

# TPS7H4010-SEP Total Ionizing Dose (TID) Radiation Report



## ABSTRACT

This report discusses the results of the Total Ionizing Dose (TID) testing for the Texas Instruments 3.5-V to 32-V, 6-A synchronous step-down voltage converter TPS7H4010-SEP. The study was done to determine TID effects under low dose rate (LDR) and high dose rate (HDR) up to 30 krad(Si). The results show that all samples passed within the specified limits up to 30 krad(Si).

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## Trademarks

All trademarks are the property of their respective owners.

## 1 Device Information

### 1.1 Product Description

The TPS7H4010-SEP is a 3.5-V to 32-V, 6-A synchronous step-down voltage converter capable of driving up to 6 A of load current. The TPS7H4010-SEP provides exceptional efficiency and output accuracy in a very small solution size.

## 1.2 Device Details

Table 1-1 lists the device information used in the TID HDR and LDR characterization.

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

| TID HDR and LDR Details: 20 and 30 krad(Si) |                                                                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Package                                     | 30-pin WQFN (RNP)                                                                                                           |
| Quantity Tested                             | HDR and LDR:<br>22 bias and 5 unbiased units @ 20 krad(Si) levels;<br>5 bias and 5 unbiased units @ 30 krad(Si) levels      |
| HDR and LDR Radiation Facility              | Radiation Test Solutions, Colorado Springs,<br>Colorado                                                                     |
| HDR and LDR Dose Level                      | 20 krad(Si), 30 krad(Si)                                                                                                    |
| HDR Dose Rate                               | 59.16-rad(Si)/s ionizing radiation with increments                                                                          |
| LDR Dose Rate                               | 10-mrad(Si)/s ionizing radiation with increments                                                                            |
| HDR Radiation Source                        | Gamma rays provided by JLSA 81-24 Co60<br>source. Dosimetry performed by Air Ionization<br>Chamber (AIC) traceable to NIST. |
| LDR Radiation Source                        | Gamma rays provided by JLSA 81-22 or JLSA<br>81-23 Co60 LDR source. Dosimetry performed by<br>AIC traceable to NIST.        |
| Irradiation and Test Temperature            | Ambient, room temperature controlled to 24°C±6°C<br>per MIL-STD-883 and MIL-STD-750.                                        |



**Figure 1-1. TPS7H4010-SEP Devices Used in Exposure**

## 2 Total Dose Test Setup

### 2.1 Test Overview

The TPS7H4010-SEP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, Conditions A and D were used. For this test, the product was irradiated up to the target radiation level, and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). All devices remained functional passing all parametric test limits.

### 2.2 Test Description and Facilities

The TPS7H4010-SEP HDR and LDR exposures were performed on biased and unbiased devices in gamma rays provided by JLSA 81-24 Co60 source and by JLSA 81-22 or JLSA 81-23 Co60 LDR source, respectively, at *Radiation Test Solutions, Inc.* facility in Colorado Springs, Colorado. Dosimetry performed by Air Ionization Chamber (AIC) traceable to NIST. Radiation Test Solutions's dosimetry has been audited by DLA. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and returned to TI Dallas for a full post-radiation electrical evaluation using Texas Instruments Automated Test Equipment (ATE). ATE guard band test limits are set within VID electrical limits to ensure robust Cpk and test error margin based on qualification and characterization data. Post-radiation measurements were taken on the same test setup where initial, pre-exposure testing done, within 30 minutes of removing the devices from the dry ice container. The devices were allowed to reach room temperature prior to electrical post-radiation measurements.

## 2.3 Test Setup Details

The devices under HDR and LDR exposure were tested in two conditions, biased and unbiased, as described in the following sections.

### 2.3.1 Unbiased

For the unbiased HDR and LDR conditions, the exposure was performed with all pins grounded.

### 2.3.2 Biased

Figure 2-1 shows the diagram for HDR and LDR exposure with biased condition.

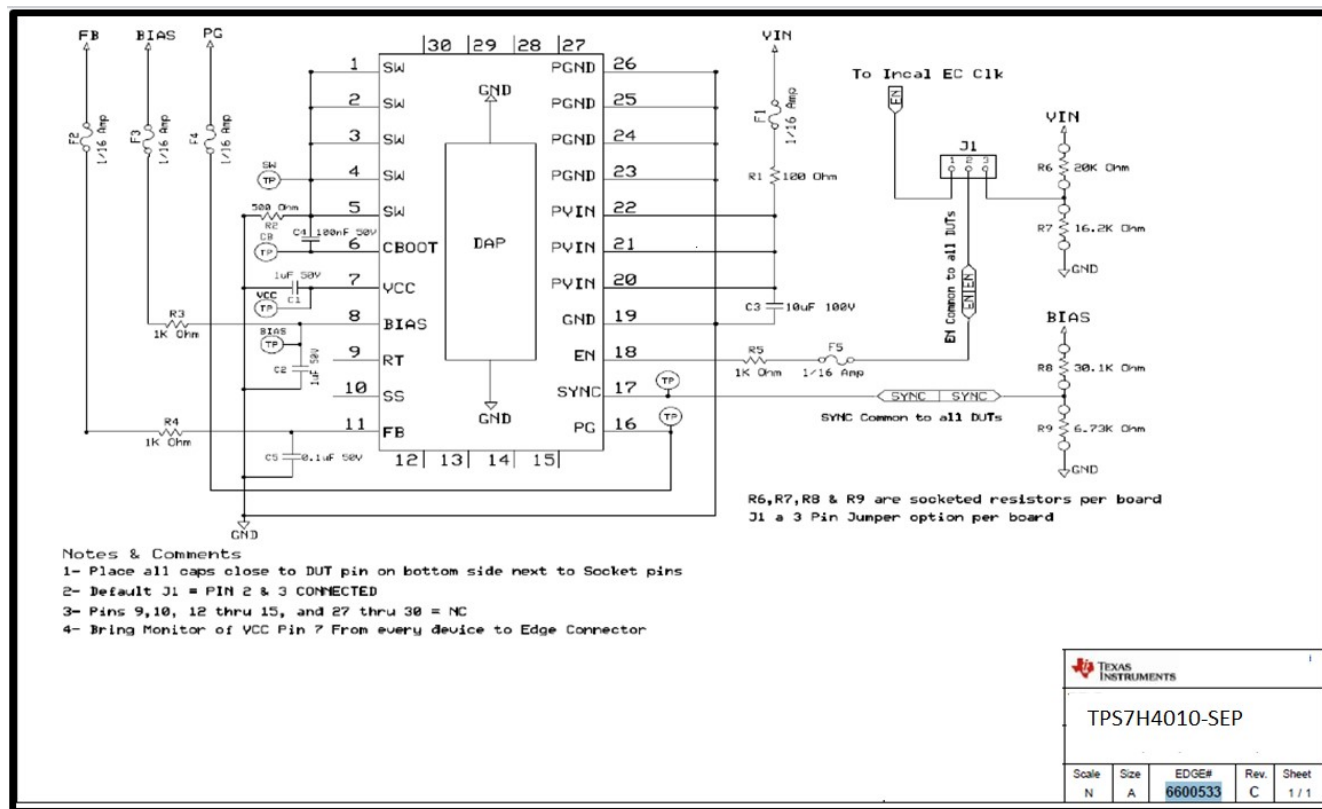


Figure 2-1. Bias Diagram Used in TID Exposure

## 2.4 Test Configuration and Condition

HDR and LDR devices were stressed at 20 krad(Si) and 30 krad(Si) for biased and unbiased conditions.

**Table 2-1. HDR  $\geq$  50–300 rad(Si)/s Biased Device Information (HDR)**

| Total Samples: 27                                                                      |                         |
|----------------------------------------------------------------------------------------|-------------------------|
| Exposure Levels:                                                                       |                         |
| 20 krad(Si) (22 samples)                                                               | 30 krad(Si) (5 samples) |
| 61, 62, 63, 64, 65, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83 | 89, 90, 91, 92, 93      |

**Table 2-2. HDR  $\geq$  50–300 rad(Si)/s Unbiased Device Information (HDR)**

| Total Samples: 10       |                         |
|-------------------------|-------------------------|
| Exposure Levels:        |                         |
| 20 krad(Si) (5 samples) | 30 krad(Si) (5 samples) |
| 84, 85, 86, 87, 88      | 94, 95, 96, 97, 98      |

**Table 2-3. LDR  $\leq$  10 mrad(Si)/s Biased Device Information (LDR)**

| Total Samples: 27                                                                  |                         |
|------------------------------------------------------------------------------------|-------------------------|
| Exposure Levels:                                                                   |                         |
| 20 krad(Si) (22 samples)                                                           | 30 krad(Si) (5 samples) |
| 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27 | 33, 34, 35, 36, 37      |

**Table 2-4. LDR  $\leq$  10 mrad(Si)/s Unbiased Device Information (LDR)**

| Total Samples: 10       |                         |
|-------------------------|-------------------------|
| Exposure Levels:        |                         |
| 20 krad(Si) (5 samples) | 30 krad(Si) (5 samples) |
| 1, 2, 3, 4, 5           | 28, 29, 30, 31, 32      |

## 3 TID Characterization Test Results

### 3.1 TID Characterization Summary Results

The parametric data for the TPS7H4010-SEP passes up to 30-krad(Si) HDR and LDR TID. The drift of VID electrical parameters through HDR and LDR were within the pre-radiation limits.

Overall, the TPS7H4010-SEP showed a strong degree of hardness to HDR and LDR TID irradiation up to 30 krad(Si) for both biased and unbiased exposure conditions. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each dose level for both biased and unbiased. The parameters that did show a greater degree of change between pre- and post-irradiation were still within the data sheet electrical specifications (see [Section 3.2](#) for Specification Compliance Matrix).

Please see [Appendix A](#) for HDR report up to 30 krad(Si).

Please see [Appendix B](#) for LDR report up to 30 krad(Si).

## 3.2 Specification Compliance Matrix

The TPS7H4010-SEP Specification Compliance Matrix is comprised of electrical, timing, and switching characteristics lists as shown in the following tables.

**Table 3-1. Electrical Characteristics**

| PARAMETER                        |                                                                 | TEST CONDITIONS                                                                    | TPS7H4010-SEP Data Sheet |       |       |      | Test#              |
|----------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|-------|-------|------|--------------------|
|                                  |                                                                 |                                                                                    | MIN                      | TYP   | MAX   | UNIT |                    |
| SUPPLY VOLTAGE (PVIN PINS)       |                                                                 |                                                                                    |                          |       |       |      |                    |
| PVIN                             | Operating input voltage                                         |                                                                                    | 3.5                      |       | 32    | V    |                    |
| I <sub>SD</sub>                  | Shutdown quiescent current; measured at PVIN pin <sup>(1)</sup> | V <sub>EN</sub> = AGND, T <sub>J</sub> = 25°C                                      |                          | 0.8   | 10    | μA   | 2.1, 2.2, 2.3, 2.4 |
| I <sub>Q_NONSW</sub>             | Operating quiescent current from PVIN (non-switching)           | V <sub>EN</sub> = 2 V, V <sub>FB</sub> = 1.5 V, V <sub>BIAS</sub> = 3.3 V external |                          | 0.6   | 12    | μA   | 25.5               |
| ENABLE (EN PIN)                  |                                                                 |                                                                                    |                          |       |       |      |                    |
| V <sub>EN_VCC_H</sub>            | Enable input high-level for VCC output                          | V <sub>EN</sub> rising                                                             |                          |       | 1.15  | V    | 30.1               |
| V <sub>EN_VCC_L</sub>            | Enable input low-level for VCC output                           | V <sub>EN</sub> falling                                                            | 0.3                      |       |       | V    | 30.2               |
| V <sub>EN_VOUT_H</sub>           | Enable input high-level for VOUT                                | V <sub>EN</sub> rising                                                             | 1.14                     | 1.196 | 1.25  | V    | 30.4               |
| V <sub>EN_VOUT_HYS</sub>         | Enable input hysteresis for VOUT                                | V <sub>EN</sub> falling hysteresis                                                 |                          | 100   |       | mV   | 30.6               |
| I <sub>LKG_EN</sub>              | Enable input leakage current                                    | V <sub>EN</sub> = 2 V                                                              |                          | 1.4   | 200   | nA   | 25.3               |
| INTERNAL LDO (VCC PIN, BIAS PIN) |                                                                 |                                                                                    |                          |       |       |      |                    |
| VCC                              | Internal VCC voltage                                            | PWM operation                                                                      |                          | 3.27  |       | V    | 12.6, 12.7, 12.8   |
|                                  |                                                                 | PFM operation                                                                      |                          | 3.1   |       | V    | 29.4, 29.5, 29.6   |
| V <sub>CC_UVLO</sub>             | Internal VCC undervoltage lockout                               | VCC rising                                                                         | 2.96                     | 3.14  | 3.27  | V    | 29.2               |
|                                  |                                                                 | VCC falling hysteresis                                                             |                          | 605   |       | mV   | 29.3               |
| V <sub>BIAS_ON</sub>             | Input changeover                                                | VBIAS rising                                                                       |                          | 3.09  | 3.25  | V    | 29.9               |
|                                  |                                                                 | VBIAS falling hysteresis                                                           |                          | 63    |       | mV   | 29.10              |
| I <sub>BIAS_NONSW</sub>          | Operating quiescent current from external VBIAS (non-switching) | V <sub>EN</sub> = 2 V, V <sub>FB</sub> = 1.5 V, V <sub>BIAS</sub> = 3.3 V external |                          | 21    | 50    | μA   | 29.16              |
| VOLTAGE REFERENCE (FB PIN)       |                                                                 |                                                                                    |                          |       |       |      |                    |
| V <sub>FB</sub>                  | Feedback voltage                                                | PWM mode                                                                           | 0.987                    | 1.006 | 1.017 | V    | 28.1, 28.3, 28.5   |
| I <sub>LKG_FB</sub>              | Input leakage current at FB pin                                 | V <sub>FB</sub> = 1 V                                                              |                          | 0.2   | 60    | nA   | 25.4               |
| HIGH SIDE DRIVER (CBOOT PIN)     |                                                                 |                                                                                    |                          |       |       |      |                    |
| V <sub>CBOOT_UVLO</sub>          | CBOOT - SW undervoltage lockout                                 |                                                                                    | 1.6                      | 2.2   | 2.7   | V    | 38.2               |
| CURRENT LIMITS AND HICCUP        |                                                                 |                                                                                    |                          |       |       |      |                    |
| I <sub>HS_LIMIT</sub>            | Short-circuit, high-side current limit <sup>(2)</sup>           |                                                                                    | 7.4                      | 8.7   | 9.85  | A    | 20.5               |
| I <sub>LS_LIMIT</sub>            | Low-side current limit <sup>(2)</sup>                           |                                                                                    | 5.8                      | 6.6   | 7.25  | A    | 22.5               |
| I <sub>NEG_LIMIT</sub>           | Negative current limit                                          |                                                                                    |                          | –6    |       | A    | 22.7               |
| V <sub>HICCUP</sub>              | Hiccup threshold on FB pin                                      |                                                                                    | 0.36                     | 0.4   | 0.44  | V    | 37.17, 37.18       |



**Table 3-1. Electrical Characteristics (continued)**

| PARAMETER                                         |                                                 | TEST CONDITIONS                                                          | TPS7H4010-SEP Data Sheet |      |      |      | Test#       |            |
|---------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------|--------------------------|------|------|------|-------------|------------|
|                                                   |                                                 |                                                                          | MIN                      | TYP  | MAX  | UNIT |             |            |
| I <sub>L_ZC</sub>                                 | Zero cross-current limit                        |                                                                          | 0.06                     |      |      | A    | 22.6        |            |
| SOFT START (SS/TRK PIN)                           |                                                 |                                                                          |                          |      |      |      |             |            |
| I <sub>SSC</sub>                                  | Soft-start charge current                       |                                                                          | 1.8                      | 2    | 2.2  | μA   | 25.6, 32.4  |            |
| R <sub>SSD</sub>                                  | Soft-start discharge resistance                 | UVLO, TSD, OCP, or EN = AGND                                             | 1                        |      |      | kΩ   | 32.3        |            |
| POWER GOOD (PGOOD PIN) and OVERVOLTAGE PROTECTION |                                                 |                                                                          |                          |      |      |      |             |            |
| V <sub>PGOOD_OV</sub>                             | Power-good overvoltage threshold                | % of FB voltage                                                          | 106%                     | 110% | 113% |      | 37.5, 37.6  |            |
| V <sub>PGOOD_UV</sub>                             | Power-good undervoltage threshold               | % of FB voltage                                                          | 86%                      | 90%  | 93%  |      | 37.8, 37.9  |            |
| V <sub>PGOOD_HYS</sub>                            | Power-good hysteresis                           | % of FB voltage                                                          | 1.2%                     |      |      |      | 37.7, 37.10 |            |
| V <sub>PGOOD_VALID</sub>                          | Minimum input voltage for proper PGOOD function | 50-μA pullup to PGOOD pin, V <sub>EN</sub> = AGND, T <sub>J</sub> = 25°C | 1.3                      |      |      | 2    | V           | 37.1       |
| R <sub>PGOOD</sub>                                | Power-good ON-resistance                        | VEN = 2.5 V                                                              | 40                       |      |      | 100  | Ω           | 37.2, 37.4 |
|                                                   |                                                 | VEN = AGND                                                               | 30                       |      |      | 90   |             | 37.3       |
| MOSFETS                                           |                                                 |                                                                          |                          |      |      |      |             |            |
| R <sub>DS_ON_HS</sub> <sup>(3)</sup>              | High-side MOSFET ON-resistance                  | IOUT = 1 A, VBIAS = VOUT = 3.3 V                                         | 53                       |      |      | 90   | mΩ          | 18.1       |
| R <sub>DS_ON_LS</sub> <sup>(3)</sup>              | Low-side MOSFET ON-resistance                   | IOUT = 1 A, VBIAS = VOUT = 3.3 V                                         | 31                       |      |      | 55   | mΩ          | 18.2       |

- (1) Shutdown current includes leakage current of the switching transistors.
- (2) This current limit was measured as the internal comparator trip point. Due to inherent delays in the current limit comparator and drivers, the peak current limit measured in closed loop with faster slew rate will be larger, and valley current limit will be lower.
- (3) Measured at pins.

**Table 3-2. Timing Characteristics**

| PARAMETER                                         |                                     | TEST CONDITIONS                                      | TPS7H4010-SEP Data Sheet |     |     |      | Test #     |
|---------------------------------------------------|-------------------------------------|------------------------------------------------------|--------------------------|-----|-----|------|------------|
|                                                   |                                     |                                                      | MIN                      | TYP | MAX | UNIT |            |
| CURRENT LIMITS AND HICCUP                         |                                     |                                                      |                          |     |     |      |            |
| t <sub>OC</sub>                                   | Overcurrent hiccup retry delay time |                                                      | 46                       |     |     | ms   | 32.2       |
| SOFT START (SS/TRK PIN)                           |                                     |                                                      |                          |     |     |      |            |
| t <sub>SS</sub>                                   | Internal soft-start time            | CSS = OPEN, from EN rising edge to PGOOD rising edge | 3.5                      | 6.3 |     | ms   | 32.1, 32.5 |
| POWER GOOD (PGOOD PIN) and OVERVOLTAGE PROTECTION |                                     |                                                      |                          |     |     |      |            |
| t <sub>PGOOD_RISE</sub>                           | PGOOD rising edge deglitch delay    |                                                      | 80                       | 140 | 200 | μs   | 37.15      |
| t <sub>PGOOD_FALL</sub>                           | PGOOD falling edge deglitch delay   |                                                      | 80                       | 140 | 200 | μs   | 37.16      |

**Table 3-3. Switching Characteristics**

| PARAMETER                     |                                              | TEST CONDITIONS       | TPS7H4010-SEP Data Sheet |      |      |      | Test #     |
|-------------------------------|----------------------------------------------|-----------------------|--------------------------|------|------|------|------------|
|                               |                                              |                       | MIN                      | TYP  | MAX  | UNIT |            |
| PWM LIMITS (SW PINS)          |                                              |                       |                          |      |      |      |            |
| t <sub>ON-MIN</sub>           | Minimum switch on-time                       |                       | 60                       | 82   | ns   | 36.2 |            |
| t <sub>OFF-MIN</sub>          | Minimum switch off-time                      |                       | 70                       | 120  | ns   | 36.5 |            |
| t <sub>ON-MAX</sub>           | Maximum switch on-time                       | HS timeout in dropout | 3                        | 6    | 9    | μs   | 36.7       |
| OSCILLATOR (RT and SYNC PINS) |                                              |                       |                          |      |      |      |            |
| f <sub>OSC</sub>              | Internal oscillator frequency                | RT = Open             | 440                      | 500  | 560  | kHz  | 36.1       |
| f <sub>ADJ</sub>              | Minimum adjustable frequency by RT or SYNC   | RT = 115 kΩ, 0.1%     | 315                      | 350  | 385  | kHz  | 36.9       |
|                               | Maximum adjustable frequency by RT or SYNC   | RT = 17.4 kΩ, 0.1%    | 1980                     | 2200 | 2420 |      | 36.3, 36.4 |
| V <sub>SYNC_HIGH</sub>        | Sync input high-level threshold              |                       |                          |      | 2    | V    | 34.1       |
| V <sub>SYNC_LOW</sub>         | Sync input low-level threshold               |                       | 0.4                      |      |      | V    | 34.2       |
| V <sub>MODE_HIGH</sub>        | Mode input high-level threshold for FPWM     |                       |                          | 0.42 |      | V    | 34.7       |
| V <sub>MODE_LOW</sub>         | Mode input low-level threshold for AUTO mode |                       |                          | 0.4  |      | V    | 34.8       |
| t <sub>SYNC_MIN</sub>         | Sync input minimum ON and OFF time           |                       |                          | 80   |      | ns   | 34.5, 34.6 |

## 4 Applicable and Reference Documents

### 4.1 Applicable Documents

- [\*TPS7H4010-SEP Radiation Hardened 3.5-V to 32-V, 6-A Synchronous Step-Down Voltage Converter in Space Enhanced Plastic data sheet\*](#)
- [\*TPS7H4010-SEP Production Flow and Reliability Report\*](#)
- [\*TPS7H4010-SEP EVM User's Guide\*](#)

### 4.2 Reference Documents

Texas Instruments total ionizing dose radiation (total dose) test procedure follows the standards put forth in MIL-STD-883 TM 1019. The document can be found at the DLA website.

## **A Appendix A: HDR TID Report**

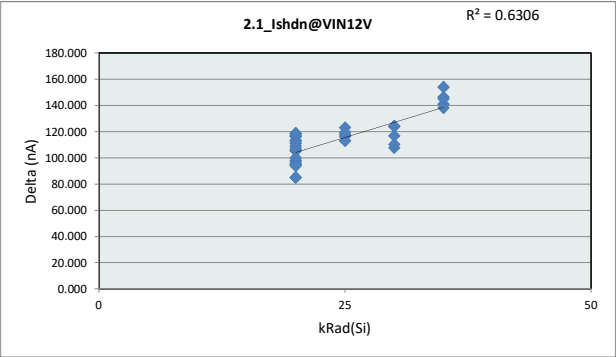
This appendix contains the HDR TID report data.

# HDR TID Report

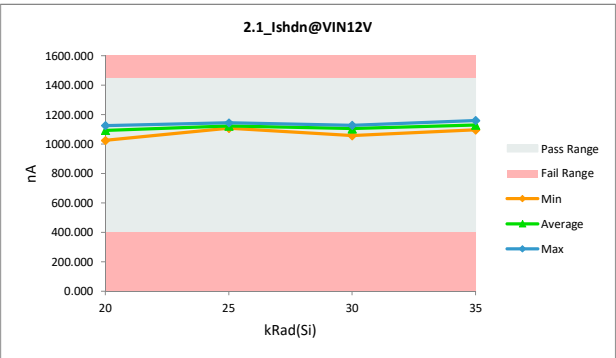
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 2.1_Ishdn@VIN12V |          |          |          |         |
|------------------|----------|----------|----------|---------|
| Test Site        |          |          |          |         |
| Tester           |          |          |          |         |
| Test Number      |          |          |          |         |
| Unit             | nA       | nA       |          |         |
| Max Limit        | 1445     | 1445     |          |         |
| Min Limit        | 400      | 400      |          |         |
| kRad(Si)         | Serial # | Pre_HDR  | Post_HDR | Delta   |
| 20               | 61       | 1007.360 | 1120.760 | 113.400 |
| 20               | 62       | 908.500  | 1024.920 | 116.420 |
| 20               | 63       | 942.080  | 1047.330 | 105.250 |
| 20               | 64       | 1010.950 | 1116.600 | 105.650 |
| 20               | 65       | 1015.130 | 1100.180 | 85.050  |
| 20               | 67       | 988.480  | 1097.720 | 109.240 |
| 20               | 68       | 1012.430 | 1108.040 | 95.610  |
| 20               | 69       | 1008.900 | 1103.890 | 94.990  |
| 20               | 70       | 982.810  | 1080.980 | 98.170  |
| 20               | 71       | 988.920  | 1105.270 | 116.350 |
| 20               | 72       | 1014.630 | 1125.800 | 111.170 |
| 20               | 73       | 1029.740 | 1124.790 | 95.050  |
| 20               | 74       | 967.170  | 1079.690 | 112.520 |
| 20               | 75       | 992.880  | 1098.820 | 105.940 |
| 20               | 76       | 944.570  | 1063.380 | 118.810 |
| 20               | 77       | 924.680  | 1032.190 | 107.510 |
| 20               | 78       | 997.320  | 1114.690 | 117.370 |
| 20               | 79       | 1008.020 | 1105.270 | 97.250  |
| 20               | 80       | 1011.330 | 1111.440 | 100.110 |
| 20               | 81       | 1009.440 | 1103.390 | 93.950  |
| 20               | 82       | 982.280  | 1100.680 | 118.400 |
| 20               | 83       | 1003.520 | 1088.690 | 85.170  |
| 25               | 84       | 983.820  | 1107.010 | 123.190 |
| 25               | 85       | 993.580  | 1111.290 | 117.710 |
| 25               | 86       | 1028.100 | 1144.490 | 116.390 |
| 25               | 87       | 1020.330 | 1133.290 | 112.960 |
| 25               | 88       | 1003.360 | 1122.770 | 119.410 |
| 30               | 89       | 932.670  | 1056.710 | 124.040 |
| 30               | 90       | 999.490  | 1123.750 | 124.260 |
| 30               | 91       | 1019.380 | 1127.050 | 107.670 |
| 30               | 92       | 980.040  | 1096.870 | 116.830 |
| 30               | 93       | 1008.620 | 1119.000 | 110.380 |
| 35               | 94       | 1010.290 | 1151.320 | 141.030 |
| 35               | 95       | 942.080  | 1096.150 | 154.070 |
| 35               | 96       | 957.410  | 1103.860 | 146.450 |
| 35               | 97       | 1014.760 | 1159.820 | 145.060 |
| 35               | 98       | 995.620  | 1133.790 | 138.170 |
| Max              |          | 1029.740 | 1159.820 | 154.070 |
| Average          |          | 990.289  | 1103.829 | 113.541 |
| Min              |          | 908.500  | 1024.920 | 85.050  |
| Std Dev          |          | 30.470   | 29.770   | 16.277  |



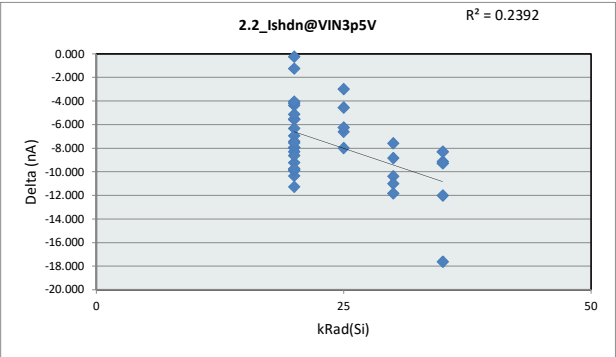
| 2.1_Ishdn@VIN12V |          |          |          |          |
|------------------|----------|----------|----------|----------|
| Test Site        |          |          |          |          |
| Tester           |          |          |          |          |
| Test Number      |          |          |          |          |
| Max Limit        | 1445     | nA       |          |          |
| Min Limit        | 400      | nA       |          |          |
| kRad(Si)         | 20       | 25       | 30       | 35       |
| LL               | 400.000  | 400.000  | 400.000  | 400.000  |
| Min              | 1024.920 | 1107.010 | 1056.710 | 1096.150 |
| Average          | 1093.387 | 1123.770 | 1104.676 | 1128.988 |
| Max              | 1125.800 | 1144.490 | 1127.050 | 1159.820 |
| UL               | 1445.000 | 1445.000 | 1445.000 | 1445.000 |



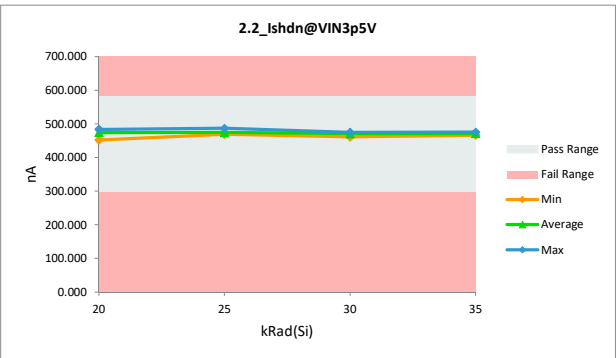
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 2.2_Ishdn@VIN3p5V |          |         |          |         |
|-------------------|----------|---------|----------|---------|
| Test Site         |          |         |          |         |
| Tester            |          |         |          |         |
| Test Number       |          |         |          |         |
| Unit              | nA       | nA      |          |         |
| Max Limit         | 580      | 580     |          |         |
| Min Limit         | 295      | 295     |          |         |
| kRad(Si)          | Serial # | Pre_HDR | Post_HDR | Delta   |
| 20                | 61       | 490.410 | 482.450  | -7.960  |
| 20                | 62       | 478.610 | 474.230  | -4.380  |
| 20                | 63       | 475.990 | 470.420  | -5.570  |
| 20                | 64       | 489.780 | 479.430  | -10.350 |
| 20                | 65       | 461.270 | 452.040  | -9.230  |
| 20                | 67       | 486.880 | 478.920  | -7.960  |
| 20                | 68       | 472.910 | 472.660  | -0.250  |
| 20                | 69       | 480.370 | 472.060  | -8.310  |
| 20                | 70       | 478.100 | 472.560  | -5.540  |
| 20                | 71       | 487.610 | 483.420  | -4.190  |
| 20                | 72       | 489.650 | 478.360  | -11.290 |
| 20                | 73       | 474.040 | 468.910  | -5.130  |
| 20                | 74       | 481.570 | 475.240  | -6.330  |
| 20                | 75       | 482.510 | 475.550  | -6.960  |
| 20                | 76       | 481.600 | 480.340  | -1.260  |
| 20                | 77       | 479.520 | 472.090  | -7.430  |
| 20                | 78       | 491.130 | 483.580  | -7.550  |
| 20                | 79       | 465.360 | 455.540  | -9.820  |
| 20                | 80       | 478.450 | 474.390  | -4.060  |
| 20                | 81       | 477.030 | 467.120  | -9.910  |
| 20                | 82       | 491.100 | 481.350  | -9.750  |
| 20                | 83       | 479.020 | 470.390  | -8.630  |
| 25                | 84       | 476.720 | 470.110  | -6.610  |
| 25                | 85       | 484.240 | 477.980  | -6.260  |
| 25                | 86       | 472.600 | 469.610  | -2.990  |
| 25                | 87       | 476.530 | 468.540  | -7.990  |
| 25                | 88       | 491.350 | 486.790  | -4.560  |
| 30                | 89       | 481.470 | 471.080  | -10.390 |
| 30                | 90       | 485.340 | 474.330  | -11.010 |
| 30                | 91       | 478.580 | 470.990  | -7.590  |
| 30                | 92       | 483.580 | 474.740  | -8.840  |
| 30                | 93       | 472.750 | 460.920  | -11.830 |
| 35                | 94       | 479.490 | 470.360  | -9.130  |
| 35                | 95       | 492.050 | 474.420  | -17.630 |
| 35                | 96       | 481.060 | 469.040  | -12.020 |
| 35                | 97       | 475.680 | 466.400  | -9.280  |
| 35                | 98       | 483.640 | 475.330  | -8.310  |
| Max               |          | 492.050 | 486.790  | -0.250  |
| Average           |          | 480.756 | 473.019  | -7.738  |
| Min               |          | 461.270 | 452.040  | -17.630 |
| Std Dev           |          | 7.121   | 7.171    | 3.262   |



| 2.2_Ishdn@VIN3p5V |         |         |         |         |
|-------------------|---------|---------|---------|---------|
| Test Site         |         |         |         |         |
| Tester            |         |         |         |         |
| Test Number       |         |         |         |         |
| Max Limit         | 580     | nA      |         |         |
| Min Limit         | 295     | nA      |         |         |
| kRad(Si)          | 20      | 25      | 30      | 35      |
| LL                | 295.000 | 295.000 | 295.000 | 295.000 |
| Min               | 452.040 | 468.540 | 460.920 | 466.400 |
| Average           | 473.684 | 474.606 | 470.412 | 471.110 |
| Max               | 483.580 | 486.790 | 474.740 | 475.330 |
| UL                | 580.000 | 580.000 | 580.000 | 580.000 |

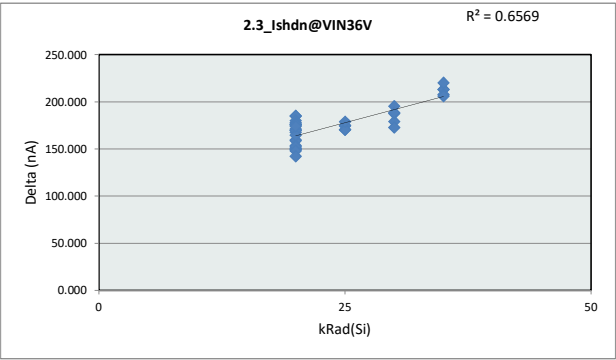


# HDR TID Report

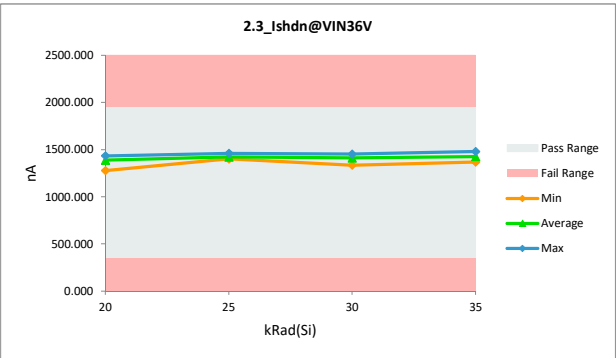
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 2.3_Ishdn@VIN36V |          |          |          |         |
|------------------|----------|----------|----------|---------|
| Test Site        |          |          |          |         |
| Tester           |          |          |          |         |
| Test Number      |          |          |          |         |
| Unit             | nA       | nA       |          |         |
| Max Limit        | 1940     | 1940     |          |         |
| Min Limit        | 345      | 345      |          |         |
| kRad(Si)         | Serial # | Pre_HDR  | Post_HDR | Delta   |
| 20               | 61       | 1252.980 | 1428.030 | 175.050 |
| 20               | 62       | 1109.590 | 1277.180 | 167.590 |
| 20               | 63       | 1146.030 | 1317.090 | 171.060 |
| 20               | 64       | 1249.200 | 1419.030 | 169.830 |
| 20               | 65       | 1258.640 | 1408.740 | 150.100 |
| 20               | 67       | 1211.910 | 1396.720 | 184.810 |
| 20               | 68       | 1260.940 | 1410.250 | 149.310 |
| 20               | 69       | 1254.620 | 1414.090 | 159.470 |
| 20               | 70       | 1224.750 | 1383.410 | 158.660 |
| 20               | 71       | 1222.540 | 1407.320 | 184.780 |
| 20               | 72       | 1254.020 | 1433.980 | 179.960 |
| 20               | 73       | 1274.260 | 1427.750 | 153.490 |
| 20               | 74       | 1189.150 | 1366.910 | 177.760 |
| 20               | 75       | 1217.950 | 1387.620 | 169.670 |
| 20               | 76       | 1164.890 | 1340.980 | 176.090 |
| 20               | 77       | 1128.850 | 1293.390 | 164.540 |
| 20               | 78       | 1235.570 | 1411.640 | 176.070 |
| 20               | 79       | 1263.370 | 1414.250 | 150.880 |
| 20               | 80       | 1253.200 | 1405.560 | 152.360 |
| 20               | 81       | 1257.860 | 1405.850 | 147.990 |
| 20               | 82       | 1218.040 | 1391.870 | 173.830 |
| 20               | 83       | 1251.440 | 1393.570 | 142.130 |
| 25               | 84       | 1226.230 | 1400.430 | 174.200 |
| 25               | 85       | 1228.340 | 1403.300 | 174.960 |
| 25               | 86       | 1290.460 | 1460.670 | 170.210 |
| 25               | 87       | 1262.260 | 1432.600 | 170.340 |
| 25               | 88       | 1242.030 | 1420.890 | 178.860 |
| 30               | 89       | 1146.600 | 1334.090 | 187.490 |
| 30               | 90       | 1249.640 | 1444.970 | 195.330 |
| 30               | 91       | 1274.950 | 1453.910 | 178.960 |
| 30               | 92       | 1209.800 | 1398.130 | 188.330 |
| 30               | 93       | 1257.890 | 1430.460 | 172.570 |
| 35               | 94       | 1250.520 | 1463.500 | 212.980 |
| 35               | 95       | 1154.660 | 1367.760 | 213.100 |
| 35               | 96       | 1180.280 | 1387.840 | 207.560 |
| 35               | 97       | 1259.710 | 1479.840 | 220.130 |
| 35               | 98       | 1230.540 | 1436.560 | 206.020 |
| Max              |          | 1290.460 | 1479.840 | 220.130 |
| Average          |          | 1226.046 | 1401.356 | 175.310 |
| Min              |          | 1109.590 | 1277.180 | 142.130 |
| Std Dev          |          | 44.535   | 44.290   | 19.290  |



| 2.3_Ishdn@VIN36V |          |          |          |          |
|------------------|----------|----------|----------|----------|
| Test Site        |          |          |          |          |
| Tester           |          |          |          |          |
| Test Number      |          |          |          |          |
| Max Limit        | 1940     | nA       |          |          |
| Min Limit        | 345      | nA       |          |          |
| kRad(Si)         | 20       | 25       | 30       | 35       |
| LL               | 345.000  | 345.000  | 345.000  | 345.000  |
| Min              | 1277.180 | 1400.430 | 1334.090 | 1367.760 |
| Average          | 1387.965 | 1423.578 | 1412.312 | 1427.100 |
| Max              | 1433.980 | 1460.670 | 1453.910 | 1479.840 |
| UL               | 1940.000 | 1940.000 | 1940.000 | 1940.000 |

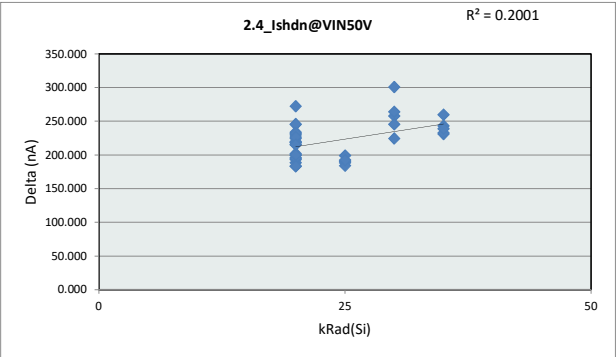


# HDR TID Report

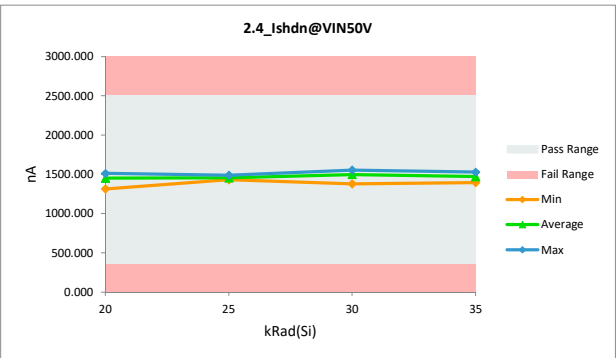
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 2.4_Ishdn@VIN50V |          |          |          |         |
|------------------|----------|----------|----------|---------|
| Test Site        |          |          |          |         |
| Tester           |          |          |          |         |
| Test Number      |          |          |          |         |
| Unit             | nA       | nA       |          |         |
| Max Limit        | 2500     | 2500     |          |         |
| Min Limit        | 345      | 345      |          |         |
| kRad(Si)         | Serial # | Pre_HDR  | Post_HDR | Delta   |
| 20               | 61       | 1264.490 | 1482.700 | 218.210 |
| 20               | 62       | 1117.960 | 1313.570 | 195.610 |
| 20               | 63       | 1155.930 | 1344.320 | 188.390 |
| 20               | 64       | 1265.210 | 1510.410 | 245.200 |
| 20               | 65       | 1269.140 | 1452.360 | 183.220 |
| 20               | 67       | 1227.440 | 1445.700 | 218.260 |
| 20               | 68       | 1270.960 | 1472.780 | 201.820 |
| 20               | 69       | 1270.230 | 1499.960 | 229.730 |
| 20               | 70       | 1239.410 | 1459.330 | 219.920 |
| 20               | 71       | 1237.970 | 1471.850 | 233.880 |
| 20               | 72       | 1271.080 | 1495.490 | 224.410 |
| 20               | 73       | 1289.070 | 1482.310 | 193.240 |
| 20               | 74       | 1201.530 | 1400.950 | 199.420 |
| 20               | 75       | 1231.310 | 1447.090 | 215.780 |
| 20               | 76       | 1180.900 | 1453.030 | 272.130 |
| 20               | 77       | 1138.490 | 1333.710 | 195.220 |
| 20               | 78       | 1249.780 | 1495.350 | 245.570 |
| 20               | 79       | 1276.390 | 1459.670 | 183.280 |
| 20               | 80       | 1273.910 | 1505.990 | 232.080 |
| 20               | 81       | 1269.860 | 1469.860 | 200.000 |
| 20               | 82       | 1229.280 | 1455.480 | 226.200 |
| 20               | 83       | 1265.810 | 1480.790 | 214.980 |
| 25               | 84       | 1239.840 | 1438.860 | 199.020 |
| 25               | 85       | 1240.110 | 1430.440 | 190.330 |
| 25               | 86       | 1300.350 | 1488.390 | 188.040 |
| 25               | 87       | 1277.640 | 1461.400 | 183.760 |
| 25               | 88       | 1257.930 | 1450.140 | 192.210 |
| 30               | 89       | 1152.700 | 1377.170 | 224.470 |
| 30               | 90       | 1258.200 | 1515.750 | 257.550 |
| 30               | 91       | 1290.020 | 1554.020 | 264.000 |
| 30               | 92       | 1223.230 | 1523.810 | 300.580 |
| 30               | 93       | 1270.940 | 1516.340 | 245.400 |
| 35               | 94       | 1267.970 | 1527.700 | 259.730 |
| 35               | 95       | 1164.050 | 1395.000 | 230.950 |
| 35               | 96       | 1198.010 | 1430.480 | 232.470 |
| 35               | 97       | 1280.150 | 1523.220 | 243.070 |
| 35               | 98       | 1243.970 | 1482.720 | 238.750 |
| Max              |          | 1300.350 | 1554.020 | 300.580 |
| Average          |          | 1239.494 | 1460.761 | 221.267 |
| Min              |          | 1117.960 | 1313.570 | 183.220 |
| Std Dev          |          | 45.963   | 54.726   | 28.351  |



| 2.4_Ishdn@VIN50V |          |          |          |          |
|------------------|----------|----------|----------|----------|
| Test Site        |          |          |          |          |
| Tester           |          |          |          |          |
| Test Number      |          |          |          |          |
| Max Limit        | 2500     | nA       |          |          |
| Min Limit        | 345      | nA       |          |          |
| kRad(Si)         | 20       | 25       | 30       | 35       |
| LL               | 345.000  | 345.000  | 345.000  | 345.000  |
| Min              | 1313.570 | 1430.440 | 1377.170 | 1395.000 |
| Average          | 1451.486 | 1453.846 | 1497.418 | 1471.824 |
| Max              | 1510.410 | 1488.390 | 1554.020 | 1527.700 |
| UL               | 2500.000 | 2500.000 | 2500.000 | 2500.000 |

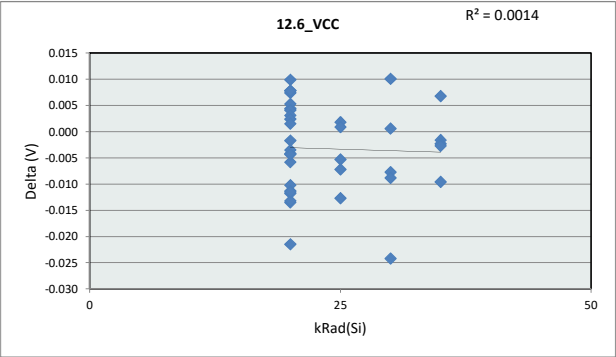




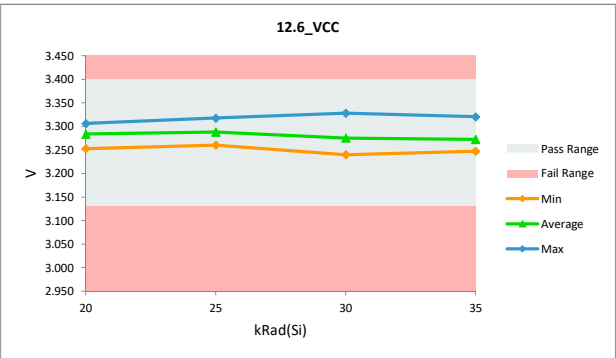
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 12.6_VCC    |          |         |          |        |
|-------------|----------|---------|----------|--------|
| Test Site   |          |         |          |        |
| Tester      |          |         |          |        |
| Test Number |          |         |          |        |
| Unit        | V        | V       |          |        |
| Max Limit   | 3.4      | 3.4     |          |        |
| Min Limit   | 3.13     | 3.13    |          |        |
| kRad(Si)    | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20          | 61       | 3.273   | 3.278    | 0.004  |
| 20          | 62       | 3.301   | 3.291    | -0.010 |
| 20          | 63       | 3.278   | 3.286    | 0.008  |
| 20          | 64       | 3.312   | 3.306    | -0.006 |
| 20          | 65       | 3.267   | 3.263    | -0.004 |
| 20          | 67       | 3.272   | 3.268    | -0.004 |
| 20          | 68       | 3.317   | 3.306    | -0.011 |
| 20          | 69       | 3.285   | 3.291    | 0.005  |
| 20          | 70       | 3.269   | 3.273    | 0.004  |
| 20          | 71       | 3.262   | 3.265    | 0.003  |
| 20          | 72       | 3.293   | 3.303    | 0.010  |
| 20          | 73       | 3.287   | 3.289    | 0.002  |
| 20          | 74       | 3.300   | 3.279    | -0.021 |
| 20          | 75       | 3.288   | 3.274    | -0.013 |
| 20          | 76       | 3.304   | 3.300    | -0.004 |
| 20          | 77       | 3.255   | 3.253    | -0.002 |
| 20          | 78       | 3.300   | 3.301    | 0.002  |
| 20          | 79       | 3.282   | 3.271    | -0.012 |
| 20          | 80       | 3.272   | 3.279    | 0.007  |
| 20          | 81       | 3.279   | 3.266    | -0.013 |
| 20          | 82       | 3.288   | 3.296    | 0.008  |
| 20          | 83       | 3.315   | 3.303    | -0.011 |
| 25          | 84       | 3.325   | 3.318    | -0.007 |
| 25          | 85       | 3.273   | 3.260    | -0.013 |
| 25          | 86       | 3.279   | 3.280    | 0.002  |
| 25          | 87       | 3.313   | 3.314    | 0.001  |
| 25          | 88       | 3.272   | 3.267    | -0.005 |
| 30          | 89       | 3.240   | 3.240    | 0.001  |
| 30          | 90       | 3.303   | 3.279    | -0.024 |
| 30          | 91       | 3.318   | 3.328    | 0.010  |
| 30          | 92       | 3.259   | 3.251    | -0.008 |
| 30          | 93       | 3.287   | 3.278    | -0.009 |
| 35          | 94       | 3.249   | 3.247    | -0.002 |
| 35          | 95       | 3.257   | 3.255    | -0.002 |
| 35          | 96       | 3.252   | 3.249    | -0.003 |
| 35          | 97       | 3.314   | 3.320    | 0.007  |
| 35          | 98       | 3.300   | 3.291    | -0.010 |
|             | Max      | 3.325   | 3.328    | 0.010  |
|             | Average  | 3.285   | 3.282    | -0.003 |
|             | Min      | 3.240   | 3.240    | -0.024 |
|             | Std Dev  | 0.022   | 0.022    | 0.008  |



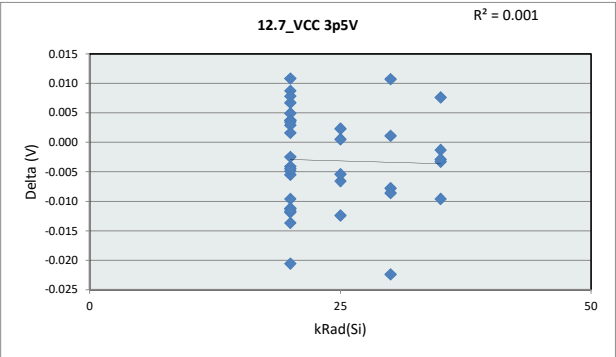
| 12.6_VCC    |       |       |       |       |
|-------------|-------|-------|-------|-------|
| Test Site   |       |       |       |       |
| Tester      |       |       |       |       |
| Test Number |       |       |       |       |
| Max Limit   | 3.4   | V     |       |       |
| Min Limit   | 3.13  | V     |       |       |
| kRad(Si)    | 20    | 25    | 30    | 35    |
| LL          | 3.130 | 3.130 | 3.130 | 3.130 |
| Min         | 3.253 | 3.260 | 3.240 | 3.247 |
| Average     | 3.284 | 3.288 | 3.275 | 3.272 |
| Max         | 3.306 | 3.318 | 3.328 | 3.320 |
| UL          | 3.400 | 3.400 | 3.400 | 3.400 |



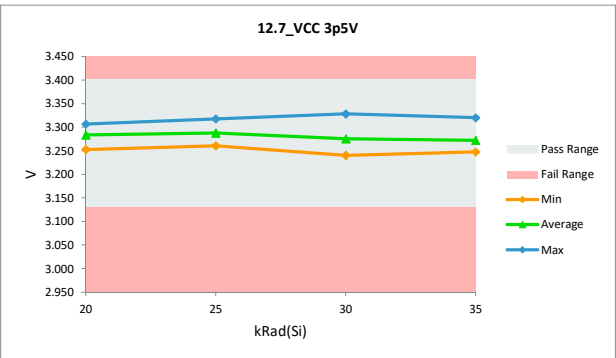
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 12.7_VCC 3p5V |          |         |          |        |
|---------------|----------|---------|----------|--------|
| Test Site     |          |         |          |        |
| Tester        |          |         |          |        |
| Test Number   |          |         |          |        |
| Unit          | V        | V       |          |        |
| Max Limit     | 3.4      | 3.4     |          |        |
| Min Limit     | 3.13     | 3.13    |          |        |
| kRad(Si)      | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20            | 61       | 3.273   | 3.277    | 0.004  |
| 20            | 62       | 3.300   | 3.291    | -0.010 |
| 20            | 63       | 3.277   | 3.286    | 0.009  |
| 20            | 64       | 3.312   | 3.306    | -0.005 |
| 20            | 65       | 3.267   | 3.263    | -0.005 |
| 20            | 67       | 3.272   | 3.268    | -0.004 |
| 20            | 68       | 3.317   | 3.305    | -0.012 |
| 20            | 69       | 3.285   | 3.290    | 0.005  |
| 20            | 70       | 3.270   | 3.273    | 0.004  |
| 20            | 71       | 3.262   | 3.265    | 0.003  |
| 20            | 72       | 3.293   | 3.303    | 0.011  |
| 20            | 73       | 3.287   | 3.290    | 0.003  |
| 20            | 74       | 3.300   | 3.279    | -0.021 |
| 20            | 75       | 3.288   | 3.274    | -0.014 |
| 20            | 76       | 3.304   | 3.300    | -0.004 |
| 20            | 77       | 3.255   | 3.253    | -0.003 |
| 20            | 78       | 3.300   | 3.301    | 0.002  |
| 20            | 79       | 3.282   | 3.271    | -0.011 |
| 20            | 80       | 3.272   | 3.279    | 0.007  |
| 20            | 81       | 3.277   | 3.266    | -0.011 |
| 20            | 82       | 3.288   | 3.296    | 0.008  |
| 20            | 83       | 3.315   | 3.303    | -0.012 |
| 25            | 84       | 3.324   | 3.318    | -0.007 |
| 25            | 85       | 3.273   | 3.261    | -0.012 |
| 25            | 86       | 3.278   | 3.280    | 0.002  |
| 25            | 87       | 3.313   | 3.314    | 0.001  |
| 25            | 88       | 3.272   | 3.266    | -0.005 |
| 30            | 89       | 3.239   | 3.240    | 0.001  |
| 30            | 90       | 3.303   | 3.280    | -0.022 |
| 30            | 91       | 3.317   | 3.328    | 0.011  |
| 30            | 92       | 3.259   | 3.251    | -0.008 |
| 30            | 93       | 3.287   | 3.278    | -0.009 |
| 35            | 94       | 3.249   | 3.247    | -0.001 |
| 35            | 95       | 3.257   | 3.254    | -0.003 |
| 35            | 96       | 3.252   | 3.249    | -0.003 |
| 35            | 97       | 3.312   | 3.320    | 0.008  |
| 35            | 98       | 3.300   | 3.291    | -0.010 |
| Max           |          | 3.324   | 3.328    | 0.011  |
| Average       |          | 3.285   | 3.282    | -0.003 |
| Min           |          | 3.239   | 3.240    | -0.022 |
| Std Dev       |          | 0.022   | 0.022    | 0.008  |



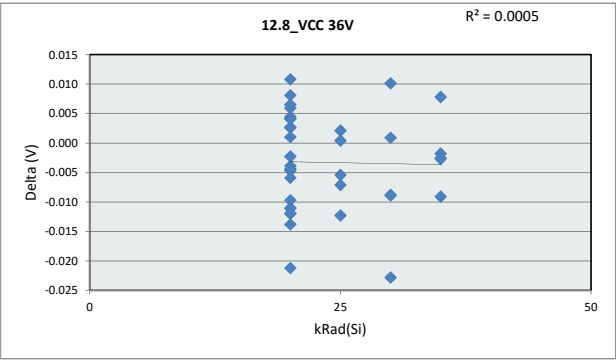
| 12.7_VCC 3p5V |       |       |       |       |
|---------------|-------|-------|-------|-------|
| Test Site     |       |       |       |       |
| Tester        |       |       |       |       |
| Test Number   |       |       |       |       |
| Max Limit     | 3.4   | V     |       |       |
| Min Limit     | 3.13  | V     |       |       |
| kRad(Si)      | 20    | 25    | 30    | 35    |
| LL            | 3.130 | 3.130 | 3.130 | 3.130 |
| Min           | 3.253 | 3.261 | 3.240 | 3.247 |
| Average       | 3.284 | 3.288 | 3.276 | 3.272 |
| Max           | 3.306 | 3.318 | 3.328 | 3.320 |
| UL            | 3.400 | 3.400 | 3.400 | 3.400 |



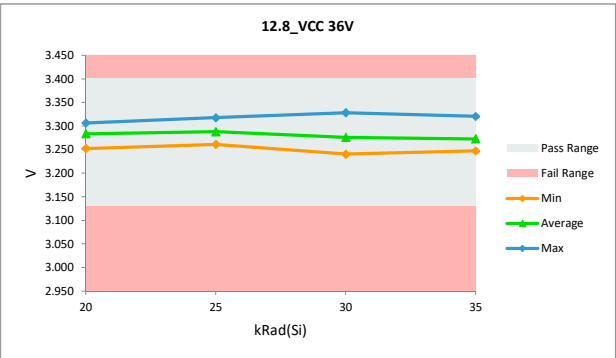
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 12.8_VCC 36V |          |         |          |        |
|--------------|----------|---------|----------|--------|
| Test Site    |          |         |          |        |
| Tester       |          |         |          |        |
| Test Number  |          |         |          |        |
| Unit         | V        | V       |          |        |
| Max Limit    | 3.4      | 3.4     |          |        |
| Min Limit    | 3.13     | 3.13    |          |        |
| kRad(Si)     | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20           | 61       | 3.273   | 3.277    | 0.004  |
| 20           | 62       | 3.301   | 3.291    | -0.010 |
| 20           | 63       | 3.277   | 3.285    | 0.008  |
| 20           | 64       | 3.313   | 3.307    | -0.006 |
| 20           | 65       | 3.267   | 3.263    | -0.005 |
| 20           | 67       | 3.272   | 3.268    | -0.004 |
| 20           | 68       | 3.317   | 3.306    | -0.011 |
| 20           | 69       | 3.286   | 3.290    | 0.004  |
| 20           | 70       | 3.269   | 3.273    | 0.004  |
| 20           | 71       | 3.262   | 3.265    | 0.003  |
| 20           | 72       | 3.293   | 3.303    | 0.011  |
| 20           | 73       | 3.287   | 3.290    | 0.003  |
| 20           | 74       | 3.300   | 3.279    | -0.021 |
| 20           | 75       | 3.288   | 3.274    | -0.014 |
| 20           | 76       | 3.304   | 3.300    | -0.004 |
| 20           | 77       | 3.255   | 3.252    | -0.002 |
| 20           | 78       | 3.300   | 3.301    | 0.001  |
| 20           | 79       | 3.282   | 3.271    | -0.011 |
| 20           | 80       | 3.272   | 3.278    | 0.006  |
| 20           | 81       | 3.277   | 3.265    | -0.012 |
| 20           | 82       | 3.289   | 3.296    | 0.007  |
| 20           | 83       | 3.315   | 3.303    | -0.012 |
| 25           | 84       | 3.325   | 3.318    | -0.007 |
| 25           | 85       | 3.273   | 3.261    | -0.012 |
| 25           | 86       | 3.278   | 3.280    | 0.002  |
| 25           | 87       | 3.313   | 3.314    | 0.000  |
| 25           | 88       | 3.272   | 3.266    | -0.005 |
| 30           | 89       | 3.240   | 3.240    | 0.001  |
| 30           | 90       | 3.303   | 3.281    | -0.023 |
| 30           | 91       | 3.318   | 3.328    | 0.010  |
| 30           | 92       | 3.261   | 3.252    | -0.009 |
| 30           | 93       | 3.287   | 3.279    | -0.009 |
| 35           | 94       | 3.249   | 3.247    | -0.002 |
| 35           | 95       | 3.257   | 3.255    | -0.003 |
| 35           | 96       | 3.253   | 3.250    | -0.003 |
| 35           | 97       | 3.313   | 3.321    | 0.008  |
| 35           | 98       | 3.300   | 3.291    | -0.009 |
|              | Max      | 3.325   | 3.328    | 0.011  |
|              | Average  | 3.285   | 3.282    | -0.003 |
|              | Min      | 3.240   | 3.240    | -0.023 |
|              | Std Dev  | 0.022   | 0.022    | 0.008  |



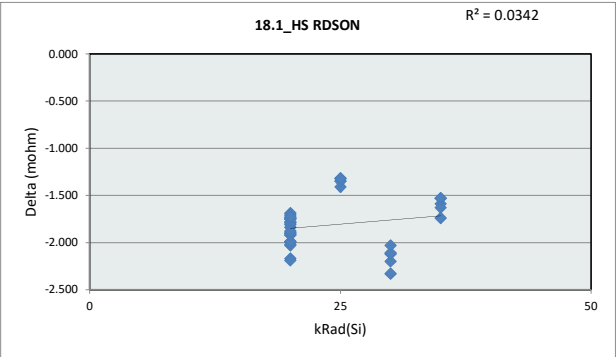
| 12.8_VCC 36V |       |       |       |       |
|--------------|-------|-------|-------|-------|
| Test Site    |       |       |       |       |
| Tester       |       |       |       |       |
| Test Number  |       |       |       |       |
| Max Limit    | 3.4   | V     |       |       |
| Min Limit    | 3.13  | V     |       |       |
| kRad(Si)     | 20    | 25    | 30    | 35    |
| LL           | 3.130 | 3.130 | 3.130 | 3.130 |
| Min          | 3.252 | 3.261 | 3.240 | 3.247 |
| Average      | 3.284 | 3.288 | 3.276 | 3.273 |
| Max          | 3.307 | 3.318 | 3.328 | 3.321 |
| UL           | 3.400 | 3.400 | 3.400 | 3.400 |



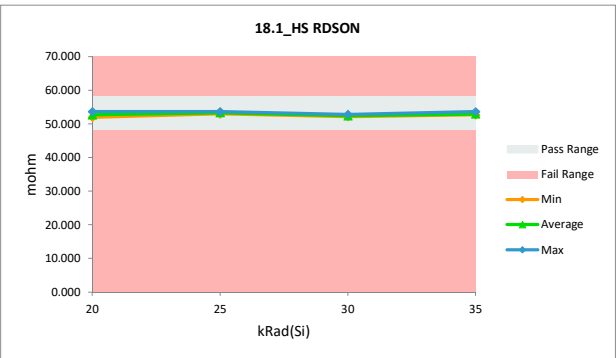
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 18.1_HS RDSON |          |         |          |        |
|---------------|----------|---------|----------|--------|
| Test Site     |          |         |          |        |
| Tester        |          |         |          |        |
| Test Number   |          |         |          |        |
| Unit          |          | mohm    | mohm     |        |
| Max Limit     |          | 58      | 58       |        |
| Min Limit     |          | 48      | 48       |        |
| kRad(Si)      | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20            | 61       | 53.980  | 51.980   | -2.000 |
| 20            | 62       | 55.080  | 52.910   | -2.170 |
| 20            | 63       | 55.220  | 53.030   | -2.190 |
| 20            | 64       | 54.230  | 52.240   | -1.990 |
| 20            | 65       | 54.820  | 52.790   | -2.030 |
| 20            | 67       | 54.590  | 52.570   | -2.020 |
| 20            | 68       | 54.180  | 52.430   | -1.750 |
| 20            | 69       | 54.070  | 52.330   | -1.740 |
| 20            | 70       | 54.350  | 52.660   | -1.690 |
| 20            | 71       | 54.670  | 52.830   | -1.840 |
| 20            | 72       | 53.960  | 52.250   | -1.710 |
| 20            | 73       | 54.840  | 53.050   | -1.790 |
| 20            | 74       | 54.700  | 52.800   | -1.900 |
| 20            | 75       | 54.170  | 52.360   | -1.810 |
| 20            | 76       | 54.800  | 52.880   | -1.920 |
| 20            | 77       | 55.050  | 53.060   | -1.990 |
| 20            | 78       | 54.210  | 52.430   | -1.780 |
| 20            | 79       | 55.520  | 53.600   | -1.920 |
| 20            | 80       | 54.270  | 52.520   | -1.750 |
| 20            | 81       | 54.190  | 52.460   | -1.730 |
| 20            | 82       | 54.620  | 52.720   | -1.900 |
| 20            | 83       | 54.310  | 52.430   | -1.880 |
| 25            | 84       | 54.520  | 53.170   | -1.350 |
| 25            | 85       | 54.730  | 53.320   | -1.410 |
| 25            | 86       | 54.930  | 53.610   | -1.320 |
| 25            | 87       | 54.830  | 53.480   | -1.350 |
| 25            | 88       | 54.270  | 52.950   | -1.320 |
| 30            | 89       | 55.120  | 52.790   | -2.330 |
| 30            | 90       | 54.330  | 52.130   | -2.200 |
| 30            | 91       | 54.460  | 52.340   | -2.120 |
| 30            | 92       | 54.360  | 52.250   | -2.110 |
| 30            | 93       | 54.360  | 52.330   | -2.030 |
| 35            | 94       | 54.270  | 52.740   | -1.530 |
| 35            | 95       | 55.350  | 53.610   | -1.740 |
| 35            | 96       | 54.360  | 52.770   | -1.590 |
| 35            | 97       | 54.180  | 52.650   | -1.530 |
| 35            | 98       | 54.490  | 52.860   | -1.630 |
| Max           |          | 55.520  | 53.610   | -1.320 |
| Average       |          | 54.551  | 52.739   | -1.812 |
| Min           |          | 53.960  | 51.980   | -2.330 |
| Std Dev       |          | 0.394   | 0.425    | 0.265  |



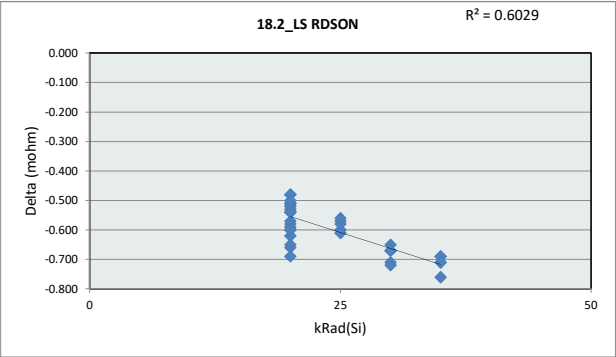
|             | 18.1_HS RDSON |        |        |        |
|-------------|---------------|--------|--------|--------|
| Test Site   |               |        |        |        |
| Tester      |               |        |        |        |
| Test Number |               |        |        |        |
| Max Limit   | 58            | mohm   |        |        |
| Min Limit   | 48            | mohm   |        |        |
| kRad(Si)    | 20            | 25     | 30     | 35     |
| LL          | 48.000        | 48.000 | 48.000 | 48.000 |
| Min         | 51.980        | 52.950 | 52.130 | 52.650 |
| Average     | 52.651        | 53.306 | 52.368 | 52.926 |
| Max         | 53.600        | 53.610 | 52.790 | 53.610 |
| UL          | 58.000        | 58.000 | 58.000 | 58.000 |
|             |               |        |        |        |



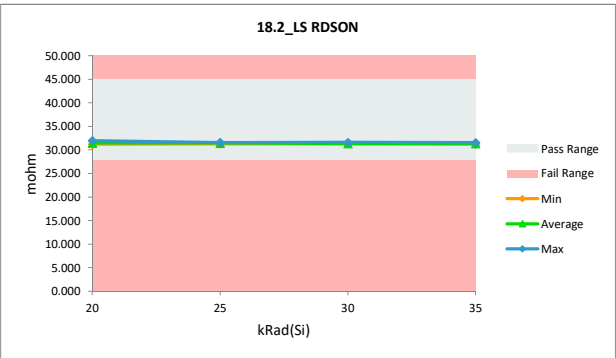
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 18.2_LS RDSON |          |         |          |        |
|---------------|----------|---------|----------|--------|
| Test Site     |          |         |          |        |
| Tester        |          |         |          |        |
| Test Number   |          |         |          |        |
| Unit          |          | mohm    | mohm     |        |
| Max Limit     |          | 45      | 45       |        |
| Min Limit     |          | 27.8    | 27.8     |        |
| kRad(Si)      | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20            | 61       | 31.900  | 31.240   | -0.660 |
| 20            | 62       | 32.150  | 31.500   | -0.650 |
| 20            | 63       | 32.270  | 31.580   | -0.690 |
| 20            | 64       | 31.810  | 31.190   | -0.620 |
| 20            | 65       | 32.110  | 31.510   | -0.600 |
| 20            | 67       | 32.100  | 31.510   | -0.590 |
| 20            | 68       | 31.840  | 31.330   | -0.510 |
| 20            | 69       | 31.880  | 31.310   | -0.570 |
| 20            | 70       | 31.940  | 31.400   | -0.540 |
| 20            | 71       | 32.060  | 31.530   | -0.530 |
| 20            | 72       | 31.850  | 31.340   | -0.510 |
| 20            | 73       | 32.090  | 31.570   | -0.520 |
| 20            | 74       | 32.010  | 31.530   | -0.480 |
| 20            | 75       | 31.910  | 31.430   | -0.480 |
| 20            | 76       | 32.050  | 31.530   | -0.520 |
| 20            | 77       | 32.240  | 31.660   | -0.580 |
| 20            | 78       | 31.830  | 31.320   | -0.510 |
| 20            | 79       | 32.470  | 31.960   | -0.510 |
| 20            | 80       | 31.950  | 31.410   | -0.540 |
| 20            | 81       | 31.980  | 31.480   | -0.500 |
| 20            | 82       | 32.030  | 31.490   | -0.540 |
| 20            | 83       | 31.910  | 31.310   | -0.600 |
| 25            | 84       | 31.900  | 31.300   | -0.600 |
| 25            | 85       | 32.140  | 31.530   | -0.610 |
| 25            | 86       | 32.160  | 31.590   | -0.570 |
| 25            | 87       | 32.040  | 31.460   | -0.580 |
| 25            | 88       | 31.990  | 31.430   | -0.560 |
| 30            | 89       | 32.310  | 31.600   | -0.710 |
| 30            | 90       | 31.980  | 31.330   | -0.650 |
| 30            | 91       | 31.990  | 31.270   | -0.720 |
| 30            | 92       | 32.020  | 31.350   | -0.670 |
| 30            | 93       | 32.010  | 31.340   | -0.670 |
| 35            | 94       | 32.020  | 31.330   | -0.690 |
| 35            | 95       | 32.340  | 31.580   | -0.760 |
| 35            | 96       | 32.070  | 31.380   | -0.690 |
| 35            | 97       | 31.920  | 31.210   | -0.710 |
| 35            | 98       | 32.050  | 31.340   | -0.710 |
| Max           |          | 32.470  | 31.960   | -0.480 |
| Average       |          | 32.036  | 31.437   | -0.599 |
| Min           |          | 31.810  | 31.190   | -0.760 |
| Std Dev       |          | 0.150   | 0.150    | 0.079  |



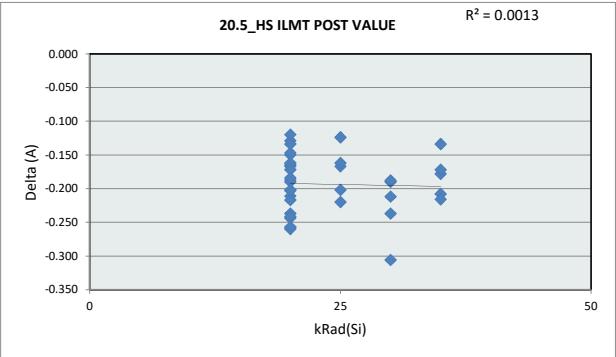
|             | 18.2_LS RDSON |        |        |        |
|-------------|---------------|--------|--------|--------|
| Test Site   |               |        |        |        |
| Tester      |               |        |        |        |
| Test Number |               |        |        |        |
| Max Limit   | 45            | mohm   |        |        |
| Min Limit   | 27.8          | mohm   |        |        |
| kRad(Si)    | 20            | 25     | 30     | 35     |
| LL          | 27.800        | 27.800 | 27.800 | 27.800 |
| Min         | 31.190        | 31.300 | 31.270 | 31.210 |
| Average     | 31.460        | 31.462 | 31.378 | 31.368 |
| Max         | 31.960        | 31.590 | 31.600 | 31.580 |
| UL          | 45.000        | 45.000 | 45.000 | 45.000 |
|             |               |        |        |        |



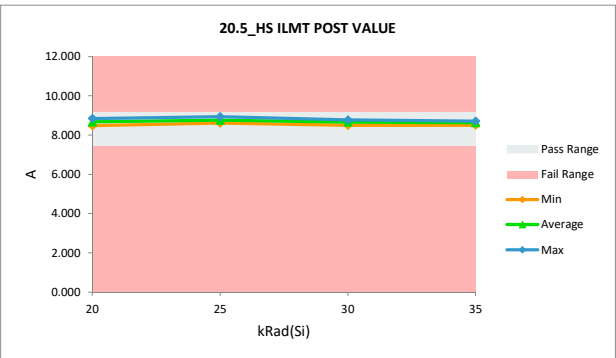
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 20.5_HS ILMT POST VALUE |          |         |          |        |
|-------------------------|----------|---------|----------|--------|
| Test Site               |          |         |          |        |
| Tester                  |          |         |          |        |
| Test Number             |          |         |          |        |
| Unit                    | A        | A       |          |        |
| Max Limit               | 9.15     | 9.15    |          |        |
| Min Limit               | 7.4      | 7.4     |          |        |
| kRad(Si)                | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                      | 61       | 8.873   | 8.723    | -0.150 |
| 20                      | 62       | 8.975   | 8.717    | -0.258 |
| 20                      | 63       | 8.882   | 8.622    | -0.260 |
| 20                      | 64       | 8.955   | 8.790    | -0.165 |
| 20                      | 65       | 8.881   | 8.637    | -0.244 |
| 20                      | 67       | 8.711   | 8.474    | -0.237 |
| 20                      | 68       | 8.862   | 8.715    | -0.147 |
| 20                      | 69       | 8.817   | 8.650    | -0.167 |
| 20                      | 70       | 8.727   | 8.598    | -0.129 |
| 20                      | 71       | 8.845   | 8.634    | -0.211 |
| 20                      | 72       | 8.877   | 8.687    | -0.190 |
| 20                      | 73       | 8.992   | 8.830    | -0.162 |
| 20                      | 74       | 8.806   | 8.589    | -0.217 |
| 20                      | 75       | 8.797   | 8.663    | -0.134 |
| 20                      | 76       | 8.952   | 8.710    | -0.242 |
| 20                      | 77       | 9.048   | 8.845    | -0.203 |
| 20                      | 78       | 8.942   | 8.770    | -0.172 |
| 20                      | 79       | 8.883   | 8.626    | -0.257 |
| 20                      | 80       | 8.794   | 8.592    | -0.202 |
| 20                      | 81       | 8.810   | 8.623    | -0.187 |
| 20                      | 82       | 8.788   | 8.604    | -0.184 |
| 20                      | 83       | 8.889   | 8.769    | -0.120 |
| 25                      | 84       | 9.062   | 8.938    | -0.124 |
| 25                      | 85       | 8.834   | 8.614    | -0.220 |
| 25                      | 86       | 8.891   | 8.724    | -0.167 |
| 25                      | 87       | 8.880   | 8.718    | -0.162 |
| 25                      | 88       | 8.998   | 8.796    | -0.202 |
| 30                      | 89       | 8.737   | 8.500    | -0.237 |
| 30                      | 90       | 8.901   | 8.711    | -0.190 |
| 30                      | 91       | 9.025   | 8.719    | -0.306 |
| 30                      | 92       | 8.960   | 8.772    | -0.188 |
| 30                      | 93       | 8.825   | 8.613    | -0.212 |
| 35                      | 94       | 8.861   | 8.683    | -0.178 |
| 35                      | 95       | 8.789   | 8.655    | -0.134 |
| 35                      | 96       | 8.710   | 8.502    | -0.208 |
| 35                      | 97       | 8.831   | 8.615    | -0.216 |
| 35                      | 98       | 8.884   | 8.712    | -0.172 |
| Max                     |          | 9.062   | 8.938    | -0.120 |
| Average                 |          | 8.873   | 8.679    | -0.193 |
| Min                     |          | 8.710   | 8.474    | -0.306 |
| Std Dev                 |          | 0.090   | 0.097    | 0.043  |



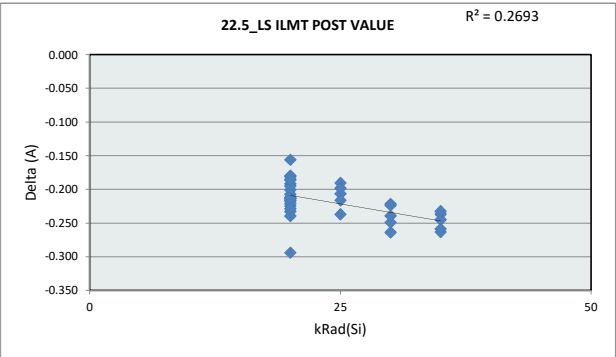
| 20.5_HS ILMT POST VALUE |       |       |       |       |
|-------------------------|-------|-------|-------|-------|
| Test Site               |       |       |       |       |
| Tester                  |       |       |       |       |
| Test Number             |       |       |       |       |
| Max Limit               | 9.15  | A     |       |       |
| Min Limit               | 7.4   | A     |       |       |
| kRad(Si)                | 20    | 25    | 30    | 35    |
| LL                      | 7.400 | 7.400 | 7.400 | 7.400 |
| Min                     | 8.474 | 8.614 | 8.500 | 8.502 |
| Average                 | 8.676 | 8.758 | 8.663 | 8.633 |
| Max                     | 8.845 | 8.938 | 8.772 | 8.712 |
| UL                      | 9.150 | 9.150 | 9.150 | 9.150 |



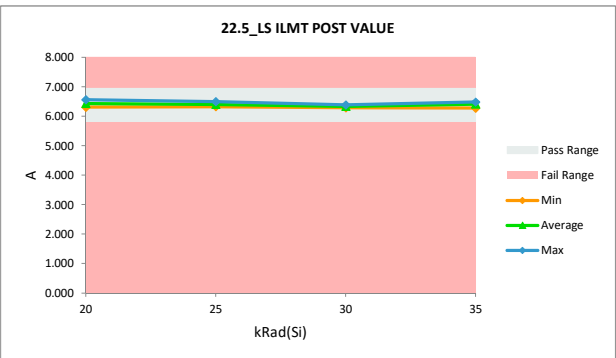
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 22.5_LS ILMT POST VALUE |          |         |          |        |
|-------------------------|----------|---------|----------|--------|
| Test Site               |          |         |          |        |
| Tester                  |          |         |          |        |
| Test Number             |          |         |          |        |
| Unit                    | A        | A       |          |        |
| Max Limit               | 6.95     | 6.95    |          |        |
| Min Limit               | 5.8      | 5.8     |          |        |
| kRad(Si)                | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                      | 61       | 6.635   | 6.454    | -0.181 |
| 20                      | 62       | 6.674   | 6.463    | -0.211 |
| 20                      | 63       | 6.676   | 6.382    | -0.294 |
| 20                      | 64       | 6.568   | 6.377    | -0.192 |
| 20                      | 65       | 6.588   | 6.376    | -0.213 |
| 20                      | 67       | 6.586   | 6.346    | -0.240 |
| 20                      | 68       | 6.710   | 6.493    | -0.217 |
| 20                      | 69       | 6.691   | 6.505    | -0.185 |
| 20                      | 70       | 6.688   | 6.532    | -0.156 |
| 20                      | 71       | 6.758   | 6.558    | -0.201 |
| 20                      | 72       | 6.735   | 6.539    | -0.195 |
| 20                      | 73       | 6.725   | 6.518    | -0.207 |
| 20                      | 74       | 6.541   | 6.308    | -0.233 |
| 20                      | 75       | 6.604   | 6.387    | -0.216 |
| 20                      | 76       | 6.698   | 6.473    | -0.225 |
| 20                      | 77       | 6.578   | 6.364    | -0.214 |
| 20                      | 78       | 6.557   | 6.336    | -0.221 |
| 20                      | 79       | 6.573   | 6.358    | -0.214 |
| 20                      | 80       | 6.572   | 6.393    | -0.180 |
| 20                      | 81       | 6.689   | 6.460    | -0.229 |
| 20                      | 82       | 6.651   | 6.438    | -0.213 |
| 20                      | 83       | 6.649   | 6.463    | -0.186 |
| 25                      | 84       | 6.686   | 6.495    | -0.191 |
| 25                      | 85       | 6.593   | 6.387    | -0.207 |
| 25                      | 86       | 6.643   | 6.427    | -0.216 |
| 25                      | 87       | 6.520   | 6.322    | -0.198 |
| 25                      | 88       | 6.608   | 6.371    | -0.237 |
| 30                      | 89       | 6.510   | 6.288    | -0.222 |
| 30                      | 90       | 6.583   | 6.359    | -0.224 |
| 30                      | 91       | 6.647   | 6.383    | -0.264 |
| 30                      | 92       | 6.565   | 6.316    | -0.249 |
| 30                      | 93       | 6.576   | 6.337    | -0.239 |
| 35                      | 94       | 6.716   | 6.479    | -0.237 |
| 35                      | 95       | 6.712   | 6.479    | -0.232 |
| 35                      | 96       | 6.618   | 6.354    | -0.263 |
| 35                      | 97       | 6.738   | 6.479    | -0.259 |
| 35                      | 98       | 6.519   | 6.274    | -0.245 |
| Max                     |          | 6.758   | 6.558    | -0.156 |
| Average                 |          | 6.632   | 6.413    | -0.219 |
| Min                     |          | 6.510   | 6.274    | -0.294 |
| Std Dev                 |          | 0.069   | 0.076    | 0.028  |



| 22.5_LS ILMT POST VALUE |       |       |       |       |
|-------------------------|-------|-------|-------|-------|
| Test Site               |       |       |       |       |
| Tester                  |       |       |       |       |
| Test Number             |       |       |       |       |
| Max Limit               | 6.95  | A     |       |       |
| Min Limit               | 5.8   | A     |       |       |
| kRad(Si)                | 20    | 25    | 30    | 35    |
| LL                      | 5.800 | 5.800 | 5.800 | 5.800 |
| Min                     | 6.308 | 6.322 | 6.288 | 6.274 |
| Average                 | 6.433 | 6.400 | 6.337 | 6.413 |
| Max                     | 6.558 | 6.495 | 6.383 | 6.479 |
| UL                      | 6.950 | 6.950 | 6.950 | 6.950 |

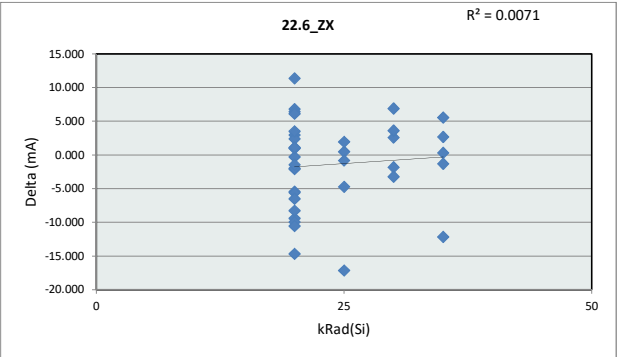


# HDR TID Report

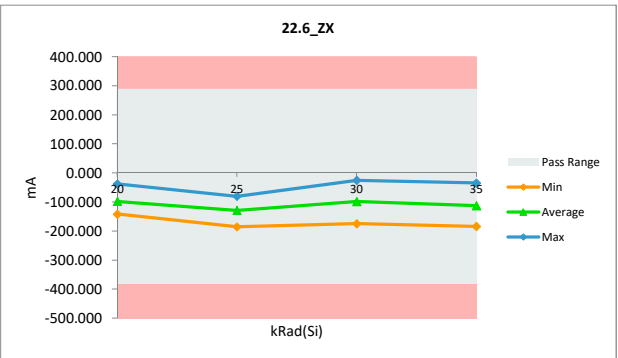
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 22.6_ZX     |          |          |          |         |
|-------------|----------|----------|----------|---------|
| Test Site   |          |          |          |         |
| Tester      |          |          |          |         |
| Test Number |          |          |          |         |
| Unit        |          | mA       | mA       |         |
| Max Limit   |          | 288      | 288      |         |
| Min Limit   |          | -380     | -380     |         |
| kRad(Si)    | Serial # | Pre_HDR  | Post_HDR | Delta   |
| 20          | 61       | -32.770  | -38.230  | -5.460  |
| 20          | 62       | -128.790 | -127.840 | 0.950   |
| 20          | 63       | -129.320 | -131.410 | -2.090  |
| 20          | 64       | -46.280  | -51.880  | -5.600  |
| 20          | 65       | -112.650 | -122.060 | -9.410  |
| 20          | 67       | -69.490  | -69.800  | -0.310  |
| 20          | 68       | -99.060  | -98.030  | 1.030   |
| 20          | 69       | -99.070  | -107.340 | -8.270  |
| 20          | 70       | -32.720  | -47.410  | -14.690 |
| 20          | 71       | -110.550 | -112.540 | -1.990  |
| 20          | 72       | -99.030  | -96.090  | 2.940   |
| 20          | 73       | -131.580 | -129.190 | 2.390   |
| 20          | 74       | -54.900  | -48.120  | 6.780   |
| 20          | 75       | -114.990 | -121.500 | -6.510  |
| 20          | 76       | -64.300  | -63.190  | 1.110   |
| 20          | 77       | -88.030  | -84.530  | 3.500   |
| 20          | 78       | -102.520 | -112.480 | -9.960  |
| 20          | 79       | -135.960 | -124.610 | 11.350  |
| 20          | 80       | -113.620 | -107.190 | 6.430   |
| 20          | 81       | -106.880 | -108.340 | -1.460  |
| 20          | 82       | -131.210 | -141.770 | -10.560 |
| 20          | 83       | -115.600 | -109.500 | 6.100   |
| 25          | 84       | -80.750  | -80.290  | 0.460   |
| 25          | 85       | -108.520 | -106.600 | 1.920   |
| 25          | 86       | -114.490 | -131.650 | -17.160 |
| 25          | 87       | -184.990 | -185.820 | -0.830  |
| 25          | 88       | -134.550 | -139.280 | -4.730  |
| 30          | 89       | -172.950 | -174.780 | -1.830  |
| 30          | 90       | -50.470  | -53.690  | -3.220  |
| 30          | 91       | -28.330  | -25.740  | 2.590   |
| 30          | 92       | -73.490  | -69.890  | 3.600   |
| 30          | 93       | -174.530 | -167.660 | 6.870   |
| 35          | 94       | -121.260 | -122.580 | -1.320  |
| 35          | 95       | -40.400  | -34.860  | 5.540   |
| 35          | 96       | -83.650  | -83.340  | 0.310   |
| 35          | 97       | -142.890 | -140.220 | 2.670   |
| 35          | 98       | -172.270 | -184.450 | -12.180 |
|             | Max      | -28.330  | -25.740  | 11.350  |
|             | Average  | -102.780 | -104.159 | -1.379  |
|             | Min      | -184.990 | -185.820 | -17.160 |
|             | Std Dev  | 41.344   | 41.774   | 6.456   |



| 22.6_ZX     |          |          |          |          |
|-------------|----------|----------|----------|----------|
| Test Site   |          |          |          |          |
| Tester      |          |          |          |          |
| Test Number |          |          |          |          |
| Max Limit   | 288      | mA       |          |          |
| Min Limit   | -380     | mA       |          |          |
| kRad(Si)    | 20       | 25       | 30       | 35       |
| LL          | -380.000 | -380.000 | -380.000 | -380.000 |
| Min         | -141.770 | -185.820 | -174.780 | -184.450 |
| Average     | -97.866  | -128.728 | -98.352  | -113.090 |
| Max         | -38.230  | -80.290  | -25.740  | -34.860  |
| UL          | 288.000  | 288.000  | 288.000  | 288.000  |

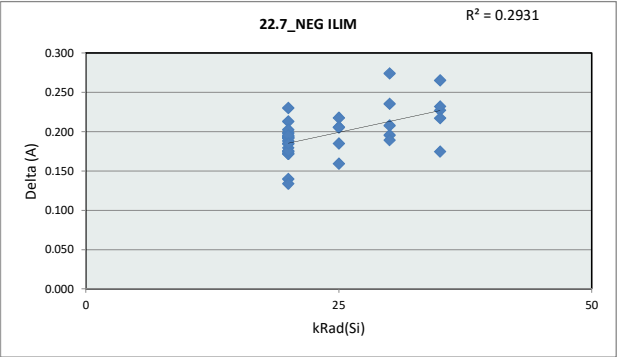




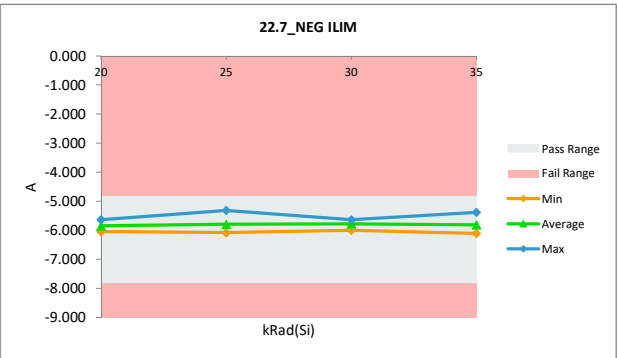
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 22.7_NEG ILIM |          |         |          |       |
|---------------|----------|---------|----------|-------|
| Test Site     |          |         |          |       |
| Tester        |          |         |          |       |
| Test Number   |          |         |          |       |
| Unit          | A        | A       |          |       |
| Max Limit     | -4.8     | -4.8    |          |       |
| Min Limit     | -7.8     | -7.8    |          |       |
| kRad(Si)      | Serial # | Pre_HDR | Post_HDR | Delta |
| 20            | 61       | -5.943  | -5.803   | 0.140 |
| 20            | 62       | -6.019  | -5.839   | 0.180 |
| 20            | 63       | -5.987  | -5.757   | 0.230 |
| 20            | 64       | -6.156  | -5.984   | 0.172 |
| 20            | 65       | -6.152  | -5.939   | 0.213 |
| 20            | 67       | -5.997  | -5.799   | 0.198 |
| 20            | 68       | -6.182  | -5.989   | 0.193 |
| 20            | 69       | -6.078  | -5.903   | 0.175 |
| 20            | 70       | -6.026  | -5.833   | 0.193 |
| 20            | 71       | -6.063  | -5.871   | 0.192 |
| 20            | 72       | -6.232  | -6.047   | 0.184 |
| 20            | 73       | -6.197  | -6.008   | 0.188 |
| 20            | 74       | -5.863  | -5.668   | 0.194 |
| 20            | 75       | -6.164  | -5.990   | 0.174 |
| 20            | 76       | -6.105  | -5.906   | 0.199 |
| 20            | 77       | -5.807  | -5.635   | 0.172 |
| 20            | 78       | -5.942  | -5.739   | 0.203 |
| 20            | 79       | -5.813  | -5.679   | 0.134 |
| 20            | 80       | -6.198  | -6.006   | 0.192 |
| 20            | 81       | -5.858  | -5.682   | 0.175 |
| 20            | 82       | -5.916  | -5.721   | 0.195 |
| 20            | 83       | -6.082  | -5.898   | 0.185 |
| 25            | 84       | -6.160  | -5.975   | 0.185 |
| 25            | 85       | -6.053  | -5.835   | 0.218 |
| 25            | 86       | -6.290  | -6.084   | 0.206 |
| 25            | 87       | -5.473  | -5.314   | 0.159 |
| 25            | 88       | -5.983  | -5.778   | 0.205 |
| 30            | 89       | -5.876  | -5.640   | 0.236 |
| 30            | 90       | -5.850  | -5.655   | 0.196 |
| 30            | 91       | -6.246  | -5.972   | 0.274 |
| 30            | 92       | -5.827  | -5.638   | 0.189 |
| 30            | 93       | -6.210  | -6.002   | 0.208 |
| 35            | 94       | -6.138  | -5.911   | 0.227 |
| 35            | 95       | -5.991  | -5.817   | 0.175 |
| 35            | 96       | -6.110  | -5.845   | 0.265 |
| 35            | 97       | -6.328  | -6.111   | 0.217 |
| 35            | 98       | -5.612  | -5.380   | 0.232 |
| Max           |          | -5.473  | -5.314   | 0.274 |
| Average       |          | -6.025  | -5.828   | 0.197 |
| Min           |          | -6.328  | -6.111   | 0.134 |
| Std Dev       |          | 0.184   | 0.178    | 0.029 |



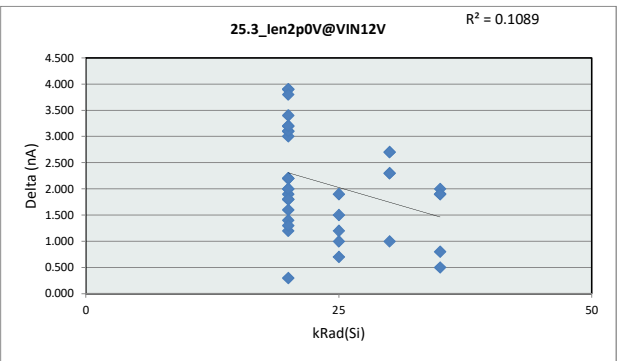
| 22.7_NEG ILIM |        |        |        |        |
|---------------|--------|--------|--------|--------|
| Test Site     |        |        |        |        |
| Tester        |        |        |        |        |
| Test Number   |        |        |        |        |
| Max Limit     | -4.8   | A      |        |        |
| Min Limit     | -7.8   | A      |        |        |
| kRad(Si)      | 20     | 25     | 30     | 35     |
| LL            | -7.800 | -7.800 | -7.800 | -7.800 |
| Min           | -6.047 | -6.084 | -6.002 | -6.111 |
| Average       | -5.850 | -5.797 | -5.781 | -5.813 |
| Max           | -5.635 | -5.314 | -5.638 | -5.380 |
| UL            | -4.800 | -4.800 | -4.800 | -4.800 |



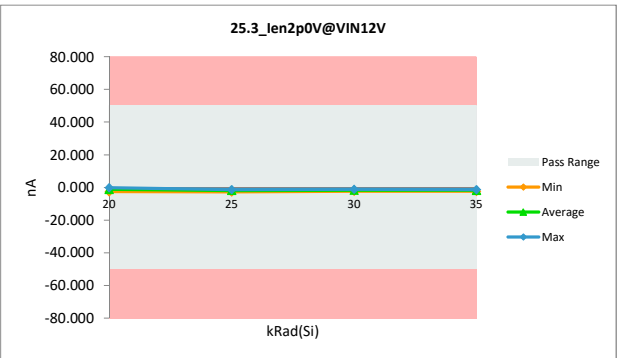
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 25.3_Ien2p0V@VIN12V |          |         |          |       |
|---------------------|----------|---------|----------|-------|
| Test Site           |          |         |          |       |
| Tester              |          |         |          |       |
| Test Number         |          |         |          |       |
| Unit                | nA       | nA      |          |       |
| Max Limit           | 50       | 50      |          |       |
| Min Limit           | -50      | -50     |          |       |
| kRad(Si)            | Serial # | Pre_HDR | Post_HDR | Delta |
| 20                  | 61       | -4.300  | -1.100   | 3.200 |
| 20                  | 62       | -3.600  | -1.800   | 1.800 |
| 20                  | 63       | -3.800  | -0.700   | 3.100 |
| 20                  | 64       | -4.000  | -0.100   | 3.900 |
| 20                  | 65       | -4.200  | -1.200   | 3.000 |
| 20                  | 67       | -3.100  | -0.900   | 2.200 |
| 20                  | 68       | -3.900  | -0.500   | 3.400 |
| 20                  | 69       | -3.100  | -1.900   | 1.200 |
| 20                  | 70       | -2.700  | -0.800   | 1.900 |
| 20                  | 71       | -3.500  | -1.300   | 2.200 |
| 20                  | 72       | -2.700  | -1.300   | 1.400 |
| 20                  | 73       | -4.200  | -0.300   | 3.900 |
| 20                  | 74       | -4.000  | -0.900   | 3.100 |
| 20                  | 75       | -3.500  | -1.500   | 2.000 |
| 20                  | 76       | -3.600  | -1.400   | 2.200 |
| 20                  | 77       | -2.900  | -1.600   | 1.300 |
| 20                  | 78       | -4.800  | -1.600   | 3.200 |
| 20                  | 79       | -3.100  | -1.500   | 1.600 |
| 20                  | 80       | -2.900  | -2.600   | 0.300 |
| 20                  | 81       | -4.300  | -0.500   | 3.800 |
| 20                  | 82       | -2.700  | -0.700   | 2.000 |
| 20                  | 83       | -3.600  | -1.800   | 1.800 |
| 25                  | 84       | -3.400  | -1.500   | 1.900 |
| 25                  | 85       | -2.700  | -1.700   | 1.000 |
| 25                  | 86       | -2.800  | -1.300   | 1.500 |
| 25                  | 87       | -3.400  | -2.700   | 0.700 |
| 25                  | 88       | -3.200  | -2.000   | 1.200 |
| 30                  | 89       | -3.400  | -2.400   | 1.000 |
| 30                  | 90       | -4.000  | -1.700   | 2.300 |
| 30                  | 91       | -4.000  | -1.700   | 2.300 |
| 30                  | 92       | -4.200  | -1.500   | 2.700 |
| 30                  | 93       | -3.800  | -1.100   | 2.700 |
| 35                  | 94       | -3.200  | -1.300   | 1.900 |
| 35                  | 95       | -2.500  | -1.700   | 0.800 |
| 35                  | 96       | -3.600  | -1.600   | 2.000 |
| 35                  | 97       | -2.900  | -2.400   | 0.500 |
| 35                  | 98       | -3.600  | -1.700   | 1.900 |
| Max                 |          | -2.500  | -0.100   | 3.900 |
| Average             |          | -3.492  | -1.414   | 2.078 |
| Min                 |          | -4.800  | -2.700   | 0.300 |
| Std Dev             |          | 0.569   | 0.607    | 0.953 |



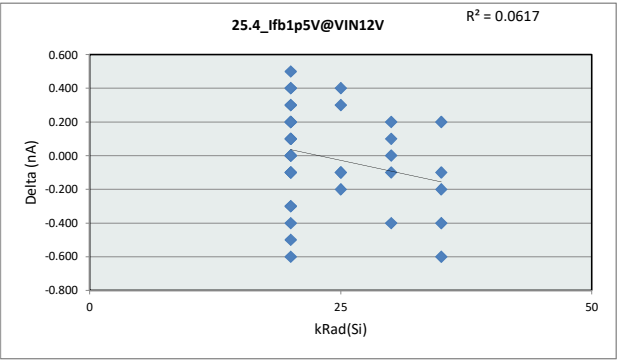
| 25.3_Ien2p0V@VIN12V |         |         |         |         |
|---------------------|---------|---------|---------|---------|
| Test Site           |         |         |         |         |
| Tester              |         |         |         |         |
| Test Number         |         |         |         |         |
| Max Limit           | 50      | nA      |         |         |
| Min Limit           | -50     | nA      |         |         |
| kRad(Si)            | 20      | 25      | 30      | 35      |
| LL                  | -50.000 | -50.000 | -50.000 | -50.000 |
| Min                 | -2.600  | -2.700  | -2.400  | -2.400  |
| Average             | -1.182  | -1.840  | -1.680  | -1.740  |
| Max                 | -0.100  | -1.300  | -1.100  | -1.300  |
| UL                  | 50.000  | 50.000  | 50.000  | 50.000  |



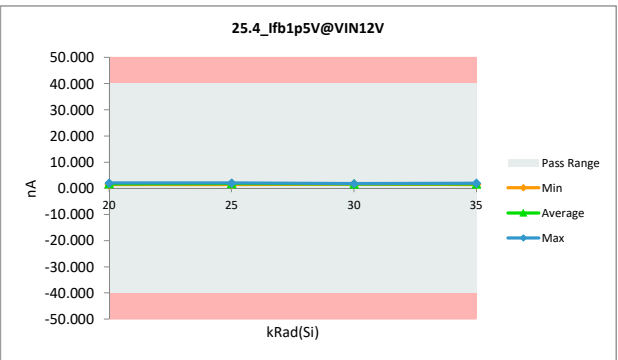
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 25.4_Ifb1p5V@VIN12V |          |         |          |        |
|---------------------|----------|---------|----------|--------|
| Test Site           |          |         |          |        |
| Tester              |          |         |          |        |
| Test Number         |          |         |          |        |
| Unit                | nA       | nA      |          |        |
| Max Limit           | 40       | 40      |          |        |
| Min Limit           | -40      | -40     |          |        |
| kRad(Si)            | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                  | 61       | 1.800   | 2.000    | 0.200  |
| 20                  | 62       | 2.000   | 1.400    | -0.600 |
| 20                  | 63       | 1.800   | 1.400    | -0.400 |
| 20                  | 64       | 1.600   | 1.600    | 0.000  |
| 20                  | 65       | 1.500   | 1.400    | -0.100 |
| 20                  | 67       | 1.900   | 1.900    | 0.000  |
| 20                  | 68       | 1.600   | 1.700    | 0.100  |
| 20                  | 69       | 1.500   | 1.900    | 0.400  |
| 20                  | 70       | 1.700   | 1.800    | 0.100  |
| 20                  | 71       | 1.800   | 1.800    | 0.000  |
| 20                  | 72       | 2.000   | 1.700    | -0.300 |
| 20                  | 73       | 1.500   | 1.800    | 0.300  |
| 20                  | 74       | 1.500   | 1.900    | 0.400  |
| 20                  | 75       | 1.800   | 1.500    | -0.300 |
| 20                  | 76       | 1.900   | 1.800    | -0.100 |
| 20                  | 77       | 1.700   | 1.900    | 0.200  |
| 20                  | 78       | 1.600   | 1.900    | 0.300  |
| 20                  | 79       | 1.700   | 1.900    | 0.200  |
| 20                  | 80       | 1.500   | 2.000    | 0.500  |
| 20                  | 81       | 1.900   | 1.400    | -0.500 |
| 20                  | 82       | 2.000   | 1.900    | -0.100 |
| 20                  | 83       | 1.900   | 2.000    | 0.100  |
| 25                  | 84       | 1.800   | 1.700    | -0.100 |
| 25                  | 85       | 1.600   | 1.500    | -0.100 |
| 25                  | 86       | 1.600   | 2.000    | 0.400  |
| 25                  | 87       | 2.000   | 1.800    | -0.200 |
| 25                  | 88       | 1.600   | 1.900    | 0.300  |
| 30                  | 89       | 2.100   | 1.700    | -0.400 |
| 30                  | 90       | 1.500   | 1.600    | 0.100  |
| 30                  | 91       | 1.600   | 1.800    | 0.200  |
| 30                  | 92       | 1.800   | 1.700    | -0.100 |
| 30                  | 93       | 1.600   | 1.600    | 0.000  |
| 35                  | 94       | 1.900   | 1.500    | -0.400 |
| 35                  | 95       | 1.700   | 1.900    | 0.200  |
| 35                  | 96       | 2.000   | 1.900    | -0.100 |
| 35                  | 97       | 2.000   | 1.400    | -0.600 |
| 35                  | 98       | 1.700   | 1.500    | -0.200 |
| Max                 |          | 2.100   | 2.000    | 0.500  |
| Average             |          | 1.749   | 1.732    | -0.016 |
| Min                 |          | 1.500   | 1.400    | -0.600 |
| Std Dev             |          | 0.182   | 0.199    | 0.289  |



| 25.4_Ifb1p5V@VIN12V |         |         |         |         |
|---------------------|---------|---------|---------|---------|
| Test Site           |         |         |         |         |
| Tester              |         |         |         |         |
| Test Number         |         |         |         |         |
| Max Limit           | 40      | nA      |         |         |
| Min Limit           | -40     | nA      |         |         |
| kRad(Si)            | 20      | 25      | 30      | 35      |
| LL                  | -40.000 | -40.000 | -40.000 | -40.000 |
| Min                 | 1.400   | 1.500   | 1.600   | 1.400   |
| Average             | 1.755   | 1.780   | 1.680   | 1.640   |
| Max                 | 2.000   | 2.000   | 1.800   | 1.900   |
| UL                  | 40.000  | 40.000  | 40.000  | 40.000  |

