                    |        |
| Tester                                                           |          |                     |                    |        |
| Test Number                                                      |          |                     |                    |        |
| Unit                                                             | cycles   | cycles              |                    |        |
| Max Limit                                                        | 6        | 5.7                 |                    |        |
| Min Limit                                                        | -0.78    | 0.3                 |                    |        |
| n/cm^2                                                           | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                | 1        | 3.391               | 3.194              | -0.197 |
| 0                                                                | 2        | 3.208               | 3.188              | -0.020 |
| 0                                                                | 3        | 3.171               | 3.200              | 0.029  |
| 1E+12                                                            | 30       | 3.320               | 3.376              | 0.057  |
| 1E+12                                                            | 31       | 3.537               | 3.260              | -0.278 |
| 1E+12                                                            | 32       | 3.233               | 3.424              | 0.192  |
| 1E+12                                                            | 33       | 3.062               | 3.196              | 0.134  |
| 5E+12                                                            | 34       | 3.198               | 3.314              | 0.116  |
| 5E+12                                                            | 35       | 3.300               | 3.048              | -0.252 |
| 5E+12                                                            | 36       | 3.397               | 3.259              | -0.138 |
| 5E+12                                                            | 37       | 3.174               | 3.279              | 0.105  |
| 1E+13                                                            | 38       | 3.284               | 3.002              | -0.282 |
| 1E+13                                                            | 39       | 3.172               | 3.339              | 0.167  |
| 1E+13                                                            | 40       | 3.266               | 3.050              | -0.216 |
| 1E+13                                                            | 41       | 3.209               | 2.987              | -0.222 |
|                                                                  | Max      | 3.537               | 3.424              | 0.192  |
|                                                                  | Average  | 3.261               | 3.208              | -0.054 |
|                                                                  | Min      | 3.062               | 2.987              | -0.282 |
|                                                                  | Std Dev  | 0.117               | 0.135              | 0.178  |

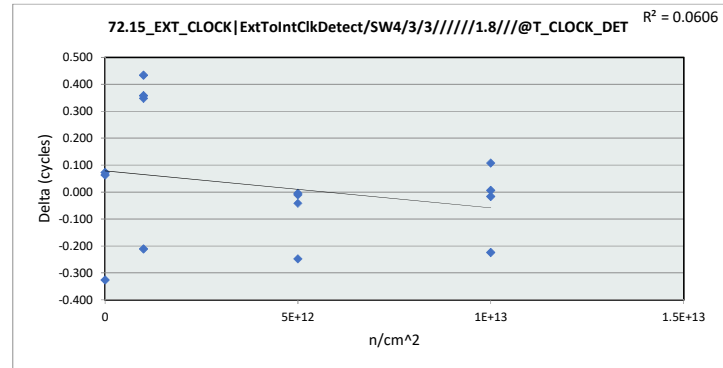


| 72.14_EXT_CLOCK ExtToIntClkDetect/SW1/3/3/////1.8///@T_CLOCK_DET |       |        |       |       |
|------------------------------------------------------------------|-------|--------|-------|-------|
| Test Site                                                        |       |        |       |       |
| Tester                                                           |       |        |       |       |
| Test Number                                                      |       |        |       |       |
| Max Limit                                                        | 5.7   | cycles |       |       |
| Min Limit                                                        | 0.3   | cycles |       |       |
| n/cm^2                                                           | 0     | 1E+12  | 5E+12 | 1E+13 |
| LL                                                               | 0.300 | 0.300  | 0.300 | 0.300 |
| Min                                                              | 3.188 | 3.196  | 3.048 | 2.987 |
| Average                                                          | 3.194 | 3.314  | 3.225 | 3.095 |
| Max                                                              | 3.200 | 3.425  | 3.314 | 3.340 |
| UL                                                               | 5.700 | 5.700  | 5.700 | 5.700 |

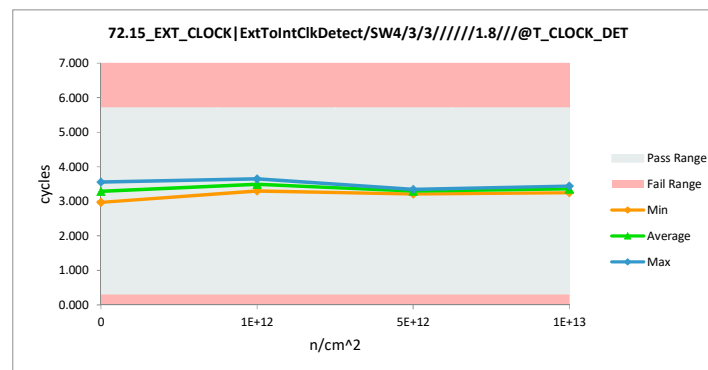


## NDD Report TPS7H4102-SP

| 72.15_EXT_CLOCK ExtToIntClkDetect/SW4 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | cycles   |                     | cycles             |        |
| Max Limit                             | 6        |                     | 5.7                |        |
| Min Limit                             | -0.78    |                     | 0.3                |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 3.295               | 2.969              | -0.326 |
| 0                                     | 2        | 3.272               | 3.336              | 0.064  |
| 0                                     | 3        | 3.486               | 3.558              | 0.072  |
| 1E+12                                 | 30       | 3.509               | 3.298              | -0.211 |
| 1E+12                                 | 31       | 3.301               | 3.649              | 0.348  |
| 1E+12                                 | 32       | 3.138               | 3.496              | 0.358  |
| 1E+12                                 | 33       | 3.090               | 3.523              | 0.434  |
| 5E+12                                 | 34       | 3.334               | 3.292              | -0.042 |
| 5E+12                                 | 35       | 3.349               | 3.345              | -0.004 |
| 5E+12                                 | 36       | 3.336               | 3.326              | -0.010 |
| 5E+12                                 | 37       | 3.461               | 3.212              | -0.248 |
| 1E+13                                 | 38       | 3.471               | 3.247              | -0.224 |
| 1E+13                                 | 39       | 3.341               | 3.325              | -0.016 |
| 1E+13                                 | 40       | 3.332               | 3.439              | 0.108  |
| 1E+13                                 | 41       | 3.408               | 3.413              | 0.006  |
|                                       | Max      | 3.509               | 3.649              | 0.434  |
|                                       | Average  | 3.342               | 3.362              | 0.020  |
|                                       | Min      | 3.090               | 2.969              | -0.326 |
|                                       | Std Dev  | 0.119               | 0.164              | 0.226  |

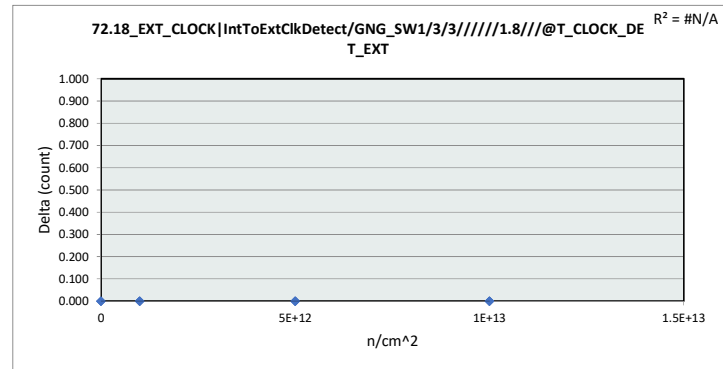


| 72.15_EXT_CLOCK ExtToIntClkDetect/SW4 |       |       |        |       |
|---------------------------------------|-------|-------|--------|-------|
| Test Site                             |       |       |        |       |
| Tester                                |       |       |        |       |
| Test Number                           |       |       |        |       |
| Max Limit                             | 5.7   |       | cycles |       |
| Min Limit                             | 0.3   |       | cycles |       |
| n/cm^2                                | 0     | 1E+12 | 5E+12  | 1E+13 |
| LL                                    | 0.300 | 0.300 | 0.300  | 0.300 |
| Min                                   | 2.969 | 3.298 | 3.212  | 3.247 |
| Average                               | 3.288 | 3.492 | 3.294  | 3.356 |
| Max                                   | 3.558 | 3.649 | 3.345  | 3.439 |
| UL                                    | 5.700 | 5.700 | 5.700  | 5.700 |

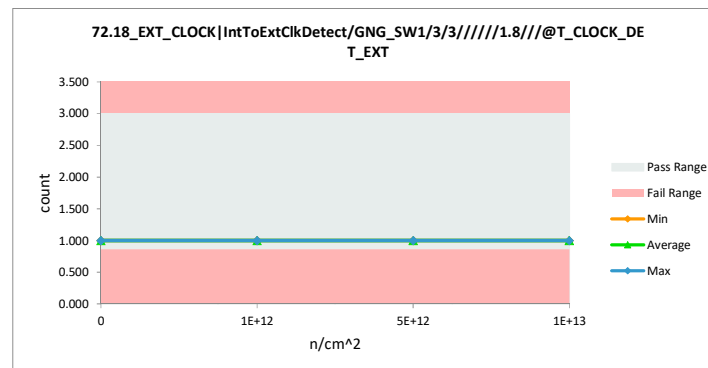


## NDD Report TPS7H4102-SP

| 72.18_EXT_CLOCK IntToExtClkDetect/GN |          |                     |                    |       |
|--------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                            |          |                     |                    |       |
| Tester                               |          |                     |                    |       |
| Test Number                          |          |                     |                    |       |
| Unit                                 | count    | count               |                    |       |
| Max Limit                            | 3        | 3                   |                    |       |
| Min Limit                            | 0.432    | 0.86                |                    |       |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                    | 1        | 1.000               | 1.000              | 0.000 |
| 0                                    | 2        | 1.000               | 1.000              | 0.000 |
| 0                                    | 3        | 1.000               | 1.000              | 0.000 |
| 1E+12                                | 30       | 1.000               | 1.000              | 0.000 |
| 1E+12                                | 31       | 1.000               | 1.000              | 0.000 |
| 1E+12                                | 32       | 1.000               | 1.000              | 0.000 |
| 1E+12                                | 33       | 1.000               | 1.000              | 0.000 |
| 5E+12                                | 34       | 1.000               | 1.000              | 0.000 |
| 5E+12                                | 35       | 1.000               | 1.000              | 0.000 |
| 5E+12                                | 36       | 1.000               | 1.000              | 0.000 |
| 5E+12                                | 37       | 1.000               | 1.000              | 0.000 |
| 1E+13                                | 38       | 1.000               | 1.000              | 0.000 |
| 1E+13                                | 39       | 1.000               | 1.000              | 0.000 |
| 1E+13                                | 40       | 1.000               | 1.000              | 0.000 |
| 1E+13                                | 41       | 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 |

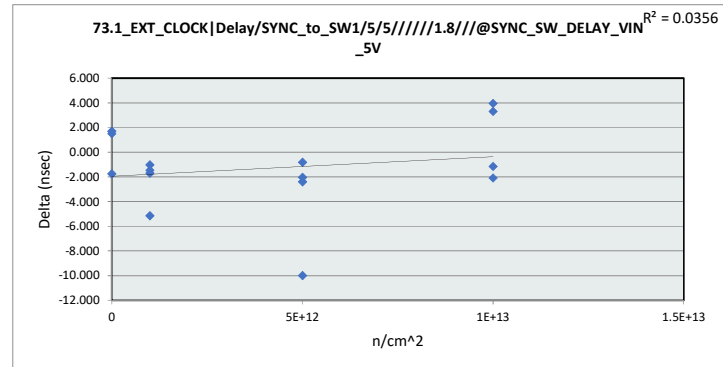


| 72.18_EXT_CLOCK IntToExtClk |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| Test Site                   |       |       |       |       |
| Tester                      |       |       |       |       |
| Test Number                 |       |       |       |       |
| Max Limit                   | 3     | count |       |       |
| Min Limit                   | 0.86  | count |       |       |
| n/cm^2                      | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                          | 0.860 | 0.860 | 0.860 | 0.860 |
| Min                         | 1.000 | 1.000 | 1.000 | 1.000 |
| Average                     | 1.000 | 1.000 | 1.000 | 1.000 |
| Max                         | 1.000 | 1.000 | 1.000 | 1.000 |
| UL                          | 3.000 | 3.000 | 3.000 | 3.000 |

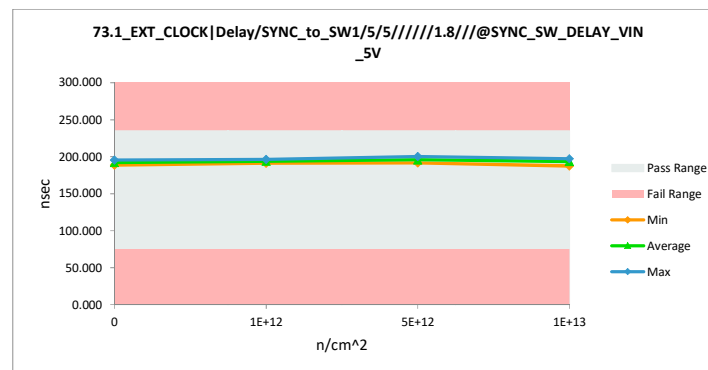


## NDD Report TPS7H4102-SP

| 73.1_EXT_CLOCK Delay/SYNC_to_SW1/5 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | nsec     | nsec                |                    |        |
| Max Limit                          | 240      | 235                 |                    |        |
| Min Limit                          | 44.2     | 75                  |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 193.738             | 195.436            | 1.698  |
| 0                                  | 2        | 190.362             | 191.871            | 1.509  |
| 0                                  | 3        | 190.214             | 188.470            | -1.744 |
| 1E+12                              | 30       | 198.010             | 192.855            | -5.155 |
| 1E+12                              | 31       | 197.251             | 196.234            | -1.017 |
| 1E+12                              | 32       | 196.717             | 195.258            | -1.459 |
| 1E+12                              | 33       | 192.866             | 191.174            | -1.691 |
| 5E+12                              | 34       | 198.084             | 196.057            | -2.027 |
| 5E+12                              | 35       | 197.878             | 195.469            | -2.409 |
| 5E+12                              | 36       | 201.105             | 200.287            | -0.818 |
| 5E+12                              | 37       | 201.674             | 191.676            | -9.998 |
| 1E+13                              | 38       | 189.583             | 187.503            | -2.080 |
| 1E+13                              | 39       | 193.367             | 197.318            | 3.952  |
| 1E+13                              | 40       | 193.619             | 196.923            | 3.305  |
| 1E+13                              | 41       | 193.863             | 192.722            | -1.140 |
|                                    | Max      | 201.674             | 200.287            | 3.952  |
|                                    | Average  | 195.222             | 193.950            | -1.272 |
|                                    | Min      | 189.583             | 187.503            | -9.998 |
|                                    | Std Dev  | 3.796               | 3.461              | 3.373  |

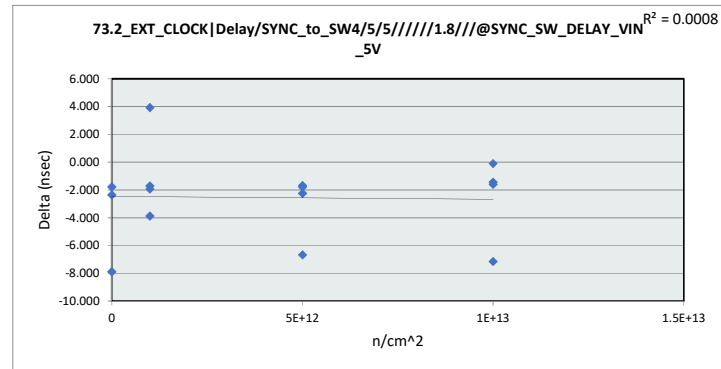


| 73.1_EXT_CLOCK Delay/SYNC |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 235     | nsec    |         |         |
| Min Limit                 | 75      | nsec    |         |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 75.000  | 75.000  | 75.000  | 75.000  |
| Min                       | 188.470 | 191.175 | 191.676 | 187.503 |
| Average                   | 191.926 | 193.880 | 195.872 | 193.617 |
| Max                       | 195.436 | 196.234 | 200.287 | 197.319 |
| UL                        | 235.000 | 235.000 | 235.000 | 235.000 |

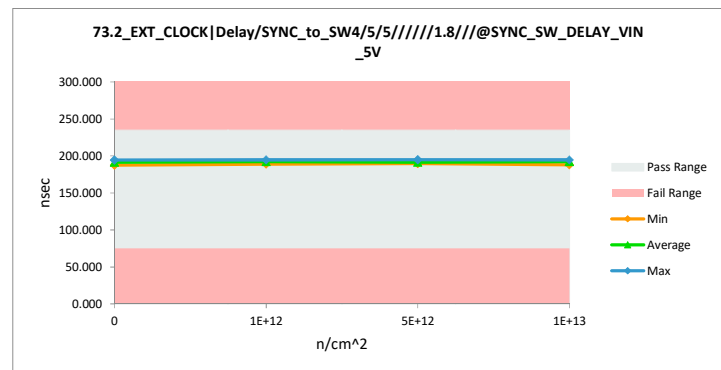


## NDD Report TPS7H4102-SP

| 73.2_EXT_CLOCK Delay/SYNC_to_SW4/5 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | nsec     | nsec                |                    |        |
| Max Limit                          | 240      | 235                 |                    |        |
| Min Limit                          | 44.2     | 75                  |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 196.293             | 194.517            | -1.776 |
| 0                                  | 2        | 195.286             | 187.402            | -7.884 |
| 0                                  | 3        | 195.209             | 192.842            | -2.367 |
| 1E+12                              | 30       | 196.164             | 192.292            | -3.872 |
| 1E+12                              | 31       | 190.846             | 194.773            | 3.927  |
| 1E+12                              | 32       | 190.832             | 189.108            | -1.723 |
| 1E+12                              | 33       | 195.644             | 193.706            | -1.939 |
| 5E+12                              | 34       | 191.533             | 189.749            | -1.784 |
| 5E+12                              | 35       | 193.226             | 190.983            | -2.242 |
| 5E+12                              | 36       | 196.484             | 194.805            | -1.679 |
| 5E+12                              | 37       | 197.696             | 191.020            | -6.676 |
| 1E+13                              | 38       | 195.179             | 193.744            | -1.435 |
| 1E+13                              | 39       | 194.811             | 194.721            | -0.090 |
| 1E+13                              | 40       | 195.174             | 188.032            | -7.142 |
| 1E+13                              | 41       | 195.301             | 193.714            | -1.587 |
|                                    | Max      | 197.696             | 194.805            | 3.927  |
|                                    | Average  | 194.645             | 192.094            | -2.551 |
|                                    | Min      | 190.832             | 187.402            | -7.884 |
|                                    | Std Dev  | 2.090               | 2.552              | 2.947  |



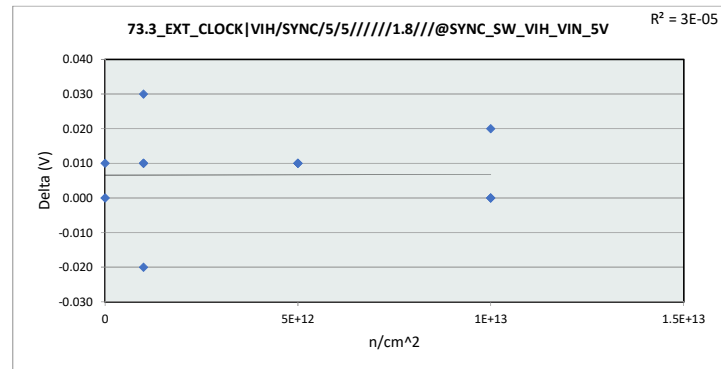
| 73.2_EXT_CLOCK Delay/SYNC |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 235     | nsec    |         |         |
| Min Limit                 | 75      | nsec    |         |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 75.000  | 75.000  | 75.000  | 75.000  |
| Min                       | 187.402 | 189.108 | 189.749 | 188.032 |
| Average                   | 191.587 | 192.470 | 191.639 | 192.553 |
| Max                       | 194.517 | 194.773 | 194.805 | 194.722 |
| UL                        | 235.000 | 235.000 | 235.000 | 235.000 |



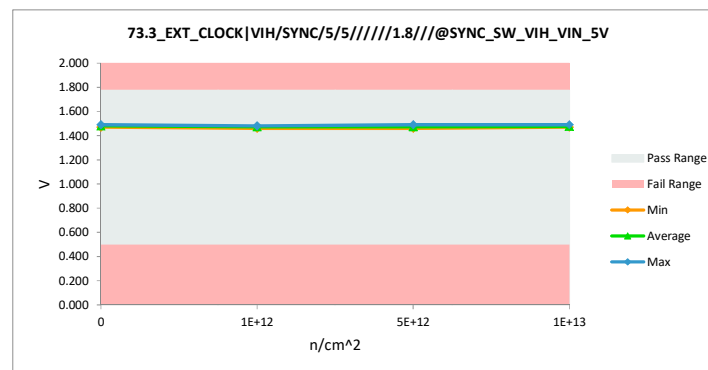


## NDD Report TPS7H4102-SP

| 73.3_EXT_CLOCK VIH/SYNC/5/5/////1.8 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | V        |                     | V                  |        |
| Max Limit                           | 1.8      |                     | 1.775              |        |
| Min Limit                           | 0.245    |                     | 0.5                |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 1.480               | 1.480              | 0.000  |
| 0                                   | 2        | 1.480               | 1.490              | 0.010  |
| 0                                   | 3        | 1.470               | 1.470              | 0.000  |
| 1E+12                               | 30       | 1.480               | 1.460              | -0.020 |
| 1E+12                               | 31       | 1.450               | 1.480              | 0.030  |
| 1E+12                               | 32       | 1.460               | 1.470              | 0.010  |
| 1E+12                               | 33       | 1.470               | 1.480              | 0.010  |
| 5E+12                               | 34       | 1.480               | 1.490              | 0.010  |
| 5E+12                               | 35       | 1.470               | 1.480              | 0.010  |
| 5E+12                               | 36       | 1.450               | 1.460              | 0.010  |
| 5E+12                               | 37       | 1.450               | 1.460              | 0.010  |
| 1E+13                               | 38       | 1.470               | 1.470              | 0.000  |
| 1E+13                               | 39       | 1.470               | 1.470              | 0.000  |
| 1E+13                               | 40       | 1.470               | 1.470              | 0.000  |
| 1E+13                               | 41       | 1.470               | 1.490              | 0.020  |
|                                     | Max      | 1.480               | 1.490              | 0.030  |
|                                     | Average  | 1.468               | 1.475              | 0.007  |
|                                     | Min      | 1.450               | 1.460              | -0.020 |
|                                     | Std Dev  | 0.011               | 0.011              | 0.011  |

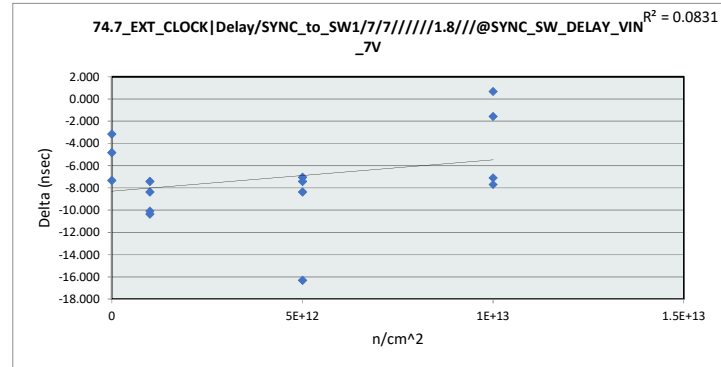


| 73.3_EXT_CLOCK VIH/SYNC/5/5/////1.8 |       |       |       |       |
|-------------------------------------|-------|-------|-------|-------|
| Test Site                           |       |       |       |       |
| Tester                              |       |       |       |       |
| Test Number                         |       |       |       |       |
| Max Limit                           | 1.775 |       | V     |       |
| Min Limit                           | 0.5   |       | V     |       |
| n/cm^2                              | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                  | 0.500 | 0.500 | 0.500 | 0.500 |
| Min                                 | 1.470 | 1.460 | 1.460 | 1.470 |
| Average                             | 1.480 | 1.473 | 1.473 | 1.475 |
| Max                                 | 1.490 | 1.480 | 1.490 | 1.490 |
| UL                                  | 1.775 | 1.775 | 1.775 | 1.775 |

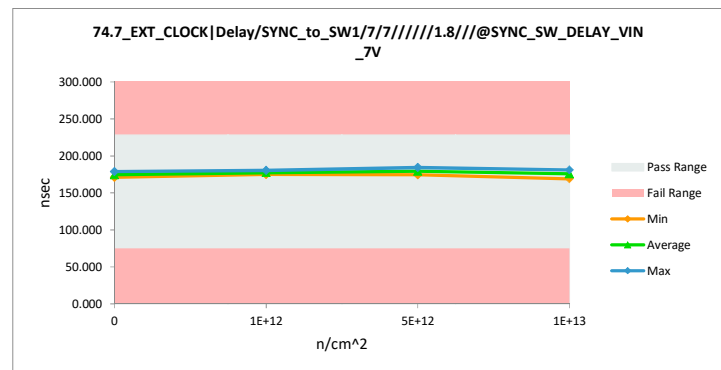


## NDD Report TPS7H4102-SP

| 74.7_EXT_CLOCK Delay/SYNC_to_SW1/7 |          |                     |                    |         |
|------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                          |          |                     |                    |         |
| Tester                             |          |                     |                    |         |
| Test Number                        |          |                     |                    |         |
| Unit                               | nsec     |                     | nsec               |         |
| Max Limit                          | 238      |                     | 228                |         |
| Min Limit                          | 45.2     |                     | 75                 |         |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                  | 1        | 182.020             | 178.868            | -3.152  |
| 0                                  | 2        | 179.122             | 174.298            | -4.825  |
| 0                                  | 3        | 178.327             | 170.998            | -7.329  |
| 1E+12                              | 30       | 185.300             | 174.953            | -10.348 |
| 1E+12                              | 31       | 188.724             | 178.649            | -10.074 |
| 1E+12                              | 32       | 188.862             | 180.487            | -8.376  |
| 1E+12                              | 33       | 183.113             | 175.684            | -7.430  |
| 5E+12                              | 34       | 189.157             | 181.729            | -7.428  |
| 5E+12                              | 35       | 185.626             | 177.256            | -8.370  |
| 5E+12                              | 36       | 191.366             | 184.325            | -7.041  |
| 5E+12                              | 37       | 190.817             | 174.506            | -16.312 |
| 1E+13                              | 38       | 176.681             | 168.998            | -7.683  |
| 1E+13                              | 39       | 180.650             | 181.307            | 0.657   |
| 1E+13                              | 40       | 180.868             | 179.298            | -1.570  |
| 1E+13                              | 41       | 180.932             | 173.825            | -7.107  |
|                                    | Max      | 191.366             | 184.325            | 0.657   |
|                                    | Average  | 184.104             | 177.012            | -7.092  |
|                                    | Min      | 176.681             | 168.998            | -16.312 |
|                                    | Std Dev  | 4.797               | 4.208              | 3.961   |



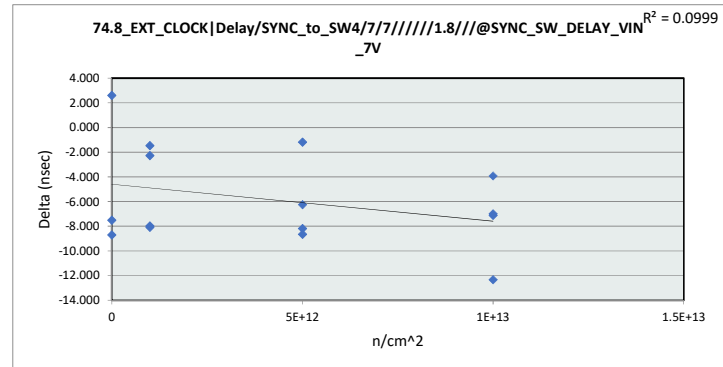
| 74.7_EXT_CLOCK Delay/SYNC |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 228     |         | nsec    |         |
| Min Limit                 | 75      |         | nsec    |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | 75.000  | 75.000  | 75.000  | 75.000  |
| Min                       | 170.998 | 174.953 | 174.506 | 168.998 |
| Average                   | 174.721 | 177.443 | 179.454 | 175.857 |
| Max                       | 178.868 | 180.487 | 184.325 | 181.308 |
| UL                        | 228.000 | 228.000 | 228.000 | 228.000 |



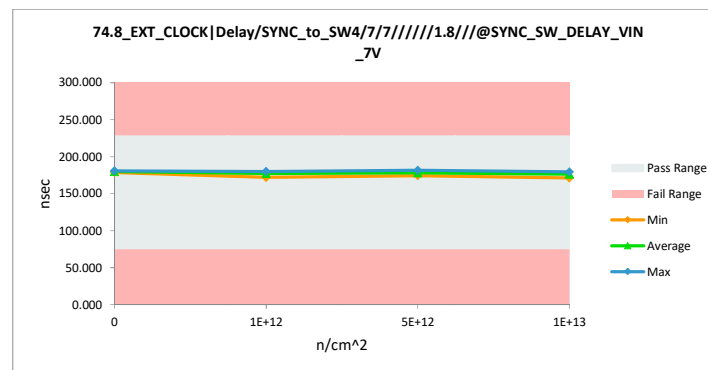
# NDD Report

## TPS7H4102-SP

|        |             | 74.8_EXT_CLOCK Delay/SYNC_to_SW4/7 |                    |         |
|--------|-------------|------------------------------------|--------------------|---------|
|        | Test Site   |                                    |                    |         |
|        | Tester      |                                    |                    |         |
|        | Test Number |                                    |                    |         |
|        | Unit        | nsec                               | nsec               |         |
|        | Max Limit   | 238                                | 228                |         |
|        | Min Limit   | 45.2                               | 75                 |         |
| n/cm^2 | Serial #    | Post_NDD_TPS7H4102-                | Pre_NDD_TPS7H4102- | Delta   |
| 0      | 1           | 178.241                            | 180.842            | 2.601   |
| 0      | 2           | 187.639                            | 180.135            | -7.505  |
| 0      | 3           | 187.411                            | 178.703            | -8.708  |
| 1E+12  | 30          | 180.374                            | 178.089            | -2.285  |
| 1E+12  | 31          | 181.563                            | 180.094            | -1.469  |
| 1E+12  | 32          | 179.954                            | 171.984            | -7.970  |
| 1E+12  | 33          | 187.616                            | 179.530            | -8.086  |
| 5E+12  | 34          | 180.725                            | 174.463            | -6.262  |
| 5E+12  | 35          | 182.753                            | 181.564            | -1.189  |
| 5E+12  | 36          | 187.236                            | 179.043            | -8.193  |
| 5E+12  | 37          | 186.695                            | 178.049            | -8.646  |
| 1E+13  | 38          | 185.924                            | 178.922            | -7.002  |
| 1E+13  | 39          | 183.383                            | 179.460            | -3.923  |
| 1E+13  | 40          | 183.526                            | 171.196            | -12.331 |
| 1E+13  | 41          | 183.583                            | 176.459            | -7.124  |
|        | Max         | 187.639                            | 181.564            | 2.601   |
|        | Average     | 183.775                            | 177.902            | -5.873  |
|        | Min         | 178.241                            | 171.196            | -12.331 |
|        | Std Dev     | 3.166                              | 3.092              | 3.851   |

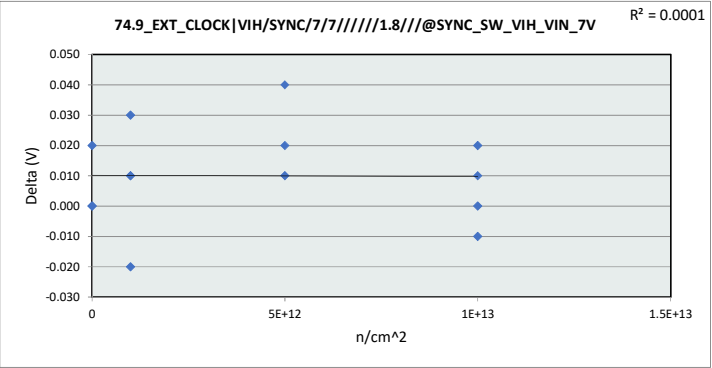


|             |         | 74.8_EXT_CLOCK Delay/SYNC |         |         |  |
|-------------|---------|---------------------------|---------|---------|--|
| Test Site   |         |                           |         |         |  |
| Tester      |         |                           |         |         |  |
| Test Number |         |                           |         |         |  |
| Max Limit   | 228     | nsec                      |         |         |  |
| Min Limit   | 75      | nsec                      |         |         |  |
| n/cm^2      | 0       | 1E+12                     | 5E+12   | 1E+13   |  |
| LL          | 75.000  | 75.000                    | 75.000  | 75.000  |  |
| Min         | 178.703 | 171.984                   | 174.463 | 171.196 |  |
| Average     | 179.893 | 177.424                   | 178.280 | 176.509 |  |
| Max         | 180.842 | 180.094                   | 181.564 | 179.460 |  |
| UL          | 228.000 | 228.000                   | 228.000 | 228.000 |  |

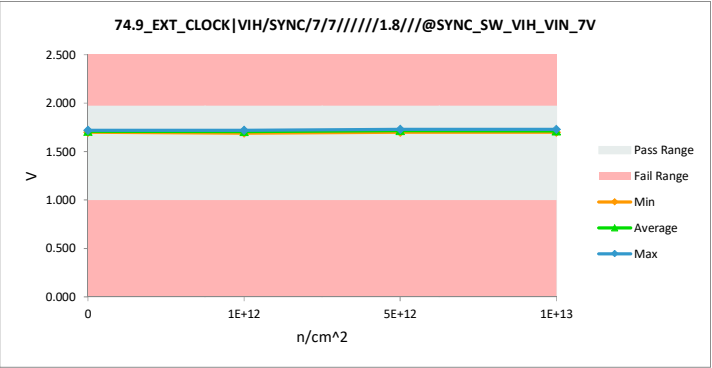


NDD Report  
TPS7H4102-SP

| 74.9_EXT_CLOCK VIH/SYNC/7/7/////1.8 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | V        |                     | V                  |        |
| Max Limit                           | 2        |                     | 1.97               |        |
| Min Limit                           | 0.806    |                     | 1                  |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 1.710               | 1.710              | 0.000  |
| 0                                   | 2        | 1.700               | 1.720              | 0.020  |
| 0                                   | 3        | 1.700               | 1.700              | 0.000  |
| 1E+12                               | 30       | 1.710               | 1.690              | -0.020 |
| 1E+12                               | 31       | 1.690               | 1.720              | 0.030  |
| 1E+12                               | 32       | 1.690               | 1.700              | 0.010  |
| 1E+12                               | 33       | 1.710               | 1.720              | 0.010  |
| 5E+12                               | 34       | 1.720               | 1.730              | 0.010  |
| 5E+12                               | 35       | 1.710               | 1.720              | 0.010  |
| 5E+12                               | 36       | 1.680               | 1.700              | 0.020  |
| 5E+12                               | 37       | 1.680               | 1.720              | 0.040  |
| 1E+13                               | 38       | 1.700               | 1.710              | 0.010  |
| 1E+13                               | 39       | 1.710               | 1.700              | -0.010 |
| 1E+13                               | 40       | 1.710               | 1.710              | 0.000  |
| 1E+13                               | 41       | 1.710               | 1.730              | 0.020  |
| Max                                 |          | 1.720               | 1.730              | 0.040  |
| Average                             |          | 1.702               | 1.712              | 0.010  |
| Min                                 |          | 1.680               | 1.690              | -0.020 |
| Std Dev                             |          | 0.012               | 0.012              | 0.015  |

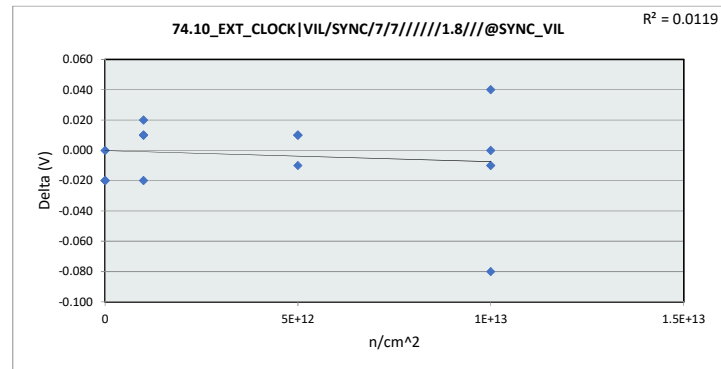


| 74.9_EXT_CLOCK VIH/SYNC/7/7/////1.8 |       |       |       |       |
|-------------------------------------|-------|-------|-------|-------|
| Test Site                           |       |       |       |       |
| Tester                              |       |       |       |       |
| Test Number                         |       |       |       |       |
| Max Limit                           | 1.97  |       | V     |       |
| Min Limit                           | 1     |       | V     |       |
| n/cm^2                              | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                  | 1.000 | 1.000 | 1.000 | 1.000 |
| Min                                 | 1.700 | 1.690 | 1.700 | 1.700 |
| Average                             | 1.710 | 1.708 | 1.718 | 1.713 |
| Max                                 | 1.720 | 1.720 | 1.730 | 1.730 |
| UL                                  | 1.970 | 1.970 | 1.970 | 1.970 |

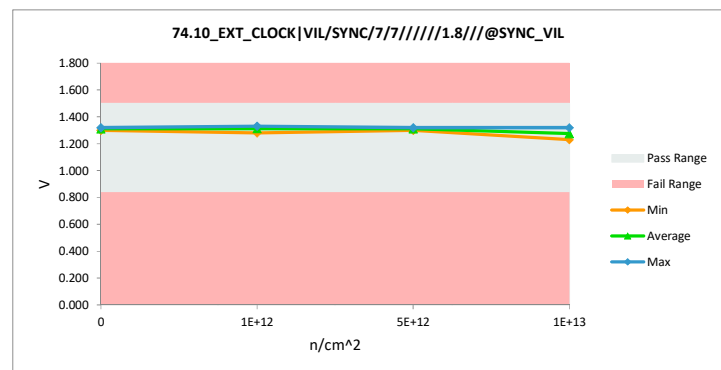


## NDD Report TPS7H4102-SP

| 74.10_EXT_CLOCK VIL/SYNC/7/7/////1.8///@SYNC_VIL |          |                     |                    |        |
|--------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                        |          |                     |                    |        |
| Tester                                           |          |                     |                    |        |
| Test Number                                      |          |                     |                    |        |
| Unit                                             | V        |                     | V                  |        |
| Max Limit                                        | 1.632    |                     | 1.5                |        |
| Min Limit                                        | 0.8      |                     | 0.84               |        |
| n/cm <sup>2</sup>                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                | 1        | 1.330               | 1.310              | -0.020 |
| 0                                                | 2        | 1.320               | 1.320              | 0.000  |
| 0                                                | 3        | 1.320               | 1.300              | -0.020 |
| 1E+12                                            | 30       | 1.310               | 1.320              | 0.010  |
| 1E+12                                            | 31       | 1.300               | 1.320              | 0.020  |
| 1E+12                                            | 32       | 1.300               | 1.280              | -0.020 |
| 1E+12                                            | 33       | 1.320               | 1.330              | 0.010  |
| 5E+12                                            | 34       | 1.310               | 1.320              | 0.010  |
| 5E+12                                            | 35       | 1.320               | 1.310              | -0.010 |
| 5E+12                                            | 36       | 1.290               | 1.300              | 0.010  |
| 5E+12                                            | 37       | 1.300               | 1.310              | 0.010  |
| 1E+13                                            | 38       | 1.300               | 1.300              | 0.000  |
| 1E+13                                            | 39       | 1.310               | 1.230              | -0.080 |
| 1E+13                                            | 40       | 1.260               | 1.250              | -0.010 |
| 1E+13                                            | 41       | 1.280               | 1.320              | 0.040  |
|                                                  | Max      | 1.330               | 1.330              | 0.040  |
|                                                  | Average  | 1.305               | 1.301              | -0.003 |
|                                                  | Min      | 1.260               | 1.230              | -0.080 |
|                                                  | Std Dev  | 0.018               | 0.028              | 0.027  |

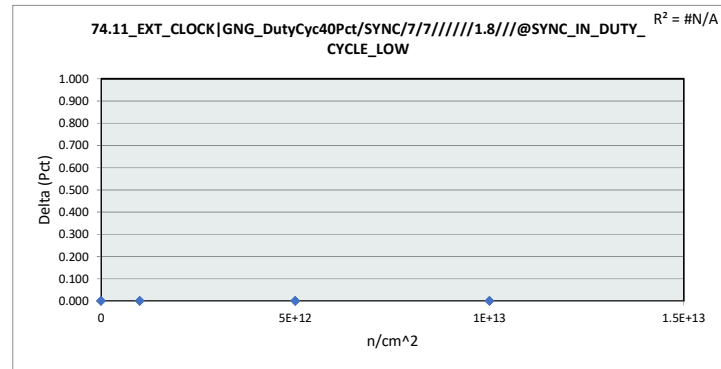


| 74.10_EXT_CLOCK VIL/SYNC/ |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 1.5   |       | V     |       |
| Min Limit                 | 0.84  |       | V     |       |
| n/cm <sup>2</sup>         | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 0.840 | 0.840 | 0.840 | 0.840 |
| Min                       | 1.300 | 1.280 | 1.300 | 1.230 |
| Average                   | 1.310 | 1.313 | 1.310 | 1.275 |
| Max                       | 1.320 | 1.330 | 1.320 | 1.320 |
| UL                        | 1.500 | 1.500 | 1.500 | 1.500 |

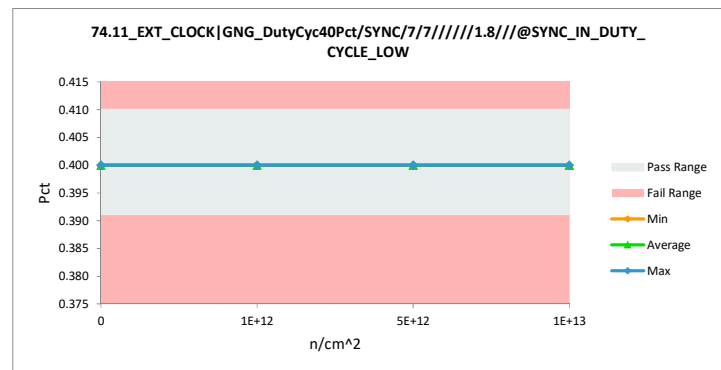


## NDD Report TPS7H4102-SP

| 74.11_EXT_CLOCK GNG_DutyCyc40Pct/S |          |                     |                    |       |
|------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                          |          |                     |                    |       |
| Tester                             |          |                     |                    |       |
| Test Number                        |          |                     |                    |       |
| Unit                               | Pct      | Pct                 |                    |       |
| Max Limit                          | 0.4138   | 0.41                |                    |       |
| Min Limit                          | 0.39     | 0.391               |                    |       |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                  | 1        | 0.400               | 0.400              | 0.000 |
| 0                                  | 2        | 0.400               | 0.400              | 0.000 |
| 0                                  | 3        | 0.400               | 0.400              | 0.000 |
| 1E+12                              | 30       | 0.400               | 0.400              | 0.000 |
| 1E+12                              | 31       | 0.400               | 0.400              | 0.000 |
| 1E+12                              | 32       | 0.400               | 0.400              | 0.000 |
| 1E+12                              | 33       | 0.400               | 0.400              | 0.000 |
| 5E+12                              | 34       | 0.400               | 0.400              | 0.000 |
| 5E+12                              | 35       | 0.400               | 0.400              | 0.000 |
| 5E+12                              | 36       | 0.400               | 0.400              | 0.000 |
| 5E+12                              | 37       | 0.400               | 0.400              | 0.000 |
| 1E+13                              | 38       | 0.400               | 0.400              | 0.000 |
| 1E+13                              | 39       | 0.400               | 0.400              | 0.000 |
| 1E+13                              | 40       | 0.400               | 0.400              | 0.000 |
| 1E+13                              | 41       | 0.400               | 0.400              | 0.000 |
|                                    | Max      | 0.400               | 0.400              | 0.000 |
|                                    | Average  | 0.400               | 0.400              | 0.000 |
|                                    | Min      | 0.400               | 0.400              | 0.000 |
|                                    | Std Dev  | 0.000               | 0.000              | 0.000 |

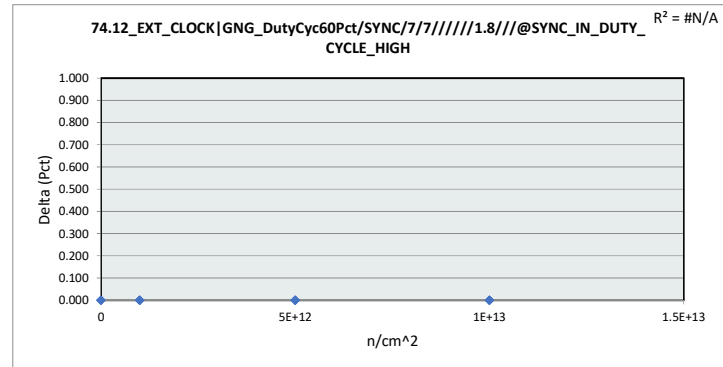


| 74.11_EXT_CLOCK GNG_DutyCyc40Pct/S |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|
| Test Site                          |       |       |       |       |
| Tester                             |       |       |       |       |
| Test Number                        |       |       |       |       |
| Max Limit                          | 0.41  | Pct   |       |       |
| Min Limit                          | 0.391 | Pct   |       |       |
| n/cm^2                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                 | 0.391 | 0.391 | 0.391 | 0.391 |
| Min                                | 0.400 | 0.400 | 0.400 | 0.400 |
| Average                            | 0.400 | 0.400 | 0.400 | 0.400 |
| Max                                | 0.400 | 0.400 | 0.400 | 0.400 |
| UL                                 | 0.410 | 0.410 | 0.410 | 0.410 |

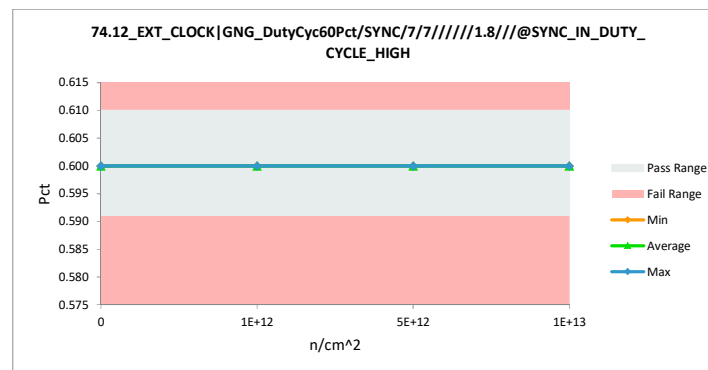


## NDD Report TPS7H4102-SP

| 74.12_EXT_CLOCK GNG_DutyCyc60Pct/S |          |                     |                    |       |
|------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                          |          |                     |                    |       |
| Tester                             |          |                     |                    |       |
| Test Number                        |          |                     |                    |       |
| Unit                               | Pct      | Pct                 |                    |       |
| Max Limit                          | 0.6138   | 0.61                |                    |       |
| Min Limit                          | 0.59     | 0.591               |                    |       |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                  | 1        | 0.600               | 0.600              | 0.000 |
| 0                                  | 2        | 0.600               | 0.600              | 0.000 |
| 0                                  | 3        | 0.600               | 0.600              | 0.000 |
| 1E+12                              | 30       | 0.600               | 0.600              | 0.000 |
| 1E+12                              | 31       | 0.600               | 0.600              | 0.000 |
| 1E+12                              | 32       | 0.600               | 0.600              | 0.000 |
| 1E+12                              | 33       | 0.600               | 0.600              | 0.000 |
| 5E+12                              | 34       | 0.600               | 0.600              | 0.000 |
| 5E+12                              | 35       | 0.600               | 0.600              | 0.000 |
| 5E+12                              | 36       | 0.600               | 0.600              | 0.000 |
| 5E+12                              | 37       | 0.600               | 0.600              | 0.000 |
| 1E+13                              | 38       | 0.600               | 0.600              | 0.000 |
| 1E+13                              | 39       | 0.600               | 0.600              | 0.000 |
| 1E+13                              | 40       | 0.600               | 0.600              | 0.000 |
| 1E+13                              | 41       | 0.600               | 0.600              | 0.000 |
|                                    | Max      | 0.600               | 0.600              | 0.000 |
|                                    | Average  | 0.600               | 0.600              | 0.000 |
|                                    | Min      | 0.600               | 0.600              | 0.000 |
|                                    | Std Dev  | 0.000               | 0.000              | 0.000 |

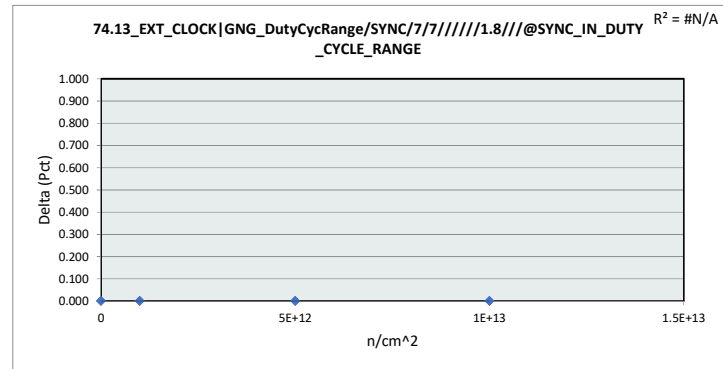


| 74.12_EXT_CLOCK GNG_DutyCyc60Pct/S |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|
| Test Site                          |       |       |       |       |
| Tester                             |       |       |       |       |
| Test Number                        |       |       |       |       |
| Max Limit                          | 0.61  | Pct   |       |       |
| Min Limit                          | 0.591 | Pct   |       |       |
| n/cm^2                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                 | 0.591 | 0.591 | 0.591 | 0.591 |
| Min                                | 0.600 | 0.600 | 0.600 | 0.600 |
| Average                            | 0.600 | 0.600 | 0.600 | 0.600 |
| Max                                | 0.600 | 0.600 | 0.600 | 0.600 |
| UL                                 | 0.610 | 0.610 | 0.610 | 0.610 |

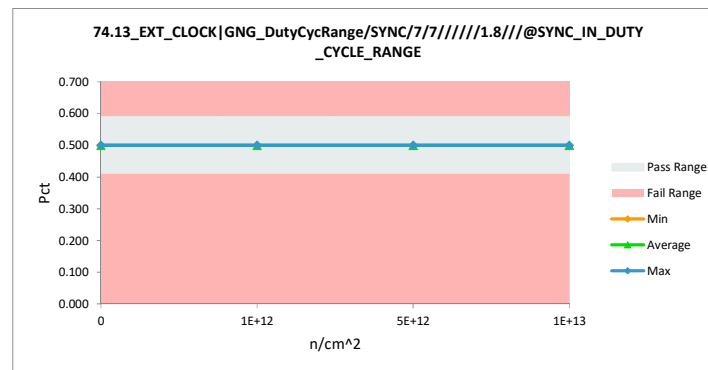


## NDD Report TPS7H4102-SP

| 74.13_EXT_CLOCK GNG_DutyCycRange/S |          |                     |                    |       |
|------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                          |          |                     |                    |       |
| Tester                             |          |                     |                    |       |
| Test Number                        |          |                     |                    |       |
| Unit                               | Pct      | Pct                 |                    |       |
| Max Limit                          | 0.6      | 0.59                |                    |       |
| Min Limit                          | 0.4      | 0.41                |                    |       |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                  | 1        | 0.500               | 0.500              | 0.000 |
| 0                                  | 2        | 0.500               | 0.500              | 0.000 |
| 0                                  | 3        | 0.500               | 0.500              | 0.000 |
| 1E+12                              | 30       | 0.500               | 0.500              | 0.000 |
| 1E+12                              | 31       | 0.500               | 0.500              | 0.000 |
| 1E+12                              | 32       | 0.500               | 0.500              | 0.000 |
| 1E+12                              | 33       | 0.500               | 0.500              | 0.000 |
| 5E+12                              | 34       | 0.500               | 0.500              | 0.000 |
| 5E+12                              | 35       | 0.500               | 0.500              | 0.000 |
| 5E+12                              | 36       | 0.500               | 0.500              | 0.000 |
| 5E+12                              | 37       | 0.500               | 0.500              | 0.000 |
| 1E+13                              | 38       | 0.500               | 0.500              | 0.000 |
| 1E+13                              | 39       | 0.500               | 0.500              | 0.000 |
| 1E+13                              | 40       | 0.500               | 0.500              | 0.000 |
| 1E+13                              | 41       | 0.500               | 0.500              | 0.000 |
|                                    | Max      | 0.500               | 0.500              | 0.000 |
|                                    | Average  | 0.500               | 0.500              | 0.000 |
|                                    | Min      | 0.500               | 0.500              | 0.000 |
|                                    | Std Dev  | 0.000               | 0.000              | 0.000 |



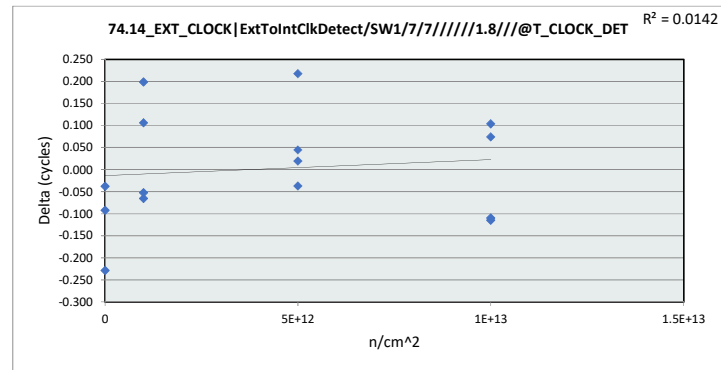
| 74.13_EXT_CLOCK GNG_DutyCycRange/S |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|
| Test Site                          |       |       |       |       |
| Tester                             |       |       |       |       |
| Test Number                        |       |       |       |       |
| Max Limit                          | 0.59  | Pct   |       |       |
| Min Limit                          | 0.41  | Pct   |       |       |
| n/cm^2                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                 | 0.410 | 0.410 | 0.410 | 0.410 |
| Min                                | 0.500 | 0.500 | 0.500 | 0.500 |
| Average                            | 0.500 | 0.500 | 0.500 | 0.500 |
| Max                                | 0.500 | 0.500 | 0.500 | 0.500 |
| UL                                 | 0.590 | 0.590 | 0.590 | 0.590 |



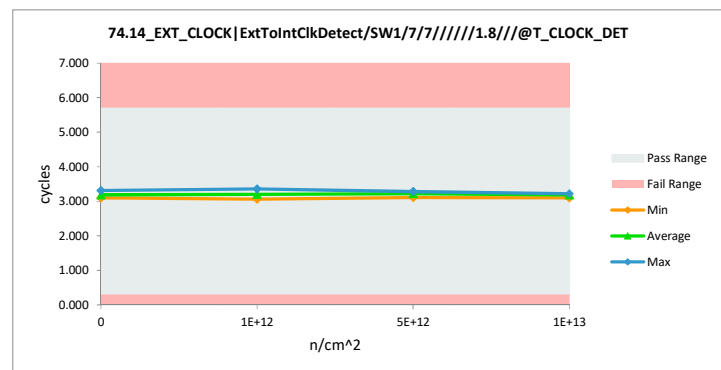


## NDD Report TPS7H4102-SP

| 74.14_EXT_CLOCK ExtToIntClkDetect/SW1 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | cycles   |                     | cycles             |        |
| Max Limit                             | 6        |                     | 5.7                |        |
| Min Limit                             | -0.78    |                     | 0.3                |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 3.354               | 3.316              | -0.038 |
| 0                                     | 2        | 3.327               | 3.099              | -0.229 |
| 0                                     | 3        | 3.236               | 3.144              | -0.092 |
| 1E+12                                 | 30       | 3.249               | 3.356              | 0.106  |
| 1E+12                                 | 31       | 2.988               | 3.187              | 0.199  |
| 1E+12                                 | 32       | 3.240               | 3.187              | -0.053 |
| 1E+12                                 | 33       | 3.125               | 3.060              | -0.065 |
| 5E+12                                 | 34       | 3.061               | 3.278              | 0.217  |
| 5E+12                                 | 35       | 3.185               | 3.230              | 0.045  |
| 5E+12                                 | 36       | 3.088               | 3.108              | 0.019  |
| 5E+12                                 | 37       | 3.307               | 3.270              | -0.037 |
| 1E+13                                 | 38       | 3.103               | 3.207              | 0.104  |
| 1E+13                                 | 39       | 3.146               | 3.221              | 0.074  |
| 1E+13                                 | 40       | 3.206               | 3.096              | -0.109 |
| 1E+13                                 | 41       | 3.335               | 3.220              | -0.115 |
|                                       | Max      | 3.354               | 3.356              | 0.217  |
|                                       | Average  | 3.197               | 3.199              | 0.002  |
|                                       | Min      | 2.988               | 3.060              | -0.229 |
|                                       | Std Dev  | 0.110               | 0.086              | 0.123  |

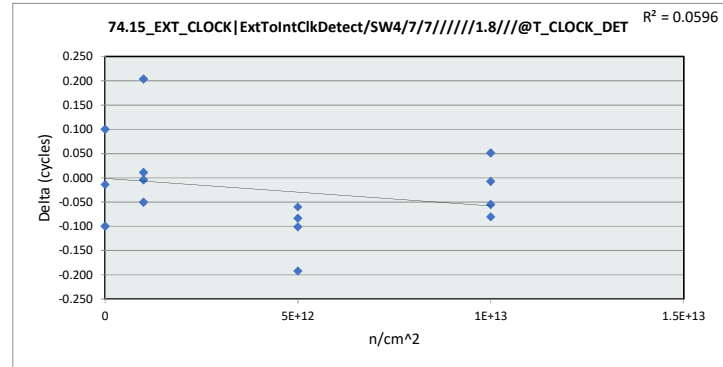


| 74.14_EXT_CLOCK ExtToIntClkDetect/SW1 |       |       |        |       |
|---------------------------------------|-------|-------|--------|-------|
| Test Site                             |       |       |        |       |
| Tester                                |       |       |        |       |
| Test Number                           |       |       |        |       |
| Max Limit                             | 5.7   |       | cycles |       |
| Min Limit                             | 0.3   |       | cycles |       |
| n/cm^2                                | 0     | 1E+12 | 5E+12  | 1E+13 |
| LL                                    | 0.300 | 0.300 | 0.300  | 0.300 |
| Min                                   | 3.099 | 3.060 | 3.108  | 3.096 |
| Average                               | 3.186 | 3.198 | 3.221  | 3.186 |
| Max                                   | 3.316 | 3.356 | 3.278  | 3.221 |
| UL                                    | 5.700 | 5.700 | 5.700  | 5.700 |

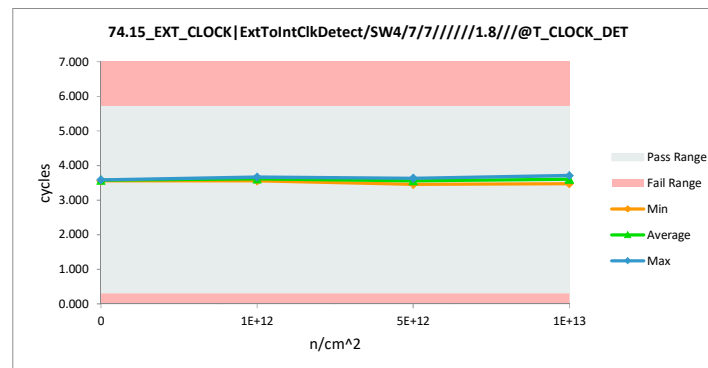


## NDD Report TPS7H4102-SP

| 74.15_EXT_CLOCK ExtToIntClkDetect/SW4 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | cycles   | cycles              |                    |        |
| Max Limit                             | 6        | 5.7                 |                    |        |
| Min Limit                             | -0.78    | 0.3                 |                    |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 3.601               | 3.587              | -0.014 |
| 0                                     | 2        | 3.653               | 3.554              | -0.099 |
| 0                                     | 3        | 3.489               | 3.589              | 0.100  |
| 1E+12                                 | 30       | 3.587               | 3.598              | 0.011  |
| 1E+12                                 | 31       | 3.611               | 3.560              | -0.051 |
| 1E+12                                 | 32       | 3.428               | 3.632              | 0.203  |
| 1E+12                                 | 33       | 3.668               | 3.664              | -0.004 |
| 5E+12                                 | 34       | 3.689               | 3.629              | -0.060 |
| 5E+12                                 | 35       | 3.699               | 3.616              | -0.083 |
| 5E+12                                 | 36       | 3.646               | 3.454              | -0.192 |
| 5E+12                                 | 37       | 3.642               | 3.541              | -0.101 |
| 1E+13                                 | 38       | 3.667               | 3.660              | -0.007 |
| 1E+13                                 | 39       | 3.658               | 3.709              | 0.051  |
| 1E+13                                 | 40       | 3.648               | 3.593              | -0.055 |
| 1E+13                                 | 41       | 3.554               | 3.473              | -0.080 |
|                                       | Max      | 3.699               | 3.709              | 0.203  |
|                                       | Average  | 3.616               | 3.591              | -0.025 |
|                                       | Min      | 3.428               | 3.454              | -0.192 |
|                                       | Std Dev  | 0.075               | 0.068              | 0.094  |

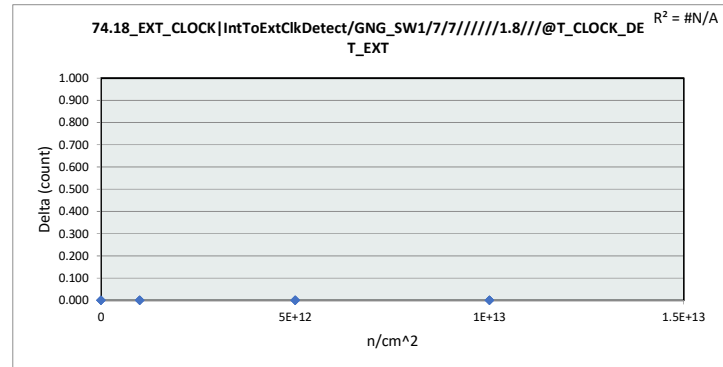


| 74.15_EXT_CLOCK ExtToIntClkDetect/SW4 |       |        |       |       |
|---------------------------------------|-------|--------|-------|-------|
| Test Site                             |       |        |       |       |
| Tester                                |       |        |       |       |
| Test Number                           |       |        |       |       |
| Max Limit                             | 5.7   | cycles |       |       |
| Min Limit                             | 0.3   | cycles |       |       |
| n/cm^2                                | 0     | 1E+12  | 5E+12 | 1E+13 |
| LL                                    | 0.300 | 0.300  | 0.300 | 0.300 |
| Min                                   | 3.554 | 3.561  | 3.454 | 3.473 |
| Average                               | 3.577 | 3.614  | 3.560 | 3.609 |
| Max                                   | 3.589 | 3.664  | 3.629 | 3.709 |
| UL                                    | 5.700 | 5.700  | 5.700 | 5.700 |

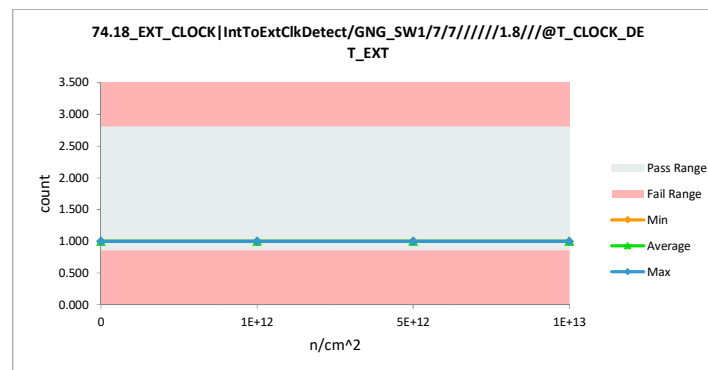


## NDD Report TPS7H4102-SP

| 74.18_EXT_CLOCK IntToExtClkDetect/GN |          |                     |                    |       |
|--------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                            |          |                     |                    |       |
| Tester                               |          |                     |                    |       |
| Test Number                          |          |                     |                    |       |
| Unit                                 | count    | count               |                    |       |
| Max Limit                            | 3        | 2.8                 |                    |       |
| Min Limit                            | 0.472    | 0.86                |                    |       |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                    | 1        | 1.000               | 1.000              | 0.000 |
| 0                                    | 2        | 1.000               | 1.000              | 0.000 |
| 0                                    | 3        | 1.000               | 1.000              | 0.000 |
| 1E+12                                | 30       | 1.000               | 1.000              | 0.000 |
| 1E+12                                | 31       | 1.000               | 1.000              | 0.000 |
| 1E+12                                | 32       | 1.000               | 1.000              | 0.000 |
| 1E+12                                | 33       | 1.000               | 1.000              | 0.000 |
| 5E+12                                | 34       | 1.000               | 1.000              | 0.000 |
| 5E+12                                | 35       | 1.000               | 1.000              | 0.000 |
| 5E+12                                | 36       | 1.000               | 1.000              | 0.000 |
| 5E+12                                | 37       | 1.000               | 1.000              | 0.000 |
| 1E+13                                | 38       | 1.000               | 1.000              | 0.000 |
| 1E+13                                | 39       | 1.000               | 1.000              | 0.000 |
| 1E+13                                | 40       | 1.000               | 1.000              | 0.000 |
| 1E+13                                | 41       | 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 |

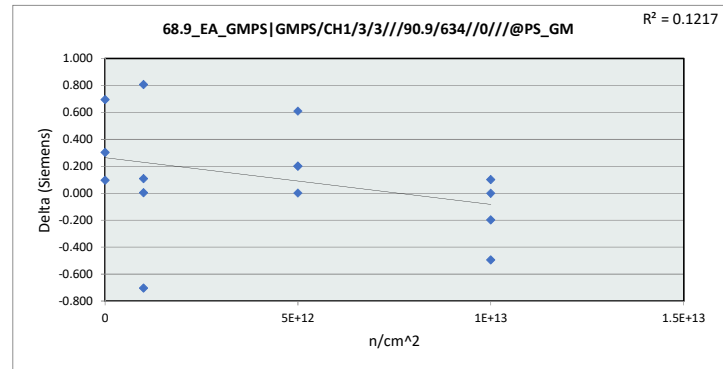


| 74.18_EXT_CLOCK IntToExtClk |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|
| Test Site                   |       |       |       |       |
| Tester                      |       |       |       |       |
| Test Number                 |       |       |       |       |
| Max Limit                   | 2.8   | count |       |       |
| Min Limit                   | 0.86  | count |       |       |
| n/cm^2                      | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                          | 0.860 | 0.860 | 0.860 | 0.860 |
| Min                         | 1.000 | 1.000 | 1.000 | 1.000 |
| Average                     | 1.000 | 1.000 | 1.000 | 1.000 |
| Max                         | 1.000 | 1.000 | 1.000 | 1.000 |
| UL                          | 2.800 | 2.800 | 2.800 | 2.800 |

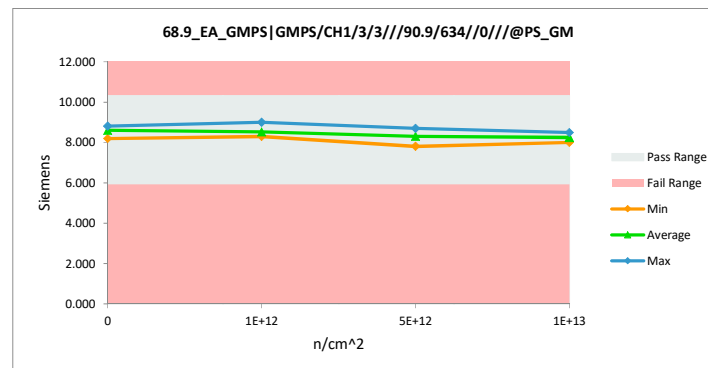


## NDD Report TPS7H4102-SP

| 68.9_EA_GMPS GMPS/CH1/3/3///90.9/6 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Siemens  | Siemens             |                    |        |
| Max Limit                          | 10.46    | 10.31               |                    |        |
| Min Limit                          | 5.78     | 5.93                |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 8.500               | 8.804              | 0.304  |
| 0                                  | 2        | 8.101               | 8.797              | 0.696  |
| 0                                  | 3        | 8.103               | 8.199              | 0.097  |
| 1E+12                              | 30       | 8.998               | 8.295              | -0.703 |
| 1E+12                              | 31       | 8.193               | 9.002              | 0.808  |
| 1E+12                              | 32       | 8.191               | 8.301              | 0.110  |
| 1E+12                              | 33       | 8.499               | 8.504              | 0.005  |
| 5E+12                              | 34       | 8.502               | 8.504              | 0.002  |
| 5E+12                              | 35       | 8.496               | 8.699              | 0.202  |
| 5E+12                              | 36       | 7.601               | 7.803              | 0.202  |
| 5E+12                              | 37       | 7.596               | 8.206              | 0.610  |
| 1E+13                              | 38       | 8.107               | 8.208              | 0.102  |
| 1E+13                              | 39       | 8.493               | 8.295              | -0.197 |
| 1E+13                              | 40       | 8.494               | 8.000              | -0.493 |
| 1E+13                              | 41       | 8.494               | 8.494              | 0.001  |
|                                    | Max      | 8.998               | 9.002              | 0.808  |
|                                    | Average  | 8.291               | 8.407              | 0.116  |
|                                    | Min      | 7.596               | 7.803              | -0.703 |
|                                    | Std Dev  | 0.367               | 0.323              | 0.404  |

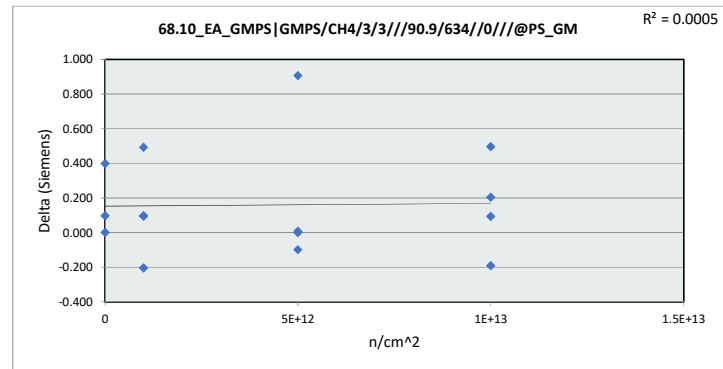


| 68.9_EA_GMPS GMPS/CH1/3/ |        |         |        |        |
|--------------------------|--------|---------|--------|--------|
| Test Site                |        |         |        |        |
| Tester                   |        |         |        |        |
| Test Number              |        |         |        |        |
| Max Limit                | 10.31  | Siemens |        |        |
| Min Limit                | 5.93   | Siemens |        |        |
| n/cm^2                   | 0      | 1E+12   | 5E+12  | 1E+13  |
| LL                       | 5.930  | 5.930   | 5.930  | 5.930  |
| Min                      | 8.199  | 8.296   | 7.803  | 8.000  |
| Average                  | 8.600  | 8.525   | 8.303  | 8.250  |
| Max                      | 8.804  | 9.002   | 8.699  | 8.494  |
| UL                       | 10.310 | 10.310  | 10.310 | 10.310 |

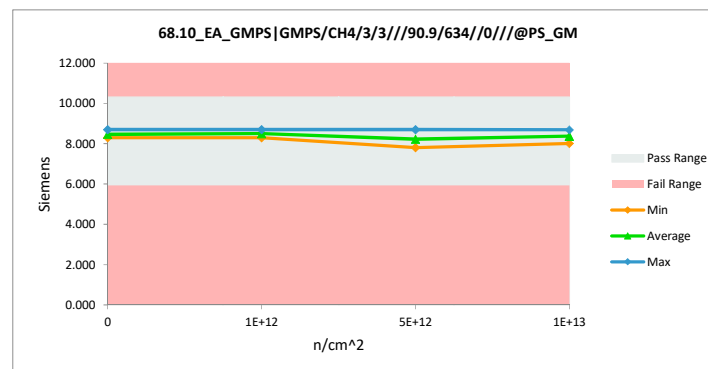


## NDD Report TPS7H4102-SP

| 68.10_EA_GMPS GMPS/CH4/3/3///90.9/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Siemens  | Siemens             |                    |        |
| Max Limit                          | 10.46    | 10.31               |                    |        |
| Min Limit                          | 5.78     | 5.93                |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 8.299               | 8.698              | 0.399  |
| 0                                  | 2        | 8.301               | 8.399              | 0.097  |
| 0                                  | 3        | 8.300               | 8.300              | 0.000  |
| 1E+12                              | 30       | 8.709               | 8.504              | -0.205 |
| 1E+12                              | 31       | 8.207               | 8.699              | 0.492  |
| 1E+12                              | 32       | 8.204               | 8.300              | 0.096  |
| 1E+12                              | 33       | 8.406               | 8.500              | 0.095  |
| 5E+12                              | 34       | 8.500               | 8.401              | -0.099 |
| 5E+12                              | 35       | 7.998               | 7.997              | -0.001 |
| 5E+12                              | 36       | 7.793               | 7.801              | 0.009  |
| 5E+12                              | 37       | 7.797               | 8.703              | 0.906  |
| 1E+13                              | 38       | 8.307               | 8.400              | 0.093  |
| 1E+13                              | 39       | 8.199               | 8.695              | 0.496  |
| 1E+13                              | 40       | 8.197               | 8.007              | -0.191 |
| 1E+13                              | 41       | 8.199               | 8.403              | 0.204  |
|                                    | Max      | 8.709               | 8.703              | 0.906  |
|                                    | Average  | 8.228               | 8.387              | 0.160  |
|                                    | Min      | 7.793               | 7.801              | -0.205 |
|                                    | Std Dev  | 0.238               | 0.277              | 0.299  |

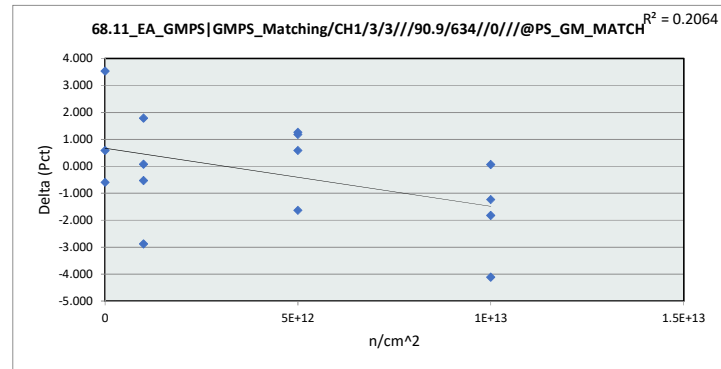


| 68.10_EA_GMPS GMPS/CH4/3/3///90.9/634/0///@PS_GM |        |         |        |        |
|--------------------------------------------------|--------|---------|--------|--------|
| Test Site                                        |        |         |        |        |
| Tester                                           |        |         |        |        |
| Test Number                                      |        |         |        |        |
| Max Limit                                        | 10.31  | Siemens |        |        |
| Min Limit                                        | 5.93   | Siemens |        |        |
| n/cm^2                                           | 0      | 1E+12   | 5E+12  | 1E+13  |
| LL                                               | 5.930  | 5.930   | 5.930  | 5.930  |
| Min                                              | 8.300  | 8.300   | 7.801  | 8.007  |
| Average                                          | 8.466  | 8.501   | 8.226  | 8.376  |
| Max                                              | 8.698  | 8.699   | 8.703  | 8.695  |
| UL                                               | 10.310 | 10.310  | 10.310 | 10.310 |

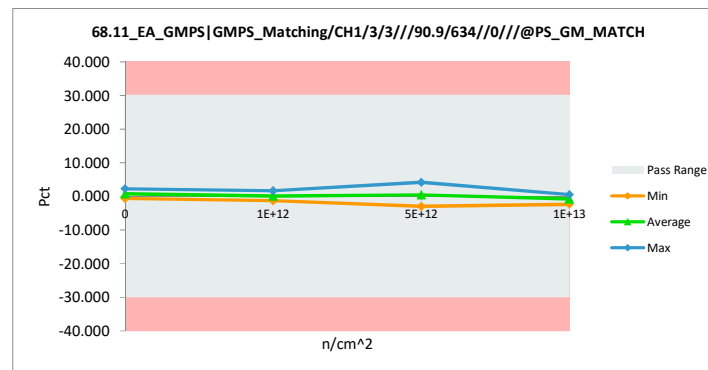


## NDD Report TPS7H4102-SP

| 68.11_EA_GMPS GMPS_Matching/CH1/3/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 42       | 30                  |                    |        |
| Min Limit                          | -42      | -30                 |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 1.200               | 0.610              | -0.590 |
| 0                                  | 2        | -1.220              | 2.320              | 3.540  |
| 0                                  | 3        | -1.200              | -0.610             | 0.590  |
| 1E+12                              | 30       | 1.640               | -1.240             | -2.880 |
| 1E+12                              | 31       | -0.080              | 1.710              | 1.790  |
| 1E+12                              | 32       | -0.080              | 0.000              | 0.080  |
| 1E+12                              | 33       | 0.550               | 0.020              | -0.530 |
| 5E+12                              | 34       | 0.010               | 0.600              | 0.590  |
| 5E+12                              | 35       | 3.020               | 4.200              | 1.180  |
| 5E+12                              | 36       | -1.250              | 0.010              | 1.260  |
| 5E+12                              | 37       | -1.310              | -2.940             | -1.630 |
| 1E+13                              | 38       | -1.220              | -1.150             | 0.070  |
| 1E+13                              | 39       | 1.760               | -2.350             | -4.110 |
| 1E+13                              | 40       | 1.780               | -0.040             | -1.820 |
| 1E+13                              | 41       | 1.770               | 0.540              | -1.230 |
|                                    | Max      | 3.020               | 4.200              | 3.540  |
|                                    | Average  | 0.358               | 0.112              | -0.246 |
|                                    | Min      | -1.310              | -2.940             | -4.110 |
|                                    | Std Dev  | 1.433               | 1.776              | 1.924  |

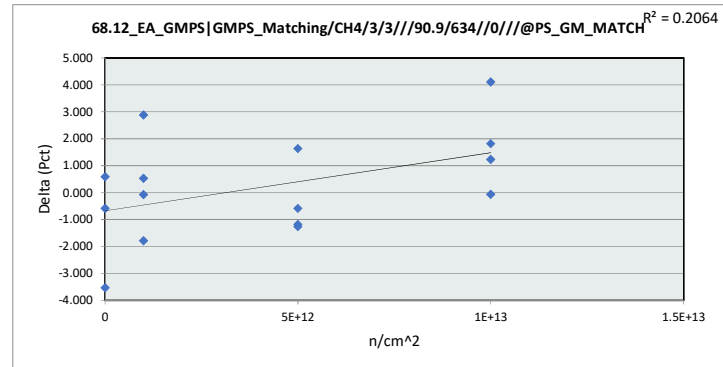


| 68.11_EA_GMPS GMPS_Matching/CH1/3/3///90.9/634//0///@PS_GM_MATCH |         |         |         |         |
|------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                        |         |         |         |         |
| Tester                                                           |         |         |         |         |
| Test Number                                                      |         |         |         |         |
| Max Limit                                                        | 30      | Pct     |         |         |
| Min Limit                                                        | -30     | Pct     |         |         |
| n/cm^2                                                           | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                               | -30.000 | -30.000 | -30.000 | -30.000 |
| Min                                                              | -0.610  | -1.240  | -2.940  | -2.350  |
| Average                                                          | 0.773   | 0.123   | 0.468   | -0.750  |
| Max                                                              | 2.320   | 1.710   | 4.200   | 0.540   |
| UL                                                               | 30.000  | 30.000  | 30.000  | 30.000  |

