*Radiation Report*
# TPS7H3014-SEP Total Ionizing Dose (TID)

**TEXAS INSTRUMENTS**

**ABSTRACT**

This report discusses the total ionizing dose (TID) parametric results for TPS7H3014-SEP, Texas Instruments, 3V to 14V, four-channel radiation-hardness-assured power-supply sequencer. The study was done to determine the TID effects under high dose rate (HDR) at 50krad(Si). The results show that all samples passed within the specified limits at 50krad(Si).

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## Trademarks

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# 1 Device Information

## 1.1 Product Description

The TPS7H3014-SEP is an integrated, 3V to 14V, four-channel radiation-hardness-assured power-supply sequencer. Channel count can be expanded by connecting multiple devices in a daisy-chain configuration. The device provides sequence up and down control signals for integrated circuits (IC) with active high (*on*) inputs. In addition SEQ_DONE and PWRGD flags are provided to monitor the sequence and power status of the monitored power tree.

An accurate 599mV ±1% threshold voltage and a 24µA ±3% hysteresis current provide programmable rise and fall monitoring voltages. The rise and fall delay time is globally programmed through a single resistor. A time-to-regulation timer is provided to track the rising voltage on SENSEx.

In addition to these features, a FAULT detection pin is incorporated to monitor internally generated faults and provide increased system level reliability for power sequencing space applications.

The TPS7H3014-SEP is packaged in a 24-pin TSSOP (thin-shrink small outline package) package.

## 1.2 Device Details

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

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

| TID Exposure Details | |
|---|---|
| TI Device | TPS7H3014-SEP |
| TI Part Name | TPS7H3014MPWTSEP |
| Package | 24-pin TSSOP (PW) |
| Technology | LBC7 |
| Quantity Tested | 34 Units |
| Lot Accept/Reject | All levels tested and passed up to 50krad(Si) |
| HDR Radiation Facility | Texas Instruments, Dallas, TX |
| HDR Dose Level | 20krad(Si), 30krad(Si), 50krad(Si) |
| HDR Dose Rate | 163.7473 rads(Si)/s |
| HDR Radiation Source | Gammacell (Hopewell, GR420) Co-60 |
| Irradiation Temperature | Ambient room temperature |
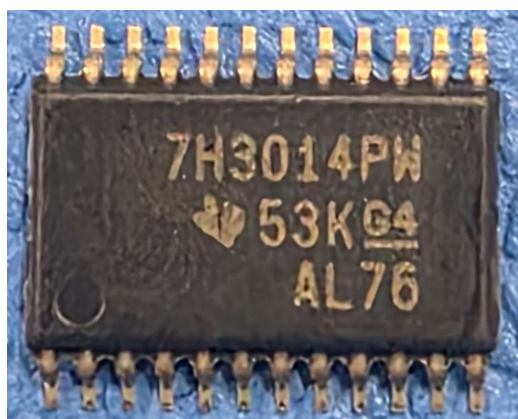


**Figure 1-1. TPS7H3014-SEP Device**

# 2 Total Dose Test Setup

## 2.1 Test Overview

The TPS7H3014-SEP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, Condition A was used. 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 TPS7H3014-SEP HDR exposure was performed on biased and unbiased devices in a Co-60 gamma cell at TI facility in Dallas, Texas. The unattenuated dose rate of this cell is 168.347 rads(Si)/s. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and full post-radiation electrical evaluation using Texas Instruments ATE was conducted. ATE test limits are set per data sheet electrical limits based on qualification and characterization data. Post-radiation measurements were taken 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 exposure were tested in two conditions (biased and unbiased) as described in the following sections.

### 2.3.1 Unbiased

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

### 2.3.2 Biased

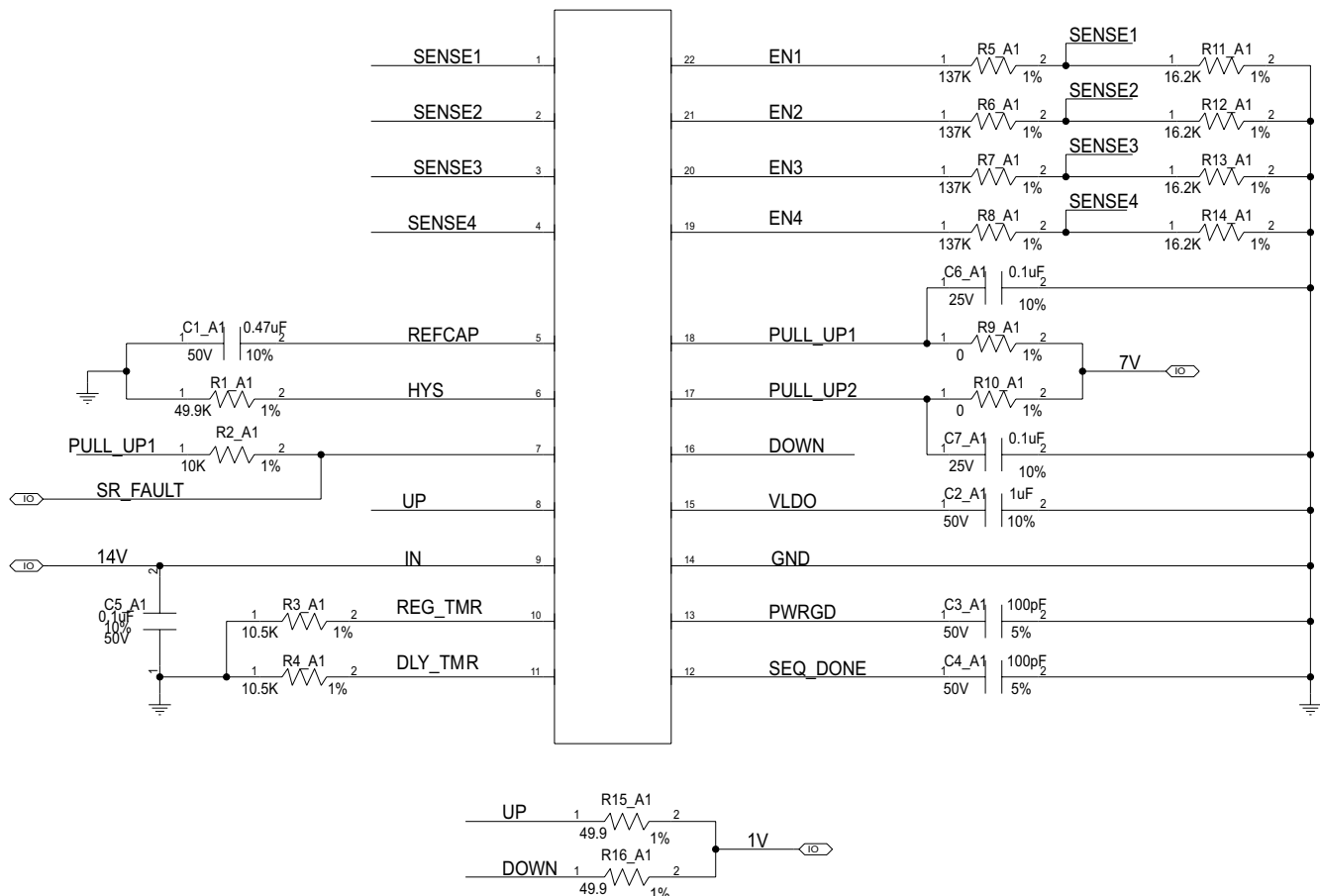Figure 2-1 shows the diagram for HDR exposure with biased condition.



**Figure 2-1. Bias Diagram Used in TID Exposure**

## 2.4 Test Configuration and Condition

HDR devices were stressed at 50krad(Si) for biased and unbiased conditions.

**Table 2-1. HDR: 50krad(Si)/s Biased Device Information**

| Total Samples: 19 units | | | |
|---|---|---|---|
| Exposure Levels | | | |
| Control | 20krad(Si) | 30krad(Si) | 50krad(Si) |
| 31, 32, 33, 34 | 1, 2, 3, 4, 5 | 11, 12, 13, 14, 15 | 21, 22, 23, 24, 25 |

**Table 2-2. HDR: 50krad(Si)/s Unbiased Device Information**

| Total Samples: 19 units | | | |
|---|---|---|---|
| Exposure Levels | | | |
| Control | 20 krad(Si) | 30 krad(Si) | 50krad(Si) |
| 31, 32, 33, 34 | 6, 7, 8, 9, 10 | 16, 17, 18, 19, 20 | 26, 27, 28, 29, 30 |

# 3 TID Characterization Test Results

## 3.1 TID Characterization Summary Results

The parametric data for the TPS7H3014-SEP passes at 50krad(Si) HDR TID irradiation. The drifts of the electrical parameters through HDR were within the data sheet limits.

Overall, the TPS7H3014-SEP showed a strong degree of hardness to HDR TID irradiation at 50krad(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 electrical performance characteristics specified in the data sheet electrical parameters. See *TPS7H3014-SP and TPS7H3014-SEP Radiation-Hardened, 14V, 4-Channel Sequencer* data sheet for the data sheet electrical parameters and associated tests.

See the appendix for HDR report up to 50krad(Si).

## 3.2 Specification Compliance Matrix

### 3.2.1 Electrical Characteristics

**Table 3-1. Electrical Characteristics**

| Parameter | Test Conditions | Sub-Group | MIN | TYP | MAX | UNIT | Test Number |
|---|---|---|---|---|---|---|---|
| SUPPLY VOLTAGES AND CURRENTS | | | | | | | |
| $V_{IN}$ quiescent current | In waiting to sequence up and down states with all outputs floating. | 1, 2, 3 | | 2.5 | 4 | mA | 15.1 and 15.2 |
| $V_{IN}$ rising undervoltage lockout | | 1, 2, 3 | 2.72 | 2.79 | 2.84 | V | 15.128 |
| $V_{IN}$ falling undervoltage lockout | | 1, 2, 3 | 2.59 | 2.64 | 2.69 | | 15.129 |
| Internal linear regulator output voltage | 5V ≤ VIN ≤ 14V | 1, 2, 3 | 3.19 | 3.29 | 3.38 | V | 15.7 |
| | $V_{IN}$ < 3.24V | | 97% | 99% | | x $V_{IN}$ | 15.6 |
| Internal bandgap voltage | | 1, 2, 3 | 1.188 | 1.2 | 1.212 | | 15.8 and 15.9 |
| Power on reset voltage | 1.6V ≤ $V_{PULL\_UPx}$ ≤ 7V, $V_{OL}$ ≤ 320mV with $I_{ENx}$ = −2mA | | | 1.41 | 2 | V | 15.130, 15.131, 15.132, 15.133, 15.134, 15.135, 15.136, 15.137, 15.138, 15.139, 15.140, 15.141 |
| Power on reset voltage | $V_{IN}$ = 0V, $V_{OL}$ ≤ 320mV with $I_{ENx}$ = −100µA | | | 0.89 | 1.4 | | 15.142, 15.143, 15.144, 15.145, 15.146, 15.147 |
| SENSE1 TO SENSE4, UP AND DOWN COMPARATOR INPUTS | | | | | | | |
| Threshold voltage at SENSEx | | 1, 2, 3 | 593 | 599 | 605 | mV | 19.3, 19.4, 19.5, 19.6, 19.7, 19.8, 19.9, 19.10, 19.14, 19.15, 19.16, 19.17, 19.18, 19.19, 19.20, 19.21, 19.25, 19.26, 19.27, 19.28, 19.29, 19.30, 19.31, 19.32, 19.36, 19.37, 19.38, 19.39, 19.40, 19.41, 19.42, 19.43 |
| SENSEx hysteresis current | $V_{SENSEx}$ = 700mV | 1, 2, 3 | 23.28 | 24 | 24.72 | µA | 15.24, 15.25, 15.26, 15.27, 15.28, 15.29, 15.30, 15.31 |
| Input leakage current at SENSEx | $V_{SENSEx}$ = 500mV | 1, 2, 3 | | 2 | 100 | nA | 15.13, 15.14, 15.15, 15.16, 15.20, 15.21, 15.22, 15.23 |
| Rising threshold voltage at UP | $V_{UP}$ rising to 1V | 1, 2, 3 | 580 | 598 | 615 | mV | 19.1, 19.12, 19.23, 19.34 |
| Falling threshold voltage at DOWN | $V_{DOWN}$ falling from 1V | 1, 2, 3 | 483 | 498 | 512 | mV | 19.2, 19.13, 19.24, 19.35 |
| UP and DOWN hysteresis voltage | | 1, 2, 3 | | 100 | | mV | 19.11, 19.22, 19.33, 19.44 |
| Input leakage current at UP and DOWN | $V_{UP}$ = $V_{DOWN}$ = 500mV | 1, 2, 3 | | 2 | 100 | nA | 15.11, 15.12, 15.18, 15.19 |
| Channel 2, 3, 4 turn off voltage | | 1, 2, 3 | 87% | 89% | 91% | x VLDO | 15.148, 15.149, 15.150 |
| EN1 TO EN4, SEQ_DONE AND PWRGD PUSH PULL OUTPUTS | | | | | | | |
| Low-level ENx output voltage | 1.6V ≤ $V_{PULL\_UP1}$ ≤ 7V | $I_{LOAD}$ = −2mA | 1, 2, 3 | | | 10% | x $V_{PULL\_UP1}$ | 15.56, 15.57, 15.58, 15.59, 15.62, 15.63, 15.64, 15.65, 15.68, 15.69, 15.70, 15.71, 15.74, 15.75, 15.76, 15.77 |
| | | $I_{LOAD}$ = −10mA | 1, 2, 3 | | | 25% | | 15.104, 15.105, 15.106, 15.107, 15.110, 15.111, 15.112, 15.113, 15.116, 15.117, 15.118, 15.119, 15.122, 15.123, 15.124, 15.125 |
| High-level ENx output voltage | 1.6V ≤ $V_{PULL\_UP1}$ ≤ 7V | $I_{LOAD}$ = 2mA | 1, 2, 3 | 90% | | | | 15.32, 15.33, 15.34, 15.35, 15.38, 15.39, 15.40, 15.41, 15.44, 15.45, 15.46, 15.47, 15.50, 15.51, 15.52, 15.53 |
| | | $I_{LOAD}$ = 10mA | 1, 2, 3 | 70% | | | | 15.80, 15.81, 15.82, 15.83, 15.86, 15.87, 15.88, 15.89, 15.92, 15.93, 15.94, 15.95, 15.98, 15.99, 15.100, 15.101 |
| Low-level SEQ_DONE output voltage | 1.6V ≤ $V_{PULL\_UP2}$ ≤ 7V | $I_{LOAD}$ = −2mA | 1, 2, 3 | | | 10% | x $V_{PULL\_UP2}$ | 15.60, 15.66, 15.72, 15.78 |
| | | $I_{LOAD}$ = −10mA | 1, 2, 3 | | | 25% | | 15.108, 15.114, 15.120, 15.126 |
| High-level SEQ_DONE output voltage | 1.6V ≤ $V_{PULL\_UP2}$ ≤ 7V | $I_{LOAD}$ = 2mA | 1, 2, 3 | 90% | | | | 15.36, 15.42, 15.48, 15.54 |
| | | $I_{LOAD}$ = 10mA | 1, 2, 3 | 70% | | | | 15.84, 15.90, 15.96, 15.102 |
| Low-level PWRGD output voltage | 1.6V ≤ $V_{PULL\_UP2}$ ≤ 7V | $I_{LOAD}$ = −2mA | 1, 2, 3 | | | 10% | | 15.61, 15.67, 15.73, 15.79 |
| | | $I_{LOAD}$ = −10mA | 1, 2, 3 | | | 25% | | 15.109, 15.115, 15.121, 15.127 |
| High-level PWRGD output voltage | 1.6V ≤ $V_{PULL\_UP2}$ ≤ 7V | $I_{LOAD}$ = 2mA | 1, 2, 3 | 90% | | | | 15.37, 15.43, 15.49, 15.55 |
| | | $I_{LOAD}$ = 10mA | 1, 2, 3 | 70% | | | | 15.85, 15.91, 15.97, 15.103 |

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

| Parameter | Test Conditions | | Sub-Group | MIN | TYP | MAX | UNIT | Test Number |
|---|---|---|---|---|---|---|---|---|
| PULL_UPx leakage current | $V_{PULL\_UPx}$ = 7V | | 1, 2, 3 | | 48 | 121 | µA | 15.152, 15.153, 15.154, 15.155 |
| Enable rising output voltage slew rate | 10% to 90% of $V_{PULL\_UP1}$,$R_{LOAD}$ = 50kΩ,$C_{LOAD}$ = 100pF | 1.6V ≤ $V_{PULL\_UP1}$ ≤ 7V | 9, 10, 11 | 17 | 125 | | V/µs | 16.1, 16.2, 16.3, 16.4, 16.13, 16.14, 16.15, 16.16, 16.25, 16.26, 16.27, 16.28, 16.37, 16.38, 16.39, 16.40 |
| SEQ_DONE rising output voltage slew rate | 10% to 90% of VPULL_UP2,RLOAD = 50kΩ,CLOAD = 100pF | 1.6V ≤ $V_{PULL\_UP2}$ ≤ 7V | 9, 10, 11 | 17 | 125 | | | 16.6, 16.18, 16.30, 16.42 |
| PWRGD rising output voltage slew rate | | 7V | 9, 10, 11 | 17 | 125 | | | 16.5, 16.17, 16.29, 16.41 |
| Enable falling output voltage slew rate | 90% to 10% of VPULL_UP1,RLOAD = 50kΩ,CLOAD = 100pF | 1.6V ≤ $V_{PULL\_UP1}$ ≤ 7V | 9, 10, 11 | 44 | 126 | | | 16.7, 16.8, 16.9, 16.10, 16.19, 16.20, 16.21, 16.22, 16.31, 16.32, 16.33, 16.34, 16.43, 16.44, 16.45, 16.46 |
| SEQ_DONE falling output voltage slew rate | | 1.6V ≤ $V_{PULL\_UP2}$ ≤ 7V | 9, 10, 11 | 44 | 126 | | | 16.12, 16.24, 16.36, 16.48 |
| PWRGD falling output voltage slew rate | | | 9, 10, 11 | 44 | 126 | | | 16.11, 16.23, 16.35, 16.47 |
| EN PMOS source output resistance | $I_{LOAD}$ = 2mA | 1.6V ≤ $V_{PULL\_UP1}$ ≤ 3.3V | 1, 2, 3 | | 18 | 40 | Ω | 20.1, 20.2, 20.3, 20.4, 20.7, 20.8, 20.9, 20.10 |
| | | 3.3V ≤ $V_{PULL\_UP1}$ ≤ 7V | 1, 2, 3 | | 7 | 20 | | 20.13, 20.14, 20.15, 20.16, 20.19, 20.20, 20.21, 20.22 |
| SEQ_DONE PMOS source output resistance | $I_{LOAD}$ = 2mA | 1.6V ≤ $V_{PULL\_UP2}$ ≤ 3.3V | 1, 2, 3 | | 18 | 40 | | 20.6 and 20.12 |
| | | 3.3V ≤ $V_{PULL\_UP2}$ ≤ 7V | 1, 2, 3 | | 7 | 20 | | 20.18 and 20.24 |
| PWRGD PMOS source output resistance | $I_{LOAD}$ = 2mA | 1.6V ≤ $V_{PULL\_UP2}$ ≤ 3.3V | 1, 2, 3 | | 18 | 40 | | 20.5 and 20.11 |
| | | 3.3V ≤ $V_{PULL\_UP2}$ ≤ 7V | 1, 2, 3 | | 7 | 20 | | 20.17 and 20.23 |
| EN NMOS sink output resistance | $I_{LOAD}$ = −2mA, 1.6V ≤ $V_{PULL\_UP1}$ ≤ 7V | | 1, 2, 3 | | 7 | 28 | | 20.25, 20.26, 20.27, 20.28, 20.31, 20.32, 20.33, 20.34, 20.37, 20.38, 20.39, 20.40, 20.43, 20.44, 20.45, 20.46 |
| SEQ_DONE NMOS sink output resistance | $I_{LOAD}$ = −2mA, 1.6V ≤ $V_{PULL\_UP1}$ ≤ 7V | | 1, 2, 3 | | 7 | 28 | | 20.30, 20.36, 20.42, 20.48 |
| PWRGD NMOS sink output resistance | $I_{LOAD}$ = −2mA, 1.6V ≤ $V_{PULL\_UP1}$ ≤ 7V | | 1, 2, 3 | | 7 | 28 | | 20.29, 20.35, 20.41, 20.47 |
| FAULT OUTPUT | | | | | | | | |
| FAULT pull down resistance | $I_{FAULT}$ = 100µA | | 1, 2, 3 | | 131 | 512 | Ω | 20.49 and 20.50 |
| FAULT leakage current | $V_{FAULT}$ =7V | | 1, 2, 3 | | 23 | 600 | nA | 15.10 and 15.17 |
| DELAY AND TIME TO REGULATION TIMERS | | | | | | | | |

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

| Parameter | Test Conditions | Sub-Group | MIN | TYP | MAX | UNIT | Test Number |
|---|---|---|---|---|---|---|---|
| Delay time | $R_{DLY\_TMR}$ = 10.5kΩ | 1, 2, 3 | 0.205 | 0.268 | 0.342 | ms | 17.49, 17.50, 17.51, 17.52, 17.53, 17.54, 17.55, 17.56, 17.57, 17.58, 17.59, 17.80, 17.81, 17.82, 17.83, 17.84, 17.85, 17.86, 17.87, 17.88, 17.89, 17.90, 17.111, 17.112, 17.113, 17.114, 17.115, 17.116, 17.117, 17.118, 17.119, 17.120, 17.121, 17.142, 17.143, 17.144, 17.145, 17.146, 17.147, 17.148, 17.149, 17.150, 17.151, 17.152 |
| | $R_{DLY\_TMR}$ = 619kΩ | 1, 2, 3 | 10.77 | 12.5 | 14.14 | | 17.60, 17.61, 17.62, 17.63, 17.64, 17.65, 17.66, 17.67, 17.68, 17.69, 17.91, 17.92, 17.93, 17.94, 17.95, 17.96, 17.97, 17.98, 17.99, 17.100, 17.122, 17.123, 17.124, 17.125, 17.126, 17.127, 17.128, 17.129, 17.130, 17.131, 17.153, 17.154, 17.155, 17.156, 17.157, 17.158, 17.159, 17.160, 17.161, 17.162 |
| | $R_{DLY\_TMR}$ = 1.18MΩ | 1, 2, 3 | 20 | 23.37 | 27.2 | | 17.70, 17.71, 17.72, 17.73, 17.74, 17.75, 17.76, 17.77, 17.78, 17.79, 17.101, 17.102, 17.103, 17.104, 17.105, 17.106, 17.107, 17.108, 17.109, 17.110, 17.132, 17.133, 17.134, 17.135, 17.136, 17.137, 17.138, 17.139, 17.140, 17.141, 17.163, 17.164, 17.165, 17.166, 17.167, 17.168, 17.169, 17.170, 17.171, 17.172 |
| Time to regulation | $R_{REG\_TMR}$ = 10.5kΩ | 1, 2, 3 | 0.197 | 0.264 | 0.34 | | 18.1, 18.2, 18.3, 18.4, 18.13, 18.14, 18.15, 18.16, 18.25, 18.26, 18.27, 18.28, 18.37, 18.38, 18.39, 18.40 |
| | $R_{REG\_TMR}$ = 619kΩ | 1, 2, 3 | 10.8 | 12.4 | 14.1 | | 18.5, 18.6, 18.7, 18.8, 18.17, 18.18, 18.19, 18.20, 18.29, 18.30, 18.31, 18.32, 18.41, 18.42, 18.43, 18.44 |
| | $R_{REG\_TMR}$ = 1.18MΩ | 1, 2, 3 | 20.3 | 23.63 | 27.2 | | 18.9, 18.10, 18.11, 18.12, 18.21, 18.22, 18.23, 18.24, 18.33, 18.34, 18.35, 18.36, 18.45, 18.46, 18.47, 18.48 |

### 3.2.2 Timing Requirements

**Table 3-2. Timing Requirements**

| Parameter | Test Conditions | Sub-Group | MIN | TYP | MAX | UNIT | Test Number |
|---|---|---|---|---|---|---|---|
| Start-up delay time | $V_{REFCAP} \geq 1.1V$ | 1, 2, 3 | | | 2.8 | ms | 15.151 |
| ENx propagation delay | DLY_TMR = Open, $V_{OVERDRIVE}$ = 10mV, $V_{PULL\_UPx}$ = 1.6V, from 50% of IN to 50% OUT | 1, 2, 3 | | 3.4 | 6.5 | µs | 17.1, 17.2, 17.3, 17.4, 17.7, 17.8, 17.9, 17.10, 17.13, 17.14, 17.15, 17.16, 17.19, 17.20, 17.21, 17.22, 17.25, 17.26, 17.27, 17.28, 17.31, 17.32, 17.33, 17.34, 17.37, 17.38, 17.39, 17.40, 17.43, 17.44, 17.45, 17.46 |
| SEQ_DONE propagation delay | DLY_TMR = Open, $V_{OVERDRIVE}$ = 10mV | 1, 2, 3 | | 3.4 | 6.5 | | 17.5, 17.11, 17.17, 17.23, 17.29, 17.35, 17.41, 17.47 |
| PWRGD propagation delay | DLY_TMR = Open, $V_{OVERDRIVE}$ = 10mV | 1, 2, 3 | | 3.4 | 6.5 | | 17.6, 17.12, 17.18, 17.24, 17.30, 17.36, 17.42, 17.48 |
| State machine fault propagation delay | Out of order fault | 1, 2, 3 | | 3.4 | 4.3 | | 24.1 and 24.2 |
| $V_{UP}$ rising minimum time for valid UP | | 4, 5, 6 | | 0.27 | 0.7 | µs | 23.1 and 23.2 |
| $V_{DOWN}$ rising minimum time for valid DOWN | | 4, 5, 6 | | 0.42 | 0.9 | | 23.3 and 23.4 |
| Rising threshold on VSENSEx hold time | | 4, 5, 6 | | 0.84 | 1.6 | µs | 22.1, 22.2, 22.3, 22.4, 22.5, 22.6, 22.7, 22.8 |
| Falling threshold on VSENSEx hold time | | 4, 5, 6 | | 0.35 | 1 | µs | 22.9, 22.10, 22.11, 22.12, 22.13, 22.14, 22.15, 22.16 |

# 4 Applicable and Reference Documents

## 4.1 Applicable Documents

- Texas Instruments, *TPS7H3014-SP and TPS7H3014-SEP Radiation-Hardened, 14V, 4-Channel Sequencer*, data sheet.
- Texas Instruments, *TPS7H3014EVM Evaluation Module*, user's guide.
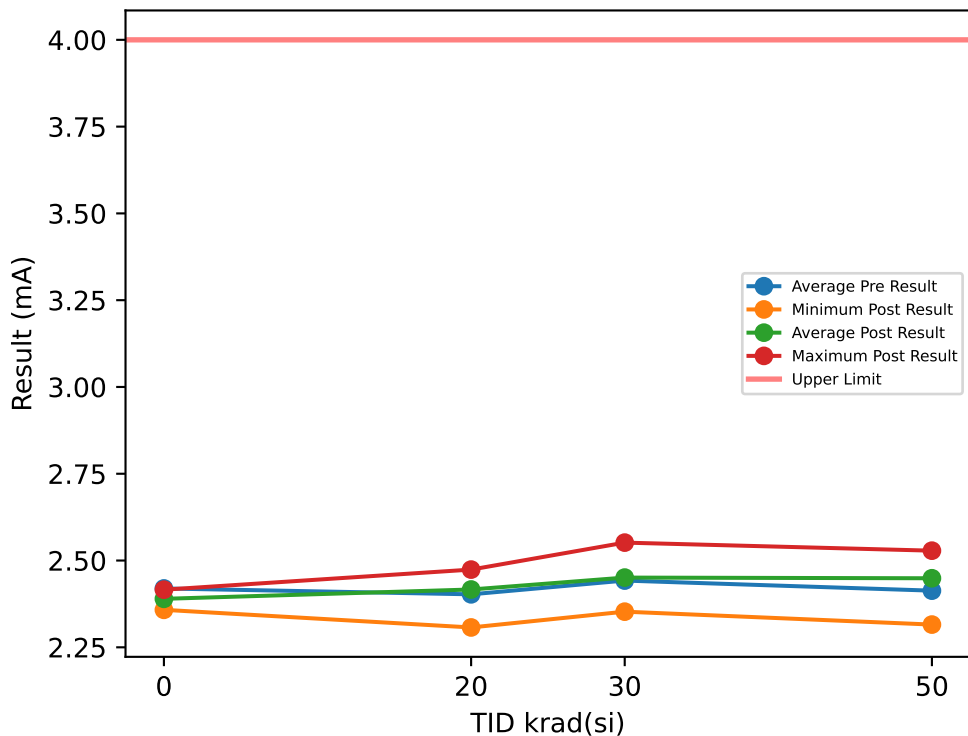
## 4.2 Reference Documents

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.

# 5 Appendix: HDR TID Report Data

This appendix contains the HDR TID report data.

# Device Test: 15.1   IQ_SEQDOWN(_IQ|QUIESCENT_CURRENT/IN//3/0/0/0/@IQ_SEQDOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 4.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.3941 | 2.3982 | 0.0041 |
| 2 | 20 | Bias | 2.3738 | 2.4012 | 0.0274 |
| 3 | 20 | Bias | 2.4003 | 2.44 | 0.0397 |
| 4 | 20 | Bias | 2.2916 | 2.3072 | 0.0156 |
| 5 | 20 | Bias | 2.4489 | 2.4598 | 0.0109 |
| 6 | 20 | Unbiased | 2.4273 | 2.4183 | -0.009 |
| 7 | 20 | Unbiased | 2.4462 | 2.4739 | 0.0277 |
| 8 | 20 | Unbiased | 2.3719 | 2.3636 | -0.0083 |
| 9 | 20 | Unbiased | 2.4285 | 2.4576 | 0.0291 |
| 10 | 20 | Unbiased | 2.4439 | 2.4458 | 0.0019 |
| 11 | 30 | Bias | 2.3986 | 2.3527 | -0.0459 |
| 12 | 30 | Bias | 2.4767 | 2.3871 | -0.0896 |
| 13 | 30 | Bias | 2.4014 | 2.5153 | 0.1139 |
| 14 | 30 | Bias | 2.4042 | 2.4129 | 0.0087 |
| 15 | 30 | Bias | 2.5124 | 2.4324 | -0.08 |
| 16 | 30 | Unbiased | 2.383 | 2.5366 | 0.1536 |
| 17 | 30 | Unbiased | 2.5358 | 2.3982 | -0.1376 |
| 18 | 30 | Unbiased | 2.4167 | 2.5516 | 0.1349 |
| 19 | 30 | Unbiased | 2.4441 | 2.4681 | 0.024 |
| 20 | 30 | Unbiased | 2.4496 | 2.4538 | 0.0042 |
| 21 | 50 | Bias | 2.3933 | 2.4645 | 0.0712 |
| 22 | 50 | Bias | 2.3286 | 2.4225 | 0.0939 |
| 23 | 50 | Bias | 2.4652 | 2.3155 | -0.1497 |
| 24 | 50 | Bias | 2.4209 | 2.4816 | 0.0607 |
| 25 | 50 | Bias | 2.4576 | 2.51 | 0.0524 |
| 26 | 50 | Unbiased | 2.4731 | 2.5284 | 0.0553 |
| 27 | 50 | Unbiased | 2.3516 | 2.3901 | 0.0385 |
| 28 | 50 | Unbiased | 2.4238 | 2.4663 | 0.0425 |
| 29 | 50 | Unbiased | 2.4261 | 2.504 | 0.0779 |
| 30 | 50 | Unbiased | 2.3919 | 2.4062 | 0.0143 |
| 31 | 0 | Correlation | 2.4122 | 2.4123 | 0.0001 |
| 32 | 0 | Correlation | 2.3723 | 2.3724 | 0.0001 |
| 33 | 0 | Correlation | 2.4154 | 2.416 | 0.0006 |
| 34 | 0 | Correlation | 2.4784 | 2.358 | -0.1204 |

## Test Statistics (mA)
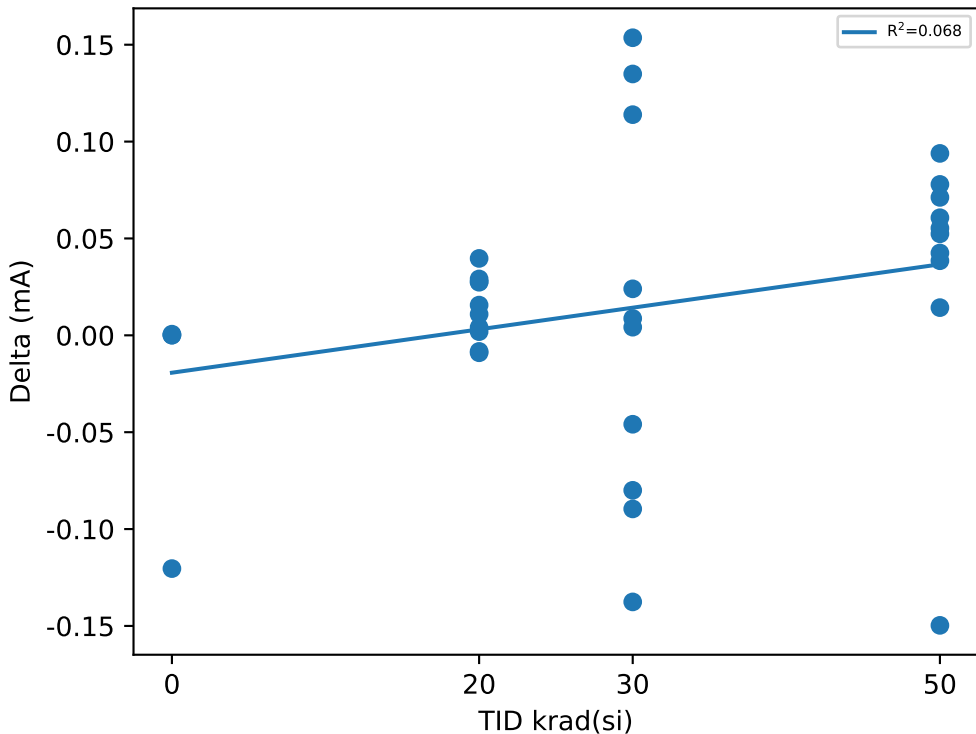
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.3723 | 2.4196 | 2.4784 | 0.043845 | 2.358 | 2.3897 | 2.416 | 0.028906 | -0.1204 | -0.0299 | 0.0006 | 0.060334 |
| 20 | 2.2916 | 2.4026 | 2.4489 | 0.048536 | 2.3072 | 2.4166 | 2.4739 | 0.051193 | -0.009 | 0.01391 | 0.0397 | 0.016795 |
| 30 | 2.383 | 2.4423 | 2.5358 | 0.051749 | 2.3527 | 2.4509 | 2.5516 | 0.066845 | -0.1376 | 0.00862 | 0.1536 | 0.10009 |
| 50 | 2.3286 | 2.4132 | 2.4731 | 0.047613 | 2.3155 | 2.4489 | 2.5284 | 0.065386 | -0.1497 | 0.0357 | 0.0939 | 0.068801 |
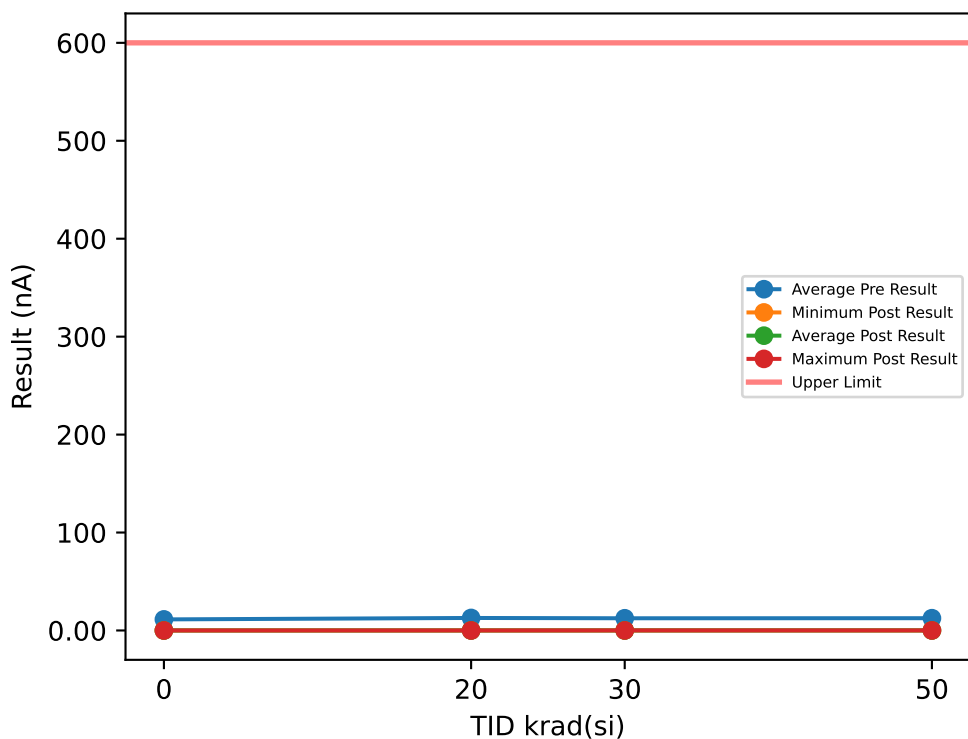
# Device Test: 15.10  SR_FAULT_ILKG(_LEAKAGE|SR_FAULT/ILKG_SR_FAULTb//3/0/0/0/@SR_FAULT_ILKG )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



R²=0.790

## Test Results (Upper Limit = 600.0 (nA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 13.3 | 0.0249 | 0.0116 |
| 2 | 20 | Bias | 14.1 | 0.027 | 0.0129 |
| 3 | 20 | Bias | 13.6 | 0.0251 | 0.0115 |
| 4 | 20 | Bias | 13.1 | 0.0223 | 0.0092 |
| 5 | 20 | Bias | 11.7 | 0.0203 | 0.0086 |
| 6 | 20 | Unbiased | 12.8 | 0.0313 | 0.0185 |
| 7 | 20 | Unbiased | 13.9 | 0.0316 | 0.0177 |
| 8 | 20 | Unbiased | 11.7 | 0.0268 | 0.0151 |
| 9 | 20 | Unbiased | 11.8 | 0.0261 | 0.0143 |
| 10 | 20 | Unbiased | 11.7 | 0.0266 | 0.0149 |
| 11 | 30 | Bias | 17.7 | 0.0426 | 0.0249 |
| 12 | 30 | Bias | 12.5 | 0.0646 | 0.0521 |
| 13 | 30 | Bias | 12.4 | 0.0428 | 0.0304 |
| 14 | 30 | Bias | 10.7 | 0.041 | 0.0303 |
| 15 | 30 | Bias | 12.5 | 0.034 | 0.0215 |
| 16 | 30 | Unbiased | 11.1 | 0.0333 | 0.0222 |
| 17 | 30 | Unbiased | 11.6 | 0.0322 | 0.0206 |
| 18 | 30 | Unbiased | 11.7 | 0.0306 | 0.0189 |
| 19 | 30 | Unbiased | 13.8 | 0.0317 | 0.0179 |
| 20 | 30 | Unbiased | 10.5 | 0.0427 | 0.0322 |
| 21 | 50 | Bias | 10.5 | 0.0444 | 0.0339 |
| 22 | 50 | Bias | 14.8 | 0.0477 | 0.0329 |
| 23 | 50 | Bias | 12 | 0.0703 | 0.0583 |
| 24 | 50 | Bias | 12.8 | 0.0529 | 0.0401 |
| 25 | 50 | Bias | 10.9 | 0.055 | 0.0441 |
| 26 | 50 | Unbiased | 11.5 | 0.0436 | 0.0321 |
| 27 | 50 | Unbiased | 11.6 | 0.0608 | 0.0492 |
| 28 | 50 | Unbiased | 14.4 | 0.0679 | 0.0535 |
| 29 | 50 | Unbiased | 13.6 | 0.0634 | 0.0498 |
| 30 | 50 | Unbiased | 13.1 | 0.065 | 0.0519 |
| 31 | 0 | Correlation | 12.8 | 0.0128 | 0 |
| 32 | 0 | Correlation | 10.8 | 0.0107 | -0.0001 |
| 33 | 0 | Correlation | 12 | 0.0121 | 0.0001 |
| 34 | 0 | Correlation | 9.6 | 0.0125 | 0.0029 |
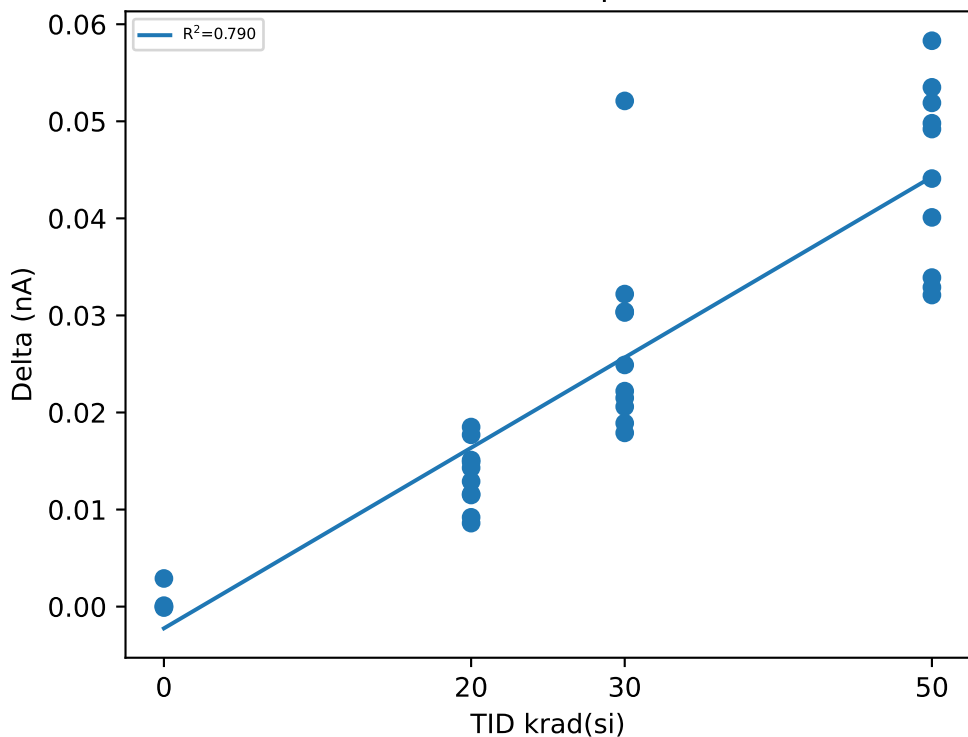
## Test Statistics (nA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9.6 | 11.3 | 12.8 | 1.4 | 0.0107 | 0.012025 | 0.0128 | 0.00092871 | -0.0001 | 0.000725 | 0.0029 | 0.0014523 |
| 20 | 11.7 | 12.77 | 14.1 | 0.97188 | 0.0203 | 0.0262 | 0.0316 | 0.0034843 | 0.0086 | 0.01343 | 0.0185 | 0.0033036 |
| 30 | 10.5 | 12.45 | 17.7 | 2.0914 | 0.0306 | 0.03955 | 0.0646 | 0.010138 | 0.0179 | 0.0271 | 0.0521 | 0.010146 |
| 50 | 10.5 | 12.52 | 14.8 | 1.4597 | 0.0436 | 0.0571 | 0.0703 | 0.0097788 | 0.0321 | 0.04458 | 0.0583 | 0.0094075 |

# Device Test: 15.100 VOH_EN_10MA(_EVEL|VOH/EN3/7/14/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

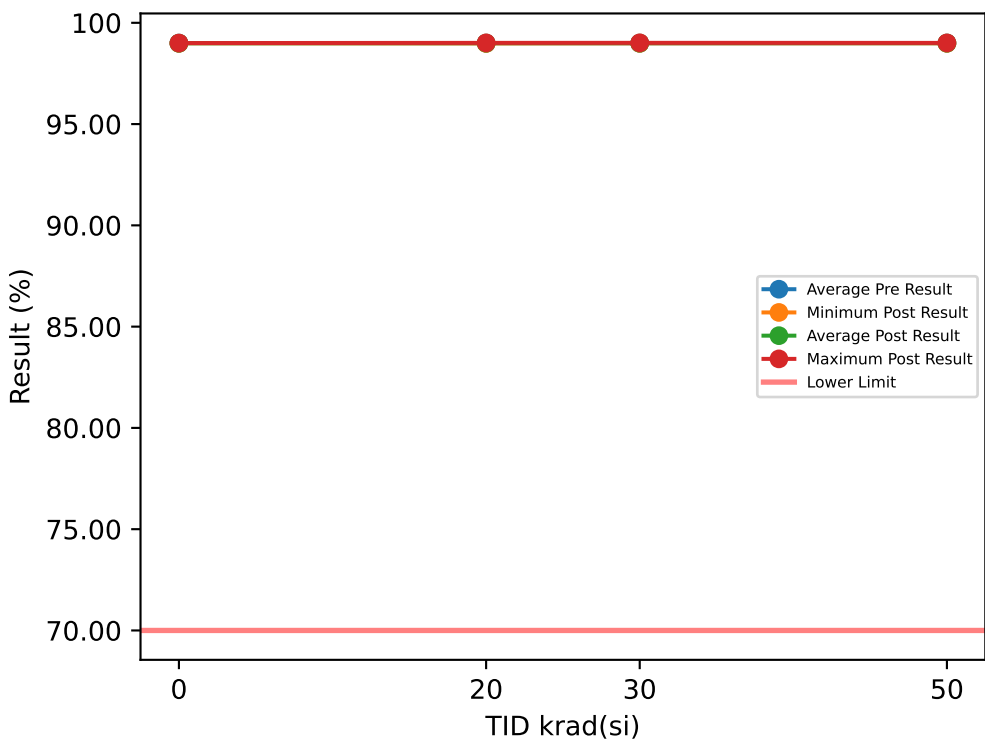| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 98.983 | 98.989 | 0.0065 |
| 2 | 20 | Bias | 98.982 | 98.989 | 0.0061 |
| 3 | 20 | Bias | 98.976 | 98.98 | 0.0042 |
| 4 | 20 | Bias | 99.004 | 99.009 | 0.0048 |
| 5 | 20 | Bias | 98.995 | 99 | 0.005 |
| 6 | 20 | Unbiased | 98.991 | 98.997 | 0.0058 |
| 7 | 20 | Unbiased | 98.997 | 98.999 | 0.0029 |
| 8 | 20 | Unbiased | 99 | 99.004 | 0.004 |
| 9 | 20 | Unbiased | 98.997 | 99.001 | 0.0042 |
| 10 | 20 | Unbiased | 99.003 | 99.006 | 0.003 |
| 11 | 30 | Bias | 98.977 | 98.997 | 0.0206 |
| 12 | 30 | Bias | 98.985 | 98.986 | 0.0018 |
| 13 | 30 | Bias | 98.987 | 98.994 | 0.0075 |
| 14 | 30 | Bias | 98.997 | 98.995 | -0.0016 |
| 15 | 30 | Bias | 98.977 | 99.006 | 0.0297 |
| 16 | 30 | Unbiased | 99.002 | 98.986 | -0.0165 |
| 17 | 30 | Unbiased | 99.003 | 99.011 | 0.0084 |
| 18 | 30 | Unbiased | 98.997 | 99.01 | 0.013 |
| 19 | 30 | Unbiased | 98.983 | 99.004 | 0.0219 |
| 20 | 30 | Unbiased | 99 | 98.99 | -0.0098 |
| 21 | 50 | Bias | 98.998 | 99.007 | 0.0093 |
| 22 | 50 | Bias | 98.991 | 99.004 | 0.0125 |
| 23 | 50 | Bias | 99 | 98.996 | -0.0037 |
| 24 | 50 | Bias | 98.995 | 99.008 | 0.0122 |
| 25 | 50 | Bias | 99.008 | 99.007 | -0.0008 |
| 26 | 50 | Unbiased | 98.996 | 98.992 | -0.0038 |
| 27 | 50 | Unbiased | 99.001 | 98.999 | -0.0019 |
| 28 | 50 | Unbiased | 98.99 | 98.988 | -0.0013 |
| 29 | 50 | Unbiased | 98.989 | 98.987 | -0.0025 |
| 30 | 50 | Unbiased | 98.997 | 98.995 | -0.0023 |
| 31 | 0 | Correlation | 98.988 | 98.989 | 0.0003 |
| 32 | 0 | Correlation | 99.001 | 99 | -0.0015 |
| 33 | 0 | Correlation | 98.995 | 98.994 | -0.0005 |
| 34 | 0 | Correlation | 99.006 | 98.988 | -0.0184 |