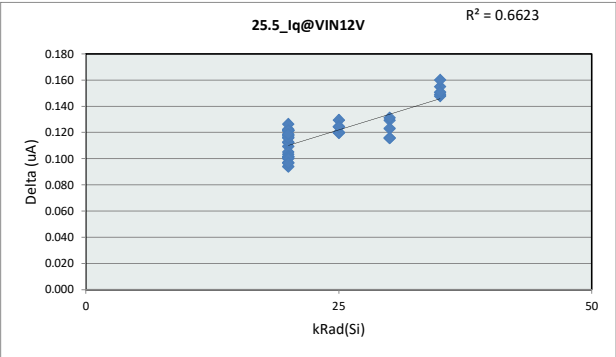


# HDR TID Report

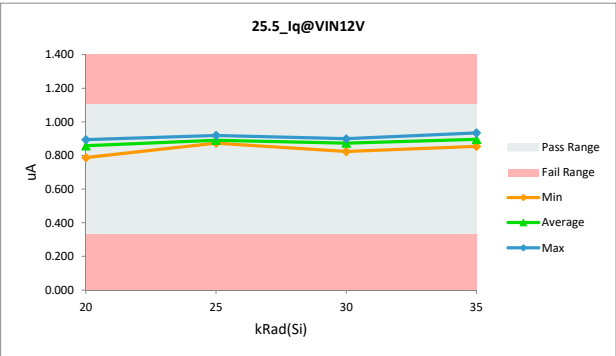
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 25.5_Iq@VIN12V |          |         |          |       |
|----------------|----------|---------|----------|-------|
| Test Site      |          |         |          |       |
| Tester         |          |         |          |       |
| Test Number    |          |         |          |       |
| Unit           |          | uA      | uA       |       |
| Max Limit      |          | 1.1     | 1.1      |       |
| Min Limit      |          | 0.33    | 0.33     |       |
| kRad(Si)       | Serial # | Pre_HDR | Post_HDR | Delta |
| 20             | 61       | 0.763   | 0.873    | 0.109 |
| 20             | 62       | 0.669   | 0.787    | 0.118 |
| 20             | 63       | 0.702   | 0.814    | 0.113 |
| 20             | 64       | 0.762   | 0.874    | 0.113 |
| 20             | 65       | 0.784   | 0.881    | 0.097 |
| 20             | 67       | 0.742   | 0.865    | 0.122 |
| 20             | 68       | 0.775   | 0.876    | 0.101 |
| 20             | 69       | 0.766   | 0.869    | 0.103 |
| 20             | 70       | 0.747   | 0.852    | 0.105 |
| 20             | 71       | 0.744   | 0.866    | 0.121 |
| 20             | 72       | 0.767   | 0.886    | 0.118 |
| 20             | 73       | 0.793   | 0.894    | 0.101 |
| 20             | 74       | 0.726   | 0.848    | 0.122 |
| 20             | 75       | 0.746   | 0.862    | 0.116 |
| 20             | 76       | 0.698   | 0.824    | 0.126 |
| 20             | 77       | 0.683   | 0.799    | 0.116 |
| 20             | 78       | 0.743   | 0.864    | 0.122 |
| 20             | 79       | 0.782   | 0.876    | 0.094 |
| 20             | 80       | 0.770   | 0.872    | 0.102 |
| 20             | 81       | 0.773   | 0.873    | 0.100 |
| 20             | 82       | 0.738   | 0.857    | 0.119 |
| 20             | 83       | 0.761   | 0.858    | 0.097 |
| 25             | 84       | 0.744   | 0.874    | 0.130 |
| 25             | 85       | 0.749   | 0.873    | 0.124 |
| 25             | 86       | 0.799   | 0.919    | 0.120 |
| 25             | 87       | 0.785   | 0.905    | 0.120 |
| 25             | 88       | 0.756   | 0.880    | 0.124 |
| 30             | 89       | 0.694   | 0.824    | 0.129 |
| 30             | 90       | 0.762   | 0.893    | 0.131 |
| 30             | 91       | 0.784   | 0.899    | 0.116 |
| 30             | 92       | 0.737   | 0.860    | 0.123 |
| 30             | 93       | 0.777   | 0.892    | 0.116 |
| 35             | 94       | 0.763   | 0.918    | 0.155 |
| 35             | 95       | 0.695   | 0.855    | 0.160 |
| 35             | 96       | 0.719   | 0.867    | 0.148 |
| 35             | 97       | 0.786   | 0.935    | 0.149 |
| 35             | 98       | 0.750   | 0.901    | 0.151 |
| Max            |          | 0.799   | 0.935    | 0.160 |
| Average        |          | 0.750   | 0.869    | 0.120 |
| Min            |          | 0.669   | 0.787    | 0.094 |
| Std Dev        |          | 0.032   | 0.031    | 0.016 |



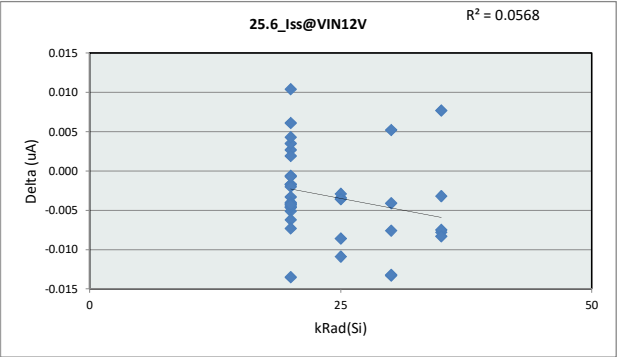
| 25.5_Iq@VIN12V |       |       |       |       |
|----------------|-------|-------|-------|-------|
| Test Site      |       |       |       |       |
| Tester         |       |       |       |       |
| Test Number    |       |       |       |       |
| Max Limit      |       | 1.1   | uA    |       |
| Min Limit      |       | 0.33  | uA    |       |
| kRad(Si)       | 20    | 25    | 30    | 35    |
| LL             | 0.330 | 0.330 | 0.330 | 0.330 |
| Min            | 0.787 | 0.874 | 0.824 | 0.855 |
| Average        | 0.858 | 0.890 | 0.874 | 0.895 |
| Max            | 0.894 | 0.919 | 0.899 | 0.935 |
| UL             | 1.100 | 1.100 | 1.100 | 1.100 |



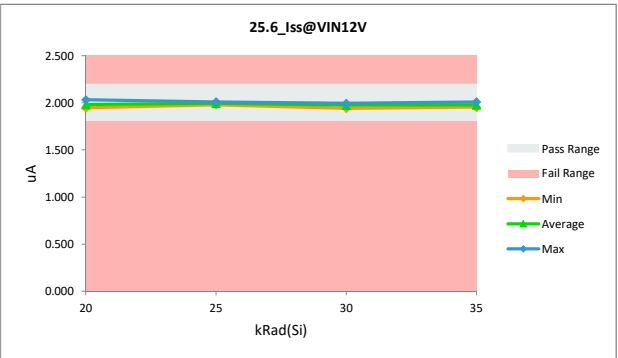
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 25.6_Iss@VIN12V |          |         |          |        |
|-----------------|----------|---------|----------|--------|
| Test Site       |          |         |          |        |
| Tester          |          |         |          |        |
| Test Number     |          |         |          |        |
| Unit            | uA       | uA      |          |        |
| Max Limit       | 2.199    | 2.199   |          |        |
| Min Limit       | 1.8      | 1.8     |          |        |
| kRad(Si)        | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20              | 61       | 1.950   | 1.948    | -0.002 |
| 20              | 62       | 1.972   | 1.967    | -0.005 |
| 20              | 63       | 2.019   | 2.015    | -0.004 |
| 20              | 64       | 1.971   | 1.957    | -0.013 |
| 20              | 65       | 2.014   | 2.009    | -0.005 |
| 20              | 67       | 1.954   | 1.948    | -0.006 |
| 20              | 68       | 2.009   | 2.012    | 0.003  |
| 20              | 69       | 1.965   | 1.969    | 0.003  |
| 20              | 70       | 1.974   | 1.975    | 0.002  |
| 20              | 71       | 2.011   | 2.016    | 0.004  |
| 20              | 72       | 1.959   | 1.956    | -0.003 |
| 20              | 73       | 1.958   | 1.956    | -0.002 |
| 20              | 74       | 1.983   | 1.979    | -0.004 |
| 20              | 75       | 1.998   | 1.996    | -0.002 |
| 20              | 76       | 1.964   | 1.970    | 0.006  |
| 20              | 77       | 1.974   | 1.967    | -0.007 |
| 20              | 78       | 1.997   | 1.993    | -0.004 |
| 20              | 79       | 2.023   | 2.033    | 0.010  |
| 20              | 80       | 2.000   | 1.995    | -0.005 |
| 20              | 81       | 1.987   | 1.982    | -0.004 |
| 20              | 82       | 1.963   | 1.962    | -0.001 |
| 20              | 83       | 2.017   | 2.016    | -0.001 |
| 25              | 84       | 1.982   | 1.979    | -0.003 |
| 25              | 85       | 2.019   | 2.010    | -0.009 |
| 25              | 86       | 2.000   | 1.997    | -0.003 |
| 25              | 87       | 2.013   | 2.002    | -0.011 |
| 25              | 88       | 1.998   | 1.994    | -0.004 |
| 30              | 89       | 1.989   | 1.995    | 0.005  |
| 30              | 90       | 1.988   | 1.984    | -0.004 |
| 30              | 91       | 1.973   | 1.960    | -0.013 |
| 30              | 92       | 2.005   | 1.992    | -0.013 |
| 30              | 93       | 1.950   | 1.943    | -0.008 |
| 35              | 94       | 1.962   | 1.954    | -0.008 |
| 35              | 95       | 1.961   | 1.969    | 0.008  |
| 35              | 96       | 1.999   | 1.991    | -0.008 |
| 35              | 97       | 2.013   | 2.010    | -0.003 |
| 35              | 98       | 1.976   | 1.968    | -0.008 |
| Max             |          | 2.023   | 2.033    | 0.010  |
| Average         |          | 1.986   | 1.983    | -0.003 |
| Min             |          | 1.950   | 1.943    | -0.013 |
| Std Dev         |          | 0.022   | 0.023    | 0.006  |



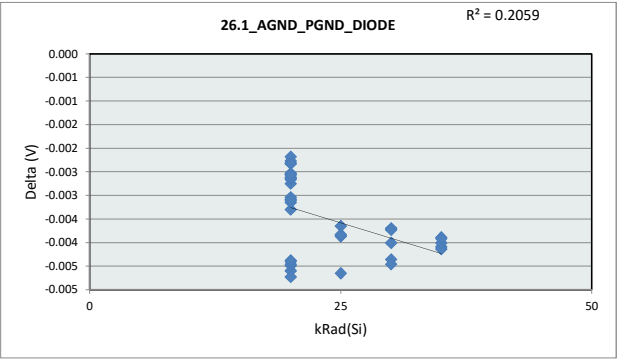
| 25.6_Iss@VIN12V |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| Test Site       |       |       |       |       |
| Tester          |       |       |       |       |
| Test Number     |       |       |       |       |
| Max Limit       | 2.199 | uA    |       |       |
| Min Limit       | 1.8   | uA    |       |       |
| kRad(Si)        | 20    | 25    | 30    | 35    |
| LL              | 1.800 | 1.800 | 1.800 | 1.800 |
| Min             | 1.948 | 1.979 | 1.943 | 1.954 |
| Average         | 1.983 | 1.997 | 1.975 | 1.978 |
| Max             | 2.033 | 2.010 | 1.995 | 2.010 |
| UL              | 2.199 | 2.199 | 2.199 | 2.199 |



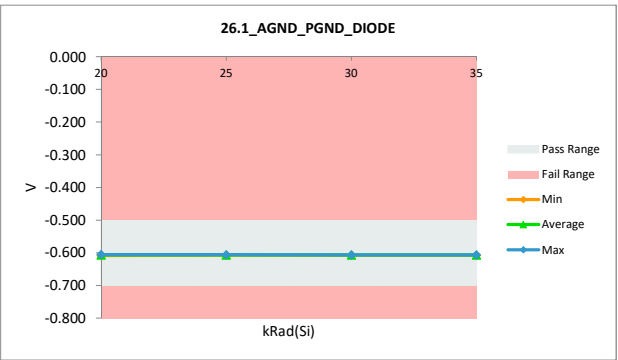
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.1_AGND_PGND_DIODE |          |         |          |        |
|----------------------|----------|---------|----------|--------|
| Test Site            |          |         |          |        |
| Tester               |          |         |          |        |
| Test Number          |          |         |          |        |
| Unit                 |          | V       | V        |        |
| Max Limit            |          | -0.5    | -0.5     |        |
| Min Limit            |          | -0.7    | -0.7     |        |
| kRad(Si)             | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                   | 61       | -0.603  | -0.607   | -0.005 |
| 20                   | 62       | -0.604  | -0.608   | -0.004 |
| 20                   | 63       | -0.603  | -0.608   | -0.004 |
| 20                   | 64       | -0.603  | -0.607   | -0.004 |
| 20                   | 65       | -0.603  | -0.608   | -0.005 |
| 20                   | 67       | -0.605  | -0.608   | -0.003 |
| 20                   | 68       | -0.603  | -0.606   | -0.003 |
| 20                   | 69       | -0.603  | -0.606   | -0.003 |
| 20                   | 70       | -0.602  | -0.605   | -0.003 |
| 20                   | 71       | -0.604  | -0.607   | -0.002 |
| 20                   | 72       | -0.603  | -0.605   | -0.002 |
| 20                   | 73       | -0.603  | -0.606   | -0.002 |
| 20                   | 74       | -0.604  | -0.606   | -0.002 |
| 20                   | 75       | -0.603  | -0.605   | -0.003 |
| 20                   | 76       | -0.604  | -0.606   | -0.003 |
| 20                   | 77       | -0.604  | -0.606   | -0.003 |
| 20                   | 78       | -0.603  | -0.605   | -0.003 |
| 20                   | 79       | -0.603  | -0.605   | -0.003 |
| 20                   | 80       | -0.602  | -0.605   | -0.003 |
| 20                   | 81       | -0.603  | -0.606   | -0.003 |
| 20                   | 82       | -0.604  | -0.607   | -0.003 |
| 20                   | 83       | -0.601  | -0.605   | -0.004 |
| 25                   | 84       | -0.601  | -0.606   | -0.005 |
| 25                   | 85       | -0.604  | -0.608   | -0.004 |
| 25                   | 86       | -0.602  | -0.606   | -0.004 |
| 25                   | 87       | -0.603  | -0.607   | -0.004 |
| 25                   | 88       | -0.602  | -0.606   | -0.004 |
| 30                   | 89       | -0.603  | -0.607   | -0.004 |
| 30                   | 90       | -0.603  | -0.607   | -0.004 |
| 30                   | 91       | -0.603  | -0.607   | -0.004 |
| 30                   | 92       | -0.603  | -0.607   | -0.004 |
| 30                   | 93       | -0.602  | -0.606   | -0.004 |
| 35                   | 94       | -0.602  | -0.606   | -0.004 |
| 35                   | 95       | -0.603  | -0.608   | -0.004 |
| 35                   | 96       | -0.603  | -0.607   | -0.004 |
| 35                   | 97       | -0.602  | -0.606   | -0.004 |
| 35                   | 98       | -0.604  | -0.607   | -0.004 |
| Max                  |          | -0.601  | -0.605   | -0.002 |
| Average              |          | -0.603  | -0.607   | -0.004 |
| Min                  |          | -0.605  | -0.608   | -0.005 |
| Std Dev              |          | 0.001   | 0.001    | 0.001  |



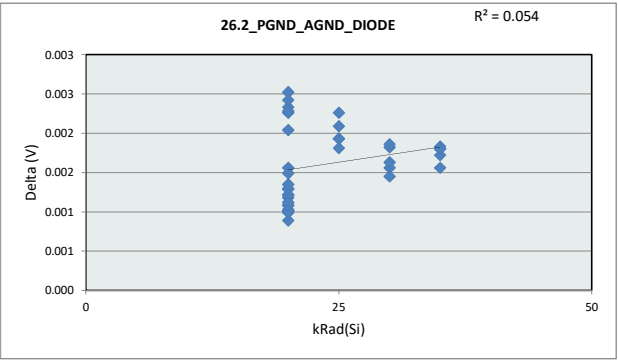
| 26.1_AGND_PGND_DIODE |        |        |        |        |
|----------------------|--------|--------|--------|--------|
| Test Site            |        |        |        |        |
| Tester               |        |        |        |        |
| Test Number          |        |        |        |        |
| Max Limit            |        | -0.5   | V      |        |
| Min Limit            |        | -0.7   | V      |        |
| kRad(Si)             | 20     | 25     | 30     | 35     |
| LL                   | -0.700 | -0.700 | -0.700 | -0.700 |
| Min                  | -0.608 | -0.608 | -0.607 | -0.608 |
| Average              | -0.606 | -0.606 | -0.607 | -0.607 |
| Max                  | -0.605 | -0.606 | -0.606 | -0.606 |
| UL                   | -0.500 | -0.500 | -0.500 | -0.500 |



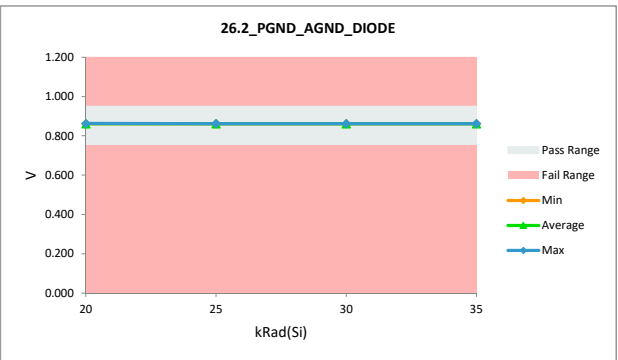
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.2_PGND_AGND_DIODE |          |         |          |       |
|----------------------|----------|---------|----------|-------|
| Test Site            |          |         |          |       |
| Tester               |          |         |          |       |
| Test Number          |          |         |          |       |
| Unit                 | V        | V       |          |       |
| Max Limit            | 0.95     | 0.95    |          |       |
| Min Limit            | 0.75     | 0.75    |          |       |
| kRad(Si)             | Serial # | Pre_HDR | Post_HDR | Delta |
| 20                   | 61       | 0.860   | 0.863    | 0.003 |
| 20                   | 62       | 0.860   | 0.863    | 0.002 |
| 20                   | 63       | 0.860   | 0.862    | 0.002 |
| 20                   | 64       | 0.860   | 0.863    | 0.002 |
| 20                   | 65       | 0.860   | 0.862    | 0.002 |
| 20                   | 67       | 0.861   | 0.862    | 0.002 |
| 20                   | 68       | 0.861   | 0.862    | 0.001 |
| 20                   | 69       | 0.861   | 0.862    | 0.001 |
| 20                   | 70       | 0.861   | 0.862    | 0.001 |
| 20                   | 71       | 0.861   | 0.862    | 0.001 |
| 20                   | 72       | 0.861   | 0.862    | 0.001 |
| 20                   | 73       | 0.860   | 0.862    | 0.001 |
| 20                   | 74       | 0.860   | 0.861    | 0.001 |
| 20                   | 75       | 0.861   | 0.862    | 0.001 |
| 20                   | 76       | 0.861   | 0.862    | 0.001 |
| 20                   | 77       | 0.861   | 0.862    | 0.001 |
| 20                   | 78       | 0.861   | 0.862    | 0.001 |
| 20                   | 79       | 0.861   | 0.862    | 0.001 |
| 20                   | 80       | 0.861   | 0.862    | 0.001 |
| 20                   | 81       | 0.861   | 0.862    | 0.001 |
| 20                   | 82       | 0.861   | 0.862    | 0.001 |
| 20                   | 83       | 0.860   | 0.862    | 0.002 |
| 25                   | 84       | 0.860   | 0.862    | 0.002 |
| 25                   | 85       | 0.860   | 0.862    | 0.002 |
| 25                   | 86       | 0.860   | 0.862    | 0.002 |
| 25                   | 87       | 0.860   | 0.862    | 0.002 |
| 25                   | 88       | 0.860   | 0.862    | 0.002 |
| 30                   | 89       | 0.860   | 0.862    | 0.002 |
| 30                   | 90       | 0.860   | 0.862    | 0.002 |
| 30                   | 91       | 0.860   | 0.862    | 0.002 |
| 30                   | 92       | 0.860   | 0.862    | 0.001 |
| 30                   | 93       | 0.860   | 0.862    | 0.002 |
| 35                   | 94       | 0.861   | 0.862    | 0.002 |
| 35                   | 95       | 0.860   | 0.862    | 0.002 |
| 35                   | 96       | 0.860   | 0.862    | 0.002 |
| 35                   | 97       | 0.860   | 0.862    | 0.002 |
| 35                   | 98       | 0.860   | 0.862    | 0.002 |
| Max                  |          | 0.861   | 0.863    | 0.003 |
| Average              |          | 0.860   | 0.862    | 0.002 |
| Min                  |          | 0.860   | 0.861    | 0.001 |
| Std Dev              |          | 0.000   | 0.000    | 0.000 |



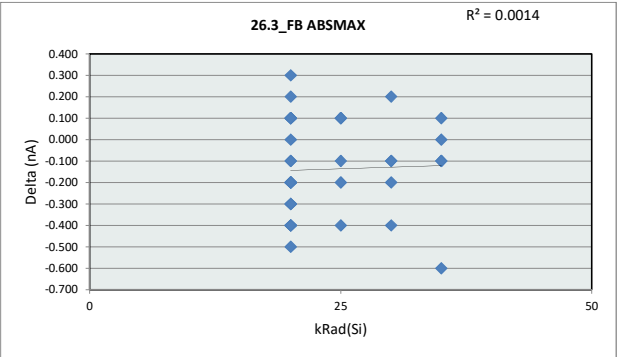
| 26.2_PGND_AGND_DIODE |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Test Site            |       |       |       |       |
| Tester               |       |       |       |       |
| Test Number          |       |       |       |       |
| Max Limit            | 0.95  | V     |       |       |
| Min Limit            | 0.75  | V     |       |       |
| kRad(Si)             | 20    | 25    | 30    | 35    |
| LL                   | 0.750 | 0.750 | 0.750 | 0.750 |
| Min                  | 0.861 | 0.862 | 0.862 | 0.862 |
| Average              | 0.862 | 0.862 | 0.862 | 0.862 |
| Max                  | 0.863 | 0.862 | 0.862 | 0.862 |
| UL                   | 0.950 | 0.950 | 0.950 | 0.950 |



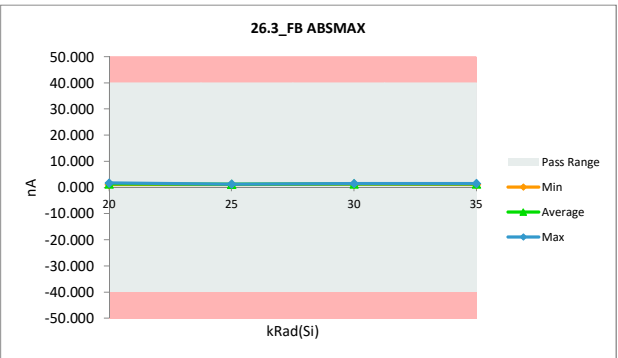
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.3_FB ABSMAX |          |         |          |        |
|----------------|----------|---------|----------|--------|
| Test Site      |          |         |          |        |
| Tester         |          |         |          |        |
| Test Number    |          |         |          |        |
| Unit           | nA       | nA      |          |        |
| Max Limit      | 40       | 40      |          |        |
| Min Limit      | -40      | -40     |          |        |
| kRad(Si)       | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20             | 61       | 1.500   | 1.100    | -0.400 |
| 20             | 62       | 1.300   | 1.100    | -0.200 |
| 20             | 63       | 1.300   | 1.400    | 0.100  |
| 20             | 64       | 1.700   | 1.300    | -0.400 |
| 20             | 65       | 1.200   | 1.500    | 0.300  |
| 20             | 67       | 1.700   | 1.700    | 0.000  |
| 20             | 68       | 1.600   | 1.500    | -0.100 |
| 20             | 69       | 1.300   | 1.400    | 0.100  |
| 20             | 70       | 1.400   | 1.200    | -0.200 |
| 20             | 71       | 1.300   | 1.400    | 0.100  |
| 20             | 72       | 1.300   | 1.200    | -0.100 |
| 20             | 73       | 1.600   | 1.100    | -0.500 |
| 20             | 74       | 1.500   | 1.200    | -0.300 |
| 20             | 75       | 1.700   | 1.300    | -0.400 |
| 20             | 76       | 1.600   | 1.400    | -0.200 |
| 20             | 77       | 1.600   | 1.200    | -0.400 |
| 20             | 78       | 1.400   | 1.200    | -0.200 |
| 20             | 79       | 1.700   | 1.400    | -0.300 |
| 20             | 80       | 1.600   | 1.300    | -0.300 |
| 20             | 81       | 1.400   | 1.500    | 0.100  |
| 20             | 82       | 1.300   | 1.500    | 0.200  |
| 20             | 83       | 1.500   | 1.300    | -0.200 |
| 25             | 84       | 1.500   | 1.100    | -0.400 |
| 25             | 85       | 1.200   | 1.300    | 0.100  |
| 25             | 86       | 1.300   | 1.200    | -0.100 |
| 25             | 87       | 1.100   | 1.200    | 0.100  |
| 25             | 88       | 1.500   | 1.300    | -0.200 |
| 30             | 89       | 1.600   | 1.500    | -0.100 |
| 30             | 90       | 1.300   | 1.500    | 0.200  |
| 30             | 91       | 1.400   | 1.300    | -0.100 |
| 30             | 92       | 1.400   | 1.200    | -0.200 |
| 30             | 93       | 1.800   | 1.400    | -0.400 |
| 35             | 94       | 1.700   | 1.100    | -0.600 |
| 35             | 95       | 1.400   | 1.500    | 0.100  |
| 35             | 96       | 1.300   | 1.200    | -0.100 |
| 35             | 97       | 1.400   | 1.300    | -0.100 |
| 35             | 98       | 1.500   | 1.500    | 0.000  |
| Max            |          | 1.800   | 1.700    | 0.300  |
| Average        |          | 1.457   | 1.319    | -0.138 |
| Min            |          | 1.100   | 1.100    | -0.600 |
| Std Dev        |          | 0.171   | 0.151    | 0.219  |



| 26.3_FB ABSMAX |         |         |         |         |
|----------------|---------|---------|---------|---------|
| Test Site      |         |         |         |         |
| Tester         |         |         |         |         |
| Test Number    |         |         |         |         |
| Max Limit      | 40      | nA      |         |         |
| Min Limit      | -40     | nA      |         |         |
| kRad(Si)       | 20      | 25      | 30      | 35      |
| LL             | -40.000 | -40.000 | -40.000 | -40.000 |
| Min            | 1.100   | 1.100   | 1.200   | 1.100   |
| Average        | 1.327   | 1.220   | 1.380   | 1.320   |
| Max            | 1.700   | 1.300   | 1.500   | 1.500   |
| UL             | 40.000  | 40.000  | 40.000  | 40.000  |

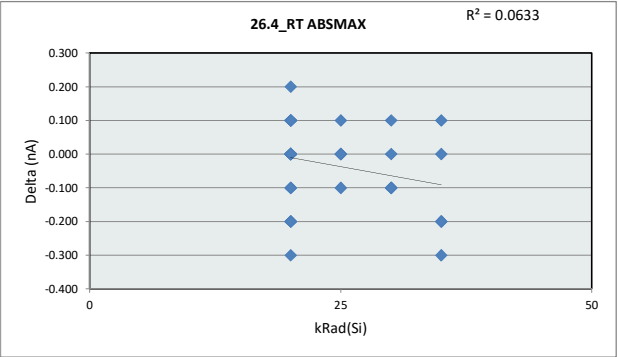




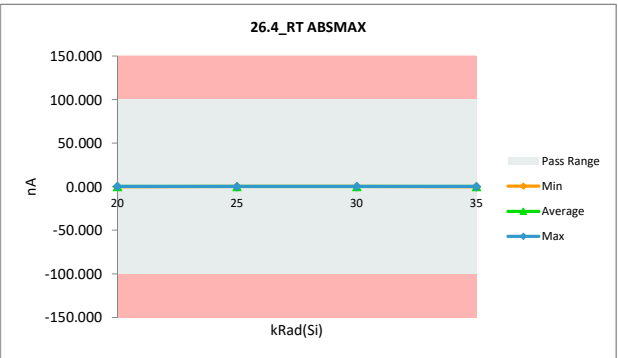
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.4_RT ABSMAX |          |         |          |        |
|----------------|----------|---------|----------|--------|
| Test Site      |          |         |          |        |
| Tester         |          |         |          |        |
| Test Number    |          |         |          |        |
| Unit           | nA       | nA      |          |        |
| Max Limit      | 100      | 100     |          |        |
| Min Limit      | -100     | -100    |          |        |
| kRad(Si)       | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20             | 61       | 0.100   | 0.100    | 0.000  |
| 20             | 62       | 0.100   | 0.100    | 0.000  |
| 20             | 63       | 0.300   | 0.300    | 0.000  |
| 20             | 64       | 0.200   | 0.000    | -0.200 |
| 20             | 65       | 0.300   | 0.300    | 0.000  |
| 20             | 67       | 0.100   | 0.300    | 0.200  |
| 20             | 68       | 0.200   | 0.100    | -0.100 |
| 20             | 69       | 0.200   | -0.100   | -0.300 |
| 20             | 70       | 0.000   | 0.000    | 0.000  |
| 20             | 71       | 0.200   | 0.200    | 0.000  |
| 20             | 72       | 0.100   | 0.100    | 0.000  |
| 20             | 73       | 0.300   | 0.200    | -0.100 |
| 20             | 74       | 0.100   | 0.100    | 0.000  |
| 20             | 75       | 0.100   | 0.200    | 0.100  |
| 20             | 76       | 0.100   | 0.200    | 0.100  |
| 20             | 77       | 0.200   | 0.000    | -0.200 |
| 20             | 78       | 0.200   | 0.200    | 0.000  |
| 20             | 79       | 0.400   | 0.400    | 0.000  |
| 20             | 80       | 0.000   | 0.100    | 0.100  |
| 20             | 81       | 0.200   | 0.000    | -0.200 |
| 20             | 82       | 0.200   | 0.300    | 0.100  |
| 20             | 83       | 0.100   | 0.200    | 0.100  |
| 25             | 84       | 0.200   | 0.100    | -0.100 |
| 25             | 85       | 0.100   | 0.100    | 0.000  |
| 25             | 86       | 0.100   | 0.200    | 0.100  |
| 25             | 87       | 0.200   | 0.200    | 0.000  |
| 25             | 88       | 0.100   | 0.100    | 0.000  |
| 30             | 89       | 0.200   | 0.300    | 0.100  |
| 30             | 90       | 0.200   | 0.100    | -0.100 |
| 30             | 91       | 0.100   | 0.000    | -0.100 |
| 30             | 92       | 0.100   | 0.000    | -0.100 |
| 30             | 93       | 0.100   | 0.100    | 0.000  |
| 35             | 94       | 0.200   | 0.000    | -0.200 |
| 35             | 95       | 0.300   | 0.000    | -0.300 |
| 35             | 96       | 0.200   | 0.000    | -0.200 |
| 35             | 97       | 0.100   | 0.200    | 0.100  |
| 35             | 98       | 0.100   | 0.100    | 0.000  |
| Max            |          | 0.400   | 0.400    | 0.200  |
| Average        |          | 0.162   | 0.130    | -0.032 |
| Min            |          | 0.000   | -0.100   | -0.300 |
| Std Dev        |          | 0.086   | 0.115    | 0.120  |



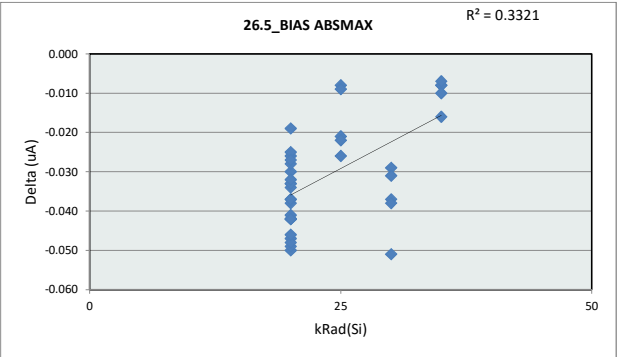
| 26.4_RT ABSMAX |          |          |          |          |
|----------------|----------|----------|----------|----------|
| Test Site      |          |          |          |          |
| Tester         |          |          |          |          |
| Test Number    |          |          |          |          |
| Max Limit      | 100      | nA       |          |          |
| Min Limit      | -100     | nA       |          |          |
| kRad(Si)       | 20       | 25       | 30       | 35       |
| LL             | -100.000 | -100.000 | -100.000 | -100.000 |
| Min            | -0.100   | 0.100    | 0.100    | 0.000    |
| Average        | 0.150    | 0.140    | 0.100    | 0.060    |
| Max            | 0.400    | 0.200    | 0.300    | 0.200    |
| UL             | 100.000  | 100.000  | 100.000  | 100.000  |



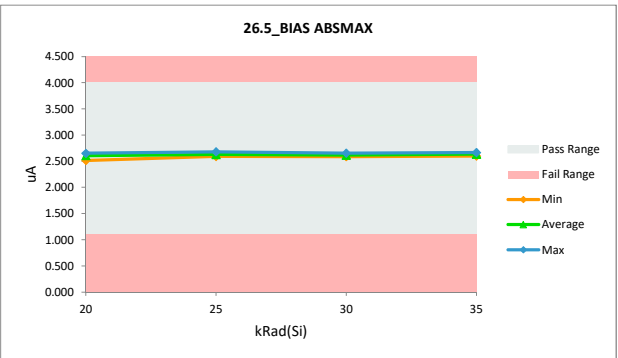
**HDR TID Report**  
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| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.5_BIAS ABSMAX |          |         |          |        |
|------------------|----------|---------|----------|--------|
| Test Site        |          |         |          |        |
| Tester           |          |         |          |        |
| Test Number      |          |         |          |        |
| Unit             | uA       | uA      |          |        |
| Max Limit        | 4        | 4       |          |        |
| Min Limit        | 1.1      | 1.1     |          |        |
| kRad(Si)         | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20               | 61       | 2.673   | 2.631    | -0.042 |
| 20               | 62       | 2.650   | 2.608    | -0.042 |
| 20               | 63       | 2.635   | 2.594    | -0.041 |
| 20               | 64       | 2.675   | 2.633    | -0.042 |
| 20               | 65       | 2.573   | 2.523    | -0.050 |
| 20               | 67       | 2.680   | 2.642    | -0.038 |
| 20               | 68       | 2.603   | 2.570    | -0.033 |
| 20               | 69       | 2.627   | 2.578    | -0.049 |
| 20               | 70       | 2.628   | 2.591    | -0.037 |
| 20               | 71       | 2.698   | 2.651    | -0.047 |
| 20               | 72       | 2.668   | 2.634    | -0.034 |
| 20               | 73       | 2.603   | 2.573    | -0.030 |
| 20               | 74       | 2.666   | 2.618    | -0.048 |
| 20               | 75       | 2.664   | 2.645    | -0.019 |
| 20               | 76       | 2.664   | 2.636    | -0.028 |
| 20               | 77       | 2.656   | 2.630    | -0.026 |
| 20               | 78       | 2.672   | 2.647    | -0.025 |
| 20               | 79       | 2.553   | 2.516    | -0.037 |
| 20               | 80       | 2.627   | 2.581    | -0.046 |
| 20               | 81       | 2.614   | 2.581    | -0.033 |
| 20               | 82       | 2.683   | 2.651    | -0.032 |
| 20               | 83       | 2.615   | 2.588    | -0.027 |
| 25               | 84       | 2.631   | 2.605    | -0.026 |
| 25               | 85       | 2.688   | 2.680    | -0.008 |
| 25               | 86       | 2.620   | 2.611    | -0.009 |
| 25               | 87       | 2.614   | 2.593    | -0.021 |
| 25               | 88       | 2.681   | 2.659    | -0.022 |
| 30               | 89       | 2.635   | 2.598    | -0.037 |
| 30               | 90       | 2.693   | 2.655    | -0.038 |
| 30               | 91       | 2.623   | 2.594    | -0.029 |
| 30               | 92       | 2.682   | 2.651    | -0.031 |
| 30               | 93       | 2.640   | 2.589    | -0.051 |
| 35               | 94       | 2.613   | 2.605    | -0.008 |
| 35               | 95       | 2.663   | 2.655    | -0.008 |
| 35               | 96       | 2.662   | 2.652    | -0.010 |
| 35               | 97       | 2.605   | 2.598    | -0.007 |
| 35               | 98       | 2.683   | 2.667    | -0.016 |
| Max              |          | 2.698   | 2.680    | -0.007 |
| Average          |          | 2.645   | 2.614    | -0.030 |
| Min              |          | 2.553   | 2.516    | -0.051 |
| Std Dev          |          | 0.035   | 0.038    | 0.013  |



| 26.5_BIAS ABSMAX |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        | 4     | uA    |       |       |
| Min Limit        | 1.1   | uA    |       |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 1.100 | 1.100 | 1.100 | 1.100 |
| Min              | 2.516 | 2.593 | 2.589 | 2.598 |
| Average          | 2.606 | 2.630 | 2.617 | 2.635 |
| Max              | 2.651 | 2.680 | 2.655 | 2.667 |
| UL               | 4.000 | 4.000 | 4.000 | 4.000 |

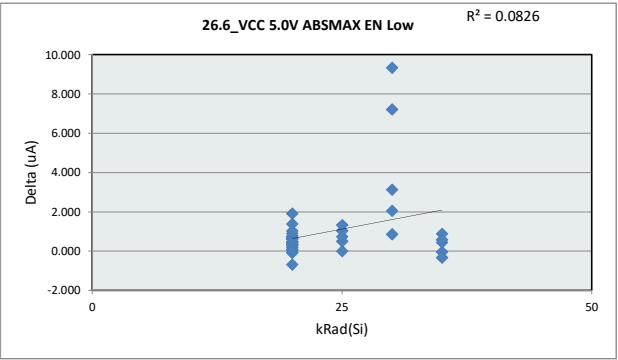


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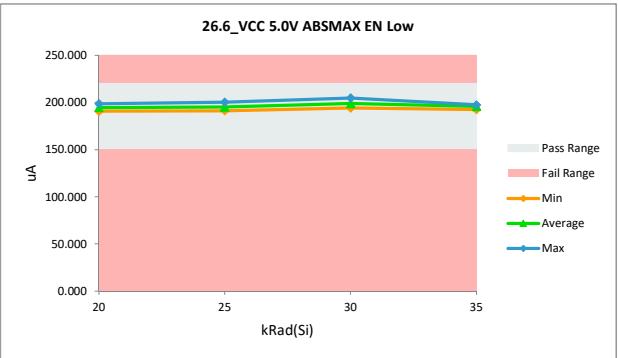
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.6_VCC 5.0V ABSMAX EN Low |     |     |
|-----------------------------|-----|-----|
| Test Site                   |     |     |
| Tester                      |     |     |
| Test Number                 |     |     |
| Unit                        | uA  | uA  |
| Max Limit                   | 220 | 220 |
| Min Limit                   | 150 | 150 |

| kRad(Si) | Serial # | Pre_HDR | Post_HDR | Delta  |
|----------|----------|---------|----------|--------|
| 20       | 61       | 193.147 | 193.848  | 0.701  |
| 20       | 62       | 192.920 | 193.598  | 0.678  |
| 20       | 63       | 193.216 | 193.523  | 0.307  |
| 20       | 64       | 196.089 | 196.846  | 0.757  |
| 20       | 65       | 194.645 | 195.290  | 0.645  |
| 20       | 67       | 192.507 | 193.890  | 1.383  |
| 20       | 68       | 192.905 | 193.798  | 0.893  |
| 20       | 69       | 195.074 | 195.675  | 0.601  |
| 20       | 70       | 191.838 | 191.755  | -0.083 |
| 20       | 71       | 196.133 | 198.050  | 1.917  |
| 20       | 72       | 194.212 | 194.581  | 0.369  |
| 20       | 73       | 194.345 | 195.368  | 1.023  |
| 20       | 74       | 194.167 | 193.483  | -0.684 |
| 20       | 75       | 194.758 | 194.800  | 0.042  |
| 20       | 76       | 191.804 | 192.282  | 0.478  |
| 20       | 77       | 190.884 | 190.801  | -0.083 |
| 20       | 78       | 198.152 | 198.613  | 0.461  |
| 20       | 79       | 192.730 | 193.038  | 0.308  |
| 20       | 80       | 195.978 | 196.166  | 0.188  |
| 20       | 81       | 195.661 | 195.942  | 0.281  |
| 20       | 82       | 191.982 | 192.065  | 0.083  |
| 20       | 83       | 195.862 | 196.310  | 0.448  |
| 25       | 84       | 193.975 | 193.973  | -0.002 |
| 25       | 85       | 196.393 | 197.719  | 1.326  |
| 25       | 86       | 190.207 | 191.239  | 1.032  |
| 25       | 87       | 192.068 | 192.565  | 0.497  |
| 25       | 88       | 199.588 | 200.314  | 0.726  |
| 30       | 89       | 196.859 | 198.911  | 2.052  |
| 30       | 90       | 193.415 | 194.276  | 0.861  |
| 30       | 91       | 195.381 | 204.702  | 9.321  |
| 30       | 92       | 197.600 | 200.722  | 3.122  |
| 30       | 93       | 188.291 | 195.493  | 7.202  |
| 35       | 94       | 191.691 | 192.564  | 0.873  |
| 35       | 95       | 194.153 | 194.114  | -0.039 |
| 35       | 96       | 197.081 | 197.514  | 0.433  |
| 35       | 97       | 196.952 | 197.531  | 0.579  |
| 35       | 98       | 197.719 | 197.390  | -0.329 |
| Max      |          | 199.588 | 204.702  | 9.321  |
| Average  |          | 194.335 | 195.372  | 1.037  |
| Min      |          | 188.291 | 190.801  | -0.684 |
| Std Dev  |          | 2.437   | 2.929    | 1.900  |



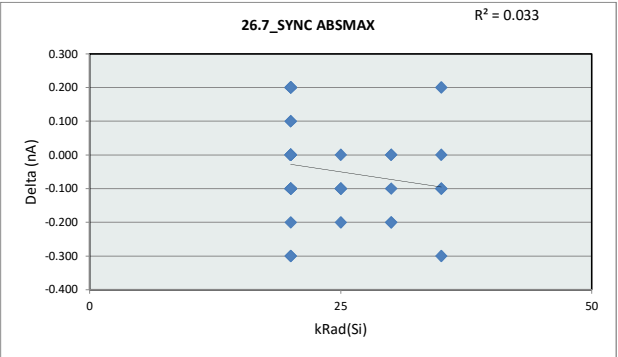
| 26.6_VCC 5.0V ABSMAX EN Low |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|
| Test Site                   |         |         |         |         |
| Tester                      |         |         |         |         |
| Test Number                 |         |         |         |         |
| Max Limit                   | 220     | uA      |         |         |
| Min Limit                   | 150     | uA      |         |         |
| kRad(Si)                    | 20      | 25      | 30      | 35      |
| LL                          | 150.000 | 150.000 | 150.000 | 150.000 |
| Min                         | 190.801 | 191.239 | 194.276 | 192.564 |
| Average                     | 194.533 | 195.162 | 198.821 | 195.823 |
| Max                         | 198.613 | 200.314 | 204.702 | 197.531 |
| UL                          | 220.000 | 220.000 | 220.000 | 220.000 |



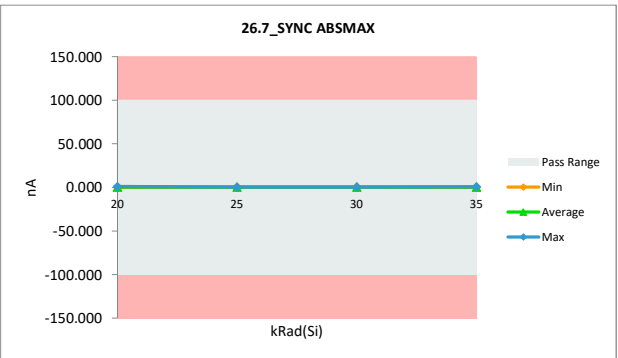
**HDR TID Report**  
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| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.7_SYNC ABSMAX |          |         |          |        |
|------------------|----------|---------|----------|--------|
| Test Site        |          |         |          |        |
| Tester           |          |         |          |        |
| Test Number      |          |         |          |        |
| Unit             | nA       | nA      |          |        |
| Max Limit        | 100      | 100     |          |        |
| Min Limit        | -100     | -100    |          |        |
| kRad(Si)         | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20               | 61       | 0.400   | 0.300    | -0.100 |
| 20               | 62       | 0.400   | 0.400    | 0.000  |
| 20               | 63       | 0.600   | 0.800    | 0.200  |
| 20               | 64       | 0.300   | 0.500    | 0.200  |
| 20               | 65       | 0.600   | 0.800    | 0.200  |
| 20               | 67       | 0.500   | 0.200    | -0.300 |
| 20               | 68       | 0.500   | 0.500    | 0.000  |
| 20               | 69       | 0.400   | 0.300    | -0.100 |
| 20               | 70       | 0.300   | 0.300    | 0.000  |
| 20               | 71       | 0.300   | 0.200    | -0.100 |
| 20               | 72       | 0.300   | 0.300    | 0.000  |
| 20               | 73       | 0.600   | 0.400    | -0.200 |
| 20               | 74       | 0.400   | 0.300    | -0.100 |
| 20               | 75       | 0.300   | 0.400    | 0.100  |
| 20               | 76       | 0.500   | 0.500    | 0.000  |
| 20               | 77       | 0.500   | 0.200    | -0.300 |
| 20               | 78       | 0.300   | 0.300    | 0.000  |
| 20               | 79       | 0.800   | 1.000    | 0.200  |
| 20               | 80       | 0.400   | 0.500    | 0.100  |
| 20               | 81       | 0.400   | 0.300    | -0.100 |
| 20               | 82       | 0.500   | 0.400    | -0.100 |
| 20               | 83       | 0.400   | 0.400    | 0.000  |
| 25               | 84       | 0.300   | 0.300    | 0.000  |
| 25               | 85       | 0.500   | 0.400    | -0.100 |
| 25               | 86       | 0.500   | 0.300    | -0.200 |
| 25               | 87       | 0.500   | 0.400    | -0.100 |
| 25               | 88       | 0.400   | 0.300    | -0.100 |
| 30               | 89       | 0.600   | 0.600    | 0.000  |
| 30               | 90       | 0.500   | 0.300    | -0.200 |
| 30               | 91       | 0.500   | 0.400    | -0.100 |
| 30               | 92       | 0.600   | 0.600    | 0.000  |
| 30               | 93       | 0.600   | 0.400    | -0.200 |
| 35               | 94       | 0.500   | 0.400    | -0.100 |
| 35               | 95       | 0.600   | 0.800    | 0.200  |
| 35               | 96       | 0.500   | 0.500    | 0.000  |
| 35               | 97       | 0.600   | 0.500    | -0.100 |
| 35               | 98       | 0.500   | 0.200    | -0.300 |
| Max              |          | 0.800   | 1.000    | 0.200  |
| Average          |          | 0.470   | 0.424    | -0.046 |
| Min              |          | 0.300   | 0.200    | -0.300 |
| Std Dev          |          | 0.118   | 0.185    | 0.139  |



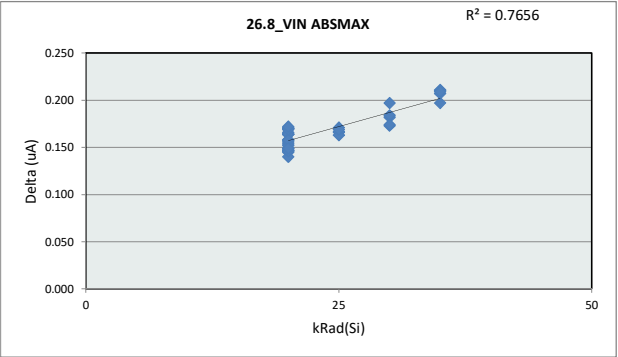
| 26.7_SYNC ABSMAX |          |          |          |          |
|------------------|----------|----------|----------|----------|
| Test Site        |          |          |          |          |
| Tester           |          |          |          |          |
| Test Number      |          |          |          |          |
| Max Limit        | 100      | nA       |          |          |
| Min Limit        | -100     | nA       |          |          |
| kRad(Si)         | 20       | 25       | 30       | 35       |
| LL               | -100.000 | -100.000 | -100.000 | -100.000 |
| Min              | 0.200    | 0.300    | 0.300    | 0.200    |
| Average          | 0.423    | 0.340    | 0.460    | 0.480    |
| Max              | 1.000    | 0.400    | 0.600    | 0.800    |
| UL               | 100.000  | 100.000  | 100.000  | 100.000  |



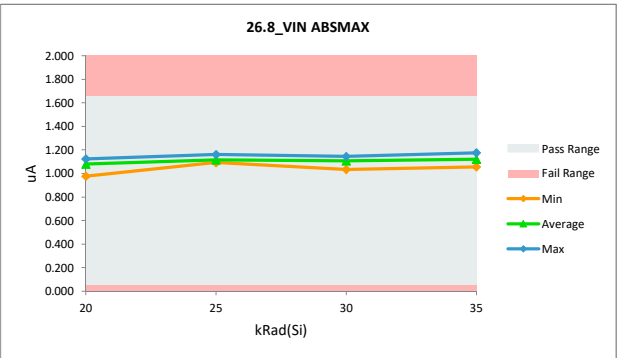
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**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.8_VIN ABSMAX |          |         |          |       |
|-----------------|----------|---------|----------|-------|
| Test Site       |          |         |          |       |
| Tester          |          |         |          |       |
| Test Number     |          |         |          |       |
| Unit            |          | uA      | uA       |       |
| Max Limit       |          | 1.65    | 1.65     |       |
| Min Limit       |          | 0.05    | 0.05     |       |
| kRad(Si)        | Serial # | Pre_HDR | Post_HDR | Delta |
| 20              | 61       | 0.942   | 1.108    | 0.166 |
| 20              | 62       | 0.819   | 0.977    | 0.158 |
| 20              | 63       | 0.857   | 1.013    | 0.156 |
| 20              | 64       | 0.941   | 1.105    | 0.164 |
| 20              | 65       | 0.968   | 1.113    | 0.145 |
| 20              | 67       | 0.914   | 1.084    | 0.170 |
| 20              | 68       | 0.960   | 1.109    | 0.149 |
| 20              | 69       | 0.949   | 1.103    | 0.154 |
| 20              | 70       | 0.925   | 1.077    | 0.152 |
| 20              | 71       | 0.918   | 1.089    | 0.171 |
| 20              | 72       | 0.946   | 1.116    | 0.170 |
| 20              | 73       | 0.977   | 1.124    | 0.147 |
| 20              | 74       | 0.893   | 1.057    | 0.164 |
| 20              | 75       | 0.913   | 1.077    | 0.164 |
| 20              | 76       | 0.864   | 1.034    | 0.170 |
| 20              | 77       | 0.838   | 0.996    | 0.158 |
| 20              | 78       | 0.923   | 1.092    | 0.169 |
| 20              | 79       | 0.973   | 1.113    | 0.140 |
| 20              | 80       | 0.951   | 1.098    | 0.147 |
| 20              | 81       | 0.957   | 1.103    | 0.146 |
| 20              | 82       | 0.911   | 1.083    | 0.172 |
| 20              | 83       | 0.945   | 1.094    | 0.149 |
| 25              | 84       | 0.923   | 1.094    | 0.171 |
| 25              | 85       | 0.926   | 1.093    | 0.167 |
| 25              | 86       | 0.995   | 1.161    | 0.166 |
| 25              | 87       | 0.971   | 1.134    | 0.163 |
| 25              | 88       | 0.932   | 1.101    | 0.169 |
| 30              | 89       | 0.852   | 1.034    | 0.182 |
| 30              | 90       | 0.943   | 1.140    | 0.197 |
| 30              | 91       | 0.972   | 1.145    | 0.173 |
| 30              | 92       | 0.906   | 1.090    | 0.184 |
| 30              | 93       | 0.958   | 1.132    | 0.174 |
| 35              | 94       | 0.947   | 1.158    | 0.211 |
| 35              | 95       | 0.850   | 1.057    | 0.207 |
| 35              | 96       | 0.885   | 1.082    | 0.197 |
| 35              | 97       | 0.966   | 1.176    | 0.210 |
| 35              | 98       | 0.923   | 1.132    | 0.209 |
| Max             |          | 0.995   | 1.176    | 0.211 |
| Average         |          | 0.925   | 1.094    | 0.169 |
| Min             |          | 0.819   | 0.977    | 0.140 |
| Std Dev         |          | 0.043   | 0.044    | 0.019 |



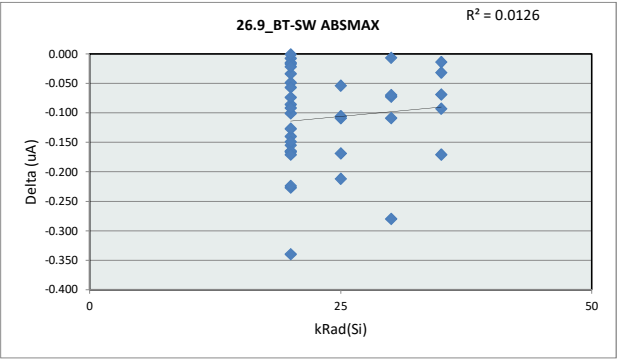
|             | 26.8_VIN ABSMAX |       |       |       |
|-------------|-----------------|-------|-------|-------|
| Test Site   |                 |       |       |       |
| Tester      |                 |       |       |       |
| Test Number |                 |       |       |       |
| Max Limit   | 1.65            | uA    |       |       |
| Min Limit   | 0.05            | uA    |       |       |
| kRad(Si)    | 20              | 25    | 30    | 35    |
| LL          | 0.050           | 0.050 | 0.050 | 0.050 |
| Min         | 0.977           | 1.093 | 1.034 | 1.057 |
| Average     | 1.080           | 1.117 | 1.108 | 1.121 |
| Max         | 1.124           | 1.161 | 1.145 | 1.176 |
| UL          | 1.650           | 1.650 | 1.650 | 1.650 |



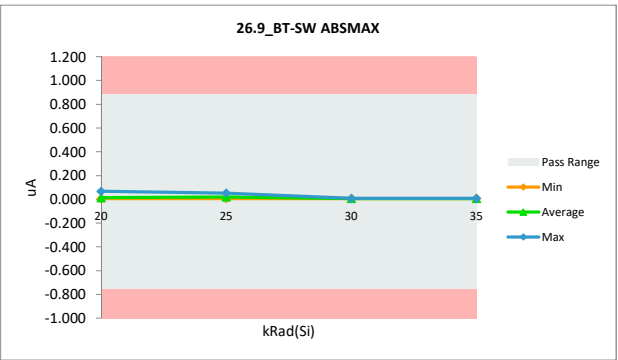
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| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.9_BT-SW ABSMAX |          |         |          |        |
|-------------------|----------|---------|----------|--------|
| Test Site         |          |         |          |        |
| Tester            |          |         |          |        |
| Test Number       |          |         |          |        |
| Unit              | uA       | uA      |          |        |
| Max Limit         | 0.88     | 0.88    |          |        |
| Min Limit         | -0.75    | -0.75   |          |        |
| kRad(Si)          | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                | 61       | 0.266   | 0.039    | -0.227 |
| 20                | 62       | 0.022   | 0.007    | -0.015 |
| 20                | 63       | 0.016   | 0.008    | -0.008 |
| 20                | 64       | 0.055   | 0.006    | -0.049 |
| 20                | 65       | 0.041   | 0.007    | -0.034 |
| 20                | 67       | 0.154   | 0.014    | -0.140 |
| 20                | 68       | 0.177   | 0.011    | -0.166 |
| 20                | 69       | 0.385   | 0.045    | -0.340 |
| 20                | 70       | 0.291   | 0.067    | -0.224 |
| 20                | 71       | 0.135   | 0.008    | -0.127 |
| 20                | 72       | 0.165   | 0.010    | -0.155 |
| 20                | 73       | 0.064   | 0.007    | -0.057 |
| 20                | 74       | 0.024   | 0.007    | -0.017 |
| 20                | 75       | 0.093   | 0.007    | -0.086 |
| 20                | 76       | 0.080   | 0.006    | -0.074 |
| 20                | 77       | 0.029   | 0.007    | -0.022 |
| 20                | 78       | 0.111   | 0.010    | -0.101 |
| 20                | 79       | 0.008   | 0.007    | -0.001 |
| 20                | 80       | 0.175   | 0.010    | -0.165 |
| 20                | 81       | 0.187   | 0.016    | -0.171 |
| 20                | 82       | 0.101   | 0.009    | -0.092 |
| 20                | 83       | 0.158   | 0.009    | -0.149 |
| 25                | 84       | 0.183   | 0.014    | -0.169 |
| 25                | 85       | 0.061   | 0.007    | -0.054 |
| 25                | 86       | 0.120   | 0.011    | -0.109 |
| 25                | 87       | 0.121   | 0.015    | -0.106 |
| 25                | 88       | 0.264   | 0.052    | -0.212 |
| 30                | 89       | 0.015   | 0.008    | -0.007 |
| 30                | 90       | 0.080   | 0.007    | -0.073 |
| 30                | 91       | 0.077   | 0.007    | -0.070 |
| 30                | 92       | 0.117   | 0.008    | -0.109 |
| 30                | 93       | 0.287   | 0.007    | -0.280 |
| 35                | 94       | 0.179   | 0.008    | -0.171 |
| 35                | 95       | 0.022   | 0.008    | -0.014 |
| 35                | 96       | 0.100   | 0.007    | -0.093 |
| 35                | 97       | 0.076   | 0.007    | -0.069 |
| 35                | 98       | 0.039   | 0.007    | -0.032 |
| Max               |          | 0.385   | 0.067    | -0.001 |
| Average           |          | 0.121   | 0.013    | -0.108 |
| Min               |          | 0.008   | 0.006    | -0.340 |
| Std Dev           |          | 0.091   | 0.014    | 0.081  |



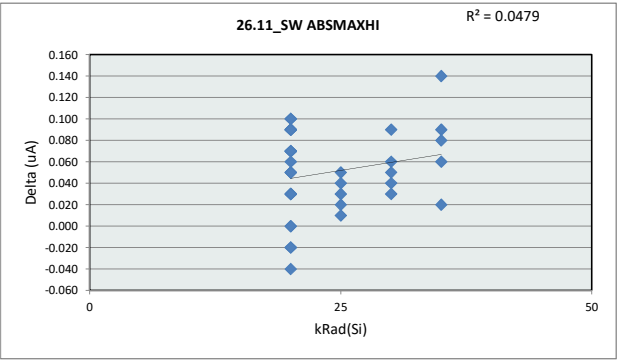
| 26.9_BT-SW ABSMAX |        |        |        |        |
|-------------------|--------|--------|--------|--------|
| Test Site         |        |        |        |        |
| Tester            |        |        |        |        |
| Test Number       |        |        |        |        |
| Max Limit         | 0.88   | uA     |        |        |
| Min Limit         | -0.75  | uA     |        |        |
| kRad(Si)          | 20     | 25     | 30     | 35     |
| LL                | -0.750 | -0.750 | -0.750 | -0.750 |
| Min               | 0.006  | 0.007  | 0.007  | 0.007  |
| Average           | 0.014  | 0.020  | 0.007  | 0.007  |
| Max               | 0.067  | 0.052  | 0.008  | 0.008  |
| UL                | 0.880  | 0.880  | 0.880  | 0.880  |



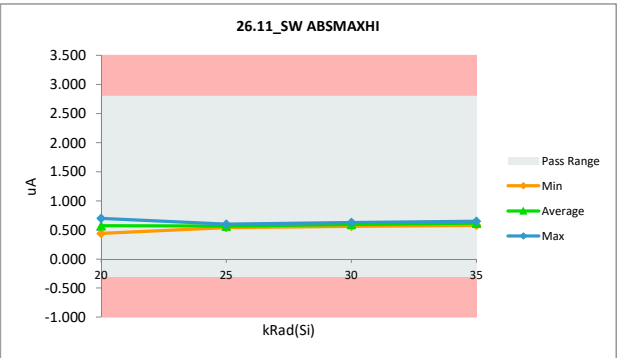
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.11_SW ABSMAXHI |          |         |          |        |
|-------------------|----------|---------|----------|--------|
| Test Site         |          |         |          |        |
| Tester            |          |         |          |        |
| Test Number       |          |         |          |        |
| Unit              | uA       | uA      |          |        |
| Max Limit         | 2.8      | 2.8     |          |        |
| Min Limit         | -0.3     | -0.3    |          |        |
| kRad(Si)          | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                | 61       | 0.620   | 0.600    | -0.020 |
| 20                | 62       | 0.490   | 0.520    | 0.030  |
| 20                | 63       | 0.540   | 0.500    | -0.040 |
| 20                | 64       | 0.440   | 0.440    | 0.000  |
| 20                | 65       | 0.590   | 0.620    | 0.030  |
| 20                | 67       | 0.510   | 0.580    | 0.070  |
| 20                | 68       | 0.480   | 0.550    | 0.070  |
| 20                | 69       | 0.540   | 0.610    | 0.070  |
| 20                | 70       | 0.470   | 0.540    | 0.070  |
| 20                | 71       | 0.470   | 0.560    | 0.090  |
| 20                | 72       | 0.570   | 0.620    | 0.050  |
| 20                | 73       | 0.540   | 0.520    | -0.020 |
| 20                | 74       | 0.610   | 0.700    | 0.090  |
| 20                | 75       | 0.550   | 0.650    | 0.100  |
| 20                | 76       | 0.470   | 0.560    | 0.090  |
| 20                | 77       | 0.510   | 0.570    | 0.060  |
| 20                | 78       | 0.490   | 0.540    | 0.050  |
| 20                | 79       | 0.540   | 0.640    | 0.100  |
| 20                | 80       | 0.510   | 0.560    | 0.050  |
| 20                | 81       | 0.490   | 0.580    | 0.090  |
| 20                | 82       | 0.510   | 0.540    | 0.030  |
| 20                | 83       | 0.570   | 0.570    | 0.000  |
| 25                | 84       | 0.530   | 0.540    | 0.010  |
| 25                | 85       | 0.510   | 0.540    | 0.030  |
| 25                | 86       | 0.520   | 0.570    | 0.050  |
| 25                | 87       | 0.540   | 0.580    | 0.040  |
| 25                | 88       | 0.580   | 0.600    | 0.020  |
| 30                | 89       | 0.570   | 0.610    | 0.040  |
| 30                | 90       | 0.600   | 0.630    | 0.030  |
| 30                | 91       | 0.530   | 0.580    | 0.050  |
| 30                | 92       | 0.470   | 0.560    | 0.090  |
| 30                | 93       | 0.530   | 0.590    | 0.060  |
| 35                | 94       | 0.470   | 0.610    | 0.140  |
| 35                | 95       | 0.520   | 0.610    | 0.090  |
| 35                | 96       | 0.580   | 0.640    | 0.060  |
| 35                | 97       | 0.570   | 0.650    | 0.080  |
| 35                | 98       | 0.560   | 0.580    | 0.020  |
| Max               |          | 0.620   | 0.700    | 0.140  |
| Average           |          | 0.529   | 0.580    | 0.051  |
| Min               |          | 0.440   | 0.440    | -0.040 |
| Std Dev           |          | 0.045   | 0.049    | 0.039  |



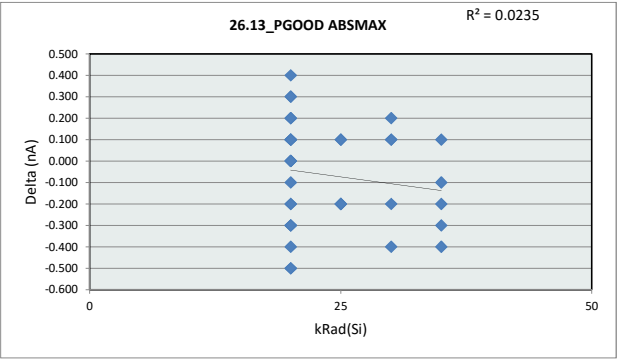
| 26.11_SW ABSMAXHI |        |        |        |        |
|-------------------|--------|--------|--------|--------|
| Test Site         |        |        |        |        |
| Tester            |        |        |        |        |
| Test Number       |        |        |        |        |
| Max Limit         | 2.8    | uA     |        |        |
| Min Limit         | -0.3   | uA     |        |        |
| kRad(Si)          | 20     | 25     | 30     | 35     |
| LL                | -0.300 | -0.300 | -0.300 | -0.300 |
| Min               | 0.440  | 0.540  | 0.560  | 0.580  |
| Average           | 0.571  | 0.566  | 0.594  | 0.618  |
| Max               | 0.700  | 0.600  | 0.630  | 0.650  |
| UL                | 2.800  | 2.800  | 2.800  | 2.800  |



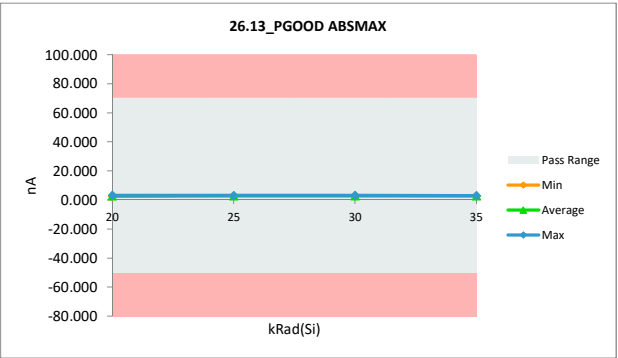
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.13_PGOOD ABSMAX |          |         |          |        |
|--------------------|----------|---------|----------|--------|
| Test Site          |          |         |          |        |
| Tester             |          |         |          |        |
| Test Number        |          |         |          |        |
| Unit               | nA       | nA      |          |        |
| Max Limit          | 70       | 70      |          |        |
| Min Limit          | -50      | -50     |          |        |
| kRad(Si)           | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                 | 61       | 2.700   | 2.700    | 0.000  |
| 20                 | 62       | 3.000   | 2.800    | -0.200 |
| 20                 | 63       | 3.100   | 2.800    | -0.300 |
| 20                 | 64       | 3.000   | 2.700    | -0.300 |
| 20                 | 65       | 3.000   | 2.700    | -0.300 |
| 20                 | 67       | 2.800   | 3.000    | 0.200  |
| 20                 | 68       | 3.000   | 3.000    | 0.000  |
| 20                 | 69       | 3.100   | 3.000    | -0.100 |
| 20                 | 70       | 2.700   | 2.700    | 0.000  |
| 20                 | 71       | 3.000   | 2.800    | -0.200 |
| 20                 | 72       | 2.700   | 2.900    | 0.200  |
| 20                 | 73       | 3.100   | 2.600    | -0.500 |
| 20                 | 74       | 3.000   | 3.100    | 0.100  |
| 20                 | 75       | 2.800   | 2.900    | 0.100  |
| 20                 | 76       | 2.900   | 3.000    | 0.100  |
| 20                 | 77       | 3.000   | 2.600    | -0.400 |
| 20                 | 78       | 2.900   | 3.000    | 0.100  |
| 20                 | 79       | 2.600   | 2.600    | 0.000  |
| 20                 | 80       | 2.700   | 3.100    | 0.400  |
| 20                 | 81       | 2.900   | 3.200    | 0.300  |
| 20                 | 82       | 2.700   | 3.000    | 0.300  |
| 20                 | 83       | 3.100   | 2.600    | -0.500 |
| 25                 | 84       | 2.900   | 2.700    | -0.200 |
| 25                 | 85       | 3.200   | 3.000    | -0.200 |
| 25                 | 86       | 2.800   | 2.900    | 0.100  |
| 25                 | 87       | 2.900   | 2.700    | -0.200 |
| 25                 | 88       | 3.000   | 3.100    | 0.100  |
| 30                 | 89       | 3.100   | 3.200    | 0.100  |
| 30                 | 90       | 3.100   | 2.900    | -0.200 |
| 30                 | 91       | 2.900   | 3.100    | 0.200  |
| 30                 | 92       | 2.800   | 2.900    | 0.100  |
| 30                 | 93       | 3.200   | 2.800    | -0.400 |
| 35                 | 94       | 2.800   | 2.900    | 0.100  |
| 35                 | 95       | 3.100   | 2.900    | -0.200 |
| 35                 | 96       | 3.100   | 2.700    | -0.400 |
| 35                 | 97       | 3.100   | 3.000    | -0.100 |
| 35                 | 98       | 3.200   | 2.900    | -0.300 |
| Max                |          | 3.200   | 3.200    | 0.400  |
| Average            |          | 2.946   | 2.878    | -0.068 |
| Min                |          | 2.600   | 2.600    | -0.500 |
| Std Dev            |          | 0.164   | 0.173    | 0.237  |



| 26.13_PGOOD ABSMAX |         |         |         |         |
|--------------------|---------|---------|---------|---------|
| Test Site          |         |         |         |         |
| Tester             |         |         |         |         |
| Test Number        |         |         |         |         |
| Max Limit          | 70      | nA      |         |         |
| Min Limit          | -50     | nA      |         |         |
| kRad(Si)           | 20      | 25      | 30      | 35      |
| LL                 | -50.000 | -50.000 | -50.000 | -50.000 |
| Min                | 2.600   | 2.700   | 2.800   | 2.700   |
| Average            | 2.855   | 2.880   | 2.980   | 2.880   |
| Max                | 3.200   | 3.100   | 3.200   | 3.000   |
| UL                 | 70.000  | 70.000  | 70.000  | 70.000  |

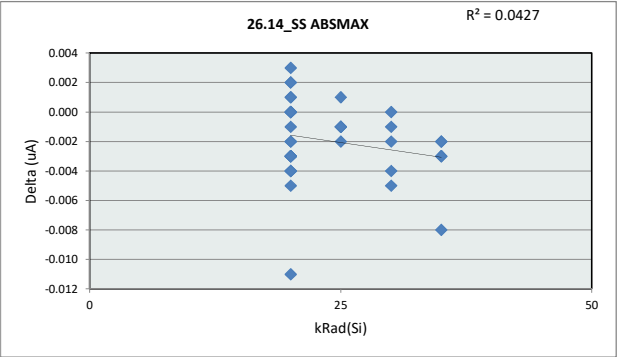




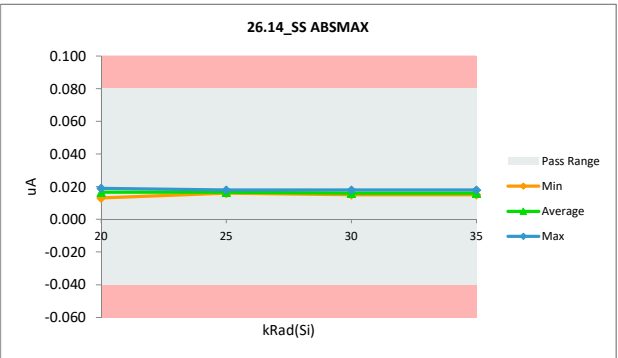
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.14_SS ABSMAX |          |         |          |        |
|-----------------|----------|---------|----------|--------|
| Test Site       |          |         |          |        |
| Tester          |          |         |          |        |
| Test Number     |          |         |          |        |
| Unit            | uA       | uA      |          |        |
| Max Limit       | 0.08     | 0.08    |          |        |
| Min Limit       | -0.04    | -0.04   |          |        |
| kRad(Si)        | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20              | 61       | 0.017   | 0.017    | 0.000  |
| 20              | 62       | 0.028   | 0.017    | -0.011 |
| 20              | 63       | 0.019   | 0.017    | -0.002 |
| 20              | 64       | 0.018   | 0.016    | -0.002 |
| 20              | 65       | 0.019   | 0.016    | -0.003 |
| 20              | 67       | 0.019   | 0.018    | -0.001 |
| 20              | 68       | 0.019   | 0.015    | -0.004 |
| 20              | 69       | 0.014   | 0.015    | 0.001  |
| 20              | 70       | 0.018   | 0.018    | 0.000  |
| 20              | 71       | 0.016   | 0.019    | 0.003  |
| 20              | 72       | 0.019   | 0.015    | -0.004 |
| 20              | 73       | 0.020   | 0.017    | -0.003 |
| 20              | 74       | 0.016   | 0.018    | 0.002  |
| 20              | 75       | 0.017   | 0.019    | 0.002  |
| 20              | 76       | 0.016   | 0.016    | 0.000  |
| 20              | 77       | 0.017   | 0.017    | 0.000  |
| 20              | 78       | 0.020   | 0.017    | -0.003 |
| 20              | 79       | 0.020   | 0.017    | -0.003 |
| 20              | 80       | 0.016   | 0.013    | -0.003 |
| 20              | 81       | 0.019   | 0.015    | -0.004 |
| 20              | 82       | 0.020   | 0.015    | -0.005 |
| 20              | 83       | 0.017   | 0.018    | 0.001  |
| 25              | 84       | 0.017   | 0.018    | 0.001  |
| 25              | 85       | 0.018   | 0.016    | -0.002 |
| 25              | 86       | 0.017   | 0.016    | -0.001 |
| 25              | 87       | 0.018   | 0.017    | -0.001 |
| 25              | 88       | 0.017   | 0.016    | -0.001 |
| 30              | 89       | 0.020   | 0.015    | -0.005 |
| 30              | 90       | 0.020   | 0.016    | -0.004 |
| 30              | 91       | 0.020   | 0.018    | -0.002 |
| 30              | 92       | 0.017   | 0.016    | -0.001 |
| 30              | 93       | 0.015   | 0.015    | 0.000  |
| 35              | 94       | 0.017   | 0.015    | -0.002 |
| 35              | 95       | 0.024   | 0.016    | -0.008 |
| 35              | 96       | 0.018   | 0.015    | -0.003 |
| 35              | 97       | 0.020   | 0.018    | -0.002 |
| 35              | 98       | 0.019   | 0.016    | -0.003 |
| Max             |          | 0.028   | 0.019    | 0.003  |
| Average         |          | 0.018   | 0.016    | -0.002 |
| Min             |          | 0.014   | 0.013    | -0.011 |
| Std Dev         |          | 0.002   | 0.001    | 0.003  |



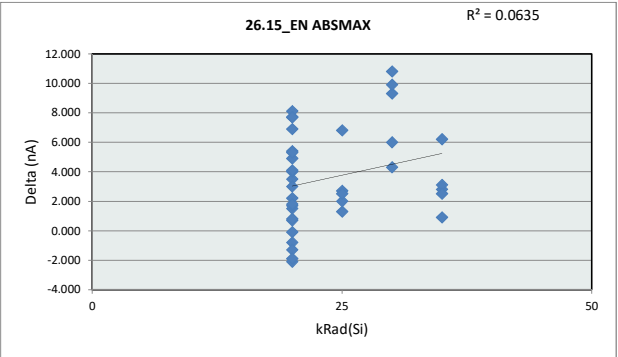
| 26.14_SS ABSMAX |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Test Site       |        |        |        |        |
| Tester          |        |        |        |        |
| Test Number     |        |        |        |        |
| Max Limit       | 0.08   | uA     |        |        |
| Min Limit       | -0.04  | uA     |        |        |
| kRad(Si)        | 20     | 25     | 30     | 35     |
| LL              | -0.040 | -0.040 | -0.040 | -0.040 |
| Min             | 0.013  | 0.016  | 0.015  | 0.015  |
| Average         | 0.017  | 0.017  | 0.016  | 0.016  |
| Max             | 0.019  | 0.018  | 0.018  | 0.018  |
| UL              | 0.080  | 0.080  | 0.080  | 0.080  |



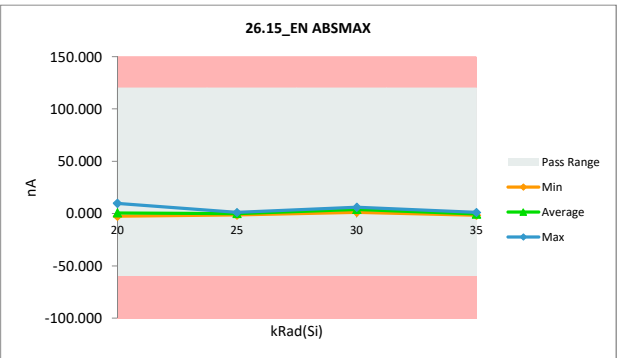
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.15_EN ABSMAX |          |         |          |        |
|-----------------|----------|---------|----------|--------|
| Test Site       |          |         |          |        |
| Tester          |          |         |          |        |
| Test Number     |          |         |          |        |
| Unit            | nA       | nA      |          |        |
| Max Limit       | 120      | 120     |          |        |
| Min Limit       | -60      | -60     |          |        |
| kRad(Si)        | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20              | 61       | -3.500  | 1.900    | 5.400  |
| 20              | 62       | -1.300  | -0.600   | 0.700  |
| 20              | 63       | -3.100  | 0.400    | 3.500  |
| 20              | 64       | -3.100  | -0.900   | 2.200  |
| 20              | 65       | -2.900  | 4.000    | 6.900  |
| 20              | 67       | -0.600  | -0.700   | -0.100 |
| 20              | 68       | -3.200  | 1.700    | 4.900  |
| 20              | 69       | -3.700  | -0.700   | 3.000  |
| 20              | 70       | -3.600  | 0.400    | 4.000  |
| 20              | 71       | -4.000  | -2.500   | 1.500  |
| 20              | 72       | -3.300  | -1.600   | 1.700  |
| 20              | 73       | 0.100   | -0.700   | -0.800 |
| 20              | 74       | -1.400  | 0.400    | 1.800  |
| 20              | 75       | -0.300  | -1.600   | -1.300 |
| 20              | 76       | -2.000  | 3.300    | 5.300  |
| 20              | 77       | -4.000  | 3.700    | 7.700  |
| 20              | 78       | 0.300   | -1.800   | -2.100 |
| 20              | 79       | 1.800   | 9.900    | 8.100  |
| 20              | 80       | -3.600  | 0.500    | 4.100  |
| 20              | 81       | -3.400  | 4.300    | 7.700  |
| 20              | 82       | 0.100   | -1.800   | -1.900 |
| 20              | 83       | -2.700  | -1.900   | 0.800  |
| 25              | 84       | -6.000  | 0.800    | 6.800  |
| 25              | 85       | -2.000  | -0.700   | 1.300  |
| 25              | 86       | -1.600  | 1.100    | 2.700  |
| 25              | 87       | -3.400  | -1.400   | 2.000  |
| 25              | 88       | -1.800  | 0.700    | 2.500  |
| 30              | 89       | -5.100  | 5.700    | 10.800 |
| 30              | 90       | -4.000  | 5.300    | 9.300  |
| 30              | 91       | -4.000  | 2.000    | 6.000  |
| 30              | 92       | -3.100  | 1.200    | 4.300  |
| 30              | 93       | -3.900  | 6.000    | 9.900  |
| 35              | 94       | -5.100  | 1.100    | 6.200  |
| 35              | 95       | -3.700  | -0.900   | 2.800  |
| 35              | 96       | -2.900  | 0.200    | 3.100  |
| 35              | 97       | -4.000  | -1.500   | 2.500  |
| 35              | 98       | -1.700  | -0.800   | 0.900  |
| Max             |          | 1.800   | 9.900    | 10.800 |
| Average         |          | -2.695  | 0.932    | 3.627  |
| Min             |          | -6.000  | -2.500   | -2.100 |
| Std Dev         |          | 1.679   | 2.728    | 3.288  |



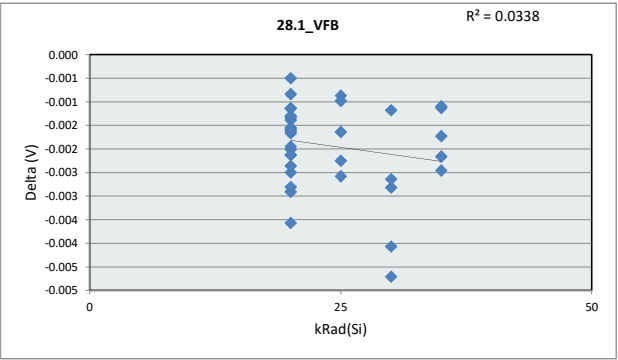
| 26.15_EN ABSMAX |         |         |         |         |
|-----------------|---------|---------|---------|---------|
| Test Site       |         |         |         |         |
| Tester          |         |         |         |         |
| Test Number     |         |         |         |         |
| Max Limit       | 120     | nA      |         |         |
| Min Limit       | -60     | nA      |         |         |
| kRad(Si)        | 20      | 25      | 30      | 35      |
| LL              | -60.000 | -60.000 | -60.000 | -60.000 |
| Min             | -2.500  | -1.400  | 1.200   | -1.500  |
| Average         | 0.714   | 0.100   | 4.040   | -0.380  |
| Max             | 9.900   | 1.100   | 6.000   | 1.100   |
| UL              | 120.000 | 120.000 | 120.000 | 120.000 |



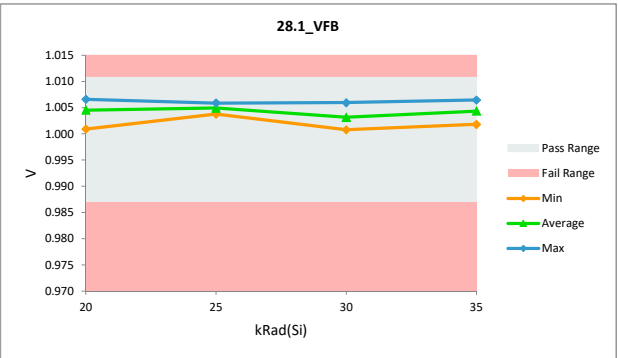
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 28.1_VFB    |          |         |          |        |
|-------------|----------|---------|----------|--------|
| Test Site   |          |         |          |        |
| Tester      |          |         |          |        |
| Test Number |          |         |          |        |
| Unit        |          | V       | V        |        |
| Max Limit   |          | 1.0108  | 1.0108   |        |
| Min Limit   |          | 0.987   | 0.987    |        |
| kRad(Si)    | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20          | 61       | 1.007   | 1.005    | -0.002 |
| 20          | 62       | 1.006   | 1.003    | -0.003 |
| 20          | 63       | 1.006   | 1.005    | -0.001 |
| 20          | 64       | 1.004   | 1.002    | -0.002 |
| 20          | 65       | 1.007   | 1.006    | 0.000  |
| 20          | 67       | 1.007   | 1.005    | -0.002 |
| 20          | 68       | 1.007   | 1.005    | -0.002 |
| 20          | 69       | 1.007   | 1.006    | -0.001 |
| 20          | 70       | 1.005   | 1.004    | -0.001 |
| 20          | 71       | 1.007   | 1.005    | -0.002 |
| 20          | 72       | 1.006   | 1.004    | -0.002 |
| 20          | 73       | 1.005   | 1.004    | -0.001 |
| 20          | 74       | 1.005   | 1.001    | -0.004 |
| 20          | 75       | 1.008   | 1.005    | -0.003 |
| 20          | 76       | 1.007   | 1.005    | -0.002 |
| 20          | 77       | 1.006   | 1.004    | -0.002 |
| 20          | 78       | 1.007   | 1.005    | -0.001 |
| 20          | 79       | 1.006   | 1.003    | -0.003 |
| 20          | 80       | 1.007   | 1.006    | -0.001 |
| 20          | 81       | 1.008   | 1.007    | -0.002 |
| 20          | 82       | 1.005   | 1.003    | -0.002 |
| 20          | 83       | 1.007   | 1.006    | -0.001 |
| 25          | 84       | 1.007   | 1.006    | -0.001 |
| 25          | 85       | 1.007   | 1.005    | -0.003 |
| 25          | 86       | 1.005   | 1.004    | -0.001 |
| 25          | 87       | 1.007   | 1.006    | -0.002 |
| 25          | 88       | 1.007   | 1.005    | -0.002 |
| 30          | 89       | 1.007   | 1.005    | -0.003 |
| 30          | 90       | 1.005   | 1.001    | -0.004 |
| 30          | 91       | 1.006   | 1.004    | -0.003 |
| 30          | 92       | 1.006   | 1.001    | -0.005 |
| 30          | 93       | 1.007   | 1.006    | -0.001 |
| 35          | 94       | 1.004   | 1.002    | -0.002 |
| 35          | 95       | 1.007   | 1.006    | -0.001 |
| 35          | 96       | 1.008   | 1.006    | -0.001 |
| 35          | 97       | 1.005   | 1.004    | -0.002 |
| 35          | 98       | 1.006   | 1.004    | -0.002 |
| Max         |          | 1.008   | 1.007    | 0.000  |
| Average     |          | 1.006   | 1.004    | -0.002 |
| Min         |          | 1.004   | 1.001    | -0.005 |
| Std Dev     |          | 0.001   | 0.002    | 0.001  |



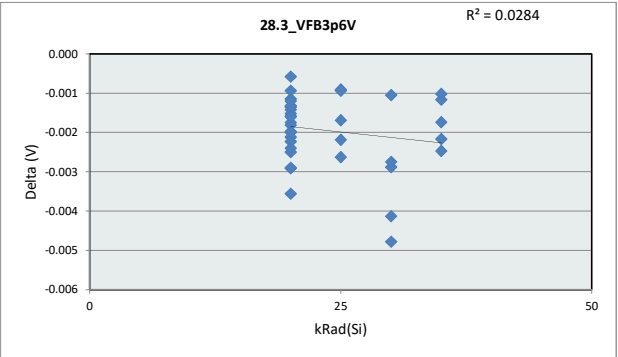
| 28.1_VFB    |       |        |       |       |
|-------------|-------|--------|-------|-------|
| Test Site   |       |        |       |       |
| Tester      |       |        |       |       |
| Test Number |       |        |       |       |
| Max Limit   |       | 1.0108 | V     |       |
| Min Limit   |       | 0.987  | V     |       |
| kRad(Si)    | 20    | 25     | 30    | 35    |
| LL          | 0.987 | 0.987  | 0.987 | 0.987 |
| Min         | 1.001 | 1.004  | 1.001 | 1.002 |
| Average     | 1.005 | 1.005  | 1.003 | 1.004 |
| Max         | 1.007 | 1.006  | 1.006 | 1.006 |
| UL          | 1.011 | 1.011  | 1.011 | 1.011 |



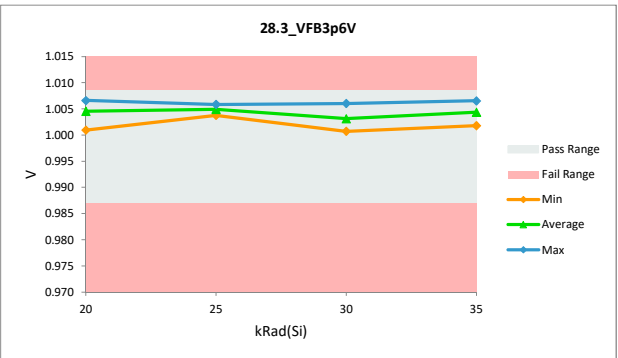
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 28.3_VFB3p6V |          |         |          |        |
|--------------|----------|---------|----------|--------|
| Test Site    |          |         |          |        |
| Tester       |          |         |          |        |
| Test Number  |          |         |          |        |
| Unit         | V        | V       |          |        |
| Max Limit    | 1.0085   | 1.0085  |          |        |
| Min Limit    | 0.987    | 0.987   |          |        |
| kRad(Si)     | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20           | 61       | 1.007   | 1.005    | -0.002 |
| 20           | 62       | 1.006   | 1.003    | -0.002 |
| 20           | 63       | 1.006   | 1.005    | -0.001 |
| 20           | 64       | 1.004   | 1.002    | -0.002 |
| 20           | 65       | 1.007   | 1.006    | -0.001 |
| 20           | 67       | 1.007   | 1.005    | -0.002 |
| 20           | 68       | 1.007   | 1.005    | -0.002 |
| 20           | 69       | 1.007   | 1.006    | -0.001 |
| 20           | 70       | 1.005   | 1.004    | -0.001 |
| 20           | 71       | 1.007   | 1.005    | -0.002 |
| 20           | 72       | 1.006   | 1.004    | -0.002 |
| 20           | 73       | 1.005   | 1.004    | -0.001 |
| 20           | 74       | 1.005   | 1.001    | -0.004 |
| 20           | 75       | 1.008   | 1.005    | -0.003 |
| 20           | 76       | 1.007   | 1.005    | -0.002 |
| 20           | 77       | 1.006   | 1.004    | -0.002 |
| 20           | 78       | 1.007   | 1.005    | -0.001 |
| 20           | 79       | 1.006   | 1.003    | -0.003 |
| 20           | 80       | 1.007   | 1.006    | -0.001 |
| 20           | 81       | 1.008   | 1.007    | -0.002 |
| 20           | 82       | 1.005   | 1.003    | -0.002 |
| 20           | 83       | 1.007   | 1.006    | -0.001 |
| 25           | 84       | 1.007   | 1.006    | -0.001 |
| 25           | 85       | 1.007   | 1.005    | -0.003 |
| 25           | 86       | 1.005   | 1.004    | -0.001 |
| 25           | 87       | 1.007   | 1.006    | -0.002 |
| 25           | 88       | 1.007   | 1.005    | -0.002 |
| 30           | 89       | 1.007   | 1.005    | -0.003 |
| 30           | 90       | 1.005   | 1.001    | -0.004 |
| 30           | 91       | 1.006   | 1.003    | -0.003 |
| 30           | 92       | 1.006   | 1.001    | -0.005 |
| 30           | 93       | 1.007   | 1.006    | -0.001 |
| 35           | 94       | 1.004   | 1.002    | -0.002 |
| 35           | 95       | 1.007   | 1.006    | -0.001 |
| 35           | 96       | 1.008   | 1.007    | -0.001 |
| 35           | 97       | 1.005   | 1.004    | -0.002 |
| 35           | 98       | 1.006   | 1.004    | -0.002 |
| Max          |          | 1.008   | 1.007    | -0.001 |
| Average      |          | 1.006   | 1.004    | -0.002 |
| Min          |          | 1.004   | 1.001    | -0.005 |
| Std Dev      |          | 0.001   | 0.002    | 0.001  |



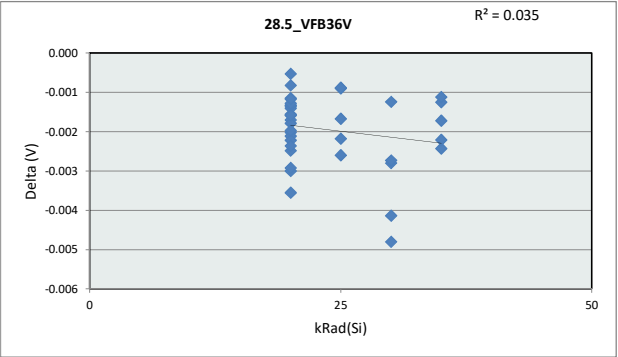
| 28.3_VFB3p6V |        |       |       |       |
|--------------|--------|-------|-------|-------|
| Test Site    |        |       |       |       |
| Tester       |        |       |       |       |
| Test Number  |        |       |       |       |
| Max Limit    | 1.0085 | V     |       |       |
| Min Limit    | 0.987  | V     |       |       |
| kRad(Si)     | 20     | 25    | 30    | 35    |
| LL           | 0.987  | 0.987 | 0.987 | 0.987 |
| Min          | 1.001  | 1.004 | 1.001 | 1.002 |
| Average      | 1.005  | 1.005 | 1.003 | 1.004 |
| Max          | 1.007  | 1.006 | 1.006 | 1.007 |
| UL           | 1.009  | 1.009 | 1.009 | 1.009 |



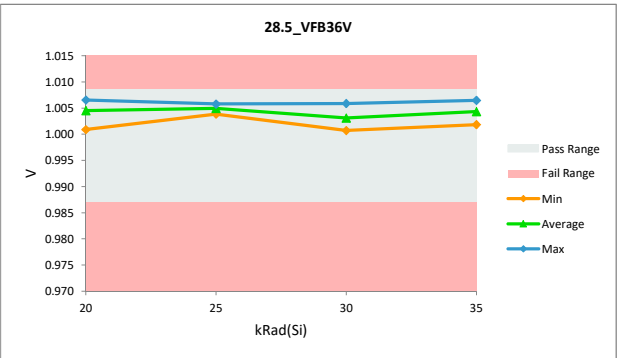
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 28.5_VFB36V |          |         |          |        |
|-------------|----------|---------|----------|--------|
| Test Site   |          |         |          |        |
| Tester      |          |         |          |        |
| Test Number |          |         |          |        |
| Unit        | V        | V       |          |        |
| Max Limit   | 1.0085   | 1.0085  |          |        |
| Min Limit   | 0.987    | 0.987   |          |        |
| kRad(Si)    | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20          | 61       | 1.007   | 1.005    | -0.002 |
| 20          | 62       | 1.006   | 1.003    | -0.002 |
| 20          | 63       | 1.006   | 1.005    | -0.001 |
| 20          | 64       | 1.004   | 1.002    | -0.002 |
| 20          | 65       | 1.007   | 1.006    | -0.001 |
| 20          | 67       | 1.007   | 1.005    | -0.002 |
| 20          | 68       | 1.007   | 1.005    | -0.002 |
| 20          | 69       | 1.007   | 1.006    | -0.001 |
| 20          | 70       | 1.005   | 1.004    | -0.001 |
| 20          | 71       | 1.007   | 1.005    | -0.002 |
| 20          | 72       | 1.006   | 1.004    | -0.002 |
| 20          | 73       | 1.005   | 1.004    | -0.001 |
| 20          | 74       | 1.004   | 1.001    | -0.004 |
| 20          | 75       | 1.008   | 1.005    | -0.003 |
| 20          | 76       | 1.007   | 1.005    | -0.002 |
| 20          | 77       | 1.006   | 1.004    | -0.002 |
| 20          | 78       | 1.007   | 1.005    | -0.001 |
| 20          | 79       | 1.006   | 1.003    | -0.003 |
| 20          | 80       | 1.006   | 1.006    | -0.001 |
| 20          | 81       | 1.008   | 1.007    | -0.002 |
| 20          | 82       | 1.005   | 1.003    | -0.002 |
| 20          | 83       | 1.007   | 1.006    | -0.001 |
| 25          | 84       | 1.007   | 1.006    | -0.001 |
| 25          | 85       | 1.007   | 1.005    | -0.003 |
| 25          | 86       | 1.005   | 1.004    | -0.001 |
| 25          | 87       | 1.007   | 1.006    | -0.002 |
| 25          | 88       | 1.007   | 1.005    | -0.002 |
| 30          | 89       | 1.007   | 1.005    | -0.003 |
| 30          | 90       | 1.005   | 1.001    | -0.004 |
| 30          | 91       | 1.006   | 1.004    | -0.003 |
| 30          | 92       | 1.006   | 1.001    | -0.005 |
| 30          | 93       | 1.007   | 1.006    | -0.001 |
| 35          | 94       | 1.004   | 1.002    | -0.002 |
| 35          | 95       | 1.007   | 1.006    | -0.001 |
| 35          | 96       | 1.008   | 1.006    | -0.001 |
| 35          | 97       | 1.005   | 1.004    | -0.002 |
| 35          | 98       | 1.006   | 1.004    | -0.002 |
|             | Max      | 1.008   | 1.007    | -0.001 |
|             | Average  | 1.006   | 1.004    | -0.002 |
|             | Min      | 1.004   | 1.001    | -0.005 |
|             | Std Dev  | 0.001   | 0.002    | 0.001  |



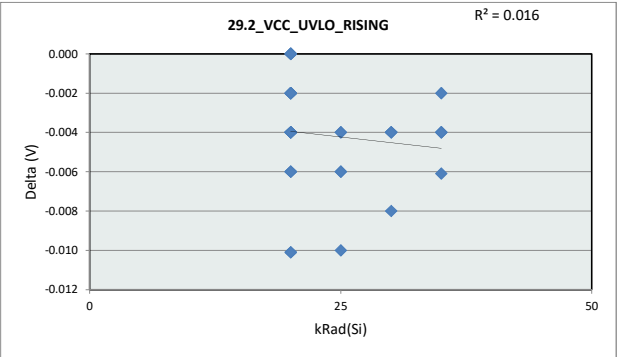
| 28.5_VFB36V |        |       |       |       |
|-------------|--------|-------|-------|-------|
| Test Site   |        |       |       |       |
| Tester      |        |       |       |       |
| Test Number |        |       |       |       |
| Max Limit   | 1.0085 | V     |       |       |
| Min Limit   | 0.987  | V     |       |       |
| kRad(Si)    | 20     | 25    | 30    | 35    |
| LL          | 0.987  | 0.987 | 0.987 | 0.987 |
| Min         | 1.001  | 1.004 | 1.001 | 1.002 |
| Average     | 1.005  | 1.005 | 1.003 | 1.004 |
| Max         | 1.007  | 1.006 | 1.006 | 1.006 |
| UL          | 1.009  | 1.009 | 1.009 | 1.009 |



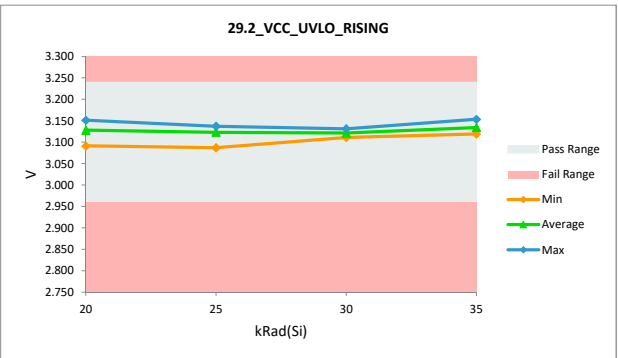
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.2_VCC_UVLO_RISING |          |         |          |        |
|----------------------|----------|---------|----------|--------|
| Test Site            |          |         |          |        |
| Tester               |          |         |          |        |
| Test Number          |          |         |          |        |
| Unit                 | V        | V       |          |        |
| Max Limit            | 3.24     | 3.24    |          |        |
| Min Limit            | 2.96     | 2.96    |          |        |
| kRad(Si)             | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                   | 61       | 3.131   | 3.129    | -0.002 |
| 20                   | 62       | 3.121   | 3.117    | -0.004 |
| 20                   | 63       | 3.125   | 3.125    | 0.000  |
| 20                   | 64       | 3.151   | 3.147    | -0.004 |
| 20                   | 65       | 3.137   | 3.137    | 0.000  |
| 20                   | 67       | 3.127   | 3.117    | -0.010 |
| 20                   | 68       | 3.145   | 3.141    | -0.004 |
| 20                   | 69       | 3.145   | 3.141    | -0.004 |
| 20                   | 70       | 3.151   | 3.151    | 0.000  |
| 20                   | 71       | 3.115   | 3.111    | -0.004 |
| 20                   | 72       | 3.133   | 3.131    | -0.002 |
| 20                   | 73       | 3.151   | 3.145    | -0.006 |
| 20                   | 74       | 3.129   | 3.119    | -0.010 |
| 20                   | 75       | 3.135   | 3.129    | -0.006 |
| 20                   | 76       | 3.123   | 3.123    | 0.000  |
| 20                   | 77       | 3.109   | 3.105    | -0.004 |
| 20                   | 78       | 3.139   | 3.137    | -0.002 |
| 20                   | 79       | 3.147   | 3.143    | -0.004 |
| 20                   | 80       | 3.133   | 3.131    | -0.002 |
| 20                   | 81       | 3.097   | 3.091    | -0.006 |
| 20                   | 82       | 3.117   | 3.113    | -0.004 |
| 20                   | 83       | 3.137   | 3.135    | -0.002 |
| 25                   | 84       | 3.133   | 3.127    | -0.006 |
| 25                   | 85       | 3.093   | 3.087    | -0.006 |
| 25                   | 86       | 3.133   | 3.129    | -0.004 |
| 25                   | 87       | 3.141   | 3.137    | -0.004 |
| 25                   | 88       | 3.145   | 3.135    | -0.010 |
| 30                   | 89       | 3.115   | 3.111    | -0.004 |
| 30                   | 90       | 3.129   | 3.125    | -0.004 |
| 30                   | 91       | 3.129   | 3.125    | -0.004 |
| 30                   | 92       | 3.121   | 3.113    | -0.008 |
| 30                   | 93       | 3.135   | 3.131    | -0.004 |
| 35                   | 94       | 3.157   | 3.153    | -0.004 |
| 35                   | 95       | 3.129   | 3.125    | -0.004 |
| 35                   | 96       | 3.125   | 3.119    | -0.006 |
| 35                   | 97       | 3.145   | 3.143    | -0.002 |
| 35                   | 98       | 3.135   | 3.131    | -0.004 |
|                      | Max      | 3.157   | 3.153    | 0.000  |
|                      | Average  | 3.132   | 3.128    | -0.004 |
|                      | Min      | 3.093   | 3.087    | -0.010 |
|                      | Std Dev  | 0.014   | 0.015    | 0.003  |



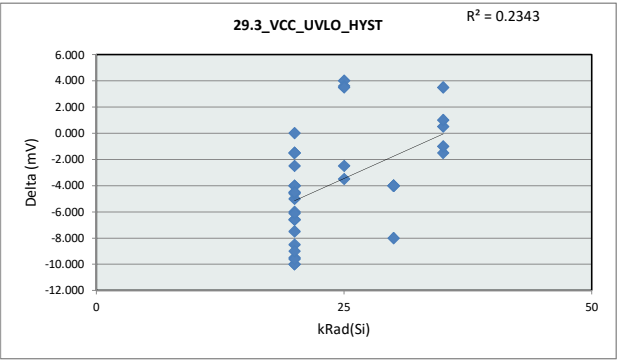
| 29.2_VCC_UVLO_RISING |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Test Site            |       |       |       |       |
| Tester               |       |       |       |       |
| Test Number          |       |       |       |       |
| Max Limit            | 3.24  | V     |       |       |
| Min Limit            | 2.96  | V     |       |       |
| kRad(Si)             | 20    | 25    | 30    | 35    |
| LL                   | 2.960 | 2.960 | 2.960 | 2.960 |
| Min                  | 3.091 | 3.087 | 3.111 | 3.119 |
| Average              | 3.128 | 3.123 | 3.121 | 3.134 |
| Max                  | 3.151 | 3.137 | 3.131 | 3.153 |
| UL                   | 3.240 | 3.240 | 3.240 | 3.240 |



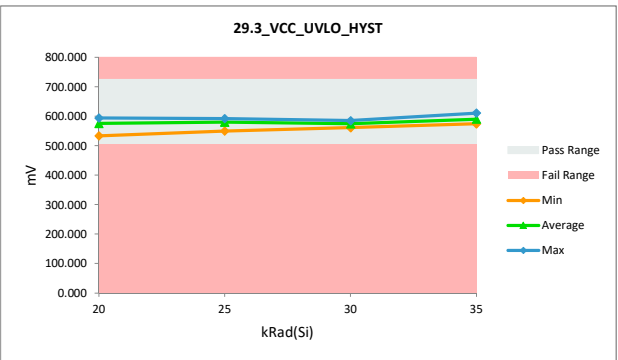
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.3_VCC_UVLO_HYST |          |         |          |         |
|--------------------|----------|---------|----------|---------|
| Test Site          |          |         |          |         |
| Tester             |          |         |          |         |
| Test Number        |          |         |          |         |
| Unit               |          | mV      | mV       |         |
| Max Limit          |          | 725     | 725      |         |
| Min Limit          |          | 505     | 505      |         |
| kRad(Si)           | Serial # | Pre_HDR | Post_HDR | Delta   |
| 20                 | 61       | 576.100 | 571.600  | -4.500  |
| 20                 | 62       | 571.100 | 569.600  | -1.500  |
| 20                 | 63       | 572.600 | 572.600  | 0.000   |
| 20                 | 64       | 593.700 | 592.200  | -1.500  |
| 20                 | 65       | 587.100 | 584.600  | -2.500  |
| 20                 | 67       | 574.600 | 564.600  | -10.000 |
| 20                 | 68       | 592.700 | 586.100  | -6.600  |
| 20                 | 69       | 592.700 | 586.100  | -6.600  |
| 20                 | 70       | 601.200 | 593.700  | -7.500  |
| 20                 | 71       | 567.600 | 563.600  | -4.000  |
| 20                 | 72       | 583.100 | 573.600  | -9.500  |
| 20                 | 73       | 598.700 | 592.700  | -6.000  |
| 20                 | 74       | 584.100 | 574.100  | -10.000 |
| 20                 | 75       | 582.600 | 574.100  | -8.500  |
| 20                 | 76       | 575.600 | 570.600  | -5.000  |
| 20                 | 77       | 559.100 | 557.600  | -1.500  |
| 20                 | 78       | 591.700 | 582.100  | -9.600  |
| 20                 | 79       | 599.700 | 590.700  | -9.000  |
| 20                 | 80       | 590.700 | 586.100  | -4.600  |
| 20                 | 81       | 539.600 | 533.500  | -6.100  |
| 20                 | 82       | 567.100 | 563.100  | -4.000  |
| 20                 | 83       | 579.600 | 575.100  | -4.500  |
| 25                 | 84       | 583.100 | 579.600  | -3.500  |
| 25                 | 85       | 545.600 | 549.600  | 4.000   |
| 25                 | 86       | 585.600 | 589.200  | 3.600   |
| 25                 | 87       | 588.700 | 592.200  | 3.500   |
| 25                 | 88       | 590.200 | 587.700  | -2.500  |
| 30                 | 89       | 565.100 | 561.100  | -4.000  |
| 30                 | 90       | 589.200 | 585.200  | -4.000  |
| 30                 | 91       | 579.100 | 575.100  | -4.000  |
| 30                 | 92       | 576.100 | 568.100  | -8.000  |
| 30                 | 93       | 585.100 | 581.100  | -4.000  |
| 35                 | 94       | 607.200 | 610.700  | 3.500   |
| 35                 | 95       | 579.100 | 577.600  | -1.500  |
| 35                 | 96       | 575.100 | 574.100  | -1.000  |
| 35                 | 97       | 595.200 | 595.700  | 0.500   |
| 35                 | 98       | 590.200 | 591.200  | 1.000   |
| Max                |          | 607.200 | 610.700  | 4.000   |
| Average            |          | 581.503 | 577.735  | -3.768  |
| Min                |          | 539.600 | 533.500  | -10.000 |
| Std Dev            |          | 14.326  | 14.525   | 3.955   |