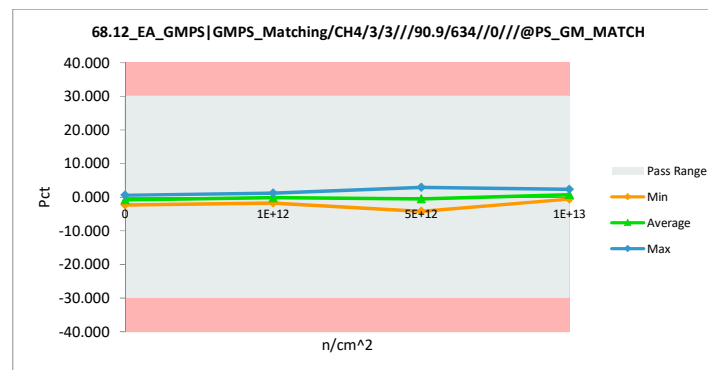


## NDD Report TPS7H4102-SP

| 68.12_EA_GMPS GMPS_Matching/CH4/3/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 42       | 30                  |                    |        |
| Min Limit                          | -42      | -30                 |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | -1.200              | -0.610             | 0.590  |
| 0                                  | 2        | 1.220               | -2.320             | -3.540 |
| 0                                  | 3        | 1.200               | 0.610              | -0.590 |
| 1E+12                              | 30       | -1.640              | 1.240              | 2.880  |
| 1E+12                              | 31       | 0.080               | -1.710             | -1.790 |
| 1E+12                              | 32       | 0.080               | 0.000              | -0.080 |
| 1E+12                              | 33       | -0.550              | -0.020             | 0.530  |
| 5E+12                              | 34       | -0.010              | -0.600             | -0.590 |
| 5E+12                              | 35       | -3.020              | -4.200             | -1.180 |
| 5E+12                              | 36       | 1.250               | -0.010             | -1.260 |
| 5E+12                              | 37       | 1.310               | 2.940              | 1.630  |
| 1E+13                              | 38       | 1.220               | 1.150              | -0.070 |
| 1E+13                              | 39       | -1.760              | 2.350              | 4.110  |
| 1E+13                              | 40       | -1.780              | 0.040              | 1.820  |
| 1E+13                              | 41       | -1.770              | -0.540             | 1.230  |
|                                    | Max      | 1.310               | 2.940              | 4.110  |
|                                    | Average  | -0.358              | -0.112             | 0.246  |
|                                    | Min      | -3.020              | -4.200             | -3.540 |
|                                    | Std Dev  | 1.433               | 1.776              | 1.924  |

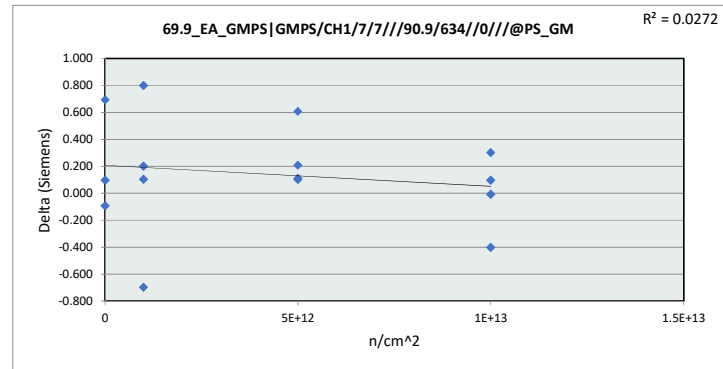


| 68.12_EA_GMPS GMPS_Matching/CH4/3/3///90.9/634//0///@PS_GM_MATCH |         |         |         |         |
|------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                        |         |         |         |         |
| Tester                                                           |         |         |         |         |
| Test Number                                                      |         |         |         |         |
| Max Limit                                                        | 30      | Pct     |         |         |
| Min Limit                                                        | -30     | Pct     |         |         |
| n/cm^2                                                           | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                               | -30.000 | -30.000 | -30.000 | -30.000 |
| Min                                                              | -2.320  | -1.710  | -4.200  | -0.540  |
| Average                                                          | -0.773  | -0.123  | -0.468  | 0.750   |
| Max                                                              | 0.610   | 1.240   | 2.940   | 2.350   |
| UL                                                               | 30.000  | 30.000  | 30.000  | 30.000  |

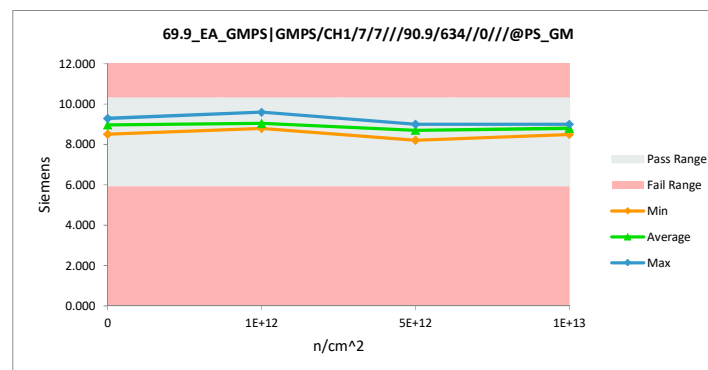


## NDD Report TPS7H4102-SP

| 69.9_EA_GMPS GMPS/CH1/7/7///90.9/6 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Siemens  | Siemens             |                    |        |
| Max Limit                          | 10.46    | 10.31               |                    |        |
| Min Limit                          | 5.78     | 5.93                |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 9.005               | 9.102              | 0.097  |
| 0                                  | 2        | 8.604               | 9.298              | 0.694  |
| 0                                  | 3        | 8.599               | 8.505              | -0.094 |
| 1E+12                              | 30       | 9.495               | 8.797              | -0.697 |
| 1E+12                              | 31       | 8.799               | 9.600              | 0.800  |
| 1E+12                              | 32       | 8.698               | 8.801              | 0.103  |
| 1E+12                              | 33       | 8.801               | 9.003              | 0.202  |
| 5E+12                              | 34       | 8.894               | 9.004              | 0.110  |
| 5E+12                              | 35       | 8.898               | 8.999              | 0.101  |
| 5E+12                              | 36       | 8.001               | 8.208              | 0.207  |
| 5E+12                              | 37       | 7.999               | 8.606              | 0.608  |
| 1E+13                              | 38       | 8.500               | 8.803              | 0.302  |
| 1E+13                              | 39       | 8.907               | 8.900              | -0.007 |
| 1E+13                              | 40       | 8.903               | 8.501              | -0.402 |
| 1E+13                              | 41       | 8.903               | 9.000              | 0.097  |
|                                    | Max      | 9.495               | 9.600              | 0.800  |
|                                    | Average  | 8.734               | 8.875              | 0.141  |
|                                    | Min      | 7.999               | 8.208              | -0.697 |
|                                    | Std Dev  | 0.375               | 0.341              | 0.385  |



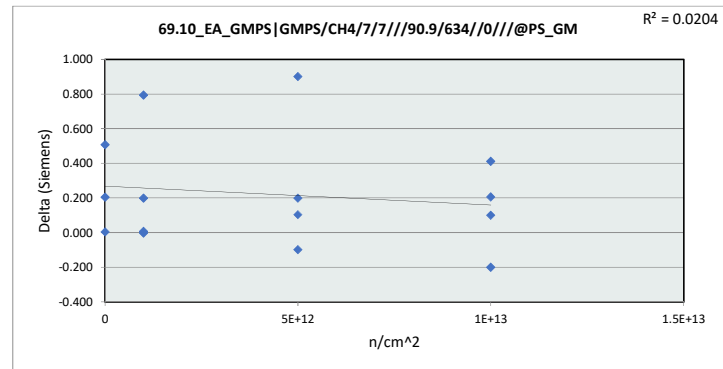
| 69.9_EA_GMPS GMPS/CH1/7/7///90.9/634/0///@PS_GM |        |         |        |        |
|-------------------------------------------------|--------|---------|--------|--------|
| Test Site                                       |        |         |        |        |
| Tester                                          |        |         |        |        |
| Test Number                                     |        |         |        |        |
| Max Limit                                       | 10.31  | Siemens |        |        |
| Min Limit                                       | 5.93   | Siemens |        |        |
| n/cm^2                                          | 0      | 1E+12   | 5E+12  | 1E+13  |
| LL                                              | 5.930  | 5.930   | 5.930  | 5.930  |
| Min                                             | 8.505  | 8.797   | 8.209  | 8.501  |
| Average                                         | 8.968  | 9.050   | 8.705  | 8.801  |
| Max                                             | 9.298  | 9.600   | 9.004  | 9.000  |
| UL                                              | 10.310 | 10.310  | 10.310 | 10.310 |



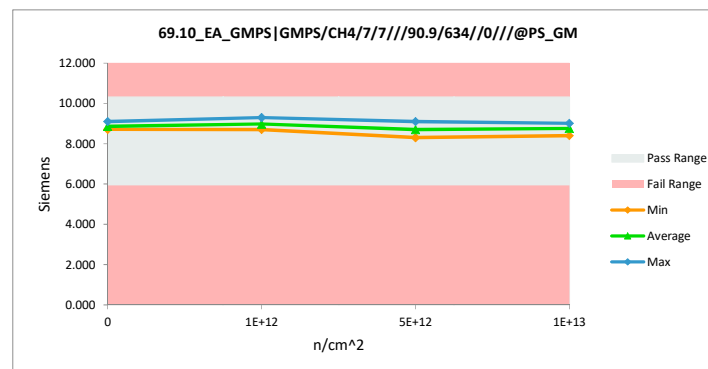


## NDD Report TPS7H4102-SP

| 69.10_EA_GMPS GMPS/CH4/7/7///90.9/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Siemens  | Siemens             |                    |        |
| Max Limit                          | 10.46    | 10.31               |                    |        |
| Min Limit                          | 5.78     | 5.93                |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 8.594               | 9.100              | 0.506  |
| 0                                  | 2        | 8.599               | 8.803              | 0.204  |
| 0                                  | 3        | 8.699               | 8.703              | 0.003  |
| 1E+12                              | 30       | 9.103               | 9.099              | -0.004 |
| 1E+12                              | 31       | 8.507               | 9.300              | 0.793  |
| 1E+12                              | 32       | 8.506               | 8.704              | 0.198  |
| 1E+12                              | 33       | 8.797               | 8.804              | 0.007  |
| 5E+12                              | 34       | 8.902               | 8.804              | -0.098 |
| 5E+12                              | 35       | 8.399               | 8.597              | 0.199  |
| 5E+12                              | 36       | 8.201               | 8.304              | 0.103  |
| 5E+12                              | 37       | 8.200               | 9.100              | 0.900  |
| 1E+13                              | 38       | 8.697               | 8.902              | 0.205  |
| 1E+13                              | 39       | 8.597               | 9.008              | 0.412  |
| 1E+13                              | 40       | 8.598               | 8.398              | -0.200 |
| 1E+13                              | 41       | 8.599               | 8.699              | 0.100  |
|                                    | Max      | 9.103               | 9.300              | 0.900  |
|                                    | Average  | 8.600               | 8.822              | 0.222  |
|                                    | Min      | 8.200               | 8.304              | -0.200 |
|                                    | Std Dev  | 0.236               | 0.273              | 0.312  |

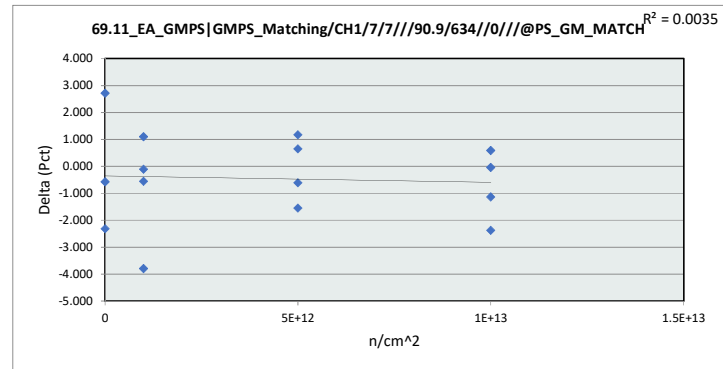


| 69.10_EA_GMPS GMPS/CH4/7/7///90.9/634/0///@PS_GM |        |         |        |        |
|--------------------------------------------------|--------|---------|--------|--------|
| Test Site                                        |        |         |        |        |
| Tester                                           |        |         |        |        |
| Test Number                                      |        |         |        |        |
| Max Limit                                        | 10.31  | Siemens |        |        |
| Min Limit                                        | 5.93   | Siemens |        |        |
| n/cm^2                                           | 0      | 1E+12   | 5E+12  | 1E+13  |
| LL                                               | 5.930  | 5.930   | 5.930  | 5.930  |
| Min                                              | 8.703  | 8.704   | 8.304  | 8.398  |
| Average                                          | 8.869  | 8.977   | 8.702  | 8.752  |
| Max                                              | 9.100  | 9.300   | 9.100  | 9.008  |
| UL                                               | 10.310 | 10.310  | 10.310 | 10.310 |

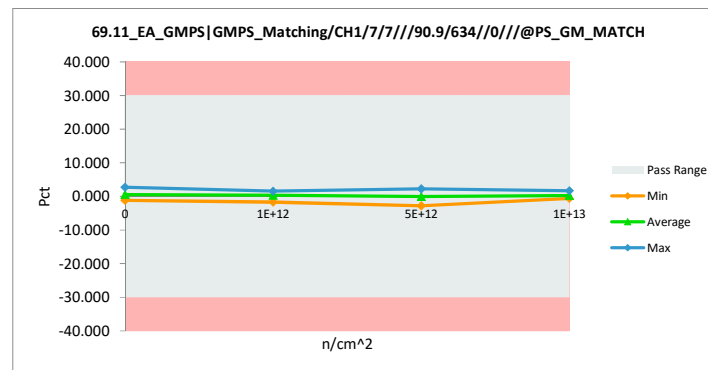


## NDD Report TPS7H4102-SP

| 69.11_EA_GMPS GMPS_Matching/CH1/7/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 42       | 30                  |                    |        |
| Min Limit                          | -42      | -30                 |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 2.330               | 0.010              | -2.320 |
| 0                                  | 2        | 0.030               | 2.740              | 2.710  |
| 0                                  | 3        | -0.580              | -1.150             | -0.570 |
| 1E+12                              | 30       | 2.110               | -1.690             | -3.800 |
| 1E+12                              | 31       | 1.690               | 1.580              | -0.110 |
| 1E+12                              | 32       | 1.120               | 0.560              | -0.560 |
| 1E+12                              | 33       | 0.020               | 1.120              | 1.100  |
| 5E+12                              | 34       | -0.050              | 1.120              | 1.170  |
| 5E+12                              | 35       | 2.890               | 2.280              | -0.610 |
| 5E+12                              | 36       | -1.230              | -0.580             | 0.650  |
| 5E+12                              | 37       | -1.240              | -2.790             | -1.550 |
| 1E+13                              | 38       | -1.140              | -0.560             | 0.580  |
| 1E+13                              | 39       | 1.780               | -0.600             | -2.380 |
| 1E+13                              | 40       | 1.750               | 0.610              | -1.140 |
| 1E+13                              | 41       | 1.740               | 1.700              | -0.040 |
|                                    | Max      | 2.890               | 2.740              | 2.710  |
|                                    | Average  | 0.748               | 0.290              | -0.458 |
|                                    | Min      | -1.240              | -2.790             | -3.800 |
|                                    | Std Dev  | 1.412               | 1.535              | 1.642  |

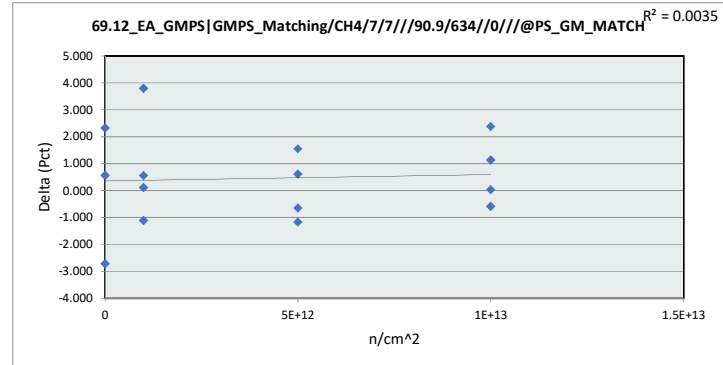


| 69.11_EA_GMPS GMPS_Matching/CH1/7/7///90.9/634//0///@PS_GM_MATCH |         |         |         |         |
|------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                        |         |         |         |         |
| Tester                                                           |         |         |         |         |
| Test Number                                                      |         |         |         |         |
| Max Limit                                                        | 30      | Pct     |         |         |
| Min Limit                                                        | -30     | Pct     |         |         |
| n/cm^2                                                           | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                               | -30.000 | -30.000 | -30.000 | -30.000 |
| Min                                                              | -1.150  | -1.690  | -2.790  | -0.600  |
| Average                                                          | 0.533   | 0.393   | 0.007   | 0.288   |
| Max                                                              | 2.740   | 1.580   | 2.280   | 1.700   |
| UL                                                               | 30.000  | 30.000  | 30.000  | 30.000  |

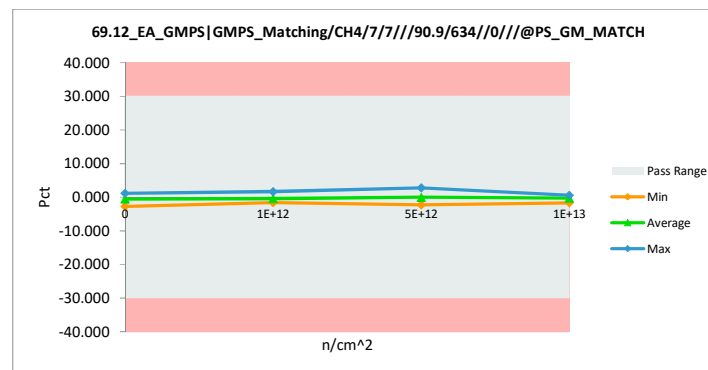


## NDD Report TPS7H4102-SP

| 69.12_EA_GMPS GMPS_Matching/CH4/7/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 42       | 30                  |                    |        |
| Min Limit                          | -42      | -30                 |                    |        |
| n/cm <sup>2</sup>                  | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | -2.330              | -0.010             | 2.320  |
| 0                                  | 2        | -0.030              | -2.740             | -2.710 |
| 0                                  | 3        | 0.580               | 1.150              | 0.570  |
| 1E+12                              | 30       | -2.110              | 1.690              | 3.800  |
| 1E+12                              | 31       | -1.690              | -1.580             | 0.110  |
| 1E+12                              | 32       | -1.120              | -0.560             | 0.560  |
| 1E+12                              | 33       | -0.020              | -1.120             | -1.100 |
| 5E+12                              | 34       | 0.050               | -1.120             | -1.170 |
| 5E+12                              | 35       | -2.890              | -2.280             | 0.610  |
| 5E+12                              | 36       | 1.230               | 0.580              | -0.650 |
| 5E+12                              | 37       | 1.240               | 2.790              | 1.550  |
| 1E+13                              | 38       | 1.140               | 0.560              | -0.580 |
| 1E+13                              | 39       | -1.780              | 0.600              | 2.380  |
| 1E+13                              | 40       | -1.750              | -0.610             | 1.140  |
| 1E+13                              | 41       | -1.740              | -1.700             | 0.040  |
|                                    | Max      | 1.240               | 2.790              | 3.800  |
|                                    | Average  | -0.748              | -0.290             | 0.458  |
|                                    | Min      | -2.890              | -2.740             | -2.710 |
|                                    | Std Dev  | 1.412               | 1.535              | 1.642  |

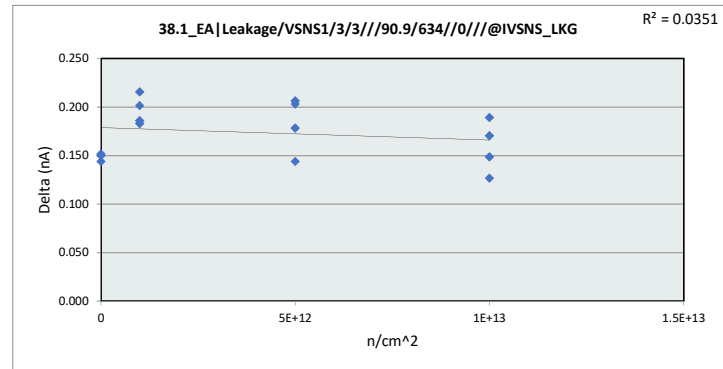


| 69.12_EA_GMPS GMPS_Matching/CH4/7/7///90.9/634//0///@PS_GM_MATCH |         |         |         |         |
|------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                        |         |         |         |         |
| Tester                                                           |         |         |         |         |
| Test Number                                                      |         |         |         |         |
| Max Limit                                                        | 30      | Pct     |         |         |
| Min Limit                                                        | -30     | Pct     |         |         |
| n/cm <sup>2</sup>                                                | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                               | -30.000 | -30.000 | -30.000 | -30.000 |
| Min                                                              | -2.740  | -1.580  | -2.280  | -1.700  |
| Average                                                          | -0.533  | -0.393  | -0.007  | -0.288  |
| Max                                                              | 1.150   | 1.690   | 2.790   | 0.600   |
| UL                                                               | 30.000  | 30.000  | 30.000  | 30.000  |

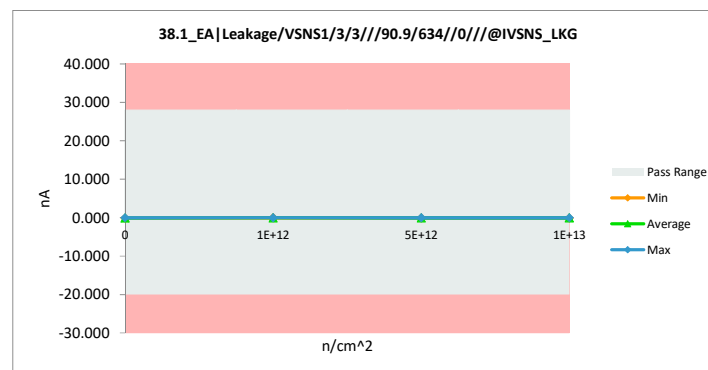


## NDD Report TPS7H4102-SP

| 38.1_EA Leakage/VSNS1/3/3///90.9/63 |          |                     |                    |       |
|-------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                           |          |                     |                    |       |
| Tester                              |          |                     |                    |       |
| Test Number                         |          |                     |                    |       |
| Unit                                | nA       | nA                  |                    |       |
| Max Limit                           | 30       | 28                  |                    |       |
| Min Limit                           | -29.6    | -20                 |                    |       |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                   | 1        | -0.245              | -0.094             | 0.152 |
| 0                                   | 2        | -0.228              | -0.084             | 0.144 |
| 0                                   | 3        | -0.214              | -0.064             | 0.150 |
| 1E+12                               | 30       | -0.222              | -0.020             | 0.202 |
| 1E+12                               | 31       | -0.200              | -0.017             | 0.183 |
| 1E+12                               | 32       | -0.272              | -0.056             | 0.216 |
| 1E+12                               | 33       | -0.237              | -0.051             | 0.186 |
| 5E+12                               | 34       | -0.249              | -0.042             | 0.207 |
| 5E+12                               | 35       | -0.206              | -0.028             | 0.178 |
| 5E+12                               | 36       | -0.184              | -0.041             | 0.144 |
| 5E+12                               | 37       | -0.275              | -0.072             | 0.203 |
| 1E+13                               | 38       | -0.233              | -0.062             | 0.171 |
| 1E+13                               | 39       | -0.220              | -0.094             | 0.127 |
| 1E+13                               | 40       | -0.231              | -0.042             | 0.189 |
| 1E+13                               | 41       | -0.220              | -0.072             | 0.149 |
|                                     | Max      | -0.184              | -0.017             | 0.216 |
|                                     | Average  | -0.229              | -0.056             | 0.173 |
|                                     | Min      | -0.275              | -0.094             | 0.127 |
|                                     | Std Dev  | 0.025               | 0.025              | 0.028 |

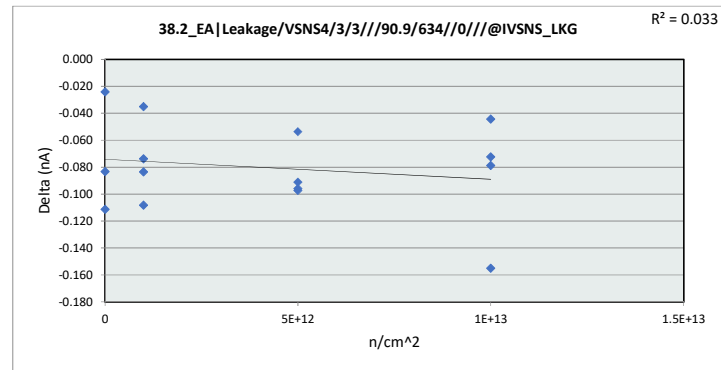


| 38.1_EA Leakage/VSNS1/3/3 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 28      | nA      |         |         |
| Min Limit                 | -20     | nA      |         |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | -20.000 | -20.000 | -20.000 | -20.000 |
| Min                       | -0.094  | -0.056  | -0.072  | -0.094  |
| Average                   | -0.081  | -0.036  | -0.046  | -0.067  |
| Max                       | -0.064  | -0.017  | -0.028  | -0.042  |
| UL                        | 28.000  | 28.000  | 28.000  | 28.000  |

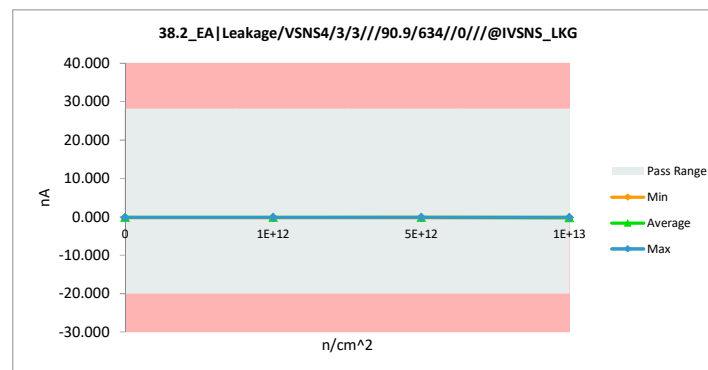


## NDD Report TPS7H4102-SP

| 38.2_EA Leakage/VSNS4/3/3///90.9/63 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | nA       | nA                  |                    |        |
| Max Limit                           | 30       | 28                  |                    |        |
| Min Limit                           | -29.6    | -20                 |                    |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | -0.076              | -0.188             | -0.111 |
| 0                                   | 2        | -0.132              | -0.156             | -0.024 |
| 0                                   | 3        | -0.114              | -0.197             | -0.083 |
| 1E+12                               | 30       | -0.081              | -0.164             | -0.083 |
| 1E+12                               | 31       | -0.093              | -0.201             | -0.108 |
| 1E+12                               | 32       | -0.115              | -0.189             | -0.074 |
| 1E+12                               | 33       | -0.126              | -0.161             | -0.035 |
| 5E+12                               | 34       | -0.067              | -0.163             | -0.096 |
| 5E+12                               | 35       | -0.092              | -0.189             | -0.097 |
| 5E+12                               | 36       | -0.103              | -0.194             | -0.091 |
| 5E+12                               | 37       | -0.126              | -0.180             | -0.054 |
| 1E+13                               | 38       | -0.118              | -0.191             | -0.072 |
| 1E+13                               | 39       | -0.164              | -0.208             | -0.044 |
| 1E+13                               | 40       | -0.089              | -0.244             | -0.155 |
| 1E+13                               | 41       | -0.101              | -0.180             | -0.079 |
|                                     | Max      | -0.067              | -0.156             | -0.024 |
|                                     | Average  | -0.106              | -0.187             | -0.080 |
|                                     | Min      | -0.164              | -0.244             | -0.155 |
|                                     | Std Dev  | 0.025               | 0.022              | 0.033  |

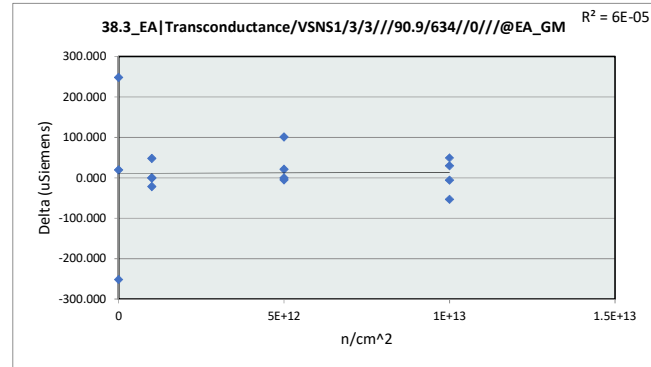


| 38.2_EA Leakage/VSNS4/3/3 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 28      | nA      |         |         |
| Min Limit                 | -20     | nA      |         |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | -20.000 | -20.000 | -20.000 | -20.000 |
| Min                       | -0.197  | -0.202  | -0.194  | -0.244  |
| Average                   | -0.180  | -0.179  | -0.181  | -0.205  |
| Max                       | -0.156  | -0.161  | -0.163  | -0.180  |
| UL                        | 28.000  | 28.000  | 28.000  | 28.000  |

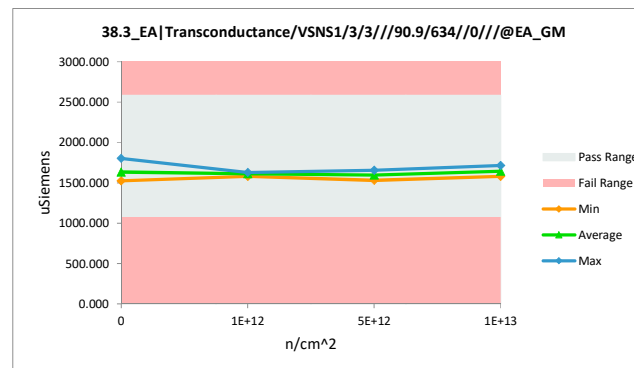


## NDD Report TPS7H4102-SP

| 38.3_EA Transconductance/VSNS1/3/3// |          |                     |                    |          |
|--------------------------------------|----------|---------------------|--------------------|----------|
| Test Site                            |          |                     |                    |          |
| Tester                               |          |                     |                    |          |
| Test Number                          |          |                     |                    |          |
| Unit                                 | uSiemens |                     | uSiemens           |          |
| Max Limit                            | 2630     |                     | 2582               |          |
| Min Limit                            | 1029     |                     | 1077               |          |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta    |
| 0                                    | 1        | 1777.307            | 1525.801           | -251.506 |
| 0                                    | 2        | 1555.144            | 1803.735           | 248.592  |
| 0                                    | 3        | 1555.144            | 1575.340           | 20.197   |
| 1E+12                                | 30       | 1580.472            | 1628.204           | 47.732   |
| 1E+12                                | 31       | 1628.204            | 1606.639           | -21.566  |
| 1E+12                                | 32       | 1628.204            | 1628.204           | 0.000    |
| 1E+12                                | 33       | 1580.472            | 1580.472           | 0.000    |
| 5E+12                                | 34       | 1606.639            | 1628.204           | 21.566   |
| 5E+12                                | 35       | 1530.615            | 1530.615           | 0.000    |
| 5E+12                                | 36       | 1580.472            | 1575.340           | -5.131   |
| 5E+12                                | 37       | 1555.144            | 1655.989           | 100.846  |
| 1E+13                                | 38       | 1684.739            | 1714.505           | 29.766   |
| 1E+13                                | 39       | 1633.686            | 1580.472           | -53.214  |
| 1E+13                                | 40       | 1606.639            | 1655.989           | 49.351   |
| 1E+13                                | 41       | 1633.686            | 1628.204           | -5.482   |
|                                      | Max      | 1777.307            | 1803.735           | 248.592  |
|                                      | Average  | 1609.104            | 1621.181           | 12.077   |
|                                      | Min      | 1530.615            | 1525.801           | -251.506 |
|                                      | Std Dev  | 61.713              | 70.551             | 101.017  |

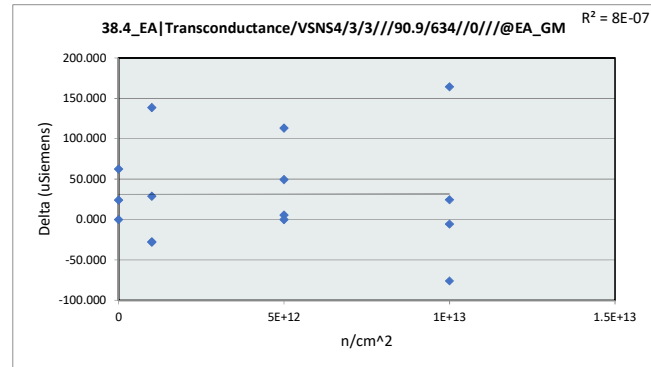


| 38.3_EA Transconductance/VSNS1/3/3// |          |          |          |          |
|--------------------------------------|----------|----------|----------|----------|
| Test Site                            |          |          |          |          |
| Tester                               |          |          |          |          |
| Test Number                          |          |          |          |          |
| Max Limit                            | 2582     |          | uSiemens |          |
| Min Limit                            | 1077     |          | uSiemens |          |
| n/cm^2                               | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                   | 1077.000 | 1077.000 | 1077.000 | 1077.000 |
| Min                                  | 1525.801 | 1580.472 | 1530.615 | 1580.472 |
| Average                              | 1634.959 | 1610.880 | 1597.537 | 1644.792 |
| Max                                  | 1803.736 | 1628.204 | 1655.989 | 1714.505 |
| UL                                   | 2582.000 | 2582.000 | 2582.000 | 2582.000 |

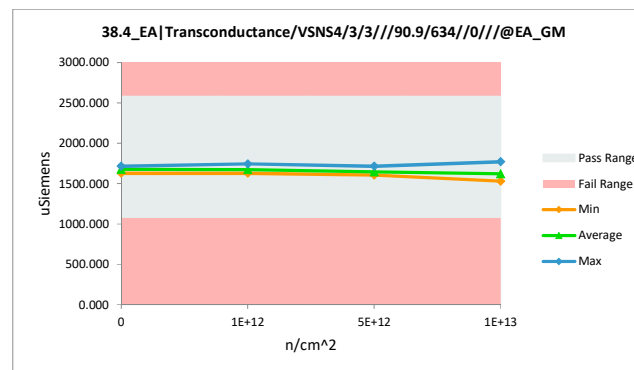


## NDD Report TPS7H4102-SP

| 38.4_EA Transconductance/VSNS4/3/3// |          |                     |                    |         |
|--------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                            |          |                     |                    |         |
| Tester                               |          |                     |                    |         |
| Test Number                          |          |                     |                    |         |
| Unit                                 | uSiemens |                     | uSiemens           |         |
| Max Limit                            | 2630     |                     | 2582               |         |
| Min Limit                            | 1029     |                     | 1077               |         |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                    | 1        | 1690.609            | 1714.505           | 23.896  |
| 0                                    | 2        | 1628.204            | 1690.609           | 62.405  |
| 0                                    | 3        | 1628.204            | 1628.204           | 0.000   |
| 1E+12                                | 30       | 1606.639            | 1745.341           | 138.703 |
| 1E+12                                | 31       | 1655.989            | 1628.204           | -27.785 |
| 1E+12                                | 32       | 1655.989            | 1628.204           | -27.785 |
| 1E+12                                | 33       | 1661.660            | 1690.609           | 28.949  |
| 5E+12                                | 34       | 1606.639            | 1606.639           | 0.000   |
| 5E+12                                | 35       | 1606.639            | 1655.989           | 49.351  |
| 5E+12                                | 36       | 1601.336            | 1606.639           | 5.302   |
| 5E+12                                | 37       | 1601.336            | 1714.505           | 113.169 |
| 1E+13                                | 38       | 1530.615            | 1555.144           | 24.529  |
| 1E+13                                | 39       | 1606.639            | 1530.615           | -76.024 |
| 1E+13                                | 40       | 1606.639            | 1770.821           | 164.182 |
| 1E+13                                | 41       | 1633.686            | 1628.204           | -5.482  |
|                                      | Max      | 1690.609            | 1770.821           | 164.182 |
|                                      | Average  | 1621.388            | 1652.949           | 31.561  |
|                                      | Min      | 1530.615            | 1530.615           | -76.024 |
|                                      | Std Dev  | 37.017              | 67.678             | 65.347  |

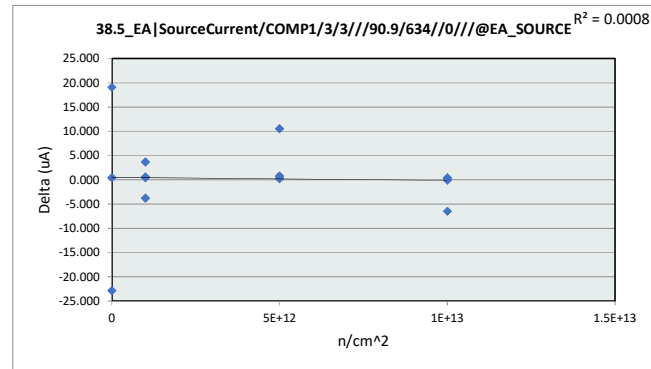


| 38.4_EA Transconductance/VSNS4/3/3// |          |          |          |          |
|--------------------------------------|----------|----------|----------|----------|
| Test Site                            |          |          |          |          |
| Tester                               |          |          |          |          |
| Test Number                          |          |          |          |          |
| Max Limit                            | 2582     |          | uSiemens |          |
| Min Limit                            | 1077     |          | uSiemens |          |
| n/cm^2                               | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                   | 1077.000 | 1077.000 | 1077.000 | 1077.000 |
| Min                                  | 1628.204 | 1628.204 | 1606.639 | 1530.615 |
| Average                              | 1677.773 | 1673.090 | 1645.943 | 1621.196 |
| Max                                  | 1714.505 | 1745.341 | 1714.505 | 1770.821 |
| UL                                   | 2582.000 | 2582.000 | 2582.000 | 2582.000 |

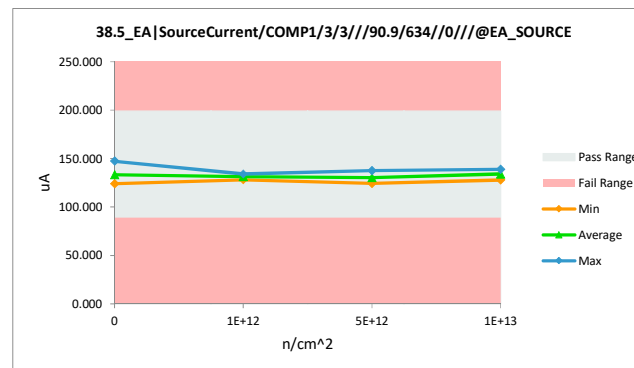


## NDD Report TPS7H4102-SP

| 38.5_EA SourceCurrent/COMP1/3/3///90.9/634//0///@EA_SOURCE |          |                     |                    |         |
|------------------------------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                                                  |          |                     |                    |         |
| Tester                                                     |          |                     |                    |         |
| Test Number                                                |          |                     |                    |         |
| Unit                                                       | uA       |                     | uA                 |         |
| Max Limit                                                  | 200      |                     | 199                |         |
| Min Limit                                                  | 88       |                     | 89                 |         |
| n/cm^2                                                     | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                                          | 1        | 146.949             | 124.090            | -22.860 |
| 0                                                          | 2        | 128.223             | 147.325            | 19.102  |
| 0                                                          | 3        | 128.163             | 128.635            | 0.472   |
| 1E+12                                                      | 30       | 129.776             | 133.487            | 3.711   |
| 1E+12                                                      | 31       | 133.828             | 130.035            | -3.794  |
| 1E+12                                                      | 32       | 133.773             | 134.181            | 0.408   |
| 1E+12                                                      | 33       | 127.551             | 128.128            | 0.577   |
| 5E+12                                                      | 34       | 131.087             | 131.741            | 0.653   |
| 5E+12                                                      | 35       | 124.233             | 124.499            | 0.265   |
| 5E+12                                                      | 36       | 127.061             | 127.804            | 0.742   |
| 5E+12                                                      | 37       | 126.949             | 137.469            | 10.520  |
| 1E+13                                                      | 38       | 138.838             | 139.007            | 0.169   |
| 1E+13                                                      | 39       | 134.518             | 128.043            | -6.475  |
| 1E+13                                                      | 40       | 134.645             | 134.540            | -0.105  |
| 1E+13                                                      | 41       | 134.566             | 135.004            | 0.438   |
|                                                            | Max      | 146.949             | 147.325            | 19.102  |
|                                                            | Average  | 132.011             | 132.266            | 0.255   |
|                                                            | Min      | 124.233             | 124.090            | -22.860 |
|                                                            | Std Dev  | 5.741               | 6.081              | 8.739   |



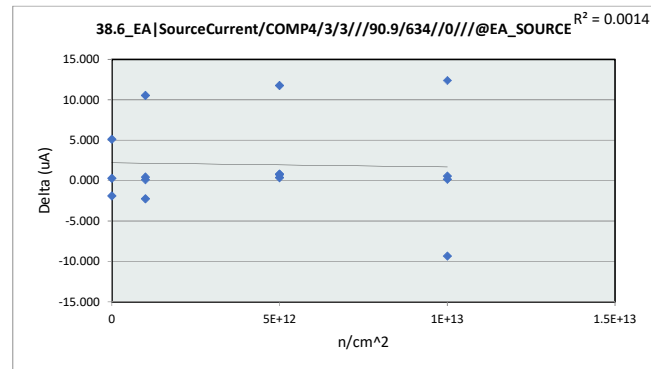
| 38.5_EA SourceCurrent/COMP1/3/3///90.9/634//0///@EA_SOURCE |         |         |         |         |
|------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                  |         |         |         |         |
| Tester                                                     |         |         |         |         |
| Test Number                                                |         |         |         |         |
| Max Limit                                                  | 199     |         | uA      |         |
| Min Limit                                                  | 89      |         | uA      |         |
| n/cm^2                                                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                         | 89.000  | 89.000  | 89.000  | 89.000  |
| Min                                                        | 124.090 | 128.128 | 124.499 | 128.043 |
| Average                                                    | 133.350 | 131.458 | 130.378 | 134.149 |
| Max                                                        | 147.325 | 134.181 | 137.469 | 139.007 |
| UL                                                         | 199.000 | 199.000 | 199.000 | 199.000 |



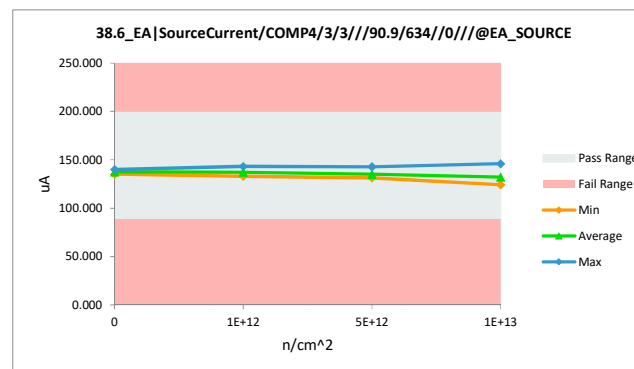


## NDD Report TPS7H4102-SP

| 38.6_EA SourceCurrent/COMP4/3/3///90.9/634//0///@EA_SOURCE |          |                     |                    |        |
|------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                  |          |                     |                    |        |
| Tester                                                     |          |                     |                    |        |
| Test Number                                                |          |                     |                    |        |
| Unit                                                       | uA       |                     | uA                 |        |
| Max Limit                                                  | 200      |                     | 199                |        |
| Min Limit                                                  | 88       |                     | 89                 |        |
| n/cm^2                                                     | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                          | 1        | 139.754             | 137.839            | -1.915 |
| 0                                                          | 2        | 134.814             | 139.932            | 5.118  |
| 0                                                          | 3        | 134.800             | 135.086            | 0.286  |
| 1E+12                                                      | 30       | 132.756             | 143.285            | 10.529 |
| 1E+12                                                      | 31       | 135.202             | 132.959            | -2.243 |
| 1E+12                                                      | 32       | 135.160             | 135.262            | 0.102  |
| 1E+12                                                      | 33       | 136.309             | 136.736            | 0.427  |
| 5E+12                                                      | 34       | 131.115             | 131.881            | 0.766  |
| 5E+12                                                      | 35       | 133.704             | 134.486            | 0.783  |
| 5E+12                                                      | 36       | 131.054             | 131.410            | 0.356  |
| 5E+12                                                      | 37       | 131.003             | 142.779            | 11.776 |
| 1E+13                                                      | 38       | 124.024             | 124.569            | 0.545  |
| 1E+13                                                      | 39       | 133.548             | 124.217            | -9.331 |
| 1E+13                                                      | 40       | 133.649             | 146.023            | 12.374 |
| 1E+13                                                      | 41       | 133.605             | 133.773            | 0.168  |
|                                                            | Max      | 139.754             | 146.023            | 12.374 |
|                                                            | Average  | 133.366             | 135.349            | 1.983  |
|                                                            | Min      | 124.024             | 124.217            | -9.331 |
|                                                            | Std Dev  | 3.424               | 6.199              | 5.779  |

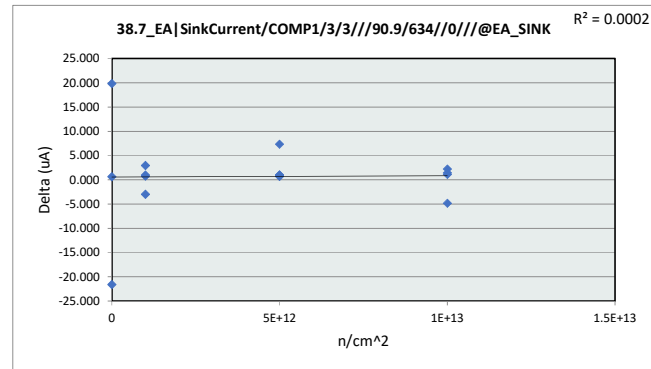


| 38.6_EA SourceCurrent/COMP4/3/3///90.9/634//0///@EA_SOURCE |         |         |         |         |
|------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                  |         |         |         |         |
| Tester                                                     |         |         |         |         |
| Test Number                                                |         |         |         |         |
| Max Limit                                                  | 199     |         | uA      |         |
| Min Limit                                                  | 89      |         | uA      |         |
| n/cm^2                                                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                         | 89.000  | 89.000  | 89.000  | 89.000  |
| Min                                                        | 135.086 | 132.959 | 131.410 | 124.217 |
| Average                                                    | 137.619 | 137.060 | 135.139 | 132.145 |
| Max                                                        | 139.932 | 143.285 | 142.779 | 146.023 |
| UL                                                         | 199.000 | 199.000 | 199.000 | 199.000 |

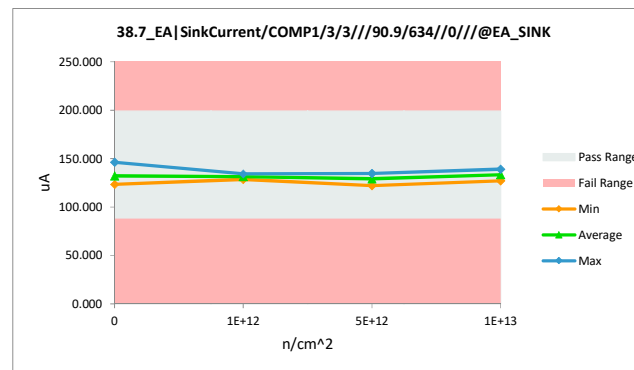


## NDD Report TPS7H4102-SP

| 38.7_EA SinkCurrent/COMP1/3/3///90.9 |          |                     |                    |         |
|--------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                            |          |                     |                    |         |
| Tester                               |          |                     |                    |         |
| Test Number                          |          |                     |                    |         |
| Unit                                 | uA       |                     | uA                 |         |
| Max Limit                            | 200      |                     | 199                |         |
| Min Limit                            | 87       |                     | 88                 |         |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                    | 1        | 145.098             | 123.494            | -21.604 |
| 0                                    | 2        | 126.445             | 146.237            | 19.792  |
| 0                                    | 3        | 126.424             | 127.039            | 0.615   |
| 1E+12                                | 30       | 129.604             | 132.560            | 2.956   |
| 1E+12                                | 31       | 133.331             | 130.335            | -2.996  |
| 1E+12                                | 32       | 133.343             | 134.350            | 1.007   |
| 1E+12                                | 33       | 127.770             | 128.513            | 0.743   |
| 5E+12                                | 34       | 130.690             | 131.675            | 0.984   |
| 5E+12                                | 35       | 121.389             | 122.083            | 0.694   |
| 5E+12                                | 36       | 127.332             | 128.308            | 0.976   |
| 5E+12                                | 37       | 127.345             | 134.681            | 7.336   |
| 1E+13                                | 38       | 137.845             | 139.238            | 1.393   |
| 1E+13                                | 39       | 131.939             | 127.095            | -4.844  |
| 1E+13                                | 40       | 131.896             | 134.114            | 2.217   |
| 1E+13                                | 41       | 131.913             | 133.000            | 1.087   |
|                                      | Max      | 145.098             | 146.237            | 19.792  |
|                                      | Average  | 130.824             | 131.515            | 0.690   |
|                                      | Min      | 121.389             | 122.083            | -21.604 |
|                                      | Std Dev  | 5.555               | 6.083              | 8.275   |

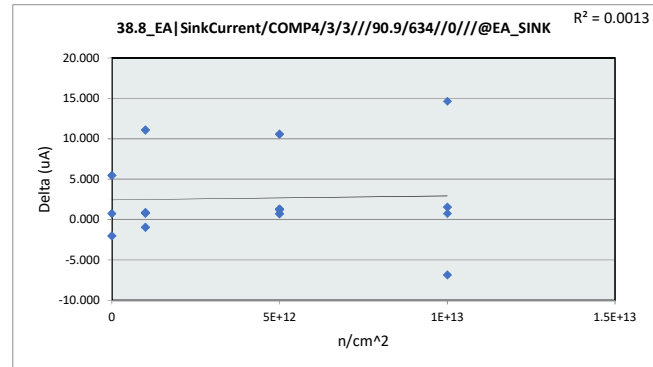


| 38.7_EA SinkCurrent/COMP1/ |         |         |         |         |
|----------------------------|---------|---------|---------|---------|
| Test Site                  |         |         |         |         |
| Tester                     |         |         |         |         |
| Test Number                |         |         |         |         |
| Max Limit                  | 199     |         | uA      |         |
| Min Limit                  | 88      |         | uA      |         |
| n/cm^2                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                         | 88.000  | 88.000  | 88.000  | 88.000  |
| Min                        | 123.494 | 128.513 | 122.083 | 127.095 |
| Average                    | 132.257 | 131.440 | 129.187 | 133.362 |
| Max                        | 146.237 | 134.350 | 134.681 | 139.238 |
| UL                         | 199.000 | 199.000 | 199.000 | 199.000 |

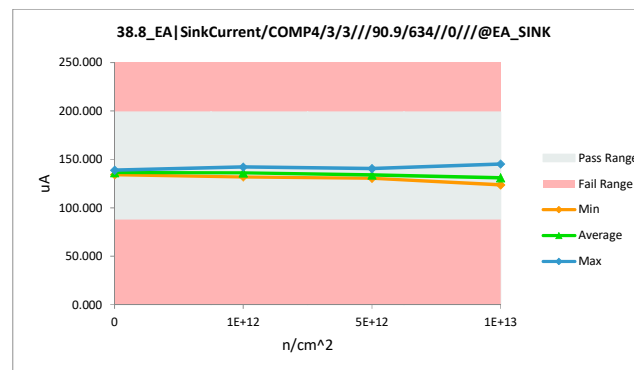


## NDD Report TPS7H4102-SP

| 38.8_EA SinkCurrent/COMP4/3/3///90.9 |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | uA       |                     | uA                 |        |
| Max Limit                            | 200      |                     | 199                |        |
| Min Limit                            | 87       |                     | 88                 |        |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 138.008             | 135.978            | -2.031 |
| 0                                    | 2        | 133.501             | 138.934            | 5.433  |
| 0                                    | 3        | 133.527             | 134.235            | 0.708  |
| 1E+12                                | 30       | 131.146             | 142.192            | 11.046 |
| 1E+12                                | 31       | 132.821             | 131.854            | -0.967 |
| 1E+12                                | 32       | 132.750             | 133.593            | 0.843  |
| 1E+12                                | 33       | 136.037             | 136.806            | 0.770  |
| 5E+12                                | 34       | 130.348             | 131.552            | 1.204  |
| 5E+12                                | 35       | 132.151             | 133.434            | 1.283  |
| 5E+12                                | 36       | 129.928             | 130.632            | 0.704  |
| 5E+12                                | 37       | 129.986             | 140.548            | 10.562 |
| 1E+13                                | 38       | 122.361             | 123.876            | 1.515  |
| 1E+13                                | 39       | 130.634             | 123.760            | -6.874 |
| 1E+13                                | 40       | 130.583             | 145.209            | 14.626 |
| 1E+13                                | 41       | 130.692             | 131.398            | 0.706  |
|                                      | Max      | 138.008             | 145.209            | 14.626 |
|                                      | Average  | 131.632             | 134.267            | 2.635  |
|                                      | Min      | 122.361             | 123.760            | -6.874 |
|                                      | Std Dev  | 3.449               | 6.020              | 5.563  |

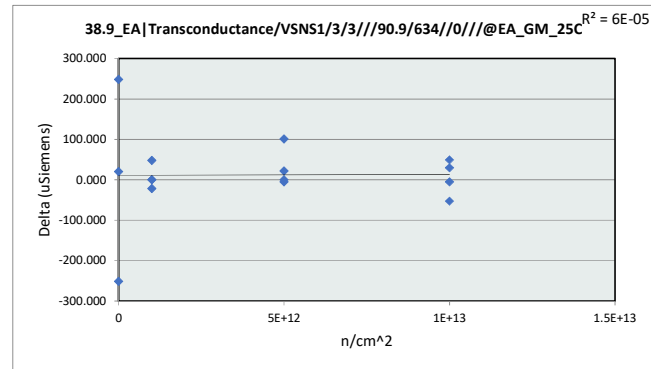


| 38.8_EA SinkCurrent/COMP4/ |         |         |         |         |
|----------------------------|---------|---------|---------|---------|
| Test Site                  |         |         |         |         |
| Tester                     |         |         |         |         |
| Test Number                |         |         |         |         |
| Max Limit                  | 199     |         | uA      |         |
| Min Limit                  | 88      |         | uA      |         |
| n/cm^2                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                         | 88.000  | 88.000  | 88.000  | 88.000  |
| Min                        | 134.235 | 131.854 | 130.632 | 123.761 |
| Average                    | 136.382 | 136.111 | 134.041 | 131.061 |
| Max                        | 138.934 | 142.192 | 140.548 | 145.209 |
| UL                         | 199.000 | 199.000 | 199.000 | 199.000 |

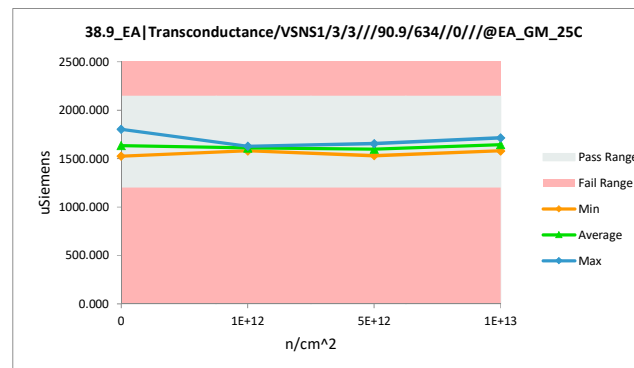


## NDD Report TPS7H4102-SP

| 38.9_EA Transconductance/VSNS1/3/3// |          |                     |                    |          |
|--------------------------------------|----------|---------------------|--------------------|----------|
| Test Site                            |          |                     |                    |          |
| Tester                               |          |                     |                    |          |
| Test Number                          |          |                     |                    |          |
| Unit                                 | uSiemens |                     | uSiemens           |          |
| Max Limit                            | 2191     |                     | 2143               |          |
| Min Limit                            | 1153     |                     | 1201               |          |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta    |
| 0                                    | 1        | 1777.307            | 1525.801           | -251.506 |
| 0                                    | 2        | 1555.144            | 1803.735           | 248.592  |
| 0                                    | 3        | 1555.144            | 1575.340           | 20.197   |
| 1E+12                                | 30       | 1580.472            | 1628.204           | 47.732   |
| 1E+12                                | 31       | 1628.204            | 1606.639           | -21.566  |
| 1E+12                                | 32       | 1628.204            | 1628.204           | 0.000    |
| 1E+12                                | 33       | 1580.472            | 1580.472           | 0.000    |
| 5E+12                                | 34       | 1606.639            | 1628.204           | 21.566   |
| 5E+12                                | 35       | 1530.615            | 1530.615           | 0.000    |
| 5E+12                                | 36       | 1580.472            | 1575.340           | -5.131   |
| 5E+12                                | 37       | 1555.144            | 1655.989           | 100.846  |
| 1E+13                                | 38       | 1684.739            | 1714.505           | 29.766   |
| 1E+13                                | 39       | 1633.686            | 1580.472           | -53.214  |
| 1E+13                                | 40       | 1606.639            | 1655.989           | 49.351   |
| 1E+13                                | 41       | 1633.686            | 1628.204           | -5.482   |
|                                      | Max      | 1777.307            | 1803.735           | 248.592  |
|                                      | Average  | 1609.104            | 1621.181           | 12.077   |
|                                      | Min      | 1530.615            | 1525.801           | -251.506 |
|                                      | Std Dev  | 61.713              | 70.551             | 101.017  |

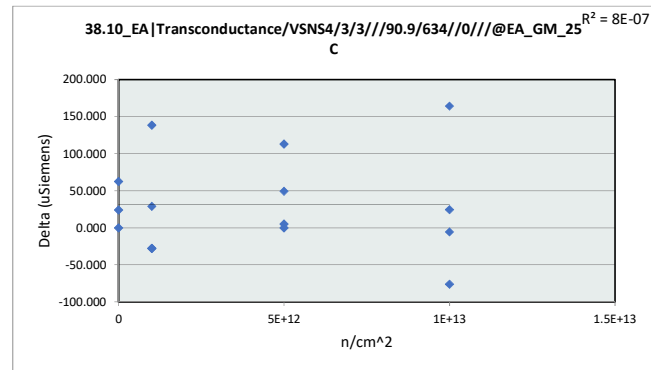


| 38.9_EA Transconductance/VSNS1/3/3// |          |          |          |          |
|--------------------------------------|----------|----------|----------|----------|
| Test Site                            |          |          |          |          |
| Tester                               |          |          |          |          |
| Test Number                          |          |          |          |          |
| Max Limit                            | 2143     |          | uSiemens |          |
| Min Limit                            | 1201     |          | uSiemens |          |
| n/cm^2                               | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                   | 1201.000 | 1201.000 | 1201.000 | 1201.000 |
| Min                                  | 1525.801 | 1580.472 | 1530.615 | 1580.472 |
| Average                              | 1634.959 | 1610.880 | 1597.537 | 1644.792 |
| Max                                  | 1803.736 | 1628.204 | 1655.989 | 1714.505 |
| UL                                   | 2143.000 | 2143.000 | 2143.000 | 2143.000 |

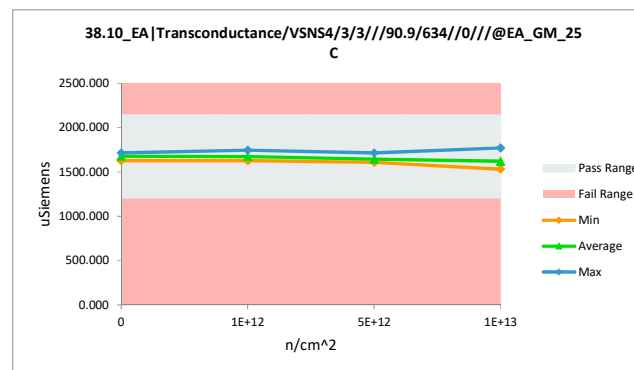


## NDD Report TPS7H4102-SP

| 38.10_EA Transconductance/VSNS4/3/3/ |          |                     |                    |         |
|--------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                            |          |                     |                    |         |
| Tester                               |          |                     |                    |         |
| Test Number                          |          |                     |                    |         |
| Unit                                 | uSiemens |                     | uSiemens           |         |
| Max Limit                            | 2191     |                     | 2143               |         |
| Min Limit                            | 1153     |                     | 1201               |         |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                    | 1        | 1690.609            | 1714.505           | 23.896  |
| 0                                    | 2        | 1628.204            | 1690.609           | 62.405  |
| 0                                    | 3        | 1628.204            | 1628.204           | 0.000   |
| 1E+12                                | 30       | 1606.639            | 1745.341           | 138.703 |
| 1E+12                                | 31       | 1655.989            | 1628.204           | -27.785 |
| 1E+12                                | 32       | 1655.989            | 1628.204           | -27.785 |
| 1E+12                                | 33       | 1661.660            | 1690.609           | 28.949  |
| 5E+12                                | 34       | 1606.639            | 1606.639           | 0.000   |
| 5E+12                                | 35       | 1606.639            | 1655.989           | 49.351  |
| 5E+12                                | 36       | 1601.336            | 1606.639           | 5.302   |
| 5E+12                                | 37       | 1601.336            | 1714.505           | 113.169 |
| 1E+13                                | 38       | 1530.615            | 1555.144           | 24.529  |
| 1E+13                                | 39       | 1606.639            | 1530.615           | -76.024 |
| 1E+13                                | 40       | 1606.639            | 1770.821           | 164.182 |
| 1E+13                                | 41       | 1633.686            | 1628.204           | -5.482  |
|                                      | Max      | 1690.609            | 1770.821           | 164.182 |
|                                      | Average  | 1621.388            | 1652.949           | 31.561  |
|                                      | Min      | 1530.615            | 1530.615           | -76.024 |
|                                      | Std Dev  | 37.017              | 67.678             | 65.347  |

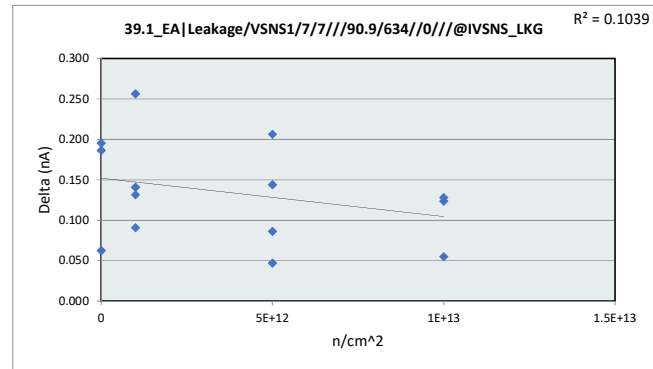


| 38.10_EA Transconductance/V |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|
| Test Site                   |          |          |          |          |
| Tester                      |          |          |          |          |
| Test Number                 |          |          |          |          |
| Max Limit                   | 2143     |          | uSiemens |          |
| Min Limit                   | 1201     |          | uSiemens |          |
| n/cm^2                      | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                          | 1201.000 | 1201.000 | 1201.000 | 1201.000 |
| Min                         | 1628.204 | 1628.204 | 1606.639 | 1530.615 |
| Average                     | 1677.773 | 1673.090 | 1645.943 | 1621.196 |
| Max                         | 1714.505 | 1745.341 | 1714.505 | 1770.821 |
| UL                          | 2143.000 | 2143.000 | 2143.000 | 2143.000 |

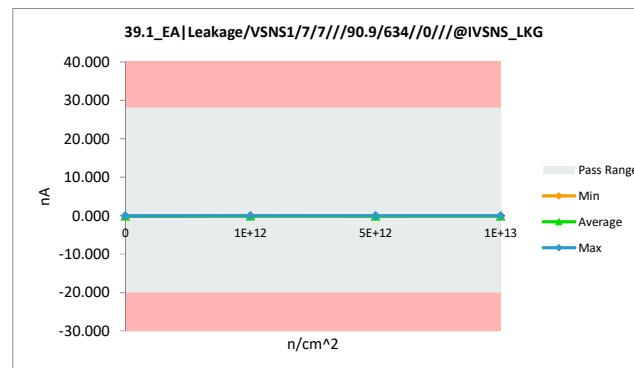


## NDD Report TPS7H4102-SP

| 39.1_EA Leakage/VSNS1/7/7///90.9/63 |          |                     |                    |       |
|-------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                           |          |                     |                    |       |
| Tester                              |          |                     |                    |       |
| Test Number                         |          |                     |                    |       |
| Unit                                | nA       | nA                  |                    |       |
| Max Limit                           | 30       | 28                  |                    |       |
| Min Limit                           | -29.6    | -20                 |                    |       |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                   | 1        | -0.247              | -0.061             | 0.186 |
| 0                                   | 2        | -0.188              | -0.125             | 0.063 |
| 0                                   | 3        | -0.256              | -0.061             | 0.196 |
| 1E+12                               | 30       | -0.197              | -0.106             | 0.091 |
| 1E+12                               | 31       | -0.186              | -0.045             | 0.141 |
| 1E+12                               | 32       | -0.191              | -0.059             | 0.131 |
| 1E+12                               | 33       | -0.249              | 0.008              | 0.256 |
| 5E+12                               | 34       | -0.167              | -0.081             | 0.086 |
| 5E+12                               | 35       | -0.180              | -0.133             | 0.047 |
| 5E+12                               | 36       | -0.209              | -0.065             | 0.144 |
| 5E+12                               | 37       | -0.216              | -0.009             | 0.207 |
| 1E+13                               | 38       | -0.202              | -0.073             | 0.128 |
| 1E+13                               | 39       | -0.169              | -0.114             | 0.055 |
| 1E+13                               | 40       | -0.180              | -0.056             | 0.124 |
| 1E+13                               | 41       | -0.191              | -0.067             | 0.124 |
|                                     | Max      | -0.167              | 0.008              | 0.256 |
|                                     | Average  | -0.202              | -0.070             | 0.132 |
|                                     | Min      | -0.256              | -0.133             | 0.047 |
|                                     | Std Dev  | 0.029               | 0.039              | 0.060 |

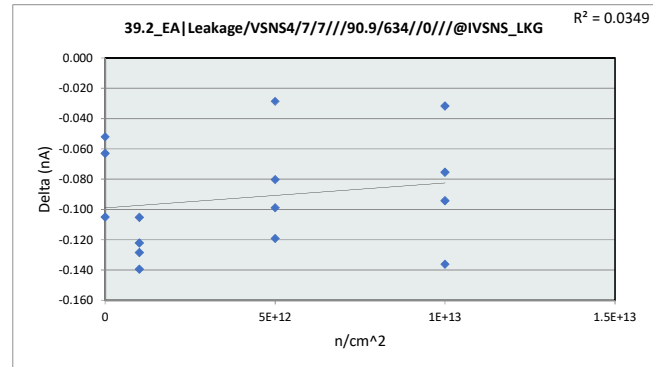


| 39.1_EA Leakage/VSNS1/7/7 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 28      | nA      |         |         |
| Min Limit                 | -20     | nA      |         |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | -20.000 | -20.000 | -20.000 | -20.000 |
| Min                       | -0.125  | -0.106  | -0.133  | -0.114  |
| Average                   | -0.082  | -0.051  | -0.072  | -0.078  |
| Max                       | -0.061  | 0.008   | -0.009  | -0.056  |
| UL                        | 28.000  | 28.000  | 28.000  | 28.000  |

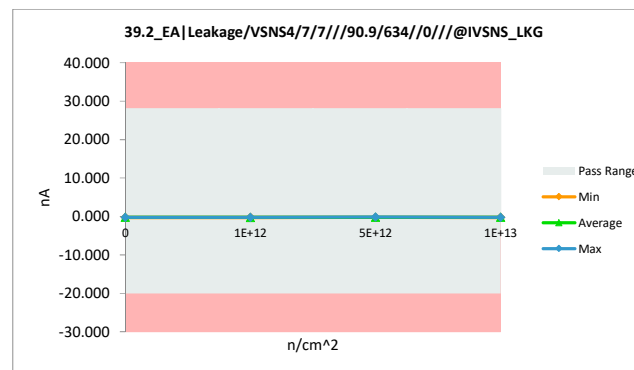


## NDD Report TPS7H4102-SP

| 39.2_EA Leakage/VSNS4/7/7///90.9/63 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | nA       | nA                  |                    |        |
| Max Limit                           | 30       | 28                  |                    |        |
| Min Limit                           | -29.6    | -20                 |                    |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | -0.145              | -0.197             | -0.052 |
| 0                                   | 2        | -0.145              | -0.250             | -0.105 |
| 0                                   | 3        | -0.128              | -0.191             | -0.063 |
| 1E+12                               | 30       | -0.117              | -0.245             | -0.128 |
| 1E+12                               | 31       | -0.078              | -0.217             | -0.139 |
| 1E+12                               | 32       | -0.142              | -0.264             | -0.122 |
| 1E+12                               | 33       | -0.089              | -0.194             | -0.105 |
| 5E+12                               | 34       | -0.075              | -0.155             | -0.080 |
| 5E+12                               | 35       | -0.100              | -0.198             | -0.099 |
| 5E+12                               | 36       | -0.175              | -0.203             | -0.029 |
| 5E+12                               | 37       | -0.117              | -0.236             | -0.119 |
| 1E+13                               | 38       | -0.114              | -0.208             | -0.094 |
| 1E+13                               | 39       | -0.201              | -0.233             | -0.032 |
| 1E+13                               | 40       | -0.106              | -0.242             | -0.136 |
| 1E+13                               | 41       | -0.140              | -0.216             | -0.075 |
|                                     | Max      | -0.075              | -0.155             | -0.029 |
|                                     | Average  | -0.125              | -0.216             | -0.092 |
|                                     | Min      | -0.201              | -0.264             | -0.139 |
|                                     | Std Dev  | 0.035               | 0.029              | 0.036  |

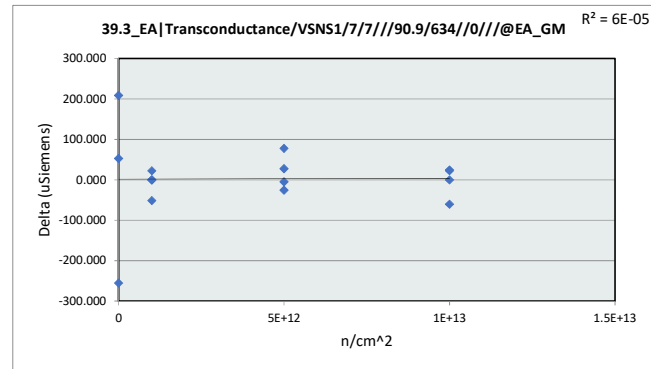


| 39.2_EA Leakage/VSNS4/7/7 |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 28      | nA      |         |         |
| Min Limit                 | -20     | nA      |         |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | -20.000 | -20.000 | -20.000 | -20.000 |
| Min                       | -0.250  | -0.264  | -0.236  | -0.242  |
| Average                   | -0.212  | -0.230  | -0.198  | -0.225  |
| Max                       | -0.191  | -0.194  | -0.155  | -0.208  |
| UL                        | 28.000  | 28.000  | 28.000  | 28.000  |

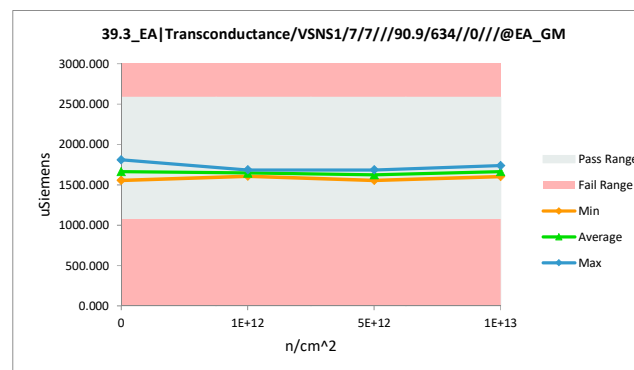


## NDD Report TPS7H4102-SP

| 39.3_EA Transconductance/VSNS1/7/7// |          |                     |                    |          |
|--------------------------------------|----------|---------------------|--------------------|----------|
| Test Site                            |          |                     |                    |          |
| Tester                               |          |                     |                    |          |
| Test Number                          |          |                     |                    |          |
| Unit                                 | uSiemens |                     | uSiemens           |          |
| Max Limit                            | 2630     |                     | 2582               |          |
| Min Limit                            | 1029     |                     | 1077               |          |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta    |
| 0                                    | 1        | 1810.466            | 1555.144           | -255.322 |
| 0                                    | 2        | 1601.336            | 1810.466           | 209.130  |
| 0                                    | 3        | 1575.340            | 1628.204           | 52.864   |
| 1E+12                                | 30       | 1633.686            | 1655.989           | 22.303   |
| 1E+12                                | 31       | 1684.739            | 1633.686           | -51.053  |
| 1E+12                                | 32       | 1684.739            | 1684.739           | 0.000    |
| 1E+12                                | 33       | 1606.639            | 1606.639           | 0.000    |
| 5E+12                                | 34       | 1628.204            | 1655.989           | 27.785   |
| 5E+12                                | 35       | 1580.472            | 1555.144           | -25.328  |
| 5E+12                                | 36       | 1606.639            | 1601.336           | -5.302   |
| 5E+12                                | 37       | 1606.639            | 1684.739           | 78.100   |
| 1E+13                                | 38       | 1714.505            | 1739.085           | 24.581   |
| 1E+13                                | 39       | 1661.660            | 1601.336           | -60.324  |
| 1E+13                                | 40       | 1661.660            | 1661.660           | 0.000    |
| 1E+13                                | 41       | 1633.686            | 1655.989           | 22.303   |
|                                      | Max      | 1810.466            | 1810.466           | 209.130  |
|                                      | Average  | 1646.027            | 1648.676           | 2.649    |
|                                      | Min      | 1575.340            | 1555.144           | -255.322 |
|                                      | Std Dev  | 60.818              | 66.370             | 95.244   |



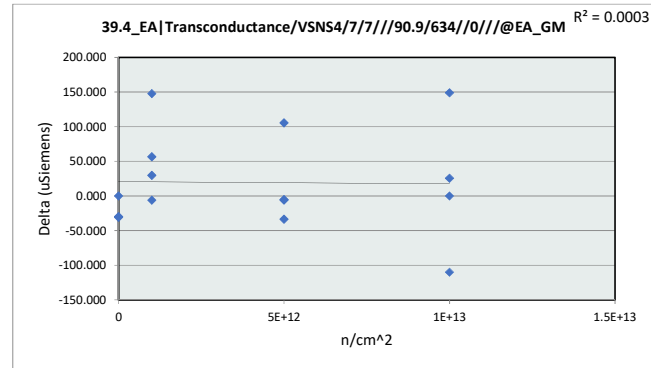
| 39.3_EA Transconductance/VSNS1/7/7//90.9/634//0///@EA_GM |          |          |          |          |
|----------------------------------------------------------|----------|----------|----------|----------|
| Test Site                                                |          |          |          |          |
| Tester                                                   |          |          |          |          |
| Test Number                                              |          |          |          |          |
| Max Limit                                                | 2582     |          | uSiemens |          |
| Min Limit                                                | 1077     |          | uSiemens |          |
| n/cm^2                                                   | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                                       | 1077.000 | 1077.000 | 1077.000 | 1077.000 |
| Min                                                      | 1555.144 | 1606.639 | 1555.144 | 1601.336 |
| Average                                                  | 1664.605 | 1645.263 | 1624.302 | 1664.518 |
| Max                                                      | 1810.466 | 1684.739 | 1684.739 | 1739.085 |
| UL                                                       | 2582.000 | 2582.000 | 2582.000 | 2582.000 |



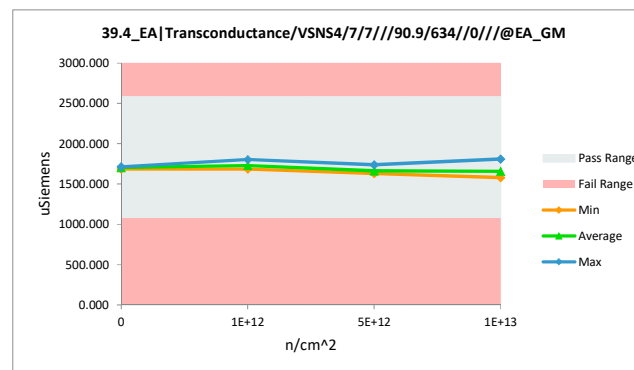


## NDD Report TPS7H4102-SP

| 39.4_EA Transconductance/VSNS4/7/7// |          |                     |                    |          |
|--------------------------------------|----------|---------------------|--------------------|----------|
| Test Site                            |          |                     |                    |          |
| Tester                               |          |                     |                    |          |
| Test Number                          |          |                     |                    |          |
| Unit                                 | uSiemens |                     | uSiemens           |          |
| Max Limit                            | 2630     |                     | 2582               |          |
| Min Limit                            | 1029     |                     | 1077               |          |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta    |
| 0                                    | 1        | 1745.341            | 1714.505           | -30.836  |
| 0                                    | 2        | 1714.505            | 1714.505           | 0.000    |
| 0                                    | 3        | 1714.505            | 1684.739           | -29.766  |
| 1E+12                                | 30       | 1655.989            | 1803.735           | 147.746  |
| 1E+12                                | 31       | 1628.204            | 1684.739           | 56.535   |
| 1E+12                                | 32       | 1684.739            | 1714.505           | 29.766   |
| 1E+12                                | 33       | 1720.584            | 1714.505           | -6.080   |
| 5E+12                                | 34       | 1633.686            | 1628.204           | -5.482   |
| 5E+12                                | 35       | 1661.660            | 1655.989           | -5.671   |
| 5E+12                                | 36       | 1661.660            | 1628.204           | -33.456  |
| 5E+12                                | 37       | 1633.686            | 1739.085           | 105.399  |
| 1E+13                                | 38       | 1555.144            | 1580.472           | 25.328   |
| 1E+13                                | 39       | 1690.609            | 1580.472           | -110.137 |
| 1E+13                                | 40       | 1661.660            | 1810.466           | 148.805  |
| 1E+13                                | 41       | 1661.660            | 1661.660           | 0.000    |
|                                      | Max      | 1745.341            | 1810.466           | 148.805  |
|                                      | Average  | 1668.242            | 1687.719           | 19.477   |
|                                      | Min      | 1555.144            | 1580.472           | -110.137 |
|                                      | Std Dev  | 46.937              | 68.570             | 70.356   |

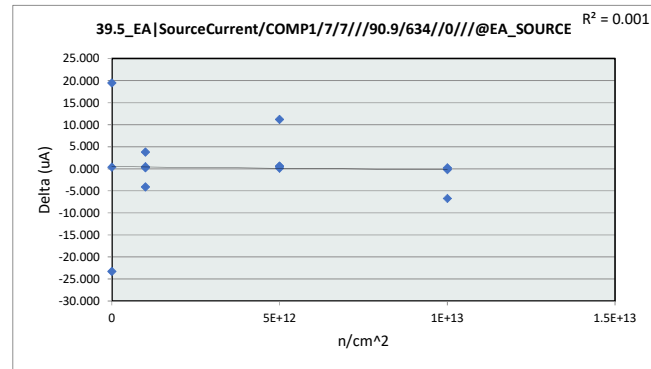


| 39.4_EA Transconductance/VSNS4/7/7//90.9/634//0//@EA_GM |          |          |          |          |
|---------------------------------------------------------|----------|----------|----------|----------|
| Test Site                                               |          |          |          |          |
| Tester                                                  |          |          |          |          |
| Test Number                                             |          |          |          |          |
| Max Limit                                               | 2582     |          | uSiemens |          |
| Min Limit                                               | 1077     |          | uSiemens |          |
| n/cm^2                                                  | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                                      | 1077.000 | 1077.000 | 1077.000 | 1077.000 |
| Min                                                     | 1684.739 | 1684.739 | 1628.204 | 1580.472 |
| Average                                                 | 1704.583 | 1729.371 | 1662.871 | 1658.267 |
| Max                                                     | 1714.505 | 1803.736 | 1739.085 | 1810.466 |
| UL                                                      | 2582.000 | 2582.000 | 2582.000 | 2582.000 |