## Test Statistics (%)
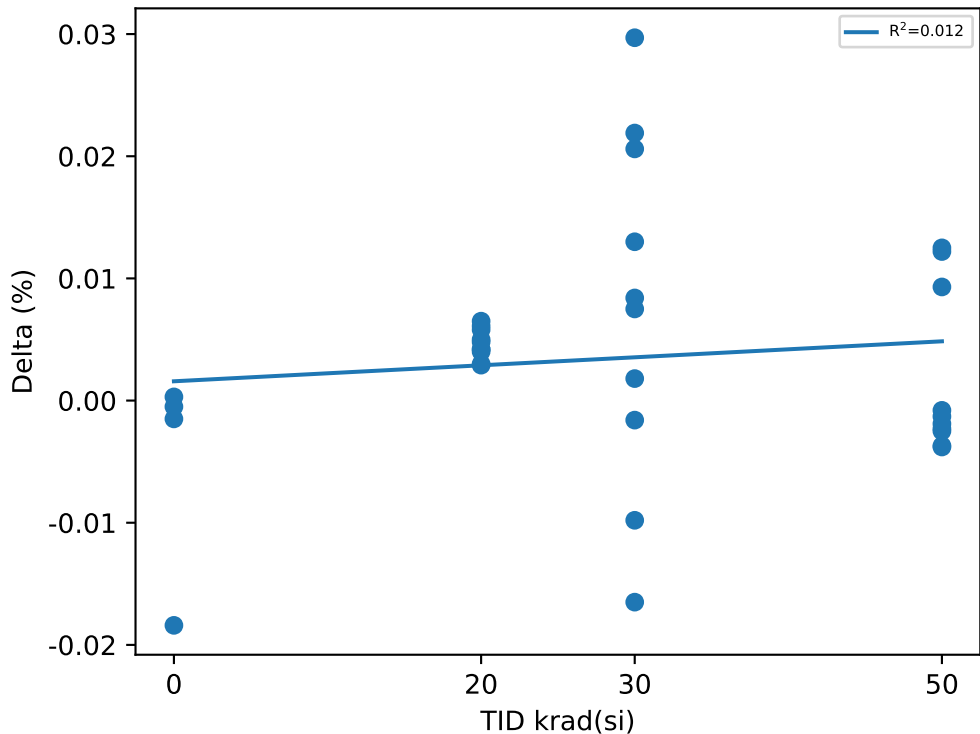
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 98.988 | 98.998 | 99.006 | 0.007819 | 98.988 | 98.993 | 99 | 0.0056264 | -0.0184 | -0.005025 | 0.0003 | 0.008947 |
| 20 | 98.976 | 98.993 | 99.004 | 0.009544 | 98.98 | 98.997 | 99.009 | 0.0089644 | 0.0029 | 0.00465 | 0.0065 | 0.0012295 |
| 30 | 98.977 | 98.991 | 99.003 | 0.010305 | 98.986 | 98.998 | 99.011 | 0.009365 | -0.0165 | 0.0075 | 0.0297 | 0.014505 |
| 50 | 98.989 | 98.997 | 99.008 | 0.0058247 | 98.987 | 98.998 | 99.008 | 0.0080234 | -0.0038 | 0.00177 | 0.0125 | 0.0067153 |

# Device Test: 15.101 VOH_EN_10MA(_EVEL|VOH/EN4/7/14/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

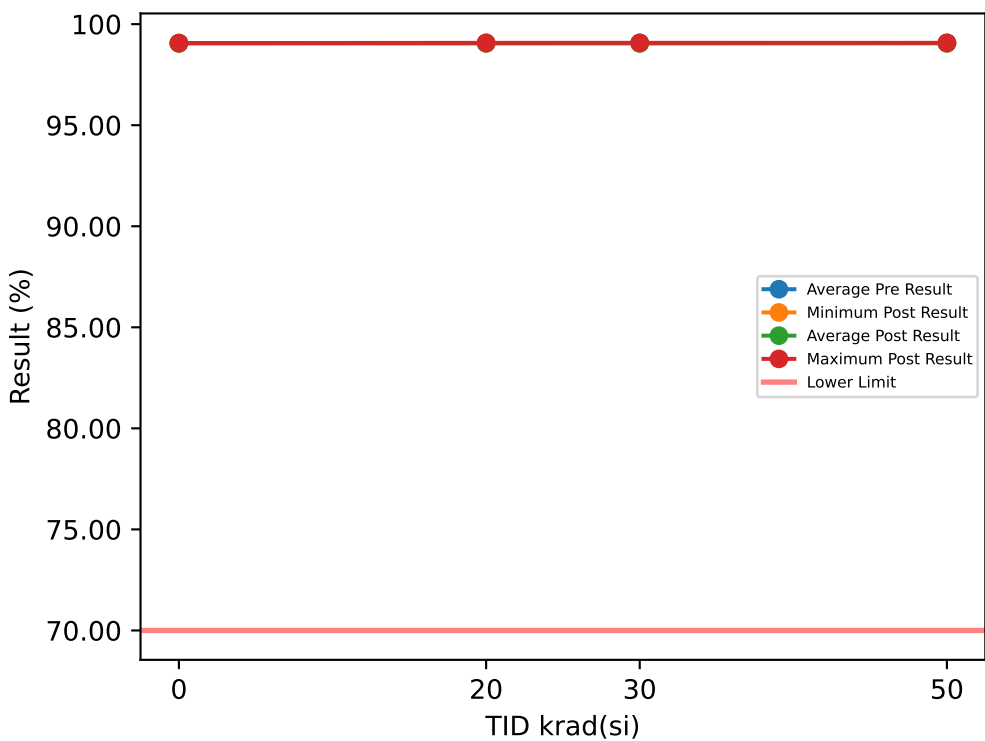| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.049 | 99.055 | 0.0064 |
| 2 | 20 | Bias | 99.051 | 99.056 | 0.0053 |
| 3 | 20 | Bias | 99.042 | 99.046 | 0.0034 |
| 4 | 20 | Bias | 99.07 | 99.075 | 0.0047 |
| 5 | 20 | Bias | 99.063 | 99.067 | 0.0035 |
| 6 | 20 | Unbiased | 99.062 | 99.066 | 0.0043 |
| 7 | 20 | Unbiased | 99.061 | 99.063 | 0.0026 |
| 8 | 20 | Unbiased | 99.068 | 99.071 | 0.003 |
| 9 | 20 | Unbiased | 99.062 | 99.067 | 0.0041 |
| 10 | 20 | Unbiased | 99.07 | 99.072 | 0.0029 |
| 11 | 30 | Bias | 99.044 | 99.062 | 0.0186 |
| 12 | 30 | Bias | 99.049 | 99.053 | 0.0037 |
| 13 | 30 | Bias | 99.054 | 99.058 | 0.0036 |
| 14 | 30 | Bias | 99.064 | 99.061 | -0.0024 |
| 15 | 30 | Bias | 99.044 | 99.071 | 0.0274 |
| 16 | 30 | Unbiased | 99.068 | 99.052 | -0.0161 |
| 17 | 30 | Unbiased | 99.066 | 99.076 | 0.0093 |
| 18 | 30 | Unbiased | 99.061 | 99.073 | 0.0114 |
| 19 | 30 | Unbiased | 99.049 | 99.067 | 0.0186 |
| 20 | 30 | Unbiased | 99.065 | 99.055 | -0.0103 |
| 21 | 50 | Bias | 99.061 | 99.072 | 0.0101 |
| 22 | 50 | Bias | 99.058 | 99.068 | 0.0095 |
| 23 | 50 | Bias | 99.064 | 99.062 | -0.0021 |
| 24 | 50 | Bias | 99.062 | 99.071 | 0.0091 |
| 25 | 50 | Bias | 99.075 | 99.075 | -0.0004 |
| 26 | 50 | Unbiased | 99.06 | 99.056 | -0.0038 |
| 27 | 50 | Unbiased | 99.065 | 99.063 | -0.0022 |
| 28 | 50 | Unbiased | 99.058 | 99.058 | 0 |
| 29 | 50 | Unbiased | 99.058 | 99.056 | -0.0015 |
| 30 | 50 | Unbiased | 99.064 | 99.062 | -0.0024 |
| 31 | 0 | Correlation | 99.057 | 99.056 | -0.0004 |
| 32 | 0 | Correlation | 99.063 | 99.062 | -0.001 |
| 33 | 0 | Correlation | 99.061 | 99.06 | -0.0016 |
| 34 | 0 | Correlation | 99.072 | 99.054 | -0.0182 |

## Test Statistics (%)
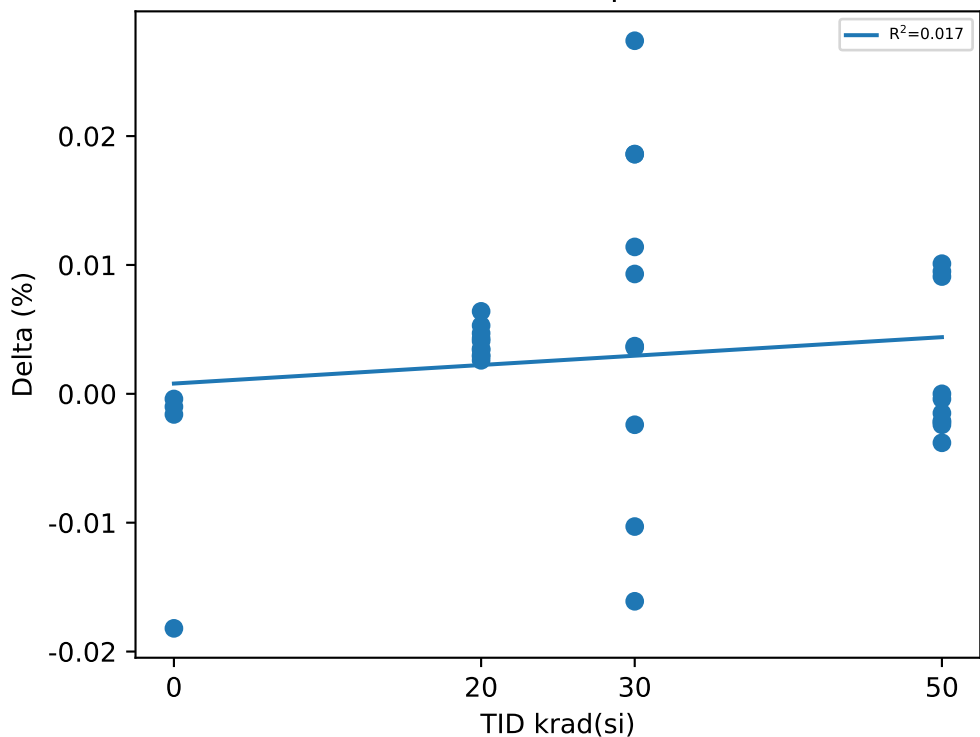
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.057 | 99.063 | 99.072 | 0.0065764 | 99.054 | 99.058 | 99.062 | 0.0034702 | -0.0182 | -0.0053 | -0.0004 | 0.0086139 |
| 20 | 99.042 | 99.06 | 99.07 | 0.0094868 | 99.046 | 99.064 | 99.075 | 0.0090657 | 0.0026 | 0.00402 | 0.0064 | 0.0011933 |
| 30 | 99.044 | 99.056 | 99.068 | 0.0095614 | 99.052 | 99.063 | 99.076 | 0.0084948 | -0.0161 | 0.00638 | 0.0274 | 0.013539 |
| 50 | 99.058 | 99.063 | 99.075 | 0.0051372 | 99.056 | 99.064 | 99.075 | 0.006718 | -0.0038 | 0.00163 | 0.0101 | 0.0055813 |
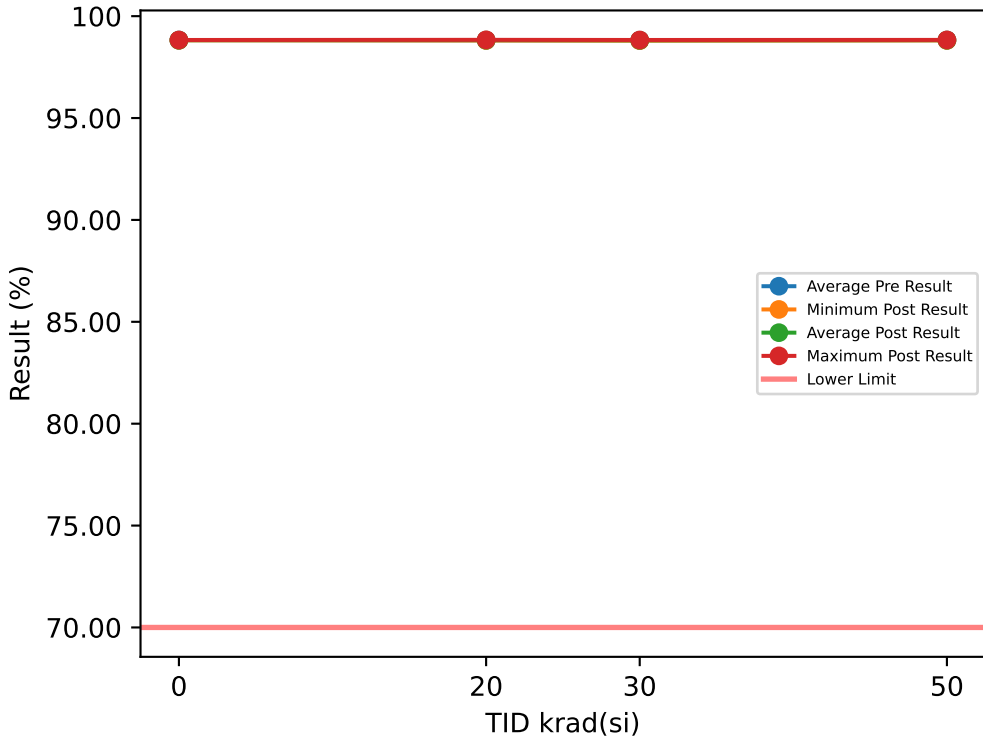
# Device Test: 15.102 VOH_SEQ_DONE_10MA(_EVEL|VOH/SEQ_DONE/7/14/0/0/10/@VOH_SEQ_DONE_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 98.803 | 98.811 | 0.0078 |
| 2 | 20 | Bias | 98.803 | 98.81 | 0.0069 |
| 3 | 20 | Bias | 98.8 | 98.805 | 0.0055 |
| 4 | 20 | Bias | 98.832 | 98.838 | 0.0065 |
| 5 | 20 | Bias | 98.826 | 98.832 | 0.0059 |
| 6 | 20 | Unbiased | 98.817 | 98.825 | 0.0079 |
| 7 | 20 | Unbiased | 98.821 | 98.825 | 0.0037 |
| 8 | 20 | Unbiased | 98.82 | 98.826 | 0.0059 |
| 9 | 20 | Unbiased | 98.821 | 98.826 | 0.0049 |
| 10 | 20 | Unbiased | 98.831 | 98.834 | 0.0035 |
| 11 | 30 | Bias | 98.795 | 98.815 | 0.02 |
| 12 | 30 | Bias | 98.808 | 98.797 | -0.0102 |
| 13 | 30 | Bias | 98.813 | 98.809 | -0.0044 |
| 14 | 30 | Bias | 98.828 | 98.814 | -0.0134 |
| 15 | 30 | Bias | 98.797 | 98.83 | 0.0331 |
| 16 | 30 | Unbiased | 98.83 | 98.799 | -0.0314 |
| 17 | 30 | Unbiased | 98.83 | 98.831 | 0.0006 |
| 18 | 30 | Unbiased | 98.828 | 98.831 | 0.0036 |
| 19 | 30 | Unbiased | 98.804 | 98.827 | 0.0228 |
| 20 | 30 | Unbiased | 98.832 | 98.804 | -0.0281 |
| 21 | 50 | Bias | 98.83 | 98.833 | 0.0031 |
| 22 | 50 | Bias | 98.817 | 98.827 | 0.0095 |
| 23 | 50 | Bias | 98.829 | 98.815 | -0.0142 |
| 24 | 50 | Bias | 98.819 | 98.828 | 0.009 |
| 25 | 50 | Bias | 98.834 | 98.834 | 0.0007 |
| 26 | 50 | Unbiased | 98.824 | 98.82 | -0.0037 |
| 27 | 50 | Unbiased | 98.824 | 98.822 | -0.0022 |
| 28 | 50 | Unbiased | 98.819 | 98.818 | -0.0013 |
| 29 | 50 | Unbiased | 98.81 | 98.808 | -0.0018 |
| 30 | 50 | Unbiased | 98.825 | 98.822 | -0.0027 |
| 31 | 0 | Correlation | 98.815 | 98.816 | 0.0002 |
| 32 | 0 | Correlation | 98.831 | 98.831 | -0.0002 |
| 33 | 0 | Correlation | 98.823 | 98.824 | 0.0001 |
| 34 | 0 | Correlation | 98.832 | 98.814 | -0.0186 |

## Test Statistics (%)
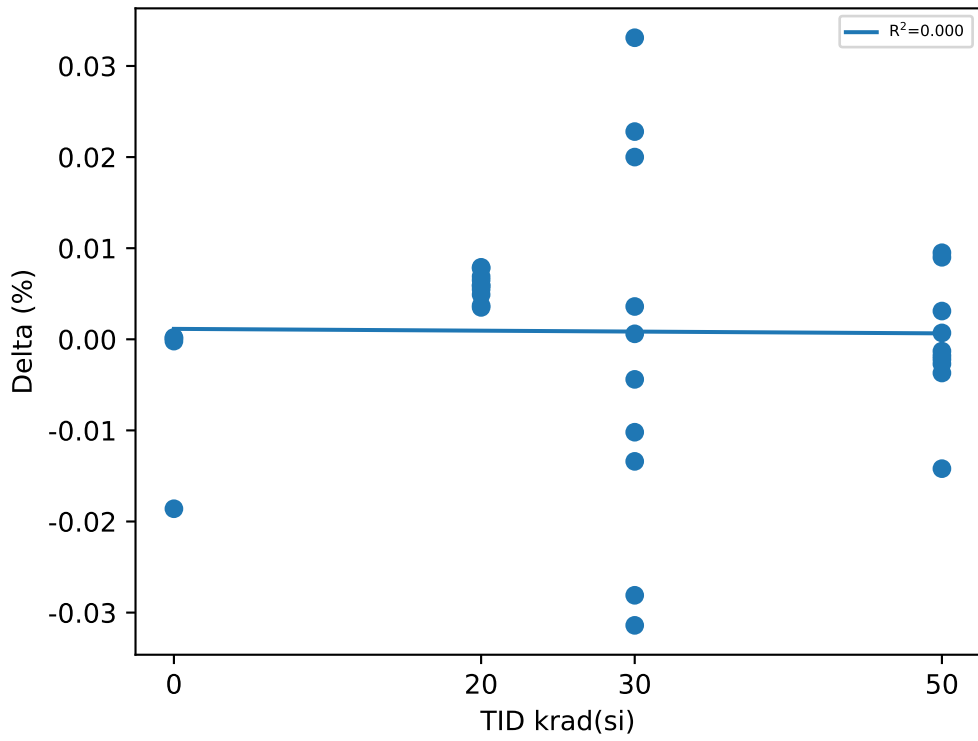
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 98.815 | 98.826 | 98.832 | 0.0077762 | 98.814 | 98.821 | 98.831 | 0.0078158 | -0.0186 | -0.004625 | 0.0002 | 0.0093182 |
| 20 | 98.8 | 98.817 | 98.832 | 0.011676 | 98.805 | 98.823 | 98.838 | 0.011088 | 0.0035 | 0.00585 | 0.0079 | 0.0015168 |
| 30 | 98.795 | 98.816 | 98.832 | 0.014733 | 98.797 | 98.816 | 98.831 | 0.013279 | -0.0314 | -0.00074 | 0.0331 | 0.021348 |
| 50 | 98.81 | 98.823 | 98.834 | 0.0068976 | 98.808 | 98.823 | 98.834 | 0.0080573 | -0.0142 | -0.00036 | 0.0095 | 0.0067696 |

# Device Test: 15.103 VOH_PWRGD_10MA(_EVEL|VOH/PWRGD/7/14/0/0/10/@VOH_PWRGD_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

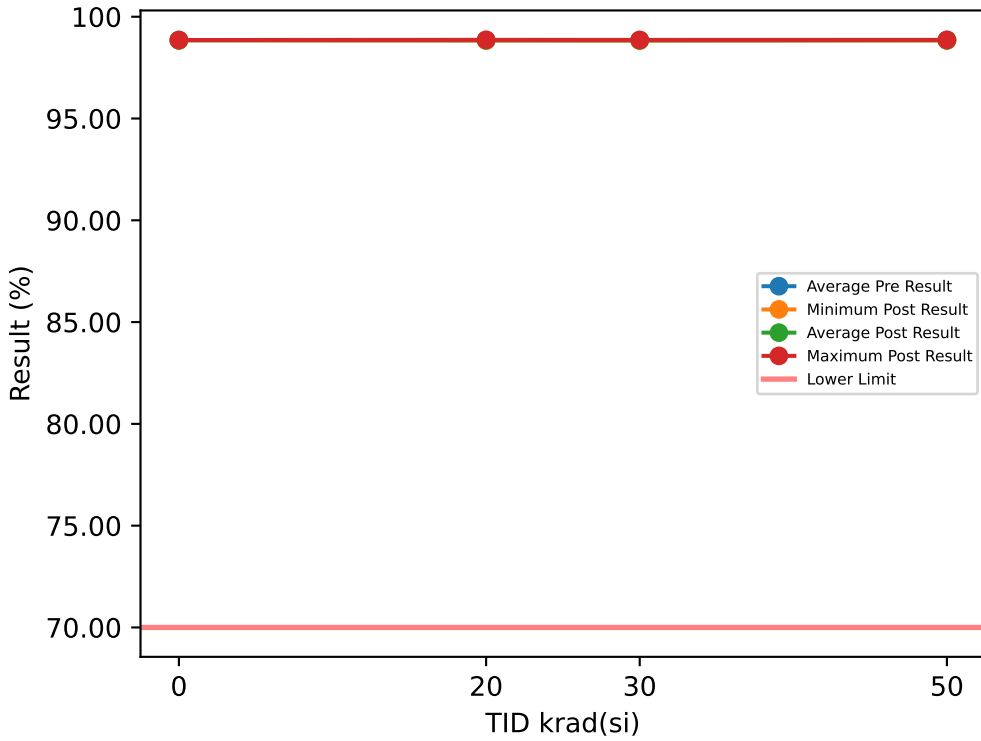| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 98.827 | 98.837 | 0.0099 |
| 2 | 20 | Bias | 98.828 | 98.836 | 0.0081 |
| 3 | 20 | Bias | 98.822 | 98.829 | 0.0066 |
| 4 | 20 | Bias | 98.856 | 98.865 | 0.0086 |
| 5 | 20 | Bias | 98.852 | 98.859 | 0.0075 |
| 6 | 20 | Unbiased | 98.846 | 98.854 | 0.0079 |
| 7 | 20 | Unbiased | 98.846 | 98.85 | 0.0048 |
| 8 | 20 | Unbiased | 98.849 | 98.855 | 0.0057 |
| 9 | 20 | Unbiased | 98.849 | 98.854 | 0.0047 |
| 10 | 20 | Unbiased | 98.856 | 98.861 | 0.0051 |
| 11 | 30 | Bias | 98.823 | 98.845 | 0.0216 |
| 12 | 30 | Bias | 98.832 | 98.828 | -0.0045 |
| 13 | 30 | Bias | 98.84 | 98.837 | -0.0026 |
| 14 | 30 | Bias | 98.853 | 98.844 | -0.0097 |
| 15 | 30 | Bias | 98.823 | 98.858 | 0.0347 |
| 16 | 30 | Unbiased | 98.858 | 98.828 | -0.03 |
| 17 | 30 | Unbiased | 98.855 | 98.861 | 0.0058 |
| 18 | 30 | Unbiased | 98.853 | 98.857 | 0.0037 |
| 19 | 30 | Unbiased | 98.829 | 98.855 | 0.0256 |
| 20 | 30 | Unbiased | 98.856 | 98.831 | -0.0249 |
| 21 | 50 | Bias | 98.85 | 98.857 | 0.0072 |
| 22 | 50 | Bias | 98.842 | 98.851 | 0.0086 |
| 23 | 50 | Bias | 98.854 | 98.841 | -0.0133 |
| 24 | 50 | Bias | 98.847 | 98.855 | 0.0082 |
| 25 | 50 | Bias | 98.864 | 98.863 | -0.0002 |
| 26 | 50 | Unbiased | 98.85 | 98.846 | -0.0042 |
| 27 | 50 | Unbiased | 98.857 | 98.853 | -0.0032 |
| 28 | 50 | Unbiased | 98.845 | 98.842 | -0.0031 |
| 29 | 50 | Unbiased | 98.84 | 98.836 | -0.0037 |
| 30 | 50 | Unbiased | 98.851 | 98.848 | -0.0031 |
| 31 | 0 | Correlation | 98.844 | 98.843 | -0.001 |
| 32 | 0 | Correlation | 98.856 | 98.856 | -0.0005 |
| 33 | 0 | Correlation | 98.852 | 98.85 | -0.002 |
| 34 | 0 | Correlation | 98.857 | 98.839 | -0.0174 |

## Test Statistics (%)
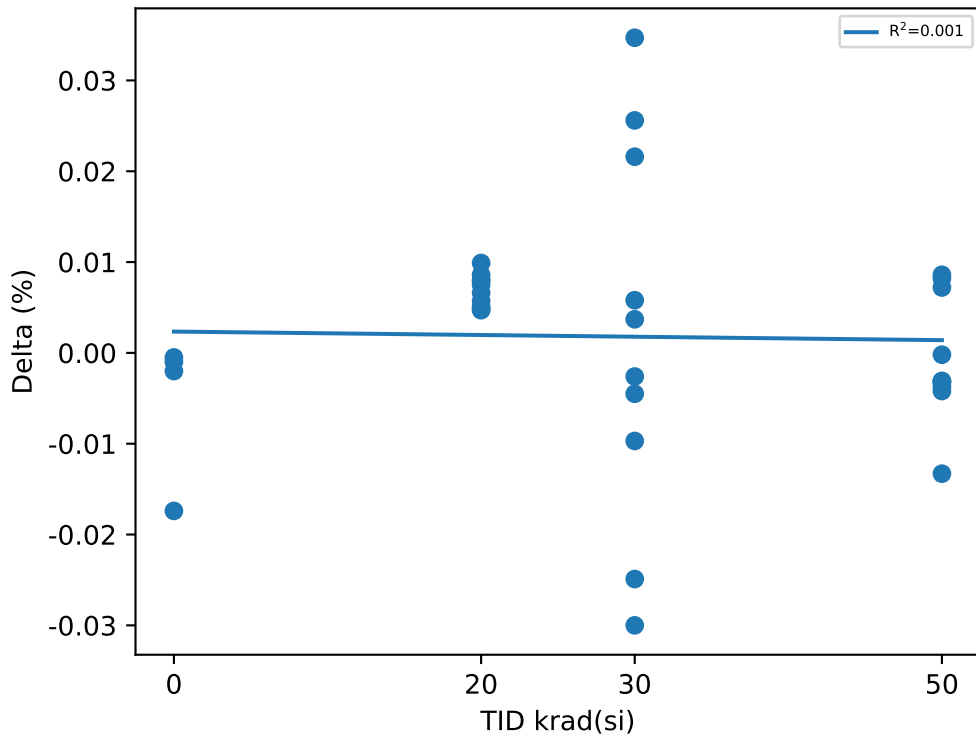
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 98.844 | 98.852 | 98.857 | 0.005829 | 98.839 | 98.847 | 98.856 | 0.007267 | -0.0174 | -0.005225 | -0.0005 | 0.0081406 |
| 20 | 98.822 | 98.843 | 98.856 | 0.01248 | 98.829 | 98.85 | 98.865 | 0.011892 | 0.0047 | 0.00689 | 0.0099 | 0.001786 |
| 30 | 98.823 | 98.842 | 98.858 | 0.014332 | 98.828 | 98.844 | 98.861 | 0.012959 | -0.03 | 0.00197 | 0.0347 | 0.021018 |
| 50 | 98.84 | 98.85 | 98.864 | 0.0070593 | 98.836 | 98.849 | 98.863 | 0.0083323 | -0.0133 | -0.00068 | 0.0086 | 0.006881 |

# Device Test: 15.104 VOL_EN_10MA(_EVEL|VOL/EN1/1.6/3/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

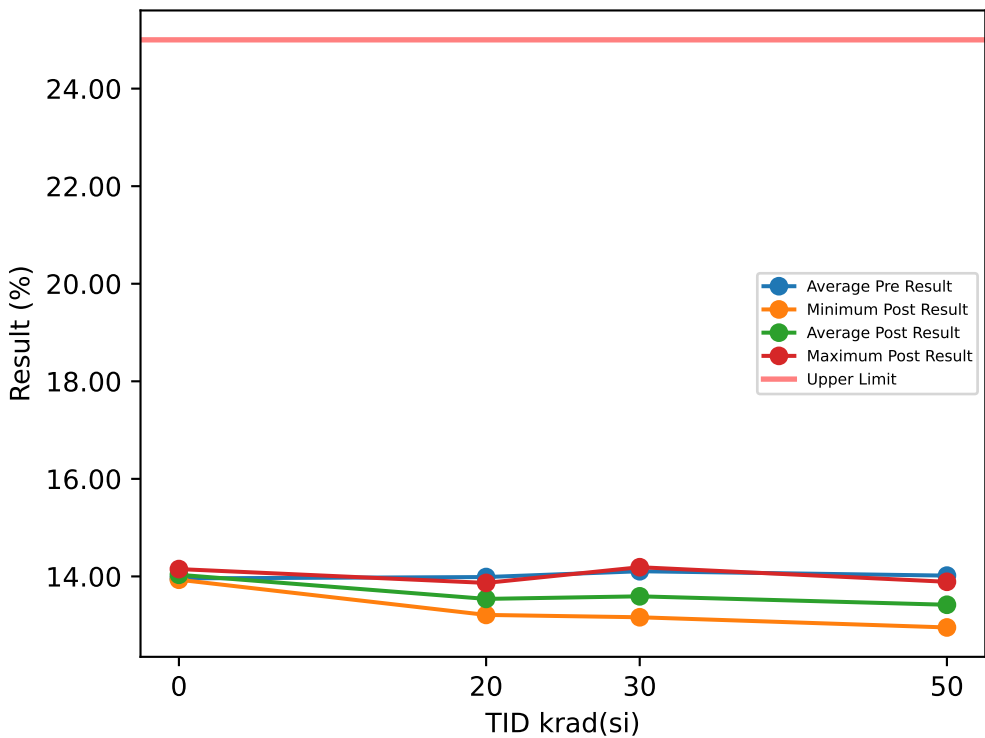| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 13.926 | 13.237 | -0.6886 |
| 2 | 20 | Bias | 13.968 | 13.299 | -0.6687 |
| 3 | 20 | Bias | 14.134 | 13.469 | -0.6646 |
| 4 | 20 | Bias | 13.858 | 13.211 | -0.6472 |
| 5 | 20 | Bias | 13.998 | 13.361 | -0.6368 |
| 6 | 20 | Unbiased | 14.137 | 13.867 | -0.2695 |
| 7 | 20 | Unbiased | 14.055 | 13.825 | -0.2297 |
| 8 | 20 | Unbiased | 13.718 | 13.485 | -0.2332 |
| 9 | 20 | Unbiased | 13.995 | 13.774 | -0.2213 |
| 10 | 20 | Unbiased | 14.086 | 13.864 | -0.2219 |
| 11 | 30 | Bias | 14.24 | 13.275 | -0.9645 |
| 12 | 30 | Bias | 14.237 | 13.402 | -0.8348 |
| 13 | 30 | Bias | 14.145 | 13.434 | -0.7105 |
| 14 | 30 | Bias | 13.975 | 13.327 | -0.6484 |
| 15 | 30 | Bias | 14.466 | 13.163 | -1.3028 |
| 16 | 30 | Unbiased | 13.974 | 14.189 | 0.2149 |
| 17 | 30 | Unbiased | 13.873 | 13.71 | -0.1637 |
| 18 | 30 | Unbiased | 13.982 | 13.63 | -0.352 |
| 19 | 30 | Unbiased | 14.301 | 13.741 | -0.5599 |
| 20 | 30 | Unbiased | 13.868 | 14.049 | 0.1809 |
| 21 | 50 | Bias | 14.022 | 13.022 | -1.0006 |
| 22 | 50 | Bias | 14.039 | 13.131 | -0.9076 |
| 23 | 50 | Bias | 14.062 | 13.167 | -0.8956 |
| 24 | 50 | Bias | 13.979 | 13.175 | -0.8043 |
| 25 | 50 | Bias | 13.858 | 12.954 | -0.9041 |
| 26 | 50 | Unbiased | 13.912 | 13.634 | -0.2777 |
| 27 | 50 | Unbiased | 13.918 | 13.634 | -0.2842 |
| 28 | 50 | Unbiased | 14.176 | 13.874 | -0.3019 |
| 29 | 50 | Unbiased | 14.192 | 13.89 | -0.3017 |
| 30 | 50 | Unbiased | 14.007 | 13.71 | -0.2963 |
| 31 | 0 | Correlation | 14.145 | 14.151 | 0.0052 |
| 32 | 0 | Correlation | 13.927 | 13.932 | 0.005 |
| 33 | 0 | Correlation | 13.97 | 13.973 | 0.0039 |
| 34 | 0 | Correlation | 13.797 | 14.079 | 0.2826 |

## Test Statistics (%)
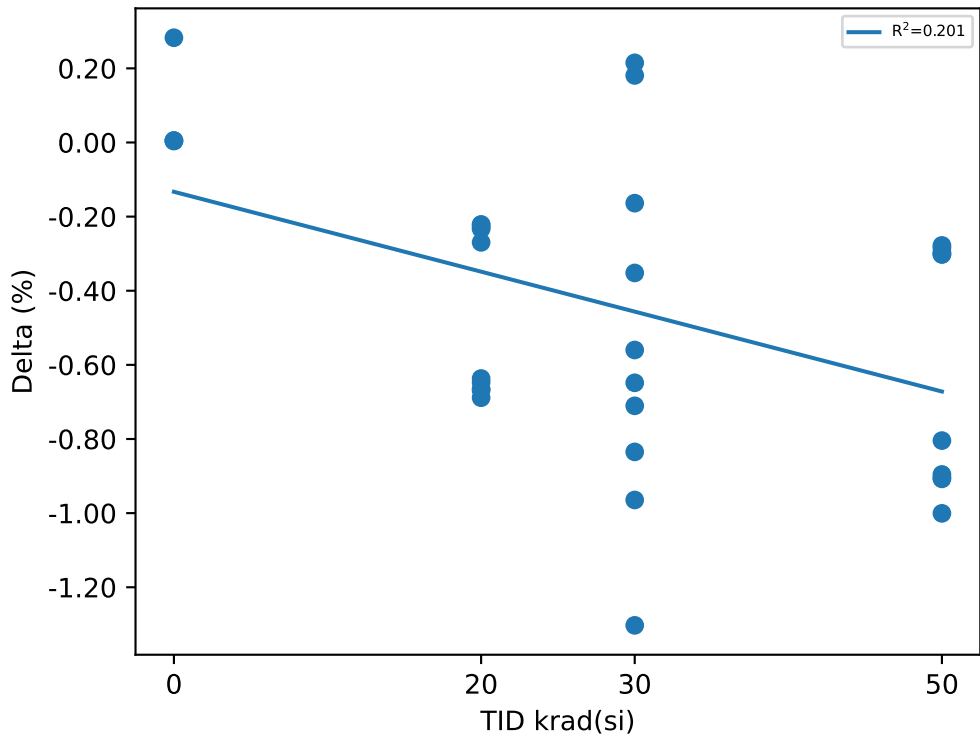
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 13.797 | 13.96 | 14.145 | 0.14397 | 13.932 | 14.034 | 14.151 | 0.099554 | 0.0039 | 0.074175 | 0.2826 | 0.13895 |
| 20 | 13.718 | 13.987 | 14.137 | 0.12976 | 13.211 | 13.539 | 13.867 | 0.26796 | -0.6886 | -0.44815 | -0.2213 | 0.22534 |
| 30 | 13.868 | 14.106 | 14.466 | 0.20125 | 13.163 | 13.592 | 14.189 | 0.3364 | -1.3028 | -0.51408 | 0.2149 | 0.48876 |
| 50 | 13.858 | 14.017 | 14.192 | 0.10863 | 12.954 | 13.419 | 13.89 | 0.36314 | -1.0006 | -0.5974 | -0.2777 | 0.32495 |

# Device Test: 15.105 VOL_EN_10MA(_EVEL|VOL/EN2/1.6/3/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

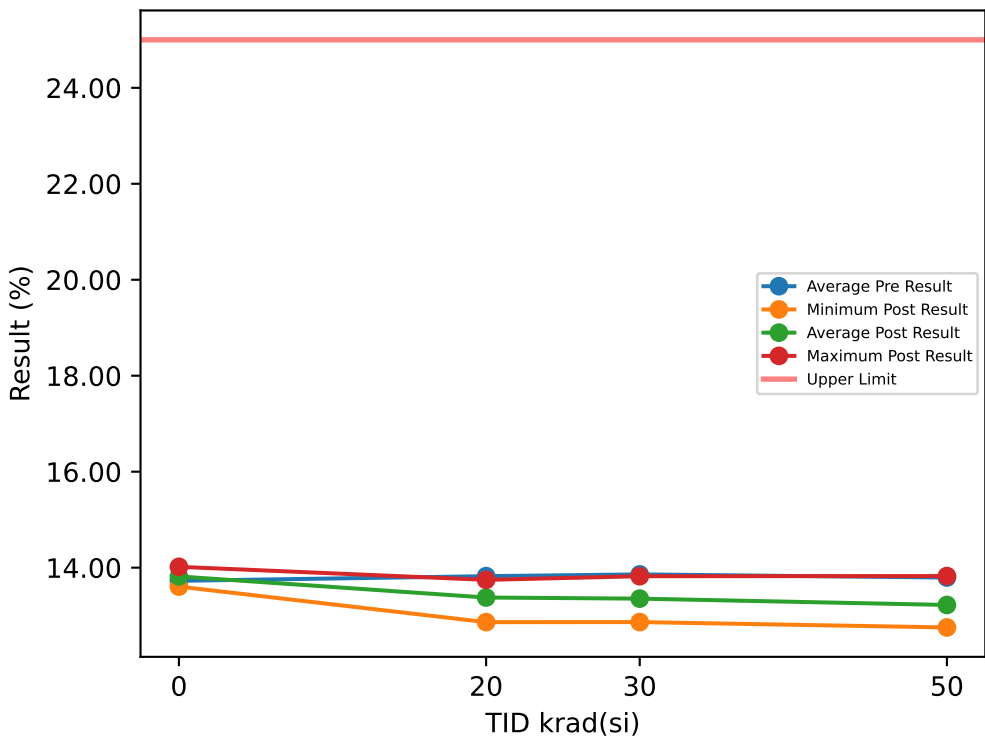| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 13.905 | 13.208 | -0.6972 |
| 2 | 20 | Bias | 13.931 | 13.248 | -0.6827 |
| 3 | 20 | Bias | 14.12 | 13.453 | -0.6673 |
| 4 | 20 | Bias | 13.49 | 12.865 | -0.6256 |
| 5 | 20 | Bias | 13.735 | 13.118 | -0.6173 |
| 6 | 20 | Unbiased | 13.961 | 13.691 | -0.2702 |
| 7 | 20 | Unbiased | 13.903 | 13.678 | -0.2258 |
| 8 | 20 | Unbiased | 13.989 | 13.746 | -0.2432 |
| 9 | 20 | Unbiased | 13.63 | 13.413 | -0.2162 |
| 10 | 20 | Unbiased | 13.562 | 13.357 | -0.2051 |
| 11 | 30 | Bias | 14.08 | 13.206 | -0.8739 |
| 12 | 30 | Bias | 14.207 | 13.254 | -0.9532 |
| 13 | 30 | Bias | 14.094 | 13.398 | -0.696 |
| 14 | 30 | Bias | 13.65 | 13.264 | -0.3861 |
| 15 | 30 | Bias | 14.088 | 12.866 | -1.2222 |
| 16 | 30 | Unbiased | 13.597 | 13.821 | 0.2242 |
| 17 | 30 | Unbiased | 13.561 | 13.348 | -0.2136 |
| 18 | 30 | Unbiased | 13.637 | 13.325 | -0.3127 |
| 19 | 30 | Unbiased | 13.896 | 13.407 | -0.4891 |
| 20 | 30 | Unbiased | 13.787 | 13.658 | -0.1291 |
| 21 | 50 | Bias | 13.821 | 12.926 | -0.8951 |
| 22 | 50 | Bias | 13.823 | 12.942 | -0.8809 |
| 23 | 50 | Bias | 13.614 | 12.956 | -0.6583 |
| 24 | 50 | Bias | 13.696 | 12.778 | -0.9181 |
| 25 | 50 | Bias | 13.65 | 12.754 | -0.8961 |
| 26 | 50 | Unbiased | 13.758 | 13.481 | -0.2776 |
| 27 | 50 | Unbiased | 13.784 | 13.495 | -0.2888 |
| 28 | 50 | Unbiased | 13.698 | 13.402 | -0.2962 |
| 29 | 50 | Unbiased | 14.133 | 13.825 | -0.3078 |
| 30 | 50 | Unbiased | 13.964 | 13.669 | -0.2947 |
| 31 | 0 | Correlation | 13.701 | 13.704 | 0.0033 |
| 32 | 0 | Correlation | 13.599 | 13.605 | 0.0058 |
| 33 | 0 | Correlation | 13.934 | 13.943 | 0.0086 |
| 34 | 0 | Correlation | 13.669 | 14.017 | 0.3484 |

## Test Statistics (%)
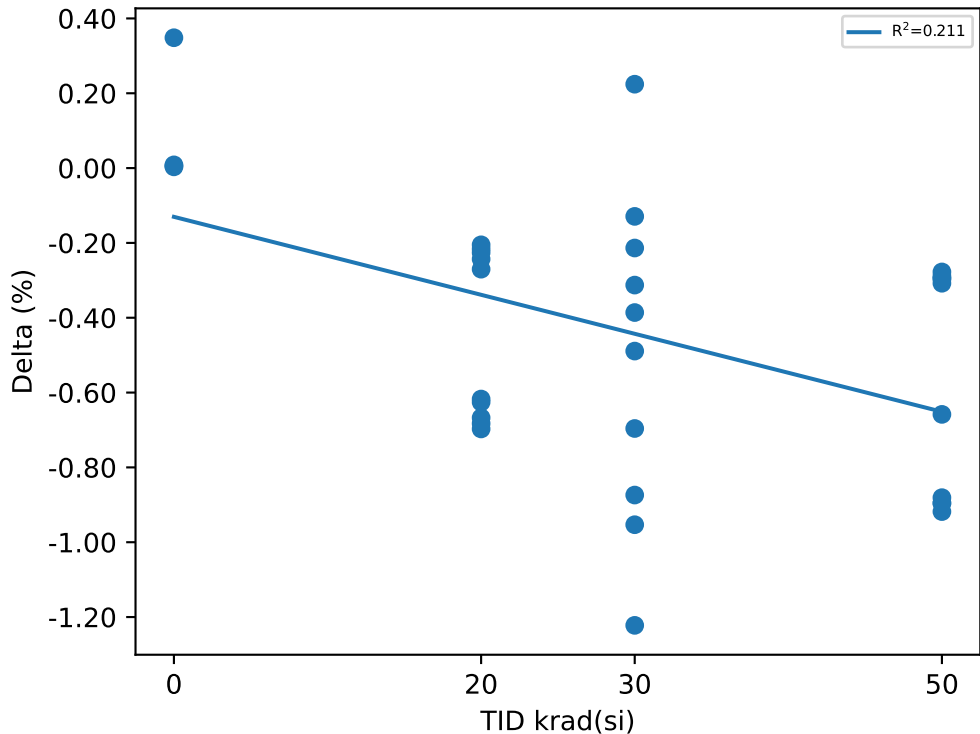
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 13.599 | 13.726 | 13.934 | 0.14527 | 13.605 | 13.817 | 14.017 | 0.19455 | 0.0033 | 0.091525 | 0.3484 | 0.17126 |
| 20 | 13.49 | 13.823 | 14.12 | 0.20644 | 12.865 | 13.378 | 13.746 | 0.2803 | -0.6972 | -0.44506 | -0.2051 | 0.22634 |
| 30 | 13.561 | 13.86 | 14.207 | 0.24359 | 12.866 | 13.355 | 13.821 | 0.25701 | -1.2222 | -0.50517 | 0.2242 | 0.43425 |
| 50 | 13.614 | 13.794 | 14.133 | 0.15585 | 12.754 | 13.223 | 13.825 | 0.39314 | -0.9181 | -0.57136 | -0.2776 | 0.30216 |