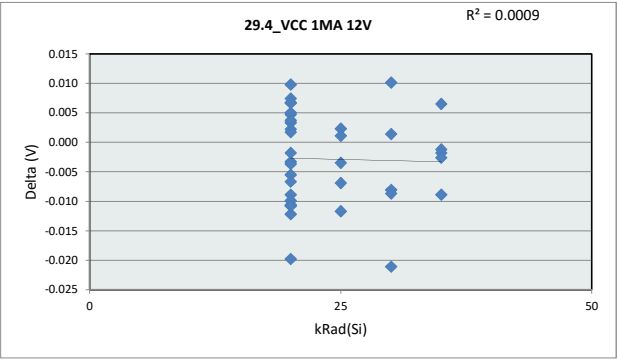
|             |         | 29.3_VCC_UVLO_HYST |         |         |  |
|-------------|---------|--------------------|---------|---------|--|
| Test Site   |         |                    |         |         |  |
| Tester      |         |                    |         |         |  |
| Test Number |         |                    |         |         |  |
| Max Limit   | 725     | mV                 |         |         |  |
| Min Limit   | 505     | mV                 |         |         |  |
| kRad(Si)    | 20      | 25                 | 30      | 35      |  |
| LL          | 505.000 | 505.000            | 505.000 | 505.000 |  |
| Min         | 533.500 | 549.600            | 561.100 | 574.100 |  |
| Average     | 575.364 | 579.660            | 574.120 | 589.860 |  |
| Max         | 593.700 | 592.200            | 585.200 | 610.700 |  |
| UL          | 725.000 | 725.000            | 725.000 | 725.000 |  |
|             |         |                    |         |         |  |



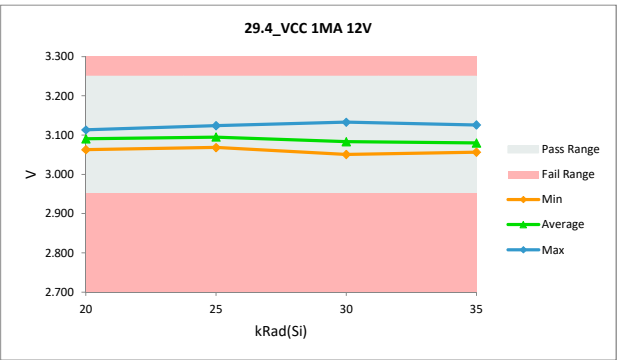
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.4_VCC 1MA 12V |          |         |          |        |
|------------------|----------|---------|----------|--------|
| Test Site        |          |         |          |        |
| Tester           |          |         |          |        |
| Test Number      |          |         |          |        |
| Unit             | V        | V       |          |        |
| Max Limit        | 3.25     | 3.25    |          |        |
| Min Limit        | 2.95     | 2.95    |          |        |
| kRad(Si)         | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20               | 61       | 3.080   | 3.085    | 0.005  |
| 20               | 62       | 3.107   | 3.098    | -0.009 |
| 20               | 63       | 3.085   | 3.092    | 0.007  |
| 20               | 64       | 3.119   | 3.113    | -0.005 |
| 20               | 65       | 3.075   | 3.072    | -0.003 |
| 20               | 67       | 3.080   | 3.076    | -0.004 |
| 20               | 68       | 3.122   | 3.112    | -0.010 |
| 20               | 69       | 3.092   | 3.097    | 0.005  |
| 20               | 70       | 3.079   | 3.082    | 0.003  |
| 20               | 71       | 3.070   | 3.074    | 0.004  |
| 20               | 72       | 3.099   | 3.109    | 0.010  |
| 20               | 73       | 3.094   | 3.096    | 0.002  |
| 20               | 74       | 3.105   | 3.085    | -0.020 |
| 20               | 75       | 3.095   | 3.083    | -0.012 |
| 20               | 76       | 3.111   | 3.104    | -0.007 |
| 20               | 77       | 3.065   | 3.063    | -0.002 |
| 20               | 78       | 3.104   | 3.106    | 0.002  |
| 20               | 79       | 3.088   | 3.078    | -0.011 |
| 20               | 80       | 3.080   | 3.087    | 0.007  |
| 20               | 81       | 3.085   | 3.075    | -0.011 |
| 20               | 82       | 3.096   | 3.103    | 0.007  |
| 20               | 83       | 3.119   | 3.109    | -0.011 |
| 25               | 84       | 3.131   | 3.124    | -0.007 |
| 25               | 85       | 3.080   | 3.068    | -0.012 |
| 25               | 86       | 3.084   | 3.086    | 0.002  |
| 25               | 87       | 3.118   | 3.119    | 0.001  |
| 25               | 88       | 3.080   | 3.077    | -0.003 |
| 30               | 89       | 3.049   | 3.050    | 0.001  |
| 30               | 90       | 3.109   | 3.088    | -0.021 |
| 30               | 91       | 3.123   | 3.133    | 0.010  |
| 30               | 92       | 3.069   | 3.060    | -0.008 |
| 30               | 93       | 3.093   | 3.085    | -0.009 |
| 35               | 94       | 3.057   | 3.056    | -0.001 |
| 35               | 95       | 3.066   | 3.064    | -0.002 |
| 35               | 96       | 3.061   | 3.058    | -0.003 |
| 35               | 97       | 3.119   | 3.126    | 0.007  |
| 35               | 98       | 3.105   | 3.096    | -0.009 |
|                  | Max      | 3.131   | 3.133    | 0.010  |
|                  | Average  | 3.092   | 3.089    | -0.003 |
|                  | Min      | 3.049   | 3.050    | -0.021 |
|                  | Std Dev  | 0.021   | 0.021    | 0.008  |



| 29.4_VCC 1MA 12V |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        | 3.25  | V     |       |       |
| Min Limit        | 2.95  | V     |       |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 2.950 | 2.950 | 2.950 | 2.950 |
| Min              | 3.063 | 3.068 | 3.050 | 3.056 |
| Average          | 3.091 | 3.095 | 3.083 | 3.080 |
| Max              | 3.113 | 3.124 | 3.133 | 3.126 |
| UL               | 3.250 | 3.250 | 3.250 | 3.250 |



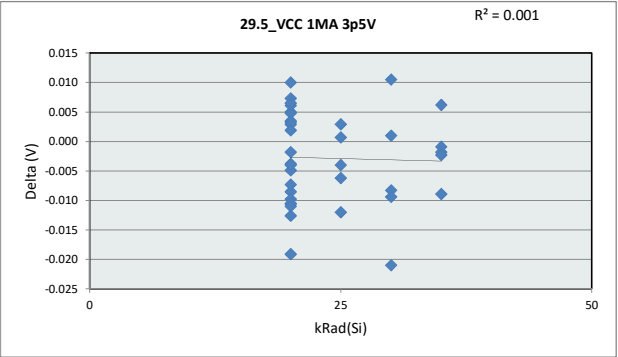


# HDR TID Report

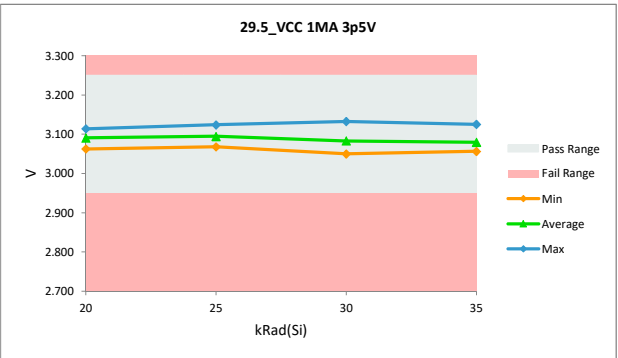
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.5_VCC 1MA 3p5V |          |         |          |        |
|-------------------|----------|---------|----------|--------|
| Test Site         |          |         |          |        |
| Tester            |          |         |          |        |
| Test Number       |          |         |          |        |
| Unit              | V        | V       |          |        |
| Max Limit         | 3.25     | 3.25    |          |        |
| Min Limit         | 2.95     | 2.95    |          |        |
| kRad(Si)          | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                | 61       | 3.080   | 3.085    | 0.005  |
| 20                | 62       | 3.107   | 3.098    | -0.008 |
| 20                | 63       | 3.085   | 3.092    | 0.007  |
| 20                | 64       | 3.119   | 3.114    | -0.005 |
| 20                | 65       | 3.076   | 3.072    | -0.004 |
| 20                | 67       | 3.080   | 3.076    | -0.004 |
| 20                | 68       | 3.122   | 3.112    | -0.010 |
| 20                | 69       | 3.092   | 3.097    | 0.005  |
| 20                | 70       | 3.078   | 3.082    | 0.003  |
| 20                | 71       | 3.070   | 3.073    | 0.003  |
| 20                | 72       | 3.099   | 3.109    | 0.010  |
| 20                | 73       | 3.094   | 3.097    | 0.003  |
| 20                | 74       | 3.105   | 3.086    | -0.019 |
| 20                | 75       | 3.095   | 3.083    | -0.013 |
| 20                | 76       | 3.111   | 3.103    | -0.007 |
| 20                | 77       | 3.065   | 3.063    | -0.002 |
| 20                | 78       | 3.104   | 3.106    | 0.002  |
| 20                | 79       | 3.088   | 3.078    | -0.011 |
| 20                | 80       | 3.080   | 3.086    | 0.006  |
| 20                | 81       | 3.085   | 3.074    | -0.010 |
| 20                | 82       | 3.096   | 3.102    | 0.007  |
| 20                | 83       | 3.119   | 3.108    | -0.011 |
| 25                | 84       | 3.130   | 3.124    | -0.006 |
| 25                | 85       | 3.080   | 3.068    | -0.012 |
| 25                | 86       | 3.083   | 3.086    | 0.003  |
| 25                | 87       | 3.118   | 3.118    | 0.001  |
| 25                | 88       | 3.080   | 3.076    | -0.004 |
| 30                | 89       | 3.049   | 3.050    | 0.001  |
| 30                | 90       | 3.109   | 3.088    | -0.021 |
| 30                | 91       | 3.122   | 3.133    | 0.011  |
| 30                | 92       | 3.069   | 3.060    | -0.008 |
| 30                | 93       | 3.094   | 3.084    | -0.009 |
| 35                | 94       | 3.057   | 3.056    | -0.001 |
| 35                | 95       | 3.066   | 3.064    | -0.002 |
| 35                | 96       | 3.060   | 3.058    | -0.002 |
| 35                | 97       | 3.119   | 3.125    | 0.006  |
| 35                | 98       | 3.105   | 3.096    | -0.009 |
| Max               |          | 3.130   | 3.133    | 0.011  |
| Average           |          | 3.092   | 3.089    | -0.003 |
| Min               |          | 3.049   | 3.050    | -0.021 |
| Std Dev           |          | 0.021   | 0.021    | 0.008  |



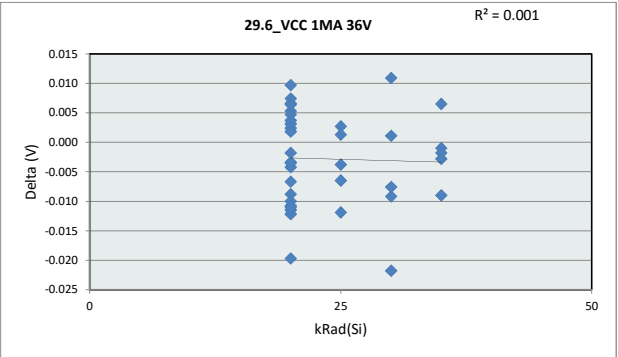
| 29.5_VCC 1MA 3p5V |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| Test Site         |       |       |       |       |
| Tester            |       |       |       |       |
| Test Number       |       |       |       |       |
| Max Limit         | 3.25  | V     |       |       |
| Min Limit         | 2.95  | V     |       |       |
| kRad(Si)          | 20    | 25    | 30    | 35    |
| LL                | 2.950 | 2.950 | 2.950 | 2.950 |
| Min               | 3.063 | 3.068 | 3.050 | 3.056 |
| Average           | 3.091 | 3.095 | 3.083 | 3.080 |
| Max               | 3.114 | 3.124 | 3.133 | 3.125 |
| UL                | 3.250 | 3.250 | 3.250 | 3.250 |



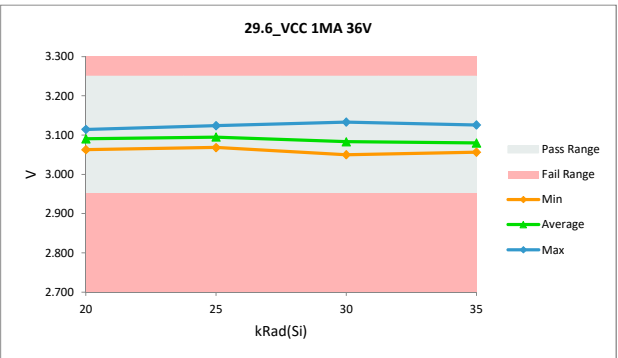
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.6_VCC 1MA 36V |          |         |          |        |
|------------------|----------|---------|----------|--------|
| Test Site        |          |         |          |        |
| Tester           |          |         |          |        |
| Test Number      |          |         |          |        |
| Unit             | V        | V       |          |        |
| Max Limit        | 3.25     | 3.25    |          |        |
| Min Limit        | 2.95     | 2.95    |          |        |
| kRad(Si)         | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20               | 61       | 3.079   | 3.085    | 0.005  |
| 20               | 62       | 3.107   | 3.098    | -0.009 |
| 20               | 63       | 3.085   | 3.092    | 0.007  |
| 20               | 64       | 3.119   | 3.115    | -0.004 |
| 20               | 65       | 3.076   | 3.072    | -0.003 |
| 20               | 67       | 3.079   | 3.076    | -0.003 |
| 20               | 68       | 3.122   | 3.112    | -0.010 |
| 20               | 69       | 3.092   | 3.097    | 0.005  |
| 20               | 70       | 3.079   | 3.082    | 0.003  |
| 20               | 71       | 3.070   | 3.074    | 0.004  |
| 20               | 72       | 3.099   | 3.109    | 0.010  |
| 20               | 73       | 3.094   | 3.097    | 0.002  |
| 20               | 74       | 3.105   | 3.086    | -0.020 |
| 20               | 75       | 3.095   | 3.083    | -0.012 |
| 20               | 76       | 3.111   | 3.104    | -0.007 |
| 20               | 77       | 3.065   | 3.063    | -0.002 |
| 20               | 78       | 3.104   | 3.106    | 0.002  |
| 20               | 79       | 3.088   | 3.078    | -0.011 |
| 20               | 80       | 3.080   | 3.086    | 0.006  |
| 20               | 81       | 3.086   | 3.074    | -0.011 |
| 20               | 82       | 3.096   | 3.103    | 0.007  |
| 20               | 83       | 3.119   | 3.108    | -0.011 |
| 25               | 84       | 3.131   | 3.124    | -0.007 |
| 25               | 85       | 3.080   | 3.068    | -0.012 |
| 25               | 86       | 3.084   | 3.087    | 0.003  |
| 25               | 87       | 3.118   | 3.119    | 0.001  |
| 25               | 88       | 3.080   | 3.076    | -0.004 |
| 30               | 89       | 3.049   | 3.050    | 0.001  |
| 30               | 90       | 3.109   | 3.087    | -0.022 |
| 30               | 91       | 3.122   | 3.133    | 0.011  |
| 30               | 92       | 3.068   | 3.061    | -0.008 |
| 30               | 93       | 3.093   | 3.084    | -0.009 |
| 35               | 94       | 3.057   | 3.056    | -0.001 |
| 35               | 95       | 3.066   | 3.064    | -0.002 |
| 35               | 96       | 3.061   | 3.058    | -0.003 |
| 35               | 97       | 3.119   | 3.126    | 0.007  |
| 35               | 98       | 3.105   | 3.096    | -0.009 |
|                  | Max      | 3.131   | 3.133    | 0.011  |
|                  | Average  | 3.092   | 3.089    | -0.003 |
|                  | Min      | 3.049   | 3.050    | -0.022 |
|                  | Std Dev  | 0.021   | 0.021    | 0.008  |



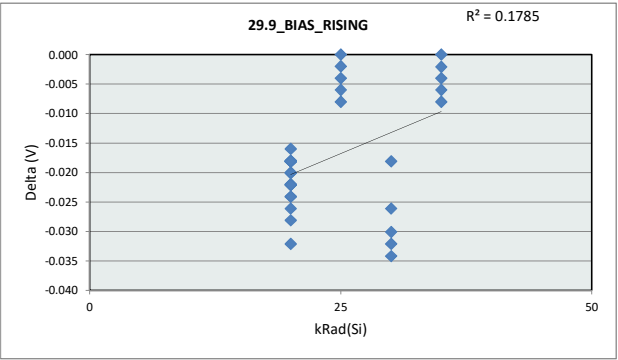
| 29.6_VCC 1MA 36V |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        | 3.25  | V     |       |       |
| Min Limit        | 2.95  | V     |       |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 2.950 | 2.950 | 2.950 | 2.950 |
| Min              | 3.063 | 3.068 | 3.050 | 3.056 |
| Average          | 3.091 | 3.095 | 3.083 | 3.080 |
| Max              | 3.115 | 3.124 | 3.133 | 3.126 |
| UL               | 3.250 | 3.250 | 3.250 | 3.250 |



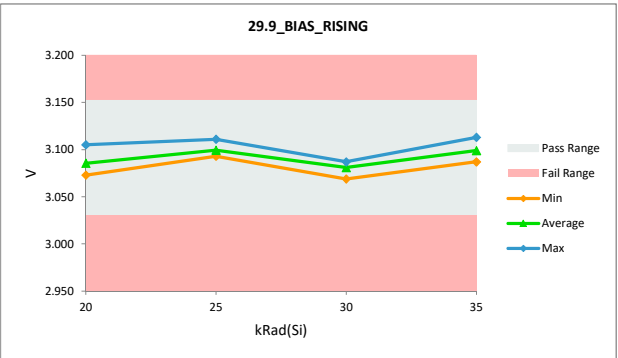
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.9_BIAS_RISING |          |         |          |        |
|------------------|----------|---------|----------|--------|
| Test Site        |          |         |          |        |
| Tester           |          |         |          |        |
| Test Number      |          |         |          |        |
| Unit             | V        | V       |          |        |
| Max Limit        | 3.152    | 3.152   |          |        |
| Min Limit        | 3.03     | 3.03    |          |        |
| kRad(Si)         | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20               | 61       | 3.113   | 3.091    | -0.022 |
| 20               | 62       | 3.105   | 3.083    | -0.022 |
| 20               | 63       | 3.111   | 3.089    | -0.022 |
| 20               | 64       | 3.115   | 3.097    | -0.018 |
| 20               | 65       | 3.105   | 3.081    | -0.024 |
| 20               | 67       | 3.099   | 3.073    | -0.026 |
| 20               | 68       | 3.103   | 3.085    | -0.018 |
| 20               | 69       | 3.095   | 3.077    | -0.018 |
| 20               | 70       | 3.105   | 3.089    | -0.016 |
| 20               | 71       | 3.101   | 3.079    | -0.022 |
| 20               | 72       | 3.105   | 3.087    | -0.018 |
| 20               | 73       | 3.095   | 3.077    | -0.018 |
| 20               | 74       | 3.113   | 3.081    | -0.032 |
| 20               | 75       | 3.105   | 3.085    | -0.020 |
| 20               | 76       | 3.103   | 3.083    | -0.020 |
| 20               | 77       | 3.103   | 3.079    | -0.024 |
| 20               | 78       | 3.107   | 3.087    | -0.020 |
| 20               | 79       | 3.113   | 3.085    | -0.028 |
| 20               | 80       | 3.111   | 3.093    | -0.018 |
| 20               | 81       | 3.119   | 3.097    | -0.022 |
| 20               | 82       | 3.099   | 3.081    | -0.018 |
| 20               | 83       | 3.123   | 3.105    | -0.018 |
| 25               | 84       | 3.093   | 3.093    | 0.000  |
| 25               | 85       | 3.111   | 3.103    | -0.008 |
| 25               | 86       | 3.097   | 3.093    | -0.004 |
| 25               | 87       | 3.113   | 3.111    | -0.002 |
| 25               | 88       | 3.103   | 3.097    | -0.006 |
| 30               | 89       | 3.099   | 3.069    | -0.030 |
| 30               | 90       | 3.119   | 3.087    | -0.032 |
| 30               | 91       | 3.111   | 3.085    | -0.026 |
| 30               | 92       | 3.119   | 3.085    | -0.034 |
| 30               | 93       | 3.097   | 3.079    | -0.018 |
| 35               | 94       | 3.097   | 3.097    | 0.000  |
| 35               | 95       | 3.095   | 3.087    | -0.008 |
| 35               | 96       | 3.115   | 3.113    | -0.002 |
| 35               | 97       | 3.113   | 3.107    | -0.006 |
| 35               | 98       | 3.095   | 3.091    | -0.004 |
| Max              |          | 3.123   | 3.113    | 0.000  |
| Average          |          | 3.106   | 3.089    | -0.017 |
| Min              |          | 3.093   | 3.069    | -0.034 |
| Std Dev          |          | 0.008   | 0.010    | 0.009  |



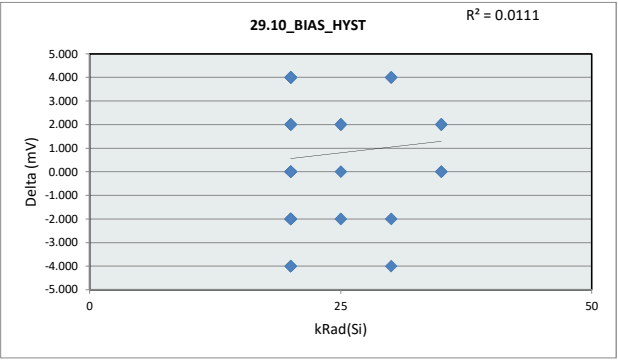
| 29.9_BIAS_RISING |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        | 3.152 | V     |       |       |
| Min Limit        | 3.03  | V     |       |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 3.030 | 3.030 | 3.030 | 3.030 |
| Min              | 3.073 | 3.093 | 3.069 | 3.087 |
| Average          | 3.086 | 3.099 | 3.081 | 3.099 |
| Max              | 3.105 | 3.111 | 3.087 | 3.113 |
| UL               | 3.152 | 3.152 | 3.152 | 3.152 |



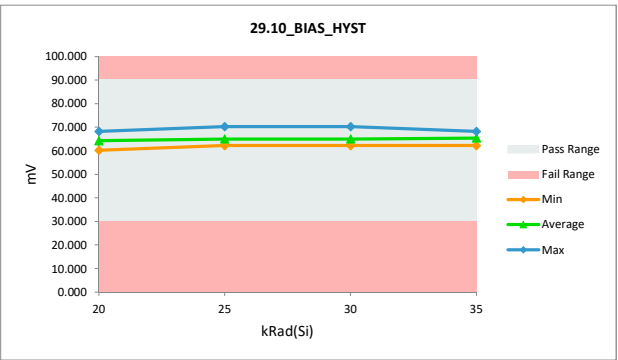
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.10_BIAS_HYST |          |         |          |        |
|-----------------|----------|---------|----------|--------|
| Test Site       |          |         |          |        |
| Tester          |          |         |          |        |
| Test Number     |          |         |          |        |
| Unit            |          | mV      | mV       |        |
| Max Limit       |          | 90      | 90       |        |
| Min Limit       |          | 30      | 30       |        |
| kRad(Si)        | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20              | 61       | 64.200  | 62.200   | -2.000 |
| 20              | 62       | 68.200  | 68.200   | 0.000  |
| 20              | 63       | 62.200  | 64.200   | 2.000  |
| 20              | 64       | 66.200  | 66.200   | 0.000  |
| 20              | 65       | 64.200  | 60.200   | -4.000 |
| 20              | 67       | 62.200  | 64.200   | 2.000  |
| 20              | 68       | 64.200  | 64.200   | 0.000  |
| 20              | 69       | 62.200  | 66.200   | 4.000  |
| 20              | 70       | 64.200  | 60.200   | -4.000 |
| 20              | 71       | 64.200  | 62.200   | -2.000 |
| 20              | 72       | 62.200  | 66.200   | 4.000  |
| 20              | 73       | 66.200  | 66.200   | 0.000  |
| 20              | 74       | 62.200  | 64.200   | 2.000  |
| 20              | 75       | 62.200  | 66.200   | 4.000  |
| 20              | 76       | 64.200  | 66.200   | 2.000  |
| 20              | 77       | 66.200  | 62.200   | -4.000 |
| 20              | 78       | 62.200  | 66.200   | 4.000  |
| 20              | 79       | 62.200  | 60.200   | -2.000 |
| 20              | 80       | 64.200  | 62.200   | -2.000 |
| 20              | 81       | 64.200  | 64.200   | 0.000  |
| 20              | 82       | 60.200  | 64.200   | 4.000  |
| 20              | 83       | 64.200  | 68.200   | 4.000  |
| 25              | 84       | 68.200  | 70.200   | 2.000  |
| 25              | 85       | 64.200  | 62.200   | -2.000 |
| 25              | 86       | 62.200  | 62.200   | 0.000  |
| 25              | 87       | 64.200  | 66.200   | 2.000  |
| 25              | 88       | 62.200  | 64.200   | 2.000  |
| 30              | 89       | 64.200  | 62.200   | -2.000 |
| 30              | 90       | 60.200  | 64.200   | 4.000  |
| 30              | 91       | 66.200  | 70.200   | 4.000  |
| 30              | 92       | 66.200  | 62.200   | -4.000 |
| 30              | 93       | 62.200  | 66.200   | 4.000  |
| 35              | 94       | 62.200  | 64.200   | 2.000  |
| 35              | 95       | 62.200  | 62.200   | 0.000  |
| 35              | 96       | 64.200  | 66.200   | 2.000  |
| 35              | 97       | 66.200  | 68.200   | 2.000  |
| 35              | 98       | 66.200  | 66.200   | 0.000  |
| Max             |          | 68.200  | 70.200   | 4.000  |
| Average         |          | 63.876  | 64.632   | 0.757  |
| Min             |          | 60.200  | 60.200   | -4.000 |
| Std Dev         |          | 1.973   | 2.588    | 2.639  |



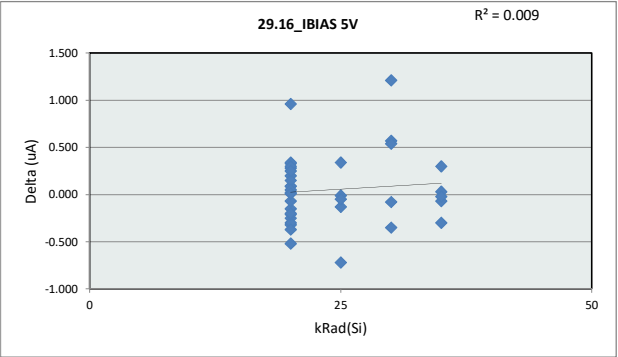
|             |        | 29.10_BIAS_HYST |        |        |  |
|-------------|--------|-----------------|--------|--------|--|
| Test Site   |        |                 |        |        |  |
| Tester      |        |                 |        |        |  |
| Test Number |        |                 |        |        |  |
| Max Limit   | 90     | mV              |        |        |  |
| Min Limit   | 30     | mV              |        |        |  |
| kRad(Si)    | 20     | 25              | 30     | 35     |  |
| LL          | 30.000 | 30.000          | 30.000 | 30.000 |  |
| Min         | 60.200 | 62.200          | 62.200 | 62.200 |  |
| Average     | 64.291 | 65.000          | 65.000 | 65.400 |  |
| Max         | 68.200 | 70.200          | 70.200 | 68.200 |  |
| UL          | 90.000 | 90.000          | 90.000 | 90.000 |  |
|             |        |                 |        |        |  |



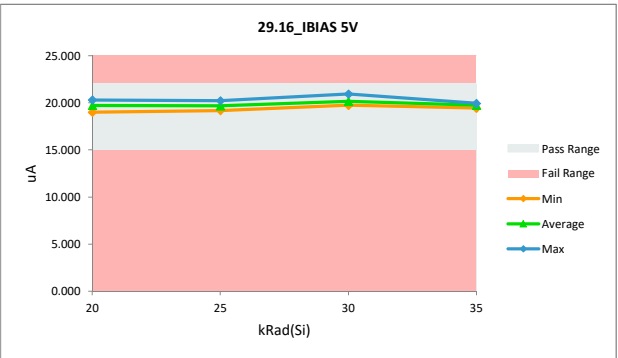
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.16_IBIAS 5V |          |         |          |        |
|----------------|----------|---------|----------|--------|
| Test Site      |          |         |          |        |
| Tester         |          |         |          |        |
| Test Number    |          |         |          |        |
| Unit           | uA       | uA      |          |        |
| Max Limit      | 22       | 22      |          |        |
| Min Limit      | 15       | 15      |          |        |
| kRad(Si)       | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20             | 61       | 19.650  | 19.980   | 0.330  |
| 20             | 62       | 19.730  | 19.480   | -0.250 |
| 20             | 63       | 19.450  | 19.130   | -0.320 |
| 20             | 64       | 20.460  | 20.310   | -0.150 |
| 20             | 65       | 19.190  | 19.280   | 0.090  |
| 20             | 67       | 19.570  | 19.590   | 0.020  |
| 20             | 68       | 19.690  | 19.890   | 0.200  |
| 20             | 69       | 20.070  | 19.770   | -0.300 |
| 20             | 70       | 19.680  | 19.470   | -0.210 |
| 20             | 71       | 19.960  | 19.590   | -0.370 |
| 20             | 72       | 19.810  | 20.150   | 0.340  |
| 20             | 73       | 19.550  | 19.640   | 0.090  |
| 20             | 74       | 19.630  | 19.910   | 0.280  |
| 20             | 75       | 20.040  | 19.840   | -0.200 |
| 20             | 76       | 19.820  | 19.970   | 0.150  |
| 20             | 77       | 19.520  | 19.000   | -0.520 |
| 20             | 78       | 20.370  | 20.300   | -0.070 |
| 20             | 79       | 19.680  | 19.980   | 0.300  |
| 20             | 80       | 19.790  | 19.840   | 0.050  |
| 20             | 81       | 18.610  | 19.570   | 0.960  |
| 20             | 82       | 19.540  | 19.790   | 0.250  |
| 20             | 83       | 19.620  | 19.630   | 0.010  |
| 25             | 84       | 19.740  | 19.610   | -0.130 |
| 25             | 85       | 19.910  | 19.190   | -0.720 |
| 25             | 86       | 19.610  | 19.600   | -0.010 |
| 25             | 87       | 19.930  | 19.880   | -0.050 |
| 25             | 88       | 19.880  | 20.220   | 0.340  |
| 30             | 89       | 19.820  | 19.740   | -0.080 |
| 30             | 90       | 20.190  | 19.840   | -0.350 |
| 30             | 91       | 19.730  | 20.940   | 1.210  |
| 30             | 92       | 19.720  | 20.290   | 0.570  |
| 30             | 93       | 19.490  | 20.030   | 0.540  |
| 35             | 94       | 19.630  | 19.560   | -0.070 |
| 35             | 95       | 19.650  | 19.950   | 0.300  |
| 35             | 96       | 19.410  | 19.440   | 0.030  |
| 35             | 97       | 19.960  | 19.940   | -0.020 |
| 35             | 98       | 20.150  | 19.850   | -0.300 |
|                | Max      | 20.460  | 20.940   | 1.210  |
|                | Average  | 19.736  | 19.789   | 0.052  |
|                | Min      | 18.610  | 19.000   | -0.720 |
|                | Std Dev  | 0.323   | 0.372    | 0.379  |



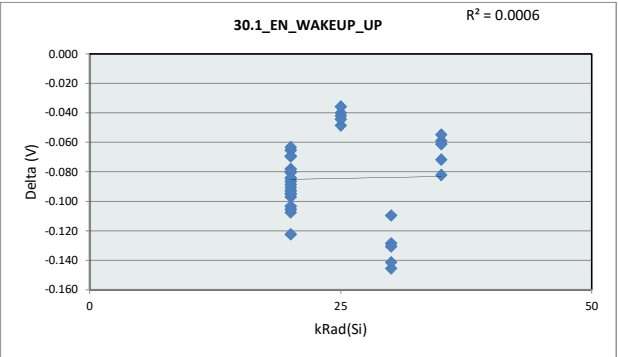
| 29.16_IBIAS 5V |        |        |        |        |
|----------------|--------|--------|--------|--------|
| Test Site      |        |        |        |        |
| Tester         |        |        |        |        |
| Test Number    |        |        |        |        |
| Max Limit      | 22     | uA     |        |        |
| Min Limit      | 15     | uA     |        |        |
| kRad(Si)       | 20     | 25     | 30     | 35     |
| LL             | 15.000 | 15.000 | 15.000 | 15.000 |
| Min            | 19.000 | 19.190 | 19.740 | 19.440 |
| Average        | 19.732 | 19.700 | 20.168 | 19.748 |
| Max            | 20.310 | 20.220 | 20.940 | 19.950 |
| UL             | 22.000 | 22.000 | 22.000 | 22.000 |



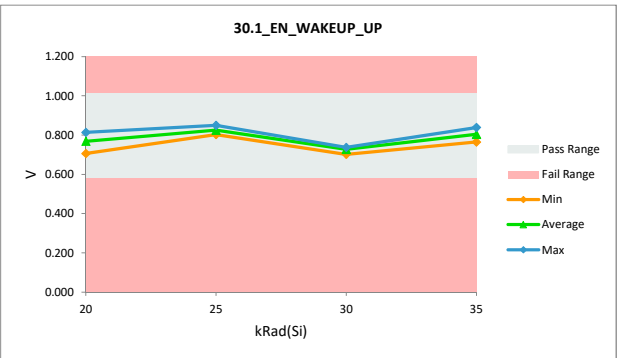
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 30.1_EN_WAKEUP_UP |          |         |          |        |
|-------------------|----------|---------|----------|--------|
| Test Site         |          |         |          |        |
| Tester            |          |         |          |        |
| Test Number       |          |         |          |        |
| Unit              | V        | V       |          |        |
| Max Limit         | 1.0099   | 1.0099  |          |        |
| Min Limit         | 0.58     | 0.58    |          |        |
| kRad(Si)          | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                | 61       | 0.860   | 0.794    | -0.065 |
| 20                | 62       | 0.820   | 0.750    | -0.070 |
| 20                | 63       | 0.832   | 0.729    | -0.103 |
| 20                | 64       | 0.839   | 0.746    | -0.093 |
| 20                | 65       | 0.864   | 0.767    | -0.097 |
| 20                | 67       | 0.874   | 0.796    | -0.078 |
| 20                | 68       | 0.893   | 0.813    | -0.080 |
| 20                | 69       | 0.866   | 0.758    | -0.108 |
| 20                | 70       | 0.866   | 0.744    | -0.122 |
| 20                | 71       | 0.872   | 0.792    | -0.080 |
| 20                | 72       | 0.849   | 0.763    | -0.086 |
| 20                | 73       | 0.849   | 0.758    | -0.091 |
| 20                | 74       | 0.849   | 0.769    | -0.080 |
| 20                | 75       | 0.847   | 0.758    | -0.089 |
| 20                | 76       | 0.855   | 0.761    | -0.095 |
| 20                | 77       | 0.841   | 0.756    | -0.084 |
| 20                | 78       | 0.851   | 0.756    | -0.095 |
| 20                | 79       | 0.811   | 0.706    | -0.106 |
| 20                | 80       | 0.866   | 0.773    | -0.093 |
| 20                | 81       | 0.877   | 0.813    | -0.063 |
| 20                | 82       | 0.879   | 0.794    | -0.084 |
| 20                | 83       | 0.870   | 0.801    | -0.070 |
| 25                | 84       | 0.843   | 0.803    | -0.040 |
| 25                | 85       | 0.885   | 0.849    | -0.036 |
| 25                | 86       | 0.864   | 0.822    | -0.042 |
| 25                | 87       | 0.868   | 0.820    | -0.049 |
| 25                | 88       | 0.872   | 0.828    | -0.044 |
| 30                | 89       | 0.864   | 0.735    | -0.129 |
| 30                | 90       | 0.874   | 0.729    | -0.146 |
| 30                | 91       | 0.843   | 0.701    | -0.141 |
| 30                | 92       | 0.845   | 0.735    | -0.110 |
| 30                | 93       | 0.868   | 0.737    | -0.131 |
| 35                | 94       | 0.864   | 0.782    | -0.082 |
| 35                | 95       | 0.860   | 0.801    | -0.059 |
| 35                | 96       | 0.900   | 0.839    | -0.061 |
| 35                | 97       | 0.887   | 0.832    | -0.055 |
| 35                | 98       | 0.836   | 0.765    | -0.072 |
| Max               |          | 0.900   | 0.849    | -0.036 |
| Average           |          | 0.860   | 0.775    | -0.085 |
| Min               |          | 0.811   | 0.701    | -0.146 |
| Std Dev           |          | 0.019   | 0.037    | 0.028  |



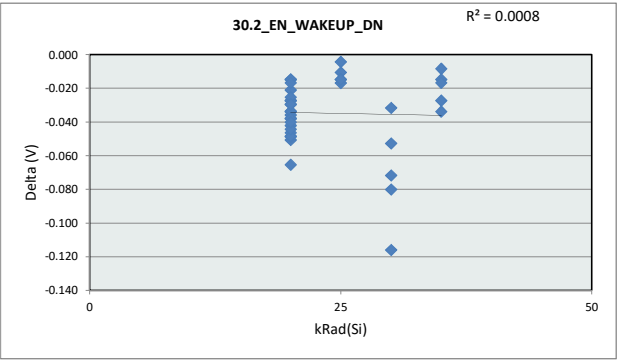
| 30.1_EN_WAKEUP_UP |        |       |       |       |
|-------------------|--------|-------|-------|-------|
| Test Site         |        |       |       |       |
| Tester            |        |       |       |       |
| Test Number       |        |       |       |       |
| Max Limit         | 1.0099 | V     |       |       |
| Min Limit         | 0.58   | V     |       |       |
| kRad(Si)          | 20     | 25    | 30    | 35    |
| LL                | 0.580  | 0.580 | 0.580 | 0.580 |
| Min               | 0.706  | 0.803 | 0.702 | 0.765 |
| Average           | 0.768  | 0.824 | 0.728 | 0.804 |
| Max               | 0.813  | 0.849 | 0.737 | 0.839 |
| UL                | 1.010  | 1.010 | 1.010 | 1.010 |



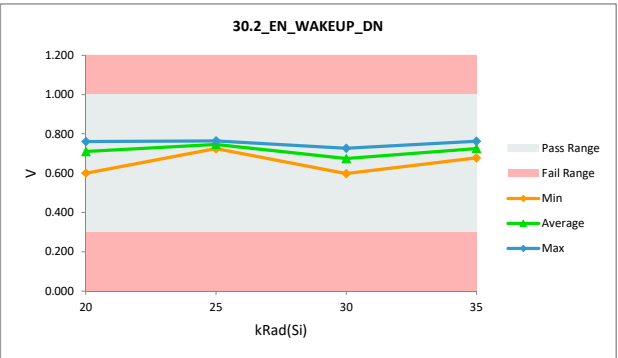
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 30.2_EN_WAKEUP_DN |          |         |          |        |
|-------------------|----------|---------|----------|--------|
| Test Site         |          |         |          |        |
| Tester            |          |         |          |        |
| Test Number       |          |         |          |        |
| Unit              | V        | V       |          |        |
| Max Limit         | 1        | 1       |          |        |
| Min Limit         | 0.3      | 0.3     |          |        |
| kRad(Si)          | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                | 61       | 0.746   | 0.704    | -0.042 |
| 20                | 62       | 0.733   | 0.718    | -0.015 |
| 20                | 63       | 0.710   | 0.659    | -0.051 |
| 20                | 64       | 0.794   | 0.746    | -0.049 |
| 20                | 65       | 0.716   | 0.678    | -0.038 |
| 20                | 67       | 0.763   | 0.748    | -0.015 |
| 20                | 68       | 0.756   | 0.720    | -0.036 |
| 20                | 69       | 0.788   | 0.761    | -0.027 |
| 20                | 70       | 0.763   | 0.735    | -0.027 |
| 20                | 71       | 0.746   | 0.712    | -0.034 |
| 20                | 72       | 0.769   | 0.748    | -0.021 |
| 20                | 73       | 0.725   | 0.691    | -0.034 |
| 20                | 74       | 0.666   | 0.600    | -0.065 |
| 20                | 75       | 0.756   | 0.727    | -0.030 |
| 20                | 76       | 0.693   | 0.647    | -0.046 |
| 20                | 77       | 0.723   | 0.674    | -0.049 |
| 20                | 78       | 0.763   | 0.737    | -0.025 |
| 20                | 79       | 0.727   | 0.683    | -0.044 |
| 20                | 80       | 0.773   | 0.756    | -0.017 |
| 20                | 81       | 0.773   | 0.735    | -0.038 |
| 20                | 82       | 0.742   | 0.712    | -0.029 |
| 20                | 83       | 0.775   | 0.735    | -0.040 |
| 25                | 84       | 0.758   | 0.748    | -0.011 |
| 25                | 85       | 0.758   | 0.744    | -0.015 |
| 25                | 86       | 0.782   | 0.765    | -0.017 |
| 25                | 87       | 0.739   | 0.725    | -0.015 |
| 25                | 88       | 0.754   | 0.750    | -0.004 |
| 30                | 89       | 0.714   | 0.598    | -0.116 |
| 30                | 90       | 0.708   | 0.676    | -0.032 |
| 30                | 91       | 0.780   | 0.727    | -0.053 |
| 30                | 92       | 0.748   | 0.668    | -0.080 |
| 30                | 93       | 0.775   | 0.704    | -0.072 |
| 35                | 94       | 0.777   | 0.763    | -0.015 |
| 35                | 95       | 0.716   | 0.708    | -0.008 |
| 35                | 96       | 0.706   | 0.678    | -0.027 |
| 35                | 97       | 0.771   | 0.754    | -0.017 |
| 35                | 98       | 0.758   | 0.725    | -0.034 |
| Max               |          | 0.794   | 0.765    | -0.004 |
| Average           |          | 0.747   | 0.712    | -0.035 |
| Min               |          | 0.666   | 0.598    | -0.116 |
| Std Dev           |          | 0.030   | 0.042    | 0.022  |



| 30.2_EN_WAKEUP_DN |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| Test Site         |       |       |       |       |
| Tester            |       |       |       |       |
| Test Number       |       |       |       |       |
| Max Limit         | 1     | V     |       |       |
| Min Limit         | 0.3   | V     |       |       |
| kRad(Si)          | 20    | 25    | 30    | 35    |
| LL                | 0.300 | 0.300 | 0.300 | 0.300 |
| Min               | 0.600 | 0.725 | 0.598 | 0.678 |
| Average           | 0.710 | 0.746 | 0.675 | 0.726 |
| Max               | 0.761 | 0.765 | 0.727 | 0.763 |
| UL                | 1.000 | 1.000 | 1.000 | 1.000 |

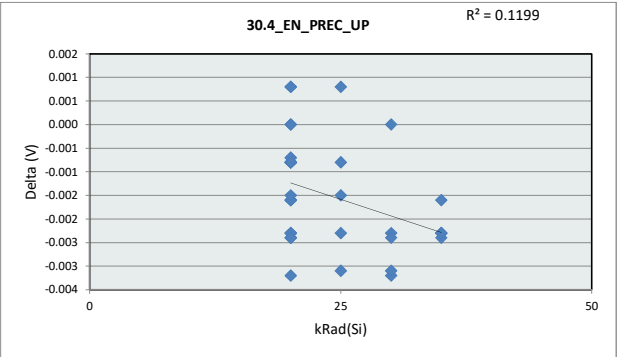


# HDR TID Report

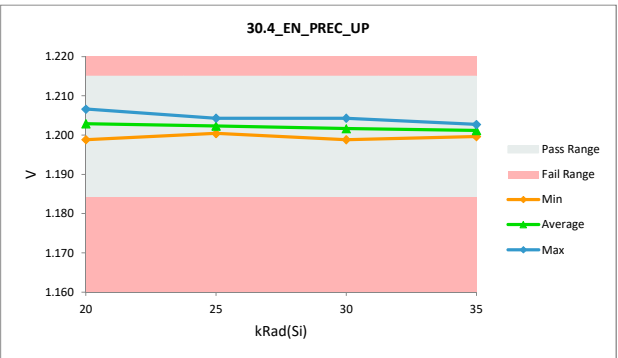
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 30.4_EN_PREC_UP |          |         |          |        |
|-----------------|----------|---------|----------|--------|
| Test Site       |          |         |          |        |
| Tester          |          |         |          |        |
| Test Number     |          |         |          |        |
| Unit            | V        | V       |          |        |
| Max Limit       | 1.215    | 1.215   |          |        |
| Min Limit       | 1.184    | 1.184   |          |        |
| kRad(Si)        | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20              | 61       | 1.203   | 1.202    | -0.001 |
| 20              | 62       | 1.204   | 1.202    | -0.002 |
| 20              | 63       | 1.204   | 1.204    | 0.001  |
| 20              | 64       | 1.204   | 1.204    | -0.001 |
| 20              | 65       | 1.204   | 1.204    | -0.001 |
| 20              | 67       | 1.204   | 1.201    | -0.002 |
| 20              | 68       | 1.205   | 1.203    | -0.002 |
| 20              | 69       | 1.205   | 1.204    | -0.002 |
| 20              | 70       | 1.204   | 1.204    | 0.000  |
| 20              | 71       | 1.204   | 1.201    | -0.002 |
| 20              | 72       | 1.205   | 1.204    | -0.002 |
| 20              | 73       | 1.203   | 1.203    | 0.000  |
| 20              | 74       | 1.201   | 1.199    | -0.002 |
| 20              | 75       | 1.206   | 1.203    | -0.003 |
| 20              | 76       | 1.202   | 1.201    | -0.001 |
| 20              | 77       | 1.205   | 1.204    | -0.001 |
| 20              | 78       | 1.206   | 1.204    | -0.002 |
| 20              | 79       | 1.203   | 1.202    | -0.001 |
| 20              | 80       | 1.204   | 1.204    | -0.001 |
| 20              | 81       | 1.209   | 1.207    | -0.002 |
| 20              | 82       | 1.203   | 1.201    | -0.002 |
| 20              | 83       | 1.204   | 1.205    | 0.001  |
| 25              | 84       | 1.204   | 1.204    | 0.001  |
| 25              | 85       | 1.204   | 1.202    | -0.002 |
| 25              | 86       | 1.204   | 1.203    | -0.001 |
| 25              | 87       | 1.204   | 1.202    | -0.002 |
| 25              | 88       | 1.204   | 1.200    | -0.003 |
| 30              | 89       | 1.203   | 1.203    | 0.000  |
| 30              | 90       | 1.202   | 1.199    | -0.003 |
| 30              | 91       | 1.207   | 1.204    | -0.002 |
| 30              | 92       | 1.203   | 1.200    | -0.003 |
| 30              | 93       | 1.205   | 1.203    | -0.002 |
| 35              | 94       | 1.201   | 1.200    | -0.002 |
| 35              | 95       | 1.204   | 1.201    | -0.002 |
| 35              | 96       | 1.205   | 1.203    | -0.002 |
| 35              | 97       | 1.204   | 1.202    | -0.002 |
| 35              | 98       | 1.203   | 1.200    | -0.002 |
| Max             |          | 1.209   | 1.207    | 0.001  |
| Average         |          | 1.204   | 1.202    | -0.002 |
| Min             |          | 1.201   | 1.199    | -0.003 |
| Std Dev         |          | 0.002   | 0.002    | 0.001  |



| 30.4_EN_PREC_UP |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| Test Site       |       |       |       |       |
| Tester          |       |       |       |       |
| Test Number     |       |       |       |       |
| Max Limit       | 1.215 | V     |       |       |
| Min Limit       | 1.184 | V     |       |       |
| kRad(Si)        | 20    | 25    | 30    | 35    |
| LL              | 1.184 | 1.184 | 1.184 | 1.184 |
| Min             | 1.199 | 1.200 | 1.199 | 1.200 |
| Average         | 1.203 | 1.202 | 1.202 | 1.201 |
| Max             | 1.207 | 1.204 | 1.204 | 1.203 |
| UL              | 1.215 | 1.215 | 1.215 | 1.215 |

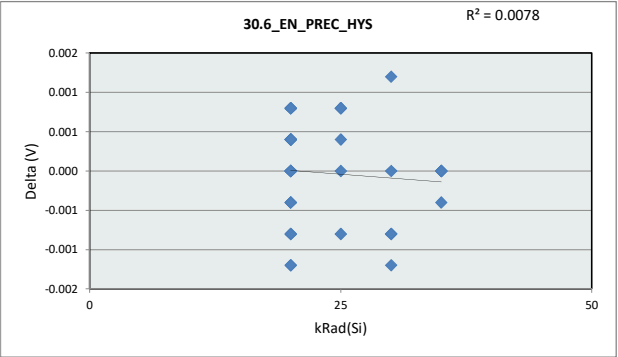




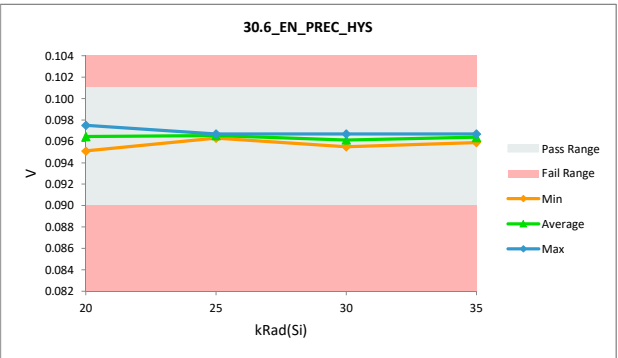
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 30.6_EN_PREC_HYS |          |         |          |        |
|------------------|----------|---------|----------|--------|
| Test Site        |          |         |          |        |
| Tester           |          |         |          |        |
| Test Number      |          |         |          |        |
| Unit             |          | V       | V        |        |
| Max Limit        |          | 0.101   | 0.101    |        |
| Min Limit        |          | 0.09    | 0.09     |        |
| kRad(Si)         | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20               | 61       | 0.096   | 0.097    | 0.000  |
| 20               | 62       | 0.097   | 0.097    | 0.000  |
| 20               | 63       | 0.096   | 0.097    | 0.001  |
| 20               | 64       | 0.097   | 0.097    | 0.000  |
| 20               | 65       | 0.097   | 0.097    | 0.000  |
| 20               | 67       | 0.096   | 0.096    | 0.000  |
| 20               | 68       | 0.097   | 0.096    | -0.001 |
| 20               | 69       | 0.096   | 0.096    | 0.000  |
| 20               | 70       | 0.097   | 0.096    | -0.001 |
| 20               | 71       | 0.096   | 0.096    | 0.000  |
| 20               | 72       | 0.096   | 0.096    | 0.000  |
| 20               | 73       | 0.097   | 0.097    | 0.000  |
| 20               | 74       | 0.096   | 0.096    | 0.000  |
| 20               | 75       | 0.096   | 0.095    | -0.001 |
| 20               | 76       | 0.097   | 0.097    | 0.000  |
| 20               | 77       | 0.096   | 0.097    | 0.000  |
| 20               | 78       | 0.096   | 0.097    | 0.001  |
| 20               | 79       | 0.096   | 0.097    | 0.000  |
| 20               | 80       | 0.097   | 0.096    | -0.001 |
| 20               | 81       | 0.097   | 0.097    | 0.000  |
| 20               | 82       | 0.097   | 0.097    | 0.000  |
| 20               | 83       | 0.095   | 0.096    | 0.001  |
| 25               | 84       | 0.096   | 0.097    | 0.001  |
| 25               | 85       | 0.097   | 0.097    | 0.000  |
| 25               | 86       | 0.096   | 0.096    | 0.000  |
| 25               | 87       | 0.096   | 0.097    | 0.001  |
| 25               | 88       | 0.097   | 0.096    | -0.001 |
| 30               | 89       | 0.095   | 0.096    | 0.001  |
| 30               | 90       | 0.097   | 0.096    | -0.001 |
| 30               | 91       | 0.097   | 0.097    | 0.000  |
| 30               | 92       | 0.096   | 0.095    | -0.001 |
| 30               | 93       | 0.097   | 0.096    | -0.001 |
| 35               | 94       | 0.097   | 0.097    | 0.000  |
| 35               | 95       | 0.096   | 0.096    | 0.000  |
| 35               | 96       | 0.096   | 0.096    | 0.000  |
| 35               | 97       | 0.097   | 0.097    | 0.000  |
| 35               | 98       | 0.096   | 0.096    | 0.000  |
| Max              |          | 0.097   | 0.097    | 0.001  |
| Average          |          | 0.096   | 0.096    | 0.000  |
| Min              |          | 0.095   | 0.095    | -0.001 |
| Std Dev          |          | 0.001   | 0.001    | 0.001  |



| 30.6_EN_PREC_HYS |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        |       | 0.101 | V     |       |
| Min Limit        |       | 0.09  | V     |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 0.090 | 0.090 | 0.090 | 0.090 |
| Min              | 0.095 | 0.096 | 0.096 | 0.096 |
| Average          | 0.096 | 0.097 | 0.096 | 0.096 |
| Max              | 0.098 | 0.097 | 0.097 | 0.097 |
| UL               | 0.101 | 0.101 | 0.101 | 0.101 |

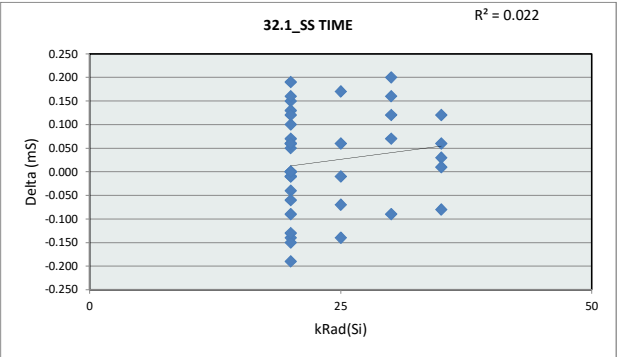


# HDR TID Report

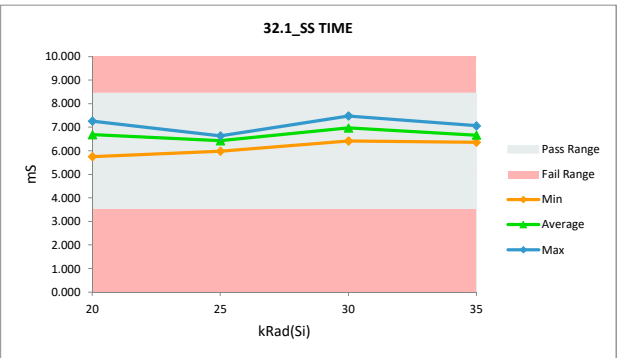
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.1_SS TIME |          |         |          |        |
|--------------|----------|---------|----------|--------|
| Test Site    |          |         |          |        |
| Tester       |          |         |          |        |
| Test Number  |          |         |          |        |
| Unit         |          | mS      | mS       |        |
| Max Limit    |          | 8.45    | 8.45     |        |
| Min Limit    |          | 3.5     | 3.5      |        |
| kRad(Si)     | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20           | 61       | 6.590   | 6.590    | 0.000  |
| 20           | 62       | 6.490   | 6.540    | 0.050  |
| 20           | 63       | 6.990   | 6.980    | -0.010 |
| 20           | 64       | 6.440   | 6.540    | 0.100  |
| 20           | 65       | 6.660   | 6.650    | -0.010 |
| 20           | 67       | 6.700   | 6.700    | 0.000  |
| 20           | 68       | 6.710   | 6.670    | -0.040 |
| 20           | 69       | 7.080   | 6.940    | -0.140 |
| 20           | 70       | 6.970   | 7.030    | 0.060  |
| 20           | 71       | 5.900   | 5.750    | -0.150 |
| 20           | 72       | 6.760   | 6.910    | 0.150  |
| 20           | 73       | 6.590   | 6.400    | -0.190 |
| 20           | 74       | 6.520   | 6.650    | 0.130  |
| 20           | 75       | 6.560   | 6.560    | 0.000  |
| 20           | 76       | 6.970   | 6.840    | -0.130 |
| 20           | 77       | 7.190   | 7.260    | 0.070  |
| 20           | 78       | 6.210   | 6.270    | 0.060  |
| 20           | 79       | 6.610   | 6.550    | -0.060 |
| 20           | 80       | 6.470   | 6.630    | 0.160  |
| 20           | 81       | 6.630   | 6.820    | 0.190  |
| 20           | 82       | 7.010   | 7.130    | 0.120  |
| 20           | 83       | 6.730   | 6.640    | -0.090 |
| 25           | 84       | 6.370   | 6.540    | 0.170  |
| 25           | 85       | 6.120   | 5.980    | -0.140 |
| 25           | 86       | 6.480   | 6.410    | -0.070 |
| 25           | 87       | 6.610   | 6.600    | -0.010 |
| 25           | 88       | 6.570   | 6.630    | 0.060  |
| 30           | 89       | 6.340   | 6.410    | 0.070  |
| 30           | 90       | 6.990   | 7.150    | 0.160  |
| 30           | 91       | 6.720   | 6.840    | 0.120  |
| 30           | 92       | 6.740   | 6.940    | 0.200  |
| 30           | 93       | 7.570   | 7.480    | -0.090 |
| 35           | 94       | 7.030   | 7.060    | 0.030  |
| 35           | 95       | 6.880   | 6.800    | -0.080 |
| 35           | 96       | 6.390   | 6.510    | 0.120  |
| 35           | 97       | 6.300   | 6.360    | 0.060  |
| 35           | 98       | 6.570   | 6.580    | 0.010  |
| Max          |          | 7.570   | 7.480    | 0.200  |
| Average      |          | 6.661   | 6.685    | 0.024  |
| Min          |          | 5.900   | 5.750    | -0.190 |
| Std Dev      |          | 0.321   | 0.335    | 0.106  |



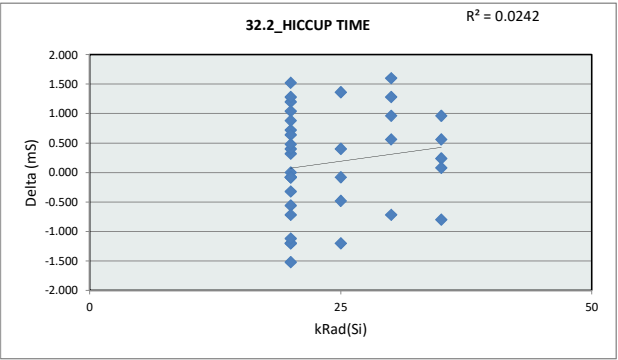
| 32.1_SS TIME |       |       |       |       |
|--------------|-------|-------|-------|-------|
| Test Site    |       |       |       |       |
| Tester       |       |       |       |       |
| Test Number  |       |       |       |       |
| Max Limit    | 8.45  | mS    |       |       |
| Min Limit    | 3.5   | mS    |       |       |
| kRad(Si)     | 20    | 25    | 30    | 35    |
| LL           | 3.500 | 3.500 | 3.500 | 3.500 |
| Min          | 5.750 | 5.980 | 6.410 | 6.360 |
| Average      | 6.684 | 6.432 | 6.964 | 6.662 |
| Max          | 7.260 | 6.630 | 7.480 | 7.060 |
| UL           | 8.450 | 8.450 | 8.450 | 8.450 |



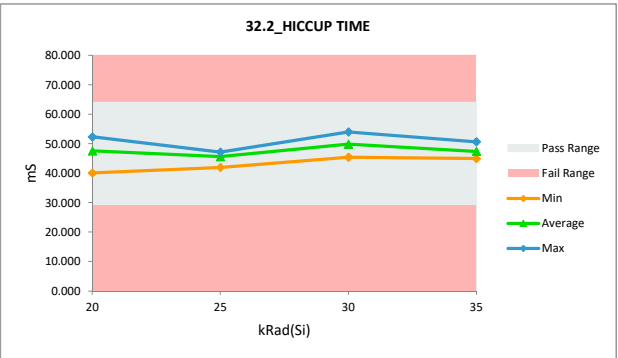
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.2_HICCUP TIME |          |         |          |        |
|------------------|----------|---------|----------|--------|
| Test Site        |          |         |          |        |
| Tester           |          |         |          |        |
| Test Number      |          |         |          |        |
| Unit             | mS       |         | mS       |        |
| Max Limit        | 64       |         | 64       |        |
| Min Limit        | 29       |         | 29       |        |
| kRad(Si)         | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20               | 61       | 46.880  | 46.880   | 0.000  |
| 20               | 62       | 46.000  | 46.320   | 0.320  |
| 20               | 63       | 50.000  | 49.920   | -0.080 |
| 20               | 64       | 45.600  | 46.320   | 0.720  |
| 20               | 65       | 47.360  | 47.280   | -0.080 |
| 20               | 67       | 47.760  | 47.680   | -0.080 |
| 20               | 68       | 47.760  | 47.440   | -0.320 |
| 20               | 69       | 50.720  | 49.520   | -1.200 |
| 20               | 70       | 49.920  | 50.320   | 0.400  |
| 20               | 71       | 41.280  | 40.080   | -1.200 |
| 20               | 72       | 48.160  | 49.360   | 1.200  |
| 20               | 73       | 46.800  | 45.280   | -1.520 |
| 20               | 74       | 46.240  | 47.280   | 1.040  |
| 20               | 75       | 46.640  | 46.560   | -0.080 |
| 20               | 76       | 49.920  | 48.800   | -1.120 |
| 20               | 77       | 51.680  | 52.320   | 0.640  |
| 20               | 78       | 43.840  | 44.320   | 0.480  |
| 20               | 79       | 47.120  | 46.560   | -0.560 |
| 20               | 80       | 45.920  | 47.200   | 1.280  |
| 20               | 81       | 47.200  | 48.720   | 1.520  |
| 20               | 82       | 50.240  | 51.120   | 0.880  |
| 20               | 83       | 48.000  | 47.280   | -0.720 |
| 25               | 84       | 45.120  | 46.480   | 1.360  |
| 25               | 85       | 43.120  | 41.920   | -1.200 |
| 25               | 86       | 45.920  | 45.440   | -0.480 |
| 25               | 87       | 46.960  | 46.880   | -0.080 |
| 25               | 88       | 46.720  | 47.120   | 0.400  |
| 30               | 89       | 44.800  | 45.360   | 0.560  |
| 30               | 90       | 50.000  | 51.280   | 1.280  |
| 30               | 91       | 47.920  | 48.880   | 0.960  |
| 30               | 92       | 48.080  | 49.680   | 1.600  |
| 30               | 93       | 54.720  | 54.000   | -0.720 |
| 35               | 94       | 50.400  | 50.640   | 0.240  |
| 35               | 95       | 49.200  | 48.400   | -0.800 |
| 35               | 96       | 45.280  | 46.240   | 0.960  |
| 35               | 97       | 44.400  | 44.960   | 0.560  |
| 35               | 98       | 46.640  | 46.720   | 0.080  |
| Max              |          | 54.720  | 54.000   | 1.600  |
| Average          |          | 47.414  | 47.583   | 0.169  |
| Min              |          | 41.280  | 40.080   | -1.520 |
| Std Dev          |          | 2.575   | 2.687    | 0.860  |



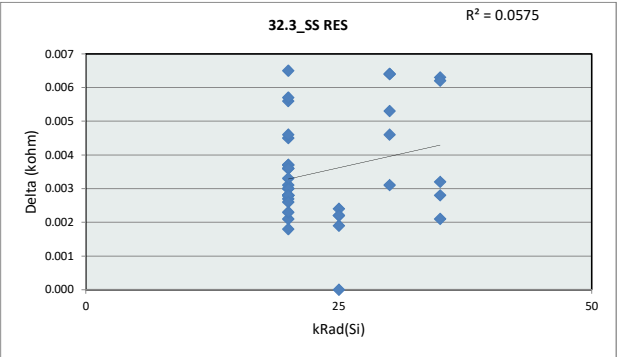
| 32.2_HICCUP TIME |        |        |        |        |
|------------------|--------|--------|--------|--------|
| Test Site        |        |        |        |        |
| Tester           |        |        |        |        |
| Test Number      |        |        |        |        |
| Max Limit        | 64     | mS     |        |        |
| Min Limit        | 29     | mS     |        |        |
| kRad(Si)         | 20     | 25     | 30     | 35     |
| LL               | 29.000 | 29.000 | 29.000 | 29.000 |
| Min              | 40.080 | 41.920 | 45.360 | 44.960 |
| Average          | 47.571 | 45.568 | 49.840 | 47.392 |
| Max              | 52.320 | 47.120 | 54.000 | 50.640 |
| UL               | 64.000 | 64.000 | 64.000 | 64.000 |



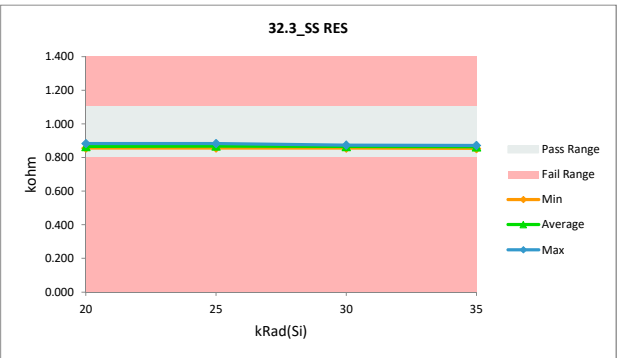
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.3_SS RES |          |         |          |       |
|-------------|----------|---------|----------|-------|
| Test Site   |          |         |          |       |
| Tester      |          |         |          |       |
| Test Number |          |         |          |       |
| Unit        | kohm     | kohm    |          |       |
| Max Limit   | 1.1      | 1.1     |          |       |
| Min Limit   | 0.8      | 0.8     |          |       |
| kRad(Si)    | Serial # | Pre_HDR | Post_HDR | Delta |
| 20          | 61       | 0.854   | 0.857    | 0.003 |
| 20          | 62       | 0.865   | 0.868    | 0.003 |
| 20          | 63       | 0.863   | 0.866    | 0.003 |
| 20          | 64       | 0.861   | 0.864    | 0.003 |
| 20          | 65       | 0.872   | 0.876    | 0.004 |
| 20          | 67       | 0.855   | 0.858    | 0.003 |
| 20          | 68       | 0.872   | 0.874    | 0.002 |
| 20          | 69       | 0.867   | 0.872    | 0.004 |
| 20          | 70       | 0.872   | 0.875    | 0.004 |
| 20          | 71       | 0.856   | 0.858    | 0.002 |
| 20          | 72       | 0.853   | 0.856    | 0.003 |
| 20          | 73       | 0.868   | 0.874    | 0.006 |
| 20          | 74       | 0.855   | 0.861    | 0.006 |
| 20          | 75       | 0.854   | 0.858    | 0.003 |
| 20          | 76       | 0.863   | 0.867    | 0.004 |
| 20          | 77       | 0.868   | 0.872    | 0.004 |
| 20          | 78       | 0.854   | 0.857    | 0.003 |
| 20          | 79       | 0.877   | 0.883    | 0.007 |
| 20          | 80       | 0.865   | 0.868    | 0.003 |
| 20          | 81       | 0.866   | 0.868    | 0.002 |
| 20          | 82       | 0.856   | 0.859    | 0.003 |
| 20          | 83       | 0.864   | 0.868    | 0.005 |
| 25          | 84       | 0.869   | 0.872    | 0.002 |
| 25          | 85       | 0.855   | 0.857    | 0.002 |
| 25          | 86       | 0.880   | 0.882    | 0.002 |
| 25          | 87       | 0.869   | 0.871    | 0.002 |
| 25          | 88       | 0.858   | 0.858    | 0.000 |
| 30          | 89       | 0.856   | 0.862    | 0.006 |
| 30          | 90       | 0.850   | 0.856    | 0.006 |
| 30          | 91       | 0.871   | 0.874    | 0.003 |
| 30          | 92       | 0.856   | 0.860    | 0.005 |
| 30          | 93       | 0.867   | 0.872    | 0.005 |
| 35          | 94       | 0.867   | 0.870    | 0.003 |
| 35          | 95       | 0.856   | 0.863    | 0.006 |
| 35          | 96       | 0.851   | 0.854    | 0.002 |
| 35          | 97       | 0.868   | 0.871    | 0.003 |
| 35          | 98       | 0.851   | 0.857    | 0.006 |
| Max         |          | 0.880   | 0.883    | 0.007 |
| Average     |          | 0.862   | 0.866    | 0.004 |
| Min         |          | 0.850   | 0.854    | 0.000 |
| Std Dev     |          | 0.008   | 0.008    | 0.002 |



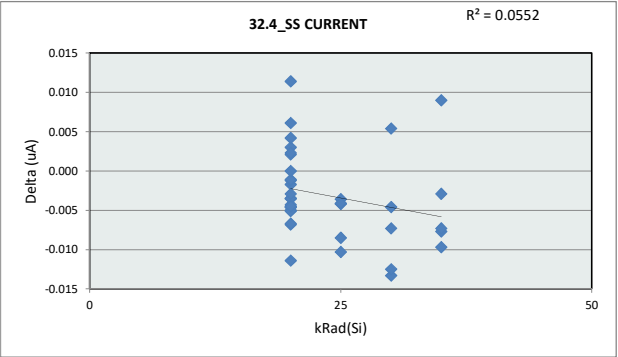
| 32.3_SS RES |       |       |       |       |
|-------------|-------|-------|-------|-------|
| Test Site   |       |       |       |       |
| Tester      |       |       |       |       |
| Test Number |       |       |       |       |
| Max Limit   | 1.1   | kohm  |       |       |
| Min Limit   | 0.8   | kohm  |       |       |
| kRad(Si)    | 20    | 25    | 30    | 35    |
| LL          | 0.800 | 0.800 | 0.800 | 0.800 |
| Min         | 0.856 | 0.857 | 0.856 | 0.854 |
| Average     | 0.866 | 0.868 | 0.865 | 0.863 |
| Max         | 0.883 | 0.882 | 0.874 | 0.871 |
| UL          | 1.100 | 1.100 | 1.100 | 1.100 |



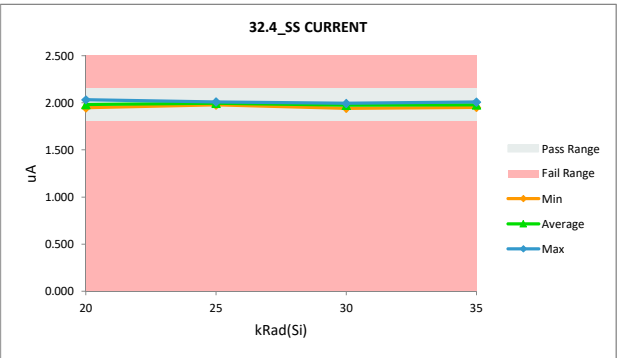
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.4_SS CURRENT |          |         |          |        |
|-----------------|----------|---------|----------|--------|
| Test Site       |          |         |          |        |
| Tester          |          |         |          |        |
| Test Number     |          |         |          |        |
| Unit            |          | uA      | uA       |        |
| Max Limit       |          | 2.15    | 2.15     |        |
| Min Limit       |          | 1.8     | 1.8      |        |
| kRad(Si)        | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20              | 61       | 1.950   | 1.948    | -0.002 |
| 20              | 62       | 1.971   | 1.967    | -0.004 |
| 20              | 63       | 2.018   | 2.015    | -0.003 |
| 20              | 64       | 1.969   | 1.958    | -0.011 |
| 20              | 65       | 2.013   | 2.009    | -0.005 |
| 20              | 67       | 1.954   | 1.947    | -0.007 |
| 20              | 68       | 2.009   | 2.011    | 0.002  |
| 20              | 69       | 1.965   | 1.968    | 0.003  |
| 20              | 70       | 1.973   | 1.976    | 0.002  |
| 20              | 71       | 2.011   | 2.016    | 0.004  |
| 20              | 72       | 1.959   | 1.955    | -0.003 |
| 20              | 73       | 1.957   | 1.956    | -0.001 |
| 20              | 74       | 1.983   | 1.978    | -0.005 |
| 20              | 75       | 1.998   | 1.996    | -0.003 |
| 20              | 76       | 1.964   | 1.971    | 0.006  |
| 20              | 77       | 1.973   | 1.967    | -0.007 |
| 20              | 78       | 1.998   | 1.993    | -0.005 |
| 20              | 79       | 2.021   | 2.033    | 0.011  |
| 20              | 80       | 2.000   | 1.995    | -0.005 |
| 20              | 81       | 1.986   | 1.982    | -0.004 |
| 20              | 82       | 1.963   | 1.962    | -0.001 |
| 20              | 83       | 2.016   | 2.016    | 0.000  |
| 25              | 84       | 1.983   | 1.979    | -0.004 |
| 25              | 85       | 2.018   | 2.010    | -0.009 |
| 25              | 86       | 2.000   | 1.997    | -0.004 |
| 25              | 87       | 2.013   | 2.002    | -0.010 |
| 25              | 88       | 1.997   | 1.993    | -0.004 |
| 30              | 89       | 1.989   | 1.995    | 0.005  |
| 30              | 90       | 1.988   | 1.983    | -0.005 |
| 30              | 91       | 1.973   | 1.959    | -0.013 |
| 30              | 92       | 2.005   | 1.992    | -0.012 |
| 30              | 93       | 1.950   | 1.943    | -0.007 |
| 35              | 94       | 1.961   | 1.953    | -0.008 |
| 35              | 95       | 1.960   | 1.969    | 0.009  |
| 35              | 96       | 1.998   | 1.991    | -0.007 |
| 35              | 97       | 2.012   | 2.009    | -0.003 |
| 35              | 98       | 1.977   | 1.967    | -0.010 |
| Max             |          | 2.021   | 2.033    | 0.011  |
| Average         |          | 1.986   | 1.983    | -0.003 |
| Min             |          | 1.950   | 1.943    | -0.013 |
| Std Dev         |          | 0.022   | 0.023    | 0.006  |



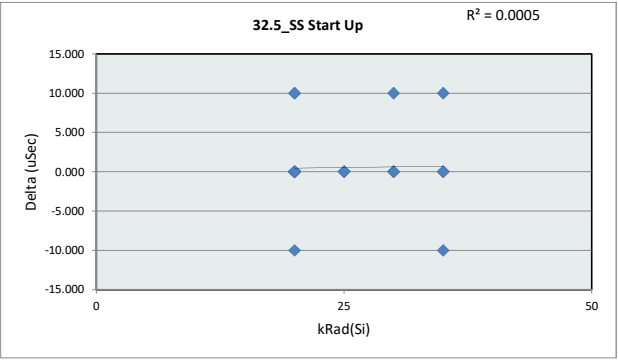
| 32.4_SS CURRENT |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| Test Site       |       |       |       |       |
| Tester          |       |       |       |       |
| Test Number     |       |       |       |       |
| Max Limit       |       | 2.15  | uA    |       |
| Min Limit       |       | 1.8   | uA    |       |
| kRad(Si)        | 20    | 25    | 30    | 35    |
| LL              | 1.800 | 1.800 | 1.800 | 1.800 |
| Min             | 1.948 | 1.979 | 1.943 | 1.953 |
| Average         | 1.983 | 1.996 | 1.975 | 1.978 |
| Max             | 2.033 | 2.010 | 1.995 | 2.009 |
| UL              | 2.150 | 2.150 | 2.150 | 2.150 |



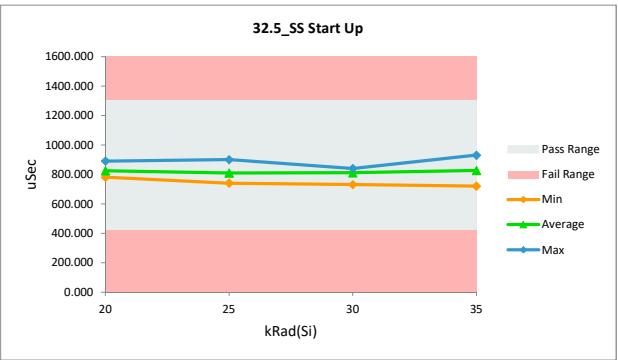
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.5_SS Start Up |          |         |          |         |
|------------------|----------|---------|----------|---------|
| Test Site        |          |         |          |         |
| Tester           |          |         |          |         |
| Test Number      |          |         |          |         |
| Unit             | uSec     | uSec    |          |         |
| Max Limit        | 1300     | 1300    |          |         |
| Min Limit        | 420      | 420     |          |         |
| kRad(Si)         | Serial # | Pre_HDR | Post_HDR | Delta   |
| 20               | 61       | 860.000 | 860.000  | 0.000   |
| 20               | 62       | 780.000 | 780.000  | 0.000   |
| 20               | 63       | 850.000 | 850.000  | 0.000   |
| 20               | 64       | 820.000 | 810.000  | -10.000 |
| 20               | 65       | 880.000 | 890.000  | 10.000  |
| 20               | 67       | 870.000 | 870.000  | 0.000   |
| 20               | 68       | 820.000 | 820.000  | 0.000   |
| 20               | 69       | 780.000 | 780.000  | 0.000   |
| 20               | 70       | 780.000 | 780.000  | 0.000   |
| 20               | 71       | 840.000 | 840.000  | 0.000   |
| 20               | 72       | 830.000 | 830.000  | 0.000   |
| 20               | 73       | 820.000 | 830.000  | 10.000  |
| 20               | 74       | 870.000 | 870.000  | 0.000   |
| 20               | 75       | 830.000 | 830.000  | 0.000   |
| 20               | 76       | 850.000 | 850.000  | 0.000   |
| 20               | 77       | 810.000 | 810.000  | 0.000   |
| 20               | 78       | 800.000 | 800.000  | 0.000   |
| 20               | 79       | 810.000 | 810.000  | 0.000   |
| 20               | 80       | 790.000 | 790.000  | 0.000   |
| 20               | 81       | 810.000 | 810.000  | 0.000   |
| 20               | 82       | 820.000 | 820.000  | 0.000   |
| 20               | 83       | 790.000 | 790.000  | 0.000   |
| 25               | 84       | 740.000 | 740.000  | 0.000   |
| 25               | 85       | 900.000 | 900.000  | 0.000   |
| 25               | 86       | 760.000 | 760.000  | 0.000   |
| 25               | 87       | 810.000 | 810.000  | 0.000   |
| 25               | 88       | 830.000 | 830.000  | 0.000   |
| 30               | 89       | 840.000 | 840.000  | 0.000   |
| 30               | 90       | 820.000 | 830.000  | 10.000  |
| 30               | 91       | 730.000 | 730.000  | 0.000   |
| 30               | 92       | 820.000 | 820.000  | 0.000   |
| 30               | 93       | 830.000 | 830.000  | 0.000   |
| 35               | 94       | 720.000 | 720.000  | 0.000   |
| 35               | 95       | 860.000 | 870.000  | 10.000  |
| 35               | 96       | 940.000 | 930.000  | -10.000 |
| 35               | 97       | 810.000 | 810.000  | 0.000   |
| 35               | 98       | 800.000 | 800.000  | 0.000   |
| Max              |          | 940.000 | 930.000  | 10.000  |
| Average          |          | 819.459 | 820.000  | 0.541   |
| Min              |          | 720.000 | 720.000  | -10.000 |
| Std Dev          |          | 44.594  | 44.659   | 4.046   |



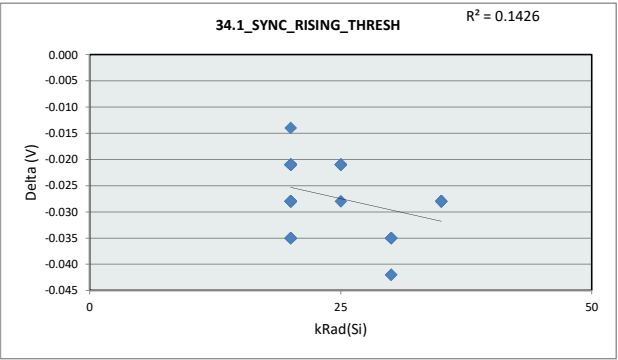
| 32.5_SS Start Up |          |          |          |          |
|------------------|----------|----------|----------|----------|
| Test Site        |          |          |          |          |
| Tester           |          |          |          |          |
| Test Number      |          |          |          |          |
| Max Limit        | 1300     | uSec     |          |          |
| Min Limit        | 420      | uSec     |          |          |
| kRad(Si)         | 20       | 25       | 30       | 35       |
| LL               | 420.000  | 420.000  | 420.000  | 420.000  |
| Min              | 780.000  | 740.000  | 730.000  | 720.000  |
| Average          | 823.636  | 808.000  | 810.000  | 826.000  |
| Max              | 890.000  | 900.000  | 840.000  | 930.000  |
| UL               | 1300.000 | 1300.000 | 1300.000 | 1300.000 |



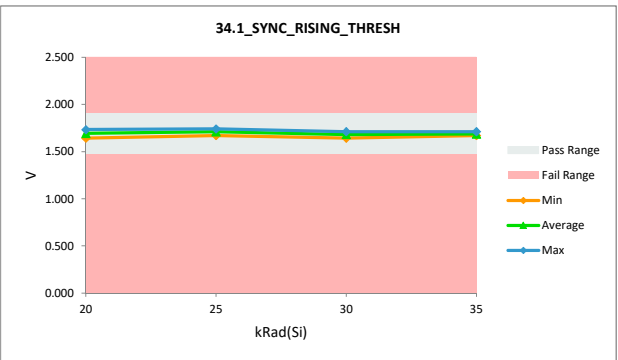
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.1_SYNC_RISING_THRESH |          |         |          |        |
|-------------------------|----------|---------|----------|--------|
| Test Site               |          |         |          |        |
| Tester                  |          |         |          |        |
| Test Number             |          |         |          |        |
| Unit                    |          | V       | V        |        |
| Max Limit               |          | 1.9     | 1.9      |        |
| Min Limit               |          | 1.47    | 1.47     |        |
| kRad(Si)                | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                      | 61       | 1.691   | 1.670    | -0.021 |
| 20                      | 62       | 1.691   | 1.663    | -0.028 |
| 20                      | 63       | 1.705   | 1.691    | -0.014 |
| 20                      | 64       | 1.726   | 1.698    | -0.028 |
| 20                      | 65       | 1.705   | 1.677    | -0.028 |
| 20                      | 67       | 1.712   | 1.691    | -0.021 |
| 20                      | 68       | 1.754   | 1.726    | -0.028 |
| 20                      | 69       | 1.733   | 1.712    | -0.021 |
| 20                      | 70       | 1.705   | 1.684    | -0.021 |
| 20                      | 71       | 1.761   | 1.733    | -0.028 |
| 20                      | 72       | 1.733   | 1.712    | -0.021 |
| 20                      | 73       | 1.747   | 1.726    | -0.021 |
| 20                      | 74       | 1.740   | 1.705    | -0.035 |
| 20                      | 75       | 1.740   | 1.705    | -0.035 |
| 20                      | 76       | 1.698   | 1.670    | -0.028 |
| 20                      | 77       | 1.691   | 1.663    | -0.028 |
| 20                      | 78       | 1.670   | 1.649    | -0.021 |
| 20                      | 79       | 1.677   | 1.642    | -0.035 |
| 20                      | 80       | 1.740   | 1.712    | -0.028 |
| 20                      | 81       | 1.712   | 1.684    | -0.028 |
| 20                      | 82       | 1.740   | 1.719    | -0.021 |
| 20                      | 83       | 1.747   | 1.726    | -0.021 |
| 25                      | 84       | 1.761   | 1.740    | -0.021 |
| 25                      | 85       | 1.733   | 1.705    | -0.028 |
| 25                      | 86       | 1.691   | 1.670    | -0.021 |
| 25                      | 87       | 1.761   | 1.740    | -0.021 |
| 25                      | 88       | 1.719   | 1.698    | -0.021 |
| 30                      | 89       | 1.677   | 1.642    | -0.035 |
| 30                      | 90       | 1.754   | 1.712    | -0.042 |
| 30                      | 91       | 1.740   | 1.705    | -0.035 |
| 30                      | 92       | 1.705   | 1.670    | -0.035 |
| 30                      | 93       | 1.719   | 1.677    | -0.042 |
| 35                      | 94       | 1.712   | 1.684    | -0.028 |
| 35                      | 95       | 1.705   | 1.677    | -0.028 |
| 35                      | 96       | 1.698   | 1.670    | -0.028 |
| 35                      | 97       | 1.740   | 1.712    | -0.028 |
| 35                      | 98       | 1.712   | 1.684    | -0.028 |
| Max                     |          | 1.761   | 1.740    | -0.014 |
| Average                 |          | 1.720   | 1.693    | -0.027 |
| Min                     |          | 1.670   | 1.642    | -0.042 |
| Std Dev                 |          | 0.026   | 0.026    | 0.006  |



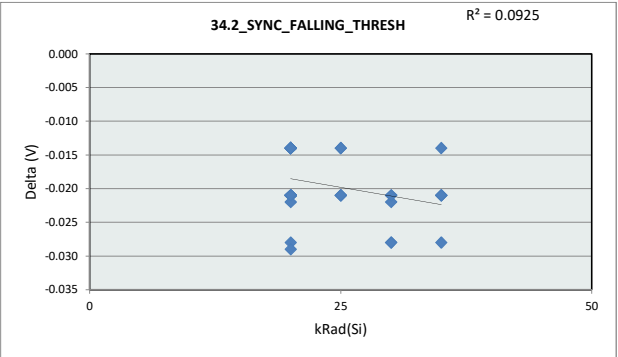
| 34.1_SYNC_RISING_THRESH |       |       |       |       |
|-------------------------|-------|-------|-------|-------|
| Test Site               |       |       |       |       |
| Tester                  |       |       |       |       |
| Test Number             |       |       |       |       |
| Max Limit               |       | 1.9   | V     |       |
| Min Limit               |       | 1.47  | V     |       |
| kRad(Si)                | 20    | 25    | 30    | 35    |
| LL                      | 1.470 | 1.470 | 1.470 | 1.470 |
| Min                     | 1.642 | 1.670 | 1.642 | 1.670 |
| Average                 | 1.694 | 1.711 | 1.681 | 1.685 |
| Max                     | 1.733 | 1.740 | 1.712 | 1.712 |
| UL                      | 1.900 | 1.900 | 1.900 | 1.900 |



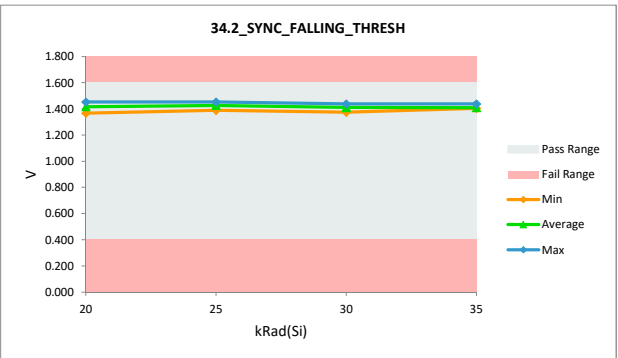
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.2_SYNC_FALLING_THRESH |          |         |          |        |
|--------------------------|----------|---------|----------|--------|
| Test Site                |          |         |          |        |
| Tester                   |          |         |          |        |
| Test Number              |          |         |          |        |
| Unit                     |          | V       | V        |        |
| Max Limit                |          | 1.6     | 1.6      |        |
| Min Limit                |          | 0.4     | 0.4      |        |
| kRad(Si)                 | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                       | 61       | 1.417   | 1.396    | -0.021 |
| 20                       | 62       | 1.417   | 1.396    | -0.021 |
| 20                       | 63       | 1.438   | 1.424    | -0.014 |
| 20                       | 64       | 1.431   | 1.417    | -0.014 |
| 20                       | 65       | 1.431   | 1.410    | -0.021 |
| 20                       | 67       | 1.431   | 1.417    | -0.014 |
| 20                       | 68       | 1.466   | 1.438    | -0.028 |
| 20                       | 69       | 1.452   | 1.438    | -0.014 |
| 20                       | 70       | 1.417   | 1.403    | -0.014 |
| 20                       | 71       | 1.466   | 1.452    | -0.014 |
| 20                       | 72       | 1.445   | 1.431    | -0.014 |
| 20                       | 73       | 1.466   | 1.445    | -0.021 |
| 20                       | 74       | 1.452   | 1.431    | -0.021 |
| 20                       | 75       | 1.452   | 1.431    | -0.021 |
| 20                       | 76       | 1.417   | 1.396    | -0.021 |
| 20                       | 77       | 1.410   | 1.389    | -0.021 |
| 20                       | 78       | 1.396   | 1.374    | -0.022 |
| 20                       | 79       | 1.396   | 1.367    | -0.029 |
| 20                       | 80       | 1.445   | 1.431    | -0.014 |
| 20                       | 81       | 1.424   | 1.403    | -0.021 |
| 20                       | 82       | 1.452   | 1.438    | -0.014 |
| 20                       | 83       | 1.459   | 1.445    | -0.014 |
| 25                       | 84       | 1.466   | 1.445    | -0.021 |
| 25                       | 85       | 1.452   | 1.431    | -0.021 |
| 25                       | 86       | 1.410   | 1.389    | -0.021 |
| 25                       | 87       | 1.466   | 1.452    | -0.014 |
| 25                       | 88       | 1.431   | 1.417    | -0.014 |
| 30                       | 89       | 1.396   | 1.374    | -0.022 |
| 30                       | 90       | 1.466   | 1.438    | -0.028 |
| 30                       | 91       | 1.459   | 1.438    | -0.021 |
| 30                       | 92       | 1.424   | 1.403    | -0.021 |
| 30                       | 93       | 1.431   | 1.403    | -0.028 |
| 35                       | 94       | 1.424   | 1.403    | -0.021 |
| 35                       | 95       | 1.424   | 1.403    | -0.021 |
| 35                       | 96       | 1.424   | 1.403    | -0.021 |
| 35                       | 97       | 1.452   | 1.438    | -0.014 |
| 35                       | 98       | 1.431   | 1.403    | -0.028 |
| Max                      |          | 1.466   | 1.452    | -0.014 |
| Average                  |          | 1.436   | 1.417    | -0.020 |
| Min                      |          | 1.396   | 1.367    | -0.029 |
| Std Dev                  |          | 0.021   | 0.023    | 0.005  |



| 34.2_SYNC_FALLING_THRESH |       |       |       |       |
|--------------------------|-------|-------|-------|-------|
| Test Site                |       |       |       |       |
| Tester                   |       |       |       |       |
| Test Number              |       |       |       |       |
| Max Limit                |       | 1.6   | V     |       |
| Min Limit                |       | 0.4   | V     |       |
| kRad(Si)                 | 20    | 25    | 30    | 35    |
| LL                       | 0.400 | 0.400 | 0.400 | 0.400 |
| Min                      | 1.367 | 1.389 | 1.374 | 1.403 |
| Average                  | 1.417 | 1.427 | 1.411 | 1.410 |
| Max                      | 1.452 | 1.452 | 1.438 | 1.438 |
| UL                       | 1.600 | 1.600 | 1.600 | 1.600 |

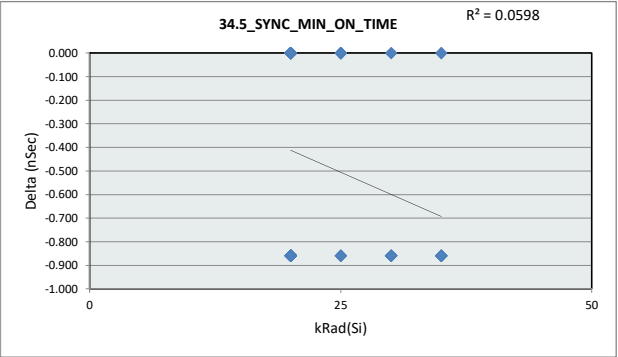




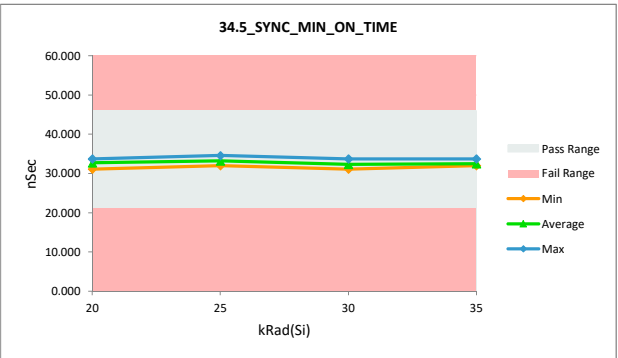
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.5_SYNC_MIN_ON_TIME |          |         |          |        |
|-----------------------|----------|---------|----------|--------|
| Test Site             |          |         |          |        |
| Tester                |          |         |          |        |
| Test Number           |          |         |          |        |
| Unit                  |          | nSec    | nSec     |        |
| Max Limit             |          | 46      | 46       |        |
| Min Limit             |          | 21      | 21       |        |
| kRad(Si)              | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                    | 61       | 31.992  | 31.992   | 0.000  |
| 20                    | 62       | 31.992  | 31.133   | -0.859 |
| 20                    | 63       | 32.852  | 32.852   | 0.000  |
| 20                    | 64       | 32.852  | 32.852   | 0.000  |
| 20                    | 65       | 32.852  | 32.852   | 0.000  |
| 20                    | 67       | 32.852  | 31.992   | -0.860 |
| 20                    | 68       | 34.570  | 33.711   | -0.859 |
| 20                    | 69       | 33.711  | 33.711   | 0.000  |
| 20                    | 70       | 32.852  | 32.852   | 0.000  |
| 20                    | 71       | 33.711  | 33.711   | 0.000  |
| 20                    | 72       | 33.711  | 32.852   | -0.859 |
| 20                    | 73       | 34.570  | 33.711   | -0.859 |
| 20                    | 74       | 33.711  | 32.852   | -0.859 |
| 20                    | 75       | 33.711  | 32.852   | -0.859 |
| 20                    | 76       | 31.992  | 31.992   | 0.000  |
| 20                    | 77       | 31.992  | 31.992   | 0.000  |
| 20                    | 78       | 31.133  | 31.133   | 0.000  |
| 20                    | 79       | 31.992  | 31.133   | -0.859 |
| 20                    | 80       | 33.711  | 33.711   | 0.000  |
| 20                    | 81       | 33.711  | 32.852   | -0.859 |
| 20                    | 82       | 33.711  | 32.852   | -0.859 |
| 20                    | 83       | 34.570  | 33.711   | -0.859 |
| 25                    | 84       | 34.570  | 33.711   | -0.859 |
| 25                    | 85       | 32.852  | 32.852   | 0.000  |
| 25                    | 86       | 32.852  | 31.992   | -0.860 |
| 25                    | 87       | 34.570  | 34.570   | 0.000  |
| 25                    | 88       | 32.852  | 32.852   | 0.000  |
| 30                    | 89       | 31.992  | 31.133   | -0.859 |
| 30                    | 90       | 33.711  | 32.852   | -0.859 |
| 30                    | 91       | 33.711  | 33.711   | 0.000  |
| 30                    | 92       | 32.852  | 31.992   | -0.860 |
| 30                    | 93       | 32.852  | 31.992   | -0.860 |
| 35                    | 94       | 33.711  | 32.852   | -0.859 |
| 35                    | 95       | 32.852  | 31.992   | -0.860 |
| 35                    | 96       | 32.852  | 31.992   | -0.860 |
| 35                    | 97       | 33.711  | 33.711   | 0.000  |
| 35                    | 98       | 32.852  | 31.992   | -0.860 |
| Max                   |          | 34.570  | 34.570   | 0.000  |
| Average               |          | 33.177  | 32.689   | -0.488 |
| Min                   |          | 31.133  | 31.133   | -0.860 |
| Std Dev               |          | 0.868   | 0.879    | 0.432  |



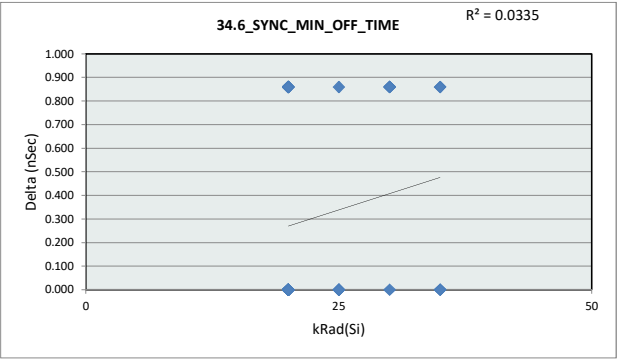
| 34.5_SYNC_MIN_ON_TIME |        |        |        |        |
|-----------------------|--------|--------|--------|--------|
| Test Site             |        |        |        |        |
| Tester                |        |        |        |        |
| Test Number           |        |        |        |        |
| Max Limit             |        | 46     | nSec   |        |
| Min Limit             |        | 21     | nSec   |        |
| kRad(Si)              | 20     | 25     | 30     | 35     |
| LL                    | 21.000 | 21.000 | 21.000 | 21.000 |
| Min                   | 31.133 | 31.992 | 31.133 | 31.992 |
| Average               | 32.696 | 33.195 | 32.336 | 32.508 |
| Max                   | 33.711 | 34.570 | 33.711 | 33.711 |
| UL                    | 46.000 | 46.000 | 46.000 | 46.000 |



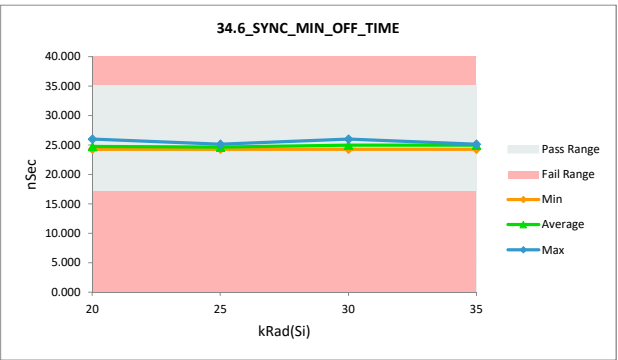
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.6_SYNC_MIN_OFF_TIME |          |         |          |       |
|------------------------|----------|---------|----------|-------|
| Test Site              |          |         |          |       |
| Tester                 |          |         |          |       |
| Test Number            |          |         |          |       |
| Unit                   | nSec     | nSec    |          |       |
| Max Limit              | 35       | 35      |          |       |
| Min Limit              | 17       | 17      |          |       |
| kRad(Si)               | Serial # | Pre_HDR | Post_HDR | Delta |
| 20                     | 61       | 24.258  | 25.117   | 0.859 |
| 20                     | 62       | 24.258  | 25.117   | 0.859 |
| 20                     | 63       | 24.258  | 24.258   | 0.000 |
| 20                     | 64       | 24.258  | 24.258   | 0.000 |
| 20                     | 65       | 25.117  | 25.117   | 0.000 |
| 20                     | 67       | 24.258  | 25.117   | 0.859 |
| 20                     | 68       | 24.258  | 24.258   | 0.000 |
| 20                     | 69       | 24.258  | 24.258   | 0.000 |
| 20                     | 70       | 25.117  | 25.117   | 0.000 |
| 20                     | 71       | 23.398  | 24.258   | 0.860 |
| 20                     | 72       | 24.258  | 24.258   | 0.000 |
| 20                     | 73       | 24.258  | 24.258   | 0.000 |
| 20                     | 74       | 24.258  | 24.258   | 0.000 |
| 20                     | 75       | 24.258  | 24.258   | 0.000 |
| 20                     | 76       | 24.258  | 25.117   | 0.859 |
| 20                     | 77       | 25.117  | 25.117   | 0.000 |
| 20                     | 78       | 25.117  | 25.117   | 0.000 |
| 20                     | 79       | 25.117  | 25.977   | 0.860 |
| 20                     | 80       | 24.258  | 25.117   | 0.859 |
| 20                     | 81       | 25.117  | 25.117   | 0.000 |
| 20                     | 82       | 24.258  | 24.258   | 0.000 |
| 20                     | 83       | 24.258  | 24.258   | 0.000 |
| 25                     | 84       | 24.258  | 24.258   | 0.000 |
| 25                     | 85       | 24.258  | 24.258   | 0.000 |
| 25                     | 86       | 25.117  | 25.117   | 0.000 |
| 25                     | 87       | 24.258  | 24.258   | 0.000 |
| 25                     | 88       | 24.258  | 25.117   | 0.859 |
| 30                     | 89       | 25.117  | 25.977   | 0.860 |
| 30                     | 90       | 23.398  | 24.258   | 0.860 |
| 30                     | 91       | 24.258  | 24.258   | 0.000 |
| 30                     | 92       | 24.258  | 25.117   | 0.859 |
| 30                     | 93       | 24.258  | 25.117   | 0.859 |
| 35                     | 94       | 25.117  | 25.117   | 0.000 |
| 35                     | 95       | 24.258  | 25.117   | 0.859 |
| 35                     | 96       | 25.117  | 25.117   | 0.000 |
| 35                     | 97       | 24.258  | 24.258   | 0.000 |
| 35                     | 98       | 24.258  | 25.117   | 0.859 |
| Max                    |          | 25.117  | 25.977   | 0.860 |
| Average                |          | 24.444  | 24.769   | 0.325 |
| Min                    |          | 23.398  | 24.258   | 0.000 |
| Std Dev                |          | 0.459   | 0.515    | 0.422 |



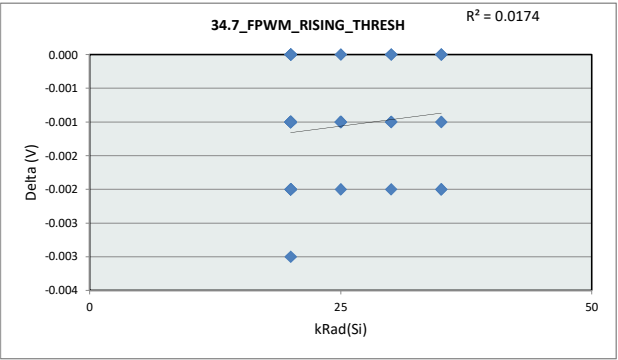
| 34.6_SYNC_MIN_OFF_TIME |        |        |        |        |
|------------------------|--------|--------|--------|--------|
| Test Site              |        |        |        |        |
| Tester                 |        |        |        |        |
| Test Number            |        |        |        |        |
| Max Limit              | 35     | nSec   |        |        |
| Min Limit              | 17     | nSec   |        |        |
| kRad(Si)               | 20     | 25     | 30     | 35     |
| LL                     | 17.000 | 17.000 | 17.000 | 17.000 |
| Min                    | 24.258 | 24.258 | 24.258 | 24.258 |
| Average                | 24.727 | 24.602 | 24.945 | 24.945 |
| Max                    | 25.977 | 25.117 | 25.977 | 25.117 |
| UL                     | 35.000 | 35.000 | 35.000 | 35.000 |



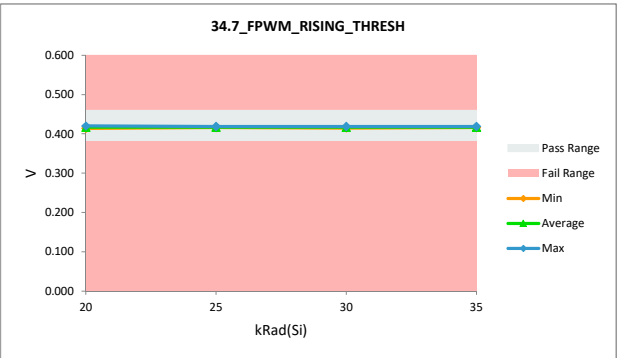
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.7_FPWM_RISING_THRESH |          |         |          |        |
|-------------------------|----------|---------|----------|--------|
| Test Site               |          |         |          |        |
| Tester                  |          |         |          |        |
| Test Number             |          |         |          |        |
| Unit                    |          | V       | V        |        |
| Max Limit               |          | 0.46    | 0.46     |        |
| Min Limit               |          | 0.38    | 0.38     |        |
| kRad(Si)                | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                      | 61       | 0.416   | 0.414    | -0.002 |
| 20                      | 62       | 0.419   | 0.417    | -0.002 |
| 20                      | 63       | 0.421   | 0.419    | -0.002 |
| 20                      | 64       | 0.419   | 0.417    | -0.002 |
| 20                      | 65       | 0.419   | 0.419    | 0.000  |
| 20                      | 67       | 0.419   | 0.417    | -0.002 |
| 20                      | 68       | 0.417   | 0.416    | -0.001 |
| 20                      | 69       | 0.416   | 0.415    | -0.001 |
| 20                      | 70       | 0.419   | 0.419    | 0.000  |
| 20                      | 71       | 0.419   | 0.419    | 0.000  |
| 20                      | 72       | 0.420   | 0.419    | -0.001 |
| 20                      | 73       | 0.417   | 0.416    | -0.001 |
| 20                      | 74       | 0.420   | 0.419    | -0.001 |
| 20                      | 75       | 0.420   | 0.417    | -0.003 |
| 20                      | 76       | 0.417   | 0.416    | -0.001 |
| 20                      | 77       | 0.416   | 0.415    | -0.001 |
| 20                      | 78       | 0.415   | 0.415    | 0.000  |
| 20                      | 79       | 0.416   | 0.415    | -0.001 |
| 20                      | 80       | 0.419   | 0.419    | 0.000  |
| 20                      | 81       | 0.421   | 0.420    | -0.001 |
| 20                      | 82       | 0.419   | 0.417    | -0.002 |
| 20                      | 83       | 0.417   | 0.415    | -0.002 |
| 25                      | 84       | 0.417   | 0.417    | 0.000  |
| 25                      | 85       | 0.417   | 0.416    | -0.001 |
| 25                      | 86       | 0.417   | 0.416    | -0.001 |
| 25                      | 87       | 0.419   | 0.417    | -0.002 |
| 25                      | 88       | 0.420   | 0.419    | -0.001 |
| 30                      | 89       | 0.420   | 0.419    | -0.001 |
| 30                      | 90       | 0.416   | 0.415    | -0.001 |
| 30                      | 91       | 0.416   | 0.416    | 0.000  |
| 30                      | 92       | 0.419   | 0.417    | -0.002 |
| 30                      | 93       | 0.417   | 0.417    | 0.000  |
| 35                      | 94       | 0.419   | 0.417    | -0.002 |
| 35                      | 95       | 0.419   | 0.417    | -0.002 |
| 35                      | 96       | 0.417   | 0.416    | -0.001 |
| 35                      | 97       | 0.419   | 0.419    | 0.000  |
| 35                      | 98       | 0.416   | 0.416    | 0.000  |
| Max                     |          | 0.421   | 0.420    | 0.000  |
| Average                 |          | 0.418   | 0.417    | -0.001 |
| Min                     |          | 0.415   | 0.414    | -0.003 |
| Std Dev                 |          | 0.002   | 0.002    | 0.001  |