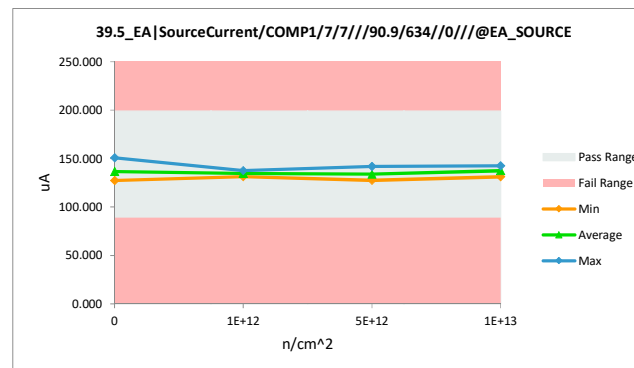


## NDD Report TPS7H4102-SP

| 39.5_EA SourceCurrent/COMP1/7/7///90.9/634//0///@EA_SOURCE |          |                     |                    |         |
|------------------------------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                                                  |          |                     |                    |         |
| Tester                                                     |          |                     |                    |         |
| Test Number                                                |          |                     |                    |         |
| Unit                                                       | uA       |                     | uA                 |         |
| Max Limit                                                  | 200      |                     | 199                |         |
| Min Limit                                                  | 88       |                     | 89                 |         |
| n/cm^2                                                     | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                                          | 1        | 150.604             | 127.321            | -23.284 |
| 0                                                          | 2        | 131.439             | 150.901            | 19.462  |
| 0                                                          | 3        | 131.398             | 131.750            | 0.352   |
| 1E+12                                                      | 30       | 133.018             | 136.816            | 3.798   |
| 1E+12                                                      | 31       | 137.445             | 133.352            | -4.094  |
| 1E+12                                                      | 32       | 137.387             | 137.665            | 0.279   |
| 1E+12                                                      | 33       | 130.836             | 131.307            | 0.471   |
| 5E+12                                                      | 34       | 134.378             | 134.897            | 0.519   |
| 5E+12                                                      | 35       | 127.489             | 127.636            | 0.147   |
| 5E+12                                                      | 36       | 130.658             | 131.279            | 0.620   |
| 5E+12                                                      | 37       | 130.636             | 141.852            | 11.216  |
| 1E+13                                                      | 38       | 142.805             | 142.568            | -0.237  |
| 1E+13                                                      | 39       | 137.987             | 131.296            | -6.691  |
| 1E+13                                                      | 40       | 138.035             | 137.984            | -0.051  |
| 1E+13                                                      | 41       | 137.987             | 138.221            | 0.233   |
|                                                            | Max      | 150.604             | 150.901            | 19.462  |
|                                                            | Average  | 135.474             | 135.656            | 0.183   |
|                                                            | Min      | 127.489             | 127.321            | -23.284 |
|                                                            | Std Dev  | 5.864               | 6.256              | 8.958   |

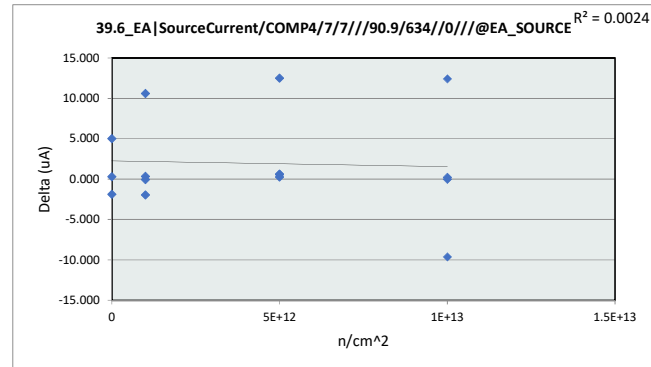


| 39.5_EA SourceCurrent/COMP1/7/7///90.9/634//0///@EA_SOURCE |         |         |         |         |
|------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                  |         |         |         |         |
| Tester                                                     |         |         |         |         |
| Test Number                                                |         |         |         |         |
| Max Limit                                                  | 199     |         | uA      |         |
| Min Limit                                                  | 89      |         | uA      |         |
| n/cm^2                                                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                         | 89.000  | 89.000  | 89.000  | 89.000  |
| Min                                                        | 127.321 | 131.307 | 127.636 | 131.296 |
| Average                                                    | 136.657 | 134.785 | 133.916 | 137.517 |
| Max                                                        | 150.901 | 137.665 | 141.852 | 142.568 |
| UL                                                         | 199.000 | 199.000 | 199.000 | 199.000 |

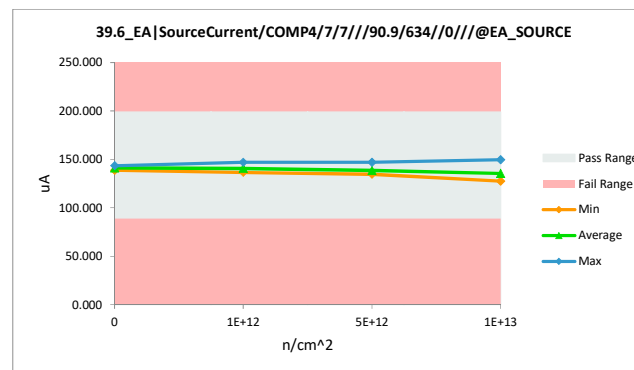


## NDD Report TPS7H4102-SP

| 39.6_EA SourceCurrent/COMP4/7/7///90.9/634//0///@EA_SOURCE |          |                     |                    |        |
|------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                  |          |                     |                    |        |
| Tester                                                     |          |                     |                    |        |
| Test Number                                                |          |                     |                    |        |
| Unit                                                       | uA       |                     | uA                 |        |
| Max Limit                                                  | 200      |                     | 199                |        |
| Min Limit                                                  | 88       |                     | 89                 |        |
| n/cm^2                                                     | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                          | 1        | 143.338             | 141.443            | -1.895 |
| 0                                                          | 2        | 138.512             | 143.528            | 5.016  |
| 0                                                          | 3        | 138.456             | 138.740            | 0.284  |
| 1E+12                                                      | 30       | 136.430             | 147.035            | 10.605 |
| 1E+12                                                      | 31       | 138.557             | 136.589            | -1.968 |
| 1E+12                                                      | 32       | 138.683             | 138.623            | -0.059 |
| 1E+12                                                      | 33       | 139.870             | 140.212            | 0.343  |
| 5E+12                                                      | 34       | 134.562             | 135.147            | 0.584  |
| 5E+12                                                      | 35       | 137.335             | 137.941            | 0.606  |
| 5E+12                                                      | 36       | 134.445             | 134.720            | 0.275  |
| 5E+12                                                      | 37       | 134.436             | 146.924            | 12.488 |
| 1E+13                                                      | 38       | 127.554             | 127.768            | 0.214  |
| 1E+13                                                      | 39       | 137.233             | 127.606            | -9.627 |
| 1E+13                                                      | 40       | 137.353             | 149.742            | 12.388 |
| 1E+13                                                      | 41       | 137.191             | 137.163            | -0.029 |
|                                                            | Max      | 143.338             | 149.742            | 12.488 |
|                                                            | Average  | 136.930             | 138.879            | 1.948  |
|                                                            | Min      | 127.554             | 127.606            | -9.627 |
|                                                            | Std Dev  | 3.453               | 6.381              | 5.924  |

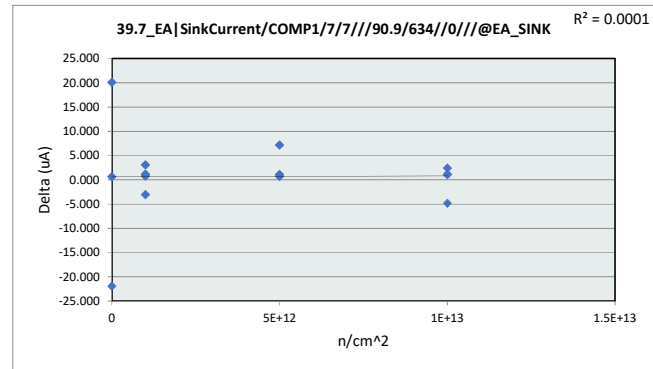


| 39.6_EA SourceCurrent/COMP4/7/7///90.9/634//0///@EA_SOURCE |         |         |         |         |
|------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                  |         |         |         |         |
| Tester                                                     |         |         |         |         |
| Test Number                                                |         |         |         |         |
| Max Limit                                                  | 199     |         | uA      |         |
| Min Limit                                                  | 89      |         | uA      |         |
| n/cm^2                                                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                         | 89.000  | 89.000  | 89.000  | 89.000  |
| Min                                                        | 138.740 | 136.589 | 134.720 | 127.606 |
| Average                                                    | 141.237 | 140.615 | 138.683 | 135.570 |
| Max                                                        | 143.528 | 147.035 | 146.924 | 149.742 |
| UL                                                         | 199.000 | 199.000 | 199.000 | 199.000 |

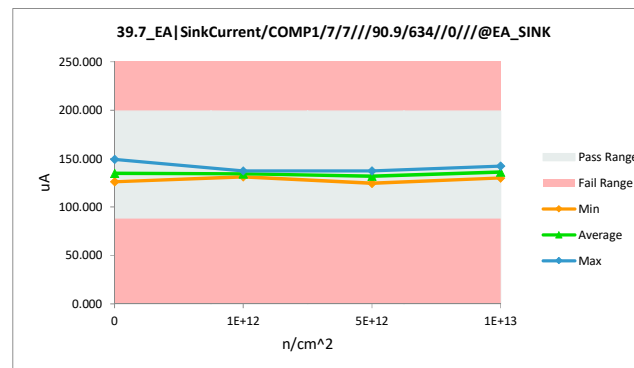


## NDD Report TPS7H4102-SP

| 39.7_EA SinkCurrent/COMP1/7/7///90.9 |          |                     |                    |         |
|--------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                            |          |                     |                    |         |
| Tester                               |          |                     |                    |         |
| Test Number                          |          |                     |                    |         |
| Unit                                 | uA       |                     | uA                 |         |
| Max Limit                            | 200      |                     | 199                |         |
| Min Limit                            | 87       |                     | 88                 |         |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                    | 1        | 148.093             | 126.151            | -21.942 |
| 0                                    | 2        | 129.028             | 149.122            | 20.094  |
| 0                                    | 3        | 129.001             | 129.638            | 0.637   |
| 1E+12                                | 30       | 132.255             | 135.348            | 3.093   |
| 1E+12                                | 31       | 136.133             | 133.065            | -3.068  |
| 1E+12                                | 32       | 136.118             | 137.268            | 1.149   |
| 1E+12                                | 33       | 130.423             | 131.202            | 0.779   |
| 5E+12                                | 34       | 133.359             | 134.348            | 0.990   |
| 5E+12                                | 35       | 123.967             | 124.624            | 0.657   |
| 5E+12                                | 36       | 130.240             | 131.296            | 1.057   |
| 5E+12                                | 37       | 130.168             | 137.336            | 7.168   |
| 1E+13                                | 38       | 140.978             | 142.185            | 1.207   |
| 1E+13                                | 39       | 134.679             | 129.871            | -4.809  |
| 1E+13                                | 40       | 134.612             | 137.031            | 2.419   |
| 1E+13                                | 41       | 134.669             | 135.722            | 1.052   |
|                                      | Max      | 148.093             | 149.122            | 20.094  |
|                                      | Average  | 133.582             | 134.280            | 0.699   |
|                                      | Min      | 123.967             | 124.624            | -21.942 |
|                                      | Std Dev  | 5.672               | 6.164              | 8.386   |

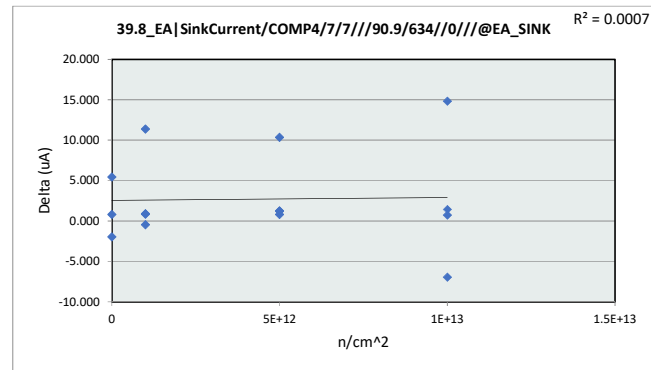


| 39.7_EA SinkCurrent/COMP1/ |         |         |         |         |
|----------------------------|---------|---------|---------|---------|
| Test Site                  |         |         |         |         |
| Tester                     |         |         |         |         |
| Test Number                |         |         |         |         |
| Max Limit                  | 199     |         | uA      |         |
| Min Limit                  | 88      |         | uA      |         |
| n/cm^2                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                         | 88.000  | 88.000  | 88.000  | 88.000  |
| Min                        | 126.151 | 131.202 | 124.624 | 129.871 |
| Average                    | 134.970 | 134.221 | 131.901 | 136.202 |
| Max                        | 149.122 | 137.268 | 137.336 | 142.185 |
| UL                         | 199.000 | 199.000 | 199.000 | 199.000 |

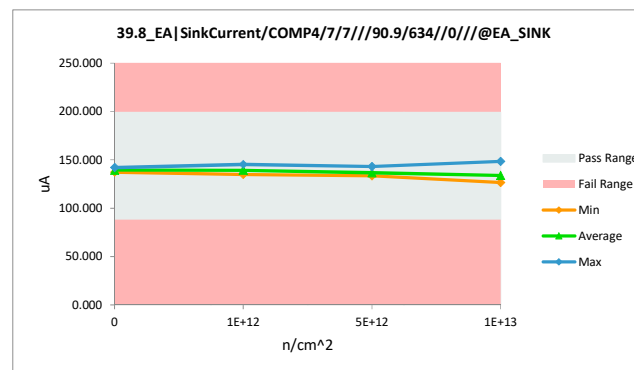


## NDD Report TPS7H4102-SP

| 39.8_EA SinkCurrent/COMP4/7/7///90.9 |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | uA       |                     | uA                 |        |
| Max Limit                            | 200      |                     | 199                |        |
| Min Limit                            | 87       |                     | 88                 |        |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 140.967             | 138.995            | -1.971 |
| 0                                    | 2        | 136.492             | 141.927            | 5.435  |
| 0                                    | 3        | 136.536             | 137.337            | 0.801  |
| 1E+12                                | 30       | 133.995             | 145.346            | 11.352 |
| 1E+12                                | 31       | 135.357             | 134.878            | -0.478 |
| 1E+12                                | 32       | 135.495             | 136.409            | 0.914  |
| 1E+12                                | 33       | 138.917             | 139.747            | 0.831  |
| 5E+12                                | 34       | 133.014             | 134.249            | 1.236  |
| 5E+12                                | 35       | 135.080             | 136.331            | 1.251  |
| 5E+12                                | 36       | 132.572             | 133.389            | 0.817  |
| 5E+12                                | 37       | 132.599             | 142.950            | 10.351 |
| 1E+13                                | 38       | 125.123             | 126.534            | 1.411  |
| 1E+13                                | 39       | 133.546             | 126.603            | -6.943 |
| 1E+13                                | 40       | 133.502             | 148.335            | 14.833 |
| 1E+13                                | 41       | 133.563             | 134.303            | 0.740  |
|                                      | Max      | 140.967             | 148.335            | 14.833 |
|                                      | Average  | 134.450             | 137.156            | 2.705  |
|                                      | Min      | 125.123             | 126.534            | -6.943 |
|                                      | Std Dev  | 3.505               | 6.094              | 5.584  |

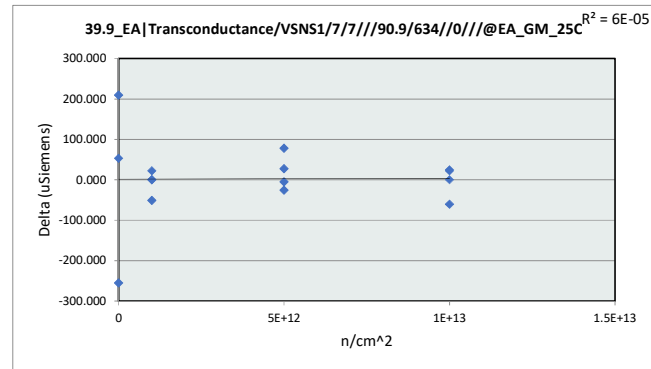


| 39.8_EA SinkCurrent/COMP4/ |         |         |         |         |
|----------------------------|---------|---------|---------|---------|
| Test Site                  |         |         |         |         |
| Tester                     |         |         |         |         |
| Test Number                |         |         |         |         |
| Max Limit                  | 199     |         | uA      |         |
| Min Limit                  | 88      |         | uA      |         |
| n/cm^2                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                         | 88.000  | 88.000  | 88.000  | 88.000  |
| Min                        | 137.337 | 134.879 | 133.389 | 126.534 |
| Average                    | 139.420 | 139.095 | 136.730 | 133.944 |
| Max                        | 141.927 | 145.346 | 142.950 | 148.335 |
| UL                         | 199.000 | 199.000 | 199.000 | 199.000 |

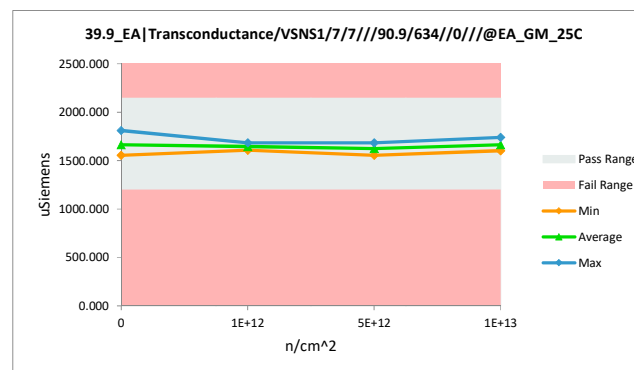


## NDD Report TPS7H4102-SP

| 39.9_EA Transconductance/VSNS1/7/7/ |          |                     |                    |          |
|-------------------------------------|----------|---------------------|--------------------|----------|
| Test Site                           |          |                     |                    |          |
| Tester                              |          |                     |                    |          |
| Test Number                         |          |                     |                    |          |
| Unit                                | uSiemens |                     | uSiemens           |          |
| Max Limit                           | 2191     |                     | 2143               |          |
| Min Limit                           | 1153     |                     | 1201               |          |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta    |
| 0                                   | 1        | 1810.466            | 1555.144           | -255.322 |
| 0                                   | 2        | 1601.336            | 1810.466           | 209.130  |
| 0                                   | 3        | 1575.340            | 1628.204           | 52.864   |
| 1E+12                               | 30       | 1633.686            | 1655.989           | 22.303   |
| 1E+12                               | 31       | 1684.739            | 1633.686           | -51.053  |
| 1E+12                               | 32       | 1684.739            | 1684.739           | 0.000    |
| 1E+12                               | 33       | 1606.639            | 1606.639           | 0.000    |
| 5E+12                               | 34       | 1628.204            | 1655.989           | 27.785   |
| 5E+12                               | 35       | 1580.472            | 1555.144           | -25.328  |
| 5E+12                               | 36       | 1606.639            | 1601.336           | -5.302   |
| 5E+12                               | 37       | 1606.639            | 1684.739           | 78.100   |
| 1E+13                               | 38       | 1714.505            | 1739.085           | 24.581   |
| 1E+13                               | 39       | 1661.660            | 1601.336           | -60.324  |
| 1E+13                               | 40       | 1661.660            | 1661.660           | 0.000    |
| 1E+13                               | 41       | 1633.686            | 1655.989           | 22.303   |
|                                     | Max      | 1810.466            | 1810.466           | 209.130  |
|                                     | Average  | 1646.027            | 1648.676           | 2.649    |
|                                     | Min      | 1575.340            | 1555.144           | -255.322 |
|                                     | Std Dev  | 60.818              | 66.370             | 95.244   |

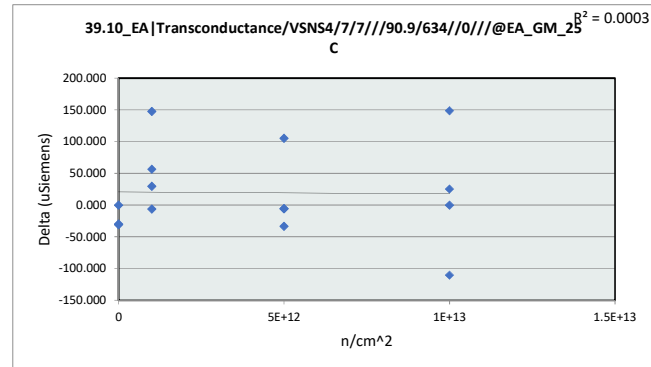


| 39.9_EA Transconductance/VSNS1/7/7/ |          |          |          |          |
|-------------------------------------|----------|----------|----------|----------|
| Test Site                           |          |          |          |          |
| Tester                              |          |          |          |          |
| Test Number                         |          |          |          |          |
| Max Limit                           | 2143     |          | uSiemens |          |
| Min Limit                           | 1201     |          | uSiemens |          |
| n/cm^2                              | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                  | 1201.000 | 1201.000 | 1201.000 | 1201.000 |
| Min                                 | 1555.144 | 1606.639 | 1555.144 | 1601.336 |
| Average                             | 1664.605 | 1645.263 | 1624.302 | 1664.518 |
| Max                                 | 1810.466 | 1684.739 | 1684.739 | 1739.085 |
| UL                                  | 2143.000 | 2143.000 | 2143.000 | 2143.000 |

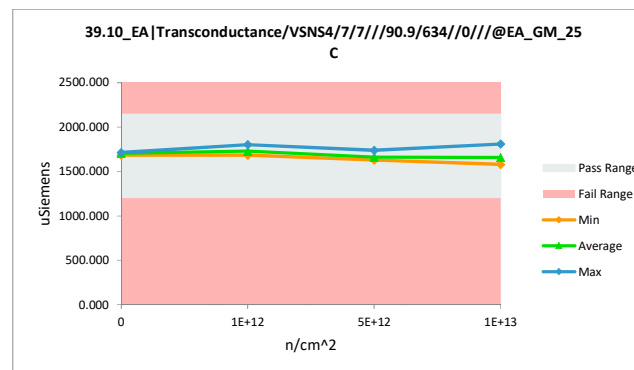


## NDD Report TPS7H4102-SP

| 39.10_EA Transconductance/VSNS4/7/7/ |          |                     |                    |          |
|--------------------------------------|----------|---------------------|--------------------|----------|
| Test Site                            |          |                     |                    |          |
| Tester                               |          |                     |                    |          |
| Test Number                          |          |                     |                    |          |
| Unit                                 | uSiemens |                     | uSiemens           |          |
| Max Limit                            | 2191     |                     | 2143               |          |
| Min Limit                            | 1153     |                     | 1201               |          |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta    |
| 0                                    | 1        | 1745.341            | 1714.505           | -30.836  |
| 0                                    | 2        | 1714.505            | 1714.505           | 0.000    |
| 0                                    | 3        | 1714.505            | 1684.739           | -29.766  |
| 1E+12                                | 30       | 1655.989            | 1803.735           | 147.746  |
| 1E+12                                | 31       | 1628.204            | 1684.739           | 56.535   |
| 1E+12                                | 32       | 1684.739            | 1714.505           | 29.766   |
| 1E+12                                | 33       | 1720.584            | 1714.505           | -6.080   |
| 5E+12                                | 34       | 1633.686            | 1628.204           | -5.482   |
| 5E+12                                | 35       | 1661.660            | 1655.989           | -5.671   |
| 5E+12                                | 36       | 1661.660            | 1628.204           | -33.456  |
| 5E+12                                | 37       | 1633.686            | 1739.085           | 105.399  |
| 1E+13                                | 38       | 1555.144            | 1580.472           | 25.328   |
| 1E+13                                | 39       | 1690.609            | 1580.472           | -110.137 |
| 1E+13                                | 40       | 1661.660            | 1810.466           | 148.805  |
| 1E+13                                | 41       | 1661.660            | 1661.660           | 0.000    |
|                                      | Max      | 1745.341            | 1810.466           | 148.805  |
|                                      | Average  | 1668.242            | 1687.719           | 19.477   |
|                                      | Min      | 1555.144            | 1580.472           | -110.137 |
|                                      | Std Dev  | 46.937              | 68.570             | 70.356   |

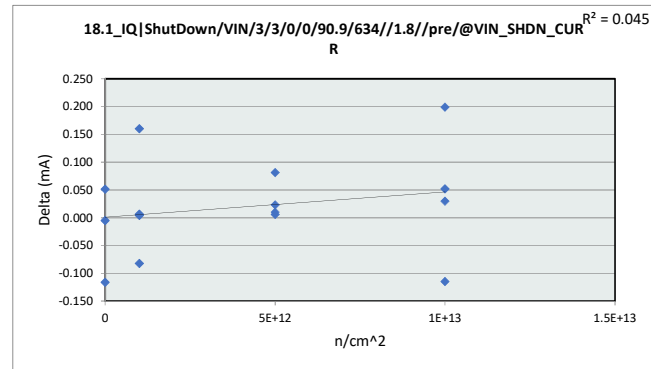


| 39.10_EA Transconductance/V |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|
| Test Site                   |          |          |          |          |
| Tester                      |          |          |          |          |
| Test Number                 |          |          |          |          |
| Max Limit                   | 2143     |          | uSiemens |          |
| Min Limit                   | 1201     |          | uSiemens |          |
| n/cm^2                      | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                          | 1201.000 | 1201.000 | 1201.000 | 1201.000 |
| Min                         | 1684.739 | 1684.739 | 1628.204 | 1580.472 |
| Average                     | 1704.583 | 1729.371 | 1662.871 | 1658.267 |
| Max                         | 1714.505 | 1803.736 | 1739.085 | 1810.466 |
| UL                          | 2143.000 | 2143.000 | 2143.000 | 2143.000 |

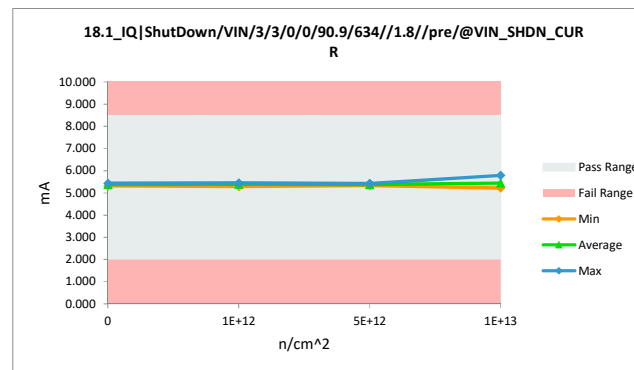


## NDD Report TPS7H4102-SP

| 18.1_IQ ShutDown/VIN/3/3/0/0/90.9/6 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mA       |                     | mA                 |        |
| Max Limit                           | 8.5      |                     | 8.482              |        |
| Min Limit                           | 0.7036   |                     | 2                  |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 5.434               | 5.318              | -0.116 |
| 0                                   | 2        | 5.384               | 5.436              | 0.051  |
| 0                                   | 3        | 5.384               | 5.379              | -0.005 |
| 1E+12                               | 30       | 5.290               | 5.450              | 0.160  |
| 1E+12                               | 31       | 5.375               | 5.293              | -0.082 |
| 1E+12                               | 32       | 5.377               | 5.381              | 0.004  |
| 1E+12                               | 33       | 5.427               | 5.433              | 0.006  |
| 5E+12                               | 34       | 5.410               | 5.420              | 0.010  |
| 5E+12                               | 35       | 5.306               | 5.329              | 0.023  |
| 5E+12                               | 36       | 5.342               | 5.348              | 0.006  |
| 5E+12                               | 37       | 5.341               | 5.422              | 0.081  |
| 1E+13                               | 38       | 5.589               | 5.788              | 0.199  |
| 1E+13                               | 39       | 5.336               | 5.221              | -0.115 |
| 1E+13                               | 40       | 5.336               | 5.388              | 0.052  |
| 1E+13                               | 41       | 5.336               | 5.366              | 0.030  |
|                                     | Max      | 5.589               | 5.788              | 0.199  |
|                                     | Average  | 5.378               | 5.398              | 0.020  |
|                                     | Min      | 5.290               | 5.221              | -0.116 |
|                                     | Std Dev  | 0.072               | 0.124              | 0.087  |



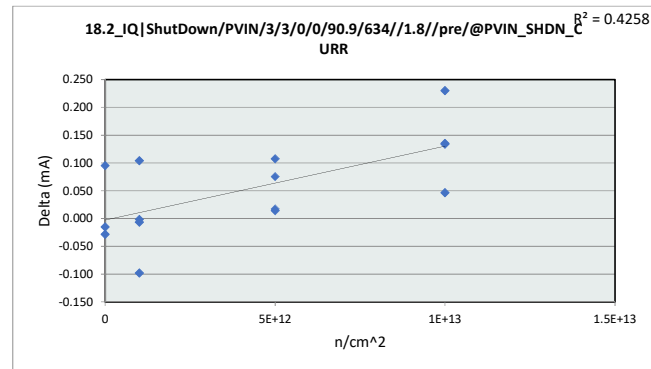
| 18.1_IQ ShutDown/VIN/3/3/ |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 8.482 |       | mA    |       |
| Min Limit                 | 2     |       | mA    |       |
| n/cm^2                    | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 2.000 | 2.000 | 2.000 | 2.000 |
| Min                       | 5.318 | 5.293 | 5.329 | 5.221 |
| Average                   | 5.378 | 5.389 | 5.380 | 5.441 |
| Max                       | 5.436 | 5.450 | 5.422 | 5.788 |
| UL                        | 8.482 | 8.482 | 8.482 | 8.482 |



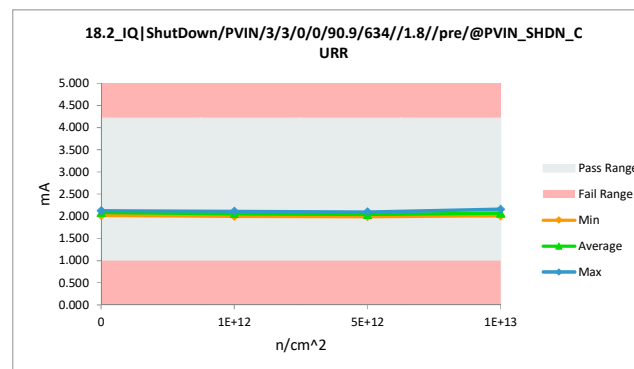


## NDD Report TPS7H4102-SP

| 18.2_IQ ShutDown/PVIN/3/3/0/0/90.9/ |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mA       |                     | mA                 |        |
| Max Limit                           | 4.3      |                     | 4.216              |        |
| Min Limit                           | 0.3568   |                     | 1                  |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 2.133               | 2.105              | -0.028 |
| 0                                   | 2        | 2.029               | 2.125              | 0.095  |
| 0                                   | 3        | 2.031               | 2.016              | -0.015 |
| 1E+12                               | 30       | 2.117               | 2.019              | -0.098 |
| 1E+12                               | 31       | 2.009               | 2.113              | 0.104  |
| 1E+12                               | 32       | 2.009               | 2.003              | -0.006 |
| 1E+12                               | 33       | 2.104               | 2.103              | -0.001 |
| 5E+12                               | 34       | 1.977               | 1.991              | 0.014  |
| 5E+12                               | 35       | 1.987               | 2.094              | 0.107  |
| 5E+12                               | 36       | 1.993               | 2.010              | 0.017  |
| 5E+12                               | 37       | 1.993               | 2.069              | 0.076  |
| 1E+13                               | 38       | 2.112               | 2.159              | 0.047  |
| 1E+13                               | 39       | 1.878               | 2.109              | 0.230  |
| 1E+13                               | 40       | 1.877               | 2.013              | 0.135  |
| 1E+13                               | 41       | 1.877               | 2.011              | 0.134  |
|                                     | Max      | 2.133               | 2.159              | 0.230  |
|                                     | Average  | 2.009               | 2.063              | 0.054  |
|                                     | Min      | 1.877               | 1.991              | -0.098 |
|                                     | Std Dev  | 0.085               | 0.055              | 0.083  |

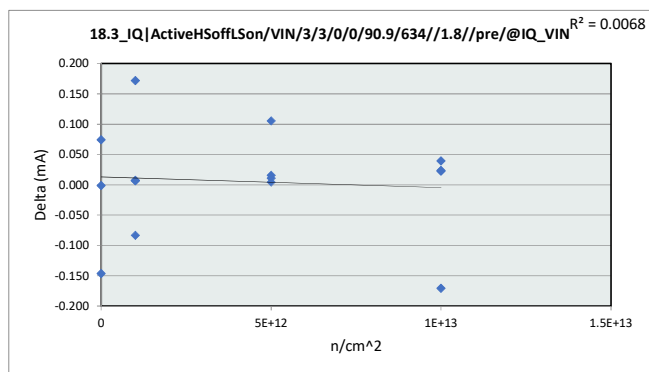


| 18.2_IQ ShutDown/PVIN/3/3/ |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 4.216 |       | mA    |       |
| Min Limit                  | 1     |       | mA    |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 1.000 | 1.000 | 1.000 | 1.000 |
| Min                        | 2.016 | 2.003 | 1.991 | 2.011 |
| Average                    | 2.082 | 2.060 | 2.041 | 2.073 |
| Max                        | 2.125 | 2.113 | 2.094 | 2.159 |
| UL                         | 4.216 | 4.216 | 4.216 | 4.216 |

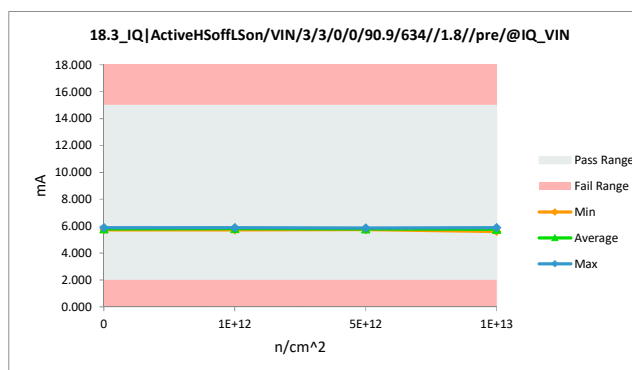


**NDD Report**  
**TPS7H4102-SP**

|             |          | 18.3_IQ ActiveHsoffLson/VIN/3/3/0/0/5 |                    |        |
|-------------|----------|---------------------------------------|--------------------|--------|
| Test Site   |          |                                       |                    |        |
| Tester      |          |                                       |                    |        |
| Test Number |          |                                       |                    |        |
| Unit        |          | mA                                    | mA                 |        |
| Max Limit   |          | 15                                    | 14.988             |        |
| Min Limit   |          | -0.5976                               | 2                  |        |
| n/cm^2      | Serial # | Post_NDD_TPS7H4102-                   | Pre_NDD_TPS7H4102- | Delta  |
| 0           | 1        | 5.880                                 | 5.733              | -0.147 |
| 0           | 2        | 5.808                                 | 5.882              | 0.074  |
| 0           | 3        | 5.805                                 | 5.804              | -0.001 |
| 1E+12       | 30       | 5.714                                 | 5.885              | 0.172  |
| 1E+12       | 31       | 5.799                                 | 5.716              | -0.083 |
| 1E+12       | 32       | 5.798                                 | 5.805              | 0.007  |
| 1E+12       | 33       | 5.879                                 | 5.887              | 0.007  |
| 5E+12       | 34       | 5.856                                 | 5.867              | 0.011  |
| 5E+12       | 35       | 5.736                                 | 5.752              | 0.016  |
| 5E+12       | 36       | 5.751                                 | 5.755              | 0.005  |
| 5E+12       | 37       | 5.751                                 | 5.856              | 0.105  |
| 1E+13       | 38       | 5.874                                 | 5.898              | 0.024  |
| 1E+13       | 39       | 5.785                                 | 5.614              | -0.171 |
| 1E+13       | 40       | 5.787                                 | 5.826              | 0.040  |
| 1E+13       | 41       | 5.786                                 | 5.809              | 0.023  |
|             | Max      | 5.880                                 | 5.898              | 0.172  |
|             | Average  | 5.801                                 | 5.806              | 0.005  |
|             | Min      | 5.714                                 | 5.614              | -0.171 |
|             | Std Dev  | 0.052                                 | 0.080              | 0.087  |

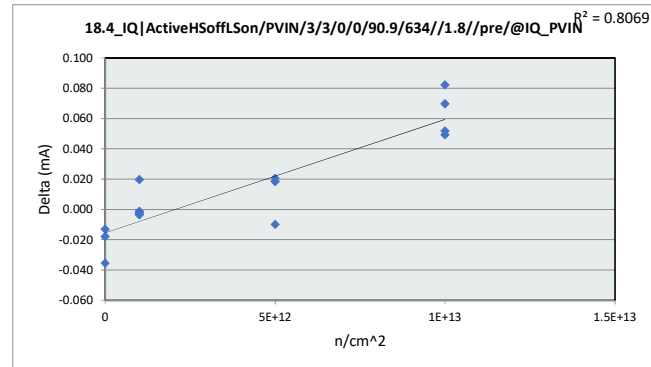


|             |        | 18.3_IQ ActiveHsoffLson/VIN |        |        |  |
|-------------|--------|-----------------------------|--------|--------|--|
| Test Site   |        |                             |        |        |  |
| Tester      |        |                             |        |        |  |
| Test Number |        |                             |        |        |  |
| Max Limit   | 14.988 | mA                          |        |        |  |
| Min Limit   | 2      | mA                          |        |        |  |
| n/cm^2      | 0      | 1E+12                       | 5E+12  | 1E+13  |  |
| LL          | 2.000  | 2.000                       | 2.000  | 2.000  |  |
| Min         | 5.733  | 5.716                       | 5.752  | 5.614  |  |
| Average     | 5.807  | 5.823                       | 5.808  | 5.787  |  |
| Max         | 5.882  | 5.887                       | 5.867  | 5.898  |  |
| UL          | 14.988 | 14.988                      | 14.988 | 14.988 |  |

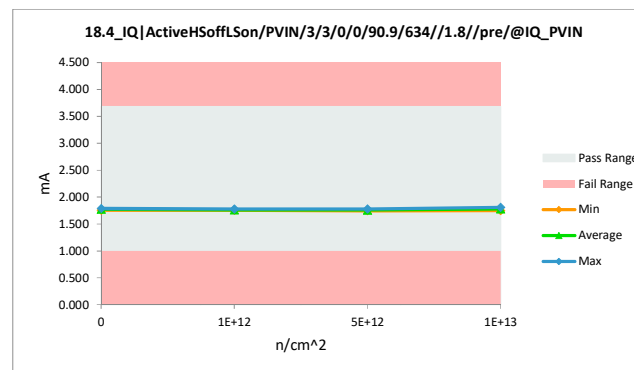


## NDD Report TPS7H4102-SP

| 18.4_IQ ActiveHSoffLSON/PVIN/3/3/0/0 |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | mA       |                     | mA                 |        |
| Max Limit                            | 3.7      |                     | 3.682              |        |
| Min Limit                            | 0.4636   |                     | 1                  |        |
| n/cm <sup>2</sup>                    | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 1.790               | 1.755              | -0.035 |
| 0                                    | 2        | 1.801               | 1.783              | -0.018 |
| 0                                    | 3        | 1.802               | 1.789              | -0.013 |
| 1E+12                                | 30       | 1.758               | 1.778              | 0.020  |
| 1E+12                                | 31       | 1.757               | 1.755              | -0.002 |
| 1E+12                                | 32       | 1.757               | 1.754              | -0.004 |
| 1E+12                                | 33       | 1.766               | 1.765              | -0.001 |
| 5E+12                                | 34       | 1.727               | 1.746              | 0.018  |
| 5E+12                                | 35       | 1.742               | 1.761              | 0.019  |
| 5E+12                                | 36       | 1.760               | 1.781              | 0.021  |
| 5E+12                                | 37       | 1.760               | 1.750              | -0.010 |
| 1E+13                                | 38       | 1.759               | 1.811              | 0.052  |
| 1E+13                                | 39       | 1.701               | 1.770              | 0.070  |
| 1E+13                                | 40       | 1.701               | 1.783              | 0.082  |
| 1E+13                                | 41       | 1.701               | 1.751              | 0.049  |
|                                      | Max      | 1.802               | 1.811              | 0.082  |
|                                      | Average  | 1.752               | 1.769              | 0.016  |
|                                      | Min      | 1.701               | 1.746              | -0.035 |
|                                      | Std Dev  | 0.033               | 0.018              | 0.034  |

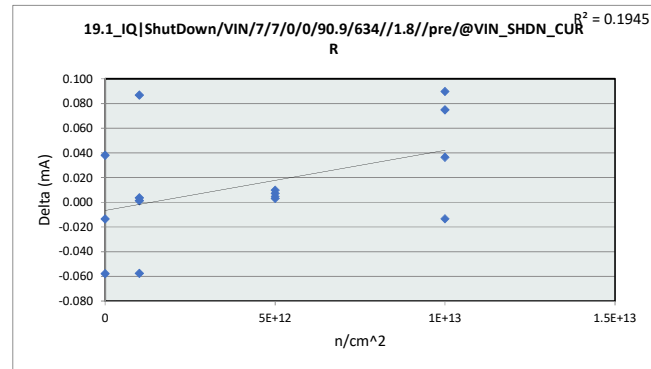


| 18.4_IQ ActiveHSoffLSON/PVIN/3/3/0/0/90.9/634//1.8//pre/@IQ_PVIN |       |       |       |       |
|------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                        |       |       |       |       |
| Tester                                                           |       |       |       |       |
| Test Number                                                      |       |       |       |       |
| Max Limit                                                        | 3.682 |       | mA    |       |
| Min Limit                                                        | 1     |       | mA    |       |
| n/cm <sup>2</sup>                                                | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                               | 1.000 | 1.000 | 1.000 | 1.000 |
| Min                                                              | 1.755 | 1.754 | 1.746 | 1.751 |
| Average                                                          | 1.775 | 1.763 | 1.759 | 1.779 |
| Max                                                              | 1.789 | 1.778 | 1.781 | 1.811 |
| UL                                                               | 3.682 | 3.682 | 3.682 | 3.682 |

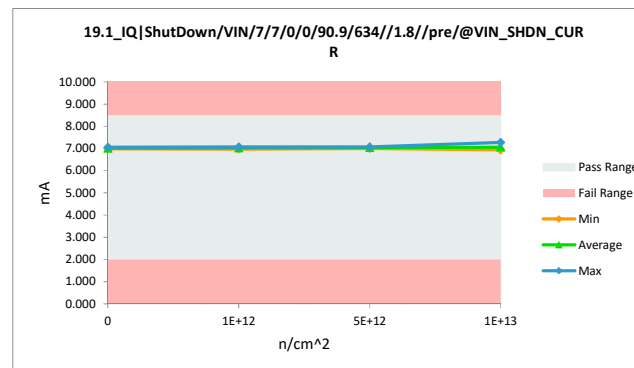


## NDD Report TPS7H4102-SP

| 19.1_IQ ShutDown/VIN/7/7/0/0/90.9/6 |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mA       |                     | mA                 |        |
| Max Limit                           | 8.5      |                     | 8.482              |        |
| Min Limit                           | 0.7036   |                     | 2                  |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 7.055               | 6.997              | -0.058 |
| 0                                   | 2        | 7.018               | 7.056              | 0.038  |
| 0                                   | 3        | 7.018               | 7.004              | -0.014 |
| 1E+12                               | 30       | 6.981               | 7.068              | 0.087  |
| 1E+12                               | 31       | 7.036               | 6.978              | -0.058 |
| 1E+12                               | 32       | 7.036               | 7.037              | 0.001  |
| 1E+12                               | 33       | 7.035               | 7.039              | 0.004  |
| 5E+12                               | 34       | 7.068               | 7.075              | 0.007  |
| 5E+12                               | 35       | 6.994               | 7.004              | 0.010  |
| 5E+12                               | 36       | 7.030               | 7.035              | 0.005  |
| 5E+12                               | 37       | 7.034               | 7.037              | 0.003  |
| 1E+13                               | 38       | 7.200               | 7.275              | 0.075  |
| 1E+13                               | 39       | 6.955               | 6.942              | -0.013 |
| 1E+13                               | 40       | 6.955               | 7.044              | 0.090  |
| 1E+13                               | 41       | 6.955               | 6.992              | 0.036  |
|                                     | Max      | 7.200               | 7.275              | 0.090  |
|                                     | Average  | 7.025               | 7.039              | 0.014  |
|                                     | Min      | 6.955               | 6.942              | -0.058 |
|                                     | Std Dev  | 0.061               | 0.075              | 0.045  |

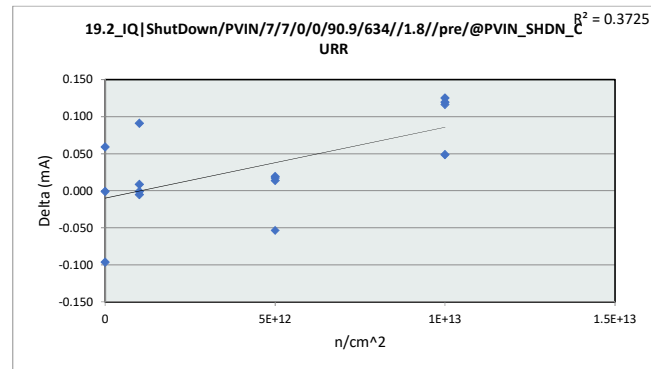


| 19.1_IQ ShutDown/VIN/7/7/ |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 8.482 |       | mA    |       |
| Min Limit                 | 2     |       | mA    |       |
| n/cm^2                    | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 2.000 | 2.000 | 2.000 | 2.000 |
| Min                       | 6.997 | 6.978 | 7.004 | 6.942 |
| Average                   | 7.019 | 7.031 | 7.038 | 7.063 |
| Max                       | 7.056 | 7.068 | 7.075 | 7.275 |
| UL                        | 8.482 | 8.482 | 8.482 | 8.482 |

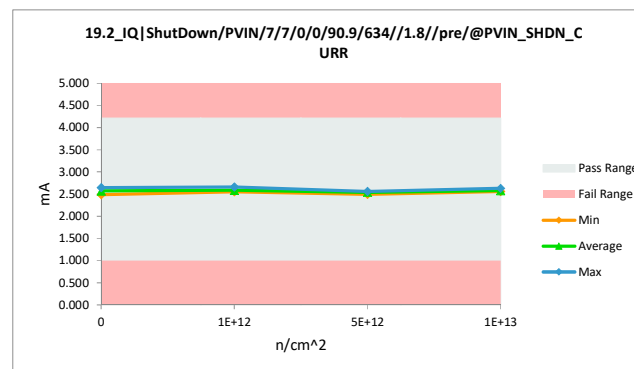


## NDD Report TPS7H4102-SP

| 19.2_IQ ShutDown/PVIN/7/7/0/0/90.9/ |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mA       |                     | mA                 |        |
| Max Limit                           | 4.3      |                     | 4.216              |        |
| Min Limit                           | 0.3568   |                     | 1                  |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 2.587               | 2.646              | 0.059  |
| 0                                   | 2        | 2.584               | 2.583              | -0.001 |
| 0                                   | 3        | 2.584               | 2.488              | -0.097 |
| 1E+12                               | 30       | 2.570               | 2.661              | 0.091  |
| 1E+12                               | 31       | 2.557               | 2.566              | 0.009  |
| 1E+12                               | 32       | 2.559               | 2.553              | -0.005 |
| 1E+12                               | 33       | 2.569               | 2.568              | -0.001 |
| 5E+12                               | 34       | 2.537               | 2.557              | 0.019  |
| 5E+12                               | 35       | 2.542               | 2.556              | 0.014  |
| 5E+12                               | 36       | 2.545               | 2.562              | 0.017  |
| 5E+12                               | 37       | 2.549               | 2.496              | -0.053 |
| 1E+13                               | 38       | 2.580               | 2.629              | 0.049  |
| 1E+13                               | 39       | 2.441               | 2.561              | 0.119  |
| 1E+13                               | 40       | 2.443               | 2.559              | 0.116  |
| 1E+13                               | 41       | 2.442               | 2.567              | 0.125  |
|                                     | Max      | 2.587               | 2.661              | 0.125  |
|                                     | Average  | 2.539               | 2.570              | 0.031  |
|                                     | Min      | 2.441               | 2.488              | -0.097 |
|                                     | Std Dev  | 0.053               | 0.047              | 0.064  |

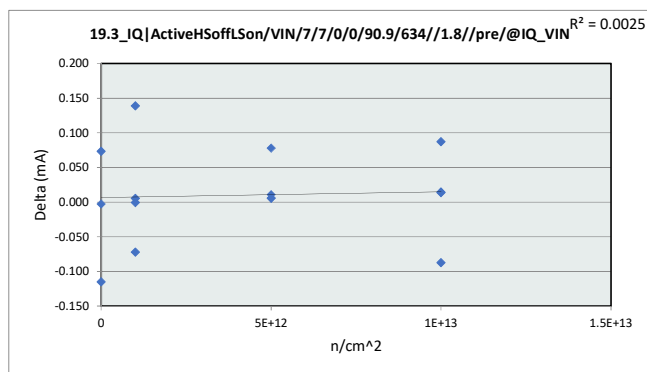


| 19.2_IQ ShutDown/PVIN/7/7/ |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 4.216 |       | mA    |       |
| Min Limit                  | 1     |       | mA    |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 1.000 | 1.000 | 1.000 | 1.000 |
| Min                        | 2.488 | 2.553 | 2.496 | 2.559 |
| Average                    | 2.572 | 2.587 | 2.542 | 2.579 |
| Max                        | 2.646 | 2.661 | 2.562 | 2.629 |
| UL                         | 4.216 | 4.216 | 4.216 | 4.216 |

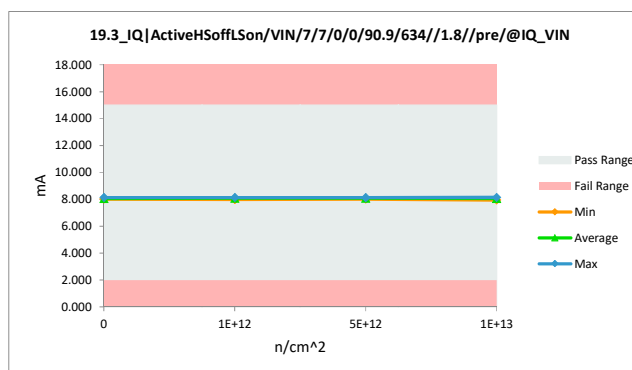


**NDD Report**  
**TPS7H4102-SP**

|             |          | 19.3_IQ ActiveHsoffLson/VIN/7/7/0/0/5 |                    |        |
|-------------|----------|---------------------------------------|--------------------|--------|
| Test Site   |          |                                       |                    |        |
| Tester      |          |                                       |                    |        |
| Test Number |          |                                       |                    |        |
| Unit        |          | mA                                    | mA                 |        |
| Max Limit   |          | 15                                    | 14.988             |        |
| Min Limit   |          | -0.5976                               | 2                  |        |
| n/cm^2      | Serial # | Post_NDD_TPS7H4102-                   | Pre_NDD_TPS7H4102- | Delta  |
| 0           | 1        | 8.129                                 | 8.014              | -0.115 |
| 0           | 2        | 8.056                                 | 8.129              | 0.073  |
| 0           | 3        | 8.057                                 | 8.055              | -0.003 |
| 1E+12       | 30       | 7.990                                 | 8.129              | 0.139  |
| 1E+12       | 31       | 8.062                                 | 7.990              | -0.072 |
| 1E+12       | 32       | 8.066                                 | 8.066              | -0.001 |
| 1E+12       | 33       | 8.110                                 | 8.115              | 0.005  |
| 5E+12       | 34       | 8.117                                 | 8.123              | 0.005  |
| 5E+12       | 35       | 8.007                                 | 8.018              | 0.011  |
| 5E+12       | 36       | 8.027                                 | 8.033              | 0.006  |
| 5E+12       | 37       | 8.027                                 | 8.105              | 0.078  |
| 1E+13       | 38       | 8.126                                 | 8.139              | 0.014  |
| 1E+13       | 39       | 8.035                                 | 7.948              | -0.087 |
| 1E+13       | 40       | 8.034                                 | 8.121              | 0.087  |
| 1E+13       | 41       | 8.035                                 | 8.049              | 0.015  |
|             | Max      | 8.129                                 | 8.139              | 0.139  |
|             | Average  | 8.059                                 | 8.069              | 0.010  |
|             | Min      | 7.990                                 | 7.948              | -0.115 |
|             | Std Dev  | 0.044                                 | 0.060              | 0.067  |

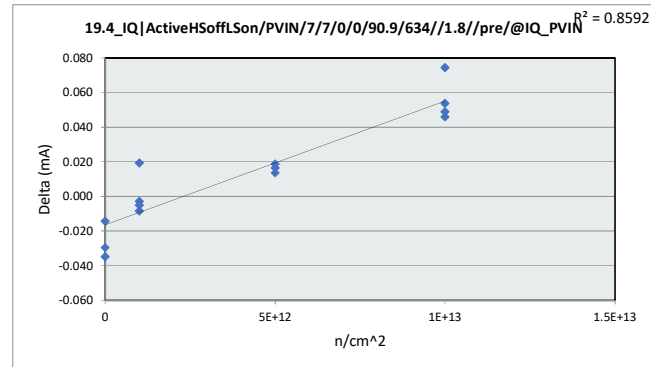


|             |        | 19.3_IQ ActiveHsoffLson/VIN |        |        |  |
|-------------|--------|-----------------------------|--------|--------|--|
| Test Site   |        |                             |        |        |  |
| Tester      |        |                             |        |        |  |
| Test Number |        |                             |        |        |  |
| Max Limit   | 14.988 | mA                          |        |        |  |
| Min Limit   | 2      | mA                          |        |        |  |
| n/cm^2      | 0      | 1E+12                       | 5E+12  | 1E+13  |  |
| LL          | 2.000  | 2.000                       | 2.000  | 2.000  |  |
| Min         | 8.014  | 7.990                       | 8.018  | 7.948  |  |
| Average     | 8.066  | 8.075                       | 8.070  | 8.065  |  |
| Max         | 8.129  | 8.129                       | 8.123  | 8.140  |  |
| UL          | 14.988 | 14.988                      | 14.988 | 14.988 |  |

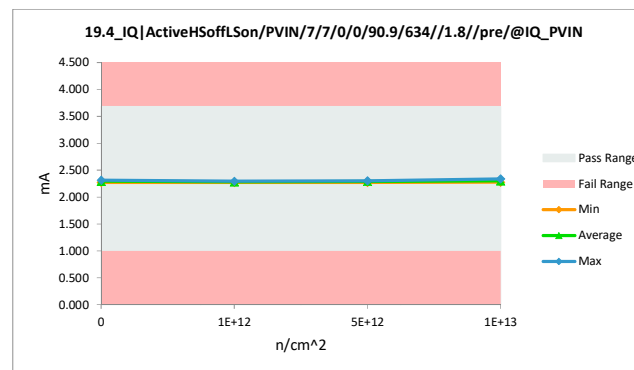


## NDD Report TPS7H4102-SP

| 19.4_IQ ActiveHSoffLson/PVIN/7/7/0/0 |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | mA       |                     | mA                 |        |
| Max Limit                            | 3.7      |                     | 3.682              |        |
| Min Limit                            | 0.4636   |                     | 1                  |        |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 2.306               | 2.272              | -0.035 |
| 0                                    | 2        | 2.328               | 2.298              | -0.030 |
| 0                                    | 3        | 2.329               | 2.314              | -0.014 |
| 1E+12                                | 30       | 2.276               | 2.295              | 0.019  |
| 1E+12                                | 31       | 2.280               | 2.271              | -0.009 |
| 1E+12                                | 32       | 2.280               | 2.275              | -0.005 |
| 1E+12                                | 33       | 2.293               | 2.290              | -0.003 |
| 5E+12                                | 34       | 2.257               | 2.274              | 0.017  |
| 5E+12                                | 35       | 2.266               | 2.282              | 0.016  |
| 5E+12                                | 36       | 2.284               | 2.303              | 0.019  |
| 5E+12                                | 37       | 2.285               | 2.298              | 0.013  |
| 1E+13                                | 38       | 2.289               | 2.338              | 0.049  |
| 1E+13                                | 39       | 2.231               | 2.285              | 0.054  |
| 1E+13                                | 40       | 2.230               | 2.305              | 0.074  |
| 1E+13                                | 41       | 2.232               | 2.278              | 0.046  |
|                                      | Max      | 2.329               | 2.338              | 0.074  |
|                                      | Average  | 2.278               | 2.292              | 0.014  |
|                                      | Min      | 2.230               | 2.271              | -0.035 |
|                                      | Std Dev  | 0.031               | 0.019              | 0.031  |

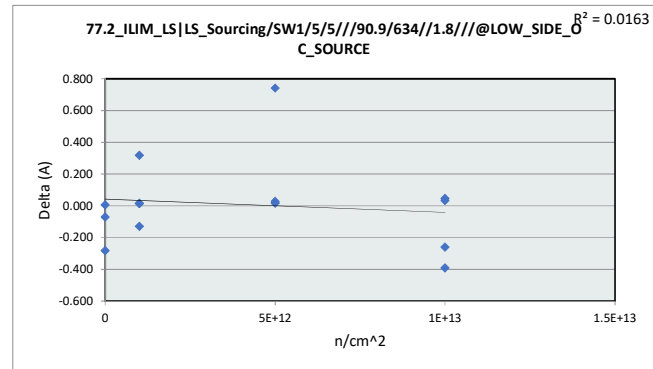


| 19.4_IQ ActiveHSoffLson/PVIN/7/7/0/0/90.9/634//1.8//pre/@IQ_PVIN |       |       |       |       |
|------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                        |       |       |       |       |
| Tester                                                           |       |       |       |       |
| Test Number                                                      |       |       |       |       |
| Max Limit                                                        | 3.682 |       | mA    |       |
| Min Limit                                                        | 1     |       | mA    |       |
| n/cm^2                                                           | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                               | 1.000 | 1.000 | 1.000 | 1.000 |
| Min                                                              | 2.272 | 2.271 | 2.274 | 2.278 |
| Average                                                          | 2.295 | 2.283 | 2.289 | 2.302 |
| Max                                                              | 2.314 | 2.295 | 2.303 | 2.338 |
| UL                                                               | 3.682 | 3.682 | 3.682 | 3.682 |

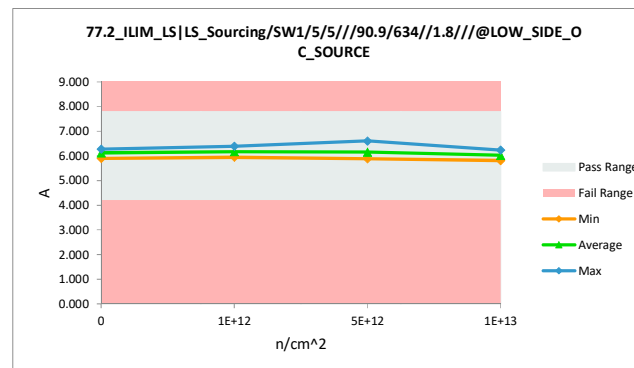


## NDD Report TPS7H4102-SP

| 77.2_ILIM_LS LS_Sourcing/SW1/5/5///90.9/634//1.8///@LOW_SIDE_O |          |                     |                    |        |
|----------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                      |          |                     |                    |        |
| Tester                                                         |          |                     |                    |        |
| Test Number                                                    |          |                     |                    |        |
| Unit                                                           | A        | A                   |                    |        |
| Max Limit                                                      | 7.8      | 7.792               |                    |        |
| Min Limit                                                      | 4.2      | 4.208               |                    |        |
| n/cm^2                                                         | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                              | 1        | 6.183               | 5.902              | -0.282 |
| 0                                                              | 2        | 6.261               | 6.189              | -0.072 |
| 0                                                              | 3        | 6.268               | 6.274              | 0.006  |
| 1E+12                                                          | 30       | 5.938               | 6.255              | 0.317  |
| 1E+12                                                          | 31       | 6.076               | 5.946              | -0.130 |
| 1E+12                                                          | 32       | 6.076               | 6.092              | 0.016  |
| 1E+12                                                          | 33       | 6.378               | 6.391              | 0.014  |
| 5E+12                                                          | 34       | 6.128               | 6.156              | 0.028  |
| 5E+12                                                          | 35       | 5.946               | 5.961              | 0.015  |
| 5E+12                                                          | 36       | 5.863               | 5.886              | 0.023  |
| 5E+12                                                          | 37       | 5.869               | 6.609              | 0.741  |
| 1E+13                                                          | 38       | 6.053               | 6.099              | 0.046  |
| 1E+13                                                          | 39       | 6.206               | 5.814              | -0.392 |
| 1E+13                                                          | 40       | 6.206               | 5.946              | -0.260 |
| 1E+13                                                          | 41       | 6.206               | 6.239              | 0.033  |
|                                                                | Max      | 6.378               | 6.609              | 0.741  |
|                                                                | Average  | 6.110               | 6.117              | 0.007  |
|                                                                | Min      | 5.863               | 5.814              | -0.392 |
|                                                                | Std Dev  | 0.154               | 0.217              | 0.264  |



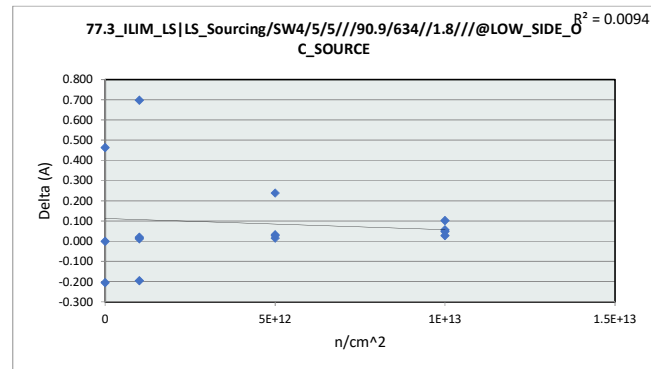
| 77.2_ILIM_LS LS_Sourcing/SW1/5/5///90.9/634//1.8///@LOW_SIDE_O |       |       |       |       |
|----------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                      |       |       |       |       |
| Tester                                                         |       |       |       |       |
| Test Number                                                    |       |       |       |       |
| Max Limit                                                      | 7.792 | A     |       |       |
| Min Limit                                                      | 4.208 | A     |       |       |
| n/cm^2                                                         | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                             | 4.208 | 4.208 | 4.208 | 4.208 |
| Min                                                            | 5.902 | 5.946 | 5.886 | 5.814 |
| Average                                                        | 6.121 | 6.171 | 6.153 | 6.024 |
| Max                                                            | 6.274 | 6.391 | 6.609 | 6.239 |
| UL                                                             | 7.792 | 7.792 | 7.792 | 7.792 |



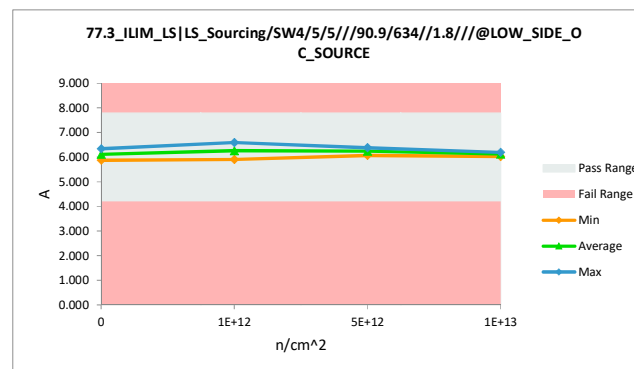


## NDD Report TPS7H4102-SP

| 77.3_ILIM_LS LS_Sourcing/SW4/5/5//90.9/634//1.8//@LOW_SIDE_O |          |                     |                    |        |
|--------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                    |          |                     |                    |        |
| Tester                                                       |          |                     |                    |        |
| Test Number                                                  |          |                     |                    |        |
| Unit                                                         | A        | A                   |                    |        |
| Max Limit                                                    | 7.8      | 7.792               |                    |        |
| Min Limit                                                    | 4.2      | 4.208               |                    |        |
| n/cm <sup>2</sup>                                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                            | 1        | 6.334               | 6.129              | -0.205 |
| 0                                                            | 2        | 5.876               | 6.339              | 0.463  |
| 0                                                            | 3        | 5.876               | 5.876              | -0.001 |
| 1E+12                                                        | 30       | 5.894               | 6.592              | 0.698  |
| 1E+12                                                        | 31       | 6.102               | 5.907              | -0.195 |
| 1E+12                                                        | 32       | 6.105               | 6.116              | 0.011  |
| 1E+12                                                        | 33       | 6.419               | 6.439              | 0.020  |
| 5E+12                                                        | 34       | 6.351               | 6.385              | 0.033  |
| 5E+12                                                        | 35       | 6.212               | 6.239              | 0.027  |
| 5E+12                                                        | 36       | 6.054               | 6.069              | 0.015  |
| 5E+12                                                        | 37       | 6.052               | 6.290              | 0.238  |
| 1E+13                                                        | 38       | 5.979               | 6.026              | 0.047  |
| 1E+13                                                        | 39       | 6.092               | 6.194              | 0.102  |
| 1E+13                                                        | 40       | 6.095               | 6.123              | 0.028  |
| 1E+13                                                        | 41       | 6.097               | 6.154              | 0.057  |
|                                                              | Max      | 6.419               | 6.592              | 0.698  |
|                                                              | Average  | 6.103               | 6.192              | 0.089  |
|                                                              | Min      | 5.876               | 5.876              | -0.205 |
|                                                              | Std Dev  | 0.168               | 0.195              | 0.230  |

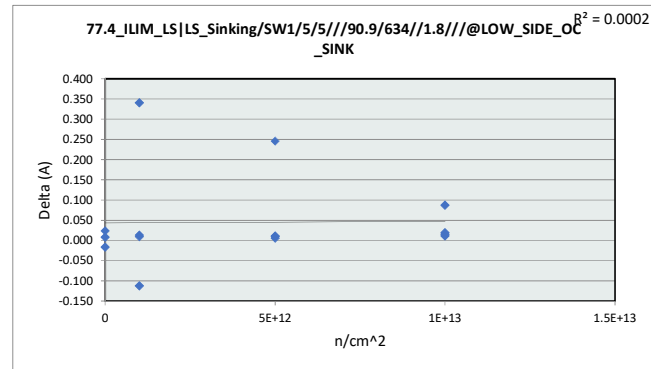


| 77.3_ILIM_LS LS_Sourcing/SW4/5/5//90.9/634//1.8//@LOW_SIDE_O |       |       |       |       |
|--------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                    |       |       |       |       |
| Tester                                                       |       |       |       |       |
| Test Number                                                  |       |       |       |       |
| Max Limit                                                    | 7.792 | A     |       |       |
| Min Limit                                                    | 4.208 | A     |       |       |
| n/cm <sup>2</sup>                                            | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                           | 4.208 | 4.208 | 4.208 | 4.208 |
| Min                                                          | 5.876 | 5.907 | 6.069 | 6.026 |
| Average                                                      | 6.115 | 6.263 | 6.246 | 6.125 |
| Max                                                          | 6.339 | 6.592 | 6.385 | 6.194 |
| UL                                                           | 7.792 | 7.792 | 7.792 | 7.792 |

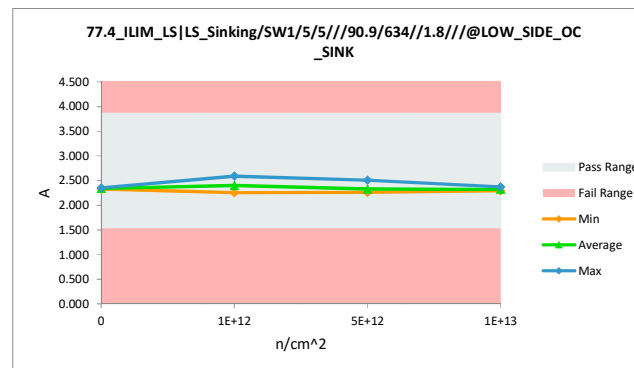


## NDD Report TPS7H4102-SP

| 77.4_ILIM_LS LS_Sinking/SW1/5/5//90.9/634//1.8///@LOW_SIDE_OC |          |                     |                    |        |
|---------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                     |          |                     |                    |        |
| Tester                                                        |          |                     |                    |        |
| Test Number                                                   |          |                     |                    |        |
| Unit                                                          | A        |                     | A                  |        |
| Max Limit                                                     | 3.9      |                     | 3.867              |        |
| Min Limit                                                     | 1.5      |                     | 1.533              |        |
| n/cm^2                                                        | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                             | 1        | 2.322               | 2.345              | 0.024  |
| 0                                                             | 2        | 2.345               | 2.329              | -0.016 |
| 0                                                             | 3        | 2.344               | 2.352              | 0.008  |
| 1E+12                                                         | 30       | 2.248               | 2.589              | 0.341  |
| 1E+12                                                         | 31       | 2.367               | 2.255              | -0.112 |
| 1E+12                                                         | 32       | 2.365               | 2.374              | 0.009  |
| 1E+12                                                         | 33       | 2.375               | 2.388              | 0.013  |
| 5E+12                                                         | 34       | 2.255               | 2.260              | 0.006  |
| 5E+12                                                         | 35       | 2.266               | 2.278              | 0.012  |
| 5E+12                                                         | 36       | 2.262               | 2.272              | 0.010  |
| 5E+12                                                         | 37       | 2.263               | 2.509              | 0.246  |
| 1E+13                                                         | 38       | 2.289               | 2.308              | 0.019  |
| 1E+13                                                         | 39       | 2.287               | 2.299              | 0.012  |
| 1E+13                                                         | 40       | 2.286               | 2.374              | 0.088  |
| 1E+13                                                         | 41       | 2.286               | 2.302              | 0.016  |
|                                                               | Max      | 2.375               | 2.589              | 0.341  |
|                                                               | Average  | 2.304               | 2.349              | 0.045  |
|                                                               | Min      | 2.248               | 2.255              | -0.112 |
|                                                               | Std Dev  | 0.045               | 0.093              | 0.110  |

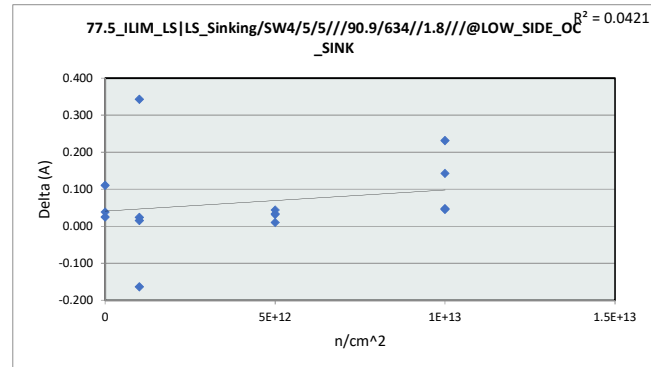


| 77.4_ILIM_LS LS_Sinking/SW |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 3.867 |       | A     |       |
| Min Limit                  | 1.533 |       | A     |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 1.533 | 1.533 | 1.533 | 1.533 |
| Min                        | 2.329 | 2.255 | 2.261 | 2.299 |
| Average                    | 2.342 | 2.402 | 2.330 | 2.321 |
| Max                        | 2.352 | 2.589 | 2.509 | 2.374 |
| UL                         | 3.867 | 3.867 | 3.867 | 3.867 |

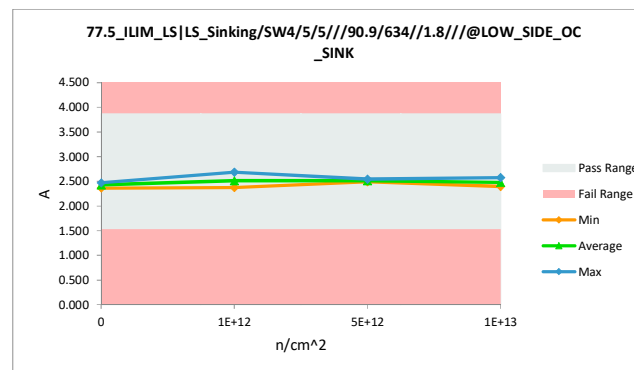


## NDD Report TPS7H4102-SP

| 77.5_ILIM_LS LS_Sinking/SW4/5/5//90.9/634//1.8///@LOW_SIDE_OC_SINK |          |                     |                    |        |
|--------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                          |          |                     |                    |        |
| Tester                                                             |          |                     |                    |        |
| Test Number                                                        |          |                     |                    |        |
| Unit                                                               | A        |                     | A                  |        |
| Max Limit                                                          | 3.9      |                     | 3.867              |        |
| Min Limit                                                          | 1.5      |                     | 1.533              |        |
| n/cm^2                                                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                  | 1        | 2.433               | 2.471              | 0.039  |
| 0                                                                  | 2        | 2.347               | 2.458              | 0.111  |
| 0                                                                  | 3        | 2.339               | 2.364              | 0.025  |
| 1E+12                                                              | 30       | 2.346               | 2.689              | 0.343  |
| 1E+12                                                              | 31       | 2.540               | 2.377              | -0.163 |
| 1E+12                                                              | 32       | 2.541               | 2.556              | 0.015  |
| 1E+12                                                              | 33       | 2.413               | 2.436              | 0.024  |
| 5E+12                                                              | 34       | 2.462               | 2.494              | 0.032  |
| 5E+12                                                              | 35       | 2.474               | 2.508              | 0.034  |
| 5E+12                                                              | 36       | 2.501               | 2.545              | 0.044  |
| 5E+12                                                              | 37       | 2.499               | 2.509              | 0.010  |
| 1E+13                                                              | 38       | 2.386               | 2.432              | 0.046  |
| 1E+13                                                              | 39       | 2.351               | 2.494              | 0.143  |
| 1E+13                                                              | 40       | 2.348               | 2.580              | 0.232  |
| 1E+13                                                              | 41       | 2.350               | 2.398              | 0.048  |
|                                                                    | Max      | 2.541               | 2.689              | 0.343  |
|                                                                    | Average  | 2.422               | 2.487              | 0.065  |
|                                                                    | Min      | 2.339               | 2.364              | -0.163 |
|                                                                    | Std Dev  | 0.076               | 0.085              | 0.113  |

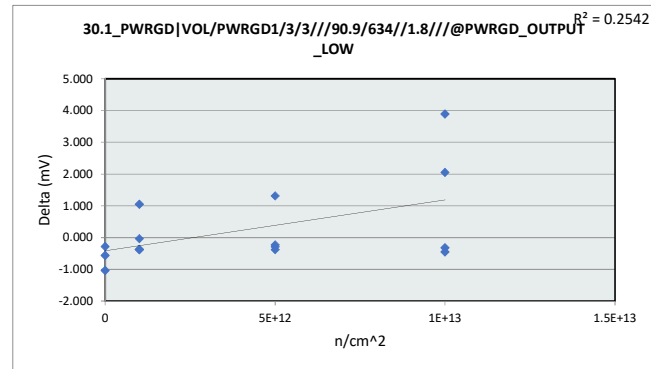


| 77.5_ILIM_LS LS_Sinking/SW4/5/5//90.9/634//1.8///@LOW_SIDE_OC_SINK |       |       |       |       |
|--------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                          |       |       |       |       |
| Tester                                                             |       |       |       |       |
| Test Number                                                        |       |       |       |       |
| Max Limit                                                          | 3.867 |       | A     |       |
| Min Limit                                                          | 1.533 |       | A     |       |
| n/cm^2                                                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                                 | 1.533 | 1.533 | 1.533 | 1.533 |
| Min                                                                | 2.364 | 2.377 | 2.494 | 2.398 |
| Average                                                            | 2.431 | 2.514 | 2.514 | 2.476 |
| Max                                                                | 2.471 | 2.689 | 2.545 | 2.580 |
| UL                                                                 | 3.867 | 3.867 | 3.867 | 3.867 |

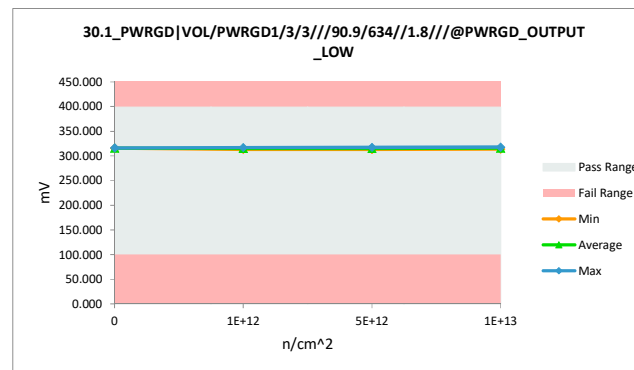


## NDD Report TPS7H4102-SP

| 30.1_PWRGD VOL/PWRGD1/3/3//90.9/ |          |                     |                    |        |
|----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                        |          |                     |                    |        |
| Tester                           |          |                     |                    |        |
| Test Number                      |          |                     |                    |        |
| Unit                             | mV       |                     | mV                 |        |
| Max Limit                        | 400      |                     | 399                |        |
| Min Limit                        | 40.2     |                     | 100                |        |
| n/cm^2                           | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                | 1        | 315.842             | 315.562            | -0.281 |
| 0                                | 2        | 316.608             | 315.574            | -1.034 |
| 0                                | 3        | 316.636             | 316.077            | -0.559 |
| 1E+12                            | 30       | 315.699             | 316.745            | 1.046  |
| 1E+12                            | 31       | 315.521             | 315.490            | -0.031 |
| 1E+12                            | 32       | 315.505             | 315.121            | -0.384 |
| 1E+12                            | 33       | 313.378             | 313.007            | -0.371 |
| 5E+12                            | 34       | 313.403             | 313.178            | -0.224 |
| 5E+12                            | 35       | 314.812             | 314.525            | -0.287 |
| 5E+12                            | 36       | 316.014             | 315.637            | -0.378 |
| 5E+12                            | 37       | 316.024             | 317.339            | 1.315  |
| 1E+13                            | 38       | 315.349             | 314.896            | -0.453 |
| 1E+13                            | 39       | 313.962             | 317.851            | 3.889  |
| 1E+13                            | 40       | 314.015             | 316.071            | 2.056  |
| 1E+13                            | 41       | 314.012             | 313.691            | -0.321 |
|                                  | Max      | 316.636             | 317.851            | 3.889  |
|                                  | Average  | 315.119             | 315.384            | 0.265  |
|                                  | Min      | 313.378             | 313.007            | -1.034 |
|                                  | Std Dev  | 1.109               | 1.396              | 1.294  |

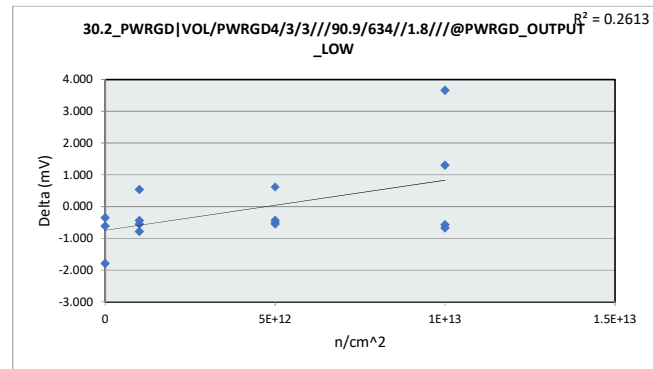


| 30.1_PWRGD VOL/PWRGD1/3/3//90.9/634//1.8///@PWRGD_OUTPUT |         |         |         |         |
|----------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                |         |         |         |         |
| Tester                                                   |         |         |         |         |
| Test Number                                              |         |         |         |         |
| Max Limit                                                | 399     |         | mV      |         |
| Min Limit                                                | 100     |         | mV      |         |
| n/cm^2                                                   | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                       | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                                                      | 315.562 | 313.007 | 313.178 | 313.691 |
| Average                                                  | 315.738 | 315.091 | 315.170 | 315.627 |
| Max                                                      | 316.077 | 316.745 | 317.339 | 317.851 |
| UL                                                       | 399.000 | 399.000 | 399.000 | 399.000 |

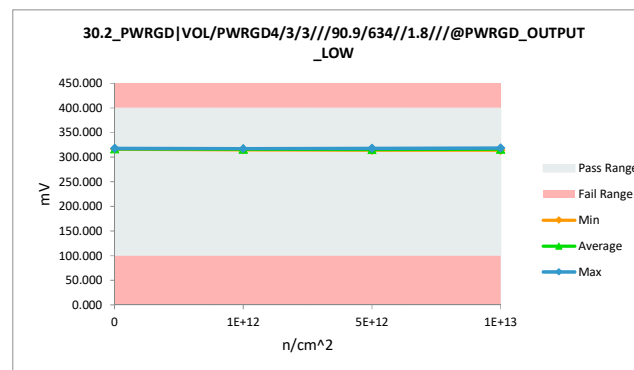


## NDD Report TPS7H4102-SP

| 30.2_PWRGD VOL/PWRGD4/3/3//90.9/ |          |                     |                    |        |
|----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                        |          |                     |                    |        |
| Tester                           |          |                     |                    |        |
| Test Number                      |          |                     |                    |        |
| Unit                             | mV       |                     | mV                 |        |
| Max Limit                        | 400      |                     | 399                |        |
| Min Limit                        | 40.2     |                     | 100                |        |
| n/cm^2                           | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                | 1        | 316.815             | 316.469            | -0.346 |
| 0                                | 2        | 318.258             | 316.469            | -1.788 |
| 0                                | 3        | 318.323             | 317.715            | -0.608 |
| 1E+12                            | 30       | 316.990             | 317.528            | 0.538  |
| 1E+12                            | 31       | 317.112             | 316.669            | -0.443 |
| 1E+12                            | 32       | 317.149             | 316.363            | -0.786 |
| 1E+12                            | 33       | 315.335             | 314.780            | -0.555 |
| 5E+12                            | 34       | 314.439             | 313.943            | -0.495 |
| 5E+12                            | 35       | 315.472             | 315.042            | -0.430 |
| 5E+12                            | 36       | 317.224             | 316.679            | -0.546 |
| 5E+12                            | 37       | 317.187             | 317.800            | 0.613  |
| 1E+13                            | 38       | 316.818             | 316.245            | -0.574 |
| 1E+13                            | 39       | 314.732             | 318.396            | 3.664  |
| 1E+13                            | 40       | 314.807             | 316.107            | 1.300  |
| 1E+13                            | 41       | 314.838             | 314.165            | -0.674 |
|                                  | Max      | 318.323             | 318.396            | 3.664  |
|                                  | Average  | 316.367             | 316.291            | -0.075 |
|                                  | Min      | 314.439             | 313.943            | -1.788 |
|                                  | Std Dev  | 1.304               | 1.324              | 1.254  |