# Device Test: 15.106 VOL_EN_10MA(_EVEL|VOL/EN3/1.6/3/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

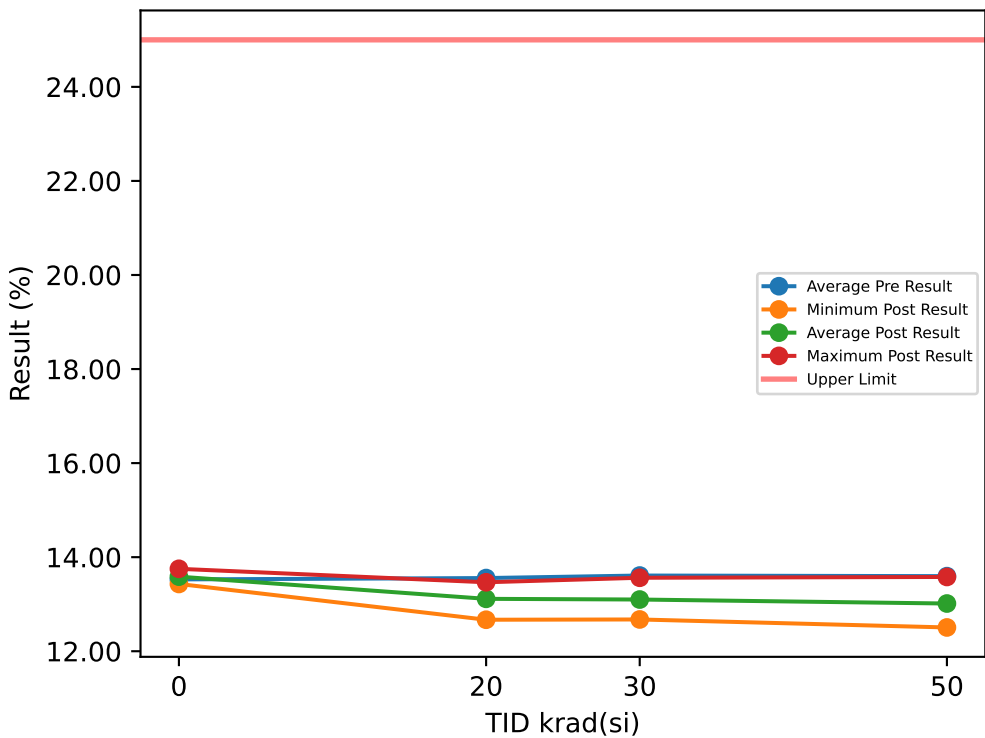| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 13.632 | 12.936 | -0.6968 |
| 2 | 20 | Bias | 13.72 | 13.043 | -0.6774 |
| 3 | 20 | Bias | 13.824 | 13.156 | -0.6688 |
| 4 | 20 | Bias | 13.292 | 12.67 | -0.6222 |
| 5 | 20 | Bias | 13.455 | 12.845 | -0.6099 |
| 6 | 20 | Unbiased | 13.636 | 13.371 | -0.2651 |
| 7 | 20 | Unbiased | 13.582 | 13.361 | -0.2209 |
| 8 | 20 | Unbiased | 13.704 | 13.466 | -0.2381 |
| 9 | 20 | Unbiased | 13.387 | 13.173 | -0.2139 |
| 10 | 20 | Unbiased | 13.327 | 13.121 | -0.2057 |
| 11 | 30 | Bias | 13.865 | 12.946 | -0.919 |
| 12 | 30 | Bias | 13.915 | 13.036 | -0.8792 |
| 13 | 30 | Bias | 13.784 | 13.107 | -0.677 |
| 14 | 30 | Bias | 13.459 | 12.961 | -0.4982 |
| 15 | 30 | Bias | 13.826 | 12.675 | -1.1509 |
| 16 | 30 | Unbiased | 13.349 | 13.562 | 0.2131 |
| 17 | 30 | Unbiased | 13.318 | 13.104 | -0.2144 |
| 18 | 30 | Unbiased | 13.364 | 13.085 | -0.2789 |
| 19 | 30 | Unbiased | 13.617 | 13.136 | -0.481 |
| 20 | 30 | Unbiased | 13.599 | 13.382 | -0.2174 |
| 21 | 50 | Bias | 13.643 | 12.735 | -0.9083 |
| 22 | 50 | Bias | 13.655 | 12.758 | -0.8968 |
| 23 | 50 | Bias | 13.371 | 12.771 | -0.6003 |
| 24 | 50 | Bias | 13.568 | 12.531 | -1.0361 |
| 25 | 50 | Bias | 13.401 | 12.505 | -0.8956 |
| 26 | 50 | Unbiased | 13.602 | 13.321 | -0.2812 |
| 27 | 50 | Unbiased | 13.662 | 13.361 | -0.3013 |
| 28 | 50 | Unbiased | 13.504 | 13.207 | -0.2968 |
| 29 | 50 | Unbiased | 13.891 | 13.579 | -0.3117 |
| 30 | 50 | Unbiased | 13.668 | 13.376 | -0.292 |
| 31 | 0 | Correlation | 13.466 | 13.464 | -0.002 |
| 32 | 0 | Correlation | 13.427 | 13.43 | 0.0028 |
| 33 | 0 | Correlation | 13.694 | 13.697 | 0.0029 |
| 34 | 0 | Correlation | 13.521 | 13.753 | 0.2319 |

## Test Statistics (%)
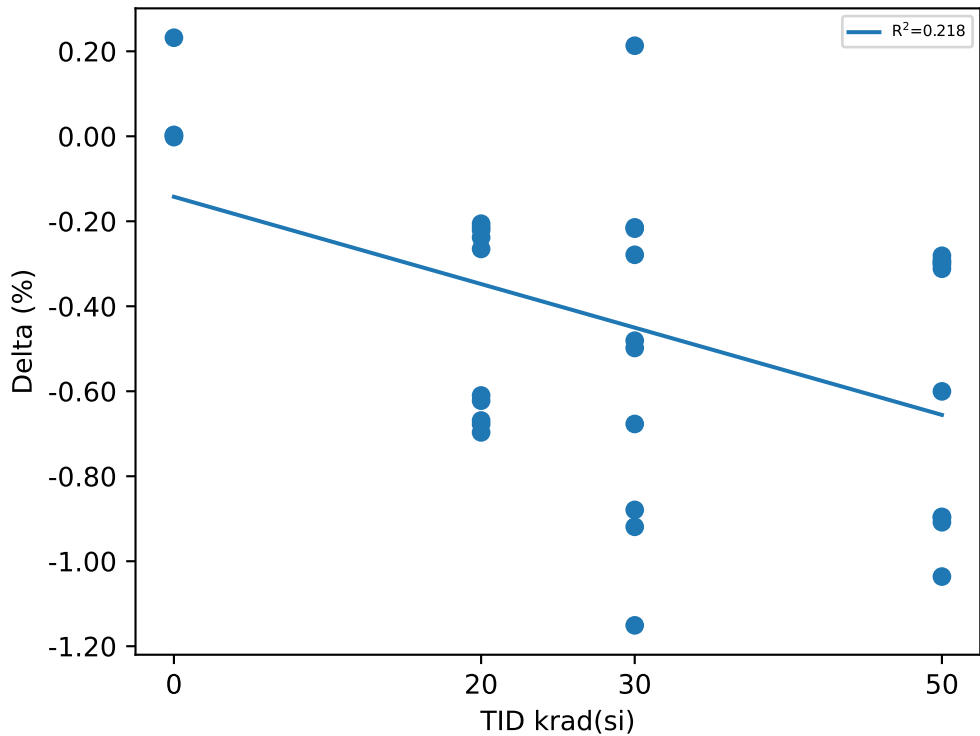
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 13.427 | 13.527 | 13.694 | 0.11796 | 13.43 | 13.586 | 13.753 | 0.16266 | -0.002 | 0.0589 | 0.2319 | 0.11536 |
| 20 | 13.292 | 13.556 | 13.824 | 0.18104 | 12.67 | 13.114 | 13.466 | 0.25022 | -0.6968 | -0.44188 | -0.2057 | 0.22658 |
| 30 | 13.318 | 13.61 | 13.915 | 0.22894 | 12.675 | 13.099 | 13.562 | 0.24082 | -1.1509 | -0.51029 | 0.2131 | 0.40722 |
| 50 | 13.371 | 13.596 | 13.891 | 0.14903 | 12.505 | 13.014 | 13.579 | 0.39382 | -1.0361 | -0.58201 | -0.2812 | 0.31941 |

# Device Test: 15.107 VOL_EN_10MA(_EVEL|VOL/EN4/1.6/3/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

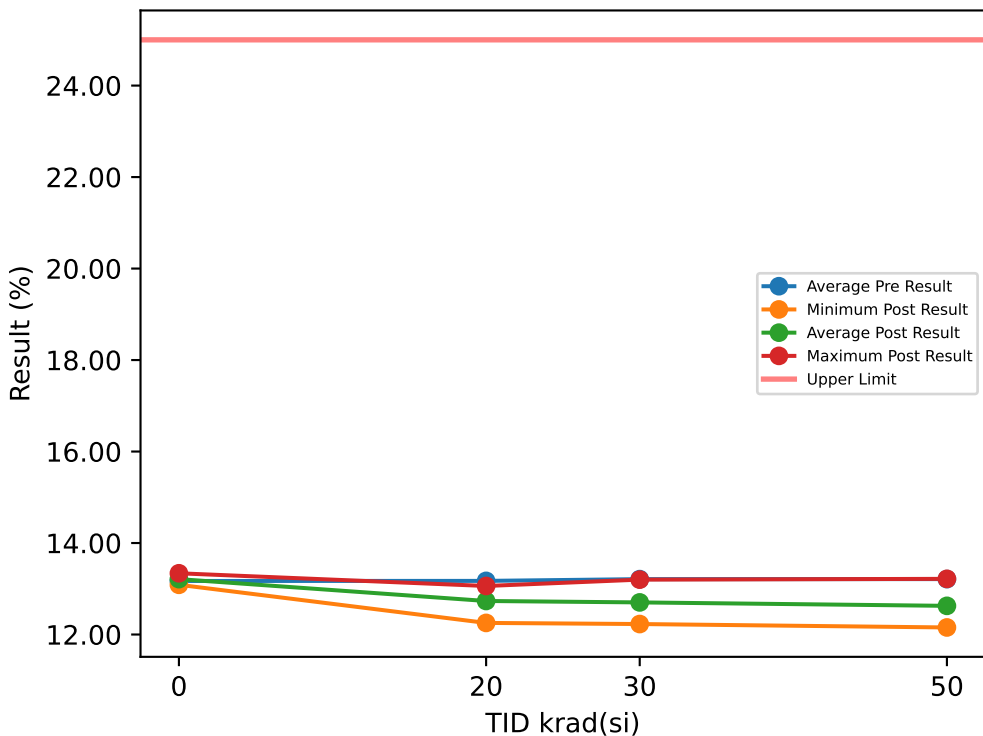| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 13.252 | 12.564 | -0.6878 |
| 2 | 20 | Bias | 13.299 | 12.627 | -0.6718 |
| 3 | 20 | Bias | 13.402 | 12.741 | -0.6611 |
| 4 | 20 | Bias | 12.871 | 12.254 | -0.6174 |
| 5 | 20 | Bias | 13.151 | 12.537 | -0.6147 |
| 6 | 20 | Unbiased | 13.323 | 13.061 | -0.2618 |
| 7 | 20 | Unbiased | 13.25 | 13.024 | -0.2262 |
| 8 | 20 | Unbiased | 13.25 | 13.017 | -0.2325 |
| 9 | 20 | Unbiased | 12.984 | 12.77 | -0.2147 |
| 10 | 20 | Unbiased | 12.942 | 12.735 | -0.2071 |
| 11 | 30 | Bias | 13.475 | 12.521 | -0.9537 |
| 12 | 30 | Bias | 13.532 | 12.65 | -0.8827 |
| 13 | 30 | Bias | 13.414 | 12.728 | -0.6863 |
| 14 | 30 | Bias | 13 | 12.594 | -0.4062 |
| 15 | 30 | Bias | 13.458 | 12.229 | -1.2286 |
| 16 | 30 | Unbiased | 12.96 | 13.2 | 0.2397 |
| 17 | 30 | Unbiased | 12.873 | 12.723 | -0.1509 |
| 18 | 30 | Unbiased | 12.936 | 12.64 | -0.2959 |
| 19 | 30 | Unbiased | 13.254 | 12.715 | -0.5386 |
| 20 | 30 | Unbiased | 13.203 | 13.019 | -0.1836 |
| 21 | 50 | Bias | 13.27 | 12.34 | -0.9304 |
| 22 | 50 | Bias | 13.245 | 12.388 | -0.8567 |
| 23 | 50 | Bias | 12.991 | 12.362 | -0.6286 |
| 24 | 50 | Bias | 13.193 | 12.154 | -1.0387 |
| 25 | 50 | Bias | 13.116 | 12.216 | -0.9006 |
| 26 | 50 | Unbiased | 13.157 | 12.876 | -0.2814 |
| 27 | 50 | Unbiased | 13.197 | 12.897 | -0.2993 |
| 28 | 50 | Unbiased | 13.159 | 12.859 | -0.3002 |
| 29 | 50 | Unbiased | 13.529 | 13.217 | -0.3125 |
| 30 | 50 | Unbiased | 13.254 | 12.958 | -0.2968 |
| 31 | 0 | Correlation | 13.089 | 13.087 | -0.0021 |
| 32 | 0 | Correlation | 13.097 | 13.094 | -0.0035 |
| 33 | 0 | Correlation | 13.336 | 13.339 | 0.0022 |
| 34 | 0 | Correlation | 13.159 | 13.324 | 0.1651 |

## Test Statistics (%)
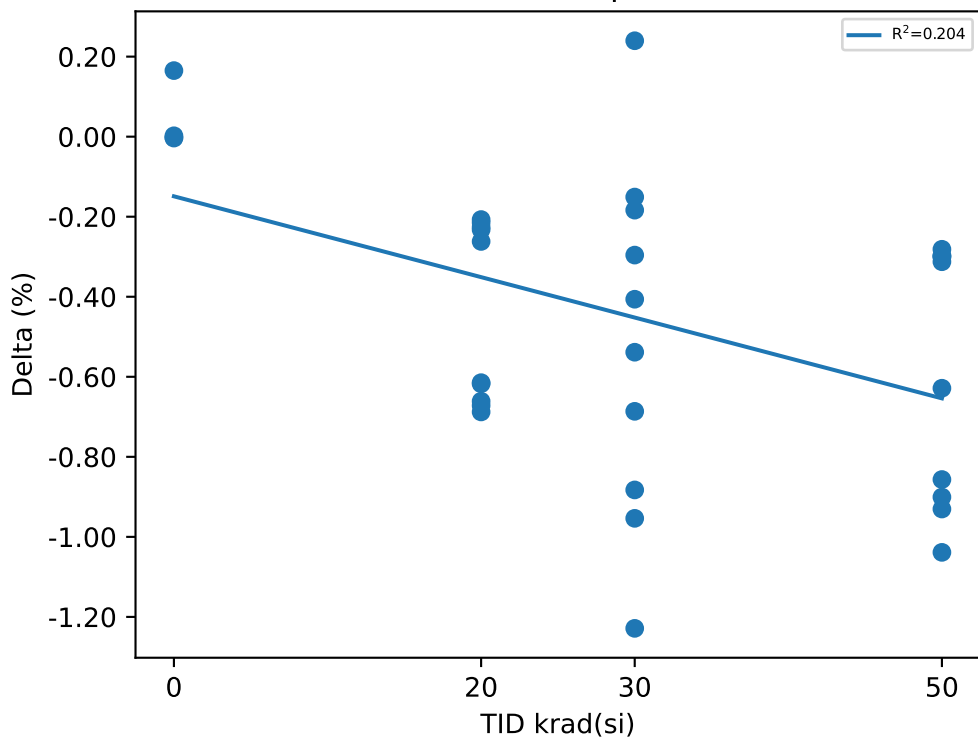
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 13.089 | 13.17 | 13.336 | 0.11499 | 13.087 | 13.211 | 13.339 | 0.13938 | -0.0035 | 0.040425 | 0.1651 | 0.083152 |
| 20 | 12.871 | 13.172 | 13.402 | 0.17936 | 12.254 | 12.733 | 13.061 | 0.25447 | -0.6878 | -0.43951 | -0.2071 | 0.22399 |
| 30 | 12.873 | 13.211 | 13.532 | 0.25255 | 12.229 | 12.702 | 13.2 | 0.26337 | -1.2286 | -0.50868 | 0.2397 | 0.43947 |
| 50 | 12.991 | 13.211 | 13.529 | 0.13803 | 12.154 | 12.627 | 13.217 | 0.37243 | -1.0387 | -0.58452 | -0.2814 | 0.31845 |
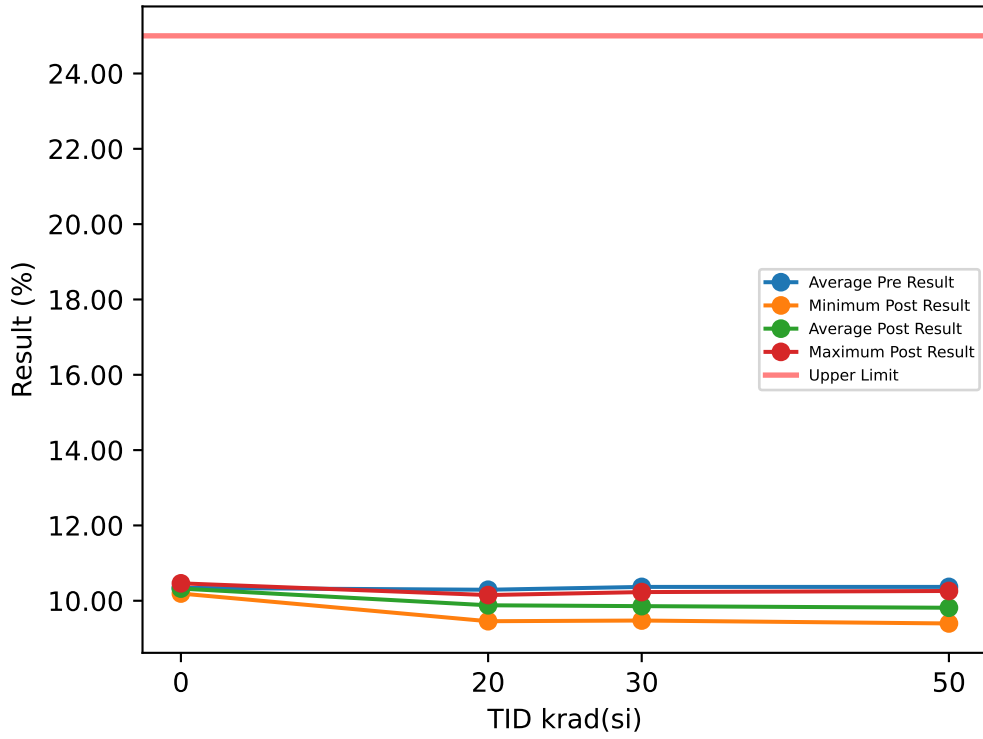
# Device Test: 15.108 VOL_SEQ_DONE_10MA(_EVEL|VOL/SEQ_DONE/1.6/3/0/0/10/@VOL_SEQ_DONE_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 10.393 | 9.7344 | -0.6587 |
| 2 | 20 | Bias | 10.427 | 9.7754 | -0.6515 |
| 3 | 20 | Bias | 10.529 | 9.8984 | -0.6306 |
| 4 | 20 | Bias | 10.052 | 9.4568 | -0.595 |
| 5 | 20 | Bias | 10.28 | 9.71 | -0.5695 |
| 6 | 20 | Unbiased | 10.386 | 10.152 | -0.2339 |
| 7 | 20 | Unbiased | 10.344 | 10.145 | -0.1995 |
| 8 | 20 | Unbiased | 10.318 | 10.108 | -0.21 |
| 9 | 20 | Unbiased | 10.116 | 9.9226 | -0.1937 |
| 10 | 20 | Unbiased | 10.079 | 9.8943 | -0.1845 |
| 11 | 30 | Bias | 10.473 | 9.6309 | -0.8424 |
| 12 | 30 | Bias | 10.6 | 9.677 | -0.923 |
| 13 | 30 | Bias | 10.506 | 9.8163 | -0.6896 |
| 14 | 30 | Bias | 10.224 | 9.7205 | -0.5033 |
| 15 | 30 | Bias | 10.48 | 9.475 | -1.0048 |
| 16 | 30 | Unbiased | 10.12 | 10.23 | 0.1101 |
| 17 | 30 | Unbiased | 10.153 | 9.888 | -0.2646 |
| 18 | 30 | Unbiased | 10.32 | 9.9251 | -0.3954 |
| 19 | 30 | Unbiased | 10.334 | 10.1 | -0.234 |
| 20 | 30 | Unbiased | 10.468 | 10.11 | -0.3582 |
| 21 | 50 | Bias | 10.467 | 9.6057 | -0.8612 |
| 22 | 50 | Bias | 10.423 | 9.5895 | -0.8331 |
| 23 | 50 | Bias | 10.233 | 9.5571 | -0.6761 |
| 24 | 50 | Bias | 10.28 | 9.4117 | -0.8685 |
| 25 | 50 | Bias | 10.28 | 9.3973 | -0.8828 |
| 26 | 50 | Unbiased | 10.291 | 10.021 | -0.27 |
| 27 | 50 | Unbiased | 10.402 | 10.117 | -0.2853 |
| 28 | 50 | Unbiased | 10.295 | 10.015 | -0.2798 |
| 29 | 50 | Unbiased | 10.557 | 10.26 | -0.2971 |
| 30 | 50 | Unbiased | 10.449 | 10.169 | -0.2797 |
| 31 | 0 | Correlation | 10.248 | 10.245 | -0.0035 |
| 32 | 0 | Correlation | 10.188 | 10.192 | 0.0041 |
| 33 | 0 | Correlation | 10.462 | 10.463 | 0.0008 |
| 34 | 0 | Correlation | 10.468 | 10.393 | -0.0748 |

## Test Statistics (%)
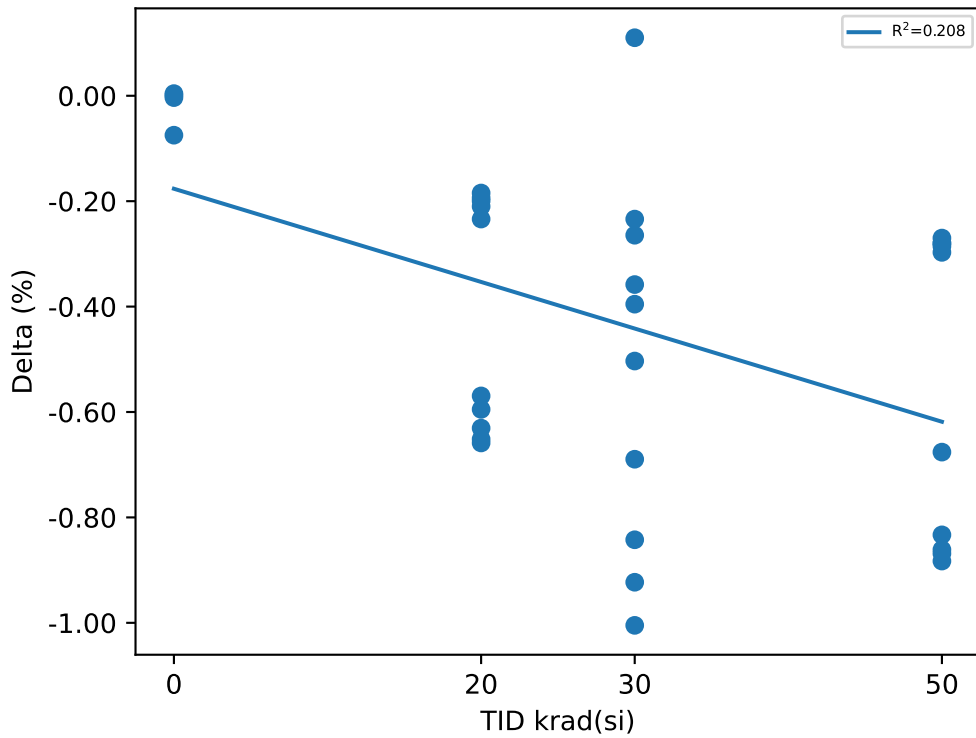
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.188 | 10.341 | 10.468 | 0.14478 | 10.192 | 10.323 | 10.463 | 0.12622 | -0.0748 | -0.01835 | 0.0041 | 0.037762 |
| 20 | 10.052 | 10.292 | 10.529 | 0.16017 | 9.4568 | 9.8796 | 10.152 | 0.22066 | -0.6587 | -0.41269 | -0.1845 | 0.22146 |
| 30 | 10.12 | 10.368 | 10.6 | 0.16275 | 9.475 | 9.8573 | 10.23 | 0.23985 | -1.0048 | -0.51052 | 0.1101 | 0.35202 |
| 50 | 10.233 | 10.368 | 10.557 | 0.10587 | 9.3973 | 9.8144 | 10.26 | 0.33254 | -0.8828 | -0.55336 | -0.27 | 0.29126 |

# Device Test: 15.109 VOL_PWRGD_10MA(_EVEL|VOL/PWRGD/1.6/3/0/0/10/@VOL_PWRGD_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

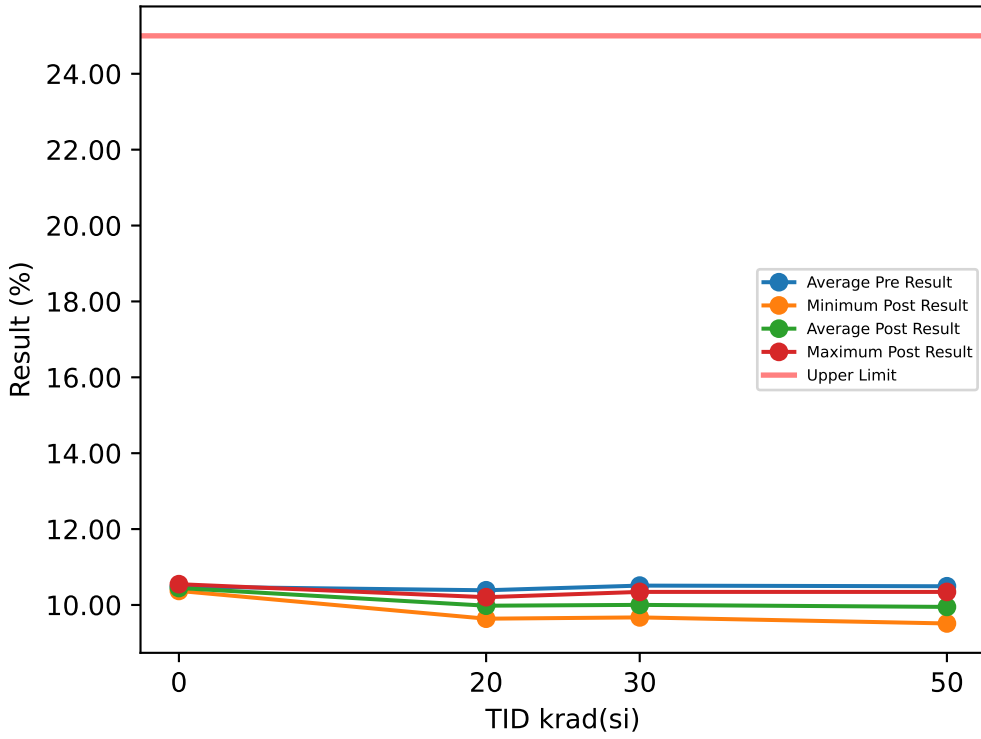| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 10.462 | 9.8144 | -0.6479 |
| 2 | 20 | Bias | 10.499 | 9.8581 | -0.6407 |
| 3 | 20 | Bias | 10.682 | 10.062 | -0.6202 |
| 4 | 20 | Bias | 10.232 | 9.6383 | -0.5942 |
| 5 | 20 | Bias | 10.29 | 9.7383 | -0.5516 |
| 6 | 20 | Unbiased | 10.431 | 10.205 | -0.2261 |
| 7 | 20 | Unbiased | 10.368 | 10.171 | -0.197 |
| 8 | 20 | Unbiased | 10.366 | 10.158 | -0.2077 |
| 9 | 20 | Unbiased | 10.26 | 10.067 | -0.1932 |
| 10 | 20 | Unbiased | 10.283 | 10.095 | -0.1878 |
| 11 | 30 | Bias | 10.602 | 9.7221 | -0.8803 |
| 12 | 30 | Bias | 10.681 | 9.8243 | -0.8572 |
| 13 | 30 | Bias | 10.537 | 9.9217 | -0.6157 |
| 14 | 30 | Bias | 10.415 | 9.7771 | -0.6374 |
| 15 | 30 | Bias | 10.585 | 9.6725 | -0.9124 |
| 16 | 30 | Unbiased | 10.35 | 10.344 | -0.0053 |
| 17 | 30 | Unbiased | 10.361 | 10.12 | -0.2408 |
| 18 | 30 | Unbiased | 10.496 | 10.139 | -0.3569 |
| 19 | 30 | Unbiased | 10.43 | 10.283 | -0.1465 |
| 20 | 30 | Unbiased | 10.647 | 10.216 | -0.4305 |
| 21 | 50 | Bias | 10.582 | 9.7968 | -0.7855 |
| 22 | 50 | Bias | 10.511 | 9.7185 | -0.792 |
| 23 | 50 | Bias | 10.318 | 9.6555 | -0.6623 |
| 24 | 50 | Bias | 10.442 | 9.5127 | -0.9295 |
| 25 | 50 | Bias | 10.435 | 9.5525 | -0.8828 |
| 26 | 50 | Unbiased | 10.611 | 10.339 | -0.2717 |
| 27 | 50 | Unbiased | 10.525 | 10.252 | -0.2736 |
| 28 | 50 | Unbiased | 10.343 | 10.065 | -0.2785 |
| 29 | 50 | Unbiased | 10.633 | 10.344 | -0.2889 |
| 30 | 50 | Unbiased | 10.531 | 10.255 | -0.2758 |
| 31 | 0 | Correlation | 10.365 | 10.37 | 0.0051 |
| 32 | 0 | Correlation | 10.393 | 10.401 | 0.0076 |
| 33 | 0 | Correlation | 10.541 | 10.548 | 0.0065 |
| 34 | 0 | Correlation | 10.636 | 10.469 | -0.1669 |

## Test Statistics (%)
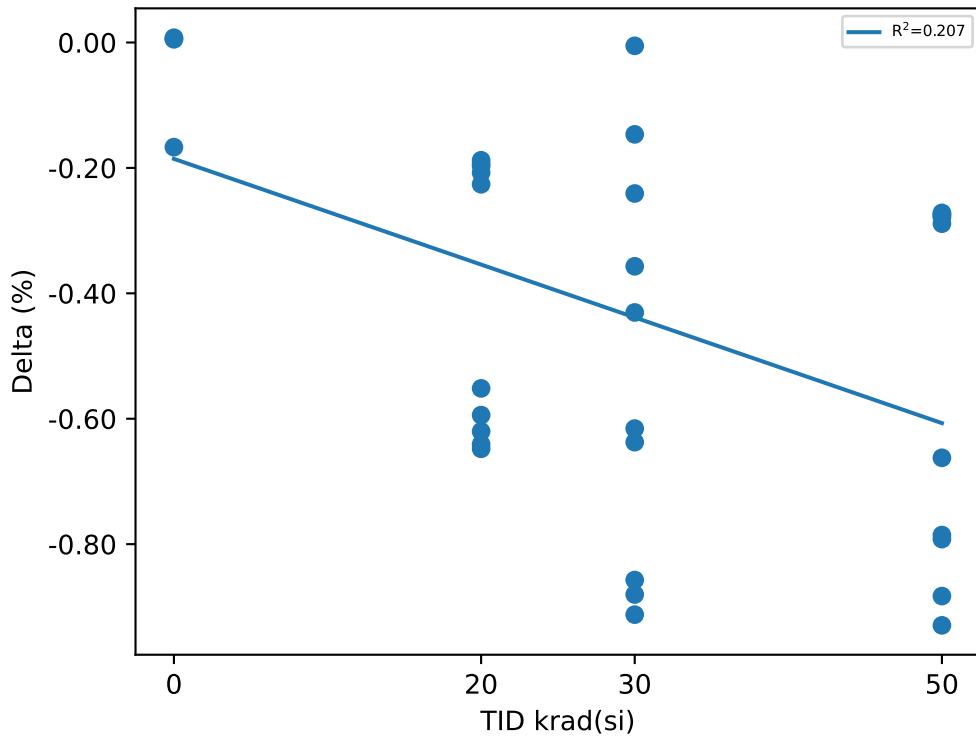
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.365 | 10.484 | 10.636 | 0.12769 | 10.37 | 10.447 | 10.548 | 0.079108 | -0.1669 | -0.036925 | 0.0076 | 0.086656 |
| 20 | 10.232 | 10.387 | 10.682 | 0.13665 | 9.6383 | 9.9807 | 10.205 | 0.201 | -0.6479 | -0.40664 | -0.1878 | 0.21714 |
| 30 | 10.35 | 10.51 | 10.681 | 0.11865 | 9.6725 | 10.002 | 10.344 | 0.24735 | -0.9124 | -0.5083 | -0.0053 | 0.3225 |
| 50 | 10.318 | 10.493 | 10.633 | 0.10717 | 9.5127 | 9.9491 | 10.344 | 0.33619 | -0.9295 | -0.54406 | -0.2717 | 0.28906 |

# Device Test: 15.11  ILKG_UP_DOWN(_LEAKAGE|UP/UP//3/0/0/0/@ILKG_UP_DOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

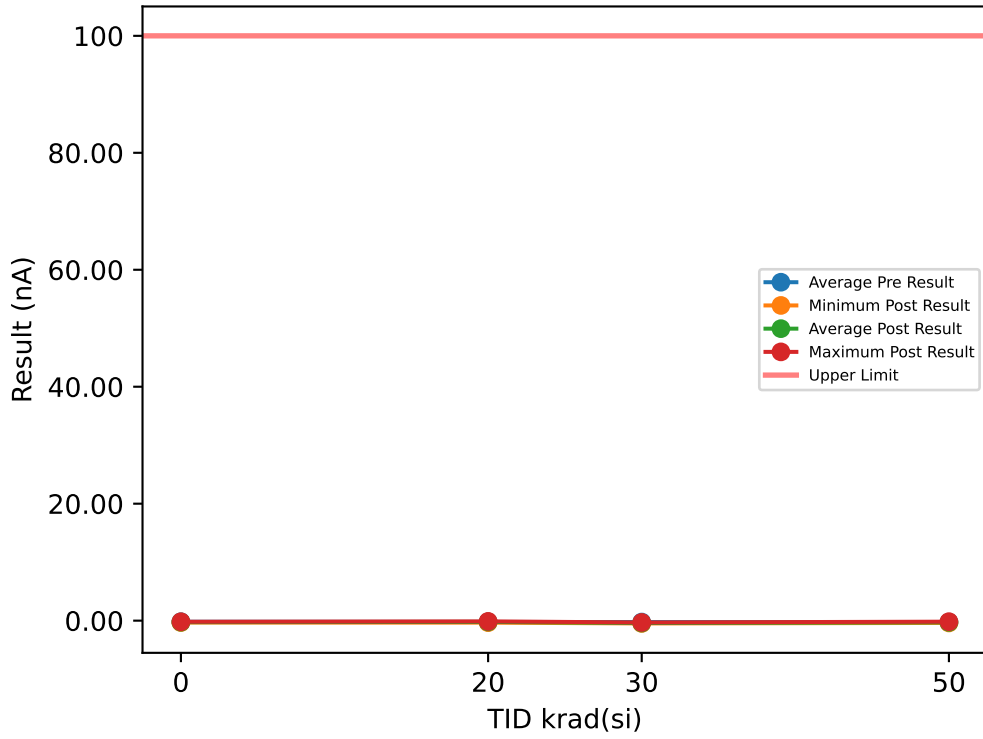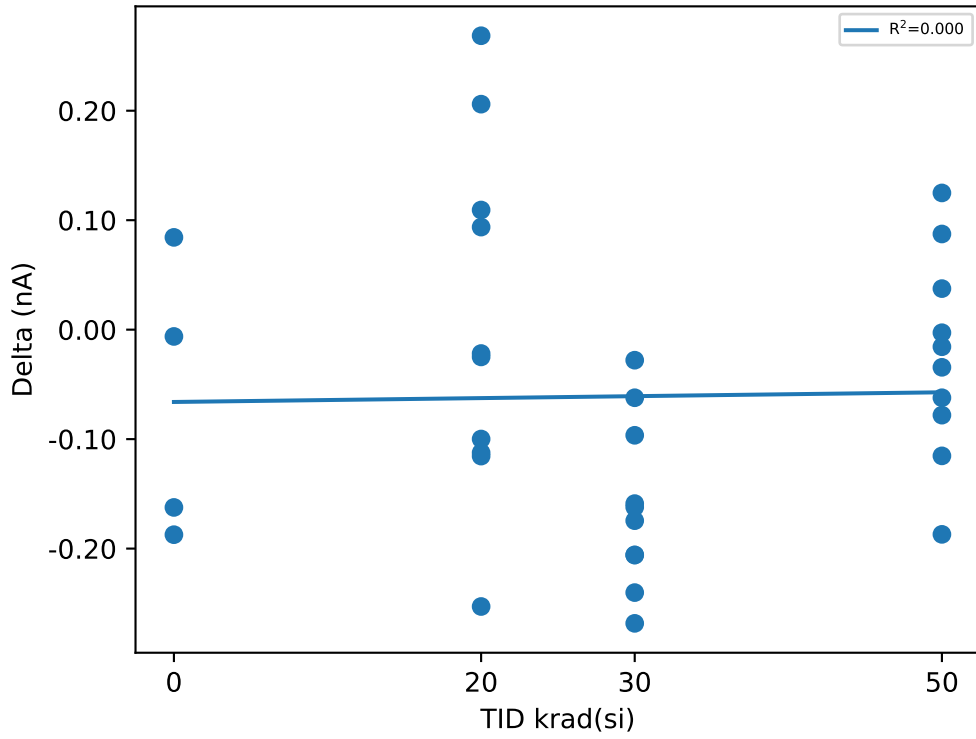| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | -0.4111 | -0.1426 | 0.2685 |
| 2 | 20 | Bias | -0.2581 | -0.1644 | 0.0937 |
| 3 | 20 | Bias | -0.0364 | -0.2893 | -0.2529 |
| 4 | 20 | Bias | -0.1519 | -0.2518 | -0.0999 |
| 5 | 20 | Bias | -0.23 | -0.3424 | -0.1124 |
| 6 | 20 | Unbiased | -0.102 | -0.1238 | -0.0218 |
| 7 | 20 | Unbiased | -0.1582 | -0.2737 | -0.1155 |
| 8 | 20 | Unbiased | -0.2612 | -0.1519 | 0.1093 |
| 9 | 20 | Unbiased | -0.2675 | -0.2924 | -0.0249 |
| 10 | 20 | Unbiased | -0.3486 | -0.1426 | 0.206 |
| 11 | 30 | Bias | -0.3205 | -0.3484 | -0.0279 |
| 12 | 30 | Bias | -0.1832 | -0.3577 | -0.1745 |
| 13 | 30 | Bias | -0.2706 | -0.3671 | -0.0965 |
| 14 | 30 | Bias | -0.2487 | -0.3109 | -0.0622 |
| 15 | 30 | Bias | -0.1551 | -0.314 | -0.1589 |
| 16 | 30 | Unbiased | -0.2737 | -0.4795 | -0.2058 |
| 17 | 30 | Unbiased | -0.1894 | -0.4577 | -0.2683 |
| 18 | 30 | Unbiased | -0.3174 | -0.4795 | -0.1621 |
| 19 | 30 | Unbiased | -0.2081 | -0.4483 | -0.2402 |
| 20 | 30 | Unbiased | -0.2237 | -0.4296 | -0.2059 |
| 21 | 50 | Bias | -0.1832 | -0.3702 | -0.187 |
| 22 | 50 | Bias | -0.2768 | -0.3921 | -0.1153 |
| 23 | 50 | Bias | -0.2799 | -0.3421 | -0.0622 |
| 24 | 50 | Bias | -0.2706 | -0.2734 | -0.0028 |
| 25 | 50 | Bias | -0.23 | -0.1925 | 0.0375 |
| 26 | 50 | Unbiased | -0.2987 | -0.1738 | 0.1249 |
| 27 | 50 | Unbiased | -0.2456 | -0.3237 | -0.0781 |
| 28 | 50 | Unbiased | -0.2862 | -0.3018 | -0.0156 |
| 29 | 50 | Unbiased | -0.2862 | -0.1988 | 0.0874 |
| 30 | 50 | Unbiased | -0.2893 | -0.3237 | -0.0344 |
| 31 | 0 | Correlation | -0.2706 | -0.1863 | 0.0843 |
| 32 | 0 | Correlation | -0.0895 | -0.2768 | -0.1873 |
| 33 | 0 | Correlation | -0.1644 | -0.3268 | -0.1624 |
| 34 | 0 | Correlation | -0.23 | -0.2362 | -0.0062 |

## Test Statistics (nA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | -0.2706 | -0.18862 | -0.0895 | 0.079256 | -0.3268 | -0.25653 | -0.1863 | 0.059706 | -0.1873 | -0.0679 | 0.0843 | 0.1293 |
| 20 | -0.4111 | -0.2225 | -0.0364 | 0.11284 | -0.3424 | -0.21749 | -0.1238 | 0.080155 | -0.2529 | 0.00501 | 0.2685 | 0.16194 |
| 30 | -0.3205 | -0.23904 | -0.1551 | 0.056654 | -0.4795 | -0.39927 | -0.3109 | 0.066702 | -0.2683 | -0.16023 | -0.0279 | 0.077193 |
| 50 | -0.2987 | -0.26465 | -0.1832 | 0.035448 | -0.3921 | -0.28921 | -0.1738 | 0.077156 | -0.187 | -0.02456 | 0.1249 | 0.093261 |

# Device Test: 15.110 VOL_EN_10MA(_EVEL|VOL/EN1/1.6/14/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

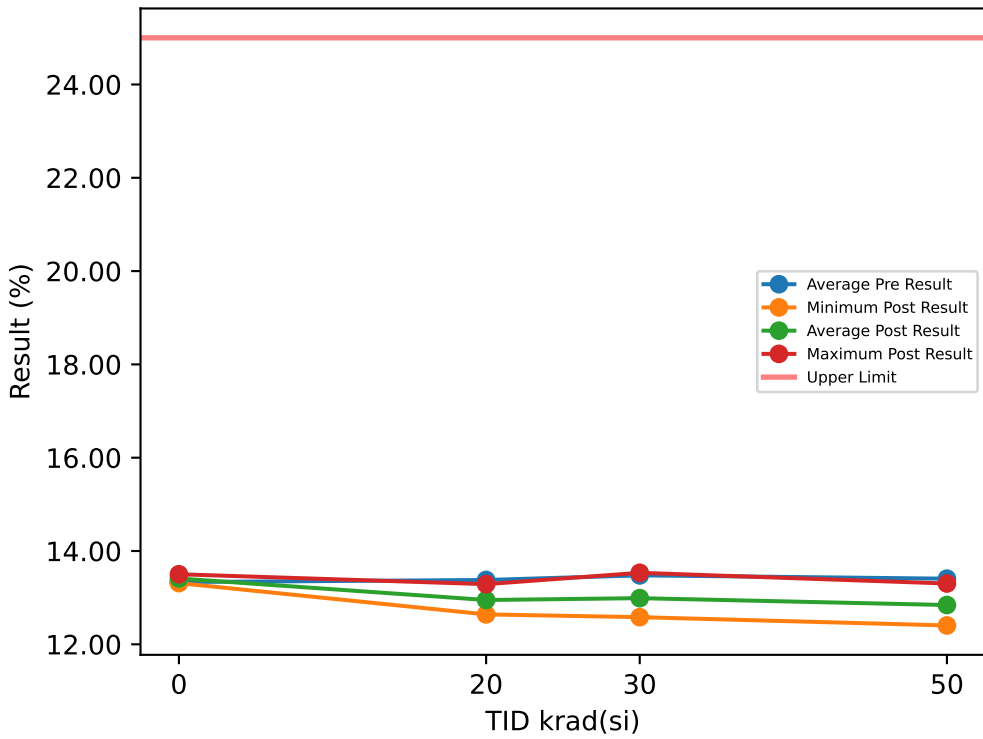| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 13.337 | 12.668 | -0.6692 |
| 2 | 20 | Bias | 13.37 | 12.722 | -0.648 |
| 3 | 20 | Bias | 13.512 | 12.861 | -0.6511 |
| 4 | 20 | Bias | 13.263 | 12.641 | -0.6222 |
| 5 | 20 | Bias | 13.384 | 12.773 | -0.6113 |
| 6 | 20 | Unbiased | 13.497 | 13.239 | -0.2588 |
| 7 | 20 | Unbiased | 13.456 | 13.245 | -0.2102 |
| 8 | 20 | Unbiased | 13.115 | 12.903 | -0.2117 |
| 9 | 20 | Unbiased | 13.361 | 13.155 | -0.2057 |
| 10 | 20 | Unbiased | 13.492 | 13.29 | -0.202 |
| 11 | 30 | Bias | 13.597 | 12.681 | -0.9154 |
| 12 | 30 | Bias | 13.599 | 12.795 | -0.8041 |
| 13 | 30 | Bias | 13.518 | 12.819 | -0.6993 |
| 14 | 30 | Bias | 13.372 | 12.722 | -0.6493 |
| 15 | 30 | Bias | 13.782 | 12.582 | -1.2007 |
| 16 | 30 | Unbiased | 13.39 | 13.532 | 0.142 |
| 17 | 30 | Unbiased | 13.245 | 13.149 | -0.0958 |
| 18 | 30 | Unbiased | 13.356 | 13.021 | -0.3349 |
| 19 | 30 | Unbiased | 13.675 | 13.134 | -0.5402 |
| 20 | 30 | Unbiased | 13.246 | 13.457 | 0.2109 |
| 21 | 50 | Bias | 13.366 | 12.431 | -0.9351 |
| 22 | 50 | Bias | 13.438 | 12.518 | -0.9205 |
| 23 | 50 | Bias | 13.443 | 12.593 | -0.85 |
| 24 | 50 | Bias | 13.382 | 12.594 | -0.7883 |
| 25 | 50 | Bias | 13.278 | 12.404 | -0.8736 |
| 26 | 50 | Unbiased | 13.293 | 13.049 | -0.2438 |
| 27 | 50 | Unbiased | 13.335 | 13.086 | -0.2492 |
| 28 | 50 | Unbiased | 13.553 | 13.287 | -0.2666 |
| 29 | 50 | Unbiased | 13.56 | 13.303 | -0.2566 |
| 30 | 50 | Unbiased | 13.421 | 13.155 | -0.2661 |
| 31 | 0 | Correlation | 13.498 | 13.502 | 0.0039 |
| 32 | 0 | Correlation | 13.307 | 13.312 | 0.0053 |
| 33 | 0 | Correlation | 13.358 | 13.365 | 0.0071 |
| 34 | 0 | Correlation | 13.176 | 13.466 | 0.2897 |