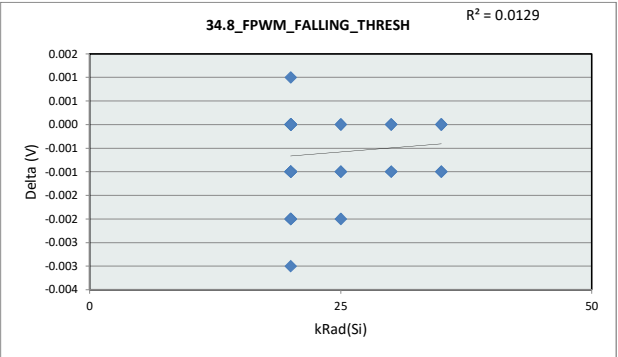
|             | 34.7_FPWM_RISING_THRESH |       |       |       |
|-------------|-------------------------|-------|-------|-------|
| Test Site   |                         |       |       |       |
| Tester      |                         |       |       |       |
| Test Number |                         |       |       |       |
| Max Limit   | 0.46                    | V     |       |       |
| Min Limit   | 0.38                    | V     |       |       |
| kRad(Si)    | 20                      | 25    | 30    | 35    |
| LL          | 0.380                   | 0.380 | 0.380 | 0.380 |
| Min         | 0.414                   | 0.416 | 0.415 | 0.416 |
| Average     | 0.417                   | 0.417 | 0.417 | 0.417 |
| Max         | 0.420                   | 0.419 | 0.419 | 0.419 |
| UL          | 0.460                   | 0.460 | 0.460 | 0.460 |
|             |                         |       |       |       |



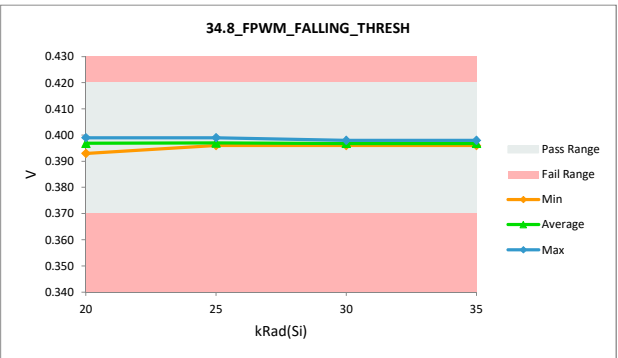
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.8_FPWM_FALLING_THRESH |          |         |          |        |
|--------------------------|----------|---------|----------|--------|
| Test Site                |          |         |          |        |
| Tester                   |          |         |          |        |
| Test Number              |          |         |          |        |
| Unit                     |          | V       | V        |        |
| Max Limit                |          | 0.42    | 0.42     |        |
| Min Limit                |          | 0.37    | 0.37     |        |
| kRad(Si)                 | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                       | 61       | 0.396   | 0.393    | -0.003 |
| 20                       | 62       | 0.398   | 0.397    | -0.001 |
| 20                       | 63       | 0.399   | 0.398    | -0.001 |
| 20                       | 64       | 0.398   | 0.398    | 0.000  |
| 20                       | 65       | 0.398   | 0.398    | 0.000  |
| 20                       | 67       | 0.398   | 0.397    | -0.001 |
| 20                       | 68       | 0.397   | 0.396    | -0.001 |
| 20                       | 69       | 0.396   | 0.396    | 0.000  |
| 20                       | 70       | 0.398   | 0.399    | 0.001  |
| 20                       | 71       | 0.398   | 0.398    | 0.000  |
| 20                       | 72       | 0.399   | 0.399    | 0.000  |
| 20                       | 73       | 0.397   | 0.397    | 0.000  |
| 20                       | 74       | 0.399   | 0.398    | -0.001 |
| 20                       | 75       | 0.399   | 0.397    | -0.002 |
| 20                       | 76       | 0.397   | 0.396    | -0.001 |
| 20                       | 77       | 0.395   | 0.395    | 0.000  |
| 20                       | 78       | 0.395   | 0.395    | 0.000  |
| 20                       | 79       | 0.395   | 0.395    | 0.000  |
| 20                       | 80       | 0.398   | 0.398    | 0.000  |
| 20                       | 81       | 0.401   | 0.399    | -0.002 |
| 20                       | 82       | 0.397   | 0.397    | 0.000  |
| 20                       | 83       | 0.397   | 0.395    | -0.002 |
| 25                       | 84       | 0.397   | 0.397    | 0.000  |
| 25                       | 85       | 0.397   | 0.396    | -0.001 |
| 25                       | 86       | 0.396   | 0.396    | 0.000  |
| 25                       | 87       | 0.398   | 0.397    | -0.001 |
| 25                       | 88       | 0.401   | 0.399    | -0.002 |
| 30                       | 89       | 0.398   | 0.398    | 0.000  |
| 30                       | 90       | 0.396   | 0.396    | 0.000  |
| 30                       | 91       | 0.397   | 0.396    | -0.001 |
| 30                       | 92       | 0.398   | 0.397    | -0.001 |
| 30                       | 93       | 0.397   | 0.397    | 0.000  |
| 35                       | 94       | 0.398   | 0.397    | -0.001 |
| 35                       | 95       | 0.397   | 0.397    | 0.000  |
| 35                       | 96       | 0.397   | 0.396    | -0.001 |
| 35                       | 97       | 0.398   | 0.398    | 0.000  |
| 35                       | 98       | 0.396   | 0.396    | 0.000  |
| Max                      |          | 0.401   | 0.399    | 0.001  |
| Average                  |          | 0.397   | 0.397    | -0.001 |
| Min                      |          | 0.395   | 0.393    | -0.003 |
| Std Dev                  |          | 0.001   | 0.001    | 0.001  |



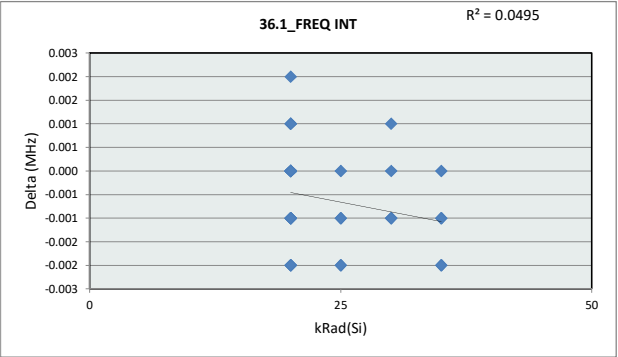
|             |       | 34.8_FPWM_FALLING_THRESH |       |       |  |
|-------------|-------|--------------------------|-------|-------|--|
| Test Site   |       |                          |       |       |  |
| Tester      |       |                          |       |       |  |
| Test Number |       |                          |       |       |  |
| Max Limit   | 0.42  | V                        |       |       |  |
| Min Limit   | 0.37  | V                        |       |       |  |
| kRad(Si)    | 20    | 25                       | 30    | 35    |  |
| LL          | 0.370 | 0.370                    | 0.370 | 0.370 |  |
| Min         | 0.393 | 0.396                    | 0.396 | 0.396 |  |
| Average     | 0.397 | 0.397                    | 0.397 | 0.397 |  |
| Max         | 0.399 | 0.399                    | 0.398 | 0.398 |  |
| UL          | 0.420 | 0.420                    | 0.420 | 0.420 |  |



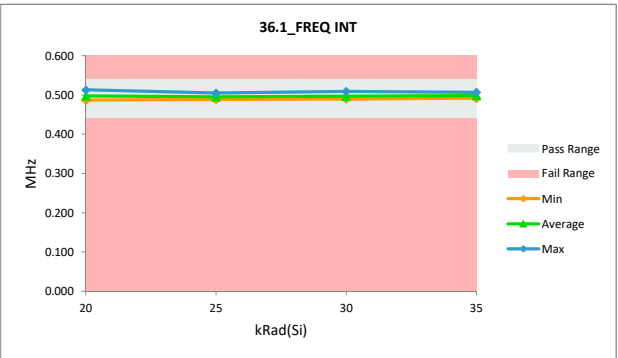
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.1_FREQ INT |          |         |          |        |
|---------------|----------|---------|----------|--------|
| Test Site     |          |         |          |        |
| Tester        |          |         |          |        |
| Test Number   |          |         |          |        |
| Unit          |          | MHz     | MHz      |        |
| Max Limit     |          | 0.54    | 0.54     |        |
| Min Limit     |          | 0.44    | 0.44     |        |
| kRad(Si)      | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20            | 61       | 0.502   | 0.502    | 0.000  |
| 20            | 62       | 0.500   | 0.498    | -0.002 |
| 20            | 63       | 0.494   | 0.495    | 0.001  |
| 20            | 64       | 0.506   | 0.506    | 0.000  |
| 20            | 65       | 0.510   | 0.510    | 0.000  |
| 20            | 67       | 0.499   | 0.501    | 0.002  |
| 20            | 68       | 0.496   | 0.496    | 0.000  |
| 20            | 69       | 0.486   | 0.487    | 0.001  |
| 20            | 70       | 0.495   | 0.494    | -0.001 |
| 20            | 71       | 0.495   | 0.494    | -0.001 |
| 20            | 72       | 0.492   | 0.492    | 0.000  |
| 20            | 73       | 0.492   | 0.491    | -0.001 |
| 20            | 74       | 0.498   | 0.496    | -0.002 |
| 20            | 75       | 0.498   | 0.497    | -0.001 |
| 20            | 76       | 0.494   | 0.492    | -0.002 |
| 20            | 77       | 0.493   | 0.492    | -0.001 |
| 20            | 78       | 0.511   | 0.511    | 0.000  |
| 20            | 79       | 0.513   | 0.513    | 0.000  |
| 20            | 80       | 0.495   | 0.496    | 0.001  |
| 20            | 81       | 0.491   | 0.489    | -0.002 |
| 20            | 82       | 0.501   | 0.501    | 0.000  |
| 20            | 83       | 0.499   | 0.498    | -0.001 |
| 25            | 84       | 0.493   | 0.492    | -0.001 |
| 25            | 85       | 0.496   | 0.496    | 0.000  |
| 25            | 86       | 0.506   | 0.505    | -0.001 |
| 25            | 87       | 0.491   | 0.489    | -0.002 |
| 25            | 88       | 0.495   | 0.493    | -0.002 |
| 30            | 89       | 0.499   | 0.500    | 0.001  |
| 30            | 90       | 0.490   | 0.490    | 0.000  |
| 30            | 91       | 0.492   | 0.491    | -0.001 |
| 30            | 92       | 0.510   | 0.509    | -0.001 |
| 30            | 93       | 0.497   | 0.496    | -0.001 |
| 35            | 94       | 0.496   | 0.494    | -0.002 |
| 35            | 95       | 0.498   | 0.498    | 0.000  |
| 35            | 96       | 0.508   | 0.507    | -0.001 |
| 35            | 97       | 0.494   | 0.492    | -0.002 |
| 35            | 98       | 0.503   | 0.502    | -0.001 |
| Max           |          | 0.513   | 0.513    | 0.002  |
| Average       |          | 0.498   | 0.497    | -0.001 |
| Min           |          | 0.486   | 0.487    | -0.002 |
| Std Dev       |          | 0.007   | 0.007    | 0.001  |



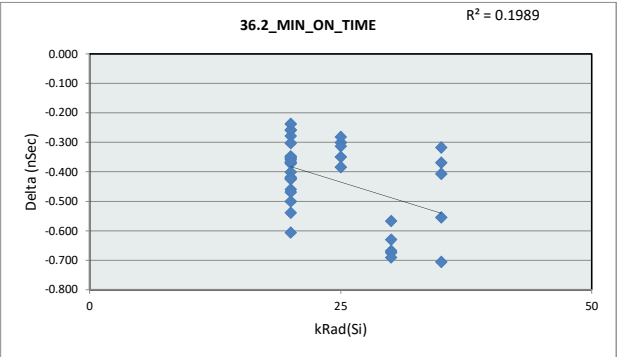
| 36.1_FREQ INT |       |       |       |       |
|---------------|-------|-------|-------|-------|
| Test Site     |       |       |       |       |
| Tester        |       |       |       |       |
| Test Number   |       |       |       |       |
| Max Limit     |       | 0.54  | MHz   |       |
| Min Limit     |       | 0.44  | MHz   |       |
| kRad(Si)      | 20    | 25    | 30    | 35    |
| LL            | 0.440 | 0.440 | 0.440 | 0.440 |
| Min           | 0.487 | 0.489 | 0.490 | 0.492 |
| Average       | 0.498 | 0.495 | 0.497 | 0.499 |
| Max           | 0.513 | 0.505 | 0.509 | 0.507 |
| UL            | 0.540 | 0.540 | 0.540 | 0.540 |



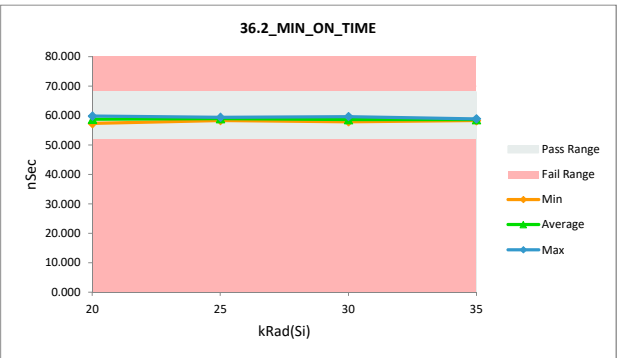
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.2_MIN_ON_TIME |          |         |          |        |
|------------------|----------|---------|----------|--------|
| Test Site        |          |         |          |        |
| Tester           |          |         |          |        |
| Test Number      |          |         |          |        |
| Unit             |          | nSec    | nSec     |        |
| Max Limit        |          | 68      | 68       |        |
| Min Limit        |          | 52      | 52       |        |
| kRad(Si)         | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20               | 61       | 59.135  | 58.734   | -0.401 |
| 20               | 62       | 59.027  | 58.768   | -0.259 |
| 20               | 63       | 59.353  | 59.005   | -0.348 |
| 20               | 64       | 59.225  | 58.803   | -0.422 |
| 20               | 65       | 59.237  | 58.958   | -0.279 |
| 20               | 67       | 58.750  | 58.492   | -0.258 |
| 20               | 68       | 60.098  | 59.492   | -0.606 |
| 20               | 69       | 59.041  | 58.540   | -0.501 |
| 20               | 70       | 59.438  | 59.135   | -0.303 |
| 20               | 71       | 58.789  | 58.437   | -0.352 |
| 20               | 72       | 59.125  | 58.706   | -0.419 |
| 20               | 73       | 59.051  | 58.679   | -0.372 |
| 20               | 74       | 58.608  | 58.148   | -0.460 |
| 20               | 75       | 59.019  | 58.661   | -0.358 |
| 20               | 76       | 58.284  | 57.861   | -0.423 |
| 20               | 77       | 58.524  | 58.156   | -0.368 |
| 20               | 78       | 59.255  | 58.716   | -0.539 |
| 20               | 79       | 57.589  | 57.238   | -0.351 |
| 20               | 80       | 59.458  | 59.033   | -0.425 |
| 20               | 81       | 59.994  | 59.756   | -0.238 |
| 20               | 82       | 58.197  | 57.728   | -0.469 |
| 20               | 83       | 60.112  | 59.744   | -0.368 |
| 25               | 84       | 59.698  | 59.314   | -0.384 |
| 25               | 85       | 58.558  | 58.257   | -0.301 |
| 25               | 86       | 59.701  | 59.388   | -0.313 |
| 25               | 87       | 59.361  | 59.079   | -0.282 |
| 25               | 88       | 58.995  | 58.645   | -0.350 |
| 30               | 89       | 58.907  | 58.340   | -0.567 |
| 30               | 90       | 59.059  | 58.391   | -0.668 |
| 30               | 91       | 59.213  | 58.583   | -0.630 |
| 30               | 92       | 58.535  | 57.861   | -0.674 |
| 30               | 93       | 60.314  | 59.623   | -0.691 |
| 35               | 94       | 59.195  | 58.640   | -0.555 |
| 35               | 95       | 59.150  | 58.832   | -0.318 |
| 35               | 96       | 59.068  | 58.699   | -0.369 |
| 35               | 97       | 58.943  | 58.237   | -0.706 |
| 35               | 98       | 58.741  | 58.334   | -0.407 |
| Max              |          | 60.314  | 59.756   | -0.238 |
| Average          |          | 59.101  | 58.676   | -0.425 |
| Min              |          | 57.589  | 57.238   | -0.706 |
| Std Dev          |          | 0.549   | 0.557    | 0.133  |



| 36.2_MIN_ON_TIME |        |        |        |        |
|------------------|--------|--------|--------|--------|
| Test Site        |        |        |        |        |
| Tester           |        |        |        |        |
| Test Number      |        |        |        |        |
| Max Limit        |        | 68     | nSec   |        |
| Min Limit        |        | 52     | nSec   |        |
| kRad(Si)         | 20     | 25     | 30     | 35     |
| LL               | 52.000 | 52.000 | 52.000 | 52.000 |
| Min              | 57.238 | 58.257 | 57.861 | 58.237 |
| Average          | 58.672 | 58.937 | 58.560 | 58.548 |
| Max              | 59.756 | 59.388 | 59.623 | 58.832 |
| UL               | 68.000 | 68.000 | 68.000 | 68.000 |

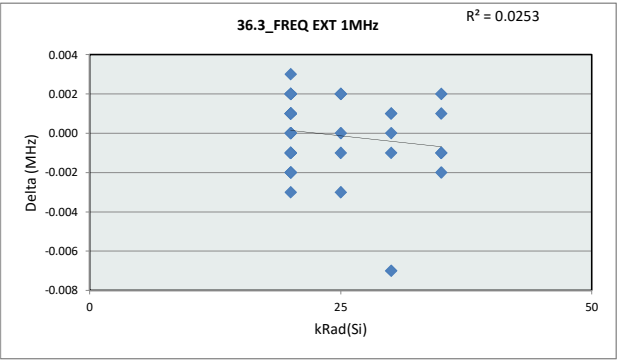


# HDR TID Report

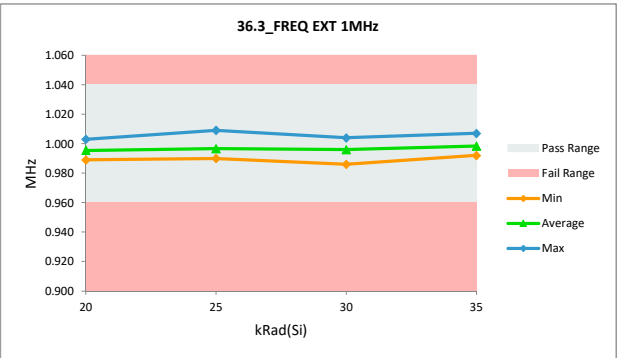
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.3_FREQ EXT 1MHz |          |         |          |        |
|--------------------|----------|---------|----------|--------|
| Test Site          |          |         |          |        |
| Tester             |          |         |          |        |
| Test Number        |          |         |          |        |
| Unit               | MHz      | MHz     |          |        |
| Max Limit          | 1.04     | 1.04    |          |        |
| Min Limit          | 0.96     | 0.96    |          |        |
| kRad(Si)           | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                 | 61       | 0.999   | 1.001    | 0.002  |
| 20                 | 62       | 0.995   | 0.992    | -0.003 |
| 20                 | 63       | 0.996   | 0.996    | 0.000  |
| 20                 | 64       | 0.994   | 0.995    | 0.001  |
| 20                 | 65       | 0.995   | 0.996    | 0.001  |
| 20                 | 67       | 0.993   | 0.996    | 0.003  |
| 20                 | 68       | 0.993   | 0.991    | -0.002 |
| 20                 | 69       | 0.998   | 0.999    | 0.001  |
| 20                 | 70       | 0.991   | 0.992    | 0.001  |
| 20                 | 71       | 0.992   | 0.992    | 0.000  |
| 20                 | 72       | 0.993   | 0.992    | -0.001 |
| 20                 | 73       | 0.995   | 0.995    | 0.000  |
| 20                 | 74       | 0.996   | 0.995    | -0.001 |
| 20                 | 75       | 0.996   | 0.994    | -0.002 |
| 20                 | 76       | 0.993   | 0.991    | -0.002 |
| 20                 | 77       | 0.994   | 0.995    | 0.001  |
| 20                 | 78       | 1.000   | 0.999    | -0.001 |
| 20                 | 79       | 1.001   | 1.003    | 0.002  |
| 20                 | 80       | 0.996   | 0.998    | 0.002  |
| 20                 | 81       | 0.990   | 0.989    | -0.001 |
| 20                 | 82       | 1.000   | 1.002    | 0.002  |
| 20                 | 83       | 0.996   | 0.997    | 0.001  |
| 25                 | 84       | 0.991   | 0.990    | -0.001 |
| 25                 | 85       | 0.993   | 0.995    | 0.002  |
| 25                 | 86       | 1.007   | 1.009    | 0.002  |
| 25                 | 87       | 1.000   | 0.997    | -0.003 |
| 25                 | 88       | 0.992   | 0.992    | 0.000  |
| 30                 | 89       | 1.004   | 1.004    | 0.000  |
| 30                 | 90       | 0.993   | 0.994    | 0.001  |
| 30                 | 91       | 0.993   | 0.986    | -0.007 |
| 30                 | 92       | 0.999   | 0.998    | -0.001 |
| 30                 | 93       | 0.997   | 0.998    | 0.001  |
| 35                 | 94       | 1.002   | 1.001    | -0.001 |
| 35                 | 95       | 0.998   | 0.997    | -0.001 |
| 35                 | 96       | 0.990   | 0.992    | 0.002  |
| 35                 | 97       | 0.997   | 0.995    | -0.002 |
| 35                 | 98       | 1.006   | 1.007    | 0.001  |
| Max                |          | 1.007   | 1.009    | 0.003  |
| Average            |          | 0.996   | 0.996    | 0.000  |
| Min                |          | 0.990   | 0.986    | -0.007 |
| Std Dev            |          | 0.004   | 0.005    | 0.002  |



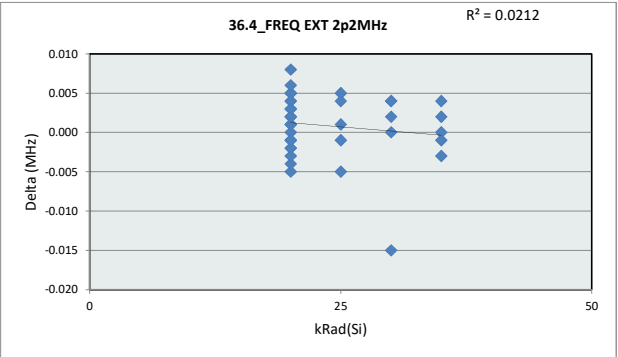
| 36.3_FREQ EXT 1MHz |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| Test Site          |       |       |       |       |
| Tester             |       |       |       |       |
| Test Number        |       |       |       |       |
| Max Limit          | 1.04  | MHz   |       |       |
| Min Limit          | 0.96  | MHz   |       |       |
| kRad(Si)           | 20    | 25    | 30    | 35    |
| LL                 | 0.960 | 0.960 | 0.960 | 0.960 |
| Min                | 0.989 | 0.990 | 0.986 | 0.992 |
| Average            | 0.995 | 0.997 | 0.996 | 0.998 |
| Max                | 1.003 | 1.009 | 1.004 | 1.007 |
| UL                 | 1.040 | 1.040 | 1.040 | 1.040 |



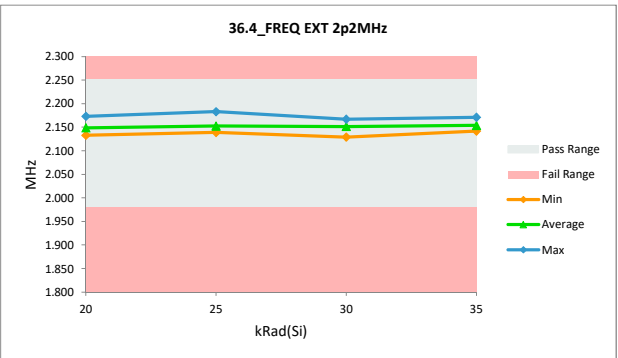
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.4_FREQ EXT 2p2MHz |          |         |          |        |
|----------------------|----------|---------|----------|--------|
| Test Site            |          |         |          |        |
| Tester               |          |         |          |        |
| Test Number          |          |         |          |        |
| Unit                 | MHz      | MHz     |          |        |
| Max Limit            | 2.25     | 2.25    |          |        |
| Min Limit            | 1.98     | 1.98    |          |        |
| kRad(Si)             | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                   | 61       | 2.153   | 2.158    | 0.005  |
| 20                   | 62       | 2.149   | 2.144    | -0.005 |
| 20                   | 63       | 2.150   | 2.151    | 0.001  |
| 20                   | 64       | 2.142   | 2.145    | 0.003  |
| 20                   | 65       | 2.152   | 2.154    | 0.002  |
| 20                   | 67       | 2.138   | 2.146    | 0.008  |
| 20                   | 68       | 2.146   | 2.142    | -0.004 |
| 20                   | 69       | 2.154   | 2.159    | 0.005  |
| 20                   | 70       | 2.141   | 2.142    | 0.001  |
| 20                   | 71       | 2.141   | 2.141    | 0.000  |
| 20                   | 72       | 2.144   | 2.146    | 0.002  |
| 20                   | 73       | 2.151   | 2.152    | 0.001  |
| 20                   | 74       | 2.148   | 2.146    | -0.002 |
| 20                   | 75       | 2.148   | 2.145    | -0.003 |
| 20                   | 76       | 2.141   | 2.140    | -0.001 |
| 20                   | 77       | 2.141   | 2.144    | 0.003  |
| 20                   | 78       | 2.157   | 2.155    | -0.002 |
| 20                   | 79       | 2.169   | 2.173    | 0.004  |
| 20                   | 80       | 2.148   | 2.154    | 0.006  |
| 20                   | 81       | 2.134   | 2.133    | -0.001 |
| 20                   | 82       | 2.152   | 2.156    | 0.004  |
| 20                   | 83       | 2.144   | 2.146    | 0.002  |
| 25                   | 84       | 2.140   | 2.139    | -0.001 |
| 25                   | 85       | 2.145   | 2.149    | 0.004  |
| 25                   | 86       | 2.178   | 2.183    | 0.005  |
| 25                   | 87       | 2.157   | 2.152    | -0.005 |
| 25                   | 88       | 2.138   | 2.139    | 0.001  |
| 30                   | 89       | 2.165   | 2.167    | 0.002  |
| 30                   | 90       | 2.145   | 2.149    | 0.004  |
| 30                   | 91       | 2.144   | 2.129    | -0.015 |
| 30                   | 92       | 2.154   | 2.154    | 0.000  |
| 30                   | 93       | 2.154   | 2.158    | 0.004  |
| 35                   | 94       | 2.157   | 2.156    | -0.001 |
| 35                   | 95       | 2.150   | 2.150    | 0.000  |
| 35                   | 96       | 2.138   | 2.142    | 0.004  |
| 35                   | 97       | 2.153   | 2.150    | -0.003 |
| 35                   | 98       | 2.169   | 2.171    | 0.002  |
| Max                  |          | 2.178   | 2.183    | 0.008  |
| Average              |          | 2.149   | 2.150    | 0.001  |
| Min                  |          | 2.134   | 2.129    | -0.015 |
| Std Dev              |          | 0.010   | 0.011    | 0.004  |



| 36.4_FREQ EXT 2p2MHz |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Test Site            |       |       |       |       |
| Tester               |       |       |       |       |
| Test Number          |       |       |       |       |
| Max Limit            | 2.25  | MHz   |       |       |
| Min Limit            | 1.98  | MHz   |       |       |
| kRad(Si)             | 20    | 25    | 30    | 35    |
| LL                   | 1.980 | 1.980 | 1.980 | 1.980 |
| Min                  | 2.133 | 2.139 | 2.129 | 2.142 |
| Average              | 2.149 | 2.152 | 2.151 | 2.154 |
| Max                  | 2.173 | 2.183 | 2.167 | 2.171 |
| UL                   | 2.250 | 2.250 | 2.250 | 2.250 |

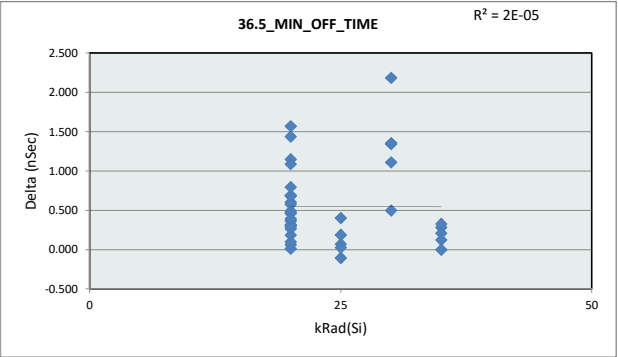




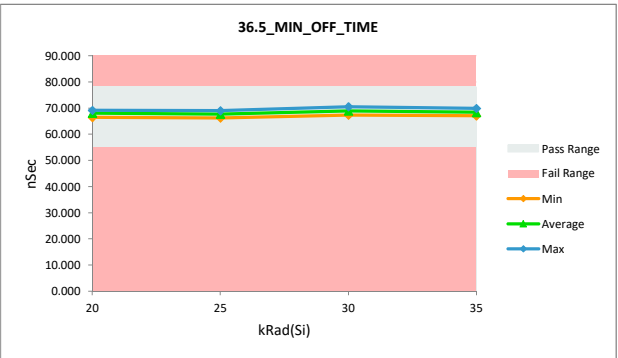
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| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.5_MIN_OFF_TIME |          |         |          |        |
|-------------------|----------|---------|----------|--------|
| Test Site         |          |         |          |        |
| Tester            |          |         |          |        |
| Test Number       |          |         |          |        |
| Unit              |          | nSec    | nSec     |        |
| Max Limit         |          | 78      | 78       |        |
| Min Limit         |          | 55      | 55       |        |
| kRad(Si)          | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                | 61       | 67.600  | 67.611   | 0.011  |
| 20                | 62       | 66.960  | 67.425   | 0.465  |
| 20                | 63       | 66.666  | 66.729   | 0.063  |
| 20                | 64       | 68.366  | 68.732   | 0.366  |
| 20                | 65       | 67.203  | 67.693   | 0.490  |
| 20                | 67       | 65.784  | 66.464   | 0.680  |
| 20                | 68       | 67.462  | 68.063   | 0.601  |
| 20                | 69       | 68.666  | 68.982   | 0.316  |
| 20                | 70       | 67.601  | 69.170   | 1.569  |
| 20                | 71       | 68.770  | 68.955   | 0.185  |
| 20                | 72       | 68.088  | 68.397   | 0.309  |
| 20                | 73       | 67.407  | 67.673   | 0.266  |
| 20                | 74       | 66.603  | 68.041   | 1.438  |
| 20                | 75       | 67.985  | 68.675   | 0.690  |
| 20                | 76       | 66.345  | 67.495   | 1.150  |
| 20                | 77       | 67.432  | 67.896   | 0.464  |
| 20                | 78       | 68.350  | 68.640   | 0.290  |
| 20                | 79       | 66.488  | 67.283   | 0.795  |
| 20                | 80       | 68.635  | 69.024   | 0.389  |
| 20                | 81       | 67.984  | 69.072   | 1.088  |
| 20                | 82       | 67.279  | 67.377   | 0.098  |
| 20                | 83       | 67.745  | 68.320   | 0.575  |
| 25                | 84       | 68.056  | 67.949   | -0.107 |
| 25                | 85       | 65.995  | 66.182   | 0.187  |
| 25                | 86       | 67.932  | 68.333   | 0.401  |
| 25                | 87       | 66.843  | 66.913   | 0.070  |
| 25                | 88       | 68.999  | 69.025   | 0.026  |
| 30                | 89       | 68.023  | 68.520   | 0.497  |
| 30                | 90       | 66.408  | 68.593   | 2.185  |
| 30                | 91       | 65.968  | 67.323   | 1.355  |
| 30                | 92       | 69.184  | 70.525   | 1.341  |
| 30                | 93       | 68.538  | 69.649   | 1.111  |
| 35                | 94       | 69.783  | 69.907   | 0.124  |
| 35                | 95       | 66.841  | 67.051   | 0.210  |
| 35                | 96       | 68.979  | 69.262   | 0.283  |
| 35                | 97       | 68.028  | 68.027   | -0.001 |
| 35                | 98       | 67.273  | 67.598   | 0.325  |
| Max               |          | 69.783  | 70.525   | 2.185  |
| Average           |          | 67.629  | 68.178   | 0.549  |
| Min               |          | 65.784  | 66.182   | -0.107 |
| Std Dev           |          | 0.980   | 0.970    | 0.523  |



| 36.5_MIN_OFF_TIME |        |        |        |        |
|-------------------|--------|--------|--------|--------|
| Test Site         |        |        |        |        |
| Tester            |        |        |        |        |
| Test Number       |        |        |        |        |
| Max Limit         |        | 78     | nSec   |        |
| Min Limit         |        | 55     | nSec   |        |
| kRad(Si)          | 20     | 25     | 30     | 35     |
| LL                | 55.000 | 55.000 | 55.000 | 55.000 |
| Min               | 66.464 | 66.182 | 67.323 | 67.051 |
| Average           | 68.078 | 67.680 | 68.922 | 68.369 |
| Max               | 69.170 | 69.025 | 70.525 | 69.907 |
| UL                | 78.000 | 78.000 | 78.000 | 78.000 |

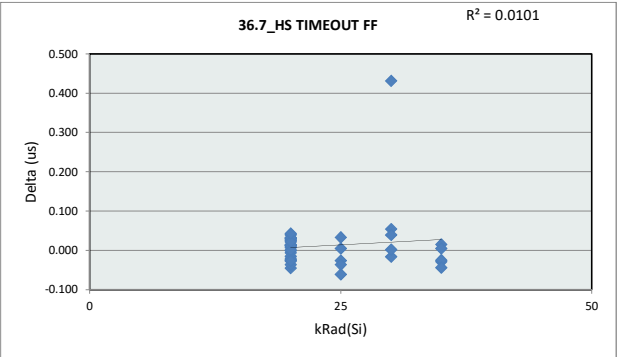


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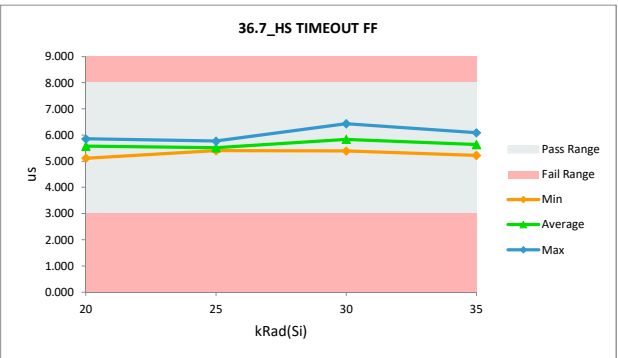
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.7_HS TIMEOUT FF |    |    |
|--------------------|----|----|
| Test Site          |    |    |
| Tester             |    |    |
| Test Number        |    |    |
| Unit               | us | us |
| Max Limit          | 8  | 8  |
| Min Limit          | 3  | 3  |

| kRad(Si) | Serial # | Pre_HDR | Post_HDR | Delta  |
|----------|----------|---------|----------|--------|
| 20       | 61       | 5.738   | 5.778    | 0.040  |
| 20       | 62       | 5.799   | 5.830    | 0.031  |
| 20       | 63       | 5.797   | 5.809    | 0.012  |
| 20       | 64       | 5.570   | 5.584    | 0.014  |
| 20       | 65       | 5.463   | 5.418    | -0.045 |
| 20       | 67       | 5.366   | 5.392    | 0.026  |
| 20       | 68       | 5.478   | 5.485    | 0.007  |
| 20       | 69       | 5.396   | 5.427    | 0.031  |
| 20       | 70       | 5.825   | 5.852    | 0.027  |
| 20       | 71       | 5.756   | 5.750    | -0.006 |
| 20       | 72       | 5.839   | 5.824    | -0.015 |
| 20       | 73       | 5.423   | 5.387    | -0.036 |
| 20       | 74       | 5.810   | 5.810    | 0.000  |
| 20       | 75       | 5.552   | 5.566    | 0.014  |
| 20       | 76       | 5.390   | 5.422    | 0.032  |
| 20       | 77       | 5.429   | 5.407    | -0.022 |
| 20       | 78       | 5.595   | 5.606    | 0.011  |
| 20       | 79       | 5.561   | 5.561    | 0.000  |
| 20       | 80       | 5.742   | 5.717    | -0.025 |
| 20       | 81       | 5.398   | 5.371    | -0.027 |
| 20       | 82       | 5.095   | 5.117    | 0.022  |
| 20       | 83       | 5.435   | 5.478    | 0.043  |
| 25       | 84       | 5.490   | 5.429    | -0.061 |
| 25       | 85       | 5.438   | 5.412    | -0.026 |
| 25       | 86       | 5.527   | 5.560    | 0.033  |
| 25       | 87       | 5.803   | 5.767    | -0.036 |
| 25       | 88       | 5.397   | 5.402    | 0.005  |
| 30       | 89       | 5.768   | 5.752    | -0.016 |
| 30       | 90       | 5.339   | 5.393    | 0.054  |
| 30       | 91       | 5.912   | 5.914    | 0.002  |
| 30       | 92       | 5.643   | 5.682    | 0.039  |
| 30       | 93       | 6.002   | 6.433    | 0.431  |
| 35       | 94       | 5.475   | 5.490    | 0.015  |
| 35       | 95       | 5.611   | 5.582    | -0.029 |
| 35       | 96       | 5.851   | 5.826    | -0.025 |
| 35       | 97       | 6.080   | 6.085    | 0.005  |
| 35       | 98       | 5.268   | 5.224    | -0.044 |
| Max      |          | 6.080   | 6.433    | 0.431  |
| Average  |          | 5.596   | 5.609    | 0.013  |
| Min      |          | 5.095   | 5.117    | -0.061 |
| Std Dev  |          | 0.221   | 0.252    | 0.076  |



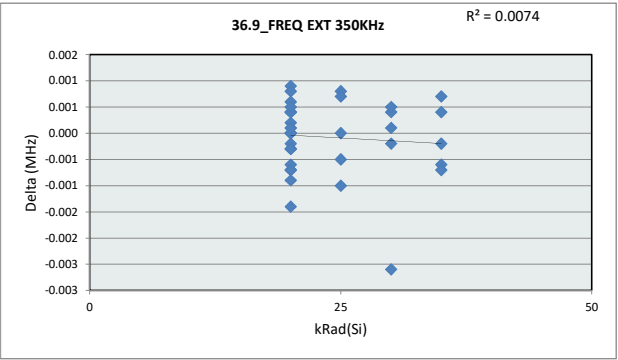
| 36.7_HS TIMEOUT FF |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| Test Site          |       |       |       |       |
| Tester             |       |       |       |       |
| Test Number        |       |       |       |       |
| Max Limit          | 8     | us    |       |       |
| Min Limit          | 3     | us    |       |       |
| kRad(Si)           | 20    | 25    | 30    | 35    |
| LL                 | 3.000 | 3.000 | 3.000 | 3.000 |
| Min                | 5.117 | 5.402 | 5.393 | 5.224 |
| Average            | 5.572 | 5.514 | 5.835 | 5.641 |
| Max                | 5.852 | 5.767 | 6.433 | 6.085 |
| UL                 | 8.000 | 8.000 | 8.000 | 8.000 |



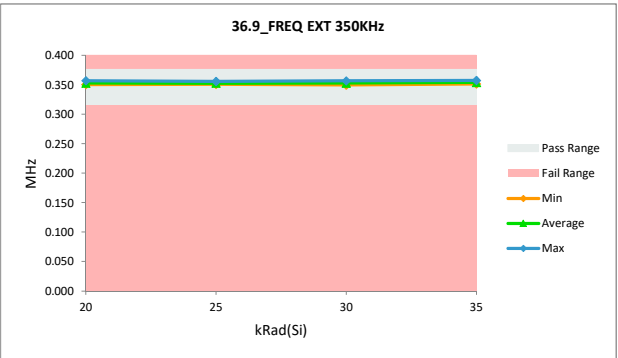
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.9_FREQ EXT 350KHz |          |         |          |        |
|----------------------|----------|---------|----------|--------|
| Test Site            |          |         |          |        |
| Tester               |          |         |          |        |
| Test Number          |          |         |          |        |
| Unit                 | MHz      | MHz     |          |        |
| Max Limit            | 0.376    | 0.376   |          |        |
| Min Limit            | 0.315    | 0.315   |          |        |
| kRad(Si)             | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                   | 61       | 0.354   | 0.355    | 0.001  |
| 20                   | 62       | 0.352   | 0.351    | -0.001 |
| 20                   | 63       | 0.353   | 0.353    | 0.000  |
| 20                   | 64       | 0.353   | 0.353    | 0.000  |
| 20                   | 65       | 0.352   | 0.352    | 0.000  |
| 20                   | 67       | 0.353   | 0.354    | 0.001  |
| 20                   | 68       | 0.351   | 0.350    | -0.001 |
| 20                   | 69       | 0.353   | 0.354    | 0.000  |
| 20                   | 70       | 0.351   | 0.351    | 0.000  |
| 20                   | 71       | 0.352   | 0.352    | 0.000  |
| 20                   | 72       | 0.351   | 0.350    | 0.000  |
| 20                   | 73       | 0.352   | 0.352    | 0.000  |
| 20                   | 74       | 0.353   | 0.353    | 0.000  |
| 20                   | 75       | 0.354   | 0.353    | -0.001 |
| 20                   | 76       | 0.352   | 0.351    | -0.001 |
| 20                   | 77       | 0.354   | 0.354    | 0.000  |
| 20                   | 78       | 0.355   | 0.354    | -0.001 |
| 20                   | 79       | 0.353   | 0.354    | 0.000  |
| 20                   | 80       | 0.353   | 0.354    | 0.001  |
| 20                   | 81       | 0.351   | 0.350    | 0.000  |
| 20                   | 82       | 0.356   | 0.357    | 0.000  |
| 20                   | 83       | 0.355   | 0.355    | 0.000  |
| 25                   | 84       | 0.351   | 0.351    | -0.001 |
| 25                   | 85       | 0.351   | 0.352    | 0.001  |
| 25                   | 86       | 0.355   | 0.356    | 0.001  |
| 25                   | 87       | 0.355   | 0.354    | -0.001 |
| 25                   | 88       | 0.351   | 0.351    | 0.000  |
| 30                   | 89       | 0.356   | 0.357    | 0.000  |
| 30                   | 90       | 0.351   | 0.351    | 0.000  |
| 30                   | 91       | 0.352   | 0.350    | -0.003 |
| 30                   | 92       | 0.354   | 0.354    | 0.000  |
| 30                   | 93       | 0.352   | 0.352    | 0.000  |
| 35                   | 94       | 0.355   | 0.355    | -0.001 |
| 35                   | 95       | 0.354   | 0.354    | 0.000  |
| 35                   | 96       | 0.351   | 0.351    | 0.001  |
| 35                   | 97       | 0.353   | 0.352    | -0.001 |
| 35                   | 98       | 0.357   | 0.357    | 0.000  |
| Max                  |          | 0.357   | 0.357    | 0.001  |
| Average              |          | 0.353   | 0.353    | 0.000  |
| Min                  |          | 0.351   | 0.350    | -0.003 |
| Std Dev              |          | 0.002   | 0.002    | 0.001  |



| 36.9_FREQ EXT 350KHz |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Test Site            |       |       |       |       |
| Tester               |       |       |       |       |
| Test Number          |       |       |       |       |
| Max Limit            | 0.376 | MHz   |       |       |
| Min Limit            | 0.315 | MHz   |       |       |
| kRad(Si)             | 20    | 25    | 30    | 35    |
| LL                   | 0.315 | 0.315 | 0.315 | 0.315 |
| Min                  | 0.350 | 0.351 | 0.350 | 0.351 |
| Average              | 0.353 | 0.353 | 0.353 | 0.354 |
| Max                  | 0.357 | 0.356 | 0.357 | 0.357 |
| UL                   | 0.376 | 0.376 | 0.376 | 0.376 |



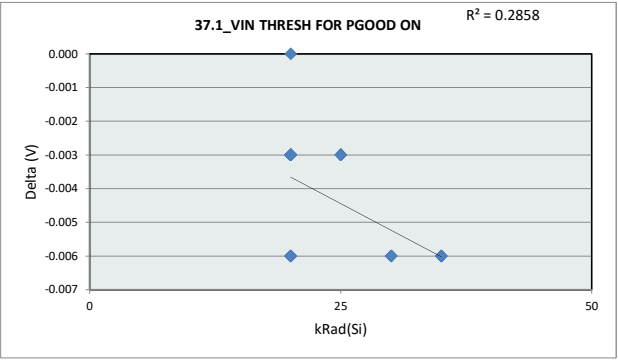
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

**37.1\_VIN THRESH FOR PGOOD ON**

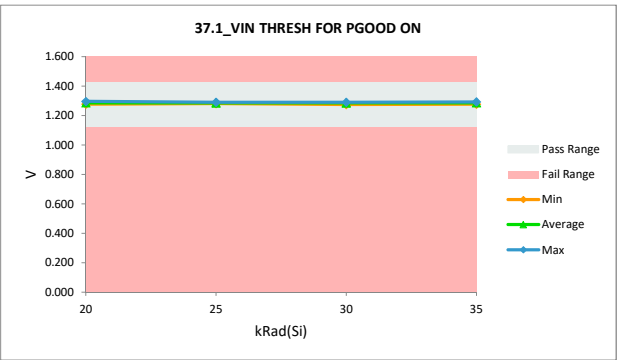
|             |      |      |
|-------------|------|------|
| Test Site   |      |      |
| Tester      |      |      |
| Test Number |      |      |
| Unit        | V    | V    |
| Max Limit   | 1.42 | 1.42 |
| Min Limit   | 1.12 | 1.12 |

| kRad(Si) | Serial # | Pre_HDR | Post_HDR | Delta  |
|----------|----------|---------|----------|--------|
| 20       | 61       | 1.289   | 1.289    | 0.000  |
| 20       | 62       | 1.280   | 1.277    | -0.003 |
| 20       | 63       | 1.283   | 1.280    | -0.003 |
| 20       | 64       | 1.289   | 1.286    | -0.003 |
| 20       | 65       | 1.286   | 1.283    | -0.003 |
| 20       | 67       | 1.286   | 1.280    | -0.006 |
| 20       | 68       | 1.295   | 1.292    | -0.003 |
| 20       | 69       | 1.301   | 1.295    | -0.006 |
| 20       | 70       | 1.286   | 1.283    | -0.003 |
| 20       | 71       | 1.289   | 1.283    | -0.006 |
| 20       | 72       | 1.289   | 1.286    | -0.003 |
| 20       | 73       | 1.286   | 1.283    | -0.003 |
| 20       | 74       | 1.283   | 1.277    | -0.006 |
| 20       | 75       | 1.292   | 1.286    | -0.006 |
| 20       | 76       | 1.292   | 1.289    | -0.003 |
| 20       | 77       | 1.283   | 1.280    | -0.003 |
| 20       | 78       | 1.286   | 1.283    | -0.003 |
| 20       | 79       | 1.283   | 1.280    | -0.003 |
| 20       | 80       | 1.301   | 1.295    | -0.006 |
| 20       | 81       | 1.295   | 1.289    | -0.006 |
| 20       | 82       | 1.286   | 1.283    | -0.003 |
| 20       | 83       | 1.298   | 1.295    | -0.003 |
| 25       | 84       | 1.292   | 1.289    | -0.003 |
| 25       | 85       | 1.286   | 1.283    | -0.003 |
| 25       | 86       | 1.283   | 1.280    | -0.003 |
| 25       | 87       | 1.283   | 1.280    | -0.003 |
| 25       | 88       | 1.292   | 1.289    | -0.003 |
| 30       | 89       | 1.280   | 1.274    | -0.006 |
| 30       | 90       | 1.292   | 1.286    | -0.006 |
| 30       | 91       | 1.295   | 1.289    | -0.006 |
| 30       | 92       | 1.289   | 1.283    | -0.006 |
| 30       | 93       | 1.295   | 1.289    | -0.006 |
| 35       | 94       | 1.298   | 1.292    | -0.006 |
| 35       | 95       | 1.283   | 1.277    | -0.006 |
| 35       | 96       | 1.295   | 1.289    | -0.006 |
| 35       | 97       | 1.295   | 1.289    | -0.006 |
| 35       | 98       | 1.286   | 1.280    | -0.006 |
|          | Max      | 1.301   | 1.295    | 0.000  |
|          | Average  | 1.289   | 1.285    | -0.004 |
|          | Min      | 1.280   | 1.274    | -0.006 |
|          | Std Dev  | 0.006   | 0.005    | 0.002  |



**37.1\_VIN THRESH FOR PGOOD**

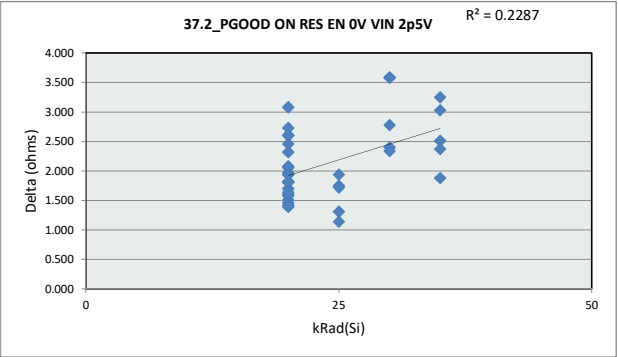
| Test Site   |       |       |       |       |
|-------------|-------|-------|-------|-------|
| Tester      |       |       |       |       |
| Test Number |       |       |       |       |
| Max Limit   | 1.42  | V     |       |       |
| Min Limit   | 1.12  | V     |       |       |
| kRad(Si)    | 20    | 25    | 30    | 35    |
| LL          | 1.120 | 1.120 | 1.120 | 1.120 |
| Min         | 1.277 | 1.280 | 1.274 | 1.277 |
| Average     | 1.285 | 1.284 | 1.284 | 1.285 |
| Max         | 1.295 | 1.289 | 1.289 | 1.292 |
| UL          | 1.420 | 1.420 | 1.420 | 1.420 |



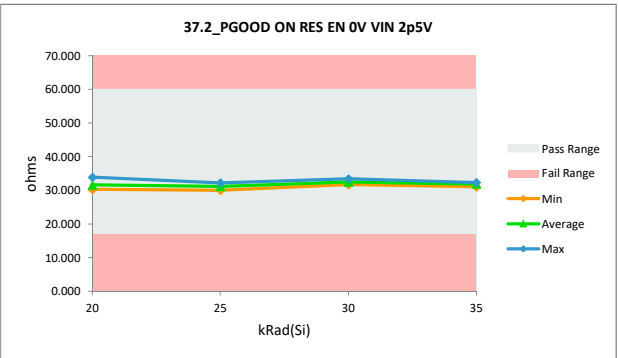
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.2_PGOOD ON RES EN 0V VIN |          |         |          |       |
|-----------------------------|----------|---------|----------|-------|
| Test Site                   |          |         |          |       |
| Tester                      |          |         |          |       |
| Test Number                 |          |         |          |       |
| Unit                        |          | ohms    | ohms     |       |
| Max Limit                   |          | 60      | 60       |       |
| Min Limit                   |          | 17      | 17       |       |
| kRad(Si)                    | Serial # | Pre_HDR | Post_HDR | Delta |
| 20                          | 61       | 29.280  | 31.250   | 1.970 |
| 20                          | 62       | 29.980  | 31.920   | 1.940 |
| 20                          | 63       | 30.660  | 33.120   | 2.460 |
| 20                          | 64       | 29.470  | 31.170   | 1.700 |
| 20                          | 65       | 30.270  | 32.590   | 2.320 |
| 20                          | 67       | 29.560  | 31.620   | 2.060 |
| 20                          | 68       | 30.010  | 31.520   | 1.510 |
| 20                          | 69       | 29.270  | 31.350   | 2.080 |
| 20                          | 70       | 29.310  | 31.130   | 1.820 |
| 20                          | 71       | 29.110  | 30.690   | 1.580 |
| 20                          | 72       | 29.410  | 31.350   | 1.940 |
| 20                          | 73       | 30.070  | 32.670   | 2.600 |
| 20                          | 74       | 29.820  | 32.550   | 2.730 |
| 20                          | 75       | 29.010  | 30.820   | 1.810 |
| 20                          | 76       | 30.550  | 33.160   | 2.610 |
| 20                          | 77       | 29.720  | 31.330   | 1.610 |
| 20                          | 78       | 28.790  | 30.250   | 1.460 |
| 20                          | 79       | 30.790  | 33.870   | 3.080 |
| 20                          | 80       | 29.240  | 30.660   | 1.420 |
| 20                          | 81       | 29.380  | 30.770   | 1.390 |
| 20                          | 82       | 28.920  | 30.560   | 1.640 |
| 20                          | 83       | 29.170  | 30.980   | 1.810 |
| 25                          | 84       | 29.110  | 30.860   | 1.750 |
| 25                          | 85       | 29.490  | 30.800   | 1.310 |
| 25                          | 86       | 30.510  | 32.230   | 1.720 |
| 25                          | 87       | 30.010  | 31.950   | 1.940 |
| 25                          | 88       | 28.840  | 29.980   | 1.140 |
| 30                          | 89       | 29.340  | 32.930   | 3.590 |
| 30                          | 90       | 29.840  | 33.420   | 3.580 |
| 30                          | 91       | 29.360  | 31.760   | 2.400 |
| 30                          | 92       | 29.830  | 32.610   | 2.780 |
| 30                          | 93       | 29.340  | 31.680   | 2.340 |
| 35                          | 94       | 29.180  | 31.550   | 2.370 |
| 35                          | 95       | 28.990  | 32.240   | 3.250 |
| 35                          | 96       | 29.140  | 31.020   | 1.880 |
| 35                          | 97       | 29.800  | 32.310   | 2.510 |
| 35                          | 98       | 29.050  | 32.080   | 3.030 |
| Max                         |          | 30.790  | 33.870   | 3.590 |
| Average                     |          | 29.557  | 31.696   | 2.139 |
| Min                         |          | 28.790  | 29.980   | 1.140 |
| Std Dev                     |          | 0.529   | 0.938    | 0.629 |



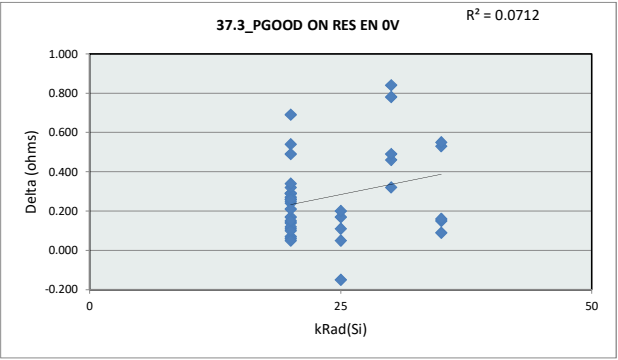
| 37.2_PGOOD ON RES EN 0V VIN |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Test Site                   |        |        |        |        |
| Tester                      |        |        |        |        |
| Test Number                 |        |        |        |        |
| Max Limit                   | 60     | ohms   |        |        |
| Min Limit                   | 17     | ohms   |        |        |
| kRad(Si)                    | 20     | 25     | 30     | 35     |
| LL                          | 17.000 | 17.000 | 17.000 | 17.000 |
| Min                         | 30.250 | 29.980 | 31.680 | 31.020 |
| Average                     | 31.606 | 31.164 | 32.480 | 31.840 |
| Max                         | 33.870 | 32.230 | 33.420 | 32.310 |
| UL                          | 60.000 | 60.000 | 60.000 | 60.000 |



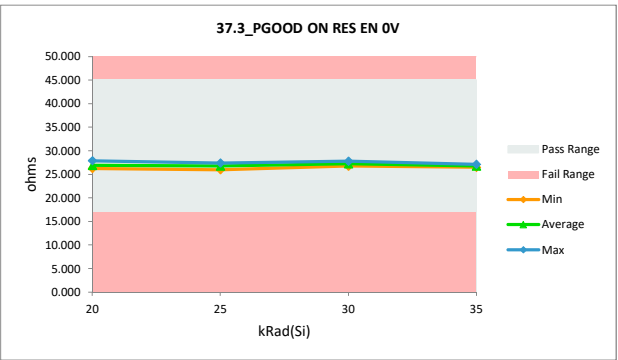
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.3_PGOOD ON RES EN 0V |          |         |          |        |
|-------------------------|----------|---------|----------|--------|
| Test Site               |          |         |          |        |
| Tester                  |          |         |          |        |
| Test Number             |          |         |          |        |
| Unit                    | ohms     | ohms    |          |        |
| Max Limit               | 45       | 45      |          |        |
| Min Limit               | 17       | 17      |          |        |
| kRad(Si)                | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                      | 61       | 26.270  | 26.440   | 0.170  |
| 20                      | 62       | 27.420  | 27.660   | 0.240  |
| 20                      | 63       | 27.460  | 27.750   | 0.290  |
| 20                      | 64       | 26.370  | 26.440   | 0.070  |
| 20                      | 65       | 26.970  | 27.260   | 0.290  |
| 20                      | 67       | 26.610  | 26.750   | 0.140  |
| 20                      | 68       | 26.880  | 26.990   | 0.110  |
| 20                      | 69       | 26.190  | 26.510   | 0.320  |
| 20                      | 70       | 26.420  | 26.680   | 0.260  |
| 20                      | 71       | 26.370  | 26.430   | 0.060  |
| 20                      | 72       | 26.120  | 26.240   | 0.120  |
| 20                      | 73       | 26.770  | 27.310   | 0.540  |
| 20                      | 74       | 26.730  | 27.220   | 0.490  |
| 20                      | 75       | 26.340  | 26.590   | 0.250  |
| 20                      | 76       | 27.390  | 27.730   | 0.340  |
| 20                      | 77       | 27.090  | 27.360   | 0.270  |
| 20                      | 78       | 26.120  | 26.220   | 0.100  |
| 20                      | 79       | 27.200  | 27.890   | 0.690  |
| 20                      | 80       | 26.440  | 26.590   | 0.150  |
| 20                      | 81       | 26.430  | 26.480   | 0.050  |
| 20                      | 82       | 26.420  | 26.630   | 0.210  |
| 20                      | 83       | 26.350  | 26.610   | 0.260  |
| 25                      | 84       | 26.340  | 26.450   | 0.110  |
| 25                      | 85       | 26.770  | 26.820   | 0.050  |
| 25                      | 86       | 27.240  | 27.410   | 0.170  |
| 25                      | 87       | 27.020  | 27.220   | 0.200  |
| 25                      | 88       | 26.130  | 25.980   | -0.150 |
| 30                      | 89       | 26.940  | 27.780   | 0.840  |
| 30                      | 90       | 26.790  | 27.570   | 0.780  |
| 30                      | 91       | 26.420  | 26.740   | 0.320  |
| 30                      | 92       | 26.580  | 27.040   | 0.460  |
| 30                      | 93       | 26.620  | 27.110   | 0.490  |
| 35                      | 94       | 26.340  | 26.490   | 0.150  |
| 35                      | 95       | 26.590  | 27.120   | 0.530  |
| 35                      | 96       | 26.520  | 26.610   | 0.090  |
| 35                      | 97       | 26.690  | 26.850   | 0.160  |
| 35                      | 98       | 26.150  | 26.700   | 0.550  |
| Max                     |          | 27.460  | 27.890   | 0.840  |
| Average                 |          | 26.635  | 26.910   | 0.275  |
| Min                     |          | 26.120  | 25.980   | -0.150 |
| Std Dev                 |          | 0.384   | 0.499    | 0.218  |



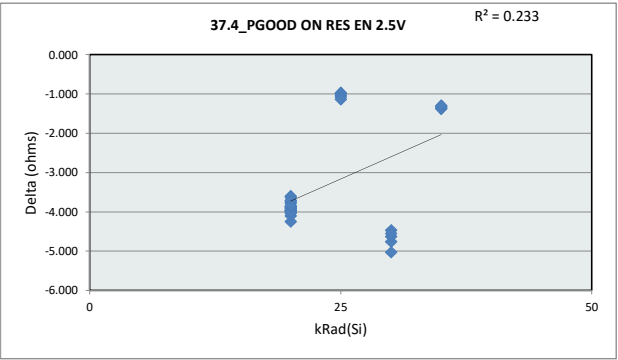
| 37.3_PGOOD ON RES EN 0V |        |        |        |        |
|-------------------------|--------|--------|--------|--------|
| Test Site               |        |        |        |        |
| Tester                  |        |        |        |        |
| Test Number             |        |        |        |        |
| Max Limit               | 45     | ohms   |        |        |
| Min Limit               | 17     | ohms   |        |        |
| kRad(Si)                | 20     | 25     | 30     | 35     |
| LL                      | 17.000 | 17.000 | 17.000 | 17.000 |
| Min                     | 26.220 | 25.980 | 26.740 | 26.490 |
| Average                 | 26.899 | 26.776 | 27.248 | 26.754 |
| Max                     | 27.890 | 27.410 | 27.780 | 27.120 |
| UL                      | 45.000 | 45.000 | 45.000 | 45.000 |



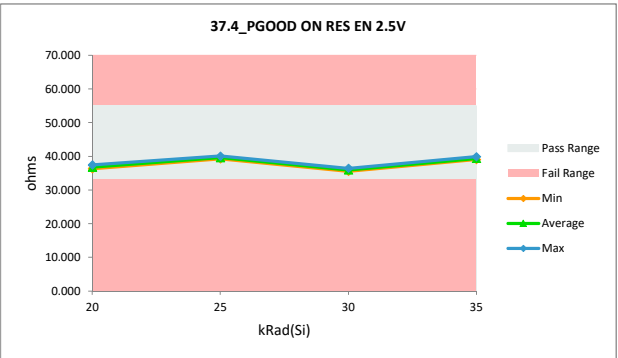
**HDR TID Report**  
**TPS7H4010-SEP**

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.4_PGOOD ON RES EN 2.5V |          |         |          |        |
|---------------------------|----------|---------|----------|--------|
| Test Site                 |          |         |          |        |
| Tester                    |          |         |          |        |
| Test Number               |          |         |          |        |
| Unit                      | ohms     | ohms    |          |        |
| Max Limit                 | 55       | 55      |          |        |
| Min Limit                 | 33       | 33      |          |        |
| kRad(Si)                  | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                        | 61       | 40.560  | 36.680   | -3.880 |
| 20                        | 62       | 40.670  | 36.710   | -3.960 |
| 20                        | 63       | 41.050  | 36.800   | -4.250 |
| 20                        | 64       | 40.240  | 36.340   | -3.900 |
| 20                        | 65       | 40.850  | 36.900   | -3.950 |
| 20                        | 67       | 40.710  | 36.730   | -3.980 |
| 20                        | 68       | 40.470  | 36.500   | -3.970 |
| 20                        | 69       | 40.620  | 36.590   | -4.030 |
| 20                        | 70       | 40.570  | 36.810   | -3.760 |
| 20                        | 71       | 40.730  | 36.950   | -3.780 |
| 20                        | 72       | 40.360  | 36.450   | -3.910 |
| 20                        | 73       | 40.600  | 36.710   | -3.890 |
| 20                        | 74       | 40.420  | 36.820   | -3.600 |
| 20                        | 75       | 40.390  | 36.670   | -3.720 |
| 20                        | 76       | 40.720  | 36.750   | -3.970 |
| 20                        | 77       | 41.000  | 36.900   | -4.100 |
| 20                        | 78       | 40.170  | 36.540   | -3.630 |
| 20                        | 79       | 41.150  | 37.440   | -3.710 |
| 20                        | 80       | 40.800  | 36.780   | -4.020 |
| 20                        | 81       | 40.720  | 36.840   | -3.880 |
| 20                        | 82       | 40.570  | 36.720   | -3.850 |
| 20                        | 83       | 40.460  | 36.610   | -3.850 |
| 25                        | 84       | 40.260  | 39.270   | -0.990 |
| 25                        | 85       | 40.810  | 39.840   | -0.970 |
| 25                        | 86       | 41.090  | 40.060   | -1.030 |
| 25                        | 87       | 40.560  | 39.480   | -1.080 |
| 25                        | 88       | 40.640  | 39.500   | -1.140 |
| 30                        | 89       | 41.200  | 36.440   | -4.760 |
| 30                        | 90       | 40.220  | 35.750   | -4.470 |
| 30                        | 91       | 40.610  | 35.580   | -5.030 |
| 30                        | 92       | 40.510  | 35.880   | -4.630 |
| 30                        | 93       | 40.630  | 36.080   | -4.550 |
| 35                        | 94       | 41.040  | 39.720   | -1.320 |
| 35                        | 95       | 41.250  | 39.870   | -1.380 |
| 35                        | 96       | 40.470  | 39.120   | -1.350 |
| 35                        | 97       | 40.530  | 39.150   | -1.380 |
| 35                        | 98       | 40.330  | 39.030   | -1.300 |
|                           | Max      | 41.250  | 40.060   | -0.970 |
|                           | Average  | 40.648  | 37.379   | -3.269 |
|                           | Min      | 40.170  | 35.580   | -5.030 |
|                           | Std Dev  | 0.282   | 1.365    | 1.318  |



| 37.4_PGOOD ON RES EN 2.5V |        |        |        |        |
|---------------------------|--------|--------|--------|--------|
| Test Site                 |        |        |        |        |
| Tester                    |        |        |        |        |
| Test Number               |        |        |        |        |
| Max Limit                 | 55     | ohms   |        |        |
| Min Limit                 | 33     | ohms   |        |        |
| kRad(Si)                  | 20     | 25     | 30     | 35     |
| LL                        | 33.000 | 33.000 | 33.000 | 33.000 |
| Min                       | 36.340 | 39.270 | 35.580 | 39.030 |
| Average                   | 36.738 | 39.630 | 35.946 | 39.378 |
| Max                       | 37.440 | 40.060 | 36.440 | 39.870 |
| UL                        | 55.000 | 55.000 | 55.000 | 55.000 |

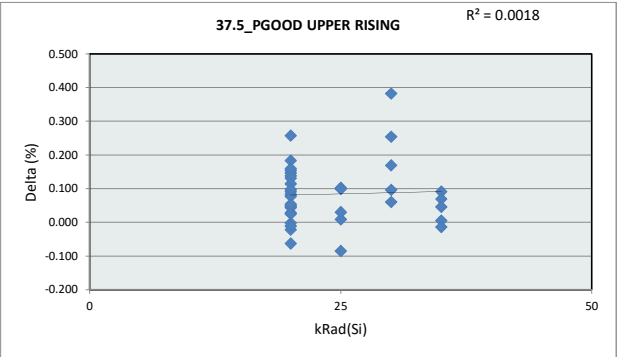


# HDR TID Report

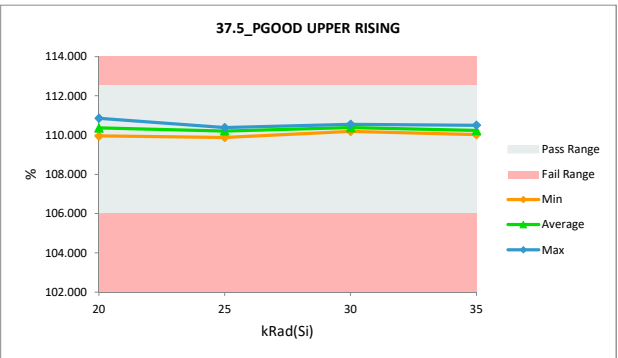
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.5_PGOOD UPPER RISING |          |         |          |        |
|-------------------------|----------|---------|----------|--------|
| Test Site               |          |         |          |        |
| Tester                  |          |         |          |        |
| Test Number             |          |         |          |        |
| Unit                    | %        | %       |          |        |
| Max Limit               | 112.5    | 112.5   |          |        |
| Min Limit               | 106      | 106     |          |        |
| kRad(Si)                | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                      | 61       | 110.151 | 110.179  | 0.028  |
| 20                      | 62       | 110.375 | 110.513  | 0.138  |
| 20                      | 63       | 110.410 | 110.557  | 0.147  |
| 20                      | 64       | 110.701 | 110.855  | 0.154  |
| 20                      | 65       | 110.370 | 110.368  | -0.002 |
| 20                      | 67       | 110.233 | 110.324  | 0.091  |
| 20                      | 68       | 110.387 | 110.431  | 0.044  |
| 20                      | 69       | 110.135 | 110.113  | -0.022 |
| 20                      | 70       | 110.509 | 110.592  | 0.083  |
| 20                      | 71       | 110.223 | 110.270  | 0.047  |
| 20                      | 72       | 110.336 | 110.387  | 0.051  |
| 20                      | 73       | 110.330 | 110.407  | 0.077  |
| 20                      | 74       | 110.407 | 110.461  | 0.054  |
| 20                      | 75       | 110.435 | 110.618  | 0.183  |
| 20                      | 76       | 110.170 | 110.427  | 0.257  |
| 20                      | 77       | 110.048 | 110.179  | 0.131  |
| 20                      | 78       | 110.016 | 109.953  | -0.063 |
| 20                      | 79       | 110.368 | 110.482  | 0.114  |
| 20                      | 80       | 110.049 | 110.074  | 0.025  |
| 20                      | 81       | 110.342 | 110.439  | 0.097  |
| 20                      | 82       | 110.091 | 110.250  | 0.159  |
| 20                      | 83       | 110.147 | 110.136  | -0.011 |
| 25                      | 84       | 110.228 | 110.330  | 0.102  |
| 25                      | 85       | 110.234 | 110.243  | 0.009  |
| 25                      | 86       | 110.179 | 110.209  | 0.030  |
| 25                      | 87       | 109.966 | 109.881  | -0.085 |
| 25                      | 88       | 110.284 | 110.383  | 0.099  |
| 30                      | 89       | 110.100 | 110.269  | 0.169  |
| 30                      | 90       | 110.170 | 110.552  | 0.382  |
| 30                      | 91       | 110.350 | 110.446  | 0.096  |
| 30                      | 92       | 110.216 | 110.470  | 0.254  |
| 30                      | 93       | 110.124 | 110.184  | 0.060  |
| 35                      | 94       | 110.222 | 110.313  | 0.091  |
| 35                      | 95       | 110.015 | 110.020  | 0.005  |
| 35                      | 96       | 110.266 | 110.252  | -0.014 |
| 35                      | 97       | 110.433 | 110.502  | 0.069  |
| 35                      | 98       | 110.012 | 110.058  | 0.046  |
|                         | Max      | 110.701 | 110.855  | 0.382  |
|                         | Average  | 110.244 | 110.328  | 0.084  |
|                         | Min      | 109.966 | 109.881  | -0.085 |
|                         | Std Dev  | 0.161   | 0.203    | 0.092  |



| 37.5_PGOOD UPPER RISING |         |         |         |         |
|-------------------------|---------|---------|---------|---------|
| Test Site               |         |         |         |         |
| Tester                  |         |         |         |         |
| Test Number             |         |         |         |         |
| Max Limit               | 112.5   | %       |         |         |
| Min Limit               | 106     | %       |         |         |
| kRad(Si)                | 20      | 25      | 30      | 35      |
| LL                      | 106.000 | 106.000 | 106.000 | 106.000 |
| Min                     | 109.953 | 109.881 | 110.184 | 110.020 |
| Average                 | 110.364 | 110.209 | 110.384 | 110.229 |
| Max                     | 110.855 | 110.383 | 110.552 | 110.502 |
| UL                      | 112.500 | 112.500 | 112.500 | 112.500 |



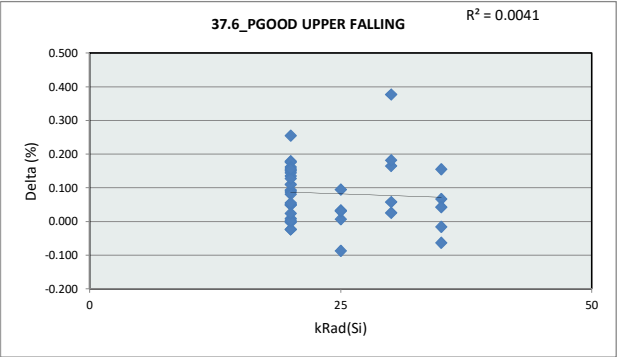


**HDR TID Report**  
**TPS7H4010-SEP**

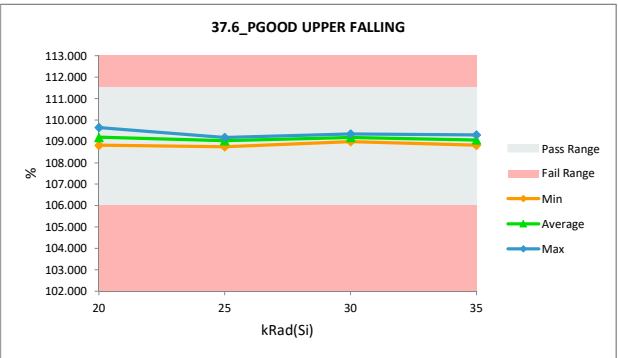
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.6_PGOOD UPPER FALLING |       |       |
|--------------------------|-------|-------|
| Test Site                |       |       |
| Tester                   |       |       |
| Test Number              |       |       |
| Unit                     | %     | %     |
| Max Limit                | 111.5 | 111.5 |
| Min Limit                | 106   | 106   |

| kRad(Si) | Serial # | Pre_HDR | Post_HDR | Delta  |
|----------|----------|---------|----------|--------|
| 20       | 61       | 108.955 | 109.048  | 0.093  |
| 20       | 62       | 109.178 | 109.313  | 0.135  |
| 20       | 63       | 109.214 | 109.359  | 0.145  |
| 20       | 64       | 109.502 | 109.653  | 0.151  |
| 20       | 65       | 109.107 | 109.105  | -0.002 |
| 20       | 67       | 109.104 | 109.192  | 0.088  |
| 20       | 68       | 109.191 | 109.301  | 0.110  |
| 20       | 69       | 109.006 | 108.983  | -0.023 |
| 20       | 70       | 109.312 | 109.393  | 0.081  |
| 20       | 71       | 109.094 | 109.071  | -0.023 |
| 20       | 72       | 109.205 | 109.254  | 0.049  |
| 20       | 73       | 109.198 | 109.207  | 0.009  |
| 20       | 74       | 109.208 | 109.258  | 0.050  |
| 20       | 75       | 109.241 | 109.420  | 0.179  |
| 20       | 76       | 108.974 | 109.229  | 0.255  |
| 20       | 77       | 108.852 | 108.980  | 0.128  |
| 20       | 78       | 108.820 | 108.822  | 0.002  |
| 20       | 79       | 109.105 | 109.282  | 0.177  |
| 20       | 80       | 108.919 | 108.943  | 0.024  |
| 20       | 81       | 109.148 | 109.310  | 0.162  |
| 20       | 82       | 108.894 | 109.050  | 0.156  |
| 20       | 83       | 108.951 | 109.006  | 0.055  |
| 25       | 84       | 109.099 | 109.132  | 0.033  |
| 25       | 85       | 109.105 | 109.112  | 0.007  |
| 25       | 86       | 108.914 | 109.009  | 0.095  |
| 25       | 87       | 108.837 | 108.750  | -0.087 |
| 25       | 88       | 109.154 | 109.185  | 0.031  |
| 30       | 89       | 108.905 | 109.070  | 0.165  |
| 30       | 90       | 108.972 | 109.349  | 0.377  |
| 30       | 91       | 109.220 | 109.246  | 0.026  |
| 30       | 92       | 109.085 | 109.267  | 0.182  |
| 30       | 93       | 108.929 | 108.987  | 0.058  |
| 35       | 94       | 109.023 | 109.178  | 0.155  |
| 35       | 95       | 108.885 | 108.822  | -0.063 |
| 35       | 96       | 109.138 | 109.122  | -0.016 |
| 35       | 97       | 109.235 | 109.302  | 0.067  |
| 35       | 98       | 108.882 | 108.925  | 0.043  |
| Max      |          | 109.502 | 109.653  | 0.377  |
| Average  |          | 109.069 | 109.152  | 0.083  |
| Min      |          | 108.820 | 108.750  | -0.087 |
| Std Dev  |          | 0.155   | 0.188    | 0.092  |



| 37.6_PGOOD UPPER FALLING |         |         |         |         |
|--------------------------|---------|---------|---------|---------|
| Test Site                |         |         |         |         |
| Tester                   |         |         |         |         |
| Test Number              |         |         |         |         |
| Max Limit                | 111.5   | %       |         |         |
| Min Limit                | 106     | %       |         |         |
| kRad(Si)                 | 20      | 25      | 30      | 35      |
| LL                       | 106.000 | 106.000 | 106.000 | 106.000 |
| Min                      | 108.822 | 108.750 | 108.987 | 108.822 |
| Average                  | 109.190 | 109.038 | 109.184 | 109.070 |
| Max                      | 109.653 | 109.185 | 109.349 | 109.302 |
| UL                       | 111.500 | 111.500 | 111.500 | 111.500 |

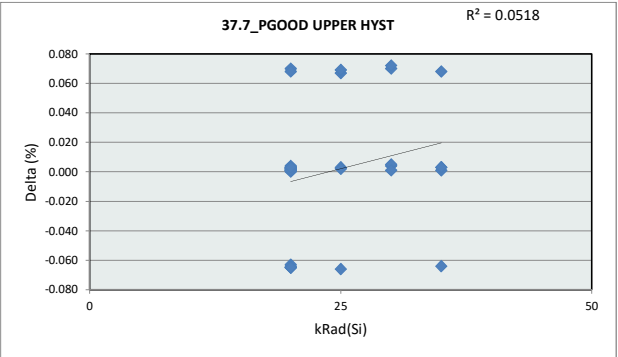


# HDR TID Report

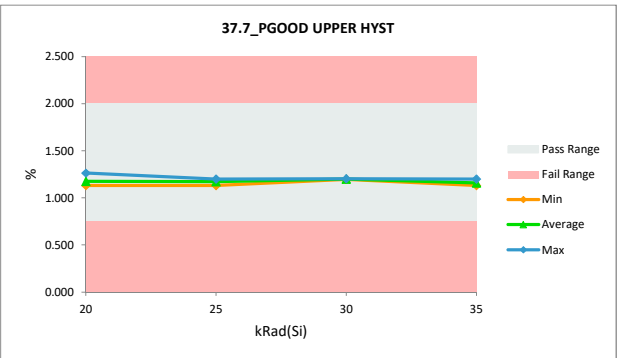
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.7_PGOOD UPPER HYST |          |         |          |        |
|-----------------------|----------|---------|----------|--------|
| Test Site             |          |         |          |        |
| Tester                |          |         |          |        |
| Test Number           |          |         |          |        |
| Unit                  | %        |         |          |        |
| Max Limit             | 2        |         |          |        |
| Min Limit             | 0.75     |         |          |        |
| kRad(Si)              | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                    | 61       | 1.196   | 1.131    | -0.065 |
| 20                    | 62       | 1.197   | 1.200    | 0.003  |
| 20                    | 63       | 1.197   | 1.198    | 0.001  |
| 20                    | 64       | 1.199   | 1.201    | 0.002  |
| 20                    | 65       | 1.263   | 1.263    | 0.000  |
| 20                    | 67       | 1.129   | 1.131    | 0.002  |
| 20                    | 68       | 1.196   | 1.131    | -0.065 |
| 20                    | 69       | 1.129   | 1.130    | 0.001  |
| 20                    | 70       | 1.198   | 1.199    | 0.001  |
| 20                    | 71       | 1.129   | 1.199    | 0.070  |
| 20                    | 72       | 1.131   | 1.133    | 0.002  |
| 20                    | 73       | 1.131   | 1.199    | 0.068  |
| 20                    | 74       | 1.199   | 1.203    | 0.004  |
| 20                    | 75       | 1.195   | 1.198    | 0.003  |
| 20                    | 76       | 1.196   | 1.198    | 0.002  |
| 20                    | 77       | 1.196   | 1.199    | 0.003  |
| 20                    | 78       | 1.196   | 1.131    | -0.065 |
| 20                    | 79       | 1.263   | 1.200    | -0.063 |
| 20                    | 80       | 1.130   | 1.131    | 0.001  |
| 20                    | 81       | 1.194   | 1.130    | -0.064 |
| 20                    | 82       | 1.197   | 1.200    | 0.003  |
| 20                    | 83       | 1.196   | 1.131    | -0.065 |
| 25                    | 84       | 1.130   | 1.197    | 0.067  |
| 25                    | 85       | 1.129   | 1.132    | 0.003  |
| 25                    | 86       | 1.265   | 1.199    | -0.066 |
| 25                    | 87       | 1.129   | 1.131    | 0.002  |
| 25                    | 88       | 1.129   | 1.198    | 0.069  |
| 30                    | 89       | 1.195   | 1.199    | 0.004  |
| 30                    | 90       | 1.198   | 1.203    | 0.005  |
| 30                    | 91       | 1.130   | 1.200    | 0.070  |
| 30                    | 92       | 1.131   | 1.203    | 0.072  |
| 30                    | 93       | 1.196   | 1.197    | 0.001  |
| 35                    | 94       | 1.199   | 1.135    | -0.064 |
| 35                    | 95       | 1.129   | 1.197    | 0.068  |
| 35                    | 96       | 1.129   | 1.130    | 0.001  |
| 35                    | 97       | 1.197   | 1.200    | 0.003  |
| 35                    | 98       | 1.130   | 1.133    | 0.003  |
| Max                   |          | 1.265   | 1.263    | 0.072  |
| Average               |          | 1.175   | 1.175    | 0.000  |
| Min                   |          | 1.129   | 1.130    | -0.066 |
| Std Dev               |          | 0.042   | 0.036    | 0.043  |



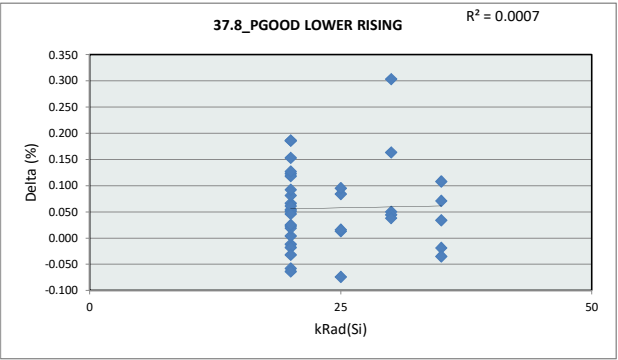
| 37.7_PGOOD UPPER HYST |       |       |       |       |
|-----------------------|-------|-------|-------|-------|
| Test Site             |       |       |       |       |
| Tester                |       |       |       |       |
| Test Number           |       |       |       |       |
| Max Limit             | 2     |       |       |       |
| Min Limit             | 0.75  |       |       |       |
| kRad(Si)              | 20    | 25    | 30    | 35    |
| LL                    | 0.750 | 0.750 | 0.750 | 0.750 |
| Min                   | 1.130 | 1.131 | 1.197 | 1.130 |
| Average               | 1.174 | 1.171 | 1.200 | 1.159 |
| Max                   | 1.263 | 1.199 | 1.203 | 1.200 |
| UL                    | 2.000 | 2.000 | 2.000 | 2.000 |



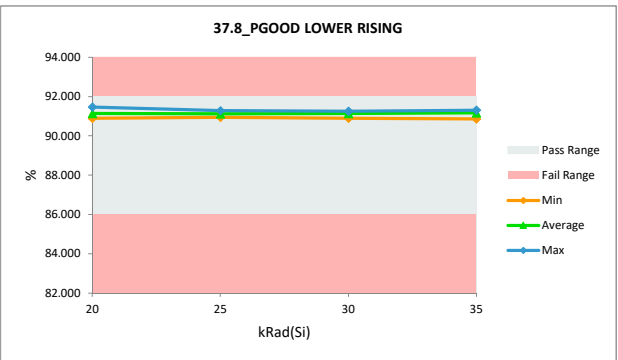
**HDR TID Report**  
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| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.8_PGOOD LOWER RISING |          |         |          |        |
|-------------------------|----------|---------|----------|--------|
| Test Site               |          |         |          |        |
| Tester                  |          |         |          |        |
| Test Number             |          |         |          |        |
| Unit                    | %        |         |          |        |
| Max Limit               | 92       |         |          |        |
| Min Limit               | 86       |         |          |        |
| kRad(Si)                | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                      | 61       | 91.084  | 91.150   | 0.066  |
| 20                      | 62       | 90.893  | 90.916   | 0.023  |
| 20                      | 63       | 91.133  | 91.121   | -0.012 |
| 20                      | 64       | 91.318  | 91.300   | -0.018 |
| 20                      | 65       | 91.365  | 91.419   | 0.054  |
| 20                      | 67       | 90.842  | 90.893   | 0.051  |
| 20                      | 68       | 91.391  | 91.472   | 0.081  |
| 20                      | 69       | 90.871  | 90.963   | 0.092  |
| 20                      | 70       | 91.082  | 91.205   | 0.123  |
| 20                      | 71       | 91.088  | 91.092   | 0.004  |
| 20                      | 72       | 91.115  | 91.134   | 0.019  |
| 20                      | 73       | 91.032  | 91.150   | 0.118  |
| 20                      | 74       | 90.895  | 91.081   | 0.186  |
| 20                      | 75       | 91.188  | 91.249   | 0.061  |
| 20                      | 76       | 90.966  | 90.991   | 0.025  |
| 20                      | 77       | 91.108  | 91.261   | 0.153  |
| 20                      | 78       | 90.882  | 90.928   | 0.046  |
| 20                      | 79       | 91.286  | 91.413   | 0.127  |
| 20                      | 80       | 90.976  | 90.918   | -0.058 |
| 20                      | 81       | 91.299  | 91.235   | -0.064 |
| 20                      | 82       | 90.933  | 91.119   | 0.186  |
| 20                      | 83       | 91.014  | 90.982   | -0.032 |
| 25                      | 84       | 91.092  | 91.176   | 0.084  |
| 25                      | 85       | 91.042  | 91.137   | 0.095  |
| 25                      | 86       | 91.272  | 91.285   | 0.013  |
| 25                      | 87       | 91.041  | 91.057   | 0.016  |
| 25                      | 88       | 91.017  | 90.943   | -0.074 |
| 30                      | 89       | 91.108  | 91.158   | 0.050  |
| 30                      | 90       | 90.932  | 91.235   | 0.303  |
| 30                      | 91       | 91.205  | 91.249   | 0.044  |
| 30                      | 92       | 90.993  | 91.156   | 0.163  |
| 30                      | 93       | 90.862  | 90.900   | 0.038  |
| 35                      | 94       | 91.174  | 91.282   | 0.108  |
| 35                      | 95       | 90.881  | 90.862   | -0.019 |
| 35                      | 96       | 91.213  | 91.178   | -0.035 |
| 35                      | 97       | 91.273  | 91.307   | 0.034  |
| 35                      | 98       | 91.133  | 91.204   | 0.071  |
| Max                     |          | 91.391  | 91.472   | 0.303  |
| Average                 |          | 91.081  | 91.138   | 0.057  |
| Min                     |          | 90.842  | 90.862   | -0.074 |
| Std Dev                 |          | 0.153   | 0.158    | 0.079  |



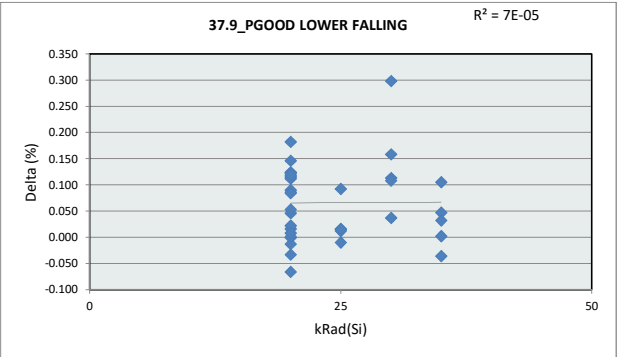
| 37.8_PGOOD LOWER RISING |        |        |        |        |
|-------------------------|--------|--------|--------|--------|
| Test Site               |        |        |        |        |
| Tester                  |        |        |        |        |
| Test Number             |        |        |        |        |
| Max Limit               | 92     |        |        |        |
| Min Limit               | 86     |        |        |        |
| kRad(Si)                | 20     | 25     | 30     | 35     |
| LL                      | 86.000 | 86.000 | 86.000 | 86.000 |
| Min                     | 90.893 | 90.943 | 90.900 | 90.862 |
| Average                 | 91.136 | 91.120 | 91.140 | 91.167 |
| Max                     | 91.472 | 91.285 | 91.249 | 91.307 |
| UL                      | 92.000 | 92.000 | 92.000 | 92.000 |



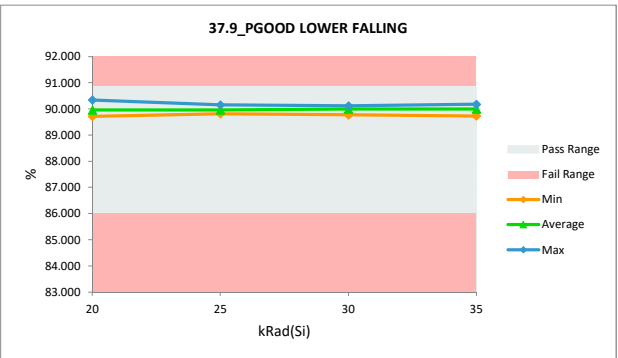
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| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.9_PGOOD LOWER FALLING |          |         |          |        |
|--------------------------|----------|---------|----------|--------|
| Test Site                |          |         |          |        |
| Tester                   |          |         |          |        |
| Test Number              |          |         |          |        |
| Unit                     | %        |         | %        |        |
| Max Limit                | 90.84    |         | 90.84    |        |
| Min Limit                | 86       |         | 86       |        |
| kRad(Si)                 | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                       | 61       | 89.954  | 89.953   | -0.001 |
| 20                       | 62       | 89.630  | 89.716   | 0.086  |
| 20                       | 63       | 89.936  | 89.923   | -0.013 |
| 20                       | 64       | 90.119  | 90.165   | 0.046  |
| 20                       | 65       | 90.169  | 90.222   | 0.053  |
| 20                       | 67       | 89.647  | 89.762   | 0.115  |
| 20                       | 68       | 90.195  | 90.341   | 0.146  |
| 20                       | 69       | 89.676  | 89.766   | 0.090  |
| 20                       | 70       | 89.884  | 90.006   | 0.122  |
| 20                       | 71       | 89.892  | 89.893   | 0.001  |
| 20                       | 72       | 89.918  | 89.934   | 0.016  |
| 20                       | 73       | 89.834  | 89.951   | 0.117  |
| 20                       | 74       | 89.697  | 89.879   | 0.182  |
| 20                       | 75       | 89.994  | 90.118   | 0.124  |
| 20                       | 76       | 89.837  | 89.859   | 0.022  |
| 20                       | 77       | 89.978  | 90.062   | 0.084  |
| 20                       | 78       | 89.686  | 89.798   | 0.112  |
| 20                       | 79       | 90.023  | 90.146   | 0.123  |
| 20                       | 80       | 89.780  | 89.788   | 0.008  |
| 20                       | 81       | 90.105  | 90.039   | -0.066 |
| 20                       | 82       | 89.802  | 89.920   | 0.118  |
| 20                       | 83       | 89.751  | 89.718   | -0.033 |
| 25                       | 84       | 89.963  | 89.979   | 0.016  |
| 25                       | 85       | 89.913  | 90.005   | 0.092  |
| 25                       | 86       | 90.140  | 90.152   | 0.012  |
| 25                       | 87       | 89.845  | 89.860   | 0.015  |
| 25                       | 88       | 89.821  | 89.811   | -0.010 |
| 30                       | 89       | 89.913  | 90.026   | 0.113  |
| 30                       | 90       | 89.734  | 90.032   | 0.298  |
| 30                       | 91       | 90.008  | 90.116   | 0.108  |
| 30                       | 92       | 89.862  | 90.020   | 0.158  |
| 30                       | 93       | 89.733  | 89.770   | 0.037  |
| 35                       | 94       | 89.975  | 90.080   | 0.105  |
| 35                       | 95       | 89.685  | 89.732   | 0.047  |
| 35                       | 96       | 90.018  | 89.982   | -0.036 |
| 35                       | 97       | 90.142  | 90.174   | 0.032  |
| 35                       | 98       | 90.003  | 90.005   | 0.002  |
| Max                      |          | 90.195  | 90.341   | 0.298  |
| Average                  |          | 89.899  | 89.965   | 0.066  |
| Min                      |          | 89.630  | 89.716   | -0.066 |
| Std Dev                  |          | 0.157   | 0.155    | 0.073  |



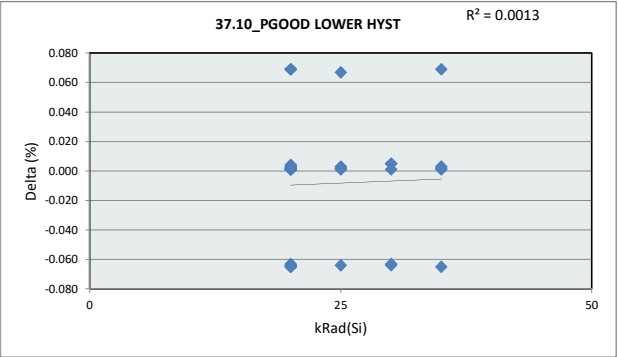
| 37.9_PGOOD LOWER FALLING |        |        |        |        |
|--------------------------|--------|--------|--------|--------|
| Test Site                |        |        |        |        |
| Tester                   |        |        |        |        |
| Test Number              |        |        |        |        |
| Max Limit                | 90.84  | %      |        |        |
| Min Limit                | 86     | %      |        |        |
| kRad(Si)                 | 20     | 25     | 30     | 35     |
| LL                       | 86.000 | 86.000 | 86.000 | 86.000 |
| Min                      | 89.716 | 89.811 | 89.770 | 89.732 |
| Average                  | 89.953 | 89.961 | 89.993 | 89.995 |
| Max                      | 90.341 | 90.152 | 90.116 | 90.174 |
| UL                       | 90.840 | 90.840 | 90.840 | 90.840 |



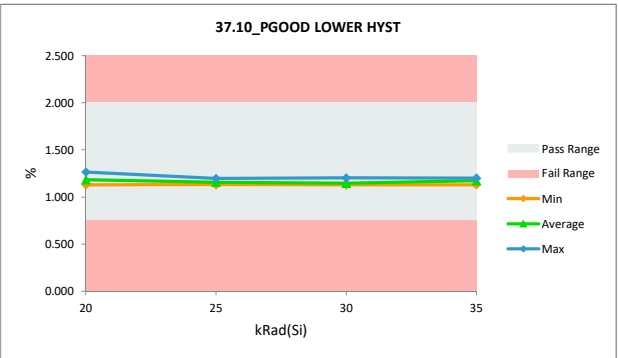
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| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.10_PGOOD LOWER HYST |          |         |          |        |
|------------------------|----------|---------|----------|--------|
| Test Site              |          |         |          |        |
| Tester                 |          |         |          |        |
| Test Number            |          |         |          |        |
| Unit                   | %        |         |          |        |
| Max Limit              | 2        |         |          |        |
| Min Limit              | 0.75     |         |          |        |
| kRad(Si)               | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                     | 61       | 1.129   | 1.198    | 0.069  |
| 20                     | 62       | 1.263   | 1.200    | -0.063 |
| 20                     | 63       | 1.197   | 1.198    | 0.001  |
| 20                     | 64       | 1.199   | 1.135    | -0.064 |
| 20                     | 65       | 1.196   | 1.197    | 0.001  |
| 20                     | 67       | 1.195   | 1.131    | -0.064 |
| 20                     | 68       | 1.196   | 1.131    | -0.065 |
| 20                     | 69       | 1.196   | 1.197    | 0.001  |
| 20                     | 70       | 1.198   | 1.199    | 0.001  |
| 20                     | 71       | 1.196   | 1.199    | 0.003  |
| 20                     | 72       | 1.197   | 1.199    | 0.002  |
| 20                     | 73       | 1.198   | 1.199    | 0.001  |
| 20                     | 74       | 1.199   | 1.203    | 0.004  |
| 20                     | 75       | 1.195   | 1.131    | -0.064 |
| 20                     | 76       | 1.130   | 1.132    | 0.002  |
| 20                     | 77       | 1.130   | 1.199    | 0.069  |
| 20                     | 78       | 1.196   | 1.131    | -0.065 |
| 20                     | 79       | 1.263   | 1.267    | 0.004  |
| 20                     | 80       | 1.196   | 1.131    | -0.065 |
| 20                     | 81       | 1.194   | 1.196    | 0.002  |
| 20                     | 82       | 1.131   | 1.200    | 0.069  |
| 20                     | 83       | 1.262   | 1.264    | 0.002  |
| 25                     | 84       | 1.130   | 1.197    | 0.067  |
| 25                     | 85       | 1.129   | 1.132    | 0.003  |
| 25                     | 86       | 1.132   | 1.133    | 0.001  |
| 25                     | 87       | 1.195   | 1.197    | 0.002  |
| 25                     | 88       | 1.196   | 1.132    | -0.064 |
| 30                     | 89       | 1.195   | 1.132    | -0.063 |
| 30                     | 90       | 1.198   | 1.203    | 0.005  |
| 30                     | 91       | 1.197   | 1.133    | -0.064 |
| 30                     | 92       | 1.131   | 1.136    | 0.005  |
| 30                     | 93       | 1.129   | 1.130    | 0.001  |
| 35                     | 94       | 1.199   | 1.202    | 0.003  |
| 35                     | 95       | 1.196   | 1.131    | -0.065 |
| 35                     | 96       | 1.195   | 1.196    | 0.001  |
| 35                     | 97       | 1.131   | 1.133    | 0.002  |
| 35                     | 98       | 1.130   | 1.199    | 0.069  |
| Max                    |          | 1.263   | 1.267    | 0.069  |
| Average                |          | 1.182   | 1.174    | -0.009 |
| Min                    |          | 1.129   | 1.130    | -0.065 |
| Std Dev                |          | 0.039   | 0.040    | 0.043  |



| 37.10_PGOOD LOWER HYST |       |       |       |       |
|------------------------|-------|-------|-------|-------|
| Test Site              |       |       |       |       |
| Tester                 |       |       |       |       |
| Test Number            |       |       |       |       |
| Max Limit              | 2     |       |       |       |
| Min Limit              | 0.75  |       |       |       |
| kRad(Si)               | 20    | 25    | 30    | 35    |
| LL                     | 0.750 | 0.750 | 0.750 | 0.750 |
| Min                    | 1.131 | 1.132 | 1.130 | 1.131 |
| Average                | 1.184 | 1.158 | 1.147 | 1.172 |
| Max                    | 1.267 | 1.197 | 1.203 | 1.202 |
| UL                     | 2.000 | 2.000 | 2.000 | 2.000 |

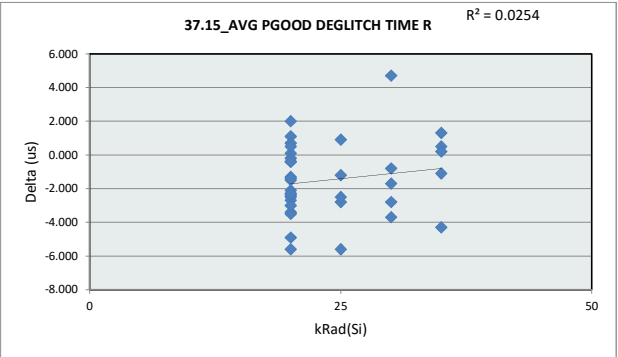


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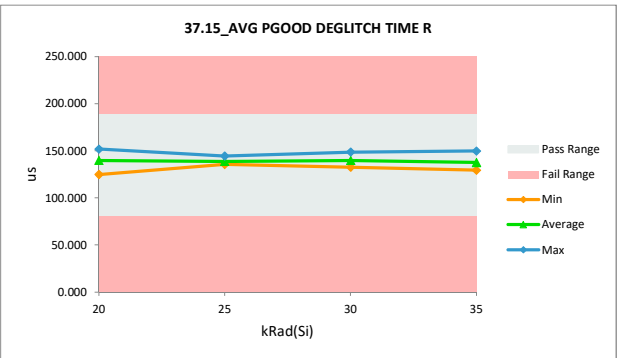
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.15_AVG PGOOD DEGLITCH TIME R |     |     |
|---------------------------------|-----|-----|
| Test Site                       |     |     |
| Tester                          |     |     |
| Test Number                     |     |     |
| Unit                            | us  | us  |
| Max Limit                       | 188 | 188 |
| Min Limit                       | 80  | 80  |

| kRad(Si) | Serial # | Pre_HDR | Post_HDR | Delta  |
|----------|----------|---------|----------|--------|
| 20       | 61       | 137.200 | 134.500  | -2.700 |
| 20       | 62       | 148.400 | 148.500  | 0.100  |
| 20       | 63       | 141.400 | 141.000  | -0.400 |
| 20       | 64       | 145.400 | 146.500  | 1.100  |
| 20       | 65       | 142.400 | 140.300  | -2.100 |
| 20       | 67       | 141.100 | 140.900  | -0.200 |
| 20       | 68       | 137.000 | 134.700  | -2.300 |
| 20       | 69       | 138.100 | 134.700  | -3.400 |
| 20       | 70       | 138.700 | 140.700  | 2.000  |
| 20       | 71       | 127.300 | 124.800  | -2.500 |
| 20       | 72       | 154.200 | 151.800  | -2.400 |
| 20       | 73       | 139.900 | 139.500  | -0.400 |
| 20       | 74       | 142.900 | 141.600  | -1.300 |
| 20       | 75       | 144.300 | 142.000  | -2.300 |
| 20       | 76       | 144.300 | 142.800  | -1.500 |
| 20       | 77       | 143.400 | 139.900  | -3.500 |
| 20       | 78       | 142.800 | 139.800  | -3.000 |
| 20       | 79       | 143.000 | 137.400  | -5.600 |
| 20       | 80       | 136.100 | 134.700  | -1.400 |
| 20       | 81       | 147.200 | 142.300  | -4.900 |
| 20       | 82       | 141.600 | 142.300  | 0.700  |
| 20       | 83       | 130.600 | 131.100  | 0.500  |
| 25       | 84       | 138.500 | 135.700  | -2.800 |
| 25       | 85       | 145.700 | 144.500  | -1.200 |
| 25       | 86       | 143.600 | 141.100  | -2.500 |
| 25       | 87       | 134.500 | 135.400  | 0.900  |
| 25       | 88       | 142.700 | 137.100  | -5.600 |
| 30       | 89       | 138.900 | 138.100  | -0.800 |
| 30       | 90       | 136.900 | 134.100  | -2.800 |
| 30       | 91       | 143.900 | 148.600  | 4.700  |
| 30       | 92       | 134.200 | 132.500  | -1.700 |
| 30       | 93       | 148.600 | 144.900  | -3.700 |
| 35       | 94       | 134.900 | 136.200  | 1.300  |
| 35       | 95       | 133.900 | 134.400  | 0.500  |
| 35       | 96       | 149.500 | 149.700  | 0.200  |
| 35       | 97       | 130.400 | 129.300  | -1.100 |
| 35       | 98       | 142.400 | 138.100  | -4.300 |
| Max      |          | 154.200 | 151.800  | 4.700  |
| Average  |          | 140.700 | 139.230  | -1.470 |
| Min      |          | 127.300 | 124.800  | -5.600 |
| Std Dev  |          | 5.719   | 5.800    | 2.181  |



| 37.15_AVG PGOOD DEGLITCH TIME R |         |         |         |         |
|---------------------------------|---------|---------|---------|---------|
| Test Site                       |         |         |         |         |
| Tester                          |         |         |         |         |
| Test Number                     |         |         |         |         |
| Max Limit                       | 188     |         | us      |         |
| Min Limit                       | 80      |         | us      |         |
| kRad(Si)                        | 20      | 25      | 30      | 35      |
| LL                              | 80.000  | 80.000  | 80.000  | 80.000  |
| Min                             | 124.800 | 135.400 | 132.500 | 129.300 |
| Average                         | 139.627 | 138.760 | 139.640 | 137.540 |
| Max                             | 151.800 | 144.500 | 148.600 | 149.700 |
| UL                              | 188.000 | 188.000 | 188.000 | 188.000 |