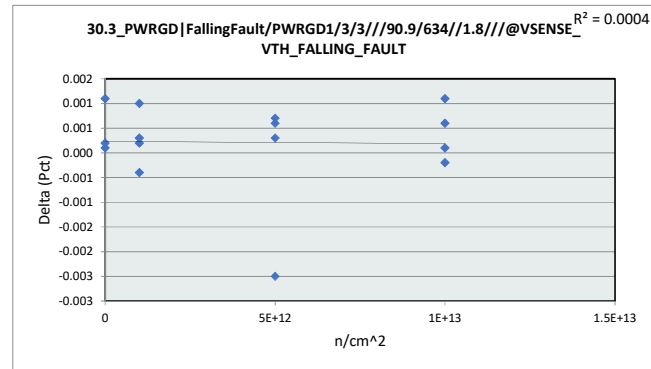


| 30.2_PWRGD VOL/PWRGD4/3/3//90.9/634//1.8///@PWRGD_OUTPUT<br>_LOW |         |         |         |         |
|------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                        |         |         |         |         |
| Tester                                                           |         |         |         |         |
| Test Number                                                      |         |         |         |         |
| Max Limit                                                        | 399     |         | mV      |         |
| Min Limit                                                        | 100     |         | mV      |         |
| n/cm^2                                                           | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                               | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                                                              | 316.469 | 314.780 | 313.943 | 314.165 |
| Average                                                          | 316.885 | 316.335 | 315.866 | 316.228 |
| Max                                                              | 317.715 | 317.528 | 317.800 | 318.396 |
| UL                                                               | 399.000 | 399.000 | 399.000 | 399.000 |

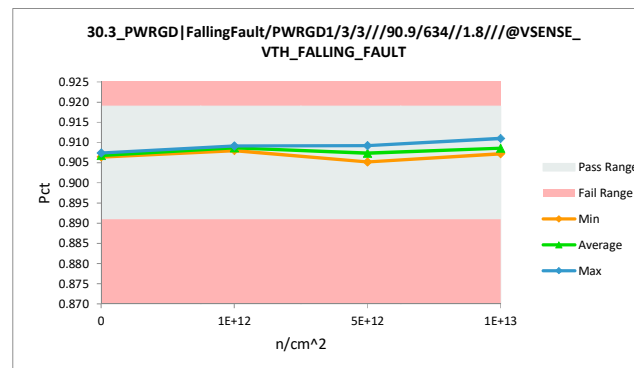


## NDD Report TPS7H4102-SP

| 30.3_PWRGD FallingFault/PWRGD1/3/3/ |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | Pct      | Pct                 |                    |        |
| Max Limit                           | 0.92     | 0.919               |                    |        |
| Min Limit                           | 0.89     | 0.891               |                    |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 0.906               | 0.907              | 0.001  |
| 0                                   | 2        | 0.906               | 0.906              | 0.000  |
| 0                                   | 3        | 0.906               | 0.906              | 0.000  |
| 1E+12                               | 30       | 0.908               | 0.909              | 0.001  |
| 1E+12                               | 31       | 0.909               | 0.908              | 0.000  |
| 1E+12                               | 32       | 0.909               | 0.909              | 0.000  |
| 1E+12                               | 33       | 0.908               | 0.908              | 0.000  |
| 5E+12                               | 34       | 0.908               | 0.909              | 0.001  |
| 5E+12                               | 35       | 0.905               | 0.905              | 0.001  |
| 5E+12                               | 36       | 0.909               | 0.909              | 0.000  |
| 5E+12                               | 37       | 0.909               | 0.906              | -0.002 |
| 1E+13                               | 38       | 0.911               | 0.911              | 0.000  |
| 1E+13                               | 39       | 0.907               | 0.907              | 0.000  |
| 1E+13                               | 40       | 0.907               | 0.908              | 0.001  |
| 1E+13                               | 41       | 0.907               | 0.908              | 0.001  |
|                                     | Max      | 0.911               | 0.911              | 0.001  |
|                                     | Average  | 0.908               | 0.908              | 0.000  |
|                                     | Min      | 0.905               | 0.905              | -0.002 |
|                                     | Std Dev  | 0.002               | 0.001              | 0.001  |

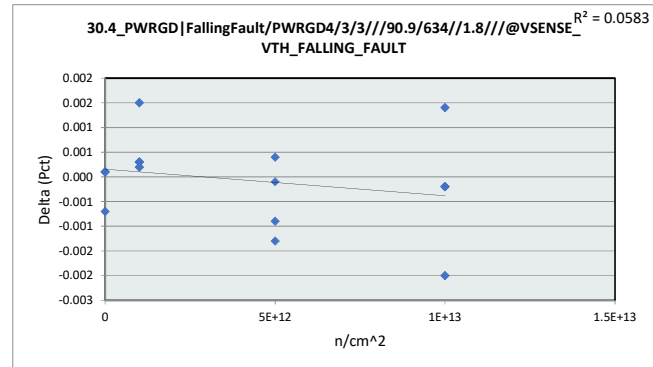


| 30.3_PWRGD FallingFault/PW |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 0.919 | Pct   |       |       |
| Min Limit                  | 0.891 | Pct   |       |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 0.891 | 0.891 | 0.891 | 0.891 |
| Min                        | 0.906 | 0.908 | 0.905 | 0.907 |
| Average                    | 0.907 | 0.909 | 0.907 | 0.909 |
| Max                        | 0.907 | 0.909 | 0.909 | 0.911 |
| UL                         | 0.919 | 0.919 | 0.919 | 0.919 |

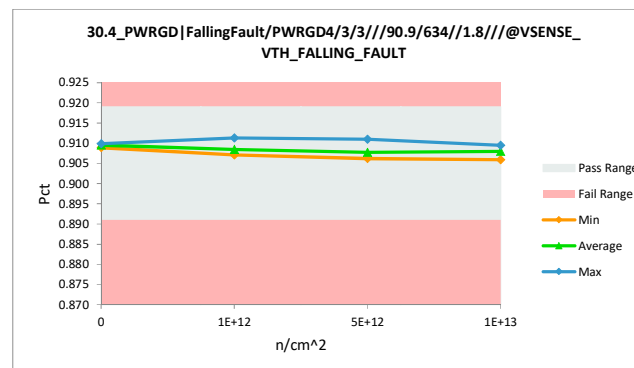


## NDD Report TPS7H4102-SP

| 30.4_PWRGD FallingFault/PWRGD4/3/3/ |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | Pct      | Pct                 |                    |        |
| Max Limit                           | 0.92     | 0.919               |                    |        |
| Min Limit                           | 0.89     | 0.891               |                    |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 0.910               | 0.909              | -0.001 |
| 0                                   | 2        | 0.910               | 0.910              | 0.000  |
| 0                                   | 3        | 0.910               | 0.910              | 0.000  |
| 1E+12                               | 30       | 0.907               | 0.908              | 0.002  |
| 1E+12                               | 31       | 0.907               | 0.907              | 0.000  |
| 1E+12                               | 32       | 0.907               | 0.907              | 0.000  |
| 1E+12                               | 33       | 0.911               | 0.911              | 0.000  |
| 5E+12                               | 34       | 0.911               | 0.911              | 0.000  |
| 5E+12                               | 35       | 0.907               | 0.907              | 0.000  |
| 5E+12                               | 36       | 0.908               | 0.906              | -0.001 |
| 5E+12                               | 37       | 0.907               | 0.906              | -0.001 |
| 1E+13                               | 38       | 0.910               | 0.910              | 0.000  |
| 1E+13                               | 39       | 0.908               | 0.909              | 0.001  |
| 1E+13                               | 40       | 0.908               | 0.906              | -0.002 |
| 1E+13                               | 41       | 0.908               | 0.908              | 0.000  |
| Max                                 |          | 0.911               | 0.911              | 0.002  |
| Average                             |          | 0.908               | 0.908              | 0.000  |
| Min                                 |          | 0.907               | 0.906              | -0.002 |
| Std Dev                             |          | 0.001               | 0.002              | 0.001  |

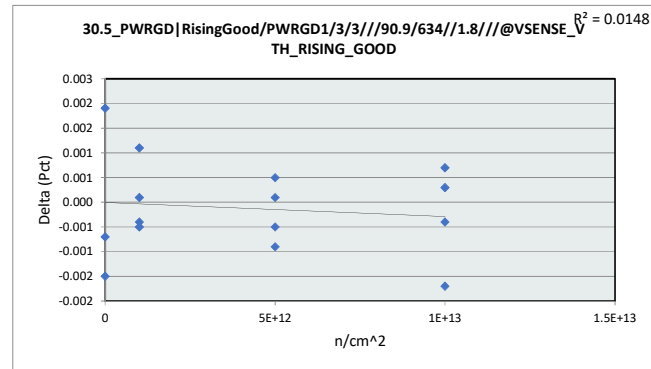


| 30.4_PWRGD FallingFault/PW |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 0.919 | Pct   |       |       |
| Min Limit                  | 0.891 | Pct   |       |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 0.891 | 0.891 | 0.891 | 0.891 |
| Min                        | 0.909 | 0.907 | 0.906 | 0.906 |
| Average                    | 0.910 | 0.908 | 0.908 | 0.908 |
| Max                        | 0.910 | 0.911 | 0.911 | 0.910 |
| UL                         | 0.919 | 0.919 | 0.919 | 0.919 |

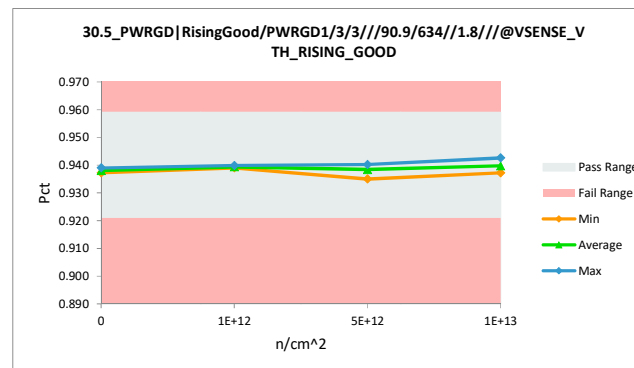


## NDD Report TPS7H4102-SP

| 30.5_PWRGD RisingGood/PWRGD1/3/3/ |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | Pct      | Pct                 |                    |        |
| Max Limit                         | 0.96     | 0.959               |                    |        |
| Min Limit                         | 0.92     | 0.921               |                    |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 0.937               | 0.939              | 0.002  |
| 0                                 | 2        | 0.939               | 0.937              | -0.002 |
| 0                                 | 3        | 0.939               | 0.938              | -0.001 |
| 1E+12                             | 30       | 0.939               | 0.940              | 0.001  |
| 1E+12                             | 31       | 0.939               | 0.939              | 0.000  |
| 1E+12                             | 32       | 0.939               | 0.939              | 0.000  |
| 1E+12                             | 33       | 0.939               | 0.940              | 0.000  |
| 5E+12                             | 34       | 0.941               | 0.940              | -0.001 |
| 5E+12                             | 35       | 0.934               | 0.935              | 0.001  |
| 5E+12                             | 36       | 0.940               | 0.940              | 0.000  |
| 5E+12                             | 37       | 0.940               | 0.939              | -0.001 |
| 1E+13                             | 38       | 0.943               | 0.943              | 0.000  |
| 1E+13                             | 39       | 0.939               | 0.937              | -0.002 |
| 1E+13                             | 40       | 0.939               | 0.940              | 0.001  |
| 1E+13                             | 41       | 0.939               | 0.939              | 0.000  |
|                                   | Max      | 0.943               | 0.943              | 0.002  |
|                                   | Average  | 0.939               | 0.939              | 0.000  |
|                                   | Min      | 0.934               | 0.935              | -0.002 |
|                                   | Std Dev  | 0.002               | 0.002              | 0.001  |



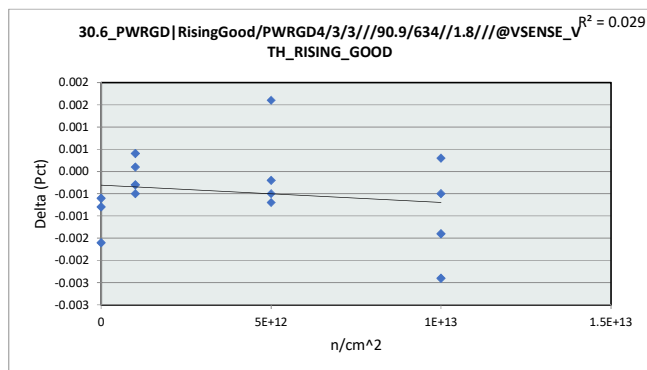
| 30.5_PWRGD RisingGood/PWRGD1/3/3/ |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| Test Site                         |       |       |       |       |
| Tester                            |       |       |       |       |
| Test Number                       |       |       |       |       |
| Max Limit                         | 0.959 | Pct   |       |       |
| Min Limit                         | 0.921 | Pct   |       |       |
| n/cm^2                            | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                | 0.921 | 0.921 | 0.921 | 0.921 |
| Min                               | 0.937 | 0.939 | 0.935 | 0.937 |
| Average                           | 0.938 | 0.939 | 0.938 | 0.940 |
| Max                               | 0.939 | 0.940 | 0.940 | 0.943 |
| UL                                | 0.959 | 0.959 | 0.959 | 0.959 |



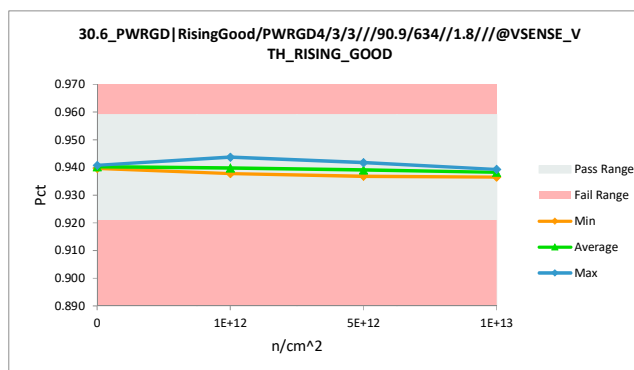


**NDD Report**  
**TPS7H4102-SP**

| 30.6_PWRGD RisingGood/PWRGD4/3/3/ |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | Pct      | Pct                 |                    |        |
| Max Limit                         | 0.96     | 0.959               |                    |        |
| Min Limit                         | 0.92     | 0.921               |                    |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 0.941               | 0.940              | -0.002 |
| 0                                 | 2        | 0.941               | 0.941              | -0.001 |
| 0                                 | 3        | 0.941               | 0.941              | -0.001 |
| 1E+12                             | 30       | 0.939               | 0.939              | 0.000  |
| 1E+12                             | 31       | 0.938               | 0.939              | 0.000  |
| 1E+12                             | 32       | 0.938               | 0.938              | -0.001 |
| 1E+12                             | 33       | 0.944               | 0.944              | 0.000  |
| 5E+12                             | 34       | 0.942               | 0.942              | -0.001 |
| 5E+12                             | 35       | 0.939               | 0.939              | 0.000  |
| 5E+12                             | 36       | 0.938               | 0.937              | -0.001 |
| 5E+12                             | 37       | 0.937               | 0.939              | 0.002  |
| 1E+13                             | 38       | 0.941               | 0.939              | -0.001 |
| 1E+13                             | 39       | 0.939               | 0.939              | 0.000  |
| 1E+13                             | 40       | 0.939               | 0.937              | -0.002 |
| 1E+13                             | 41       | 0.939               | 0.938              | -0.001 |
|                                   | Max      | 0.944               | 0.944              | 0.002  |
|                                   | Average  | 0.940               | 0.939              | 0.000  |
|                                   | Min      | 0.937               | 0.937              | -0.002 |
|                                   | Std Dev  | 0.002               | 0.002              | 0.001  |

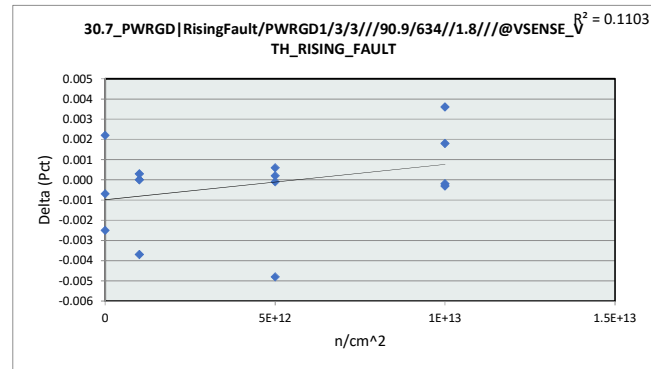


|             |       | 30.6_PWRGD   RisingGood/PW |       |       |
|-------------|-------|----------------------------|-------|-------|
| Test Site   |       |                            |       |       |
| Tester      |       |                            |       |       |
| Test Number |       |                            |       |       |
| Max Limit   | 0.959 | Pct                        |       |       |
| Min Limit   | 0.921 | Pct                        |       |       |
| n/cm^2      | 0     | 1E+12                      | 5E+12 | 1E+13 |
| LL          | 0.921 | 0.921                      | 0.921 | 0.921 |
| Min         | 0.940 | 0.938                      | 0.937 | 0.937 |
| Average     | 0.940 | 0.940                      | 0.939 | 0.938 |
| Max         | 0.941 | 0.944                      | 0.942 | 0.939 |
| UL          | 0.959 | 0.959                      | 0.959 | 0.959 |

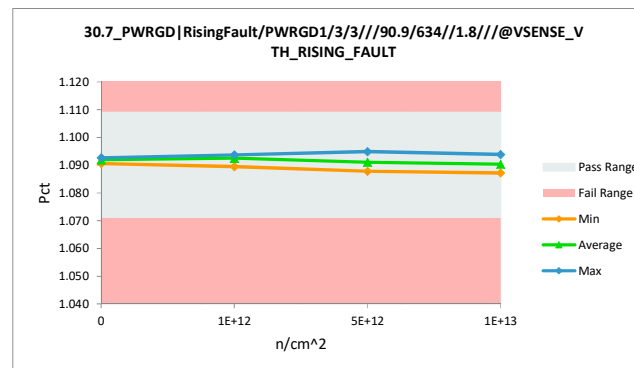


## NDD Report TPS7H4102-SP

| 30.7_PWRGD RisingFault/PWRGD1/3/3/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 1.11     | 1.109               |                    |        |
| Min Limit                          | 1.07     | 1.071               |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 1.090               | 1.093              | 0.002  |
| 0                                  | 2        | 1.093               | 1.091              | -0.002 |
| 0                                  | 3        | 1.093               | 1.092              | -0.001 |
| 1E+12                              | 30       | 1.093               | 1.089              | -0.004 |
| 1E+12                              | 31       | 1.093               | 1.093              | 0.000  |
| 1E+12                              | 32       | 1.093               | 1.094              | 0.000  |
| 1E+12                              | 33       | 1.094               | 1.094              | 0.000  |
| 5E+12                              | 34       | 1.094               | 1.095              | 0.001  |
| 5E+12                              | 35       | 1.089               | 1.089              | 0.000  |
| 5E+12                              | 36       | 1.093               | 1.093              | 0.000  |
| 5E+12                              | 37       | 1.093               | 1.088              | -0.005 |
| 1E+13                              | 38       | 1.094               | 1.094              | 0.000  |
| 1E+13                              | 39       | 1.087               | 1.091              | 0.004  |
| 1E+13                              | 40       | 1.088               | 1.089              | 0.002  |
| 1E+13                              | 41       | 1.087               | 1.087              | 0.000  |
|                                    | Max      | 1.094               | 1.095              | 0.004  |
|                                    | Average  | 1.092               | 1.091              | 0.000  |
|                                    | Min      | 1.087               | 1.087              | -0.005 |
|                                    | Std Dev  | 0.003               | 0.002              | 0.002  |



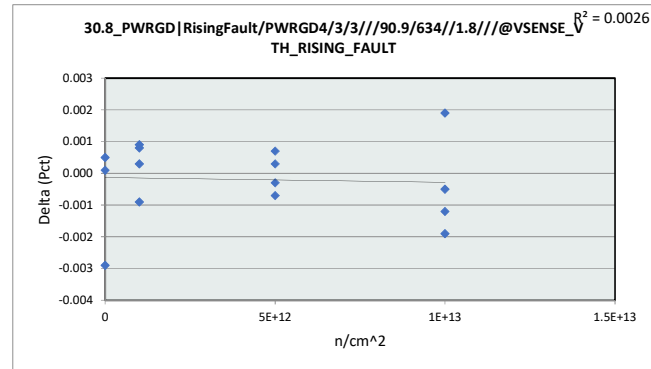
| 30.7_PWRGD RisingFault/PWRGD1/3/3/ |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|
| Test Site                          |       |       |       |       |
| Tester                             |       |       |       |       |
| Test Number                        |       |       |       |       |
| Max Limit                          | 1.109 | Pct   |       |       |
| Min Limit                          | 1.071 | Pct   |       |       |
| n/cm^2                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                 | 1.071 | 1.071 | 1.071 | 1.071 |
| Min                                | 1.091 | 1.090 | 1.088 | 1.087 |
| Average                            | 1.092 | 1.093 | 1.091 | 1.090 |
| Max                                | 1.093 | 1.094 | 1.095 | 1.094 |
| UL                                 | 1.109 | 1.109 | 1.109 | 1.109 |



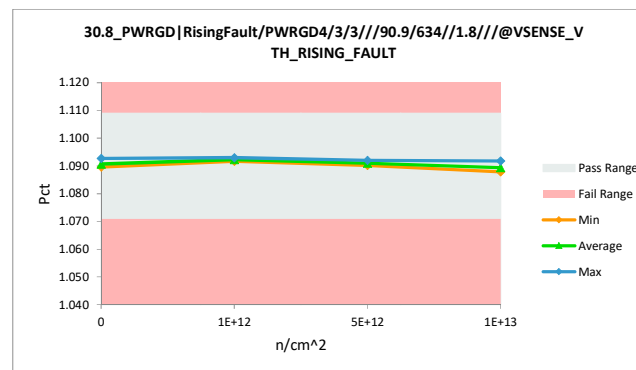
# NDD Report

## TPS7H4102-SP

| 30.8_PWRGD RisingFault/PWRGD4/3/3/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 1.11     | 1.109               |                    |        |
| Min Limit                          | 1.07     | 1.071               |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 1.089               | 1.090              | 0.000  |
| 0                                  | 2        | 1.092               | 1.090              | -0.003 |
| 0                                  | 3        | 1.093               | 1.093              | 0.000  |
| 1E+12                              | 30       | 1.091               | 1.092              | 0.001  |
| 1E+12                              | 31       | 1.093               | 1.092              | -0.001 |
| 1E+12                              | 32       | 1.093               | 1.093              | 0.000  |
| 1E+12                              | 33       | 1.092               | 1.093              | 0.001  |
| 5E+12                              | 34       | 1.090               | 1.090              | 0.000  |
| 5E+12                              | 35       | 1.091               | 1.092              | 0.001  |
| 5E+12                              | 36       | 1.091               | 1.090              | -0.001 |
| 5E+12                              | 37       | 1.091               | 1.091              | 0.000  |
| 1E+13                              | 38       | 1.088               | 1.088              | 0.000  |
| 1E+13                              | 39       | 1.090               | 1.089              | -0.002 |
| 1E+13                              | 40       | 1.090               | 1.092              | 0.002  |
| 1E+13                              | 41       | 1.090               | 1.089              | -0.001 |
|                                    | Max      | 1.093               | 1.093              | 0.002  |
|                                    | Average  | 1.091               | 1.091              | 0.000  |
|                                    | Min      | 1.088               | 1.088              | -0.003 |
|                                    | Std Dev  | 0.001               | 0.002              | 0.001  |

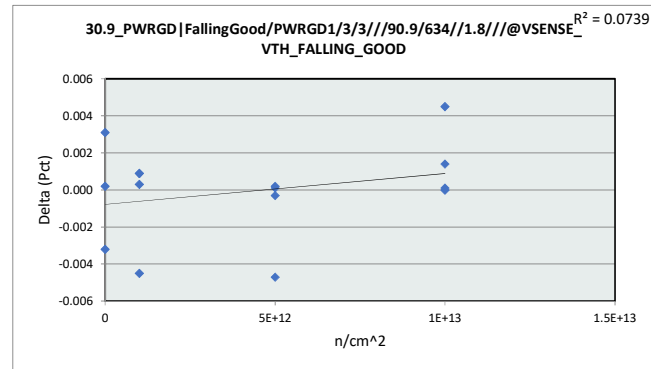


|             |       | 30.8_PWRGD RisingFault/PWR |       |       |  |
|-------------|-------|----------------------------|-------|-------|--|
| Test Site   |       |                            |       |       |  |
| Tester      |       |                            |       |       |  |
| Test Number |       |                            |       |       |  |
| Max Limit   | 1.109 | Pct                        |       |       |  |
| Min Limit   | 1.071 | Pct                        |       |       |  |
| n/cm^2      | 0     | 1E+12                      | 5E+12 | 1E+13 |  |
| LL          | 1.071 | 1.071                      | 1.071 | 1.071 |  |
| Min         | 1.090 | 1.092                      | 1.090 | 1.088 |  |
| Average     | 1.091 | 1.092                      | 1.091 | 1.089 |  |
| Max         | 1.093 | 1.093                      | 1.092 | 1.092 |  |
| UL          | 1.109 | 1.109                      | 1.109 | 1.109 |  |

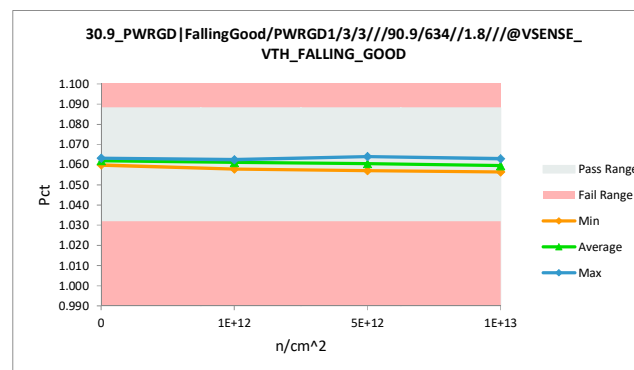


## NDD Report TPS7H4102-SP

| 30.9_PWRGD FallingGood/PWRGD1/3/3/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 1.09     | 1.088               |                    |        |
| Min Limit                          | 1.03     | 1.032               |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 1.060               | 1.063              | 0.003  |
| 0                                  | 2        | 1.063               | 1.060              | -0.003 |
| 0                                  | 3        | 1.063               | 1.063              | 0.000  |
| 1E+12                              | 30       | 1.062               | 1.058              | -0.005 |
| 1E+12                              | 31       | 1.062               | 1.063              | 0.001  |
| 1E+12                              | 32       | 1.062               | 1.062              | 0.000  |
| 1E+12                              | 33       | 1.061               | 1.062              | 0.001  |
| 5E+12                              | 34       | 1.064               | 1.064              | 0.000  |
| 5E+12                              | 35       | 1.057               | 1.057              | 0.000  |
| 5E+12                              | 36       | 1.063               | 1.063              | 0.000  |
| 5E+12                              | 37       | 1.063               | 1.058              | -0.005 |
| 1E+13                              | 38       | 1.063               | 1.063              | 0.000  |
| 1E+13                              | 39       | 1.056               | 1.061              | 0.004  |
| 1E+13                              | 40       | 1.056               | 1.058              | 0.001  |
| 1E+13                              | 41       | 1.056               | 1.056              | 0.000  |
|                                    | Max      | 1.064               | 1.064              | 0.004  |
|                                    | Average  | 1.061               | 1.061              | 0.000  |
|                                    | Min      | 1.056               | 1.056              | -0.005 |
|                                    | Std Dev  | 0.003               | 0.003              | 0.002  |

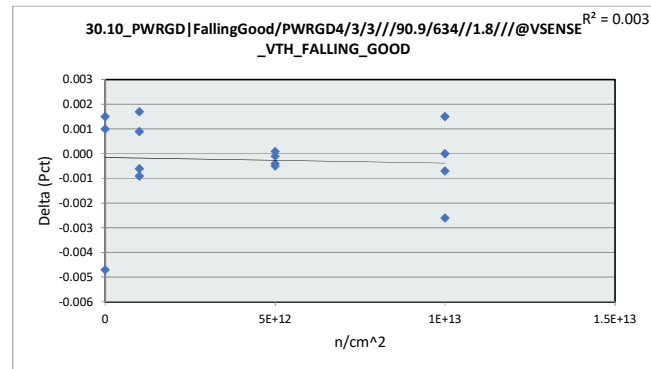


| 30.9_PWRGD FallingGood/PW |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 1.088 | Pct   |       |       |
| Min Limit                 | 1.032 | Pct   |       |       |
| n/cm^2                    | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 1.032 | 1.032 | 1.032 | 1.032 |
| Min                       | 1.060 | 1.058 | 1.057 | 1.056 |
| Average                   | 1.062 | 1.061 | 1.060 | 1.060 |
| Max                       | 1.063 | 1.063 | 1.064 | 1.063 |
| UL                        | 1.088 | 1.088 | 1.088 | 1.088 |

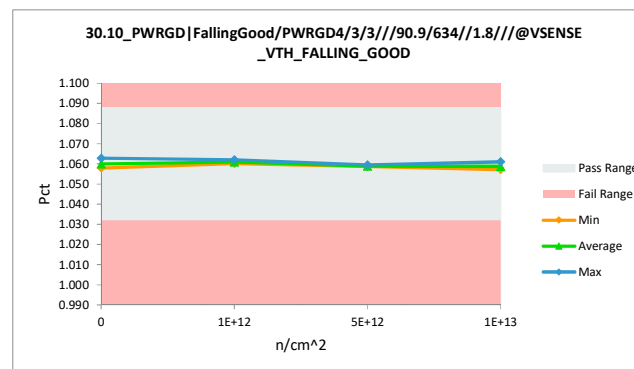


## NDD Report TPS7H4102-SP

| 30.10_PWRGD FallingGood/PWRGD4/3/3 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 1.09     | 1.088               |                    |        |
| Min Limit                          | 1.03     | 1.032               |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 1.058               | 1.059              | 0.002  |
| 0                                  | 2        | 1.063               | 1.058              | -0.005 |
| 0                                  | 3        | 1.062               | 1.063              | 0.001  |
| 1E+12                              | 30       | 1.059               | 1.061              | 0.002  |
| 1E+12                              | 31       | 1.061               | 1.060              | -0.001 |
| 1E+12                              | 32       | 1.061               | 1.061              | -0.001 |
| 1E+12                              | 33       | 1.061               | 1.062              | 0.001  |
| 5E+12                              | 34       | 1.059               | 1.059              | 0.000  |
| 5E+12                              | 35       | 1.059               | 1.059              | 0.000  |
| 5E+12                              | 36       | 1.059               | 1.059              | 0.000  |
| 5E+12                              | 37       | 1.059               | 1.059              | 0.000  |
| 1E+13                              | 38       | 1.057               | 1.057              | 0.000  |
| 1E+13                              | 39       | 1.060               | 1.058              | -0.003 |
| 1E+13                              | 40       | 1.059               | 1.061              | 0.002  |
| 1E+13                              | 41       | 1.060               | 1.059              | -0.001 |
|                                    | Max      | 1.063               | 1.063              | 0.002  |
|                                    | Average  | 1.060               | 1.060              | 0.000  |
|                                    | Min      | 1.057               | 1.057              | -0.005 |
|                                    | Std Dev  | 0.001               | 0.002              | 0.002  |

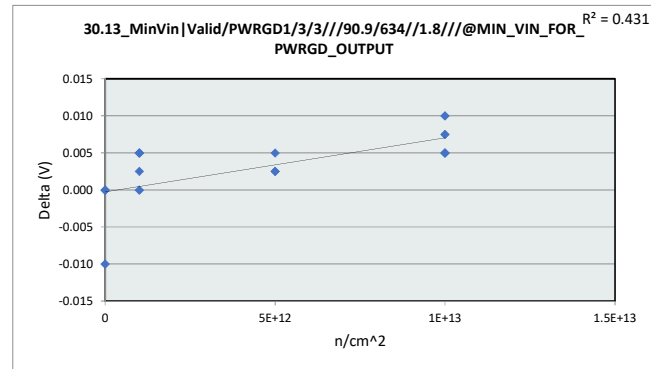


| 30.10_PWRGD FallingGood/PWRGD4/3/3 |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|
| Test Site                          |       |       |       |       |
| Tester                             |       |       |       |       |
| Test Number                        |       |       |       |       |
| Max Limit                          | 1.088 | Pct   |       |       |
| Min Limit                          | 1.032 | Pct   |       |       |
| n/cm^2                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                 | 1.032 | 1.032 | 1.032 | 1.032 |
| Min                                | 1.058 | 1.060 | 1.059 | 1.057 |
| Average                            | 1.060 | 1.061 | 1.059 | 1.059 |
| Max                                | 1.063 | 1.062 | 1.060 | 1.061 |
| UL                                 | 1.088 | 1.088 | 1.088 | 1.088 |

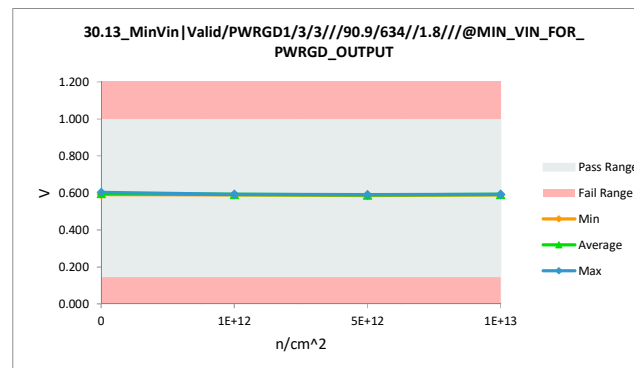


## NDD Report TPS7H4102-SP

| 30.13_MinVin Valid/PWRGD1/3/3///90.9 |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | V        |                     | V                  |        |
| Max Limit                            | 1        |                     | 0.995              |        |
| Min Limit                            | -0.025   |                     | 0.145              |        |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 0.591               | 0.591              | 0.000  |
| 0                                    | 2        | 0.604               | 0.594              | -0.010 |
| 0                                    | 3        | 0.604               | 0.604              | 0.000  |
| 1E+12                                | 30       | 0.586               | 0.591              | 0.005  |
| 1E+12                                | 31       | 0.589               | 0.589              | 0.000  |
| 1E+12                                | 32       | 0.589               | 0.594              | 0.005  |
| 1E+12                                | 33       | 0.591               | 0.594              | 0.002  |
| 5E+12                                | 34       | 0.589               | 0.591              | 0.002  |
| 5E+12                                | 35       | 0.584               | 0.586              | 0.002  |
| 5E+12                                | 36       | 0.586               | 0.591              | 0.005  |
| 5E+12                                | 37       | 0.586               | 0.589              | 0.002  |
| 1E+13                                | 38       | 0.589               | 0.594              | 0.005  |
| 1E+13                                | 39       | 0.584               | 0.591              | 0.007  |
| 1E+13                                | 40       | 0.584               | 0.594              | 0.010  |
| 1E+13                                | 41       | 0.584               | 0.589              | 0.005  |
|                                      | Max      | 0.604               | 0.604              | 0.010  |
|                                      | Average  | 0.589               | 0.592              | 0.003  |
|                                      | Min      | 0.584               | 0.586              | -0.010 |
|                                      | Std Dev  | 0.006               | 0.004              | 0.005  |

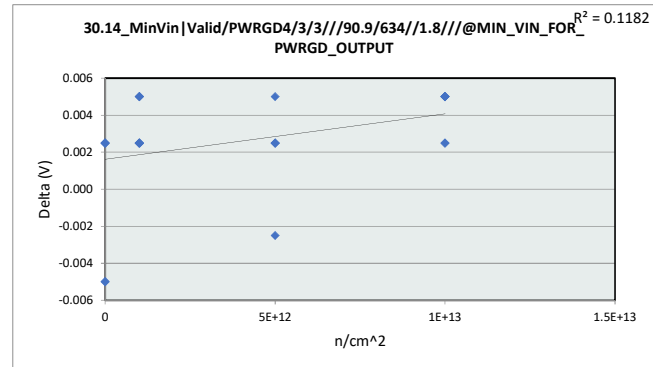


| 30.13_MinVin Valid/PWRGD1/3/3///90.9/634//1.8///@MIN_VIN_FOR_PWRGD_OUTPUT |       |       |       |       |
|---------------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                                 |       |       |       |       |
| Tester                                                                    |       |       |       |       |
| Test Number                                                               |       |       |       |       |
| Max Limit                                                                 | 0.995 |       | V     |       |
| Min Limit                                                                 | 0.145 |       | V     |       |
| n/cm^2                                                                    | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                                        | 0.145 | 0.145 | 0.145 | 0.145 |
| Min                                                                       | 0.591 | 0.589 | 0.586 | 0.589 |
| Average                                                                   | 0.596 | 0.592 | 0.589 | 0.592 |
| Max                                                                       | 0.604 | 0.594 | 0.591 | 0.594 |
| UL                                                                        | 0.995 | 0.995 | 0.995 | 0.995 |

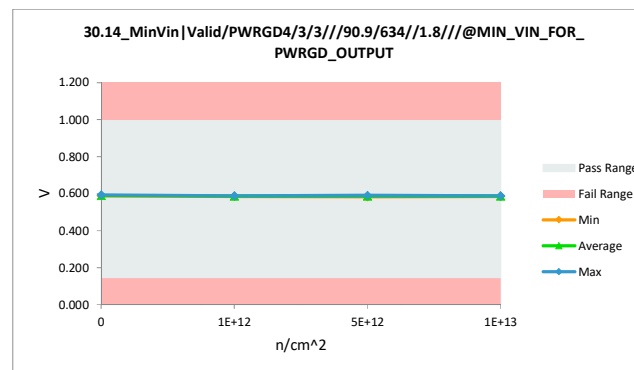


## NDD Report TPS7H4102-SP

| 30.14_MinVin Valid/PWRGD4/3/3///90.9 |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | V        |                     | V                  |        |
| Max Limit                            | 1        |                     | 0.995              |        |
| Min Limit                            | -0.025   |                     | 0.145              |        |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 0.586               | 0.589              | 0.002  |
| 0                                    | 2        | 0.594               | 0.589              | -0.005 |
| 0                                    | 3        | 0.591               | 0.594              | 0.002  |
| 1E+12                                | 30       | 0.584               | 0.589              | 0.005  |
| 1E+12                                | 31       | 0.584               | 0.586              | 0.002  |
| 1E+12                                | 32       | 0.584               | 0.589              | 0.005  |
| 1E+12                                | 33       | 0.586               | 0.589              | 0.002  |
| 5E+12                                | 34       | 0.586               | 0.591              | 0.005  |
| 5E+12                                | 35       | 0.584               | 0.586              | 0.002  |
| 5E+12                                | 36       | 0.586               | 0.589              | 0.002  |
| 5E+12                                | 37       | 0.586               | 0.584              | -0.002 |
| 1E+13                                | 38       | 0.584               | 0.589              | 0.005  |
| 1E+13                                | 39       | 0.584               | 0.589              | 0.005  |
| 1E+13                                | 40       | 0.584               | 0.589              | 0.005  |
| 1E+13                                | 41       | 0.584               | 0.586              | 0.002  |
|                                      | Max      | 0.594               | 0.594              | 0.005  |
|                                      | Average  | 0.586               | 0.588              | 0.003  |
|                                      | Min      | 0.584               | 0.584              | -0.005 |
|                                      | Std Dev  | 0.003               | 0.002              | 0.003  |

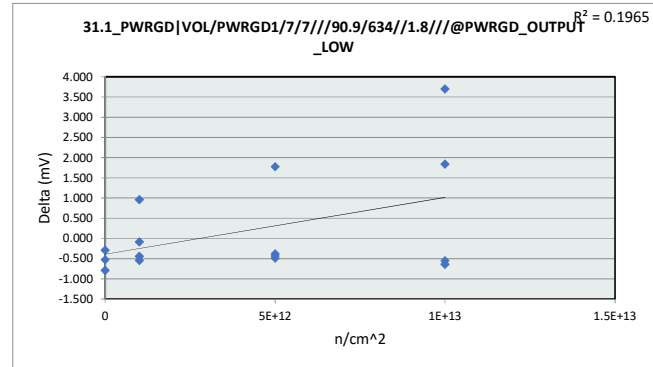


| 30.14_MinVin Valid/PWRGD4/3/3///90.9/634//1.8///@MIN_VIN_FOR_PWRGD_OUTPUT |       |       |       |       |
|---------------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                                 |       |       |       |       |
| Tester                                                                    |       |       |       |       |
| Test Number                                                               |       |       |       |       |
| Max Limit                                                                 | 0.995 |       | V     |       |
| Min Limit                                                                 | 0.145 |       | V     |       |
| n/cm^2                                                                    | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                                        | 0.145 | 0.145 | 0.145 | 0.145 |
| Min                                                                       | 0.589 | 0.586 | 0.584 | 0.586 |
| Average                                                                   | 0.590 | 0.588 | 0.587 | 0.588 |
| Max                                                                       | 0.594 | 0.589 | 0.591 | 0.589 |
| UL                                                                        | 0.995 | 0.995 | 0.995 | 0.995 |

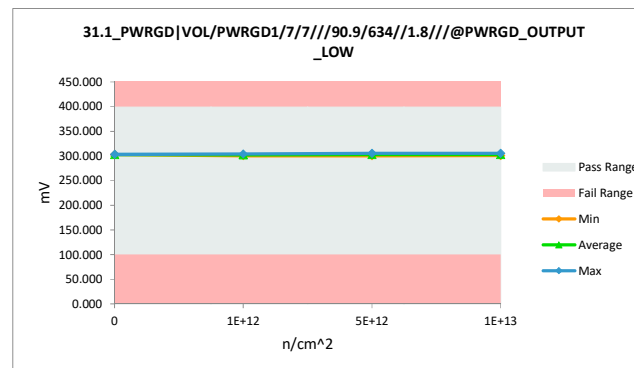


## NDD Report TPS7H4102-SP

| 31.1_PWRGD VOL/PWRGD1/7/7///90.9/ |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | mV       |                     | mV                 |        |
| Max Limit                         | 400      |                     | 399                |        |
| Min Limit                         | 40.2     |                     | 100                |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 303.120             | 302.830            | -0.289 |
| 0                                 | 2        | 303.535             | 302.746            | -0.789 |
| 0                                 | 3        | 303.551             | 303.024            | -0.527 |
| 1E+12                             | 30       | 303.101             | 304.061            | 0.960  |
| 1E+12                             | 31       | 302.901             | 302.818            | -0.083 |
| 1E+12                             | 32       | 302.941             | 302.399            | -0.542 |
| 1E+12                             | 33       | 300.761             | 300.322            | -0.439 |
| 5E+12                             | 34       | 300.758             | 300.378            | -0.380 |
| 5E+12                             | 35       | 302.301             | 301.871            | -0.430 |
| 5E+12                             | 36       | 303.441             | 302.952            | -0.489 |
| 5E+12                             | 37       | 303.379             | 305.157            | 1.778  |
| 1E+13                             | 38       | 302.788             | 302.149            | -0.639 |
| 1E+13                             | 39       | 301.389             | 305.086            | 3.697  |
| 1E+13                             | 40       | 301.461             | 303.302            | 1.841  |
| 1E+13                             | 41       | 301.433             | 300.884            | -0.548 |
|                                   | Max      | 303.551             | 305.157            | 3.697  |
|                                   | Average  | 302.457             | 302.665            | 0.208  |
|                                   | Min      | 300.758             | 300.322            | -0.789 |
|                                   | Std Dev  | 1.019               | 1.453              | 1.288  |



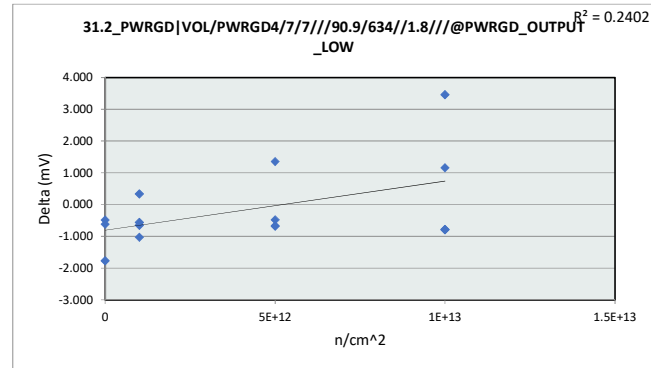
| 31.1_PWRGD VOL/PWRGD1/7/7///90.9/634//1.8///@PWRGD_OUTPUT<br>_LOW |         |         |         |         |
|-------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                         |         |         |         |         |
| Tester                                                            |         |         |         |         |
| Test Number                                                       |         |         |         |         |
| Max Limit                                                         | 399     |         | mV      |         |
| Min Limit                                                         | 100     |         | mV      |         |
| n/cm^2                                                            | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                                | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                                                               | 302.746 | 300.322 | 300.378 | 300.884 |
| Average                                                           | 302.867 | 302.400 | 302.590 | 302.855 |
| Max                                                               | 303.024 | 304.061 | 305.157 | 305.086 |
| UL                                                                | 399.000 | 399.000 | 399.000 | 399.000 |



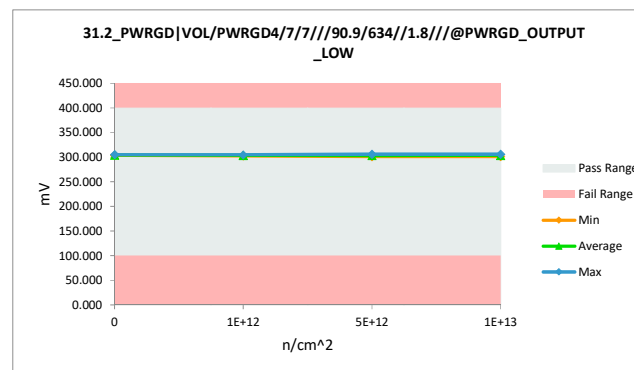


## NDD Report TPS7H4102-SP

| 31.2_PWRGD VOL/PWRGD4/7/7///90.9/ |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | mV       |                     | mV                 |        |
| Max Limit                         | 400      |                     | 399                |        |
| Min Limit                         | 40.2     |                     | 100                |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 304.365             | 303.882            | -0.483 |
| 0                                 | 2        | 305.698             | 303.926            | -1.772 |
| 0                                 | 3        | 305.717             | 305.100            | -0.617 |
| 1E+12                             | 30       | 304.555             | 304.888            | 0.333  |
| 1E+12                             | 31       | 304.702             | 304.141            | -0.560 |
| 1E+12                             | 32       | 304.755             | 303.729            | -1.026 |
| 1E+12                             | 33       | 302.850             | 302.199            | -0.651 |
| 5E+12                             | 34       | 302.016             | 301.350            | -0.667 |
| 5E+12                             | 35       | 302.987             | 302.511            | -0.476 |
| 5E+12                             | 36       | 304.795             | 304.119            | -0.676 |
| 5E+12                             | 37       | 304.699             | 306.055            | 1.357  |
| 1E+13                             | 38       | 304.452             | 303.670            | -0.782 |
| 1E+13                             | 39       | 302.369             | 305.831            | 3.462  |
| 1E+13                             | 40       | 302.406             | 303.564            | 1.157  |
| 1E+13                             | 41       | 302.406             | 301.618            | -0.788 |
|                                   | Max      | 305.717             | 306.055            | 3.462  |
|                                   | Average  | 303.918             | 303.772            | -0.146 |
|                                   | Min      | 302.016             | 301.350            | -1.772 |
|                                   | Std Dev  | 1.270               | 1.398              | 1.278  |

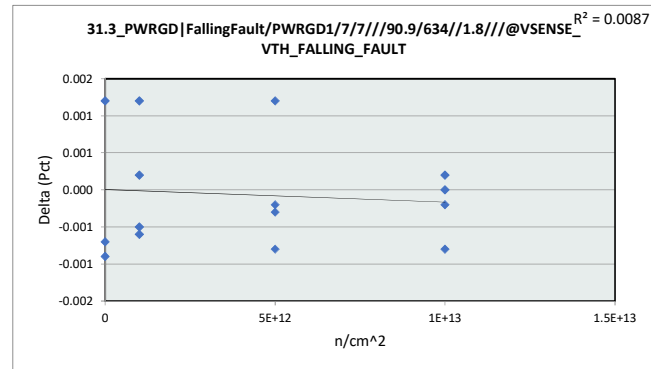


| 31.2_PWRGD VOL/PWRGD4/7/7///90.9/634//1.8///@PWRGD_OUTPUT<br>_LOW |         |         |         |         |
|-------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                         |         |         |         |         |
| Tester                                                            |         |         |         |         |
| Test Number                                                       |         |         |         |         |
| Max Limit                                                         | 399     |         | mV      |         |
| Min Limit                                                         | 100     |         | mV      |         |
| n/cm^2                                                            | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                                | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                                                               | 303.882 | 302.199 | 301.350 | 301.618 |
| Average                                                           | 304.303 | 303.739 | 303.509 | 303.670 |
| Max                                                               | 305.100 | 304.888 | 306.055 | 305.831 |
| UL                                                                | 399.000 | 399.000 | 399.000 | 399.000 |

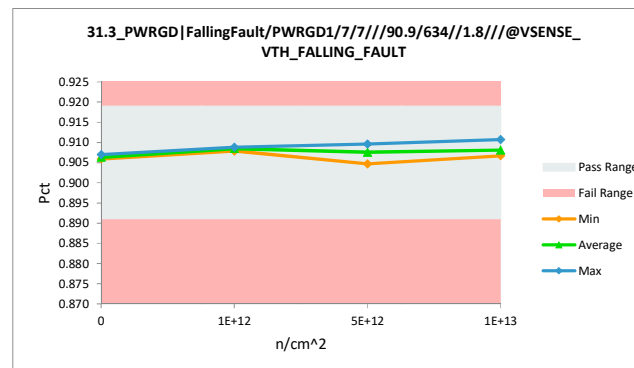


## NDD Report TPS7H4102-SP

| 31.3_PWRGD FallingFault/PWRGD1/7/7/ |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | Pct      | Pct                 |                    |        |
| Max Limit                           | 0.92     | 0.919               |                    |        |
| Min Limit                           | 0.89     | 0.891               |                    |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 0.906               | 0.907              | 0.001  |
| 0                                   | 2        | 0.907               | 0.906              | -0.001 |
| 0                                   | 3        | 0.907               | 0.906              | -0.001 |
| 1E+12                               | 30       | 0.908               | 0.909              | 0.001  |
| 1E+12                               | 31       | 0.908               | 0.908              | -0.001 |
| 1E+12                               | 32       | 0.909               | 0.909              | -0.001 |
| 1E+12                               | 33       | 0.908               | 0.909              | 0.000  |
| 5E+12                               | 34       | 0.909               | 0.909              | 0.000  |
| 5E+12                               | 35       | 0.905               | 0.905              | 0.000  |
| 5E+12                               | 36       | 0.908               | 0.910              | 0.001  |
| 5E+12                               | 37       | 0.908               | 0.908              | -0.001 |
| 1E+13                               | 38       | 0.911               | 0.911              | 0.000  |
| 1E+13                               | 39       | 0.908               | 0.907              | -0.001 |
| 1E+13                               | 40       | 0.908               | 0.908              | 0.000  |
| 1E+13                               | 41       | 0.908               | 0.907              | 0.000  |
| Max                                 |          | 0.911               | 0.911              | 0.001  |
| Average                             |          | 0.908               | 0.908              | 0.000  |
| Min                                 |          | 0.905               | 0.905              | -0.001 |
| Std Dev                             |          | 0.001               | 0.002              | 0.001  |

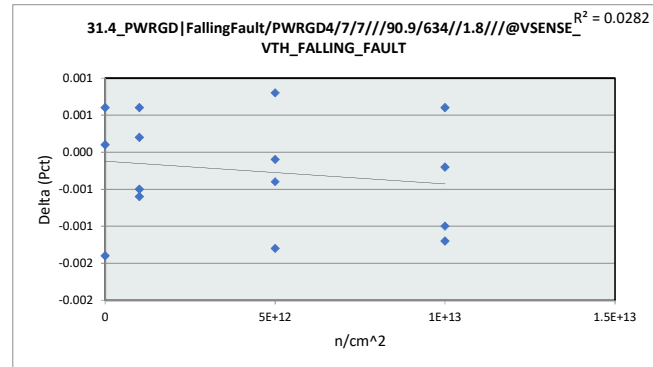


| 31.3_PWRGD FallingFault/PW |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 0.919 | Pct   |       |       |
| Min Limit                  | 0.891 | Pct   |       |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 0.891 | 0.891 | 0.891 | 0.891 |
| Min                        | 0.906 | 0.908 | 0.905 | 0.907 |
| Average                    | 0.906 | 0.908 | 0.908 | 0.908 |
| Max                        | 0.907 | 0.909 | 0.910 | 0.911 |
| UL                         | 0.919 | 0.919 | 0.919 | 0.919 |

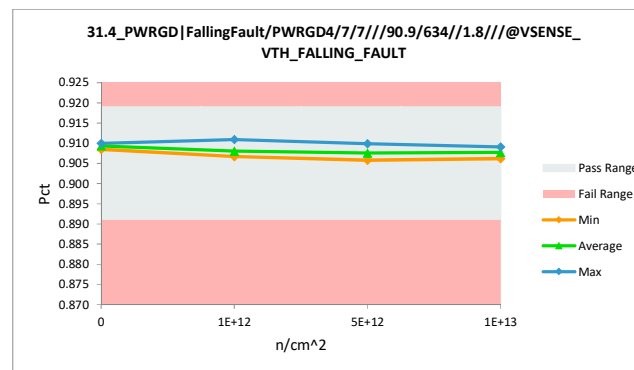


## NDD Report TPS7H4102-SP

| 31.4_PWRGD FallingFault/PWRGD4/7/7/ |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | Pct      | Pct                 |                    |        |
| Max Limit                           | 0.92     | 0.919               |                    |        |
| Min Limit                           | 0.89     | 0.891               |                    |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 0.910               | 0.909              | -0.001 |
| 0                                   | 2        | 0.909               | 0.910              | 0.001  |
| 0                                   | 3        | 0.909               | 0.910              | 0.000  |
| 1E+12                               | 30       | 0.907               | 0.908              | 0.001  |
| 1E+12                               | 31       | 0.907               | 0.907              | -0.001 |
| 1E+12                               | 32       | 0.907               | 0.907              | 0.000  |
| 1E+12                               | 33       | 0.911               | 0.911              | 0.000  |
| 5E+12                               | 34       | 0.910               | 0.910              | 0.000  |
| 5E+12                               | 35       | 0.907               | 0.907              | 0.000  |
| 5E+12                               | 36       | 0.907               | 0.906              | -0.001 |
| 5E+12                               | 37       | 0.907               | 0.908              | 0.001  |
| 1E+13                               | 38       | 0.910               | 0.909              | -0.001 |
| 1E+13                               | 39       | 0.908               | 0.909              | 0.001  |
| 1E+13                               | 40       | 0.907               | 0.906              | -0.001 |
| 1E+13                               | 41       | 0.907               | 0.907              | 0.000  |
| Max                                 |          | 0.911               | 0.911              | 0.001  |
| Average                             |          | 0.908               | 0.908              | 0.000  |
| Min                                 |          | 0.907               | 0.906              | -0.001 |
| Std Dev                             |          | 0.001               | 0.002              | 0.001  |

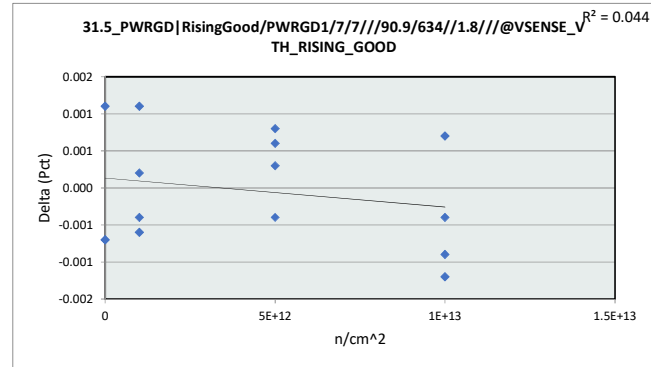


| 31.4_PWRGD FallingFault/PW |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 0.919 | Pct   |       |       |
| Min Limit                  | 0.891 | Pct   |       |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 0.891 | 0.891 | 0.891 | 0.891 |
| Min                        | 0.909 | 0.907 | 0.906 | 0.906 |
| Average                    | 0.909 | 0.908 | 0.908 | 0.908 |
| Max                        | 0.910 | 0.911 | 0.910 | 0.909 |
| UL                         | 0.919 | 0.919 | 0.919 | 0.919 |

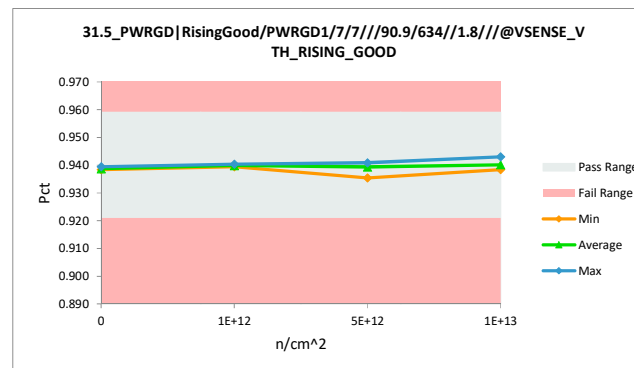


## NDD Report TPS7H4102-SP

| 31.5_PWRGD RisingGood/PWRGD1/7/7/ |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | Pct      | Pct                 |                    |        |
| Max Limit                         | 0.96     | 0.959               |                    |        |
| Min Limit                         | 0.92     | 0.921               |                    |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 0.938               | 0.939              | 0.001  |
| 0                                 | 2        | 0.939               | 0.938              | -0.001 |
| 0                                 | 3        | 0.939               | 0.938              | -0.001 |
| 1E+12                             | 30       | 0.939               | 0.940              | 0.001  |
| 1E+12                             | 31       | 0.940               | 0.940              | 0.000  |
| 1E+12                             | 32       | 0.940               | 0.939              | -0.001 |
| 1E+12                             | 33       | 0.940               | 0.940              | 0.000  |
| 5E+12                             | 34       | 0.941               | 0.941              | 0.000  |
| 5E+12                             | 35       | 0.935               | 0.935              | 0.001  |
| 5E+12                             | 36       | 0.940               | 0.940              | 0.000  |
| 5E+12                             | 37       | 0.940               | 0.941              | 0.001  |
| 1E+13                             | 38       | 0.943               | 0.943              | 0.000  |
| 1E+13                             | 39       | 0.939               | 0.938              | -0.001 |
| 1E+13                             | 40       | 0.939               | 0.940              | 0.001  |
| 1E+13                             | 41       | 0.940               | 0.939              | -0.001 |
|                                   | Max      | 0.943               | 0.943              | 0.001  |
|                                   | Average  | 0.940               | 0.940              | 0.000  |
|                                   | Min      | 0.935               | 0.935              | -0.001 |
|                                   | Std Dev  | 0.002               | 0.002              | 0.001  |

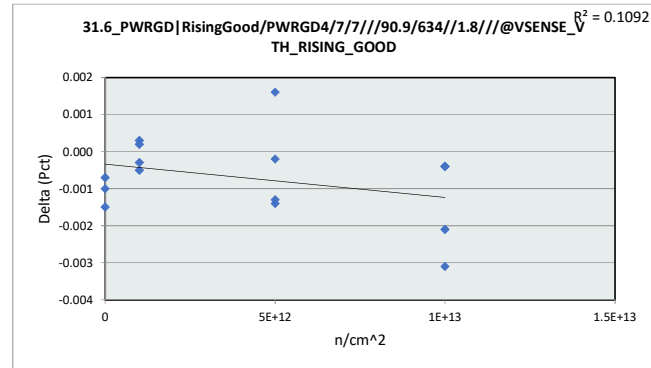


| 31.5_PWRGD RisingGood/PWRGD1/7/7/ |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| Test Site                         |       |       |       |       |
| Tester                            |       |       |       |       |
| Test Number                       |       |       |       |       |
| Max Limit                         | 0.959 | Pct   |       |       |
| Min Limit                         | 0.921 | Pct   |       |       |
| n/cm^2                            | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                | 0.921 | 0.921 | 0.921 | 0.921 |
| Min                               | 0.938 | 0.939 | 0.935 | 0.938 |
| Average                           | 0.939 | 0.940 | 0.939 | 0.940 |
| Max                               | 0.939 | 0.940 | 0.941 | 0.943 |
| UL                                | 0.959 | 0.959 | 0.959 | 0.959 |

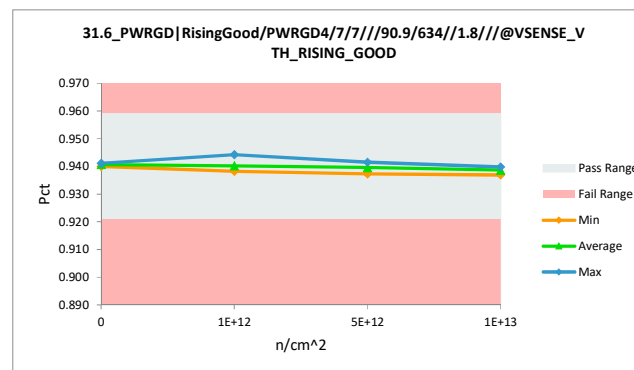


## NDD Report TPS7H4102-SP

| 31.6_PWRGD RisingGood/PWRGD4/7/7/ |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | Pct      | Pct                 |                    |        |
| Max Limit                         | 0.96     | 0.959               |                    |        |
| Min Limit                         | 0.92     | 0.921               |                    |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 0.942               | 0.940              | -0.002 |
| 0                                 | 2        | 0.942               | 0.941              | -0.001 |
| 0                                 | 3        | 0.942               | 0.941              | -0.001 |
| 1E+12                             | 30       | 0.940               | 0.939              | 0.000  |
| 1E+12                             | 31       | 0.939               | 0.939              | 0.000  |
| 1E+12                             | 32       | 0.939               | 0.938              | -0.001 |
| 1E+12                             | 33       | 0.944               | 0.944              | 0.000  |
| 5E+12                             | 34       | 0.943               | 0.942              | -0.001 |
| 5E+12                             | 35       | 0.939               | 0.939              | 0.000  |
| 5E+12                             | 36       | 0.939               | 0.937              | -0.001 |
| 5E+12                             | 37       | 0.939               | 0.940              | 0.002  |
| 1E+13                             | 38       | 0.942               | 0.940              | -0.002 |
| 1E+13                             | 39       | 0.940               | 0.939              | 0.000  |
| 1E+13                             | 40       | 0.940               | 0.937              | -0.003 |
| 1E+13                             | 41       | 0.939               | 0.939              | 0.000  |
|                                   | Max      | 0.944               | 0.944              | 0.002  |
|                                   | Average  | 0.940               | 0.940              | -0.001 |
|                                   | Min      | 0.939               | 0.937              | -0.003 |
|                                   | Std Dev  | 0.002               | 0.002              | 0.001  |

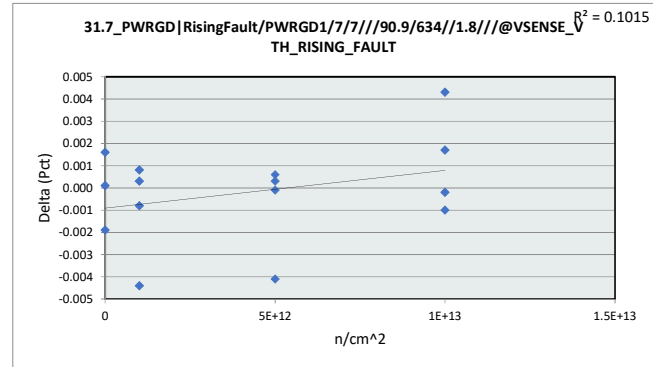


| 31.6_PWRGD RisingGood/PWRGD4/7/7/ |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| Test Site                         |       |       |       |       |
| Tester                            |       |       |       |       |
| Test Number                       |       |       |       |       |
| Max Limit                         | 0.959 | Pct   |       |       |
| Min Limit                         | 0.921 | Pct   |       |       |
| n/cm^2                            | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                | 0.921 | 0.921 | 0.921 | 0.921 |
| Min                               | 0.940 | 0.938 | 0.937 | 0.937 |
| Average                           | 0.941 | 0.940 | 0.940 | 0.939 |
| Max                               | 0.941 | 0.944 | 0.942 | 0.940 |
| UL                                | 0.959 | 0.959 | 0.959 | 0.959 |

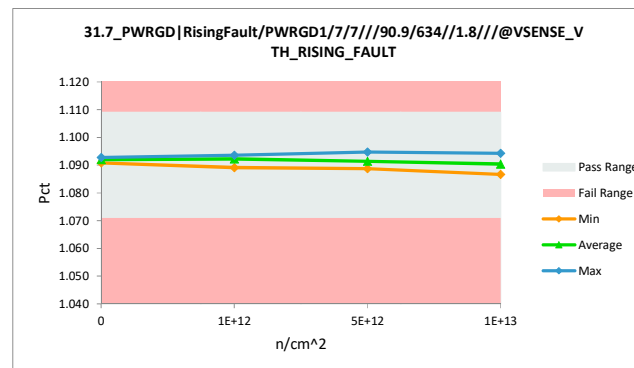


## NDD Report TPS7H4102-SP

| 31.7_PWRGD RisingFault/PWRGD1/7/7/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 1.11     | 1.109               |                    |        |
| Min Limit                          | 1.07     | 1.071               |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 1.091               | 1.092              | 0.002  |
| 0                                  | 2        | 1.093               | 1.091              | -0.002 |
| 0                                  | 3        | 1.093               | 1.093              | 0.000  |
| 1E+12                              | 30       | 1.094               | 1.089              | -0.004 |
| 1E+12                              | 31       | 1.093               | 1.094              | 0.001  |
| 1E+12                              | 32       | 1.093               | 1.093              | 0.000  |
| 1E+12                              | 33       | 1.094               | 1.093              | -0.001 |
| 5E+12                              | 34       | 1.095               | 1.095              | 0.000  |
| 5E+12                              | 35       | 1.088               | 1.089              | 0.001  |
| 5E+12                              | 36       | 1.093               | 1.093              | 0.000  |
| 5E+12                              | 37       | 1.093               | 1.089              | -0.004 |
| 1E+13                              | 38       | 1.094               | 1.094              | 0.000  |
| 1E+13                              | 39       | 1.087               | 1.091              | 0.004  |
| 1E+13                              | 40       | 1.088               | 1.090              | 0.002  |
| 1E+13                              | 41       | 1.088               | 1.087              | -0.001 |
|                                    | Max      | 1.095               | 1.095              | 0.004  |
|                                    | Average  | 1.092               | 1.091              | 0.000  |
|                                    | Min      | 1.087               | 1.087              | -0.004 |
|                                    | Std Dev  | 0.003               | 0.002              | 0.002  |

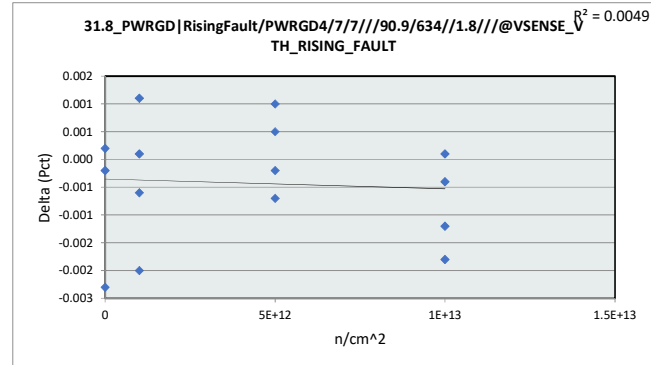


| 31.7_PWRGD RisingFault/PWRGD1/7/7///90.9/634//1.8///@VSENSE_V |       |       |       |       |
|---------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                     |       |       |       |       |
| Tester                                                        |       |       |       |       |
| Test Number                                                   |       |       |       |       |
| Max Limit                                                     | 1.109 | Pct   |       |       |
| Min Limit                                                     | 1.071 | Pct   |       |       |
| n/cm^2                                                        | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                            | 1.071 | 1.071 | 1.071 | 1.071 |
| Min                                                           | 1.091 | 1.089 | 1.089 | 1.087 |
| Average                                                       | 1.092 | 1.092 | 1.091 | 1.090 |
| Max                                                           | 1.093 | 1.094 | 1.095 | 1.094 |
| UL                                                            | 1.109 | 1.109 | 1.109 | 1.109 |

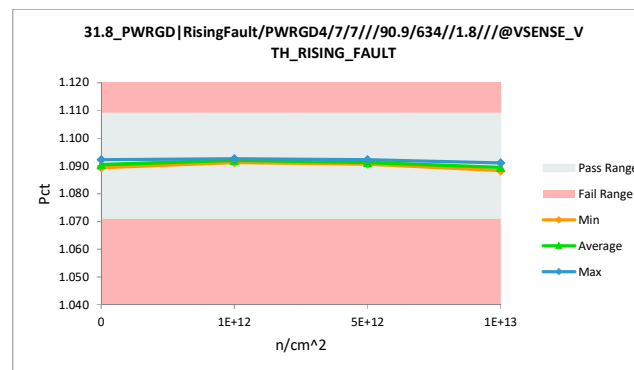


## NDD Report TPS7H4102-SP

| 31.8_PWRGD RisingFault/PWRGD4/7/7/ |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 1.11     | 1.109               |                    |        |
| Min Limit                          | 1.07     | 1.071               |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 1.090               | 1.089              | 0.000  |
| 0                                  | 2        | 1.092               | 1.090              | -0.002 |
| 0                                  | 3        | 1.092               | 1.092              | 0.000  |
| 1E+12                              | 30       | 1.091               | 1.092              | 0.001  |
| 1E+12                              | 31       | 1.093               | 1.091              | -0.002 |
| 1E+12                              | 32       | 1.093               | 1.093              | -0.001 |
| 1E+12                              | 33       | 1.092               | 1.092              | 0.000  |
| 5E+12                              | 34       | 1.090               | 1.091              | 0.001  |
| 5E+12                              | 35       | 1.092               | 1.091              | 0.000  |
| 5E+12                              | 36       | 1.091               | 1.091              | -0.001 |
| 5E+12                              | 37       | 1.091               | 1.092              | 0.001  |
| 1E+13                              | 38       | 1.089               | 1.088              | 0.000  |
| 1E+13                              | 39       | 1.091               | 1.089              | -0.002 |
| 1E+13                              | 40       | 1.091               | 1.091              | 0.000  |
| 1E+13                              | 41       | 1.091               | 1.090              | -0.001 |
|                                    | Max      | 1.093               | 1.093              | 0.001  |
|                                    | Average  | 1.091               | 1.091              | 0.000  |
|                                    | Min      | 1.089               | 1.088              | -0.002 |
|                                    | Std Dev  | 0.001               | 0.001              | 0.001  |

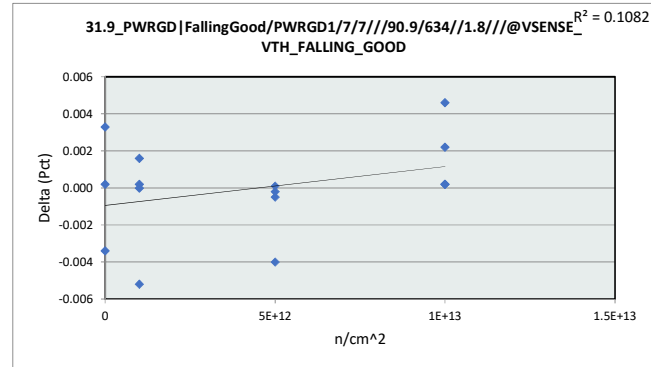


| 31.8_PWRGD RisingFault/PWRGD4/7/7/ |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|
| Test Site                          |       |       |       |       |
| Tester                             |       |       |       |       |
| Test Number                        |       |       |       |       |
| Max Limit                          | 1.109 | Pct   |       |       |
| Min Limit                          | 1.071 | Pct   |       |       |
| n/cm^2                             | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                 | 1.071 | 1.071 | 1.071 | 1.071 |
| Min                                | 1.089 | 1.091 | 1.091 | 1.088 |
| Average                            | 1.091 | 1.092 | 1.091 | 1.089 |
| Max                                | 1.092 | 1.093 | 1.092 | 1.091 |
| UL                                 | 1.109 | 1.109 | 1.109 | 1.109 |

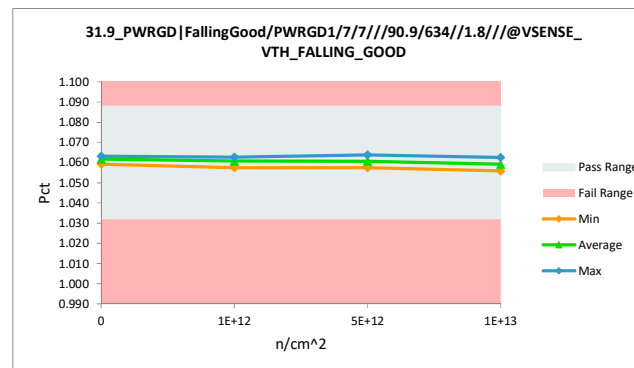


## NDD Report TPS7H4102-SP

| 31.9_PWRGD FallingGood/PWRGD1/7/7// |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | Pct      | Pct                 |                    |        |
| Max Limit                           | 1.09     | 1.088               |                    |        |
| Min Limit                           | 1.03     | 1.032               |                    |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 1.060               | 1.063              | 0.003  |
| 0                                   | 2        | 1.063               | 1.059              | -0.003 |
| 0                                   | 3        | 1.063               | 1.063              | 0.000  |
| 1E+12                               | 30       | 1.063               | 1.058              | -0.005 |
| 1E+12                               | 31       | 1.061               | 1.063              | 0.002  |
| 1E+12                               | 32       | 1.061               | 1.061              | 0.000  |
| 1E+12                               | 33       | 1.062               | 1.062              | 0.000  |
| 5E+12                               | 34       | 1.064               | 1.064              | 0.000  |
| 5E+12                               | 35       | 1.057               | 1.057              | 0.000  |
| 5E+12                               | 36       | 1.063               | 1.063              | 0.000  |
| 5E+12                               | 37       | 1.063               | 1.059              | -0.004 |
| 1E+13                               | 38       | 1.062               | 1.063              | 0.000  |
| 1E+13                               | 39       | 1.056               | 1.060              | 0.005  |
| 1E+13                               | 40       | 1.056               | 1.058              | 0.002  |
| 1E+13                               | 41       | 1.056               | 1.056              | 0.000  |
|                                     | Max      | 1.064               | 1.064              | 0.005  |
|                                     | Average  | 1.061               | 1.061              | 0.000  |
|                                     | Min      | 1.056               | 1.056              | -0.005 |
|                                     | Std Dev  | 0.003               | 0.003              | 0.003  |



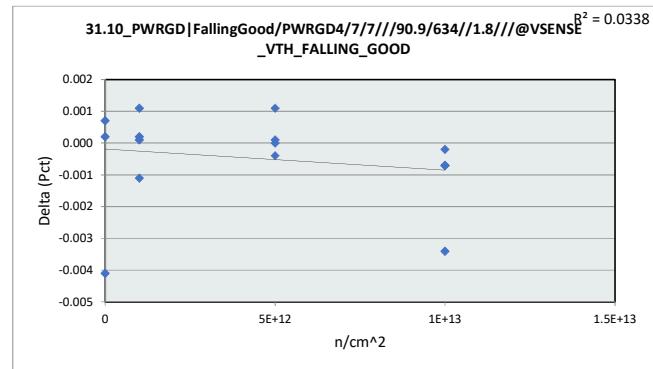
| 31.9_PWRGD FallingGood/PW |       |       |       |       |
|---------------------------|-------|-------|-------|-------|
| Test Site                 |       |       |       |       |
| Tester                    |       |       |       |       |
| Test Number               |       |       |       |       |
| Max Limit                 | 1.088 | Pct   |       |       |
| Min Limit                 | 1.032 | Pct   |       |       |
| n/cm^2                    | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                        | 1.032 | 1.032 | 1.032 | 1.032 |
| Min                       | 1.059 | 1.058 | 1.057 | 1.056 |
| Average                   | 1.062 | 1.061 | 1.061 | 1.059 |
| Max                       | 1.063 | 1.063 | 1.064 | 1.063 |
| UL                        | 1.088 | 1.088 | 1.088 | 1.088 |



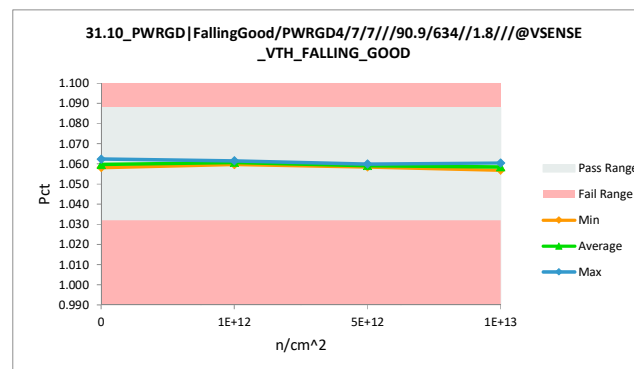


## NDD Report TPS7H4102-SP

| 31.10_PWRGD FallingGood/PWRGD4/7/7 |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | Pct      | Pct                 |                    |        |
| Max Limit                          | 1.09     | 1.088               |                    |        |
| Min Limit                          | 1.03     | 1.032               |                    |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 1.058               | 1.059              | 0.001  |
| 0                                  | 2        | 1.062               | 1.058              | -0.004 |
| 0                                  | 3        | 1.062               | 1.062              | 0.000  |
| 1E+12                              | 30       | 1.059               | 1.061              | 0.001  |
| 1E+12                              | 31       | 1.061               | 1.060              | -0.001 |
| 1E+12                              | 32       | 1.061               | 1.061              | 0.000  |
| 1E+12                              | 33       | 1.061               | 1.061              | 0.000  |
| 5E+12                              | 34       | 1.059               | 1.059              | 0.000  |
| 5E+12                              | 35       | 1.060               | 1.060              | 0.000  |
| 5E+12                              | 36       | 1.059               | 1.058              | 0.000  |
| 5E+12                              | 37       | 1.059               | 1.060              | 0.001  |
| 1E+13                              | 38       | 1.058               | 1.057              | -0.001 |
| 1E+13                              | 39       | 1.060               | 1.057              | -0.003 |
| 1E+13                              | 40       | 1.061               | 1.060              | 0.000  |
| 1E+13                              | 41       | 1.060               | 1.060              | -0.001 |
|                                    | Max      | 1.062               | 1.062              | 0.001  |
|                                    | Average  | 1.060               | 1.059              | 0.000  |
|                                    | Min      | 1.058               | 1.057              | -0.004 |
|                                    | Std Dev  | 0.001               | 0.002              | 0.001  |