## Test Statistics (%)
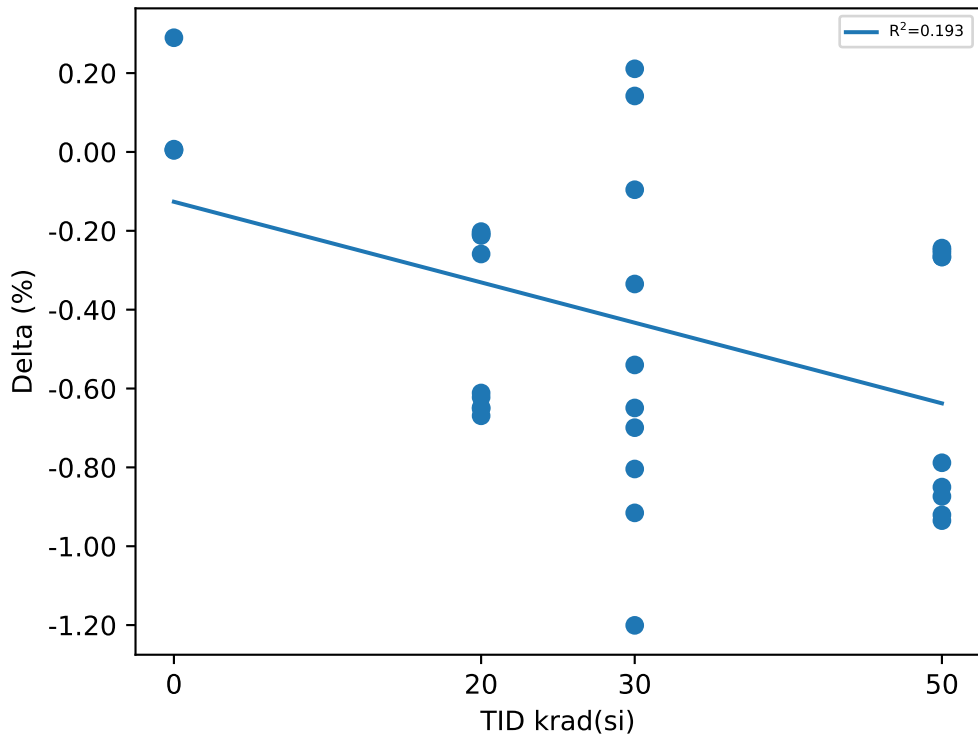
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 13.176 | 13.335 | 13.498 | 0.13302 | 13.312 | 13.411 | 13.502 | 0.08771 | 0.0039 | 0.0765 | 0.2897 | 0.14214 |
| 20 | 13.115 | 13.379 | 13.512 | 0.12274 | 12.641 | 12.95 | 13.29 | 0.25741 | -0.6692 | -0.42902 | -0.202 | 0.22385 |
| 30 | 13.245 | 13.478 | 13.782 | 0.18366 | 12.582 | 12.989 | 13.532 | 0.32672 | -1.2007 | -0.48868 | 0.2109 | 0.46267 |
| 50 | 13.278 | 13.407 | 13.56 | 0.096928 | 12.404 | 12.842 | 13.303 | 0.36521 | -0.9351 | -0.56498 | -0.2438 | 0.32763 |

# Device Test: 15.111 VOL_EN_10MA(_EVEL|VOL/EN2/1.6/14/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

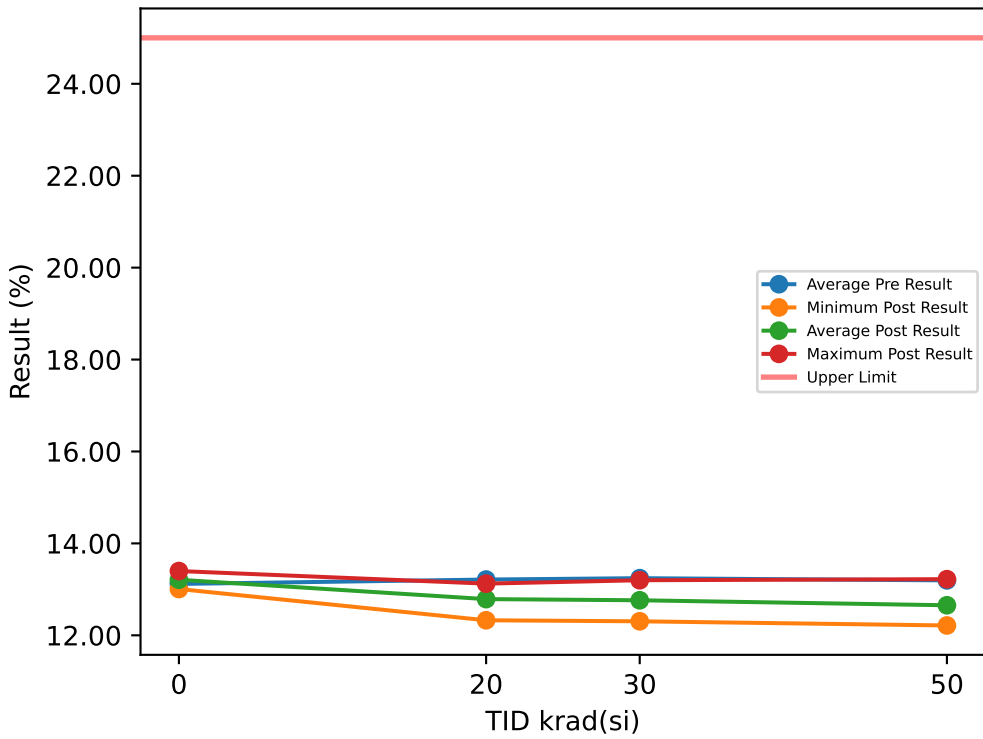| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 13.303 | 12.624 | -0.6791 |
| 2 | 20 | Bias | 13.318 | 12.657 | -0.6607 |
| 3 | 20 | Bias | 13.472 | 12.821 | -0.6505 |
| 4 | 20 | Bias | 12.928 | 12.327 | -0.6011 |
| 5 | 20 | Bias | 13.128 | 12.537 | -0.5908 |
| 6 | 20 | Unbiased | 13.314 | 13.06 | -0.2535 |
| 7 | 20 | Unbiased | 13.301 | 13.091 | -0.2095 |
| 8 | 20 | Unbiased | 13.345 | 13.124 | -0.221 |
| 9 | 20 | Unbiased | 13.021 | 12.823 | -0.1976 |
| 10 | 20 | Unbiased | 13.004 | 12.812 | -0.1923 |
| 11 | 30 | Bias | 13.431 | 12.608 | -0.8229 |
| 12 | 30 | Bias | 13.551 | 12.638 | -0.9124 |
| 13 | 30 | Bias | 13.463 | 12.768 | -0.6955 |
| 14 | 30 | Bias | 13.065 | 12.655 | -0.41 |
| 15 | 30 | Bias | 13.445 | 12.305 | -1.14 |
| 16 | 30 | Unbiased | 13.031 | 13.198 | 0.167 |
| 17 | 30 | Unbiased | 12.956 | 12.804 | -0.1518 |
| 18 | 30 | Unbiased | 13.028 | 12.739 | -0.289 |
| 19 | 30 | Unbiased | 13.297 | 12.816 | -0.4808 |
| 20 | 30 | Unbiased | 13.166 | 13.092 | -0.074 |
| 21 | 50 | Bias | 13.168 | 12.335 | -0.8328 |
| 22 | 50 | Bias | 13.233 | 12.334 | -0.8993 |
| 23 | 50 | Bias | 13.023 | 12.391 | -0.6316 |
| 24 | 50 | Bias | 13.115 | 12.226 | -0.8897 |
| 25 | 50 | Bias | 13.08 | 12.214 | -0.8658 |
| 26 | 50 | Unbiased | 13.147 | 12.899 | -0.2479 |
| 27 | 50 | Unbiased | 13.21 | 12.953 | -0.2569 |
| 28 | 50 | Unbiased | 13.121 | 12.856 | -0.2645 |
| 29 | 50 | Unbiased | 13.488 | 13.222 | -0.266 |
| 30 | 50 | Unbiased | 13.369 | 13.106 | -0.2625 |
| 31 | 0 | Correlation | 13.099 | 13.103 | 0.0035 |
| 32 | 0 | Correlation | 13.002 | 13.007 | 0.0047 |
| 33 | 0 | Correlation | 13.32 | 13.329 | 0.0086 |
| 34 | 0 | Correlation | 13.051 | 13.398 | 0.3474 |

## Test Statistics (%)
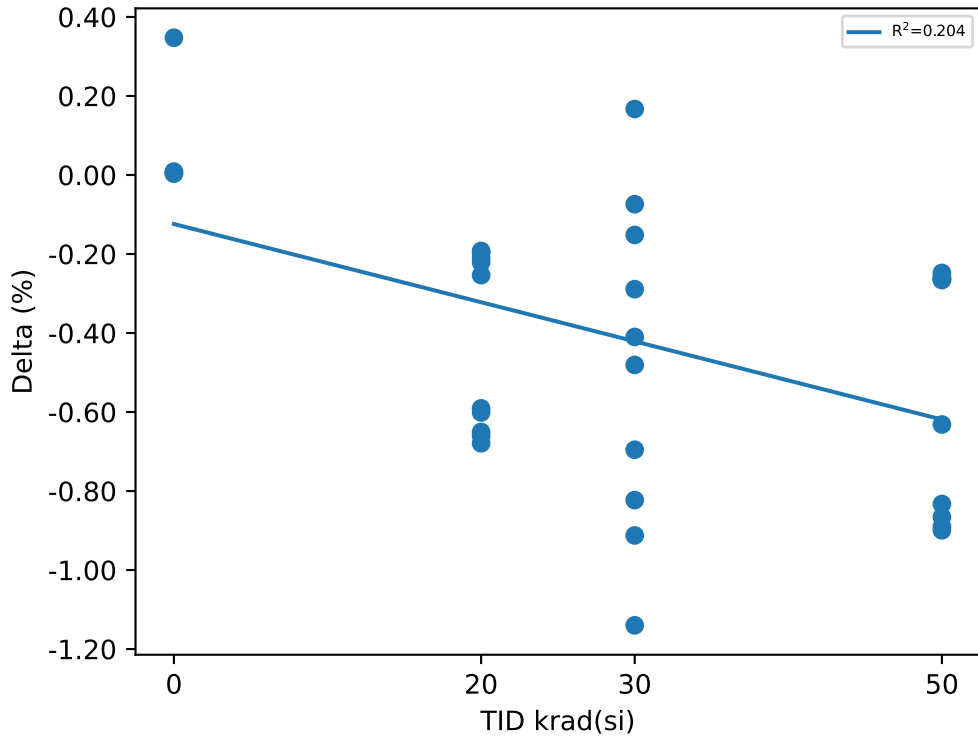
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 13.002 | 13.118 | 13.32 | 0.14025 | 13.007 | 13.209 | 13.398 | 0.18461 | 0.0035 | 0.09105 | 0.3474 | 0.17091 |
| 20 | 12.928 | 13.213 | 13.472 | 0.17965 | 12.327 | 12.788 | 13.124 | 0.25859 | -0.6791 | -0.42561 | -0.1923 | 0.2243 |
| 30 | 12.956 | 13.243 | 13.551 | 0.21937 | 12.305 | 12.762 | 13.198 | 0.25033 | -1.14 | -0.48094 | 0.167 | 0.41084 |
| 50 | 13.023 | 13.195 | 13.488 | 0.13958 | 12.214 | 12.654 | 13.222 | 0.38985 | -0.8993 | -0.5417 | -0.2479 | 0.30643 |

# Device Test: 15.112 VOL_EN_10MA(_EVEL|VOL/EN3/1.6/14/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

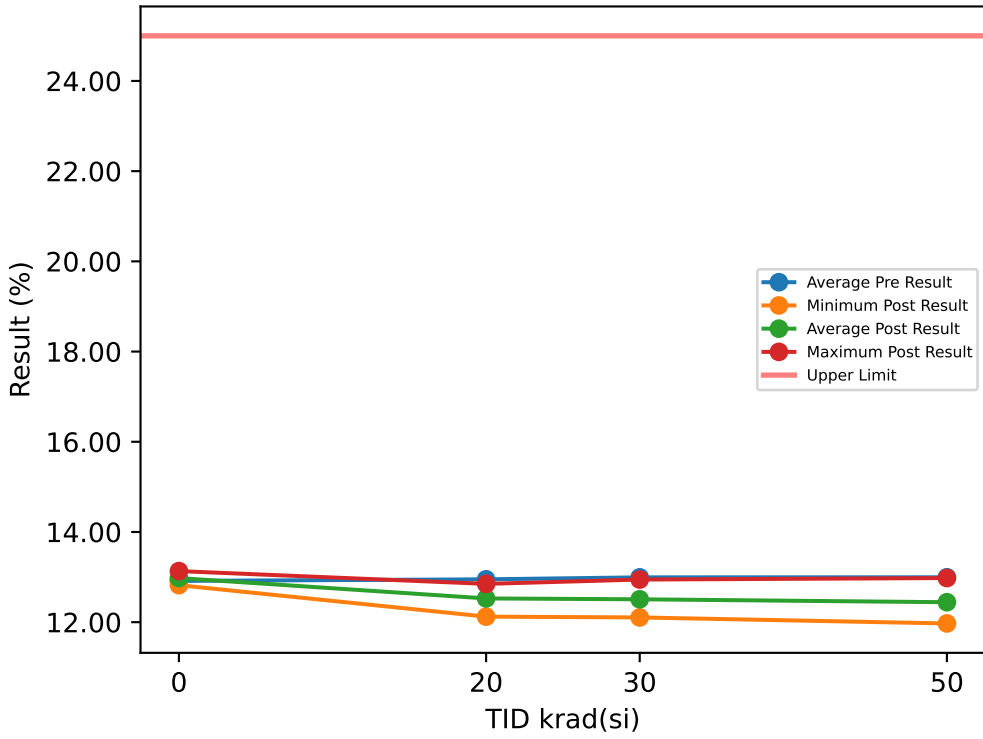| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 13.033 | 12.357 | -0.6759 |
| 2 | 20 | Bias | 13.111 | 12.447 | -0.6644 |
| 3 | 20 | Bias | 13.179 | 12.528 | -0.6511 |
| 4 | 20 | Bias | 12.72 | 12.123 | -0.5971 |
| 5 | 20 | Bias | 12.854 | 12.27 | -0.5841 |
| 6 | 20 | Unbiased | 13.002 | 12.752 | -0.2504 |
| 7 | 20 | Unbiased | 12.993 | 12.786 | -0.2065 |
| 8 | 20 | Unbiased | 13.072 | 12.849 | -0.2221 |
| 9 | 20 | Unbiased | 12.775 | 12.579 | -0.1967 |
| 10 | 20 | Unbiased | 12.763 | 12.573 | -0.1897 |
| 11 | 30 | Bias | 13.209 | 12.353 | -0.8558 |
| 12 | 30 | Bias | 13.266 | 12.415 | -0.8516 |
| 13 | 30 | Bias | 13.165 | 12.48 | -0.6847 |
| 14 | 30 | Bias | 12.867 | 12.36 | -0.5068 |
| 15 | 30 | Bias | 13.189 | 12.105 | -1.0839 |
| 16 | 30 | Unbiased | 12.782 | 12.945 | 0.1632 |
| 17 | 30 | Unbiased | 12.713 | 12.556 | -0.1568 |
| 18 | 30 | Unbiased | 12.758 | 12.496 | -0.2615 |
| 19 | 30 | Unbiased | 13.024 | 12.546 | -0.4779 |
| 20 | 30 | Unbiased | 12.967 | 12.818 | -0.1489 |
| 21 | 50 | Bias | 12.986 | 12.135 | -0.8507 |
| 22 | 50 | Bias | 13.063 | 12.144 | -0.9184 |
| 23 | 50 | Bias | 12.788 | 12.206 | -0.5824 |
| 24 | 50 | Bias | 12.984 | 11.983 | -1.0009 |
| 25 | 50 | Bias | 12.832 | 11.972 | -0.8605 |
| 26 | 50 | Unbiased | 12.973 | 12.726 | -0.2461 |
| 27 | 50 | Unbiased | 13.079 | 12.814 | -0.2651 |
| 28 | 50 | Unbiased | 12.921 | 12.658 | -0.2637 |
| 29 | 50 | Unbiased | 13.248 | 12.978 | -0.2695 |
| 30 | 50 | Unbiased | 13.078 | 12.811 | -0.267 |
| 31 | 0 | Correlation | 12.86 | 12.863 | 0.0035 |
| 32 | 0 | Correlation | 12.821 | 12.82 | -0.0004 |
| 33 | 0 | Correlation | 13.091 | 13.094 | 0.0027 |
| 34 | 0 | Correlation | 12.89 | 13.133 | 0.2429 |

## Test Statistics (%)
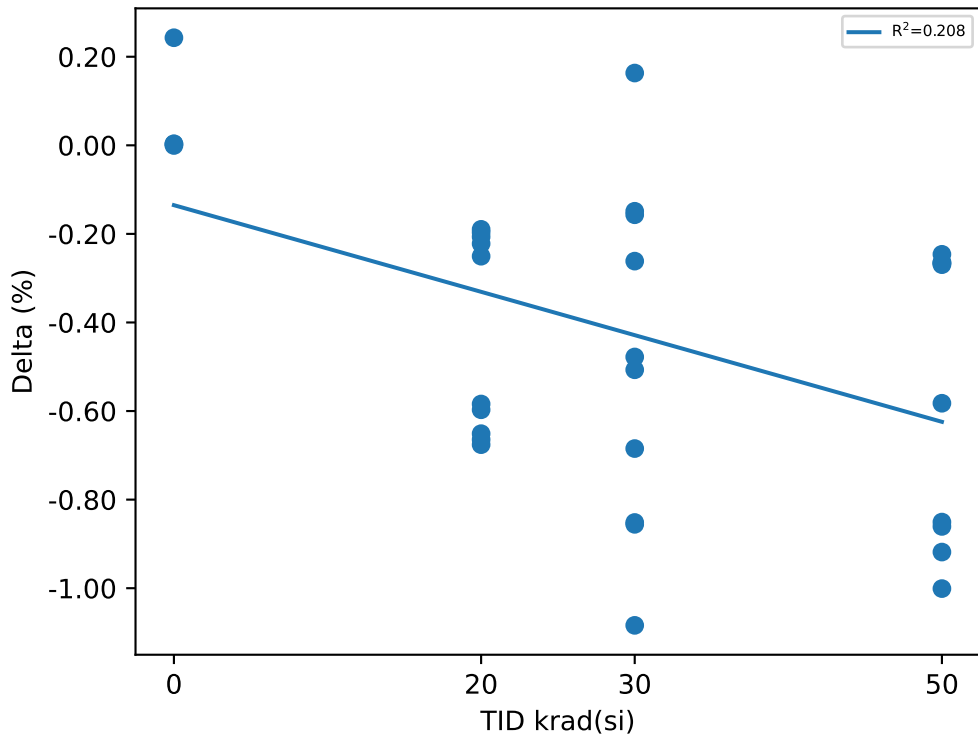
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.821 | 12.915 | 13.091 | 0.12053 | 12.82 | 12.978 | 13.133 | 0.15837 | -0.0004 | 0.062175 | 0.2429 | 0.1205 |
| 20 | 12.72 | 12.95 | 13.179 | 0.16056 | 12.123 | 12.526 | 12.849 | 0.23355 | -0.6759 | -0.4238 | -0.1897 | 0.2244 |
| 30 | 12.713 | 12.994 | 13.266 | 0.20682 | 12.105 | 12.507 | 12.945 | 0.2378 | -1.0839 | -0.48647 | 0.1632 | 0.38898 |
| 50 | 12.788 | 12.995 | 13.248 | 0.13245 | 11.972 | 12.443 | 12.978 | 0.38873 | -1.0009 | -0.55243 | -0.2461 | 0.32337 |

# Device Test: 15.113 VOL_EN_10MA(_EVEL|VOL/EN4/1.6/14/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

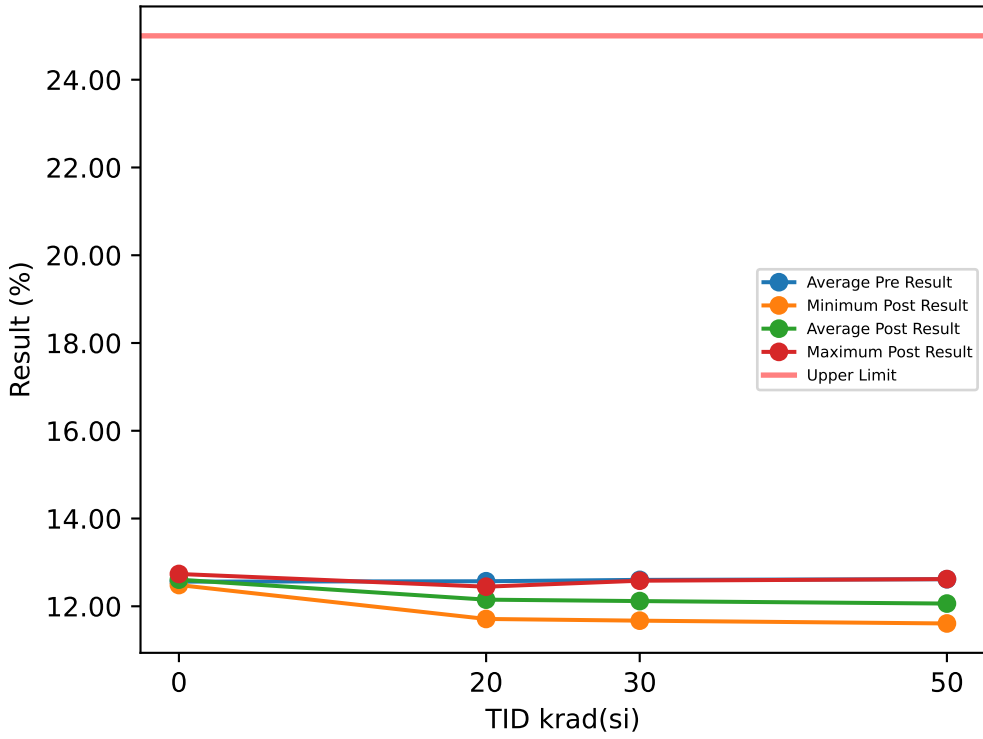| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 12.659 | 11.992 | -0.6671 |
| 2 | 20 | Bias | 12.694 | 12.041 | -0.6527 |
| 3 | 20 | Bias | 12.769 | 12.122 | -0.6465 |
| 4 | 20 | Bias | 12.309 | 11.711 | -0.5974 |
| 5 | 20 | Bias | 12.541 | 11.959 | -0.5822 |
| 6 | 20 | Unbiased | 12.688 | 12.436 | -0.2514 |
| 7 | 20 | Unbiased | 12.657 | 12.447 | -0.2107 |
| 8 | 20 | Unbiased | 12.629 | 12.411 | -0.2181 |
| 9 | 20 | Unbiased | 12.377 | 12.188 | -0.188 |
| 10 | 20 | Unbiased | 12.385 | 12.203 | -0.1823 |
| 11 | 30 | Bias | 12.827 | 11.941 | -0.886 |
| 12 | 30 | Bias | 12.892 | 12.034 | -0.8583 |
| 13 | 30 | Bias | 12.797 | 12.112 | -0.6846 |
| 14 | 30 | Bias | 12.421 | 12.001 | -0.4201 |
| 15 | 30 | Bias | 12.819 | 11.672 | -1.1471 |
| 16 | 30 | Unbiased | 12.399 | 12.583 | 0.1839 |
| 17 | 30 | Unbiased | 12.285 | 12.178 | -0.1066 |
| 18 | 30 | Unbiased | 12.34 | 12.073 | -0.2671 |
| 19 | 30 | Unbiased | 12.661 | 12.135 | -0.5255 |
| 20 | 30 | Unbiased | 12.579 | 12.458 | -0.1212 |
| 21 | 50 | Bias | 12.62 | 11.748 | -0.8717 |
| 22 | 50 | Bias | 12.662 | 11.781 | -0.881 |
| 23 | 50 | Bias | 12.409 | 11.81 | -0.5992 |
| 24 | 50 | Bias | 12.609 | 11.609 | -1.0001 |
| 25 | 50 | Bias | 12.543 | 11.673 | -0.8694 |
| 26 | 50 | Unbiased | 12.545 | 12.296 | -0.2487 |
| 27 | 50 | Unbiased | 12.633 | 12.369 | -0.2648 |
| 28 | 50 | Unbiased | 12.579 | 12.31 | -0.2692 |
| 29 | 50 | Unbiased | 12.892 | 12.62 | -0.2725 |
| 30 | 50 | Unbiased | 12.677 | 12.406 | -0.2717 |
| 31 | 0 | Correlation | 12.49 | 12.489 | -0.0012 |
| 32 | 0 | Correlation | 12.489 | 12.484 | -0.0043 |
| 33 | 0 | Correlation | 12.738 | 12.736 | -0.0016 |
| 34 | 0 | Correlation | 12.532 | 12.719 | 0.1866 |

## Test Statistics (%)
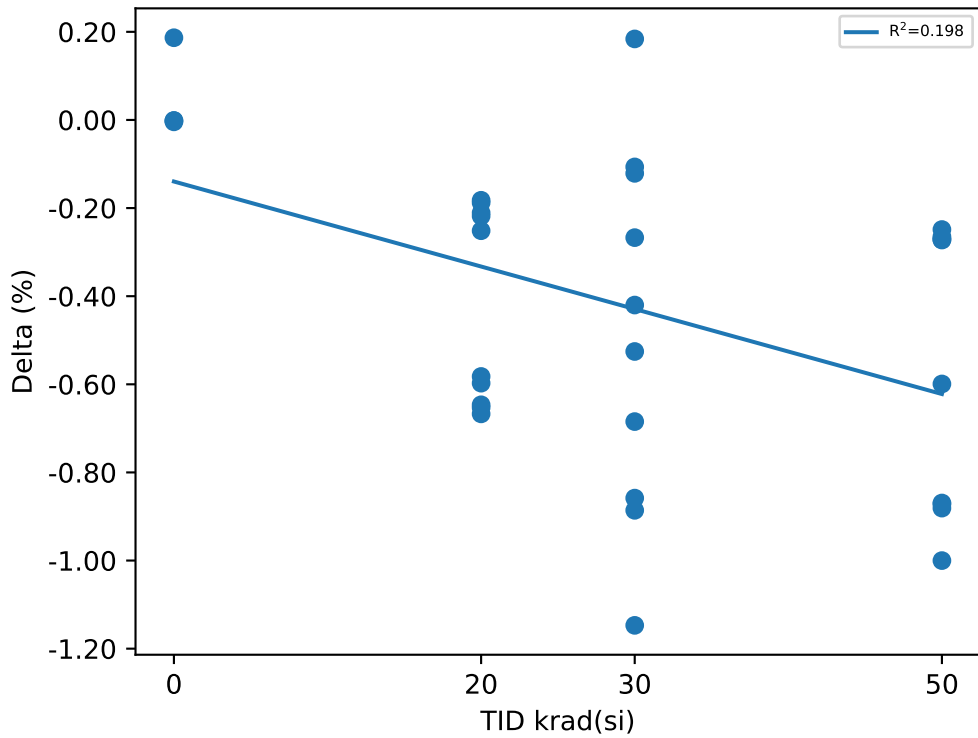
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 12.489 | 12.562 | 12.738 | 0.11897 | 12.484 | 12.607 | 12.736 | 0.13942 | -0.0043 | 0.044875 | 0.1866 | 0.094493 |
| 20 | 12.309 | 12.571 | 12.769 | 0.15937 | 11.711 | 12.151 | 12.447 | 0.23775 | -0.6671 | -0.41964 | -0.1823 | 0.22301 |
| 30 | 12.285 | 12.602 | 12.892 | 0.22783 | 11.672 | 12.119 | 12.583 | 0.25565 | -1.1471 | -0.48326 | 0.1839 | 0.41562 |
| 50 | 12.409 | 12.617 | 12.892 | 0.12336 | 11.609 | 12.062 | 12.62 | 0.37074 | -1.0001 | -0.55483 | -0.2487 | 0.32064 |
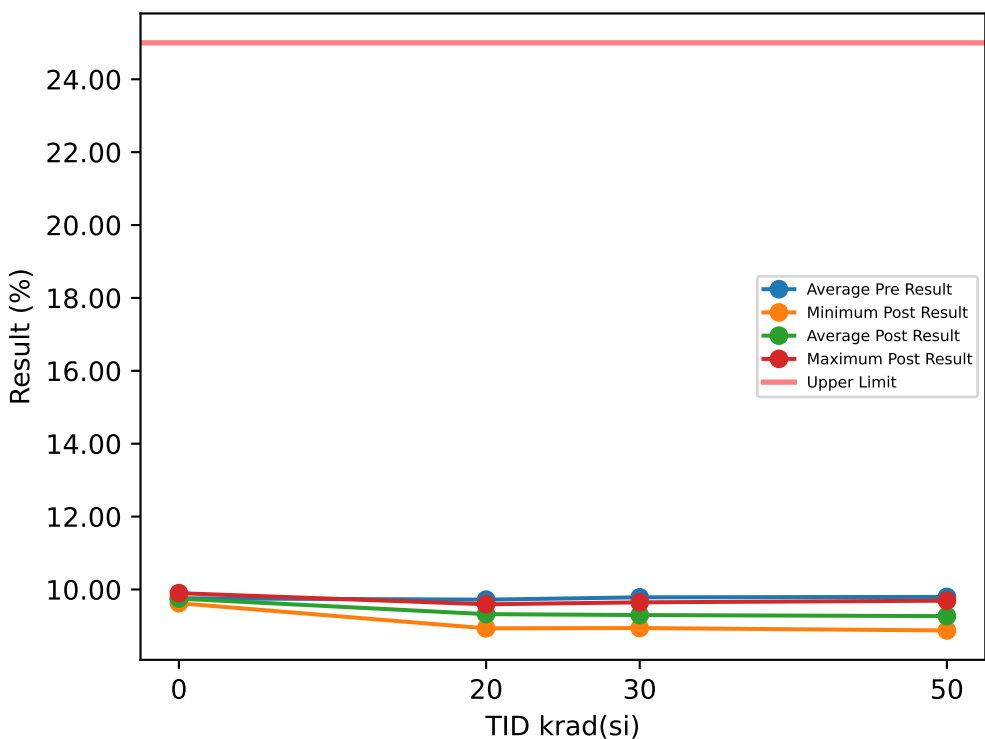
# Device Test: 15.114 VOL_SEQ_DONE_10MA(_EVEL|VOL/SEQ_DONE/1.6/14/0/0/10/@VOL_SEQ_DONE_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 9.8244 | 9.1796 | -0.6448 |
| 2 | 20 | Bias | 9.8488 | 9.2159 | -0.6329 |
| 3 | 20 | Bias | 9.915 | 9.2981 | -0.6169 |
| 4 | 20 | Bias | 9.5134 | 8.934 | -0.5794 |
| 5 | 20 | Bias | 9.6997 | 9.154 | -0.5457 |
| 6 | 20 | Unbiased | 9.7848 | 9.5638 | -0.221 |
| 7 | 20 | Unbiased | 9.7857 | 9.5933 | -0.1924 |
| 8 | 20 | Unbiased | 9.7375 | 9.5394 | -0.1981 |
| 9 | 20 | Unbiased | 9.5407 | 9.3658 | -0.1749 |
| 10 | 20 | Unbiased | 9.5548 | 9.3869 | -0.1679 |
| 11 | 30 | Bias | 9.8693 | 9.0706 | -0.7987 |
| 12 | 30 | Bias | 9.9876 | 9.1045 | -0.8831 |
| 13 | 30 | Bias | 9.9107 | 9.23 | -0.6807 |
| 14 | 30 | Bias | 9.6715 | 9.1432 | -0.5283 |
| 15 | 30 | Bias | 9.872 | 8.9416 | -0.9304 |
| 16 | 30 | Unbiased | 9.5776 | 9.6471 | 0.0695 |
| 17 | 30 | Unbiased | 9.587 | 9.3649 | -0.2221 |
| 18 | 30 | Unbiased | 9.7315 | 9.3772 | -0.3543 |
| 19 | 30 | Unbiased | 9.7729 | 9.5281 | -0.2448 |
| 20 | 30 | Unbiased | 9.8685 | 9.5735 | -0.295 |
| 21 | 50 | Bias | 9.8474 | 9.0358 | -0.8116 |
| 22 | 50 | Bias | 9.859 | 9.0087 | -0.8503 |
| 23 | 50 | Bias | 9.6702 | 9.0194 | -0.6508 |
| 24 | 50 | Bias | 9.7149 | 8.8801 | -0.8348 |
| 25 | 50 | Bias | 9.7332 | 8.8754 | -0.8578 |
| 26 | 50 | Unbiased | 9.7235 | 9.4826 | -0.2409 |
| 27 | 50 | Unbiased | 9.8441 | 9.5911 | -0.253 |
| 28 | 50 | Unbiased | 9.7321 | 9.48 | -0.2521 |
| 29 | 50 | Unbiased | 9.954 | 9.6924 | -0.2616 |
| 30 | 50 | Unbiased | 9.8828 | 9.6251 | -0.2577 |
| 31 | 0 | Correlation | 9.6628 | 9.6639 | 0.0011 |
| 32 | 0 | Correlation | 9.621 | 9.6235 | 0.0025 |
| 33 | 0 | Correlation | 9.8957 | 9.8988 | 0.0031 |
| 34 | 0 | Correlation | 9.8504 | 9.81 | -0.0404 |

## Test Statistics (%)
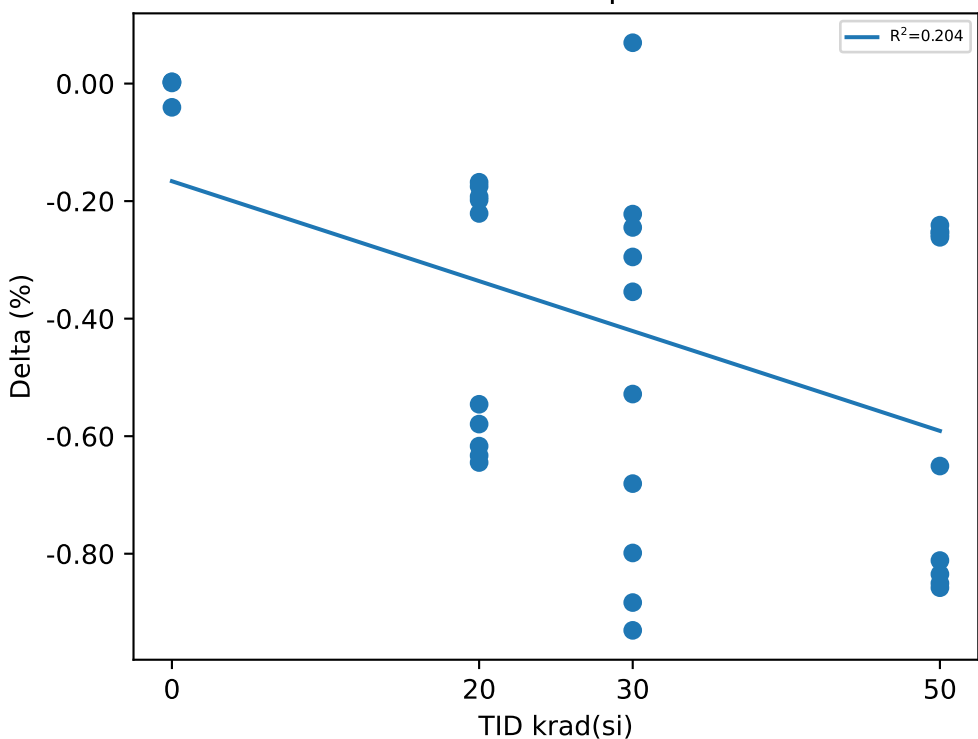
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9.621 | 9.7575 | 9.8957 | 0.13581 | 9.6235 | 9.7491 | 9.8988 | 0.128 | -0.0404 | -0.008425 | 0.0031 | 0.021333 |
| 20 | 9.5134 | 9.7205 | 9.915 | 0.14019 | 8.934 | 9.3231 | 9.5933 | 0.20985 | -0.6448 | -0.3974 | -0.1679 | 0.21985 |
| 30 | 9.5776 | 9.7849 | 9.9876 | 0.14008 | 8.9416 | 9.2981 | 9.6471 | 0.23717 | -0.9304 | -0.48679 | 0.0695 | 0.33047 |
| 50 | 9.6702 | 9.7961 | 9.954 | 0.092562 | 8.8754 | 9.2691 | 9.6924 | 0.33176 | -0.8578 | -0.52706 | -0.2409 | 0.29448 |

# Device Test: 15.115 VOL_PWRGD_10MA(_EVEL|VOL/PWRGD/1.6/14/0/0/10/@VOL_PWRGD_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

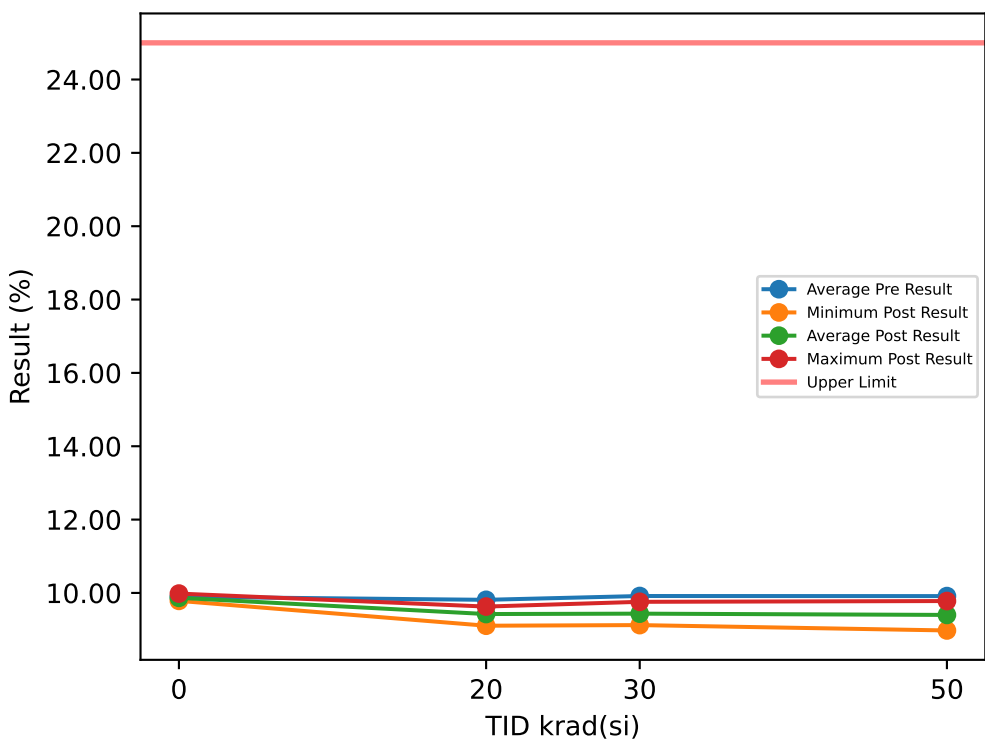| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 9.8952 | 9.2649 | -0.6303 |
| 2 | 20 | Bias | 9.92 | 9.3038 | -0.6162 |
| 3 | 20 | Bias | 10.056 | 9.4521 | -0.6036 |
| 4 | 20 | Bias | 9.6846 | 9.106 | -0.5786 |
| 5 | 20 | Bias | 9.7182 | 9.1884 | -0.5298 |
| 6 | 20 | Unbiased | 9.8328 | 9.6212 | -0.2116 |
| 7 | 20 | Unbiased | 9.8068 | 9.628 | -0.1788 |
| 8 | 20 | Unbiased | 9.7844 | 9.597 | -0.1874 |
| 9 | 20 | Unbiased | 9.6764 | 9.5035 | -0.1729 |
| 10 | 20 | Unbiased | 9.7453 | 9.579 | -0.1663 |
| 11 | 30 | Bias | 9.9831 | 9.1616 | -0.8215 |
| 12 | 30 | Bias | 10.072 | 9.2386 | -0.8329 |
| 13 | 30 | Bias | 9.9442 | 9.3315 | -0.6127 |
| 14 | 30 | Bias | 9.8439 | 9.2053 | -0.6386 |
| 15 | 30 | Bias | 9.9751 | 9.1231 | -0.852 |
| 16 | 30 | Unbiased | 9.7834 | 9.7576 | -0.0258 |
| 17 | 30 | Unbiased | 9.7771 | 9.5774 | -0.1997 |
| 18 | 30 | Unbiased | 9.8886 | 9.5796 | -0.309 |
| 19 | 30 | Unbiased | 9.8615 | 9.6965 | -0.165 |
| 20 | 30 | Unbiased | 10.031 | 9.6787 | -0.3524 |
| 21 | 50 | Bias | 9.9528 | 9.2115 | -0.7413 |
| 22 | 50 | Bias | 9.9487 | 9.1327 | -0.816 |
| 23 | 50 | Bias | 9.7516 | 9.1225 | -0.6291 |
| 24 | 50 | Bias | 9.8646 | 8.9767 | -0.8879 |
| 25 | 50 | Bias | 9.8749 | 9.0252 | -0.8497 |
| 26 | 50 | Unbiased | 10.008 | 9.7736 | -0.2343 |
| 27 | 50 | Unbiased | 9.9651 | 9.7236 | -0.2415 |
| 28 | 50 | Unbiased | 9.7793 | 9.5394 | -0.2399 |
| 29 | 50 | Unbiased | 10.026 | 9.7787 | -0.2471 |
| 30 | 50 | Unbiased | 9.9647 | 9.7195 | -0.2452 |
| 31 | 0 | Correlation | 9.7799 | 9.7834 | 0.0035 |
| 32 | 0 | Correlation | 9.8103 | 9.8173 | 0.007 |
| 33 | 0 | Correlation | 9.9784 | 9.9823 | 0.0039 |
| 34 | 0 | Correlation | 10.011 | 9.8829 | -0.1281 |

## Test Statistics (%)
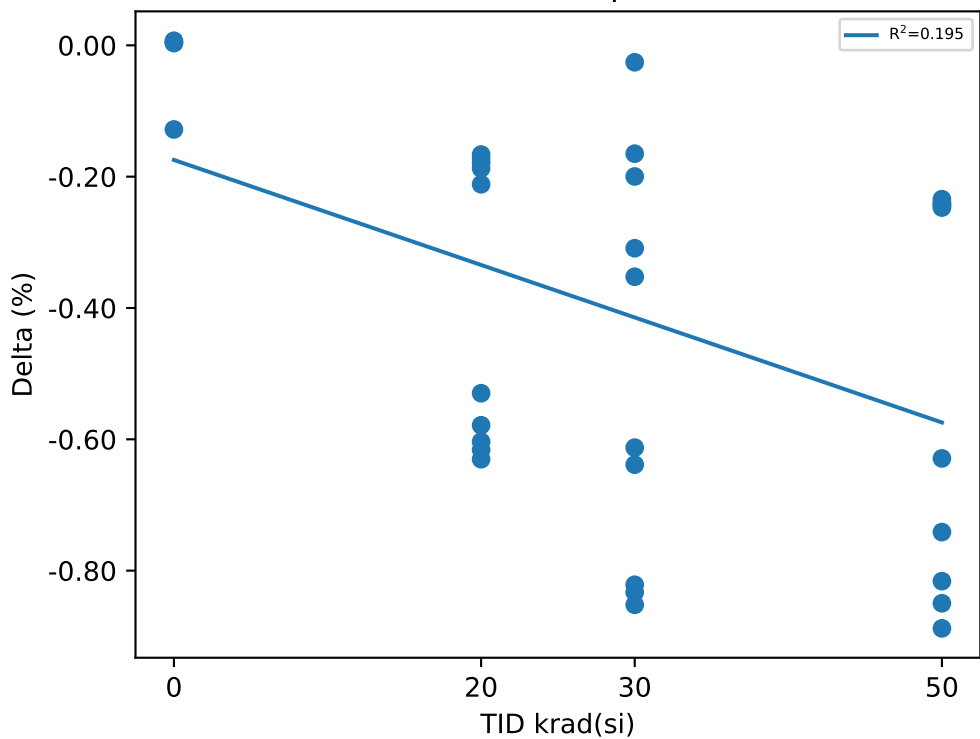
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9.7799 | 9.8949 | 10.011 | 0.11667 | 9.7834 | 9.8665 | 9.9823 | 0.087569 | -0.1281 | -0.028425 | 0.007 | 0.066468 |
| 20 | 9.6764 | 9.8119 | 10.056 | 0.11882 | 9.106 | 9.4244 | 9.628 | 0.19378 | -0.6303 | -0.38755 | -0.1663 | 0.21711 |
| 30 | 9.7771 | 9.916 | 10.072 | 0.10111 | 9.1231 | 9.435 | 9.7576 | 0.24656 | -0.852 | -0.48096 | -0.0258 | 0.30766 |
| 50 | 9.7516 | 9.9135 | 10.026 | 0.092911 | 8.9767 | 9.4003 | 9.7787 | 0.33547 | -0.8879 | -0.5132 | -0.2343 | 0.29434 |