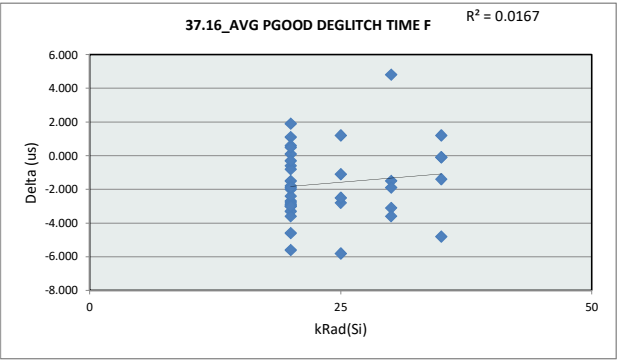
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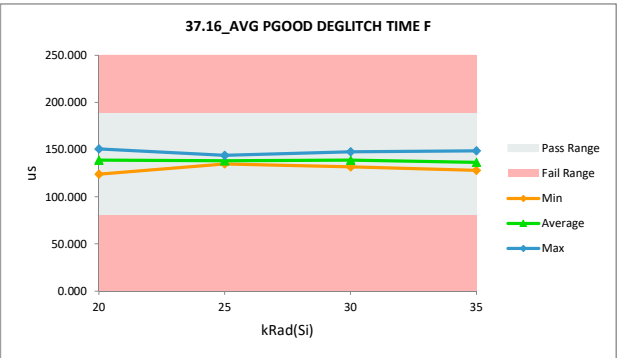
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.16_AVG PGOOD DEGLITCH TIME F |     |     |
|---------------------------------|-----|-----|
| Test Site                       |     |     |
| Tester                          |     |     |
| Test Number                     |     |     |
| Unit                            | us  | us  |
| Max Limit                       | 188 | 188 |
| Min Limit                       | 80  | 80  |

| kRad(Si) | Serial # | Pre_HDR | Post_HDR | Delta  |
|----------|----------|---------|----------|--------|
| 20       | 61       | 136.500 | 133.800  | -2.700 |
| 20       | 62       | 147.500 | 147.600  | 0.100  |
| 20       | 63       | 140.600 | 140.000  | -0.600 |
| 20       | 64       | 144.600 | 145.700  | 1.100  |
| 20       | 65       | 141.500 | 139.500  | -2.000 |
| 20       | 67       | 140.700 | 139.900  | -0.800 |
| 20       | 68       | 136.100 | 133.300  | -2.800 |
| 20       | 69       | 137.300 | 134.000  | -3.300 |
| 20       | 70       | 137.900 | 139.800  | 1.900  |
| 20       | 71       | 126.900 | 124.000  | -2.900 |
| 20       | 72       | 153.800 | 150.800  | -3.000 |
| 20       | 73       | 139.200 | 138.900  | -0.300 |
| 20       | 74       | 142.500 | 141.000  | -1.500 |
| 20       | 75       | 143.600 | 141.200  | -2.400 |
| 20       | 76       | 143.500 | 141.700  | -1.800 |
| 20       | 77       | 142.700 | 139.100  | -3.600 |
| 20       | 78       | 142.000 | 139.000  | -3.000 |
| 20       | 79       | 142.200 | 136.600  | -5.600 |
| 20       | 80       | 135.800 | 133.900  | -1.900 |
| 20       | 81       | 146.000 | 141.400  | -4.600 |
| 20       | 82       | 140.900 | 141.500  | 0.600  |
| 20       | 83       | 129.800 | 130.300  | 0.500  |
| 25       | 84       | 137.700 | 134.900  | -2.800 |
| 25       | 85       | 144.900 | 143.800  | -1.100 |
| 25       | 86       | 142.900 | 140.400  | -2.500 |
| 25       | 87       | 134.000 | 135.200  | 1.200  |
| 25       | 88       | 142.000 | 136.200  | -5.800 |
| 30       | 89       | 138.000 | 136.500  | -1.500 |
| 30       | 90       | 136.400 | 133.300  | -3.100 |
| 30       | 91       | 143.000 | 147.800  | 4.800  |
| 30       | 92       | 133.600 | 131.700  | -1.900 |
| 30       | 93       | 148.200 | 144.600  | -3.600 |
| 35       | 94       | 134.300 | 135.500  | 1.200  |
| 35       | 95       | 133.100 | 133.000  | -0.100 |
| 35       | 96       | 148.900 | 148.800  | -0.100 |
| 35       | 97       | 129.500 | 128.100  | -1.400 |
| 35       | 98       | 141.900 | 137.100  | -4.800 |
| Max      |          | 153.800 | 150.800  | 4.800  |
| Average  |          | 140.000 | 138.376  | -1.624 |
| Min      |          | 126.900 | 124.000  | -5.800 |
| Std Dev  |          | 5.709   | 5.829    | 2.198  |



| 37.16_AVG PGOOD DEGLITCH TIME F |         |         |         |         |
|---------------------------------|---------|---------|---------|---------|
| Test Site                       |         |         |         |         |
| Tester                          |         |         |         |         |
| Test Number                     |         |         |         |         |
| Max Limit                       | 188     | us      |         |         |
| Min Limit                       | 80      | us      |         |         |
| kRad(Si)                        | 20      | 25      | 30      | 35      |
| LL                              | 80.000  | 80.000  | 80.000  | 80.000  |
| Min                             | 124.000 | 134.900 | 131.700 | 128.100 |
| Average                         | 138.773 | 138.100 | 138.780 | 136.500 |
| Max                             | 150.800 | 143.800 | 147.800 | 148.800 |
| UL                              | 188.000 | 188.000 | 188.000 | 188.000 |

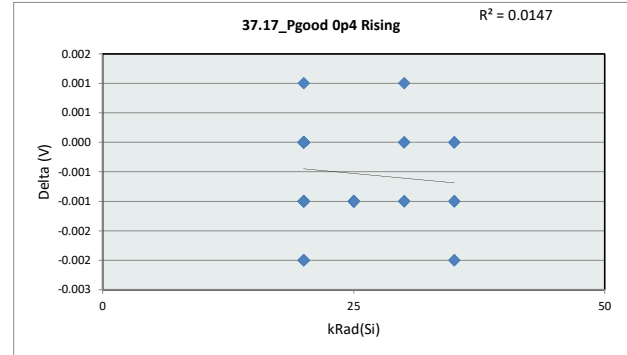


# HDR TID Report

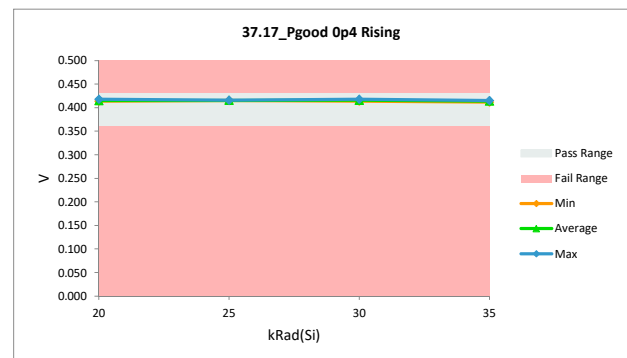
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

|          | Test Site<br>Tester<br>Test Number<br>Unit<br>Max Limit<br>Min Limit | 37.17_Pgood Op4 Rising |          |        |
|----------|----------------------------------------------------------------------|------------------------|----------|--------|
|          |                                                                      |                        |          |        |
|          |                                                                      |                        |          |        |
|          |                                                                      | V                      | V        |        |
|          |                                                                      | 0.43                   | 0.43     |        |
|          |                                                                      | 0.36                   | 0.36     |        |
| kRad(Si) | Serial #                                                             | Pre_HDR                | Post_HDR | Delta  |
| 20       | 61                                                                   | 0.416                  | 0.414    | -0.002 |
| 20       | 62                                                                   | 0.416                  | 0.416    | 0.000  |
| 20       | 63                                                                   | 0.416                  | 0.415    | -0.001 |
| 20       | 64                                                                   | 0.414                  | 0.414    | 0.000  |
| 20       | 65                                                                   | 0.414                  | 0.415    | 0.001  |
| 20       | 67                                                                   | 0.416                  | 0.416    | 0.000  |
| 20       | 68                                                                   | 0.415                  | 0.414    | -0.001 |
| 20       | 69                                                                   | 0.414                  | 0.414    | 0.000  |
| 20       | 70                                                                   | 0.416                  | 0.416    | 0.000  |
| 20       | 71                                                                   | 0.415                  | 0.414    | -0.001 |
| 20       | 72                                                                   | 0.416                  | 0.416    | 0.000  |
| 20       | 73                                                                   | 0.416                  | 0.416    | 0.000  |
| 20       | 74                                                                   | 0.416                  | 0.414    | -0.002 |
| 20       | 75                                                                   | 0.415                  | 0.415    | 0.000  |
| 20       | 76                                                                   | 0.416                  | 0.416    | 0.000  |
| 20       | 77                                                                   | 0.417                  | 0.416    | -0.001 |
| 20       | 78                                                                   | 0.414                  | 0.414    | 0.000  |
| 20       | 79                                                                   | 0.416                  | 0.415    | -0.001 |
| 20       | 80                                                                   | 0.414                  | 0.414    | 0.000  |
| 20       | 81                                                                   | 0.418                  | 0.418    | 0.000  |
| 20       | 82                                                                   | 0.415                  | 0.414    | -0.001 |
| 20       | 83                                                                   | 0.418                  | 0.418    | 0.000  |
| 25       | 84                                                                   | 0.416                  | 0.415    | -0.001 |
| 25       | 85                                                                   | 0.417                  | 0.416    | -0.001 |
| 25       | 86                                                                   | 0.417                  | 0.416    | -0.001 |
| 25       | 87                                                                   | 0.416                  | 0.415    | -0.001 |
| 25       | 88                                                                   | 0.416                  | 0.415    | -0.001 |
| 30       | 89                                                                   | 0.418                  | 0.418    | 0.000  |
| 30       | 90                                                                   | 0.417                  | 0.416    | -0.001 |
| 30       | 91                                                                   | 0.414                  | 0.414    | 0.000  |
| 30       | 92                                                                   | 0.416                  | 0.415    | -0.001 |
| 30       | 93                                                                   | 0.414                  | 0.415    | 0.001  |
| 35       | 94                                                                   | 0.415                  | 0.415    | 0.000  |
| 35       | 95                                                                   | 0.416                  | 0.415    | -0.001 |
| 35       | 96                                                                   | 0.412                  | 0.412    | 0.000  |
| 35       | 97                                                                   | 0.416                  | 0.414    | -0.002 |
| 35       | 98                                                                   | 0.414                  | 0.413    | -0.001 |
|          | Max                                                                  | 0.418                  | 0.418    | 0.001  |
|          | Average                                                              | 0.416                  | 0.415    | -0.001 |
|          | Min                                                                  | 0.412                  | 0.412    | -0.002 |
|          | Std Dev                                                              | 0.001                  | 0.001    | 0.001  |



|             |                        |       |       |       |
|-------------|------------------------|-------|-------|-------|
|             | 37.17_Pgood Op4 Rising |       |       |       |
| Test Site   |                        |       |       |       |
| Tester      |                        |       |       |       |
| Test Number |                        |       |       |       |
| Max Limit   | 0.43                   | V     |       |       |
| Min Limit   | 0.36                   | V     |       |       |
| kRad(Si)    | 20                     | 25    | 30    | 35    |
| LL          | 0.360                  | 0.360 | 0.360 | 0.360 |
| Min         | 0.414                  | 0.415 | 0.414 | 0.412 |
| Average     | 0.415                  | 0.415 | 0.416 | 0.414 |
| Max         | 0.418                  | 0.416 | 0.418 | 0.415 |
| UL          | 0.430                  | 0.430 | 0.430 | 0.430 |

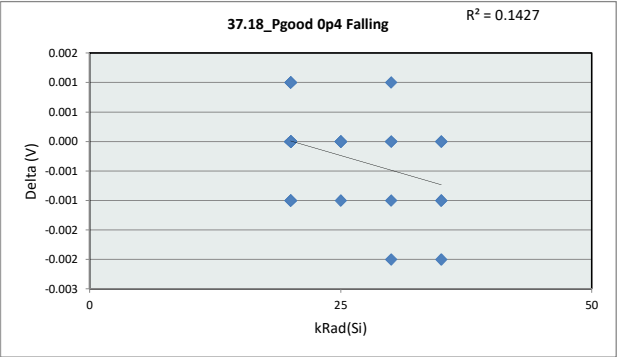




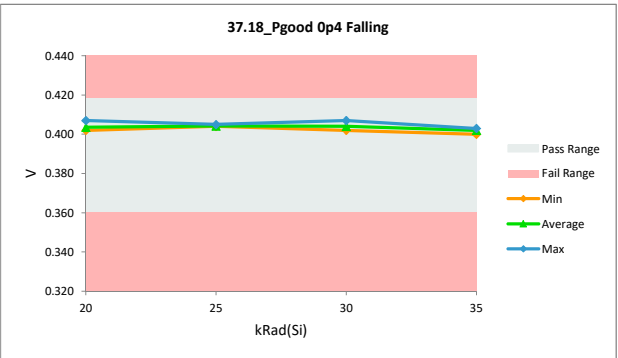
HDR TID Report  
TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.18_Pgood Op4 Falling |          |         |          |        |
|-------------------------|----------|---------|----------|--------|
| Test Site               |          |         |          |        |
| Tester                  |          |         |          |        |
| Test Number             |          |         |          |        |
| Unit                    | V        | V       |          |        |
| Max Limit               | 0.418    | 0.418   |          |        |
| Min Limit               | 0.36     | 0.36    |          |        |
| kRad(Si)                | Serial # | Pre_HDR | Post_HDR | Delta  |
| 20                      | 61       | 0.404   | 0.403    | -0.001 |
| 20                      | 62       | 0.404   | 0.404    | 0.000  |
| 20                      | 63       | 0.404   | 0.404    | 0.000  |
| 20                      | 64       | 0.402   | 0.402    | 0.000  |
| 20                      | 65       | 0.402   | 0.403    | 0.001  |
| 20                      | 67       | 0.404   | 0.404    | 0.000  |
| 20                      | 68       | 0.403   | 0.403    | 0.000  |
| 20                      | 69       | 0.402   | 0.403    | 0.001  |
| 20                      | 70       | 0.404   | 0.404    | 0.000  |
| 20                      | 71       | 0.403   | 0.402    | -0.001 |
| 20                      | 72       | 0.404   | 0.404    | 0.000  |
| 20                      | 73       | 0.404   | 0.404    | 0.000  |
| 20                      | 74       | 0.404   | 0.403    | -0.001 |
| 20                      | 75       | 0.403   | 0.403    | 0.000  |
| 20                      | 76       | 0.404   | 0.404    | 0.000  |
| 20                      | 77       | 0.405   | 0.404    | -0.001 |
| 20                      | 78       | 0.402   | 0.402    | 0.000  |
| 20                      | 79       | 0.402   | 0.403    | 0.001  |
| 20                      | 80       | 0.402   | 0.402    | 0.000  |
| 20                      | 81       | 0.406   | 0.406    | 0.000  |
| 20                      | 82       | 0.403   | 0.403    | 0.000  |
| 20                      | 83       | 0.406   | 0.407    | 0.001  |
| 25                      | 84       | 0.404   | 0.404    | 0.000  |
| 25                      | 85       | 0.405   | 0.404    | -0.001 |
| 25                      | 86       | 0.405   | 0.405    | 0.000  |
| 25                      | 87       | 0.404   | 0.404    | 0.000  |
| 25                      | 88       | 0.404   | 0.404    | 0.000  |
| 30                      | 89       | 0.406   | 0.407    | 0.001  |
| 30                      | 90       | 0.406   | 0.404    | -0.002 |
| 30                      | 91       | 0.402   | 0.402    | 0.000  |
| 30                      | 92       | 0.404   | 0.403    | -0.001 |
| 30                      | 93       | 0.404   | 0.404    | 0.000  |
| 35                      | 94       | 0.404   | 0.403    | -0.001 |
| 35                      | 95       | 0.403   | 0.403    | 0.000  |
| 35                      | 96       | 0.401   | 0.400    | -0.001 |
| 35                      | 97       | 0.404   | 0.402    | -0.002 |
| 35                      | 98       | 0.402   | 0.402    | 0.000  |
| Max                     |          | 0.406   | 0.407    | 0.001  |
| Average                 |          | 0.404   | 0.403    | 0.000  |
| Min                     |          | 0.401   | 0.400    | -0.002 |
| Std Dev                 |          | 0.001   | 0.001    | 0.001  |



| 37.18_Pgood Op4 Falling |       |       |       |       |
|-------------------------|-------|-------|-------|-------|
| Test Site               |       |       |       |       |
| Tester                  |       |       |       |       |
| Test Number             |       |       |       |       |
| Max Limit               | 0.418 | V     |       |       |
| Min Limit               | 0.36  | V     |       |       |
| kRad(Si)                | 20    | 25    | 30    | 35    |
| LL                      | 0.360 | 0.360 | 0.360 | 0.360 |
| Min                     | 0.402 | 0.404 | 0.402 | 0.400 |
| Average                 | 0.404 | 0.404 | 0.404 | 0.402 |
| Max                     | 0.407 | 0.405 | 0.407 | 0.403 |
| UL                      | 0.418 | 0.418 | 0.418 | 0.418 |

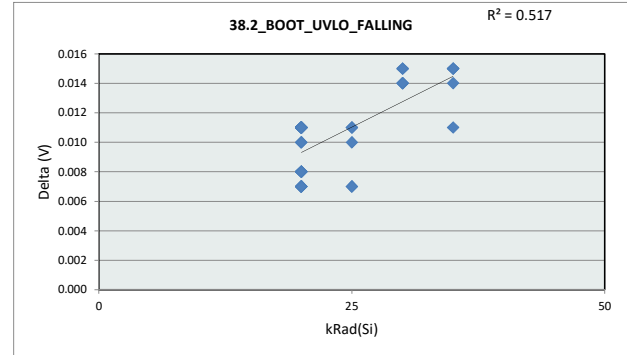


# HDR TID Report

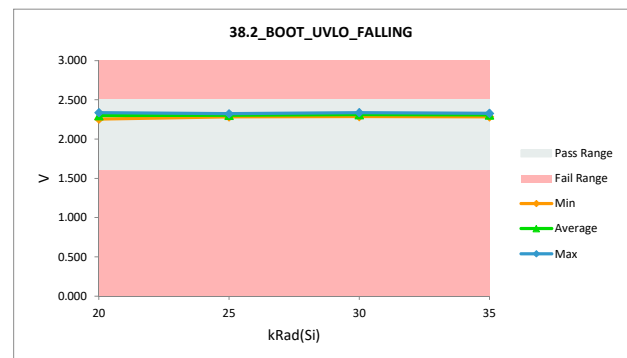
## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

|          | Test Site<br>Tester<br>Test Number<br>Unit<br>Max Limit<br>Min Limit | 38.2_BOOT_UVLO_FALLING |          |       |
|----------|----------------------------------------------------------------------|------------------------|----------|-------|
|          |                                                                      |                        |          |       |
|          |                                                                      |                        |          |       |
|          |                                                                      | V                      | V        |       |
|          |                                                                      | 2.5                    | 2.5      |       |
|          |                                                                      | 1.6                    | 1.6      |       |
| kRad(Si) | Serial #                                                             | Pre_HDR                | Post_HDR | Delta |
| 20       | 61                                                                   | 2.308                  | 2.315    | 0.007 |
| 20       | 62                                                                   | 2.276                  | 2.286    | 0.010 |
| 20       | 63                                                                   | 2.261                  | 2.272    | 0.011 |
| 20       | 64                                                                   | 2.326                  | 2.337    | 0.011 |
| 20       | 65                                                                   | 2.261                  | 2.272    | 0.011 |
| 20       | 67                                                                   | 2.286                  | 2.297    | 0.011 |
| 20       | 68                                                                   | 2.286                  | 2.294    | 0.008 |
| 20       | 69                                                                   | 2.286                  | 2.294    | 0.008 |
| 20       | 70                                                                   | 2.283                  | 2.294    | 0.011 |
| 20       | 71                                                                   | 2.301                  | 2.312    | 0.011 |
| 20       | 72                                                                   | 2.304                  | 2.312    | 0.008 |
| 20       | 73                                                                   | 2.283                  | 2.294    | 0.011 |
| 20       | 74                                                                   | 2.301                  | 2.312    | 0.011 |
| 20       | 75                                                                   | 2.297                  | 2.308    | 0.011 |
| 20       | 76                                                                   | 2.286                  | 2.297    | 0.011 |
| 20       | 77                                                                   | 2.272                  | 2.283    | 0.011 |
| 20       | 78                                                                   | 2.319                  | 2.326    | 0.007 |
| 20       | 79                                                                   | 2.247                  | 2.254    | 0.007 |
| 20       | 80                                                                   | 2.286                  | 2.294    | 0.008 |
| 20       | 81                                                                   | 2.279                  | 2.286    | 0.007 |
| 20       | 82                                                                   | 2.294                  | 2.304    | 0.010 |
| 20       | 83                                                                   | 2.301                  | 2.308    | 0.007 |
| 25       | 84                                                                   | 2.301                  | 2.308    | 0.007 |
| 25       | 85                                                                   | 2.297                  | 2.308    | 0.011 |
| 25       | 86                                                                   | 2.283                  | 2.294    | 0.011 |
| 25       | 87                                                                   | 2.276                  | 2.283    | 0.007 |
| 25       | 88                                                                   | 2.312                  | 2.322    | 0.010 |
| 30       | 89                                                                   | 2.279                  | 2.294    | 0.015 |
| 30       | 90                                                                   | 2.312                  | 2.326    | 0.014 |
| 30       | 91                                                                   | 2.272                  | 2.286    | 0.014 |
| 30       | 92                                                                   | 2.322                  | 2.337    | 0.015 |
| 30       | 93                                                                   | 2.290                  | 2.304    | 0.014 |
| 35       | 94                                                                   | 2.286                  | 2.301    | 0.015 |
| 35       | 95                                                                   | 2.272                  | 2.283    | 0.011 |
| 35       | 96                                                                   | 2.304                  | 2.319    | 0.015 |
| 35       | 97                                                                   | 2.297                  | 2.312    | 0.015 |
| 35       | 98                                                                   | 2.312                  | 2.326    | 0.014 |
|          | Max                                                                  | 2.326                  | 2.337    | 0.015 |
|          | Average                                                              | 2.291                  | 2.301    | 0.011 |
|          | Min                                                                  | 2.247                  | 2.254    | 0.007 |
|          | Std Dev                                                              | 0.018                  | 0.018    | 0.003 |



| 38.2_BOOT_UVLO_FALLING |       |       |       |       |
|------------------------|-------|-------|-------|-------|
| Test Site              |       |       |       |       |
| Test Site              |       |       |       |       |
| Test Number            |       |       |       |       |
| Max Limit              | 2.5   | V     |       |       |
| Min Limit              | 1.6   | V     |       |       |
| kRad(Si)               | 20    | 25    | 30    | 35    |
| LL                     | 1.600 | 1.600 | 1.600 | 1.600 |
| Min                    | 2.254 | 2.283 | 2.286 | 2.283 |
| Average                | 2.298 | 2.303 | 2.309 | 2.308 |
| Max                    | 2.337 | 2.322 | 2.337 | 2.326 |
| UL                     | 2.500 | 2.500 | 2.500 | 2.500 |



## B Appendix B: LDR TID Report

This appendix contains the LDR TID report data.

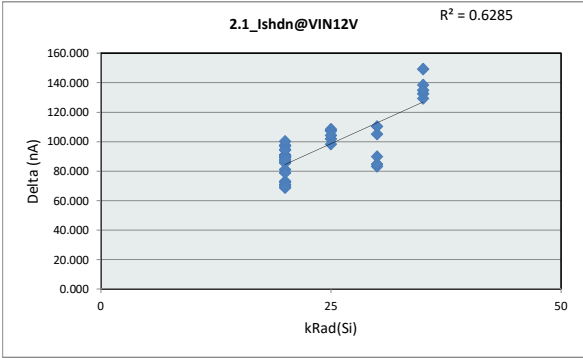
# LDR TID Report

## TPS7H4010-SEP

| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 2.1_Ishdn@VIN12V |       |       |
|------------------|-------|-------|
| Test Site        |       |       |
| Tester           |       |       |
| Test Number      |       |       |
| Unit             | nA    | nA    |
| Max Limit        | 10000 | 10000 |
| Min Limit        | 400   | 400   |

| kRad(Si) | Serial # | Pre_LDR  | Post_LDR | Delta   |
|----------|----------|----------|----------|---------|
| 25       | 1        | 1027.910 | 1126.230 | 98.320  |
| 25       | 2        | 1003.270 | 1111.820 | 108.550 |
| 25       | 3        | 985.800  | 1093.120 | 107.320 |
| 25       | 4        | 1034.930 | 1136.770 | 101.840 |
| 25       | 5        | 1006.480 | 1110.900 | 104.420 |
| 20       | 6        | 1003.050 | 1071.810 | 68.760  |
| 20       | 7        | 949.290  | 1040.500 | 91.210  |
| 20       | 8        | 1019.860 | 1090.540 | 70.680  |
| 20       | 9        | 973.650  | 1064.070 | 90.420  |
| 20       | 10       | 987.750  | 1077.320 | 89.570  |
| 20       | 11       | 1000.850 | 1095.510 | 94.660  |
| 20       | 12       | 910.040  | 997.000  | 86.960  |
| 20       | 13       | 994.390  | 1084.280 | 89.890  |
| 20       | 14       | 946.900  | 1044.050 | 97.150  |
| 20       | 15       | 1025.650 | 1098.790 | 73.140  |
| 20       | 16       | 976.580  | 1062.180 | 85.600  |
| 20       | 17       | 1003.620 | 1092.930 | 89.310  |
| 20       | 18       | 1021.430 | 1094.030 | 72.600  |
| 20       | 19       | 1005.090 | 1076.060 | 70.970  |
| 20       | 20       | 1020.640 | 1089.880 | 69.240  |
| 20       | 21       | 986.370  | 1067.470 | 81.100  |
| 20       | 22       | 994.580  | 1092.270 | 97.690  |
| 20       | 23       | 932.610  | 1032.880 | 100.270 |
| 20       | 24       | 970.160  | 1060.450 | 90.290  |
| 20       | 25       | 989.670  | 1084.150 | 94.480  |
| 20       | 26       | 958.290  | 1046.260 | 87.970  |
| 20       | 27       | 1043.710 | 1122.710 | 79.000  |
| 35       | 28       | 1009.470 | 1138.850 | 129.380 |
| 35       | 29       | 980.200  | 1112.730 | 132.530 |
| 35       | 30       | 942.210  | 1091.550 | 149.340 |
| 35       | 31       | 986.810  | 1125.290 | 138.480 |
| 35       | 32       | 1032.480 | 1167.490 | 135.010 |
| 30       | 33       | 1013.060 | 1096.330 | 83.270  |
| 30       | 34       | 1009.750 | 1094.570 | 84.820  |
| 30       | 35       | 938.430  | 1043.580 | 105.150 |
| 30       | 36       | 1005.940 | 1116.320 | 110.380 |
| 30       | 37       | 1007.770 | 1097.650 | 89.880  |
| Max      |          | 1043.710 | 1167.490 | 149.340 |
| Average  |          | 991.856  | 1087.793 | 95.936  |
| Min      |          | 910.040  | 997.000  | 68.760  |
| Std Dev  |          | 31.314   | 33.557   | 20.020  |



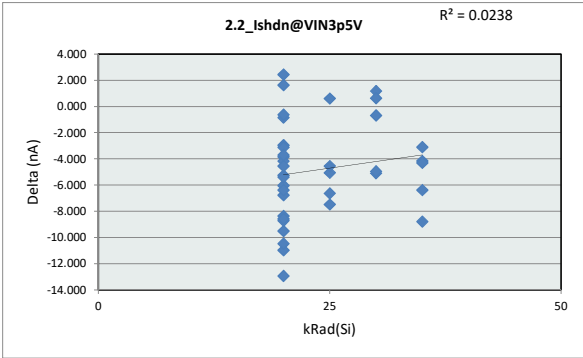
# LDR TID Report

## TPS7H4010-SEP

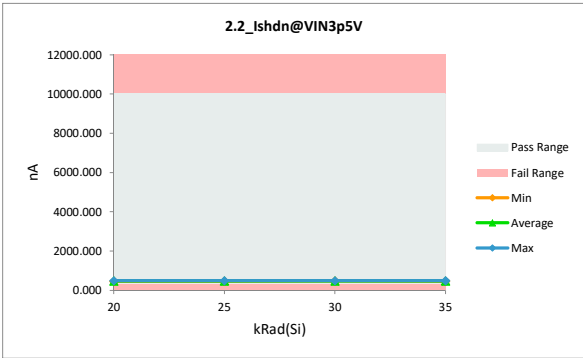
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 2.2_Ishdn@VIN3p5V |       |       |
|-------------------|-------|-------|
| Test Site         |       |       |
| Tester            |       |       |
| Test Number       |       |       |
| Unit              | nA    | nA    |
| Max Limit         | 10000 | 10000 |
| Min Limit         | 295   | 295   |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta   |
|----------|----------|---------|----------|---------|
| 25       | 1        | 471.270 | 464.630  | -6.640  |
| 25       | 2        | 478.610 | 473.540  | -5.070  |
| 25       | 3        | 483.520 | 484.120  | 0.600   |
| 25       | 4        | 473.380 | 465.890  | -7.490  |
| 25       | 5        | 474.920 | 470.360  | -4.560  |
| 20       | 6        | 480.900 | 467.970  | -12.930 |
| 20       | 7        | 470.270 | 466.430  | -3.840  |
| 20       | 8        | 474.920 | 468.880  | -6.040  |
| 20       | 9        | 480.620 | 479.770  | -0.850  |
| 20       | 10       | 484.050 | 475.680  | -8.370  |
| 20       | 11       | 486.850 | 482.670  | -4.180  |
| 20       | 12       | 457.300 | 456.670  | -0.630  |
| 20       | 13       | 484.680 | 477.910  | -6.770  |
| 20       | 14       | 484.180 | 481.220  | -2.960  |
| 20       | 15       | 478.800 | 469.290  | -9.510  |
| 20       | 16       | 487.100 | 476.120  | -10.980 |
| 20       | 17       | 489.780 | 484.520  | -5.260  |
| 20       | 18       | 476.060 | 465.580  | -10.480 |
| 20       | 19       | 473.100 | 468.540  | -4.560  |
| 20       | 20       | 480.590 | 477.470  | -3.120  |
| 20       | 21       | 474.520 | 465.800  | -8.720  |
| 20       | 22       | 480.970 | 482.600  | 1.630   |
| 20       | 23       | 488.180 | 482.790  | -5.390  |
| 20       | 24       | 478.950 | 481.380  | 2.430   |
| 20       | 25       | 488.430 | 482.040  | -6.390  |
| 20       | 26       | 484.680 | 480.970  | -3.710  |
| 20       | 27       | 478.320 | 469.730  | -8.590  |
| 35       | 28       | 471.530 | 462.740  | -8.790  |
| 35       | 29       | 486.730 | 482.570  | -4.160  |
| 35       | 30       | 485.590 | 481.280  | -4.310  |
| 35       | 31       | 483.640 | 480.530  | -3.110  |
| 35       | 32       | 477.410 | 471.020  | -6.390  |
| 30       | 33       | 480.090 | 474.990  | -5.100  |
| 30       | 34       | 478.800 | 473.850  | -4.950  |
| 30       | 35       | 475.740 | 475.050  | -0.690  |
| 30       | 36       | 483.640 | 484.810  | 1.170   |
| 30       | 37       | 473.070 | 473.700  | 0.630   |
| Max      |          | 489.780 | 484.810  | 2.430   |
| Average  |          | 479.492 | 474.679  | -4.813  |
| Min      |          | 457.300 | 456.670  | -12.930 |
| Std Dev  |          | 6.551   | 7.321    | 3.686   |



| 2.2_Ishdn@VIN3p5V |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|
| Test Site         |           |           |           |           |
| Tester            |           |           |           |           |
| Test Number       |           |           |           |           |
| Max Limit         | 10000     | nA        |           |           |
| Min Limit         | 295       | nA        |           |           |
| kRad(Si)          | 20        | 25        | 30        | 35        |
| LL                | 295.000   | 295.000   | 295.000   | 295.000   |
| Min               | 456.670   | 464.630   | 473.700   | 462.740   |
| Average           | 474.729   | 471.708   | 476.480   | 475.628   |
| Max               | 484.520   | 484.120   | 484.810   | 482.570   |
| UL                | 10000.000 | 10000.000 | 10000.000 | 10000.000 |



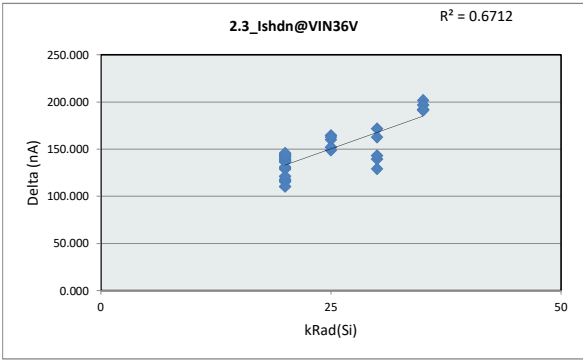
# LDR TID Report

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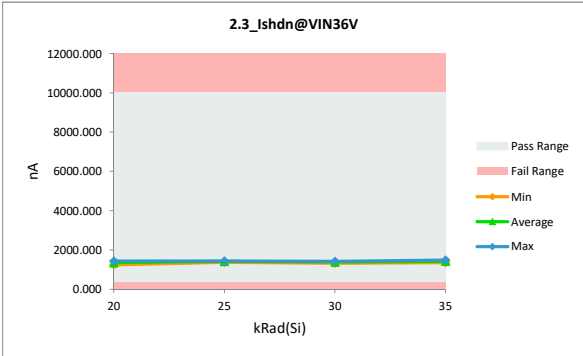
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 2.3_Ishdn@VIN36V |       |       |
|------------------|-------|-------|
| Test Site        |       |       |
| Tester           |       |       |
| Test Number      |       |       |
| Unit             | nA    | nA    |
| Max Limit        | 10000 | 10000 |
| Min Limit        | 345   | 345   |

| kRad(Si) | Serial # | Pre_LDR  | Post_LDR | Delta   |
|----------|----------|----------|----------|---------|
| 25       | 1        | 1282.220 | 1431.050 | 148.830 |
| 25       | 2        | 1250.780 | 1415.310 | 164.530 |
| 25       | 3        | 1215.340 | 1375.470 | 160.130 |
| 25       | 4        | 1278.190 | 1430.360 | 152.170 |
| 25       | 5        | 1248.860 | 1411.530 | 162.670 |
| 20       | 6        | 1247.380 | 1363.220 | 115.840 |
| 20       | 7        | 1162.120 | 1299.990 | 137.870 |
| 20       | 8        | 1263.710 | 1379.340 | 115.630 |
| 20       | 9        | 1211.840 | 1353.340 | 141.500 |
| 20       | 10       | 1219.590 | 1358.220 | 138.630 |
| 20       | 11       | 1247.500 | 1386.070 | 138.570 |
| 20       | 12       | 1114.970 | 1243.810 | 128.840 |
| 20       | 13       | 1228.020 | 1371.120 | 143.100 |
| 20       | 14       | 1166.020 | 1311.230 | 145.210 |
| 20       | 15       | 1274.980 | 1392.240 | 117.260 |
| 20       | 16       | 1208.190 | 1345.000 | 136.810 |
| 20       | 17       | 1247.350 | 1386.260 | 138.910 |
| 20       | 18       | 1270.350 | 1380.850 | 110.500 |
| 20       | 19       | 1247.970 | 1365.770 | 117.800 |
| 20       | 20       | 1264.720 | 1385.850 | 121.130 |
| 20       | 21       | 1204.450 | 1341.190 | 136.740 |
| 20       | 22       | 1236.680 | 1377.420 | 140.740 |
| 20       | 23       | 1145.910 | 1290.390 | 144.480 |
| 20       | 24       | 1188.180 | 1331.910 | 143.730 |
| 20       | 25       | 1222.950 | 1365.360 | 142.410 |
| 20       | 26       | 1174.330 | 1320.140 | 145.810 |
| 20       | 27       | 1303.490 | 1434.480 | 130.990 |
| 35       | 28       | 1254.430 | 1446.440 | 192.010 |
| 35       | 29       | 1214.830 | 1406.590 | 191.760 |
| 35       | 30       | 1156.320 | 1358.000 | 201.680 |
| 35       | 31       | 1225.090 | 1421.920 | 196.830 |
| 35       | 32       | 1292.350 | 1483.480 | 191.130 |
| 30       | 33       | 1261.000 | 1390.200 | 129.200 |
| 30       | 34       | 1251.120 | 1390.640 | 139.520 |
| 30       | 35       | 1151.320 | 1314.000 | 162.680 |
| 30       | 36       | 1247.720 | 1419.280 | 171.560 |
| 30       | 37       | 1256.540 | 1399.790 | 143.250 |
| Max      |          | 1303.490 | 1483.480 | 201.680 |
| Average  |          | 1228.022 | 1375.061 | 147.039 |
| Min      |          | 1114.970 | 1243.810 | 110.500 |
| Std Dev  |          | 44.979   | 47.904   | 23.774  |



| 2.3_Ishdn@VIN36V |           |           |           |           |
|------------------|-----------|-----------|-----------|-----------|
| Test Site        |           |           |           |           |
| Tester           |           |           |           |           |
| Test Number      |           |           |           |           |
| Max Limit        | 10000     | nA        |           |           |
| Min Limit        | 345       | nA        |           |           |
| kRad(Si)         | 20        | 25        | 30        | 35        |
| LL               | 345.000   | 345.000   | 345.000   | 345.000   |
| Min              | 1243.810  | 1375.470  | 1314.000  | 1358.000  |
| Average          | 1353.782  | 1412.744  | 1382.782  | 1423.286  |
| Max              | 1434.480  | 1431.050  | 1419.280  | 1483.480  |
| UL               | 10000.000 | 10000.000 | 10000.000 | 10000.000 |

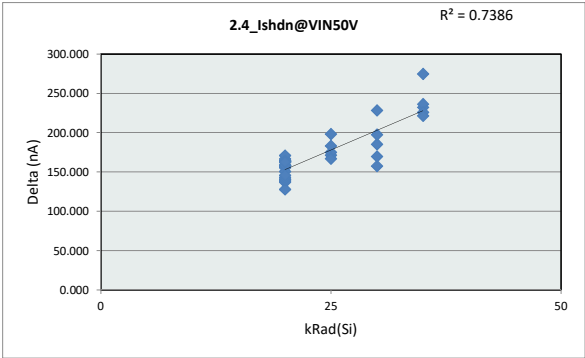


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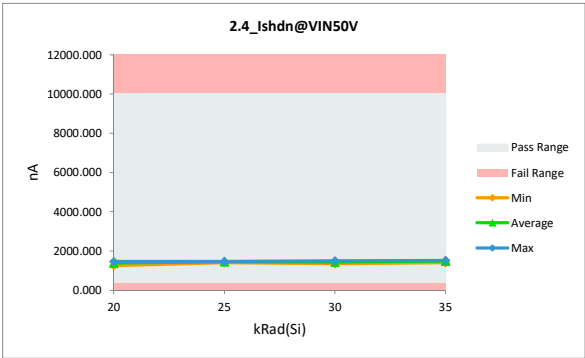
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 2.4_Ishdn@VIN50V |       |       |
|------------------|-------|-------|
| Test Site        |       |       |
| Tester           |       |       |
| Test Number      |       |       |
| Unit             | nA    | nA    |
| Max Limit        | 10000 | 10000 |
| Min Limit        | 345   | 345   |

| kRad(Si) | Serial # | Pre_LDR  | Post_LDR | Delta   |
|----------|----------|----------|----------|---------|
| 25       | 1        | 1296.190 | 1467.600 | 171.410 |
| 25       | 2        | 1271.040 | 1469.170 | 198.130 |
| 25       | 3        | 1230.020 | 1404.960 | 174.940 |
| 25       | 4        | 1292.520 | 1459.460 | 166.940 |
| 25       | 5        | 1265.260 | 1448.400 | 183.140 |
| 20       | 6        | 1269.920 | 1428.180 | 158.260 |
| 20       | 7        | 1176.520 | 1332.070 | 155.550 |
| 20       | 8        | 1282.190 | 1420.590 | 138.400 |
| 20       | 9        | 1223.830 | 1388.350 | 164.520 |
| 20       | 10       | 1235.820 | 1394.070 | 158.250 |
| 20       | 11       | 1257.660 | 1424.320 | 166.660 |
| 20       | 12       | 1124.080 | 1261.070 | 136.990 |
| 20       | 13       | 1241.380 | 1404.520 | 163.140 |
| 20       | 14       | 1184.460 | 1349.040 | 164.580 |
| 20       | 15       | 1293.610 | 1434.310 | 140.700 |
| 20       | 16       | 1221.860 | 1379.660 | 157.800 |
| 20       | 17       | 1258.100 | 1421.330 | 163.230 |
| 20       | 18       | 1279.530 | 1407.470 | 127.940 |
| 20       | 19       | 1261.170 | 1401.130 | 139.960 |
| 20       | 20       | 1277.830 | 1420.820 | 142.990 |
| 20       | 21       | 1218.250 | 1368.880 | 150.630 |
| 20       | 22       | 1248.780 | 1410.950 | 162.170 |
| 20       | 23       | 1164.150 | 1334.950 | 170.800 |
| 20       | 24       | 1205.640 | 1363.970 | 158.330 |
| 20       | 25       | 1236.870 | 1400.590 | 163.720 |
| 20       | 26       | 1190.280 | 1352.800 | 162.520 |
| 20       | 27       | 1320.790 | 1466.540 | 145.750 |
| 35       | 28       | 1267.860 | 1499.870 | 232.010 |
| 35       | 29       | 1234.410 | 1508.890 | 274.480 |
| 35       | 30       | 1166.450 | 1402.750 | 236.300 |
| 35       | 31       | 1240.680 | 1466.450 | 225.770 |
| 35       | 32       | 1300.420 | 1521.890 | 221.470 |
| 30       | 33       | 1273.600 | 1430.920 | 157.320 |
| 30       | 34       | 1277.030 | 1505.280 | 228.250 |
| 30       | 35       | 1161.830 | 1347.140 | 185.310 |
| 30       | 36       | 1264.110 | 1461.460 | 197.350 |
| 30       | 37       | 1271.160 | 1440.700 | 169.540 |
| Max      |          | 1320.790 | 1521.890 | 274.480 |
| Average  |          | 1242.846 | 1416.231 | 173.385 |
| Min      |          | 1124.080 | 1261.070 | 127.940 |
| Std Dev  |          | 45.532   | 55.581   | 32.673  |



| 2.4_Ishdn@VIN50V |           |           |           |           |
|------------------|-----------|-----------|-----------|-----------|
| Test Site        |           |           |           |           |
| Tester           |           |           |           |           |
| Test Number      |           |           |           |           |
| Max Limit        | 10000     | nA        |           |           |
| Min Limit        | 345       | nA        |           |           |
| kRad(Si)         | 20        | 25        | 30        | 35        |
| LL               | 345.000   | 345.000   | 345.000   | 345.000   |
| Min              | 1261.070  | 1404.960  | 1347.140  | 1402.750  |
| Average          | 1389.346  | 1449.918  | 1437.100  | 1479.970  |
| Max              | 1466.540  | 1469.170  | 1505.280  | 1521.890  |
| UL               | 10000.000 | 10000.000 | 10000.000 | 10000.000 |

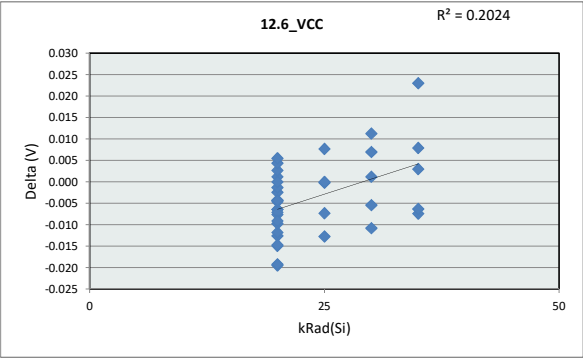


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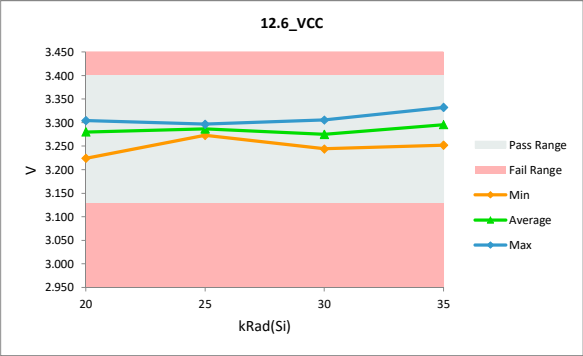
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

|             | 12.6_VCC |      |
|-------------|----------|------|
| Test Site   |          |      |
| Tester      |          |      |
| Test Number |          |      |
| Unit        | V        | V    |
| Max Limit   | 3.4      | 3.4  |
| Min Limit   | 3.13     | 3.13 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 3.274   | 3.282    | 0.008  |
| 25       | 2        | 3.286   | 3.273    | -0.013 |
| 25       | 3        | 3.304   | 3.297    | -0.007 |
| 25       | 4        | 3.295   | 3.295    | 0.000  |
| 25       | 5        | 3.287   | 3.287    | 0.000  |
| 20       | 6        | 3.274   | 3.270    | -0.004 |
| 20       | 7        | 3.308   | 3.301    | -0.006 |
| 20       | 8        | 3.295   | 3.296    | 0.001  |
| 20       | 9        | 3.303   | 3.288    | -0.015 |
| 20       | 10       | 3.280   | 3.278    | -0.002 |
| 20       | 11       | 3.237   | 3.224    | -0.013 |
| 20       | 12       | 3.257   | 3.256    | -0.001 |
| 20       | 13       | 3.286   | 3.274    | -0.012 |
| 20       | 14       | 3.288   | 3.282    | -0.006 |
| 20       | 15       | 3.272   | 3.262    | -0.010 |
| 20       | 16       | 3.293   | 3.296    | 0.003  |
| 20       | 17       | 3.295   | 3.276    | -0.020 |
| 20       | 18       | 3.298   | 3.298    | 0.000  |
| 20       | 19       | 3.297   | 3.290    | -0.008 |
| 20       | 20       | 3.307   | 3.292    | -0.015 |
| 20       | 21       | 3.309   | 3.304    | -0.005 |
| 20       | 22       | 3.280   | 3.284    | 0.004  |
| 20       | 23       | 3.278   | 3.274    | -0.004 |
| 20       | 24       | 3.285   | 3.278    | -0.007 |
| 20       | 25       | 3.276   | 3.282    | 0.005  |
| 20       | 26       | 3.284   | 3.275    | -0.009 |
| 20       | 27       | 3.303   | 3.283    | -0.019 |
| 35       | 28       | 3.309   | 3.332    | 0.023  |
| 35       | 29       | 3.296   | 3.304    | 0.008  |
| 35       | 30       | 3.280   | 3.272    | -0.007 |
| 35       | 31       | 3.259   | 3.252    | -0.006 |
| 35       | 32       | 3.315   | 3.318    | 0.003  |
| 30       | 33       | 3.299   | 3.306    | 0.007  |
| 30       | 34       | 3.272   | 3.283    | 0.011  |
| 30       | 35       | 3.255   | 3.244    | -0.011 |
| 30       | 36       | 3.257   | 3.258    | 0.001  |
| 30       | 37       | 3.288   | 3.283    | -0.005 |
|          | Max      | 3.315   | 3.332    | 0.023  |
|          | Average  | 3.286   | 3.282    | -0.004 |
|          | Min      | 3.237   | 3.224    | -0.020 |
|          | Std Dev  | 0.018   | 0.020    | 0.009  |



|             | 12.6_VCC |       |       |       |
|-------------|----------|-------|-------|-------|
| Test Site   |          |       |       |       |
| Tester      |          |       |       |       |
| Test Number |          |       |       |       |
| Max Limit   | 3.4      | V     |       |       |
| Min Limit   | 3.13     | V     |       |       |
| kRad(Si)    | 20       | 25    | 30    | 35    |
| LL          | 3.130    | 3.130 | 3.130 | 3.130 |
| Min         | 3.224    | 3.273 | 3.244 | 3.252 |
| Average     | 3.280    | 3.287 | 3.275 | 3.296 |
| Max         | 3.304    | 3.297 | 3.306 | 3.332 |
| UL          | 3.400    | 3.400 | 3.400 | 3.400 |





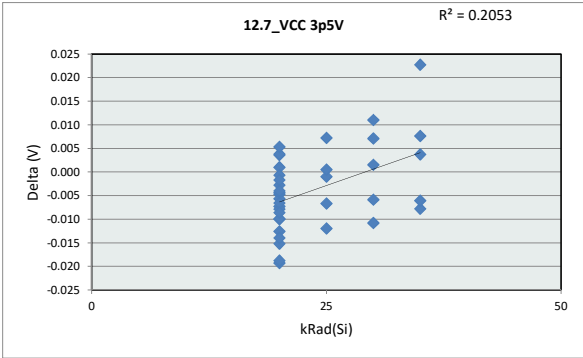
# LDR TID Report

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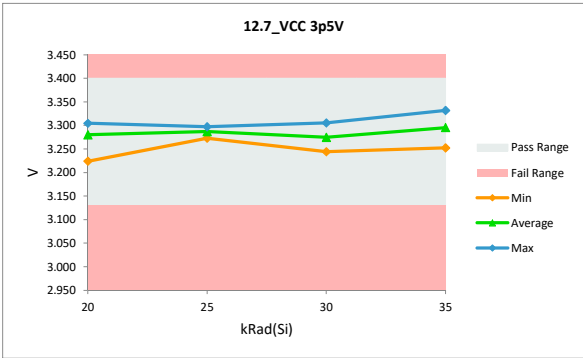
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 12.7_VCC 3p5V |      |      |
|---------------|------|------|
| Test Site     |      |      |
| Tester        |      |      |
| Test Number   |      |      |
| Unit          | V    | V    |
| Max Limit     | 3.4  | 3.4  |
| Min Limit     | 3.13 | 3.13 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 3.274   | 3.282    | 0.007  |
| 25       | 2        | 3.285   | 3.273    | -0.012 |
| 25       | 3        | 3.304   | 3.297    | -0.007 |
| 25       | 4        | 3.296   | 3.295    | -0.001 |
| 25       | 5        | 3.287   | 3.288    | 0.000  |
| 20       | 6        | 3.275   | 3.270    | -0.005 |
| 20       | 7        | 3.308   | 3.301    | -0.007 |
| 20       | 8        | 3.295   | 3.296    | 0.001  |
| 20       | 9        | 3.303   | 3.288    | -0.015 |
| 20       | 10       | 3.280   | 3.277    | -0.003 |
| 20       | 11       | 3.237   | 3.224    | -0.013 |
| 20       | 12       | 3.256   | 3.255    | -0.001 |
| 20       | 13       | 3.286   | 3.276    | -0.010 |
| 20       | 14       | 3.288   | 3.282    | -0.006 |
| 20       | 15       | 3.272   | 3.262    | -0.010 |
| 20       | 16       | 3.293   | 3.296    | 0.004  |
| 20       | 17       | 3.295   | 3.276    | -0.019 |
| 20       | 18       | 3.300   | 3.298    | -0.002 |
| 20       | 19       | 3.297   | 3.289    | -0.008 |
| 20       | 20       | 3.306   | 3.292    | -0.014 |
| 20       | 21       | 3.309   | 3.305    | -0.004 |
| 20       | 22       | 3.280   | 3.283    | 0.004  |
| 20       | 23       | 3.278   | 3.274    | -0.004 |
| 20       | 24       | 3.284   | 3.278    | -0.007 |
| 20       | 25       | 3.276   | 3.282    | 0.005  |
| 20       | 26       | 3.283   | 3.274    | -0.009 |
| 20       | 27       | 3.302   | 3.283    | -0.019 |
| 35       | 28       | 3.309   | 3.332    | 0.023  |
| 35       | 29       | 3.296   | 3.303    | 0.008  |
| 35       | 30       | 3.280   | 3.272    | -0.008 |
| 35       | 31       | 3.258   | 3.252    | -0.006 |
| 35       | 32       | 3.314   | 3.318    | 0.004  |
| 30       | 33       | 3.298   | 3.305    | 0.007  |
| 30       | 34       | 3.272   | 3.283    | 0.011  |
| 30       | 35       | 3.255   | 3.244    | -0.011 |
| 30       | 36       | 3.257   | 3.258    | 0.001  |
| 30       | 37       | 3.289   | 3.283    | -0.006 |
| Max      |          | 3.314   | 3.332    | 0.023  |
| Average  |          | 3.286   | 3.282    | -0.004 |
| Min      |          | 3.237   | 3.224    | -0.019 |
| Std Dev  |          | 0.018   | 0.020    | 0.009  |



| 12.7_VCC 3p5V |       |       |       |       |
|---------------|-------|-------|-------|-------|
| Test Site     |       |       |       |       |
| Tester        |       |       |       |       |
| Test Number   |       |       |       |       |
| Max Limit     | 3.4   | V     |       |       |
| Min Limit     | 3.13  | V     |       |       |
| kRad(Si)      | 20    | 25    | 30    | 35    |
| LL            | 3.130 | 3.130 | 3.130 | 3.130 |
| Min           | 3.224 | 3.273 | 3.244 | 3.252 |
| Average       | 3.280 | 3.287 | 3.275 | 3.295 |
| Max           | 3.305 | 3.297 | 3.305 | 3.332 |
| UL            | 3.400 | 3.400 | 3.400 | 3.400 |

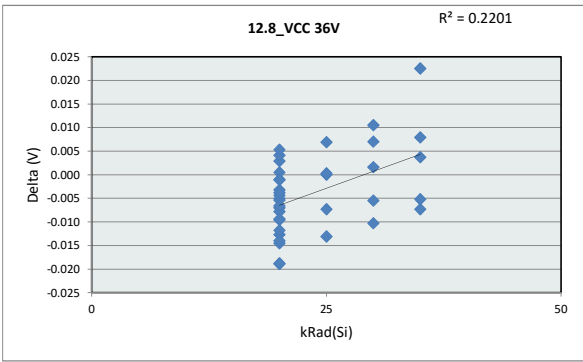


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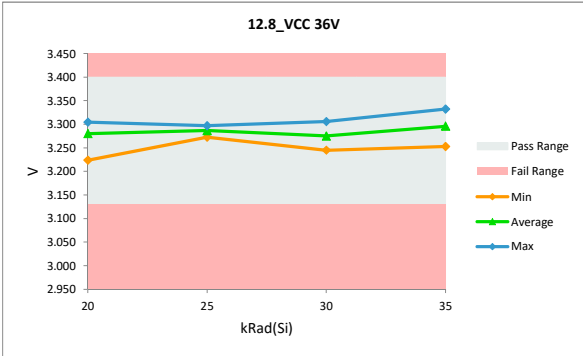
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 12.8_VCC 36V |      |      |
|--------------|------|------|
| Test Site    |      |      |
| Tester       |      |      |
| Test Number  |      |      |
| Unit         | V    | V    |
| Max Limit    | 3.4  | 3.4  |
| Min Limit    | 3.13 | 3.13 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 3.275   | 3.282    | 0.007  |
| 25       | 2        | 3.286   | 3.273    | -0.013 |
| 25       | 3        | 3.304   | 3.297    | -0.007 |
| 25       | 4        | 3.295   | 3.295    | 0.000  |
| 25       | 5        | 3.287   | 3.288    | 0.000  |
| 20       | 6        | 3.275   | 3.270    | -0.005 |
| 20       | 7        | 3.308   | 3.301    | -0.007 |
| 20       | 8        | 3.295   | 3.295    | 0.000  |
| 20       | 9        | 3.303   | 3.288    | -0.015 |
| 20       | 10       | 3.281   | 3.277    | -0.003 |
| 20       | 11       | 3.237   | 3.224    | -0.013 |
| 20       | 12       | 3.256   | 3.255    | -0.001 |
| 20       | 13       | 3.286   | 3.274    | -0.012 |
| 20       | 14       | 3.288   | 3.283    | -0.005 |
| 20       | 15       | 3.272   | 3.262    | -0.010 |
| 20       | 16       | 3.293   | 3.296    | 0.003  |
| 20       | 17       | 3.295   | 3.276    | -0.019 |
| 20       | 18       | 3.300   | 3.299    | -0.001 |
| 20       | 19       | 3.298   | 3.290    | -0.008 |
| 20       | 20       | 3.307   | 3.293    | -0.014 |
| 20       | 21       | 3.309   | 3.305    | -0.004 |
| 20       | 22       | 3.280   | 3.284    | 0.004  |
| 20       | 23       | 3.278   | 3.274    | -0.004 |
| 20       | 24       | 3.285   | 3.279    | -0.007 |
| 20       | 25       | 3.276   | 3.281    | 0.005  |
| 20       | 26       | 3.283   | 3.274    | -0.009 |
| 20       | 27       | 3.302   | 3.284    | -0.019 |
| 35       | 28       | 3.310   | 3.332    | 0.022  |
| 35       | 29       | 3.296   | 3.303    | 0.008  |
| 35       | 30       | 3.280   | 3.273    | -0.007 |
| 35       | 31       | 3.258   | 3.253    | -0.005 |
| 35       | 32       | 3.314   | 3.318    | 0.004  |
| 30       | 33       | 3.299   | 3.306    | 0.007  |
| 30       | 34       | 3.272   | 3.283    | 0.011  |
| 30       | 35       | 3.255   | 3.245    | -0.010 |
| 30       | 36       | 3.257   | 3.259    | 0.002  |
| 30       | 37       | 3.289   | 3.283    | -0.006 |
|          | Max      | 3.314   | 3.332    | 0.022  |
|          | Average  | 3.286   | 3.282    | -0.004 |
|          | Min      | 3.237   | 3.224    | -0.019 |
|          | Std Dev  | 0.018   | 0.020    | 0.009  |



| 12.8_VCC 36V |       |       |       |       |
|--------------|-------|-------|-------|-------|
| Test Site    |       |       |       |       |
| Tester       |       |       |       |       |
| Test Number  |       |       |       |       |
| Max Limit    | 3.4   | V     |       |       |
| Min Limit    | 3.13  | V     |       |       |
| kRad(Si)     | 20    | 25    | 30    | 35    |
| LL           | 3.130 | 3.130 | 3.130 | 3.130 |
| Min          | 3.224 | 3.273 | 3.245 | 3.253 |
| Average      | 3.280 | 3.287 | 3.275 | 3.296 |
| Max          | 3.305 | 3.297 | 3.306 | 3.332 |
| UL           | 3.400 | 3.400 | 3.400 | 3.400 |

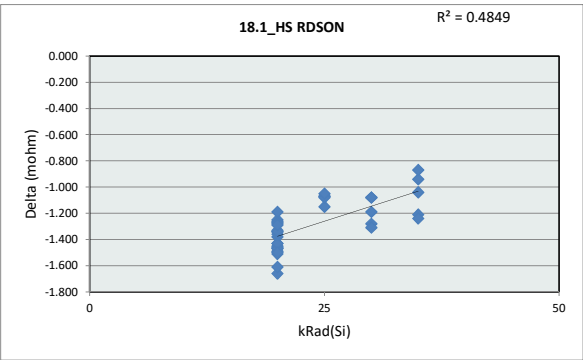


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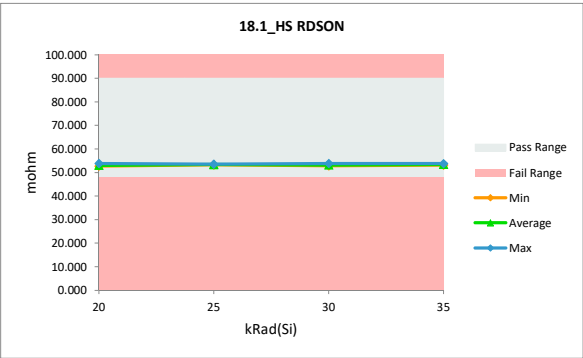
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 18.1_HS RDSON |      |      |
|---------------|------|------|
| Test Site     |      |      |
| Tester        |      |      |
| Test Number   |      |      |
| Unit          | mohm | mohm |
| Max Limit     | 90   | 90   |
| Min Limit     | 48   | 48   |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 54.530  | 53.460   | -1.070 |
| 25       | 2        | 54.330  | 53.260   | -1.070 |
| 25       | 3        | 54.400  | 53.250   | -1.150 |
| 25       | 4        | 54.620  | 53.540   | -1.080 |
| 25       | 5        | 54.260  | 53.210   | -1.050 |
| 20       | 6        | 54.480  | 52.990   | -1.490 |
| 20       | 7        | 55.320  | 53.660   | -1.660 |
| 20       | 8        | 54.290  | 52.910   | -1.380 |
| 20       | 9        | 54.130  | 52.680   | -1.450 |
| 20       | 10       | 54.200  | 52.770   | -1.430 |
| 20       | 11       | 54.320  | 52.710   | -1.610 |
| 20       | 12       | 55.200  | 53.730   | -1.470 |
| 20       | 13       | 54.240  | 52.780   | -1.460 |
| 20       | 14       | 54.530  | 53.060   | -1.470 |
| 20       | 15       | 54.280  | 52.950   | -1.330 |
| 20       | 16       | 54.230  | 52.800   | -1.430 |
| 20       | 17       | 54.190  | 52.680   | -1.510 |
| 20       | 18       | 54.670  | 53.330   | -1.340 |
| 20       | 19       | 54.230  | 52.970   | -1.260 |
| 20       | 20       | 54.240  | 52.960   | -1.280 |
| 20       | 21       | 55.350  | 53.850   | -1.500 |
| 20       | 22       | 54.430  | 53.070   | -1.360 |
| 20       | 23       | 54.850  | 53.510   | -1.340 |
| 20       | 24       | 54.010  | 52.760   | -1.250 |
| 20       | 25       | 54.130  | 52.860   | -1.270 |
| 20       | 26       | 54.470  | 53.180   | -1.290 |
| 20       | 27       | 54.340  | 53.150   | -1.190 |
| 35       | 28       | 54.230  | 53.190   | -1.040 |
| 35       | 29       | 54.590  | 53.380   | -1.210 |
| 35       | 30       | 54.840  | 53.600   | -1.240 |
| 35       | 31       | 54.050  | 53.110   | -0.940 |
| 35       | 32       | 54.650  | 53.780   | -0.870 |
| 30       | 33       | 54.140  | 53.060   | -1.080 |
| 30       | 34       | 54.280  | 53.000   | -1.280 |
| 30       | 35       | 55.180  | 53.870   | -1.310 |
| 30       | 36       | 54.020  | 52.830   | -1.190 |
| 30       | 37       | 54.130  | 53.050   | -1.080 |
| Max      |          | 55.350  | 53.870   | -0.870 |
| Average  |          | 54.443  | 53.161   | -1.282 |
| Min      |          | 54.010  | 52.680   | -1.660 |
| Std Dev  |          | 0.357   | 0.346    | 0.186  |



| 18.1_HS RDSON |        |        |        |        |
|---------------|--------|--------|--------|--------|
| Test Site     |        |        |        |        |
| Tester        |        |        |        |        |
| Test Number   |        |        |        |        |
| Max Limit     | 90     | mohm   |        |        |
| Min Limit     | 48     | mohm   |        |        |
| kRad(Si)      | 20     | 25     | 30     | 35     |
| LL            | 48.000 | 48.000 | 48.000 | 48.000 |
| Min           | 52.680 | 53.210 | 52.830 | 53.110 |
| Average       | 53.062 | 53.344 | 53.162 | 53.412 |
| Max           | 53.850 | 53.540 | 53.870 | 53.780 |
| UL            | 90.000 | 90.000 | 90.000 | 90.000 |

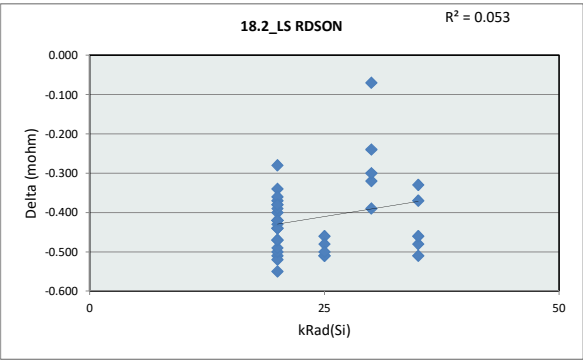


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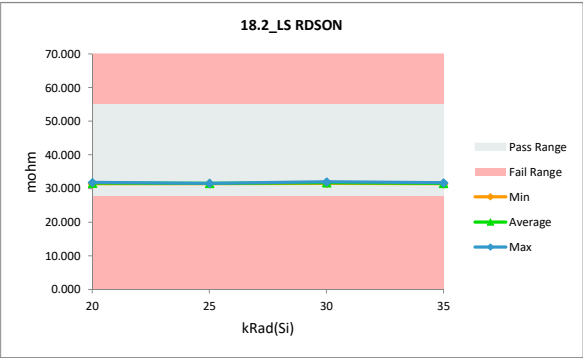
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 18.2_LS RDSON |      |      |
|---------------|------|------|
| Test Site     |      |      |
| Tester        |      |      |
| Test Number   |      |      |
| Unit          | mohm | mohm |
| Max Limit     | 55   | 55   |
| Min Limit     | 27.8 | 27.8 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 32.050  | 31.540   | -0.510 |
| 25       | 2        | 31.980  | 31.520   | -0.460 |
| 25       | 3        | 32.010  | 31.500   | -0.510 |
| 25       | 4        | 32.040  | 31.560   | -0.480 |
| 25       | 5        | 31.960  | 31.460   | -0.500 |
| 20       | 6        | 32.030  | 31.520   | -0.510 |
| 20       | 7        | 32.280  | 31.730   | -0.550 |
| 20       | 8        | 31.900  | 31.480   | -0.420 |
| 20       | 9        | 31.830  | 31.400   | -0.430 |
| 20       | 10       | 31.990  | 31.550   | -0.440 |
| 20       | 11       | 32.040  | 31.520   | -0.520 |
| 20       | 12       | 32.300  | 31.800   | -0.500 |
| 20       | 13       | 31.870  | 31.450   | -0.420 |
| 20       | 14       | 32.060  | 31.570   | -0.490 |
| 20       | 15       | 32.000  | 31.580   | -0.420 |
| 20       | 16       | 31.940  | 31.500   | -0.440 |
| 20       | 17       | 31.870  | 31.400   | -0.470 |
| 20       | 18       | 32.030  | 31.630   | -0.400 |
| 20       | 19       | 31.920  | 31.540   | -0.380 |
| 20       | 20       | 31.910  | 31.520   | -0.390 |
| 20       | 21       | 32.300  | 31.830   | -0.470 |
| 20       | 22       | 32.030  | 31.610   | -0.420 |
| 20       | 23       | 32.160  | 31.790   | -0.370 |
| 20       | 24       | 31.800  | 31.460   | -0.340 |
| 20       | 25       | 31.890  | 31.530   | -0.360 |
| 20       | 26       | 32.050  | 31.670   | -0.380 |
| 20       | 27       | 31.970  | 31.690   | -0.280 |
| 35       | 28       | 31.870  | 31.390   | -0.480 |
| 35       | 29       | 31.980  | 31.470   | -0.510 |
| 35       | 30       | 32.140  | 31.680   | -0.460 |
| 35       | 31       | 31.910  | 31.540   | -0.370 |
| 35       | 32       | 31.990  | 31.660   | -0.330 |
| 30       | 33       | 31.870  | 31.800   | -0.070 |
| 30       | 34       | 31.960  | 31.570   | -0.390 |
| 30       | 35       | 32.310  | 31.990   | -0.320 |
| 30       | 36       | 31.930  | 31.630   | -0.300 |
| 30       | 37       | 31.900  | 31.660   | -0.240 |
| Max      |          | 32.310  | 31.990   | -0.070 |
| Average  |          | 32.002  | 31.588   | -0.414 |
| Min      |          | 31.800  | 31.390   | -0.550 |
| Std Dev  |          | 0.131   | 0.134    | 0.094  |



| 18.2_LS RDSON |        |        |        |        |
|---------------|--------|--------|--------|--------|
| Test Site     |        |        |        |        |
| Tester        |        |        |        |        |
| Test Number   |        |        |        |        |
| Max Limit     | 55     | mohm   |        |        |
| Min Limit     | 27.8   | mohm   |        |        |
| kRad(Si)      | 20     | 25     | 30     | 35     |
| LL            | 27.800 | 27.800 | 27.800 | 27.800 |
| Min           | 31.400 | 31.460 | 31.570 | 31.390 |
| Average       | 31.580 | 31.516 | 31.730 | 31.548 |
| Max           | 31.830 | 31.560 | 31.990 | 31.680 |
| UL            | 55.000 | 55.000 | 55.000 | 55.000 |

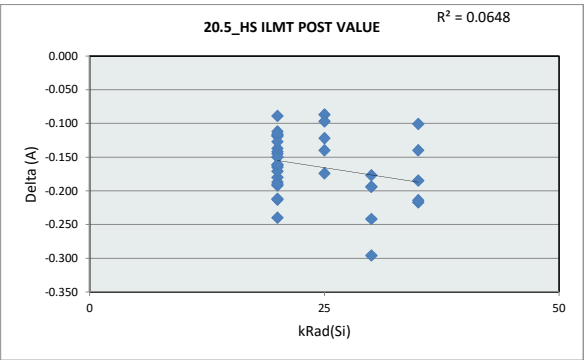


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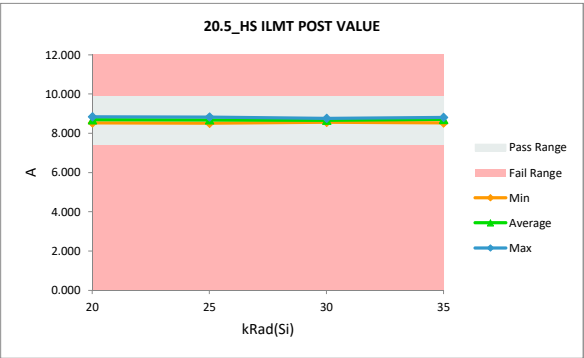
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

|             | 20.5_HS ILMT POST VALUE |      |
|-------------|-------------------------|------|
| Test Site   |                         |      |
| Tester      |                         |      |
| Test Number |                         |      |
| Unit        | A                       | A    |
| Max Limit   | 9.85                    | 9.85 |
| Min Limit   | 7.4                     | 7.4  |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 8.739   | 8.652    | -0.087 |
| 25       | 2        | 8.645   | 8.505    | -0.140 |
| 25       | 3        | 8.784   | 8.662    | -0.122 |
| 25       | 4        | 8.922   | 8.825    | -0.097 |
| 25       | 5        | 8.931   | 8.757    | -0.174 |
| 20       | 6        | 8.801   | 8.682    | -0.119 |
| 20       | 7        | 8.860   | 8.680    | -0.180 |
| 20       | 8        | 8.957   | 8.839    | -0.118 |
| 20       | 9        | 8.959   | 8.822    | -0.137 |
| 20       | 10       | 8.843   | 8.731    | -0.112 |
| 20       | 11       | 8.918   | 8.776    | -0.142 |
| 20       | 12       | 8.751   | 8.564    | -0.187 |
| 20       | 13       | 8.783   | 8.591    | -0.192 |
| 20       | 14       | 8.756   | 8.566    | -0.190 |
| 20       | 15       | 8.740   | 8.624    | -0.116 |
| 20       | 16       | 8.751   | 8.586    | -0.165 |
| 20       | 17       | 8.776   | 8.626    | -0.150 |
| 20       | 18       | 8.895   | 8.750    | -0.145 |
| 20       | 19       | 8.818   | 8.691    | -0.127 |
| 20       | 20       | 8.766   | 8.604    | -0.162 |
| 20       | 21       | 8.969   | 8.729    | -0.240 |
| 20       | 22       | 8.962   | 8.791    | -0.171 |
| 20       | 23       | 8.741   | 8.528    | -0.213 |
| 20       | 24       | 8.898   | 8.737    | -0.161 |
| 20       | 25       | 8.840   | 8.751    | -0.089 |
| 20       | 26       | 8.970   | 8.820    | -0.150 |
| 20       | 27       | 8.763   | 8.551    | -0.212 |
| 35       | 28       | 8.937   | 8.797    | -0.140 |
| 35       | 29       | 8.995   | 8.810    | -0.185 |
| 35       | 30       | 8.777   | 8.560    | -0.217 |
| 35       | 31       | 8.737   | 8.523    | -0.214 |
| 35       | 32       | 8.914   | 8.813    | -0.101 |
| 30       | 33       | 8.938   | 8.761    | -0.177 |
| 30       | 34       | 8.925   | 8.683    | -0.242 |
| 30       | 35       | 8.855   | 8.559    | -0.296 |
| 30       | 36       | 8.778   | 8.584    | -0.194 |
| 30       | 37       | 8.923   | 8.729    | -0.194 |
|          | Max      | 8.995   | 8.839    | -0.087 |
|          | Average  | 8.846   | 8.683    | -0.164 |
|          | Min      | 8.645   | 8.505    | -0.296 |
|          | Std Dev  | 0.091   | 0.103    | 0.047  |



|             | 20.5_HS ILMT POST VALUE |       |       |       |
|-------------|-------------------------|-------|-------|-------|
| Test Site   |                         |       |       |       |
| Tester      |                         |       |       |       |
| Test Number |                         |       |       |       |
| Max Limit   | 9.85                    | A     |       |       |
| Min Limit   | 7.4                     | A     |       |       |
| kRad(Si)    | 20                      | 25    | 30    | 35    |
| LL          | 7.400                   | 7.400 | 7.400 | 7.400 |
| Min         | 8.528                   | 8.505 | 8.559 | 8.523 |
| Average     | 8.684                   | 8.680 | 8.663 | 8.701 |
| Max         | 8.839                   | 8.825 | 8.761 | 8.813 |
| UL          | 9.850                   | 9.850 | 9.850 | 9.850 |

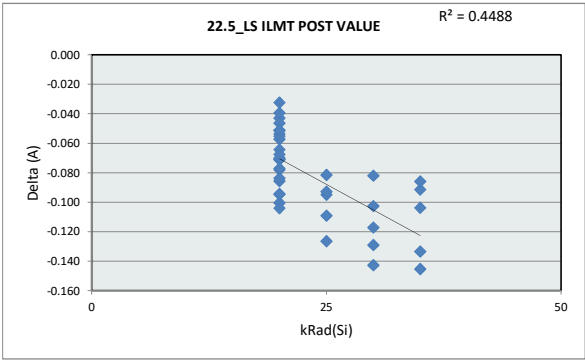


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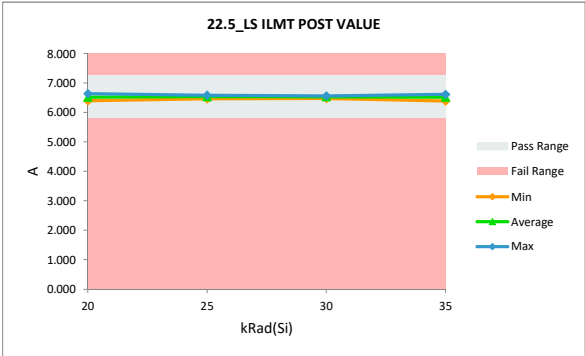
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 22.5_LS ILMT POST VALUE |      |      |
|-------------------------|------|------|
| Test Site               |      |      |
| Tester                  |      |      |
| Test Number             |      |      |
| Unit                    | A    | A    |
| Max Limit               | 7.25 | 7.25 |
| Min Limit               | 5.8  | 5.8  |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 6.639   | 6.544    | -0.095 |
| 25       | 2        | 6.695   | 6.586    | -0.109 |
| 25       | 3        | 6.552   | 6.460    | -0.093 |
| 25       | 4        | 6.685   | 6.559    | -0.126 |
| 25       | 5        | 6.616   | 6.534    | -0.082 |
| 20       | 6        | 6.662   | 6.609    | -0.054 |
| 20       | 7        | 6.502   | 6.431    | -0.071 |
| 20       | 8        | 6.628   | 6.571    | -0.057 |
| 20       | 9        | 6.560   | 6.509    | -0.051 |
| 20       | 10       | 6.648   | 6.605    | -0.043 |
| 20       | 11       | 6.674   | 6.596    | -0.078 |
| 20       | 12       | 6.491   | 6.396    | -0.095 |
| 20       | 13       | 6.626   | 6.526    | -0.100 |
| 20       | 14       | 6.510   | 6.470    | -0.040 |
| 20       | 15       | 6.572   | 6.525    | -0.046 |
| 20       | 16       | 6.667   | 6.582    | -0.086 |
| 20       | 17       | 6.703   | 6.639    | -0.064 |
| 20       | 18       | 6.542   | 6.448    | -0.094 |
| 20       | 19       | 6.559   | 6.504    | -0.055 |
| 20       | 20       | 6.593   | 6.522    | -0.071 |
| 20       | 21       | 6.644   | 6.574    | -0.070 |
| 20       | 22       | 6.545   | 6.461    | -0.084 |
| 20       | 23       | 6.579   | 6.502    | -0.077 |
| 20       | 24       | 6.614   | 6.582    | -0.032 |
| 20       | 25       | 6.520   | 6.469    | -0.051 |
| 20       | 26       | 6.487   | 6.419    | -0.068 |
| 20       | 27       | 6.557   | 6.453    | -0.104 |
| 35       | 28       | 6.676   | 6.585    | -0.091 |
| 35       | 29       | 6.525   | 6.392    | -0.133 |
| 35       | 30       | 6.637   | 6.492    | -0.145 |
| 35       | 31       | 6.698   | 6.612    | -0.086 |
| 35       | 32       | 6.608   | 6.504    | -0.104 |
| 30       | 33       | 6.643   | 6.526    | -0.117 |
| 30       | 34       | 6.643   | 6.561    | -0.082 |
| 30       | 35       | 6.694   | 6.551    | -0.143 |
| 30       | 36       | 6.656   | 6.553    | -0.103 |
| 30       | 37       | 6.602   | 6.473    | -0.129 |
| Max      |          | 6.703   | 6.639    | -0.032 |
| Average  |          | 6.607   | 6.522    | -0.085 |
| Min      |          | 6.487   | 6.392    | -0.145 |
| Std Dev  |          | 0.064   | 0.064    | 0.029  |



| 22.5_LS ILMT POST VALUE |       |       |       |       |
|-------------------------|-------|-------|-------|-------|
| Test Site               |       |       |       |       |
| Tester                  |       |       |       |       |
| Test Number             |       |       |       |       |
| Max Limit               | 7.25  | A     |       |       |
| Min Limit               | 5.8   | A     |       |       |
| kRad(Si)                | 20    | 25    | 30    | 35    |
| LL                      | 5.800 | 5.800 | 5.800 | 5.800 |
| Min                     | 6.396 | 6.460 | 6.473 | 6.392 |
| Average                 | 6.518 | 6.536 | 6.533 | 6.517 |
| Max                     | 6.639 | 6.586 | 6.561 | 6.612 |
| UL                      | 7.250 | 7.250 | 7.250 | 7.250 |

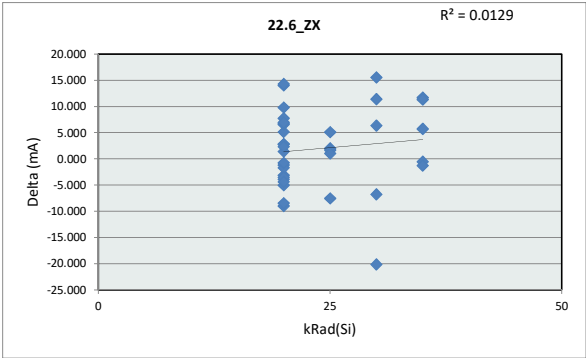


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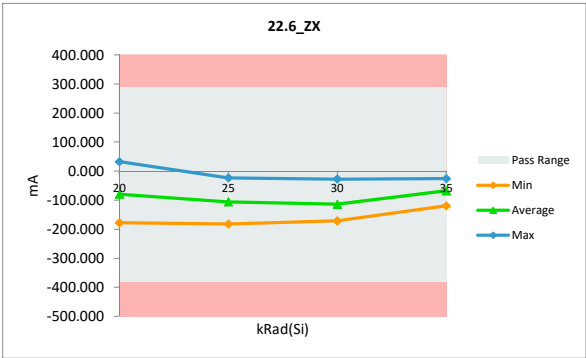
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 22.6_ZX     |      |      |
|-------------|------|------|
| Test Site   |      |      |
| Tester      |      |      |
| Test Number |      |      |
| Unit        | mA   | mA   |
| Max Limit   | 288  | 288  |
| Min Limit   | -380 | -380 |

| kRad(Si) | Serial # | Pre_LDR  | Post_LDR | Delta   |
|----------|----------|----------|----------|---------|
| 25       | 1        | -116.730 | -114.730 | 2.000   |
| 25       | 2        | -124.610 | -122.940 | 1.670   |
| 25       | 3        | -15.400  | -22.940  | -7.540  |
| 25       | 4        | -186.900 | -181.810 | 5.090   |
| 25       | 5        | -86.620  | -85.610  | 1.010   |
| 20       | 6        | -110.620 | -109.220 | 1.400   |
| 20       | 7        | 27.490   | 32.630   | 5.140   |
| 20       | 8        | -82.640  | -91.640  | -9.000  |
| 20       | 9        | -184.440 | -177.870 | 6.570   |
| 20       | 10       | -74.190  | -67.430  | 6.760   |
| 20       | 11       | -108.300 | -113.340 | -5.040  |
| 20       | 12       | -39.740  | -40.940  | -1.200  |
| 20       | 13       | -113.910 | -99.930  | 13.980  |
| 20       | 14       | -27.790  | -31.720  | -3.930  |
| 20       | 15       | -42.670  | -45.810  | -3.140  |
| 20       | 16       | -92.950  | -94.670  | -1.720  |
| 20       | 17       | -82.690  | -86.260  | -3.570  |
| 20       | 18       | -122.860 | -120.110 | 2.750   |
| 20       | 19       | -96.520  | -88.780  | 7.740   |
| 20       | 20       | -104.850 | -102.040 | 2.810   |
| 20       | 21       | -80.890  | -66.620  | 14.270  |
| 20       | 22       | -133.670 | -126.720 | 6.950   |
| 20       | 23       | -74.800  | -83.270  | -8.470  |
| 20       | 24       | -69.670  | -67.360  | 2.310   |
| 20       | 25       | -69.930  | -74.310  | -4.380  |
| 20       | 26       | -30.790  | -31.570  | -0.780  |
| 20       | 27       | -63.960  | -54.190  | 9.770   |
| 35       | 28       | -93.680  | -82.000  | 11.680  |
| 35       | 29       | -49.440  | -38.120  | 11.320  |
| 35       | 30       | -31.560  | -25.830  | 5.730   |
| 35       | 31       | -69.900  | -70.440  | -0.540  |
| 35       | 32       | -118.310 | -119.610 | -1.300  |
| 30       | 33       | -150.970 | -171.130 | -20.160 |
| 30       | 34       | -169.580 | -163.230 | 6.350   |
| 30       | 35       | -105.920 | -94.540  | 11.380  |
| 30       | 36       | -129.200 | -113.670 | 15.530  |
| 30       | 37       | -20.530  | -27.290  | -6.760  |
| Max      |          | 27.490   | 32.630   | 15.530  |
| Average  |          | -87.831  | -85.812  | 2.018   |
| Min      |          | -186.900 | -181.810 | -20.160 |
| Std Dev  |          | 47.514   | 46.877   | 7.608   |



| 22.6_ZX     |          |          |          |          |
|-------------|----------|----------|----------|----------|
| Test Site   |          |          |          |          |
| Tester      |          |          |          |          |
| Test Number |          |          |          |          |
| Max Limit   | 288      | mA       |          |          |
| Min Limit   | -380     | mA       |          |          |
| kRad(Si)    | 20       | 25       | 30       | 35       |
| LL          | -380.000 | -380.000 | -380.000 | -380.000 |
| Min         | -177.870 | -181.810 | -171.130 | -119.610 |
| Average     | -79.144  | -105.606 | -113.972 | -67.200  |
| Max         | 32.630   | -22.940  | -27.290  | -25.830  |
| UL          | 288.000  | 288.000  | 288.000  | 288.000  |

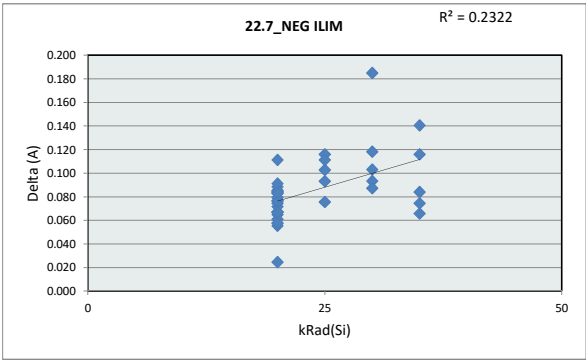


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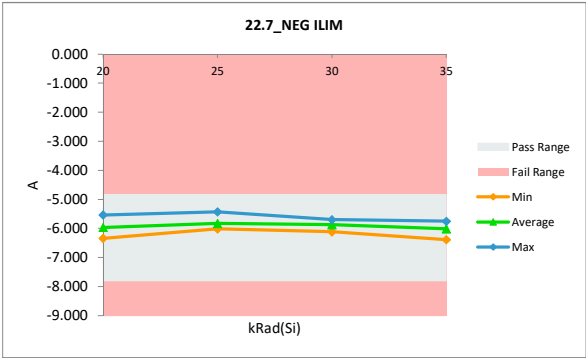
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 22.7_NEG ILIM |      |      |
|---------------|------|------|
| Test Site     |      |      |
| Tester        |      |      |
| Test Number   |      |      |
| Unit          | A    | A    |
| Max Limit     | -4.8 | -4.8 |
| Min Limit     | -7.8 | -7.8 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta |
|----------|----------|---------|----------|-------|
| 25       | 1        | -6.060  | -5.984   | 0.076 |
| 25       | 2        | -6.061  | -5.945   | 0.116 |
| 25       | 3        | -5.532  | -5.430   | 0.103 |
| 25       | 4        | -5.868  | -5.775   | 0.093 |
| 25       | 5        | -6.125  | -6.014   | 0.111 |
| 20       | 6        | -6.144  | -6.077   | 0.067 |
| 20       | 7        | -6.048  | -5.963   | 0.085 |
| 20       | 8        | -6.097  | -6.009   | 0.088 |
| 20       | 9        | -6.035  | -5.980   | 0.055 |
| 20       | 10       | -5.972  | -5.915   | 0.057 |
| 20       | 11       | -6.029  | -5.944   | 0.085 |
| 20       | 12       | -6.028  | -5.964   | 0.065 |
| 20       | 13       | -5.884  | -5.772   | 0.111 |
| 20       | 14       | -6.080  | -6.019   | 0.061 |
| 20       | 15       | -5.973  | -5.902   | 0.072 |
| 20       | 16       | -5.970  | -5.896   | 0.074 |
| 20       | 17       | -6.417  | -6.340   | 0.077 |
| 20       | 18       | -6.068  | -5.985   | 0.083 |
| 20       | 19       | -6.277  | -6.210   | 0.067 |
| 20       | 20       | -5.905  | -5.825   | 0.079 |
| 20       | 21       | -6.285  | -6.218   | 0.067 |
| 20       | 22       | -5.901  | -5.843   | 0.058 |
| 20       | 23       | -6.386  | -6.302   | 0.084 |
| 20       | 24       | -6.144  | -6.119   | 0.025 |
| 20       | 25       | -5.858  | -5.767   | 0.091 |
| 20       | 26       | -5.611  | -5.534   | 0.076 |
| 20       | 27       | -5.731  | -5.648   | 0.083 |
| 35       | 28       | -6.050  | -5.976   | 0.075 |
| 35       | 29       | -6.115  | -5.999   | 0.116 |
| 35       | 30       | -5.892  | -5.752   | 0.141 |
| 35       | 31       | -6.451  | -6.385   | 0.066 |
| 35       | 32       | -6.027  | -5.943   | 0.084 |
| 30       | 33       | -5.883  | -5.698   | 0.185 |
| 30       | 34       | -5.930  | -5.837   | 0.093 |
| 30       | 35       | -6.231  | -6.113   | 0.118 |
| 30       | 36       | -5.840  | -5.736   | 0.103 |
| 30       | 37       | -6.067  | -5.980   | 0.087 |
|          | Max      | -5.532  | -5.430   | 0.185 |
|          | Average  | -6.026  | -5.940   | 0.086 |
|          | Min      | -6.451  | -6.385   | 0.025 |
|          | Std Dev  | 0.197   | 0.205    | 0.028 |



| 22.7_NEG ILIM |        |        |        |        |
|---------------|--------|--------|--------|--------|
| Test Site     |        |        |        |        |
| Tester        |        |        |        |        |
| Test Number   |        |        |        |        |
| Max Limit     | -4.8   | A      |        |        |
| Min Limit     | -7.8   | A      |        |        |
| kRad(Si)      | 20     | 25     | 30     | 35     |
| LL            | -7.800 | -7.800 | -7.800 | -7.800 |
| Min           | -6.340 | -6.014 | -6.113 | -6.385 |
| Average       | -5.965 | -5.830 | -5.873 | -6.011 |
| Max           | -5.534 | -5.430 | -5.698 | -5.752 |
| UL            | -4.800 | -4.800 | -4.800 | -4.800 |



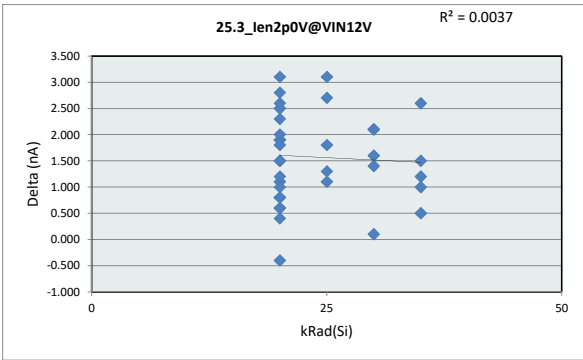


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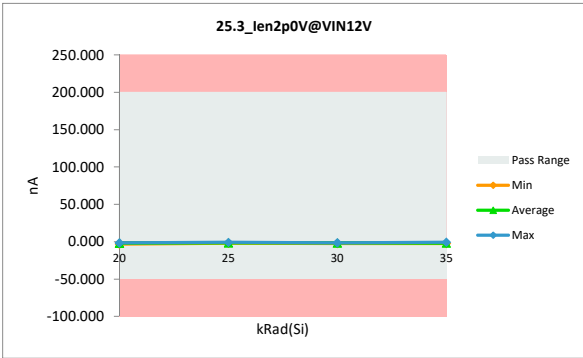
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 25.3_Ien2p0V@VIN12V |     |     |
|---------------------|-----|-----|
| Test Site           |     |     |
| Tester              |     |     |
| Test Number         |     |     |
| Unit                | nA  | nA  |
| Max Limit           | 200 | 200 |
| Min Limit           | -50 | -50 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | -4.400  | -1.700   | 2.700  |
| 25       | 2        | -2.800  | -1.500   | 1.300  |
| 25       | 3        | -3.900  | -0.800   | 3.100  |
| 25       | 4        | -3.300  | -2.200   | 1.100  |
| 25       | 5        | -3.900  | -2.100   | 1.800  |
| 20       | 6        | -4.100  | -2.200   | 1.900  |
| 20       | 7        | -4.200  | -2.700   | 1.500  |
| 20       | 8        | -3.700  | -1.800   | 1.900  |
| 20       | 9        | -3.000  | -1.900   | 1.100  |
| 20       | 10       | -3.400  | -1.600   | 1.800  |
| 20       | 11       | -4.700  | -1.600   | 3.100  |
| 20       | 12       | -3.200  | -2.800   | 0.400  |
| 20       | 13       | -3.900  | -1.900   | 2.000  |
| 20       | 14       | -4.100  | -1.600   | 2.500  |
| 20       | 15       | -3.300  | -2.500   | 0.800  |
| 20       | 16       | -3.700  | -2.200   | 1.500  |
| 20       | 17       | -4.500  | -3.000   | 1.500  |
| 20       | 18       | -3.200  | -2.600   | 0.600  |
| 20       | 19       | -4.400  | -1.600   | 2.800  |
| 20       | 20       | -2.800  | -1.600   | 1.200  |
| 20       | 21       | -3.800  | -2.800   | 1.000  |
| 20       | 22       | -5.000  | -2.500   | 2.500  |
| 20       | 23       | -3.600  | -2.800   | 0.800  |
| 20       | 24       | -3.000  | -2.400   | 0.600  |
| 20       | 25       | -4.000  | -1.700   | 2.300  |
| 20       | 26       | -4.200  | -1.600   | 2.600  |
| 20       | 27       | -2.800  | -3.200   | -0.400 |
| 35       | 28       | -2.700  | -2.200   | 0.500  |
| 35       | 29       | -3.600  | -2.100   | 1.500  |
| 35       | 30       | -3.300  | -2.300   | 1.000  |
| 35       | 31       | -3.700  | -2.500   | 1.200  |
| 35       | 32       | -3.300  | -0.700   | 2.600  |
| 30       | 33       | -3.700  | -2.300   | 1.400  |
| 30       | 34       | -3.600  | -1.500   | 2.100  |
| 30       | 35       | -3.200  | -1.600   | 1.600  |
| 30       | 36       | -3.900  | -1.800   | 2.100  |
| 30       | 37       | -1.900  | -1.800   | 0.100  |
| Max      |          | -1.900  | -0.700   | 3.100  |
| Average  |          | -3.616  | -2.046   | 1.570  |
| Min      |          | -5.000  | -3.200   | -0.400 |
| Std Dev  |          | 0.630   | 0.565    | 0.850  |



| 25.3_Ien2p0V@VIN12V |         |         |         |         |
|---------------------|---------|---------|---------|---------|
| Test Site           |         |         |         |         |
| Tester              |         |         |         |         |
| Test Number         |         |         |         |         |
| Max Limit           | 200     | nA      |         |         |
| Min Limit           | -50     | nA      |         |         |
| kRad(Si)            | 20      | 25      | 30      | 35      |
| LL                  | -50.000 | -50.000 | -50.000 | -50.000 |
| Min                 | -3.200  | -2.200  | -2.300  | -2.500  |
| Average             | -2.209  | -1.660  | -1.800  | -1.960  |
| Max                 | -1.600  | -0.800  | -1.500  | -0.700  |
| UL                  | 200.000 | 200.000 | 200.000 | 200.000 |

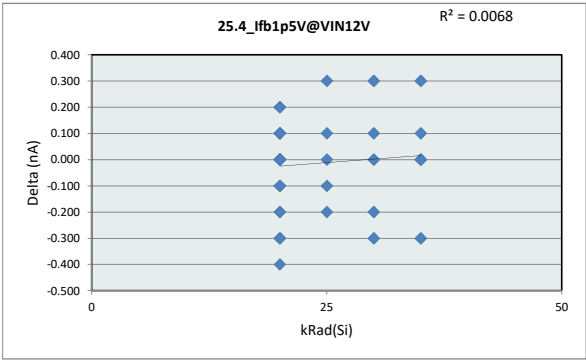


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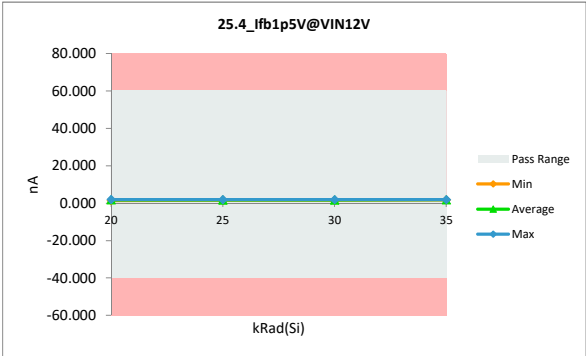
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 25.4_Ifb1p5V@VIN12V |     |     |
|---------------------|-----|-----|
| Test Site           |     |     |
| Tester              |     |     |
| Test Number         |     |     |
| Unit                | nA  | nA  |
| Max Limit           | 60  | 60  |
| Min Limit           | -40 | -40 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.600   | 1.600    | 0.000  |
| 25       | 2        | 1.600   | 1.700    | 0.100  |
| 25       | 3        | 2.000   | 1.900    | -0.100 |
| 25       | 4        | 1.800   | 1.600    | -0.200 |
| 25       | 5        | 1.600   | 1.900    | 0.300  |
| 20       | 6        | 1.800   | 1.700    | -0.100 |
| 20       | 7        | 2.000   | 1.700    | -0.300 |
| 20       | 8        | 1.900   | 2.000    | 0.100  |
| 20       | 9        | 1.800   | 1.700    | -0.100 |
| 20       | 10       | 1.700   | 1.900    | 0.200  |
| 20       | 11       | 1.800   | 1.800    | 0.000  |
| 20       | 12       | 1.600   | 1.600    | 0.000  |
| 20       | 13       | 2.000   | 2.000    | 0.000  |
| 20       | 14       | 1.700   | 1.800    | 0.100  |
| 20       | 15       | 1.700   | 1.900    | 0.200  |
| 20       | 16       | 2.100   | 2.000    | -0.100 |
| 20       | 17       | 1.600   | 1.600    | 0.000  |
| 20       | 18       | 1.600   | 1.600    | 0.000  |
| 20       | 19       | 1.800   | 1.900    | 0.100  |
| 20       | 20       | 1.700   | 1.800    | 0.100  |
| 20       | 21       | 1.800   | 1.900    | 0.100  |
| 20       | 22       | 2.100   | 1.800    | -0.300 |
| 20       | 23       | 1.700   | 1.900    | 0.200  |
| 20       | 24       | 2.000   | 1.800    | -0.200 |
| 20       | 25       | 1.800   | 1.800    | 0.000  |
| 20       | 26       | 1.700   | 1.500    | -0.200 |
| 20       | 27       | 2.000   | 1.600    | -0.400 |
| 35       | 28       | 1.800   | 1.900    | 0.100  |
| 35       | 29       | 2.100   | 1.800    | -0.300 |
| 35       | 30       | 1.600   | 1.900    | 0.300  |
| 35       | 31       | 1.900   | 1.900    | 0.000  |
| 35       | 32       | 1.800   | 1.800    | 0.000  |
| 30       | 33       | 1.700   | 1.700    | 0.000  |
| 30       | 34       | 1.500   | 1.600    | 0.100  |
| 30       | 35       | 1.600   | 1.900    | 0.300  |
| 30       | 36       | 2.000   | 1.700    | -0.300 |
| 30       | 37       | 1.900   | 1.700    | -0.200 |
| Max      |          | 2.100   | 2.000    | 0.300  |
| Average  |          | 1.795   | 1.781    | -0.014 |
| Min      |          | 1.500   | 1.500    | -0.400 |
| Std Dev  |          | 0.168   | 0.135    | 0.181  |



| 25.4_Ifb1p5V@VIN12V |         |         |         |         |
|---------------------|---------|---------|---------|---------|
| Test Site           |         |         |         |         |
| Tester              |         |         |         |         |
| Test Number         |         |         |         |         |
| Max Limit           | 60      | nA      |         |         |
| Min Limit           | -40     | nA      |         |         |
| kRad(Si)            | 20      | 25      | 30      | 35      |
| LL                  | -40.000 | -40.000 | -40.000 | -40.000 |
| Min                 | 1.500   | 1.600   | 1.600   | 1.800   |
| Average             | 1.786   | 1.740   | 1.720   | 1.860   |
| Max                 | 2.000   | 1.900   | 1.900   | 1.900   |
| UL                  | 60.000  | 60.000  | 60.000  | 60.000  |



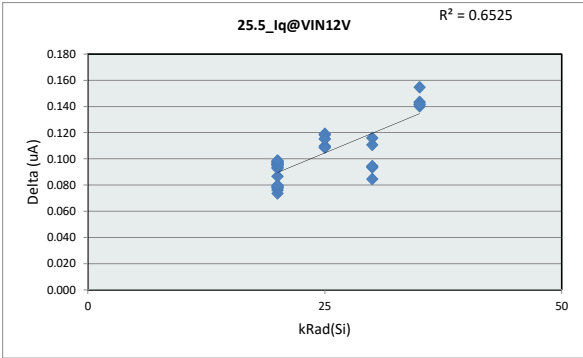
# LDR TID Report

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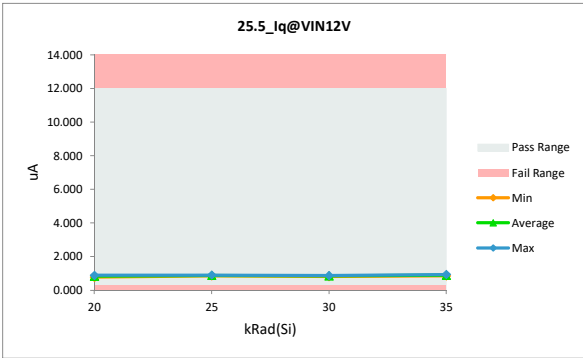
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 25.5_Iq@VIN12V |      |      |
|----------------|------|------|
| Test Site      |      |      |
| Tester         |      |      |
| Test Number    |      |      |
| Unit           | uA   | uA   |
| Max Limit      | 12   | 12   |
| Min Limit      | 0.33 | 0.33 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta |
|----------|----------|---------|----------|-------|
| 25       | 1        | 0.793   | 0.902    | 0.110 |
| 25       | 2        | 0.766   | 0.885    | 0.119 |
| 25       | 3        | 0.735   | 0.853    | 0.118 |
| 25       | 4        | 0.794   | 0.903    | 0.109 |
| 25       | 5        | 0.765   | 0.881    | 0.115 |
| 20       | 6        | 0.763   | 0.840    | 0.078 |
| 20       | 7        | 0.716   | 0.810    | 0.094 |
| 20       | 8        | 0.782   | 0.855    | 0.074 |
| 20       | 9        | 0.733   | 0.828    | 0.095 |
| 20       | 10       | 0.749   | 0.845    | 0.096 |
| 20       | 11       | 0.757   | 0.853    | 0.096 |
| 20       | 12       | 0.688   | 0.775    | 0.087 |
| 20       | 13       | 0.747   | 0.840    | 0.094 |
| 20       | 14       | 0.705   | 0.802    | 0.096 |
| 20       | 15       | 0.785   | 0.863    | 0.078 |
| 20       | 16       | 0.731   | 0.824    | 0.093 |
| 20       | 17       | 0.754   | 0.849    | 0.095 |
| 20       | 18       | 0.787   | 0.863    | 0.076 |
| 20       | 19       | 0.768   | 0.847    | 0.079 |
| 20       | 20       | 0.777   | 0.856    | 0.079 |
| 20       | 21       | 0.748   | 0.844    | 0.096 |
| 20       | 22       | 0.756   | 0.853    | 0.097 |
| 20       | 23       | 0.693   | 0.791    | 0.098 |
| 20       | 24       | 0.726   | 0.821    | 0.095 |
| 20       | 25       | 0.744   | 0.842    | 0.098 |
| 20       | 26       | 0.711   | 0.810    | 0.099 |
| 20       | 27       | 0.809   | 0.889    | 0.080 |
| 35       | 28       | 0.775   | 0.917    | 0.142 |
| 35       | 29       | 0.736   | 0.876    | 0.140 |
| 35       | 30       | 0.697   | 0.852    | 0.155 |
| 35       | 31       | 0.743   | 0.886    | 0.143 |
| 35       | 32       | 0.797   | 0.939    | 0.142 |
| 30       | 33       | 0.776   | 0.860    | 0.085 |
| 30       | 34       | 0.769   | 0.863    | 0.094 |
| 30       | 35       | 0.703   | 0.814    | 0.111 |
| 30       | 36       | 0.761   | 0.877    | 0.116 |
| 30       | 37       | 0.772   | 0.867    | 0.095 |
| Max      |          | 0.809   | 0.939    | 0.155 |
| Average  |          | 0.752   | 0.853    | 0.102 |
| Min      |          | 0.688   | 0.775    | 0.074 |
| Std Dev  |          | 0.031   | 0.035    | 0.021 |



| 25.5_Iq@VIN12V |        |        |        |        |
|----------------|--------|--------|--------|--------|
| Test Site      |        |        |        |        |
| Tester         |        |        |        |        |
| Test Number    |        |        |        |        |
| Max Limit      | 12     | uA     |        |        |
| Min Limit      | 0.33   | uA     |        |        |
| kRad(Si)       | 20     | 25     | 30     | 35     |
| LL             | 0.330  | 0.330  | 0.330  | 0.330  |
| Min            | 0.775  | 0.853  | 0.814  | 0.852  |
| Average        | 0.836  | 0.885  | 0.856  | 0.894  |
| Max            | 0.889  | 0.903  | 0.877  | 0.939  |
| UL             | 12.000 | 12.000 | 12.000 | 12.000 |