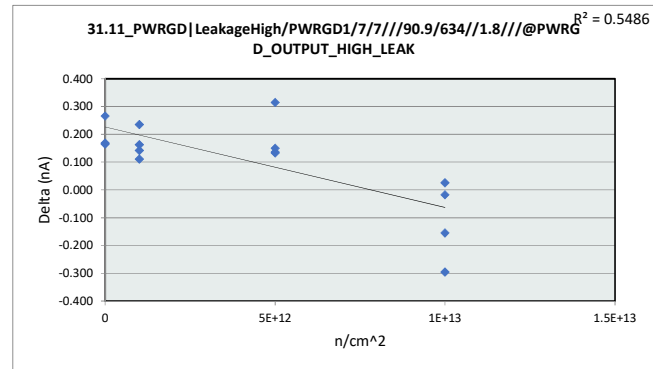


| 31.10_PWRGD FallingGood/PWRGD4/7/7///90.9/634//1.8///@VSENSE |       |       |       |       |
|--------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                    |       |       |       |       |
| Tester                                                       |       |       |       |       |
| Test Number                                                  |       |       |       |       |
| Max Limit                                                    | 1.088 | Pct   |       |       |
| Min Limit                                                    | 1.032 | Pct   |       |       |
| n/cm^2                                                       | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                           | 1.032 | 1.032 | 1.032 | 1.032 |
| Min                                                          | 1.058 | 1.060 | 1.058 | 1.057 |
| Average                                                      | 1.060 | 1.061 | 1.059 | 1.058 |
| Max                                                          | 1.062 | 1.062 | 1.060 | 1.060 |
| UL                                                           | 1.088 | 1.088 | 1.088 | 1.088 |

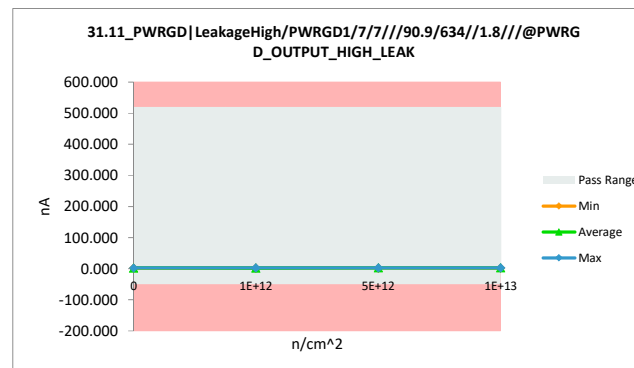


## NDD Report TPS7H4102-SP

| 31.11_PWRGD LeakageHigh/PWRGD1/7// |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | nA       |                     | nA                 |        |
| Max Limit                          | 520      |                     | 518                |        |
| Min Limit                          | -163.6   |                     | -50                |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 2.324               | 2.489              | 0.165  |
| 0                                  | 2        | 2.253               | 2.519              | 0.266  |
| 0                                  | 3        | 2.253               | 2.422              | 0.169  |
| 1E+12                              | 30       | 2.359               | 2.500              | 0.141  |
| 1E+12                              | 31       | 2.336               | 2.498              | 0.163  |
| 1E+12                              | 32       | 2.355               | 2.466              | 0.111  |
| 1E+12                              | 33       | 2.319               | 2.554              | 0.235  |
| 5E+12                              | 34       | 2.395               | 2.531              | 0.136  |
| 5E+12                              | 35       | 2.447               | 2.597              | 0.150  |
| 5E+12                              | 36       | 2.467               | 2.600              | 0.133  |
| 5E+12                              | 37       | 2.462               | 2.777              | 0.316  |
| 1E+13                              | 38       | 3.351               | 3.056              | -0.295 |
| 1E+13                              | 39       | 2.616               | 2.599              | -0.017 |
| 1E+13                              | 40       | 2.634               | 2.479              | -0.155 |
| 1E+13                              | 41       | 2.596               | 2.621              | 0.025  |
|                                    | Max      | 3.351               | 3.056              | 0.316  |
|                                    | Average  | 2.478               | 2.581              | 0.103  |
|                                    | Min      | 2.253               | 2.422              | -0.295 |
|                                    | Std Dev  | 0.271               | 0.157              | 0.159  |

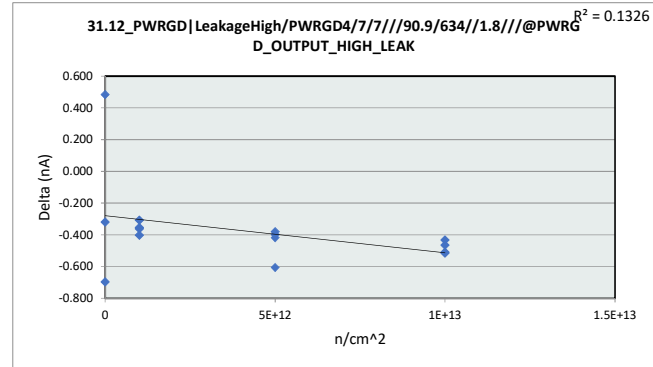


| 31.11_PWRGD LeakageHigh/PWRGD1/7/7///90.9/634//1.8///@PWRG |         |         |         |         |
|------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                  |         |         |         |         |
| Tester                                                     |         |         |         |         |
| Test Number                                                |         |         |         |         |
| Max Limit                                                  | 518     |         | nA      |         |
| Min Limit                                                  | -50     |         | nA      |         |
| n/cm^2                                                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                         | -50.000 | -50.000 | -50.000 | -50.000 |
| Min                                                        | 2.422   | 2.466   | 2.531   | 2.479   |
| Average                                                    | 2.477   | 2.505   | 2.626   | 2.689   |
| Max                                                        | 2.519   | 2.554   | 2.777   | 3.056   |
| UL                                                         | 518.000 | 518.000 | 518.000 | 518.000 |

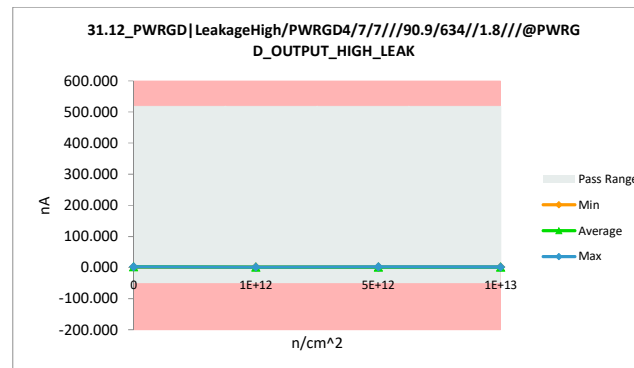


## NDD Report TPS7H4102-SP

| 31.12_PWRGD LeakageHigh/PWRGD4/7// |          |                     |                    |        |
|------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                          |          |                     |                    |        |
| Tester                             |          |                     |                    |        |
| Test Number                        |          |                     |                    |        |
| Unit                               | nA       |                     | nA                 |        |
| Max Limit                          | 520      |                     | 518                |        |
| Min Limit                          | -163.6   |                     | -50                |        |
| n/cm^2                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                  | 1        | 2.660               | 1.962              | -0.697 |
| 0                                  | 2        | 1.819               | 2.303              | 0.484  |
| 0                                  | 3        | 1.824               | 1.504              | -0.320 |
| 1E+12                              | 30       | 1.847               | 1.539              | -0.308 |
| 1E+12                              | 31       | 1.941               | 1.538              | -0.402 |
| 1E+12                              | 32       | 1.973               | 1.610              | -0.363 |
| 1E+12                              | 33       | 1.883               | 1.529              | -0.354 |
| 5E+12                              | 34       | 2.818               | 2.399              | -0.418 |
| 5E+12                              | 35       | 1.840               | 1.460              | -0.380 |
| 5E+12                              | 36       | 2.136               | 1.737              | -0.399 |
| 5E+12                              | 37       | 2.123               | 1.518              | -0.605 |
| 1E+13                              | 38       | 2.006               | 1.573              | -0.432 |
| 1E+13                              | 39       | 1.990               | 1.474              | -0.516 |
| 1E+13                              | 40       | 2.003               | 1.494              | -0.509 |
| 1E+13                              | 41       | 1.988               | 1.523              | -0.465 |
|                                    | Max      | 2.818               | 2.399              | 0.484  |
|                                    | Average  | 2.057               | 1.678              | -0.379 |
|                                    | Min      | 1.819               | 1.460              | -0.697 |
|                                    | Std Dev  | 0.295               | 0.302              | 0.261  |

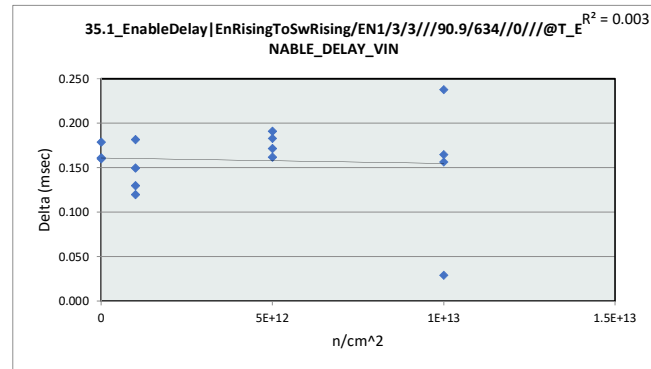


| 31.12_PWRGD LeakageHigh/P |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 518     |         | nA      |         |
| Min Limit                 | -50     |         | nA      |         |
| n/cm^2                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                        | -50.000 | -50.000 | -50.000 | -50.000 |
| Min                       | 1.504   | 1.529   | 1.460   | 1.474   |
| Average                   | 1.923   | 1.554   | 1.779   | 1.516   |
| Max                       | 2.303   | 1.610   | 2.400   | 1.573   |
| UL                        | 518.000 | 518.000 | 518.000 | 518.000 |

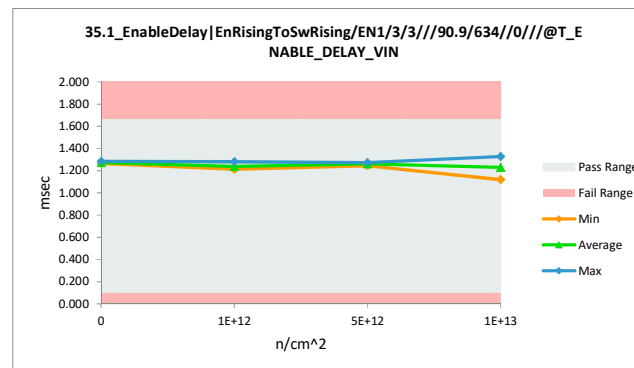


## NDD Report TPS7H4102-SP

| 35.1_EnableDelay EnRisingToSwRising/EnRisingToSwRising/EN1/3/3///90.9/634//0///@T_E |          |                     |                    |       |
|-------------------------------------------------------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                                                                           |          |                     |                    |       |
| Tester                                                                              |          |                     |                    |       |
| Test Number                                                                         |          |                     |                    |       |
| Unit                                                                                | msec     |                     | msec               |       |
| Max Limit                                                                           | 1.7      |                     | 1.66               |       |
| Min Limit                                                                           | -0.212   |                     | 0.1                |       |
| n/cm^2                                                                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                                                                   | 1        | 1.109               | 1.270              | 0.161 |
| 0                                                                                   | 2        | 1.104               | 1.264              | 0.160 |
| 0                                                                                   | 3        | 1.105               | 1.284              | 0.179 |
| 1E+12                                                                               | 30       | 1.088               | 1.218              | 0.130 |
| 1E+12                                                                               | 31       | 1.093               | 1.213              | 0.120 |
| 1E+12                                                                               | 32       | 1.091               | 1.241              | 0.150 |
| 1E+12                                                                               | 33       | 1.100               | 1.281              | 0.181 |
| 5E+12                                                                               | 34       | 1.083               | 1.266              | 0.183 |
| 5E+12                                                                               | 35       | 1.090               | 1.261              | 0.171 |
| 5E+12                                                                               | 36       | 1.083               | 1.274              | 0.191 |
| 5E+12                                                                               | 37       | 1.083               | 1.245              | 0.162 |
| 1E+13                                                                               | 38       | 1.064               | 1.220              | 0.156 |
| 1E+13                                                                               | 39       | 1.090               | 1.119              | 0.029 |
| 1E+13                                                                               | 40       | 1.090               | 1.328              | 0.238 |
| 1E+13                                                                               | 41       | 1.091               | 1.256              | 0.165 |
|                                                                                     | Max      | 1.109               | 1.328              | 0.238 |
|                                                                                     | Average  | 1.091               | 1.249              | 0.158 |
|                                                                                     | Min      | 1.064               | 1.119              | 0.029 |
|                                                                                     | Std Dev  | 0.011               | 0.046              | 0.045 |

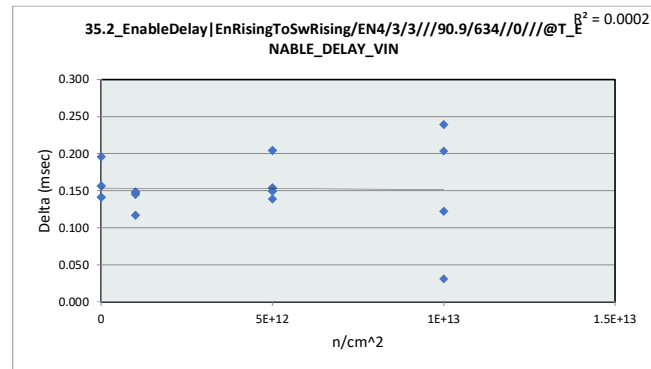


| 35.1_EnableDelay EnRisingToSwRising/EN1/3/3///90.9/634//0///@T_E |       |       |       |       |
|------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                        |       |       |       |       |
| Tester                                                           |       |       |       |       |
| Test Number                                                      |       |       |       |       |
| Max Limit                                                        | 1.66  |       | msec  |       |
| Min Limit                                                        | 0.1   |       | msec  |       |
| n/cm^2                                                           | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                               | 0.100 | 0.100 | 0.100 | 0.100 |
| Min                                                              | 1.264 | 1.213 | 1.245 | 1.119 |
| Average                                                          | 1.273 | 1.238 | 1.261 | 1.231 |
| Max                                                              | 1.284 | 1.281 | 1.274 | 1.328 |
| UL                                                               | 1.660 | 1.660 | 1.660 | 1.660 |

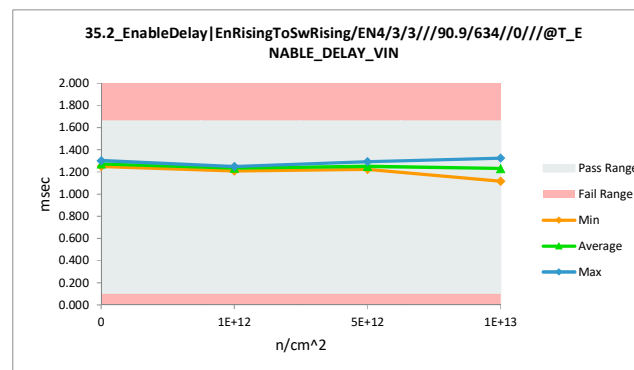


## NDD Report TPS7H4102-SP

| 35.2_EnableDelay EnRisingToSwRising/EnRisingToSwRising/EN4/3/3///90.9/634//0///@T_E |          |                     |                    |       |
|-------------------------------------------------------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                                                                           |          |                     |                    |       |
| Tester                                                                              |          |                     |                    |       |
| Test Number                                                                         |          |                     |                    |       |
| Unit                                                                                | msec     |                     | msec               |       |
| Max Limit                                                                           | 1.7      |                     | 1.66               |       |
| Min Limit                                                                           | -0.212   |                     | 0.1                |       |
| n/cm^2                                                                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                                                                   | 1        | 1.110               | 1.251              | 0.141 |
| 0                                                                                   | 2        | 1.105               | 1.261              | 0.156 |
| 0                                                                                   | 3        | 1.106               | 1.302              | 0.196 |
| 1E+12                                                                               | 30       | 1.092               | 1.240              | 0.148 |
| 1E+12                                                                               | 31       | 1.093               | 1.210              | 0.117 |
| 1E+12                                                                               | 32       | 1.093               | 1.238              | 0.145 |
| 1E+12                                                                               | 33       | 1.101               | 1.249              | 0.148 |
| 5E+12                                                                               | 34       | 1.092               | 1.246              | 0.154 |
| 5E+12                                                                               | 35       | 1.086               | 1.224              | 0.139 |
| 5E+12                                                                               | 36       | 1.088               | 1.292              | 0.204 |
| 5E+12                                                                               | 37       | 1.088               | 1.237              | 0.150 |
| 1E+13                                                                               | 38       | 1.071               | 1.193              | 0.122 |
| 1E+13                                                                               | 39       | 1.086               | 1.117              | 0.031 |
| 1E+13                                                                               | 40       | 1.086               | 1.325              | 0.239 |
| 1E+13                                                                               | 41       | 1.087               | 1.291              | 0.204 |
|                                                                                     | Max      | 1.110               | 1.325              | 0.239 |
|                                                                                     | Average  | 1.092               | 1.245              | 0.153 |
|                                                                                     | Min      | 1.071               | 1.117              | 0.031 |
|                                                                                     | Std Dev  | 0.010               | 0.050              | 0.048 |

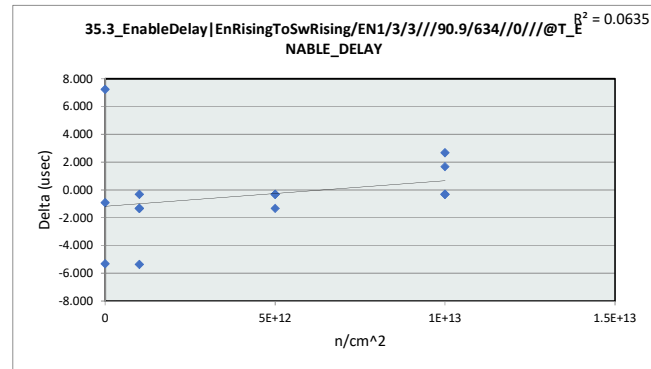


| 35.2_EnableDelay EnRisingToSwRising/EN4/3/3///90.9/634//0///@T_E |       |       |       |       |
|------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                        |       |       |       |       |
| Tester                                                           |       |       |       |       |
| Test Number                                                      |       |       |       |       |
| Max Limit                                                        | 1.66  |       | msec  |       |
| Min Limit                                                        | 0.1   |       | msec  |       |
| n/cm^2                                                           | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                               | 0.100 | 0.100 | 0.100 | 0.100 |
| Min                                                              | 1.251 | 1.210 | 1.225 | 1.117 |
| Average                                                          | 1.271 | 1.234 | 1.250 | 1.231 |
| Max                                                              | 1.302 | 1.249 | 1.292 | 1.325 |
| UL                                                               | 1.660 | 1.660 | 1.660 | 1.660 |

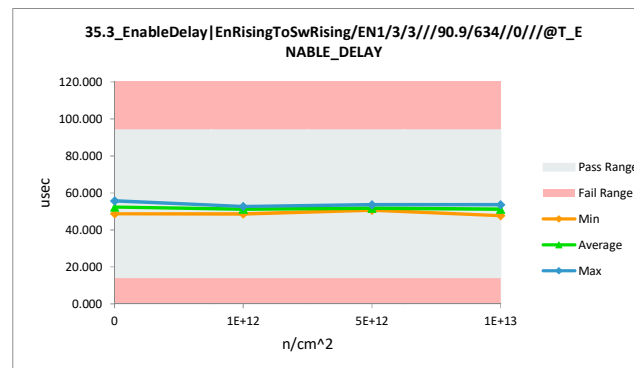


## NDD Report TPS7H4102-SP

| 35.3_EnableDelay EnRisingToSwRising/EnRisingToSwRising/EN1/3/3///90.9/634//0///@T_E |          |                     |                    |        |
|-------------------------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                                           |          |                     |                    |        |
| Tester                                                                              |          |                     |                    |        |
| Test Number                                                                         |          |                     |                    |        |
| Unit                                                                                | usec     |                     | usec               |        |
| Max Limit                                                                           | 100      |                     | 94                 |        |
| Min Limit                                                                           | -2       |                     | 14                 |        |
| n/cm^2                                                                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                                   | 1        | 48.497              | 55.720             | 7.223  |
| 0                                                                                   | 2        | 54.043              | 48.721             | -5.321 |
| 0                                                                                   | 3        | 53.649              | 52.720             | -0.929 |
| 1E+12                                                                               | 30       | 54.048              | 48.675             | -5.373 |
| 1E+12                                                                               | 31       | 54.046              | 52.721             | -1.325 |
| 1E+12                                                                               | 32       | 54.048              | 52.720             | -1.328 |
| 1E+12                                                                               | 33       | 51.044              | 50.722             | -0.323 |
| 5E+12                                                                               | 34       | 51.048              | 50.722             | -0.325 |
| 5E+12                                                                               | 35       | 54.049              | 53.720             | -0.329 |
| 5E+12                                                                               | 36       | 52.046              | 51.719             | -0.328 |
| 5E+12                                                                               | 37       | 52.048              | 50.719             | -1.329 |
| 1E+13                                                                               | 38       | 48.050              | 47.721             | -0.329 |
| 1E+13                                                                               | 39       | 51.045              | 53.720             | 2.674  |
| 1E+13                                                                               | 40       | 51.048              | 52.720             | 1.672  |
| 1E+13                                                                               | 41       | 51.045              | 50.719             | -0.326 |
|                                                                                     | Max      | 54.049              | 55.720             | 7.223  |
|                                                                                     | Average  | 51.984              | 51.584             | -0.400 |
|                                                                                     | Min      | 48.050              | 47.721             | -5.373 |
|                                                                                     | Std Dev  | 2.002               | 2.171              | 2.972  |

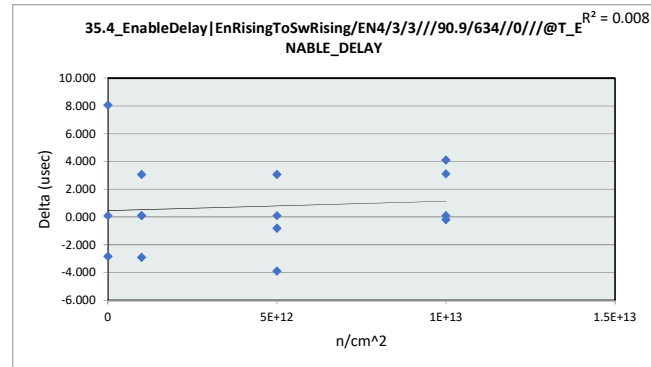


| 35.3_EnableDelay EnRisingToSwRising/EN1/3/3///90.9/634//0///@T_E |        |        |        |        |
|------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                        |        |        |        |        |
| Tester                                                           |        |        |        |        |
| Test Number                                                      |        |        |        |        |
| Max Limit                                                        | 94     |        | usec   |        |
| Min Limit                                                        | 14     |        | usec   |        |
| n/cm^2                                                           | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                               | 14.000 | 14.000 | 14.000 | 14.000 |
| Min                                                              | 48.721 | 48.675 | 50.719 | 47.721 |
| Average                                                          | 52.387 | 51.209 | 51.720 | 51.220 |
| Max                                                              | 55.720 | 52.721 | 53.720 | 53.720 |
| UL                                                               | 94.000 | 94.000 | 94.000 | 94.000 |

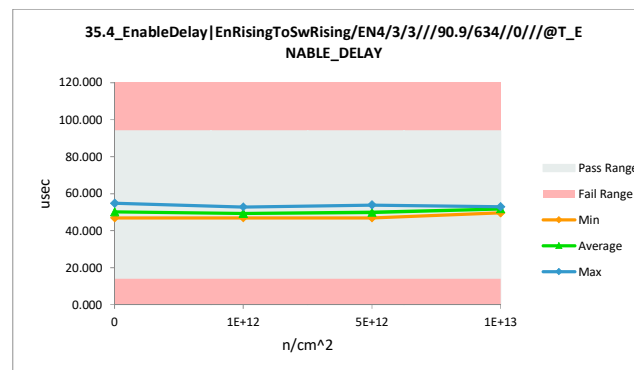


## NDD Report TPS7H4102-SP

| 35.4_EnableDelay EnRisingToSwRising/EnRisingToSwRising/EN4/3/3///90.9/634//0///@T_E |          |                     |                    |        |
|-------------------------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                                           |          |                     |                    |        |
| Tester                                                                              |          |                     |                    |        |
| Test Number                                                                         |          |                     |                    |        |
| Unit                                                                                | usec     |                     | usec               |        |
| Max Limit                                                                           | 100      |                     | 94                 |        |
| Min Limit                                                                           | -2       |                     | 14                 |        |
| n/cm^2                                                                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                                   | 1        | 46.775              | 54.835             | 8.060  |
| 0                                                                                   | 2        | 49.718              | 46.872             | -2.846 |
| 0                                                                                   | 3        | 48.776              | 48.872             | 0.096  |
| 1E+12                                                                               | 30       | 49.778              | 46.870             | -2.908 |
| 1E+12                                                                               | 31       | 48.776              | 48.870             | 0.094  |
| 1E+12                                                                               | 32       | 48.774              | 48.871             | 0.097  |
| 1E+12                                                                               | 33       | 49.775              | 52.833             | 3.057  |
| 5E+12                                                                               | 34       | 49.775              | 48.970             | -0.804 |
| 5E+12                                                                               | 35       | 49.775              | 49.870             | 0.095  |
| 5E+12                                                                               | 36       | 50.776              | 53.838             | 3.061  |
| 5E+12                                                                               | 37       | 50.775              | 46.872             | -3.903 |
| 1E+13                                                                               | 38       | 52.774              | 52.871             | 0.097  |
| 1E+13                                                                               | 39       | 48.775              | 52.870             | 4.095  |
| 1E+13                                                                               | 40       | 48.775              | 51.868             | 3.093  |
| 1E+13                                                                               | 41       | 49.814              | 49.615             | -0.199 |
|                                                                                     | Max      | 52.774              | 54.835             | 8.060  |
|                                                                                     | Average  | 49.574              | 50.320             | 0.746  |
|                                                                                     | Min      | 46.775              | 46.870             | -3.903 |
|                                                                                     | Std Dev  | 1.320               | 2.659              | 3.096  |

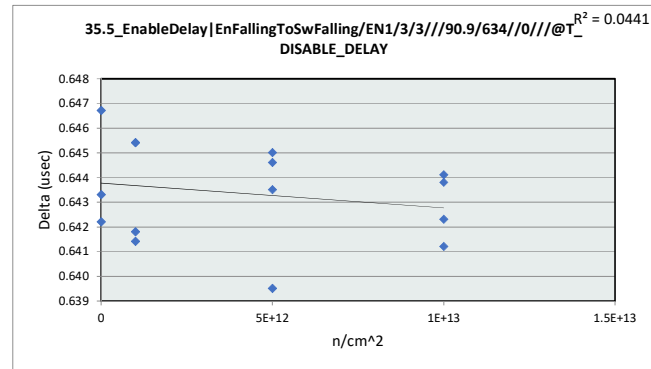


| 35.4_EnableDelay EnRisingToSwRising/EN4/3/3///90.9/634//0///@T_E |        |        |        |        |
|------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                        |        |        |        |        |
| Tester                                                           |        |        |        |        |
| Test Number                                                      |        |        |        |        |
| Max Limit                                                        | 94     |        | usec   |        |
| Min Limit                                                        | 14     |        | usec   |        |
| n/cm^2                                                           | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                               | 14.000 | 14.000 | 14.000 | 14.000 |
| Min                                                              | 46.872 | 46.870 | 46.872 | 49.615 |
| Average                                                          | 50.193 | 49.361 | 49.888 | 51.806 |
| Max                                                              | 54.835 | 52.833 | 53.838 | 52.871 |
| UL                                                               | 94.000 | 94.000 | 94.000 | 94.000 |

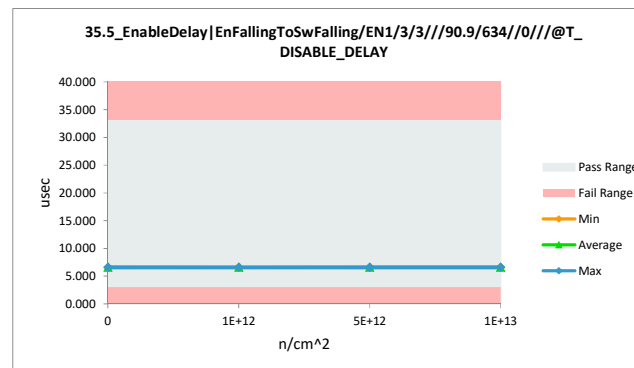


## NDD Report TPS7H4102-SP

| 35.5_EnableDelay EnFallingToSwFalling/EN1/3/3///90.9/634//0///@T_ |          |                     |                    |       |
|-------------------------------------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                                                         |          |                     |                    |       |
| Tester                                                            |          |                     |                    |       |
| Test Number                                                       |          |                     |                    |       |
| Unit                                                              | usec     |                     | usec               |       |
| Max Limit                                                         | 35       |                     | 33                 |       |
| Min Limit                                                         | -3       |                     | 3                  |       |
| n/cm^2                                                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                                                 | 1        | 5.933               | 6.575              | 0.642 |
| 0                                                                 | 2        | 5.934               | 6.577              | 0.643 |
| 0                                                                 | 3        | 5.931               | 6.578              | 0.647 |
| 1E+12                                                             | 30       | 5.931               | 6.576              | 0.645 |
| 1E+12                                                             | 31       | 5.935               | 6.576              | 0.642 |
| 1E+12                                                             | 32       | 5.932               | 6.574              | 0.641 |
| 1E+12                                                             | 33       | 5.932               | 6.578              | 0.645 |
| 5E+12                                                             | 34       | 5.931               | 6.576              | 0.645 |
| 5E+12                                                             | 35       | 5.931               | 6.576              | 0.645 |
| 5E+12                                                             | 36       | 5.935               | 6.574              | 0.639 |
| 5E+12                                                             | 37       | 5.934               | 6.578              | 0.643 |
| 1E+13                                                             | 38       | 5.931               | 6.575              | 0.644 |
| 1E+13                                                             | 39       | 5.936               | 6.580              | 0.644 |
| 1E+13                                                             | 40       | 5.933               | 6.575              | 0.642 |
| 1E+13                                                             | 41       | 5.935               | 6.576              | 0.641 |
|                                                                   | Max      | 5.936               | 6.580              | 0.647 |
|                                                                   | Average  | 5.933               | 6.576              | 0.643 |
|                                                                   | Min      | 5.931               | 6.574              | 0.639 |
|                                                                   | Std Dev  | 0.002               | 0.002              | 0.002 |



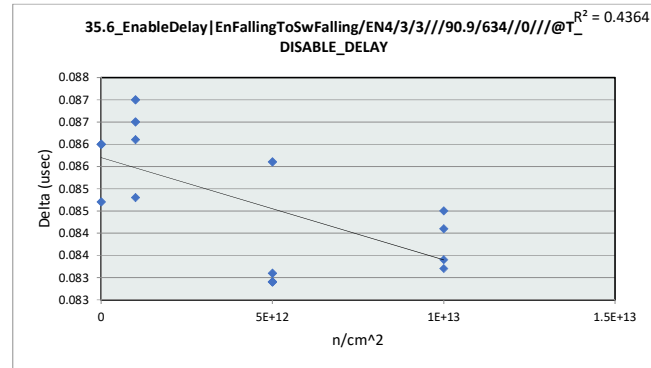
| 35.5_EnableDelay EnFallingToSwFalling/EN1/3/3///90.9/634//0///@T_ |        |        |        |        |
|-------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                         |        |        |        |        |
| Tester                                                            |        |        |        |        |
| Test Number                                                       |        |        |        |        |
| Max Limit                                                         | 33     |        | usec   |        |
| Min Limit                                                         | 3      |        | usec   |        |
| n/cm^2                                                            | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                                | 3.000  | 3.000  | 3.000  | 3.000  |
| Min                                                               | 6.575  | 6.574  | 6.574  | 6.575  |
| Average                                                           | 6.577  | 6.576  | 6.576  | 6.576  |
| Max                                                               | 6.578  | 6.578  | 6.578  | 6.580  |
| UL                                                                | 33.000 | 33.000 | 33.000 | 33.000 |



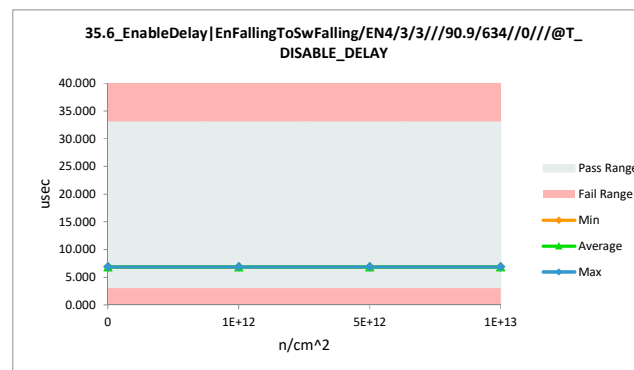


## NDD Report TPS7H4102-SP

| 35.6_EnableDelay EnFallingToSwFalling/EN4/3/3///90.9/634//0///@T_ |          |                     |                    |       |
|-------------------------------------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                                                         |          |                     |                    |       |
| Tester                                                            |          |                     |                    |       |
| Test Number                                                       |          |                     |                    |       |
| Unit                                                              | usec     |                     | usec               |       |
| Max Limit                                                         | 35       |                     | 33                 |       |
| Min Limit                                                         | -3       |                     | 3                  |       |
| n/cm^2                                                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                                                 | 1        | 6.763               | 6.847              | 0.085 |
| 0                                                                 | 2        | 6.760               | 6.846              | 0.086 |
| 0                                                                 | 3        | 6.760               | 6.846              | 0.086 |
| 1E+12                                                             | 30       | 6.764               | 6.851              | 0.087 |
| 1E+12                                                             | 31       | 6.760               | 6.846              | 0.086 |
| 1E+12                                                             | 32       | 6.761               | 6.846              | 0.085 |
| 1E+12                                                             | 33       | 6.760               | 6.846              | 0.086 |
| 5E+12                                                             | 34       | 6.760               | 6.846              | 0.086 |
| 5E+12                                                             | 35       | 6.762               | 6.845              | 0.083 |
| 5E+12                                                             | 36       | 6.764               | 6.847              | 0.083 |
| 5E+12                                                             | 37       | 6.764               | 6.847              | 0.083 |
| 1E+13                                                             | 38       | 6.760               | 6.844              | 0.084 |
| 1E+13                                                             | 39       | 6.764               | 6.849              | 0.084 |
| 1E+13                                                             | 40       | 6.763               | 6.846              | 0.083 |
| 1E+13                                                             | 41       | 6.763               | 6.847              | 0.083 |
|                                                                   | Max      | 6.764               | 6.851              | 0.087 |
|                                                                   | Average  | 6.762               | 6.847              | 0.085 |
|                                                                   | Min      | 6.760               | 6.844              | 0.083 |
|                                                                   | Std Dev  | 0.002               | 0.002              | 0.001 |

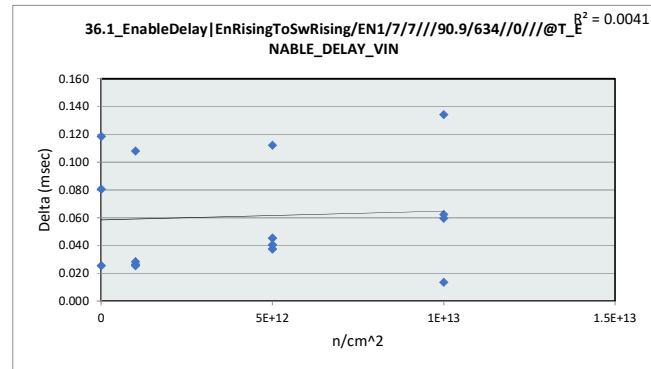


| 35.6_EnableDelay EnFallingToSwFalling/EN4/3/3///90.9/634//0///@T_ |        |        |        |        |
|-------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                         |        |        |        |        |
| Tester                                                            |        |        |        |        |
| Test Number                                                       |        |        |        |        |
| Max Limit                                                         | 33     |        | usec   |        |
| Min Limit                                                         | 3      |        | usec   |        |
| n/cm^2                                                            | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                                | 3.000  | 3.000  | 3.000  | 3.000  |
| Min                                                               | 6.846  | 6.846  | 6.845  | 6.844  |
| Average                                                           | 6.847  | 6.847  | 6.846  | 6.846  |
| Max                                                               | 6.847  | 6.851  | 6.847  | 6.849  |
| UL                                                                | 33.000 | 33.000 | 33.000 | 33.000 |

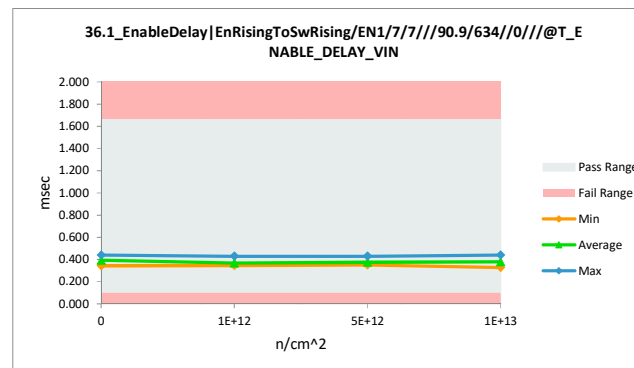


## NDD Report TPS7H4102-SP

| 36.1_EnableDelay EnRisingToSwRising/EnRisingToSwRising/EN1/7/7///90.9/634//0///@T_E |          |                     |                    |       |
|-------------------------------------------------------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                                                                           |          |                     |                    |       |
| Tester                                                                              |          |                     |                    |       |
| Test Number                                                                         |          |                     |                    |       |
| Unit                                                                                | msec     |                     | msec               |       |
| Max Limit                                                                           | 1.7      |                     | 1.66               |       |
| Min Limit                                                                           | -0.212   |                     | 0.1                |       |
| n/cm^2                                                                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                                                                   | 1        | 0.322               | 0.440              | 0.118 |
| 0                                                                                   | 2        | 0.318               | 0.398              | 0.080 |
| 0                                                                                   | 3        | 0.318               | 0.343              | 0.025 |
| 1E+12                                                                               | 30       | 0.325               | 0.351              | 0.026 |
| 1E+12                                                                               | 31       | 0.321               | 0.429              | 0.108 |
| 1E+12                                                                               | 32       | 0.321               | 0.346              | 0.025 |
| 1E+12                                                                               | 33       | 0.318               | 0.346              | 0.028 |
| 5E+12                                                                               | 34       | 0.311               | 0.351              | 0.040 |
| 5E+12                                                                               | 35       | 0.321               | 0.358              | 0.037 |
| 5E+12                                                                               | 36       | 0.318               | 0.363              | 0.045 |
| 5E+12                                                                               | 37       | 0.318               | 0.430              | 0.112 |
| 1E+13                                                                               | 38       | 0.306               | 0.440              | 0.134 |
| 1E+13                                                                               | 39       | 0.314               | 0.373              | 0.059 |
| 1E+13                                                                               | 40       | 0.314               | 0.376              | 0.062 |
| 1E+13                                                                               | 41       | 0.314               | 0.327              | 0.013 |
|                                                                                     | Max      | 0.325               | 0.440              | 0.134 |
|                                                                                     | Average  | 0.317               | 0.378              | 0.061 |
|                                                                                     | Min      | 0.306               | 0.327              | 0.013 |
|                                                                                     | Std Dev  | 0.005               | 0.039              | 0.040 |

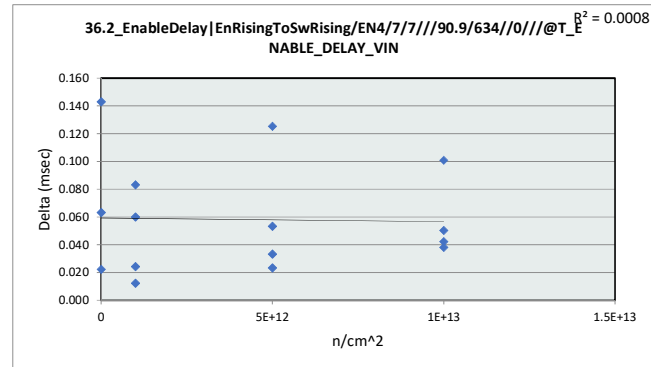


| 36.1_EnableDelay EnRisingToSwRising/EN1/7/7///90.9/634//0///@T_E |       |       |       |       |
|------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                        |       |       |       |       |
| Tester                                                           |       |       |       |       |
| Test Number                                                      |       |       |       |       |
| Max Limit                                                        | 1.66  |       | msec  |       |
| Min Limit                                                        | 0.1   |       | msec  |       |
| n/cm^2                                                           | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                               | 0.100 | 0.100 | 0.100 | 0.100 |
| Min                                                              | 0.343 | 0.346 | 0.351 | 0.327 |
| Average                                                          | 0.394 | 0.368 | 0.376 | 0.379 |
| Max                                                              | 0.440 | 0.429 | 0.430 | 0.440 |
| UL                                                               | 1.660 | 1.660 | 1.660 | 1.660 |

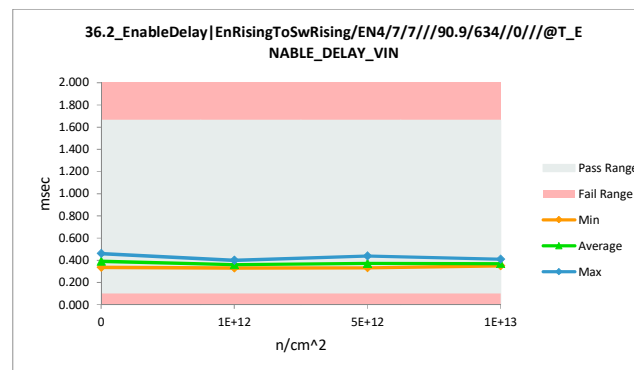


## NDD Report TPS7H4102-SP

| 36.2_EnableDelay EnRisingToSwRising/EnRisingToSwRising/EN4/7/7///90.9/634//0///@T_E |          |                     |                    |       |
|-------------------------------------------------------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                                                                           |          |                     |                    |       |
| Tester                                                                              |          |                     |                    |       |
| Test Number                                                                         |          |                     |                    |       |
| Unit                                                                                | msec     |                     | msec               |       |
| Max Limit                                                                           | 1.7      |                     | 1.66               |       |
| Min Limit                                                                           | -0.212   |                     | 0.1                |       |
| n/cm^2                                                                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                                                                   | 1        | 0.317               | 0.460              | 0.143 |
| 0                                                                                   | 2        | 0.313               | 0.377              | 0.063 |
| 0                                                                                   | 3        | 0.313               | 0.336              | 0.022 |
| 1E+12                                                                               | 30       | 0.319               | 0.331              | 0.012 |
| 1E+12                                                                               | 31       | 0.317               | 0.341              | 0.024 |
| 1E+12                                                                               | 32       | 0.317               | 0.376              | 0.060 |
| 1E+12                                                                               | 33       | 0.317               | 0.400              | 0.083 |
| 5E+12                                                                               | 34       | 0.310               | 0.333              | 0.023 |
| 5E+12                                                                               | 35       | 0.317               | 0.351              | 0.033 |
| 5E+12                                                                               | 36       | 0.313               | 0.367              | 0.053 |
| 5E+12                                                                               | 37       | 0.313               | 0.439              | 0.125 |
| 1E+13                                                                               | 38       | 0.310               | 0.410              | 0.101 |
| 1E+13                                                                               | 39       | 0.313               | 0.355              | 0.042 |
| 1E+13                                                                               | 40       | 0.313               | 0.350              | 0.038 |
| 1E+13                                                                               | 41       | 0.313               | 0.363              | 0.050 |
|                                                                                     | Max      | 0.319               | 0.460              | 0.143 |
|                                                                                     | Average  | 0.314               | 0.372              | 0.058 |
|                                                                                     | Min      | 0.310               | 0.331              | 0.012 |
|                                                                                     | Std Dev  | 0.003               | 0.039              | 0.039 |

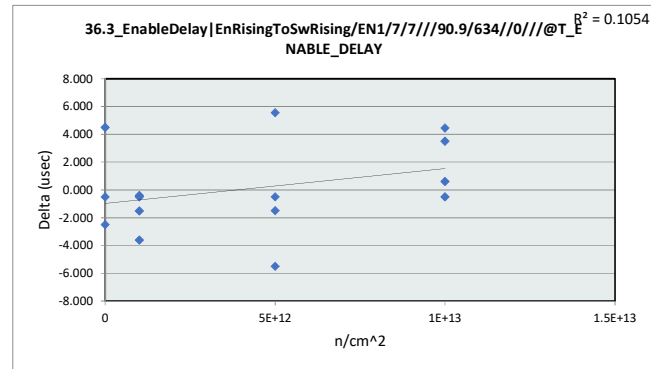


| 36.2_EnableDelay EnRisingToSwRising/EN4/7/7///90.9/634//0///@T_E |       |       |       |       |
|------------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                        |       |       |       |       |
| Tester                                                           |       |       |       |       |
| Test Number                                                      |       |       |       |       |
| Max Limit                                                        | 1.66  |       | msec  |       |
| Min Limit                                                        | 0.1   |       | msec  |       |
| n/cm^2                                                           | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                               | 0.100 | 0.100 | 0.100 | 0.100 |
| Min                                                              | 0.336 | 0.331 | 0.333 | 0.351 |
| Average                                                          | 0.391 | 0.362 | 0.372 | 0.369 |
| Max                                                              | 0.460 | 0.400 | 0.439 | 0.410 |
| UL                                                               | 1.660 | 1.660 | 1.660 | 1.660 |

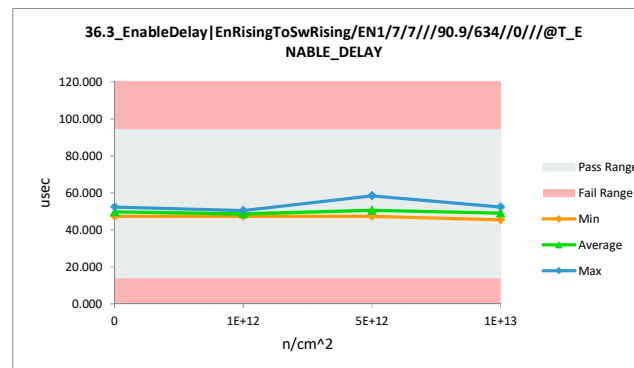


## NDD Report TPS7H4102-SP

| 36.3_EnableDelay EnRisingToSwRising/EnRisingToSwRising/EN1/7/7///90.9/634//0///@T_E |          |                     |                    |        |
|-------------------------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                                           |          |                     |                    |        |
| Tester                                                                              |          |                     |                    |        |
| Test Number                                                                         |          |                     |                    |        |
| Unit                                                                                | usec     |                     | usec               |        |
| Max Limit                                                                           | 100      |                     | 94                 |        |
| Min Limit                                                                           | -2       |                     | 14                 |        |
| n/cm^2                                                                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                                   | 1        | 47.881              | 52.366             | 4.485  |
| 0                                                                                   | 2        | 49.880              | 47.369             | -2.511 |
| 0                                                                                   | 3        | 49.881              | 49.367             | -0.514 |
| 1E+12                                                                               | 30       | 50.994              | 47.369             | -3.624 |
| 1E+12                                                                               | 31       | 50.882              | 50.480             | -0.402 |
| 1E+12                                                                               | 32       | 50.883              | 49.368             | -1.515 |
| 1E+12                                                                               | 33       | 47.882              | 47.369             | -0.513 |
| 5E+12                                                                               | 34       | 48.883              | 47.372             | -1.511 |
| 5E+12                                                                               | 35       | 49.882              | 49.371             | -0.512 |
| 5E+12                                                                               | 36       | 52.881              | 58.431             | 5.550  |
| 5E+12                                                                               | 37       | 52.880              | 47.370             | -5.510 |
| 1E+13                                                                               | 38       | 44.883              | 45.483             | 0.599  |
| 1E+13                                                                               | 39       | 47.883              | 51.370             | 3.487  |
| 1E+13                                                                               | 40       | 47.881              | 52.334             | 4.453  |
| 1E+13                                                                               | 41       | 47.882              | 47.371             | -0.512 |
|                                                                                     | Max      | 52.881              | 58.431             | 5.550  |
|                                                                                     | Average  | 49.423              | 49.519             | 0.097  |
|                                                                                     | Min      | 44.883              | 45.483             | -5.510 |
|                                                                                     | Std Dev  | 2.139               | 3.206              | 3.148  |

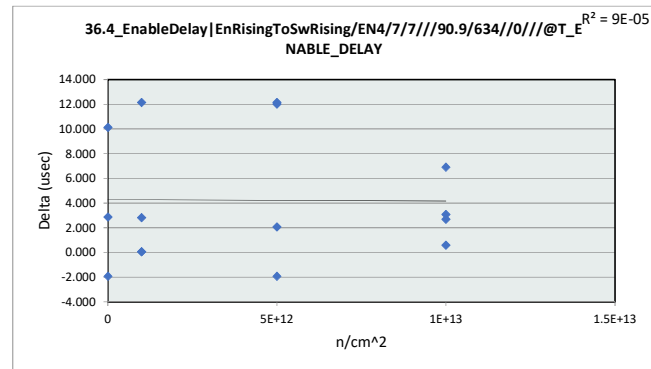


| 36.3_EnableDelay EnRisingToSwRising/EN1/7/7///90.9/634//0///@T_E |        |        |        |        |
|------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                        |        |        |        |        |
| Tester                                                           |        |        |        |        |
| Test Number                                                      |        |        |        |        |
| Max Limit                                                        | 94     |        | usec   |        |
| Min Limit                                                        | 14     |        | usec   |        |
| n/cm^2                                                           | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                               | 14.000 | 14.000 | 14.000 | 14.000 |
| Min                                                              | 47.370 | 47.370 | 47.370 | 45.483 |
| Average                                                          | 49.701 | 48.647 | 50.636 | 49.140 |
| Max                                                              | 52.366 | 50.480 | 58.431 | 52.335 |
| UL                                                               | 94.000 | 94.000 | 94.000 | 94.000 |

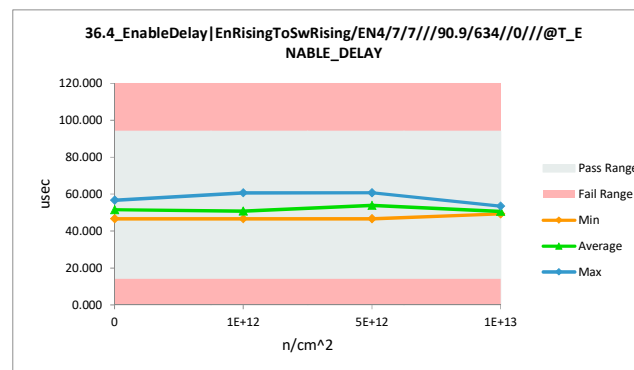


## NDD Report TPS7H4102-SP

| 36.4_EnableDelay EnRisingToSwRising/EnRisingToSwRising/EN4/7/7///90.9/634//0///@T_E |          |                     |                    |        |
|-------------------------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                                           |          |                     |                    |        |
| Tester                                                                              |          |                     |                    |        |
| Test Number                                                                         |          |                     |                    |        |
| Unit                                                                                | usec     |                     | usec               |        |
| Max Limit                                                                           | 100      |                     | 94                 |        |
| Min Limit                                                                           | -2       |                     | 14                 |        |
| n/cm^2                                                                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                                   | 1        | 46.578              | 56.700             | 10.122 |
| 0                                                                                   | 2        | 48.579              | 46.625             | -1.954 |
| 0                                                                                   | 3        | 48.578              | 51.427             | 2.849  |
| 1E+12                                                                               | 30       | 46.579              | 49.385             | 2.805  |
| 1E+12                                                                               | 31       | 46.578              | 46.622             | 0.044  |
| 1E+12                                                                               | 32       | 46.577              | 46.625             | 0.047  |
| 1E+12                                                                               | 33       | 48.576              | 60.691             | 12.115 |
| 5E+12                                                                               | 34       | 46.576              | 48.630             | 2.054  |
| 5E+12                                                                               | 35       | 48.576              | 60.698             | 12.122 |
| 5E+12                                                                               | 36       | 47.575              | 59.575             | 12.000 |
| 5E+12                                                                               | 37       | 48.575              | 46.625             | -1.949 |
| 1E+13                                                                               | 38       | 49.574              | 50.143             | 0.569  |
| 1E+13                                                                               | 39       | 46.576              | 49.632             | 3.056  |
| 1E+13                                                                               | 40       | 46.576              | 53.462             | 6.885  |
| 1E+13                                                                               | 41       | 46.575              | 49.252             | 2.677  |
|                                                                                     | Max      | 49.574              | 60.698             | 12.122 |
|                                                                                     | Average  | 47.510              | 51.740             | 4.230  |
|                                                                                     | Min      | 46.575              | 46.622             | -1.954 |
|                                                                                     | Std Dev  | 1.099               | 5.227              | 5.098  |

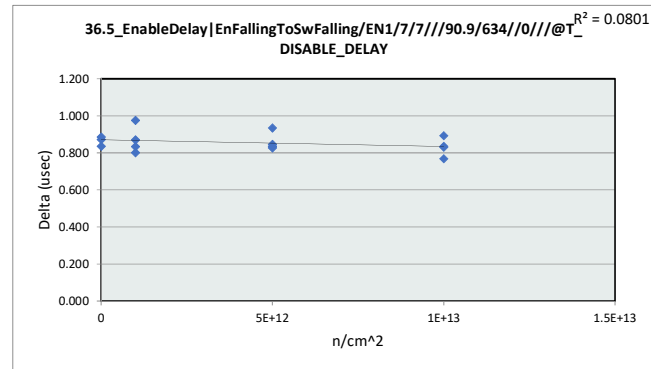


| 36.4_EnableDelay EnRisingToSwRising/EN4/7/7///90.9/634//0///@T_E |        |        |        |        |
|------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                        |        |        |        |        |
| Tester                                                           |        |        |        |        |
| Test Number                                                      |        |        |        |        |
| Max Limit                                                        | 94     |        | usec   |        |
| Min Limit                                                        | 14     |        | usec   |        |
| n/cm^2                                                           | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                               | 14.000 | 14.000 | 14.000 | 14.000 |
| Min                                                              | 46.626 | 46.622 | 46.626 | 49.252 |
| Average                                                          | 51.584 | 50.831 | 53.882 | 50.622 |
| Max                                                              | 56.700 | 60.691 | 60.698 | 53.462 |
| UL                                                               | 94.000 | 94.000 | 94.000 | 94.000 |

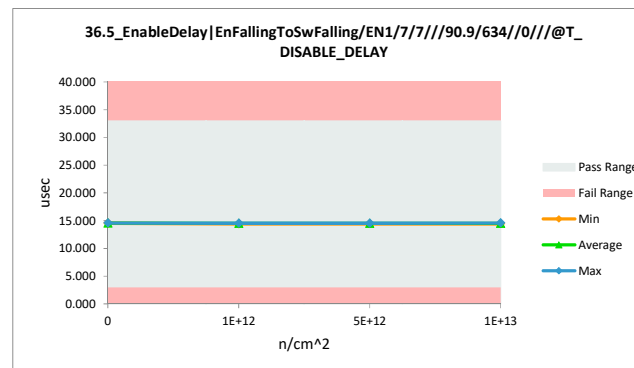


## NDD Report TPS7H4102-SP

| 36.5_EnableDelay EnFallingToSwFalling/EN1/7/7///90.9/634//0///@T_ |          |                     |                    |       |
|-------------------------------------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                                                         |          |                     |                    |       |
| Tester                                                            |          |                     |                    |       |
| Test Number                                                       |          |                     |                    |       |
| Unit                                                              | usec     |                     | usec               |       |
| Max Limit                                                         | 35       |                     | 33                 |       |
| Min Limit                                                         | -3       |                     | 3                  |       |
| n/cm^2                                                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                                                 | 1        | 13.700              | 14.533             | 0.833 |
| 0                                                                 | 2        | 13.690              | 14.561             | 0.871 |
| 0                                                                 | 3        | 13.681              | 14.566             | 0.885 |
| 1E+12                                                             | 30       | 13.679              | 14.478             | 0.799 |
| 1E+12                                                             | 31       | 13.571              | 14.545             | 0.974 |
| 1E+12                                                             | 32       | 13.571              | 14.404             | 0.833 |
| 1E+12                                                             | 33       | 13.687              | 14.557             | 0.870 |
| 5E+12                                                             | 34       | 13.681              | 14.525             | 0.844 |
| 5E+12                                                             | 35       | 13.660              | 14.494             | 0.835 |
| 5E+12                                                             | 36       | 13.613              | 14.439             | 0.825 |
| 5E+12                                                             | 37       | 13.614              | 14.548             | 0.934 |
| 1E+13                                                             | 38       | 13.648              | 14.477             | 0.829 |
| 1E+13                                                             | 39       | 13.676              | 14.568             | 0.892 |
| 1E+13                                                             | 40       | 13.682              | 14.450             | 0.767 |
| 1E+13                                                             | 41       | 13.671              | 14.505             | 0.834 |
|                                                                   | Max      | 13.700              | 14.568             | 0.974 |
|                                                                   | Average  | 13.655              | 14.510             | 0.855 |
|                                                                   | Min      | 13.571              | 14.404             | 0.767 |
|                                                                   | Std Dev  | 0.042               | 0.051              | 0.052 |

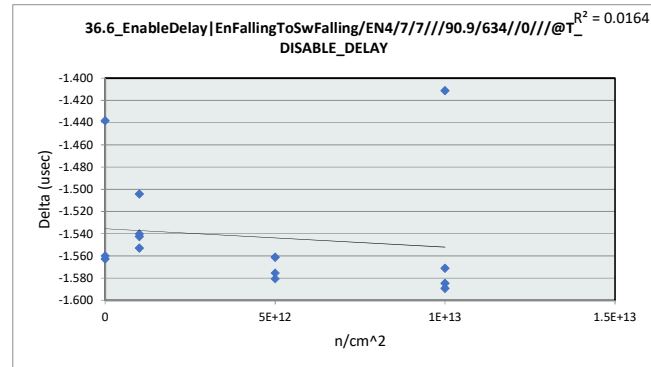


| 36.5_EnableDelay EnFallingToSwFalling/EN1/7/7///90.9/634//0///@T_ |        |        |        |        |
|-------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                         |        |        |        |        |
| Tester                                                            |        |        |        |        |
| Test Number                                                       |        |        |        |        |
| Max Limit                                                         | 33     |        | usec   |        |
| Min Limit                                                         | 3      |        | usec   |        |
| n/cm^2                                                            | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                                | 3.000  | 3.000  | 3.000  | 3.000  |
| Min                                                               | 14.533 | 14.404 | 14.439 | 14.450 |
| Average                                                           | 14.553 | 14.496 | 14.502 | 14.500 |
| Max                                                               | 14.566 | 14.557 | 14.548 | 14.568 |
| UL                                                                | 33.000 | 33.000 | 33.000 | 33.000 |

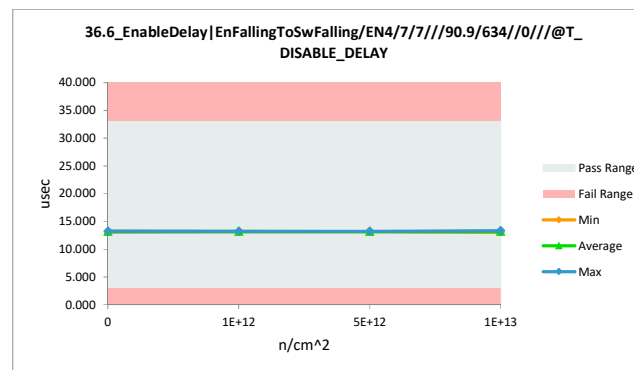


## NDD Report TPS7H4102-SP

| 36.6_EnableDelay EnFallingToSwFalling/EN4/7/7///90.9/634//0///@T_ |          |                     |                    |        |
|-------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                         |          |                     |                    |        |
| Tester                                                            |          |                     |                    |        |
| Test Number                                                       |          |                     |                    |        |
| Unit                                                              | usec     |                     | usec               |        |
| Max Limit                                                         | 35       |                     | 33                 |        |
| Min Limit                                                         | -3       |                     | 3                  |        |
| n/cm^2                                                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                 | 1        | 14.786              | 13.223             | -1.563 |
| 0                                                                 | 2        | 14.671              | 13.232             | -1.439 |
| 0                                                                 | 3        | 14.668              | 13.108             | -1.560 |
| 1E+12                                                             | 30       | 14.761              | 13.221             | -1.540 |
| 1E+12                                                             | 31       | 14.702              | 13.198             | -1.505 |
| 1E+12                                                             | 32       | 14.699              | 13.156             | -1.543 |
| 1E+12                                                             | 33       | 14.725              | 13.172             | -1.553 |
| 5E+12                                                             | 34       | 14.699              | 13.137             | -1.561 |
| 5E+12                                                             | 35       | 14.779              | 13.203             | -1.576 |
| 5E+12                                                             | 36       | 14.733              | 13.172             | -1.562 |
| 5E+12                                                             | 37       | 14.733              | 13.152             | -1.581 |
| 1E+13                                                             | 38       | 14.663              | 13.078             | -1.585 |
| 1E+13                                                             | 39       | 14.729              | 13.318             | -1.411 |
| 1E+13                                                             | 40       | 14.734              | 13.145             | -1.590 |
| 1E+13                                                             | 41       | 14.733              | 13.161             | -1.571 |
|                                                                   | Max      | 14.786              | 13.318             | -1.411 |
|                                                                   | Average  | 14.721              | 13.178             | -1.543 |
|                                                                   | Min      | 14.663              | 13.078             | -1.590 |
|                                                                   | Std Dev  | 0.038               | 0.058              | 0.052  |

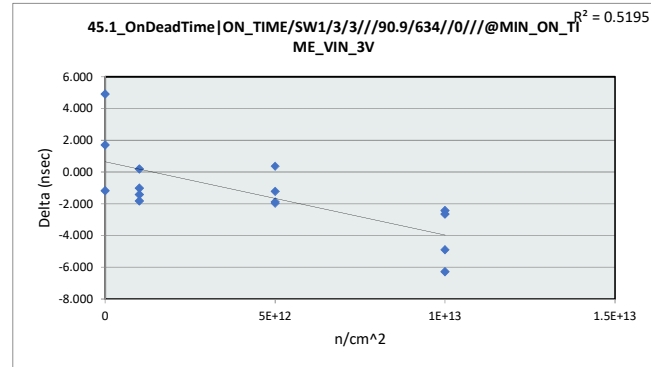


| 36.6_EnableDelay EnFallingToSwFalling/EN4/7/7///90.9/634//0///@T_ |        |        |        |        |
|-------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                         |        |        |        |        |
| Tester                                                            |        |        |        |        |
| Test Number                                                       |        |        |        |        |
| Max Limit                                                         | 33     | usec   |        |        |
| Min Limit                                                         | 3      | usec   |        |        |
| n/cm^2                                                            | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                                | 3.000  | 3.000  | 3.000  | 3.000  |
| Min                                                               | 13.108 | 13.156 | 13.137 | 13.078 |
| Average                                                           | 13.188 | 13.187 | 13.166 | 13.175 |
| Max                                                               | 13.232 | 13.221 | 13.203 | 13.318 |
| UL                                                                | 33.000 | 33.000 | 33.000 | 33.000 |

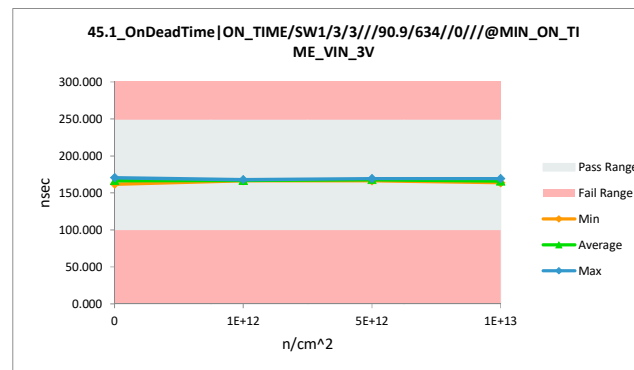


## NDD Report TPS7H4102-SP

| 45.1_OnDeadTime ON_TIME/SW1/3/3// |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | nsec     | nsec                |                    |        |
| Max Limit                         | 260      | 248                 |                    |        |
| Min Limit                         | 70.4     | 100                 |                    |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 168.761             | 170.454            | 1.693  |
| 0                                 | 2        | 162.676             | 167.579            | 4.903  |
| 0                                 | 3        | 162.940             | 161.747            | -1.193 |
| 1E+12                             | 30       | 167.168             | 167.350            | 0.182  |
| 1E+12                             | 31       | 168.077             | 166.238            | -1.840 |
| 1E+12                             | 32       | 168.018             | 166.576            | -1.442 |
| 1E+12                             | 33       | 168.928             | 167.900            | -1.028 |
| 5E+12                             | 34       | 168.733             | 167.499            | -1.234 |
| 5E+12                             | 35       | 171.135             | 169.235            | -1.900 |
| 5E+12                             | 36       | 168.273             | 166.290            | -1.984 |
| 5E+12                             | 37       | 168.047             | 168.393            | 0.346  |
| 1E+13                             | 38       | 166.463             | 163.798            | -2.664 |
| 1E+13                             | 39       | 171.338             | 165.039            | -6.299 |
| 1E+13                             | 40       | 171.468             | 166.561            | -4.907 |
| 1E+13                             | 41       | 171.783             | 169.339            | -2.444 |
|                                   | Max      | 171.783             | 170.454            | 4.903  |
|                                   | Average  | 168.254             | 166.933            | -1.321 |
|                                   | Min      | 162.676             | 161.747            | -6.299 |
|                                   | Std Dev  | 2.744               | 2.219              | 2.601  |



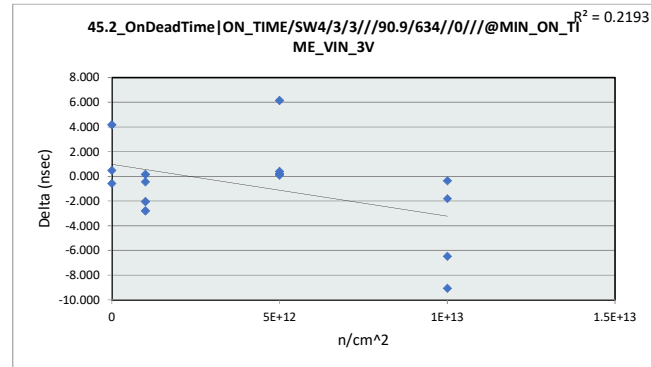
| 45.1_OnDeadTime ON_TIME/SW1/3/3// |         |         |         |         |
|-----------------------------------|---------|---------|---------|---------|
| Test Site                         |         |         |         |         |
| Tester                            |         |         |         |         |
| Test Number                       |         |         |         |         |
| Max Limit                         | 248     | nsec    |         |         |
| Min Limit                         | 100     | nsec    |         |         |
| n/cm^2                            | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                               | 161.748 | 166.238 | 166.290 | 163.799 |
| Average                           | 166.594 | 167.016 | 167.854 | 166.184 |
| Max                               | 170.454 | 167.900 | 169.235 | 169.339 |
| UL                                | 248.000 | 248.000 | 248.000 | 248.000 |



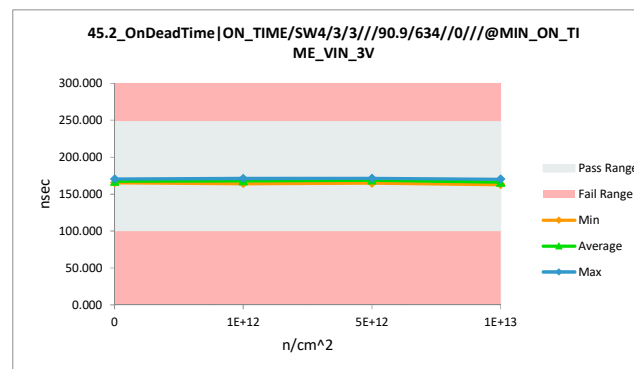


## NDD Report TPS7H4102-SP

| 45.2_OnDeadTime ON_TIME/SW4/3/3// |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | nsec     | nsec                |                    |        |
| Max Limit                         | 260      | 248                 |                    |        |
| Min Limit                         | 70.4     | 100                 |                    |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 166.215             | 170.379            | 4.164  |
| 0                                 | 2        | 165.964             | 166.419            | 0.454  |
| 0                                 | 3        | 165.962             | 165.365            | -0.597 |
| 1E+12                             | 30       | 166.780             | 163.969            | -2.811 |
| 1E+12                             | 31       | 169.233             | 167.166            | -2.067 |
| 1E+12                             | 32       | 169.393             | 168.916            | -0.477 |
| 1E+12                             | 33       | 171.048             | 171.193            | 0.145  |
| 5E+12                             | 34       | 170.330             | 170.710            | 0.380  |
| 5E+12                             | 35       | 169.236             | 169.305            | 0.070  |
| 5E+12                             | 36       | 164.600             | 164.797            | 0.197  |
| 5E+12                             | 37       | 165.101             | 171.233            | 6.132  |
| 1E+13                             | 38       | 167.124             | 166.734            | -0.391 |
| 1E+13                             | 39       | 171.504             | 165.018            | -6.486 |
| 1E+13                             | 40       | 171.786             | 162.712            | -9.074 |
| 1E+13                             | 41       | 171.953             | 170.127            | -1.826 |
|                                   | Max      | 171.953             | 171.233            | 6.132  |
|                                   | Average  | 168.415             | 167.603            | -0.812 |
|                                   | Min      | 164.600             | 162.712            | -9.074 |
|                                   | Std Dev  | 2.578               | 2.847              | 3.646  |

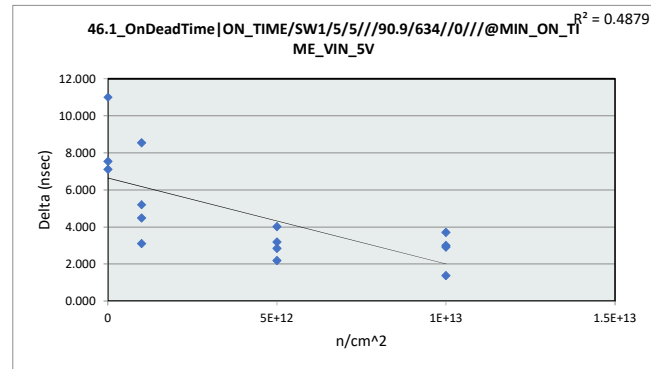


| 45.2_OnDeadTime ON_TIME/SW4/3/3//90.9/634//0///@MIN_ON_T<br>ME_VIN_3V |         |         |         |         |
|-----------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                             |         |         |         |         |
| Tester                                                                |         |         |         |         |
| Test Number                                                           |         |         |         |         |
| Max Limit                                                             | 248     | nsec    |         |         |
| Min Limit                                                             | 100     | nsec    |         |         |
| n/cm^2                                                                | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                                    | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                                                                   | 165.365 | 163.969 | 164.797 | 162.712 |
| Average                                                               | 167.388 | 167.811 | 169.012 | 166.148 |
| Max                                                                   | 170.379 | 171.193 | 171.233 | 170.127 |
| UL                                                                    | 248.000 | 248.000 | 248.000 | 248.000 |

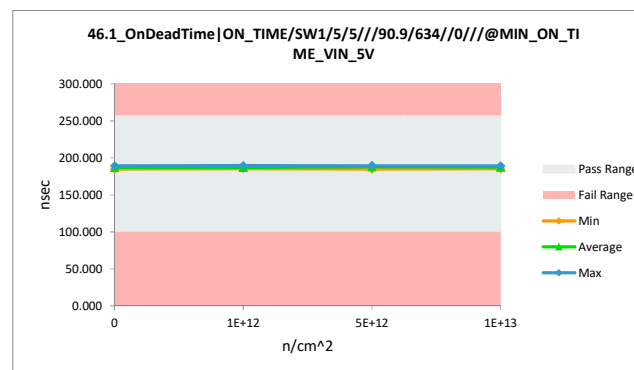


## NDD Report TPS7H4102-SP

| 46.1_OnDeadTime ON_TIME/SW1/5/5// |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | nsec     |                     | nsec               |        |
| Max Limit                         | 270      |                     | 257                |        |
| Min Limit                         | 68.6     |                     | 100                |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 181.462             | 188.994            | 7.532  |
| 0                                 | 2        | 177.074             | 188.064            | 10.990 |
| 0                                 | 3        | 177.714             | 184.807            | 7.092  |
| 1E+12                             | 30       | 181.238             | 189.764            | 8.526  |
| 1E+12                             | 31       | 181.954             | 186.417            | 4.463  |
| 1E+12                             | 32       | 182.302             | 187.491            | 5.189  |
| 1E+12                             | 33       | 182.175             | 185.262            | 3.087  |
| 5E+12                             | 34       | 181.722             | 184.896            | 3.174  |
| 5E+12                             | 35       | 186.107             | 188.283            | 2.176  |
| 5E+12                             | 36       | 186.674             | 189.501            | 2.827  |
| 5E+12                             | 37       | 185.098             | 189.106            | 4.008  |
| 1E+13                             | 38       | 182.350             | 185.339            | 2.990  |
| 1E+13                             | 39       | 185.416             | 186.779            | 1.363  |
| 1E+13                             | 40       | 185.379             | 189.070            | 3.691  |
| 1E+13                             | 41       | 185.417             | 188.306            | 2.890  |
|                                   | Max      | 186.674             | 189.764            | 10.990 |
|                                   | Average  | 182.805             | 187.472            | 4.667  |
|                                   | Min      | 177.074             | 184.807            | 1.363  |
|                                   | Std Dev  | 2.893               | 1.760              | 2.697  |

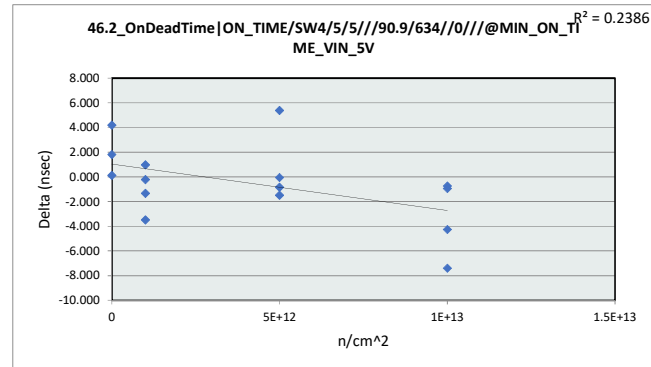


| 46.1_OnDeadTime ON_TIME/SW1/5/5// |         |         |         |         |
|-----------------------------------|---------|---------|---------|---------|
| Test Site                         |         |         |         |         |
| Tester                            |         |         |         |         |
| Test Number                       |         |         |         |         |
| Max Limit                         | 257     |         | nsec    |         |
| Min Limit                         | 100     |         | nsec    |         |
| n/cm^2                            | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                               | 184.807 | 185.262 | 184.896 | 185.339 |
| Average                           | 187.288 | 187.234 | 187.947 | 187.374 |
| Max                               | 188.994 | 189.764 | 189.501 | 189.070 |
| UL                                | 257.000 | 257.000 | 257.000 | 257.000 |

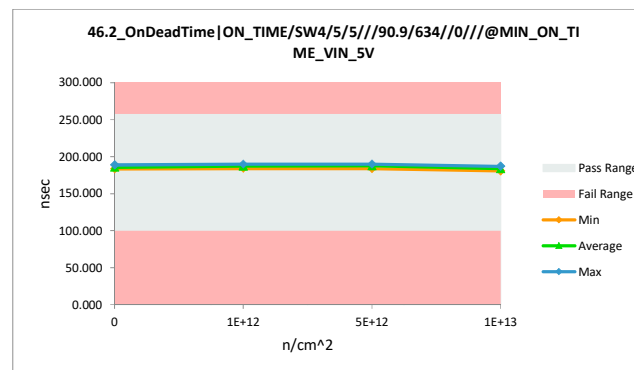


## NDD Report TPS7H4102-SP

| 46.2_OnDeadTime ON_TIME/SW4/5/5// |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | nsec     | nsec                |                    |        |
| Max Limit                         | 270      | 257                 |                    |        |
| Min Limit                         | 68.6     | 100                 |                    |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 184.574             | 188.748            | 4.174  |
| 0                                 | 2        | 183.295             | 185.095            | 1.800  |
| 0                                 | 3        | 183.268             | 183.371            | 0.102  |
| 1E+12                             | 30       | 185.478             | 184.136            | -1.342 |
| 1E+12                             | 31       | 188.667             | 185.164            | -3.503 |
| 1E+12                             | 32       | 188.164             | 189.126            | 0.962  |
| 1E+12                             | 33       | 190.176             | 189.930            | -0.247 |
| 5E+12                             | 34       | 190.099             | 188.602            | -1.497 |
| 5E+12                             | 35       | 188.192             | 188.121            | -0.070 |
| 5E+12                             | 36       | 184.756             | 183.897            | -0.859 |
| 5E+12                             | 37       | 184.528             | 189.900            | 5.372  |
| 1E+13                             | 38       | 184.351             | 183.599            | -0.751 |
| 1E+13                             | 39       | 188.270             | 183.995            | -4.275 |
| 1E+13                             | 40       | 188.286             | 180.883            | -7.403 |
| 1E+13                             | 41       | 187.815             | 186.863            | -0.952 |
|                                   | Max      | 190.176             | 189.930            | 5.372  |
|                                   | Average  | 186.661             | 186.095            | -0.566 |
|                                   | Min      | 183.268             | 180.883            | -7.403 |
|                                   | Std Dev  | 2.412               | 2.830              | 3.132  |

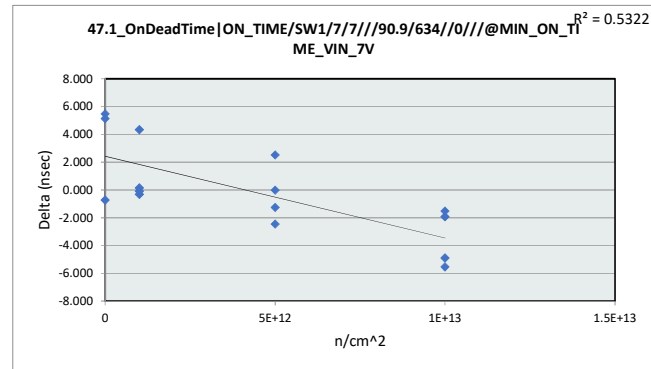


| 46.2_OnDeadTime ON_TIME/SW4/5/5//90.9/634//0///@MIN_ON_TI<br>ME_VIN_5V |         |         |         |         |
|------------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                              |         |         |         |         |
| Tester                                                                 |         |         |         |         |
| Test Number                                                            |         |         |         |         |
| Max Limit                                                              | 257     | nsec    |         |         |
| Min Limit                                                              | 100     | nsec    |         |         |
| n/cm^2                                                                 | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                                     | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                                                                    | 183.371 | 184.136 | 183.897 | 180.883 |
| Average                                                                | 185.738 | 187.089 | 187.630 | 183.835 |
| Max                                                                    | 188.748 | 189.930 | 189.900 | 186.864 |
| UL                                                                     | 257.000 | 257.000 | 257.000 | 257.000 |

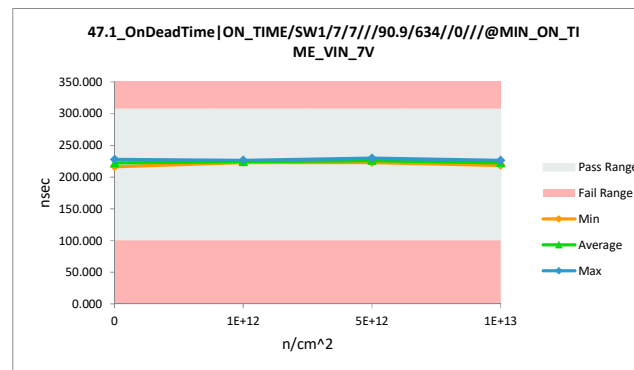


## NDD Report TPS7H4102-SP

| 47.1_OnDeadTime ON_TIME/SW1/7/7// |          |                     |                    |        |
|-----------------------------------|----------|---------------------|--------------------|--------|
| Test Site                         |          |                     |                    |        |
| Tester                            |          |                     |                    |        |
| Test Number                       |          |                     |                    |        |
| Unit                              | nsec     | nsec                |                    |        |
| Max Limit                         | 320      | 307                 |                    |        |
| Min Limit                         | 58.6     | 100                 |                    |        |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                 | 1        | 222.568             | 227.693            | 5.124  |
| 0                                 | 2        | 217.104             | 222.570            | 5.466  |
| 0                                 | 3        | 217.130             | 216.382            | -0.747 |
| 1E+12                             | 30       | 222.264             | 226.590            | 4.327  |
| 1E+12                             | 31       | 222.992             | 222.907            | -0.084 |
| 1E+12                             | 32       | 222.968             | 223.105            | 0.137  |
| 1E+12                             | 33       | 224.498             | 224.161            | -0.337 |
| 5E+12                             | 34       | 223.172             | 223.136            | -0.036 |
| 5E+12                             | 35       | 227.206             | 229.721            | 2.515  |
| 5E+12                             | 36       | 227.738             | 226.464            | -1.273 |
| 5E+12                             | 37       | 227.646             | 225.192            | -2.455 |
| 1E+13                             | 38       | 220.386             | 218.449            | -1.937 |
| 1E+13                             | 39       | 227.718             | 222.822            | -4.896 |
| 1E+13                             | 40       | 228.499             | 222.956            | -5.543 |
| 1E+13                             | 41       | 227.661             | 226.126            | -1.535 |
|                                   | Max      | 228.499             | 229.721            | 5.466  |
|                                   | Average  | 223.970             | 223.885            | -0.085 |
|                                   | Min      | 217.104             | 216.382            | -5.543 |
|                                   | Std Dev  | 3.788               | 3.391              | 3.276  |