# Device Test: 15.116 VOL_EN_10MA(_EVEL|VOL/EN1/7/3/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

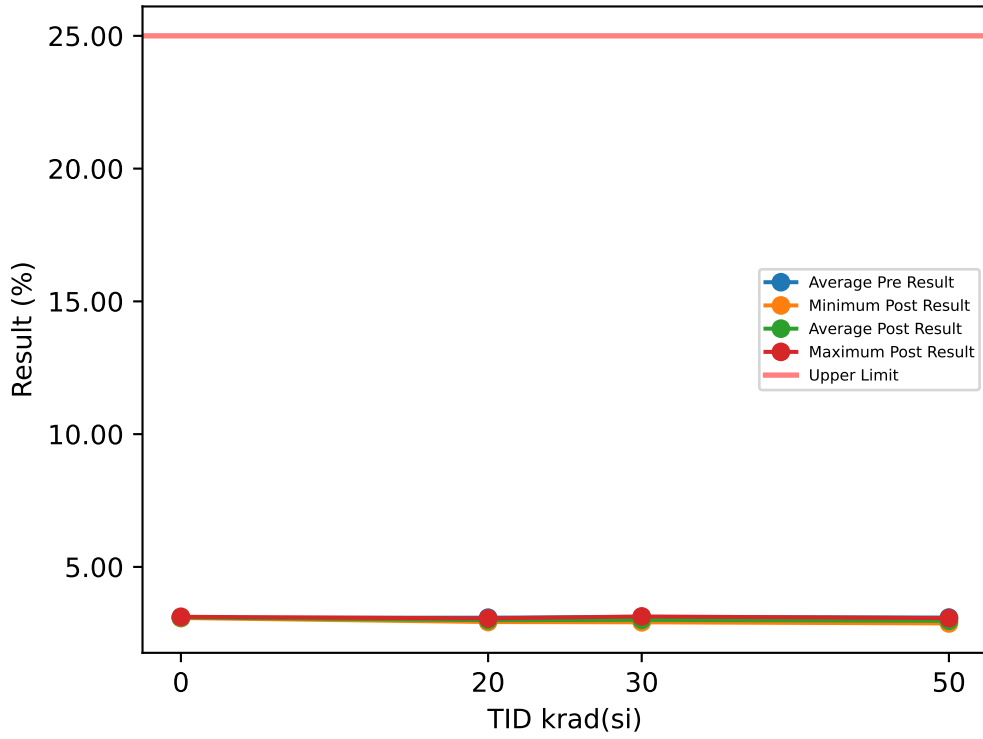| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.0782 | 2.9326 | -0.1456 |
| 2 | 20 | Bias | 3.0869 | 2.9451 | -0.1418 |
| 3 | 20 | Bias | 3.1224 | 2.9821 | -0.1403 |
| 4 | 20 | Bias | 3.0606 | 2.9238 | -0.1368 |
| 5 | 20 | Bias | 3.0888 | 2.9542 | -0.1346 |
| 6 | 20 | Unbiased | 3.1192 | 3.0613 | -0.0579 |
| 7 | 20 | Unbiased | 3.1029 | 3.0555 | -0.0474 |
| 8 | 20 | Unbiased | 3.0338 | 2.9852 | -0.0486 |
| 9 | 20 | Unbiased | 3.0896 | 3.0422 | -0.0474 |
| 10 | 20 | Unbiased | 3.106 | 3.0601 | -0.0459 |
| 11 | 30 | Bias | 3.144 | 2.9396 | -0.2044 |
| 12 | 30 | Bias | 3.1424 | 2.969 | -0.1734 |
| 13 | 30 | Bias | 3.122 | 2.974 | -0.148 |
| 14 | 30 | Bias | 3.0854 | 2.9504 | -0.135 |
| 15 | 30 | Bias | 3.1926 | 2.9138 | -0.2788 |
| 16 | 30 | Unbiased | 3.084 | 3.1351 | 0.0511 |
| 17 | 30 | Unbiased | 3.0637 | 3.0285 | -0.0352 |
| 18 | 30 | Unbiased | 3.0856 | 3.0136 | -0.072 |
| 19 | 30 | Unbiased | 3.1556 | 3.0353 | -0.1203 |
| 20 | 30 | Unbiased | 3.0624 | 3.104 | 0.0416 |
| 21 | 50 | Bias | 3.0939 | 2.8855 | -0.2084 |
| 22 | 50 | Bias | 3.0999 | 2.9086 | -0.1913 |
| 23 | 50 | Bias | 3.1021 | 2.9177 | -0.1844 |
| 24 | 50 | Bias | 3.0884 | 2.9181 | -0.1703 |
| 25 | 50 | Bias | 3.0601 | 2.8708 | -0.1893 |
| 26 | 50 | Unbiased | 3.0696 | 3.0141 | -0.0555 |
| 27 | 50 | Unbiased | 3.0716 | 3.015 | -0.0566 |
| 28 | 50 | Unbiased | 3.1275 | 3.0663 | -0.0612 |
| 29 | 50 | Unbiased | 3.1307 | 3.0698 | -0.0609 |
| 30 | 50 | Unbiased | 3.0894 | 3.03 | -0.0594 |
| 31 | 0 | Correlation | 3.1202 | 3.1222 | 0.002 |
| 32 | 0 | Correlation | 3.0726 | 3.0753 | 0.0027 |
| 33 | 0 | Correlation | 3.0832 | 3.0855 | 0.0023 |
| 34 | 0 | Correlation | 3.0468 | 3.1084 | 0.0616 |

## Test Statistics (%)
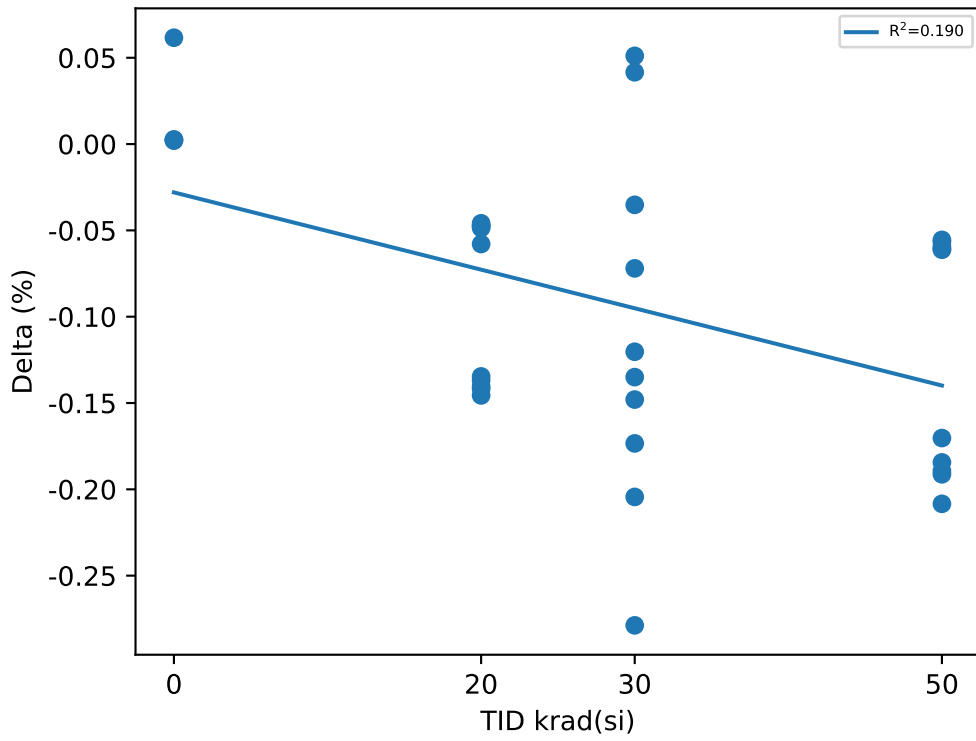
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0468 | 3.0807 | 3.1202 | 0.030448 | 3.0753 | 3.0979 | 3.1222 | 0.021333 | 0.002 | 0.01715 | 0.0616 | 0.029635 |
| 20 | 3.0338 | 3.0888 | 3.1224 | 0.026842 | 2.9238 | 2.9942 | 3.0613 | 0.055674 | -0.1456 | -0.09463 | -0.0459 | 0.047829 |
| 30 | 3.0624 | 3.1138 | 3.1926 | 0.043964 | 2.9138 | 3.0063 | 3.1351 | 0.071559 | -0.2788 | -0.10744 | 0.0511 | 0.10515 |
| 50 | 3.0601 | 3.0933 | 3.1307 | 0.023247 | 2.8708 | 2.9696 | 3.0698 | 0.076726 | -0.2084 | -0.12373 | -0.0555 | 0.069155 |

# Device Test: 15.117 VOL_EN_10MA(_EVEL|VOL/EN2/7/3/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

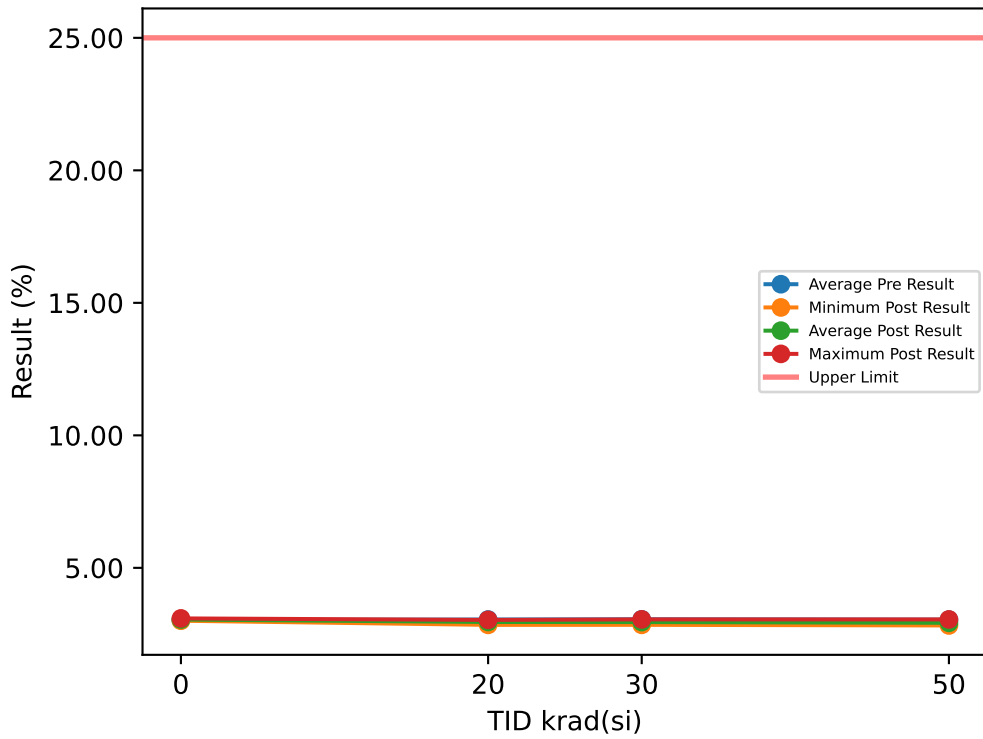| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.0703 | 2.9231 | -0.1472 |
| 2 | 20 | Bias | 3.0754 | 2.9313 | -0.1441 |
| 3 | 20 | Bias | 3.115 | 2.9746 | -0.1404 |
| 4 | 20 | Bias | 2.98 | 2.8484 | -0.1316 |
| 5 | 20 | Bias | 3.0321 | 2.9024 | -0.1297 |
| 6 | 20 | Unbiased | 3.0778 | 3.0212 | -0.0566 |
| 7 | 20 | Unbiased | 3.0678 | 3.0207 | -0.0471 |
| 8 | 20 | Unbiased | 3.0856 | 3.0354 | -0.0502 |
| 9 | 20 | Unbiased | 3.0105 | 2.965 | -0.0455 |
| 10 | 20 | Unbiased | 2.9949 | 2.9516 | -0.0433 |
| 11 | 30 | Bias | 3.1071 | 2.9225 | -0.1846 |
| 12 | 30 | Bias | 3.1326 | 2.9344 | -0.1982 |
| 13 | 30 | Bias | 3.1081 | 2.9641 | -0.144 |
| 14 | 30 | Bias | 3.0138 | 2.9352 | -0.0786 |
| 15 | 30 | Bias | 3.1101 | 2.8493 | -0.2608 |
| 16 | 30 | Unbiased | 3.0022 | 3.0549 | 0.0527 |
| 17 | 30 | Unbiased | 2.9952 | 2.9506 | -0.0446 |
| 18 | 30 | Unbiased | 3.0082 | 2.9469 | -0.0613 |
| 19 | 30 | Unbiased | 3.0678 | 2.9617 | -0.1061 |
| 20 | 30 | Unbiased | 3.0414 | 3.0197 | -0.0217 |
| 21 | 50 | Bias | 3.0493 | 2.8628 | -0.1865 |
| 22 | 50 | Bias | 3.0505 | 2.8658 | -0.1847 |
| 23 | 50 | Bias | 3.0055 | 2.8701 | -0.1354 |
| 24 | 50 | Bias | 3.0261 | 2.8323 | -0.1938 |
| 25 | 50 | Bias | 3.0141 | 2.8262 | -0.1879 |
| 26 | 50 | Unbiased | 3.0356 | 2.9794 | -0.0562 |
| 27 | 50 | Unbiased | 3.043 | 2.9835 | -0.0595 |
| 28 | 50 | Unbiased | 3.0254 | 2.9651 | -0.0603 |
| 29 | 50 | Unbiased | 3.1163 | 3.0535 | -0.0628 |
| 30 | 50 | Unbiased | 3.0786 | 3.019 | -0.0596 |
| 31 | 0 | Correlation | 3.025 | 3.0263 | 0.0013 |
| 32 | 0 | Correlation | 3.0027 | 3.0044 | 0.0017 |
| 33 | 0 | Correlation | 3.0711 | 3.0735 | 0.0024 |
| 34 | 0 | Correlation | 3.0189 | 3.0925 | 0.0736 |

## Test Statistics (%)
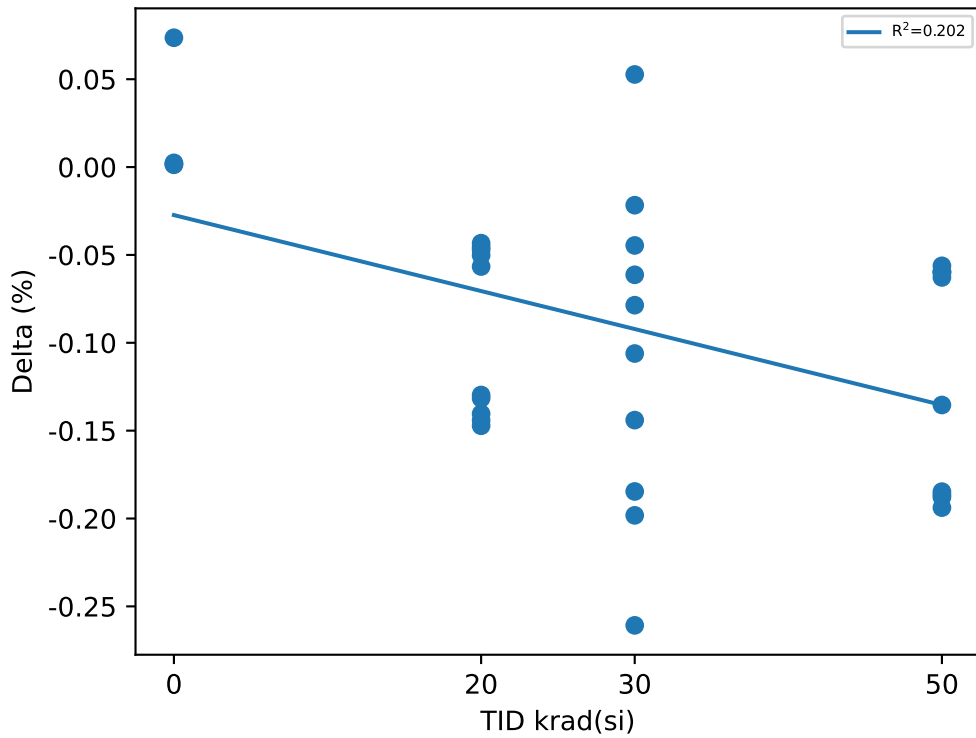
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0027 | 3.0294 | 3.0711 | 0.029334 | 3.0044 | 3.0492 | 3.0925 | 0.040812 | 0.0013 | 0.01975 | 0.0736 | 0.035903 |
| 20 | 2.98 | 3.0509 | 3.115 | 0.044029 | 2.8484 | 2.9574 | 3.0354 | 0.058984 | -0.1472 | -0.09357 | -0.0433 | 0.047865 |
| 30 | 2.9952 | 3.0587 | 3.1326 | 0.052767 | 2.8493 | 2.9539 | 3.0549 | 0.055189 | -0.2608 | -0.10472 | 0.0527 | 0.093619 |
| 50 | 3.0055 | 3.0444 | 3.1163 | 0.032672 | 2.8262 | 2.9258 | 3.0535 | 0.083049 | -0.1938 | -0.11867 | -0.0562 | 0.064204 |

# Device Test: 15.118 VOL_EN_10MA(_EVEL|VOL/EN3/7/3/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

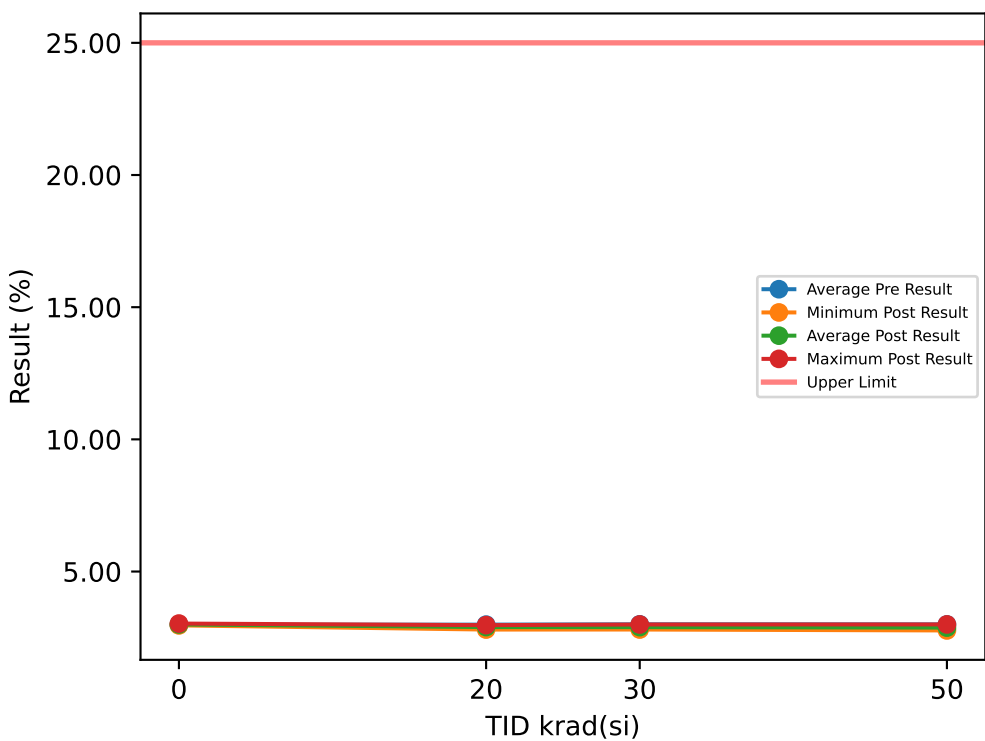| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.0107 | 2.8638 | -0.1469 |
| 2 | 20 | Bias | 3.0284 | 2.8852 | -0.1432 |
| 3 | 20 | Bias | 3.0503 | 2.9103 | -0.14 |
| 4 | 20 | Bias | 2.9345 | 2.8045 | -0.13 |
| 5 | 20 | Bias | 2.9694 | 2.8414 | -0.128 |
| 6 | 20 | Unbiased | 3.0068 | 2.9511 | -0.0557 |
| 7 | 20 | Unbiased | 2.9969 | 2.9508 | -0.0461 |
| 8 | 20 | Unbiased | 3.0221 | 2.972 | -0.0501 |
| 9 | 20 | Unbiased | 2.9565 | 2.9107 | -0.0458 |
| 10 | 20 | Unbiased | 2.9427 | 2.8989 | -0.0438 |
| 11 | 30 | Bias | 3.0596 | 2.8635 | -0.1961 |
| 12 | 30 | Bias | 3.0677 | 2.8863 | -0.1814 |
| 13 | 30 | Bias | 3.0399 | 2.8981 | -0.1418 |
| 14 | 30 | Bias | 2.9696 | 2.8679 | -0.1017 |
| 15 | 30 | Bias | 3.0511 | 2.806 | -0.2451 |
| 16 | 30 | Unbiased | 2.9476 | 2.9966 | 0.049 |
| 17 | 30 | Unbiased | 2.9405 | 2.8965 | -0.044 |
| 18 | 30 | Unbiased | 2.9485 | 2.8921 | -0.0564 |
| 19 | 30 | Unbiased | 3.0067 | 2.9024 | -0.1043 |
| 20 | 30 | Unbiased | 2.9994 | 2.9573 | -0.0421 |
| 21 | 50 | Bias | 3.0093 | 2.8191 | -0.1902 |
| 22 | 50 | Bias | 3.0108 | 2.8255 | -0.1853 |
| 23 | 50 | Bias | 2.9532 | 2.8278 | -0.1254 |
| 24 | 50 | Bias | 2.9954 | 2.7773 | -0.2181 |
| 25 | 50 | Bias | 2.9576 | 2.771 | -0.1866 |
| 26 | 50 | Unbiased | 2.9988 | 2.9413 | -0.0575 |
| 27 | 50 | Unbiased | 3.013 | 2.9521 | -0.0609 |
| 28 | 50 | Unbiased | 2.9815 | 2.9212 | -0.0603 |
| 29 | 50 | Unbiased | 3.0613 | 2.9988 | -0.0625 |
| 30 | 50 | Unbiased | 3.0136 | 2.9538 | -0.0598 |
| 31 | 0 | Correlation | 2.9726 | 2.973 | 0.0004 |
| 32 | 0 | Correlation | 2.9625 | 2.9624 | -0.0001 |
| 33 | 0 | Correlation | 3.0189 | 3.0201 | 0.0012 |
| 34 | 0 | Correlation | 2.9824 | 3.0323 | 0.0499 |

## Test Statistics (%)
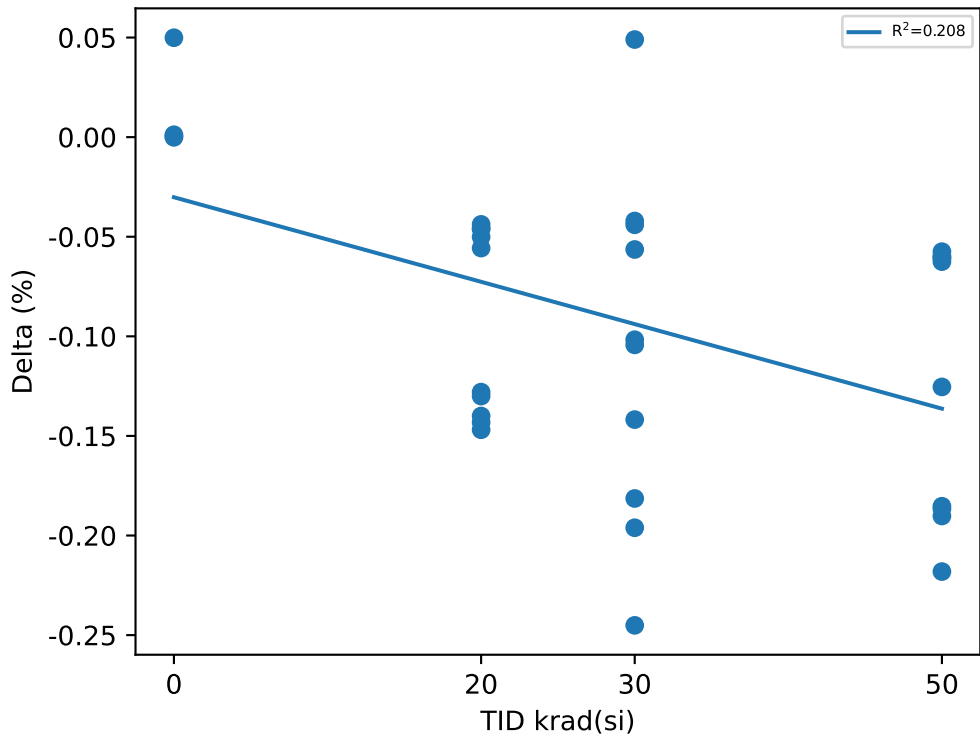
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.9625 | 2.9841 | 3.0189 | 0.024581 | 2.9624 | 2.997 | 3.0323 | 0.034413 | -0.0001 | 0.01285 | 0.0499 | 0.024706 |
| 20 | 2.9345 | 2.9918 | 3.0503 | 0.039058 | 2.8045 | 2.8989 | 2.972 | 0.052354 | -0.1469 | -0.09296 | -0.0438 | 0.047502 |
| 30 | 2.9405 | 3.0031 | 3.0677 | 0.049613 | 2.806 | 2.8967 | 2.9966 | 0.051612 | -0.2451 | -0.10639 | 0.049 | 0.087474 |
| 50 | 2.9532 | 2.9994 | 3.0613 | 0.031028 | 2.771 | 2.8788 | 2.9988 | 0.08302 | -0.2181 | -0.12066 | -0.0575 | 0.067634 |

# Device Test: 15.119 VOL_EN_10MA(_EVEL|VOL/EN4/7/3/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

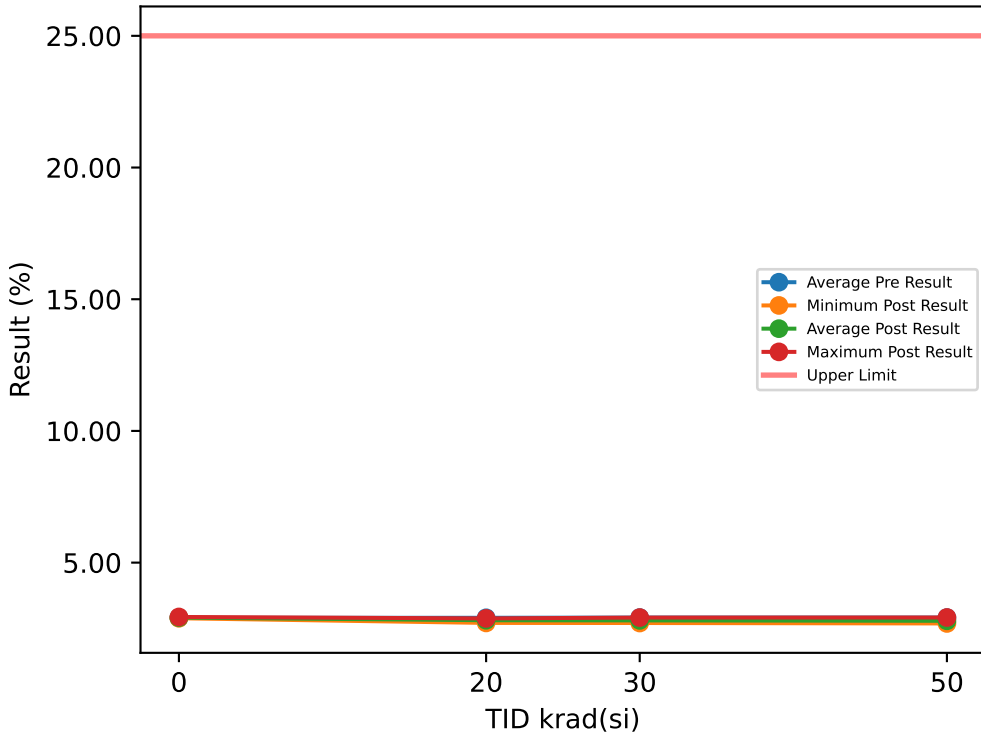| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.924 | 2.7785 | -0.1455 |
| 2 | 20 | Bias | 2.9345 | 2.7927 | -0.1418 |
| 3 | 20 | Bias | 2.9569 | 2.8167 | -0.1402 |
| 4 | 20 | Bias | 2.8396 | 2.7105 | -0.1291 |
| 5 | 20 | Bias | 2.8997 | 2.7711 | -0.1286 |
| 6 | 20 | Unbiased | 2.9369 | 2.8816 | -0.0553 |
| 7 | 20 | Unbiased | 2.9215 | 2.8747 | -0.0468 |
| 8 | 20 | Unbiased | 2.9217 | 2.8721 | -0.0496 |
| 9 | 20 | Unbiased | 2.865 | 2.8204 | -0.0446 |
| 10 | 20 | Unbiased | 2.8547 | 2.8121 | -0.0426 |
| 11 | 30 | Bias | 2.9715 | 2.7685 | -0.203 |
| 12 | 30 | Bias | 2.9818 | 2.7972 | -0.1846 |
| 13 | 30 | Bias | 2.9558 | 2.8124 | -0.1434 |
| 14 | 30 | Bias | 2.8688 | 2.7836 | -0.0852 |
| 15 | 30 | Bias | 2.9681 | 2.707 | -0.2611 |
| 16 | 30 | Unbiased | 2.8601 | 2.9136 | 0.0535 |
| 17 | 30 | Unbiased | 2.8414 | 2.8093 | -0.0321 |
| 18 | 30 | Unbiased | 2.8548 | 2.7929 | -0.0619 |
| 19 | 30 | Unbiased | 2.9247 | 2.8082 | -0.1165 |
| 20 | 30 | Unbiased | 2.9106 | 2.8754 | -0.0352 |
| 21 | 50 | Bias | 2.9239 | 2.7298 | -0.1941 |
| 22 | 50 | Bias | 2.921 | 2.739 | -0.182 |
| 23 | 50 | Bias | 2.8656 | 2.7361 | -0.1295 |
| 24 | 50 | Bias | 2.9106 | 2.6904 | -0.2202 |
| 25 | 50 | Bias | 2.893 | 2.7042 | -0.1888 |
| 26 | 50 | Unbiased | 2.9011 | 2.8445 | -0.0566 |
| 27 | 50 | Unbiased | 2.9085 | 2.848 | -0.0605 |
| 28 | 50 | Unbiased | 2.9026 | 2.8411 | -0.0615 |
| 29 | 50 | Unbiased | 2.9793 | 2.9167 | -0.0626 |
| 30 | 50 | Unbiased | 2.9226 | 2.8611 | -0.0615 |
| 31 | 0 | Correlation | 2.8881 | 2.8881 | 0 |
| 32 | 0 | Correlation | 2.8878 | 2.8874 | -0.0004 |
| 33 | 0 | Correlation | 2.9372 | 2.9373 | 0.0001 |
| 34 | 0 | Correlation | 2.9016 | 2.9369 | 0.0353 |

## Test Statistics (%)
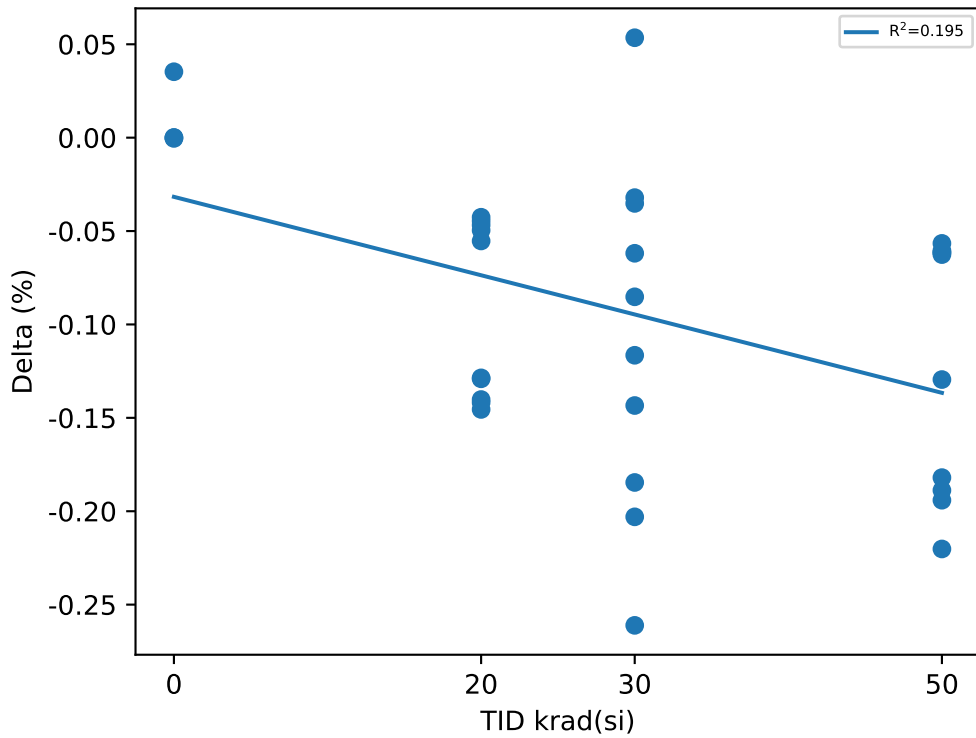
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.8878 | 2.9037 | 2.9372 | 0.023258 | 2.8874 | 2.9124 | 2.9373 | 0.028494 | -0.0004 | 0.00875 | 0.0353 | 0.017701 |
| 20 | 2.8396 | 2.9055 | 2.9569 | 0.039337 | 2.7105 | 2.813 | 2.8816 | 0.053685 | -0.1455 | -0.09241 | -0.0426 | 0.04744 |
| 30 | 2.8414 | 2.9138 | 2.9818 | 0.054187 | 2.707 | 2.8068 | 2.9136 | 0.056177 | -0.2611 | -0.10695 | 0.0535 | 0.093947 |
| 50 | 2.8656 | 2.9128 | 2.9793 | 0.029046 | 2.6904 | 2.7911 | 2.9167 | 0.0792 | -0.2202 | -0.12173 | -0.0566 | 0.068205 |

# Device Test: 15.12 ILKG_UP_DOWN(_LEAKAGE|DOWN/DOWNb//3/0/0/0/@ILKG_UP_DOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

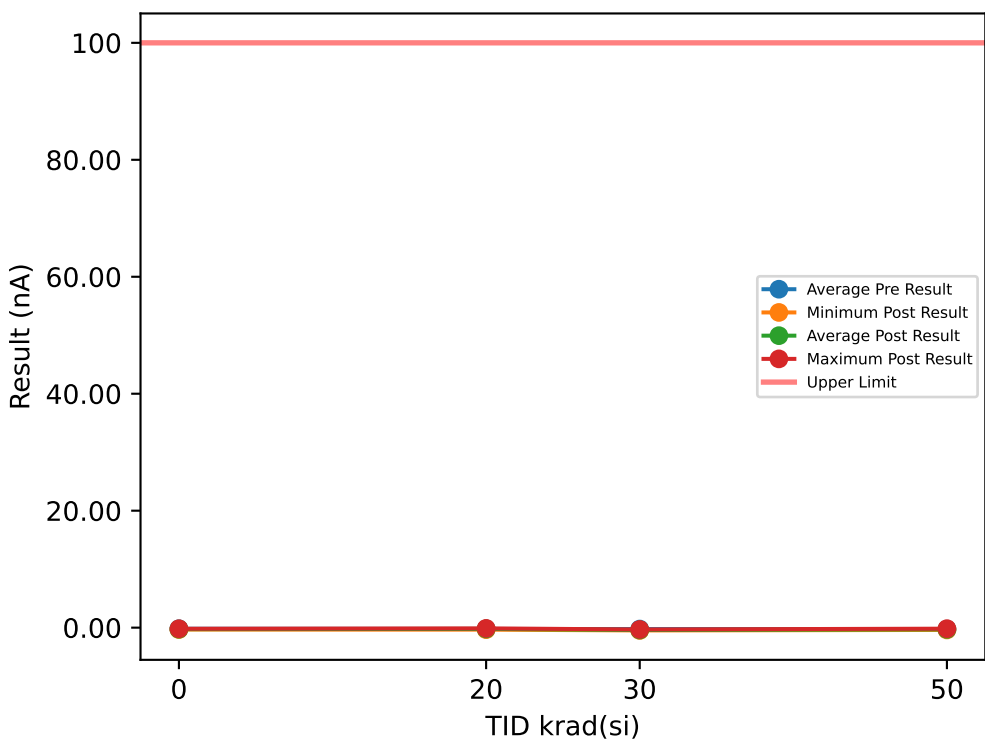| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | -0.4111 | -0.1426 | 0.2685 |
| 2 | 20 | Bias | -0.2581 | -0.1644 | 0.0937 |
| 3 | 20 | Bias | -0.0364 | -0.2893 | -0.2529 |
| 4 | 20 | Bias | -0.1519 | -0.2518 | -0.0999 |
| 5 | 20 | Bias | -0.23 | -0.3424 | -0.1124 |
| 6 | 20 | Unbiased | -0.102 | -0.1238 | -0.0218 |
| 7 | 20 | Unbiased | -0.1582 | -0.2737 | -0.1155 |
| 8 | 20 | Unbiased | -0.2612 | -0.1519 | 0.1093 |
| 9 | 20 | Unbiased | -0.2675 | -0.2924 | -0.0249 |
| 10 | 20 | Unbiased | -0.3486 | -0.1426 | 0.206 |
| 11 | 30 | Bias | -0.3205 | -0.3484 | -0.0279 |
| 12 | 30 | Bias | -0.1832 | -0.3577 | -0.1745 |
| 13 | 30 | Bias | -0.2706 | -0.3671 | -0.0965 |
| 14 | 30 | Bias | -0.2487 | -0.3109 | -0.0622 |
| 15 | 30 | Bias | -0.1551 | -0.314 | -0.1589 |
| 16 | 30 | Unbiased | -0.2737 | -0.4795 | -0.2058 |
| 17 | 30 | Unbiased | -0.1894 | -0.4577 | -0.2683 |
| 18 | 30 | Unbiased | -0.3174 | -0.4795 | -0.1621 |
| 19 | 30 | Unbiased | -0.2081 | -0.4483 | -0.2402 |
| 20 | 30 | Unbiased | -0.2237 | -0.4296 | -0.2059 |
| 21 | 50 | Bias | -0.1832 | -0.3702 | -0.187 |
| 22 | 50 | Bias | -0.2768 | -0.3921 | -0.1153 |
| 23 | 50 | Bias | -0.2799 | -0.3421 | -0.0622 |
| 24 | 50 | Bias | -0.2706 | -0.2734 | -0.0028 |
| 25 | 50 | Bias | -0.23 | -0.1925 | 0.0375 |
| 26 | 50 | Unbiased | -0.2987 | -0.1738 | 0.1249 |
| 27 | 50 | Unbiased | -0.2456 | -0.3237 | -0.0781 |
| 28 | 50 | Unbiased | -0.2862 | -0.3018 | -0.0156 |
| 29 | 50 | Unbiased | -0.2862 | -0.1988 | 0.0874 |
| 30 | 50 | Unbiased | -0.2893 | -0.3237 | -0.0344 |
| 31 | 0 | Correlation | -0.2706 | -0.1863 | 0.0843 |
| 32 | 0 | Correlation | -0.0895 | -0.2768 | -0.1873 |
| 33 | 0 | Correlation | -0.1644 | -0.3268 | -0.1624 |
| 34 | 0 | Correlation | -0.23 | -0.2362 | -0.0062 |

## Test Statistics (nA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | -0.2706 | -0.18862 | -0.0895 | 0.079256 | -0.3268 | -0.25653 | -0.1863 | 0.059706 | -0.1873 | -0.0679 | 0.0843 | 0.1293 |
| 20 | -0.4111 | -0.2225 | -0.0364 | 0.11284 | -0.3424 | -0.21749 | -0.1238 | 0.080155 | -0.2529 | 0.00501 | 0.2685 | 0.16194 |
| 30 | -0.3205 | -0.23904 | -0.1551 | 0.056654 | -0.4795 | -0.39927 | -0.3109 | 0.066702 | -0.2683 | -0.16023 | -0.0279 | 0.077193 |
| 50 | -0.2987 | -0.26465 | -0.1832 | 0.035448 | -0.3921 | -0.28921 | -0.1738 | 0.077156 | -0.187 | -0.02456 | 0.1249 | 0.093261 |

# Device Test: 15.120 VOL_SEQ_DONE_10MA(_EVEL|VOL/SEQ_DONE/7/3/0/0/10/@VOL_SEQ_DONE_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

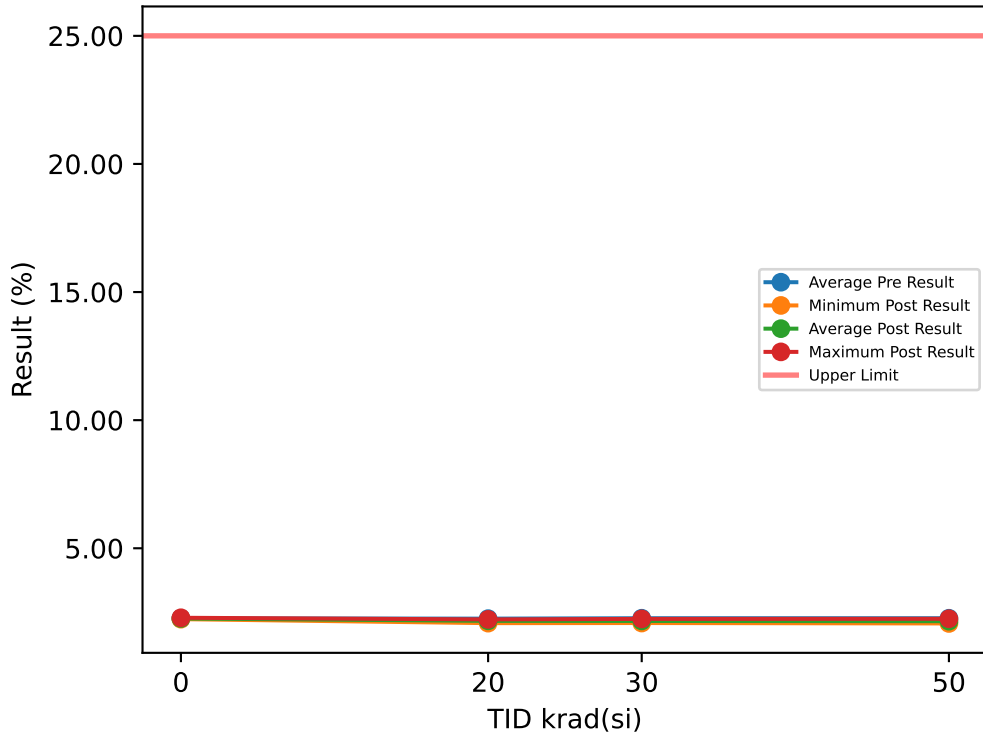| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.276 | 2.1371 | -0.1389 |
| 2 | 20 | Bias | 2.2829 | 2.1462 | -0.1367 |
| 3 | 20 | Bias | 2.3047 | 2.1724 | -0.1323 |
| 4 | 20 | Bias | 2.2026 | 2.0774 | -0.1252 |
| 5 | 20 | Bias | 2.2508 | 2.1304 | -0.1204 |
| 6 | 20 | Unbiased | 2.2713 | 2.2225 | -0.0488 |
| 7 | 20 | Unbiased | 2.2648 | 2.2233 | -0.0415 |
| 8 | 20 | Unbiased | 2.2583 | 2.214 | -0.0443 |
| 9 | 20 | Unbiased | 2.2156 | 2.1754 | -0.0402 |
| 10 | 20 | Unbiased | 2.2066 | 2.1675 | -0.0391 |
| 11 | 30 | Bias | 2.2916 | 2.114 | -0.1776 |
| 12 | 30 | Bias | 2.3175 | 2.1252 | -0.1923 |
| 13 | 30 | Bias | 2.2977 | 2.1544 | -0.1433 |
| 14 | 30 | Bias | 2.2388 | 2.1333 | -0.1055 |
| 15 | 30 | Bias | 2.2942 | 2.0817 | -0.2125 |
| 16 | 30 | Unbiased | 2.2168 | 2.2427 | 0.0259 |
| 17 | 30 | Unbiased | 2.2246 | 2.1691 | -0.0555 |
| 18 | 30 | Unbiased | 2.259 | 2.1776 | -0.0814 |
| 19 | 30 | Unbiased | 2.2641 | 2.2136 | -0.0505 |
| 20 | 30 | Unbiased | 2.2886 | 2.2175 | -0.0711 |
| 21 | 50 | Bias | 2.2894 | 2.1083 | -0.1811 |
| 22 | 50 | Bias | 2.2795 | 2.1054 | -0.1741 |
| 23 | 50 | Bias | 2.2414 | 2.0987 | -0.1427 |
| 24 | 50 | Bias | 2.2517 | 2.0684 | -0.1833 |
| 25 | 50 | Bias | 2.2506 | 2.0653 | -0.1853 |
| 26 | 50 | Unbiased | 2.2534 | 2.1988 | -0.0546 |
| 27 | 50 | Unbiased | 2.2759 | 2.2175 | -0.0584 |
| 28 | 50 | Unbiased | 2.254 | 2.1967 | -0.0573 |
| 29 | 50 | Unbiased | 2.308 | 2.2478 | -0.0602 |
| 30 | 50 | Unbiased | 2.2844 | 2.228 | -0.0564 |
| 31 | 0 | Correlation | 2.2427 | 2.244 | 0.0013 |
| 32 | 0 | Correlation | 2.2314 | 2.2327 | 0.0013 |
| 33 | 0 | Correlation | 2.2864 | 2.2873 | 0.0009 |
| 34 | 0 | Correlation | 2.2887 | 2.2738 | -0.0149 |

## Test Statistics (%)
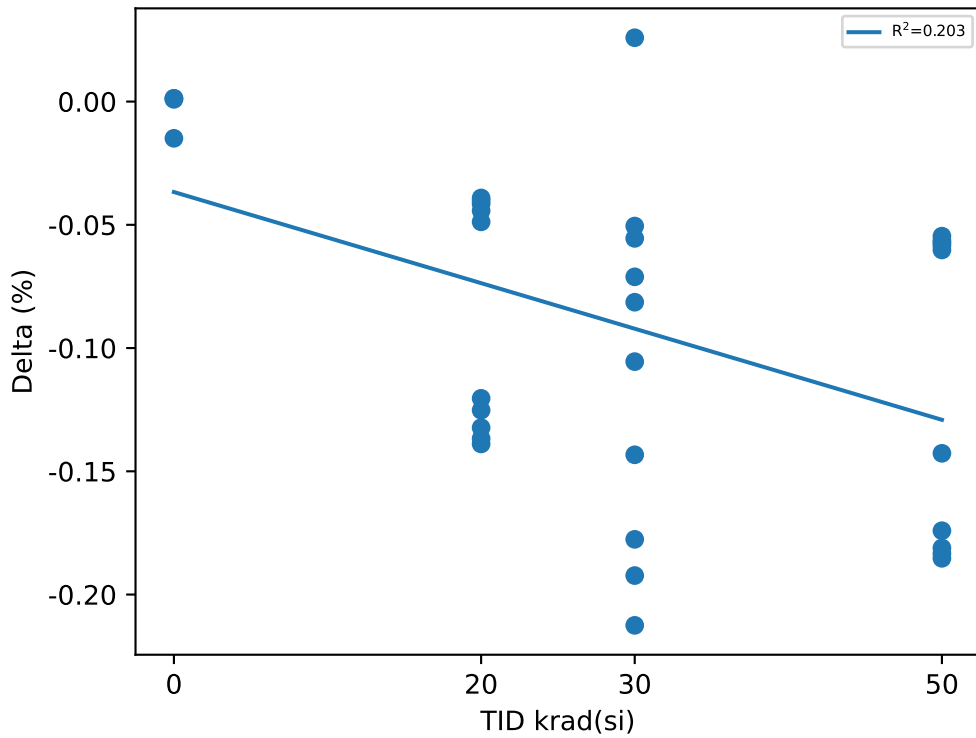
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.2314 | 2.2623 | 2.2887 | 0.029534 | 2.2327 | 2.2595 | 2.2873 | 0.025402 | -0.0149 | -0.00285 | 0.0013 | 0.0080355 |
| 20 | 2.2026 | 2.2534 | 2.3047 | 0.03447 | 2.0774 | 2.1666 | 2.2233 | 0.04625 | -0.1389 | -0.08674 | -0.0391 | 0.046699 |
| 30 | 2.2168 | 2.2693 | 2.3175 | 0.034054 | 2.0817 | 2.1629 | 2.2427 | 0.05113 | -0.2125 | -0.10638 | 0.0259 | 0.074653 |
| 50 | 2.2414 | 2.2688 | 2.308 | 0.021602 | 2.0653 | 2.1535 | 2.2478 | 0.070583 | -0.1853 | -0.11534 | -0.0546 | 0.06223 |