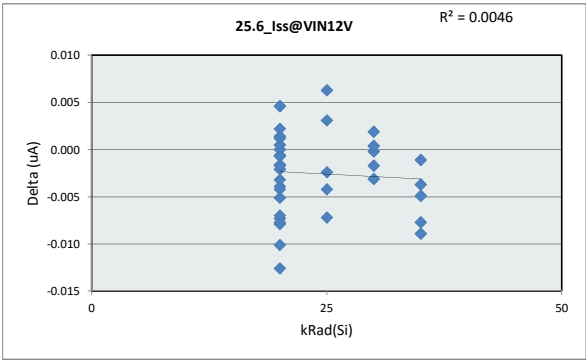


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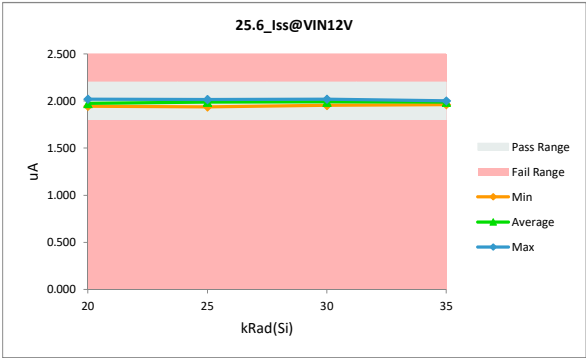
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 25.6_Iss@VIN12V |     |     |
|-----------------|-----|-----|
| Test Site       |     |     |
| Tester          |     |     |
| Test Number     |     |     |
| Unit            | uA  | uA  |
| Max Limit       | 2.2 | 2.2 |
| Min Limit       | 1.8 | 1.8 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.946   | 1.938    | -0.007 |
| 25       | 2        | 2.016   | 2.014    | -0.002 |
| 25       | 3        | 2.013   | 2.017    | 0.003  |
| 25       | 4        | 1.986   | 1.982    | -0.004 |
| 25       | 5        | 1.987   | 1.994    | 0.006  |
| 20       | 6        | 1.948   | 1.944    | -0.004 |
| 20       | 7        | 1.957   | 1.950    | -0.007 |
| 20       | 8        | 1.967   | 1.960    | -0.007 |
| 20       | 9        | 1.962   | 1.960    | -0.002 |
| 20       | 10       | 1.999   | 1.998    | -0.001 |
| 20       | 11       | 1.970   | 1.969    | -0.001 |
| 20       | 12       | 1.954   | 1.954    | 0.000  |
| 20       | 13       | 1.952   | 1.947    | -0.005 |
| 20       | 14       | 2.000   | 2.001    | 0.001  |
| 20       | 15       | 1.977   | 1.973    | -0.004 |
| 20       | 16       | 1.955   | 1.947    | -0.008 |
| 20       | 17       | 2.018   | 2.020    | 0.001  |
| 20       | 18       | 2.016   | 2.021    | 0.005  |
| 20       | 19       | 1.992   | 1.994    | 0.002  |
| 20       | 20       | 1.966   | 1.964    | -0.002 |
| 20       | 21       | 1.953   | 1.957    | 0.005  |
| 20       | 22       | 2.014   | 2.006    | -0.008 |
| 20       | 23       | 1.967   | 1.968    | 0.001  |
| 20       | 24       | 2.020   | 2.010    | -0.010 |
| 20       | 25       | 1.950   | 1.948    | -0.002 |
| 20       | 26       | 2.015   | 2.002    | -0.013 |
| 20       | 27       | 1.950   | 1.947    | -0.003 |
| 35       | 28       | 1.970   | 1.962    | -0.009 |
| 35       | 29       | 1.993   | 1.986    | -0.008 |
| 35       | 30       | 1.991   | 1.987    | -0.004 |
| 35       | 31       | 2.007   | 2.002    | -0.005 |
| 35       | 32       | 2.004   | 2.003    | -0.001 |
| 30       | 33       | 2.016   | 2.018    | 0.002  |
| 30       | 34       | 2.022   | 2.021    | -0.002 |
| 30       | 35       | 1.957   | 1.954    | -0.003 |
| 30       | 36       | 2.002   | 2.002    | 0.000  |
| 30       | 37       | 1.959   | 1.959    | 0.000  |
| Max      |          | 2.022   | 2.021    | 0.006  |
| Average  |          | 1.983   | 1.981    | -0.003 |
| Min      |          | 1.946   | 1.938    | -0.013 |
| Std Dev  |          | 0.026   | 0.027    | 0.004  |



| 25.6_Iss@VIN12V |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| Test Site       |       |       |       |       |
| Tester          |       |       |       |       |
| Test Number     |       |       |       |       |
| Max Limit       | 2.2   | uA    |       |       |
| Min Limit       | 1.8   | uA    |       |       |
| kRad(Si)        | 20    | 25    | 30    | 35    |
| LL              | 1.800 | 1.800 | 1.800 | 1.800 |
| Min             | 1.944 | 1.938 | 1.954 | 1.962 |
| Average         | 1.975 | 1.989 | 1.991 | 1.988 |
| Max             | 2.021 | 2.017 | 2.021 | 2.003 |
| UL              | 2.200 | 2.200 | 2.200 | 2.200 |

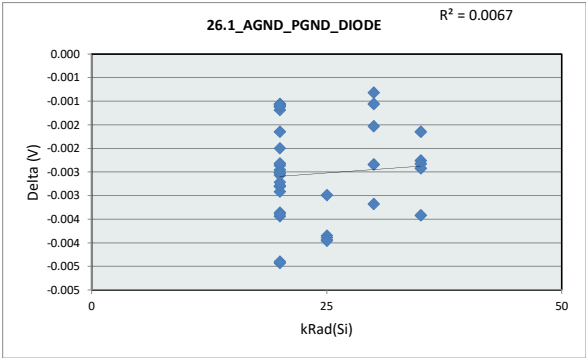


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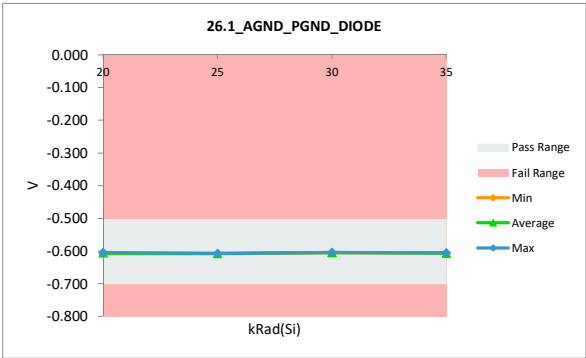
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.1_AGND_PGND_DIODE |      |      |
|----------------------|------|------|
| Test Site            |      |      |
| Tester               |      |      |
| Test Number          |      |      |
| Unit                 | V    | V    |
| Max Limit            | -0.5 | -0.5 |
| Min Limit            | -0.7 | -0.7 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | -0.604  | -0.608   | -0.004 |
| 25       | 2        | -0.604  | -0.608   | -0.004 |
| 25       | 3        | -0.605  | -0.608   | -0.003 |
| 25       | 4        | -0.604  | -0.608   | -0.004 |
| 25       | 5        | -0.603  | -0.607   | -0.004 |
| 20       | 6        | -0.602  | -0.606   | -0.004 |
| 20       | 7        | -0.604  | -0.607   | -0.003 |
| 20       | 8        | -0.603  | -0.606   | -0.003 |
| 20       | 9        | -0.604  | -0.607   | -0.003 |
| 20       | 10       | -0.603  | -0.606   | -0.003 |
| 20       | 11       | -0.604  | -0.608   | -0.004 |
| 20       | 12       | -0.603  | -0.605   | -0.002 |
| 20       | 13       | -0.603  | -0.606   | -0.003 |
| 20       | 14       | -0.604  | -0.607   | -0.002 |
| 20       | 15       | -0.603  | -0.606   | -0.003 |
| 20       | 16       | -0.603  | -0.606   | -0.002 |
| 20       | 17       | -0.604  | -0.607   | -0.003 |
| 20       | 18       | -0.604  | -0.607   | -0.003 |
| 20       | 19       | -0.604  | -0.606   | -0.003 |
| 20       | 20       | -0.602  | -0.605   | -0.003 |
| 20       | 21       | -0.604  | -0.606   | -0.002 |
| 20       | 22       | -0.605  | -0.606   | -0.001 |
| 20       | 23       | -0.604  | -0.605   | -0.001 |
| 20       | 24       | -0.604  | -0.605   | -0.001 |
| 20       | 25       | -0.604  | -0.605   | -0.001 |
| 20       | 26       | -0.604  | -0.605   | -0.001 |
| 20       | 27       | -0.604  | -0.605   | -0.002 |
| 35       | 28       | -0.603  | -0.606   | -0.003 |
| 35       | 29       | -0.605  | -0.607   | -0.002 |
| 35       | 30       | -0.605  | -0.607   | -0.002 |
| 35       | 31       | -0.603  | -0.605   | -0.002 |
| 35       | 32       | -0.604  | -0.606   | -0.002 |
| 30       | 33       | -0.603  | -0.605   | -0.002 |
| 30       | 34       | -0.603  | -0.606   | -0.003 |
| 30       | 35       | -0.604  | -0.605   | -0.001 |
| 30       | 36       | -0.603  | -0.604   | -0.001 |
| 30       | 37       | -0.603  | -0.604   | -0.002 |
|          | Max      | -0.602  | -0.604   | -0.001 |
|          | Average  | -0.604  | -0.606   | -0.003 |
|          | Min      | -0.605  | -0.608   | -0.004 |
|          | Std Dev  | 0.001   | 0.001    | 0.001  |



| 26.1_AGND_PGND_DIODE |        |        |        |        |
|----------------------|--------|--------|--------|--------|
| Test Site            |        |        |        |        |
| Tester               |        |        |        |        |
| Test Number          |        |        |        |        |
| Max Limit            | -0.5   | V      |        |        |
| Min Limit            | -0.7   | V      |        |        |
| kRad(Si)             | 20     | 25     | 30     | 35     |
| LL                   | -0.700 | -0.700 | -0.700 | -0.700 |
| Min                  | -0.608 | -0.608 | -0.606 | -0.607 |
| Average              | -0.606 | -0.608 | -0.605 | -0.606 |
| Max                  | -0.605 | -0.607 | -0.604 | -0.605 |
| UL                   | -0.500 | -0.500 | -0.500 | -0.500 |

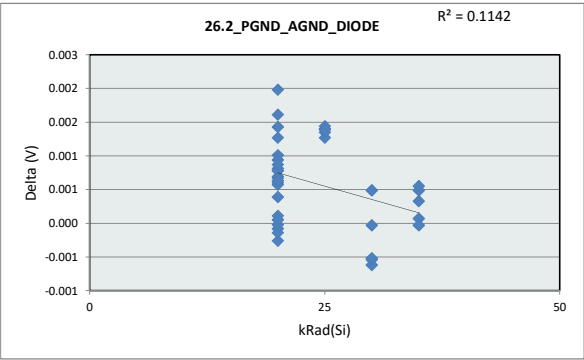


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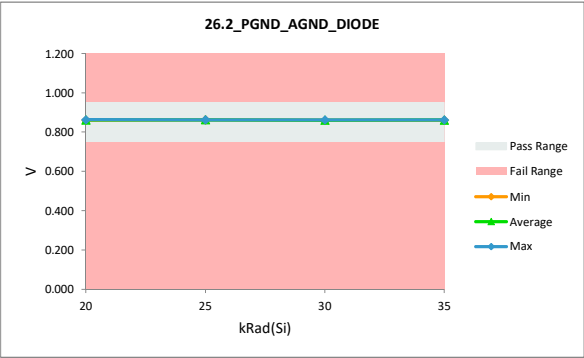
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.2_PGND_AGND_DIODE |      |      |
|----------------------|------|------|
| Test Site            |      |      |
| Tester               |      |      |
| Test Number          |      |      |
| Unit                 | V    | V    |
| Max Limit            | 0.95 | 0.95 |
| Min Limit            | 0.75 | 0.75 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.861   | 0.863    | 0.001  |
| 25       | 2        | 0.861   | 0.863    | 0.001  |
| 25       | 3        | 0.861   | 0.862    | 0.001  |
| 25       | 4        | 0.861   | 0.862    | 0.001  |
| 25       | 5        | 0.861   | 0.862    | 0.001  |
| 20       | 6        | 0.861   | 0.862    | 0.002  |
| 20       | 7        | 0.860   | 0.862    | 0.001  |
| 20       | 8        | 0.861   | 0.862    | 0.001  |
| 20       | 9        | 0.861   | 0.862    | 0.001  |
| 20       | 10       | 0.861   | 0.862    | 0.001  |
| 20       | 11       | 0.861   | 0.863    | 0.002  |
| 20       | 12       | 0.861   | 0.862    | 0.001  |
| 20       | 13       | 0.861   | 0.862    | 0.001  |
| 20       | 14       | 0.861   | 0.862    | 0.001  |
| 20       | 15       | 0.861   | 0.862    | 0.001  |
| 20       | 16       | 0.861   | 0.862    | 0.001  |
| 20       | 17       | 0.861   | 0.862    | 0.001  |
| 20       | 18       | 0.861   | 0.862    | 0.001  |
| 20       | 19       | 0.861   | 0.862    | 0.001  |
| 20       | 20       | 0.861   | 0.862    | 0.001  |
| 20       | 21       | 0.861   | 0.861    | 0.000  |
| 20       | 22       | 0.861   | 0.861    | 0.000  |
| 20       | 23       | 0.861   | 0.861    | 0.000  |
| 20       | 24       | 0.861   | 0.861    | 0.000  |
| 20       | 25       | 0.861   | 0.861    | 0.000  |
| 20       | 26       | 0.861   | 0.861    | 0.000  |
| 20       | 27       | 0.861   | 0.861    | 0.000  |
| 35       | 28       | 0.861   | 0.861    | 0.000  |
| 35       | 29       | 0.861   | 0.861    | 0.001  |
| 35       | 30       | 0.861   | 0.861    | 0.000  |
| 35       | 31       | 0.861   | 0.861    | 0.000  |
| 35       | 32       | 0.861   | 0.861    | 0.000  |
| 30       | 33       | 0.861   | 0.861    | 0.000  |
| 30       | 34       | 0.861   | 0.861    | 0.000  |
| 30       | 35       | 0.860   | 0.860    | -0.001 |
| 30       | 36       | 0.861   | 0.860    | -0.001 |
| 30       | 37       | 0.861   | 0.860    | -0.001 |
|          | Max      | 0.861   | 0.863    | 0.002  |
|          | Average  | 0.861   | 0.861    | 0.001  |
|          | Min      | 0.860   | 0.860    | -0.001 |
|          | Std Dev  | 0.000   | 0.001    | 0.001  |



| 26.2_PGND_AGND_DIODE |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Test Site            |       |       |       |       |
| Tester               |       |       |       |       |
| Test Number          |       |       |       |       |
| Max Limit            | 0.95  | V     |       |       |
| Min Limit            | 0.75  | V     |       |       |
| kRad(Si)             | 20    | 25    | 30    | 35    |
| LL                   | 0.750 | 0.750 | 0.750 | 0.750 |
| Min                  | 0.861 | 0.862 | 0.860 | 0.861 |
| Average              | 0.862 | 0.862 | 0.860 | 0.861 |
| Max                  | 0.863 | 0.863 | 0.861 | 0.861 |
| UL                   | 0.950 | 0.950 | 0.950 | 0.950 |

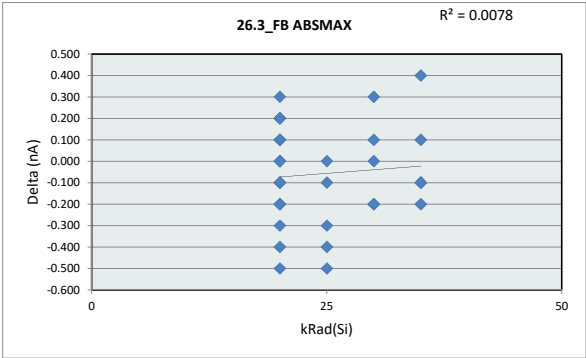


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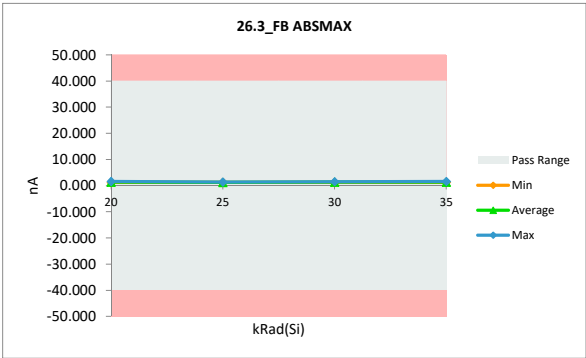
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.3_FB ABSMAX |     |     |
|----------------|-----|-----|
| Test Site      |     |     |
| Tester         |     |     |
| Test Number    |     |     |
| Unit           | nA  | nA  |
| Max Limit      | 40  | 40  |
| Min Limit      | -40 | -40 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.400   | 1.400    | 0.000  |
| 25       | 2        | 1.600   | 1.200    | -0.400 |
| 25       | 3        | 1.300   | 1.200    | -0.100 |
| 25       | 4        | 1.600   | 1.300    | -0.300 |
| 25       | 5        | 1.700   | 1.200    | -0.500 |
| 20       | 6        | 1.600   | 1.200    | -0.400 |
| 20       | 7        | 1.300   | 1.600    | 0.300  |
| 20       | 8        | 1.300   | 1.300    | 0.000  |
| 20       | 9        | 1.600   | 1.300    | -0.300 |
| 20       | 10       | 1.400   | 1.300    | -0.100 |
| 20       | 11       | 1.200   | 1.300    | 0.100  |
| 20       | 12       | 1.700   | 1.500    | -0.200 |
| 20       | 13       | 1.200   | 1.400    | 0.200  |
| 20       | 14       | 1.400   | 1.300    | -0.100 |
| 20       | 15       | 1.400   | 1.600    | 0.200  |
| 20       | 16       | 1.300   | 1.400    | 0.100  |
| 20       | 17       | 1.200   | 1.400    | 0.200  |
| 20       | 18       | 1.400   | 1.200    | -0.200 |
| 20       | 19       | 1.500   | 1.400    | -0.100 |
| 20       | 20       | 1.400   | 1.500    | 0.100  |
| 20       | 21       | 1.400   | 1.400    | 0.000  |
| 20       | 22       | 1.600   | 1.600    | 0.000  |
| 20       | 23       | 1.400   | 1.200    | -0.200 |
| 20       | 24       | 1.700   | 1.200    | -0.500 |
| 20       | 25       | 1.600   | 1.600    | 0.000  |
| 20       | 26       | 1.200   | 1.300    | 0.100  |
| 20       | 27       | 1.500   | 1.300    | -0.200 |
| 35       | 28       | 1.500   | 1.300    | -0.200 |
| 35       | 29       | 1.200   | 1.600    | 0.400  |
| 35       | 30       | 1.300   | 1.400    | 0.100  |
| 35       | 31       | 1.400   | 1.300    | -0.100 |
| 35       | 32       | 1.400   | 1.300    | -0.100 |
| 30       | 33       | 1.600   | 1.400    | -0.200 |
| 30       | 34       | 1.600   | 1.400    | -0.200 |
| 30       | 35       | 1.400   | 1.500    | 0.100  |
| 30       | 36       | 1.200   | 1.500    | 0.300  |
| 30       | 37       | 1.200   | 1.200    | 0.000  |
| Max      |          | 1.700   | 1.600    | 0.400  |
| Average  |          | 1.424   | 1.365    | -0.059 |
| Min      |          | 1.200   | 1.200    | -0.500 |
| Std Dev  |          | 0.161   | 0.132    | 0.219  |



| 26.3_FB ABSMAX |         |         |         |         |
|----------------|---------|---------|---------|---------|
| Test Site      |         |         |         |         |
| Tester         |         |         |         |         |
| Test Number    |         |         |         |         |
| Max Limit      | 40      | nA      |         |         |
| Min Limit      | -40     | nA      |         |         |
| kRad(Si)       | 20      | 25      | 30      | 35      |
| LL             | -40.000 | -40.000 | -40.000 | -40.000 |
| Min            | 1.200   | 1.200   | 1.200   | 1.300   |
| Average        | 1.377   | 1.260   | 1.400   | 1.380   |
| Max            | 1.600   | 1.400   | 1.500   | 1.600   |
| UL             | 40.000  | 40.000  | 40.000  | 40.000  |

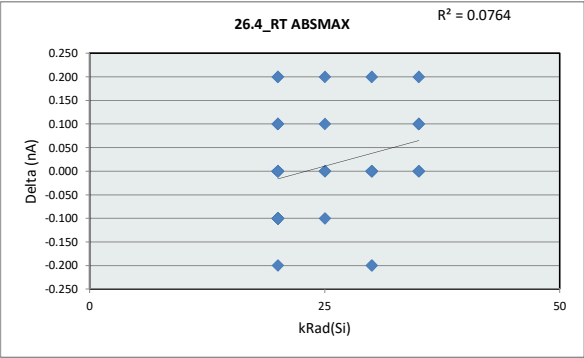


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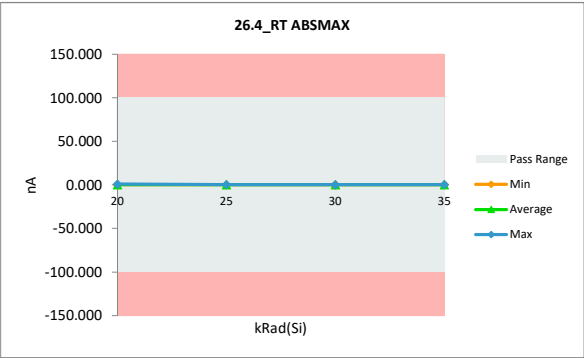
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.4_RT ABSMAX |      |      |
|----------------|------|------|
| Test Site      |      |      |
| Tester         |      |      |
| Test Number    |      |      |
| Unit           | nA   | nA   |
| Max Limit      | 100  | 100  |
| Min Limit      | -100 | -100 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.100   | 0.300    | 0.200  |
| 25       | 2        | 0.200   | 0.100    | -0.100 |
| 25       | 3        | 0.100   | 0.100    | 0.000  |
| 25       | 4        | 0.200   | 0.200    | 0.000  |
| 25       | 5        | 0.100   | 0.200    | 0.100  |
| 20       | 6        | 0.100   | 0.200    | 0.100  |
| 20       | 7        | 0.300   | 0.200    | -0.100 |
| 20       | 8        | 0.200   | 0.100    | -0.100 |
| 20       | 9        | 0.200   | 0.200    | 0.000  |
| 20       | 10       | 0.100   | 0.100    | 0.000  |
| 20       | 11       | 0.300   | 0.200    | -0.100 |
| 20       | 12       | 0.600   | 0.800    | 0.200  |
| 20       | 13       | 0.100   | 0.200    | 0.100  |
| 20       | 14       | 0.200   | 0.100    | -0.100 |
| 20       | 15       | 0.100   | 0.100    | 0.000  |
| 20       | 16       | 0.100   | 0.100    | 0.000  |
| 20       | 17       | 0.200   | 0.100    | -0.100 |
| 20       | 18       | 0.300   | 0.300    | 0.000  |
| 20       | 19       | 0.300   | 0.200    | -0.100 |
| 20       | 20       | 0.200   | 0.100    | -0.100 |
| 20       | 21       | 0.200   | 0.400    | 0.200  |
| 20       | 22       | 0.100   | 0.200    | 0.100  |
| 20       | 23       | 0.200   | 0.200    | 0.000  |
| 20       | 24       | 0.300   | 0.200    | -0.100 |
| 20       | 25       | 0.100   | 0.000    | -0.100 |
| 20       | 26       | 0.200   | 0.000    | -0.200 |
| 20       | 27       | 0.200   | 0.200    | 0.000  |
| 35       | 28       | 0.100   | 0.100    | 0.000  |
| 35       | 29       | 0.100   | 0.200    | 0.100  |
| 35       | 30       | 0.100   | 0.100    | 0.000  |
| 35       | 31       | 0.000   | 0.200    | 0.200  |
| 35       | 32       | 0.200   | 0.300    | 0.100  |
| 30       | 33       | 0.000   | 0.200    | 0.200  |
| 30       | 34       | 0.400   | 0.200    | -0.200 |
| 30       | 35       | 0.200   | 0.200    | 0.000  |
| 30       | 36       | 0.100   | 0.100    | 0.000  |
| 30       | 37       | 0.200   | 0.200    | 0.000  |
| Max      |          | 0.600   | 0.800    | 0.200  |
| Average  |          | 0.181   | 0.186    | 0.005  |
| Min      |          | 0.000   | 0.000    | -0.200 |
| Std Dev  |          | 0.113   | 0.132    | 0.110  |



| 26.4_RT ABSMAX |          |          |          |          |
|----------------|----------|----------|----------|----------|
| Test Site      |          |          |          |          |
| Tester         |          |          |          |          |
| Test Number    |          |          |          |          |
| Max Limit      | 100      | nA       |          |          |
| Min Limit      | -100     | nA       |          |          |
| kRad(Si)       | 20       | 25       | 30       | 35       |
| LL             | -100.000 | -100.000 | -100.000 | -100.000 |
| Min            | 0.100    | 0.100    | 0.100    | 0.100    |
| Average        | 0.191    | 0.180    | 0.180    | 0.180    |
| Max            | 0.800    | 0.300    | 0.200    | 0.300    |
| UL             | 100.000  | 100.000  | 100.000  | 100.000  |



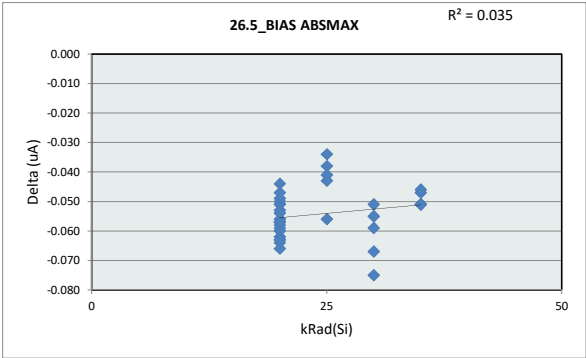


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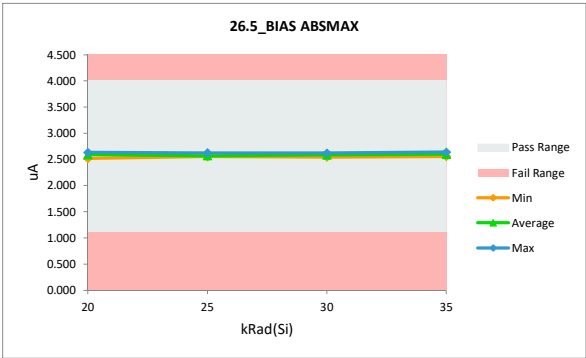
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.5_BIAS ABSMAX |     |     |
|------------------|-----|-----|
| Test Site        |     |     |
| Tester           |     |     |
| Test Number      |     |     |
| Unit             | uA  | uA  |
| Max Limit        | 4   | 4   |
| Min Limit        | 1.1 | 1.1 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 2.589   | 2.555    | -0.034 |
| 25       | 2        | 2.608   | 2.570    | -0.038 |
| 25       | 3        | 2.665   | 2.624    | -0.041 |
| 25       | 4        | 2.596   | 2.553    | -0.043 |
| 25       | 5        | 2.610   | 2.554    | -0.056 |
| 20       | 6        | 2.627   | 2.576    | -0.051 |
| 20       | 7        | 2.624   | 2.564    | -0.060 |
| 20       | 8        | 2.621   | 2.559    | -0.062 |
| 20       | 9        | 2.645   | 2.592    | -0.053 |
| 20       | 10       | 2.675   | 2.611    | -0.064 |
| 20       | 11       | 2.681   | 2.618    | -0.063 |
| 20       | 12       | 2.579   | 2.519    | -0.060 |
| 20       | 13       | 2.669   | 2.613    | -0.056 |
| 20       | 14       | 2.678   | 2.621    | -0.057 |
| 20       | 15       | 2.628   | 2.577    | -0.051 |
| 20       | 16       | 2.676   | 2.618    | -0.058 |
| 20       | 17       | 2.687   | 2.624    | -0.063 |
| 20       | 18       | 2.598   | 2.548    | -0.050 |
| 20       | 19       | 2.612   | 2.555    | -0.057 |
| 20       | 20       | 2.635   | 2.569    | -0.066 |
| 20       | 21       | 2.626   | 2.563    | -0.063 |
| 20       | 22       | 2.668   | 2.624    | -0.044 |
| 20       | 23       | 2.684   | 2.625    | -0.059 |
| 20       | 24       | 2.663   | 2.606    | -0.057 |
| 20       | 25       | 2.676   | 2.622    | -0.054 |
| 20       | 26       | 2.680   | 2.633    | -0.047 |
| 20       | 27       | 2.601   | 2.552    | -0.049 |
| 35       | 28       | 2.623   | 2.572    | -0.051 |
| 35       | 29       | 2.692   | 2.641    | -0.051 |
| 35       | 30       | 2.664   | 2.613    | -0.051 |
| 35       | 31       | 2.659   | 2.612    | -0.047 |
| 35       | 32       | 2.601   | 2.555    | -0.046 |
| 30       | 33       | 2.618   | 2.543    | -0.075 |
| 30       | 34       | 2.638   | 2.571    | -0.067 |
| 30       | 35       | 2.675   | 2.616    | -0.059 |
| 30       | 36       | 2.674   | 2.623    | -0.051 |
| 30       | 37       | 2.627   | 2.572    | -0.055 |
| Max      |          | 2.692   | 2.641    | -0.034 |
| Average  |          | 2.642   | 2.588    | -0.054 |
| Min      |          | 2.579   | 2.519    | -0.075 |
| Std Dev  |          | 0.033   | 0.032    | 0.009  |



| 26.5_BIAS ABSMAX |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        | 4     | uA    |       |       |
| Min Limit        | 1.1   | uA    |       |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 1.100 | 1.100 | 1.100 | 1.100 |
| Min              | 2.519 | 2.553 | 2.543 | 2.555 |
| Average          | 2.590 | 2.571 | 2.585 | 2.599 |
| Max              | 2.633 | 2.624 | 2.623 | 2.641 |
| UL               | 4.000 | 4.000 | 4.000 | 4.000 |

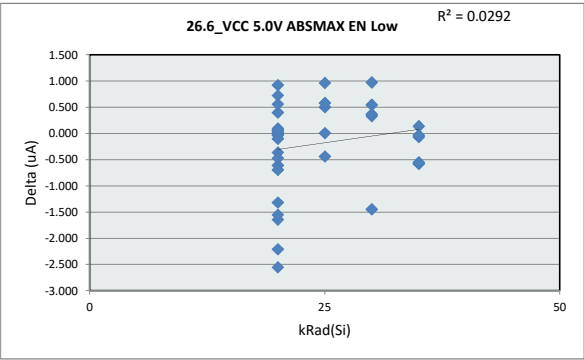


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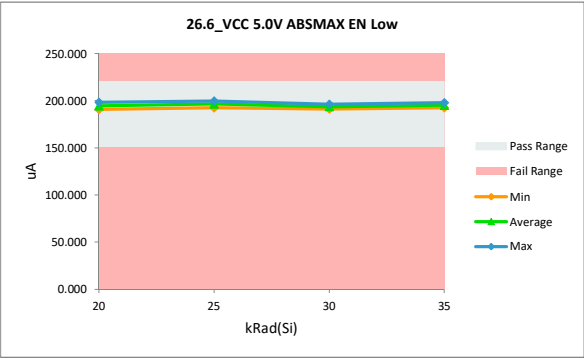
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.6_VCC 5.0V ABSMAX EN Low |     |     |
|-----------------------------|-----|-----|
| Test Site                   |     |     |
| Tester                      |     |     |
| Test Number                 |     |     |
| Unit                        | uA  | uA  |
| Max Limit                   | 220 | 220 |
| Min Limit                   | 150 | 150 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 195.166 | 194.726  | -0.440 |
| 25       | 2        | 196.447 | 196.451  | 0.004  |
| 25       | 3        | 198.643 | 199.606  | 0.963  |
| 25       | 4        | 198.579 | 199.077  | 0.498  |
| 25       | 5        | 191.813 | 192.392  | 0.579  |
| 20       | 6        | 192.659 | 192.553  | -0.106 |
| 20       | 7        | 191.377 | 191.429  | 0.052  |
| 20       | 8        | 195.922 | 195.913  | -0.009 |
| 20       | 9        | 191.316 | 191.410  | 0.094  |
| 20       | 10       | 195.096 | 195.148  | 0.052  |
| 20       | 11       | 198.665 | 198.300  | -0.365 |
| 20       | 12       | 191.236 | 190.627  | -0.609 |
| 20       | 13       | 196.363 | 193.808  | -2.555 |
| 20       | 14       | 196.931 | 196.915  | -0.016 |
| 20       | 15       | 190.859 | 190.819  | -0.040 |
| 20       | 16       | 195.579 | 195.977  | 0.398  |
| 20       | 17       | 197.348 | 198.070  | 0.722  |
| 20       | 18       | 196.671 | 197.593  | 0.922  |
| 20       | 19       | 192.429 | 192.449  | 0.020  |
| 20       | 20       | 196.111 | 194.792  | -1.319 |
| 20       | 21       | 192.651 | 191.004  | -1.647 |
| 20       | 22       | 195.964 | 195.491  | -0.473 |
| 20       | 23       | 192.611 | 193.170  | 0.559  |
| 20       | 24       | 198.252 | 196.043  | -2.209 |
| 20       | 25       | 193.935 | 193.988  | 0.053  |
| 20       | 26       | 196.885 | 195.331  | -1.554 |
| 20       | 27       | 194.994 | 194.297  | -0.697 |
| 35       | 28       | 192.515 | 192.446  | -0.069 |
| 35       | 29       | 194.897 | 194.316  | -0.581 |
| 35       | 30       | 193.627 | 193.592  | -0.035 |
| 35       | 31       | 198.441 | 197.885  | -0.556 |
| 35       | 32       | 196.715 | 196.851  | 0.136  |
| 30       | 33       | 195.836 | 196.169  | 0.333  |
| 30       | 34       | 192.994 | 193.967  | 0.973  |
| 30       | 35       | 192.486 | 191.036  | -1.450 |
| 30       | 36       | 194.725 | 195.090  | 0.365  |
| 30       | 37       | 191.192 | 191.737  | 0.545  |
| Max      |          | 198.665 | 199.606  | 0.973  |
| Average  |          | 194.809 | 194.607  | -0.202 |
| Min      |          | 190.859 | 190.627  | -2.555 |
| Std Dev  |          | 2.431   | 2.481    | 0.847  |



| 26.6_VCC 5.0V ABSMAX EN Low |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|
| Test Site                   |         |         |         |         |
| Tester                      |         |         |         |         |
| Test Number                 |         |         |         |         |
| Max Limit                   | 220     | uA      |         |         |
| Min Limit                   | 150     | uA      |         |         |
| kRad(Si)                    | 20      | 25      | 30      | 35      |
| LL                          | 150.000 | 150.000 | 150.000 | 150.000 |
| Min                         | 190.627 | 192.392 | 191.036 | 192.446 |
| Average                     | 194.324 | 196.450 | 193.600 | 195.018 |
| Max                         | 198.300 | 199.606 | 196.169 | 197.885 |
| UL                          | 220.000 | 220.000 | 220.000 | 220.000 |

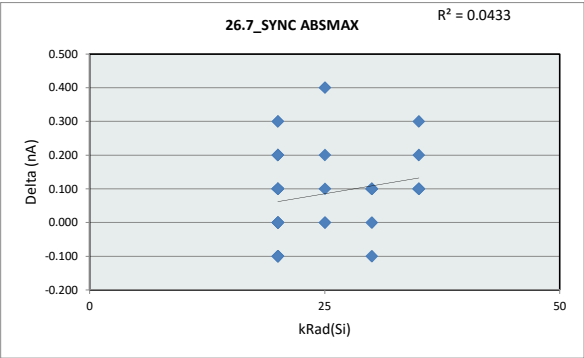


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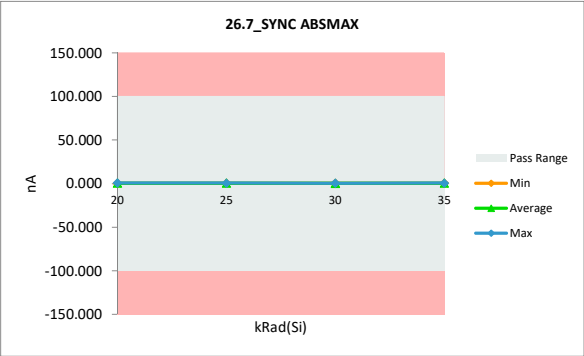
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.7_SYNC ABSMAX |      |      |
|------------------|------|------|
| Test Site        |      |      |
| Tester           |      |      |
| Test Number      |      |      |
| Unit             | nA   | nA   |
| Max Limit        | 100  | 100  |
| Min Limit        | -100 | -100 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.300   | 0.700    | 0.400  |
| 25       | 2        | 0.300   | 0.500    | 0.200  |
| 25       | 3        | 0.500   | 0.500    | 0.000  |
| 25       | 4        | 0.600   | 0.600    | 0.000  |
| 25       | 5        | 0.400   | 0.500    | 0.100  |
| 20       | 6        | 0.400   | 0.700    | 0.300  |
| 20       | 7        | 0.500   | 0.800    | 0.300  |
| 20       | 8        | 0.500   | 0.600    | 0.100  |
| 20       | 9        | 0.500   | 0.500    | 0.000  |
| 20       | 10       | 0.500   | 0.600    | 0.100  |
| 20       | 11       | 0.500   | 0.500    | 0.000  |
| 20       | 12       | 0.900   | 0.900    | 0.000  |
| 20       | 13       | 0.400   | 0.400    | 0.000  |
| 20       | 14       | 0.400   | 0.500    | 0.100  |
| 20       | 15       | 0.500   | 0.500    | 0.000  |
| 20       | 16       | 0.500   | 0.400    | -0.100 |
| 20       | 17       | 0.300   | 0.500    | 0.200  |
| 20       | 18       | 0.600   | 0.500    | -0.100 |
| 20       | 19       | 0.500   | 0.400    | -0.100 |
| 20       | 20       | 0.400   | 0.300    | -0.100 |
| 20       | 21       | 0.500   | 0.600    | 0.100  |
| 20       | 22       | 0.500   | 0.500    | 0.000  |
| 20       | 23       | 0.400   | 0.600    | 0.200  |
| 20       | 24       | 0.400   | 0.600    | 0.200  |
| 20       | 25       | 0.400   | 0.500    | 0.100  |
| 20       | 26       | 0.500   | 0.400    | -0.100 |
| 20       | 27       | 0.700   | 0.800    | 0.100  |
| 35       | 28       | 0.200   | 0.500    | 0.300  |
| 35       | 29       | 0.500   | 0.600    | 0.100  |
| 35       | 30       | 0.400   | 0.600    | 0.200  |
| 35       | 31       | 0.500   | 0.600    | 0.100  |
| 35       | 32       | 0.600   | 0.700    | 0.100  |
| 30       | 33       | 0.500   | 0.500    | 0.000  |
| 30       | 34       | 0.500   | 0.400    | -0.100 |
| 30       | 35       | 0.400   | 0.500    | 0.100  |
| 30       | 36       | 0.500   | 0.600    | 0.100  |
| 30       | 37       | 0.300   | 0.400    | 0.100  |
| Max      |          | 0.900   | 0.900    | 0.400  |
| Average  |          | 0.468   | 0.549    | 0.081  |
| Min      |          | 0.200   | 0.300    | -0.100 |
| Std Dev  |          | 0.123   | 0.126    | 0.127  |



| 26.7_SYNC ABSMAX |          |          |          |          |
|------------------|----------|----------|----------|----------|
| Test Site        |          |          |          |          |
| Tester           |          |          |          |          |
| Test Number      |          |          |          |          |
| Max Limit        | 100      | nA       |          |          |
| Min Limit        | -100     | nA       |          |          |
| kRad(Si)         | 20       | 25       | 30       | 35       |
| LL               | -100.000 | -100.000 | -100.000 | -100.000 |
| Min              | 0.300    | 0.500    | 0.400    | 0.500    |
| Average          | 0.550    | 0.560    | 0.480    | 0.600    |
| Max              | 0.900    | 0.700    | 0.600    | 0.700    |
| UL               | 100.000  | 100.000  | 100.000  | 100.000  |

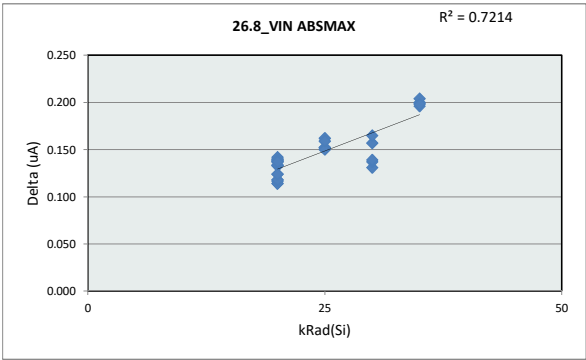


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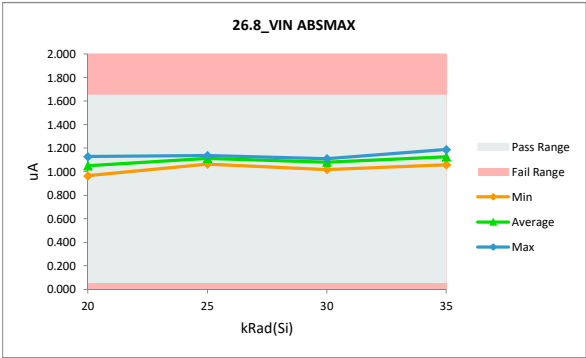
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.8_VIN ABSMAX |      |      |
|-----------------|------|------|
| Test Site       |      |      |
| Tester          |      |      |
| Test Number     |      |      |
| Unit            | uA   | uA   |
| Max Limit       | 1.65 | 1.65 |
| Min Limit       | 0.05 | 0.05 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta |
|----------|----------|---------|----------|-------|
| 25       | 1        | 0.985   | 1.137    | 0.152 |
| 25       | 2        | 0.953   | 1.115    | 0.162 |
| 25       | 3        | 0.913   | 1.065    | 0.152 |
| 25       | 4        | 0.982   | 1.132    | 0.150 |
| 25       | 5        | 0.953   | 1.112    | 0.159 |
| 20       | 6        | 0.948   | 1.062    | 0.114 |
| 20       | 7        | 0.874   | 1.007    | 0.133 |
| 20       | 8        | 0.967   | 1.083    | 0.116 |
| 20       | 9        | 0.908   | 1.048    | 0.140 |
| 20       | 10       | 0.922   | 1.060    | 0.138 |
| 20       | 11       | 0.934   | 1.072    | 0.138 |
| 20       | 12       | 0.841   | 0.965    | 0.124 |
| 20       | 13       | 0.920   | 1.060    | 0.140 |
| 20       | 14       | 0.868   | 1.007    | 0.139 |
| 20       | 15       | 0.973   | 1.091    | 0.118 |
| 20       | 16       | 0.903   | 1.036    | 0.133 |
| 20       | 17       | 0.934   | 1.071    | 0.137 |
| 20       | 18       | 0.969   | 1.083    | 0.114 |
| 20       | 19       | 0.954   | 1.071    | 0.117 |
| 20       | 20       | 0.961   | 1.079    | 0.118 |
| 20       | 21       | 0.917   | 1.050    | 0.133 |
| 20       | 22       | 0.933   | 1.075    | 0.142 |
| 20       | 23       | 0.853   | 0.992    | 0.139 |
| 20       | 24       | 0.892   | 1.026    | 0.134 |
| 20       | 25       | 0.917   | 1.054    | 0.137 |
| 20       | 26       | 0.875   | 1.012    | 0.137 |
| 20       | 27       | 1.004   | 1.128    | 0.124 |
| 35       | 28       | 0.958   | 1.158    | 0.200 |
| 35       | 29       | 0.909   | 1.108    | 0.199 |
| 35       | 30       | 0.855   | 1.059    | 0.204 |
| 35       | 31       | 0.921   | 1.117    | 0.196 |
| 35       | 32       | 0.990   | 1.188    | 0.198 |
| 30       | 33       | 0.957   | 1.088    | 0.131 |
| 30       | 34       | 0.953   | 1.090    | 0.137 |
| 30       | 35       | 0.862   | 1.019    | 0.157 |
| 30       | 36       | 0.946   | 1.111    | 0.165 |
| 30       | 37       | 0.961   | 1.100    | 0.139 |
| Max      |          | 1.004   | 1.188    | 0.204 |
| Average  |          | 0.929   | 1.074    | 0.145 |
| Min      |          | 0.841   | 0.965    | 0.114 |
| Std Dev  |          | 0.042   | 0.047    | 0.025 |



| 26.8_VIN ABSMAX |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| Test Site       |       |       |       |       |
| Tester          |       |       |       |       |
| Test Number     |       |       |       |       |
| Max Limit       | 1.65  | uA    |       |       |
| Min Limit       | 0.05  | uA    |       |       |
| kRad(Si)        | 20    | 25    | 30    | 35    |
| LL              | 0.050 | 0.050 | 0.050 | 0.050 |
| Min             | 0.965 | 1.065 | 1.019 | 1.059 |
| Average         | 1.051 | 1.112 | 1.082 | 1.126 |
| Max             | 1.128 | 1.137 | 1.111 | 1.188 |
| UL              | 1.650 | 1.650 | 1.650 | 1.650 |

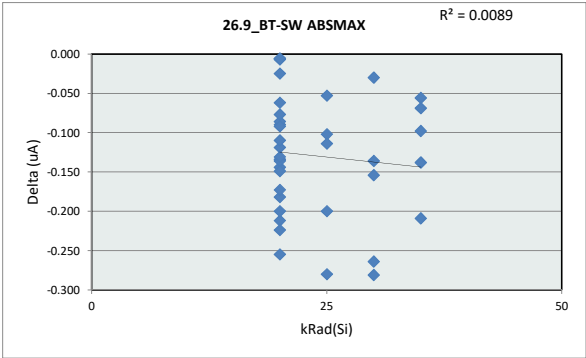


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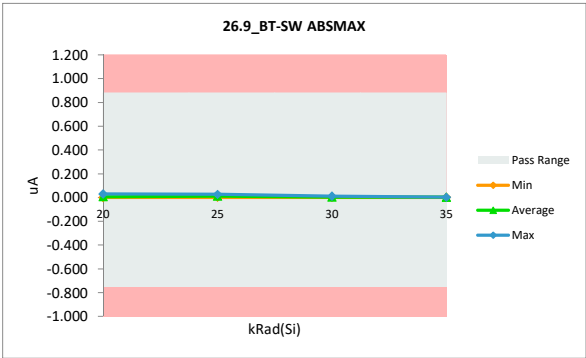
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.9_BT-SW ABSMAX |       |       |
|-------------------|-------|-------|
| Test Site         |       |       |
| Tester            |       |       |
| Test Number       |       |       |
| Unit              | uA    | uA    |
| Max Limit         | 0.88  | 0.88  |
| Min Limit         | -0.75 | -0.75 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.107   | 0.005    | -0.102 |
| 25       | 2        | 0.299   | 0.019    | -0.280 |
| 25       | 3        | 0.119   | 0.005    | -0.114 |
| 25       | 4        | 0.055   | 0.002    | -0.053 |
| 25       | 5        | 0.227   | 0.027    | -0.200 |
| 20       | 6        | 0.217   | 0.005    | -0.212 |
| 20       | 7        | 0.009   | 0.002    | -0.007 |
| 20       | 8        | 0.272   | 0.017    | -0.255 |
| 20       | 9        | 0.027   | 0.002    | -0.025 |
| 20       | 10       | 0.121   | 0.002    | -0.119 |
| 20       | 11       | 0.153   | 0.009    | -0.144 |
| 20       | 12       | 0.007   | 0.001    | -0.006 |
| 20       | 13       | 0.136   | 0.002    | -0.134 |
| 20       | 14       | 0.139   | 0.003    | -0.136 |
| 20       | 15       | 0.140   | 0.009    | -0.131 |
| 20       | 16       | 0.091   | 0.001    | -0.090 |
| 20       | 17       | 0.119   | 0.009    | -0.110 |
| 20       | 18       | 0.199   | 0.017    | -0.182 |
| 20       | 19       | 0.200   | 0.027    | -0.173 |
| 20       | 20       | 0.214   | 0.014    | -0.200 |
| 20       | 21       | 0.008   | 0.002    | -0.006 |
| 20       | 22       | 0.088   | 0.002    | -0.086 |
| 20       | 23       | 0.094   | 0.002    | -0.092 |
| 20       | 24       | 0.153   | 0.004    | -0.149 |
| 20       | 25       | 0.079   | 0.002    | -0.077 |
| 20       | 26       | 0.063   | 0.001    | -0.062 |
| 20       | 27       | 0.254   | 0.030    | -0.224 |
| 35       | 28       | 0.100   | 0.002    | -0.098 |
| 35       | 29       | 0.212   | 0.003    | -0.209 |
| 35       | 30       | 0.058   | 0.002    | -0.056 |
| 35       | 31       | 0.141   | 0.003    | -0.138 |
| 35       | 32       | 0.071   | 0.002    | -0.069 |
| 30       | 33       | 0.293   | 0.012    | -0.281 |
| 30       | 34       | 0.138   | 0.002    | -0.136 |
| 30       | 35       | 0.032   | 0.002    | -0.030 |
| 30       | 36       | 0.156   | 0.002    | -0.154 |
| 30       | 37       | 0.266   | 0.002    | -0.264 |
| Max      |          | 0.299   | 0.030    | -0.006 |
| Average  |          | 0.137   | 0.007    | -0.130 |
| Min      |          | 0.007   | 0.001    | -0.281 |
| Std Dev  |          | 0.082   | 0.008    | 0.077  |



| 26.9_BT-SW ABSMAX |        |        |        |        |
|-------------------|--------|--------|--------|--------|
| Test Site         |        |        |        |        |
| Tester            |        |        |        |        |
| Test Number       |        |        |        |        |
| Max Limit         | 0.88   | uA     |        |        |
| Min Limit         | -0.75  | uA     |        |        |
| kRad(Si)          | 20     | 25     | 30     | 35     |
| LL                | -0.750 | -0.750 | -0.750 | -0.750 |
| Min               | 0.001  | 0.002  | 0.002  | 0.002  |
| Average           | 0.007  | 0.012  | 0.004  | 0.002  |
| Max               | 0.030  | 0.027  | 0.012  | 0.003  |
| UL                | 0.880  | 0.880  | 0.880  | 0.880  |



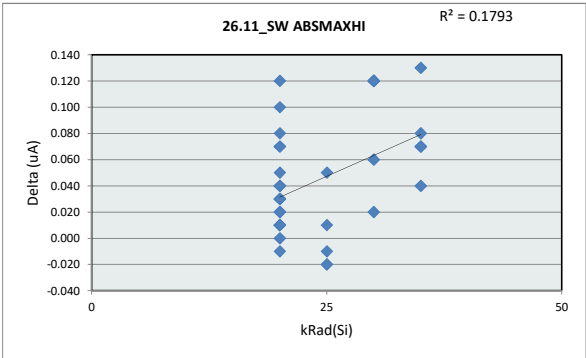
# LDR TID Report

## TPS7H4010-SEP

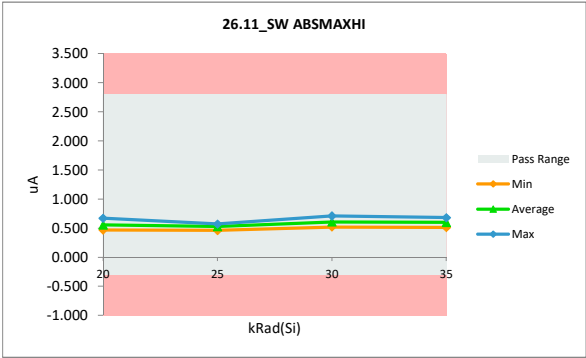
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.11_SW ABSMAXHI |      |      |
|-------------------|------|------|
| Test Site         |      |      |
| Tester            |      |      |
| Test Number       |      |      |
| Unit              | uA   | uA   |
| Max Limit         | 2.8  | 2.8  |
| Min Limit         | -0.3 | -0.3 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.530   | 0.540    | 0.010  |
| 25       | 2        | 0.480   | 0.460    | -0.020 |
| 25       | 3        | 0.510   | 0.500    | -0.010 |
| 25       | 4        | 0.590   | 0.570    | -0.020 |
| 25       | 5        | 0.520   | 0.570    | 0.050  |
| 20       | 6        | 0.440   | 0.470    | 0.030  |
| 20       | 7        | 0.490   | 0.500    | 0.010  |
| 20       | 8        | 0.510   | 0.530    | 0.020  |
| 20       | 9        | 0.540   | 0.550    | 0.010  |
| 20       | 10       | 0.540   | 0.610    | 0.070  |
| 20       | 11       | 0.470   | 0.470    | 0.000  |
| 20       | 12       | 0.540   | 0.530    | -0.010 |
| 20       | 13       | 0.520   | 0.620    | 0.100  |
| 20       | 14       | 0.470   | 0.510    | 0.040  |
| 20       | 15       | 0.540   | 0.590    | 0.050  |
| 20       | 16       | 0.540   | 0.610    | 0.070  |
| 20       | 17       | 0.500   | 0.530    | 0.030  |
| 20       | 18       | 0.600   | 0.610    | 0.010  |
| 20       | 19       | 0.500   | 0.540    | 0.040  |
| 20       | 20       | 0.570   | 0.590    | 0.020  |
| 20       | 21       | 0.480   | 0.490    | 0.010  |
| 20       | 22       | 0.540   | 0.550    | 0.010  |
| 20       | 23       | 0.490   | 0.510    | 0.020  |
| 20       | 24       | 0.590   | 0.670    | 0.080  |
| 20       | 25       | 0.510   | 0.630    | 0.120  |
| 20       | 26       | 0.510   | 0.540    | 0.030  |
| 20       | 27       | 0.530   | 0.570    | 0.040  |
| 35       | 28       | 0.530   | 0.600    | 0.070  |
| 35       | 29       | 0.470   | 0.510    | 0.040  |
| 35       | 30       | 0.460   | 0.540    | 0.080  |
| 35       | 31       | 0.550   | 0.680    | 0.130  |
| 35       | 32       | 0.610   | 0.680    | 0.070  |
| 30       | 33       | 0.540   | 0.560    | 0.020  |
| 30       | 34       | 0.460   | 0.520    | 0.060  |
| 30       | 35       | 0.480   | 0.600    | 0.120  |
| 30       | 36       | 0.590   | 0.710    | 0.120  |
| 30       | 37       | 0.520   | 0.640    | 0.120  |
|          | Max      | 0.610   | 0.710    | 0.130  |
|          | Average  | 0.521   | 0.565    | 0.044  |
|          | Min      | 0.440   | 0.460    | -0.020 |
|          | Std Dev  | 0.042   | 0.063    | 0.043  |



| 26.11_SW ABSMAXHI |        |        |        |        |
|-------------------|--------|--------|--------|--------|
| Test Site         |        |        |        |        |
| Tester            |        |        |        |        |
| Test Number       |        |        |        |        |
| Max Limit         | 2.8    | uA     |        |        |
| Min Limit         | -0.3   | uA     |        |        |
| kRad(Si)          | 20     | 25     | 30     | 35     |
| LL                | -0.300 | -0.300 | -0.300 | -0.300 |
| Min               | 0.470  | 0.460  | 0.520  | 0.510  |
| Average           | 0.555  | 0.528  | 0.606  | 0.602  |
| Max               | 0.670  | 0.570  | 0.710  | 0.680  |
| UL                | 2.800  | 2.800  | 2.800  | 2.800  |



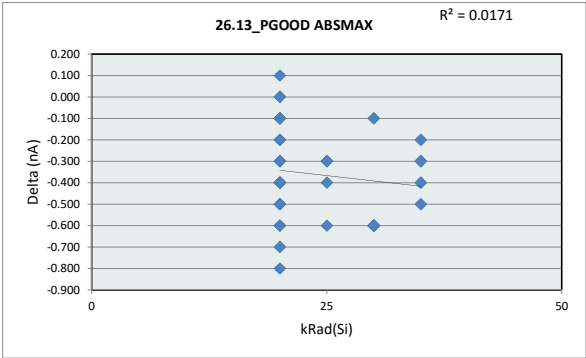
# LDR TID Report

## TPS7H4010-SEP

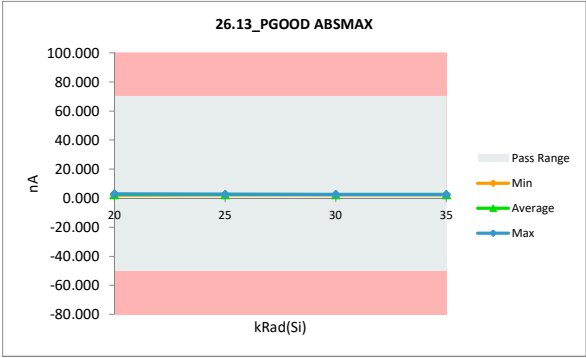
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.13_PGOOD ABSMAX |     |     |
|--------------------|-----|-----|
| Test Site          |     |     |
| Tester             |     |     |
| Test Number        |     |     |
| Unit               | nA  | nA  |
| Max Limit          | 70  | 70  |
| Min Limit          | -50 | -50 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 3.000   | 2.700    | -0.300 |
| 25       | 2        | 3.000   | 2.700    | -0.300 |
| 25       | 3        | 3.000   | 2.400    | -0.600 |
| 25       | 4        | 2.900   | 2.600    | -0.300 |
| 25       | 5        | 2.800   | 2.400    | -0.400 |
| 20       | 6        | 2.800   | 2.500    | -0.300 |
| 20       | 7        | 2.700   | 2.600    | -0.100 |
| 20       | 8        | 2.700   | 2.500    | -0.200 |
| 20       | 9        | 2.700   | 2.600    | -0.100 |
| 20       | 10       | 2.800   | 2.800    | 0.000  |
| 20       | 11       | 2.800   | 2.400    | -0.400 |
| 20       | 12       | 2.700   | 2.600    | -0.100 |
| 20       | 13       | 2.900   | 2.400    | -0.500 |
| 20       | 14       | 2.900   | 2.900    | 0.000  |
| 20       | 15       | 2.800   | 2.400    | -0.400 |
| 20       | 16       | 3.100   | 2.600    | -0.500 |
| 20       | 17       | 2.800   | 2.600    | -0.200 |
| 20       | 18       | 2.700   | 2.400    | -0.300 |
| 20       | 19       | 3.100   | 2.400    | -0.700 |
| 20       | 20       | 3.200   | 2.400    | -0.800 |
| 20       | 21       | 2.800   | 2.500    | -0.300 |
| 20       | 22       | 3.100   | 2.500    | -0.600 |
| 20       | 23       | 2.700   | 2.800    | 0.100  |
| 20       | 24       | 2.800   | 2.400    | -0.400 |
| 20       | 25       | 2.700   | 2.200    | -0.500 |
| 20       | 26       | 2.700   | 2.300    | -0.400 |
| 20       | 27       | 2.900   | 2.300    | -0.600 |
| 35       | 28       | 2.700   | 2.500    | -0.200 |
| 35       | 29       | 3.100   | 2.600    | -0.500 |
| 35       | 30       | 2.900   | 2.600    | -0.300 |
| 35       | 31       | 2.800   | 2.500    | -0.300 |
| 35       | 32       | 2.800   | 2.400    | -0.400 |
| 30       | 33       | 2.700   | 2.600    | -0.100 |
| 30       | 34       | 2.900   | 2.300    | -0.600 |
| 30       | 35       | 3.000   | 2.400    | -0.600 |
| 30       | 36       | 3.000   | 2.400    | -0.600 |
| 30       | 37       | 3.200   | 2.600    | -0.600 |
| Max      |          | 3.200   | 2.900    | 0.100  |
| Average  |          | 2.870   | 2.508    | -0.362 |
| Min      |          | 2.700   | 2.200    | -0.800 |
| Std Dev  |          | 0.154   | 0.153    | 0.214  |



| 26.13_PGOOD ABSMAX |         |         |         |         |
|--------------------|---------|---------|---------|---------|
| Test Site          |         |         |         |         |
| Tester             |         |         |         |         |
| Test Number        |         |         |         |         |
| Max Limit          | 70      | nA      |         |         |
| Min Limit          | -50     | nA      |         |         |
| kRad(Si)           | 20      | 25      | 30      | 35      |
| LL                 | -50.000 | -50.000 | -50.000 | -50.000 |
| Min                | 2.200   | 2.400   | 2.300   | 2.400   |
| Average            | 2.505   | 2.560   | 2.460   | 2.520   |
| Max                | 2.900   | 2.700   | 2.600   | 2.600   |
| UL                 | 70.000  | 70.000  | 70.000  | 70.000  |

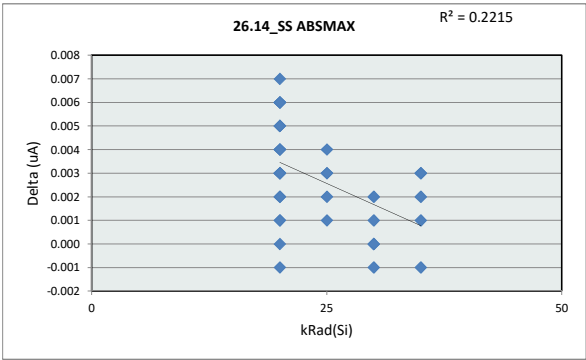


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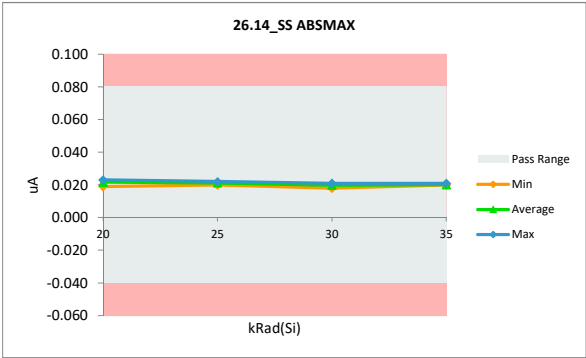
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.14_SS ABSMAX |       |       |
|-----------------|-------|-------|
| Test Site       |       |       |
| Tester          |       |       |
| Test Number     |       |       |
| Unit            | uA    | uA    |
| Max Limit       | 0.08  | 0.08  |
| Min Limit       | -0.04 | -0.04 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.019   | 0.022    | 0.003  |
| 25       | 2        | 0.017   | 0.020    | 0.003  |
| 25       | 3        | 0.018   | 0.022    | 0.004  |
| 25       | 4        | 0.021   | 0.022    | 0.001  |
| 25       | 5        | 0.018   | 0.020    | 0.002  |
| 20       | 6        | 0.016   | 0.022    | 0.006  |
| 20       | 7        | 0.018   | 0.019    | 0.001  |
| 20       | 8        | 0.018   | 0.020    | 0.002  |
| 20       | 9        | 0.020   | 0.019    | -0.001 |
| 20       | 10       | 0.018   | 0.022    | 0.004  |
| 20       | 11       | 0.019   | 0.022    | 0.003  |
| 20       | 12       | 0.019   | 0.021    | 0.002  |
| 20       | 13       | 0.017   | 0.023    | 0.006  |
| 20       | 14       | 0.018   | 0.021    | 0.003  |
| 20       | 15       | 0.016   | 0.023    | 0.007  |
| 20       | 16       | 0.017   | 0.023    | 0.006  |
| 20       | 17       | 0.021   | 0.022    | 0.001  |
| 20       | 18       | 0.020   | 0.023    | 0.003  |
| 20       | 19       | 0.017   | 0.021    | 0.004  |
| 20       | 20       | 0.017   | 0.022    | 0.005  |
| 20       | 21       | 0.017   | 0.021    | 0.004  |
| 20       | 22       | 0.021   | 0.021    | 0.000  |
| 20       | 23       | 0.019   | 0.022    | 0.003  |
| 20       | 24       | 0.018   | 0.021    | 0.003  |
| 20       | 25       | 0.017   | 0.023    | 0.006  |
| 20       | 26       | 0.018   | 0.023    | 0.005  |
| 20       | 27       | 0.018   | 0.023    | 0.005  |
| 35       | 28       | 0.017   | 0.020    | 0.003  |
| 35       | 29       | 0.017   | 0.020    | 0.003  |
| 35       | 30       | 0.018   | 0.020    | 0.002  |
| 35       | 31       | 0.021   | 0.020    | -0.001 |
| 35       | 32       | 0.020   | 0.021    | 0.001  |
| 30       | 33       | 0.021   | 0.020    | -0.001 |
| 30       | 34       | 0.018   | 0.018    | 0.000  |
| 30       | 35       | 0.020   | 0.020    | 0.000  |
| 30       | 36       | 0.020   | 0.021    | 0.001  |
| 30       | 37       | 0.018   | 0.020    | 0.002  |
| Max      |          | 0.021   | 0.023    | 0.007  |
| Average  |          | 0.018   | 0.021    | 0.003  |
| Min      |          | 0.016   | 0.018    | -0.001 |
| Std Dev  |          | 0.001   | 0.001    | 0.002  |



| 26.14_SS ABSMAX |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Test Site       |        |        |        |        |
| Tester          |        |        |        |        |
| Test Number     |        |        |        |        |
| Max Limit       | 0.08   | uA     |        |        |
| Min Limit       | -0.04  | uA     |        |        |
| kRad(Si)        | 20     | 25     | 30     | 35     |
| LL              | -0.040 | -0.040 | -0.040 | -0.040 |
| Min             | 0.019  | 0.020  | 0.018  | 0.020  |
| Average         | 0.022  | 0.021  | 0.020  | 0.020  |
| Max             | 0.023  | 0.022  | 0.021  | 0.021  |
| UL              | 0.080  | 0.080  | 0.080  | 0.080  |



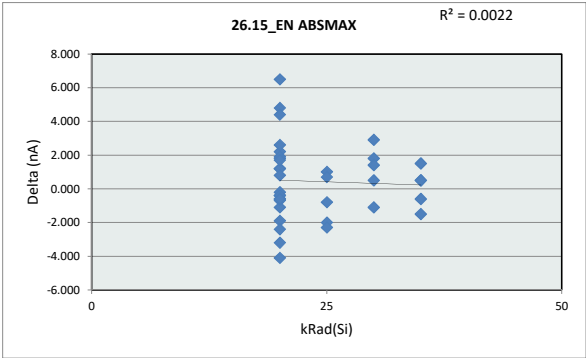


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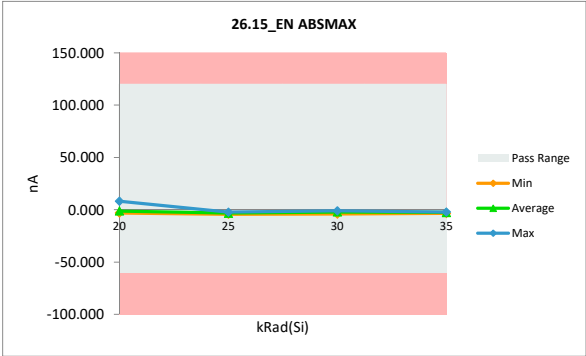
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 26.15_EN ABSMAX |     |     |
|-----------------|-----|-----|
| Test Site       |     |     |
| Tester          |     |     |
| Test Number     |     |     |
| Unit            | nA  | nA  |
| Max Limit       | 120 | 120 |
| Min Limit       | -60 | -60 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | -1.800  | -3.800   | -2.000 |
| 25       | 2        | -3.900  | -2.900   | 1.000  |
| 25       | 3        | -3.800  | -3.100   | 0.700  |
| 25       | 4        | -1.900  | -4.200   | -2.300 |
| 25       | 5        | -1.400  | -2.200   | -0.800 |
| 20       | 6        | -2.400  | -1.200   | 1.200  |
| 20       | 7        | -3.500  | 1.300    | 4.800  |
| 20       | 8        | -1.200  | -1.600   | -0.400 |
| 20       | 9        | -0.500  | -2.400   | -1.900 |
| 20       | 10       | -0.100  | -0.800   | -0.700 |
| 20       | 11       | -2.300  | -1.100   | 1.200  |
| 20       | 12       | 1.800   | 8.300    | 6.500  |
| 20       | 13       | 0.900   | -2.300   | -3.200 |
| 20       | 14       | -3.000  | -2.200   | 0.800  |
| 20       | 15       | 0.000   | -0.200   | -0.200 |
| 20       | 16       | -0.500  | -2.900   | -2.400 |
| 20       | 17       | -1.400  | -2.500   | -1.100 |
| 20       | 18       | -4.700  | -2.900   | 1.800  |
| 20       | 19       | 1.200   | -2.900   | -4.100 |
| 20       | 20       | -1.400  | -1.800   | -0.400 |
| 20       | 21       | -0.700  | -1.300   | -0.600 |
| 20       | 22       | -3.300  | -1.100   | 2.200  |
| 20       | 23       | -3.900  | -2.000   | 1.900  |
| 20       | 24       | -5.800  | -1.400   | 4.400  |
| 20       | 25       | -2.000  | -0.300   | 1.700  |
| 20       | 26       | -2.900  | -0.300   | 2.600  |
| 20       | 27       | -2.400  | -3.000   | -0.600 |
| 35       | 28       | -3.600  | -2.100   | 1.500  |
| 35       | 29       | -1.900  | -2.500   | -0.600 |
| 35       | 30       | -3.000  | -2.500   | 0.500  |
| 35       | 31       | -0.900  | -2.400   | -1.500 |
| 35       | 32       | -4.000  | -3.500   | 0.500  |
| 30       | 33       | -3.500  | -1.700   | 1.800  |
| 30       | 34       | -4.500  | -4.000   | 0.500  |
| 30       | 35       | -3.800  | -0.900   | 2.900  |
| 30       | 36       | -3.200  | -1.800   | 1.400  |
| 30       | 37       | -0.700  | -1.800   | -1.100 |
| Max      |          | 1.800   | 8.300    | 6.500  |
| Average  |          | -2.162  | -1.730   | 0.432  |
| Min      |          | -5.800  | -4.200   | -4.100 |
| Std Dev  |          | 1.746   | 2.044    | 2.196  |



| 26.15_EN ABSMAX |         |         |         |         |
|-----------------|---------|---------|---------|---------|
| Test Site       |         |         |         |         |
| Tester          |         |         |         |         |
| Test Number     |         |         |         |         |
| Max Limit       | 120     | nA      |         |         |
| Min Limit       | -60     | nA      |         |         |
| kRad(Si)        | 20      | 25      | 30      | 35      |
| LL              | -60.000 | -60.000 | -60.000 | -60.000 |
| Min             | -3.000  | -4.200  | -4.000  | -3.500  |
| Average         | -1.118  | -3.240  | -2.040  | -2.600  |
| Max             | 8.300   | -2.200  | -0.900  | -2.100  |
| UL              | 120.000 | 120.000 | 120.000 | 120.000 |

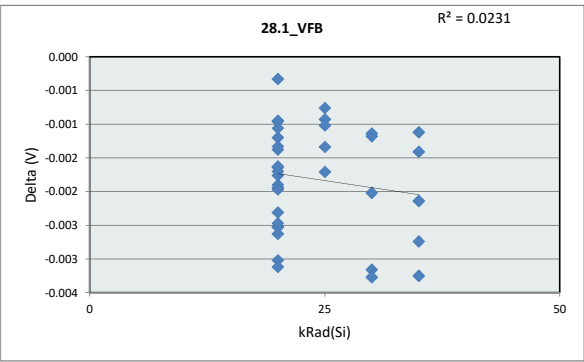


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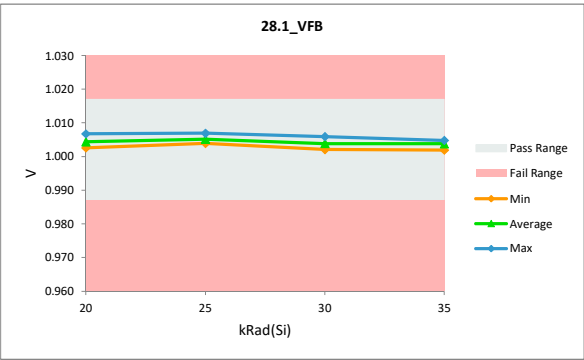
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 28.1_VFB    |       |       |
|-------------|-------|-------|
| Test Site   |       |       |
| Tester      |       |       |
| Test Number |       |       |
| Unit        | V     | V     |
| Max Limit   | 1.017 | 1.017 |
| Min Limit   | 0.987 | 0.987 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.008   | 1.007    | -0.001 |
| 25       | 2        | 1.007   | 1.006    | -0.001 |
| 25       | 3        | 1.006   | 1.004    | -0.002 |
| 25       | 4        | 1.005   | 1.004    | -0.001 |
| 25       | 5        | 1.006   | 1.005    | -0.001 |
| 20       | 6        | 1.007   | 1.005    | -0.002 |
| 20       | 7        | 1.006   | 1.004    | -0.002 |
| 20       | 8        | 1.005   | 1.004    | -0.001 |
| 20       | 9        | 1.006   | 1.005    | -0.001 |
| 20       | 10       | 1.006   | 1.005    | -0.001 |
| 20       | 11       | 1.006   | 1.004    | -0.001 |
| 20       | 12       | 1.006   | 1.004    | -0.002 |
| 20       | 13       | 1.007   | 1.004    | -0.003 |
| 20       | 14       | 1.005   | 1.003    | -0.003 |
| 20       | 15       | 1.007   | 1.007    | 0.000  |
| 20       | 16       | 1.004   | 1.003    | -0.002 |
| 20       | 17       | 1.007   | 1.006    | -0.002 |
| 20       | 18       | 1.006   | 1.003    | -0.002 |
| 20       | 19       | 1.006   | 1.003    | -0.003 |
| 20       | 20       | 1.006   | 1.004    | -0.002 |
| 20       | 21       | 1.007   | 1.004    | -0.003 |
| 20       | 22       | 1.006   | 1.004    | -0.002 |
| 20       | 23       | 1.006   | 1.005    | -0.001 |
| 20       | 24       | 1.007   | 1.005    | -0.002 |
| 20       | 25       | 1.007   | 1.005    | -0.003 |
| 20       | 26       | 1.006   | 1.004    | -0.002 |
| 20       | 27       | 1.007   | 1.006    | -0.001 |
| 35       | 28       | 1.006   | 1.005    | -0.001 |
| 35       | 29       | 1.006   | 1.004    | -0.001 |
| 35       | 30       | 1.005   | 1.002    | -0.003 |
| 35       | 31       | 1.006   | 1.003    | -0.003 |
| 35       | 32       | 1.007   | 1.004    | -0.002 |
| 30       | 33       | 1.008   | 1.004    | -0.003 |
| 30       | 34       | 1.005   | 1.002    | -0.003 |
| 30       | 35       | 1.005   | 1.003    | -0.002 |
| 30       | 36       | 1.005   | 1.003    | -0.001 |
| 30       | 37       | 1.007   | 1.006    | -0.001 |
| Max      |          | 1.008   | 1.007    | 0.000  |
| Average  |          | 1.006   | 1.004    | -0.002 |
| Min      |          | 1.004   | 1.002    | -0.003 |
| Std Dev  |          | 0.001   | 0.001    | 0.001  |



| 28.1_VFB    |       |       |       |       |
|-------------|-------|-------|-------|-------|
| Test Site   |       |       |       |       |
| Tester      |       |       |       |       |
| Test Number |       |       |       |       |
| Max Limit   | 1.017 | V     |       |       |
| Min Limit   | 0.987 | V     |       |       |
| kRad(Si)    | 20    | 25    | 30    | 35    |
| LL          | 0.987 | 0.987 | 0.987 | 0.987 |
| Min         | 1.003 | 1.004 | 1.002 | 1.002 |
| Average     | 1.004 | 1.005 | 1.004 | 1.004 |
| Max         | 1.007 | 1.007 | 1.006 | 1.005 |
| UL          | 1.017 | 1.017 | 1.017 | 1.017 |

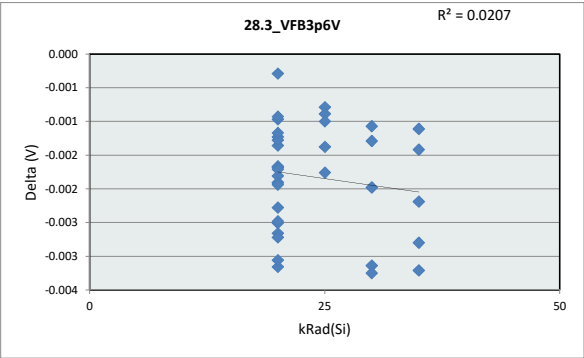


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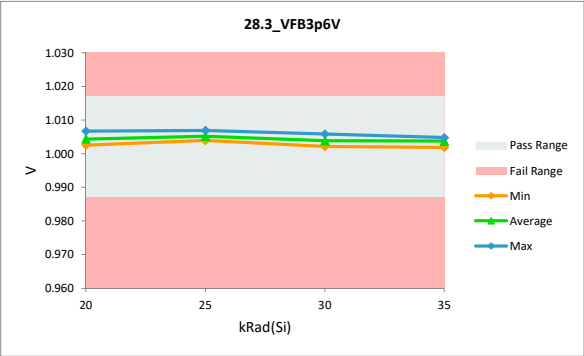
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 28.3_VFB3p6V |       |       |
|--------------|-------|-------|
| Test Site    |       |       |
| Tester       |       |       |
| Test Number  |       |       |
| Unit         | V     | V     |
| Max Limit    | 1.017 | 1.017 |
| Min Limit    | 0.987 | 0.987 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.008   | 1.007    | -0.001 |
| 25       | 2        | 1.007   | 1.006    | -0.001 |
| 25       | 3        | 1.006   | 1.004    | -0.002 |
| 25       | 4        | 1.005   | 1.004    | -0.001 |
| 25       | 5        | 1.006   | 1.005    | -0.001 |
| 20       | 6        | 1.007   | 1.005    | -0.002 |
| 20       | 7        | 1.006   | 1.004    | -0.002 |
| 20       | 8        | 1.005   | 1.004    | -0.001 |
| 20       | 9        | 1.006   | 1.005    | -0.001 |
| 20       | 10       | 1.006   | 1.005    | -0.001 |
| 20       | 11       | 1.006   | 1.004    | -0.001 |
| 20       | 12       | 1.006   | 1.004    | -0.002 |
| 20       | 13       | 1.007   | 1.004    | -0.003 |
| 20       | 14       | 1.005   | 1.003    | -0.003 |
| 20       | 15       | 1.007   | 1.007    | 0.000  |
| 20       | 16       | 1.004   | 1.003    | -0.002 |
| 20       | 17       | 1.007   | 1.006    | -0.002 |
| 20       | 18       | 1.006   | 1.003    | -0.002 |
| 20       | 19       | 1.006   | 1.003    | -0.003 |
| 20       | 20       | 1.006   | 1.004    | -0.002 |
| 20       | 21       | 1.007   | 1.004    | -0.003 |
| 20       | 22       | 1.006   | 1.004    | -0.002 |
| 20       | 23       | 1.006   | 1.005    | -0.001 |
| 20       | 24       | 1.007   | 1.005    | -0.002 |
| 20       | 25       | 1.007   | 1.005    | -0.003 |
| 20       | 26       | 1.006   | 1.004    | -0.002 |
| 20       | 27       | 1.008   | 1.006    | -0.001 |
| 35       | 28       | 1.006   | 1.005    | -0.001 |
| 35       | 29       | 1.006   | 1.004    | -0.001 |
| 35       | 30       | 1.005   | 1.002    | -0.003 |
| 35       | 31       | 1.006   | 1.003    | -0.003 |
| 35       | 32       | 1.007   | 1.004    | -0.002 |
| 30       | 33       | 1.008   | 1.004    | -0.003 |
| 30       | 34       | 1.005   | 1.002    | -0.003 |
| 30       | 35       | 1.005   | 1.004    | -0.002 |
| 30       | 36       | 1.005   | 1.003    | -0.001 |
| 30       | 37       | 1.007   | 1.006    | -0.001 |
| Max      |          | 1.008   | 1.007    | 0.000  |
| Average  |          | 1.006   | 1.004    | -0.002 |
| Min      |          | 1.004   | 1.002    | -0.003 |
| Std Dev  |          | 0.001   | 0.001    | 0.001  |



| 28.3_VFB3p6V |       |       |       |       |
|--------------|-------|-------|-------|-------|
| Test Site    |       |       |       |       |
| Tester       |       |       |       |       |
| Test Number  |       |       |       |       |
| Max Limit    | 1.017 | V     |       |       |
| Min Limit    | 0.987 | V     |       |       |
| kRad(Si)     | 20    | 25    | 30    | 35    |
| LL           | 0.987 | 0.987 | 0.987 | 0.987 |
| Min          | 1.003 | 1.004 | 1.002 | 1.002 |
| Average      | 1.004 | 1.005 | 1.004 | 1.004 |
| Max          | 1.007 | 1.007 | 1.006 | 1.005 |
| UL           | 1.017 | 1.017 | 1.017 | 1.017 |

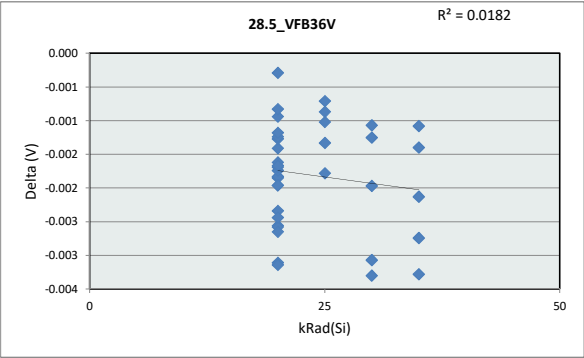


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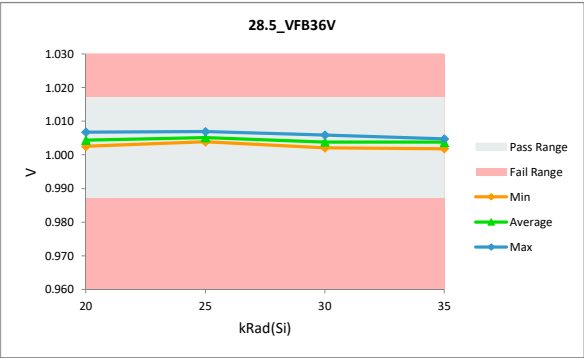
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 28.5_VFB36V |       |       |
|-------------|-------|-------|
| Test Site   |       |       |
| Tester      |       |       |
| Test Number |       |       |
| Unit        | V     | V     |
| Max Limit   | 1.017 | 1.017 |
| Min Limit   | 0.987 | 0.987 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.008   | 1.007    | -0.001 |
| 25       | 2        | 1.007   | 1.006    | -0.001 |
| 25       | 3        | 1.006   | 1.004    | -0.002 |
| 25       | 4        | 1.005   | 1.004    | -0.001 |
| 25       | 5        | 1.006   | 1.005    | -0.001 |
| 20       | 6        | 1.007   | 1.005    | -0.002 |
| 20       | 7        | 1.006   | 1.004    | -0.002 |
| 20       | 8        | 1.005   | 1.004    | -0.001 |
| 20       | 9        | 1.006   | 1.005    | -0.001 |
| 20       | 10       | 1.006   | 1.005    | -0.001 |
| 20       | 11       | 1.006   | 1.004    | -0.001 |
| 20       | 12       | 1.006   | 1.004    | -0.002 |
| 20       | 13       | 1.007   | 1.004    | -0.003 |
| 20       | 14       | 1.005   | 1.003    | -0.003 |
| 20       | 15       | 1.007   | 1.007    | 0.000  |
| 20       | 16       | 1.004   | 1.003    | -0.002 |
| 20       | 17       | 1.007   | 1.006    | -0.002 |
| 20       | 18       | 1.006   | 1.003    | -0.002 |
| 20       | 19       | 1.006   | 1.003    | -0.003 |
| 20       | 20       | 1.006   | 1.004    | -0.002 |
| 20       | 21       | 1.007   | 1.004    | -0.003 |
| 20       | 22       | 1.006   | 1.004    | -0.002 |
| 20       | 23       | 1.006   | 1.005    | -0.001 |
| 20       | 24       | 1.007   | 1.005    | -0.002 |
| 20       | 25       | 1.007   | 1.005    | -0.003 |
| 20       | 26       | 1.006   | 1.004    | -0.002 |
| 20       | 27       | 1.008   | 1.006    | -0.001 |
| 35       | 28       | 1.006   | 1.005    | -0.001 |
| 35       | 29       | 1.006   | 1.004    | -0.001 |
| 35       | 30       | 1.005   | 1.002    | -0.003 |
| 35       | 31       | 1.006   | 1.003    | -0.003 |
| 35       | 32       | 1.007   | 1.004    | -0.002 |
| 30       | 33       | 1.008   | 1.004    | -0.003 |
| 30       | 34       | 1.005   | 1.002    | -0.003 |
| 30       | 35       | 1.005   | 1.003    | -0.002 |
| 30       | 36       | 1.005   | 1.003    | -0.001 |
| 30       | 37       | 1.007   | 1.006    | -0.001 |
|          | Max      | 1.008   | 1.007    | 0.000  |
|          | Average  | 1.006   | 1.004    | -0.002 |
|          | Min      | 1.004   | 1.002    | -0.003 |
|          | Std Dev  | 0.001   | 0.001    | 0.001  |



| 28.5_VFB36V |       |       |       |       |
|-------------|-------|-------|-------|-------|
| Test Site   |       |       |       |       |
| Tester      |       |       |       |       |
| Test Number |       |       |       |       |
| Max Limit   | 1.017 | V     |       |       |
| Min Limit   | 0.987 | V     |       |       |
| kRad(Si)    | 20    | 25    | 30    | 35    |
| LL          | 0.987 | 0.987 | 0.987 | 0.987 |
| Min         | 1.003 | 1.004 | 1.002 | 1.002 |
| Average     | 1.004 | 1.005 | 1.004 | 1.004 |
| Max         | 1.007 | 1.007 | 1.006 | 1.005 |
| UL          | 1.017 | 1.017 | 1.017 | 1.017 |

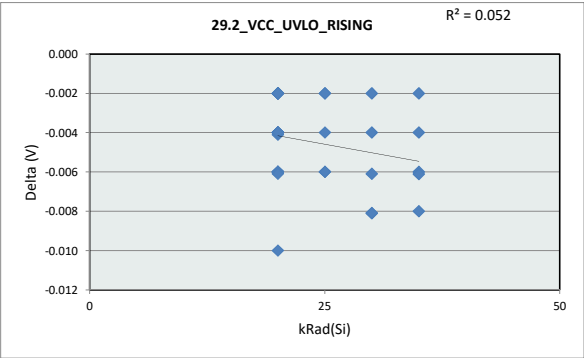


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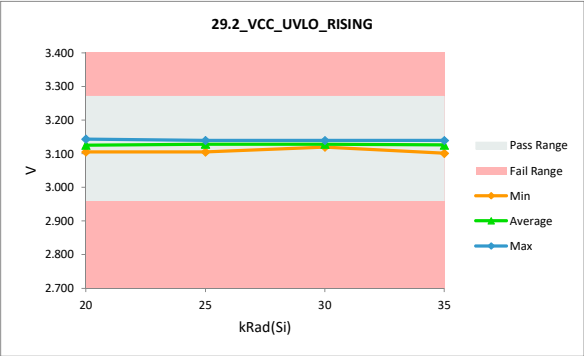
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.2_VCC_UVLO_RISING |      |      |
|----------------------|------|------|
| Test Site            |      |      |
| Tester               |      |      |
| Test Number          |      |      |
| Unit                 | V    | V    |
| Max Limit            | 3.27 | 3.27 |
| Min Limit            | 2.96 | 2.96 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 3.139   | 3.137    | -0.002 |
| 25       | 2        | 3.123   | 3.121    | -0.002 |
| 25       | 3        | 3.111   | 3.105    | -0.006 |
| 25       | 4        | 3.145   | 3.139    | -0.006 |
| 25       | 5        | 3.141   | 3.137    | -0.004 |
| 20       | 6        | 3.135   | 3.131    | -0.004 |
| 20       | 7        | 3.119   | 3.113    | -0.006 |
| 20       | 8        | 3.135   | 3.133    | -0.002 |
| 20       | 9        | 3.143   | 3.139    | -0.004 |
| 20       | 10       | 3.125   | 3.121    | -0.004 |
| 20       | 11       | 3.131   | 3.129    | -0.002 |
| 20       | 12       | 3.119   | 3.117    | -0.002 |
| 20       | 13       | 3.141   | 3.131    | -0.010 |
| 20       | 14       | 3.123   | 3.121    | -0.002 |
| 20       | 15       | 3.129   | 3.127    | -0.002 |
| 20       | 16       | 3.147   | 3.143    | -0.004 |
| 20       | 17       | 3.137   | 3.135    | -0.002 |
| 20       | 18       | 3.133   | 3.129    | -0.004 |
| 20       | 19       | 3.139   | 3.133    | -0.006 |
| 20       | 20       | 3.139   | 3.135    | -0.004 |
| 20       | 21       | 3.111   | 3.105    | -0.006 |
| 20       | 22       | 3.115   | 3.109    | -0.006 |
| 20       | 23       | 3.109   | 3.107    | -0.002 |
| 20       | 24       | 3.121   | 3.117    | -0.004 |
| 20       | 25       | 3.137   | 3.131    | -0.006 |
| 20       | 26       | 3.127   | 3.121    | -0.006 |
| 20       | 27       | 3.135   | 3.131    | -0.004 |
| 35       | 28       | 3.133   | 3.131    | -0.002 |
| 35       | 29       | 3.139   | 3.133    | -0.006 |
| 35       | 30       | 3.109   | 3.101    | -0.008 |
| 35       | 31       | 3.129   | 3.123    | -0.006 |
| 35       | 32       | 3.143   | 3.139    | -0.004 |
| 30       | 33       | 3.131   | 3.123    | -0.008 |
| 30       | 34       | 3.127   | 3.119    | -0.008 |
| 30       | 35       | 3.127   | 3.121    | -0.006 |
| 30       | 36       | 3.141   | 3.139    | -0.002 |
| 30       | 37       | 3.141   | 3.137    | -0.004 |
| Max      |          | 3.147   | 3.143    | -0.002 |
| Average  |          | 3.131   | 3.126    | -0.005 |
| Min      |          | 3.109   | 3.101    | -0.010 |
| Std Dev  |          | 0.011   | 0.011    | 0.002  |



| 29.2_VCC_UVLO_RISING |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Test Site            |       |       |       |       |
| Tester               |       |       |       |       |
| Test Number          |       |       |       |       |
| Max Limit            | 3.27  | V     |       |       |
| Min Limit            | 2.96  | V     |       |       |
| kRad(Si)             | 20    | 25    | 30    | 35    |
| LL                   | 2.960 | 2.960 | 2.960 | 2.960 |
| Min                  | 3.105 | 3.105 | 3.119 | 3.101 |
| Average              | 3.126 | 3.128 | 3.128 | 3.126 |
| Max                  | 3.143 | 3.139 | 3.139 | 3.139 |
| UL                   | 3.270 | 3.270 | 3.270 | 3.270 |

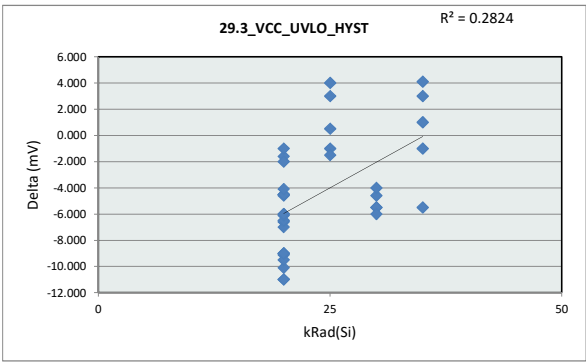


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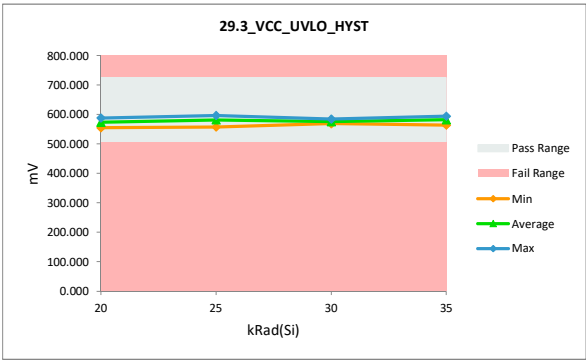
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.3_VCC_UVLO_HYST |     |     |
|--------------------|-----|-----|
| Test Site          |     |     |
| Tester             |     |     |
| Test Number        |     |     |
| Unit               | mV  | mV  |
| Max Limit          | 725 | 725 |
| Min Limit          | 505 | 505 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta   |
|----------|----------|---------|----------|---------|
| 25       | 1        | 586.600 | 587.100  | 0.500   |
| 25       | 2        | 570.600 | 573.600  | 3.000   |
| 25       | 3        | 558.600 | 557.600  | -1.000  |
| 25       | 4        | 592.700 | 596.700  | 4.000   |
| 25       | 5        | 593.700 | 592.200  | -1.500  |
| 20       | 6        | 587.700 | 586.100  | -1.600  |
| 20       | 7        | 569.100 | 558.100  | -11.000 |
| 20       | 8        | 590.200 | 585.600  | -4.600  |
| 20       | 9        | 593.200 | 586.600  | -6.600  |
| 20       | 10       | 575.100 | 566.100  | -9.000  |
| 20       | 11       | 578.600 | 576.600  | -2.000  |
| 20       | 12       | 569.100 | 564.600  | -4.500  |
| 20       | 13       | 593.700 | 583.600  | -10.100 |
| 20       | 14       | 570.600 | 566.100  | -4.500  |
| 20       | 15       | 576.600 | 572.100  | -4.500  |
| 20       | 16       | 592.200 | 588.100  | -4.100  |
| 20       | 17       | 582.100 | 575.100  | -7.000  |
| 20       | 18       | 580.600 | 574.100  | -6.500  |
| 20       | 19       | 591.700 | 585.600  | -6.100  |
| 20       | 20       | 591.700 | 582.600  | -9.100  |
| 20       | 21       | 566.100 | 565.100  | -1.000  |
| 20       | 22       | 570.100 | 559.100  | -11.000 |
| 20       | 23       | 564.100 | 554.600  | -9.500  |
| 20       | 24       | 573.600 | 564.600  | -9.000  |
| 20       | 25       | 584.600 | 578.600  | -6.000  |
| 20       | 26       | 572.100 | 566.100  | -6.000  |
| 20       | 27       | 582.600 | 573.600  | -9.000  |
| 35       | 28       | 575.600 | 578.600  | 3.000   |
| 35       | 29       | 586.600 | 590.700  | 4.100   |
| 35       | 30       | 569.100 | 563.600  | -5.500  |
| 35       | 31       | 586.700 | 585.700  | -1.000  |
| 35       | 32       | 593.200 | 594.200  | 1.000   |
| 30       | 33       | 581.100 | 575.600  | -5.500  |
| 30       | 34       | 574.600 | 569.100  | -5.500  |
| 30       | 35       | 574.600 | 568.600  | -6.000  |
| 30       | 36       | 588.700 | 584.100  | -4.600  |
| 30       | 37       | 586.100 | 582.100  | -4.000  |
| Max      |          | 593.700 | 596.700  | 4.100   |
| Average  |          | 580.376 | 576.005  | -4.370  |
| Min      |          | 558.600 | 554.600  | -11.000 |
| Std Dev  |          | 9.858   | 11.281   | 4.163   |



| 29.3_VCC_UVLO_HYST |         |         |         |         |
|--------------------|---------|---------|---------|---------|
| Test Site          |         |         |         |         |
| Tester             |         |         |         |         |
| Test Number        |         |         |         |         |
| Max Limit          | 725     | mV      |         |         |
| Min Limit          | 505     | mV      |         |         |
| kRad(Si)           | 20      | 25      | 30      | 35      |
| LL                 | 505.000 | 505.000 | 505.000 | 505.000 |
| Min                | 554.600 | 557.600 | 568.600 | 563.600 |
| Average            | 573.305 | 581.440 | 575.900 | 582.560 |
| Max                | 588.100 | 596.700 | 584.100 | 594.200 |
| UL                 | 725.000 | 725.000 | 725.000 | 725.000 |

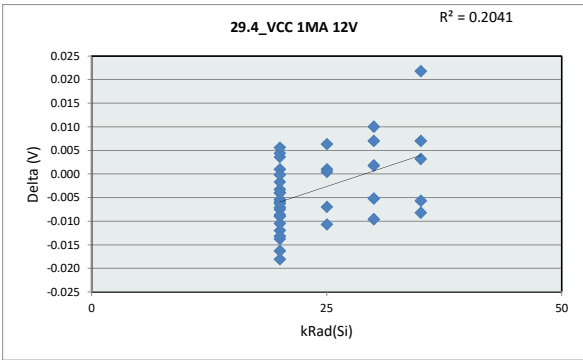


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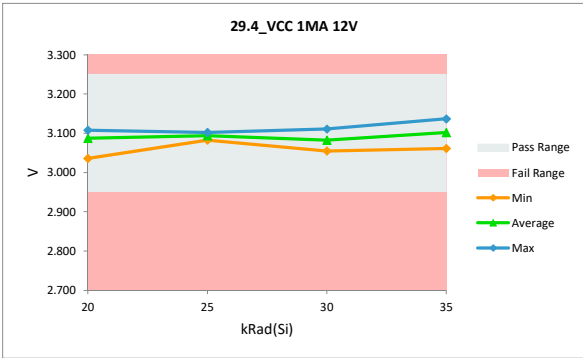
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.4_VCC 1MA 12V |      |      |
|------------------|------|------|
| Test Site        |      |      |
| Tester           |      |      |
| Test Number      |      |      |
| Unit             | V    | V    |
| Max Limit        | 3.25 | 3.25 |
| Min Limit        | 2.95 | 2.95 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 3.081   | 3.088    | 0.006  |
| 25       | 2        | 3.093   | 3.083    | -0.011 |
| 25       | 3        | 3.109   | 3.102    | -0.007 |
| 25       | 4        | 3.101   | 3.102    | 0.001  |
| 25       | 5        | 3.093   | 3.093    | 0.000  |
| 20       | 6        | 3.081   | 3.077    | -0.004 |
| 20       | 7        | 3.114   | 3.106    | -0.008 |
| 20       | 8        | 3.100   | 3.101    | 0.001  |
| 20       | 9        | 3.109   | 3.095    | -0.014 |
| 20       | 10       | 3.088   | 3.084    | -0.003 |
| 20       | 11       | 3.048   | 3.036    | -0.012 |
| 20       | 12       | 3.066   | 3.064    | -0.002 |
| 20       | 13       | 3.093   | 3.083    | -0.010 |
| 20       | 14       | 3.096   | 3.091    | -0.005 |
| 20       | 15       | 3.080   | 3.071    | -0.009 |
| 20       | 16       | 3.099   | 3.102    | 0.004  |
| 20       | 17       | 3.102   | 3.083    | -0.018 |
| 20       | 18       | 3.105   | 3.104    | 0.000  |
| 20       | 19       | 3.103   | 3.096    | -0.007 |
| 20       | 20       | 3.111   | 3.098    | -0.013 |
| 20       | 21       | 3.114   | 3.108    | -0.006 |
| 20       | 22       | 3.085   | 3.090    | 0.004  |
| 20       | 23       | 3.086   | 3.082    | -0.004 |
| 20       | 24       | 3.092   | 3.085    | -0.006 |
| 20       | 25       | 3.084   | 3.089    | 0.006  |
| 20       | 26       | 3.092   | 3.082    | -0.009 |
| 20       | 27       | 3.107   | 3.091    | -0.016 |
| 35       | 28       | 3.115   | 3.137    | 0.022  |
| 35       | 29       | 3.101   | 3.108    | 0.007  |
| 35       | 30       | 3.088   | 3.080    | -0.008 |
| 35       | 31       | 3.067   | 3.061    | -0.006 |
| 35       | 32       | 3.119   | 3.122    | 0.003  |
| 30       | 33       | 3.104   | 3.111    | 0.007  |
| 30       | 34       | 3.080   | 3.090    | 0.010  |
| 30       | 35       | 3.064   | 3.055    | -0.010 |
| 30       | 36       | 3.065   | 3.066    | 0.002  |
| 30       | 37       | 3.094   | 3.089    | -0.005 |
| Max      |          | 3.119   | 3.137    | 0.022  |
| Average  |          | 3.093   | 3.089    | -0.003 |
| Min      |          | 3.048   | 3.036    | -0.018 |
| Std Dev  |          | 0.016   | 0.019    | 0.008  |



| 29.4_VCC 1MA 12V |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        | 3.25  | V     |       |       |
| Min Limit        | 2.95  | V     |       |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 2.950 | 2.950 | 2.950 | 2.950 |
| Min              | 3.036 | 3.083 | 3.055 | 3.061 |
| Average          | 3.087 | 3.093 | 3.082 | 3.102 |
| Max              | 3.108 | 3.102 | 3.111 | 3.137 |
| UL               | 3.250 | 3.250 | 3.250 | 3.250 |



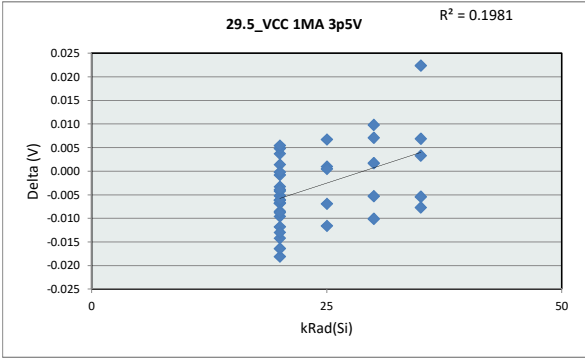
# LDR TID Report

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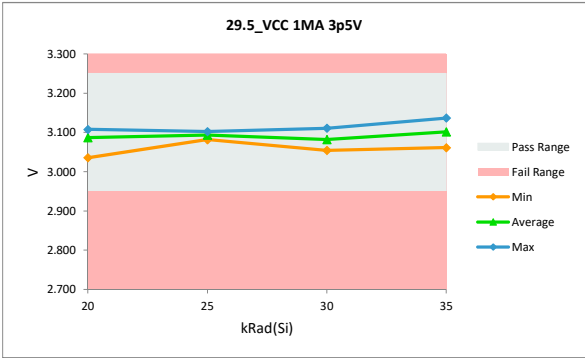
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.5_VCC 1MA 3p5V |      |      |
|-------------------|------|------|
| Test Site         |      |      |
| Tester            |      |      |
| Test Number       |      |      |
| Unit              | V    | V    |
| Max Limit         | 3.25 | 3.25 |
| Min Limit         | 2.95 | 2.95 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 3.081   | 3.088    | 0.007  |
| 25       | 2        | 3.093   | 3.082    | -0.012 |
| 25       | 3        | 3.109   | 3.102    | -0.007 |
| 25       | 4        | 3.101   | 3.102    | 0.001  |
| 25       | 5        | 3.093   | 3.093    | 0.000  |
| 20       | 6        | 3.081   | 3.076    | -0.004 |
| 20       | 7        | 3.114   | 3.107    | -0.007 |
| 20       | 8        | 3.100   | 3.101    | 0.001  |
| 20       | 9        | 3.110   | 3.095    | -0.014 |
| 20       | 10       | 3.088   | 3.084    | -0.003 |
| 20       | 11       | 3.048   | 3.036    | -0.012 |
| 20       | 12       | 3.065   | 3.064    | -0.001 |
| 20       | 13       | 3.092   | 3.083    | -0.010 |
| 20       | 14       | 3.096   | 3.090    | -0.005 |
| 20       | 15       | 3.080   | 3.071    | -0.008 |
| 20       | 16       | 3.099   | 3.102    | 0.004  |
| 20       | 17       | 3.101   | 3.083    | -0.018 |
| 20       | 18       | 3.105   | 3.104    | 0.000  |
| 20       | 19       | 3.103   | 3.096    | -0.007 |
| 20       | 20       | 3.111   | 3.098    | -0.013 |
| 20       | 21       | 3.114   | 3.108    | -0.006 |
| 20       | 22       | 3.085   | 3.090    | 0.005  |
| 20       | 23       | 3.086   | 3.082    | -0.004 |
| 20       | 24       | 3.092   | 3.086    | -0.006 |
| 20       | 25       | 3.083   | 3.089    | 0.005  |
| 20       | 26       | 3.091   | 3.082    | -0.009 |
| 20       | 27       | 3.107   | 3.091    | -0.016 |
| 35       | 28       | 3.115   | 3.137    | 0.022  |
| 35       | 29       | 3.101   | 3.108    | 0.007  |
| 35       | 30       | 3.088   | 3.080    | -0.008 |
| 35       | 31       | 3.067   | 3.061    | -0.005 |
| 35       | 32       | 3.119   | 3.122    | 0.003  |
| 30       | 33       | 3.104   | 3.111    | 0.007  |
| 30       | 34       | 3.080   | 3.090    | 0.010  |
| 30       | 35       | 3.064   | 3.054    | -0.010 |
| 30       | 36       | 3.065   | 3.066    | 0.002  |
| 30       | 37       | 3.094   | 3.089    | -0.005 |
| Max      |          | 3.119   | 3.137    | 0.022  |
| Average  |          | 3.092   | 3.089    | -0.003 |
| Min      |          | 3.048   | 3.036    | -0.018 |
| Std Dev  |          | 0.016   | 0.019    | 0.008  |



| 29.5_VCC 1MA 3p5V |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| Test Site         |       |       |       |       |
| Tester            |       |       |       |       |
| Test Number       |       |       |       |       |
| Max Limit         | 3.25  | V     |       |       |
| Min Limit         | 2.95  | V     |       |       |
| kRad(Si)          | 20    | 25    | 30    | 35    |
| LL                | 2.950 | 2.950 | 2.950 | 2.950 |
| Min               | 3.036 | 3.082 | 3.054 | 3.061 |
| Average           | 3.087 | 3.093 | 3.082 | 3.102 |
| Max               | 3.108 | 3.102 | 3.111 | 3.137 |
| UL                | 3.250 | 3.250 | 3.250 | 3.250 |