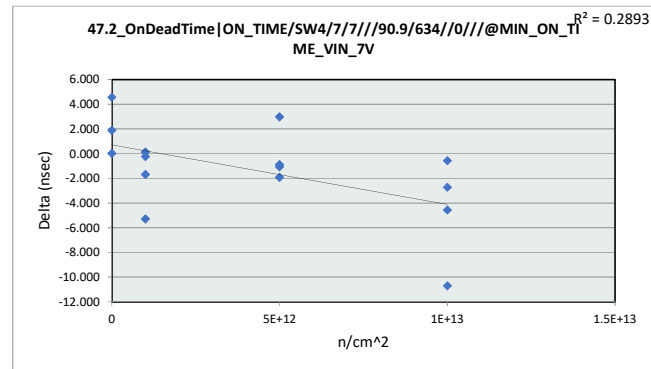


| 47.1_OnDeadTime ON_TIME/SW1/7/7// |         |         |         |         |
|-----------------------------------|---------|---------|---------|---------|
| Test Site                         |         |         |         |         |
| Tester                            |         |         |         |         |
| Test Number                       |         |         |         |         |
| Max Limit                         | 307     | nsec    |         |         |
| Min Limit                         | 100     | nsec    |         |         |
| n/cm^2                            | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                               | 216.382 | 222.907 | 223.136 | 218.449 |
| Average                           | 222.215 | 224.191 | 226.128 | 222.588 |
| Max                               | 227.693 | 226.590 | 229.721 | 226.126 |
| UL                                | 307.000 | 307.000 | 307.000 | 307.000 |

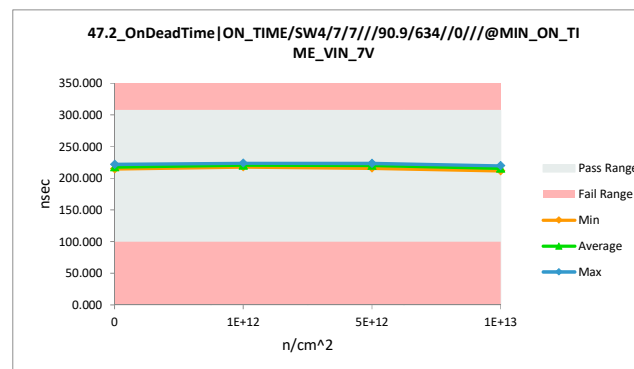


## NDD Report TPS7H4102-SP

| 47.2_OnDeadTime ON_TIME/SW4/7/7// |          |                     |                    |         |
|-----------------------------------|----------|---------------------|--------------------|---------|
| Test Site                         |          |                     |                    |         |
| Tester                            |          |                     |                    |         |
| Test Number                       |          |                     |                    |         |
| Unit                              | nsec     | nsec                |                    |         |
| Max Limit                         | 320      | 307                 |                    |         |
| Min Limit                         | 58.6     | 100                 |                    |         |
| n/cm^2                            | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                 | 1        | 217.139             | 221.705            | 4.566   |
| 0                                 | 2        | 215.049             | 216.919            | 1.870   |
| 0                                 | 3        | 214.680             | 214.687            | 0.007   |
| 1E+12                             | 30       | 219.415             | 217.728            | -1.687  |
| 1E+12                             | 31       | 223.336             | 218.030            | -5.306  |
| 1E+12                             | 32       | 223.152             | 223.260            | 0.108   |
| 1E+12                             | 33       | 223.893             | 223.646            | -0.247  |
| 5E+12                             | 34       | 224.485             | 223.414            | -1.071  |
| 5E+12                             | 35       | 221.011             | 220.130            | -0.881  |
| 5E+12                             | 36       | 217.854             | 215.927            | -1.927  |
| 5E+12                             | 37       | 218.460             | 221.430            | 2.969   |
| 1E+13                             | 38       | 216.757             | 216.174            | -0.583  |
| 1E+13                             | 39       | 220.828             | 216.254            | -4.574  |
| 1E+13                             | 40       | 222.107             | 211.398            | -10.709 |
| 1E+13                             | 41       | 222.411             | 219.675            | -2.736  |
|                                   | Max      | 224.485             | 223.646            | 4.566   |
|                                   | Average  | 220.038             | 218.692            | -1.347  |
|                                   | Min      | 214.680             | 211.398            | -10.709 |
|                                   | Std Dev  | 3.242               | 3.596              | 3.646   |

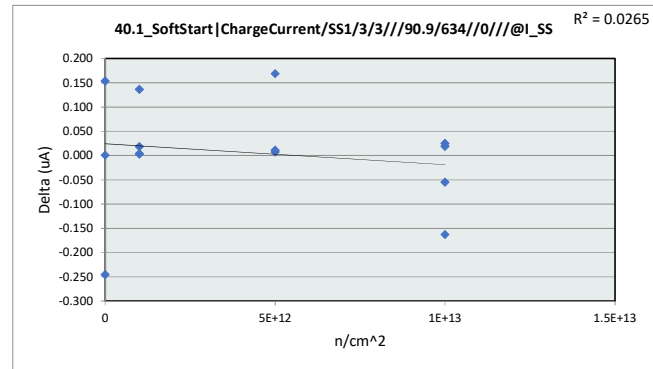


| 47.2_OnDeadTime ON_TIME/SW4/7/7//90.9/634//0///@MIN_ON_TI |         |         |         |         |
|-----------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                 |         |         |         |         |
| Tester                                                    |         |         |         |         |
| Test Number                                               |         |         |         |         |
| Max Limit                                                 | 307     | nsec    |         |         |
| Min Limit                                                 | 100     | nsec    |         |         |
| n/cm^2                                                    | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                        | 100.000 | 100.000 | 100.000 | 100.000 |
| Min                                                       | 214.687 | 217.728 | 215.927 | 211.398 |
| Average                                                   | 217.770 | 220.666 | 220.225 | 215.875 |
| Max                                                       | 221.705 | 223.646 | 223.414 | 219.675 |
| UL                                                        | 307.000 | 307.000 | 307.000 | 307.000 |

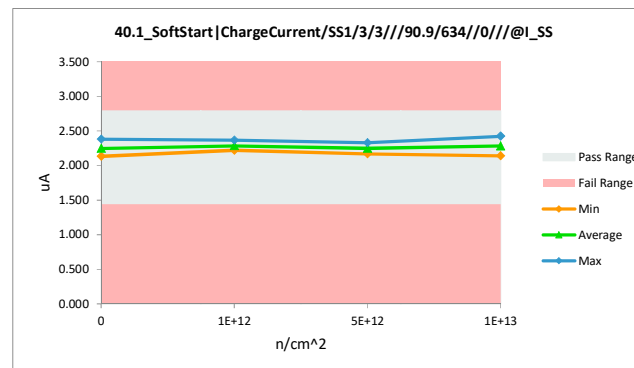


## NDD Report TPS7H4102-SP

| 40.1_SoftStart ChargeCurrent/SS1/3/3// |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | uA       |                     | uA                 |        |
| Max Limit                              | 2.83     |                     | 2.79               |        |
| Min Limit                              | 1.4      |                     | 1.44               |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 2.379               | 2.133              | -0.246 |
| 0                                      | 2        | 2.228               | 2.381              | 0.153  |
| 0                                      | 3        | 2.228               | 2.229              | 0.000  |
| 1E+12                                  | 30       | 2.230               | 2.366              | 0.137  |
| 1E+12                                  | 31       | 2.216               | 2.234              | 0.018  |
| 1E+12                                  | 32       | 2.216               | 2.220              | 0.004  |
| 1E+12                                  | 33       | 2.312               | 2.315              | 0.003  |
| 5E+12                                  | 34       | 2.287               | 2.296              | 0.009  |
| 5E+12                                  | 35       | 2.189               | 2.200              | 0.011  |
| 5E+12                                  | 36       | 2.161               | 2.168              | 0.007  |
| 5E+12                                  | 37       | 2.161               | 2.329              | 0.168  |
| 1E+13                                  | 38       | 2.398               | 2.423              | 0.025  |
| 1E+13                                  | 39       | 2.300               | 2.138              | -0.163 |
| 1E+13                                  | 40       | 2.301               | 2.246              | -0.055 |
| 1E+13                                  | 41       | 2.300               | 2.319              | 0.018  |
|                                        | Max      | 2.398               | 2.423              | 0.168  |
|                                        | Average  | 2.261               | 2.267              | 0.006  |
|                                        | Min      | 2.161               | 2.133              | -0.246 |
|                                        | Std Dev  | 0.072               | 0.089              | 0.107  |

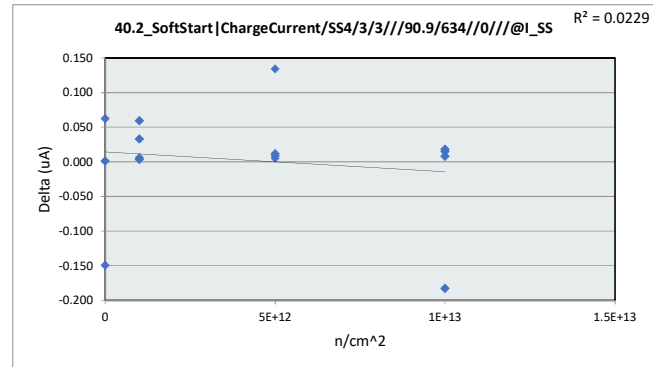


| 40.1_SoftStart ChargeCurrent |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Test Site                    |       |       |       |       |
| Tester                       |       |       |       |       |
| Test Number                  |       |       |       |       |
| Max Limit                    | 2.79  |       | uA    |       |
| Min Limit                    | 1.44  |       | uA    |       |
| n/cm^2                       | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                           | 1.440 | 1.440 | 1.440 | 1.440 |
| Min                          | 2.133 | 2.220 | 2.168 | 2.138 |
| Average                      | 2.248 | 2.284 | 2.248 | 2.281 |
| Max                          | 2.381 | 2.366 | 2.329 | 2.423 |
| UL                           | 2.790 | 2.790 | 2.790 | 2.790 |

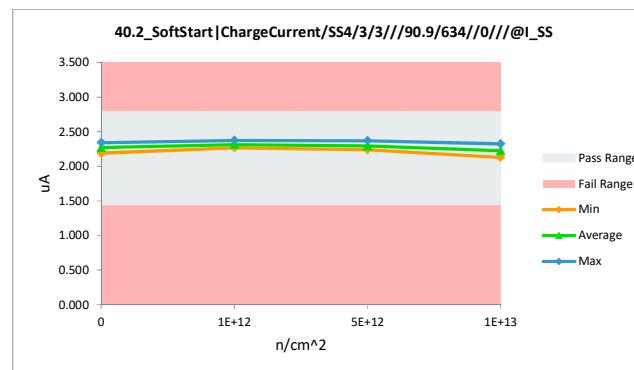


## NDD Report TPS7H4102-SP

| 40.2_SoftStart ChargeCurrent/SS4/3/3// |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | uA       |                     | uA                 |        |
| Max Limit                              | 2.83     |                     | 2.79               |        |
| Min Limit                              | 1.4      |                     | 1.44               |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 2.341               | 2.191              | -0.150 |
| 0                                      | 2        | 2.280               | 2.342              | 0.062  |
| 0                                      | 3        | 2.280               | 2.281              | 0.001  |
| 1E+12                                  | 30       | 2.315               | 2.374              | 0.059  |
| 1E+12                                  | 31       | 2.286               | 2.319              | 0.033  |
| 1E+12                                  | 32       | 2.288               | 2.291              | 0.003  |
| 1E+12                                  | 33       | 2.261               | 2.267              | 0.006  |
| 5E+12                                  | 34       | 2.282               | 2.291              | 0.008  |
| 5E+12                                  | 35       | 2.258               | 2.269              | 0.011  |
| 5E+12                                  | 36       | 2.235               | 2.240              | 0.005  |
| 5E+12                                  | 37       | 2.235               | 2.369              | 0.134  |
| 1E+13                                  | 38       | 2.111               | 2.129              | 0.018  |
| 1E+13                                  | 39       | 2.310               | 2.127              | -0.183 |
| 1E+13                                  | 40       | 2.311               | 2.319              | 0.008  |
| 1E+13                                  | 41       | 2.310               | 2.325              | 0.014  |
|                                        | Max      | 2.341               | 2.374              | 0.134  |
|                                        | Average  | 2.274               | 2.276              | 0.002  |
|                                        | Min      | 2.111               | 2.127              | -0.183 |
|                                        | Std Dev  | 0.054               | 0.076              | 0.077  |

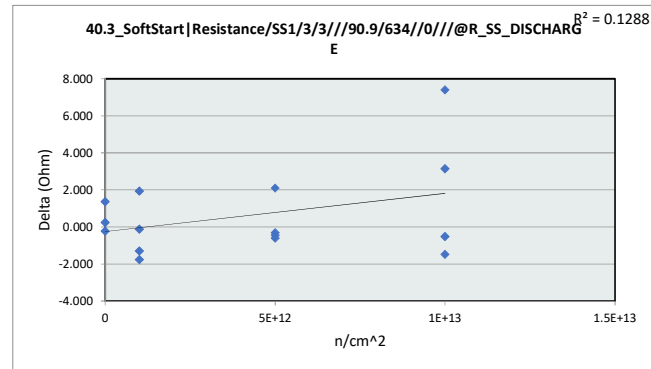


| 40.2_SoftStart ChargeCurrent |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Test Site                    |       |       |       |       |
| Tester                       |       |       |       |       |
| Test Number                  |       |       |       |       |
| Max Limit                    | 2.79  |       | uA    |       |
| Min Limit                    | 1.44  |       | uA    |       |
| n/cm^2                       | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                           | 1.440 | 1.440 | 1.440 | 1.440 |
| Min                          | 2.191 | 2.267 | 2.240 | 2.127 |
| Average                      | 2.272 | 2.313 | 2.292 | 2.225 |
| Max                          | 2.342 | 2.374 | 2.369 | 2.325 |
| UL                           | 2.790 | 2.790 | 2.790 | 2.790 |

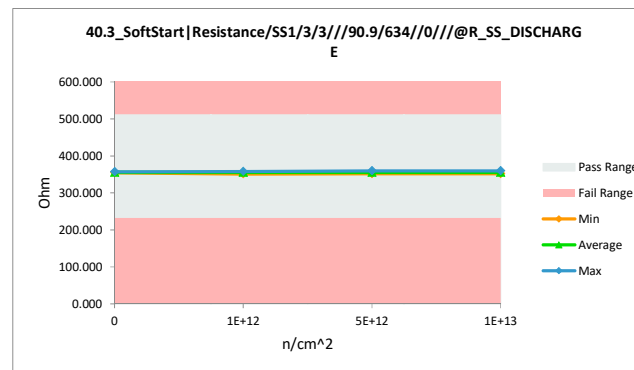


## NDD Report TPS7H4102-SP

| 40.3_SoftStart Resistance/SS1/3/3///90.9/634//0///@R_SS_DISCHARG |          |                     |                    |        |
|------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                        |          |                     |                    |        |
| Tester                                                           |          |                     |                    |        |
| Test Number                                                      |          |                     |                    |        |
| Unit                                                             | Ohm      | Ohm                 |                    |        |
| Max Limit                                                        | 513      | 511                 |                    |        |
| Min Limit                                                        | 230      | 232                 |                    |        |
| n/cm^2                                                           | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                | 1        | 355.426             | 356.784            | 1.358  |
| 0                                                                | 2        | 354.948             | 355.194            | 0.246  |
| 0                                                                | 3        | 354.942             | 354.717            | -0.225 |
| 1E+12                                                            | 30       | 356.101             | 358.038            | 1.937  |
| 1E+12                                                            | 31       | 357.650             | 355.885            | -1.765 |
| 1E+12                                                            | 32       | 357.757             | 356.458            | -1.299 |
| 1E+12                                                            | 33       | 351.302             | 351.189            | -0.113 |
| 5E+12                                                            | 34       | 351.818             | 351.369            | -0.449 |
| 5E+12                                                            | 35       | 352.917             | 352.608            | -0.309 |
| 5E+12                                                            | 36       | 357.678             | 357.078            | -0.600 |
| 5E+12                                                            | 37       | 357.642             | 359.740            | 2.099  |
| 1E+13                                                            | 38       | 355.609             | 354.133            | -1.476 |
| 1E+13                                                            | 39       | 352.147             | 359.551            | 7.403  |
| 1E+13                                                            | 40       | 352.245             | 355.385            | 3.141  |
| 1E+13                                                            | 41       | 352.169             | 351.661            | -0.509 |
|                                                                  | Max      | 357.757             | 359.740            | 7.403  |
|                                                                  | Average  | 354.690             | 355.319            | 0.629  |
|                                                                  | Min      | 351.302             | 351.189            | -1.765 |
|                                                                  | Std Dev  | 2.405               | 2.763              | 2.342  |



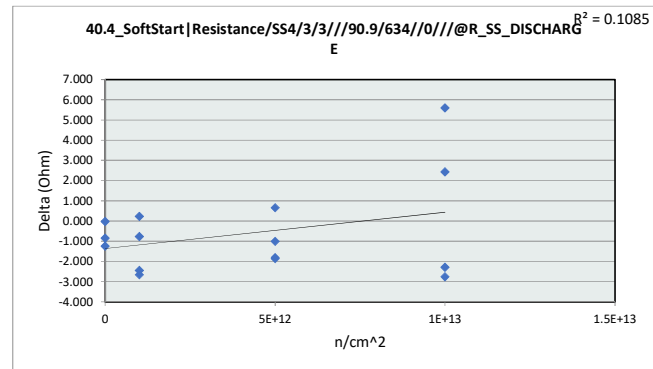
| 40.3_SoftStart Resistance/SS1/3/3///90.9/634//0///@R_SS_DISCHARG |         |         |         |         |
|------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                        |         |         |         |         |
| Tester                                                           |         |         |         |         |
| Test Number                                                      |         |         |         |         |
| Max Limit                                                        | 511     | Ohm     |         |         |
| Min Limit                                                        | 232     | Ohm     |         |         |
| n/cm^2                                                           | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                               | 232.000 | 232.000 | 232.000 | 232.000 |
| Min                                                              | 354.717 | 351.189 | 351.369 | 351.661 |
| Average                                                          | 355.565 | 355.393 | 355.199 | 355.183 |
| Max                                                              | 356.784 | 358.038 | 359.740 | 359.551 |
| UL                                                               | 511.000 | 511.000 | 511.000 | 511.000 |



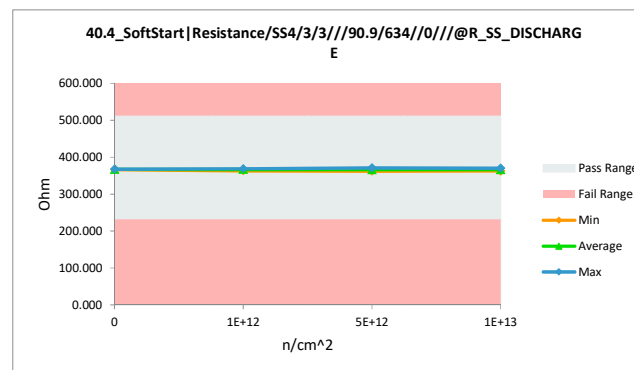


## NDD Report TPS7H4102-SP

| 40.4_SoftStart Resistance/SS4/3/3///90.9/634//0///@R_SS_DISCHARG |          |                     |                    |        |
|------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                        |          |                     |                    |        |
| Tester                                                           |          |                     |                    |        |
| Test Number                                                      |          |                     |                    |        |
| Unit                                                             | Ohm      | Ohm                 |                    |        |
| Max Limit                                                        | 513      | 511                 |                    |        |
| Min Limit                                                        | 230      | 232                 |                    |        |
| n/cm^2                                                           | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                | 1        | 367.351             | 367.322            | -0.029 |
| 0                                                                | 2        | 367.845             | 366.587            | -1.258 |
| 0                                                                | 3        | 367.830             | 366.971            | -0.859 |
| 1E+12                                                            | 30       | 368.265             | 368.486            | 0.220  |
| 1E+12                                                            | 31       | 369.958             | 367.507            | -2.451 |
| 1E+12                                                            | 32       | 369.996             | 367.326            | -2.671 |
| 1E+12                                                            | 33       | 363.809             | 363.031            | -0.778 |
| 5E+12                                                            | 34       | 363.877             | 362.065            | -1.811 |
| 5E+12                                                            | 35       | 365.021             | 364.004            | -1.018 |
| 5E+12                                                            | 36       | 370.244             | 368.369            | -1.875 |
| 5E+12                                                            | 37       | 370.043             | 370.689            | 0.646  |
| 1E+13                                                            | 38       | 368.130             | 365.358            | -2.772 |
| 1E+13                                                            | 39       | 364.420             | 370.004            | 5.585  |
| 1E+13                                                            | 40       | 364.621             | 367.046            | 2.424  |
| 1E+13                                                            | 41       | 364.588             | 362.292            | -2.296 |
|                                                                  | Max      | 370.244             | 370.689            | 5.585  |
|                                                                  | Average  | 367.067             | 366.470            | -0.596 |
|                                                                  | Min      | 363.809             | 362.065            | -2.772 |
|                                                                  | Std Dev  | 2.447               | 2.633              | 2.221  |

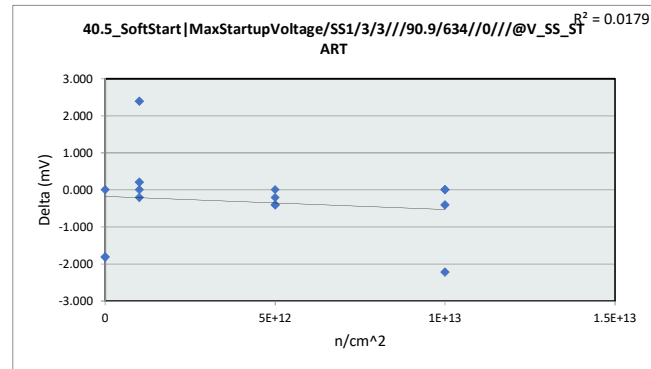


| 40.4_SoftStart Resistance/SS4/3/3///90.9/634//0///@R_SS_DISCHARG |         |         |         |         |
|------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                        |         |         |         |         |
| Tester                                                           |         |         |         |         |
| Test Number                                                      |         |         |         |         |
| Max Limit                                                        | 511     | Ohm     |         |         |
| Min Limit                                                        | 232     | Ohm     |         |         |
| n/cm^2                                                           | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                               | 232.000 | 232.000 | 232.000 | 232.000 |
| Min                                                              | 366.588 | 363.031 | 362.066 | 362.292 |
| Average                                                          | 366.960 | 366.587 | 366.282 | 366.175 |
| Max                                                              | 367.322 | 368.486 | 370.689 | 370.004 |
| UL                                                               | 511.000 | 511.000 | 511.000 | 511.000 |

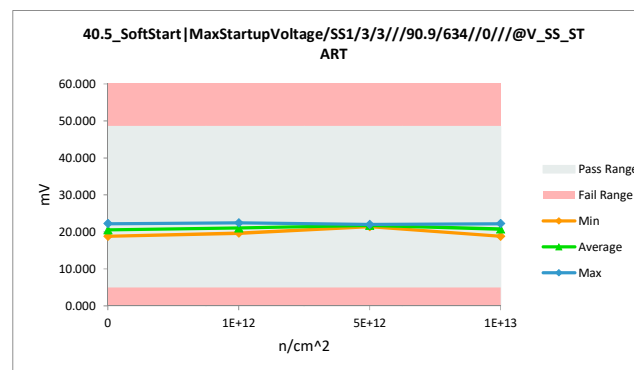


## NDD Report TPS7H4102-SP

| 40.5_SoftStart MaxStartupVoltage/SS1/3 |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | mV       |                     | mV                 |        |
| Max Limit                              | 50       |                     | 48.5               |        |
| Min Limit                              | -3.7     |                     | 5                  |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 20.631              | 18.817             | -1.814 |
| 0                                      | 2        | 22.444              | 20.631             | -1.814 |
| 0                                      | 3        | 22.238              | 22.238             | 0.000  |
| 1E+12                                  | 30       | 22.238              | 22.444             | 0.206  |
| 1E+12                                  | 31       | 19.641              | 22.032             | 2.391  |
| 1E+12                                  | 32       | 19.641              | 19.641             | 0.000  |
| 1E+12                                  | 33       | 20.218              | 20.012             | -0.206 |
| 5E+12                                  | 34       | 21.620              | 21.414             | -0.206 |
| 5E+12                                  | 35       | 22.444              | 22.032             | -0.412 |
| 5E+12                                  | 36       | 22.032              | 21.620             | -0.412 |
| 5E+12                                  | 37       | 22.032              | 22.032             | 0.000  |
| 1E+13                                  | 38       | 22.650              | 22.238             | -0.412 |
| 1E+13                                  | 39       | 21.043              | 21.043             | 0.000  |
| 1E+13                                  | 40       | 21.043              | 18.817             | -2.226 |
| 1E+13                                  | 41       | 21.043              | 21.043             | 0.000  |
|                                        | Max      | 22.650              | 22.444             | 2.391  |
|                                        | Average  | 21.397              | 21.070             | -0.327 |
|                                        | Min      | 19.641              | 18.817             | -2.226 |
|                                        | Std Dev  | 1.020               | 1.234              | 1.078  |

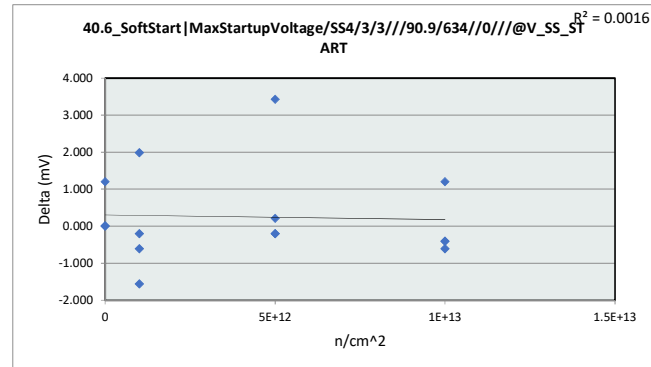


| 40.5_SoftStart MaxStartupVoltage/SS1/3/3///90.9/634//0///@V_SS_ST |        |        |        |        |
|-------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                         |        |        |        |        |
| Tester                                                            |        |        |        |        |
| Test Number                                                       |        |        |        |        |
| Max Limit                                                         | 48.5   |        | mV     |        |
| Min Limit                                                         | 5      |        | mV     |        |
| n/cm^2                                                            | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                                | 5.000  | 5.000  | 5.000  | 5.000  |
| Min                                                               | 18.817 | 19.641 | 21.414 | 18.817 |
| Average                                                           | 20.562 | 21.032 | 21.774 | 20.785 |
| Max                                                               | 22.238 | 22.444 | 22.032 | 22.238 |
| UL                                                                | 48.500 | 48.500 | 48.500 | 48.500 |

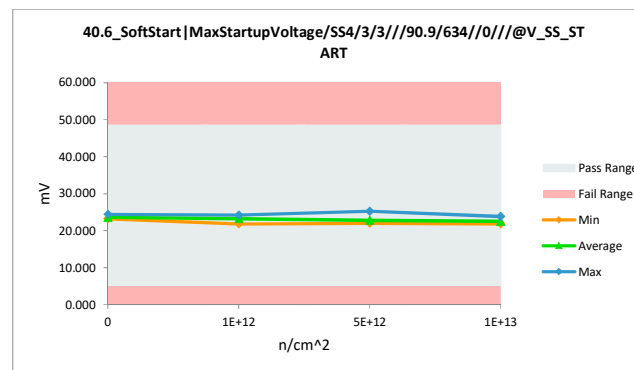


## NDD Report TPS7H4102-SP

| 40.6_SoftStart MaxStartupVoltage/SS4/3 |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | mV       |                     | mV                 |        |
| Max Limit                              | 50       |                     | 48.5               |        |
| Min Limit                              | -3.7     |                     | 5                  |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 23.227              | 24.423             | 1.195  |
| 0                                      | 2        | 23.227              | 23.227             | 0.000  |
| 0                                      | 3        | 23.227              | 23.227             | 0.000  |
| 1E+12                                  | 30       | 24.423              | 22.856             | -1.566 |
| 1E+12                                  | 31       | 22.238              | 24.217             | 1.979  |
| 1E+12                                  | 32       | 22.444              | 21.826             | -0.618 |
| 1E+12                                  | 33       | 24.217              | 24.010             | -0.206 |
| 5E+12                                  | 34       | 22.238              | 22.032             | -0.206 |
| 5E+12                                  | 35       | 22.238              | 22.032             | -0.206 |
| 5E+12                                  | 36       | 21.826              | 22.032             | 0.206  |
| 5E+12                                  | 37       | 21.826              | 25.247             | 3.421  |
| 1E+13                                  | 38       | 22.444              | 21.826             | -0.618 |
| 1E+13                                  | 39       | 22.650              | 23.846             | 1.195  |
| 1E+13                                  | 40       | 22.650              | 22.238             | -0.412 |
| 1E+13                                  | 41       | 22.650              | 22.238             | -0.412 |
|                                        | Max      | 24.423              | 25.247             | 3.421  |
|                                        | Average  | 22.768              | 23.018             | 0.250  |
|                                        | Min      | 21.826              | 21.826             | -1.566 |
|                                        | Std Dev  | 0.772               | 1.106              | 1.233  |

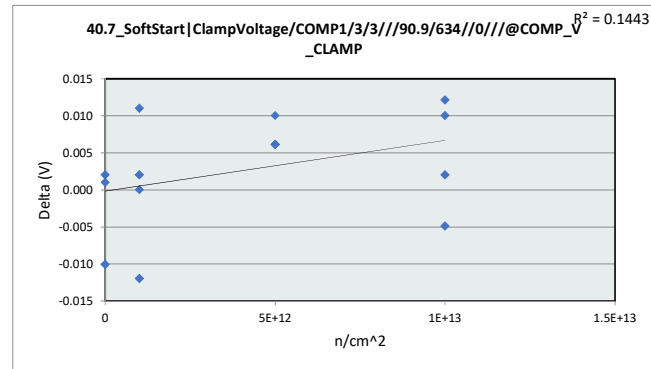


| 40.6_SoftStart MaxStartupVoltage/SS4/3/3///90.9/634//0///@V_SS_ST |        |        |        |        |
|-------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                         |        |        |        |        |
| Tester                                                            |        |        |        |        |
| Test Number                                                       |        |        |        |        |
| Max Limit                                                         | 48.5   |        | mV     |        |
| Min Limit                                                         | 5      |        | mV     |        |
| n/cm^2                                                            | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                                | 5.000  | 5.000  | 5.000  | 5.000  |
| Min                                                               | 23.227 | 21.826 | 22.032 | 21.826 |
| Average                                                           | 23.626 | 23.227 | 22.836 | 22.537 |
| Max                                                               | 24.423 | 24.217 | 25.247 | 23.846 |
| UL                                                                | 48.500 | 48.500 | 48.500 | 48.500 |

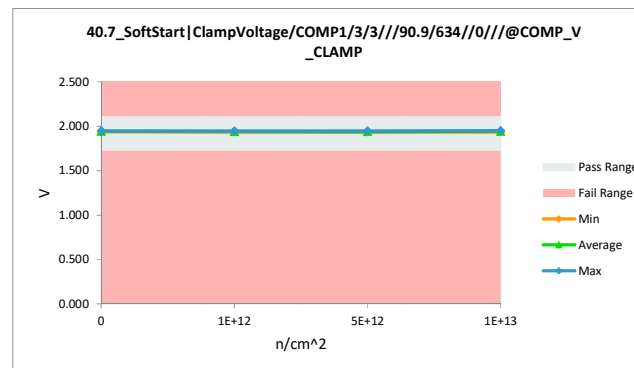


## NDD Report TPS7H4102-SP

| 40.7_SoftStart ClampVoltage/COMP1/3/3 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | V        |                     | V                  |        |
| Max Limit                             | 2.13     |                     | 2.105              |        |
| Min Limit                             | 1.7      |                     | 1.725              |        |
| n/cm <sup>2</sup>                     | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 1.949               | 1.939              | -0.010 |
| 0                                     | 2        | 1.947               | 1.949              | 0.002  |
| 0                                     | 3        | 1.947               | 1.948              | 0.001  |
| 1E+12                                 | 30       | 1.935               | 1.946              | 0.011  |
| 1E+12                                 | 31       | 1.948               | 1.936              | -0.012 |
| 1E+12                                 | 32       | 1.948               | 1.948              | 0.000  |
| 1E+12                                 | 33       | 1.941               | 1.942              | 0.002  |
| 5E+12                                 | 34       | 1.941               | 1.947              | 0.006  |
| 5E+12                                 | 35       | 1.929               | 1.936              | 0.006  |
| 5E+12                                 | 36       | 1.931               | 1.937              | 0.006  |
| 5E+12                                 | 37       | 1.931               | 1.941              | 0.010  |
| 1E+13                                 | 38       | 1.933               | 1.945              | 0.012  |
| 1E+13                                 | 39       | 1.941               | 1.937              | -0.005 |
| 1E+13                                 | 40       | 1.941               | 1.944              | 0.002  |
| 1E+13                                 | 41       | 1.941               | 1.952              | 0.010  |
|                                       | Max      | 1.949               | 1.952              | 0.012  |
|                                       | Average  | 1.940               | 1.943              | 0.003  |
|                                       | Min      | 1.929               | 1.936              | -0.012 |
|                                       | Std Dev  | 0.007               | 0.005              | 0.007  |

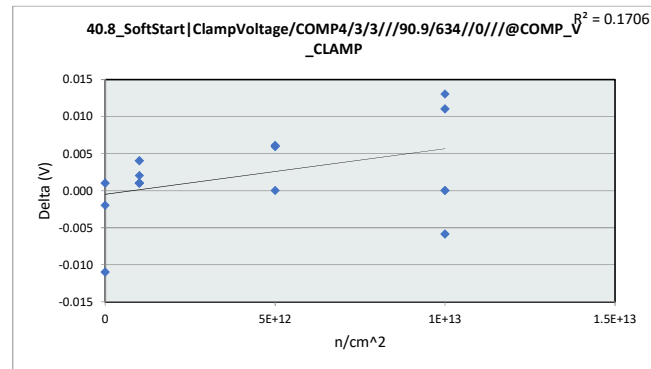


| 40.7_SoftStart ClampVoltage/ |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Test Site                    |       |       |       |       |
| Tester                       |       |       |       |       |
| Test Number                  |       |       |       |       |
| Max Limit                    | 2.105 |       | V     |       |
| Min Limit                    | 1.725 |       | V     |       |
| n/cm <sup>2</sup>            | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                           | 1.725 | 1.725 | 1.725 | 1.725 |
| Min                          | 1.939 | 1.936 | 1.936 | 1.937 |
| Average                      | 1.945 | 1.943 | 1.940 | 1.944 |
| Max                          | 1.949 | 1.948 | 1.947 | 1.952 |
| UL                           | 2.105 | 2.105 | 2.105 | 2.105 |

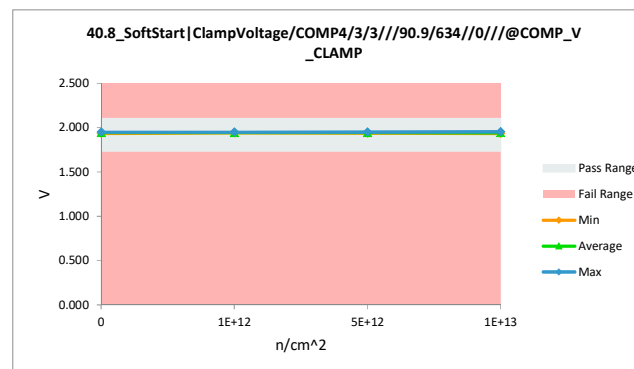


## NDD Report TPS7H4102-SP

| 40.8_SoftStart ClampVoltage/COMP4/3/3 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | V        |                     | V                  |        |
| Max Limit                             | 2.13     |                     | 2.105              |        |
| Min Limit                             | 1.7      |                     | 1.725              |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 1.945               | 1.934              | -0.011 |
| 0                                     | 2        | 1.947               | 1.945              | -0.002 |
| 0                                     | 3        | 1.947               | 1.948              | 0.001  |
| 1E+12                                 | 30       | 1.941               | 1.942              | 0.001  |
| 1E+12                                 | 31       | 1.939               | 1.944              | 0.004  |
| 1E+12                                 | 32       | 1.939               | 1.941              | 0.001  |
| 1E+12                                 | 33       | 1.945               | 1.947              | 0.002  |
| 5E+12                                 | 34       | 1.944               | 1.949              | 0.006  |
| 5E+12                                 | 35       | 1.941               | 1.947              | 0.006  |
| 5E+12                                 | 36       | 1.936               | 1.941              | 0.006  |
| 5E+12                                 | 37       | 1.936               | 1.936              | 0.000  |
| 1E+13                                 | 38       | 1.929               | 1.939              | 0.011  |
| 1E+13                                 | 39       | 1.939               | 1.934              | -0.006 |
| 1E+13                                 | 40       | 1.941               | 1.941              | 0.000  |
| 1E+13                                 | 41       | 1.939               | 1.952              | 0.013  |
|                                       | Max      | 1.947               | 1.952              | 0.013  |
|                                       | Average  | 1.940               | 1.943              | 0.002  |
|                                       | Min      | 1.929               | 1.934              | -0.011 |
|                                       | Std Dev  | 0.005               | 0.006              | 0.006  |

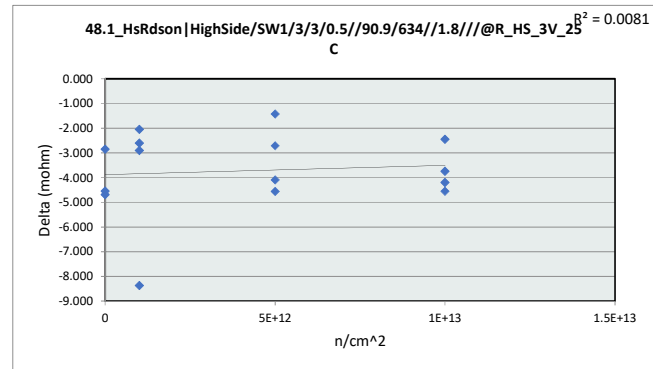


| 40.8_SoftStart ClampVoltage/ |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Test Site                    |       |       |       |       |
| Tester                       |       |       |       |       |
| Test Number                  |       |       |       |       |
| Max Limit                    | 2.105 |       | V     |       |
| Min Limit                    | 1.725 |       | V     |       |
| n/cm^2                       | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                           | 1.725 | 1.725 | 1.725 | 1.725 |
| Min                          | 1.934 | 1.941 | 1.936 | 1.934 |
| Average                      | 1.942 | 1.943 | 1.943 | 1.942 |
| Max                          | 1.948 | 1.947 | 1.950 | 1.953 |
| UL                           | 2.105 | 2.105 | 2.105 | 2.105 |

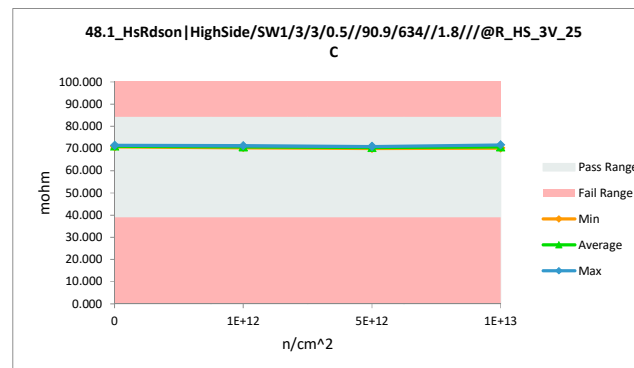


## NDD Report TPS7H4102-SP

| 48.1_HsRdson HighSide/SW1/3/3/0.5//90.9/634//1.8///@R_HS_3V_25 |          |                     |                    |        |
|----------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                      |          |                     |                    |        |
| Tester                                                         |          |                     |                    |        |
| Test Number                                                    |          |                     |                    |        |
| Unit                                                           | mohm     |                     | mohm               |        |
| Max Limit                                                      | 88       |                     | 84                 |        |
| Min Limit                                                      | 30       |                     | 39                 |        |
| n/cm^2                                                         | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                              | 1        | 74.303              | 71.450             | -2.853 |
| 0                                                              | 2        | 75.491              | 70.798             | -4.694 |
| 0                                                              | 3        | 75.404              | 70.856             | -4.548 |
| 1E+12                                                          | 30       | 78.781              | 70.408             | -8.372 |
| 1E+12                                                          | 31       | 73.872              | 71.268             | -2.604 |
| 1E+12                                                          | 32       | 73.858              | 70.947             | -2.911 |
| 1E+12                                                          | 33       | 72.409              | 70.361             | -2.048 |
| 5E+12                                                          | 34       | 75.177              | 70.610             | -4.567 |
| 5E+12                                                          | 35       | 74.438              | 70.334             | -4.104 |
| 5E+12                                                          | 36       | 72.696              | 69.980             | -2.716 |
| 5E+12                                                          | 37       | 72.322              | 70.888             | -1.434 |
| 1E+13                                                          | 38       | 75.361              | 70.807             | -4.554 |
| 1E+13                                                          | 39       | 73.905              | 70.160             | -3.746 |
| 1E+13                                                          | 40       | 74.461              | 70.256             | -4.206 |
| 1E+13                                                          | 41       | 74.094              | 71.640             | -2.454 |
|                                                                | Max      | 78.781              | 71.640             | -1.434 |
|                                                                | Average  | 74.438              | 70.717             | -3.721 |
|                                                                | Min      | 72.322              | 69.980             | -8.372 |
|                                                                | Std Dev  | 1.581               | 0.482              | 1.655  |

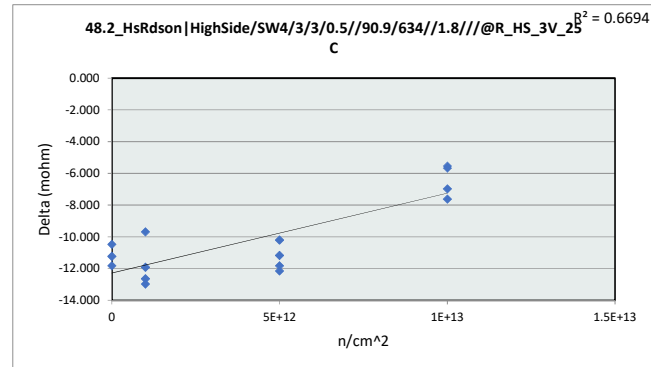


| 48.1_HsRdson HighSide/SW1/3/3/0.5//90.9/634//1.8///@R_HS_3V_25 |        |        |        |        |
|----------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                      |        |        |        |        |
| Tester                                                         |        |        |        |        |
| Test Number                                                    |        |        |        |        |
| Max Limit                                                      | 84     |        | mohm   |        |
| Min Limit                                                      | 39     |        | mohm   |        |
| n/cm^2                                                         | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                             | 39.000 | 39.000 | 39.000 | 39.000 |
| Min                                                            | 70.798 | 70.361 | 69.980 | 70.160 |
| Average                                                        | 71.035 | 70.746 | 70.453 | 70.716 |
| Max                                                            | 71.450 | 71.268 | 70.888 | 71.640 |
| UL                                                             | 84.000 | 84.000 | 84.000 | 84.000 |

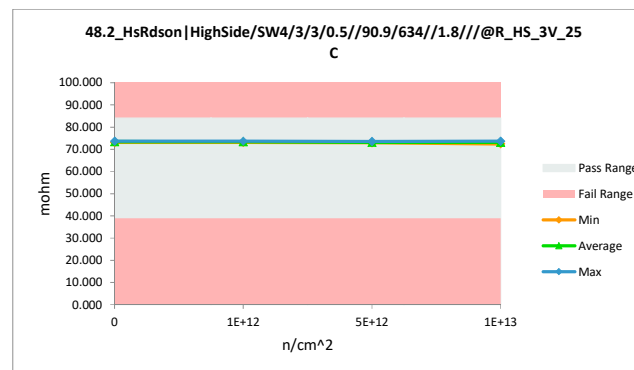


## NDD Report TPS7H4102-SP

| 48.2_HsRdson HighSide/SW4/3/3/0.5//90.9/634//1.8///@R_HS_3V_25 |          |                     |                    |         |
|----------------------------------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                                                      |          |                     |                    |         |
| Tester                                                         |          |                     |                    |         |
| Test Number                                                    |          |                     |                    |         |
| Unit                                                           | mohm     |                     | mohm               |         |
| Max Limit                                                      | 88       |                     | 84                 |         |
| Min Limit                                                      | 30       |                     | 39                 |         |
| n/cm^2                                                         | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                                              | 1        | 84.066              | 73.579             | -10.487 |
| 0                                                              | 2        | 84.900              | 73.657             | -11.243 |
| 0                                                              | 3        | 84.978              | 73.135             | -11.843 |
| 1E+12                                                          | 30       | 85.015              | 73.088             | -11.926 |
| 1E+12                                                          | 31       | 86.225              | 73.573             | -12.653 |
| 1E+12                                                          | 32       | 86.185              | 73.201             | -12.984 |
| 1E+12                                                          | 33       | 83.426              | 73.720             | -9.706  |
| 5E+12                                                          | 34       | 85.334              | 73.168             | -12.166 |
| 5E+12                                                          | 35       | 84.761              | 72.926             | -11.836 |
| 5E+12                                                          | 36       | 84.107              | 72.925             | -11.182 |
| 5E+12                                                          | 37       | 83.784              | 73.576             | -10.207 |
| 1E+13                                                          | 38       | 80.828              | 73.192             | -7.636  |
| 1E+13                                                          | 39       | 79.045              | 73.356             | -5.688  |
| 1E+13                                                          | 40       | 79.461              | 72.472             | -6.989  |
| 1E+13                                                          | 41       | 79.221              | 73.669             | -5.552  |
|                                                                | Max      | 86.225              | 73.720             | -5.552  |
|                                                                | Average  | 83.422              | 73.283             | -10.140 |
|                                                                | Min      | 79.045              | 72.472             | -12.984 |
|                                                                | Std Dev  | 2.512               | 0.353              | 2.495   |

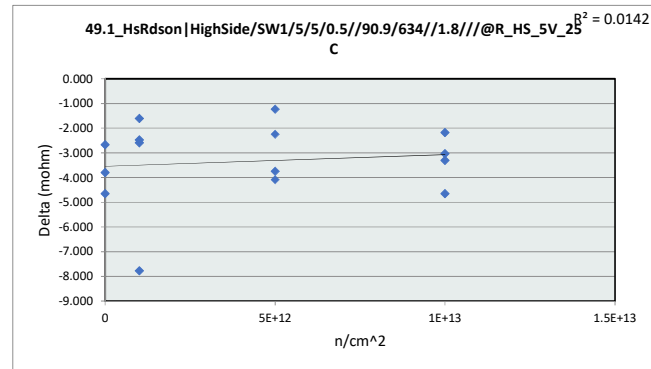


| 48.2_HsRdson HighSide/SW4/3/3/0.5//90.9/634//1.8///@R_HS_3V_25 |        |        |        |        |
|----------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                      |        |        |        |        |
| Tester                                                         |        |        |        |        |
| Test Number                                                    |        |        |        |        |
| Max Limit                                                      | 84     |        | mohm   |        |
| Min Limit                                                      | 39     |        | mohm   |        |
| n/cm^2                                                         | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                             | 39.000 | 39.000 | 39.000 | 39.000 |
| Min                                                            | 73.135 | 73.088 | 72.925 | 72.472 |
| Average                                                        | 73.457 | 73.395 | 73.149 | 73.172 |
| Max                                                            | 73.657 | 73.720 | 73.577 | 73.669 |
| UL                                                             | 84.000 | 84.000 | 84.000 | 84.000 |

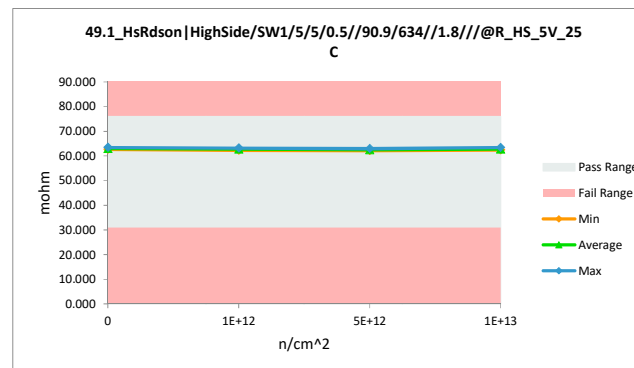


## NDD Report TPS7H4102-SP

| 49.1_HsRdson HighSide/SW1/5/5/0.5//90.9/634//1.8///@R_HS_SV_25 |          |                     |                    |        |
|----------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                      |          |                     |                    |        |
| Tester                                                         |          |                     |                    |        |
| Test Number                                                    |          |                     |                    |        |
| Unit                                                           | mohm     |                     | mohm               |        |
| Max Limit                                                      | 80       |                     | 76                 |        |
| Min Limit                                                      | 22       |                     | 31                 |        |
| n/cm^2                                                         | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                              | 1        | 66.099              | 63.420             | -2.679 |
| 0                                                              | 2        | 67.269              | 62.614             | -4.654 |
| 0                                                              | 3        | 66.673              | 62.865             | -3.808 |
| 1E+12                                                          | 30       | 70.360              | 62.581             | -7.779 |
| 1E+12                                                          | 31       | 65.766              | 63.170             | -2.596 |
| 1E+12                                                          | 32       | 65.377              | 62.900             | -2.477 |
| 1E+12                                                          | 33       | 63.898              | 62.288             | -1.610 |
| 5E+12                                                          | 34       | 66.715              | 62.621             | -4.094 |
| 5E+12                                                          | 35       | 66.032              | 62.280             | -3.752 |
| 5E+12                                                          | 36       | 64.411              | 62.160             | -2.251 |
| 5E+12                                                          | 37       | 64.175              | 62.941             | -1.234 |
| 1E+13                                                          | 38       | 67.484              | 62.830             | -4.654 |
| 1E+13                                                          | 39       | 65.425              | 62.380             | -3.045 |
| 1E+13                                                          | 40       | 65.778              | 62.470             | -3.309 |
| 1E+13                                                          | 41       | 65.587              | 63.408             | -2.179 |
|                                                                | Max      | 70.360              | 63.420             | -1.234 |
|                                                                | Average  | 66.070              | 62.729             | -3.341 |
|                                                                | Min      | 63.898              | 62.160             | -7.779 |
|                                                                | Std Dev  | 1.581               | 0.396              | 1.601  |



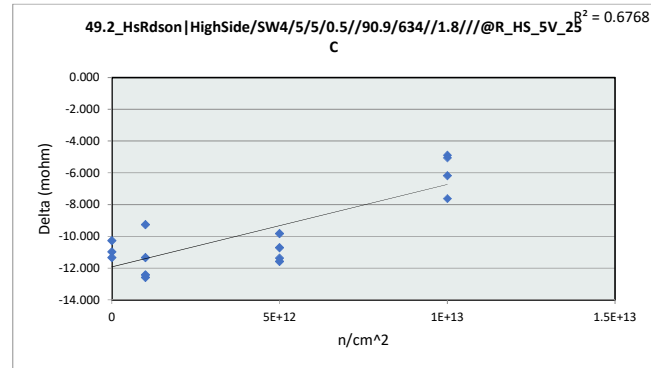
| 49.1_HsRdson HighSide/SW1/5/5/0.5//90.9/634//1.8///@R_HS_SV_25 |        |        |        |        |
|----------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                      |        |        |        |        |
| Tester                                                         |        |        |        |        |
| Test Number                                                    |        |        |        |        |
| Max Limit                                                      | 76     |        | mohm   |        |
| Min Limit                                                      | 31     |        | mohm   |        |
| n/cm^2                                                         | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                             | 31.000 | 31.000 | 31.000 | 31.000 |
| Min                                                            | 62.615 | 62.288 | 62.160 | 62.380 |
| Average                                                        | 62.967 | 62.735 | 62.501 | 62.772 |
| Max                                                            | 63.420 | 63.170 | 62.941 | 63.408 |
| UL                                                             | 76.000 | 76.000 | 76.000 | 76.000 |



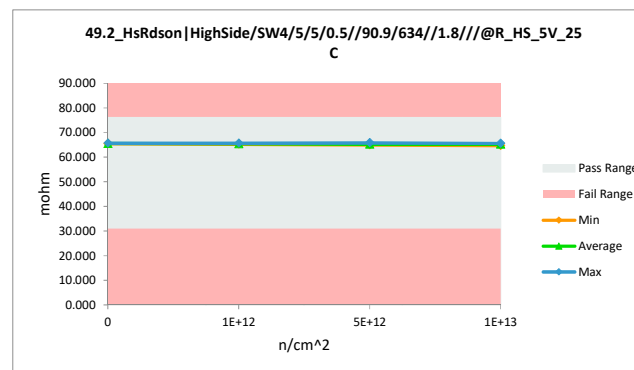


## NDD Report TPS7H4102-SP

| 49.2_HsRdson HighSide/SW4/5/5/0.5//90.9/634//1.8///@R_HS_SV_25 |          |                     |                    |         |
|----------------------------------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                                                      |          |                     |                    |         |
| Tester                                                         |          |                     |                    |         |
| Test Number                                                    |          |                     |                    |         |
| Unit                                                           | mohm     |                     | mohm               |         |
| Max Limit                                                      | 80       |                     | 76                 |         |
| Min Limit                                                      | 22       |                     | 31                 |         |
| n/cm^2                                                         | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                                              | 1        | 75.928              | 65.651             | -10.277 |
| 0                                                              | 2        | 76.810              | 65.466             | -11.344 |
| 0                                                              | 3        | 76.424              | 65.434             | -10.990 |
| 1E+12                                                          | 30       | 76.587              | 65.239             | -11.348 |
| 1E+12                                                          | 31       | 78.111              | 65.516             | -12.595 |
| 1E+12                                                          | 32       | 77.689              | 65.251             | -12.439 |
| 1E+12                                                          | 33       | 74.928              | 65.657             | -9.271  |
| 5E+12                                                          | 34       | 76.827              | 65.233             | -11.594 |
| 5E+12                                                          | 35       | 76.281              | 64.900             | -11.382 |
| 5E+12                                                          | 36       | 75.747              | 65.015             | -10.732 |
| 5E+12                                                          | 37       | 75.596              | 65.765             | -9.831  |
| 1E+13                                                          | 38       | 72.920              | 65.290             | -7.630  |
| 1E+13                                                          | 39       | 70.509              | 65.596             | -4.913  |
| 1E+13                                                          | 40       | 70.852              | 64.660             | -6.192  |
| 1E+13                                                          | 41       | 70.640              | 65.566             | -5.074  |
|                                                                | Max      | 78.111              | 65.765             | -4.913  |
|                                                                | Average  | 75.057              | 65.349             | -9.707  |
|                                                                | Min      | 70.509              | 64.660             | -12.595 |
|                                                                | Std Dev  | 2.566               | 0.310              | 2.562   |

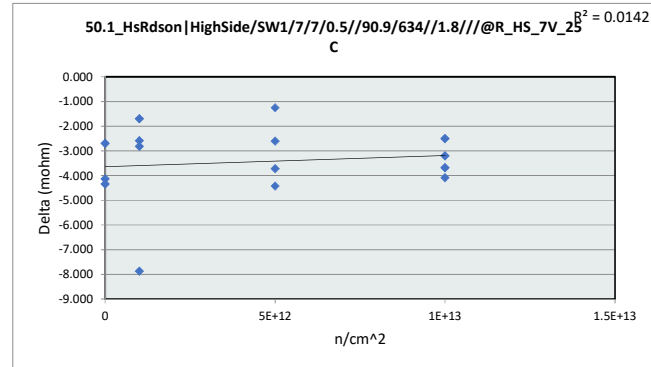


| 49.2_HsRdson HighSide/SW4/5/5/0.5//90.9/634//1.8///@R_HS_SV_25 |        |        |        |        |
|----------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                      |        |        |        |        |
| Tester                                                         |        |        |        |        |
| Test Number                                                    |        |        |        |        |
| Max Limit                                                      | 76     |        | mohm   |        |
| Min Limit                                                      | 31     |        | mohm   |        |
| n/cm^2                                                         | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                             | 31.000 | 31.000 | 31.000 | 31.000 |
| Min                                                            | 65.434 | 65.239 | 64.900 | 64.660 |
| Average                                                        | 65.517 | 65.416 | 65.228 | 65.278 |
| Max                                                            | 65.651 | 65.657 | 65.765 | 65.596 |
| UL                                                             | 76.000 | 76.000 | 76.000 | 76.000 |

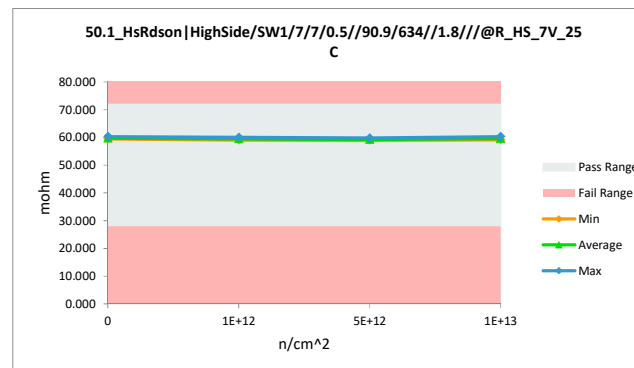


## NDD Report TPS7H4102-SP

| 50.1_HsRdson HighSide/SW1/7/7/0.5//90.9/634//1.8///@R_HS_7V_25 |          |                     |                    |        |
|----------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                      |          |                     |                    |        |
| Tester                                                         |          |                     |                    |        |
| Test Number                                                    |          |                     |                    |        |
| Unit                                                           | mohm     | mohm                |                    |        |
| Max Limit                                                      | 76       | 72                  |                    |        |
| Min Limit                                                      | 19.2     | 28                  |                    |        |
| n/cm^2                                                         | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                              | 1        | 62.980              | 60.278             | -2.702 |
| 0                                                              | 2        | 63.838              | 59.487             | -4.351 |
| 0                                                              | 3        | 63.628              | 59.488             | -4.140 |
| 1E+12                                                          | 30       | 67.255              | 59.378             | -7.876 |
| 1E+12                                                          | 31       | 62.573              | 59.979             | -2.594 |
| 1E+12                                                          | 32       | 62.437              | 59.611             | -2.827 |
| 1E+12                                                          | 33       | 60.710              | 59.007             | -1.703 |
| 5E+12                                                          | 34       | 63.723              | 59.290             | -4.433 |
| 5E+12                                                          | 35       | 62.791              | 59.062             | -3.729 |
| 5E+12                                                          | 36       | 61.545              | 58.931             | -2.614 |
| 5E+12                                                          | 37       | 60.994              | 59.737             | -1.256 |
| 1E+13                                                          | 38       | 63.875              | 59.780             | -4.095 |
| 1E+13                                                          | 39       | 62.419              | 59.205             | -3.215 |
| 1E+13                                                          | 40       | 62.926              | 59.239             | -3.687 |
| 1E+13                                                          | 41       | 62.769              | 60.256             | -2.513 |
|                                                                | Max      | 67.255              | 60.278             | -1.256 |
|                                                                | Average  | 62.964              | 59.515             | -3.449 |
|                                                                | Min      | 60.710              | 58.931             | -7.876 |
|                                                                | Std Dev  | 1.530               | 0.424              | 1.549  |

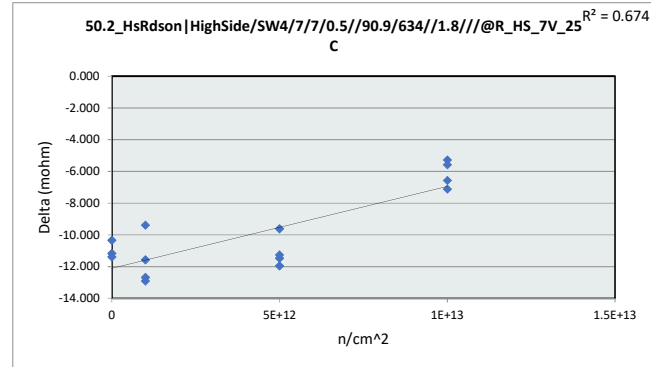


| 50.1_HsRdson HighSide/SW1/7/7/0.5//90.9/634//1.8///@R_HS_7V_25 |        |        |        |        |
|----------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                      |        |        |        |        |
| Tester                                                         |        |        |        |        |
| Test Number                                                    |        |        |        |        |
| Max Limit                                                      | 72     | mohm   |        |        |
| Min Limit                                                      | 28     | mohm   |        |        |
| n/cm^2                                                         | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                             | 28.000 | 28.000 | 28.000 | 28.000 |
| Min                                                            | 59.487 | 59.007 | 58.931 | 59.205 |
| Average                                                        | 59.751 | 59.494 | 59.255 | 59.620 |
| Max                                                            | 60.278 | 59.979 | 59.737 | 60.256 |
| UL                                                             | 72.000 | 72.000 | 72.000 | 72.000 |

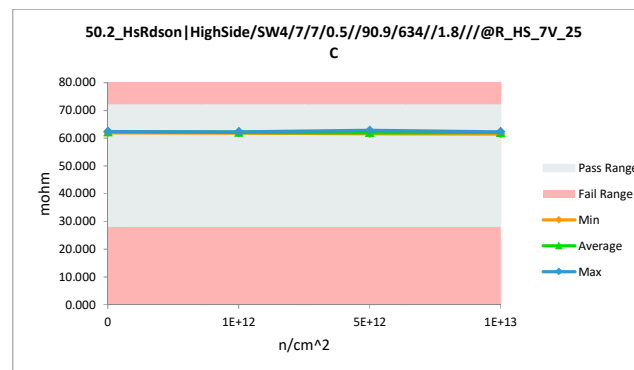


## NDD Report TPS7H4102-SP

| 50.2_HsRdson HighSide/SW4/7/7/0.5//1.8//@R_HS_7V_25 |          |                     |                    |         |
|-----------------------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                                           |          |                     |                    |         |
| Tester                                              |          |                     |                    |         |
| Test Number                                         |          |                     |                    |         |
| Unit                                                | mohm     | mohm                |                    |         |
| Max Limit                                           | 76       | 72                  |                    |         |
| Min Limit                                           | 19.2     | 28                  |                    |         |
| n/cm^2                                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                                   | 1        | 72.780              | 62.416             | -10.365 |
| 0                                                   | 2        | 73.527              | 62.337             | -11.191 |
| 0                                                   | 3        | 73.427              | 62.007             | -11.420 |
| 1E+12                                               | 30       | 73.564              | 61.969             | -11.595 |
| 1E+12                                               | 31       | 74.947              | 62.248             | -12.699 |
| 1E+12                                               | 32       | 74.809              | 61.876             | -12.933 |
| 1E+12                                               | 33       | 71.741              | 62.339             | -9.402  |
| 5E+12                                               | 34       | 73.799              | 61.825             | -11.973 |
| 5E+12                                               | 35       | 73.079              | 61.583             | -11.496 |
| 5E+12                                               | 36       | 72.976              | 61.700             | -11.276 |
| 5E+12                                               | 37       | 72.455              | 62.809             | -9.647  |
| 1E+13                                               | 38       | 69.336              | 62.202             | -7.134  |
| 1E+13                                               | 39       | 67.602              | 62.296             | -5.306  |
| 1E+13                                               | 40       | 68.057              | 61.461             | -6.596  |
| 1E+13                                               | 41       | 67.910              | 62.301             | -5.609  |
|                                                     | Max      | 74.947              | 62.809             | -5.306  |
|                                                     | Average  | 72.001              | 62.091             | -9.909  |
|                                                     | Min      | 67.602              | 61.461             | -12.933 |
|                                                     | Std Dev  | 2.512               | 0.360              | 2.553   |

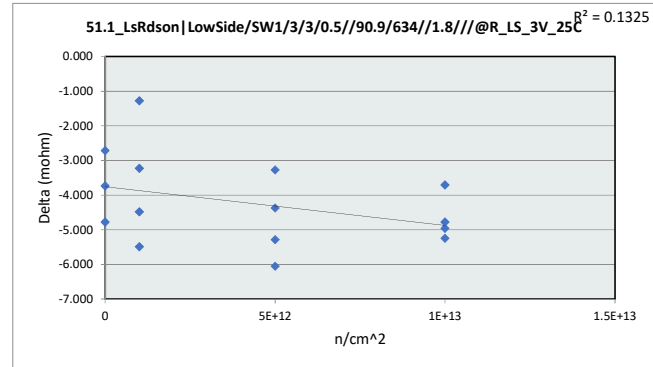


| 50.2_HsRdson HighSide/SW4/7/7/0.5//1.8//@R_HS_7V_25 |        |        |        |        |
|-----------------------------------------------------|--------|--------|--------|--------|
| Test Site                                           |        |        |        |        |
| Tester                                              |        |        |        |        |
| Test Number                                         |        |        |        |        |
| Max Limit                                           | 72     | mohm   |        |        |
| Min Limit                                           | 28     | mohm   |        |        |
| n/cm^2                                              | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                  | 28.000 | 28.000 | 28.000 | 28.000 |
| Min                                                 | 62.007 | 61.877 | 61.583 | 61.461 |
| Average                                             | 62.253 | 62.108 | 61.979 | 62.065 |
| Max                                                 | 62.416 | 62.339 | 62.809 | 62.301 |
| UL                                                  | 72.000 | 72.000 | 72.000 | 72.000 |

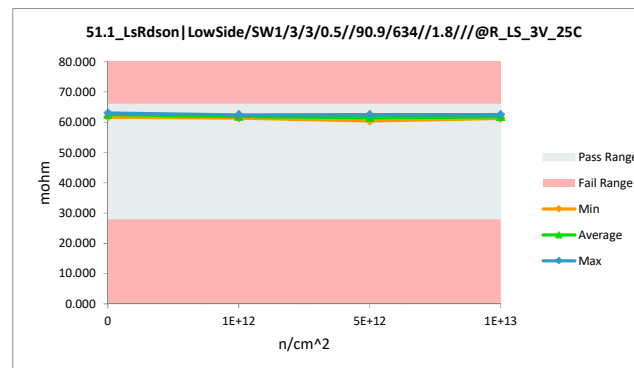


## NDD Report TPS7H4102-SP

| 51.1_LsRdson   LowSide/SW1/3/3/0.5//9 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | mohm     |                     | mohm               |        |
| Max Limit                             | 68       |                     | 66                 |        |
| Min Limit                             | 20.4     |                     | 28                 |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 67.835              | 63.046             | -4.789 |
| 0                                     | 2        | 65.755              | 63.035             | -2.721 |
| 0                                     | 3        | 65.436              | 61.697             | -3.740 |
| 1E+12                                 | 30       | 67.102              | 61.603             | -5.499 |
| 1E+12                                 | 31       | 66.953              | 62.465             | -4.488 |
| 1E+12                                 | 32       | 63.592              | 62.309             | -1.284 |
| 1E+12                                 | 33       | 64.597              | 61.361             | -3.235 |
| 5E+12                                 | 34       | 65.877              | 61.499             | -4.378 |
| 5E+12                                 | 35       | 64.732              | 61.460             | -3.273 |
| 5E+12                                 | 36       | 66.540              | 60.481             | -6.059 |
| 5E+12                                 | 37       | 67.777              | 62.486             | -5.291 |
| 1E+13                                 | 38       | 67.399              | 62.148             | -5.250 |
| 1E+13                                 | 39       | 66.080              | 61.301             | -4.779 |
| 1E+13                                 | 40       | 66.401              | 61.436             | -4.965 |
| 1E+13                                 | 41       | 66.180              | 62.470             | -3.710 |
|                                       | Max      | 67.835              | 63.046             | -1.284 |
|                                       | Average  | 66.150              | 61.920             | -4.231 |
|                                       | Min      | 63.592              | 60.481             | -6.059 |
|                                       | Std Dev  | 1.211               | 0.716              | 1.246  |

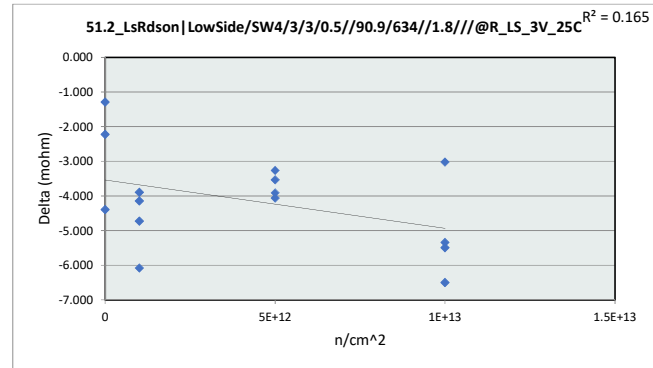


| 51.1_LsRdson   LowSide/SW1/3/3/0.5//9 |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|
| Test Site                             |        |        |        |        |
| Tester                                |        |        |        |        |
| Test Number                           |        |        |        |        |
| Max Limit                             | 66     |        | mohm   |        |
| Min Limit                             | 28     |        | mohm   |        |
| n/cm^2                                | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                    | 28.000 | 28.000 | 28.000 | 28.000 |
| Min                                   | 61.697 | 61.361 | 60.481 | 61.301 |
| Average                               | 62.592 | 61.934 | 61.481 | 61.839 |
| Max                                   | 63.046 | 62.465 | 62.486 | 62.470 |
| UL                                    | 66.000 | 66.000 | 66.000 | 66.000 |

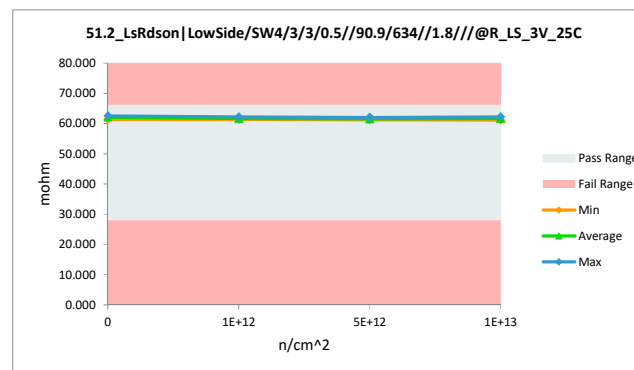


## NDD Report TPS7H4102-SP

| 51.2_LsRdson   LowSide/SW4/3/3/0.5//9 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | mohm     |                     | mohm               |        |
| Max Limit                             | 68       |                     | 66                 |        |
| Min Limit                             | 20.4     |                     | 28                 |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 66.812              | 62.412             | -4.400 |
| 0                                     | 2        | 63.833              | 62.535             | -1.298 |
| 0                                     | 3        | 63.640              | 61.407             | -2.233 |
| 1E+12                                 | 30       | 66.100              | 61.362             | -4.737 |
| 1E+12                                 | 31       | 66.093              | 62.196             | -3.897 |
| 1E+12                                 | 32       | 65.974              | 61.820             | -4.154 |
| 1E+12                                 | 33       | 67.583              | 61.496             | -6.087 |
| 5E+12                                 | 34       | 65.015              | 61.473             | -3.542 |
| 5E+12                                 | 35       | 65.184              | 61.269             | -3.915 |
| 5E+12                                 | 36       | 65.522              | 61.454             | -4.068 |
| 5E+12                                 | 37       | 65.291              | 62.020             | -3.271 |
| 1E+13                                 | 38       | 64.963              | 61.931             | -3.031 |
| 1E+13                                 | 39       | 66.983              | 61.635             | -5.348 |
| 1E+13                                 | 40       | 67.653              | 61.149             | -6.504 |
| 1E+13                                 | 41       | 67.696              | 62.191             | -5.505 |
|                                       | Max      | 67.696              | 62.535             | -1.298 |
|                                       | Average  | 65.889              | 61.757             | -4.133 |
|                                       | Min      | 63.640              | 61.149             | -6.504 |
|                                       | Std Dev  | 1.290               | 0.436              | 1.396  |

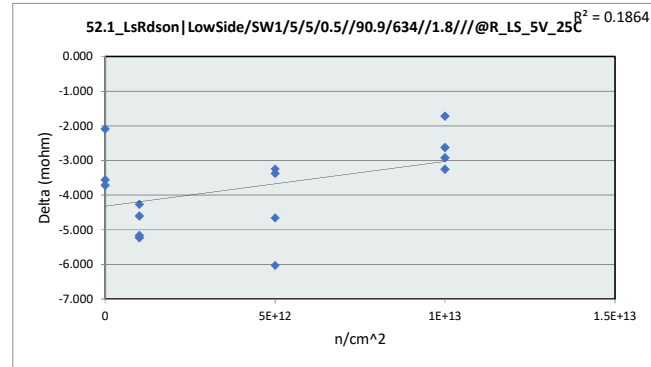


| 51.2_LsRdson   LowSide/SW4/3/3/0.5//9 |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|
| Test Site                             |        |        |        |        |
| Tester                                |        |        |        |        |
| Test Number                           |        |        |        |        |
| Max Limit                             | 66     |        | mohm   |        |
| Min Limit                             | 28     |        | mohm   |        |
| n/cm^2                                | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                    | 28.000 | 28.000 | 28.000 | 28.000 |
| Min                                   | 61.407 | 61.362 | 61.269 | 61.149 |
| Average                               | 62.118 | 61.719 | 61.554 | 61.727 |
| Max                                   | 62.535 | 62.196 | 62.020 | 62.191 |
| UL                                    | 66.000 | 66.000 | 66.000 | 66.000 |

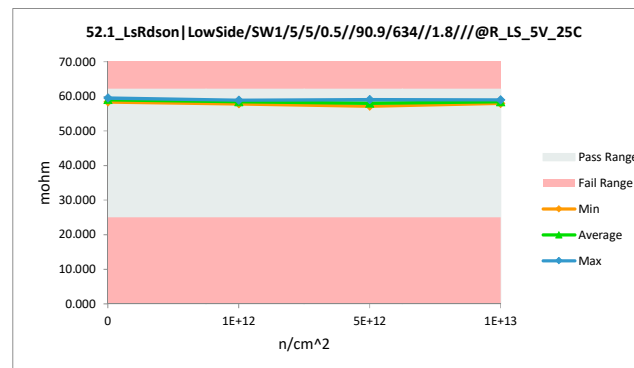


## NDD Report TPS7H4102-SP

| 52.1_LsRdson   LowSide/SW1/5/5/0.5//9 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | mohm     |                     | mohm               |        |
| Max Limit                             | 64       |                     | 62                 |        |
| Min Limit                             | 17.6     |                     | 25                 |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 63.062              | 59.497             | -3.565 |
| 0                                     | 2        | 61.374              | 59.276             | -2.098 |
| 0                                     | 3        | 62.058              | 58.337             | -3.721 |
| 1E+12                                 | 30       | 63.488              | 58.315             | -5.173 |
| 1E+12                                 | 31       | 63.466              | 58.858             | -4.609 |
| 1E+12                                 | 32       | 63.104              | 58.829             | -4.275 |
| 1E+12                                 | 33       | 63.035              | 57.799             | -5.236 |
| 5E+12                                 | 34       | 61.363              | 57.982             | -3.381 |
| 5E+12                                 | 35       | 61.104              | 57.857             | -3.246 |
| 5E+12                                 | 36       | 63.167              | 57.128             | -6.039 |
| 5E+12                                 | 37       | 63.715              | 59.044             | -4.670 |
| 1E+13                                 | 38       | 61.898              | 58.642             | -3.256 |
| 1E+13                                 | 39       | 60.594              | 57.960             | -2.635 |
| 1E+13                                 | 40       | 60.903              | 57.974             | -2.928 |
| 1E+13                                 | 41       | 60.687              | 58.957             | -1.730 |
|                                       | Max      | 63.715              | 59.497             | -1.730 |
|                                       | Average  | 62.201              | 58.430             | -3.771 |
|                                       | Min      | 60.594              | 57.128             | -6.039 |
|                                       | Std Dev  | 1.134               | 0.653              | 1.217  |

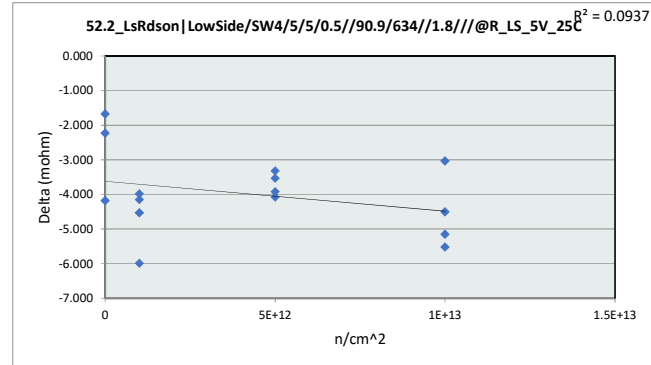


| 52.1_LsRdson   LowSide/SW1/5/5/0.5//90.9/634//1.8///@R_LS_5V_25C |        |        |        |        |
|------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                        |        |        |        |        |
| Tester                                                           |        |        |        |        |
| Test Number                                                      |        |        |        |        |
| Max Limit                                                        | 62     |        | mohm   |        |
| Min Limit                                                        | 25     |        | mohm   |        |
| n/cm^2                                                           | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                               | 25.000 | 25.000 | 25.000 | 25.000 |
| Min                                                              | 58.337 | 57.799 | 57.128 | 57.960 |
| Average                                                          | 59.037 | 58.450 | 58.003 | 58.383 |
| Max                                                              | 59.497 | 58.858 | 59.045 | 58.957 |
| UL                                                               | 62.000 | 62.000 | 62.000 | 62.000 |

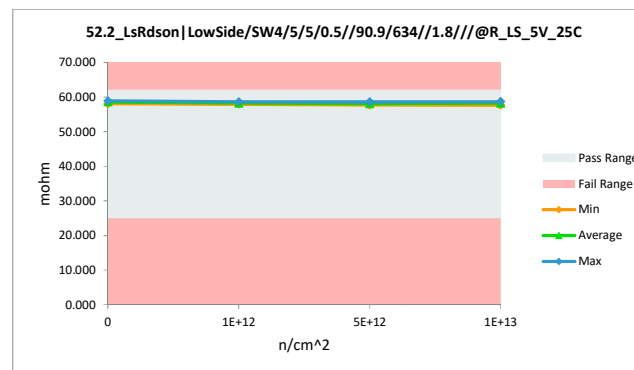


## NDD Report TPS7H4102-SP

| 52.2_LsRdson   LowSide/SW4/5/5/0.5/ /90.9/634/ /1.8/ /@R_LS_5V_25C |          |                     |                    |        |
|--------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                          |          |                     |                    |        |
| Tester                                                             |          |                     |                    |        |
| Test Number                                                        |          |                     |                    |        |
| Unit                                                               | mohm     |                     | mohm               |        |
| Max Limit                                                          | 64       |                     | 62                 |        |
| Min Limit                                                          | 17.6     |                     | 25                 |        |
| n/cm^2                                                             | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                  | 1        | 63.093              | 58.914             | -4.180 |
| 0                                                                  | 2        | 60.498              | 58.817             | -1.681 |
| 0                                                                  | 3        | 60.306              | 58.077             | -2.228 |
| 1E+12                                                              | 30       | 62.624              | 58.088             | -4.536 |
| 1E+12                                                              | 31       | 62.623              | 58.636             | -3.987 |
| 1E+12                                                              | 32       | 62.501              | 58.352             | -4.149 |
| 1E+12                                                              | 33       | 63.933              | 57.943             | -5.989 |
| 5E+12                                                              | 34       | 61.497              | 57.961             | -3.536 |
| 5E+12                                                              | 35       | 61.617              | 57.696             | -3.921 |
| 5E+12                                                              | 36       | 62.185              | 58.105             | -4.079 |
| 5E+12                                                              | 37       | 61.953              | 58.636             | -3.317 |
| 1E+13                                                              | 38       | 61.497              | 58.457             | -3.040 |
| 1E+13                                                              | 39       | 63.490              | 58.336             | -5.153 |
| 1E+13                                                              | 40       | 63.218              | 57.691             | -5.527 |
| 1E+13                                                              | 41       | 63.188              | 58.680             | -4.508 |
|                                                                    | Max      | 63.933              | 58.914             | -1.681 |
|                                                                    | Average  | 62.281              | 58.293             | -3.989 |
|                                                                    | Min      | 60.306              | 57.691             | -5.989 |
|                                                                    | Std Dev  | 1.059               | 0.392              | 1.145  |