# Device Test: 15.121 VOL_PWRGD_10MA(_EVEL|VOL/PWRGD/7/3/0/0/10/@VOL_PWRGD_10MA )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Upper Limit

## TID vs Post - Pre Exposure Delta



R²=0.196

## Test Results (Upper Limit = 25.0 (%))

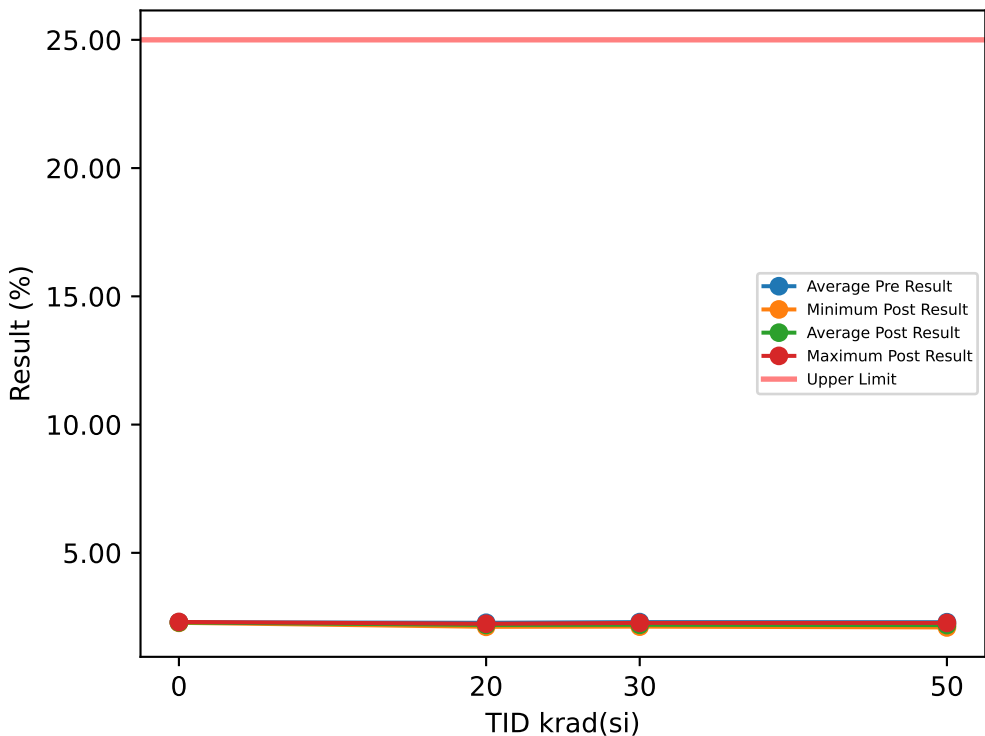| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.2918 | 2.1555 | -0.1363 |
| 2 | 20 | Bias | 2.2988 | 2.1648 | -0.134 |
| 3 | 20 | Bias | 2.338 | 2.2075 | -0.1305 |
| 4 | 20 | Bias | 2.2407 | 2.1154 | -0.1253 |
| 5 | 20 | Bias | 2.2528 | 2.1363 | -0.1165 |
| 6 | 20 | Unbiased | 2.2826 | 2.235 | -0.0476 |
| 7 | 20 | Unbiased | 2.2681 | 2.2282 | -0.0399 |
| 8 | 20 | Unbiased | 2.2677 | 2.2255 | -0.0422 |
| 9 | 20 | Unbiased | 2.2451 | 2.2057 | -0.0394 |
| 10 | 20 | Unbiased | 2.25 | 2.2117 | -0.0383 |
| 11 | 30 | Bias | 2.3218 | 2.1342 | -0.1876 |
| 12 | 30 | Bias | 2.3348 | 2.1593 | -0.1755 |
| 13 | 30 | Bias | 2.3045 | 2.1768 | -0.1277 |
| 14 | 30 | Bias | 2.2786 | 2.1459 | -0.1327 |
| 15 | 30 | Bias | 2.3164 | 2.1228 | -0.1936 |
| 16 | 30 | Unbiased | 2.2638 | 2.2676 | 0.0038 |
| 17 | 30 | Unbiased | 2.2676 | 2.2174 | -0.0502 |
| 18 | 30 | Unbiased | 2.2955 | 2.2233 | -0.0722 |
| 19 | 30 | Unbiased | 2.284 | 2.2531 | -0.0309 |
| 20 | 30 | Unbiased | 2.3279 | 2.2408 | -0.0871 |
| 21 | 50 | Bias | 2.313 | 2.1512 | -0.1618 |
| 22 | 50 | Bias | 2.2983 | 2.1335 | -0.1648 |
| 23 | 50 | Bias | 2.2582 | 2.121 | -0.1372 |
| 24 | 50 | Bias | 2.2847 | 2.0909 | -0.1938 |
| 25 | 50 | Bias | 2.2827 | 2.098 | -0.1847 |
| 26 | 50 | Unbiased | 2.3206 | 2.2665 | -0.0541 |
| 27 | 50 | Unbiased | 2.3014 | 2.2451 | -0.0563 |
| 28 | 50 | Unbiased | 2.2634 | 2.2077 | -0.0557 |
| 29 | 50 | Unbiased | 2.3253 | 2.2677 | -0.0576 |
| 30 | 50 | Unbiased | 2.3021 | 2.2459 | -0.0562 |
| 31 | 0 | Correlation | 2.2683 | 2.2709 | 0.0026 |
| 32 | 0 | Correlation | 2.2743 | 2.2764 | 0.0021 |
| 33 | 0 | Correlation | 2.3047 | 2.3058 | 0.0011 |
| 34 | 0 | Correlation | 2.3245 | 2.2905 | -0.034 |

## Test Statistics (%)
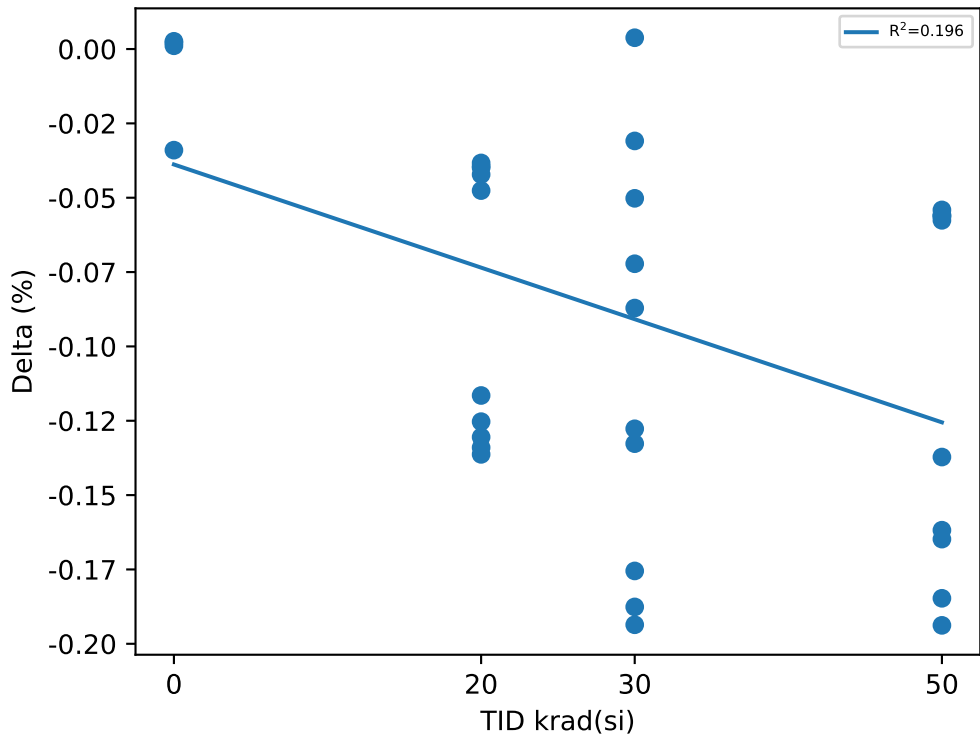
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.2683 | 2.293 | 2.3245 | 0.026388 | 2.2709 | 2.2859 | 2.3058 | 0.015625 | -0.034 | -0.00705 | 0.0026 | 0.017977 |
| 20 | 2.2407 | 2.2736 | 2.338 | 0.030081 | 2.1154 | 2.1886 | 2.235 | 0.042192 | -0.1363 | -0.085 | -0.0383 | 0.046241 |
| 30 | 2.2638 | 2.2995 | 2.3348 | 0.025486 | 2.1228 | 2.1941 | 2.2676 | 0.052668 | -0.1936 | -0.10537 | 0.0038 | 0.068841 |
| 50 | 2.2582 | 2.295 | 2.3253 | 0.022632 | 2.0909 | 2.1827 | 2.2677 | 0.071166 | -0.1938 | -0.11222 | -0.0541 | 0.06108 |

# Device Test: 15.122 VOL_EN_10MA(_EVEL|VOL/EN1/7/14/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

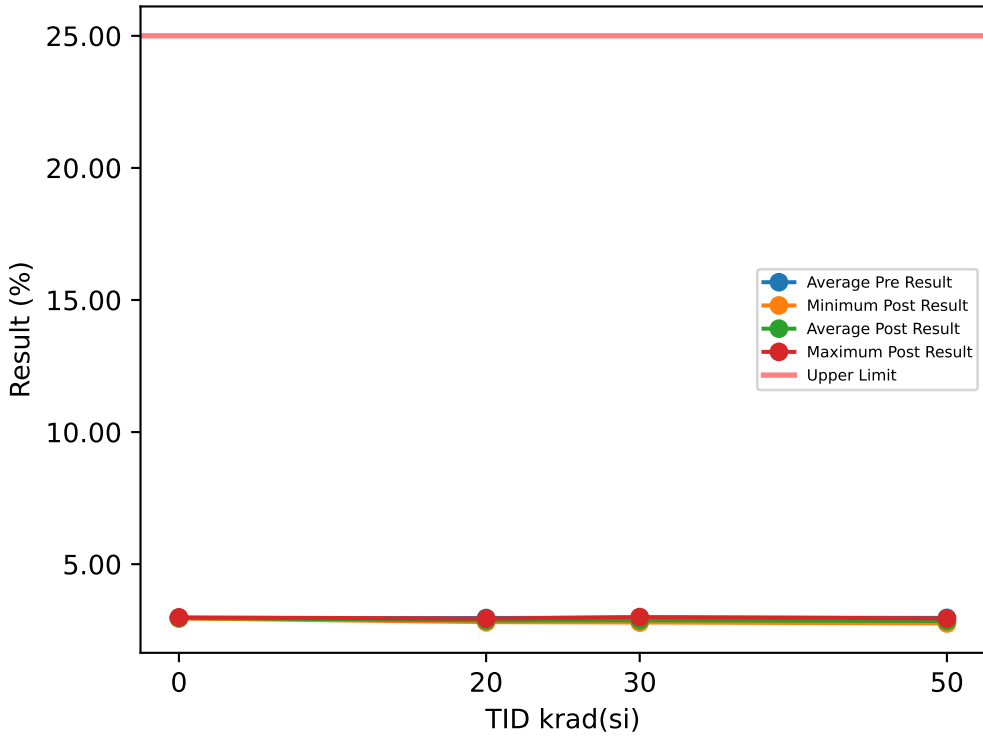| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.9556 | 2.8145 | -0.1411 |
| 2 | 20 | Bias | 2.9613 | 2.8241 | -0.1372 |
| 3 | 20 | Bias | 2.9925 | 2.8552 | -0.1373 |
| 4 | 20 | Bias | 2.937 | 2.8053 | -0.1317 |
| 5 | 20 | Bias | 2.9607 | 2.8315 | -0.1292 |
| 6 | 20 | Unbiased | 2.9865 | 2.9311 | -0.0554 |
| 7 | 20 | Unbiased | 2.9786 | 2.9338 | -0.0448 |
| 8 | 20 | Unbiased | 2.9083 | 2.8626 | -0.0457 |
| 9 | 20 | Unbiased | 2.9574 | 2.9139 | -0.0435 |
| 10 | 20 | Unbiased | 2.9829 | 2.9405 | -0.0424 |
| 11 | 30 | Bias | 3.01 | 2.8151 | -0.1949 |
| 12 | 30 | Bias | 3.0086 | 2.8404 | -0.1682 |
| 13 | 30 | Bias | 2.9915 | 2.8449 | -0.1466 |
| 14 | 30 | Bias | 2.959 | 2.8242 | -0.1348 |
| 15 | 30 | Bias | 3.0504 | 2.7926 | -0.2578 |
| 16 | 30 | Unbiased | 2.9627 | 2.9972 | 0.0345 |
| 17 | 30 | Unbiased | 2.9316 | 2.9118 | -0.0198 |
| 18 | 30 | Unbiased | 2.9555 | 2.8856 | -0.0699 |
| 19 | 30 | Unbiased | 3.0248 | 2.9083 | -0.1165 |
| 20 | 30 | Unbiased | 2.9329 | 2.9794 | 0.0465 |
| 21 | 50 | Bias | 2.9569 | 2.7617 | -0.1952 |
| 22 | 50 | Bias | 2.9741 | 2.779 | -0.1951 |
| 23 | 50 | Bias | 2.9742 | 2.797 | -0.1772 |
| 24 | 50 | Bias | 2.9639 | 2.7956 | -0.1683 |
| 25 | 50 | Bias | 2.9395 | 2.7566 | -0.1829 |
| 26 | 50 | Unbiased | 2.941 | 2.891 | -0.05 |
| 27 | 50 | Unbiased | 2.9511 | 2.9002 | -0.0509 |
| 28 | 50 | Unbiased | 2.9979 | 2.9433 | -0.0546 |
| 29 | 50 | Unbiased | 3 | 2.9473 | -0.0527 |
| 30 | 50 | Unbiased | 2.9697 | 2.9149 | -0.0548 |
| 31 | 0 | Correlation | 2.9858 | 2.9872 | 0.0014 |
| 32 | 0 | Correlation | 2.9438 | 2.9453 | 0.0015 |
| 33 | 0 | Correlation | 2.9564 | 2.9578 | 0.0014 |
| 34 | 0 | Correlation | 2.9186 | 2.9794 | 0.0608 |

## Test Statistics (%)
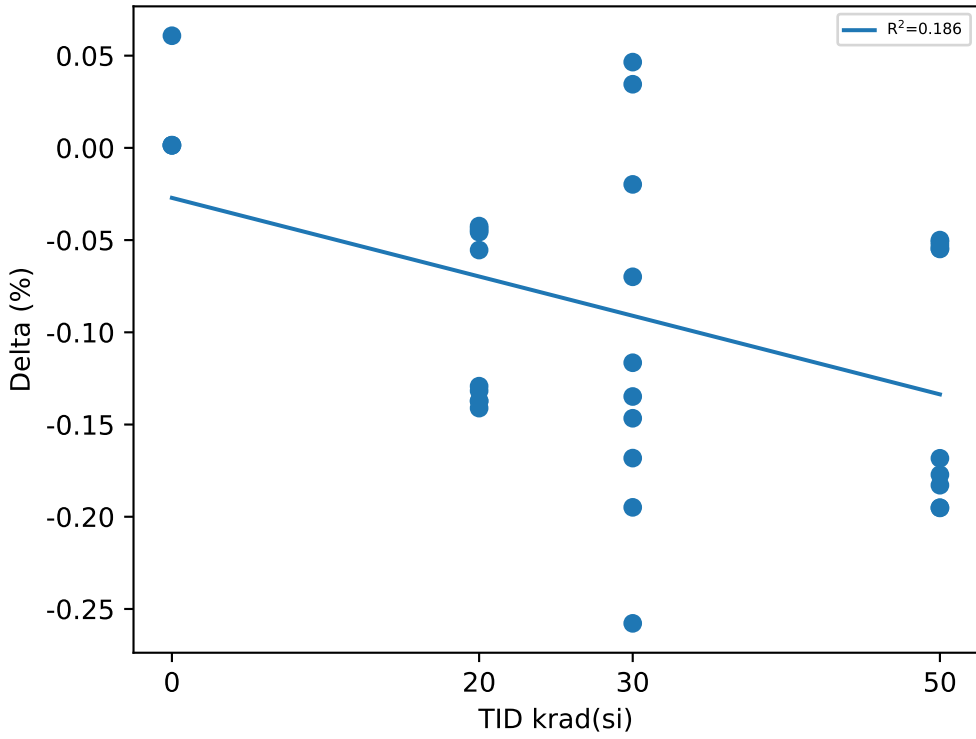
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.9186 | 2.9512 | 2.9858 | 0.027939 | 2.9453 | 2.9674 | 2.9872 | 0.019293 | 0.0014 | 0.016275 | 0.0608 | 0.029683 |
| 20 | 2.9083 | 2.9621 | 2.9925 | 0.02542 | 2.8053 | 2.8712 | 2.9405 | 0.053556 | -0.1411 | -0.09083 | -0.0424 | 0.047112 |
| 30 | 2.9316 | 2.9827 | 3.0504 | 0.040335 | 2.7926 | 2.88 | 2.9972 | 0.069301 | -0.2578 | -0.10275 | 0.0465 | 0.099458 |
| 50 | 2.9395 | 2.9668 | 3 | 0.020949 | 2.7566 | 2.8487 | 2.9473 | 0.077386 | -0.1952 | -0.11817 | -0.05 | 0.069566 |

# Device Test: 15.123 VOL_EN_10MA(_EVEL|VOL/EN2/7/14/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

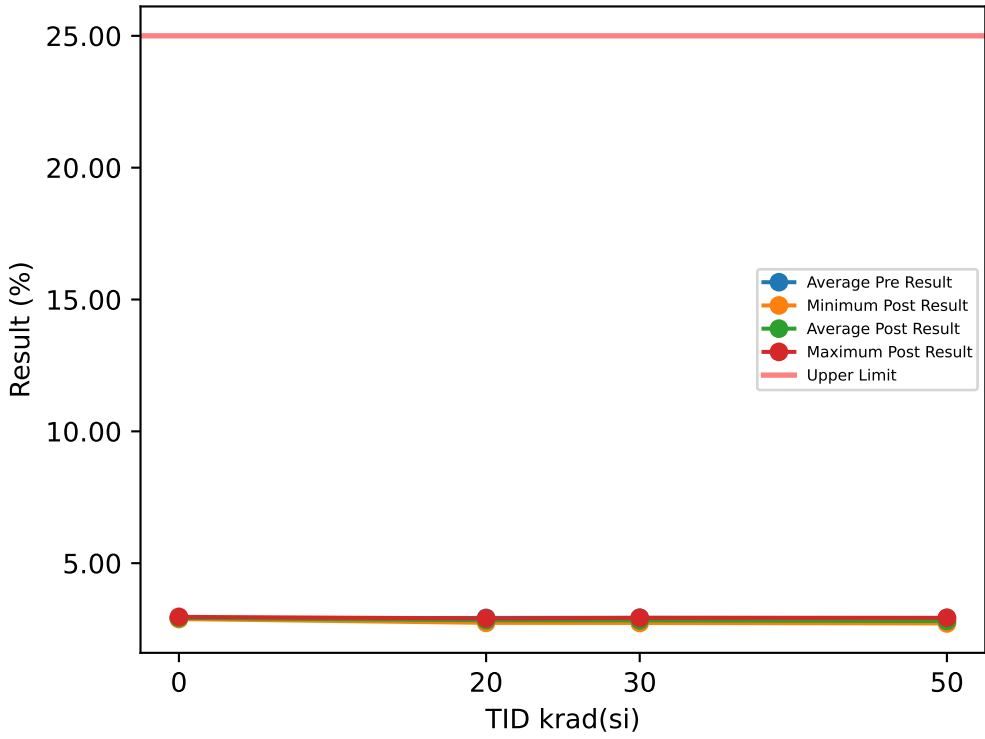| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.9451 | 2.8022 | -0.1429 |
| 2 | 20 | Bias | 2.9481 | 2.8084 | -0.1397 |
| 3 | 20 | Bias | 2.9802 | 2.8427 | -0.1375 |
| 4 | 20 | Bias | 2.8631 | 2.7365 | -0.1266 |
| 5 | 20 | Bias | 2.9061 | 2.7817 | -0.1244 |
| 6 | 20 | Unbiased | 2.9444 | 2.8906 | -0.0538 |
| 7 | 20 | Unbiased | 2.9436 | 2.8988 | -0.0448 |
| 8 | 20 | Unbiased | 2.9538 | 2.9058 | -0.048 |
| 9 | 20 | Unbiased | 2.8833 | 2.8419 | -0.0414 |
| 10 | 20 | Unbiased | 2.879 | 2.8392 | -0.0398 |
| 11 | 30 | Bias | 2.9731 | 2.7982 | -0.1749 |
| 12 | 30 | Bias | 2.9966 | 2.8061 | -0.1905 |
| 13 | 30 | Bias | 2.9772 | 2.832 | -0.1452 |
| 14 | 30 | Bias | 2.8924 | 2.8081 | -0.0843 |
| 15 | 30 | Bias | 2.9764 | 2.7324 | -0.244 |
| 16 | 30 | Unbiased | 2.8841 | 2.9251 | 0.041 |
| 17 | 30 | Unbiased | 2.8688 | 2.8374 | -0.0314 |
| 18 | 30 | Unbiased | 2.8826 | 2.8242 | -0.0584 |
| 19 | 30 | Unbiased | 2.9442 | 2.8388 | -0.1054 |
| 20 | 30 | Unbiased | 2.913 | 2.9014 | -0.0116 |
| 21 | 50 | Bias | 2.9141 | 2.7392 | -0.1749 |
| 22 | 50 | Bias | 2.9292 | 2.7392 | -0.19 |
| 23 | 50 | Bias | 2.8836 | 2.7529 | -0.1307 |
| 24 | 50 | Bias | 2.9058 | 2.7163 | -0.1895 |
| 25 | 50 | Bias | 2.8966 | 2.714 | -0.1826 |
| 26 | 50 | Unbiased | 2.9083 | 2.8577 | -0.0506 |
| 27 | 50 | Unbiased | 2.924 | 2.8704 | -0.0536 |
| 28 | 50 | Unbiased | 2.9056 | 2.8511 | -0.0545 |
| 29 | 50 | Unbiased | 2.9827 | 2.9285 | -0.0542 |
| 30 | 50 | Unbiased | 2.9556 | 2.9004 | -0.0552 |
| 31 | 0 | Correlation | 2.9005 | 2.9013 | 0.0008 |
| 32 | 0 | Correlation | 2.8793 | 2.88 | 0.0007 |
| 33 | 0 | Correlation | 2.9449 | 2.9461 | 0.0012 |
| 34 | 0 | Correlation | 2.8897 | 2.964 | 0.0743 |

## Test Statistics (%)
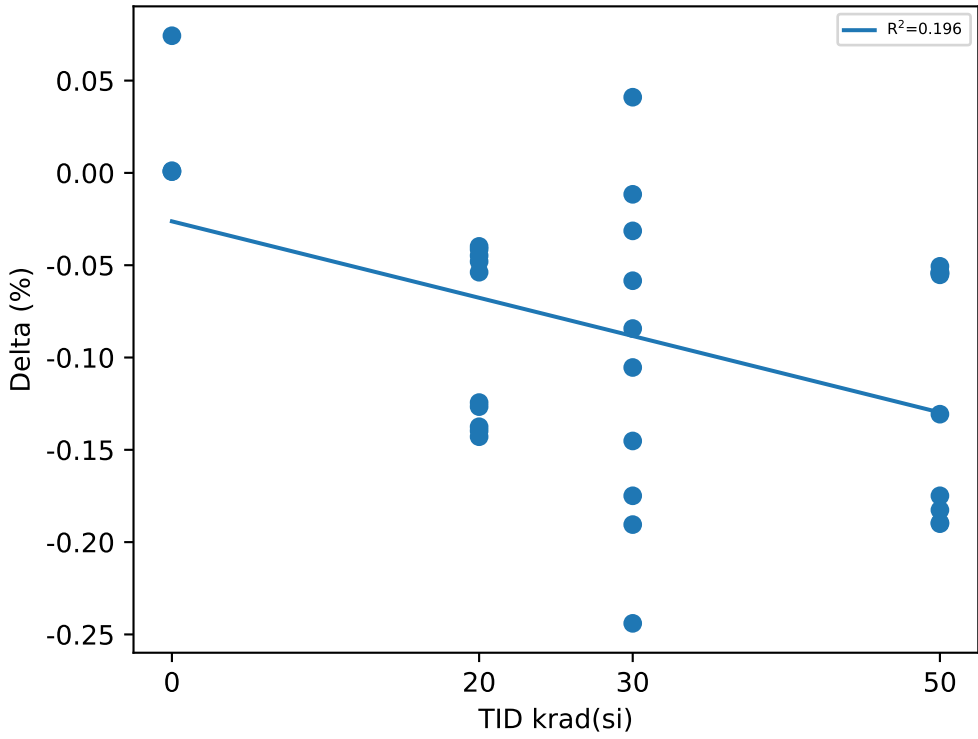
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.8793 | 2.9036 | 2.9449 | 0.028862 | 2.88 | 2.9228 | 2.964 | 0.038878 | 0.0007 | 0.01925 | 0.0743 | 0.036701 |
| 20 | 2.8631 | 2.9247 | 2.9802 | 0.038843 | 2.7365 | 2.8348 | 2.9058 | 0.054391 | -0.1429 | -0.08989 | -0.0398 | 0.047196 |
| 30 | 2.8688 | 2.9308 | 2.9966 | 0.047924 | 2.7324 | 2.8304 | 2.9251 | 0.053643 | -0.244 | -0.10047 | 0.041 | 0.08881 |
| 50 | 2.8836 | 2.9205 | 2.9827 | 0.029344 | 2.714 | 2.807 | 2.9285 | 0.082338 | -0.19 | -0.11358 | -0.0506 | 0.065328 |

# Device Test: 15.124 VOL_EN_10MA(_EVEL|VOL/EN3/7/14/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

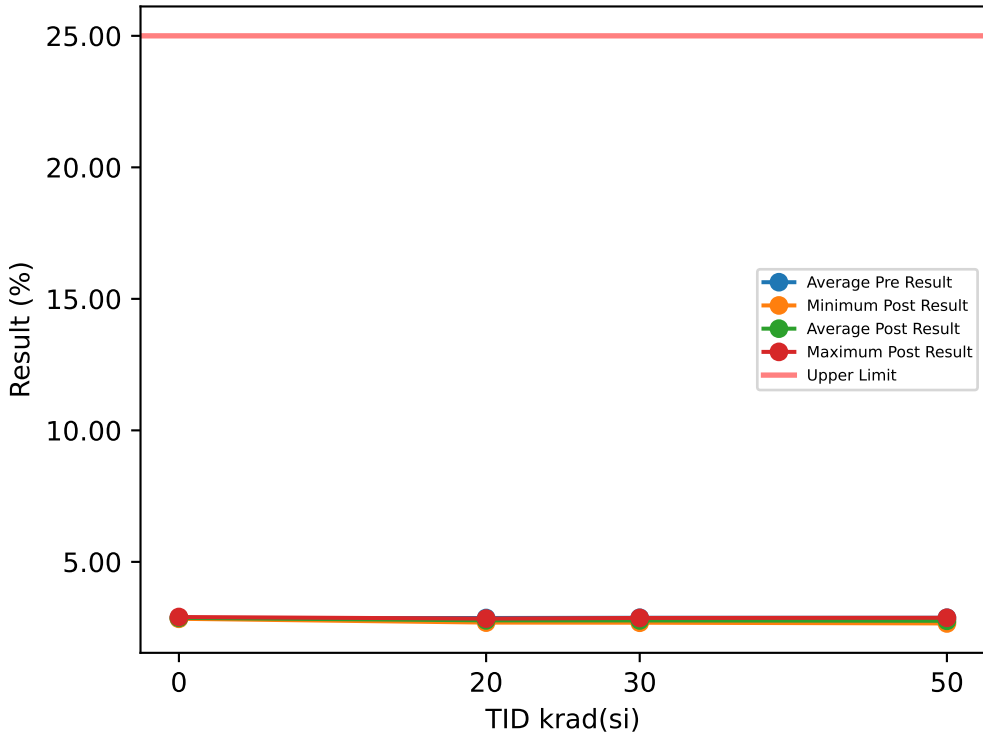| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.8872 | 2.7437 | -0.1435 |
| 2 | 20 | Bias | 2.9011 | 2.7619 | -0.1392 |
| 3 | 20 | Bias | 2.9175 | 2.7795 | -0.138 |
| 4 | 20 | Bias | 2.8168 | 2.6909 | -0.1259 |
| 5 | 20 | Bias | 2.8449 | 2.7219 | -0.123 |
| 6 | 20 | Unbiased | 2.8768 | 2.8228 | -0.054 |
| 7 | 20 | Unbiased | 2.8753 | 2.8307 | -0.0446 |
| 8 | 20 | Unbiased | 2.891 | 2.8436 | -0.0474 |
| 9 | 20 | Unbiased | 2.8298 | 2.7881 | -0.0417 |
| 10 | 20 | Unbiased | 2.8261 | 2.7866 | -0.0395 |
| 11 | 30 | Bias | 2.9236 | 2.74 | -0.1836 |
| 12 | 30 | Bias | 2.9328 | 2.7567 | -0.1761 |
| 13 | 30 | Bias | 2.9121 | 2.7682 | -0.1439 |
| 14 | 30 | Bias | 2.8463 | 2.7438 | -0.1025 |
| 15 | 30 | Bias | 2.9181 | 2.6863 | -0.2318 |
| 16 | 30 | Unbiased | 2.8297 | 2.8677 | 0.038 |
| 17 | 30 | Unbiased | 2.8149 | 2.7829 | -0.032 |
| 18 | 30 | Unbiased | 2.8228 | 2.7701 | -0.0527 |
| 19 | 30 | Unbiased | 2.8839 | 2.7798 | -0.1041 |
| 20 | 30 | Unbiased | 2.8678 | 2.8411 | -0.0267 |
| 21 | 50 | Bias | 2.8727 | 2.6933 | -0.1794 |
| 22 | 50 | Bias | 2.8885 | 2.6969 | -0.1916 |
| 23 | 50 | Bias | 2.8319 | 2.71 | -0.1219 |
| 24 | 50 | Bias | 2.8732 | 2.6624 | -0.2108 |
| 25 | 50 | Bias | 2.8401 | 2.6588 | -0.1813 |
| 26 | 50 | Unbiased | 2.8691 | 2.818 | -0.0511 |
| 27 | 50 | Unbiased | 2.8927 | 2.8385 | -0.0542 |
| 28 | 50 | Unbiased | 2.8607 | 2.8063 | -0.0544 |
| 29 | 50 | Unbiased | 2.9291 | 2.8745 | -0.0546 |
| 30 | 50 | Unbiased | 2.8915 | 2.8368 | -0.0547 |
| 31 | 0 | Correlation | 2.8468 | 2.8474 | 0.0006 |
| 32 | 0 | Correlation | 2.8361 | 2.8359 | -0.0002 |
| 33 | 0 | Correlation | 2.8943 | 2.895 | 0.0007 |
| 34 | 0 | Correlation | 2.8522 | 2.9045 | 0.0523 |

## Test Statistics (%)
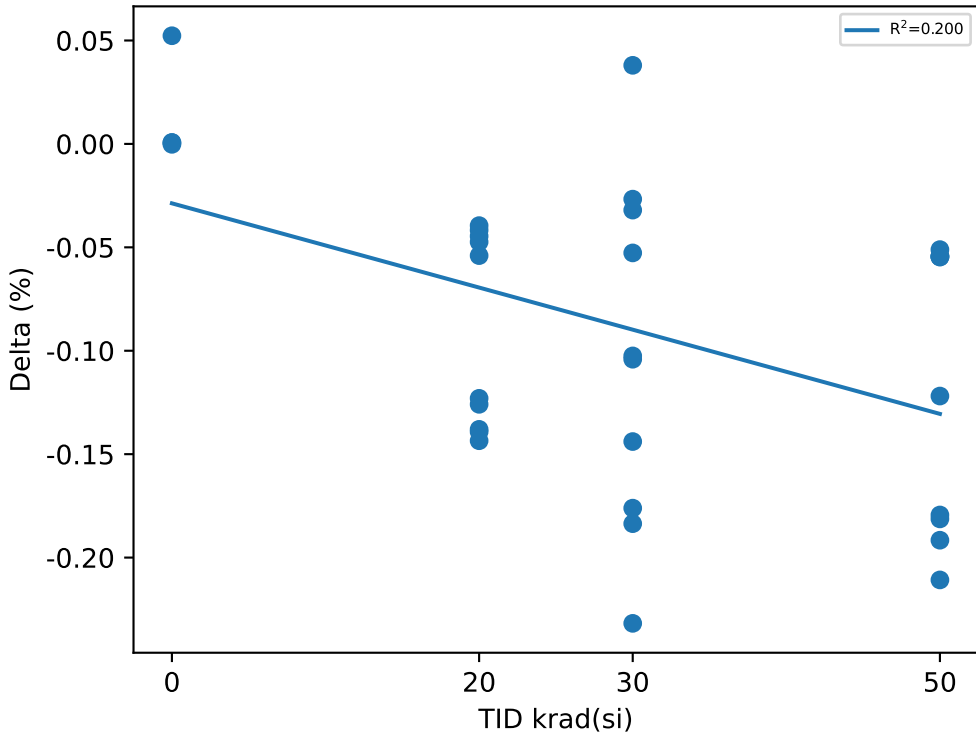
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.8361 | 2.8573 | 2.8943 | 0.025526 | 2.8359 | 2.8707 | 2.9045 | 0.034092 | -0.0002 | 0.01335 | 0.0523 | 0.02597 |
| 20 | 2.8168 | 2.8666 | 2.9175 | 0.034842 | 2.6909 | 2.777 | 2.8436 | 0.048791 | -0.1435 | -0.08968 | -0.0395 | 0.047163 |
| 30 | 2.8149 | 2.8752 | 2.9328 | 0.045068 | 2.6863 | 2.7737 | 2.8677 | 0.0511 | -0.2318 | -0.10154 | 0.038 | 0.083902 |
| 50 | 2.8319 | 2.875 | 2.9291 | 0.027925 | 2.6588 | 2.7595 | 2.8745 | 0.082579 | -0.2108 | -0.1154 | -0.0511 | 0.068614 |

# Device Test: 15.125 VOL_EN_10MA(_EVEL|VOL/EN4/7/14/0/0/10/@VOL_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

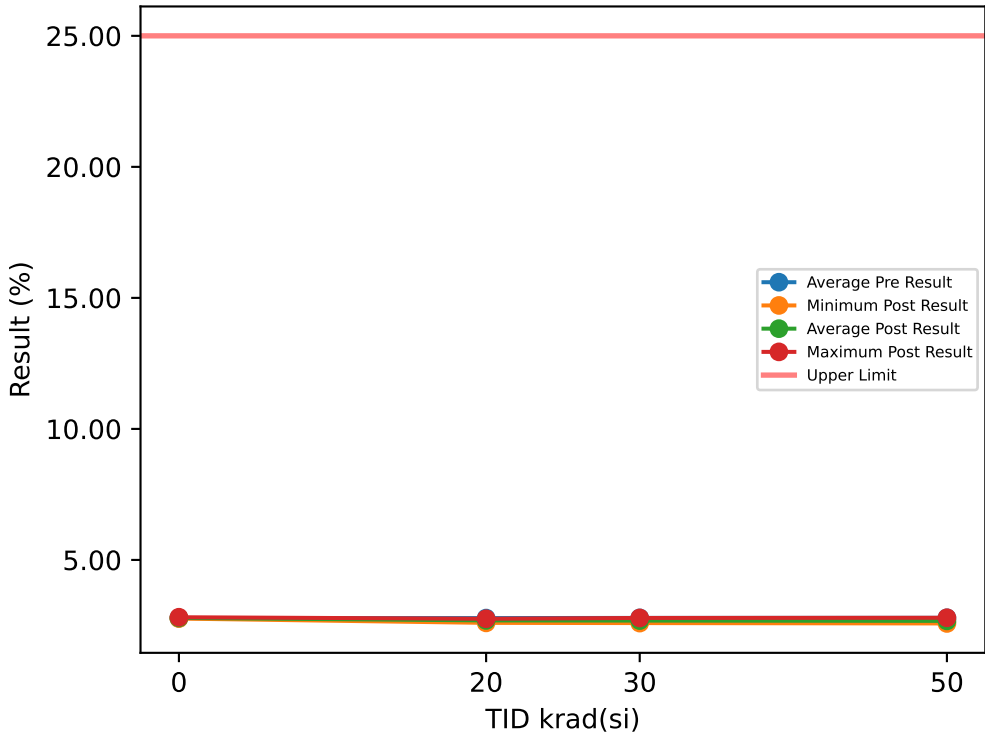| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.8018 | 2.6597 | -0.1421 |
| 2 | 20 | Bias | 2.8092 | 2.6716 | -0.1376 |
| 3 | 20 | Bias | 2.8252 | 2.6887 | -0.1365 |
| 4 | 20 | Bias | 2.7238 | 2.5979 | -0.1259 |
| 5 | 20 | Bias | 2.7747 | 2.6505 | -0.1242 |
| 6 | 20 | Unbiased | 2.8062 | 2.753 | -0.0532 |
| 7 | 20 | Unbiased | 2.7992 | 2.755 | -0.0442 |
| 8 | 20 | Unbiased | 2.7934 | 2.7475 | -0.0459 |
| 9 | 20 | Unbiased | 2.74 | 2.6997 | -0.0403 |
| 10 | 20 | Unbiased | 2.7408 | 2.7016 | -0.0392 |
| 11 | 30 | Bias | 2.8371 | 2.6478 | -0.1893 |
| 12 | 30 | Bias | 2.8489 | 2.6696 | -0.1793 |
| 13 | 30 | Bias | 2.8285 | 2.6842 | -0.1443 |
| 14 | 30 | Bias | 2.7491 | 2.6602 | -0.0889 |
| 15 | 30 | Bias | 2.8355 | 2.5901 | -0.2454 |
| 16 | 30 | Unbiased | 2.7445 | 2.7856 | 0.0411 |
| 17 | 30 | Unbiased | 2.7195 | 2.6974 | -0.0221 |
| 18 | 30 | Unbiased | 2.7312 | 2.6748 | -0.0564 |
| 19 | 30 | Unbiased | 2.8016 | 2.6881 | -0.1135 |
| 20 | 30 | Unbiased | 2.7814 | 2.7592 | -0.0222 |
| 21 | 50 | Bias | 2.79 | 2.6065 | -0.1835 |
| 22 | 50 | Bias | 2.8013 | 2.6131 | -0.1882 |
| 23 | 50 | Bias | 2.7466 | 2.6208 | -0.1258 |
| 24 | 50 | Bias | 2.7913 | 2.576 | -0.2153 |
| 25 | 50 | Bias | 2.7741 | 2.5912 | -0.1829 |
| 26 | 50 | Unbiased | 2.7752 | 2.7247 | -0.0505 |
| 27 | 50 | Unbiased | 2.7927 | 2.7389 | -0.0538 |
| 28 | 50 | Unbiased | 2.7827 | 2.7276 | -0.0551 |
| 29 | 50 | Unbiased | 2.8479 | 2.7933 | -0.0546 |
| 30 | 50 | Unbiased | 2.8028 | 2.7477 | -0.0551 |
| 31 | 0 | Correlation | 2.7646 | 2.7645 | -0.0001 |
| 32 | 0 | Correlation | 2.762 | 2.7621 | 0.0001 |
| 33 | 0 | Correlation | 2.8132 | 2.8137 | 0.0005 |
| 34 | 0 | Correlation | 2.7722 | 2.8118 | 0.0396 |

## Test Statistics (%)
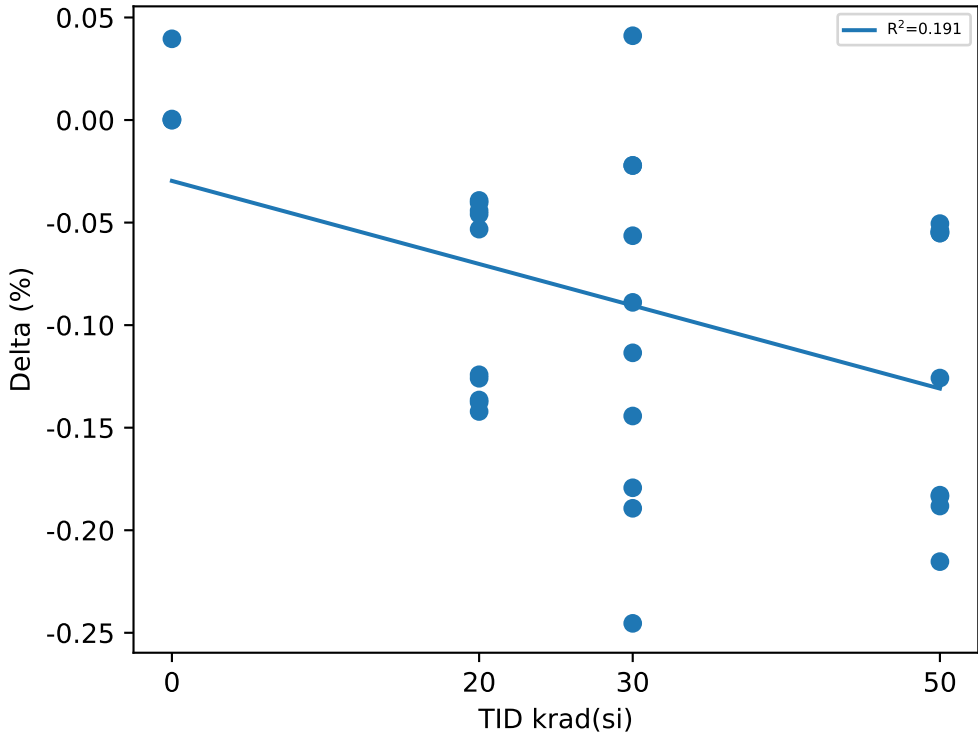
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.762 | 2.778 | 2.8132 | 0.023862 | 2.7621 | 2.788 | 2.8137 | 0.028577 | -0.0001 | 0.010025 | 0.0396 | 0.019718 |
| 20 | 2.7238 | 2.7814 | 2.8252 | 0.034814 | 2.5979 | 2.6925 | 2.755 | 0.050516 | -0.1421 | -0.08891 | -0.0392 | 0.047183 |
| 30 | 2.7195 | 2.7877 | 2.8489 | 0.048953 | 2.5901 | 2.6857 | 2.7856 | 0.054905 | -0.2454 | -0.10203 | 0.0411 | 0.08917 |
| 50 | 2.7466 | 2.7905 | 2.8479 | 0.025948 | 2.576 | 2.674 | 2.7933 | 0.079495 | -0.2153 | -0.11648 | -0.0505 | 0.069559 |
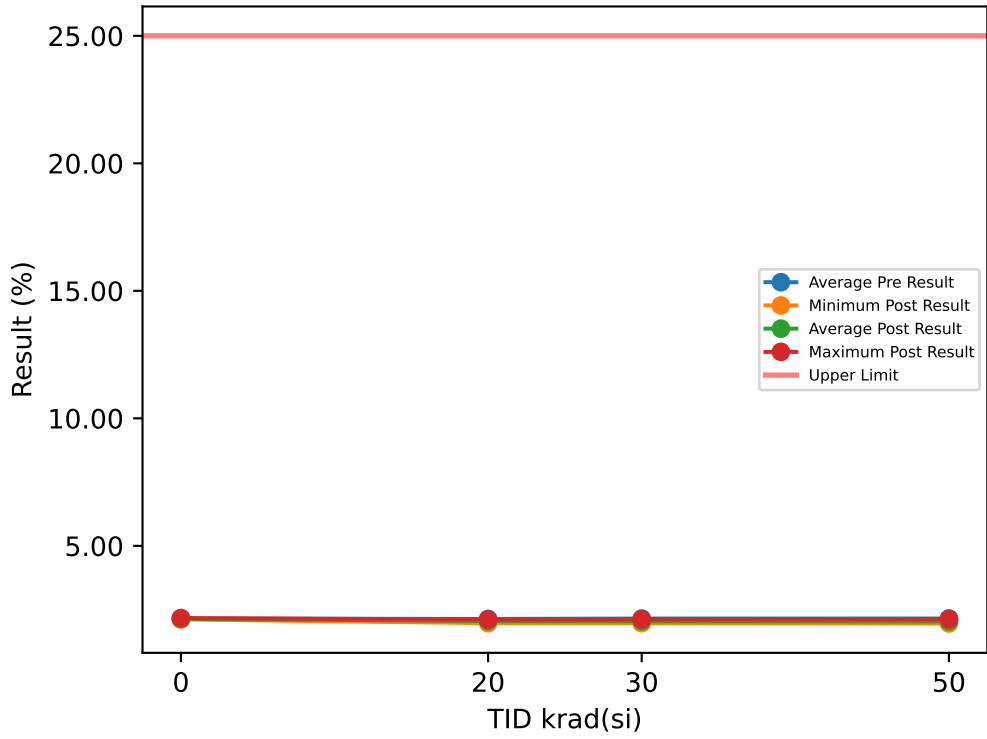
# Device Test: 15.126 VOL_SEQ_DONE_10MA(_EVEL|VOL/SEQ/DONE/7/14/0/0/10/@VOL_SEQ_DONE_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.1576 | 2.0219 | -0.1357 |
| 2 | 20 | Bias | 2.1628 | 2.0297 | -0.1331 |
| 3 | 20 | Bias | 2.178 | 2.048 | -0.13 |
| 4 | 20 | Bias | 2.0908 | 1.9689 | -0.1219 |
| 5 | 20 | Bias | 2.1301 | 2.0152 | -0.1149 |
| 6 | 20 | Unbiased | 2.1464 | 2.1 | -0.0464 |
| 7 | 20 | Unbiased | 2.149 | 2.1092 | -0.0398 |
| 8 | 20 | Unbiased | 2.137 | 2.0956 | -0.0414 |
| 9 | 20 | Unbiased | 2.096 | 2.0587 | -0.0373 |
| 10 | 20 | Unbiased | 2.0976 | 2.062 | -0.0356 |
| 11 | 30 | Bias | 2.1663 | 1.9965 | -0.1698 |
| 12 | 30 | Bias | 2.1908 | 2.0052 | -0.1856 |
| 13 | 30 | Bias | 2.1747 | 2.032 | -0.1427 |
| 14 | 30 | Bias | 2.1235 | 2.0134 | -0.1101 |
| 15 | 30 | Bias | 2.1686 | 1.9702 | -0.1984 |
| 16 | 30 | Unbiased | 2.1042 | 2.1213 | 0.0171 |
| 17 | 30 | Unbiased | 2.106 | 2.06 | -0.046 |
| 18 | 30 | Unbiased | 2.1368 | 2.0637 | -0.0731 |
| 19 | 30 | Unbiased | 2.1472 | 2.0945 | -0.0527 |
| 20 | 30 | Unbiased | 2.1652 | 2.1056 | -0.0596 |
| 21 | 50 | Bias | 2.1614 | 1.9898 | -0.1716 |
| 22 | 50 | Bias | 2.1632 | 1.9849 | -0.1783 |
| 23 | 50 | Bias | 2.1245 | 1.9869 | -0.1376 |
| 24 | 50 | Bias | 2.1337 | 1.9574 | -0.1763 |
| 25 | 50 | Bias | 2.1365 | 1.9568 | -0.1797 |
| 26 | 50 | Unbiased | 2.1353 | 2.0869 | -0.0484 |
| 27 | 50 | Unbiased | 2.16 | 2.1087 | -0.0513 |
| 28 | 50 | Unbiased | 2.136 | 2.0853 | -0.0507 |
| 29 | 50 | Unbiased | 2.1832 | 2.1301 | -0.0531 |
| 30 | 50 | Unbiased | 2.1676 | 2.1149 | -0.0527 |
| 31 | 0 | Correlation | 2.1222 | 2.1222 | 0 |
| 32 | 0 | Correlation | 2.1134 | 2.1141 | 0.0007 |
| 33 | 0 | Correlation | 2.1693 | 2.1704 | 0.0011 |
| 34 | 0 | Correlation | 2.1624 | 2.1524 | -0.01 |