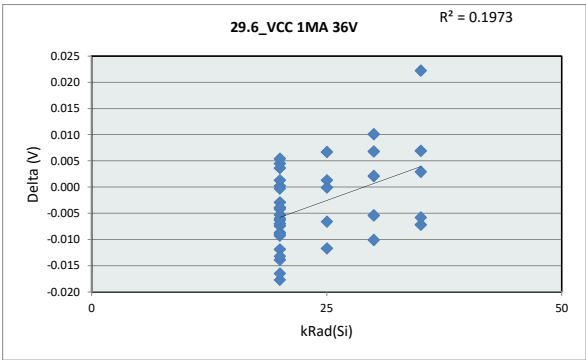


**LDR TID Report**  
**TPS7H4010-SEP**

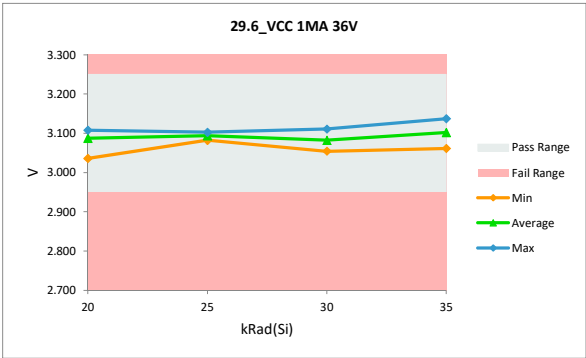
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.6_VCC 1MA 36V |      |      |
|------------------|------|------|
| Test Site        |      |      |
| Tester           |      |      |
| Test Number      |      |      |
| Unit             | V    | V    |
| Max Limit        | 3.25 | 3.25 |
| Min Limit        | 2.95 | 2.95 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 3.081   | 3.088    | 0.007  |
| 25       | 2        | 3.094   | 3.082    | -0.012 |
| 25       | 3        | 3.108   | 3.102    | -0.007 |
| 25       | 4        | 3.101   | 3.102    | 0.001  |
| 25       | 5        | 3.094   | 3.093    | 0.000  |
| 20       | 6        | 3.081   | 3.077    | -0.004 |
| 20       | 7        | 3.114   | 3.106    | -0.007 |
| 20       | 8        | 3.100   | 3.101    | 0.001  |
| 20       | 9        | 3.109   | 3.095    | -0.014 |
| 20       | 10       | 3.087   | 3.085    | -0.003 |
| 20       | 11       | 3.048   | 3.036    | -0.012 |
| 20       | 12       | 3.065   | 3.065    | 0.000  |
| 20       | 13       | 3.092   | 3.083    | -0.009 |
| 20       | 14       | 3.096   | 3.090    | -0.005 |
| 20       | 15       | 3.080   | 3.071    | -0.009 |
| 20       | 16       | 3.099   | 3.102    | 0.004  |
| 20       | 17       | 3.101   | 3.083    | -0.018 |
| 20       | 18       | 3.105   | 3.104    | 0.000  |
| 20       | 19       | 3.103   | 3.096    | -0.007 |
| 20       | 20       | 3.111   | 3.097    | -0.013 |
| 20       | 21       | 3.114   | 3.108    | -0.006 |
| 20       | 22       | 3.085   | 3.090    | 0.004  |
| 20       | 23       | 3.086   | 3.082    | -0.004 |
| 20       | 24       | 3.092   | 3.086    | -0.006 |
| 20       | 25       | 3.084   | 3.089    | 0.005  |
| 20       | 26       | 3.091   | 3.082    | -0.009 |
| 20       | 27       | 3.108   | 3.091    | -0.016 |
| 35       | 28       | 3.115   | 3.137    | 0.022  |
| 35       | 29       | 3.102   | 3.109    | 0.007  |
| 35       | 30       | 3.088   | 3.080    | -0.007 |
| 35       | 31       | 3.067   | 3.061    | -0.006 |
| 35       | 32       | 3.119   | 3.122    | 0.003  |
| 30       | 33       | 3.104   | 3.111    | 0.007  |
| 30       | 34       | 3.080   | 3.090    | 0.010  |
| 30       | 35       | 3.064   | 3.054    | -0.010 |
| 30       | 36       | 3.064   | 3.066    | 0.002  |
| 30       | 37       | 3.094   | 3.089    | -0.005 |
| Max      |          | 3.119   | 3.137    | 0.022  |
| Average  |          | 3.093   | 3.089    | -0.003 |
| Min      |          | 3.048   | 3.036    | -0.018 |
| Std Dev  |          | 0.016   | 0.019    | 0.008  |



| 29.6_VCC 1MA 36V |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        | 3.25  | V     |       |       |
| Min Limit        | 2.95  | V     |       |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 2.950 | 2.950 | 2.950 | 2.950 |
| Min              | 3.036 | 3.082 | 3.054 | 3.061 |
| Average          | 3.087 | 3.094 | 3.082 | 3.102 |
| Max              | 3.108 | 3.103 | 3.111 | 3.137 |
| UL               | 3.250 | 3.250 | 3.250 | 3.250 |

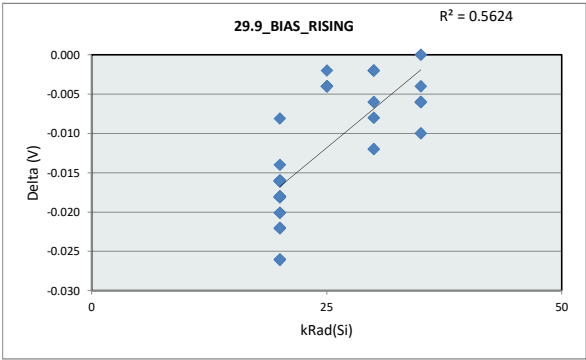


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**TPS7H4010-SEP**

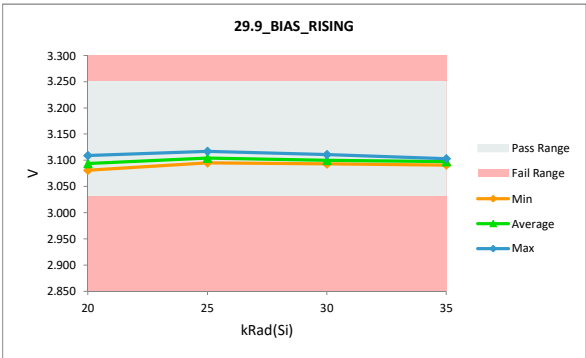
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.9_BIAS_RISING |      |      |
|------------------|------|------|
| Test Site        |      |      |
| Tester           |      |      |
| Test Number      |      |      |
| Unit             | V    | V    |
| Max Limit        | 3.25 | 3.25 |
| Min Limit        | 3.03 | 3.03 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 3.105   | 3.103    | -0.002 |
| 25       | 2        | 3.109   | 3.105    | -0.004 |
| 25       | 3        | 3.099   | 3.095    | -0.004 |
| 25       | 4        | 3.105   | 3.101    | -0.004 |
| 25       | 5        | 3.121   | 3.117    | -0.004 |
| 20       | 6        | 3.117   | 3.099    | -0.018 |
| 20       | 7        | 3.113   | 3.091    | -0.022 |
| 20       | 8        | 3.105   | 3.091    | -0.014 |
| 20       | 9        | 3.119   | 3.101    | -0.018 |
| 20       | 10       | 3.105   | 3.087    | -0.018 |
| 20       | 11       | 3.105   | 3.089    | -0.016 |
| 20       | 12       | 3.119   | 3.093    | -0.026 |
| 20       | 13       | 3.103   | 3.087    | -0.016 |
| 20       | 14       | 3.099   | 3.081    | -0.018 |
| 20       | 15       | 3.121   | 3.105    | -0.016 |
| 20       | 16       | 3.097   | 3.081    | -0.016 |
| 20       | 17       | 3.119   | 3.101    | -0.018 |
| 20       | 18       | 3.121   | 3.099    | -0.022 |
| 20       | 19       | 3.103   | 3.087    | -0.016 |
| 20       | 20       | 3.121   | 3.103    | -0.018 |
| 20       | 21       | 3.113   | 3.087    | -0.026 |
| 20       | 22       | 3.101   | 3.085    | -0.016 |
| 20       | 23       | 3.115   | 3.095    | -0.020 |
| 20       | 24       | 3.107   | 3.089    | -0.018 |
| 20       | 25       | 3.115   | 3.099    | -0.016 |
| 20       | 26       | 3.119   | 3.099    | -0.020 |
| 20       | 27       | 3.117   | 3.109    | -0.008 |
| 35       | 28       | 3.097   | 3.097    | 0.000  |
| 35       | 29       | 3.101   | 3.095    | -0.006 |
| 35       | 30       | 3.113   | 3.103    | -0.010 |
| 35       | 31       | 3.097   | 3.091    | -0.006 |
| 35       | 32       | 3.105   | 3.101    | -0.004 |
| 30       | 33       | 3.109   | 3.101    | -0.008 |
| 30       | 34       | 3.099   | 3.093    | -0.006 |
| 30       | 35       | 3.107   | 3.095    | -0.012 |
| 30       | 36       | 3.101   | 3.099    | -0.002 |
| 30       | 37       | 3.113   | 3.111    | -0.002 |
| Max      |          | 3.121   | 3.117    | 0.000  |
| Average  |          | 3.109   | 3.096    | -0.013 |
| Min      |          | 3.097   | 3.081    | -0.026 |
| Std Dev  |          | 0.008   | 0.008    | 0.007  |



| 29.9_BIAS_RISING |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        | 3.25  | V     |       |       |
| Min Limit        | 3.03  | V     |       |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 3.030 | 3.030 | 3.030 | 3.030 |
| Min              | 3.081 | 3.095 | 3.093 | 3.091 |
| Average          | 3.094 | 3.104 | 3.100 | 3.097 |
| Max              | 3.109 | 3.117 | 3.111 | 3.103 |
| UL               | 3.250 | 3.250 | 3.250 | 3.250 |

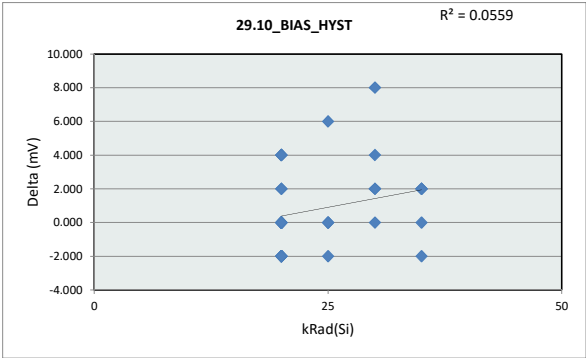


**LDR TID Report**  
**TPS7H4010-SEP**

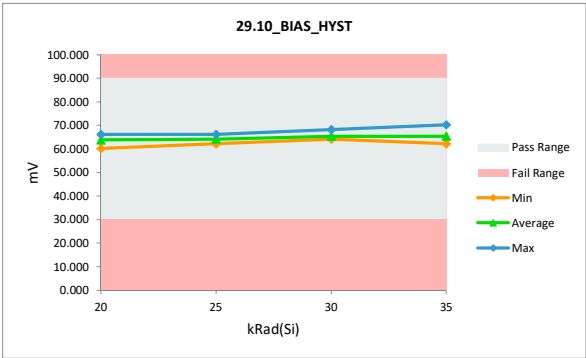
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.10_BIAS_HYST |    |    |
|-----------------|----|----|
| Test Site       |    |    |
| Tester          |    |    |
| Test Number     |    |    |
| Unit            | mV | mV |
| Max Limit       | 90 | 90 |
| Min Limit       | 30 | 30 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 62.200  | 62.200   | 0.000  |
| 25       | 2        | 64.200  | 64.200   | 0.000  |
| 25       | 3        | 66.200  | 66.200   | 0.000  |
| 25       | 4        | 60.200  | 66.200   | 6.000  |
| 25       | 5        | 64.200  | 62.200   | -2.000 |
| 20       | 6        | 66.200  | 64.200   | -2.000 |
| 20       | 7        | 66.200  | 66.200   | 0.000  |
| 20       | 8        | 62.200  | 66.200   | 4.000  |
| 20       | 9        | 62.200  | 62.200   | 0.000  |
| 20       | 10       | 62.200  | 64.200   | 2.000  |
| 20       | 11       | 64.200  | 64.200   | 0.000  |
| 20       | 12       | 64.200  | 62.200   | -2.000 |
| 20       | 13       | 62.200  | 66.200   | 4.000  |
| 20       | 14       | 62.200  | 66.200   | 4.000  |
| 20       | 15       | 66.200  | 66.200   | 0.000  |
| 20       | 16       | 66.200  | 66.200   | 0.000  |
| 20       | 17       | 62.200  | 62.200   | 0.000  |
| 20       | 18       | 62.200  | 64.200   | 2.000  |
| 20       | 19       | 66.200  | 64.200   | -2.000 |
| 20       | 20       | 62.200  | 62.200   | 0.000  |
| 20       | 21       | 68.200  | 66.200   | -2.000 |
| 20       | 22       | 60.200  | 64.200   | 4.000  |
| 20       | 23       | 64.200  | 62.200   | -2.000 |
| 20       | 24       | 60.200  | 60.200   | 0.000  |
| 20       | 25       | 62.200  | 60.200   | -2.000 |
| 20       | 26       | 62.200  | 60.200   | -2.000 |
| 20       | 27       | 64.200  | 64.200   | 0.000  |
| 35       | 28       | 68.200  | 70.200   | 2.000  |
| 35       | 29       | 64.200  | 64.200   | 0.000  |
| 35       | 30       | 64.200  | 62.200   | -2.000 |
| 35       | 31       | 62.200  | 64.200   | 2.000  |
| 35       | 32       | 64.200  | 66.200   | 2.000  |
| 30       | 33       | 60.200  | 68.200   | 8.000  |
| 30       | 34       | 62.200  | 66.200   | 4.000  |
| 30       | 35       | 64.200  | 64.200   | 0.000  |
| 30       | 36       | 62.200  | 64.200   | 2.000  |
| 30       | 37       | 62.200  | 64.200   | 2.000  |
| Max      |          | 68.200  | 70.200   | 8.000  |
| Average  |          | 63.497  | 64.308   | 0.811  |
| Min      |          | 60.200  | 60.200   | -2.000 |
| Std Dev  |          | 2.120   | 2.208    | 2.470  |



| 29.10_BIAS_HYST |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Test Site       |        |        |        |        |
| Tester          |        |        |        |        |
| Test Number     |        |        |        |        |
| Max Limit       | 90     | mV     |        |        |
| Min Limit       | 30     | mV     |        |        |
| kRad(Si)        | 20     | 25     | 30     | 35     |
| LL              | 30.000 | 30.000 | 30.000 | 30.000 |
| Min             | 60.200 | 62.200 | 64.200 | 62.200 |
| Average         | 63.836 | 64.200 | 65.400 | 65.400 |
| Max             | 66.200 | 66.200 | 68.200 | 70.200 |
| UL              | 90.000 | 90.000 | 90.000 | 90.000 |



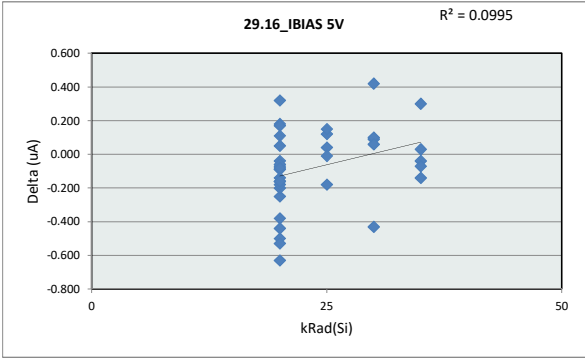
# LDR TID Report

## TPS7H4010-SEP

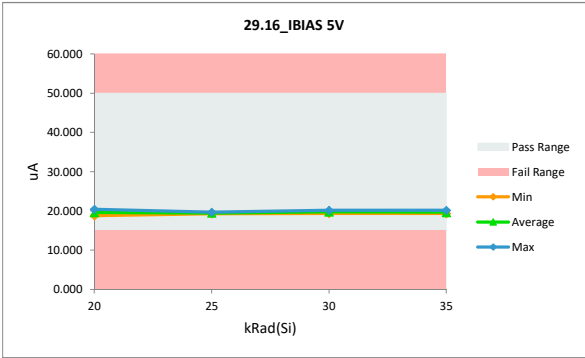
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 29.16_IBIAS 5V |    |    |
|----------------|----|----|
| Test Site      |    |    |
| Tester         |    |    |
| Test Number    |    |    |
| Unit           | uA | uA |
| Max Limit      | 50 | 50 |
| Min Limit      | 15 | 15 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 19.240  | 19.280   | 0.040  |
| 25       | 2        | 19.490  | 19.310   | -0.180 |
| 25       | 3        | 19.540  | 19.660   | 0.120  |
| 25       | 4        | 19.310  | 19.460   | 0.150  |
| 25       | 5        | 19.620  | 19.610   | -0.010 |
| 20       | 6        | 19.820  | 19.570   | -0.250 |
| 20       | 7        | 19.340  | 19.140   | -0.200 |
| 20       | 8        | 19.930  | 19.430   | -0.500 |
| 20       | 9        | 20.150  | 19.620   | -0.530 |
| 20       | 10       | 19.940  | 19.850   | -0.090 |
| 20       | 11       | 19.970  | 19.590   | -0.380 |
| 20       | 12       | 19.450  | 18.820   | -0.630 |
| 20       | 13       | 19.930  | 19.860   | -0.070 |
| 20       | 14       | 19.900  | 19.720   | -0.180 |
| 20       | 15       | 19.390  | 19.250   | -0.140 |
| 20       | 16       | 20.230  | 20.410   | 0.180  |
| 20       | 17       | 19.990  | 20.100   | 0.110  |
| 20       | 18       | 19.890  | 19.730   | -0.160 |
| 20       | 19       | 19.840  | 19.680   | -0.160 |
| 20       | 20       | 19.270  | 19.230   | -0.040 |
| 20       | 21       | 19.270  | 19.590   | 0.320  |
| 20       | 22       | 19.820  | 19.990   | 0.170  |
| 20       | 23       | 19.400  | 19.340   | -0.060 |
| 20       | 24       | 19.560  | 19.470   | -0.090 |
| 20       | 25       | 20.080  | 20.000   | -0.080 |
| 20       | 26       | 19.810  | 19.860   | 0.050  |
| 20       | 27       | 19.490  | 19.050   | -0.440 |
| 35       | 28       | 19.390  | 19.350   | -0.040 |
| 35       | 29       | 19.860  | 20.160   | 0.300  |
| 35       | 30       | 19.750  | 19.680   | -0.070 |
| 35       | 31       | 19.510  | 19.540   | 0.030  |
| 35       | 32       | 19.670  | 19.530   | -0.140 |
| 30       | 33       | 19.650  | 19.740   | 0.090  |
| 30       | 34       | 19.270  | 19.690   | 0.420  |
| 30       | 35       | 19.930  | 20.030   | 0.100  |
| 30       | 36       | 20.600  | 20.170   | -0.430 |
| 30       | 37       | 19.320  | 19.380   | 0.060  |
| Max      |          | 20.600  | 20.410   | 0.420  |
| Average  |          | 19.692  | 19.619   | -0.074 |
| Min      |          | 19.240  | 18.820   | -0.630 |
| Std Dev  |          | 0.320   | 0.338    | 0.239  |



| 29.16_IBIAS 5V |        |        |        |        |
|----------------|--------|--------|--------|--------|
| Test Site      |        |        |        |        |
| Tester         |        |        |        |        |
| Test Number    |        |        |        |        |
| Max Limit      | 50     | uA     |        |        |
| Min Limit      | 15     | uA     |        |        |
| kRad(Si)       | 20     | 25     | 30     | 35     |
| LL             | 15.000 | 15.000 | 15.000 | 15.000 |
| Min            | 18.820 | 19.280 | 19.380 | 19.350 |
| Average        | 19.605 | 19.464 | 19.802 | 19.652 |
| Max            | 20.410 | 19.660 | 20.170 | 20.160 |
| UL             | 50.000 | 50.000 | 50.000 | 50.000 |



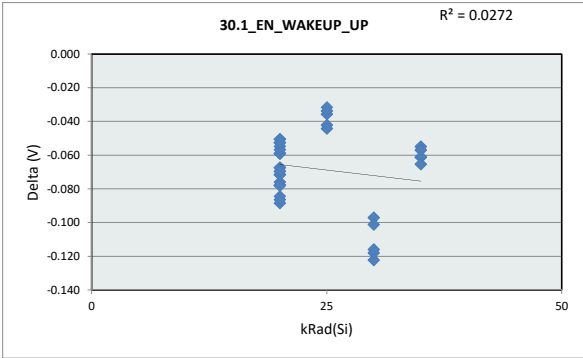
# LDR TID Report

## TPS7H4010-SEP

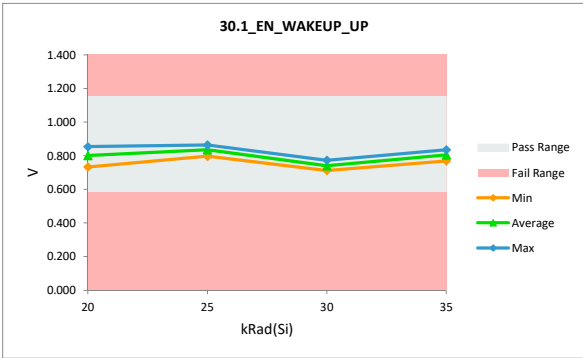
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 30.1_EN_WAKEUP_UP |      |      |
|-------------------|------|------|
| Test Site         |      |      |
| Tester            |      |      |
| Test Number       |      |      |
| Unit              | V    | V    |
| Max Limit         | 1.15 | 1.15 |
| Min Limit         | 0.58 | 0.58 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.862   | 0.826    | -0.036 |
| 25       | 2        | 0.839   | 0.796    | -0.042 |
| 25       | 3        | 0.891   | 0.858    | -0.034 |
| 25       | 4        | 0.896   | 0.864    | -0.032 |
| 25       | 5        | 0.872   | 0.828    | -0.044 |
| 20       | 6        | 0.853   | 0.765    | -0.089 |
| 20       | 7        | 0.872   | 0.801    | -0.072 |
| 20       | 8        | 0.870   | 0.786    | -0.084 |
| 20       | 9        | 0.862   | 0.794    | -0.067 |
| 20       | 10       | 0.887   | 0.832    | -0.055 |
| 20       | 11       | 0.887   | 0.836    | -0.051 |
| 20       | 12       | 0.811   | 0.733    | -0.078 |
| 20       | 13       | 0.872   | 0.796    | -0.076 |
| 20       | 14       | 0.870   | 0.784    | -0.086 |
| 20       | 15       | 0.881   | 0.811    | -0.070 |
| 20       | 16       | 0.849   | 0.771    | -0.078 |
| 20       | 17       | 0.845   | 0.786    | -0.059 |
| 20       | 18       | 0.902   | 0.834    | -0.067 |
| 20       | 19       | 0.874   | 0.803    | -0.072 |
| 20       | 20       | 0.862   | 0.803    | -0.059 |
| 20       | 21       | 0.862   | 0.784    | -0.078 |
| 20       | 22       | 0.862   | 0.792    | -0.070 |
| 20       | 23       | 0.870   | 0.811    | -0.059 |
| 20       | 24       | 0.864   | 0.807    | -0.057 |
| 20       | 25       | 0.860   | 0.807    | -0.053 |
| 20       | 26       | 0.864   | 0.813    | -0.051 |
| 20       | 27       | 0.906   | 0.853    | -0.053 |
| 35       | 28       | 0.896   | 0.834    | -0.061 |
| 35       | 29       | 0.874   | 0.820    | -0.055 |
| 35       | 30       | 0.826   | 0.769    | -0.057 |
| 35       | 31       | 0.855   | 0.794    | -0.061 |
| 35       | 32       | 0.870   | 0.805    | -0.065 |
| 30       | 33       | 0.870   | 0.773    | -0.097 |
| 30       | 34       | 0.877   | 0.754    | -0.122 |
| 30       | 35       | 0.830   | 0.712    | -0.118 |
| 30       | 36       | 0.834   | 0.718    | -0.116 |
| 30       | 37       | 0.841   | 0.739    | -0.101 |
| Max      |          | 0.906   | 0.864    | -0.032 |
| Average  |          | 0.865   | 0.797    | -0.068 |
| Min      |          | 0.811   | 0.712    | -0.122 |
| Std Dev  |          | 0.021   | 0.036    | 0.022  |



| 30.1_EN_WAKEUP_UP |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| Test Site         |       |       |       |       |
| Tester            |       |       |       |       |
| Test Number       |       |       |       |       |
| Max Limit         | 1.15  | V     |       |       |
| Min Limit         | 0.58  | V     |       |       |
| kRad(Si)          | 20    | 25    | 30    | 35    |
| LL                | 0.580 | 0.580 | 0.580 | 0.580 |
| Min               | 0.733 | 0.796 | 0.712 | 0.769 |
| Average           | 0.800 | 0.834 | 0.740 | 0.804 |
| Max               | 0.853 | 0.864 | 0.773 | 0.834 |
| UL                | 1.150 | 1.150 | 1.150 | 1.150 |

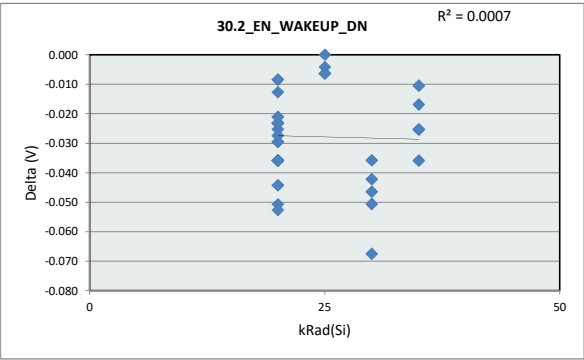


**LDR TID Report**  
**TPS7H4010-SEP**

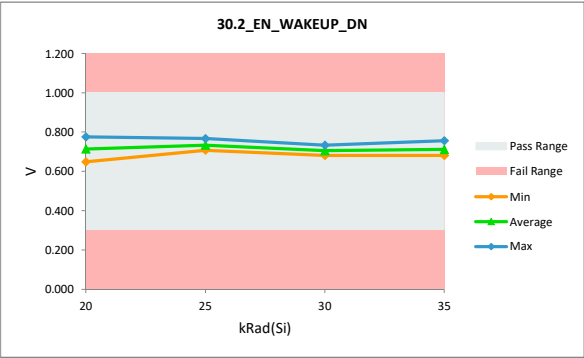
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 30.2_EN_WAKEUP_DN |     |     |
|-------------------|-----|-----|
| Test Site         |     |     |
| Tester            |     |     |
| Test Number       |     |     |
| Unit              | V   | V   |
| Max Limit         | 1   | 1   |
| Min Limit         | 0.3 | 0.3 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.733   | 0.727    | -0.006 |
| 25       | 2        | 0.767   | 0.767    | 0.000  |
| 25       | 3        | 0.727   | 0.723    | -0.004 |
| 25       | 4        | 0.714   | 0.708    | -0.006 |
| 25       | 5        | 0.750   | 0.744    | -0.006 |
| 20       | 6        | 0.799   | 0.775    | -0.023 |
| 20       | 7        | 0.712   | 0.687    | -0.025 |
| 20       | 8        | 0.737   | 0.701    | -0.036 |
| 20       | 9        | 0.720   | 0.676    | -0.044 |
| 20       | 10       | 0.733   | 0.697    | -0.036 |
| 20       | 11       | 0.767   | 0.737    | -0.030 |
| 20       | 12       | 0.680   | 0.657    | -0.023 |
| 20       | 13       | 0.752   | 0.729    | -0.023 |
| 20       | 14       | 0.735   | 0.685    | -0.051 |
| 20       | 15       | 0.784   | 0.748    | -0.036 |
| 20       | 16       | 0.735   | 0.691    | -0.044 |
| 20       | 17       | 0.782   | 0.769    | -0.013 |
| 20       | 18       | 0.699   | 0.678    | -0.021 |
| 20       | 19       | 0.763   | 0.739    | -0.023 |
| 20       | 20       | 0.799   | 0.769    | -0.030 |
| 20       | 21       | 0.754   | 0.718    | -0.036 |
| 20       | 22       | 0.742   | 0.714    | -0.027 |
| 20       | 23       | 0.701   | 0.649    | -0.053 |
| 20       | 24       | 0.723   | 0.714    | -0.008 |
| 20       | 25       | 0.758   | 0.723    | -0.036 |
| 20       | 26       | 0.758   | 0.750    | -0.008 |
| 20       | 27       | 0.718   | 0.697    | -0.021 |
| 35       | 28       | 0.737   | 0.720    | -0.017 |
| 35       | 29       | 0.767   | 0.756    | -0.011 |
| 35       | 30       | 0.731   | 0.706    | -0.025 |
| 35       | 31       | 0.716   | 0.680    | -0.036 |
| 35       | 32       | 0.718   | 0.693    | -0.025 |
| 30       | 33       | 0.746   | 0.704    | -0.042 |
| 30       | 34       | 0.784   | 0.733    | -0.051 |
| 30       | 35       | 0.727   | 0.680    | -0.046 |
| 30       | 36       | 0.744   | 0.708    | -0.036 |
| 30       | 37       | 0.771   | 0.704    | -0.067 |
| Max      |          | 0.799   | 0.775    | 0.000  |
| Average  |          | 0.743   | 0.715    | -0.028 |
| Min      |          | 0.680   | 0.649    | -0.067 |
| Std Dev  |          | 0.028   | 0.032    | 0.016  |



| 30.2_EN_WAKEUP_DN |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| Test Site         |       |       |       |       |
| Tester            |       |       |       |       |
| Test Number       |       |       |       |       |
| Max Limit         | 1     | V     |       |       |
| Min Limit         | 0.3   | V     |       |       |
| kRad(Si)          | 20    | 25    | 30    | 35    |
| LL                | 0.300 | 0.300 | 0.300 | 0.300 |
| Min               | 0.649 | 0.708 | 0.680 | 0.680 |
| Average           | 0.714 | 0.734 | 0.706 | 0.711 |
| Max               | 0.775 | 0.767 | 0.733 | 0.756 |
| UL                | 1.000 | 1.000 | 1.000 | 1.000 |

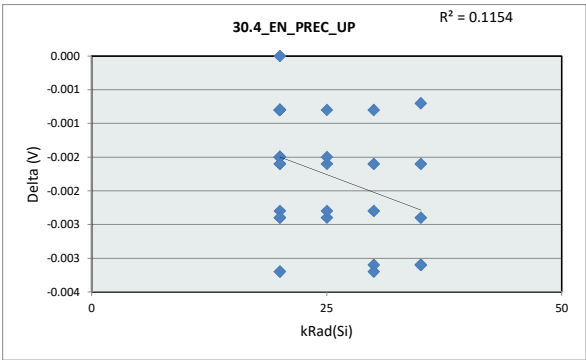


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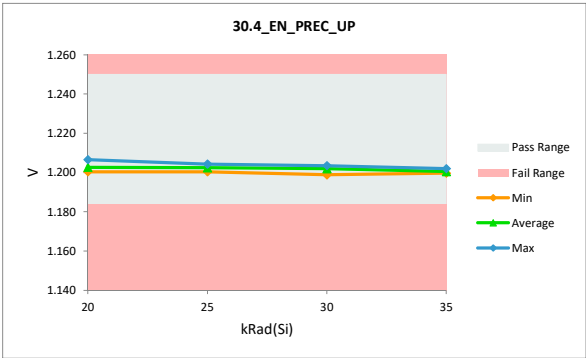
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 30.4_EN_PREC_UP |       |       |
|-----------------|-------|-------|
| Test Site       |       |       |
| Tester          |       |       |
| Test Number     |       |       |
| Unit            | V     | V     |
| Max Limit       | 1.25  | 1.25  |
| Min Limit       | 1.184 | 1.184 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.204   | 1.203    | -0.002 |
| 25       | 2        | 1.205   | 1.204    | -0.001 |
| 25       | 3        | 1.205   | 1.203    | -0.002 |
| 25       | 4        | 1.203   | 1.200    | -0.002 |
| 25       | 5        | 1.204   | 1.202    | -0.002 |
| 20       | 6        | 1.203   | 1.201    | -0.002 |
| 20       | 7        | 1.204   | 1.203    | -0.001 |
| 20       | 8        | 1.206   | 1.204    | -0.002 |
| 20       | 9        | 1.201   | 1.200    | -0.001 |
| 20       | 10       | 1.204   | 1.202    | -0.002 |
| 20       | 11       | 1.204   | 1.203    | -0.001 |
| 20       | 12       | 1.204   | 1.204    | -0.001 |
| 20       | 13       | 1.206   | 1.203    | -0.003 |
| 20       | 14       | 1.203   | 1.201    | -0.002 |
| 20       | 15       | 1.205   | 1.204    | -0.002 |
| 20       | 16       | 1.203   | 1.201    | -0.002 |
| 20       | 17       | 1.206   | 1.203    | -0.003 |
| 20       | 18       | 1.207   | 1.207    | -0.001 |
| 20       | 19       | 1.205   | 1.203    | -0.002 |
| 20       | 20       | 1.204   | 1.202    | -0.002 |
| 20       | 21       | 1.204   | 1.202    | -0.002 |
| 20       | 22       | 1.204   | 1.202    | -0.002 |
| 20       | 23       | 1.204   | 1.204    | 0.000  |
| 20       | 24       | 1.204   | 1.203    | -0.001 |
| 20       | 25       | 1.204   | 1.202    | -0.002 |
| 20       | 26       | 1.206   | 1.204    | -0.002 |
| 20       | 27       | 1.204   | 1.204    | -0.001 |
| 35       | 28       | 1.203   | 1.202    | -0.001 |
| 35       | 29       | 1.202   | 1.200    | -0.002 |
| 35       | 30       | 1.204   | 1.201    | -0.003 |
| 35       | 31       | 1.202   | 1.200    | -0.002 |
| 35       | 32       | 1.203   | 1.200    | -0.003 |
| 30       | 33       | 1.207   | 1.204    | -0.003 |
| 30       | 34       | 1.202   | 1.199    | -0.003 |
| 30       | 35       | 1.204   | 1.204    | -0.001 |
| 30       | 36       | 1.204   | 1.201    | -0.002 |
| 30       | 37       | 1.204   | 1.203    | -0.002 |
| Max      |          | 1.207   | 1.207    | 0.000  |
| Average  |          | 1.204   | 1.202    | -0.002 |
| Min      |          | 1.201   | 1.199    | -0.003 |
| Std Dev  |          | 0.001   | 0.002    | 0.001  |



| 30.4_EN_PREC_UP |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| Test Site       |       |       |       |       |
| Tester          |       |       |       |       |
| Test Number     |       |       |       |       |
| Max Limit       | 1.25  | V     |       |       |
| Min Limit       | 1.184 | V     |       |       |
| kRad(Si)        | 20    | 25    | 30    | 35    |
| LL              | 1.184 | 1.184 | 1.184 | 1.184 |
| Min             | 1.200 | 1.200 | 1.199 | 1.200 |
| Average         | 1.203 | 1.202 | 1.202 | 1.201 |
| Max             | 1.207 | 1.204 | 1.204 | 1.202 |
| UL              | 1.250 | 1.250 | 1.250 | 1.250 |

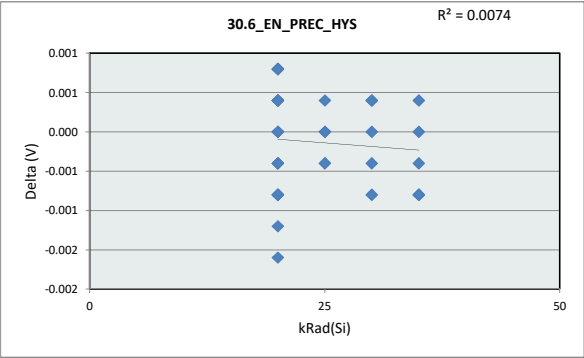


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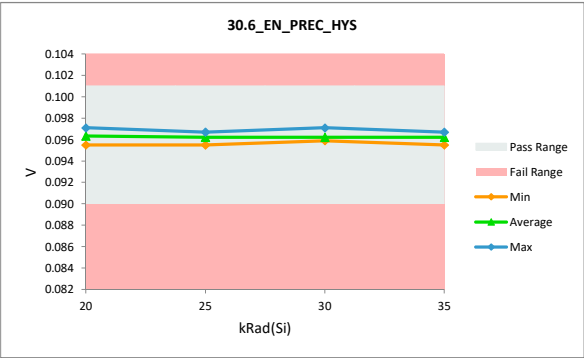
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 30.6_EN_PREC_HYS |       |       |
|------------------|-------|-------|
| Test Site        |       |       |
| Tester           |       |       |
| Test Number      |       |       |
| Unit             | V     | V     |
| Max Limit        | 0.101 | 0.101 |
| Min Limit        | 0.09  | 0.09  |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.097   | 0.096    | 0.000  |
| 25       | 2        | 0.096   | 0.097    | 0.000  |
| 25       | 3        | 0.096   | 0.096    | 0.000  |
| 25       | 4        | 0.096   | 0.096    | 0.000  |
| 25       | 5        | 0.096   | 0.095    | 0.000  |
| 20       | 6        | 0.096   | 0.097    | 0.001  |
| 20       | 7        | 0.096   | 0.096    | 0.000  |
| 20       | 8        | 0.097   | 0.096    | -0.001 |
| 20       | 9        | 0.096   | 0.096    | 0.000  |
| 20       | 10       | 0.095   | 0.095    | 0.000  |
| 20       | 11       | 0.097   | 0.096    | -0.001 |
| 20       | 12       | 0.097   | 0.096    | -0.001 |
| 20       | 13       | 0.097   | 0.096    | -0.001 |
| 20       | 14       | 0.096   | 0.096    | 0.000  |
| 20       | 15       | 0.097   | 0.097    | 0.000  |
| 20       | 16       | 0.096   | 0.096    | 0.000  |
| 20       | 17       | 0.097   | 0.096    | -0.001 |
| 20       | 18       | 0.096   | 0.097    | 0.000  |
| 20       | 19       | 0.096   | 0.096    | 0.000  |
| 20       | 20       | 0.097   | 0.095    | -0.002 |
| 20       | 21       | 0.096   | 0.097    | 0.001  |
| 20       | 22       | 0.096   | 0.097    | 0.001  |
| 20       | 23       | 0.097   | 0.097    | 0.000  |
| 20       | 24       | 0.096   | 0.096    | 0.000  |
| 20       | 25       | 0.096   | 0.097    | 0.001  |
| 20       | 26       | 0.096   | 0.095    | 0.000  |
| 20       | 27       | 0.097   | 0.097    | 0.000  |
| 35       | 28       | 0.096   | 0.097    | 0.000  |
| 35       | 29       | 0.097   | 0.096    | 0.000  |
| 35       | 30       | 0.097   | 0.096    | -0.001 |
| 35       | 31       | 0.097   | 0.097    | 0.000  |
| 35       | 32       | 0.096   | 0.095    | -0.001 |
| 30       | 33       | 0.097   | 0.096    | -0.001 |
| 30       | 34       | 0.097   | 0.097    | 0.000  |
| 30       | 35       | 0.095   | 0.096    | 0.000  |
| 30       | 36       | 0.096   | 0.096    | 0.000  |
| 30       | 37       | 0.097   | 0.096    | 0.000  |
|          | Max      | 0.097   | 0.097    | 0.001  |
|          | Average  | 0.096   | 0.096    | 0.000  |
|          | Min      | 0.095   | 0.095    | -0.002 |
|          | Std Dev  | 0.000   | 0.000    | 0.001  |



| 30.6_EN_PREC_HYS |       |       |       |       |
|------------------|-------|-------|-------|-------|
| Test Site        |       |       |       |       |
| Tester           |       |       |       |       |
| Test Number      |       |       |       |       |
| Max Limit        | 0.101 | V     |       |       |
| Min Limit        | 0.09  | V     |       |       |
| kRad(Si)         | 20    | 25    | 30    | 35    |
| LL               | 0.090 | 0.090 | 0.090 | 0.090 |
| Min              | 0.096 | 0.096 | 0.096 | 0.096 |
| Average          | 0.096 | 0.096 | 0.096 | 0.096 |
| Max              | 0.097 | 0.097 | 0.097 | 0.097 |
| UL               | 0.101 | 0.101 | 0.101 | 0.101 |



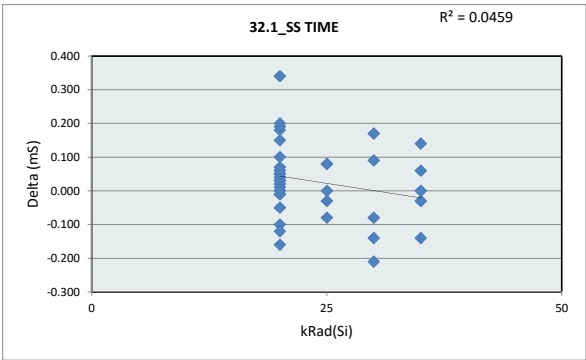


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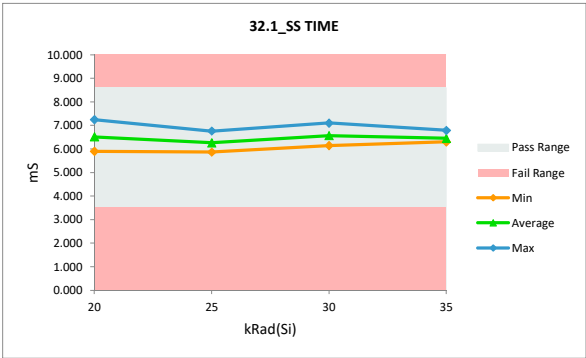
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.1_SS TIME |     |     |
|--------------|-----|-----|
| Test Site    |     |     |
| Tester       |     |     |
| Test Number  |     |     |
| Unit         | mS  | mS  |
| Max Limit    | 8.6 | 8.6 |
| Min Limit    | 3.5 | 3.5 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 6.350   | 6.430    | 0.080  |
| 25       | 2        | 5.950   | 6.030    | 0.080  |
| 25       | 3        | 6.230   | 6.200    | -0.030 |
| 25       | 4        | 5.950   | 5.870    | -0.080 |
| 25       | 5        | 6.760   | 6.760    | 0.000  |
| 20       | 6        | 7.260   | 7.100    | -0.160 |
| 20       | 7        | 6.290   | 6.280    | -0.010 |
| 20       | 8        | 6.470   | 6.500    | 0.030  |
| 20       | 9        | 7.250   | 7.240    | -0.010 |
| 20       | 10       | 6.330   | 6.230    | -0.100 |
| 20       | 11       | 5.930   | 5.970    | 0.040  |
| 20       | 12       | 6.370   | 6.390    | 0.020  |
| 20       | 13       | 6.250   | 6.450    | 0.200  |
| 20       | 14       | 5.850   | 5.900    | 0.050  |
| 20       | 15       | 7.030   | 7.100    | 0.070  |
| 20       | 16       | 6.630   | 6.580    | -0.050 |
| 20       | 17       | 6.370   | 6.380    | 0.010  |
| 20       | 18       | 6.340   | 6.220    | -0.120 |
| 20       | 19       | 6.540   | 6.690    | 0.150  |
| 20       | 20       | 6.360   | 6.540    | 0.180  |
| 20       | 21       | 6.510   | 6.540    | 0.030  |
| 20       | 22       | 6.630   | 6.730    | 0.100  |
| 20       | 23       | 6.350   | 6.400    | 0.050  |
| 20       | 24       | 5.900   | 6.240    | 0.340  |
| 20       | 25       | 6.690   | 6.690    | 0.000  |
| 20       | 26       | 6.630   | 6.820    | 0.190  |
| 20       | 27       | 6.280   | 6.340    | 0.060  |
| 35       | 28       | 6.440   | 6.300    | -0.140 |
| 35       | 29       | 6.650   | 6.790    | 0.140  |
| 35       | 30       | 6.470   | 6.470    | 0.000  |
| 35       | 31       | 6.240   | 6.300    | 0.060  |
| 35       | 32       | 6.410   | 6.380    | -0.030 |
| 30       | 33       | 6.510   | 6.300    | -0.210 |
| 30       | 34       | 7.010   | 7.100    | 0.090  |
| 30       | 35       | 6.320   | 6.490    | 0.170  |
| 30       | 36       | 6.220   | 6.140    | -0.080 |
| 30       | 37       | 6.940   | 6.800    | -0.140 |
| Max      |          | 7.260   | 7.240    | 0.340  |
| Average  |          | 6.452   | 6.478    | 0.026  |
| Min      |          | 5.850   | 5.870    | -0.210 |
| Std Dev  |          | 0.344   | 0.335    | 0.114  |



| 32.1_SS TIME |       |       |       |       |
|--------------|-------|-------|-------|-------|
| Test Site    |       |       |       |       |
| Tester       |       |       |       |       |
| Test Number  |       |       |       |       |
| Max Limit    | 8.6   | mS    |       |       |
| Min Limit    | 3.5   | mS    |       |       |
| kRad(Si)     | 20    | 25    | 30    | 35    |
| LL           | 3.500 | 3.500 | 3.500 | 3.500 |
| Min          | 5.900 | 5.870 | 6.140 | 6.300 |
| Average      | 6.515 | 6.258 | 6.566 | 6.448 |
| Max          | 7.240 | 6.760 | 7.100 | 6.790 |
| UL           | 8.600 | 8.600 | 8.600 | 8.600 |

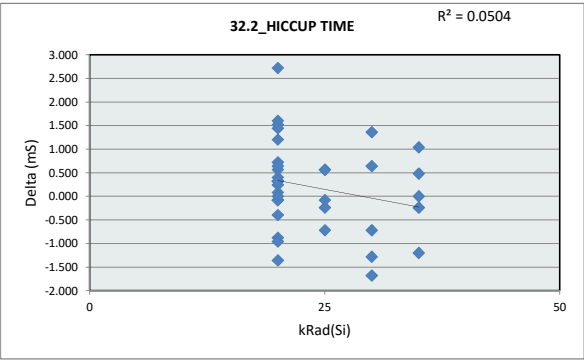


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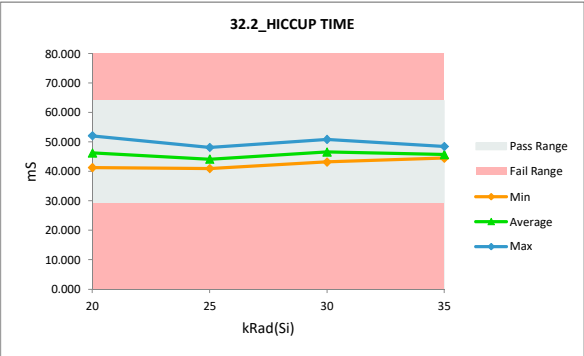
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.2_HICCUP TIME |    |    |
|------------------|----|----|
| Test Site        |    |    |
| Tester           |    |    |
| Test Number      |    |    |
| Unit             | mS | mS |
| Max Limit        | 64 | 64 |
| Min Limit        | 29 | 29 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 44.960  | 45.520   | 0.560  |
| 25       | 2        | 41.760  | 42.320   | 0.560  |
| 25       | 3        | 44.000  | 43.760   | -0.240 |
| 25       | 4        | 41.680  | 40.960   | -0.720 |
| 25       | 5        | 48.240  | 48.160   | -0.080 |
| 20       | 6        | 52.320  | 50.960   | -1.360 |
| 20       | 7        | 44.400  | 44.320   | -0.080 |
| 20       | 8        | 45.840  | 46.160   | 0.320  |
| 20       | 9        | 52.160  | 52.080   | -0.080 |
| 20       | 10       | 44.800  | 43.920   | -0.880 |
| 20       | 11       | 41.520  | 41.840   | 0.320  |
| 20       | 12       | 45.040  | 45.120   | 0.080  |
| 20       | 13       | 44.160  | 45.760   | 1.600  |
| 20       | 14       | 40.880  | 41.280   | 0.400  |
| 20       | 15       | 50.400  | 50.960   | 0.560  |
| 20       | 16       | 47.120  | 46.720   | -0.400 |
| 20       | 17       | 45.200  | 45.120   | -0.080 |
| 20       | 18       | 44.720  | 43.760   | -0.960 |
| 20       | 19       | 46.480  | 47.680   | 1.200  |
| 20       | 20       | 44.880  | 46.400   | 1.520  |
| 20       | 21       | 46.160  | 46.400   | 0.240  |
| 20       | 22       | 47.280  | 48.000   | 0.720  |
| 20       | 23       | 44.960  | 45.280   | 0.320  |
| 20       | 24       | 41.360  | 44.080   | 2.720  |
| 20       | 25       | 47.600  | 47.600   | 0.000  |
| 20       | 26       | 47.200  | 48.640   | 1.440  |
| 20       | 27       | 44.240  | 44.880   | 0.640  |
| 35       | 28       | 45.680  | 44.480   | -1.200 |
| 35       | 29       | 47.440  | 48.480   | 1.040  |
| 35       | 30       | 45.920  | 45.920   | 0.000  |
| 35       | 31       | 44.000  | 44.480   | 0.480  |
| 35       | 32       | 45.440  | 45.200   | -0.240 |
| 30       | 33       | 46.160  | 44.480   | -1.680 |
| 30       | 34       | 50.240  | 50.880   | 0.640  |
| 30       | 35       | 44.640  | 46.000   | 1.360  |
| 30       | 36       | 43.920  | 43.200   | -0.720 |
| 30       | 37       | 49.680  | 48.400   | -1.280 |
|          | Max      | 52.320  | 52.080   | 2.720  |
|          | Average  | 45.743  | 45.924   | 0.182  |
|          | Min      | 40.880  | 40.960   | -1.680 |
|          | Std Dev  | 2.773   | 2.698    | 0.933  |



| 32.2_HICCUP TIME |        |        |        |        |
|------------------|--------|--------|--------|--------|
| Test Site        |        |        |        |        |
| Tester           |        |        |        |        |
| Test Number      |        |        |        |        |
| Max Limit        | 64     | mS     |        |        |
| Min Limit        | 29     | mS     |        |        |
| kRad(Si)         | 20     | 25     | 30     | 35     |
| LL               | 29.000 | 29.000 | 29.000 | 29.000 |
| Min              | 41.280 | 40.960 | 43.200 | 44.480 |
| Average          | 46.225 | 44.144 | 46.592 | 45.712 |
| Max              | 52.080 | 48.160 | 50.880 | 48.480 |
| UL               | 64.000 | 64.000 | 64.000 | 64.000 |

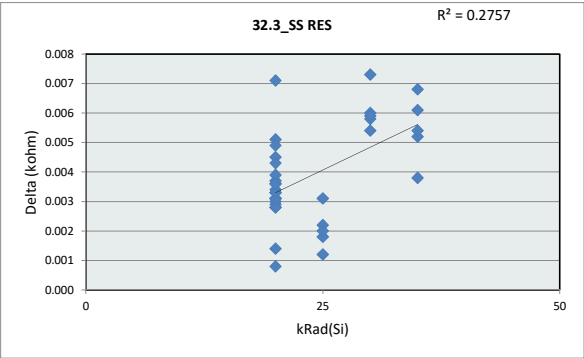


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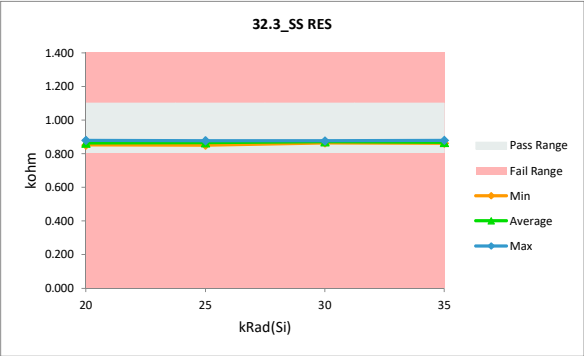
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.3_SS RES |      |      |
|-------------|------|------|
| Test Site   |      |      |
| Tester      |      |      |
| Test Number |      |      |
| Unit        | kohm | kohm |
| Max Limit   | 1.1  | 1.1  |
| Min Limit   | 0.8  | 0.8  |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta |
|----------|----------|---------|----------|-------|
| 25       | 1        | 0.858   | 0.861    | 0.003 |
| 25       | 2        | 0.875   | 0.877    | 0.002 |
| 25       | 3        | 0.850   | 0.851    | 0.001 |
| 25       | 4        | 0.863   | 0.865    | 0.002 |
| 25       | 5        | 0.868   | 0.870    | 0.002 |
| 20       | 6        | 0.865   | 0.869    | 0.004 |
| 20       | 7        | 0.862   | 0.865    | 0.004 |
| 20       | 8        | 0.871   | 0.874    | 0.004 |
| 20       | 9        | 0.854   | 0.857    | 0.003 |
| 20       | 10       | 0.860   | 0.863    | 0.004 |
| 20       | 11       | 0.857   | 0.860    | 0.003 |
| 20       | 12       | 0.874   | 0.879    | 0.005 |
| 20       | 13       | 0.855   | 0.855    | 0.001 |
| 20       | 14       | 0.857   | 0.861    | 0.003 |
| 20       | 15       | 0.869   | 0.872    | 0.003 |
| 20       | 16       | 0.850   | 0.851    | 0.001 |
| 20       | 17       | 0.850   | 0.852    | 0.003 |
| 20       | 18       | 0.865   | 0.868    | 0.003 |
| 20       | 19       | 0.871   | 0.874    | 0.003 |
| 20       | 20       | 0.869   | 0.872    | 0.003 |
| 20       | 21       | 0.866   | 0.873    | 0.007 |
| 20       | 22       | 0.849   | 0.853    | 0.004 |
| 20       | 23       | 0.859   | 0.863    | 0.004 |
| 20       | 24       | 0.856   | 0.861    | 0.005 |
| 20       | 25       | 0.852   | 0.855    | 0.003 |
| 20       | 26       | 0.854   | 0.857    | 0.003 |
| 20       | 27       | 0.864   | 0.868    | 0.004 |
| 35       | 28       | 0.874   | 0.880    | 0.005 |
| 35       | 29       | 0.857   | 0.862    | 0.005 |
| 35       | 30       | 0.861   | 0.865    | 0.004 |
| 35       | 31       | 0.856   | 0.862    | 0.007 |
| 35       | 32       | 0.862   | 0.868    | 0.006 |
| 30       | 33       | 0.869   | 0.875    | 0.006 |
| 30       | 34       | 0.871   | 0.876    | 0.006 |
| 30       | 35       | 0.862   | 0.869    | 0.007 |
| 30       | 36       | 0.859   | 0.864    | 0.005 |
| 30       | 37       | 0.864   | 0.870    | 0.006 |
|          | Max      | 0.875   | 0.880    | 0.007 |
|          | Average  | 0.861   | 0.865    | 0.004 |
|          | Min      | 0.849   | 0.851    | 0.001 |
|          | Std Dev  | 0.007   | 0.008    | 0.002 |



| 32.3_SS RES |       |       |       |       |
|-------------|-------|-------|-------|-------|
| Test Site   |       |       |       |       |
| Tester      |       |       |       |       |
| Test Number |       |       |       |       |
| Max Limit   | 1.1   | kohm  |       |       |
| Min Limit   | 0.8   | kohm  |       |       |
| kRad(Si)    | 20    | 25    | 30    | 35    |
| LL          | 0.800 | 0.800 | 0.800 | 0.800 |
| Min         | 0.851 | 0.851 | 0.864 | 0.862 |
| Average     | 0.864 | 0.865 | 0.871 | 0.867 |
| Max         | 0.879 | 0.877 | 0.876 | 0.880 |
| UL          | 1.100 | 1.100 | 1.100 | 1.100 |

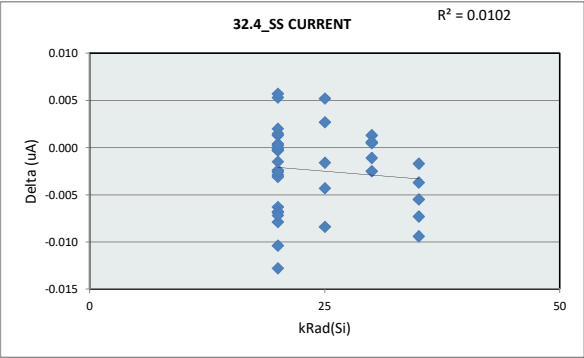


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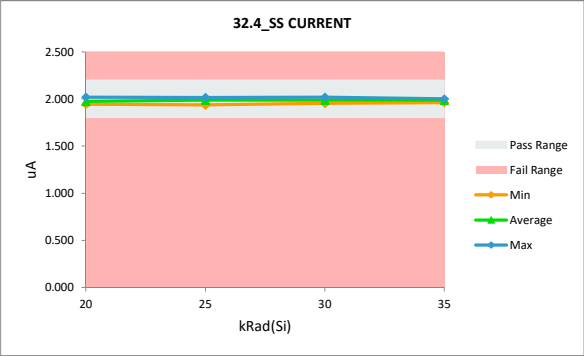
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.4_SS CURRENT |     |     |
|-----------------|-----|-----|
| Test Site       |     |     |
| Tester          |     |     |
| Test Number     |     |     |
| Unit            | uA  | uA  |
| Max Limit       | 2.2 | 2.2 |
| Min Limit       | 1.8 | 1.8 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.946   | 1.938    | -0.008 |
| 25       | 2        | 2.016   | 2.014    | -0.002 |
| 25       | 3        | 2.014   | 2.016    | 0.003  |
| 25       | 4        | 1.985   | 1.981    | -0.004 |
| 25       | 5        | 1.987   | 1.993    | 0.005  |
| 20       | 6        | 1.948   | 1.945    | -0.003 |
| 20       | 7        | 1.957   | 1.950    | -0.006 |
| 20       | 8        | 1.967   | 1.960    | -0.007 |
| 20       | 9        | 1.962   | 1.960    | -0.002 |
| 20       | 10       | 1.998   | 1.998    | 0.000  |
| 20       | 11       | 1.969   | 1.969    | 0.000  |
| 20       | 12       | 1.953   | 1.953    | 0.000  |
| 20       | 13       | 1.953   | 1.946    | -0.007 |
| 20       | 14       | 2.000   | 2.001    | 0.001  |
| 20       | 15       | 1.976   | 1.973    | -0.003 |
| 20       | 16       | 1.954   | 1.946    | -0.008 |
| 20       | 17       | 2.018   | 2.019    | 0.001  |
| 20       | 18       | 2.016   | 2.021    | 0.005  |
| 20       | 19       | 1.992   | 1.994    | 0.002  |
| 20       | 20       | 1.967   | 1.965    | -0.002 |
| 20       | 21       | 1.952   | 1.958    | 0.006  |
| 20       | 22       | 2.013   | 2.006    | -0.007 |
| 20       | 23       | 1.968   | 1.968    | 0.000  |
| 20       | 24       | 2.020   | 2.009    | -0.010 |
| 20       | 25       | 1.949   | 1.949    | 0.000  |
| 20       | 26       | 2.015   | 2.002    | -0.013 |
| 20       | 27       | 1.949   | 1.947    | -0.003 |
| 35       | 28       | 1.970   | 1.961    | -0.009 |
| 35       | 29       | 1.993   | 1.986    | -0.007 |
| 35       | 30       | 1.990   | 1.987    | -0.004 |
| 35       | 31       | 2.007   | 2.002    | -0.005 |
| 35       | 32       | 2.004   | 2.003    | -0.002 |
| 30       | 33       | 2.017   | 2.018    | 0.001  |
| 30       | 34       | 2.021   | 2.020    | -0.001 |
| 30       | 35       | 1.956   | 1.954    | -0.003 |
| 30       | 36       | 2.001   | 2.002    | 0.001  |
| 30       | 37       | 1.958   | 1.958    | 0.001  |
| Max      |          | 2.021   | 2.021    | 0.006  |
| Average  |          | 1.983   | 1.980    | -0.002 |
| Min      |          | 1.946   | 1.938    | -0.013 |
| Std Dev  |          | 0.026   | 0.027    | 0.004  |



| 32.4_SS CURRENT |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| Test Site       |       |       |       |       |
| Tester          |       |       |       |       |
| Test Number     |       |       |       |       |
| Max Limit       | 2.2   | uA    |       |       |
| Min Limit       | 1.8   | uA    |       |       |
| kRad(Si)        | 20    | 25    | 30    | 35    |
| LL              | 1.800 | 1.800 | 1.800 | 1.800 |
| Min             | 1.945 | 1.938 | 1.954 | 1.961 |
| Average         | 1.975 | 1.988 | 1.990 | 1.988 |
| Max             | 2.021 | 2.016 | 2.020 | 2.003 |
| UL              | 2.200 | 2.200 | 2.200 | 2.200 |



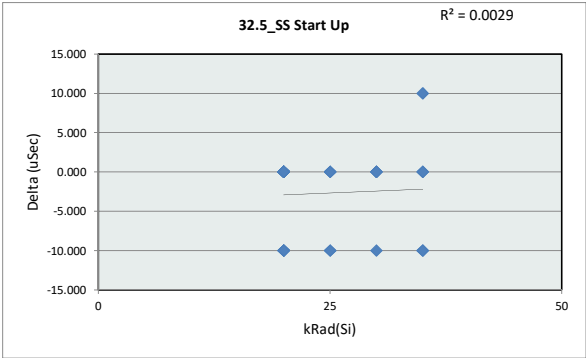
# LDR TID Report

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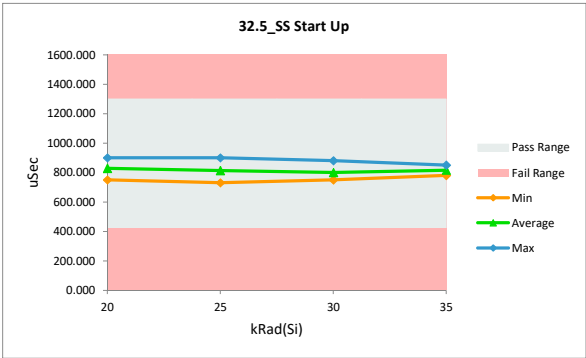
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 32.5_SS Start Up |      |      |
|------------------|------|------|
| Test Site        |      |      |
| Tester           |      |      |
| Test Number      |      |      |
| Unit             | uSec | uSec |
| Max Limit        | 1300 | 1300 |
| Min Limit        | 420  | 420  |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta   |
|----------|----------|---------|----------|---------|
| 25       | 1        | 830.000 | 830.000  | 0.000   |
| 25       | 2        | 740.000 | 730.000  | -10.000 |
| 25       | 3        | 900.000 | 900.000  | 0.000   |
| 25       | 4        | 830.000 | 830.000  | 0.000   |
| 25       | 5        | 790.000 | 780.000  | -10.000 |
| 20       | 6        | 780.000 | 770.000  | -10.000 |
| 20       | 7        | 870.000 | 870.000  | 0.000   |
| 20       | 8        | 800.000 | 800.000  | 0.000   |
| 20       | 9        | 880.000 | 880.000  | 0.000   |
| 20       | 10       | 870.000 | 860.000  | -10.000 |
| 20       | 11       | 790.000 | 790.000  | 0.000   |
| 20       | 12       | 900.000 | 900.000  | 0.000   |
| 20       | 13       | 810.000 | 810.000  | 0.000   |
| 20       | 14       | 840.000 | 830.000  | -10.000 |
| 20       | 15       | 800.000 | 800.000  | 0.000   |
| 20       | 16       | 830.000 | 820.000  | -10.000 |
| 20       | 17       | 750.000 | 750.000  | 0.000   |
| 20       | 18       | 890.000 | 890.000  | 0.000   |
| 20       | 19       | 780.000 | 780.000  | 0.000   |
| 20       | 20       | 820.000 | 820.000  | 0.000   |
| 20       | 21       | 840.000 | 840.000  | 0.000   |
| 20       | 22       | 790.000 | 780.000  | -10.000 |
| 20       | 23       | 810.000 | 810.000  | 0.000   |
| 20       | 24       | 840.000 | 840.000  | 0.000   |
| 20       | 25       | 870.000 | 870.000  | 0.000   |
| 20       | 26       | 830.000 | 820.000  | -10.000 |
| 20       | 27       | 870.000 | 870.000  | 0.000   |
| 35       | 28       | 810.000 | 800.000  | -10.000 |
| 35       | 29       | 820.000 | 820.000  | 0.000   |
| 35       | 30       | 790.000 | 780.000  | -10.000 |
| 35       | 31       | 820.000 | 830.000  | 10.000  |
| 35       | 32       | 850.000 | 850.000  | 0.000   |
| 30       | 33       | 750.000 | 750.000  | 0.000   |
| 30       | 34       | 790.000 | 780.000  | -10.000 |
| 30       | 35       | 880.000 | 880.000  | 0.000   |
| 30       | 36       | 810.000 | 810.000  | 0.000   |
| 30       | 37       | 780.000 | 780.000  | 0.000   |
| Max      |          | 900.000 | 900.000  | 10.000  |
| Average  |          | 822.973 | 820.270  | -2.703  |
| Min      |          | 740.000 | 730.000  | -10.000 |
| Std Dev  |          | 42.089  | 43.620   | 5.082   |



| 32.5_SS Start Up |          |          |          |          |
|------------------|----------|----------|----------|----------|
| Test Site        |          |          |          |          |
| Tester           |          |          |          |          |
| Test Number      |          |          |          |          |
| Max Limit        | 1300     | uSec     |          |          |
| Min Limit        | 420      | uSec     |          |          |
| kRad(Si)         | 20       | 25       | 30       | 35       |
| LL               | 420.000  | 420.000  | 420.000  | 420.000  |
| Min              | 750.000  | 730.000  | 750.000  | 780.000  |
| Average          | 827.273  | 814.000  | 800.000  | 816.000  |
| Max              | 900.000  | 900.000  | 880.000  | 850.000  |
| UL               | 1300.000 | 1300.000 | 1300.000 | 1300.000 |

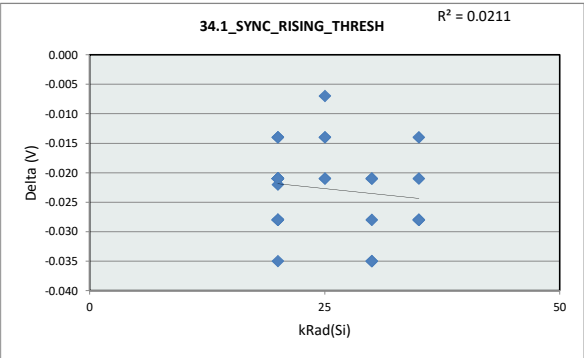


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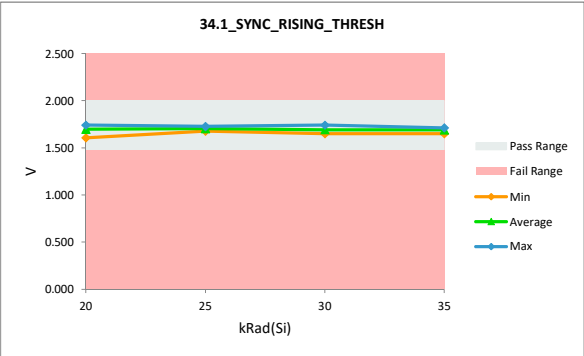
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.1_SYNC_RISING_THRESH |      |      |
|-------------------------|------|------|
| Test Site               |      |      |
| Tester                  |      |      |
| Test Number             |      |      |
| Unit                    | V    | V    |
| Max Limit               | 2    | 2    |
| Min Limit               | 1.47 | 1.47 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.726   | 1.712    | -0.014 |
| 25       | 2        | 1.691   | 1.677    | -0.014 |
| 25       | 3        | 1.726   | 1.705    | -0.021 |
| 25       | 4        | 1.705   | 1.698    | -0.007 |
| 25       | 5        | 1.747   | 1.726    | -0.021 |
| 20       | 6        | 1.712   | 1.691    | -0.021 |
| 20       | 7        | 1.719   | 1.691    | -0.028 |
| 20       | 8        | 1.712   | 1.698    | -0.014 |
| 20       | 9        | 1.740   | 1.719    | -0.021 |
| 20       | 10       | 1.705   | 1.684    | -0.021 |
| 20       | 11       | 1.719   | 1.698    | -0.021 |
| 20       | 12       | 1.628   | 1.606    | -0.022 |
| 20       | 13       | 1.761   | 1.740    | -0.021 |
| 20       | 14       | 1.712   | 1.691    | -0.021 |
| 20       | 15       | 1.747   | 1.719    | -0.028 |
| 20       | 16       | 1.719   | 1.705    | -0.014 |
| 20       | 17       | 1.712   | 1.684    | -0.028 |
| 20       | 18       | 1.712   | 1.691    | -0.021 |
| 20       | 19       | 1.733   | 1.712    | -0.021 |
| 20       | 20       | 1.726   | 1.698    | -0.028 |
| 20       | 21       | 1.740   | 1.712    | -0.028 |
| 20       | 22       | 1.733   | 1.712    | -0.021 |
| 20       | 23       | 1.712   | 1.691    | -0.021 |
| 20       | 24       | 1.705   | 1.684    | -0.021 |
| 20       | 25       | 1.726   | 1.712    | -0.014 |
| 20       | 26       | 1.719   | 1.691    | -0.028 |
| 20       | 27       | 1.733   | 1.698    | -0.035 |
| 35       | 28       | 1.726   | 1.712    | -0.014 |
| 35       | 29       | 1.733   | 1.705    | -0.028 |
| 35       | 30       | 1.698   | 1.670    | -0.028 |
| 35       | 31       | 1.677   | 1.649    | -0.028 |
| 35       | 32       | 1.733   | 1.712    | -0.021 |
| 30       | 33       | 1.761   | 1.740    | -0.021 |
| 30       | 34       | 1.726   | 1.705    | -0.021 |
| 30       | 35       | 1.684   | 1.649    | -0.035 |
| 30       | 36       | 1.705   | 1.677    | -0.028 |
| 30       | 37       | 1.719   | 1.684    | -0.035 |
|          | Max      | 1.761   | 1.740    | -0.007 |
|          | Average  | 1.718   | 1.696    | -0.023 |
|          | Min      | 1.628   | 1.606    | -0.035 |
|          | Std Dev  | 0.024   | 0.025    | 0.006  |



| 34.1_SYNC_RISING_THRESH |       |       |       |       |
|-------------------------|-------|-------|-------|-------|
| Test Site               |       |       |       |       |
| Tester                  |       |       |       |       |
| Test Number             |       |       |       |       |
| Max Limit               | 2     | V     |       |       |
| Min Limit               | 1.47  | V     |       |       |
| kRad(Si)                | 20    | 25    | 30    | 35    |
| LL                      | 1.470 | 1.470 | 1.470 | 1.470 |
| Min                     | 1.606 | 1.677 | 1.649 | 1.649 |
| Average                 | 1.697 | 1.704 | 1.691 | 1.690 |
| Max                     | 1.740 | 1.726 | 1.740 | 1.712 |
| UL                      | 2.000 | 2.000 | 2.000 | 2.000 |

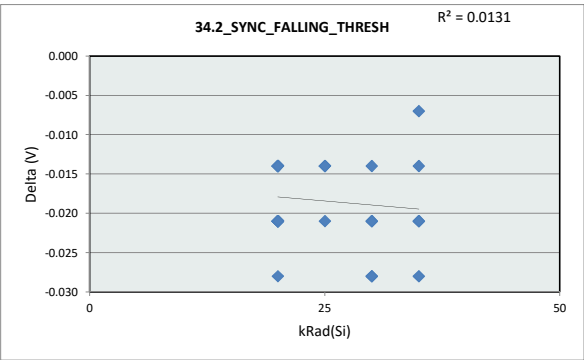


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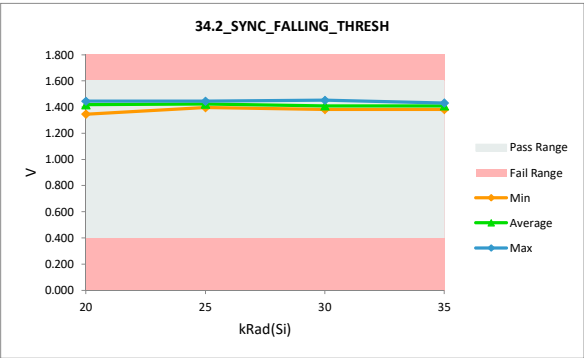
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.2_SYNC_FALLING_THRESH |     |     |
|--------------------------|-----|-----|
| Test Site                |     |     |
| Tester                   |     |     |
| Test Number              |     |     |
| Unit                     | V   | V   |
| Max Limit                | 1.6 | 1.6 |
| Min Limit                | 0.4 | 0.4 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.452   | 1.438    | -0.014 |
| 25       | 2        | 1.410   | 1.396    | -0.014 |
| 25       | 3        | 1.438   | 1.417    | -0.021 |
| 25       | 4        | 1.431   | 1.417    | -0.014 |
| 25       | 5        | 1.459   | 1.445    | -0.014 |
| 20       | 6        | 1.431   | 1.410    | -0.021 |
| 20       | 7        | 1.431   | 1.410    | -0.021 |
| 20       | 8        | 1.431   | 1.417    | -0.014 |
| 20       | 9        | 1.459   | 1.445    | -0.014 |
| 20       | 10       | 1.431   | 1.410    | -0.021 |
| 20       | 11       | 1.431   | 1.417    | -0.014 |
| 20       | 12       | 1.367   | 1.346    | -0.021 |
| 20       | 13       | 1.466   | 1.445    | -0.021 |
| 20       | 14       | 1.431   | 1.410    | -0.021 |
| 20       | 15       | 1.452   | 1.438    | -0.014 |
| 20       | 16       | 1.438   | 1.424    | -0.014 |
| 20       | 17       | 1.424   | 1.403    | -0.021 |
| 20       | 18       | 1.431   | 1.417    | -0.014 |
| 20       | 19       | 1.445   | 1.424    | -0.021 |
| 20       | 20       | 1.438   | 1.424    | -0.014 |
| 20       | 21       | 1.452   | 1.431    | -0.021 |
| 20       | 22       | 1.445   | 1.431    | -0.014 |
| 20       | 23       | 1.431   | 1.410    | -0.021 |
| 20       | 24       | 1.431   | 1.410    | -0.021 |
| 20       | 25       | 1.445   | 1.431    | -0.014 |
| 20       | 26       | 1.431   | 1.417    | -0.014 |
| 20       | 27       | 1.445   | 1.417    | -0.028 |
| 35       | 28       | 1.431   | 1.424    | -0.007 |
| 35       | 29       | 1.445   | 1.417    | -0.028 |
| 35       | 30       | 1.417   | 1.396    | -0.021 |
| 35       | 31       | 1.403   | 1.382    | -0.021 |
| 35       | 32       | 1.445   | 1.431    | -0.014 |
| 30       | 33       | 1.473   | 1.452    | -0.021 |
| 30       | 34       | 1.431   | 1.417    | -0.014 |
| 30       | 35       | 1.403   | 1.382    | -0.021 |
| 30       | 36       | 1.424   | 1.396    | -0.028 |
| 30       | 37       | 1.431   | 1.403    | -0.028 |
| Max      |          | 1.473   | 1.452    | -0.007 |
| Average  |          | 1.435   | 1.416    | -0.018 |
| Min      |          | 1.367   | 1.346    | -0.028 |
| Std Dev  |          | 0.019   | 0.020    | 0.005  |



| 34.2_SYNC_FALLING_THRESH |       |       |       |       |
|--------------------------|-------|-------|-------|-------|
| Test Site                |       |       |       |       |
| Tester                   |       |       |       |       |
| Test Number              |       |       |       |       |
| Max Limit                | 1.6   | V     |       |       |
| Min Limit                | 0.4   | V     |       |       |
| kRad(Si)                 | 20    | 25    | 30    | 35    |
| LL                       | 0.400 | 0.400 | 0.400 | 0.400 |
| Min                      | 1.346 | 1.396 | 1.382 | 1.382 |
| Average                  | 1.418 | 1.423 | 1.410 | 1.410 |
| Max                      | 1.445 | 1.445 | 1.452 | 1.431 |
| UL                       | 1.600 | 1.600 | 1.600 | 1.600 |



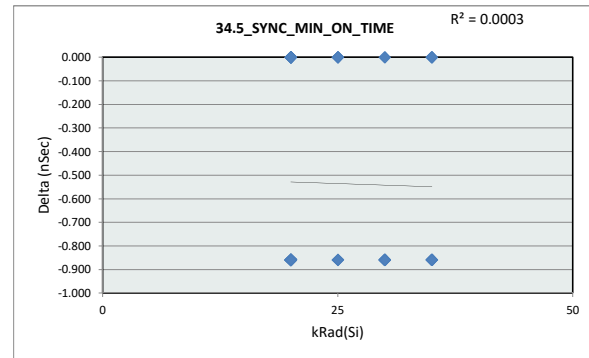
# LDR TID Report

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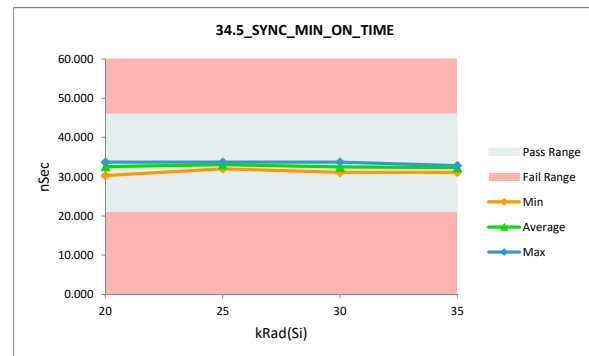
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.5_SYNC_MIN_ON_TIME |      |      |
|-----------------------|------|------|
| Test Site             |      |      |
| Tester                |      |      |
| Test Number           |      |      |
| Unit                  | nSec | nSec |
| Max Limit             | 46   | 46   |
| Min Limit             | 21   | 21   |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 33.711  | 33.711   | 0.000  |
| 25       | 2        | 32.852  | 31.992   | -0.860 |
| 25       | 3        | 32.852  | 32.852   | 0.000  |
| 25       | 4        | 32.852  | 32.852   | 0.000  |
| 25       | 5        | 34.570  | 33.711   | -0.859 |
| 20       | 6        | 32.852  | 31.992   | -0.860 |
| 20       | 7        | 32.852  | 31.992   | -0.860 |
| 20       | 8        | 32.852  | 32.852   | 0.000  |
| 20       | 9        | 33.711  | 33.711   | 0.000  |
| 20       | 10       | 32.852  | 31.992   | -0.860 |
| 20       | 11       | 32.852  | 32.852   | 0.000  |
| 20       | 12       | 30.273  | 30.273   | 0.000  |
| 20       | 13       | 34.570  | 33.711   | -0.859 |
| 20       | 14       | 32.852  | 31.992   | -0.860 |
| 20       | 15       | 34.570  | 33.711   | -0.859 |
| 20       | 16       | 32.852  | 32.852   | 0.000  |
| 20       | 17       | 32.852  | 31.992   | -0.860 |
| 20       | 18       | 32.852  | 32.852   | 0.000  |
| 20       | 19       | 33.711  | 33.711   | 0.000  |
| 20       | 20       | 33.711  | 32.852   | -0.859 |
| 20       | 21       | 33.711  | 32.852   | -0.859 |
| 20       | 22       | 33.711  | 32.852   | -0.859 |
| 20       | 23       | 32.852  | 31.992   | -0.860 |
| 20       | 24       | 32.852  | 31.992   | -0.860 |
| 20       | 25       | 32.852  | 32.852   | 0.000  |
| 20       | 26       | 32.852  | 31.992   | -0.860 |
| 20       | 27       | 33.711  | 32.852   | -0.859 |
| 35       | 28       | 33.711  | 32.852   | -0.859 |
| 35       | 29       | 32.852  | 32.852   | 0.000  |
| 35       | 30       | 31.992  | 31.992   | 0.000  |
| 35       | 31       | 31.992  | 31.133   | -0.859 |
| 35       | 32       | 33.711  | 32.852   | -0.859 |
| 30       | 33       | 34.570  | 33.711   | -0.859 |
| 30       | 34       | 33.711  | 32.852   | -0.859 |
| 30       | 35       | 31.992  | 31.133   | -0.859 |
| 30       | 36       | 32.852  | 31.992   | -0.860 |
| 30       | 37       | 32.852  | 32.852   | 0.000  |
|          | Max      | 34.570  | 33.711   | 0.000  |
|          | Average  | 33.130  | 32.596   | -0.534 |
|          | Min      | 30.273  | 30.273   | -0.860 |
|          | Std Dev  | 0.836   | 0.807    | 0.423  |



|             |        | 34.5_SYNC_MIN_ON_TIME |        |        |  |
|-------------|--------|-----------------------|--------|--------|--|
| Test Site   |        |                       |        |        |  |
| Tester      |        |                       |        |        |  |
| Test Number |        |                       |        |        |  |
| Max Limit   | 46     | nSec                  |        |        |  |
| Min Limit   | 21     | nSec                  |        |        |  |
| kRad(Si)    | 20     | 25                    | 30     | 35     |  |
| LL          | 21.000 | 21.000                | 21.000 | 21.000 |  |
| Min         | 30.273 | 31.992                | 31.133 | 31.133 |  |
| Average     | 32.578 | 33.024                | 32.508 | 32.336 |  |
| Max         | 33.711 | 33.711                | 33.711 | 32.852 |  |
| UL          | 46.000 | 46.000                | 46.000 | 46.000 |  |





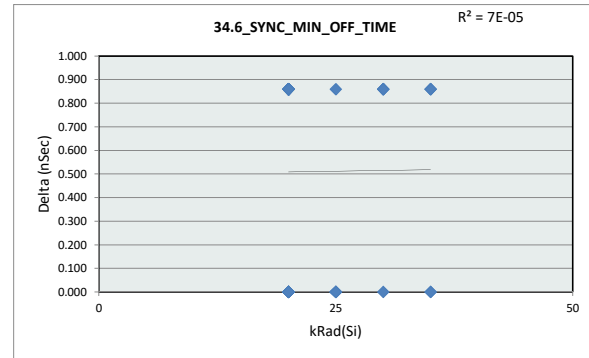
# LDR TID Report

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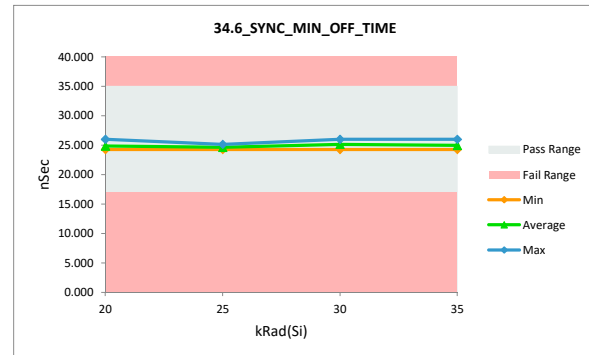
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

|             | 34.6_SYNC_MIN_OFF_TIME |      |
|-------------|------------------------|------|
| Test Site   |                        |      |
| Tester      |                        |      |
| Test Number |                        |      |
| Unit        | nSec                   | nSec |
| Max Limit   | 35                     | 35   |
| Min Limit   | 17                     | 17   |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta |
|----------|----------|---------|----------|-------|
| 25       | 1        | 24.258  | 24.258   | 0.000 |
| 25       | 2        | 25.117  | 25.117   | 0.000 |
| 25       | 3        | 24.258  | 24.258   | 0.000 |
| 25       | 4        | 24.258  | 25.117   | 0.859 |
| 25       | 5        | 24.258  | 24.258   | 0.000 |
| 20       | 6        | 24.258  | 25.117   | 0.859 |
| 20       | 7        | 24.258  | 24.258   | 0.000 |
| 20       | 8        | 24.258  | 25.117   | 0.859 |
| 20       | 9        | 24.258  | 24.258   | 0.000 |
| 20       | 10       | 24.258  | 25.117   | 0.859 |
| 20       | 11       | 24.258  | 25.117   | 0.859 |
| 20       | 12       | 25.977  | 25.977   | 0.000 |
| 20       | 13       | 23.398  | 24.258   | 0.860 |
| 20       | 14       | 24.258  | 25.117   | 0.859 |
| 20       | 15       | 24.258  | 24.258   | 0.000 |
| 20       | 16       | 24.258  | 24.258   | 0.000 |
| 20       | 17       | 24.258  | 25.117   | 0.859 |
| 20       | 18       | 24.258  | 25.117   | 0.859 |
| 20       | 19       | 24.258  | 25.117   | 0.859 |
| 20       | 20       | 24.258  | 25.117   | 0.859 |
| 20       | 21       | 24.258  | 24.258   | 0.000 |
| 20       | 22       | 24.258  | 24.258   | 0.000 |
| 20       | 23       | 24.258  | 25.117   | 0.859 |
| 20       | 24       | 24.258  | 25.117   | 0.859 |
| 20       | 25       | 24.258  | 24.258   | 0.000 |
| 20       | 26       | 24.258  | 25.117   | 0.859 |
| 20       | 27       | 24.258  | 25.117   | 0.859 |
| 35       | 28       | 24.258  | 24.258   | 0.000 |
| 35       | 29       | 24.258  | 24.258   | 0.000 |
| 35       | 30       | 24.258  | 25.117   | 0.859 |
| 35       | 31       | 25.117  | 25.977   | 0.860 |
| 35       | 32       | 24.258  | 25.117   | 0.859 |
| 30       | 33       | 24.258  | 24.258   | 0.000 |
| 30       | 34       | 24.258  | 25.117   | 0.859 |
| 30       | 35       | 25.117  | 25.977   | 0.860 |
| 30       | 36       | 24.258  | 25.117   | 0.859 |
| 30       | 37       | 24.258  | 25.117   | 0.859 |
|          | Max      | 25.977  | 25.977   | 0.860 |
|          | Average  | 24.351  | 24.862   | 0.511 |
|          | Min      | 23.398  | 24.258   | 0.000 |
|          | Std Dev  | 0.394   | 0.531    | 0.428 |



|             |        | 34.6_SYNC_MIN_OFF_TIME |        |        |  |
|-------------|--------|------------------------|--------|--------|--|
| Test Site   |        |                        |        |        |  |
| Tester      |        |                        |        |        |  |
| Test Number |        |                        |        |        |  |
| Max Limit   | 35     | nSec                   |        |        |  |
| Min Limit   | 17     | nSec                   |        |        |  |
| kRad(Si)    | 20     | 25                     | 30     | 35     |  |
| LL          | 17.000 | 17.000                 | 17.000 | 17.000 |  |
| Min         | 24.258 | 24.258                 | 24.258 | 24.258 |  |
| Average     | 24.844 | 24.602                 | 25.117 | 24.945 |  |
| Max         | 25.977 | 25.117                 | 25.977 | 25.977 |  |
| UL          | 35.000 | 35.000                 | 35.000 | 35.000 |  |



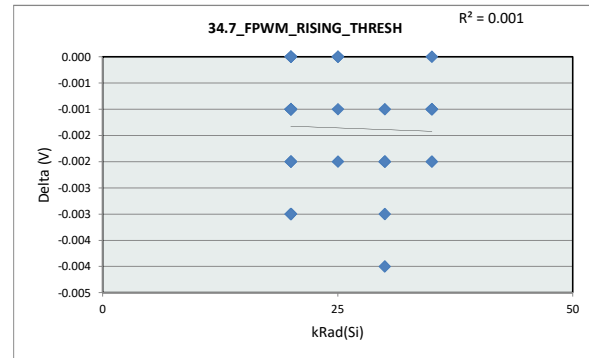
# LDR TID Report

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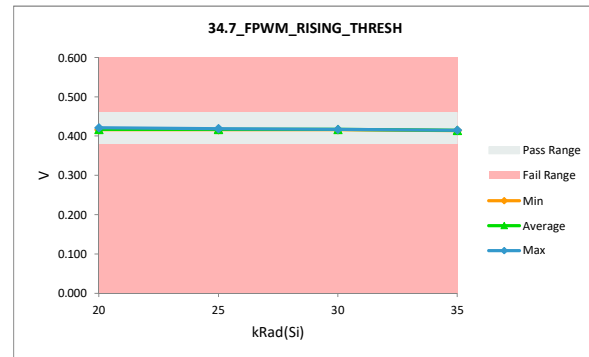
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.7_FPWM_RISING_THRESH |      |      |
|-------------------------|------|------|
| Test Site               |      |      |
| Tester                  |      |      |
| Test Number             |      |      |
| Unit                    | V    | V    |
| Max Limit               | 0.46 | 0.46 |
| Min Limit               | 0.38 | 0.38 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.416   | 0.416    | 0.000  |
| 25       | 2        | 0.419   | 0.419    | 0.000  |
| 25       | 3        | 0.419   | 0.417    | -0.002 |
| 25       | 4        | 0.420   | 0.419    | -0.001 |
| 25       | 5        | 0.416   | 0.416    | 0.000  |
| 20       | 6        | 0.417   | 0.416    | -0.001 |
| 20       | 7        | 0.421   | 0.420    | -0.001 |
| 20       | 8        | 0.419   | 0.417    | -0.002 |
| 20       | 9        | 0.420   | 0.417    | -0.003 |
| 20       | 10       | 0.417   | 0.417    | 0.000  |
| 20       | 11       | 0.416   | 0.416    | 0.000  |
| 20       | 12       | 0.420   | 0.417    | -0.003 |
| 20       | 13       | 0.420   | 0.419    | -0.001 |
| 20       | 14       | 0.417   | 0.416    | -0.001 |
| 20       | 15       | 0.420   | 0.419    | -0.001 |
| 20       | 16       | 0.417   | 0.416    | -0.001 |
| 20       | 17       | 0.419   | 0.417    | -0.002 |
| 20       | 18       | 0.422   | 0.421    | -0.001 |
| 20       | 19       | 0.419   | 0.416    | -0.003 |
| 20       | 20       | 0.417   | 0.416    | -0.001 |
| 20       | 21       | 0.419   | 0.416    | -0.003 |
| 20       | 22       | 0.419   | 0.419    | 0.000  |
| 20       | 23       | 0.420   | 0.420    | 0.000  |
| 20       | 24       | 0.417   | 0.417    | 0.000  |
| 20       | 25       | 0.419   | 0.416    | -0.003 |
| 20       | 26       | 0.417   | 0.416    | -0.001 |
| 20       | 27       | 0.419   | 0.417    | -0.002 |
| 35       | 28       | 0.415   | 0.415    | 0.000  |
| 35       | 29       | 0.415   | 0.414    | -0.001 |
| 35       | 30       | 0.415   | 0.414    | -0.001 |
| 35       | 31       | 0.416   | 0.415    | -0.001 |
| 35       | 32       | 0.417   | 0.415    | -0.002 |
| 30       | 33       | 0.421   | 0.417    | -0.004 |
| 30       | 34       | 0.419   | 0.417    | -0.002 |
| 30       | 35       | 0.419   | 0.417    | -0.002 |
| 30       | 36       | 0.420   | 0.417    | -0.003 |
| 30       | 37       | 0.417   | 0.416    | -0.001 |
|          | Max      | 0.422   | 0.421    | 0.000  |
|          | Average  | 0.418   | 0.417    | -0.001 |
|          | Min      | 0.415   | 0.414    | -0.004 |
|          | Std Dev  | 0.002   | 0.002    | 0.001  |



| 34.7_FPWM_RISING_THRESH |       |       |       |       |
|-------------------------|-------|-------|-------|-------|
| Test Site               |       |       |       |       |
| Tester                  |       |       |       |       |
| Test Number             |       |       |       |       |
| Max Limit               | 0.46  | V     |       |       |
| Min Limit               | 0.38  | V     |       |       |
| kRad(Si)                | 20    | 25    | 30    | 35    |
| LL                      | 0.380 | 0.380 | 0.380 | 0.380 |
| Min                     | 0.416 | 0.416 | 0.416 | 0.414 |
| Average                 | 0.417 | 0.417 | 0.417 | 0.415 |
| Max                     | 0.421 | 0.419 | 0.417 | 0.415 |
| UL                      | 0.460 | 0.460 | 0.460 | 0.460 |

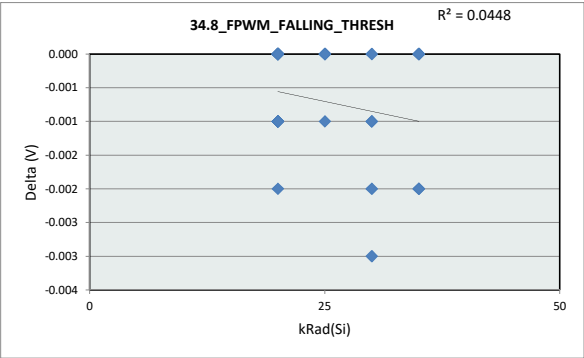


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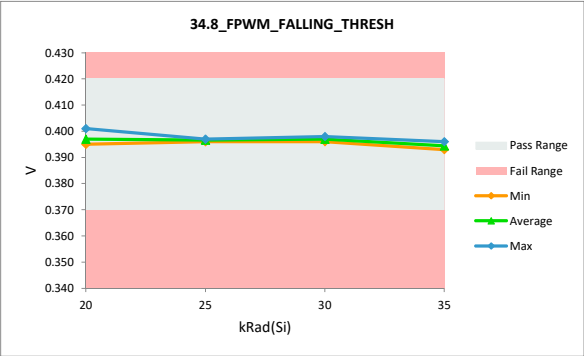
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 34.8_FPWM_FALLING_THRESH |      |      |
|--------------------------|------|------|
| Test Site                |      |      |
| Tester                   |      |      |
| Test Number              |      |      |
| Unit                     | V    | V    |
| Max Limit                | 0.42 | 0.42 |
| Min Limit                | 0.37 | 0.37 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.396   | 0.396    | 0.000  |
| 25       | 2        | 0.397   | 0.397    | 0.000  |
| 25       | 3        | 0.397   | 0.397    | 0.000  |
| 25       | 4        | 0.398   | 0.397    | -0.001 |
| 25       | 5        | 0.396   | 0.396    | 0.000  |
| 20       | 6        | 0.397   | 0.396    | -0.001 |
| 20       | 7        | 0.398   | 0.398    | 0.000  |
| 20       | 8        | 0.398   | 0.397    | -0.001 |
| 20       | 9        | 0.398   | 0.397    | -0.001 |
| 20       | 10       | 0.397   | 0.397    | 0.000  |
| 20       | 11       | 0.396   | 0.396    | 0.000  |
| 20       | 12       | 0.396   | 0.396    | 0.000  |
| 20       | 13       | 0.399   | 0.398    | -0.001 |
| 20       | 14       | 0.397   | 0.396    | -0.001 |
| 20       | 15       | 0.398   | 0.398    | 0.000  |
| 20       | 16       | 0.397   | 0.396    | -0.001 |
| 20       | 17       | 0.398   | 0.397    | -0.001 |
| 20       | 18       | 0.401   | 0.401    | 0.000  |
| 20       | 19       | 0.397   | 0.396    | -0.001 |
| 20       | 20       | 0.397   | 0.396    | -0.001 |
| 20       | 21       | 0.396   | 0.395    | -0.001 |
| 20       | 22       | 0.398   | 0.398    | 0.000  |
| 20       | 23       | 0.399   | 0.398    | -0.001 |
| 20       | 24       | 0.397   | 0.397    | 0.000  |
| 20       | 25       | 0.398   | 0.396    | -0.002 |
| 20       | 26       | 0.397   | 0.397    | 0.000  |
| 20       | 27       | 0.397   | 0.397    | 0.000  |
| 35       | 28       | 0.395   | 0.395    | 0.000  |
| 35       | 29       | 0.395   | 0.393    | -0.002 |
| 35       | 30       | 0.395   | 0.393    | -0.002 |
| 35       | 31       | 0.395   | 0.395    | 0.000  |
| 35       | 32       | 0.396   | 0.396    | 0.000  |
| 30       | 33       | 0.401   | 0.398    | -0.003 |
| 30       | 34       | 0.398   | 0.397    | -0.001 |
| 30       | 35       | 0.397   | 0.397    | 0.000  |
| 30       | 36       | 0.399   | 0.397    | -0.002 |
| 30       | 37       | 0.397   | 0.396    | -0.001 |
| Max      |          | 0.401   | 0.401    | 0.000  |
| Average  |          | 0.397   | 0.397    | -0.001 |
| Min      |          | 0.395   | 0.393    | -0.003 |
| Std Dev  |          | 0.001   | 0.001    | 0.001  |



| 34.8_FPWM_FALLING_THRESH |       |       |       |       |
|--------------------------|-------|-------|-------|-------|
| Test Site                |       |       |       |       |
| Tester                   |       |       |       |       |
| Test Number              |       |       |       |       |
| Max Limit                | 0.42  | V     |       |       |
| Min Limit                | 0.37  | V     |       |       |
| kRad(Si)                 | 20    | 25    | 30    | 35    |
| LL                       | 0.370 | 0.370 | 0.370 | 0.370 |
| Min                      | 0.395 | 0.396 | 0.396 | 0.393 |
| Average                  | 0.397 | 0.397 | 0.397 | 0.394 |
| Max                      | 0.401 | 0.397 | 0.398 | 0.396 |
| UL                       | 0.420 | 0.420 | 0.420 | 0.420 |

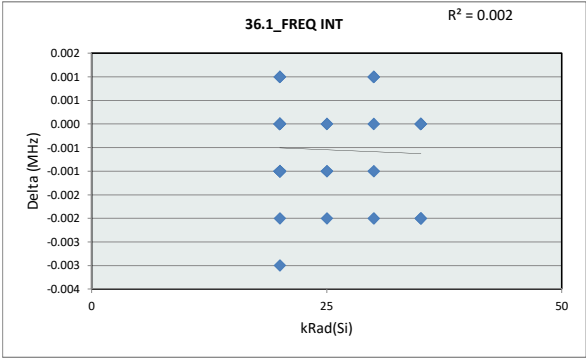


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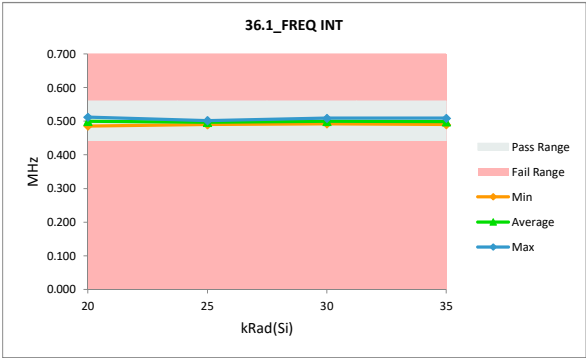
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.1_FREQ INT |      |      |
|---------------|------|------|
| Test Site     |      |      |
| Tester        |      |      |
| Test Number   |      |      |
| Unit          | MHz  | MHz  |
| Max Limit     | 0.56 | 0.56 |
| Min Limit     | 0.44 | 0.44 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.491   | 0.491    | 0.000  |
| 25       | 2        | 0.504   | 0.502    | -0.002 |
| 25       | 3        | 0.498   | 0.498    | 0.000  |
| 25       | 4        | 0.503   | 0.502    | -0.001 |
| 25       | 5        | 0.491   | 0.490    | -0.001 |
| 20       | 6        | 0.502   | 0.501    | -0.001 |
| 20       | 7        | 0.489   | 0.488    | -0.001 |
| 20       | 8        | 0.504   | 0.505    | 0.001  |
| 20       | 9        | 0.506   | 0.507    | 0.001  |
| 20       | 10       | 0.502   | 0.502    | 0.000  |
| 20       | 11       | 0.504   | 0.501    | -0.003 |
| 20       | 12       | 0.496   | 0.496    | 0.000  |
| 20       | 13       | 0.498   | 0.498    | 0.000  |
| 20       | 14       | 0.507   | 0.506    | -0.001 |
| 20       | 15       | 0.504   | 0.503    | -0.001 |
| 20       | 16       | 0.501   | 0.500    | -0.001 |
| 20       | 17       | 0.506   | 0.505    | -0.001 |
| 20       | 18       | 0.497   | 0.495    | -0.002 |
| 20       | 19       | 0.493   | 0.493    | 0.000  |
| 20       | 20       | 0.511   | 0.512    | 0.001  |
| 20       | 21       | 0.510   | 0.510    | 0.000  |
| 20       | 22       | 0.492   | 0.492    | 0.000  |
| 20       | 23       | 0.503   | 0.502    | -0.001 |
| 20       | 24       | 0.499   | 0.498    | -0.001 |
| 20       | 25       | 0.486   | 0.486    | 0.000  |
| 20       | 26       | 0.499   | 0.498    | -0.001 |
| 20       | 27       | 0.503   | 0.503    | 0.000  |
| 35       | 28       | 0.509   | 0.509    | 0.000  |
| 35       | 29       | 0.507   | 0.505    | -0.002 |
| 35       | 30       | 0.493   | 0.491    | -0.002 |
| 35       | 31       | 0.498   | 0.498    | 0.000  |
| 35       | 32       | 0.490   | 0.490    | 0.000  |
| 30       | 33       | 0.508   | 0.509    | 0.001  |
| 30       | 34       | 0.493   | 0.492    | -0.001 |
| 30       | 35       | 0.504   | 0.502    | -0.002 |
| 30       | 36       | 0.501   | 0.502    | 0.001  |
| 30       | 37       | 0.492   | 0.492    | 0.000  |
| Max      |          | 0.511   | 0.512    | 0.001  |
| Average  |          | 0.500   | 0.499    | -0.001 |
| Min      |          | 0.486   | 0.486    | -0.003 |
| Std Dev  |          | 0.007   | 0.007    | 0.001  |



| 36.1_FREQ INT |       |       |       |       |
|---------------|-------|-------|-------|-------|
| Test Site     |       |       |       |       |
| Tester        |       |       |       |       |
| Test Number   |       |       |       |       |
| Max Limit     | 0.56  | MHz   |       |       |
| Min Limit     | 0.44  | MHz   |       |       |
| kRad(Si)      | 20    | 25    | 30    | 35    |
| LL            | 0.440 | 0.440 | 0.440 | 0.440 |
| Min           | 0.486 | 0.490 | 0.492 | 0.490 |
| Average       | 0.500 | 0.497 | 0.499 | 0.499 |
| Max           | 0.512 | 0.502 | 0.509 | 0.509 |
| UL            | 0.560 | 0.560 | 0.560 | 0.560 |

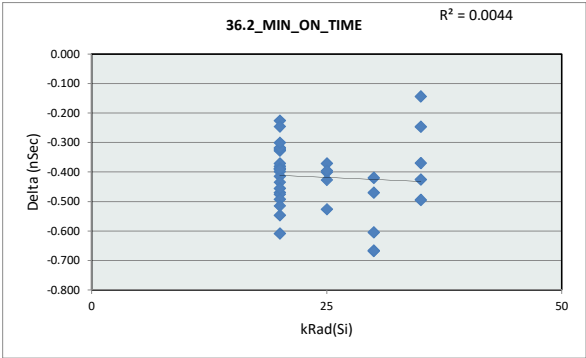


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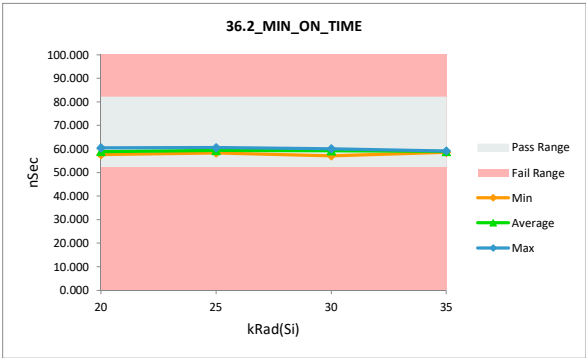
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.2_MIN_ON_TIME |      |      |
|------------------|------|------|
| Test Site        |      |      |
| Tester           |      |      |
| Test Number      |      |      |
| Unit             | nSec | nSec |
| Max Limit        | 82   | 82   |
| Min Limit        | 52   | 52   |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 59.208  | 58.781   | -0.427 |
| 25       | 2        | 60.908  | 60.537   | -0.371 |
| 25       | 3        | 58.743  | 58.342   | -0.401 |
| 25       | 4        | 60.320  | 59.793   | -0.527 |
| 25       | 5        | 60.108  | 59.712   | -0.396 |
| 20       | 6        | 60.042  | 59.661   | -0.381 |
| 20       | 7        | 58.177  | 57.630   | -0.547 |
| 20       | 8        | 59.537  | 59.067   | -0.470 |
| 20       | 9        | 58.871  | 58.482   | -0.389 |
| 20       | 10       | 59.465  | 59.094   | -0.371 |
| 20       | 11       | 59.504  | 59.176   | -0.328 |
| 20       | 12       | 58.458  | 58.138   | -0.320 |
| 20       | 13       | 60.482  | 60.083   | -0.399 |
| 20       | 14       | 59.063  | 58.675   | -0.388 |
| 20       | 15       | 60.964  | 60.488   | -0.476 |
| 20       | 16       | 60.138  | 59.723   | -0.415 |
| 20       | 17       | 59.053  | 58.618   | -0.435 |
| 20       | 18       | 59.031  | 58.422   | -0.609 |
| 20       | 19       | 60.481  | 60.157   | -0.324 |
| 20       | 20       | 59.591  | 59.365   | -0.226 |
| 20       | 21       | 58.145  | 57.899   | -0.246 |
| 20       | 22       | 59.112  | 58.619   | -0.493 |
| 20       | 23       | 59.095  | 58.580   | -0.515 |
| 20       | 24       | 58.614  | 58.296   | -0.318 |
| 20       | 25       | 59.119  | 58.663   | -0.456 |
| 20       | 26       | 58.820  | 58.519   | -0.301 |
| 20       | 27       | 58.950  | 58.558   | -0.392 |
| 35       | 28       | 59.534  | 59.039   | -0.495 |
| 35       | 29       | 59.307  | 58.881   | -0.426 |
| 35       | 30       | 58.842  | 58.595   | -0.247 |
| 35       | 31       | 59.000  | 58.856   | -0.144 |
| 35       | 32       | 59.544  | 59.174   | -0.370 |
| 30       | 33       | 60.233  | 59.813   | -0.420 |
| 30       | 34       | 59.826  | 59.221   | -0.605 |
| 30       | 35       | 57.771  | 57.104   | -0.667 |
| 30       | 36       | 60.710  | 60.042   | -0.668 |
| 30       | 37       | 60.277  | 59.807   | -0.470 |
| Max      |          | 60.964  | 60.537   | -0.144 |
| Average  |          | 59.434  | 59.016   | -0.417 |
| Min      |          | 57.771  | 57.104   | -0.668 |
| Std Dev  |          | 0.789   | 0.784    | 0.117  |



| 36.2_MIN_ON_TIME |        |        |        |        |
|------------------|--------|--------|--------|--------|
| Test Site        |        |        |        |        |
| Tester           |        |        |        |        |
| Test Number      |        |        |        |        |
| Max Limit        | 82     | nSec   |        |        |
| Min Limit        | 52     | nSec   |        |        |
| kRad(Si)         | 20     | 25     | 30     | 35     |
| LL               | 52.000 | 52.000 | 52.000 | 52.000 |
| Min              | 57.630 | 58.342 | 57.104 | 58.595 |
| Average          | 58.905 | 59.433 | 59.197 | 58.909 |
| Max              | 60.488 | 60.537 | 60.042 | 59.174 |
| UL               | 82.000 | 82.000 | 82.000 | 82.000 |