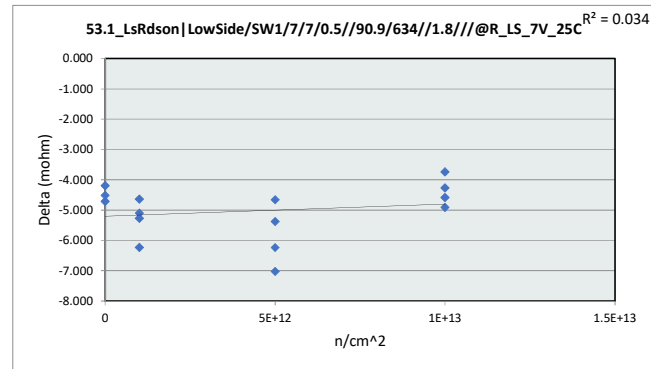


| 52.2_LsRdson   LowSide/SW4/5/5/0.5/ /90.9/634/ /1.8/ /@R_LS_5V_25C |        |        |        |        |
|--------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                          |        |        |        |        |
| Tester                                                             |        |        |        |        |
| Test Number                                                        |        |        |        |        |
| Max Limit                                                          | 62     |        | mohm   |        |
| Min Limit                                                          | 25     |        | mohm   |        |
| n/cm^2                                                             | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                                 | 25.000 | 25.000 | 25.000 | 25.000 |
| Min                                                                | 58.077 | 57.943 | 57.696 | 57.691 |
| Average                                                            | 58.603 | 58.255 | 58.100 | 58.291 |
| Max                                                                | 58.914 | 58.636 | 58.636 | 58.680 |
| UL                                                                 | 62.000 | 62.000 | 62.000 | 62.000 |

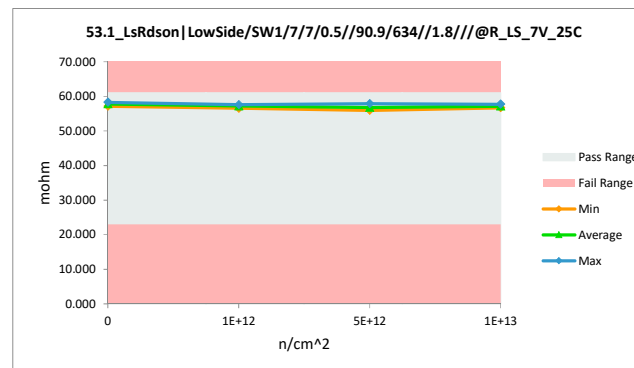


## NDD Report TPS7H4102-SP

| 53.1_LsRdson   LowSide/SW1/7/7/0.5//9 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | mohm     |                     | mohm               |        |
| Max Limit                             | 63       |                     | 61                 |        |
| Min Limit                             | 15.4     |                     | 23                 |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 62.773              | 58.256             | -4.517 |
| 0                                     | 2        | 62.176              | 57.982             | -4.194 |
| 0                                     | 3        | 61.858              | 57.144             | -4.714 |
| 1E+12                                 | 30       | 62.228              | 57.131             | -5.097 |
| 1E+12                                 | 31       | 62.239              | 57.595             | -4.644 |
| 1E+12                                 | 32       | 62.876              | 57.602             | -5.274 |
| 1E+12                                 | 33       | 62.799              | 56.564             | -6.235 |
| 5E+12                                 | 34       | 62.131              | 56.751             | -5.380 |
| 5E+12                                 | 35       | 62.850              | 56.609             | -6.241 |
| 5E+12                                 | 36       | 62.951              | 55.927             | -7.024 |
| 5E+12                                 | 37       | 62.507              | 57.846             | -4.660 |
| 1E+13                                 | 38       | 61.679              | 57.410             | -4.268 |
| 1E+13                                 | 39       | 61.358              | 56.771             | -4.587 |
| 1E+13                                 | 40       | 61.660              | 56.753             | -4.907 |
| 1E+13                                 | 41       | 61.455              | 57.713             | -3.742 |
|                                       | Max      | 62.951              | 58.256             | -3.742 |
|                                       | Average  | 62.236              | 57.204             | -5.032 |
|                                       | Min      | 61.358              | 55.927             | -7.024 |
|                                       | Std Dev  | 0.545               | 0.640              | 0.882  |



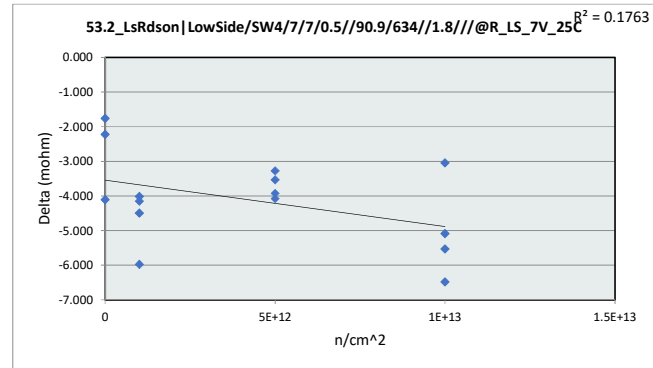
| 53.1_LsRdson   LowSide/SW1/7/7/0.5//90.9/634//1.8///@R_LS_7V_25C |        |        |        |        |
|------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                        |        |        |        |        |
| Tester                                                           |        |        |        |        |
| Test Number                                                      |        |        |        |        |
| Max Limit                                                        | 61     |        | mohm   |        |
| Min Limit                                                        | 23     |        | mohm   |        |
| n/cm^2                                                           | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                               | 23.000 | 23.000 | 23.000 | 23.000 |
| Min                                                              | 57.144 | 56.564 | 55.927 | 56.753 |
| Average                                                          | 57.794 | 57.223 | 56.783 | 57.162 |
| Max                                                              | 58.256 | 57.602 | 57.846 | 57.713 |
| UL                                                               | 61.000 | 61.000 | 61.000 | 61.000 |



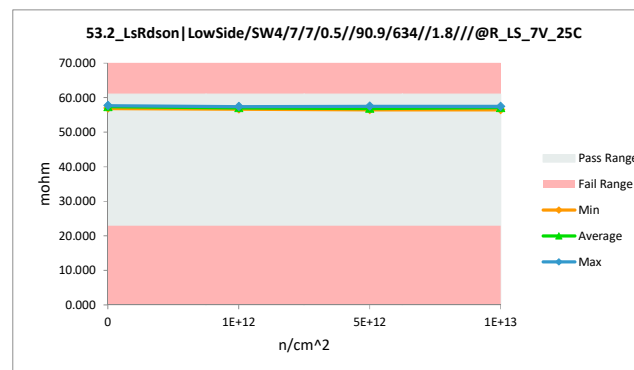


## NDD Report TPS7H4102-SP

| 53.2_LsRdson   LowSide/SW4/7/7/0.5//9 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | mohm     |                     | mohm               |        |
| Max Limit                             | 63       |                     | 61                 |        |
| Min Limit                             | 15.4     |                     | 23                 |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 61.800              | 57.684             | -4.116 |
| 0                                     | 2        | 59.306              | 57.539             | -1.767 |
| 0                                     | 3        | 59.115              | 56.890             | -2.225 |
| 1E+12                                 | 30       | 61.398              | 56.901             | -4.497 |
| 1E+12                                 | 31       | 61.400              | 57.383             | -4.017 |
| 1E+12                                 | 32       | 61.282              | 57.127             | -4.155 |
| 1E+12                                 | 33       | 62.688              | 56.706             | -5.982 |
| 5E+12                                 | 34       | 60.262              | 56.724             | -3.538 |
| 5E+12                                 | 35       | 60.384              | 56.454             | -3.930 |
| 5E+12                                 | 36       | 60.981              | 56.904             | -4.077 |
| 5E+12                                 | 37       | 60.753              | 57.470             | -3.283 |
| 1E+13                                 | 38       | 60.281              | 57.234             | -3.048 |
| 1E+13                                 | 39       | 62.250              | 57.155             | -5.095 |
| 1E+13                                 | 40       | 62.955              | 56.472             | -6.483 |
| 1E+13                                 | 41       | 62.975              | 57.440             | -5.534 |
|                                       | Max      | 62.975              | 57.684             | -1.767 |
|                                       | Average  | 61.189              | 57.072             | -4.117 |
|                                       | Min      | 59.115              | 56.454             | -6.483 |
|                                       | Std Dev  | 1.212               | 0.388              | 1.296  |

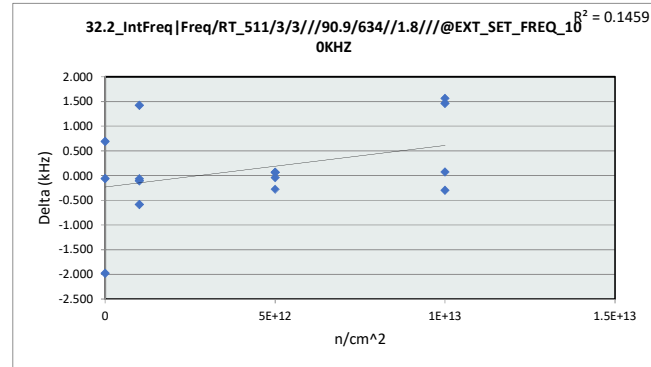


| 53.2_LsRdson   LowSide/SW4/7/7/0.5//90.9/634//1.8///@R_LS_7V_25C |        |        |        |        |
|------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                        |        |        |        |        |
| Tester                                                           |        |        |        |        |
| Test Number                                                      |        |        |        |        |
| Max Limit                                                        | 61     |        | mohm   |        |
| Min Limit                                                        | 23     |        | mohm   |        |
| n/cm^2                                                           | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                               | 23.000 | 23.000 | 23.000 | 23.000 |
| Min                                                              | 56.890 | 56.706 | 56.454 | 56.472 |
| Average                                                          | 57.371 | 57.029 | 56.888 | 57.075 |
| Max                                                              | 57.684 | 57.383 | 57.470 | 57.441 |
| UL                                                               | 61.000 | 61.000 | 61.000 | 61.000 |

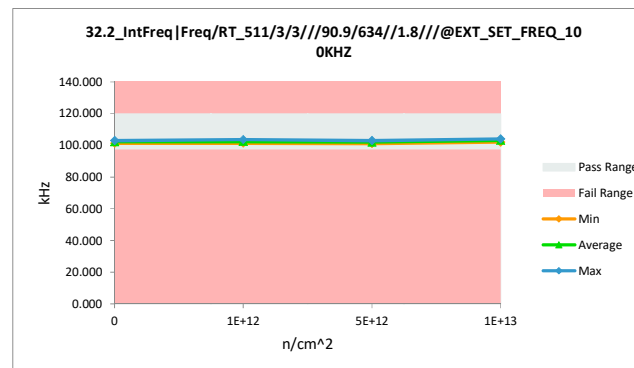


## NDD Report TPS7H4102-SP

| 32.2_IntFreq Freq/RT_511/3/3///90.9/634//1.8///@EXT_SET_FREQ_10 OKHZ |          |                     |                    |        |
|----------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                            |          |                     |                    |        |
| Tester                                                               |          |                     |                    |        |
| Test Number                                                          |          |                     |                    |        |
| Unit                                                                 | kHz      |                     | kHz                |        |
| Max Limit                                                            | 120      |                     | 119.7              |        |
| Min Limit                                                            | 97       |                     | 97.3               |        |
| n/cm^2                                                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                    | 1        | 103.192             | 101.212            | -1.981 |
| 0                                                                    | 2        | 102.339             | 103.026            | 0.688  |
| 0                                                                    | 3        | 102.377             | 102.316            | -0.061 |
| 1E+12                                                                | 30       | 102.173             | 103.592            | 1.419  |
| 1E+12                                                                | 31       | 102.692             | 102.102            | -0.590 |
| 1E+12                                                                | 32       | 102.640             | 102.531            | -0.109 |
| 1E+12                                                                | 33       | 101.413             | 101.348            | -0.065 |
| 5E+12                                                                | 34       | 101.311             | 101.033            | -0.278 |
| 5E+12                                                                | 35       | 101.181             | 101.139            | -0.042 |
| 5E+12                                                                | 36       | 102.882             | 102.940            | 0.058  |
| 5E+12                                                                | 37       | 102.896             | 102.962            | 0.066  |
| 1E+13                                                                | 38       | 102.296             | 101.995            | -0.301 |
| 1E+13                                                                | 39       | 102.465             | 103.926            | 1.461  |
| 1E+13                                                                | 40       | 102.470             | 104.031            | 1.561  |
| 1E+13                                                                | 41       | 102.479             | 102.549            | 0.070  |
|                                                                      | Max      | 103.192             | 104.031            | 1.561  |
|                                                                      | Average  | 102.320             | 102.447            | 0.126  |
|                                                                      | Min      | 101.181             | 101.033            | -1.981 |
|                                                                      | Std Dev  | 0.590               | 0.987              | 0.898  |

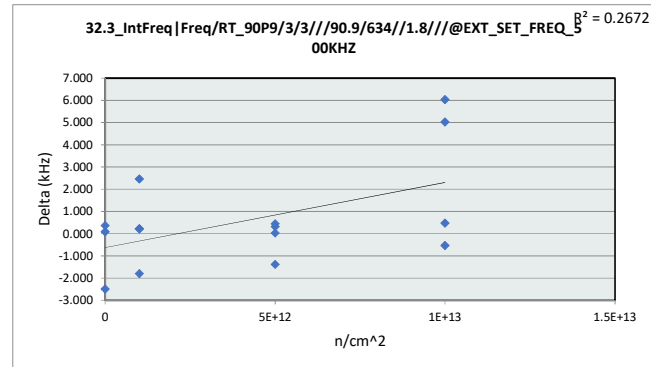


| 32.2_IntFreq Freq/RT_511/3/3///90.9/634//1.8///@EXT_SET_FREQ_10 OKHZ |         |         |         |         |
|----------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                            |         |         |         |         |
| Tester                                                               |         |         |         |         |
| Test Number                                                          |         |         |         |         |
| Max Limit                                                            | 119.7   |         | kHz     |         |
| Min Limit                                                            | 97.3    |         | kHz     |         |
| n/cm^2                                                               | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                                   | 97.300  | 97.300  | 97.300  | 97.300  |
| Min                                                                  | 101.212 | 101.348 | 101.033 | 101.995 |
| Average                                                              | 102.185 | 102.393 | 102.019 | 103.125 |
| Max                                                                  | 103.026 | 103.592 | 102.962 | 104.031 |
| UL                                                                   | 119.700 | 119.700 | 119.700 | 119.700 |

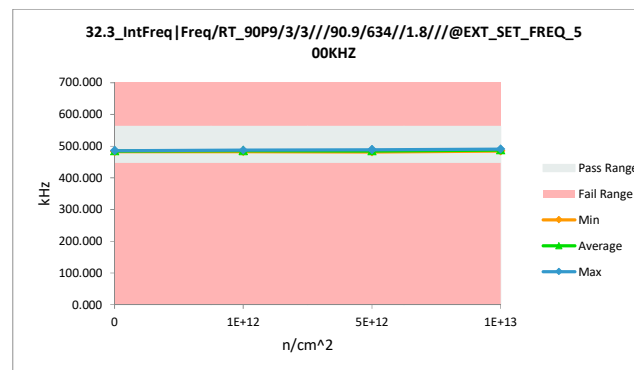


## NDD Report TPS7H4102-SP

| 32.3_IntFreq Freq/RT_90P9/3/3///90.9 |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | kHz      |                     | kHz                |        |
| Max Limit                            | 564      |                     | 562.5              |        |
| Min Limit                            | 446      |                     | 447.5              |        |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 485.657             | 483.152            | -2.505 |
| 0                                    | 2        | 485.401             | 485.759            | 0.358  |
| 0                                    | 3        | 485.457             | 485.538            | 0.081  |
| 1E+12                                | 30       | 484.864             | 487.320            | 2.456  |
| 1E+12                                | 31       | 486.933             | 485.125            | -1.809 |
| 1E+12                                | 32       | 486.810             | 487.025            | 0.215  |
| 1E+12                                | 33       | 482.068             | 482.272            | 0.203  |
| 5E+12                                | 34       | 483.005             | 483.020            | 0.015  |
| 5E+12                                | 35       | 481.048             | 481.485            | 0.437  |
| 5E+12                                | 36       | 488.473             | 488.784            | 0.312  |
| 5E+12                                | 37       | 488.388             | 486.992            | -1.396 |
| 1E+13                                | 38       | 488.016             | 487.468            | -0.548 |
| 1E+13                                | 39       | 484.532             | 490.563            | 6.031  |
| 1E+13                                | 40       | 484.523             | 489.543            | 5.020  |
| 1E+13                                | 41       | 484.584             | 485.044            | 0.460  |
|                                      | Max      | 488.473             | 490.563            | 6.031  |
|                                      | Average  | 485.317             | 485.939            | 0.622  |
|                                      | Min      | 481.048             | 481.485            | -2.505 |
|                                      | Std Dev  | 2.200               | 2.676              | 2.304  |

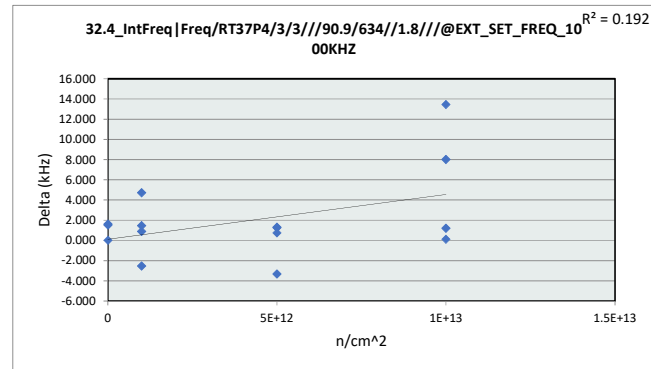


| 32.3_IntFreq Freq/RT_90P9/3/3///90.9 |         |         |         |         |
|--------------------------------------|---------|---------|---------|---------|
| Test Site                            |         |         |         |         |
| Tester                               |         |         |         |         |
| Test Number                          |         |         |         |         |
| Max Limit                            | 562.5   |         | kHz     |         |
| Min Limit                            | 447.5   |         | kHz     |         |
| n/cm^2                               | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                   | 447.500 | 447.500 | 447.500 | 447.500 |
| Min                                  | 483.152 | 482.272 | 481.485 | 485.044 |
| Average                              | 484.816 | 485.435 | 485.070 | 488.154 |
| Max                                  | 485.759 | 487.320 | 488.784 | 490.563 |
| UL                                   | 562.500 | 562.500 | 562.500 | 562.500 |

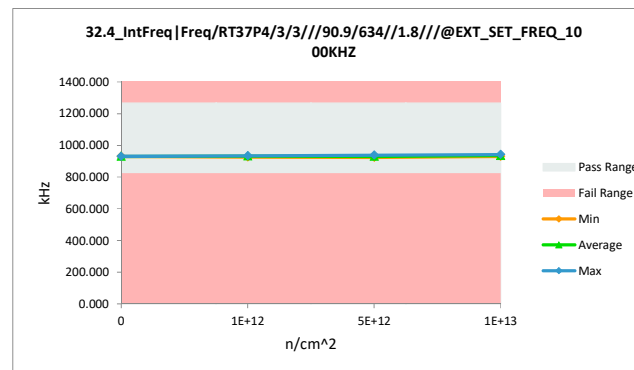


## NDD Report TPS7H4102-SP

| 32.4_IntFreq Freq/RT37P4/3/3///90.9/634//1.8///@EXT_SET_FREQ_1000KHZ |          |                     |                    |        |
|----------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                            |          |                     |                    |        |
| Tester                                                               |          |                     |                    |        |
| Test Number                                                          |          |                     |                    |        |
| Unit                                                                 | kHz      |                     | kHz                |        |
| Max Limit                                                            | 1280     |                     | 1267               |        |
| Min Limit                                                            | 812      |                     | 825                |        |
| n/cm^2                                                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                    | 1        | 929.757             | 929.763            | 0.006  |
| 0                                                                    | 2        | 928.902             | 930.485            | 1.583  |
| 0                                                                    | 3        | 928.648             | 930.157            | 1.509  |
| 1E+12                                                                | 30       | 929.904             | 934.595            | 4.692  |
| 1E+12                                                                | 31       | 933.373             | 930.821            | -2.551 |
| 1E+12                                                                | 32       | 933.274             | 934.159            | 0.885  |
| 1E+12                                                                | 33       | 924.067             | 925.520            | 1.453  |
| 5E+12                                                                | 34       | 926.656             | 927.388            | 0.732  |
| 5E+12                                                                | 35       | 922.050             | 923.311            | 1.261  |
| 5E+12                                                                | 36       | 936.496             | 937.800            | 1.304  |
| 5E+12                                                                | 37       | 936.451             | 933.116            | -3.335 |
| 1E+13                                                                | 38       | 935.274             | 935.373            | 0.099  |
| 1E+13                                                                | 39       | 928.885             | 942.319            | 13.434 |
| 1E+13                                                                | 40       | 928.715             | 936.701            | 7.987  |
| 1E+13                                                                | 41       | 928.872             | 930.050            | 1.178  |
|                                                                      | Max      | 936.496             | 942.319            | 13.434 |
|                                                                      | Average  | 930.088             | 932.104            | 2.016  |
|                                                                      | Min      | 922.050             | 923.311            | -3.335 |
|                                                                      | Std Dev  | 4.230               | 4.933              | 4.105  |

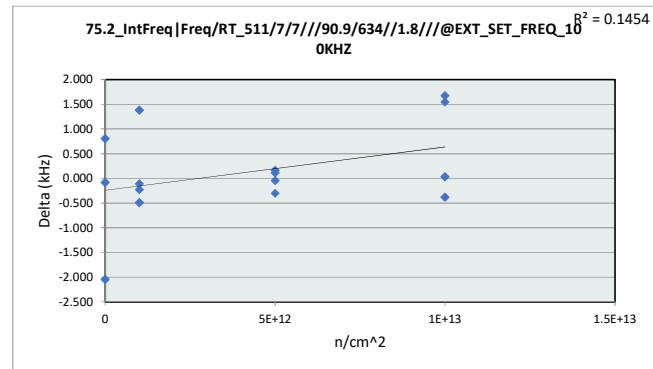


| 32.4_IntFreq Freq/RT37P4/3/3///90.9/634//1.8///@EXT_SET_FREQ_1000KHZ |          |          |          |          |
|----------------------------------------------------------------------|----------|----------|----------|----------|
| Test Site                                                            |          |          |          |          |
| Tester                                                               |          |          |          |          |
| Test Number                                                          |          |          |          |          |
| Max Limit                                                            | 1267     |          | kHz      |          |
| Min Limit                                                            | 825      |          | kHz      |          |
| n/cm^2                                                               | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                                                   | 825.000  | 825.000  | 825.000  | 825.000  |
| Min                                                                  | 929.763  | 925.520  | 923.311  | 930.050  |
| Average                                                              | 930.135  | 931.274  | 930.404  | 936.111  |
| Max                                                                  | 930.485  | 934.595  | 937.800  | 942.319  |
| UL                                                                   | 1267.000 | 1267.000 | 1267.000 | 1267.000 |

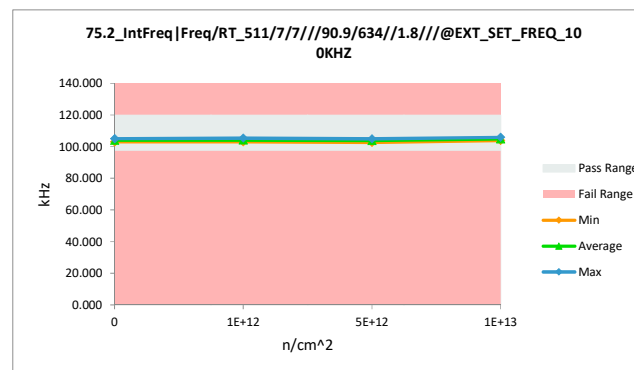


## NDD Report TPS7H4102-SP

| 75.2_IntFreq Freq/RT_511/7/7///90.9/634//1.8///@EXT_SET_FREQ_10 OKHZ |          |                     |                    |        |
|----------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                            |          |                     |                    |        |
| Tester                                                               |          |                     |                    |        |
| Test Number                                                          |          |                     |                    |        |
| Unit                                                                 | kHz      |                     | kHz                |        |
| Max Limit                                                            | 120      |                     | 119.7              |        |
| Min Limit                                                            | 97       |                     | 97.3               |        |
| n/cm^2                                                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                    | 1        | 104.999             | 102.951            | -2.048 |
| 0                                                                    | 2        | 104.155             | 104.955            | 0.800  |
| 0                                                                    | 3        | 104.141             | 104.053            | -0.088 |
| 1E+12                                                                | 30       | 103.955             | 105.335            | 1.379  |
| 1E+12                                                                | 31       | 104.322             | 103.822            | -0.499 |
| 1E+12                                                                | 32       | 104.330             | 104.098            | -0.232 |
| 1E+12                                                                | 33       | 103.070             | 102.955            | -0.115 |
| 5E+12                                                                | 34       | 102.870             | 102.565            | -0.305 |
| 5E+12                                                                | 35       | 102.809             | 102.763            | -0.046 |
| 5E+12                                                                | 36       | 104.644             | 104.749            | 0.105  |
| 5E+12                                                                | 37       | 104.717             | 104.880            | 0.162  |
| 1E+13                                                                | 38       | 104.218             | 103.834            | -0.384 |
| 1E+13                                                                | 39       | 104.118             | 105.658            | 1.541  |
| 1E+13                                                                | 40       | 104.151             | 105.823            | 1.672  |
| 1E+13                                                                | 41       | 104.097             | 104.127            | 0.030  |
|                                                                      | Max      | 104.999             | 105.823            | 1.672  |
|                                                                      | Average  | 104.040             | 104.171            | 0.131  |
|                                                                      | Min      | 102.809             | 102.565            | -2.048 |
|                                                                      | Std Dev  | 0.645               | 1.053              | 0.935  |

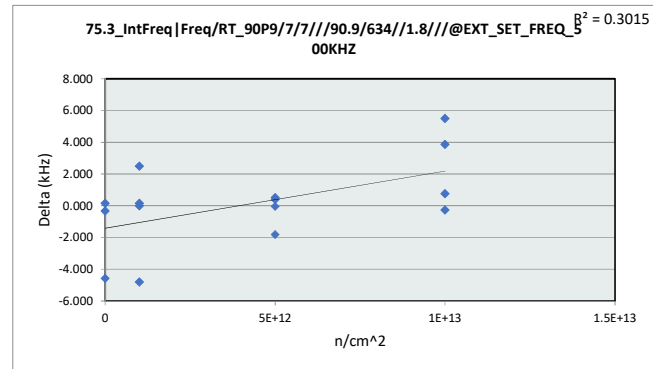


| 75.2_IntFreq Freq/RT_511/7/7///90.9/634//1.8///@EXT_SET_FREQ_10 OKHZ |         |         |         |         |
|----------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                            |         |         |         |         |
| Tester                                                               |         |         |         |         |
| Test Number                                                          |         |         |         |         |
| Max Limit                                                            | 119.7   |         | kHz     |         |
| Min Limit                                                            | 97.3    |         | kHz     |         |
| n/cm^2                                                               | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                                   | 97.300  | 97.300  | 97.300  | 97.300  |
| Min                                                                  | 102.951 | 102.955 | 102.565 | 103.834 |
| Average                                                              | 103.986 | 104.053 | 103.739 | 104.861 |
| Max                                                                  | 104.955 | 105.335 | 104.880 | 105.823 |
| UL                                                                   | 119.700 | 119.700 | 119.700 | 119.700 |

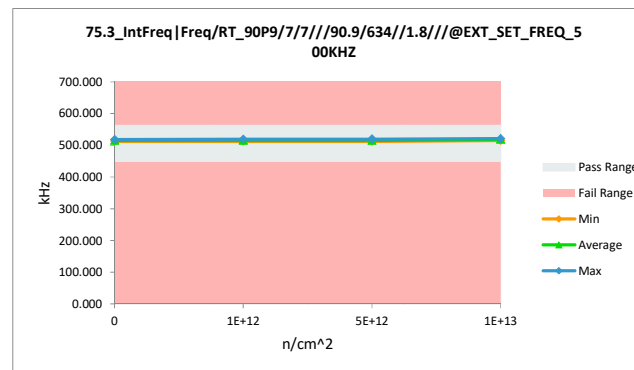


## NDD Report TPS7H4102-SP

| 75.3_IntFreq Freq/RT_90P9/7/7///90.9 |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | kHz      |                     | kHz                |        |
| Max Limit                            | 564      |                     | 562.5              |        |
| Min Limit                            | 446      |                     | 447.5              |        |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 517.246             | 512.663            | -4.583 |
| 0                                    | 2        | 517.624             | 517.290            | -0.333 |
| 0                                    | 3        | 517.533             | 517.668            | 0.135  |
| 1E+12                                | 30       | 514.124             | 516.599            | 2.474  |
| 1E+12                                | 31       | 519.014             | 514.196            | -4.818 |
| 1E+12                                | 32       | 519.046             | 519.034            | -0.012 |
| 1E+12                                | 33       | 512.687             | 512.825            | 0.138  |
| 5E+12                                | 34       | 512.960             | 513.463            | 0.503  |
| 5E+12                                | 35       | 512.560             | 512.951            | 0.391  |
| 5E+12                                | 36       | 519.888             | 519.840            | -0.048 |
| 5E+12                                | 37       | 519.901             | 518.084            | -1.817 |
| 1E+13                                | 38       | 521.433             | 521.164            | -0.268 |
| 1E+13                                | 39       | 514.821             | 518.678            | 3.856  |
| 1E+13                                | 40       | 514.680             | 520.167            | 5.487  |
| 1E+13                                | 41       | 514.668             | 515.418            | 0.750  |
|                                      | Max      | 521.433             | 521.164            | 5.487  |
|                                      | Average  | 516.546             | 516.669            | 0.124  |
|                                      | Min      | 512.560             | 512.663            | -4.818 |
|                                      | Std Dev  | 2.937               | 2.905              | 2.667  |

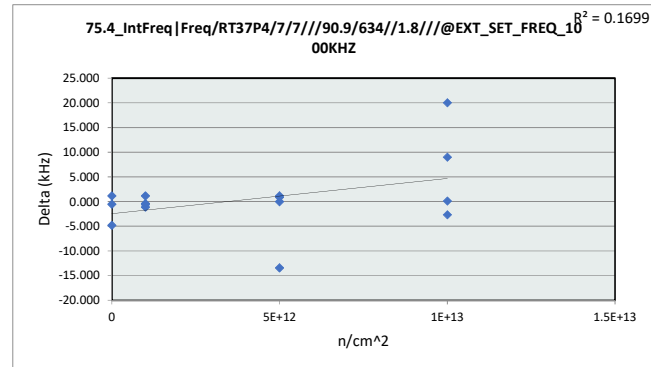


| 75.3_IntFreq Freq/RT_90P9/7/7///90.9/634//1.8///@EXT_SET_FREQ_500KHZ |         |         |         |         |
|----------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                            |         |         |         |         |
| Tester                                                               |         |         |         |         |
| Test Number                                                          |         |         |         |         |
| Max Limit                                                            | 562.5   |         | kHz     |         |
| Min Limit                                                            | 447.5   |         | kHz     |         |
| n/cm^2                                                               | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                                   | 447.500 | 447.500 | 447.500 | 447.500 |
| Min                                                                  | 512.663 | 512.825 | 512.951 | 515.418 |
| Average                                                              | 515.874 | 515.663 | 516.084 | 518.857 |
| Max                                                                  | 517.668 | 519.034 | 519.840 | 521.164 |
| UL                                                                   | 562.500 | 562.500 | 562.500 | 562.500 |

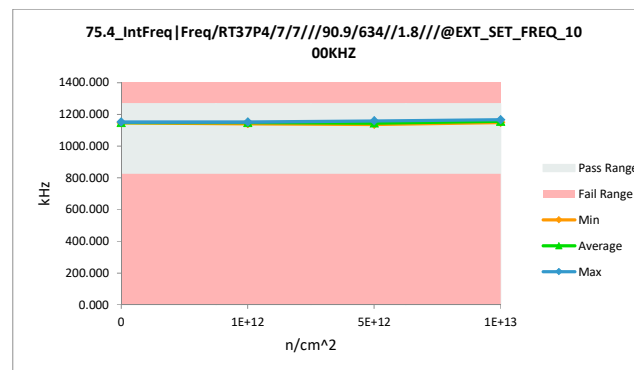


## NDD Report TPS7H4102-SP

| 75.4_IntFreq Freq/RT37P4/7/7///90.9/6 |          |                     |                    |         |
|---------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                             |          |                     |                    |         |
| Tester                                |          |                     |                    |         |
| Test Number                           |          |                     |                    |         |
| Unit                                  | kHz      |                     | kHz                |         |
| Max Limit                             | 1280     |                     | 1267               |         |
| Min Limit                             | 812      |                     | 825                |         |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                     | 1        | 1156.671            | 1151.799           | -4.872  |
| 0                                     | 2        | 1147.818            | 1147.205           | -0.614  |
| 0                                     | 3        | 1147.776            | 1148.834           | 1.058   |
| 1E+12                                 | 30       | 1150.056            | 1149.587           | -0.469  |
| 1E+12                                 | 31       | 1152.713            | 1151.532           | -1.181  |
| 1E+12                                 | 32       | 1152.808            | 1152.114           | -0.695  |
| 1E+12                                 | 33       | 1140.586            | 1141.645           | 1.058   |
| 5E+12                                 | 34       | 1140.568            | 1140.468           | -0.100  |
| 5E+12                                 | 35       | 1136.041            | 1136.876           | 0.834   |
| 5E+12                                 | 36       | 1158.693            | 1159.805           | 1.112   |
| 5E+12                                 | 37       | 1158.694            | 1145.212           | -13.482 |
| 1E+13                                 | 38       | 1153.332            | 1150.601           | -2.731  |
| 1E+13                                 | 39       | 1147.365            | 1167.316           | 19.951  |
| 1E+13                                 | 40       | 1148.699            | 1157.656           | 8.957   |
| 1E+13                                 | 41       | 1148.772            | 1148.807           | 0.034   |
|                                       | Max      | 1158.694            | 1167.316           | 19.951  |
|                                       | Average  | 1149.373            | 1149.964           | 0.591   |
|                                       | Min      | 1136.041            | 1136.876           | -13.482 |
|                                       | Std Dev  | 6.592               | 7.707              | 7.034   |

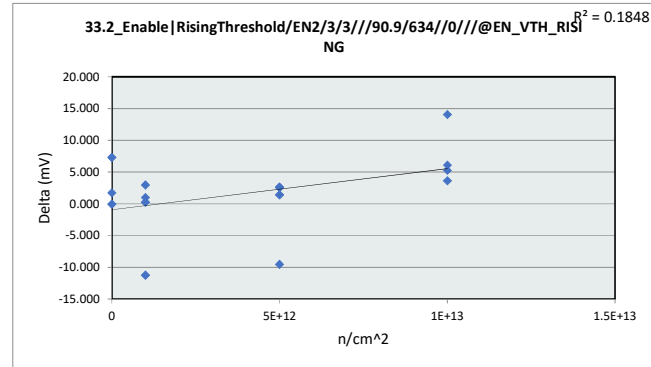


| 75.4_IntFreq Freq/RT37P4/7/7///90.9/634//1.8///@EXT_SET_FREQ_1000KHZ |          |          |          |          |
|----------------------------------------------------------------------|----------|----------|----------|----------|
| Test Site                                                            |          |          |          |          |
| Tester                                                               |          |          |          |          |
| Test Number                                                          |          |          |          |          |
| Max Limit                                                            | 1267     |          | kHz      |          |
| Min Limit                                                            | 825      |          | kHz      |          |
| n/cm^2                                                               | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                                                   | 825.000  | 825.000  | 825.000  | 825.000  |
| Min                                                                  | 1147.205 | 1141.645 | 1136.876 | 1148.807 |
| Average                                                              | 1149.279 | 1148.719 | 1145.590 | 1156.095 |
| Max                                                                  | 1151.799 | 1152.114 | 1159.805 | 1167.316 |
| UL                                                                   | 1267.000 | 1267.000 | 1267.000 | 1267.000 |

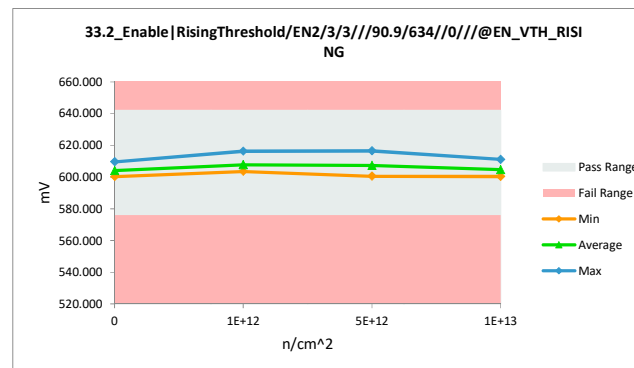


## NDD Report TPS7H4102-SP

| 33.2_Enable RisingThreshold/EN2/3/3// |          |                     |                    |         |
|---------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                             |          |                     |                    |         |
| Tester                                |          |                     |                    |         |
| Test Number                           |          |                     |                    |         |
| Unit                                  | mV       |                     | mV                 |         |
| Max Limit                             | 645      |                     | 642                |         |
| Min Limit                             | 573      |                     | 576                |         |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                     | 1        | 602.343             | 609.606            | 7.263   |
| 0                                     | 2        | 600.556             | 602.232            | 1.676   |
| 0                                     | 3        | 600.396             | 600.289            | -0.107  |
| 1E+12                                 | 30       | 603.838             | 606.730            | 2.892   |
| 1E+12                                 | 31       | 615.781             | 604.513            | -11.268 |
| 1E+12                                 | 32       | 615.283             | 616.217            | 0.935   |
| 1E+12                                 | 33       | 603.280             | 603.491            | 0.211   |
| 5E+12                                 | 34       | 597.848             | 600.442            | 2.593   |
| 5E+12                                 | 35       | 606.837             | 608.214            | 1.377   |
| 5E+12                                 | 36       | 613.969             | 616.513            | 2.544   |
| 5E+12                                 | 37       | 614.180             | 604.602            | -9.578  |
| 1E+13                                 | 38       | 598.585             | 604.603            | 6.018   |
| 1E+13                                 | 39       | 596.820             | 600.428            | 3.608   |
| 1E+13                                 | 40       | 597.144             | 611.172            | 14.029  |
| 1E+13                                 | 41       | 596.894             | 602.108            | 5.214   |
|                                       | Max      | 615.781             | 616.513            | 14.029  |
|                                       | Average  | 604.250             | 606.077            | 1.827   |
|                                       | Min      | 596.820             | 600.289            | -11.268 |
|                                       | Std Dev  | 7.174               | 5.321              | 6.105   |



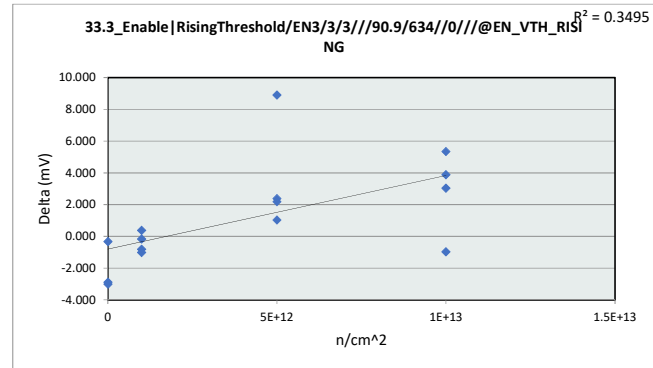
| 33.2_Enable RisingThreshold/ |         |         |         |         |
|------------------------------|---------|---------|---------|---------|
| Test Site                    |         |         |         |         |
| Tester                       |         |         |         |         |
| Test Number                  |         |         |         |         |
| Max Limit                    | 642     |         | mV      |         |
| Min Limit                    | 576     |         | mV      |         |
| n/cm^2                       | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                           | 576.000 | 576.000 | 576.000 | 576.000 |
| Min                          | 600.289 | 603.491 | 600.442 | 600.428 |
| Average                      | 604.042 | 607.738 | 607.443 | 604.578 |
| Max                          | 609.606 | 616.217 | 616.513 | 611.173 |
| UL                           | 642.000 | 642.000 | 642.000 | 642.000 |



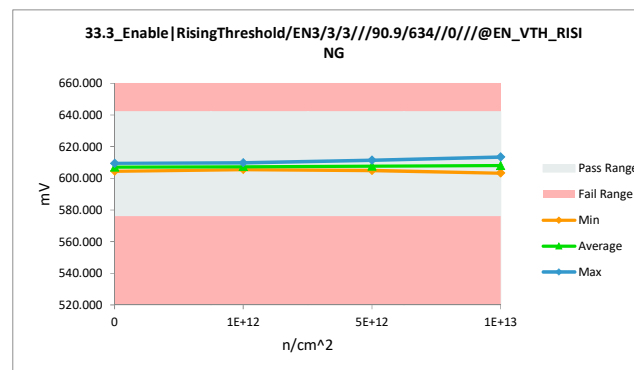


## NDD Report TPS7H4102-SP

| 33.3_Enable RisingThreshold/EN3/3/3// |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | mV       |                     | mV                 |        |
| Max Limit                             | 645      |                     | 642                |        |
| Min Limit                             | 573      |                     | 576                |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 607.440             | 604.412            | -3.028 |
| 0                                     | 2        | 610.056             | 607.142            | -2.914 |
| 0                                     | 3        | 609.745             | 609.397            | -0.348 |
| 1E+12                                 | 30       | 606.226             | 605.384            | -0.842 |
| 1E+12                                 | 31       | 607.432             | 606.398            | -1.034 |
| 1E+12                                 | 32       | 607.569             | 607.384            | -0.185 |
| 1E+12                                 | 33       | 609.441             | 609.802            | 0.360  |
| 5E+12                                 | 34       | 605.566             | 607.933            | 2.367  |
| 5E+12                                 | 35       | 605.258             | 606.277            | 1.018  |
| 5E+12                                 | 36       | 602.681             | 604.840            | 2.159  |
| 5E+12                                 | 37       | 602.567             | 611.451            | 8.884  |
| 1E+13                                 | 38       | 608.068             | 613.397            | 5.329  |
| 1E+13                                 | 39       | 604.181             | 603.195            | -0.985 |
| 1E+13                                 | 40       | 604.194             | 607.203            | 3.008  |
| 1E+13                                 | 41       | 604.235             | 608.092            | 3.857  |
|                                       | Max      | 610.056             | 613.397            | 8.884  |
|                                       | Average  | 606.311             | 607.487            | 1.176  |
|                                       | Min      | 602.567             | 603.195            | -3.028 |
|                                       | Std Dev  | 2.464               | 2.704              | 3.190  |

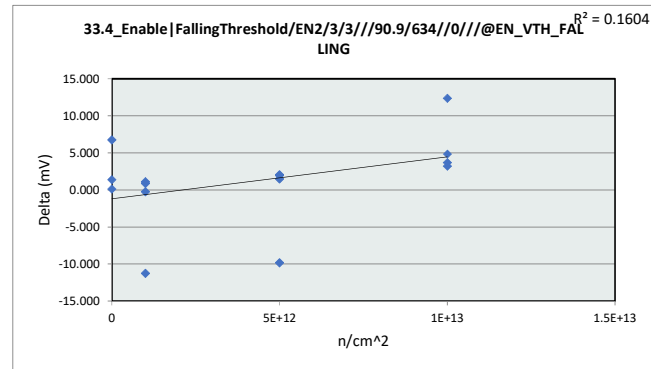


| 33.3_Enable RisingThreshold/ |         |         |         |         |
|------------------------------|---------|---------|---------|---------|
| Test Site                    |         |         |         |         |
| Tester                       |         |         |         |         |
| Test Number                  |         |         |         |         |
| Max Limit                    | 642     |         | mV      |         |
| Min Limit                    | 576     |         | mV      |         |
| n/cm^2                       | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                           | 576.000 | 576.000 | 576.000 | 576.000 |
| Min                          | 604.412 | 605.384 | 604.840 | 603.195 |
| Average                      | 606.984 | 607.242 | 607.625 | 607.972 |
| Max                          | 609.397 | 609.802 | 611.451 | 613.397 |
| UL                           | 642.000 | 642.000 | 642.000 | 642.000 |

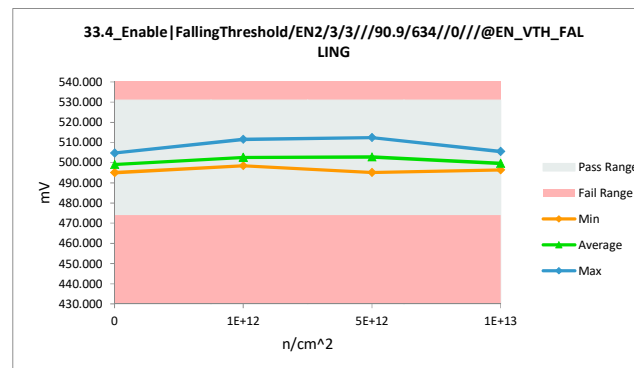


## NDD Report TPS7H4102-SP

| 33.4_Enable FallingThreshold/EN2/3/3// |          |                     |                    |         |
|----------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                              |          |                     |                    |         |
| Tester                                 |          |                     |                    |         |
| Test Number                            |          |                     |                    |         |
| Unit                                   | mV       |                     | mV                 |         |
| Max Limit                              | 532      |                     | 531                |         |
| Min Limit                              | 473      |                     | 474                |         |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                      | 1        | 497.991             | 504.744            | 6.753   |
| 0                                      | 2        | 495.972             | 497.322            | 1.350   |
| 0                                      | 3        | 494.946             | 495.045            | 0.099   |
| 1E+12                                  | 30       | 499.672             | 500.771            | 1.099   |
| 1E+12                                  | 31       | 510.712             | 499.433            | -11.279 |
| 1E+12                                  | 32       | 510.664             | 511.525            | 0.861   |
| 1E+12                                  | 33       | 498.699             | 498.451            | -0.248  |
| 5E+12                                  | 34       | 493.653             | 495.113            | 1.460   |
| 5E+12                                  | 35       | 501.354             | 503.269            | 1.915   |
| 5E+12                                  | 36       | 510.331             | 512.354            | 2.024   |
| 5E+12                                  | 37       | 510.284             | 500.438            | -9.846  |
| 1E+13                                  | 38       | 494.455             | 499.270            | 4.815   |
| 1E+13                                  | 39       | 493.190             | 496.367            | 3.177   |
| 1E+13                                  | 40       | 493.223             | 505.559            | 12.336  |
| 1E+13                                  | 41       | 493.461             | 497.131            | 3.670   |
|                                        | Max      | 510.712             | 512.354            | 12.336  |
|                                        | Average  | 499.907             | 501.119            | 1.212   |
|                                        | Min      | 493.190             | 495.045            | -11.279 |
|                                        | Std Dev  | 7.053               | 5.424              | 5.734   |

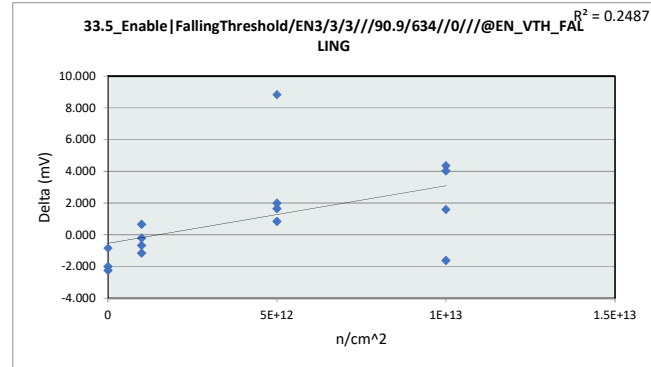


| 33.4_Enable FallingThreshold/ |         |         |         |         |
|-------------------------------|---------|---------|---------|---------|
| Test Site                     |         |         |         |         |
| Tester                        |         |         |         |         |
| Test Number                   |         |         |         |         |
| Max Limit                     | 531     |         | mV      |         |
| Min Limit                     | 474     |         | mV      |         |
| n/cm^2                        | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                            | 474.000 | 474.000 | 474.000 | 474.000 |
| Min                           | 495.045 | 498.451 | 495.113 | 496.367 |
| Average                       | 499.037 | 502.545 | 502.794 | 499.582 |
| Max                           | 504.744 | 511.525 | 512.354 | 505.559 |
| UL                            | 531.000 | 531.000 | 531.000 | 531.000 |

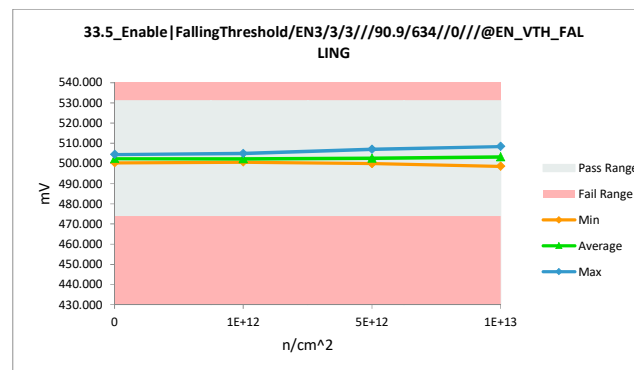


## NDD Report TPS7H4102-SP

| 33.5_Enable FallingThreshold/EN3/3/3// |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | mV       |                     | mV                 |        |
| Max Limit                              | 532      |                     | 531                |        |
| Min Limit                              | 473      |                     | 474                |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 502.339             | 500.333            | -2.006 |
| 0                                      | 2        | 504.719             | 502.474            | -2.246 |
| 0                                      | 3        | 505.241             | 504.393            | -0.848 |
| 1E+12                                  | 30       | 501.289             | 500.613            | -0.676 |
| 1E+12                                  | 31       | 502.338             | 501.172            | -1.165 |
| 1E+12                                  | 32       | 502.403             | 502.197            | -0.206 |
| 1E+12                                  | 33       | 504.285             | 504.937            | 0.652  |
| 5E+12                                  | 34       | 500.408             | 502.045            | 1.637  |
| 5E+12                                  | 35       | 500.603             | 501.447            | 0.844  |
| 5E+12                                  | 36       | 497.952             | 499.927            | 1.975  |
| 5E+12                                  | 37       | 498.140             | 506.973            | 8.833  |
| 1E+13                                  | 38       | 503.961             | 508.318            | 4.357  |
| 1E+13                                  | 39       | 500.125             | 498.495            | -1.630 |
| 1E+13                                  | 40       | 500.276             | 501.860            | 1.584  |
| 1E+13                                  | 41       | 500.165             | 504.194            | 4.029  |
|                                        | Max      | 505.241             | 508.318            | 8.833  |
|                                        | Average  | 501.616             | 502.625            | 1.009  |
|                                        | Min      | 497.952             | 498.495            | -2.246 |
|                                        | Std Dev  | 2.256               | 2.679              | 2.958  |

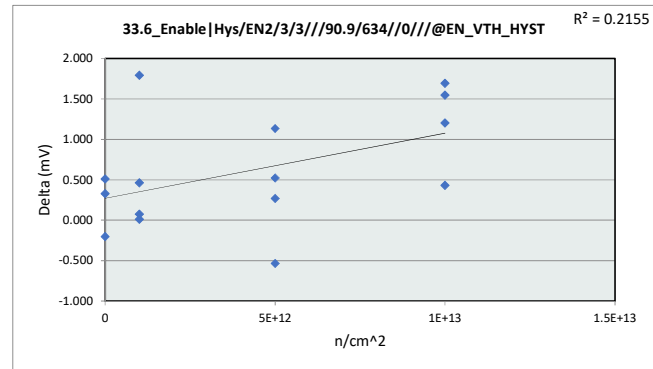


| 33.5_Enable FallingThreshold/ |         |         |         |         |
|-------------------------------|---------|---------|---------|---------|
| Test Site                     |         |         |         |         |
| Tester                        |         |         |         |         |
| Test Number                   |         |         |         |         |
| Max Limit                     | 531     |         | mV      |         |
| Min Limit                     | 474     |         | mV      |         |
| n/cm^2                        | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                            | 474.000 | 474.000 | 474.000 | 474.000 |
| Min                           | 500.333 | 500.613 | 499.927 | 498.495 |
| Average                       | 502.400 | 502.230 | 502.598 | 503.217 |
| Max                           | 504.393 | 504.937 | 506.973 | 508.318 |
| UL                            | 531.000 | 531.000 | 531.000 | 531.000 |

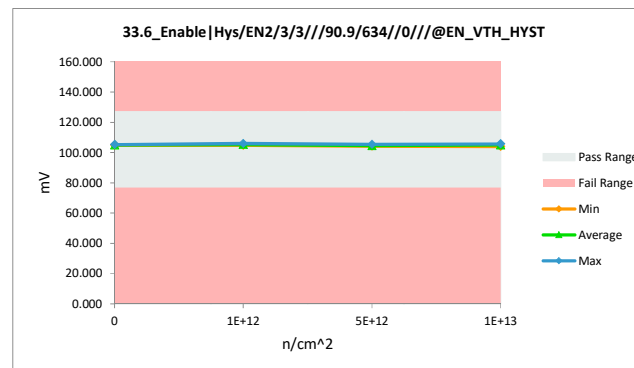


## NDD Report TPS7H4102-SP

| 33.6_Enable Hys/EN2/3/3///90.9/634// |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | mV       |                     | mV                 |        |
| Max Limit                            | 130      |                     | 127                |        |
| Min Limit                            | 74       |                     | 77                 |        |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 104.352             | 104.862            | 0.510  |
| 0                                    | 2        | 104.584             | 104.910            | 0.326  |
| 0                                    | 3        | 105.450             | 105.244            | -0.206 |
| 1E+12                                | 30       | 104.166             | 105.959            | 1.793  |
| 1E+12                                | 31       | 105.069             | 105.080            | 0.011  |
| 1E+12                                | 32       | 104.619             | 104.692            | 0.073  |
| 1E+12                                | 33       | 104.580             | 105.040            | 0.459  |
| 5E+12                                | 34       | 104.195             | 105.328            | 1.133  |
| 5E+12                                | 35       | 105.482             | 104.945            | -0.537 |
| 5E+12                                | 36       | 103.638             | 104.159            | 0.521  |
| 5E+12                                | 37       | 103.896             | 104.163            | 0.268  |
| 1E+13                                | 38       | 104.131             | 105.333            | 1.202  |
| 1E+13                                | 39       | 103.630             | 104.061            | 0.432  |
| 1E+13                                | 40       | 103.921             | 105.613            | 1.693  |
| 1E+13                                | 41       | 103.433             | 104.978            | 1.544  |
|                                      | Max      | 105.482             | 105.959            | 1.793  |
|                                      | Average  | 104.343             | 104.958            | 0.615  |
|                                      | Min      | 103.433             | 104.061            | -0.537 |
|                                      | Std Dev  | 0.630               | 0.533              | 0.705  |

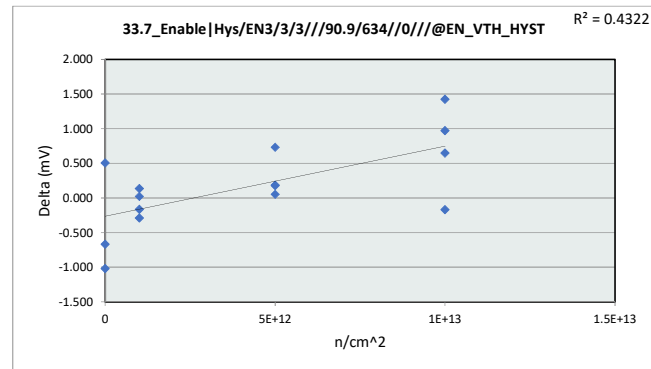


| 33.6_Enable Hys/EN2/3/3/// |         |         |         |         |
|----------------------------|---------|---------|---------|---------|
| Test Site                  |         |         |         |         |
| Tester                     |         |         |         |         |
| Test Number                |         |         |         |         |
| Max Limit                  | 127     |         | mV      |         |
| Min Limit                  | 77      |         | mV      |         |
| n/cm^2                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                         | 77.000  | 77.000  | 77.000  | 77.000  |
| Min                        | 104.862 | 104.692 | 104.159 | 104.061 |
| Average                    | 105.005 | 105.193 | 104.649 | 104.996 |
| Max                        | 105.244 | 105.959 | 105.329 | 105.613 |
| UL                         | 127.000 | 127.000 | 127.000 | 127.000 |

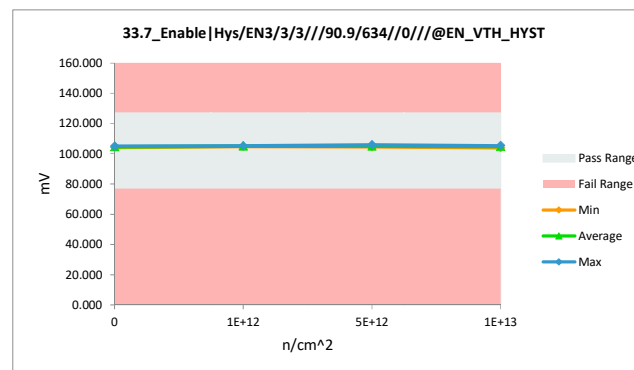


## NDD Report TPS7H4102-SP

| 33.7_Enable Hys/EN3/3/3///90.9/634// |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | mV       |                     | mV                 |        |
| Max Limit                            | 130      |                     | 127                |        |
| Min Limit                            | 74       |                     | 77                 |        |
| n/cm <sup>2</sup>                    | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 105.100             | 104.079            | -1.022 |
| 0                                    | 2        | 105.337             | 104.668            | -0.669 |
| 0                                    | 3        | 104.504             | 105.004            | 0.500  |
| 1E+12                                | 30       | 104.937             | 104.771            | -0.166 |
| 1E+12                                | 31       | 105.094             | 105.225            | 0.131  |
| 1E+12                                | 32       | 105.166             | 105.187            | 0.021  |
| 1E+12                                | 33       | 105.157             | 104.865            | -0.292 |
| 5E+12                                | 34       | 105.158             | 105.888            | 0.730  |
| 5E+12                                | 35       | 104.656             | 104.830            | 0.174  |
| 5E+12                                | 36       | 104.729             | 104.913            | 0.184  |
| 5E+12                                | 37       | 104.427             | 104.478            | 0.051  |
| 1E+13                                | 38       | 104.107             | 105.079            | 0.972  |
| 1E+13                                | 39       | 104.056             | 104.700            | 0.644  |
| 1E+13                                | 40       | 103.918             | 105.343            | 1.425  |
| 1E+13                                | 41       | 104.070             | 103.899            | -0.171 |
|                                      | Max      | 105.337             | 105.888            | 1.425  |
|                                      | Average  | 104.694             | 104.862            | 0.167  |
|                                      | Min      | 103.918             | 103.899            | -1.022 |
|                                      | Std Dev  | 0.486               | 0.489              | 0.625  |

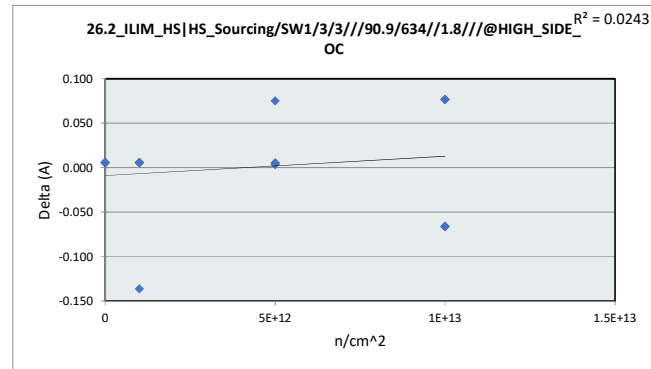


| 33.7_Enable Hys/EN3/3/3/// |         |         |         |         |
|----------------------------|---------|---------|---------|---------|
| Test Site                  |         |         |         |         |
| Tester                     |         |         |         |         |
| Test Number                |         |         |         |         |
| Max Limit                  | 127     |         | mV      |         |
| Min Limit                  | 77      |         | mV      |         |
| n/cm <sup>2</sup>          | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                         | 77.000  | 77.000  | 77.000  | 77.000  |
| Min                        | 104.079 | 104.771 | 104.478 | 103.899 |
| Average                    | 104.584 | 105.012 | 105.027 | 104.755 |
| Max                        | 105.004 | 105.225 | 105.888 | 105.343 |
| UL                         | 127.000 | 127.000 | 127.000 | 127.000 |

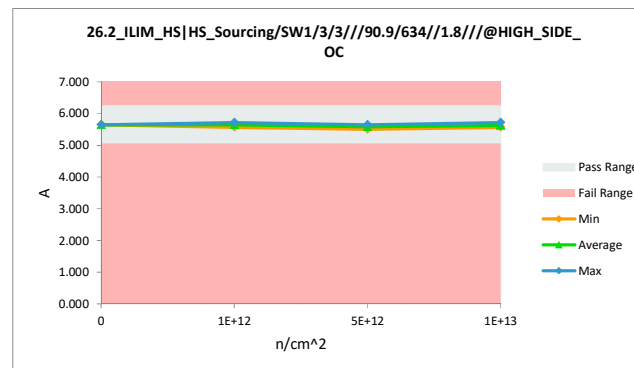


## NDD Report TPS7H4102-SP

| 26.2_ILIM_HS HS_Sourcing/SW1/3/3/// |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | A        |                     | A                  |        |
| Max Limit                           | 6.3      |                     | 6.24               |        |
| Min Limit                           | 5        |                     | 5.06               |        |
| n/cm <sup>2</sup>                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 5.641               | 5.646              | 0.005  |
| 0                                   | 2        | 5.640               | 5.646              | 0.006  |
| 0                                   | 3        | 5.640               | 5.646              | 0.006  |
| 1E+12                               | 30       | 5.569               | 5.575              | 0.005  |
| 1E+12                               | 31       | 5.711               | 5.575              | -0.136 |
| 1E+12                               | 32       | 5.711               | 5.717              | 0.006  |
| 1E+12                               | 33       | 5.712               | 5.717              | 0.005  |
| 5E+12                               | 34       | 5.641               | 5.646              | 0.005  |
| 5E+12                               | 35       | 5.641               | 5.646              | 0.005  |
| 5E+12                               | 36       | 5.501               | 5.504              | 0.003  |
| 5E+12                               | 37       | 5.500               | 5.575              | 0.075  |
| 1E+13                               | 38       | 5.570               | 5.646              | 0.076  |
| 1E+13                               | 39       | 5.641               | 5.575              | -0.066 |
| 1E+13                               | 40       | 5.641               | 5.575              | -0.066 |
| 1E+13                               | 41       | 5.641               | 5.717              | 0.077  |
|                                     | Max      | 5.712               | 5.717              | 0.077  |
|                                     | Average  | 5.627               | 5.627              | 0.000  |
|                                     | Min      | 5.500               | 5.504              | -0.136 |
|                                     | Std Dev  | 0.066               | 0.063              | 0.057  |

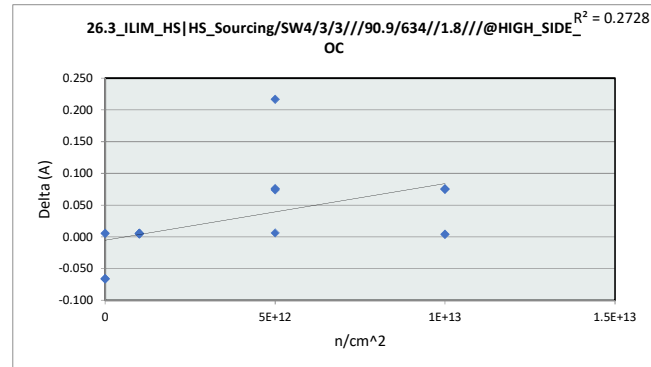


| 26.2_ILIM_HS HS_Sourcing/S |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 6.24  |       | A     |       |
| Min Limit                  | 5.06  |       | A     |       |
| n/cm <sup>2</sup>          | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 5.060 | 5.060 | 5.060 | 5.060 |
| Min                        | 5.646 | 5.575 | 5.504 | 5.575 |
| Average                    | 5.646 | 5.646 | 5.593 | 5.628 |
| Max                        | 5.646 | 5.717 | 5.646 | 5.717 |
| UL                         | 6.240 | 6.240 | 6.240 | 6.240 |

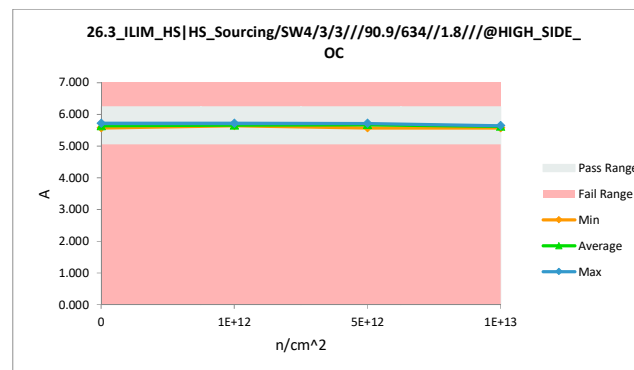


## NDD Report TPS7H4102-SP

| 26.3_ILIM_HS HS_Sourcing/SW4/3/3/// |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | A        |                     | A                  |        |
| Max Limit                           | 6.3      |                     | 6.24               |        |
| Min Limit                           | 5        |                     | 5.06               |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 5.638               | 5.571              | -0.067 |
| 0                                   | 2        | 5.709               | 5.642              | -0.067 |
| 0                                   | 3        | 5.709               | 5.714              | 0.005  |
| 1E+12                               | 30       | 5.638               | 5.642              | 0.004  |
| 1E+12                               | 31       | 5.638               | 5.643              | 0.005  |
| 1E+12                               | 32       | 5.638               | 5.643              | 0.005  |
| 1E+12                               | 33       | 5.709               | 5.714              | 0.005  |
| 5E+12                               | 34       | 5.709               | 5.714              | 0.006  |
| 5E+12                               | 35       | 5.638               | 5.714              | 0.076  |
| 5E+12                               | 36       | 5.497               | 5.571              | 0.074  |
| 5E+12                               | 37       | 5.498               | 5.714              | 0.216  |
| 1E+13                               | 38       | 5.568               | 5.642              | 0.075  |
| 1E+13                               | 39       | 5.568               | 5.643              | 0.075  |
| 1E+13                               | 40       | 5.568               | 5.571              | 0.004  |
| 1E+13                               | 41       | 5.568               | 5.643              | 0.075  |
|                                     | Max      | 5.709               | 5.714              | 0.216  |
|                                     | Average  | 5.619               | 5.652              | 0.033  |
|                                     | Min      | 5.497               | 5.571              | -0.067 |
|                                     | Std Dev  | 0.073               | 0.053              | 0.070  |

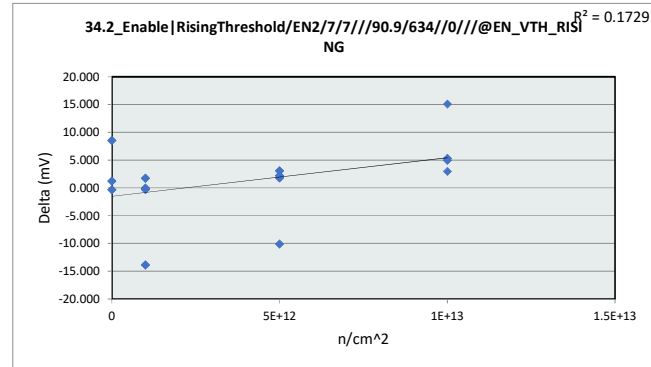


| 26.3_ILIM_HS HS_Sourcing/S |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 6.24  |       | A     |       |
| Min Limit                  | 5.06  |       | A     |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 5.060 | 5.060 | 5.060 | 5.060 |
| Min                        | 5.571 | 5.642 | 5.571 | 5.572 |
| Average                    | 5.643 | 5.660 | 5.678 | 5.625 |
| Max                        | 5.714 | 5.714 | 5.714 | 5.643 |
| UL                         | 6.240 | 6.240 | 6.240 | 6.240 |

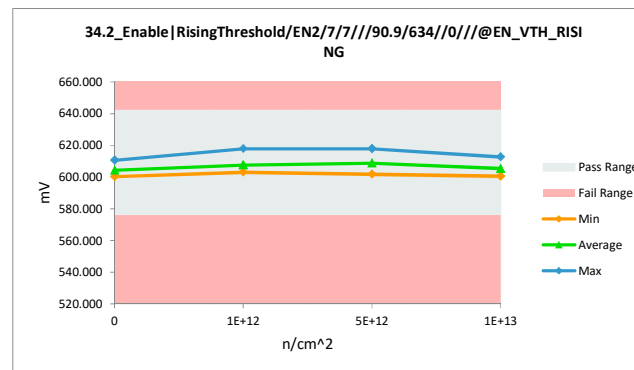


## NDD Report TPS7H4102-SP

| 34.2_Enable RisingThreshold/EN2/7/7/// |          |                     |                    |         |
|----------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                              |          |                     |                    |         |
| Tester                                 |          |                     |                    |         |
| Test Number                            |          |                     |                    |         |
| Unit                                   | mV       |                     | mV                 |         |
| Max Limit                              | 645      |                     | 642                |         |
| Min Limit                              | 573      |                     | 576                |         |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                      | 1        | 601.979             | 610.494            | 8.515   |
| 0                                      | 2        | 600.733             | 601.927            | 1.194   |
| 0                                      | 3        | 600.698             | 600.301            | -0.398  |
| 1E+12                                  | 30       | 603.843             | 605.538            | 1.695   |
| 1E+12                                  | 31       | 617.747             | 603.841            | -13.906 |
| 1E+12                                  | 32       | 617.927             | 617.862            | -0.065  |
| 1E+12                                  | 33       | 603.275             | 602.970            | -0.305  |
| 5E+12                                  | 34       | 598.769             | 601.818            | 3.049   |
| 5E+12                                  | 35       | 607.891             | 609.639            | 1.748   |
| 5E+12                                  | 36       | 615.636             | 617.805            | 2.168   |
| 5E+12                                  | 37       | 615.775             | 605.643            | -10.132 |
| 1E+13                                  | 38       | 600.706             | 605.962            | 5.255   |
| 1E+13                                  | 39       | 597.612             | 600.541            | 2.929   |
| 1E+13                                  | 40       | 597.683             | 612.720            | 15.038  |
| 1E+13                                  | 41       | 597.672             | 602.619            | 4.947   |
|                                        | Max      | 617.927             | 617.862            | 15.038  |
|                                        | Average  | 605.196             | 606.645            | 1.449   |
|                                        | Min      | 597.612             | 600.301            | -13.906 |
|                                        | Std Dev  | 7.727               | 5.821              | 6.790   |



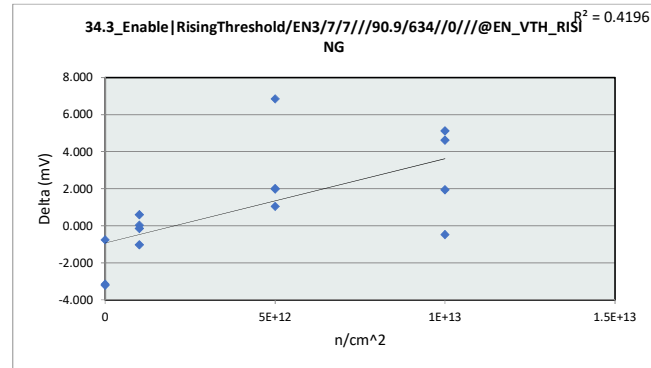
| 34.2_Enable RisingThreshold/ |         |         |         |         |
|------------------------------|---------|---------|---------|---------|
| Test Site                    |         |         |         |         |
| Tester                       |         |         |         |         |
| Test Number                  |         |         |         |         |
| Max Limit                    | 642     |         | mV      |         |
| Min Limit                    | 576     |         | mV      |         |
| n/cm^2                       | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                           | 576.000 | 576.000 | 576.000 | 576.000 |
| Min                          | 600.301 | 602.970 | 601.818 | 600.541 |
| Average                      | 604.241 | 607.553 | 608.726 | 605.461 |
| Max                          | 610.494 | 617.862 | 617.805 | 612.720 |
| UL                           | 642.000 | 642.000 | 642.000 | 642.000 |



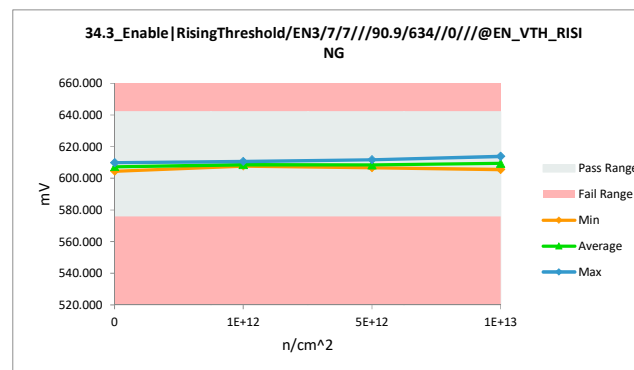


## NDD Report TPS7H4102-SP

| 34.3_Enable RisingThreshold/EN3/7/7/// |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | mV       |                     | mV                 |        |
| Max Limit                              | 645      |                     | 642                |        |
| Min Limit                              | 573      |                     | 576                |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 607.684             | 604.463            | -3.221 |
| 0                                      | 2        | 610.658             | 607.492            | -3.166 |
| 0                                      | 3        | 610.612             | 609.839            | -0.773 |
| 1E+12                                  | 30       | 607.686             | 607.706            | 0.020  |
| 1E+12                                  | 31       | 608.712             | 607.668            | -1.044 |
| 1E+12                                  | 32       | 608.676             | 608.510            | -0.165 |
| 1E+12                                  | 33       | 609.892             | 610.482            | 0.590  |
| 5E+12                                  | 34       | 606.602             | 608.563            | 1.961  |
| 5E+12                                  | 35       | 605.670             | 606.699            | 1.029  |
| 5E+12                                  | 36       | 604.827             | 606.827            | 2.001  |
| 5E+12                                  | 37       | 604.894             | 611.723            | 6.828  |
| 1E+13                                  | 38       | 608.687             | 613.794            | 5.107  |
| 1E+13                                  | 39       | 605.990             | 605.493            | -0.497 |
| 1E+13                                  | 40       | 605.968             | 607.891            | 1.923  |
| 1E+13                                  | 41       | 605.935             | 610.541            | 4.606  |
|                                        | Max      | 610.658             | 613.794            | 6.828  |
|                                        | Average  | 607.500             | 608.513            | 1.013  |
|                                        | Min      | 604.827             | 604.463            | -3.221 |
|                                        | Std Dev  | 1.980               | 2.426              | 2.852  |

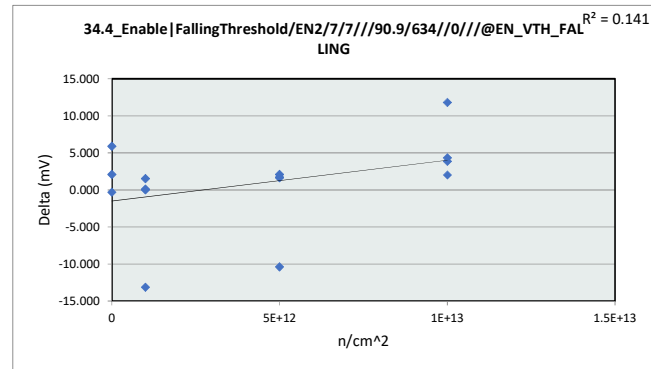


| 34.3_Enable RisingThreshold/ |         |         |         |         |
|------------------------------|---------|---------|---------|---------|
| Test Site                    |         |         |         |         |
| Tester                       |         |         |         |         |
| Test Number                  |         |         |         |         |
| Max Limit                    | 642     |         | mV      |         |
| Min Limit                    | 576     |         | mV      |         |
| n/cm^2                       | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                           | 576.000 | 576.000 | 576.000 | 576.000 |
| Min                          | 604.463 | 607.668 | 606.699 | 605.493 |
| Average                      | 607.265 | 608.592 | 608.453 | 609.430 |
| Max                          | 609.839 | 610.483 | 611.723 | 613.795 |
| UL                           | 642.000 | 642.000 | 642.000 | 642.000 |

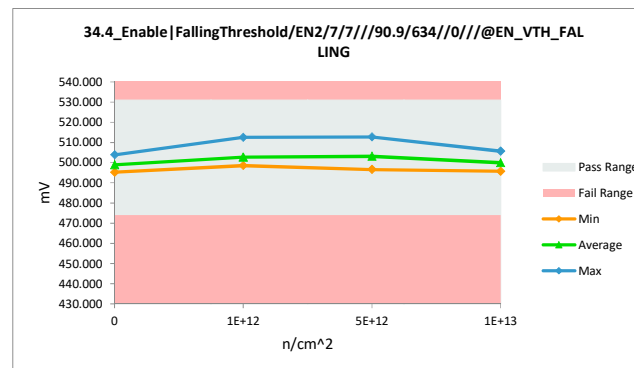


## NDD Report TPS7H4102-SP

| 34.4_Enable FallingThreshold/EN2/7/7// |          |                     |                    |         |
|----------------------------------------|----------|---------------------|--------------------|---------|
| Test Site                              |          |                     |                    |         |
| Tester                                 |          |                     |                    |         |
| Test Number                            |          |                     |                    |         |
| Unit                                   | mV       |                     | mV                 |         |
| Max Limit                              | 532      |                     | 531                |         |
| Min Limit                              | 473      |                     | 474                |         |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta   |
| 0                                      | 1        | 498.011             | 503.875            | 5.864   |
| 0                                      | 2        | 495.641             | 497.688            | 2.047   |
| 0                                      | 3        | 495.598             | 495.255            | -0.343  |
| 1E+12                                  | 30       | 498.812             | 500.315            | 1.503   |
| 1E+12                                  | 31       | 512.419             | 499.241            | -13.177 |
| 1E+12                                  | 32       | 512.437             | 512.515            | 0.078   |
| 1E+12                                  | 33       | 498.562             | 498.544            | -0.018  |
| 5E+12                                  | 34       | 494.592             | 496.646            | 2.054   |
| 5E+12                                  | 35       | 501.036             | 502.657            | 1.621   |
| 5E+12                                  | 36       | 510.999             | 512.671            | 1.673   |
| 5E+12                                  | 37       | 511.001             | 500.585            | -10.417 |
| 1E+13                                  | 38       | 496.572             | 500.844            | 4.272   |
| 1E+13                                  | 39       | 493.774             | 495.755            | 1.981   |
| 1E+13                                  | 40       | 493.848             | 505.642            | 11.794  |
| 1E+13                                  | 41       | 493.802             | 497.625            | 3.824   |
|                                        | Max      | 512.437             | 512.671            | 11.794  |
|                                        | Average  | 500.474             | 501.324            | 0.850   |
|                                        | Min      | 493.774             | 495.255            | -13.177 |
|                                        | Std Dev  | 7.321               | 5.421              | 5.963   |