## Test Statistics (%)
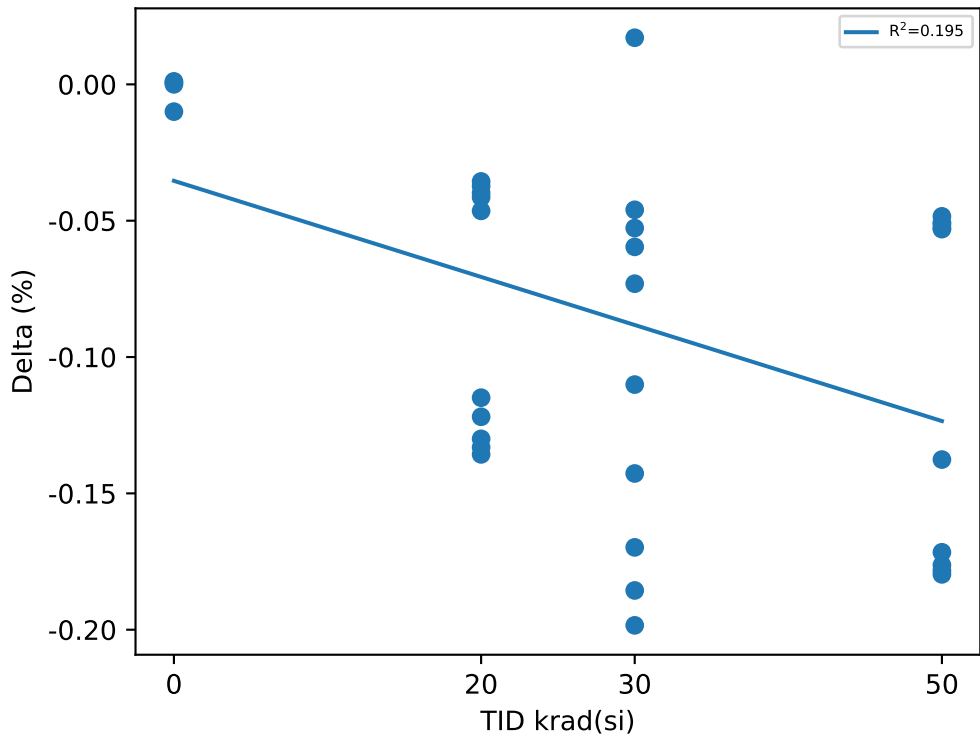
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.1134 | 2.1418 | 2.1693 | 0.028115 | 2.1141 | 2.1398 | 2.1704 | 0.026238 | -0.01 | -0.00205 | 0.0011 | 0.0053195 |
| 20 | 2.0908 | 2.1345 | 2.178 | 0.030474 | 1.9689 | 2.0509 | 2.1092 | 0.043829 | -0.1357 | -0.08361 | -0.0356 | 0.046302 |
| 30 | 2.1042 | 2.1483 | 2.1908 | 0.029828 | 1.9702 | 2.0462 | 2.1213 | 0.050775 | -0.1984 | -0.10209 | 0.0171 | 0.070699 |
| 50 | 2.1245 | 2.1501 | 2.1832 | 0.019225 | 1.9568 | 2.0402 | 2.1301 | 0.070569 | -0.1797 | -0.10997 | -0.0484 | 0.063028 |

# Device Test: 15.127 VOL_PWRGD_10MA(_EVEL|VOL/PWRGD/7/14/0/0/10/@VOL_PWRGD_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 25.0 (%))

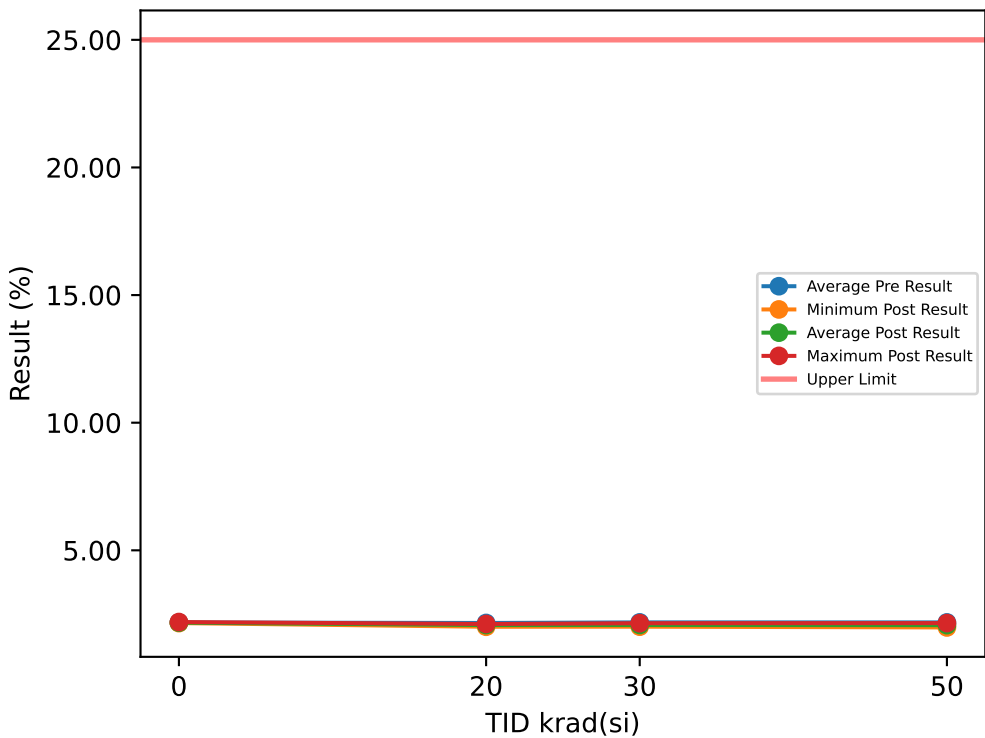| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.1732 | 2.0398 | -0.1334 |
| 2 | 20 | Bias | 2.1789 | 2.0474 | -0.1315 |
| 3 | 20 | Bias | 2.2075 | 2.0792 | -0.1283 |
| 4 | 20 | Bias | 2.1263 | 2.0049 | -0.1214 |
| 5 | 20 | Bias | 2.1334 | 2.0207 | -0.1127 |
| 6 | 20 | Unbiased | 2.1579 | 2.1122 | -0.0457 |
| 7 | 20 | Unbiased | 2.1525 | 2.114 | -0.0385 |
| 8 | 20 | Unbiased | 2.1476 | 2.1072 | -0.0404 |
| 9 | 20 | Unbiased | 2.1239 | 2.0868 | -0.0371 |
| 10 | 20 | Unbiased | 2.138 | 2.1027 | -0.0353 |
| 11 | 30 | Bias | 2.1931 | 2.0162 | -0.1769 |
| 12 | 30 | Bias | 2.209 | 2.0355 | -0.1735 |
| 13 | 30 | Bias | 2.1825 | 2.0532 | -0.1293 |
| 14 | 30 | Bias | 2.1608 | 2.0264 | -0.1344 |
| 15 | 30 | Bias | 2.1898 | 2.0082 | -0.1816 |
| 16 | 30 | Unbiased | 2.1472 | 2.1445 | -0.0027 |
| 17 | 30 | Unbiased | 2.146 | 2.1044 | -0.0416 |
| 18 | 30 | Unbiased | 2.1696 | 2.1056 | -0.064 |
| 19 | 30 | Unbiased | 2.1655 | 2.1298 | -0.0357 |
| 20 | 30 | Unbiased | 2.2002 | 2.1273 | -0.0729 |
| 21 | 50 | Bias | 2.1828 | 2.0284 | -0.1544 |
| 22 | 50 | Bias | 2.1827 | 2.0104 | -0.1723 |
| 23 | 50 | Bias | 2.1397 | 2.0089 | -0.1308 |
| 24 | 50 | Bias | 2.1661 | 1.9779 | -0.1882 |
| 25 | 50 | Bias | 2.1675 | 1.9876 | -0.1799 |
| 26 | 50 | Unbiased | 2.1973 | 2.1476 | -0.0497 |
| 27 | 50 | Unbiased | 2.185 | 2.1342 | -0.0508 |
| 28 | 50 | Unbiased | 2.1475 | 2.0964 | -0.0511 |
| 29 | 50 | Unbiased | 2.1998 | 2.1488 | -0.051 |
| 30 | 50 | Unbiased | 2.1856 | 2.1338 | -0.0518 |
| 31 | 0 | Correlation | 2.1474 | 2.1482 | 0.0008 |
| 32 | 0 | Correlation | 2.1545 | 2.1544 | -0.0001 |
| 33 | 0 | Correlation | 2.1887 | 2.19 | 0.0013 |
| 34 | 0 | Correlation | 2.1954 | 2.1691 | -0.0263 |

## Test Statistics (%)
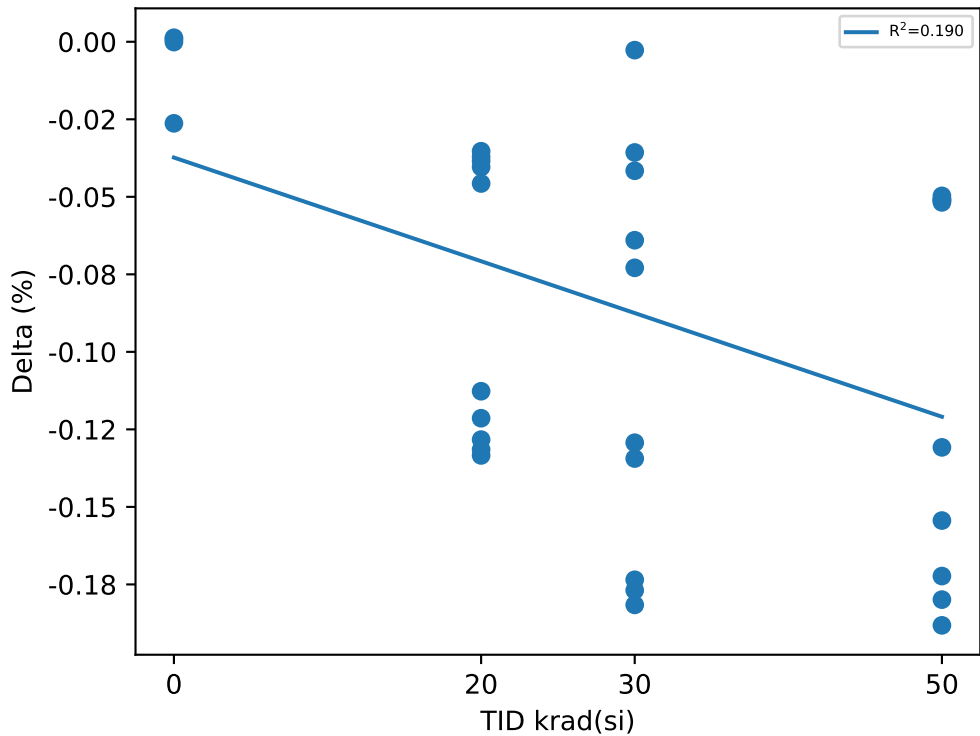
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.1474 | 2.1715 | 2.1954 | 0.024061 | 2.1482 | 2.1654 | 2.19 | 0.01858 | -0.0263 | -0.006075 | 0.0013 | 0.013496 |
| 20 | 2.1239 | 2.1539 | 2.2075 | 0.02638 | 2.0049 | 2.0715 | 2.114 | 0.040285 | -0.1334 | -0.08243 | -0.0353 | 0.045785 |
| 30 | 2.146 | 2.1764 | 2.209 | 0.021884 | 2.0082 | 2.0751 | 2.1445 | 0.052373 | -0.1816 | -0.10126 | -0.0027 | 0.065864 |
| 50 | 2.1397 | 2.1754 | 2.1998 | 0.019947 | 1.9779 | 2.0674 | 2.1488 | 0.070978 | -0.1882 | -0.108 | -0.0497 | 0.062115 |

# Device Test: 15.128 UVLO_RISE(_UVLO|RISE/IN///0/0/0/@UVLO_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 2.72, Upper Limit = 2.84 (V))

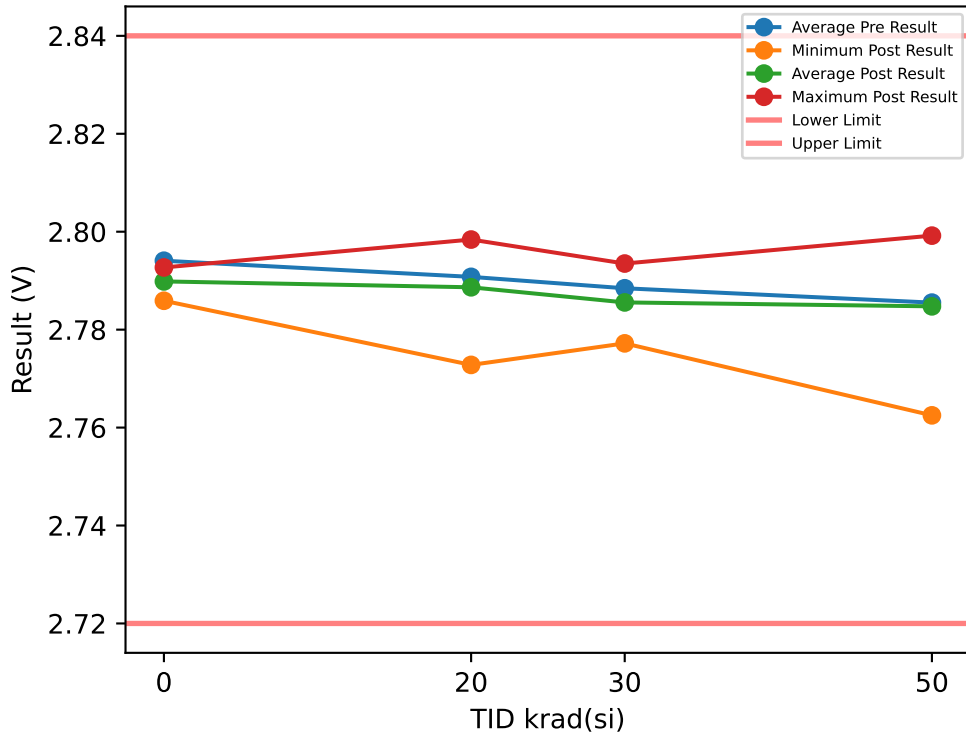| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.7905 | 2.7891 | -0.0014 |
| 2 | 20 | Bias | 2.7826 | 2.7728 | -0.0098 |
| 3 | 20 | Bias | 2.8007 | 2.7984 | -0.0023 |
| 4 | 20 | Bias | 2.7794 | 2.7749 | -0.0045 |
| 5 | 20 | Bias | 2.7904 | 2.7872 | -0.0032 |
| 6 | 20 | Unbiased | 2.7872 | 2.7887 | 0.0015 |
| 7 | 20 | Unbiased | 2.7929 | 2.7946 | 0.0017 |
| 8 | 20 | Unbiased | 2.7977 | 2.7925 | -0.0052 |
| 9 | 20 | Unbiased | 2.7972 | 2.7961 | -0.0011 |
| 10 | 20 | Unbiased | 2.7892 | 2.7922 | 0.003 |
| 11 | 30 | Bias | 2.7872 | 2.7824 | -0.0048 |
| 12 | 30 | Bias | 2.7892 | 2.7874 | -0.0018 |
| 13 | 30 | Bias | 2.7835 | 2.7816 | -0.0019 |
| 14 | 30 | Bias | 2.7847 | 2.7848 | 0.0001 |
| 15 | 30 | Bias | 2.7946 | 2.779 | -0.0156 |
| 16 | 30 | Unbiased | 2.7959 | 2.7935 | -0.0024 |
| 17 | 30 | Unbiased | 2.7818 | 2.7925 | 0.0107 |
| 18 | 30 | Unbiased | 2.7941 | 2.7841 | -0.01 |
| 19 | 30 | Unbiased | 2.7743 | 2.7931 | 0.0188 |
| 20 | 30 | Unbiased | 2.7992 | 2.7772 | -0.022 |
| 21 | 50 | Bias | 2.7861 | 2.7928 | 0.0067 |
| 22 | 50 | Bias | 2.7724 | 2.7809 | 0.0085 |
| 23 | 50 | Bias | 2.788 | 2.7625 | -0.0255 |
| 24 | 50 | Bias | 2.7783 | 2.7871 | 0.0088 |
| 25 | 50 | Bias | 2.791 | 2.7895 | -0.0015 |
| 26 | 50 | Unbiased | 2.7927 | 2.7874 | -0.0053 |
| 27 | 50 | Unbiased | 2.7759 | 2.7743 | -0.0016 |
| 28 | 50 | Unbiased | 2.7865 | 2.7897 | 0.0032 |
| 29 | 50 | Unbiased | 2.8009 | 2.7992 | -0.0017 |
| 30 | 50 | Unbiased | 2.7834 | 2.7842 | 0.0008 |
| 31 | 0 | Correlation | 2.7931 | 2.7927 | -0.0004 |
| 32 | 0 | Correlation | 2.7932 | 2.7926 | -0.0006 |
| 33 | 0 | Correlation | 2.786 | 2.7859 | -0.0001 |
| 34 | 0 | Correlation | 2.804 | 2.7882 | -0.0158 |

## Test Statistics (V)
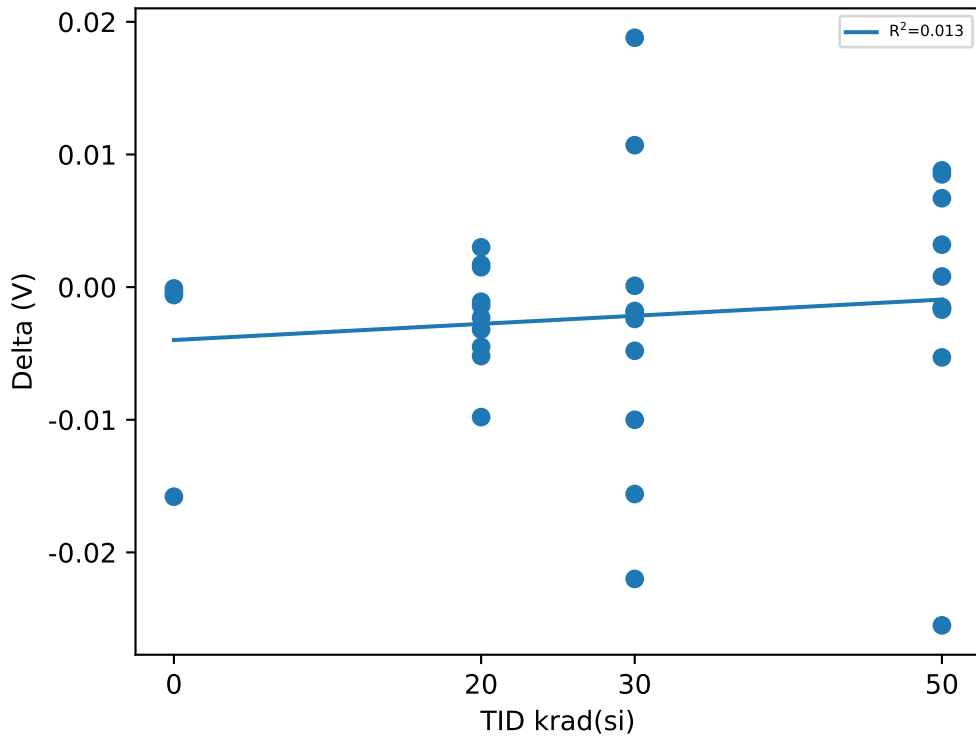
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.786 | 2.7941 | 2.804 | 0.0074258 | 2.7859 | 2.7898 | 2.7927 | 0.003367 | -0.0158 | -0.004225 | -0.0001 | 0.0077194 |
| 20 | 2.7794 | 2.7908 | 2.8007 | 0.0066996 | 2.7728 | 2.7886 | 2.7984 | 0.0085374 | -0.0098 | -0.00213 | 0.003 | 0.0038123 |
| 30 | 2.7743 | 2.7885 | 2.7992 | 0.0076445 | 2.7772 | 2.7856 | 2.7935 | 0.0058949 | -0.022 | -0.00289 | 0.0188 | 0.011773 |
| 50 | 2.7724 | 2.7855 | 2.8009 | 0.0084779 | 2.7625 | 2.7848 | 2.7992 | 0.010288 | -0.0255 | -0.00076 | 0.0088 | 0.0099204 |

# Device Test: 15.129 UVLO_FALL(_UVLO|FALL/IN///0/0/0/@UVLO_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



R²=0.042

## Test Results (Lower Limit = 2.59, Upper Limit = 2.69 (V))

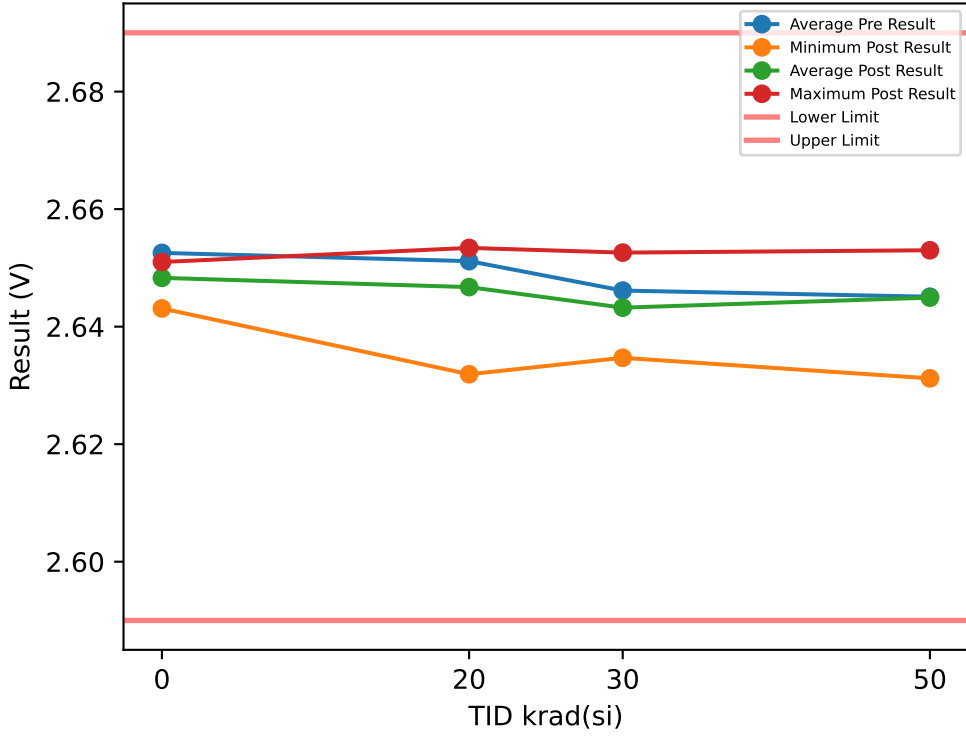| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.6525 | 2.6477 | -0.0048 |
| 2 | 20 | Bias | 2.6376 | 2.6354 | -0.0022 |
| 3 | 20 | Bias | 2.6589 | 2.6525 | -0.0064 |
| 4 | 20 | Bias | 2.6363 | 2.6319 | -0.0044 |
| 5 | 20 | Bias | 2.6552 | 2.6487 | -0.0065 |
| 6 | 20 | Unbiased | 2.6542 | 2.649 | -0.0052 |
| 7 | 20 | Unbiased | 2.6549 | 2.6534 | -0.0015 |
| 8 | 20 | Unbiased | 2.6573 | 2.6487 | -0.0086 |
| 9 | 20 | Unbiased | 2.6582 | 2.6507 | -0.0075 |
| 10 | 20 | Unbiased | 2.6464 | 2.6493 | 0.0029 |
| 11 | 30 | Bias | 2.6499 | 2.6407 | -0.0092 |
| 12 | 30 | Bias | 2.6471 | 2.6431 | -0.004 |
| 13 | 30 | Bias | 2.6432 | 2.6439 | 0.0007 |
| 14 | 30 | Bias | 2.6422 | 2.6416 | -0.0006 |
| 15 | 30 | Bias | 2.6542 | 2.6407 | -0.0135 |
| 16 | 30 | Unbiased | 2.6503 | 2.6526 | 0.0023 |
| 17 | 30 | Unbiased | 2.6389 | 2.6471 | 0.0082 |
| 18 | 30 | Unbiased | 2.6486 | 2.64 | -0.0086 |
| 19 | 30 | Unbiased | 2.6311 | 2.6479 | 0.0168 |
| 20 | 30 | Unbiased | 2.6559 | 2.6347 | -0.0212 |
| 21 | 50 | Bias | 2.6438 | 2.6519 | 0.0081 |
| 22 | 50 | Bias | 2.6279 | 2.6467 | 0.0188 |
| 23 | 50 | Bias | 2.6422 | 2.6312 | -0.011 |
| 24 | 50 | Bias | 2.6476 | 2.6415 | -0.0061 |
| 25 | 50 | Bias | 2.6534 | 2.651 | -0.0024 |
| 26 | 50 | Unbiased | 2.6472 | 2.6463 | -0.0009 |
| 27 | 50 | Unbiased | 2.6358 | 2.6353 | -0.0005 |
| 28 | 50 | Unbiased | 2.6492 | 2.6493 | 0.0001 |
| 29 | 50 | Unbiased | 2.6575 | 2.653 | -0.0045 |
| 30 | 50 | Unbiased | 2.6463 | 2.6432 | -0.0031 |
| 31 | 0 | Correlation | 2.6509 | 2.651 | 0.0001 |
| 32 | 0 | Correlation | 2.6509 | 2.6509 | 0 |
| 33 | 0 | Correlation | 2.6495 | 2.6482 | -0.0013 |
| 34 | 0 | Correlation | 2.6589 | 2.6431 | -0.0158 |

## Test Statistics (V)
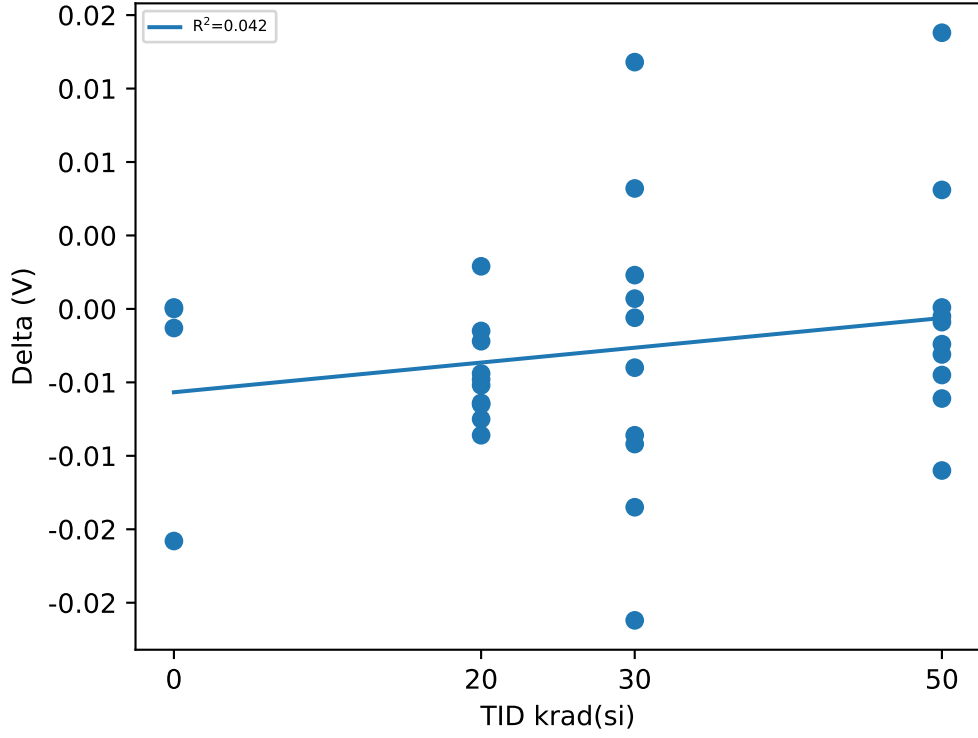
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.6495 | 2.6526 | 2.6589 | 0.0042845 | 2.6431 | 2.6483 | 2.651 | 0.0037014 | -0.0158 | -0.00425 | 0.0001 | 0.0077264 |
| 20 | 2.6363 | 2.6511 | 2.6589 | 0.0082722 | 2.6319 | 2.6467 | 2.6534 | 0.0071671 | -0.0086 | -0.00442 | 0.0029 | 0.0033829 |
| 30 | 2.6311 | 2.6461 | 2.6559 | 0.0074642 | 2.6347 | 2.6432 | 2.6526 | 0.0049855 | -0.0212 | -0.00291 | 0.0168 | 0.01094 |
| 50 | 2.6279 | 2.6451 | 2.6575 | 0.008459 | 2.6312 | 2.6449 | 2.653 | 0.0072316 | -0.011 | -0.00015 | 0.0188 | 0.0082578 |

# Device Test: 15.13 ILKG_SENSE(_LEAKAGE|SENSE1/SENSE1//3/0/0/0/@ILKG_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

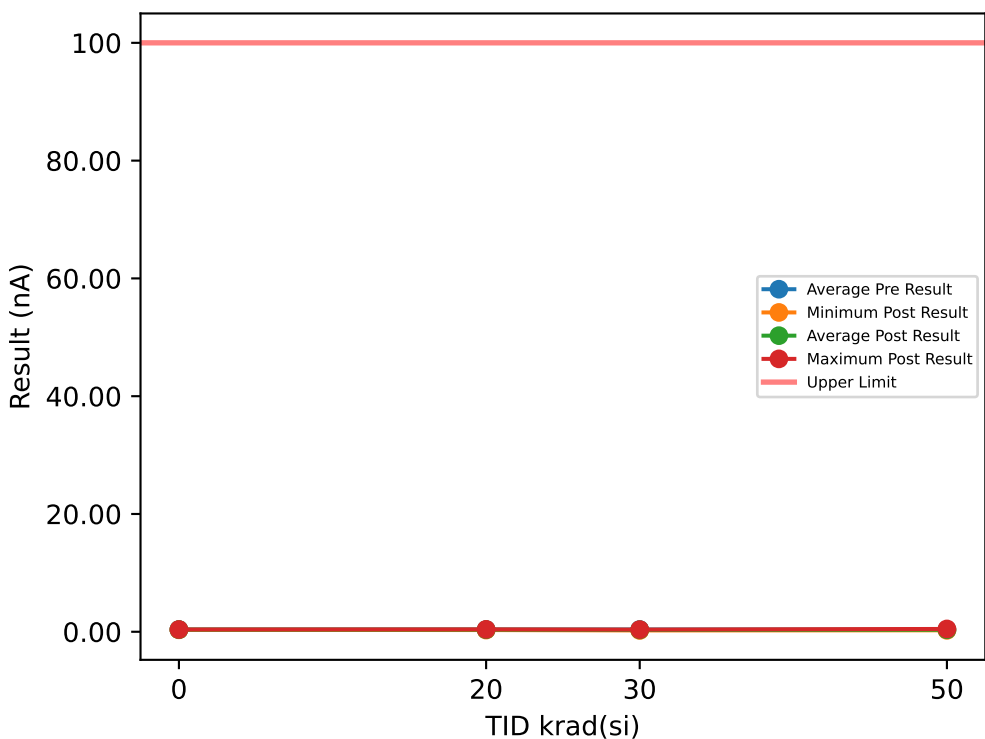| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.3171 | 0.3265 | 0.0094 |
| 2 | 20 | Bias | 0.3827 | 0.3546 | -0.0281 |
| 3 | 20 | Bias | 0.3608 | 0.3608 | 0 |
| 4 | 20 | Bias | 0.3733 | 0.3389 | -0.0344 |
| 5 | 20 | Bias | 0.3046 | 0.289 | -0.0156 |
| 6 | 20 | Unbiased | 0.4108 | 0.3452 | -0.0656 |
| 7 | 20 | Unbiased | 0.3514 | 0.4014 | 0.05 |
| 8 | 20 | Unbiased | 0.367 | 0.4108 | 0.0438 |
| 9 | 20 | Unbiased | 0.3546 | 0.392 | 0.0374 |
| 10 | 20 | Unbiased | 0.417 | 0.3514 | -0.0656 |
| 11 | 30 | Bias | 0.3577 | 0.3222 | -0.0355 |
| 12 | 30 | Bias | 0.3608 | 0.3222 | -0.0386 |
| 13 | 30 | Bias | 0.4451 | 0.3347 | -0.1104 |
| 14 | 30 | Bias | 0.3327 | 0.3597 | 0.027 |
| 15 | 30 | Bias | 0.4108 | 0.3691 | -0.0417 |
| 16 | 30 | Unbiased | 0.392 | 0.2723 | -0.1197 |
| 17 | 30 | Unbiased | 0.3639 | 0.2754 | -0.0885 |
| 18 | 30 | Unbiased | 0.3483 | 0.3722 | 0.0239 |
| 19 | 30 | Unbiased | 0.3577 | 0.3441 | -0.0136 |
| 20 | 30 | Unbiased | 0.4264 | 0.2223 | -0.2041 |
| 21 | 50 | Bias | 0.3514 | 0.3285 | -0.0229 |
| 22 | 50 | Bias | 0.4014 | 0.3191 | -0.0823 |
| 23 | 50 | Bias | 0.3858 | 0.3535 | -0.0323 |
| 24 | 50 | Bias | 0.3639 | 0.2442 | -0.1197 |
| 25 | 50 | Bias | 0.2515 | 0.3421 | 0.0906 |
| 26 | 50 | Unbiased | 0.314 | 0.3108 | -0.0032 |
| 27 | 50 | Unbiased | 0.2734 | 0.4014 | 0.128 |
| 28 | 50 | Unbiased | 0.4139 | 0.3171 | -0.0968 |
| 29 | 50 | Unbiased | 0.3202 | 0.3077 | -0.0125 |
| 30 | 50 | Unbiased | 0.4232 | 0.4794 | 0.0562 |
| 31 | 0 | Correlation | 0.3546 | 0.3296 | -0.025 |
| 32 | 0 | Correlation | 0.3389 | 0.3639 | 0.025 |
| 33 | 0 | Correlation | 0.3608 | 0.3858 | 0.025 |
| 34 | 0 | Correlation | 0.4139 | 0.3733 | -0.0406 |

## Test Statistics (nA)
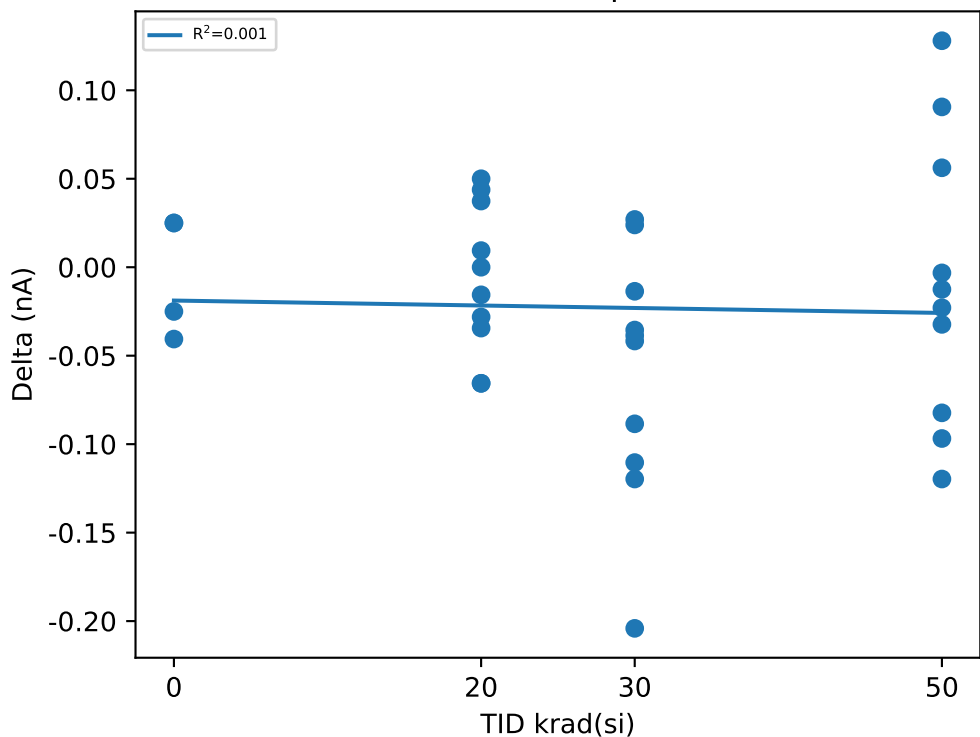
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.3389 | 0.36705 | 0.4139 | 0.032565 | 0.3296 | 0.36315 | 0.3858 | 0.024098 | -0.0406 | -0.0039 | 0.025 | 0.033973 |
| 20 | 0.3046 | 0.36393 | 0.417 | 0.035637 | 0.289 | 0.35706 | 0.4108 | 0.036763 | -0.0656 | -0.00687 | 0.05 | 0.042501 |
| 30 | 0.3327 | 0.37954 | 0.4451 | 0.037038 | 0.2223 | 0.31942 | 0.3722 | 0.048677 | -0.2041 | -0.06012 | 0.027 | 0.071364 |
| 50 | 0.2515 | 0.34987 | 0.4232 | 0.058986 | 0.2442 | 0.34038 | 0.4794 | 0.062853 | -0.1197 | -0.00949 | 0.128 | 0.081005 |

# Device Test: 15.130 VIN_VALID(_LEVEL|RISE/EN1/1.6//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.5571 | 1.6009 | 0.0438 |
| 2 | 20 | Bias | 1.5488 | 1.5852 | 0.0364 |
| 3 | 20 | Bias | 1.5368 | 1.5768 | 0.04 |
| 4 | 20 | Bias | 1.5328 | 1.5647 | 0.0319 |
| 5 | 20 | Bias | 1.5368 | 1.5686 | 0.0318 |
| 6 | 20 | Unbiased | 1.5248 | 1.561 | 0.0362 |
| 7 | 20 | Unbiased | 1.5448 | 1.5806 | 0.0358 |
| 8 | 20 | Unbiased | 1.5206 | 1.5527 | 0.0321 |
| 9 | 20 | Unbiased | 1.5367 | 1.5651 | 0.0284 |
| 10 | 20 | Unbiased | 1.5483 | 1.5842 | 0.0359 |
| 11 | 30 | Bias | 1.5368 | 1.5963 | 0.0595 |
| 12 | 30 | Bias | 1.5526 | 1.5807 | 0.0281 |
| 13 | 30 | Bias | 1.5286 | 1.596 | 0.0674 |
| 14 | 30 | Bias | 1.5287 | 1.5803 | 0.0516 |
| 15 | 30 | Bias | 1.5568 | 1.5759 | 0.0191 |
| 16 | 30 | Unbiased | 1.5213 | 1.5995 | 0.0782 |
| 17 | 30 | Unbiased | 1.5406 | 1.5734 | 0.0328 |
| 18 | 30 | Unbiased | 1.5327 | 1.5882 | 0.0555 |
| 19 | 30 | Unbiased | 1.5645 | 1.588 | 0.0235 |
| 20 | 30 | Unbiased | 1.5205 | 1.616 | 0.0955 |
| 21 | 50 | Bias | 1.541 | 1.5719 | 0.0309 |
| 22 | 50 | Bias | 1.5488 | 1.6043 | 0.0555 |
| 23 | 50 | Bias | 1.5407 | 1.6165 | 0.0758 |
| 24 | 50 | Bias | 1.5246 | 1.6081 | 0.0835 |
| 25 | 50 | Bias | 1.5365 | 1.5966 | 0.0601 |
| 26 | 50 | Unbiased | 1.5488 | 1.6249 | 0.0761 |
| 27 | 50 | Unbiased | 1.5246 | 1.6049 | 0.0803 |
| 28 | 50 | Unbiased | 1.5326 | 1.6124 | 0.0798 |
| 29 | 50 | Unbiased | 1.5247 | 1.6127 | 0.088 |
| 30 | 50 | Unbiased | 1.5251 | 1.6017 | 0.0766 |
| 31 | 0 | Correlation | 1.5687 | 1.5686 | -0.0001 |
| 32 | 0 | Correlation | 1.5408 | 1.5408 | 0 |
| 33 | 0 | Correlation | 1.5129 | 1.513 | 0.0001 |
| 34 | 0 | Correlation | 1.5245 | 1.5488 | 0.0243 |

## Test Statistics (V)
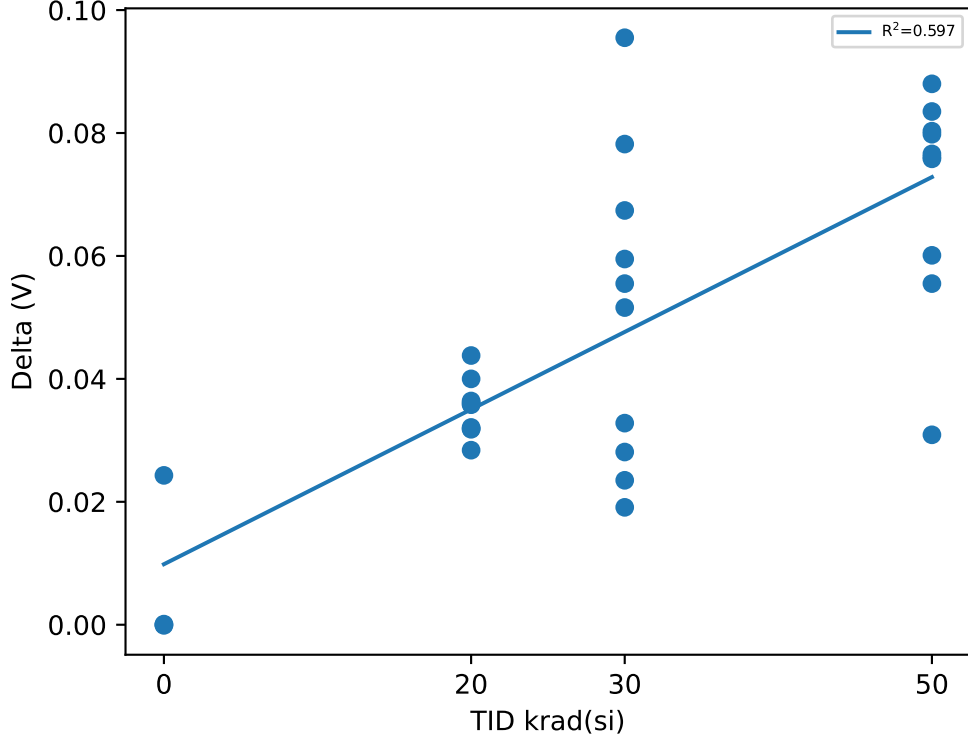
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.5129 | 1.5367 | 1.5687 | 0.024194 | 1.513 | 1.5428 | 1.5686 | 0.023048 | -0.0001 | 0.006075 | 0.0243 | 0.01215 |
| 20 | 1.5206 | 1.5387 | 1.5571 | 0.011239 | 1.5527 | 1.574 | 1.6009 | 0.014228 | 0.0284 | 0.03523 | 0.0438 | 0.0044545 |
| 30 | 1.5205 | 1.5383 | 1.5645 | 0.015144 | 1.5734 | 1.5894 | 1.616 | 0.012914 | 0.0191 | 0.05112 | 0.0955 | 0.025191 |
| 50 | 1.5246 | 1.5347 | 1.5488 | 0.0098721 | 1.5719 | 1.6054 | 1.6249 | 0.014251 | 0.0309 | 0.07066 | 0.088 | 0.017177 |