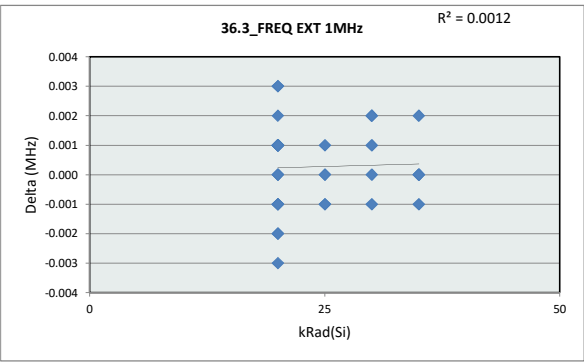


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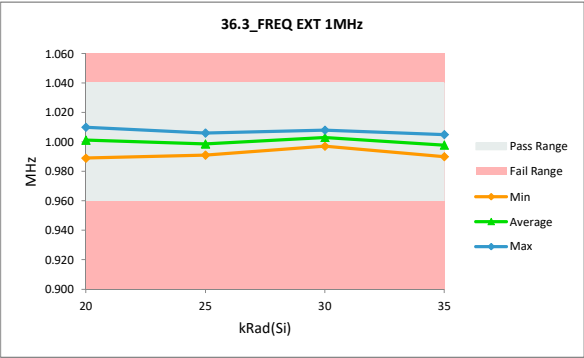
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.3_FREQ EXT 1MHz |      |      |
|--------------------|------|------|
| Test Site          |      |      |
| Tester             |      |      |
| Test Number        |      |      |
| Unit               | MHz  | MHz  |
| Max Limit          | 1.04 | 1.04 |
| Min Limit          | 0.96 | 0.96 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.993   | 0.994    | 0.001  |
| 25       | 2        | 1.007   | 1.006    | -0.001 |
| 25       | 3        | 1.003   | 1.003    | 0.000  |
| 25       | 4        | 0.991   | 0.991    | 0.000  |
| 25       | 5        | 1.000   | 0.999    | -0.001 |
| 20       | 6        | 0.989   | 0.990    | 0.001  |
| 20       | 7        | 1.002   | 1.003    | 0.001  |
| 20       | 8        | 1.006   | 1.009    | 0.003  |
| 20       | 9        | 1.005   | 1.006    | 0.001  |
| 20       | 10       | 1.004   | 1.004    | 0.000  |
| 20       | 11       | 0.992   | 0.989    | -0.003 |
| 20       | 12       | 1.009   | 1.010    | 0.001  |
| 20       | 13       | 1.007   | 1.007    | 0.000  |
| 20       | 14       | 1.010   | 1.008    | -0.002 |
| 20       | 15       | 1.006   | 1.007    | 0.001  |
| 20       | 16       | 0.993   | 0.991    | -0.002 |
| 20       | 17       | 0.997   | 0.997    | 0.000  |
| 20       | 18       | 0.997   | 0.996    | -0.001 |
| 20       | 19       | 1.001   | 1.004    | 0.003  |
| 20       | 20       | 1.003   | 1.004    | 0.001  |
| 20       | 21       | 1.001   | 1.002    | 0.001  |
| 20       | 22       | 0.995   | 0.997    | 0.002  |
| 20       | 23       | 0.994   | 0.993    | -0.001 |
| 20       | 24       | 1.003   | 1.002    | -0.001 |
| 20       | 25       | 1.005   | 1.006    | 0.001  |
| 20       | 26       | 0.995   | 0.994    | -0.001 |
| 20       | 27       | 1.006   | 1.007    | 0.001  |
| 35       | 28       | 1.005   | 1.005    | 0.000  |
| 35       | 29       | 1.005   | 1.005    | 0.000  |
| 35       | 30       | 0.992   | 0.991    | -0.001 |
| 35       | 31       | 0.996   | 0.998    | 0.002  |
| 35       | 32       | 0.990   | 0.990    | 0.000  |
| 30       | 33       | 1.006   | 1.008    | 0.002  |
| 30       | 34       | 0.997   | 0.997    | 0.000  |
| 30       | 35       | 1.004   | 1.003    | -0.001 |
| 30       | 36       | 0.997   | 0.999    | 0.002  |
| 30       | 37       | 1.007   | 1.008    | 0.001  |
| Max      |          | 1.010   | 1.010    | 0.003  |
| Average  |          | 1.000   | 1.001    | 0.000  |
| Min      |          | 0.989   | 0.989    | -0.003 |
| Std Dev  |          | 0.006   | 0.006    | 0.001  |



| 36.3_FREQ EXT 1MHz |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| Test Site          |       |       |       |       |
| Tester             |       |       |       |       |
| Test Number        |       |       |       |       |
| Max Limit          | 1.04  | MHz   |       |       |
| Min Limit          | 0.96  | MHz   |       |       |
| kRad(Si)           | 20    | 25    | 30    | 35    |
| LL                 | 0.960 | 0.960 | 0.960 | 0.960 |
| Min                | 0.989 | 0.991 | 0.997 | 0.990 |
| Average            | 1.001 | 0.999 | 1.003 | 0.998 |
| Max                | 1.010 | 1.006 | 1.008 | 1.005 |
| UL                 | 1.040 | 1.040 | 1.040 | 1.040 |

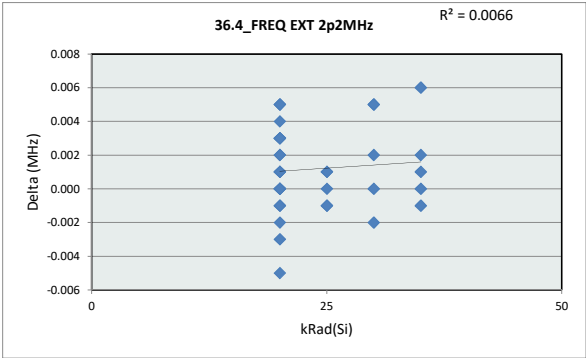


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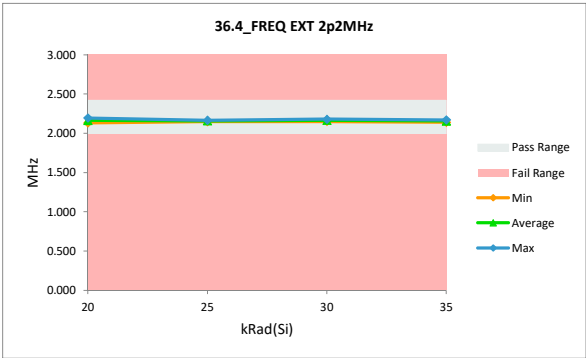
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.4_FREQ EXT 2p2MHz |      |      |
|----------------------|------|------|
| Test Site            |      |      |
| Tester               |      |      |
| Test Number          |      |      |
| Unit                 | MHz  | MHz  |
| Max Limit            | 2.42 | 2.42 |
| Min Limit            | 1.98 | 1.98 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 2.152   | 2.153    | 0.001  |
| 25       | 2        | 2.167   | 2.166    | -0.001 |
| 25       | 3        | 2.164   | 2.165    | 0.001  |
| 25       | 4        | 2.149   | 2.149    | 0.000  |
| 25       | 5        | 2.158   | 2.157    | -0.001 |
| 20       | 6        | 2.135   | 2.136    | 0.001  |
| 20       | 7        | 2.168   | 2.170    | 0.002  |
| 20       | 8        | 2.168   | 2.173    | 0.005  |
| 20       | 9        | 2.177   | 2.180    | 0.003  |
| 20       | 10       | 2.163   | 2.166    | 0.003  |
| 20       | 11       | 2.137   | 2.132    | -0.005 |
| 20       | 12       | 2.191   | 2.194    | 0.003  |
| 20       | 13       | 2.166   | 2.165    | -0.001 |
| 20       | 14       | 2.182   | 2.181    | -0.001 |
| 20       | 15       | 2.173   | 2.174    | 0.001  |
| 20       | 16       | 2.139   | 2.136    | -0.003 |
| 20       | 17       | 2.151   | 2.149    | -0.002 |
| 20       | 18       | 2.152   | 2.152    | 0.000  |
| 20       | 19       | 2.165   | 2.170    | 0.005  |
| 20       | 20       | 2.167   | 2.171    | 0.004  |
| 20       | 21       | 2.168   | 2.170    | 0.002  |
| 20       | 22       | 2.147   | 2.152    | 0.005  |
| 20       | 23       | 2.146   | 2.146    | 0.000  |
| 20       | 24       | 2.165   | 2.165    | 0.000  |
| 20       | 25       | 2.174   | 2.177    | 0.003  |
| 20       | 26       | 2.142   | 2.142    | 0.000  |
| 20       | 27       | 2.176   | 2.177    | 0.001  |
| 35       | 28       | 2.168   | 2.170    | 0.002  |
| 35       | 29       | 2.166   | 2.167    | 0.001  |
| 35       | 30       | 2.143   | 2.142    | -0.001 |
| 35       | 31       | 2.150   | 2.156    | 0.006  |
| 35       | 32       | 2.139   | 2.139    | 0.000  |
| 30       | 33       | 2.174   | 2.179    | 0.005  |
| 30       | 34       | 2.150   | 2.150    | 0.000  |
| 30       | 35       | 2.170   | 2.168    | -0.002 |
| 30       | 36       | 2.150   | 2.155    | 0.005  |
| 30       | 37       | 2.174   | 2.176    | 0.002  |
|          | Max      | 2.191   | 2.194    | 0.006  |
|          | Average  | 2.160   | 2.161    | 0.001  |
|          | Min      | 2.135   | 2.132    | -0.005 |
|          | Std Dev  | 0.014   | 0.015    | 0.003  |



| 36.4_FREQ EXT 2p2MHz |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Test Site            |       |       |       |       |
| Tester               |       |       |       |       |
| Test Number          |       |       |       |       |
| Max Limit            | 2.42  |       | MHz   |       |
| Min Limit            | 1.98  |       | MHz   |       |
| kRad(Si)             | 20    | 25    | 30    | 35    |
| LL                   | 1.980 | 1.980 | 1.980 | 1.980 |
| Min                  | 2.132 | 2.149 | 2.150 | 2.139 |
| Average              | 2.163 | 2.158 | 2.166 | 2.155 |
| Max                  | 2.194 | 2.166 | 2.179 | 2.170 |
| UL                   | 2.420 | 2.420 | 2.420 | 2.420 |

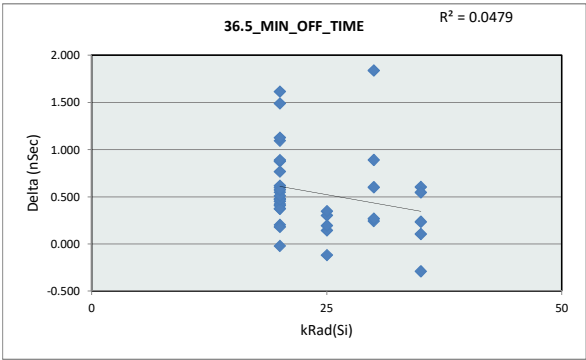


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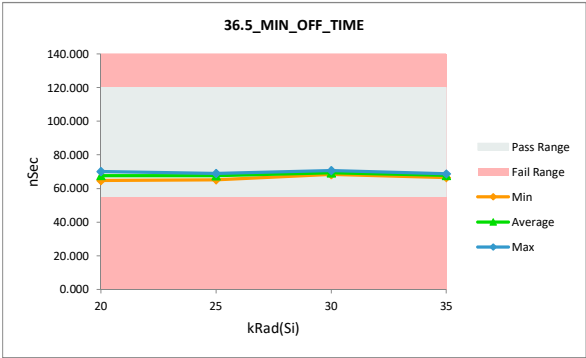
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.5_MIN_OFF_TIME |      |      |
|-------------------|------|------|
| Test Site         |      |      |
| Tester            |      |      |
| Test Number       |      |      |
| Unit              | nSec | nSec |
| Max Limit         | 120  | 120  |
| Min Limit         | 55   | 55   |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 67.711  | 67.592   | -0.119 |
| 25       | 2        | 68.712  | 69.015   | 0.303  |
| 25       | 3        | 64.874  | 65.222   | 0.348  |
| 25       | 4        | 66.962  | 67.105   | 0.143  |
| 25       | 5        | 68.690  | 68.884   | 0.194  |
| 20       | 6        | 68.578  | 68.949   | 0.371  |
| 20       | 7        | 64.306  | 64.729   | 0.423  |
| 20       | 8        | 69.105  | 69.083   | -0.022 |
| 20       | 9        | 67.417  | 67.869   | 0.452  |
| 20       | 10       | 66.155  | 66.703   | 0.548  |
| 20       | 11       | 69.324  | 69.733   | 0.409  |
| 20       | 12       | 64.109  | 64.985   | 0.876  |
| 20       | 13       | 68.273  | 68.753   | 0.480  |
| 20       | 14       | 66.103  | 66.869   | 0.766  |
| 20       | 15       | 68.988  | 70.082   | 1.094  |
| 20       | 16       | 67.440  | 68.038   | 0.598  |
| 20       | 17       | 67.916  | 68.533   | 0.617  |
| 20       | 18       | 66.978  | 67.181   | 0.203  |
| 20       | 19       | 68.533  | 68.908   | 0.375  |
| 20       | 20       | 66.445  | 68.060   | 1.615  |
| 20       | 21       | 64.899  | 65.370   | 0.471  |
| 20       | 22       | 67.774  | 67.954   | 0.180  |
| 20       | 23       | 66.651  | 68.140   | 1.489  |
| 20       | 24       | 66.164  | 67.052   | 0.888  |
| 20       | 25       | 67.962  | 68.472   | 0.510  |
| 20       | 26       | 66.044  | 66.618   | 0.574  |
| 20       | 27       | 66.462  | 67.589   | 1.127  |
| 35       | 28       | 68.634  | 68.344   | -0.290 |
| 35       | 29       | 68.479  | 68.714   | 0.235  |
| 35       | 30       | 65.858  | 66.461   | 0.603  |
| 35       | 31       | 68.231  | 68.777   | 0.546  |
| 35       | 32       | 66.780  | 66.886   | 0.106  |
| 30       | 33       | 68.217  | 68.460   | 0.243  |
| 30       | 34       | 69.292  | 69.559   | 0.267  |
| 30       | 35       | 67.459  | 68.349   | 0.890  |
| 30       | 36       | 70.087  | 70.689   | 0.602  |
| 30       | 37       | 67.709  | 69.548   | 1.839  |
| Max      |          | 70.087  | 70.689   | 1.839  |
| Average  |          | 67.387  | 67.926   | 0.539  |
| Min      |          | 64.109  | 64.729   | -0.290 |
| Std Dev  |          | 1.461   | 1.416    | 0.454  |



| 36.5_MIN_OFF_TIME |         |         |         |         |
|-------------------|---------|---------|---------|---------|
| Test Site         |         |         |         |         |
| Tester            |         |         |         |         |
| Test Number       |         |         |         |         |
| Max Limit         | 120     | nSec    |         |         |
| Min Limit         | 55      | nSec    |         |         |
| kRad(Si)          | 20      | 25      | 30      | 35      |
| LL                | 55.000  | 55.000  | 55.000  | 55.000  |
| Min               | 64.729  | 65.222  | 68.349  | 66.461  |
| Average           | 67.712  | 67.564  | 69.321  | 67.836  |
| Max               | 70.082  | 69.015  | 70.689  | 68.777  |
| UL                | 120.000 | 120.000 | 120.000 | 120.000 |



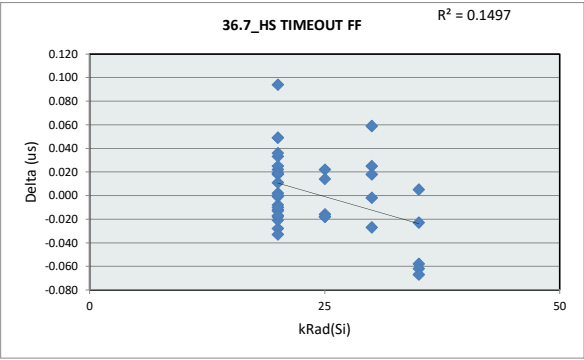


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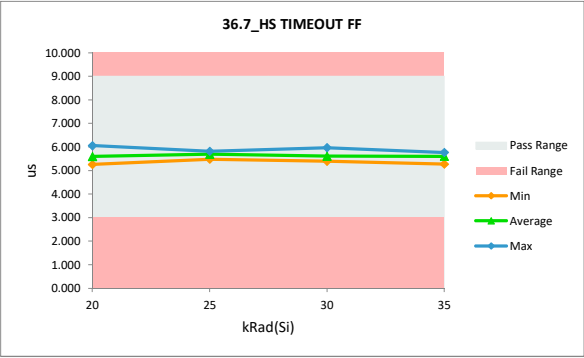
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.7_HS TIMEOUT FF |    |    |
|--------------------|----|----|
| Test Site          |    |    |
| Tester             |    |    |
| Test Number        |    |    |
| Unit               | us | us |
| Max Limit          | 9  | 9  |
| Min Limit          | 3  | 3  |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 5.499   | 5.481    | -0.018 |
| 25       | 2        | 5.821   | 5.805    | -0.016 |
| 25       | 3        | 5.833   | 5.815    | -0.018 |
| 25       | 4        | 5.646   | 5.660    | 0.014  |
| 25       | 5        | 5.675   | 5.697    | 0.022  |
| 20       | 6        | 5.445   | 5.417    | -0.028 |
| 20       | 7        | 5.598   | 5.616    | 0.018  |
| 20       | 8        | 5.723   | 5.772    | 0.049  |
| 20       | 9        | 6.072   | 6.054    | -0.018 |
| 20       | 10       | 5.255   | 5.254    | -0.001 |
| 20       | 11       | 5.416   | 5.418    | 0.002  |
| 20       | 12       | 5.727   | 5.715    | -0.012 |
| 20       | 13       | 5.480   | 5.502    | 0.022  |
| 20       | 14       | 5.385   | 5.479    | 0.094  |
| 20       | 15       | 5.393   | 5.372    | -0.021 |
| 20       | 16       | 5.675   | 5.700    | 0.025  |
| 20       | 17       | 5.365   | 5.398    | 0.033  |
| 20       | 18       | 5.709   | 5.676    | -0.033 |
| 20       | 19       | 5.798   | 5.790    | -0.008 |
| 20       | 20       | 5.590   | 5.590    | 0.000  |
| 20       | 21       | 5.839   | 5.826    | -0.013 |
| 20       | 22       | 5.721   | 5.711    | -0.010 |
| 20       | 23       | 5.481   | 5.492    | 0.011  |
| 20       | 24       | 5.606   | 5.589    | -0.017 |
| 20       | 25       | 5.600   | 5.619    | 0.019  |
| 20       | 26       | 5.530   | 5.566    | 0.036  |
| 20       | 27       | 5.465   | 5.514    | 0.049  |
| 35       | 28       | 5.683   | 5.688    | 0.005  |
| 35       | 29       | 5.799   | 5.741    | -0.058 |
| 35       | 30       | 5.830   | 5.768    | -0.062 |
| 35       | 31       | 5.334   | 5.267    | -0.067 |
| 35       | 32       | 5.569   | 5.546    | -0.023 |
| 30       | 33       | 5.369   | 5.394    | 0.025  |
| 30       | 34       | 5.766   | 5.739    | -0.027 |
| 30       | 35       | 5.470   | 5.488    | 0.018  |
| 30       | 36       | 5.912   | 5.971    | 0.059  |
| 30       | 37       | 5.486   | 5.484    | -0.002 |
| Max      |          | 6.072   | 6.054    | 0.094  |
| Average  |          | 5.610   | 5.611    | 0.001  |
| Min      |          | 5.255   | 5.254    | -0.067 |
| Std Dev  |          | 0.187   | 0.182    | 0.033  |



| 36.7_HS TIMEOUT FF |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| Test Site          |       |       |       |       |
| Tester             |       |       |       |       |
| Test Number        |       |       |       |       |
| Max Limit          | 9     | us    |       |       |
| Min Limit          | 3     | us    |       |       |
| kRad(Si)           | 20    | 25    | 30    | 35    |
| LL                 | 3.000 | 3.000 | 3.000 | 3.000 |
| Min                | 5.254 | 5.481 | 5.394 | 5.267 |
| Average            | 5.594 | 5.692 | 5.615 | 5.602 |
| Max                | 6.054 | 5.815 | 5.971 | 5.768 |
| UL                 | 9.000 | 9.000 | 9.000 | 9.000 |

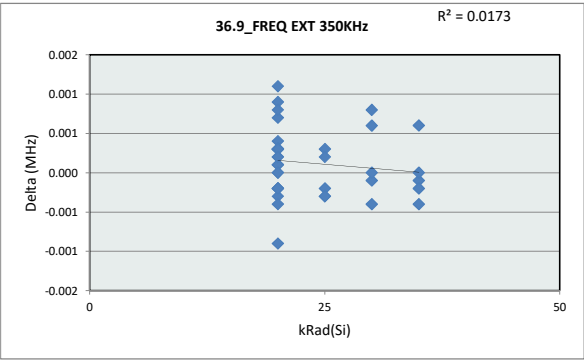


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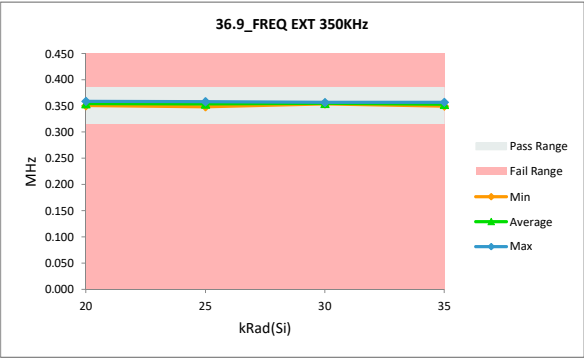
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 36.9_FREQ EXT 350KHz |       |       |
|----------------------|-------|-------|
| Test Site            |       |       |
| Tester               |       |       |
| Test Number          |       |       |
| Unit                 | MHz   | MHz   |
| Max Limit            | 0.385 | 0.385 |
| Min Limit            | 0.315 | 0.315 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.350   | 0.350    | 0.000  |
| 25       | 2        | 0.358   | 0.358    | 0.000  |
| 25       | 3        | 0.356   | 0.357    | 0.000  |
| 25       | 4        | 0.349   | 0.348    | 0.000  |
| 25       | 5        | 0.355   | 0.354    | 0.000  |
| 20       | 6        | 0.350   | 0.350    | 0.000  |
| 20       | 7        | 0.354   | 0.354    | 0.000  |
| 20       | 8        | 0.357   | 0.358    | 0.001  |
| 20       | 9        | 0.354   | 0.354    | 0.000  |
| 20       | 10       | 0.356   | 0.357    | 0.000  |
| 20       | 11       | 0.352   | 0.351    | -0.001 |
| 20       | 12       | 0.355   | 0.356    | 0.001  |
| 20       | 13       | 0.359   | 0.359    | 0.000  |
| 20       | 14       | 0.357   | 0.357    | 0.000  |
| 20       | 15       | 0.356   | 0.356    | 0.000  |
| 20       | 16       | 0.352   | 0.352    | 0.000  |
| 20       | 17       | 0.354   | 0.353    | 0.000  |
| 20       | 18       | 0.353   | 0.353    | 0.000  |
| 20       | 19       | 0.353   | 0.354    | 0.001  |
| 20       | 20       | 0.354   | 0.354    | 0.000  |
| 20       | 21       | 0.354   | 0.354    | 0.000  |
| 20       | 22       | 0.352   | 0.353    | 0.001  |
| 20       | 23       | 0.352   | 0.352    | 0.000  |
| 20       | 24       | 0.355   | 0.355    | 0.000  |
| 20       | 25       | 0.354   | 0.355    | 0.000  |
| 20       | 26       | 0.353   | 0.353    | 0.000  |
| 20       | 27       | 0.355   | 0.355    | 0.000  |
| 35       | 28       | 0.356   | 0.356    | 0.000  |
| 35       | 29       | 0.357   | 0.357    | 0.000  |
| 35       | 30       | 0.351   | 0.351    | 0.000  |
| 35       | 31       | 0.352   | 0.353    | 0.001  |
| 35       | 32       | 0.350   | 0.350    | 0.000  |
| 30       | 33       | 0.356   | 0.356    | 0.001  |
| 30       | 34       | 0.354   | 0.354    | 0.000  |
| 30       | 35       | 0.355   | 0.355    | 0.000  |
| 30       | 36       | 0.353   | 0.354    | 0.001  |
| 30       | 37       | 0.356   | 0.356    | 0.000  |
|          | Max      | 0.359   | 0.359    | 0.001  |
|          | Average  | 0.354   | 0.354    | 0.000  |
|          | Min      | 0.349   | 0.348    | -0.001 |
|          | Std Dev  | 0.002   | 0.002    | 0.000  |



| 36.9_FREQ EXT 350KHz |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Test Site            |       |       |       |       |
| Tester               |       |       |       |       |
| Test Number          |       |       |       |       |
| Max Limit            | 0.385 | MHz   |       |       |
| Min Limit            | 0.315 | MHz   |       |       |
| kRad(Si)             | 20    | 25    | 30    | 35    |
| LL                   | 0.315 | 0.315 | 0.315 | 0.315 |
| Min                  | 0.350 | 0.348 | 0.354 | 0.350 |
| Average              | 0.354 | 0.353 | 0.355 | 0.353 |
| Max                  | 0.359 | 0.358 | 0.357 | 0.357 |
| UL                   | 0.385 | 0.385 | 0.385 | 0.385 |



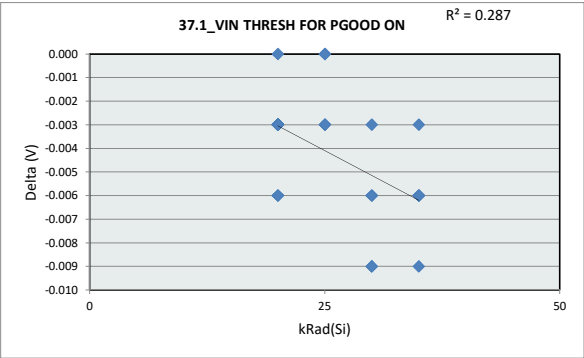
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| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

37.1\_VIN THRESH FOR PGOOD ON

|             |      |      |
|-------------|------|------|
| Test Site   |      |      |
| Tester      |      |      |
| Test Number |      |      |
| Unit        | V    | V    |
| Max Limit   | 2    | 2    |
| Min Limit   | 1.12 | 1.12 |

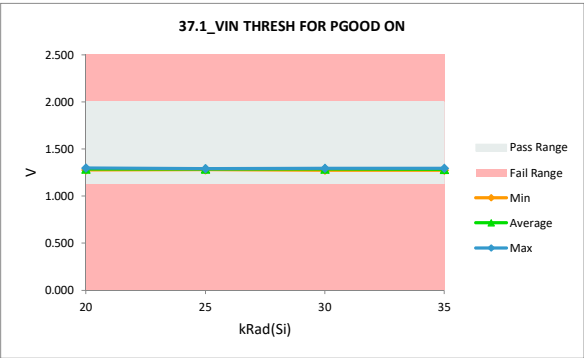
| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.289   | 1.289    | 0.000  |
| 25       | 2        | 1.292   | 1.289    | -0.003 |
| 25       | 3        | 1.289   | 1.286    | -0.003 |
| 25       | 4        | 1.283   | 1.280    | -0.003 |
| 25       | 5        | 1.292   | 1.292    | 0.000  |
| 20       | 6        | 1.292   | 1.289    | -0.003 |
| 20       | 7        | 1.289   | 1.286    | -0.003 |
| 20       | 8        | 1.301   | 1.298    | -0.003 |
| 20       | 9        | 1.289   | 1.286    | -0.003 |
| 20       | 10       | 1.292   | 1.289    | -0.003 |
| 20       | 11       | 1.283   | 1.283    | 0.000  |
| 20       | 12       | 1.280   | 1.277    | -0.003 |
| 20       | 13       | 1.292   | 1.289    | -0.003 |
| 20       | 14       | 1.292   | 1.289    | -0.003 |
| 20       | 15       | 1.304   | 1.298    | -0.006 |
| 20       | 16       | 1.286   | 1.283    | -0.003 |
| 20       | 17       | 1.286   | 1.283    | -0.003 |
| 20       | 18       | 1.280   | 1.277    | -0.003 |
| 20       | 19       | 1.295   | 1.292    | -0.003 |
| 20       | 20       | 1.295   | 1.289    | -0.006 |
| 20       | 21       | 1.292   | 1.289    | -0.003 |
| 20       | 22       | 1.286   | 1.283    | -0.003 |
| 20       | 23       | 1.292   | 1.289    | -0.003 |
| 20       | 24       | 1.292   | 1.289    | -0.003 |
| 20       | 25       | 1.292   | 1.289    | -0.003 |
| 20       | 26       | 1.295   | 1.292    | -0.003 |
| 20       | 27       | 1.289   | 1.283    | -0.006 |
| 35       | 28       | 1.301   | 1.295    | -0.006 |
| 35       | 29       | 1.283   | 1.280    | -0.003 |
| 35       | 30       | 1.289   | 1.283    | -0.006 |
| 35       | 31       | 1.289   | 1.283    | -0.006 |
| 35       | 32       | 1.283   | 1.274    | -0.009 |
| 30       | 33       | 1.298   | 1.292    | -0.006 |
| 30       | 34       | 1.298   | 1.295    | -0.003 |
| 30       | 35       | 1.283   | 1.274    | -0.009 |
| 30       | 36       | 1.289   | 1.280    | -0.009 |
| 30       | 37       | 1.298   | 1.292    | -0.006 |
|          | Max      | 1.304   | 1.298    | 0.000  |
|          | Average  | 1.291   | 1.287    | -0.004 |
|          | Min      | 1.280   | 1.274    | -0.009 |
|          | Std Dev  | 0.006   | 0.006    | 0.002  |



37.1\_VIN THRESH FOR PGOOD

|             |      |   |
|-------------|------|---|
| Test Site   |      |   |
| Tester      |      |   |
| Test Number |      |   |
| Max Limit   | 2    | V |
| Min Limit   | 1.12 | V |

| kRad(Si) | 20    | 25    | 30    | 35    |
|----------|-------|-------|-------|-------|
| LL       | 1.120 | 1.120 | 1.120 | 1.120 |
| Min      | 1.277 | 1.280 | 1.274 | 1.274 |
| Average  | 1.287 | 1.287 | 1.287 | 1.283 |
| Max      | 1.298 | 1.292 | 1.295 | 1.295 |
| UL       | 2.000 | 2.000 | 2.000 | 2.000 |

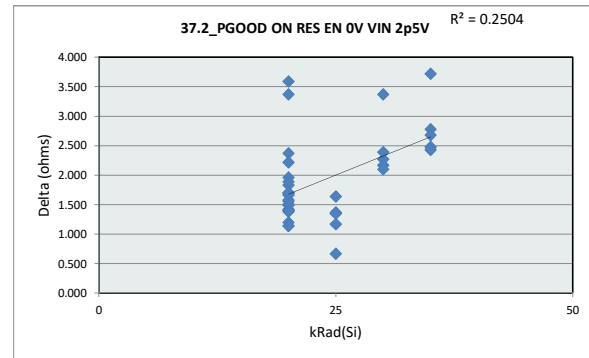


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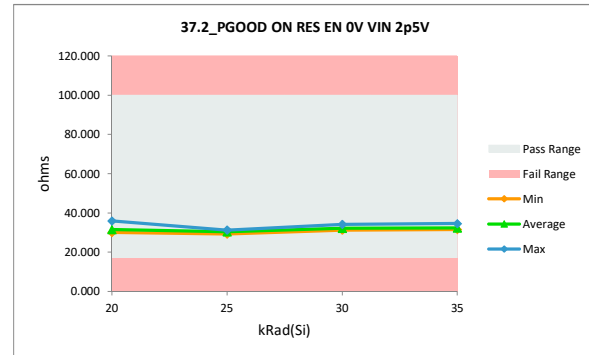
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.2_PGOOD ON RES EN 0V VIN |      |      |
|-----------------------------|------|------|
| Test Site                   |      |      |
| Tester                      |      |      |
| Test Number                 |      |      |
| Unit                        | ohms | ohms |
| Max Limit                   | 100  | 100  |
| Min Limit                   | 17   | 17   |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta |
|----------|----------|---------|----------|-------|
| 25       | 1        | 29.440  | 30.810   | 1.370 |
| 25       | 2        | 29.660  | 31.300   | 1.640 |
| 25       | 3        | 28.620  | 29.290   | 0.670 |
| 25       | 4        | 28.900  | 30.070   | 1.170 |
| 25       | 5        | 29.610  | 30.960   | 1.350 |
| 20       | 6        | 29.740  | 31.570   | 1.830 |
| 20       | 7        | 31.430  | 33.800   | 2.370 |
| 20       | 8        | 29.970  | 31.930   | 1.960 |
| 20       | 9        | 29.230  | 30.630   | 1.400 |
| 20       | 10       | 30.010  | 32.230   | 2.220 |
| 20       | 11       | 29.210  | 30.630   | 1.420 |
| 20       | 12       | 32.600  | 35.970   | 3.370 |
| 20       | 13       | 29.290  | 30.800   | 1.510 |
| 20       | 14       | 29.190  | 30.600   | 1.410 |
| 20       | 15       | 29.460  | 31.020   | 1.560 |
| 20       | 16       | 28.980  | 30.180   | 1.200 |
| 20       | 17       | 28.930  | 30.070   | 1.140 |
| 20       | 18       | 29.640  | 31.130   | 1.490 |
| 20       | 19       | 29.990  | 31.570   | 1.580 |
| 20       | 20       | 29.240  | 30.380   | 1.140 |
| 20       | 21       | 31.700  | 35.290   | 3.590 |
| 20       | 22       | 29.090  | 30.790   | 1.700 |
| 20       | 23       | 29.550  | 31.210   | 1.660 |
| 20       | 24       | 29.020  | 30.700   | 1.680 |
| 20       | 25       | 29.290  | 30.990   | 1.700 |
| 20       | 26       | 30.000  | 31.890   | 1.890 |
| 20       | 27       | 29.150  | 30.530   | 1.380 |
| 35       | 28       | 30.860  | 34.580   | 3.720 |
| 35       | 29       | 29.320  | 32.100   | 2.780 |
| 35       | 30       | 29.980  | 32.460   | 2.480 |
| 35       | 31       | 28.830  | 31.510   | 2.680 |
| 35       | 32       | 29.140  | 31.570   | 2.430 |
| 30       | 33       | 29.260  | 31.530   | 2.270 |
| 30       | 34       | 29.610  | 32.000   | 2.390 |
| 30       | 35       | 30.770  | 34.140   | 3.370 |
| 30       | 36       | 29.120  | 31.290   | 2.170 |
| 30       | 37       | 30.000  | 32.100   | 2.100 |
| Max      |          | 32.600  | 35.970   | 3.720 |
| Average  |          | 29.671  | 31.611   | 1.940 |
| Min      |          | 28.620  | 29.290   | 0.670 |
| Std Dev  |          | 0.843   | 1.461    | 0.732 |



| 37.2_PGOOD ON RES EN 0V VIN |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|
| Test Site                   |         |         |         |         |
| Tester                      |         |         |         |         |
| Test Number                 |         |         |         |         |
| Max Limit                   | 100     | ohms    |         |         |
| Min Limit                   | 17      | ohms    |         |         |
| kRad(Si)                    | 20      | 25      | 30      | 35      |
| LL                          | 17.000  | 17.000  | 17.000  | 17.000  |
| Min                         | 30.070  | 29.290  | 31.290  | 31.510  |
| Average                     | 31.541  | 30.486  | 32.212  | 32.444  |
| Max                         | 35.970  | 31.300  | 34.140  | 34.580  |
| UL                          | 100.000 | 100.000 | 100.000 | 100.000 |



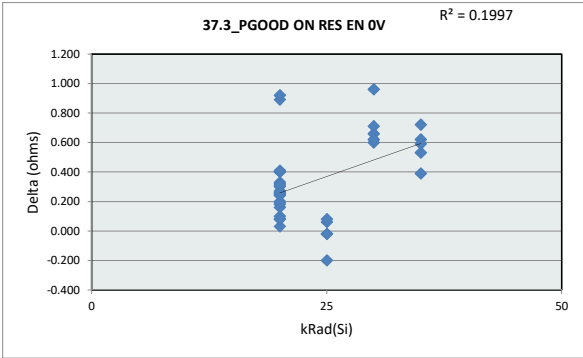
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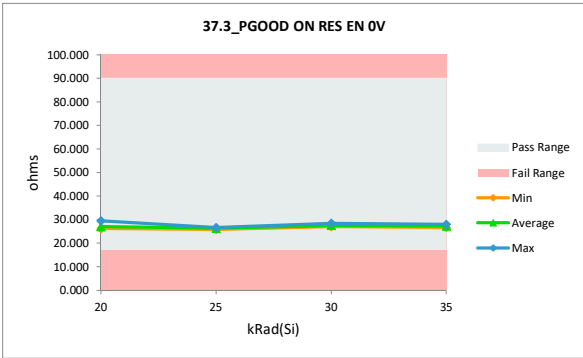
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.3_PGOOD ON RES EN OV |      |      |
|-------------------------|------|------|
| Test Site               |      |      |
| Tester                  |      |      |
| Test Number             |      |      |
| Unit                    | ohms | ohms |
| Max Limit               | 90   | 90   |
| Min Limit               | 17   | 17   |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 26.340  | 26.400   | 0.060  |
| 25       | 2        | 26.580  | 26.660   | 0.080  |
| 25       | 3        | 26.030  | 25.830   | -0.200 |
| 25       | 4        | 26.140  | 26.120   | -0.020 |
| 25       | 5        | 26.640  | 26.620   | -0.020 |
| 20       | 6        | 26.520  | 26.850   | 0.330  |
| 20       | 7        | 27.760  | 28.160   | 0.400  |
| 20       | 8        | 26.780  | 27.180   | 0.400  |
| 20       | 9        | 26.400  | 26.580   | 0.180  |
| 20       | 10       | 26.680  | 27.000   | 0.320  |
| 20       | 11       | 26.350  | 26.450   | 0.100  |
| 20       | 12       | 28.590  | 29.480   | 0.890  |
| 20       | 13       | 26.320  | 26.400   | 0.080  |
| 20       | 14       | 26.580  | 26.740   | 0.160  |
| 20       | 15       | 26.400  | 26.640   | 0.240  |
| 20       | 16       | 26.140  | 26.170   | 0.030  |
| 20       | 17       | 26.110  | 26.190   | 0.080  |
| 20       | 18       | 26.570  | 26.820   | 0.250  |
| 20       | 19       | 26.940  | 27.140   | 0.200  |
| 20       | 20       | 26.310  | 26.500   | 0.190  |
| 20       | 21       | 28.060  | 28.980   | 0.920  |
| 20       | 22       | 26.310  | 26.610   | 0.300  |
| 20       | 23       | 27.190  | 27.460   | 0.270  |
| 20       | 24       | 26.160  | 26.570   | 0.410  |
| 20       | 25       | 26.350  | 26.600   | 0.250  |
| 20       | 26       | 26.940  | 27.250   | 0.310  |
| 20       | 27       | 26.200  | 26.460   | 0.260  |
| 35       | 28       | 27.280  | 28.000   | 0.720  |
| 35       | 29       | 26.580  | 27.110   | 0.530  |
| 35       | 30       | 27.230  | 27.620   | 0.390  |
| 35       | 31       | 26.020  | 26.640   | 0.620  |
| 35       | 32       | 26.400  | 26.990   | 0.590  |
| 30       | 33       | 26.480  | 27.080   | 0.600  |
| 30       | 34       | 26.750  | 27.410   | 0.660  |
| 30       | 35       | 27.510  | 28.470   | 0.960  |
| 30       | 36       | 26.430  | 27.050   | 0.620  |
| 30       | 37       | 26.840  | 27.550   | 0.710  |
| Max      |          | 28.590  | 29.480   | 0.960  |
| Average  |          | 26.673  | 27.021   | 0.348  |
| Min      |          | 26.020  | 25.830   | -0.200 |
| Std Dev  |          | 0.575   | 0.784    | 0.282  |



| 37.3_PGOOD ON RES EN OV |        |        |        |        |
|-------------------------|--------|--------|--------|--------|
| Test Site               |        |        |        |        |
| Tester                  |        |        |        |        |
| Test Number             |        |        |        |        |
| Max Limit               | 90     | ohms   |        |        |
| Min Limit               | 17     | ohms   |        |        |
| kRad(Si)                | 20     | 25     | 30     | 35     |
| LL                      | 17.000 | 17.000 | 17.000 | 17.000 |
| Min                     | 26.170 | 25.830 | 27.050 | 26.640 |
| Average                 | 27.010 | 26.326 | 27.512 | 27.272 |
| Max                     | 29.480 | 26.660 | 28.470 | 28.000 |
| UL                      | 90.000 | 90.000 | 90.000 | 90.000 |



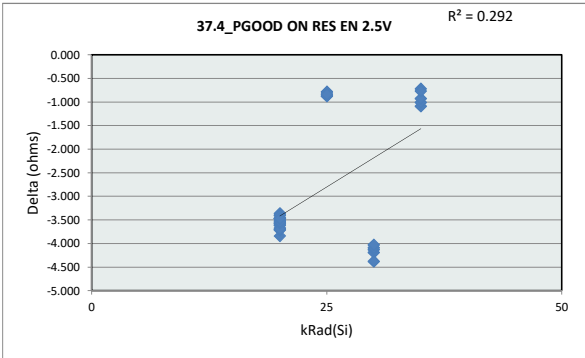
# LDR TID Report

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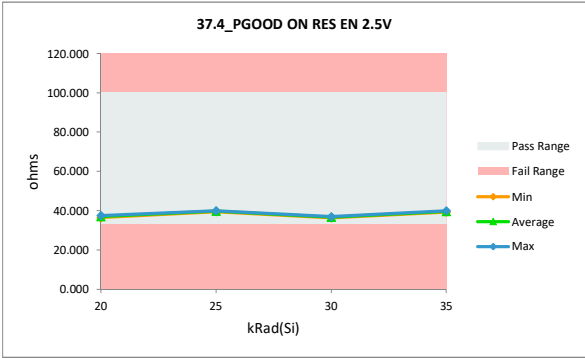
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.4_PGOOD ON RES EN 2.5V |      |      |
|---------------------------|------|------|
| Test Site                 |      |      |
| Tester                    |      |      |
| Test Number               |      |      |
| Unit                      | ohms | ohms |
| Max Limit                 | 100  | 100  |
| Min Limit                 | 33   | 33   |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 40.600  | 39.720   | -0.880 |
| 25       | 2        | 40.590  | 39.810   | -0.780 |
| 25       | 3        | 40.300  | 39.490   | -0.810 |
| 25       | 4        | 40.600  | 39.730   | -0.870 |
| 25       | 5        | 40.760  | 39.920   | -0.840 |
| 20       | 6        | 40.630  | 36.930   | -3.700 |
| 20       | 7        | 41.020  | 37.180   | -3.840 |
| 20       | 8        | 40.730  | 37.010   | -3.720 |
| 20       | 9        | 39.920  | 36.450   | -3.470 |
| 20       | 10       | 40.360  | 36.800   | -3.560 |
| 20       | 11       | 40.760  | 37.280   | -3.480 |
| 20       | 12       | 41.200  | 37.510   | -3.690 |
| 20       | 13       | 40.390  | 36.720   | -3.670 |
| 20       | 14       | 40.480  | 36.860   | -3.620 |
| 20       | 15       | 40.900  | 37.320   | -3.580 |
| 20       | 16       | 40.220  | 36.630   | -3.590 |
| 20       | 17       | 40.280  | 36.880   | -3.400 |
| 20       | 18       | 40.580  | 36.960   | -3.620 |
| 20       | 19       | 40.610  | 37.150   | -3.460 |
| 20       | 20       | 40.290  | 36.770   | -3.520 |
| 20       | 21       | 40.940  | 37.240   | -3.700 |
| 20       | 22       | 40.540  | 36.970   | -3.570 |
| 20       | 23       | 40.830  | 37.290   | -3.540 |
| 20       | 24       | 39.980  | 36.620   | -3.360 |
| 20       | 25       | 40.320  | 36.850   | -3.470 |
| 20       | 26       | 40.550  | 37.140   | -3.410 |
| 20       | 27       | 40.340  | 36.870   | -3.470 |
| 35       | 28       | 40.550  | 39.460   | -1.090 |
| 35       | 29       | 40.290  | 39.280   | -1.010 |
| 35       | 30       | 40.860  | 39.930   | -0.930 |
| 35       | 31       | 40.170  | 39.450   | -0.720 |
| 35       | 32       | 40.370  | 39.600   | -0.770 |
| 30       | 33       | 40.670  | 36.480   | -4.190 |
| 30       | 34       | 40.740  | 36.360   | -4.380 |
| 30       | 35       | 41.080  | 36.950   | -4.130 |
| 30       | 36       | 40.660  | 36.570   | -4.090 |
| 30       | 37       | 40.680  | 36.650   | -4.030 |
| Max      |          | 41.200  | 39.930   | -0.720 |
| Average  |          | 40.562  | 37.644   | -2.918 |
| Min      |          | 39.920  | 36.360   | -4.380 |
| Std Dev  |          | 0.290   | 1.261    | 1.285  |



| 37.4_PGOOD ON RES EN 2.5V |         |         |         |         |
|---------------------------|---------|---------|---------|---------|
| Test Site                 |         |         |         |         |
| Tester                    |         |         |         |         |
| Test Number               |         |         |         |         |
| Max Limit                 | 100     | ohms    |         |         |
| Min Limit                 | 33      | ohms    |         |         |
| kRad(Si)                  | 20      | 25      | 30      | 35      |
| LL                        | 33.000  | 33.000  | 33.000  | 33.000  |
| Min                       | 36.450  | 39.490  | 36.360  | 39.280  |
| Average                   | 36.974  | 39.734  | 36.602  | 39.544  |
| Max                       | 37.510  | 39.920  | 36.950  | 39.930  |
| UL                        | 100.000 | 100.000 | 100.000 | 100.000 |



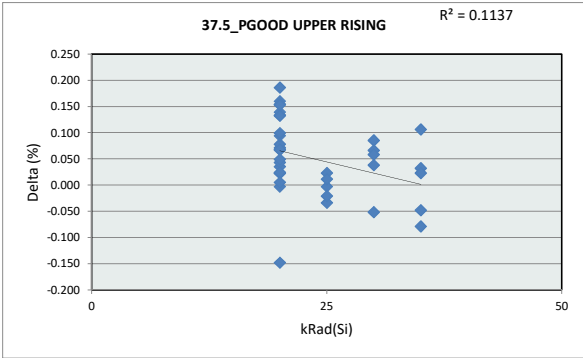
# LDR TID Report

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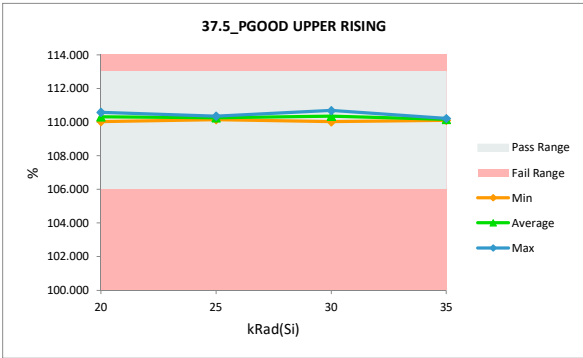
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.5_PGOOD UPPER RISING |     |     |
|-------------------------|-----|-----|
| Test Site               |     |     |
| Tester                  |     |     |
| Test Number             |     |     |
| Unit                    | %   | %   |
| Max Limit               | 113 | 113 |
| Min Limit               | 106 | 106 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 110.325 | 110.348  | 0.023  |
| 25       | 2        | 110.236 | 110.202  | -0.034 |
| 25       | 3        | 110.249 | 110.246  | -0.003 |
| 25       | 4        | 110.324 | 110.335  | 0.011  |
| 25       | 5        | 110.162 | 110.141  | -0.021 |
| 20       | 6        | 110.343 | 110.410  | 0.067  |
| 20       | 7        | 110.195 | 110.266  | 0.071  |
| 20       | 8        | 110.368 | 110.390  | 0.022  |
| 20       | 9        | 110.316 | 110.449  | 0.133  |
| 20       | 10       | 110.179 | 110.214  | 0.035  |
| 20       | 11       | 110.024 | 110.163  | 0.139  |
| 20       | 12       | 110.495 | 110.573  | 0.078  |
| 20       | 13       | 110.102 | 110.170  | 0.068  |
| 20       | 14       | 110.247 | 110.341  | 0.094  |
| 20       | 15       | 109.999 | 110.022  | 0.023  |
| 20       | 16       | 110.168 | 110.165  | -0.003 |
| 20       | 17       | 110.495 | 110.347  | -0.148 |
| 20       | 18       | 110.203 | 110.389  | 0.186  |
| 20       | 19       | 110.405 | 110.565  | 0.160  |
| 20       | 20       | 110.526 | 110.569  | 0.043  |
| 20       | 21       | 110.055 | 110.079  | 0.024  |
| 20       | 22       | 110.143 | 110.148  | 0.005  |
| 20       | 23       | 110.143 | 110.242  | 0.099  |
| 20       | 24       | 110.166 | 110.320  | 0.154  |
| 20       | 25       | 110.360 | 110.513  | 0.153  |
| 20       | 26       | 110.257 | 110.306  | 0.049  |
| 20       | 27       | 110.136 | 110.268  | 0.132  |
| 35       | 28       | 110.158 | 110.110  | -0.048 |
| 35       | 29       | 110.287 | 110.208  | -0.079 |
| 35       | 30       | 110.060 | 110.092  | 0.032  |
| 35       | 31       | 110.099 | 110.205  | 0.106  |
| 35       | 32       | 110.116 | 110.139  | 0.023  |
| 30       | 33       | 110.069 | 110.017  | -0.052 |
| 30       | 34       | 110.645 | 110.683  | 0.038  |
| 30       | 35       | 110.372 | 110.457  | 0.085  |
| 30       | 36       | 110.394 | 110.460  | 0.066  |
| 30       | 37       | 110.069 | 110.127  | 0.058  |
| Max      |          | 110.645 | 110.683  | 0.186  |
| Average  |          | 110.240 | 110.289  | 0.048  |
| Min      |          | 109.999 | 110.017  | -0.148 |
| Std Dev  |          | 0.154   | 0.167    | 0.072  |



| 37.5_PGOOD UPPER RISING |         |         |         |         |
|-------------------------|---------|---------|---------|---------|
| Test Site               |         |         |         |         |
| Tester                  |         |         |         |         |
| Test Number             |         |         |         |         |
| Max Limit               | 113     | %       |         |         |
| Min Limit               | 106     | %       |         |         |
| kRad(Si)                | 20      | 25      | 30      | 35      |
| LL                      | 106.000 | 106.000 | 106.000 | 106.000 |
| Min                     | 110.022 | 110.141 | 110.017 | 110.092 |
| Average                 | 110.314 | 110.254 | 110.349 | 110.151 |
| Max                     | 110.573 | 110.348 | 110.683 | 110.208 |
| UL                      | 113.000 | 113.000 | 113.000 | 113.000 |

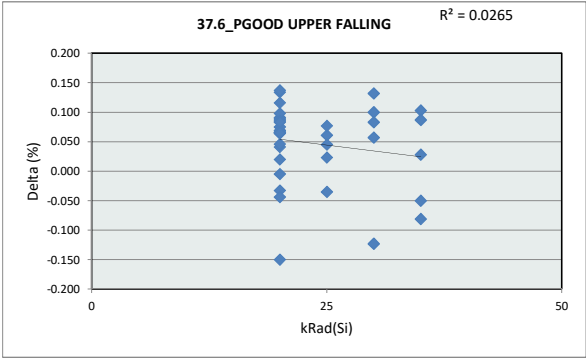


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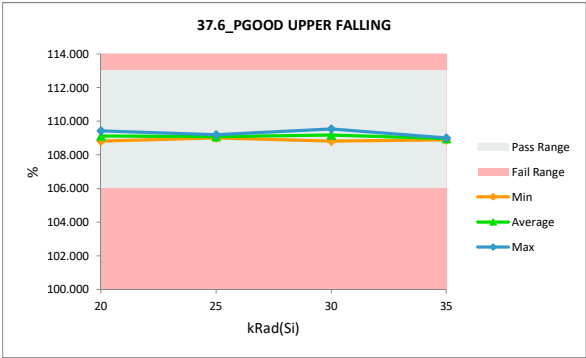
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.6_PGOOD UPPER FALLING |     |     |
|--------------------------|-----|-----|
| Test Site                |     |     |
| Tester                   |     |     |
| Test Number              |     |     |
| Unit                     | %   | %   |
| Max Limit                | 113 | 113 |
| Min Limit                | 106 | 106 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 109.063 | 109.086  | 0.023  |
| 25       | 2        | 109.040 | 109.005  | -0.035 |
| 25       | 3        | 109.052 | 109.113  | 0.061  |
| 25       | 4        | 109.126 | 109.203  | 0.077  |
| 25       | 5        | 108.965 | 109.010  | 0.045  |
| 20       | 6        | 109.147 | 109.212  | 0.065  |
| 20       | 7        | 108.932 | 109.066  | 0.134  |
| 20       | 8        | 109.171 | 109.191  | 0.020  |
| 20       | 9        | 109.185 | 109.251  | 0.066  |
| 20       | 10       | 109.049 | 109.016  | -0.033 |
| 20       | 11       | 108.893 | 109.030  | 0.137  |
| 20       | 12       | 109.232 | 109.307  | 0.075  |
| 20       | 13       | 108.907 | 108.971  | 0.064  |
| 20       | 14       | 109.049 | 109.140  | 0.091  |
| 20       | 15       | 108.870 | 108.826  | -0.044 |
| 20       | 16       | 109.035 | 109.030  | -0.005 |
| 20       | 17       | 109.300 | 109.150  | -0.150 |
| 20       | 18       | 109.073 | 109.189  | 0.116  |
| 20       | 19       | 109.274 | 109.364  | 0.090  |
| 20       | 20       | 109.395 | 109.436  | 0.041  |
| 20       | 21       | 108.793 | 108.880  | 0.087  |
| 20       | 22       | 108.946 | 109.015  | 0.069  |
| 20       | 23       | 108.946 | 109.044  | 0.098  |
| 20       | 24       | 109.036 | 109.121  | 0.085  |
| 20       | 25       | 109.231 | 109.314  | 0.083  |
| 20       | 26       | 109.127 | 109.173  | 0.046  |
| 20       | 27       | 109.007 | 109.072  | 0.065  |
| 35       | 28       | 108.962 | 108.912  | -0.050 |
| 35       | 29       | 109.090 | 109.009  | -0.081 |
| 35       | 30       | 108.862 | 108.890  | 0.028  |
| 35       | 31       | 108.902 | 109.005  | 0.103  |
| 35       | 32       | 108.920 | 109.007  | 0.087  |
| 30       | 33       | 108.941 | 108.818  | -0.123 |
| 30       | 34       | 109.448 | 109.548  | 0.100  |
| 30       | 35       | 109.174 | 109.257  | 0.083  |
| 30       | 36       | 109.195 | 109.327  | 0.132  |
| 30       | 37       | 108.873 | 108.930  | 0.057  |
| Max      |          | 109.448 | 109.548  | 0.137  |
| Average  |          | 109.060 | 109.106  | 0.046  |
| Min      |          | 108.793 | 108.818  | -0.150 |
| Std Dev  |          | 0.154   | 0.168    | 0.069  |



| 37.6_PGOOD UPPER FALLING |         |         |         |         |
|--------------------------|---------|---------|---------|---------|
| Test Site                |         |         |         |         |
| Tester                   |         |         |         |         |
| Test Number              |         |         |         |         |
| Max Limit                | 113     | %       |         |         |
| Min Limit                | 106     | %       |         |         |
| kRad(Si)                 | 20      | 25      | 30      | 35      |
| LL                       | 106.000 | 106.000 | 106.000 | 106.000 |
| Min                      | 108.826 | 109.005 | 108.818 | 108.890 |
| Average                  | 109.127 | 109.083 | 109.176 | 108.965 |
| Max                      | 109.436 | 109.203 | 109.548 | 109.009 |
| UL                       | 113.000 | 113.000 | 113.000 | 113.000 |



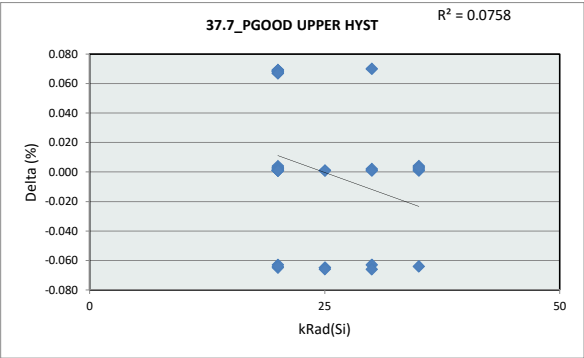


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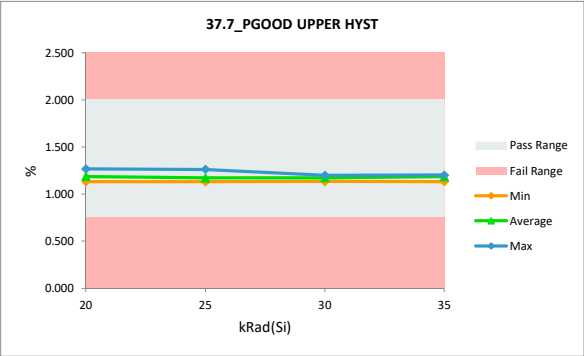
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.7_PGOOD UPPER HYST |      |      |
|-----------------------|------|------|
| Test Site             |      |      |
| Tester                |      |      |
| Test Number           |      |      |
| Unit                  | %    | %    |
| Max Limit             | 2    | 2    |
| Min Limit             | 0.75 | 0.75 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.261   | 1.262    | 0.001  |
| 25       | 2        | 1.196   | 1.197    | 0.001  |
| 25       | 3        | 1.197   | 1.132    | -0.065 |
| 25       | 4        | 1.198   | 1.133    | -0.065 |
| 25       | 5        | 1.197   | 1.131    | -0.066 |
| 20       | 6        | 1.196   | 1.198    | 0.002  |
| 20       | 7        | 1.264   | 1.199    | -0.065 |
| 20       | 8        | 1.198   | 1.199    | 0.001  |
| 20       | 9        | 1.130   | 1.198    | 0.068  |
| 20       | 10       | 1.130   | 1.198    | 0.068  |
| 20       | 11       | 1.131   | 1.132    | 0.001  |
| 20       | 12       | 1.263   | 1.266    | 0.003  |
| 20       | 13       | 1.195   | 1.199    | 0.004  |
| 20       | 14       | 1.198   | 1.201    | 0.003  |
| 20       | 15       | 1.129   | 1.196    | 0.067  |
| 20       | 16       | 1.132   | 1.134    | 0.002  |
| 20       | 17       | 1.195   | 1.197    | 0.002  |
| 20       | 18       | 1.131   | 1.200    | 0.069  |
| 20       | 19       | 1.131   | 1.200    | 0.069  |
| 20       | 20       | 1.131   | 1.132    | 0.001  |
| 20       | 21       | 1.262   | 1.199    | -0.063 |
| 20       | 22       | 1.197   | 1.133    | -0.064 |
| 20       | 23       | 1.197   | 1.198    | 0.001  |
| 20       | 24       | 1.130   | 1.198    | 0.068  |
| 20       | 25       | 1.129   | 1.198    | 0.069  |
| 20       | 26       | 1.131   | 1.132    | 0.001  |
| 20       | 27       | 1.129   | 1.196    | 0.067  |
| 35       | 28       | 1.197   | 1.198    | 0.001  |
| 35       | 29       | 1.197   | 1.199    | 0.002  |
| 35       | 30       | 1.198   | 1.202    | 0.004  |
| 35       | 31       | 1.197   | 1.200    | 0.003  |
| 35       | 32       | 1.196   | 1.132    | -0.064 |
| 30       | 33       | 1.129   | 1.199    | 0.070  |
| 30       | 34       | 1.198   | 1.135    | -0.063 |
| 30       | 35       | 1.198   | 1.200    | 0.002  |
| 30       | 36       | 1.199   | 1.133    | -0.066 |
| 30       | 37       | 1.196   | 1.197    | 0.001  |
| Max      |          | 1.264   | 1.266    | 0.070  |
| Average  |          | 1.181   | 1.183    | 0.002  |
| Min      |          | 1.129   | 1.131    | -0.066 |
| Std Dev  |          | 0.043   | 0.036    | 0.047  |



| 37.7_PGOOD UPPER HYST |       |       |       |       |
|-----------------------|-------|-------|-------|-------|
| Test Site             |       |       |       |       |
| Tester                |       |       |       |       |
| Test Number           |       |       |       |       |
| Max Limit             | 2     | %     |       |       |
| Min Limit             | 0.75  | %     |       |       |
| kRad(Si)              | 20    | 25    | 30    | 35    |
| LL                    | 0.750 | 0.750 | 0.750 | 0.750 |
| Min                   | 1.132 | 1.131 | 1.133 | 1.132 |
| Average               | 1.187 | 1.171 | 1.173 | 1.186 |
| Max                   | 1.266 | 1.262 | 1.200 | 1.202 |
| UL                    | 2.000 | 2.000 | 2.000 | 2.000 |

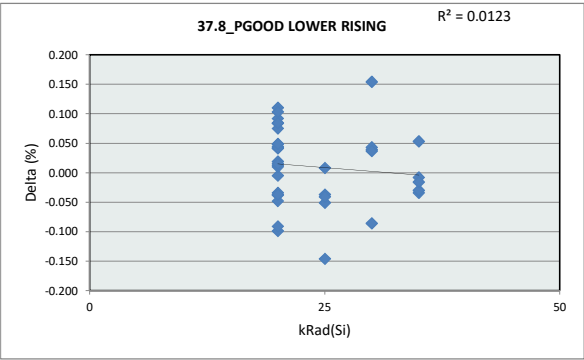


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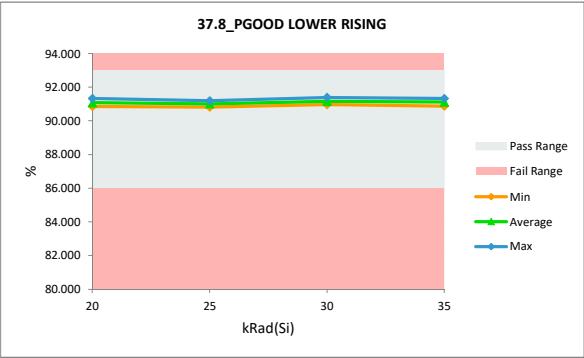
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.8_PGOOD LOWER RISING |    |    |
|-------------------------|----|----|
| Test Site               |    |    |
| Tester                  |    |    |
| Test Number             |    |    |
| Unit                    | %  | %  |
| Max Limit               | 93 | 93 |
| Min Limit               | 86 | 86 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 90.808  | 90.816   | 0.008  |
| 25       | 2        | 91.165  | 91.114   | -0.051 |
| 25       | 3        | 91.231  | 91.194   | -0.037 |
| 25       | 4        | 91.226  | 91.080   | -0.146 |
| 25       | 5        | 90.882  | 90.841   | -0.041 |
| 20       | 6        | 91.077  | 91.043   | -0.034 |
| 20       | 7        | 90.976  | 90.877   | -0.099 |
| 20       | 8        | 91.075  | 91.070   | -0.005 |
| 20       | 9        | 91.032  | 91.142   | 0.110  |
| 20       | 10       | 90.962  | 91.046   | 0.084  |
| 20       | 11       | 90.866  | 90.914   | 0.048  |
| 20       | 12       | 91.015  | 91.056   | 0.041  |
| 20       | 13       | 91.109  | 91.119   | 0.010  |
| 20       | 14       | 91.284  | 91.328   | 0.044  |
| 20       | 15       | 91.068  | 91.087   | 0.019  |
| 20       | 16       | 90.985  | 90.947   | -0.038 |
| 20       | 17       | 91.105  | 91.057   | -0.048 |
| 20       | 18       | 91.049  | 91.124   | 0.075  |
| 20       | 19       | 91.117  | 91.159   | 0.042  |
| 20       | 20       | 91.040  | 91.052   | 0.012  |
| 20       | 21       | 91.192  | 91.155   | -0.037 |
| 20       | 22       | 91.065  | 91.157   | 0.092  |
| 20       | 23       | 91.054  | 91.069   | 0.015  |
| 20       | 24       | 91.096  | 91.145   | 0.049  |
| 20       | 25       | 90.970  | 91.073   | 0.103  |
| 20       | 26       | 91.038  | 91.122   | 0.084  |
| 20       | 27       | 90.950  | 90.859   | -0.091 |
| 35       | 28       | 90.879  | 90.871   | -0.008 |
| 35       | 29       | 91.263  | 91.229   | -0.034 |
| 35       | 30       | 91.361  | 91.331   | -0.030 |
| 35       | 31       | 91.017  | 91.070   | 0.053  |
| 35       | 32       | 91.110  | 91.094   | -0.016 |
| 30       | 33       | 90.949  | 91.103   | 0.154  |
| 30       | 34       | 91.084  | 91.123   | 0.039  |
| 30       | 35       | 91.278  | 91.192   | -0.086 |
| 30       | 36       | 91.351  | 91.394   | 0.043  |
| 30       | 37       | 90.937  | 90.974   | 0.037  |
| Max      |          | 91.361  | 91.394   | 0.154  |
| Average  |          | 91.072  | 91.082   | 0.010  |
| Min      |          | 90.808  | 90.816   | -0.146 |
| Std Dev  |          | 0.134   | 0.132    | 0.065  |



| 37.8_PGOOD LOWER RISING |        |        |        |        |
|-------------------------|--------|--------|--------|--------|
| Test Site               |        |        |        |        |
| Tester                  |        |        |        |        |
| Test Number             |        |        |        |        |
| Max Limit               | 93     | %      |        |        |
| Min Limit               | 86     | %      |        |        |
| kRad(Si)                | 20     | 25     | 30     | 35     |
| LL                      | 86.000 | 86.000 | 86.000 | 86.000 |
| Min                     | 90.859 | 90.816 | 90.974 | 90.871 |
| Average                 | 91.073 | 91.009 | 91.157 | 91.119 |
| Max                     | 91.328 | 91.194 | 91.394 | 91.331 |
| UL                      | 93.000 | 93.000 | 93.000 | 93.000 |

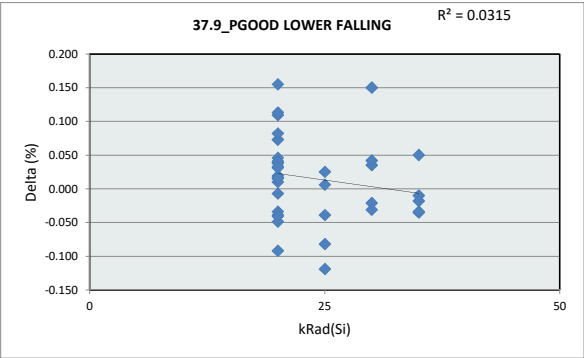


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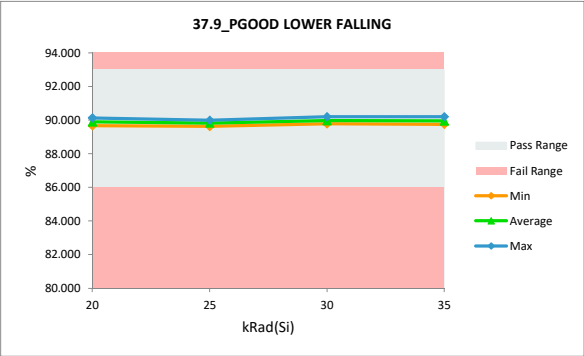
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.9_PGOOD LOWER FALLING |    |    |
|--------------------------|----|----|
| Test Site                |    |    |
| Tester                   |    |    |
| Test Number              |    |    |
| Unit                     | %  | %  |
| Max Limit                | 93 | 93 |
| Min Limit                | 86 | 86 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 89.614  | 89.620   | 0.006  |
| 25       | 2        | 90.036  | 89.917   | -0.119 |
| 25       | 3        | 90.034  | 89.995   | -0.039 |
| 25       | 4        | 89.962  | 89.880   | -0.082 |
| 25       | 5        | 89.685  | 89.710   | 0.025  |
| 20       | 6        | 89.881  | 89.912   | 0.031  |
| 20       | 7        | 89.712  | 89.678   | -0.034 |
| 20       | 8        | 89.878  | 89.871   | -0.007 |
| 20       | 9        | 89.768  | 89.877   | 0.109  |
| 20       | 10       | 89.832  | 89.848   | 0.016  |
| 20       | 11       | 89.735  | 89.781   | 0.046  |
| 20       | 12       | 89.752  | 89.790   | 0.038  |
| 20       | 13       | 89.914  | 89.987   | 0.073  |
| 20       | 14       | 90.086  | 90.127   | 0.041  |
| 20       | 15       | 89.938  | 89.957   | 0.019  |
| 20       | 16       | 89.852  | 89.813   | -0.039 |
| 20       | 17       | 89.976  | 89.927   | -0.049 |
| 20       | 18       | 89.851  | 89.924   | 0.073  |
| 20       | 19       | 89.919  | 89.958   | 0.039  |
| 20       | 20       | 89.910  | 89.920   | 0.010  |
| 20       | 21       | 89.930  | 89.889   | -0.041 |
| 20       | 22       | 89.802  | 89.957   | 0.155  |
| 20       | 23       | 89.923  | 89.938   | 0.015  |
| 20       | 24       | 89.900  | 90.013   | 0.113  |
| 20       | 25       | 89.841  | 89.874   | 0.033  |
| 20       | 26       | 89.841  | 89.923   | 0.082  |
| 20       | 27       | 89.755  | 89.663   | -0.092 |
| 35       | 28       | 89.749  | 89.739   | -0.010 |
| 35       | 29       | 90.065  | 90.030   | -0.035 |
| 35       | 30       | 90.230  | 90.196   | -0.034 |
| 35       | 31       | 89.820  | 89.870   | 0.050  |
| 35       | 32       | 89.914  | 89.896   | -0.018 |
| 30       | 33       | 89.754  | 89.904   | 0.150  |
| 30       | 34       | 89.953  | 89.988   | 0.035  |
| 30       | 35       | 90.013  | 89.992   | -0.021 |
| 30       | 36       | 90.152  | 90.194   | 0.042  |
| 30       | 37       | 89.808  | 89.777   | -0.031 |
| Max      |          | 90.230  | 90.196   | 0.155  |
| Average  |          | 89.886  | 89.901   | 0.015  |
| Min      |          | 89.614  | 89.620   | -0.119 |
| Std Dev  |          | 0.132   | 0.129    | 0.062  |



| 37.9_PGOOD LOWER FALLING |        |        |        |        |
|--------------------------|--------|--------|--------|--------|
| Test Site                |        |        |        |        |
| Tester                   |        |        |        |        |
| Test Number              |        |        |        |        |
| Max Limit                | 93     | %      |        |        |
| Min Limit                | 86     | %      |        |        |
| kRad(Si)                 | 20     | 25     | 30     | 35     |
| LL                       | 86.000 | 86.000 | 86.000 | 86.000 |
| Min                      | 89.663 | 89.620 | 89.777 | 89.739 |
| Average                  | 89.892 | 89.824 | 89.971 | 89.946 |
| Max                      | 90.127 | 89.995 | 90.194 | 90.196 |
| UL                       | 93.000 | 93.000 | 93.000 | 93.000 |

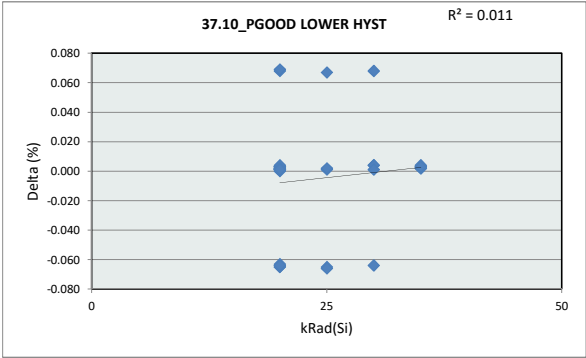


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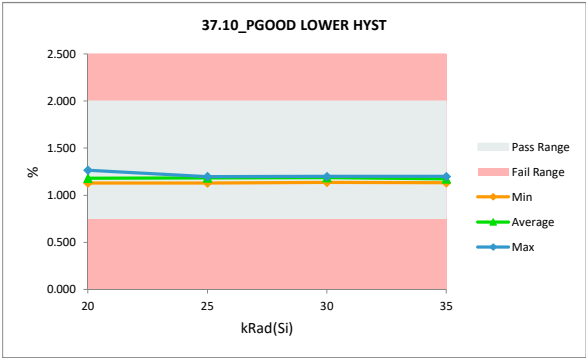
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.10_PGOOD LOWER HYST |      |      |
|------------------------|------|------|
| Test Site              |      |      |
| Tester                 |      |      |
| Test Number            |      |      |
| Unit                   | %    | %    |
| Max Limit              | 2    | 2    |
| Min Limit              | 0.75 | 0.75 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 1.195   | 1.196    | 0.001  |
| 25       | 2        | 1.130   | 1.197    | 0.067  |
| 25       | 3        | 1.197   | 1.199    | 0.002  |
| 25       | 4        | 1.264   | 1.199    | -0.065 |
| 25       | 5        | 1.197   | 1.131    | -0.066 |
| 20       | 6        | 1.196   | 1.131    | -0.065 |
| 20       | 7        | 1.264   | 1.199    | -0.065 |
| 20       | 8        | 1.198   | 1.199    | 0.001  |
| 20       | 9        | 1.263   | 1.265    | 0.002  |
| 20       | 10       | 1.130   | 1.198    | 0.068  |
| 20       | 11       | 1.131   | 1.132    | 0.001  |
| 20       | 12       | 1.263   | 1.266    | 0.003  |
| 20       | 13       | 1.195   | 1.132    | -0.063 |
| 20       | 14       | 1.198   | 1.201    | 0.003  |
| 20       | 15       | 1.129   | 1.129    | 0.000  |
| 20       | 16       | 1.132   | 1.134    | 0.002  |
| 20       | 17       | 1.129   | 1.131    | 0.002  |
| 20       | 18       | 1.197   | 1.200    | 0.003  |
| 20       | 19       | 1.197   | 1.200    | 0.003  |
| 20       | 20       | 1.131   | 1.132    | 0.001  |
| 20       | 21       | 1.262   | 1.266    | 0.004  |
| 20       | 22       | 1.263   | 1.199    | -0.064 |
| 20       | 23       | 1.131   | 1.132    | 0.001  |
| 20       | 24       | 1.196   | 1.132    | -0.064 |
| 20       | 25       | 1.129   | 1.198    | 0.069  |
| 20       | 26       | 1.197   | 1.199    | 0.002  |
| 20       | 27       | 1.195   | 1.196    | 0.001  |
| 35       | 28       | 1.130   | 1.132    | 0.002  |
| 35       | 29       | 1.197   | 1.199    | 0.002  |
| 35       | 30       | 1.131   | 1.135    | 0.004  |
| 35       | 31       | 1.197   | 1.200    | 0.003  |
| 35       | 32       | 1.196   | 1.199    | 0.003  |
| 30       | 33       | 1.195   | 1.199    | 0.004  |
| 30       | 34       | 1.131   | 1.135    | 0.004  |
| 30       | 35       | 1.264   | 1.200    | -0.064 |
| 30       | 36       | 1.199   | 1.200    | 0.001  |
| 30       | 37       | 1.129   | 1.197    | 0.068  |
| Max      |          | 1.264   | 1.266    | 0.069  |
| Average  |          | 1.186   | 1.181    | -0.005 |
| Min      |          | 1.129   | 1.129    | -0.066 |
| Std Dev  |          | 0.048   | 0.041    | 0.038  |



| 37.10_PGOOD LOWER HYST |       |       |       |       |
|------------------------|-------|-------|-------|-------|
| Test Site              |       |       |       |       |
| Tester                 |       |       |       |       |
| Test Number            |       |       |       |       |
| Max Limit              | 2     | %     |       |       |
| Min Limit              | 0.75  | %     |       |       |
| kRad(Si)               | 20    | 25    | 30    | 35    |
| LL                     | 0.750 | 0.750 | 0.750 | 0.750 |
| Min                    | 1.129 | 1.131 | 1.135 | 1.132 |
| Average                | 1.181 | 1.184 | 1.186 | 1.173 |
| Max                    | 1.266 | 1.199 | 1.200 | 1.200 |
| UL                     | 2.000 | 2.000 | 2.000 | 2.000 |

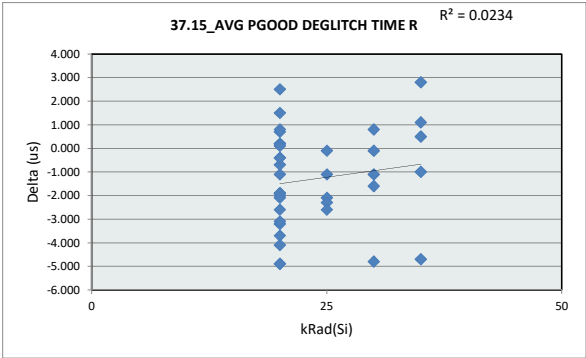


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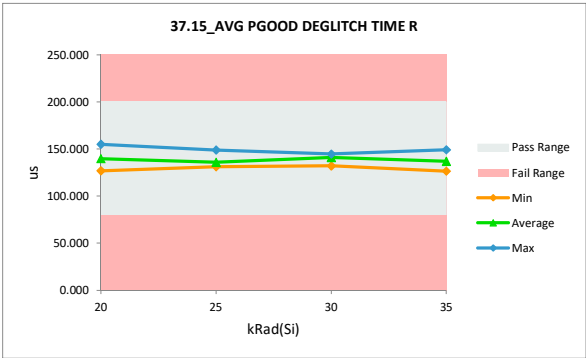
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.15_AVG PGOOD DEGLITCH TIME R |     |     |
|---------------------------------|-----|-----|
| Test Site                       |     |     |
| Tester                          |     |     |
| Test Number                     |     |     |
| Unit                            | us  | us  |
| Max Limit                       | 200 | 200 |
| Min Limit                       | 80  | 80  |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 133.300 | 133.200  | -0.100 |
| 25       | 2        | 135.000 | 132.900  | -2.100 |
| 25       | 3        | 134.600 | 133.500  | -1.100 |
| 25       | 4        | 133.400 | 131.100  | -2.300 |
| 25       | 5        | 151.500 | 148.900  | -2.600 |
| 20       | 6        | 132.800 | 133.500  | 0.700  |
| 20       | 7        | 145.900 | 141.000  | -4.900 |
| 20       | 8        | 133.900 | 133.500  | -0.400 |
| 20       | 9        | 146.000 | 144.000  | -2.000 |
| 20       | 10       | 141.400 | 140.700  | -0.700 |
| 20       | 11       | 143.000 | 140.400  | -2.600 |
| 20       | 12       | 138.800 | 139.000  | 0.200  |
| 20       | 13       | 139.800 | 136.100  | -3.700 |
| 20       | 14       | 149.000 | 149.200  | 0.200  |
| 20       | 15       | 131.700 | 126.800  | -4.900 |
| 20       | 16       | 148.600 | 151.100  | 2.500  |
| 20       | 17       | 150.700 | 147.500  | -3.200 |
| 20       | 18       | 143.700 | 144.500  | 0.800  |
| 20       | 19       | 142.100 | 138.000  | -4.100 |
| 20       | 20       | 136.300 | 134.400  | -1.900 |
| 20       | 21       | 141.300 | 140.900  | -0.400 |
| 20       | 22       | 131.700 | 133.200  | 1.500  |
| 20       | 23       | 156.900 | 155.000  | -1.900 |
| 20       | 24       | 136.300 | 136.400  | 0.100  |
| 20       | 25       | 137.600 | 136.500  | -1.100 |
| 20       | 26       | 140.300 | 138.200  | -2.100 |
| 20       | 27       | 138.400 | 135.300  | -3.100 |
| 35       | 28       | 146.300 | 149.100  | 2.800  |
| 35       | 29       | 144.500 | 145.000  | 0.500  |
| 35       | 30       | 135.000 | 130.300  | -4.700 |
| 35       | 31       | 125.300 | 126.400  | 1.100  |
| 35       | 32       | 134.600 | 133.600  | -1.000 |
| 30       | 33       | 142.700 | 143.500  | 0.800  |
| 30       | 34       | 132.100 | 132.000  | -0.100 |
| 30       | 35       | 149.400 | 144.600  | -4.800 |
| 30       | 36       | 142.700 | 141.600  | -1.100 |
| 30       | 37       | 144.700 | 143.100  | -1.600 |
| Max      |          | 156.900 | 155.000  | 2.800  |
| Average  |          | 140.305 | 139.027  | -1.278 |
| Min      |          | 125.300 | 126.400  | -4.900 |
| Std Dev  |          | 6.892   | 6.941    | 2.038  |



| 37.15_AVG PGOOD DEGLITCH |         |         |         |         |
|--------------------------|---------|---------|---------|---------|
| Test Site                |         |         |         |         |
| Tester                   |         |         |         |         |
| Test Number              |         |         |         |         |
| Max Limit                | 200     | us      |         |         |
| Min Limit                | 80      | us      |         |         |
| kRad(Si)                 | 20      | 25      | 30      | 35      |
| LL                       | 80.000  | 80.000  | 80.000  | 80.000  |
| Min                      | 126.800 | 131.100 | 132.000 | 126.400 |
| Average                  | 139.782 | 135.920 | 140.960 | 136.880 |
| Max                      | 155.000 | 148.900 | 144.600 | 149.100 |
| UL                       | 200.000 | 200.000 | 200.000 | 200.000 |



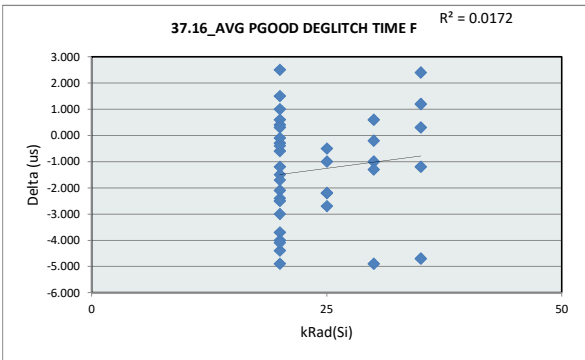
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| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

**37.16\_AVG PGOOD DEGLITCH TI**

|             |     |     |
|-------------|-----|-----|
| Test Site   |     |     |
| Tester      |     |     |
| Test Number |     |     |
| Unit        | us  | us  |
| Max Limit   | 200 | 200 |
| Min Limit   | 80  | 80  |

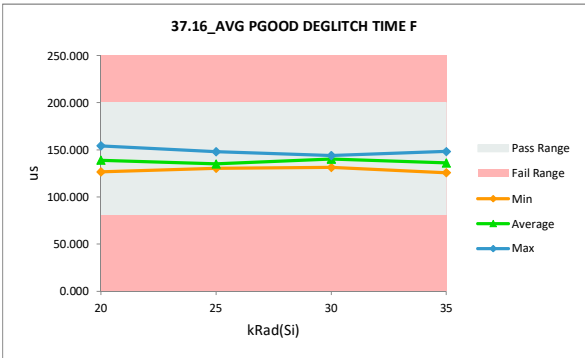
| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 132.300 | 131.800  | -0.500 |
| 25       | 2        | 134.300 | 132.100  | -2.200 |
| 25       | 3        | 133.700 | 132.700  | -1.000 |
| 25       | 4        | 132.600 | 130.400  | -2.200 |
| 25       | 5        | 150.700 | 148.000  | -2.700 |
| 20       | 6        | 131.900 | 132.500  | 0.600  |
| 20       | 7        | 145.300 | 140.400  | -4.900 |
| 20       | 8        | 133.300 | 132.700  | -0.600 |
| 20       | 9        | 145.200 | 143.100  | -2.100 |
| 20       | 10       | 140.100 | 139.800  | -0.300 |
| 20       | 11       | 142.200 | 139.800  | -2.400 |
| 20       | 12       | 138.100 | 138.500  | 0.400  |
| 20       | 13       | 139.000 | 135.300  | -3.700 |
| 20       | 14       | 148.300 | 148.600  | 0.300  |
| 20       | 15       | 130.900 | 126.500  | -4.400 |
| 20       | 16       | 147.900 | 150.400  | 2.500  |
| 20       | 17       | 150.000 | 146.000  | -4.000 |
| 20       | 18       | 142.900 | 143.900  | 1.000  |
| 20       | 19       | 141.200 | 137.100  | -4.100 |
| 20       | 20       | 135.100 | 133.600  | -1.500 |
| 20       | 21       | 140.600 | 140.200  | -0.400 |
| 20       | 22       | 131.000 | 132.500  | 1.500  |
| 20       | 23       | 155.900 | 154.200  | -1.700 |
| 20       | 24       | 135.400 | 135.300  | -0.100 |
| 20       | 25       | 136.900 | 135.700  | -1.200 |
| 20       | 26       | 140.000 | 137.500  | -2.500 |
| 20       | 27       | 137.200 | 134.200  | -3.000 |
| 35       | 28       | 145.800 | 148.200  | 2.400  |
| 35       | 29       | 143.800 | 144.100  | 0.300  |
| 35       | 30       | 134.200 | 129.500  | -4.700 |
| 35       | 31       | 124.500 | 125.700  | 1.200  |
| 35       | 32       | 133.800 | 132.600  | -1.200 |
| 30       | 33       | 142.000 | 142.600  | 0.600  |
| 30       | 34       | 131.400 | 131.200  | -0.200 |
| 30       | 35       | 148.700 | 143.800  | -4.900 |
| 30       | 36       | 141.900 | 140.900  | -1.000 |
| 30       | 37       | 143.700 | 142.400  | -1.300 |
|          | Max      | 155.900 | 154.200  | 2.500  |
|          | Average  | 139.508 | 138.211  | -1.297 |
|          | Min      | 124.500 | 125.700  | -4.900 |
|          | Std Dev  | 6.910   | 6.925    | 2.017  |



**37.16\_AVG PGOOD DEGLITCH**

|             |     |    |
|-------------|-----|----|
| Test Site   |     |    |
| Tester      |     |    |
| Test Number |     |    |
| Max Limit   | 200 | us |
| Min Limit   | 80  | us |

| kRad(Si) | 20      | 25      | 30      | 35      |
|----------|---------|---------|---------|---------|
| LL       | 80.000  | 80.000  | 80.000  | 80.000  |
| Min      | 126.500 | 130.400 | 131.200 | 125.700 |
| Average  | 138.991 | 135.000 | 140.180 | 136.020 |
| Max      | 154.200 | 148.000 | 143.800 | 148.200 |
| UL       | 200.000 | 200.000 | 200.000 | 200.000 |



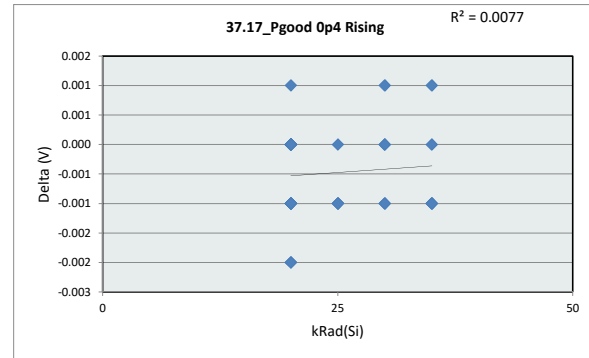
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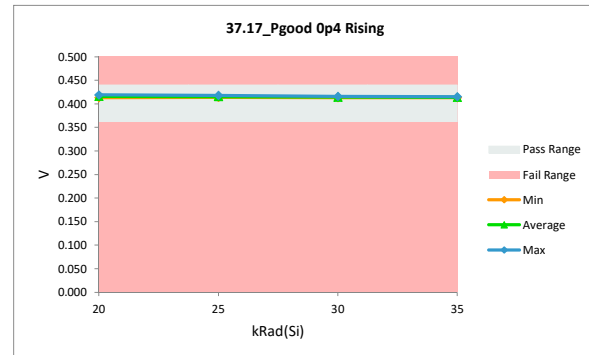
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

|             | 37.17_Pgood Op4 Rising |      |
|-------------|------------------------|------|
| Test Site   |                        |      |
| Tester      |                        |      |
| Test Number |                        |      |
| Unit        | V                      | V    |
| Max Limit   | 0.44                   | 0.44 |
| Min Limit   | 0.36                   | 0.36 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.416   | 0.416    | 0.000  |
| 25       | 2        | 0.416   | 0.415    | -0.001 |
| 25       | 3        | 0.415   | 0.414    | -0.001 |
| 25       | 4        | 0.419   | 0.418    | -0.001 |
| 25       | 5        | 0.415   | 0.414    | -0.001 |
| 20       | 6        | 0.416   | 0.415    | -0.001 |
| 20       | 7        | 0.419   | 0.419    | 0.000  |
| 20       | 8        | 0.415   | 0.414    | -0.001 |
| 20       | 9        | 0.418   | 0.418    | 0.000  |
| 20       | 10       | 0.416   | 0.415    | -0.001 |
| 20       | 11       | 0.418   | 0.417    | -0.001 |
| 20       | 12       | 0.417   | 0.417    | 0.000  |
| 20       | 13       | 0.416   | 0.416    | 0.000  |
| 20       | 14       | 0.416   | 0.416    | 0.000  |
| 20       | 15       | 0.416   | 0.417    | 0.001  |
| 20       | 16       | 0.414   | 0.413    | -0.001 |
| 20       | 17       | 0.417   | 0.416    | -0.001 |
| 20       | 18       | 0.417   | 0.416    | -0.001 |
| 20       | 19       | 0.415   | 0.415    | 0.000  |
| 20       | 20       | 0.418   | 0.416    | -0.002 |
| 20       | 21       | 0.418   | 0.418    | 0.000  |
| 20       | 22       | 0.416   | 0.415    | -0.001 |
| 20       | 23       | 0.416   | 0.416    | 0.000  |
| 20       | 24       | 0.416   | 0.416    | 0.000  |
| 20       | 25       | 0.418   | 0.416    | -0.002 |
| 20       | 26       | 0.416   | 0.416    | 0.000  |
| 20       | 27       | 0.417   | 0.417    | 0.000  |
| 35       | 28       | 0.414   | 0.413    | -0.001 |
| 35       | 29       | 0.414   | 0.414    | 0.000  |
| 35       | 30       | 0.416   | 0.415    | -0.001 |
| 35       | 31       | 0.413   | 0.414    | 0.001  |
| 35       | 32       | 0.415   | 0.414    | -0.001 |
| 30       | 33       | 0.416   | 0.415    | -0.001 |
| 30       | 34       | 0.414   | 0.413    | -0.001 |
| 30       | 35       | 0.416   | 0.416    | 0.000  |
| 30       | 36       | 0.415   | 0.415    | 0.000  |
| 30       | 37       | 0.412   | 0.413    | 0.001  |
|          | Max      | 0.419   | 0.419    | 0.001  |
|          | Average  | 0.416   | 0.415    | 0.000  |
|          | Min      | 0.412   | 0.413    | -0.002 |
|          | Std Dev  | 0.002   | 0.002    | 0.001  |



|             |                        |       |       |       |
|-------------|------------------------|-------|-------|-------|
|             | 37.17_Pgood Op4 Rising |       |       |       |
| Test Site   |                        |       |       |       |
| Tester      |                        |       |       |       |
| Test Number |                        |       |       |       |
| Max Limit   | 0.44                   | V     |       |       |
| Min Limit   | 0.36                   | V     |       |       |
| kRad(Si)    | 20                     | 25    | 30    | 35    |
| LL          | 0.360                  | 0.360 | 0.360 | 0.360 |
| Min         | 0.413                  | 0.414 | 0.413 | 0.413 |
| Average     | 0.416                  | 0.415 | 0.414 | 0.414 |
| Max         | 0.419                  | 0.418 | 0.416 | 0.415 |
| UL          | 0.440                  | 0.440 | 0.440 | 0.440 |

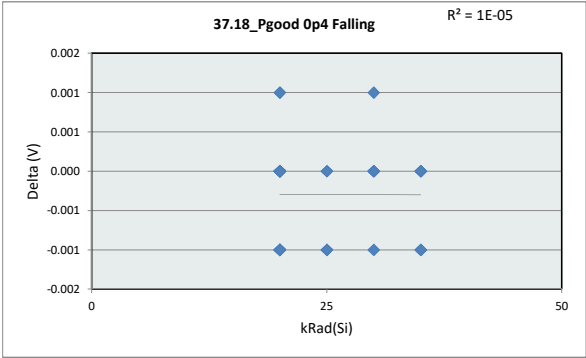


**LDR TID Report**  
**TPS7H4010-SEP**

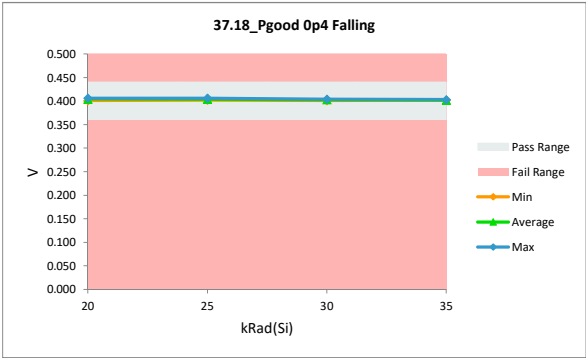
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

| 37.18_Pgood Op4 Falling |      |      |
|-------------------------|------|------|
| Test Site               |      |      |
| Tester                  |      |      |
| Test Number             |      |      |
| Unit                    | V    | V    |
| Max Limit               | 0.44 | 0.44 |
| Min Limit               | 0.36 | 0.36 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta  |
|----------|----------|---------|----------|--------|
| 25       | 1        | 0.404   | 0.404    | 0.000  |
| 25       | 2        | 0.404   | 0.403    | -0.001 |
| 25       | 3        | 0.403   | 0.402    | -0.001 |
| 25       | 4        | 0.407   | 0.406    | -0.001 |
| 25       | 5        | 0.403   | 0.403    | 0.000  |
| 20       | 6        | 0.404   | 0.404    | 0.000  |
| 20       | 7        | 0.406   | 0.406    | 0.000  |
| 20       | 8        | 0.403   | 0.403    | 0.000  |
| 20       | 9        | 0.406   | 0.406    | 0.000  |
| 20       | 10       | 0.404   | 0.403    | -0.001 |
| 20       | 11       | 0.406   | 0.406    | 0.000  |
| 20       | 12       | 0.404   | 0.404    | 0.000  |
| 20       | 13       | 0.405   | 0.404    | -0.001 |
| 20       | 14       | 0.404   | 0.404    | 0.000  |
| 20       | 15       | 0.404   | 0.405    | 0.001  |
| 20       | 16       | 0.402   | 0.401    | -0.001 |
| 20       | 17       | 0.405   | 0.404    | -0.001 |
| 20       | 18       | 0.405   | 0.405    | 0.000  |
| 20       | 19       | 0.404   | 0.403    | -0.001 |
| 20       | 20       | 0.406   | 0.405    | -0.001 |
| 20       | 21       | 0.405   | 0.406    | 0.001  |
| 20       | 22       | 0.404   | 0.404    | 0.000  |
| 20       | 23       | 0.404   | 0.404    | 0.000  |
| 20       | 24       | 0.404   | 0.404    | 0.000  |
| 20       | 25       | 0.406   | 0.405    | -0.001 |
| 20       | 26       | 0.405   | 0.404    | -0.001 |
| 20       | 27       | 0.405   | 0.405    | 0.000  |
| 35       | 28       | 0.402   | 0.402    | 0.000  |
| 35       | 29       | 0.402   | 0.402    | 0.000  |
| 35       | 30       | 0.404   | 0.403    | -0.001 |
| 35       | 31       | 0.402   | 0.402    | 0.000  |
| 35       | 32       | 0.403   | 0.402    | -0.001 |
| 30       | 33       | 0.404   | 0.404    | 0.000  |
| 30       | 34       | 0.403   | 0.402    | -0.001 |
| 30       | 35       | 0.404   | 0.404    | 0.000  |
| 30       | 36       | 0.403   | 0.403    | 0.000  |
| 30       | 37       | 0.400   | 0.401    | 0.001  |
| Max      |          | 0.407   | 0.406    | 0.001  |
| Average  |          | 0.404   | 0.404    | 0.000  |
| Min      |          | 0.400   | 0.401    | -0.001 |
| Std Dev  |          | 0.001   | 0.001    | 0.001  |



| 37.18_Pgood Op4 Falling |       |       |       |       |
|-------------------------|-------|-------|-------|-------|
| Test Site               |       |       |       |       |
| Tester                  |       |       |       |       |
| Test Number             |       |       |       |       |
| Max Limit               | 0.44  | V     |       |       |
| Min Limit               | 0.36  | V     |       |       |
| kRad(Si)                | 20    | 25    | 30    | 35    |
| LL                      | 0.360 | 0.360 | 0.360 | 0.360 |
| Min                     | 0.401 | 0.402 | 0.401 | 0.402 |
| Average                 | 0.404 | 0.404 | 0.403 | 0.402 |
| Max                     | 0.406 | 0.406 | 0.404 | 0.403 |
| UL                      | 0.440 | 0.440 | 0.440 | 0.440 |





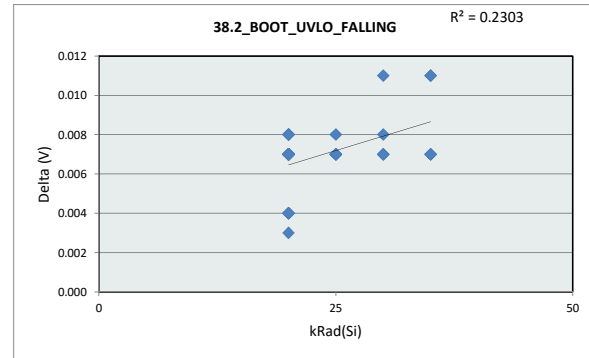
# LDR TID Report

## TPS7H4010-SEP

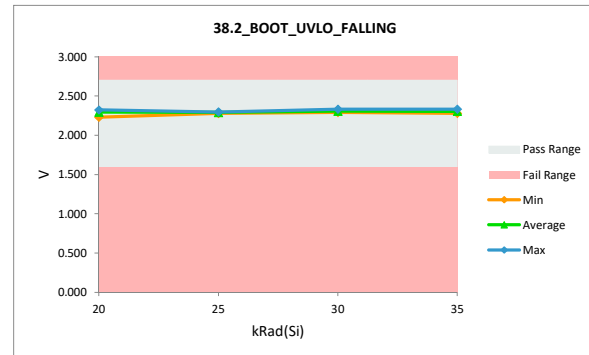
| Krad(Si) | Description      |
|----------|------------------|
| 20       | 20 KRAD BIASED   |
| 25       | 20 KRAD UNBIASED |
| 30       | 30 KRAD BIASED   |
| 35       | 30 KRAD UNBIASED |

|             | 38.2_BOOT_UVLO_FALLING |     |
|-------------|------------------------|-----|
| Test Site   |                        |     |
| Tester      |                        |     |
| Test Number |                        |     |
| Unit        | V                      | V   |
| Max Limit   | 2.7                    | 2.7 |
| Min Limit   | 1.6                    | 1.6 |

| kRad(Si) | Serial # | Pre_LDR | Post_LDR | Delta |
|----------|----------|---------|----------|-------|
| 25       | 1        | 2.283   | 2.290    | 0.007 |
| 25       | 2        | 2.279   | 2.286    | 0.007 |
| 25       | 3        | 2.286   | 2.294    | 0.008 |
| 25       | 4        | 2.272   | 2.279    | 0.007 |
| 25       | 5        | 2.290   | 2.297    | 0.007 |
| 20       | 6        | 2.294   | 2.301    | 0.007 |
| 20       | 7        | 2.247   | 2.254    | 0.007 |
| 20       | 8        | 2.308   | 2.312    | 0.004 |
| 20       | 9        | 2.294   | 2.301    | 0.007 |
| 20       | 10       | 2.315   | 2.319    | 0.004 |
| 20       | 11       | 2.315   | 2.322    | 0.007 |
| 20       | 12       | 2.221   | 2.229    | 0.008 |
| 20       | 13       | 2.304   | 2.312    | 0.008 |
| 20       | 14       | 2.301   | 2.308    | 0.007 |
| 20       | 15       | 2.286   | 2.294    | 0.008 |
| 20       | 16       | 2.308   | 2.312    | 0.004 |
| 20       | 17       | 2.304   | 2.312    | 0.008 |
| 20       | 18       | 2.265   | 2.272    | 0.007 |
| 20       | 19       | 2.283   | 2.290    | 0.007 |
| 20       | 20       | 2.290   | 2.297    | 0.007 |
| 20       | 21       | 2.254   | 2.261    | 0.007 |
| 20       | 22       | 2.290   | 2.297    | 0.007 |
| 20       | 23       | 2.279   | 2.286    | 0.007 |
| 20       | 24       | 2.290   | 2.297    | 0.007 |
| 20       | 25       | 2.304   | 2.308    | 0.004 |
| 20       | 26       | 2.312   | 2.315    | 0.003 |
| 20       | 27       | 2.283   | 2.290    | 0.007 |
| 35       | 28       | 2.312   | 2.319    | 0.007 |
| 35       | 29       | 2.322   | 2.333    | 0.011 |
| 35       | 30       | 2.283   | 2.290    | 0.007 |
| 35       | 31       | 2.297   | 2.304    | 0.007 |
| 35       | 32       | 2.268   | 2.279    | 0.011 |
| 30       | 33       | 2.290   | 2.297    | 0.007 |
| 30       | 34       | 2.301   | 2.308    | 0.007 |
| 30       | 35       | 2.279   | 2.290    | 0.011 |
| 30       | 36       | 2.326   | 2.333    | 0.007 |
| 30       | 37       | 2.304   | 2.312    | 0.008 |
|          | Max      | 2.326   | 2.333    | 0.011 |
|          | Average  | 2.290   | 2.297    | 0.007 |
|          | Min      | 2.221   | 2.229    | 0.003 |
|          | Std Dev  | 0.021   | 0.021    | 0.002 |



| 38.2_BOOT_UVLO_FALLING |       |       |       |       |
|------------------------|-------|-------|-------|-------|
| Test Site              |       |       |       |       |
| Tester                 |       |       |       |       |
| Test Number            |       |       |       |       |
| Max Limit              | 2.7   | V     |       |       |
| Min Limit              | 1.6   | V     |       |       |
| kRad(Si)               | 20    | 25    | 30    | 35    |
| LL                     | 1.600 | 1.600 | 1.600 | 1.600 |
| Min                    | 2.229 | 2.279 | 2.290 | 2.279 |
| Average                | 2.295 | 2.289 | 2.308 | 2.305 |
| Max                    | 2.322 | 2.297 | 2.333 | 2.333 |
| UL                     | 2.700 | 2.700 | 2.700 | 2.700 |



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