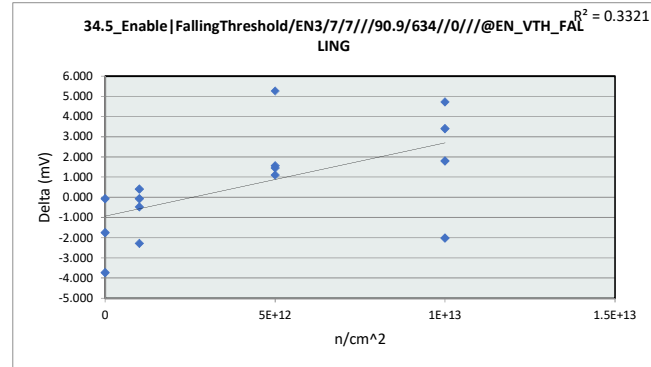


| 34.4_Enable FallingThreshold/ |         |         |         |         |
|-------------------------------|---------|---------|---------|---------|
| Test Site                     |         |         |         |         |
| Tester                        |         |         |         |         |
| Test Number                   |         |         |         |         |
| Max Limit                     | 531     |         | mV      |         |
| Min Limit                     | 474     |         | mV      |         |
| n/cm^2                        | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                            | 474.000 | 474.000 | 474.000 | 474.000 |
| Min                           | 495.255 | 498.544 | 496.646 | 495.755 |
| Average                       | 498.939 | 502.654 | 503.140 | 499.967 |
| Max                           | 503.875 | 512.515 | 512.671 | 505.643 |
| UL                            | 531.000 | 531.000 | 531.000 | 531.000 |

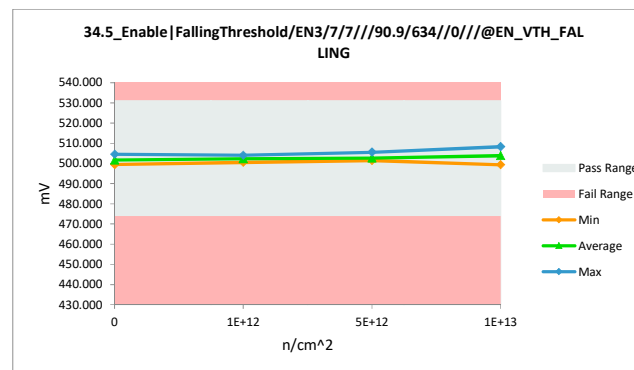


## NDD Report TPS7H4102-SP

| 34.5_Enable FallingThreshold/EN3/7/7// |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | mV       |                     | mV                 |        |
| Max Limit                              | 532      |                     | 531                |        |
| Min Limit                              | 473      |                     | 474                |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 501.231             | 499.480            | -1.751 |
| 0                                      | 2        | 504.706             | 500.974            | -3.731 |
| 0                                      | 3        | 504.647             | 504.571            | -0.076 |
| 1E+12                                  | 30       | 500.950             | 500.475            | -0.474 |
| 1E+12                                  | 31       | 503.557             | 501.275            | -2.283 |
| 1E+12                                  | 32       | 503.549             | 503.476            | -0.073 |
| 1E+12                                  | 33       | 503.621             | 504.029            | 0.407  |
| 5E+12                                  | 34       | 500.593             | 502.148            | 1.554  |
| 5E+12                                  | 35       | 500.356             | 501.452            | 1.096  |
| 5E+12                                  | 36       | 500.238             | 501.685            | 1.447  |
| 5E+12                                  | 37       | 500.301             | 505.559            | 5.259  |
| 1E+13                                  | 38       | 503.543             | 508.258            | 4.715  |
| 1E+13                                  | 39       | 501.326             | 499.307            | -2.018 |
| 1E+13                                  | 40       | 501.270             | 503.063            | 1.793  |
| 1E+13                                  | 41       | 501.353             | 504.743            | 3.390  |
|                                        | Max      | 504.706             | 508.258            | 5.259  |
|                                        | Average  | 502.083             | 502.700            | 0.617  |
|                                        | Min      | 500.238             | 499.307            | -3.731 |
|                                        | Std Dev  | 1.644               | 2.449              | 2.553  |

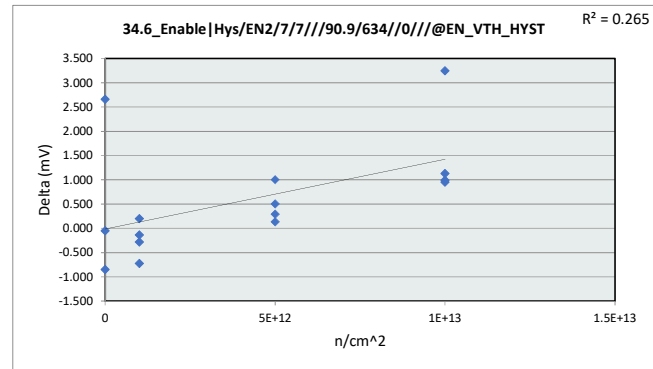


| 34.5_Enable FallingThreshold/ |         |         |         |         |
|-------------------------------|---------|---------|---------|---------|
| Test Site                     |         |         |         |         |
| Tester                        |         |         |         |         |
| Test Number                   |         |         |         |         |
| Max Limit                     | 531     |         | mV      |         |
| Min Limit                     | 474     |         | mV      |         |
| n/cm^2                        | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                            | 474.000 | 474.000 | 474.000 | 474.000 |
| Min                           | 499.480 | 500.476 | 501.452 | 499.308 |
| Average                       | 501.675 | 502.314 | 502.711 | 503.843 |
| Max                           | 504.571 | 504.029 | 505.559 | 508.258 |
| UL                            | 531.000 | 531.000 | 531.000 | 531.000 |

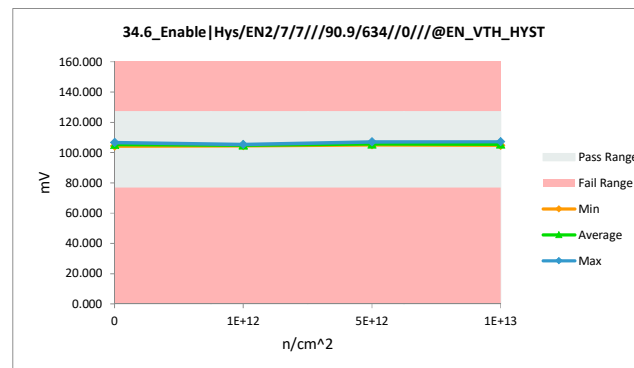


## NDD Report TPS7H4102-SP

| 34.6_Enable Hys/EN2/7/7///90.9/634/ |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | mV       |                     | mV                 |        |
| Max Limit                           | 130      |                     | 127                |        |
| Min Limit                           | 74       |                     | 77                 |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 103.968             | 106.619            | 2.651  |
| 0                                   | 2        | 105.092             | 104.239            | -0.853 |
| 0                                   | 3        | 105.101             | 105.046            | -0.055 |
| 1E+12                               | 30       | 105.031             | 105.223            | 0.192  |
| 1E+12                               | 31       | 105.328             | 104.600            | -0.729 |
| 1E+12                               | 32       | 105.490             | 105.347            | -0.143 |
| 1E+12                               | 33       | 104.713             | 104.426            | -0.287 |
| 5E+12                               | 34       | 104.177             | 105.172            | 0.995  |
| 5E+12                               | 35       | 106.855             | 106.982            | 0.127  |
| 5E+12                               | 36       | 104.638             | 105.134            | 0.496  |
| 5E+12                               | 37       | 104.774             | 105.059            | 0.285  |
| 1E+13                               | 38       | 104.134             | 105.118            | 0.984  |
| 1E+13                               | 39       | 103.839             | 104.786            | 0.947  |
| 1E+13                               | 40       | 103.835             | 107.078            | 3.243  |
| 1E+13                               | 41       | 103.871             | 104.994            | 1.123  |
|                                     | Max      | 106.855             | 107.078            | 3.243  |
|                                     | Average  | 104.723             | 105.321            | 0.598  |
|                                     | Min      | 103.835             | 104.239            | -0.853 |
|                                     | Std Dev  | 0.819               | 0.873              | 1.135  |

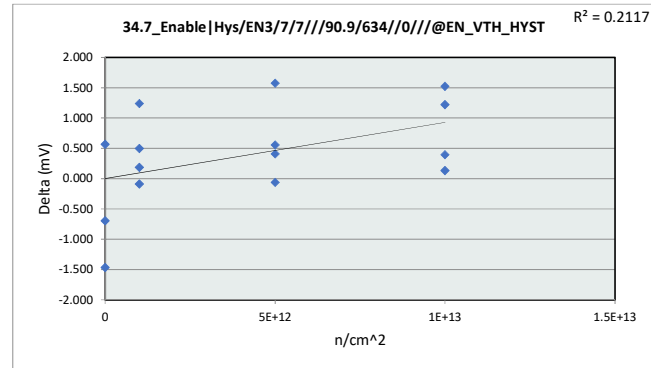


| 34.6_Enable Hys/EN2/7/7///90.9/634/ |         |         |         |         |
|-------------------------------------|---------|---------|---------|---------|
| Test Site                           |         |         |         |         |
| Tester                              |         |         |         |         |
| Test Number                         |         |         |         |         |
| Max Limit                           | 127     |         | mV      |         |
| Min Limit                           | 77      |         | mV      |         |
| n/cm^2                              | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                  | 77.000  | 77.000  | 77.000  | 77.000  |
| Min                                 | 104.239 | 104.426 | 105.059 | 104.786 |
| Average                             | 105.301 | 104.899 | 105.587 | 105.494 |
| Max                                 | 106.619 | 105.347 | 106.982 | 107.078 |
| UL                                  | 127.000 | 127.000 | 127.000 | 127.000 |

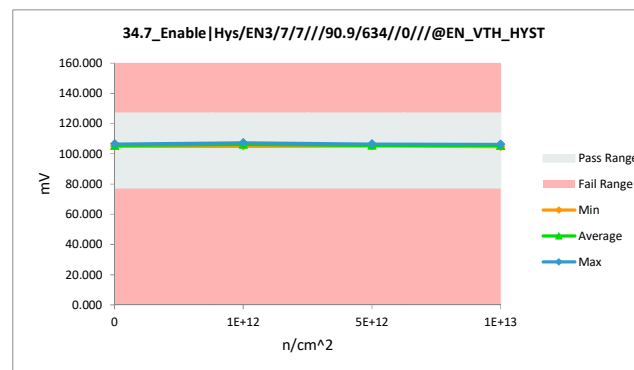


## NDD Report TPS7H4102-SP

| 34.7_Enable Hys/EN3/7/7///90.9/634// |          |                     |                    |        |
|--------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                            |          |                     |                    |        |
| Tester                               |          |                     |                    |        |
| Test Number                          |          |                     |                    |        |
| Unit                                 | mV       |                     | mV                 |        |
| Max Limit                            | 130      |                     | 127                |        |
| Min Limit                            | 74       |                     | 77                 |        |
| n/cm^2                               | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                    | 1        | 106.453             | 104.983            | -1.470 |
| 0                                    | 2        | 105.952             | 106.518            | 0.566  |
| 0                                    | 3        | 105.965             | 105.268            | -0.697 |
| 1E+12                                | 30       | 106.736             | 107.231            | 0.494  |
| 1E+12                                | 31       | 105.155             | 106.393            | 1.238  |
| 1E+12                                | 32       | 105.127             | 105.034            | -0.092 |
| 1E+12                                | 33       | 106.271             | 106.454            | 0.183  |
| 5E+12                                | 34       | 106.009             | 106.415            | 0.406  |
| 5E+12                                | 35       | 105.315             | 105.248            | -0.067 |
| 5E+12                                | 36       | 104.589             | 105.143            | 0.554  |
| 5E+12                                | 37       | 104.594             | 106.163            | 1.570  |
| 1E+13                                | 38       | 105.145             | 105.537            | 0.392  |
| 1E+13                                | 39       | 104.664             | 106.185            | 1.521  |
| 1E+13                                | 40       | 104.698             | 104.827            | 0.130  |
| 1E+13                                | 41       | 104.583             | 105.798            | 1.216  |
|                                      | Max      | 106.736             | 107.231            | 1.570  |
|                                      | Average  | 105.417             | 105.813            | 0.396  |
|                                      | Min      | 104.583             | 104.827            | -1.470 |
|                                      | Std Dev  | 0.749               | 0.721              | 0.817  |

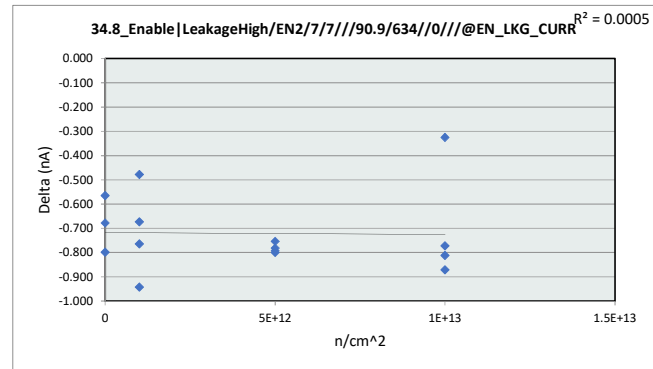


| 34.7_Enable Hys/EN3/7/7/// |         |         |         |         |
|----------------------------|---------|---------|---------|---------|
| Test Site                  |         |         |         |         |
| Tester                     |         |         |         |         |
| Test Number                |         |         |         |         |
| Max Limit                  | 127     |         | mV      |         |
| Min Limit                  | 77      |         | mV      |         |
| n/cm^2                     | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                         | 77.000  | 77.000  | 77.000  | 77.000  |
| Min                        | 104.983 | 105.034 | 105.143 | 104.827 |
| Average                    | 105.590 | 106.278 | 105.742 | 105.587 |
| Max                        | 106.518 | 107.231 | 106.416 | 106.185 |
| UL                         | 127.000 | 127.000 | 127.000 | 127.000 |

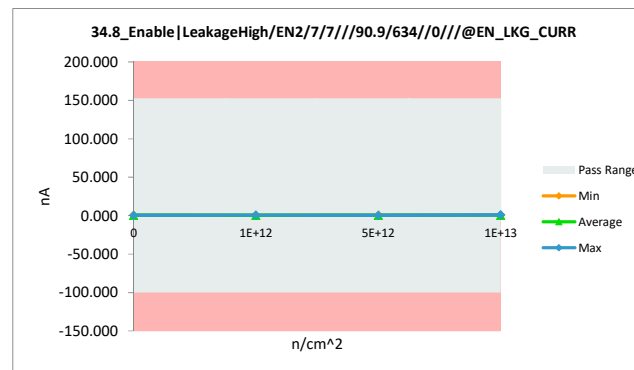


## NDD Report TPS7H4102-SP

| 34.8_Enable LeakageHigh/EN2/7/7///90.9/634//0///@EN_LKG_CURR |          |                     |                    |        |
|--------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                    |          |                     |                    |        |
| Tester                                                       |          |                     |                    |        |
| Test Number                                                  |          |                     |                    |        |
| Unit                                                         | nA       |                     | nA                 |        |
| Max Limit                                                    | 154      |                     | 152                |        |
| Min Limit                                                    | -150.4   |                     | -100               |        |
| n/cm^2                                                       | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                            | 1        | 1.279               | 0.480              | -0.798 |
| 0                                                            | 2        | 1.151               | 0.585              | -0.566 |
| 0                                                            | 3        | 1.197               | 0.519              | -0.678 |
| 1E+12                                                        | 30       | 1.462               | 0.519              | -0.943 |
| 1E+12                                                        | 31       | 1.240               | 0.761              | -0.479 |
| 1E+12                                                        | 32       | 1.219               | 0.454              | -0.765 |
| 1E+12                                                        | 33       | 1.252               | 0.579              | -0.673 |
| 5E+12                                                        | 34       | 1.343               | 0.543              | -0.800 |
| 5E+12                                                        | 35       | 1.268               | 0.486              | -0.782 |
| 5E+12                                                        | 36       | 1.279               | 0.525              | -0.755 |
| 5E+12                                                        | 37       | 1.268               | 0.475              | -0.793 |
| 1E+13                                                        | 38       | 1.351               | 0.539              | -0.812 |
| 1E+13                                                        | 39       | 1.345               | 1.019              | -0.326 |
| 1E+13                                                        | 40       | 1.344               | 0.473              | -0.871 |
| 1E+13                                                        | 41       | 1.328               | 0.555              | -0.773 |
|                                                              | Max      | 1.462               | 1.019              | -0.326 |
|                                                              | Average  | 1.288               | 0.567              | -0.721 |
|                                                              | Min      | 1.151               | 0.454              | -0.943 |
|                                                              | Std Dev  | 0.076               | 0.145              | 0.158  |

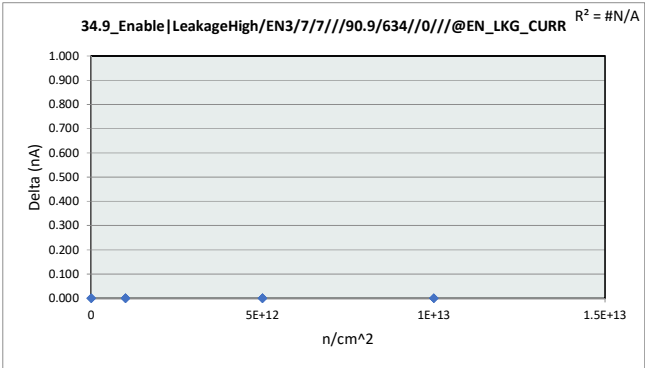


| 34.8_Enable LeakageHigh/EN2/7/7///90.9/634//0///@EN_LKG_CURR |          |          |          |          |
|--------------------------------------------------------------|----------|----------|----------|----------|
| Test Site                                                    |          |          |          |          |
| Tester                                                       |          |          |          |          |
| Test Number                                                  |          |          |          |          |
| Max Limit                                                    | 152      |          | nA       |          |
| Min Limit                                                    | -100     |          | nA       |          |
| n/cm^2                                                       | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                                           | -100.000 | -100.000 | -100.000 | -100.000 |
| Min                                                          | 0.480    | 0.454    | 0.475    | 0.473    |
| Average                                                      | 0.528    | 0.578    | 0.507    | 0.647    |
| Max                                                          | 0.585    | 0.761    | 0.543    | 1.019    |
| UL                                                           | 152.000  | 152.000  | 152.000  | 152.000  |

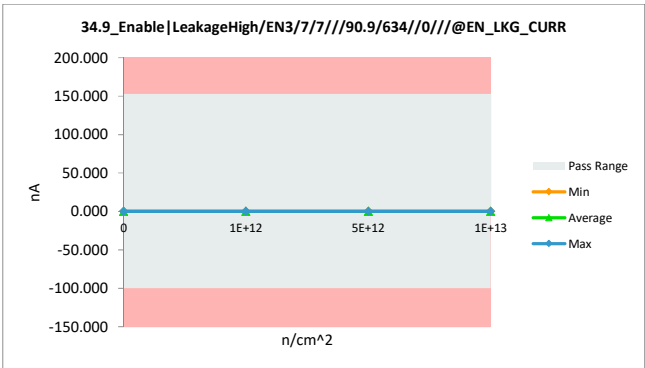


NDD Report  
TPS7H4102-SP

| 34.9_Enable LeakageHigh/EN3/7/7///90.9/634//0///@EN_LKG_CURR |          |                     |                    |       |
|--------------------------------------------------------------|----------|---------------------|--------------------|-------|
| Test Site                                                    |          |                     |                    |       |
| Tester                                                       |          |                     |                    |       |
| Test Number                                                  |          |                     |                    |       |
| Unit                                                         | nA       |                     | nA                 |       |
| Max Limit                                                    | 154      |                     | 152                |       |
| Min Limit                                                    | -150.4   |                     | -100               |       |
| n/cm^2                                                       | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta |
| 0                                                            | 1        | 0.000               | 0.000              | 0.000 |
| 0                                                            | 2        | 0.000               | 0.000              | 0.000 |
| 0                                                            | 3        | 0.000               | 0.000              | 0.000 |
| 1E+12                                                        | 30       | 0.000               | 0.000              | 0.000 |
| 1E+12                                                        | 31       | 0.000               | 0.000              | 0.000 |
| 1E+12                                                        | 32       | 0.000               | 0.000              | 0.000 |
| 1E+12                                                        | 33       | 0.000               | 0.000              | 0.000 |
| 5E+12                                                        | 34       | 0.000               | 0.000              | 0.000 |
| 5E+12                                                        | 35       | 0.000               | 0.000              | 0.000 |
| 5E+12                                                        | 36       | 0.000               | 0.000              | 0.000 |
| 5E+12                                                        | 37       | 0.000               | 0.000              | 0.000 |
| 1E+13                                                        | 38       | 0.000               | 0.000              | 0.000 |
| 1E+13                                                        | 39       | 0.000               | 0.000              | 0.000 |
| 1E+13                                                        | 40       | 0.000               | 0.000              | 0.000 |
| 1E+13                                                        | 41       | 0.000               | 0.000              | 0.000 |
|                                                              | Max      | 0.000               | 0.000              | 0.000 |
|                                                              | Average  | 0.000               | 0.000              | 0.000 |
|                                                              | Min      | 0.000               | 0.000              | 0.000 |
|                                                              | Std Dev  | 0.000               | 0.000              | 0.000 |

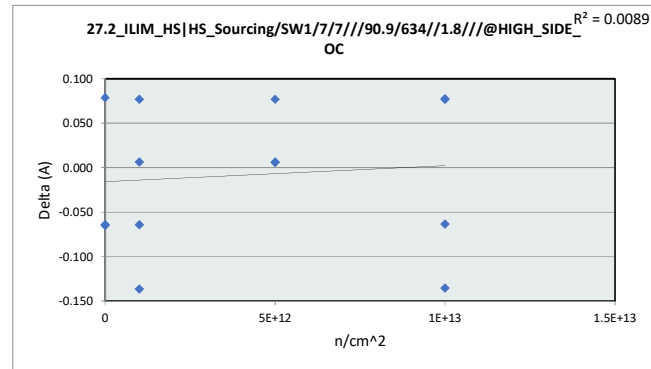


| 34.9_Enable LeakageHigh/EN3/7/7///90.9/634//0///@EN_LKG_CURR |          |          |          |          |
|--------------------------------------------------------------|----------|----------|----------|----------|
| Test Site                                                    |          |          |          |          |
| Tester                                                       |          |          |          |          |
| Test Number                                                  |          |          |          |          |
| Max Limit                                                    | 152      |          | nA       |          |
| Min Limit                                                    | -100     |          | nA       |          |
| n/cm^2                                                       | 0        | 1E+12    | 5E+12    | 1E+13    |
| LL                                                           | -100.000 | -100.000 | -100.000 | -100.000 |
| Min                                                          | 0.000    | 0.000    | 0.000    | 0.000    |
| Average                                                      | 0.000    | 0.000    | 0.000    | 0.000    |
| Max                                                          | 0.000    | 0.000    | 0.000    | 0.000    |
| UL                                                           | 152.000  | 152.000  | 152.000  | 152.000  |

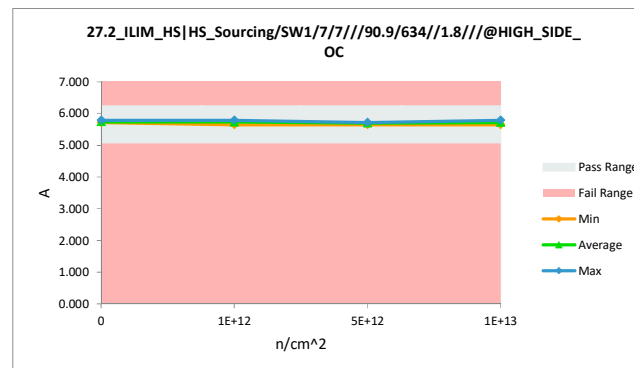


## NDD Report TPS7H4102-SP

| 27.2_ILIM_HS HS_Sourcing/SW1/7/7/// |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | A        | A                   |                    |        |
| Max Limit                           | 6.3      | 6.24                |                    |        |
| Min Limit                           | 5        | 5.06                |                    |        |
| n/cm^2                              | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 5.713               | 5.792              | 0.078  |
| 0                                   | 2        | 5.785               | 5.720              | -0.064 |
| 0                                   | 3        | 5.786               | 5.721              | -0.065 |
| 1E+12                               | 30       | 5.644               | 5.721              | 0.077  |
| 1E+12                               | 31       | 5.786               | 5.649              | -0.137 |
| 1E+12                               | 32       | 5.785               | 5.792              | 0.006  |
| 1E+12                               | 33       | 5.856               | 5.792              | -0.064 |
| 5E+12                               | 34       | 5.714               | 5.720              | 0.006  |
| 5E+12                               | 35       | 5.715               | 5.720              | 0.006  |
| 5E+12                               | 36       | 5.644               | 5.649              | 0.006  |
| 5E+12                               | 37       | 5.644               | 5.721              | 0.077  |
| 1E+13                               | 38       | 5.644               | 5.720              | 0.077  |
| 1E+13                               | 39       | 5.785               | 5.721              | -0.064 |
| 1E+13                               | 40       | 5.785               | 5.650              | -0.136 |
| 1E+13                               | 41       | 5.714               | 5.792              | 0.077  |
|                                     | Max      | 5.856               | 5.792              | 0.078  |
|                                     | Average  | 5.733               | 5.725              | -0.008 |
|                                     | Min      | 5.644               | 5.649              | -0.137 |
|                                     | Std Dev  | 0.068               | 0.050              | 0.077  |



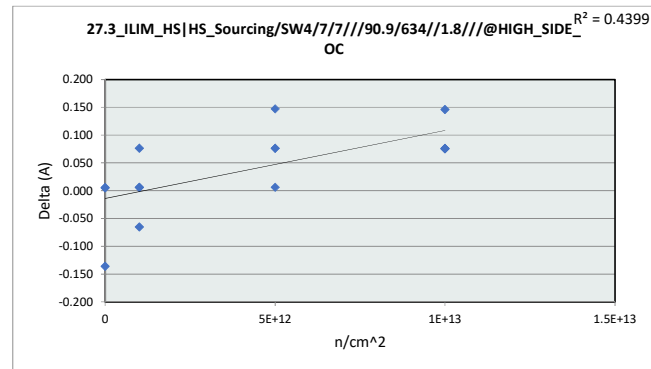
| 27.2_ILIM_HS HS_Sourcing/S |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 6.24  | A     |       |       |
| Min Limit                  | 5.06  | A     |       |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 5.060 | 5.060 | 5.060 | 5.060 |
| Min                        | 5.720 | 5.649 | 5.650 | 5.650 |
| Average                    | 5.744 | 5.738 | 5.703 | 5.721 |
| Max                        | 5.792 | 5.792 | 5.721 | 5.792 |
| UL                         | 6.240 | 6.240 | 6.240 | 6.240 |



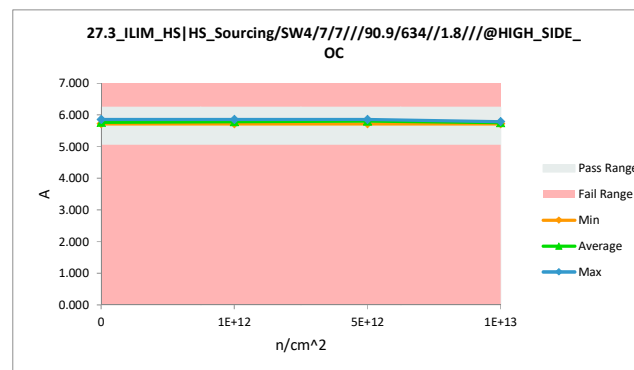


## NDD Report TPS7H4102-SP

| 27.3_ILIM_HS HS_Sourcing/SW4/7/7/// |          |                     |                    |        |
|-------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                           |          |                     |                    |        |
| Tester                              |          |                     |                    |        |
| Test Number                         |          |                     |                    |        |
| Unit                                | A        |                     | A                  |        |
| Max Limit                           | 6.3      |                     | 6.24               |        |
| Min Limit                           | 5        |                     | 5.06               |        |
| n/cm <sup>2</sup>                   | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                   | 1        | 5.712               | 5.717              | 0.005  |
| 0                                   | 2        | 5.853               | 5.717              | -0.136 |
| 0                                   | 3        | 5.853               | 5.859              | 0.006  |
| 1E+12                               | 30       | 5.712               | 5.788              | 0.076  |
| 1E+12                               | 31       | 5.783               | 5.717              | -0.065 |
| 1E+12                               | 32       | 5.783               | 5.788              | 0.006  |
| 1E+12                               | 33       | 5.854               | 5.859              | 0.005  |
| 5E+12                               | 34       | 5.853               | 5.859              | 0.006  |
| 5E+12                               | 35       | 5.783               | 5.859              | 0.076  |
| 5E+12                               | 36       | 5.641               | 5.717              | 0.076  |
| 5E+12                               | 37       | 5.641               | 5.788              | 0.147  |
| 1E+13                               | 38       | 5.713               | 5.788              | 0.076  |
| 1E+13                               | 39       | 5.642               | 5.788              | 0.146  |
| 1E+13                               | 40       | 5.642               | 5.717              | 0.075  |
| 1E+13                               | 41       | 5.642               | 5.718              | 0.076  |
|                                     | Max      | 5.854               | 5.859              | 0.147  |
|                                     | Average  | 5.741               | 5.779              | 0.038  |
|                                     | Min      | 5.641               | 5.717              | -0.136 |
|                                     | Std Dev  | 0.088               | 0.059              | 0.075  |

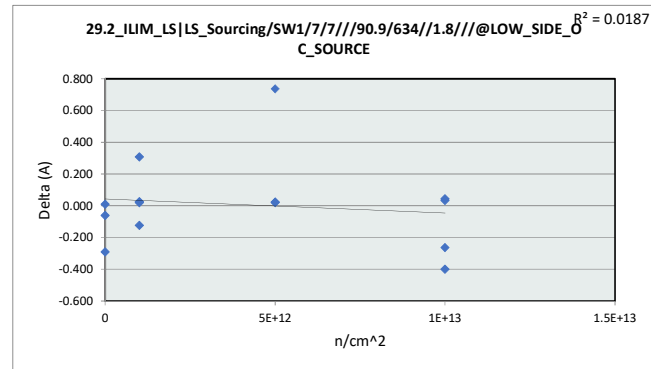


| 27.3_ILIM_HS HS_Sourcing/S |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 6.24  |       | A     |       |
| Min Limit                  | 5.06  |       | A     |       |
| n/cm <sup>2</sup>          | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 5.060 | 5.060 | 5.060 | 5.060 |
| Min                        | 5.717 | 5.717 | 5.717 | 5.717 |
| Average                    | 5.764 | 5.788 | 5.806 | 5.753 |
| Max                        | 5.859 | 5.859 | 5.859 | 5.788 |
| UL                         | 6.240 | 6.240 | 6.240 | 6.240 |

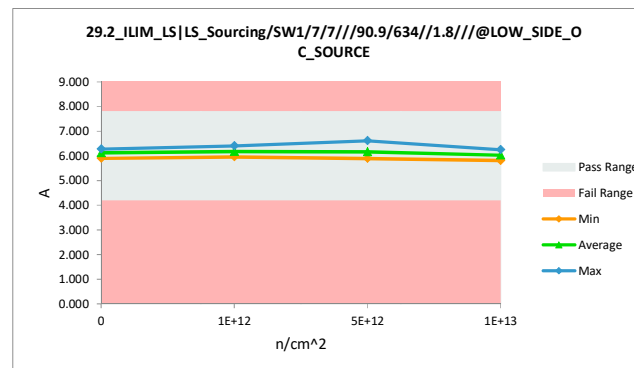


## NDD Report TPS7H4102-SP

| 29.2_ILIM_LS LS_Sourcing/SW1/7/7///90.9/634//1.8///@LOW_SIDE_O |          |                     |                    |        |
|----------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                      |          |                     |                    |        |
| Tester                                                         |          |                     |                    |        |
| Test Number                                                    |          |                     |                    |        |
| Unit                                                           | A        |                     | A                  |        |
| Max Limit                                                      | 7.8      |                     | 7.792              |        |
| Min Limit                                                      | 4.2      |                     | 4.208              |        |
| n/cm^2                                                         | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                              | 1        | 6.193               | 5.902              | -0.292 |
| 0                                                              | 2        | 6.268               | 6.206              | -0.062 |
| 0                                                              | 3        | 6.268               | 6.276              | 0.008  |
| 1E+12                                                          | 30       | 5.946               | 6.253              | 0.307  |
| 1E+12                                                          | 31       | 6.081               | 5.956              | -0.125 |
| 1E+12                                                          | 32       | 6.081               | 6.099              | 0.018  |
| 1E+12                                                          | 33       | 6.384               | 6.409              | 0.025  |
| 5E+12                                                          | 34       | 6.144               | 6.166              | 0.022  |
| 5E+12                                                          | 35       | 5.961               | 5.978              | 0.017  |
| 5E+12                                                          | 36       | 5.873               | 5.897              | 0.023  |
| 5E+12                                                          | 37       | 5.878               | 6.614              | 0.736  |
| 1E+13                                                          | 38       | 6.066               | 6.109              | 0.043  |
| 1E+13                                                          | 39       | 6.216               | 5.815              | -0.401 |
| 1E+13                                                          | 40       | 6.213               | 5.949              | -0.264 |
| 1E+13                                                          | 41       | 6.216               | 6.249              | 0.033  |
|                                                                | Max      | 6.384               | 6.614              | 0.736  |
|                                                                | Average  | 6.119               | 6.125              | 0.006  |
|                                                                | Min      | 5.873               | 5.815              | -0.401 |
|                                                                | Std Dev  | 0.153               | 0.217              | 0.264  |

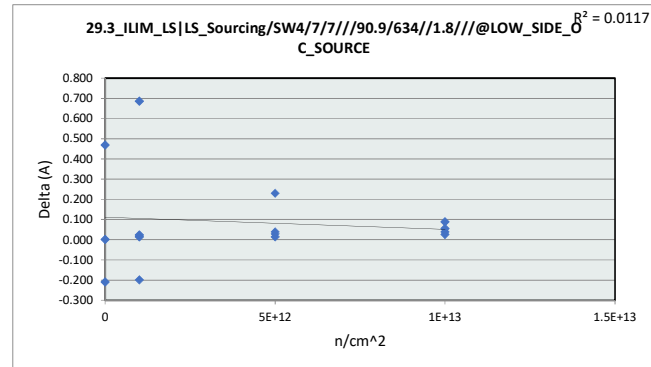


| 29.2_ILIM_LS LS_Sourcing/SW1/7/7///90.9/634//1.8///@LOW_SIDE_O |       |       |       |       |
|----------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                      |       |       |       |       |
| Tester                                                         |       |       |       |       |
| Test Number                                                    |       |       |       |       |
| Max Limit                                                      | 7.792 |       | A     |       |
| Min Limit                                                      | 4.208 |       | A     |       |
| n/cm^2                                                         | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                             | 4.208 | 4.208 | 4.208 | 4.208 |
| Min                                                            | 5.902 | 5.956 | 5.897 | 5.815 |
| Average                                                        | 6.128 | 6.179 | 6.163 | 6.030 |
| Max                                                            | 6.276 | 6.409 | 6.614 | 6.249 |
| UL                                                             | 7.792 | 7.792 | 7.792 | 7.792 |

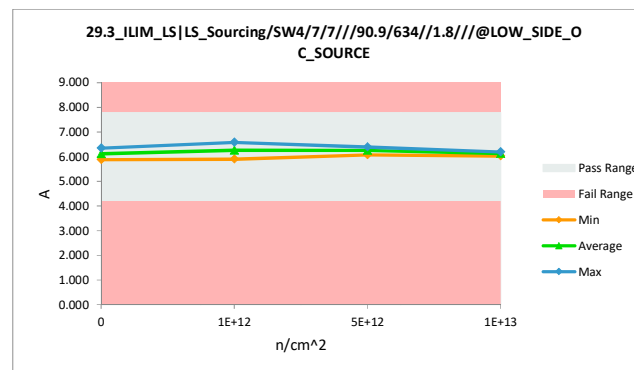


## NDD Report TPS7H4102-SP

| 29.3_ILIM_LS LS_Sourcing/SW4/7/7///90.9/634//1.8///@LOW_SIDE_O |          |                     |                    |        |
|----------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                      |          |                     |                    |        |
| Tester                                                         |          |                     |                    |        |
| Test Number                                                    |          |                     |                    |        |
| Unit                                                           | A        | A                   |                    |        |
| Max Limit                                                      | 7.8      | 7.792               |                    |        |
| Min Limit                                                      | 4.2      | 4.208               |                    |        |
| n/cm^2                                                         | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                              | 1        | 6.342               | 6.132              | -0.210 |
| 0                                                              | 2        | 5.876               | 6.344              | 0.467  |
| 0                                                              | 3        | 5.878               | 5.879              | 0.000  |
| 1E+12                                                          | 30       | 5.897               | 6.582              | 0.685  |
| 1E+12                                                          | 31       | 6.104               | 5.904              | -0.201 |
| 1E+12                                                          | 32       | 6.104               | 6.117              | 0.013  |
| 1E+12                                                          | 33       | 6.429               | 6.451              | 0.022  |
| 5E+12                                                          | 34       | 6.364               | 6.392              | 0.028  |
| 5E+12                                                          | 35       | 6.216               | 6.254              | 0.037  |
| 5E+12                                                          | 36       | 6.061               | 6.074              | 0.013  |
| 5E+12                                                          | 37       | 6.059               | 6.287              | 0.229  |
| 1E+13                                                          | 38       | 5.991               | 6.029              | 0.038  |
| 1E+13                                                          | 39       | 6.102               | 6.189              | 0.087  |
| 1E+13                                                          | 40       | 6.104               | 6.129              | 0.025  |
| 1E+13                                                          | 41       | 6.105               | 6.159              | 0.054  |
|                                                                | Max      | 6.429               | 6.582              | 0.685  |
|                                                                | Average  | 6.109               | 6.195              | 0.086  |
|                                                                | Min      | 5.876               | 5.879              | -0.210 |
|                                                                | Std Dev  | 0.170               | 0.195              | 0.228  |

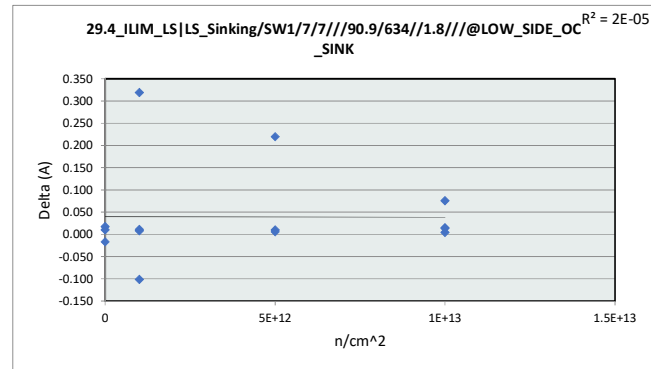


| 29.3_ILIM_LS LS_Sourcing/SW4/7/7///90.9/634//1.8///@LOW_SIDE_O |       |       |       |       |
|----------------------------------------------------------------|-------|-------|-------|-------|
| Test Site                                                      |       |       |       |       |
| Tester                                                         |       |       |       |       |
| Test Number                                                    |       |       |       |       |
| Max Limit                                                      | 7.792 | A     |       |       |
| Min Limit                                                      | 4.208 | A     |       |       |
| n/cm^2                                                         | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                                                             | 4.208 | 4.208 | 4.208 | 4.208 |
| Min                                                            | 5.879 | 5.904 | 6.074 | 6.029 |
| Average                                                        | 6.118 | 6.264 | 6.252 | 6.127 |
| Max                                                            | 6.344 | 6.582 | 6.392 | 6.189 |
| UL                                                             | 7.792 | 7.792 | 7.792 | 7.792 |

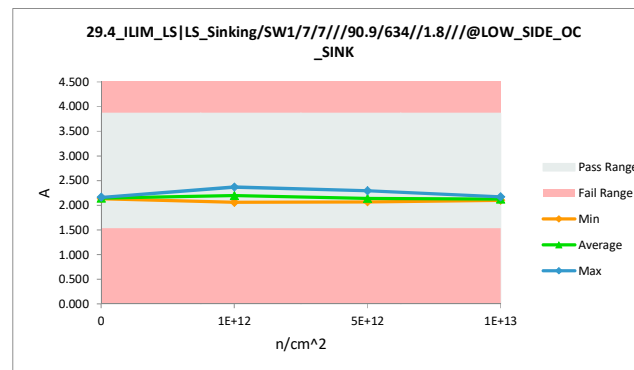


## NDD Report TPS7H4102-SP

| 29.4_ILIM_LS LS_Sinking/SW1/7/7//90.9/634//1.8///@LOW_SIDE_OC |          |                     |                    |        |
|---------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                     |          |                     |                    |        |
| Tester                                                        |          |                     |                    |        |
| Test Number                                                   |          |                     |                    |        |
| Unit                                                          | A        |                     | A                  |        |
| Max Limit                                                     | 3.9      |                     | 3.867              |        |
| Min Limit                                                     | 1.5      |                     | 1.533              |        |
| n/cm^2                                                        | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                             | 1        | 2.126               | 2.143              | 0.017  |
| 0                                                             | 2        | 2.151               | 2.133              | -0.017 |
| 0                                                             | 3        | 2.151               | 2.160              | 0.009  |
| 1E+12                                                         | 30       | 2.049               | 2.368              | 0.319  |
| 1E+12                                                         | 31       | 2.160               | 2.059              | -0.102 |
| 1E+12                                                         | 32       | 2.159               | 2.167              | 0.008  |
| 1E+12                                                         | 33       | 2.184               | 2.194              | 0.011  |
| 5E+12                                                         | 34       | 2.066               | 2.071              | 0.005  |
| 5E+12                                                         | 35       | 2.082               | 2.091              | 0.009  |
| 5E+12                                                         | 36       | 2.077               | 2.085              | 0.007  |
| 5E+12                                                         | 37       | 2.076               | 2.295              | 0.219  |
| 1E+13                                                         | 38       | 2.102               | 2.115              | 0.013  |
| 1E+13                                                         | 39       | 2.097               | 2.101              | 0.004  |
| 1E+13                                                         | 40       | 2.097               | 2.172              | 0.075  |
| 1E+13                                                         | 41       | 2.097               | 2.111              | 0.014  |
|                                                               | Max      | 2.184               | 2.368              | 0.319  |
|                                                               | Average  | 2.112               | 2.151              | 0.039  |
|                                                               | Min      | 2.049               | 2.059              | -0.102 |
|                                                               | Std Dev  | 0.041               | 0.084              | 0.101  |

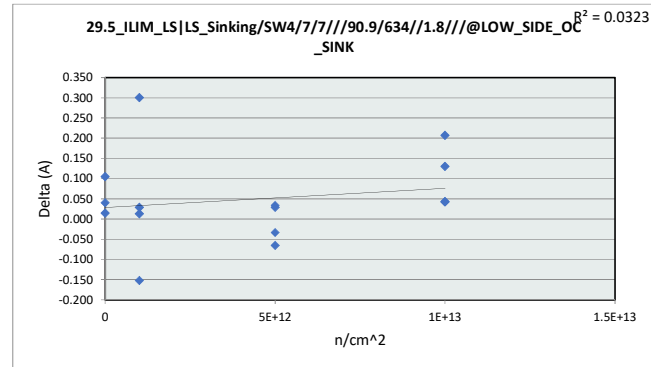


| 29.4_ILIM_LS LS_Sinking/SW |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 3.867 |       | A     |       |
| Min Limit                  | 1.533 |       | A     |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 1.533 | 1.533 | 1.533 | 1.533 |
| Min                        | 2.133 | 2.059 | 2.071 | 2.101 |
| Average                    | 2.146 | 2.197 | 2.135 | 2.125 |
| Max                        | 2.160 | 2.368 | 2.295 | 2.172 |
| UL                         | 3.867 | 3.867 | 3.867 | 3.867 |

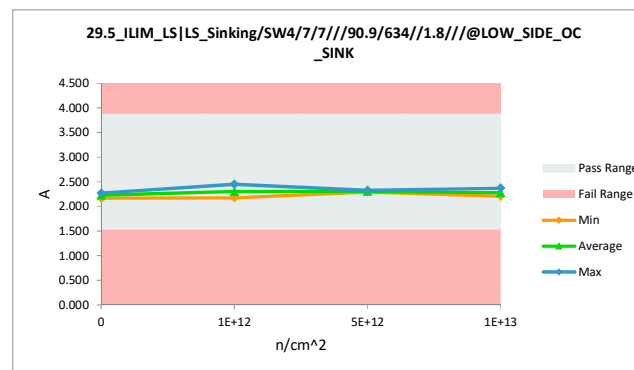


## NDD Report TPS7H4102-SP

| 29.5_ILIM_LS LS_Sinking/SW4/7/7//90.9/634/1.8//@LOW_SIDE_OC |          |                     |                    |        |
|-------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                   |          |                     |                    |        |
| Tester                                                      |          |                     |                    |        |
| Test Number                                                 |          |                     |                    |        |
| Unit                                                        | A        |                     | A                  |        |
| Max Limit                                                   | 3.9      |                     | 3.867              |        |
| Min Limit                                                   | 1.5      |                     | 1.533              |        |
| n/cm^2                                                      | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                           | 1        | 2.230               | 2.269              | 0.039  |
| 0                                                           | 2        | 2.149               | 2.253              | 0.104  |
| 0                                                           | 3        | 2.151               | 2.165              | 0.014  |
| 1E+12                                                       | 30       | 2.149               | 2.449              | 0.300  |
| 1E+12                                                       | 31       | 2.325               | 2.172              | -0.153 |
| 1E+12                                                       | 32       | 2.325               | 2.337              | 0.012  |
| 1E+12                                                       | 33       | 2.211               | 2.240              | 0.029  |
| 5E+12                                                       | 34       | 2.267               | 2.295              | 0.028  |
| 5E+12                                                       | 35       | 2.268               | 2.301              | 0.033  |
| 5E+12                                                       | 36       | 2.360               | 2.326              | -0.034 |
| 5E+12                                                       | 37       | 2.359               | 2.293              | -0.066 |
| 1E+13                                                       | 38       | 2.205               | 2.247              | 0.043  |
| 1E+13                                                       | 39       | 2.161               | 2.291              | 0.130  |
| 1E+13                                                       | 40       | 2.163               | 2.370              | 0.207  |
| 1E+13                                                       | 41       | 2.161               | 2.203              | 0.042  |
|                                                             | Max      | 2.360               | 2.449              | 0.300  |
|                                                             | Average  | 2.232               | 2.281              | 0.049  |
|                                                             | Min      | 2.149               | 2.165              | -0.153 |
|                                                             | Std Dev  | 0.079               | 0.074              | 0.108  |

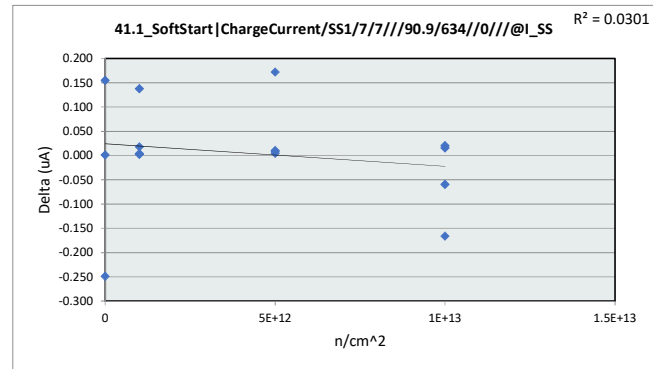


| 29.5_ILIM_LS LS_Sinking/SW |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Test Site                  |       |       |       |       |
| Tester                     |       |       |       |       |
| Test Number                |       |       |       |       |
| Max Limit                  | 3.867 |       | A     |       |
| Min Limit                  | 1.533 |       | A     |       |
| n/cm^2                     | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                         | 1.533 | 1.533 | 1.533 | 1.533 |
| Min                        | 2.165 | 2.172 | 2.293 | 2.203 |
| Average                    | 2.229 | 2.300 | 2.304 | 2.278 |
| Max                        | 2.269 | 2.449 | 2.326 | 2.370 |
| UL                         | 3.867 | 3.867 | 3.867 | 3.867 |

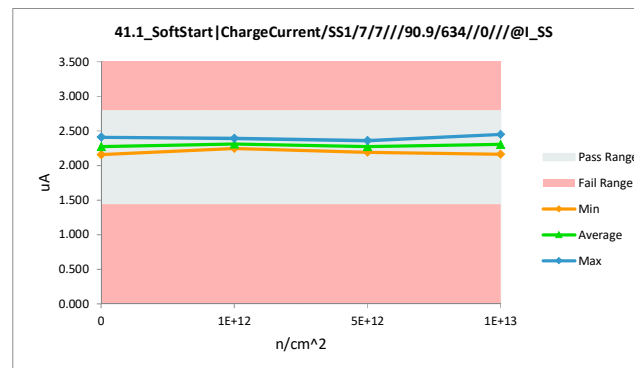


## NDD Report TPS7H4102-SP

| 41.1_SoftStart ChargeCurrent/SS1/7/7/ |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | uA       |                     | uA                 |        |
| Max Limit                             | 2.83     |                     | 2.79               |        |
| Min Limit                             | 1.4      |                     | 1.44               |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 2.407               | 2.157              | -0.250 |
| 0                                     | 2        | 2.254               | 2.409              | 0.155  |
| 0                                     | 3        | 2.254               | 2.255              | 0.001  |
| 1E+12                                 | 30       | 2.256               | 2.394              | 0.137  |
| 1E+12                                 | 31       | 2.242               | 2.260              | 0.018  |
| 1E+12                                 | 32       | 2.242               | 2.245              | 0.003  |
| 1E+12                                 | 33       | 2.339               | 2.340              | 0.002  |
| 5E+12                                 | 34       | 2.315               | 2.322              | 0.007  |
| 5E+12                                 | 35       | 2.215               | 2.225              | 0.010  |
| 5E+12                                 | 36       | 2.189               | 2.193              | 0.004  |
| 5E+12                                 | 37       | 2.188               | 2.360              | 0.172  |
| 1E+13                                 | 38       | 2.429               | 2.450              | 0.020  |
| 1E+13                                 | 39       | 2.330               | 2.164              | -0.166 |
| 1E+13                                 | 40       | 2.331               | 2.271              | -0.060 |
| 1E+13                                 | 41       | 2.330               | 2.345              | 0.015  |
|                                       | Max      | 2.429               | 2.450              | 0.172  |
|                                       | Average  | 2.288               | 2.293              | 0.005  |
|                                       | Min      | 2.188               | 2.157              | -0.250 |
|                                       | Std Dev  | 0.073               | 0.090              | 0.109  |

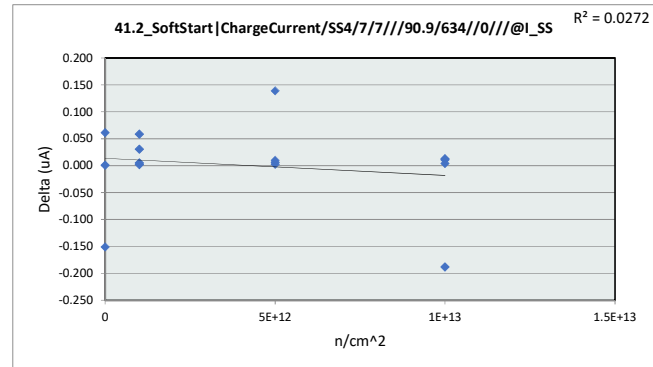


| 41.1_SoftStart ChargeCurrent |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Test Site                    |       |       |       |       |
| Tester                       |       |       |       |       |
| Test Number                  |       |       |       |       |
| Max Limit                    | 2.79  |       | uA    |       |
| Min Limit                    | 1.44  |       | uA    |       |
| n/cm^2                       | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                           | 1.440 | 1.440 | 1.440 | 1.440 |
| Min                          | 2.157 | 2.245 | 2.193 | 2.164 |
| Average                      | 2.274 | 2.310 | 2.275 | 2.307 |
| Max                          | 2.409 | 2.394 | 2.360 | 2.450 |
| UL                           | 2.790 | 2.790 | 2.790 | 2.790 |

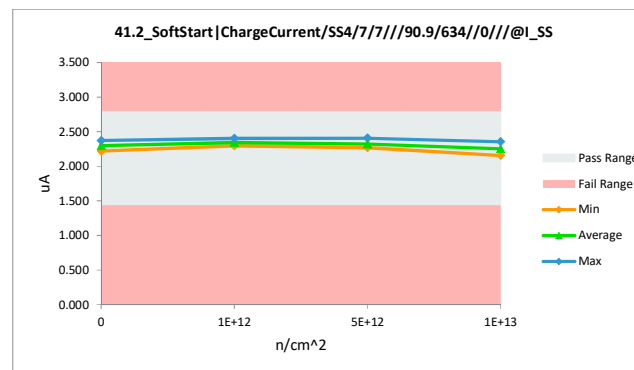


## NDD Report TPS7H4102-SP

| 41.2_SoftStart ChargeCurrent/SS4/7/7/ |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | uA       |                     | uA                 |        |
| Max Limit                             | 2.83     |                     | 2.79               |        |
| Min Limit                             | 1.4      |                     | 1.44               |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 2.372               | 2.220              | -0.151 |
| 0                                     | 2        | 2.312               | 2.373              | 0.061  |
| 0                                     | 3        | 2.311               | 2.311              | 0.001  |
| 1E+12                                 | 30       | 2.346               | 2.405              | 0.058  |
| 1E+12                                 | 31       | 2.319               | 2.350              | 0.030  |
| 1E+12                                 | 32       | 2.317               | 2.319              | 0.002  |
| 1E+12                                 | 33       | 2.292               | 2.297              | 0.005  |
| 5E+12                                 | 34       | 2.314               | 2.320              | 0.006  |
| 5E+12                                 | 35       | 2.290               | 2.299              | 0.010  |
| 5E+12                                 | 36       | 2.267               | 2.269              | 0.003  |
| 5E+12                                 | 37       | 2.266               | 2.405              | 0.139  |
| 1E+13                                 | 38       | 2.144               | 2.157              | 0.013  |
| 1E+13                                 | 39       | 2.344               | 2.156              | -0.189 |
| 1E+13                                 | 40       | 2.345               | 2.349              | 0.004  |
| 1E+13                                 | 41       | 2.344               | 2.355              | 0.011  |
|                                       | Max      | 2.372               | 2.405              | 0.139  |
|                                       | Average  | 2.305               | 2.306              | 0.000  |
|                                       | Min      | 2.144               | 2.156              | -0.189 |
|                                       | Std Dev  | 0.054               | 0.078              | 0.078  |

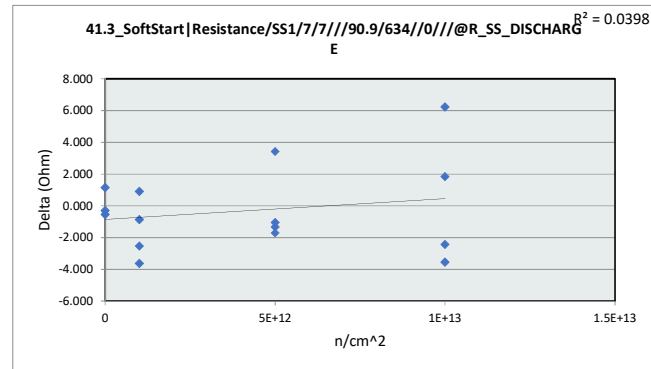


| 41.2_SoftStart ChargeCurrent |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Test Site                    |       |       |       |       |
| Tester                       |       |       |       |       |
| Test Number                  |       |       |       |       |
| Max Limit                    | 2.79  |       | uA    |       |
| Min Limit                    | 1.44  |       | uA    |       |
| n/cm^2                       | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                           | 1.440 | 1.440 | 1.440 | 1.440 |
| Min                          | 2.220 | 2.297 | 2.269 | 2.156 |
| Average                      | 2.301 | 2.342 | 2.324 | 2.254 |
| Max                          | 2.373 | 2.405 | 2.405 | 2.355 |
| UL                           | 2.790 | 2.790 | 2.790 | 2.790 |

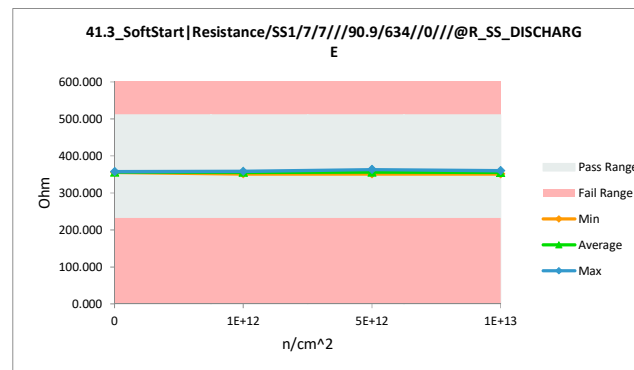


## NDD Report TPS7H4102-SP

| 41.3_SoftStart Resistance/SS1/7/7///90 |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | Ohm      | Ohm                 |                    |        |
| Max Limit                              | 513      | 511                 |                    |        |
| Min Limit                              | 230      | 232                 |                    |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 356.183             | 357.313            | 1.129  |
| 0                                      | 2        | 355.622             | 355.311            | -0.310 |
| 0                                      | 3        | 355.649             | 355.092            | -0.556 |
| 1E+12                                  | 30       | 357.495             | 358.392            | 0.897  |
| 1E+12                                  | 31       | 359.706             | 356.067            | -3.639 |
| 1E+12                                  | 32       | 359.729             | 357.192            | -2.536 |
| 1E+12                                  | 33       | 352.142             | 351.263            | -0.879 |
| 5E+12                                  | 34       | 352.774             | 351.430            | -1.344 |
| 5E+12                                  | 35       | 353.791             | 352.723            | -1.068 |
| 5E+12                                  | 36       | 359.116             | 357.402            | -1.714 |
| 5E+12                                  | 37       | 359.416             | 362.828            | 3.412  |
| 1E+13                                  | 38       | 357.992             | 354.435            | -3.558 |
| 1E+13                                  | 39       | 353.421             | 359.641            | 6.220  |
| 1E+13                                  | 40       | 353.627             | 355.464            | 1.837  |
| 1E+13                                  | 41       | 353.945             | 351.507            | -2.438 |
|                                        | Max      | 359.729             | 362.828            | 6.220  |
|                                        | Average  | 356.040             | 355.737            | -0.303 |
|                                        | Min      | 352.142             | 351.263            | -3.639 |
|                                        | Std Dev  | 2.701               | 3.251              | 2.669  |



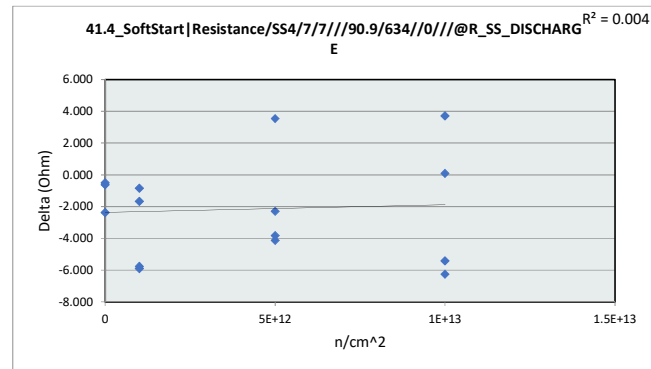
| 41.3_SoftStart Resistance/SS1/7/7///90.9/634//0///@R_SS_DISCHARG E |         |         |         |         |
|--------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                          |         |         |         |         |
| Tester                                                             |         |         |         |         |
| Test Number                                                        |         |         |         |         |
| Max Limit                                                          | 511     | Ohm     |         |         |
| Min Limit                                                          | 232     | Ohm     |         |         |
| n/cm^2                                                             | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                                 | 232.000 | 232.000 | 232.000 | 232.000 |
| Min                                                                | 355.092 | 351.263 | 351.430 | 351.507 |
| Average                                                            | 355.905 | 355.729 | 356.096 | 355.262 |
| Max                                                                | 357.313 | 358.392 | 362.828 | 359.641 |
| UL                                                                 | 511.000 | 511.000 | 511.000 | 511.000 |



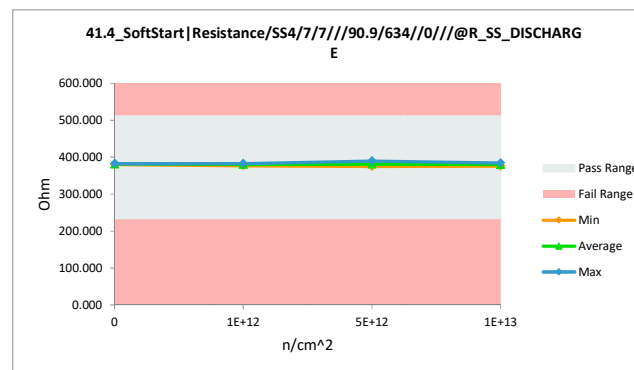


## NDD Report TPS7H4102-SP

| 41.4_SoftStart Resistance/SS4/7/7///90.9/634//0///@R_SS_DISCHARG |          |                     |                    |        |
|------------------------------------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                                                        |          |                     |                    |        |
| Tester                                                           |          |                     |                    |        |
| Test Number                                                      |          |                     |                    |        |
| Unit                                                             | Ohm      | Ohm                 |                    |        |
| Max Limit                                                        | 513      | 511                 |                    |        |
| Min Limit                                                        | 230      | 232                 |                    |        |
| n/cm <sup>2</sup>                                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                                                | 1        | 382.133             | 381.502            | -0.631 |
| 0                                                                | 2        | 382.800             | 380.409            | -2.391 |
| 0                                                                | 3        | 382.690             | 382.181            | -0.509 |
| 1E+12                                                            | 30       | 383.353             | 382.493            | -0.859 |
| 1E+12                                                            | 31       | 387.328             | 381.412            | -5.916 |
| 1E+12                                                            | 32       | 387.252             | 381.480            | -5.772 |
| 1E+12                                                            | 33       | 377.994             | 376.309            | -1.685 |
| 5E+12                                                            | 34       | 379.217             | 375.073            | -4.143 |
| 5E+12                                                            | 35       | 379.675             | 377.367            | -2.308 |
| 5E+12                                                            | 36       | 386.068             | 382.237            | -3.831 |
| 5E+12                                                            | 37       | 386.146             | 389.672            | 3.526  |
| 1E+13                                                            | 38       | 385.475             | 379.216            | -6.259 |
| 1E+13                                                            | 39       | 380.367             | 384.078            | 3.710  |
| 1E+13                                                            | 40       | 380.739             | 380.819            | 0.079  |
| 1E+13                                                            | 41       | 380.772             | 375.347            | -5.425 |
|                                                                  | Max      | 387.328             | 389.672            | 3.710  |
|                                                                  | Average  | 382.801             | 380.640            | -2.161 |
|                                                                  | Min      | 377.994             | 375.073            | -6.259 |
|                                                                  | Std Dev  | 3.048               | 3.726              | 3.165  |

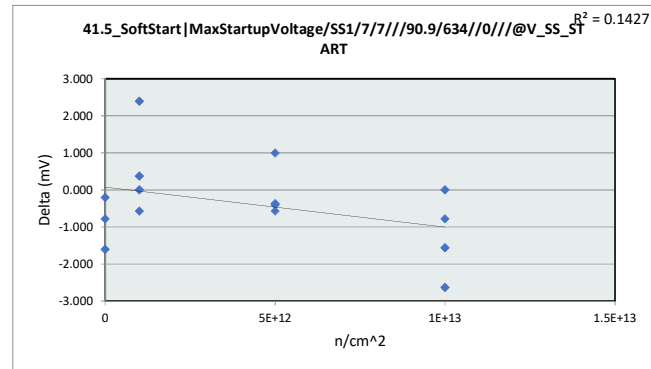


| 41.4_SoftStart Resistance/SS4/7/7///90.9/634//0///@R_SS_DISCHARG |         |         |         |         |
|------------------------------------------------------------------|---------|---------|---------|---------|
| Test Site                                                        |         |         |         |         |
| Tester                                                           |         |         |         |         |
| Test Number                                                      |         |         |         |         |
| Max Limit                                                        | 511     | Ohm     |         |         |
| Min Limit                                                        | 232     | Ohm     |         |         |
| n/cm <sup>2</sup>                                                | 0       | 1E+12   | 5E+12   | 1E+13   |
| LL                                                               | 232.000 | 232.000 | 232.000 | 232.000 |
| Min                                                              | 380.409 | 376.309 | 375.073 | 375.347 |
| Average                                                          | 381.364 | 380.424 | 381.088 | 379.865 |
| Max                                                              | 382.181 | 382.493 | 389.672 | 384.078 |
| UL                                                               | 511.000 | 511.000 | 511.000 | 511.000 |

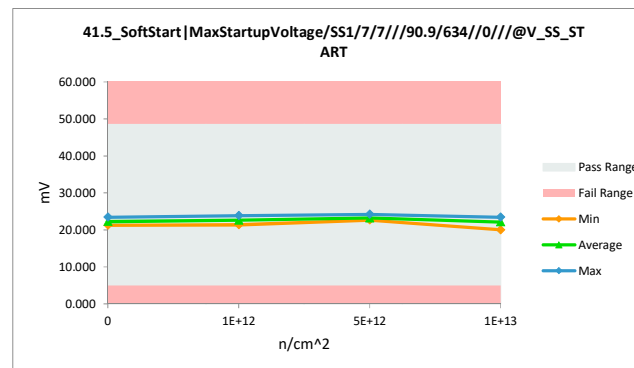


## NDD Report TPS7H4102-SP

| 41.5_SoftStart MaxStartupVoltage/SS1/7 |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | mV       |                     | mV                 |        |
| Max Limit                              | 50       |                     | 48.5               |        |
| Min Limit                              | -3.7     |                     | 5                  |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 22.032              | 21.249             | -0.783 |
| 0                                      | 2        | 23.639              | 22.032             | -1.608 |
| 0                                      | 3        | 23.639              | 23.433             | -0.206 |
| 1E+12                                  | 30       | 24.423              | 23.846             | -0.577 |
| 1E+12                                  | 31       | 21.249              | 23.639             | 2.391  |
| 1E+12                                  | 32       | 21.249              | 21.620             | 0.371  |
| 1E+12                                  | 33       | 21.414              | 21.414             | 0.000  |
| 5E+12                                  | 34       | 23.021              | 22.650             | -0.371 |
| 5E+12                                  | 35       | 23.846              | 23.433             | -0.412 |
| 5E+12                                  | 36       | 23.227              | 22.650             | -0.577 |
| 5E+12                                  | 37       | 23.227              | 24.217             | 0.989  |
| 1E+13                                  | 38       | 24.217              | 23.433             | -0.783 |
| 1E+13                                  | 39       | 22.650              | 22.650             | 0.000  |
| 1E+13                                  | 40       | 22.650              | 20.012             | -2.638 |
| 1E+13                                  | 41       | 24.010              | 22.444             | -1.566 |
|                                        | Max      | 24.423              | 24.217             | 2.391  |
|                                        | Average  | 22.966              | 22.582             | -0.385 |
|                                        | Min      | 21.249              | 20.012             | -2.638 |
|                                        | Std Dev  | 1.068               | 1.152              | 1.160  |

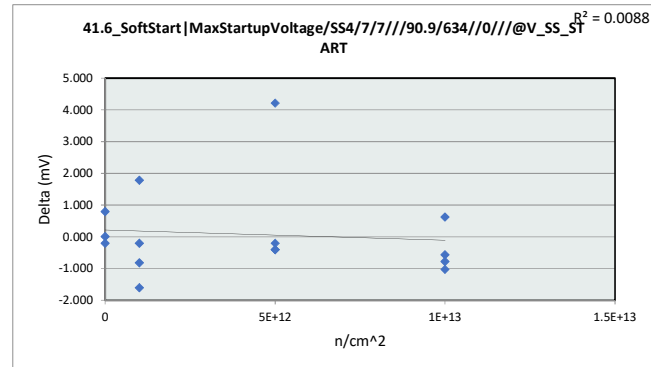


| 41.5_SoftStart MaxStartupVoltage/SS1/7/7///90.9/634//0///@V_SS_ST |        |        |        |        |
|-------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                         |        |        |        |        |
| Tester                                                            |        |        |        |        |
| Test Number                                                       |        |        |        |        |
| Max Limit                                                         | 48.5   |        | mV     |        |
| Min Limit                                                         | 5      |        | mV     |        |
| n/cm^2                                                            | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                                | 5.000  | 5.000  | 5.000  | 5.000  |
| Min                                                               | 21.249 | 21.414 | 22.650 | 20.012 |
| Average                                                           | 22.238 | 22.630 | 23.238 | 22.135 |
| Max                                                               | 23.433 | 23.846 | 24.217 | 23.433 |
| UL                                                                | 48.500 | 48.500 | 48.500 | 48.500 |

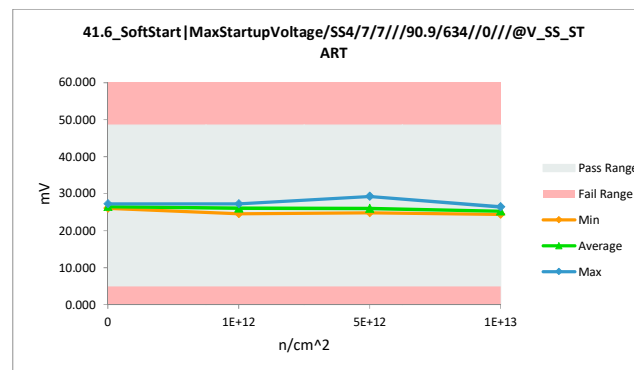


## NDD Report TPS7H4102-SP

| 41.6_SoftStart MaxStartupVoltage/SS4/7 |          |                     |                    |        |
|----------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                              |          |                     |                    |        |
| Tester                                 |          |                     |                    |        |
| Test Number                            |          |                     |                    |        |
| Unit                                   | mV       |                     | mV                 |        |
| Max Limit                              | 50       |                     | 48.5               |        |
| Min Limit                              | -3.7     |                     | 5                  |        |
| n/cm^2                                 | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                      | 1        | 26.442              | 27.226             | 0.783  |
| 0                                      | 2        | 26.236              | 26.236             | 0.000  |
| 0                                      | 3        | 26.236              | 26.030             | -0.206 |
| 1E+12                                  | 30       | 27.432              | 25.824             | -1.608 |
| 1E+12                                  | 31       | 25.453              | 27.226             | 1.772  |
| 1E+12                                  | 32       | 25.453              | 24.629             | -0.824 |
| 1E+12                                  | 33       | 26.855              | 26.649             | -0.206 |
| 5E+12                                  | 34       | 25.453              | 25.041             | -0.412 |
| 5E+12                                  | 35       | 25.247              | 24.835             | -0.412 |
| 5E+12                                  | 36       | 25.041              | 24.835             | -0.206 |
| 5E+12                                  | 37       | 25.041              | 29.245             | 4.204  |
| 1E+13                                  | 38       | 25.453              | 24.423             | -1.030 |
| 1E+13                                  | 39       | 25.824              | 26.442             | 0.618  |
| 1E+13                                  | 40       | 25.824              | 25.247             | -0.577 |
| 1E+13                                  | 41       | 25.824              | 25.041             | -0.783 |
|                                        | Max      | 27.432              | 29.245             | 4.204  |
|                                        | Average  | 25.854              | 25.929             | 0.074  |
|                                        | Min      | 25.041              | 24.423             | -1.608 |
|                                        | Std Dev  | 0.680               | 1.300              | 1.401  |

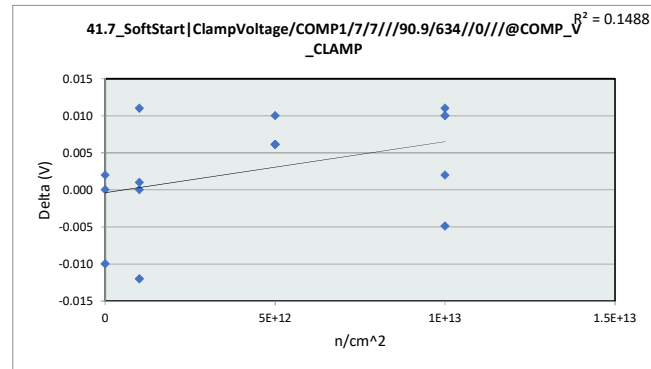


| 41.6_SoftStart MaxStartupVoltage/SS4/7/7///90.9/634//0///@V_SS_ST |        |        |        |        |
|-------------------------------------------------------------------|--------|--------|--------|--------|
| Test Site                                                         |        |        |        |        |
| Tester                                                            |        |        |        |        |
| Test Number                                                       |        |        |        |        |
| Max Limit                                                         | 48.5   |        | mV     |        |
| Min Limit                                                         | 5      |        | mV     |        |
| n/cm^2                                                            | 0      | 1E+12  | 5E+12  | 1E+13  |
| LL                                                                | 5.000  | 5.000  | 5.000  | 5.000  |
| Min                                                               | 26.030 | 24.629 | 24.835 | 24.423 |
| Average                                                           | 26.497 | 26.082 | 25.989 | 25.288 |
| Max                                                               | 27.226 | 27.226 | 29.245 | 26.442 |
| UL                                                                | 48.500 | 48.500 | 48.500 | 48.500 |

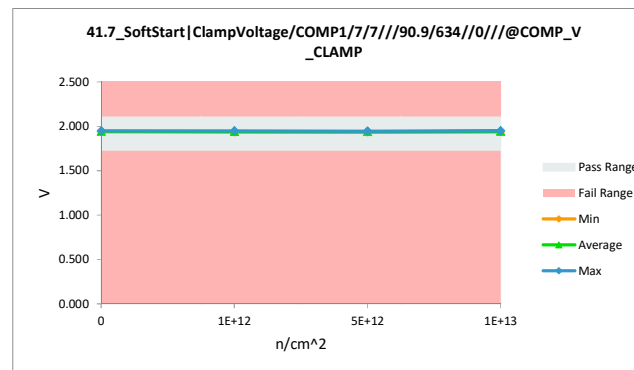


## NDD Report TPS7H4102-SP

| 41.7_SoftStart ClampVoltage/COMP1/7/7 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | V        |                     | V                  |        |
| Max Limit                             | 2.13     |                     | 2.105              |        |
| Min Limit                             | 1.7      |                     | 1.725              |        |
| n/cm^2                                | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 1.948               | 1.938              | -0.010 |
| 0                                     | 2        | 1.946               | 1.948              | 0.002  |
| 0                                     | 3        | 1.946               | 1.946              | 0.000  |
| 1E+12                                 | 30       | 1.934               | 1.945              | 0.011  |
| 1E+12                                 | 31       | 1.947               | 1.935              | -0.012 |
| 1E+12                                 | 32       | 1.947               | 1.947              | 0.000  |
| 1E+12                                 | 33       | 1.939               | 1.941              | 0.001  |
| 5E+12                                 | 34       | 1.939               | 1.945              | 0.006  |
| 5E+12                                 | 35       | 1.928               | 1.934              | 0.006  |
| 5E+12                                 | 36       | 1.929               | 1.936              | 0.006  |
| 5E+12                                 | 37       | 1.929               | 1.939              | 0.010  |
| 1E+13                                 | 38       | 1.931               | 1.942              | 0.011  |
| 1E+13                                 | 39       | 1.941               | 1.936              | -0.005 |
| 1E+13                                 | 40       | 1.941               | 1.942              | 0.002  |
| 1E+13                                 | 41       | 1.941               | 1.951              | 0.010  |
|                                       | Max      | 1.948               | 1.951              | 0.011  |
|                                       | Average  | 1.939               | 1.941              | 0.003  |
|                                       | Min      | 1.928               | 1.934              | -0.012 |
|                                       | Std Dev  | 0.007               | 0.005              | 0.007  |

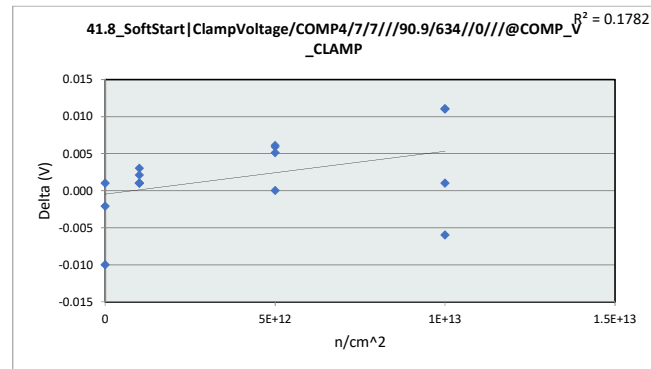


| 41.7_SoftStart ClampVoltage/ |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Test Site                    |       |       |       |       |
| Tester                       |       |       |       |       |
| Test Number                  |       |       |       |       |
| Max Limit                    | 2.105 |       | V     |       |
| Min Limit                    | 1.725 |       | V     |       |
| n/cm^2                       | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                           | 1.725 | 1.725 | 1.725 | 1.725 |
| Min                          | 1.938 | 1.935 | 1.934 | 1.936 |
| Average                      | 1.944 | 1.942 | 1.938 | 1.943 |
| Max                          | 1.948 | 1.947 | 1.945 | 1.951 |
| UL                           | 2.105 | 2.105 | 2.105 | 2.105 |

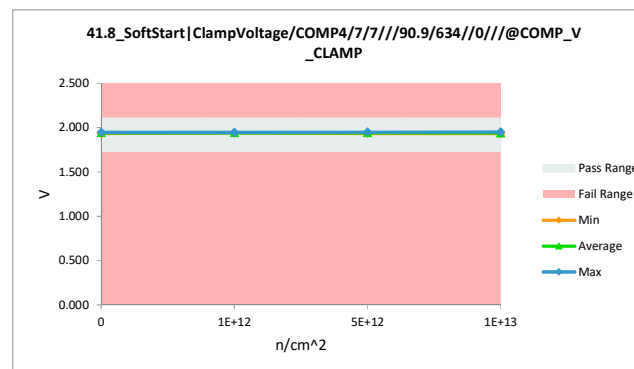


## NDD Report TPS7H4102-SP

| 41.8_SoftStart ClampVoltage/COMP4/7/7 |          |                     |                    |        |
|---------------------------------------|----------|---------------------|--------------------|--------|
| Test Site                             |          |                     |                    |        |
| Tester                                |          |                     |                    |        |
| Test Number                           |          |                     |                    |        |
| Unit                                  | V        |                     | V                  |        |
| Max Limit                             | 2.13     |                     | 2.105              |        |
| Min Limit                             | 1.7      |                     | 1.725              |        |
| n/cm <sup>2</sup>                     | Serial # | Post_NDD_TPS7H4102- | Pre_NDD_TPS7H4102- | Delta  |
| 0                                     | 1        | 1.942               | 1.933              | -0.010 |
| 0                                     | 2        | 1.946               | 1.944              | -0.002 |
| 0                                     | 3        | 1.946               | 1.947              | 0.001  |
| 1E+12                                 | 30       | 1.941               | 1.941              | 0.001  |
| 1E+12                                 | 31       | 1.939               | 1.941              | 0.003  |
| 1E+12                                 | 32       | 1.939               | 1.939              | 0.001  |
| 1E+12                                 | 33       | 1.944               | 1.946              | 0.002  |
| 5E+12                                 | 34       | 1.941               | 1.948              | 0.006  |
| 5E+12                                 | 35       | 1.939               | 1.945              | 0.005  |
| 5E+12                                 | 36       | 1.935               | 1.941              | 0.006  |
| 5E+12                                 | 37       | 1.935               | 1.935              | 0.000  |
| 1E+13                                 | 38       | 1.928               | 1.939              | 0.011  |
| 1E+13                                 | 39       | 1.939               | 1.933              | -0.006 |
| 1E+13                                 | 40       | 1.939               | 1.939              | 0.001  |
| 1E+13                                 | 41       | 1.939               | 1.951              | 0.011  |
|                                       | Max      | 1.946               | 1.951              | 0.011  |
|                                       | Average  | 1.939               | 1.941              | 0.002  |
|                                       | Min      | 1.928               | 1.933              | -0.010 |
|                                       | Std Dev  | 0.005               | 0.005              | 0.006  |



| 41.8_SoftStart ClampVoltage/ |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Test Site                    |       |       |       |       |
| Tester                       |       |       |       |       |
| Test Number                  |       |       |       |       |
| Max Limit                    | 2.105 |       | V     |       |
| Min Limit                    | 1.725 |       | V     |       |
| n/cm <sup>2</sup>            | 0     | 1E+12 | 5E+12 | 1E+13 |
| LL                           | 1.725 | 1.725 | 1.725 | 1.725 |
| Min                          | 1.933 | 1.940 | 1.935 | 1.933 |
| Average                      | 1.941 | 1.942 | 1.942 | 1.940 |
| Max                          | 1.947 | 1.946 | 1.948 | 1.951 |
| UL                           | 2.105 | 2.105 | 2.105 | 2.105 |



## 6 Revision History

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

| <b>Changes from Revision * (July 2025) to Revision A (September 2025)</b> | <b>Page</b>       |
|---------------------------------------------------------------------------|-------------------|
| • Added -SEP and -SP QMLP throughout the publication.....                 | <a href="#">1</a> |

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