# Device Test: 15.131 VIN_VALID(_LEVEL|RISE/EN2/1.6//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

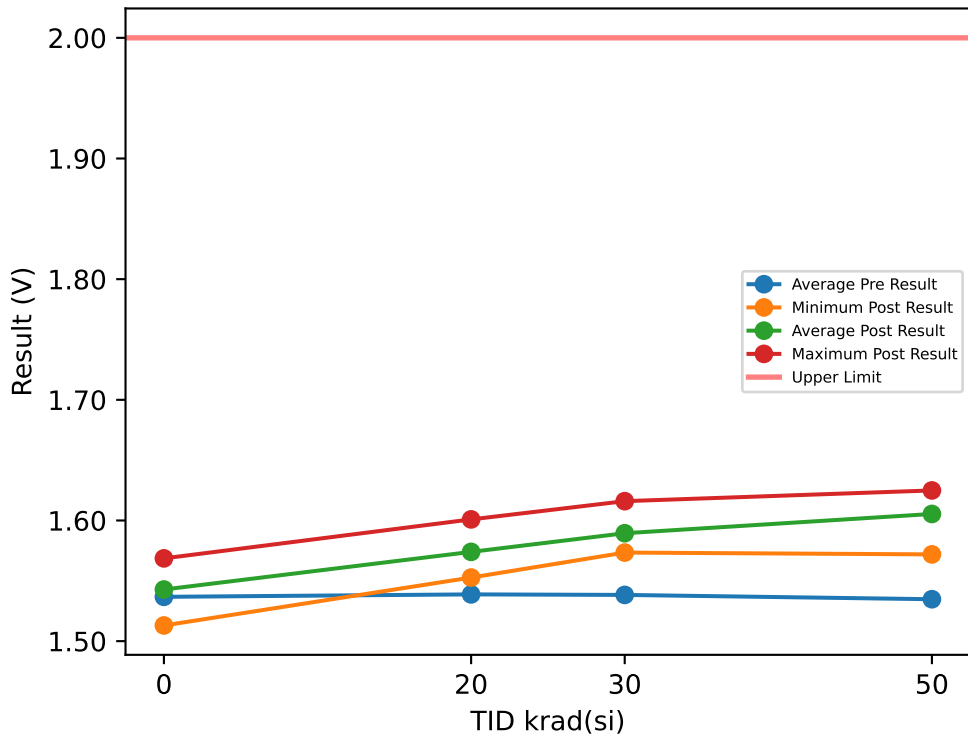| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.5722 | 1.6083 | 0.0361 |
| 2 | 20 | Bias | 1.5601 | 1.5998 | 0.0397 |
| 3 | 20 | Bias | 1.556 | 1.5917 | 0.0357 |
| 4 | 20 | Bias | 1.5335 | 1.5616 | 0.0281 |
| 5 | 20 | Bias | 1.5442 | 1.5758 | 0.0316 |
| 6 | 20 | Unbiased | 1.5398 | 1.5758 | 0.036 |
| 7 | 20 | Unbiased | 1.5561 | 1.5918 | 0.0357 |
| 8 | 20 | Unbiased | 1.5357 | 1.5676 | 0.0319 |
| 9 | 20 | Unbiased | 1.5366 | 1.5687 | 0.0321 |
| 10 | 20 | Unbiased | 1.5485 | 1.5844 | 0.0359 |
| 11 | 30 | Bias | 1.5521 | 1.6 | 0.0479 |
| 12 | 30 | Bias | 1.568 | 1.5955 | 0.0275 |
| 13 | 30 | Bias | 1.5321 | 1.6111 | 0.079 |
| 14 | 30 | Bias | 1.5321 | 1.5873 | 0.0552 |
| 15 | 30 | Bias | 1.5556 | 1.5795 | 0.0239 |
| 16 | 30 | Unbiased | 1.5328 | 1.5992 | 0.0664 |
| 17 | 30 | Unbiased | 1.5478 | 1.5883 | 0.0405 |
| 18 | 30 | Unbiased | 1.5397 | 1.5957 | 0.056 |
| 19 | 30 | Unbiased | 1.568 | 1.5953 | 0.0273 |
| 20 | 30 | Unbiased | 1.5277 | 1.6196 | 0.0919 |
| 21 | 50 | Bias | 1.5481 | 1.583 | 0.0349 |
| 22 | 50 | Bias | 1.5598 | 1.6155 | 0.0557 |
| 23 | 50 | Bias | 1.5407 | 1.6239 | 0.0832 |
| 24 | 50 | Bias | 1.5321 | 1.6046 | 0.0725 |
| 25 | 50 | Bias | 1.544 | 1.6039 | 0.0599 |
| 26 | 50 | Unbiased | 1.5558 | 1.6323 | 0.0765 |
| 27 | 50 | Unbiased | 1.5286 | 1.6123 | 0.0837 |
| 28 | 50 | Unbiased | 1.5322 | 1.6087 | 0.0765 |
| 29 | 50 | Unbiased | 1.536 | 1.6236 | 0.0876 |
| 30 | 50 | Unbiased | 1.5402 | 1.6163 | 0.0761 |
| 31 | 0 | Correlation | 1.5682 | 1.5682 | 0 |
| 32 | 0 | Correlation | 1.5445 | 1.5443 | -0.0002 |
| 33 | 0 | Correlation | 1.5241 | 1.5241 | 0 |
| 34 | 0 | Correlation | 1.5355 | 1.5562 | 0.0207 |

## Test Statistics (V)
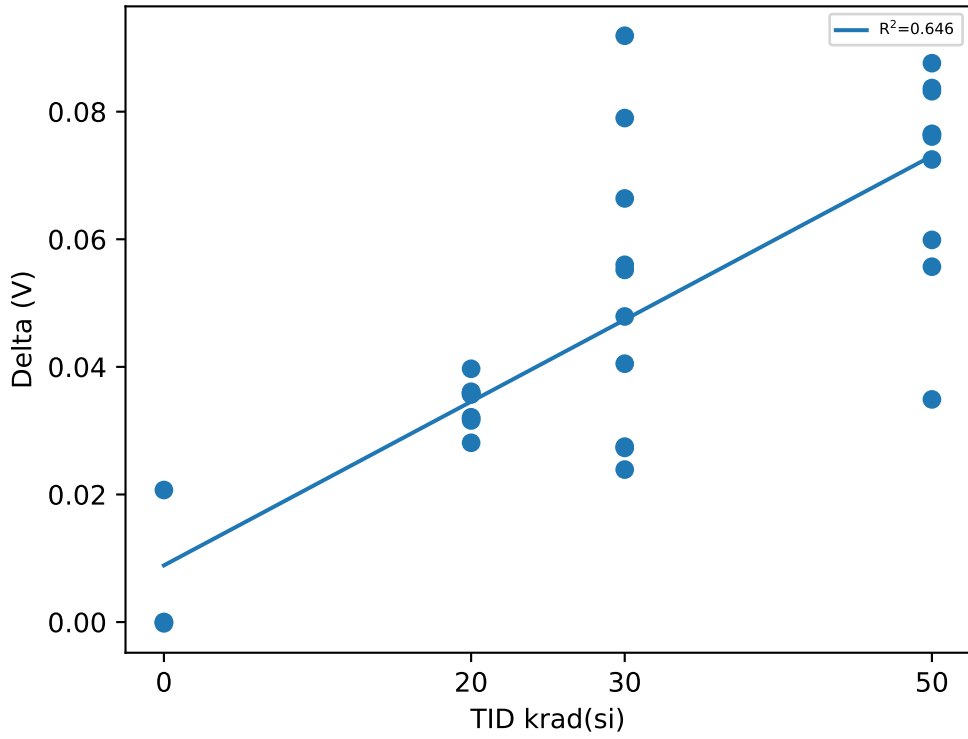
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.5241 | 1.5431 | 1.5682 | 0.018715 | 1.5241 | 1.5482 | 1.5682 | 0.018797 | -0.0002 | 0.005125 | 0.0207 | 0.010384 |
| 20 | 1.5335 | 1.5483 | 1.5722 | 0.012624 | 1.5616 | 1.5825 | 1.6083 | 0.015198 | 0.0281 | 0.03428 | 0.0397 | 0.0033014 |
| 30 | 1.5277 | 1.5456 | 1.568 | 0.015034 | 1.5795 | 1.5971 | 1.6196 | 0.011576 | 0.0239 | 0.05156 | 0.0919 | 0.022856 |
| 50 | 1.5286 | 1.5417 | 1.5598 | 0.010341 | 1.583 | 1.6124 | 1.6323 | 0.013702 | 0.0349 | 0.07066 | 0.0876 | 0.016103 |

# Device Test: 15.132 VIN_VALID(_LEVEL|RISE/EN3/1.6//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

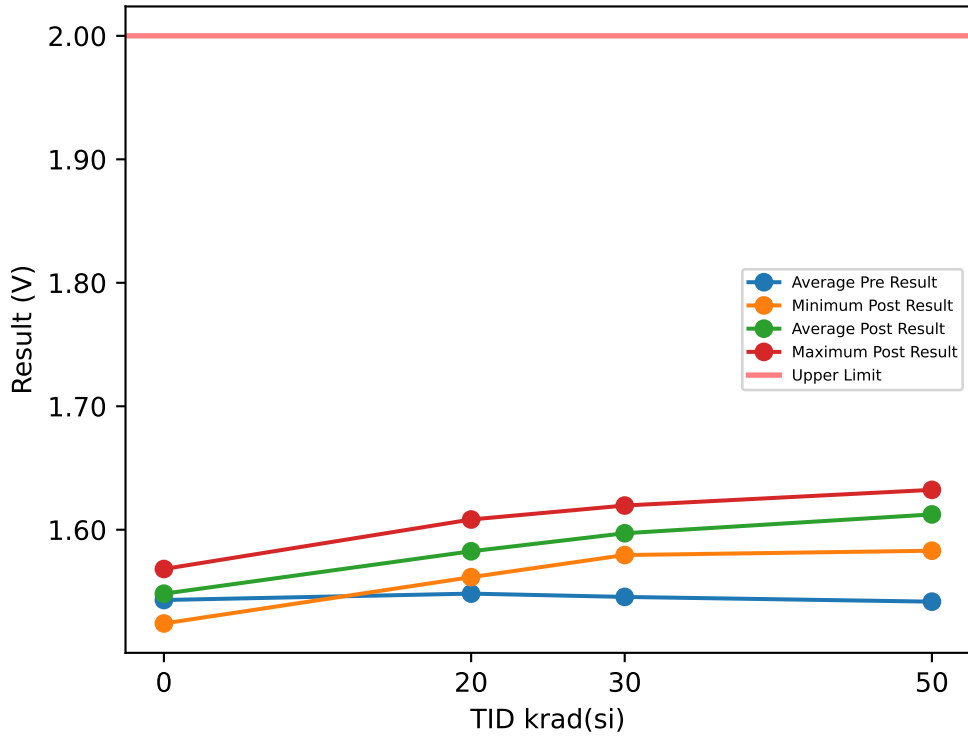| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 1.5721 | 1.6083 | 0.0362 |
| 2 | 20 | Bias | 1.5601 | 1.5998 | 0.0397 |
| 3 | 20 | Bias | 1.556 | 1.5917 | 0.0357 |
| 4 | 20 | Bias | 1.5333 | 1.5652 | 0.0319 |
| 5 | 20 | Bias | 1.5442 | 1.5758 | 0.0316 |
| 6 | 20 | Unbiased | 1.5361 | 1.5722 | 0.0361 |
| 7 | 20 | Unbiased | 1.556 | 1.5882 | 0.0322 |
| 8 | 20 | Unbiased | 1.5357 | 1.5675 | 0.0318 |
| 9 | 20 | Unbiased | 1.5402 | 1.5688 | 0.0286 |
| 10 | 20 | Unbiased | 1.5522 | 1.5882 | 0.036 |
| 11 | 30 | Bias | 1.5561 | 1.6036 | 0.0475 |
| 12 | 30 | Bias | 1.568 | 1.5954 | 0.0274 |
| 13 | 30 | Bias | 1.5322 | 1.6111 | 0.0789 |
| 14 | 30 | Bias | 1.536 | 1.5874 | 0.0514 |
| 15 | 30 | Bias | 1.5555 | 1.5833 | 0.0278 |
| 16 | 30 | Unbiased | 1.5327 | 1.5992 | 0.0665 |
| 17 | 30 | Unbiased | 1.548 | 1.5883 | 0.0403 |
| 18 | 30 | Unbiased | 1.5438 | 1.5957 | 0.0519 |
| 19 | 30 | Unbiased | 1.568 | 1.595 | 0.027 |
| 20 | 30 | Unbiased | 1.5317 | 1.6198 | 0.0881 |
| 21 | 50 | Bias | 1.5521 | 1.5865 | 0.0344 |
| 22 | 50 | Bias | 1.56 | 1.6155 | 0.0555 |
| 23 | 50 | Bias | 1.5407 | 1.624 | 0.0833 |
| 24 | 50 | Bias | 1.5322 | 1.6081 | 0.0759 |
| 25 | 50 | Bias | 1.5441 | 1.6041 | 0.06 |
| 26 | 50 | Unbiased | 1.56 | 1.6362 | 0.0762 |
| 27 | 50 | Unbiased | 1.5322 | 1.6124 | 0.0802 |
| 28 | 50 | Unbiased | 1.5321 | 1.6087 | 0.0766 |
| 29 | 50 | Unbiased | 1.5357 | 1.6237 | 0.088 |
| 30 | 50 | Unbiased | 1.5401 | 1.6163 | 0.0762 |
| 31 | 0 | Correlation | 1.5683 | 1.5683 | 0 |
| 32 | 0 | Correlation | 1.5482 | 1.548 | -0.0002 |
| 33 | 0 | Correlation | 1.5241 | 1.524 | -0.0001 |
| 34 | 0 | Correlation | 1.5356 | 1.5562 | 0.0206 |

## Test Statistics (V)
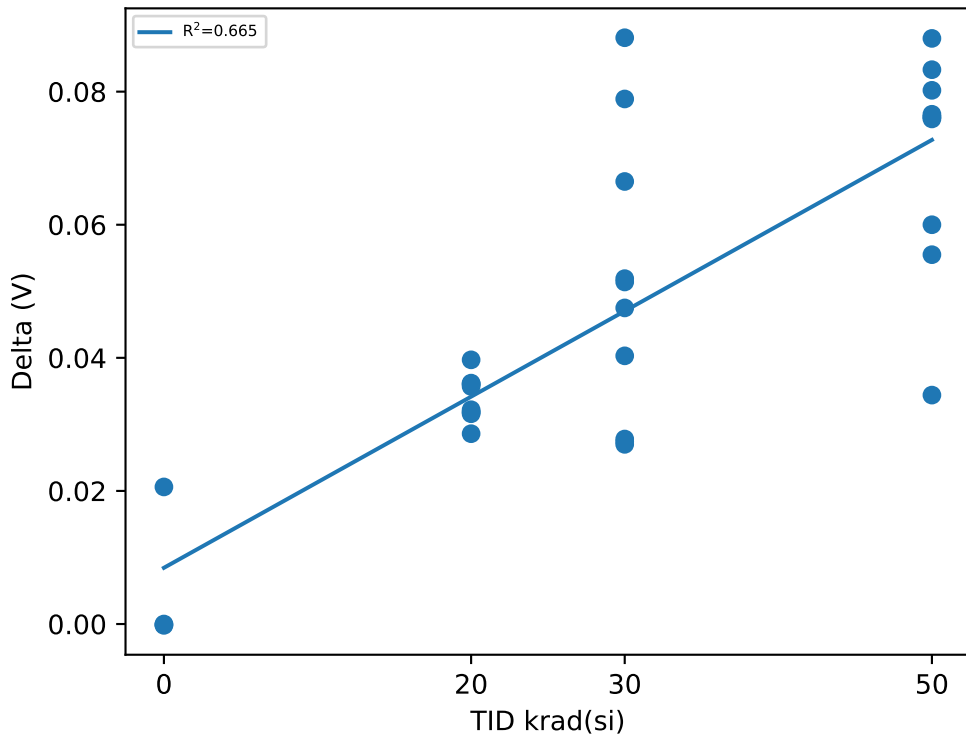
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.5241 | 1.544 | 1.5683 | 0.018927 | 1.524 | 1.5491 | 1.5683 | 0.018711 | -0.0002 | 0.005075 | 0.0206 | 0.01035 |
| 20 | 1.5333 | 1.5486 | 1.5721 | 0.012709 | 1.5652 | 1.5826 | 1.6083 | 0.014823 | 0.0286 | 0.03398 | 0.0397 | 0.0032666 |
| 30 | 1.5317 | 1.5472 | 1.568 | 0.014246 | 1.5833 | 1.5979 | 1.6198 | 0.011171 | 0.027 | 0.05068 | 0.0881 | 0.021584 |
| 50 | 1.5321 | 1.5429 | 1.56 | 0.01096 | 1.5865 | 1.6136 | 1.6362 | 0.013384 | 0.0344 | 0.07063 | 0.088 | 0.016103 |

# Device Test: 15.133 VIN_VALID(_LEVEL|RISE/EN4/1.6//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

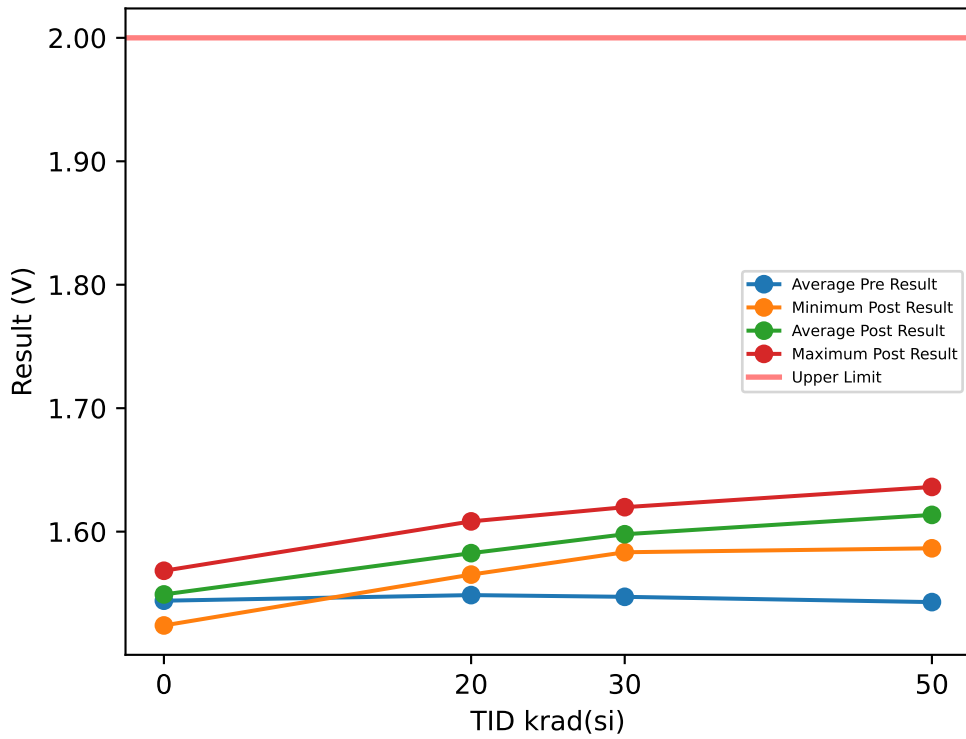| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.5722 | 1.6084 | 0.0362 |
| 2 | 20 | Bias | 1.5601 | 1.5998 | 0.0397 |
| 3 | 20 | Bias | 1.556 | 1.5917 | 0.0357 |
| 4 | 20 | Bias | 1.5335 | 1.5652 | 0.0317 |
| 5 | 20 | Bias | 1.548 | 1.576 | 0.028 |
| 6 | 20 | Unbiased | 1.5398 | 1.576 | 0.0362 |
| 7 | 20 | Unbiased | 1.5598 | 1.5919 | 0.0321 |
| 8 | 20 | Unbiased | 1.5318 | 1.5638 | 0.032 |
| 9 | 20 | Unbiased | 1.5405 | 1.5687 | 0.0282 |
| 10 | 20 | Unbiased | 1.5521 | 1.5844 | 0.0323 |
| 11 | 30 | Bias | 1.556 | 1.5999 | 0.0439 |
| 12 | 30 | Bias | 1.5678 | 1.5955 | 0.0277 |
| 13 | 30 | Bias | 1.5321 | 1.6109 | 0.0788 |
| 14 | 30 | Bias | 1.5321 | 1.5837 | 0.0516 |
| 15 | 30 | Bias | 1.5556 | 1.5794 | 0.0238 |
| 16 | 30 | Unbiased | 1.5328 | 1.599 | 0.0662 |
| 17 | 30 | Unbiased | 1.5442 | 1.5848 | 0.0406 |
| 18 | 30 | Unbiased | 1.5398 | 1.592 | 0.0522 |
| 19 | 30 | Unbiased | 1.568 | 1.5953 | 0.0273 |
| 20 | 30 | Unbiased | 1.5316 | 1.6199 | 0.0883 |
| 21 | 50 | Bias | 1.5521 | 1.5868 | 0.0347 |
| 22 | 50 | Bias | 1.5598 | 1.6156 | 0.0558 |
| 23 | 50 | Bias | 1.5408 | 1.6239 | 0.0831 |
| 24 | 50 | Bias | 1.5321 | 1.6046 | 0.0725 |
| 25 | 50 | Bias | 1.544 | 1.6076 | 0.0636 |
| 26 | 50 | Unbiased | 1.5558 | 1.6362 | 0.0804 |
| 27 | 50 | Unbiased | 1.5286 | 1.6089 | 0.0803 |
| 28 | 50 | Unbiased | 1.5321 | 1.6123 | 0.0802 |
| 29 | 50 | Unbiased | 1.5358 | 1.6236 | 0.0878 |
| 30 | 50 | Unbiased | 1.5402 | 1.6163 | 0.0761 |
| 31 | 0 | Correlation | 1.5682 | 1.5683 | 0.0001 |
| 32 | 0 | Correlation | 1.5482 | 1.5482 | 0 |
| 33 | 0 | Correlation | 1.5242 | 1.5241 | -0.0001 |
| 34 | 0 | Correlation | 1.5396 | 1.5526 | 0.013 |

## Test Statistics (V)
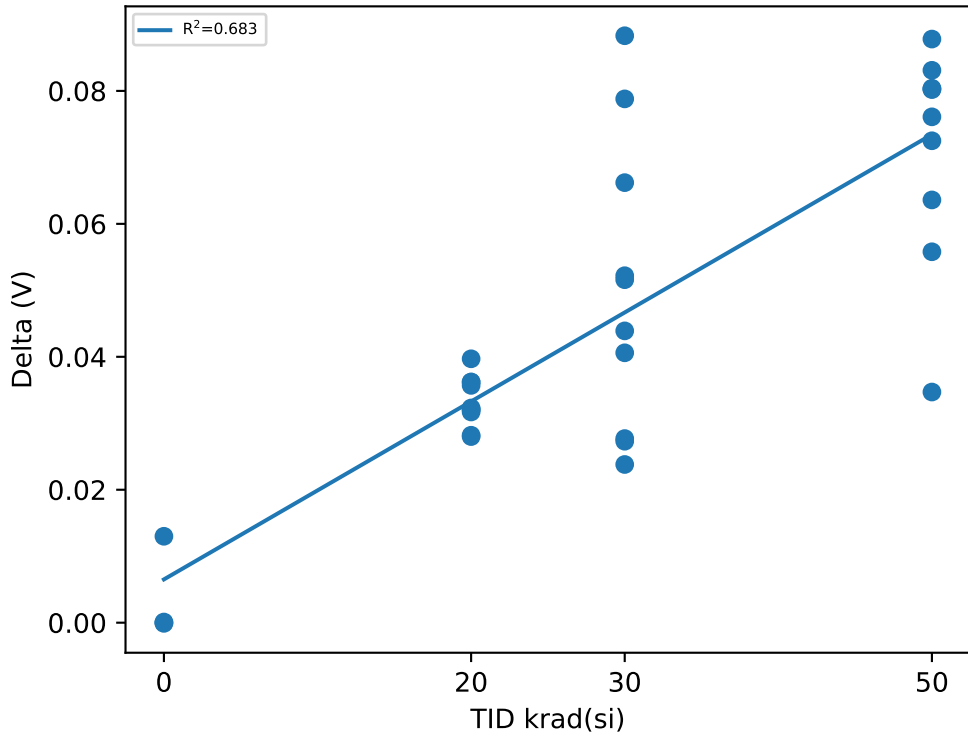
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.5242 | 1.5451 | 1.5682 | 0.018351 | 1.5241 | 1.5483 | 1.5683 | 0.018295 | -0.0001 | 0.00325 | 0.013 | 0.0065005 |
| 20 | 1.5318 | 1.5494 | 1.5722 | 0.013035 | 1.5638 | 1.5826 | 1.6084 | 0.015168 | 0.028 | 0.03321 | 0.0397 | 0.0037156 |
| 30 | 1.5316 | 1.546 | 1.568 | 0.014761 | 1.5794 | 1.596 | 1.6199 | 0.012412 | 0.0238 | 0.05004 | 0.0883 | 0.022088 |
| 50 | 1.5286 | 1.5421 | 1.5598 | 0.010707 | 1.5868 | 1.6136 | 1.6362 | 0.01328 | 0.0347 | 0.07145 | 0.0878 | 0.016048 |

# Device Test: 15.134 VIN_VALID(_LEVEL|RISE/SEQ_DONE/1.6//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

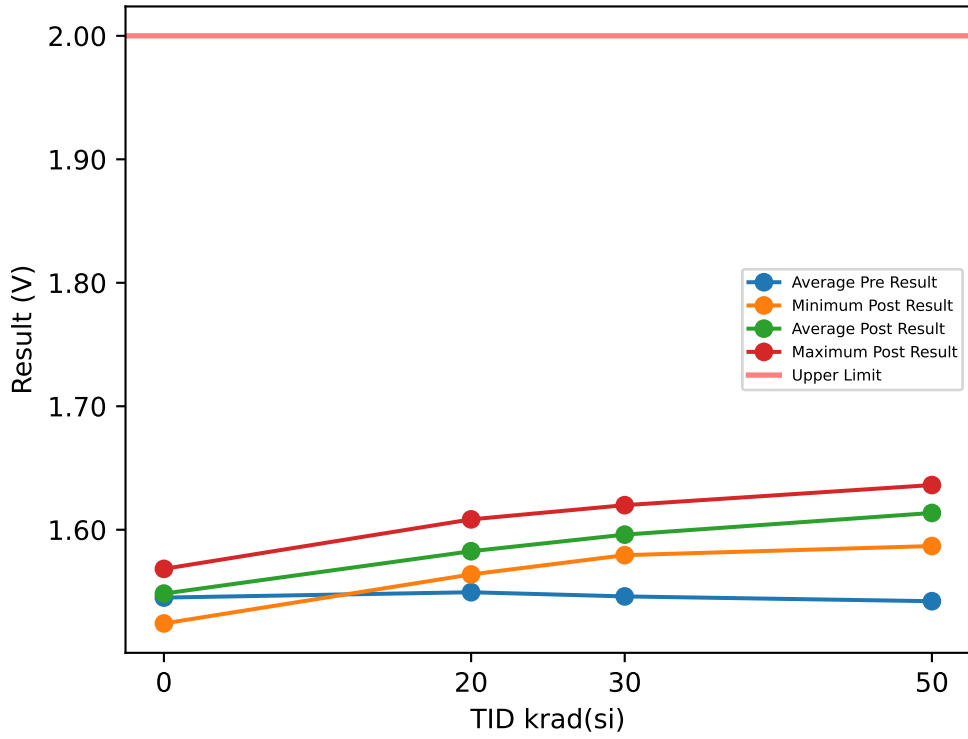| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 1.5685 | 1.6084 | 0.0399 |
| 2 | 20 | Bias | 1.5563 | 1.5962 | 0.0399 |
| 3 | 20 | Bias | 1.5565 | 1.5919 | 0.0354 |
| 4 | 20 | Bias | 1.537 | 1.5651 | 0.0281 |
| 5 | 20 | Bias | 1.5443 | 1.5722 | 0.0279 |
| 6 | 20 | Unbiased | 1.5325 | 1.5685 | 0.036 |
| 7 | 20 | Unbiased | 1.5523 | 1.5844 | 0.0321 |
| 8 | 20 | Unbiased | 1.5243 | 1.5601 | 0.0358 |
| 9 | 20 | Unbiased | 1.5365 | 1.5688 | 0.0323 |
| 10 | 20 | Unbiased | 1.5485 | 1.5844 | 0.0359 |
| 11 | 30 | Bias | 1.5522 | 1.6002 | 0.048 |
| 12 | 30 | Bias | 1.5642 | 1.5919 | 0.0277 |
| 13 | 30 | Bias | 1.5282 | 1.6073 | 0.0791 |
| 14 | 30 | Bias | 1.5321 | 1.5839 | 0.0518 |
| 15 | 30 | Bias | 1.5557 | 1.5794 | 0.0237 |
| 16 | 30 | Unbiased | 1.5363 | 1.5992 | 0.0629 |
| 17 | 30 | Unbiased | 1.5442 | 1.5922 | 0.048 |
| 18 | 30 | Unbiased | 1.5483 | 1.5919 | 0.0436 |
| 19 | 30 | Unbiased | 1.5641 | 1.5992 | 0.0351 |
| 20 | 30 | Unbiased | 1.5318 | 1.62 | 0.0882 |
| 21 | 50 | Bias | 1.5482 | 1.5867 | 0.0385 |
| 22 | 50 | Bias | 1.5561 | 1.6155 | 0.0594 |
| 23 | 50 | Bias | 1.5406 | 1.6239 | 0.0833 |
| 24 | 50 | Bias | 1.5358 | 1.6044 | 0.0686 |
| 25 | 50 | Bias | 1.5478 | 1.6077 | 0.0599 |
| 26 | 50 | Unbiased | 1.556 | 1.6363 | 0.0803 |
| 27 | 50 | Unbiased | 1.5322 | 1.6162 | 0.084 |
| 28 | 50 | Unbiased | 1.5321 | 1.6124 | 0.0803 |
| 29 | 50 | Unbiased | 1.5361 | 1.6198 | 0.0837 |
| 30 | 50 | Unbiased | 1.5401 | 1.6164 | 0.0763 |
| 31 | 0 | Correlation | 1.5682 | 1.5683 | 0.0001 |
| 32 | 0 | Correlation | 1.5445 | 1.5445 | 0 |
| 33 | 0 | Correlation | 1.5162 | 1.5163 | 0.0001 |
| 34 | 0 | Correlation | 1.5398 | 1.5525 | 0.0127 |

## Test Statistics (V)
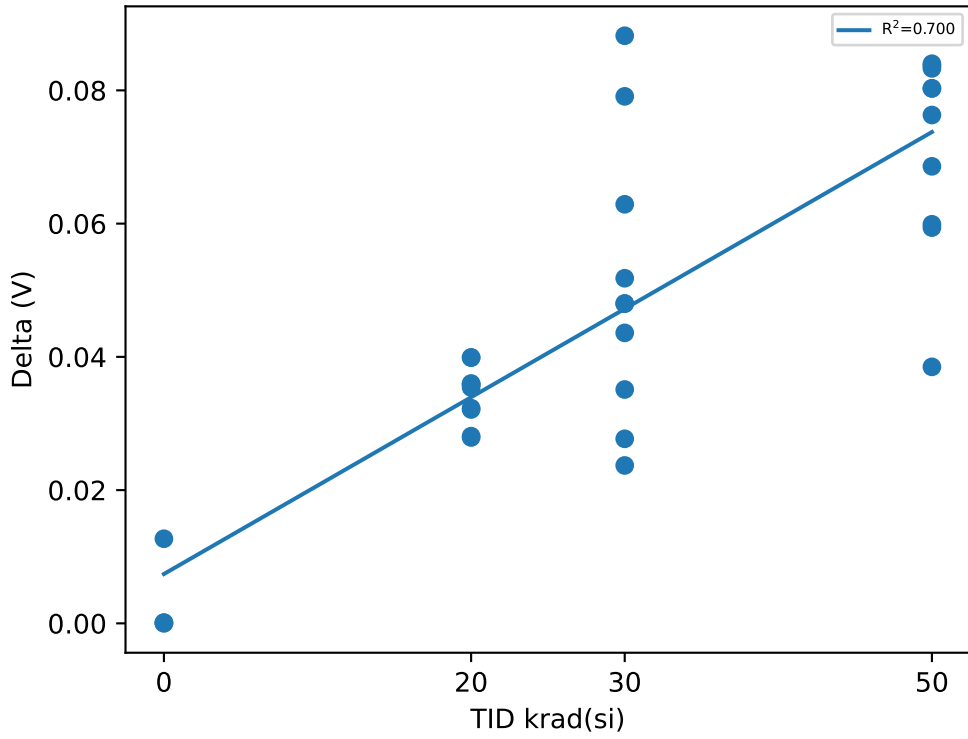
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.5162 | 1.5422 | 1.5682 | 0.021315 | 1.5163 | 1.5454 | 1.5683 | 0.021775 | 0 | 0.003225 | 0.0127 | 0.0063168 |
| 20 | 1.5243 | 1.5457 | 1.5685 | 0.013311 | 1.5601 | 1.58 | 1.6084 | 0.015584 | 0.0279 | 0.03433 | 0.0399 | 0.0042145 |
| 30 | 1.5282 | 1.5457 | 1.5642 | 0.013354 | 1.5794 | 1.5965 | 1.62 | 0.011591 | 0.0237 | 0.05081 | 0.0882 | 0.020894 |
| 50 | 1.5321 | 1.5425 | 1.5561 | 0.0090508 | 1.5867 | 1.6139 | 1.6363 | 0.013002 | 0.0385 | 0.07143 | 0.084 | 0.014909 |

# Device Test: 15.135 VIN_VALID(_LEVEL|RISE/PWRGD/1.6//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

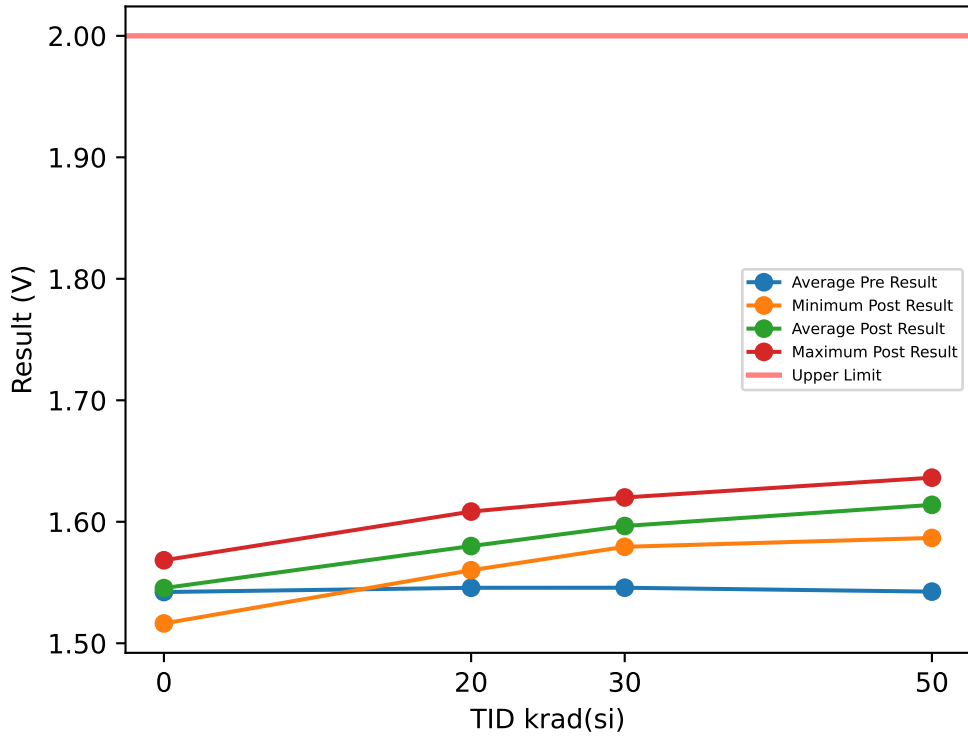| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.5949 | 1.6311 | 0.0362 |
| 2 | 20 | Bias | 1.5828 | 1.6231 | 0.0403 |
| 3 | 20 | Bias | 1.5788 | 1.615 | 0.0362 |
| 4 | 20 | Bias | 1.5587 | 1.5869 | 0.0282 |
| 5 | 20 | Bias | 1.5708 | 1.599 | 0.0282 |
| 6 | 20 | Unbiased | 1.5587 | 1.5949 | 0.0362 |
| 7 | 20 | Unbiased | 1.5788 | 1.611 | 0.0322 |
| 8 | 20 | Unbiased | 1.5506 | 1.5828 | 0.0322 |
| 9 | 20 | Unbiased | 1.5587 | 1.5908 | 0.0321 |
| 10 | 20 | Unbiased | 1.5708 | 1.607 | 0.0362 |
| 11 | 30 | Bias | 1.5747 | 1.6272 | 0.0525 |
| 12 | 30 | Bias | 1.5908 | 1.615 | 0.0242 |
| 13 | 30 | Bias | 1.5587 | 1.6352 | 0.0765 |
| 14 | 30 | Bias | 1.5546 | 1.611 | 0.0564 |
| 15 | 30 | Bias | 1.5788 | 1.6029 | 0.0241 |
| 16 | 30 | Unbiased | 1.5546 | 1.6231 | 0.0685 |
| 17 | 30 | Unbiased | 1.5667 | 1.611 | 0.0443 |
| 18 | 30 | Unbiased | 1.5667 | 1.615 | 0.0483 |
| 19 | 30 | Unbiased | 1.5908 | 1.6231 | 0.0323 |
| 20 | 30 | Unbiased | 1.5546 | 1.6432 | 0.0886 |
| 21 | 50 | Bias | 1.5708 | 1.611 | 0.0402 |
| 22 | 50 | Bias | 1.5828 | 1.6392 | 0.0564 |
| 23 | 50 | Bias | 1.5626 | 1.6472 | 0.0846 |
| 24 | 50 | Bias | 1.5587 | 1.6311 | 0.0724 |
| 25 | 50 | Bias | 1.5708 | 1.6311 | 0.0603 |
| 26 | 50 | Unbiased | 1.5747 | 1.6554 | 0.0807 |
| 27 | 50 | Unbiased | 1.5587 | 1.6392 | 0.0805 |
| 28 | 50 | Unbiased | 1.5587 | 1.6392 | 0.0805 |
| 29 | 50 | Unbiased | 1.5587 | 1.6472 | 0.0885 |
| 30 | 50 | Unbiased | 1.5667 | 1.6392 | 0.0725 |
| 31 | 0 | Correlation | 1.5949 | 1.5949 | 0 |
| 32 | 0 | Correlation | 1.5667 | 1.5667 | 0 |
| 33 | 0 | Correlation | 1.5465 | 1.5426 | -0.0039 |
| 34 | 0 | Correlation | 1.5626 | 1.5788 | 0.0162 |

## Test Statistics (V)
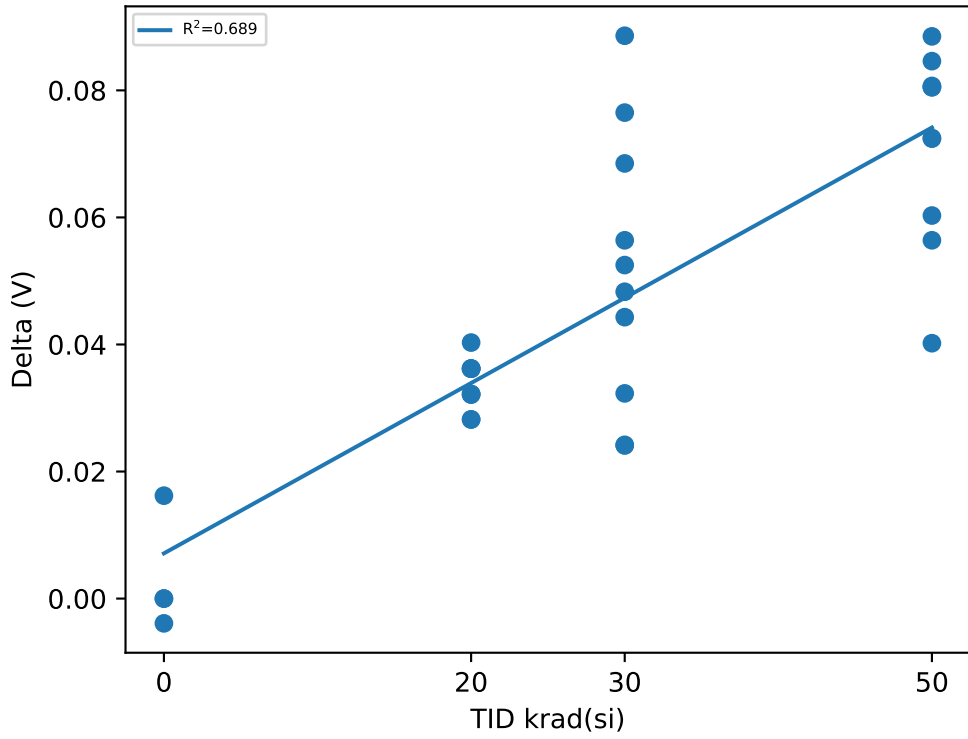
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.5465 | 1.5677 | 1.5949 | 0.020135 | 1.5426 | 1.5707 | 1.5949 | 0.022037 | -0.0039 | 0.003075 | 0.0162 | 0.0089411 |
| 20 | 1.5506 | 1.5704 | 1.5949 | 0.013736 | 1.5828 | 1.6042 | 1.6311 | 0.015993 | 0.0282 | 0.0338 | 0.0403 | 0.0038876 |
| 30 | 1.5546 | 1.5691 | 1.5908 | 0.014211 | 1.6029 | 1.6207 | 1.6432 | 0.012203 | 0.0241 | 0.05157 | 0.0886 | 0.021711 |
| 50 | 1.5587 | 1.5663 | 1.5828 | 0.0083546 | 1.611 | 1.638 | 1.6554 | 0.012028 | 0.0402 | 0.07166 | 0.0885 | 0.015063 |

# Device Test: 15.136 VIN_VALID(_LEVEL|RISE/EN1/7//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

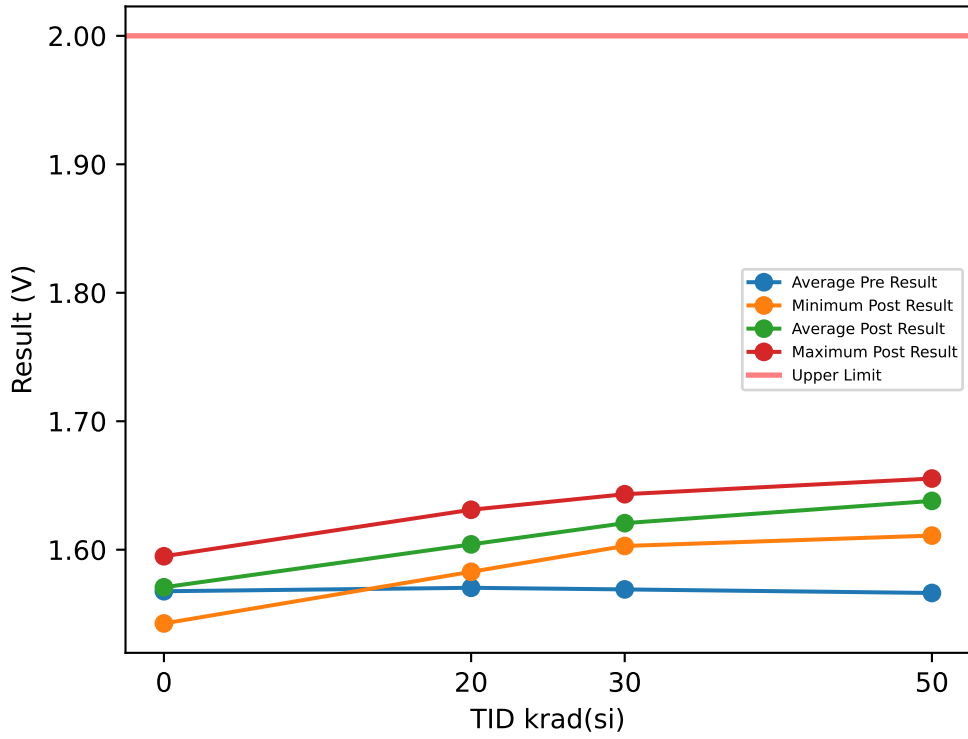| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.554 | 1.5904 | 0.0364 |
| 2 | 20 | Bias | 1.5416 | 1.5818 | 0.0402 |
| 3 | 20 | Bias | 1.5335 | 1.5697 | 0.0362 |
| 4 | 20 | Bias | 1.5258 | 1.558 | 0.0322 |
| 5 | 20 | Bias | 1.5296 | 1.5613 | 0.0317 |
| 6 | 20 | Unbiased | 1.5178 | 1.5543 | 0.0365 |
| 7 | 20 | Unbiased | 1.5381 | 1.574 | 0.0359 |
| 8 | 20 | Unbiased | 1.5135 | 1.5458 | 0.0323 |
| 9 | 20 | Unbiased | 1.5295 | 1.5617 | 0.0322 |
| 10 | 20 | Unbiased | 1.5413 | 1.574 | 0.0327 |
| 11 | 30 | Bias | 1.5333 | 1.5894 | 0.0561 |
| 12 | 30 | Bias | 1.5452 | 1.5737 | 0.0285 |
| 13 | 30 | Bias | 1.521 | 1.5888 | 0.0678 |
| 14 | 30 | Bias | 1.5211 | 1.5732 | 0.0521 |
| 15 | 30 | Bias | 1.548 | 1.5685 | 0.0205 |
| 16 | 30 | Unbiased | 1.5106 | 1.5919 | 0.0813 |
| 17 | 30 | Unbiased | 1.5336 | 1.5667 | 0.0331 |
| 18 | 30 | Unbiased | 1.525 | 1.5812 | 0.0562 |
| 19 | 30 | Unbiased | 1.557 | 1.5805 | 0.0235 |
| 20 | 30 | Unbiased | 1.5131 | 1.6089 | 0.0958 |
| 21 | 50 | Bias | 1.5333 | 1.5684 | 0.0351 |
| 22 | 50 | Bias | 1.5452 | 1.597 | 0.0518 |
| 23 | 50 | Bias | 1.5336 | 1.6093 | 0.0757 |
| 24 | 50 | Bias | 1.5212 | 1.6013 | 0.0801 |
| 25 | 50 | Bias | 1.5296 | 1.5894 | 0.0598 |
| 26 | 50 | Unbiased | 1.5408 | 1.6176 | 0.0768 |
| 27 | 50 | Unbiased | 1.5177 | 1.6019 | 0.0842 |
| 28 | 50 | Unbiased | 1.5285 | 1.6052 | 0.0767 |
| 29 | 50 | Unbiased | 1.5168 | 1.6053 | 0.0885 |
| 30 | 50 | Unbiased | 1.5181 | 1.5909 | 0.0728 |
| 31 | 0 | Correlation | 1.5612 | 1.5612 | 0 |
| 32 | 0 | Correlation | 1.5336 | 1.5336 | 0 |
| 33 | 0 | Correlation | 1.505 | 1.5051 | 0.0001 |
| 34 | 0 | Correlation | 1.5172 | 1.5418 | 0.0246 |

## Test Statistics (V)
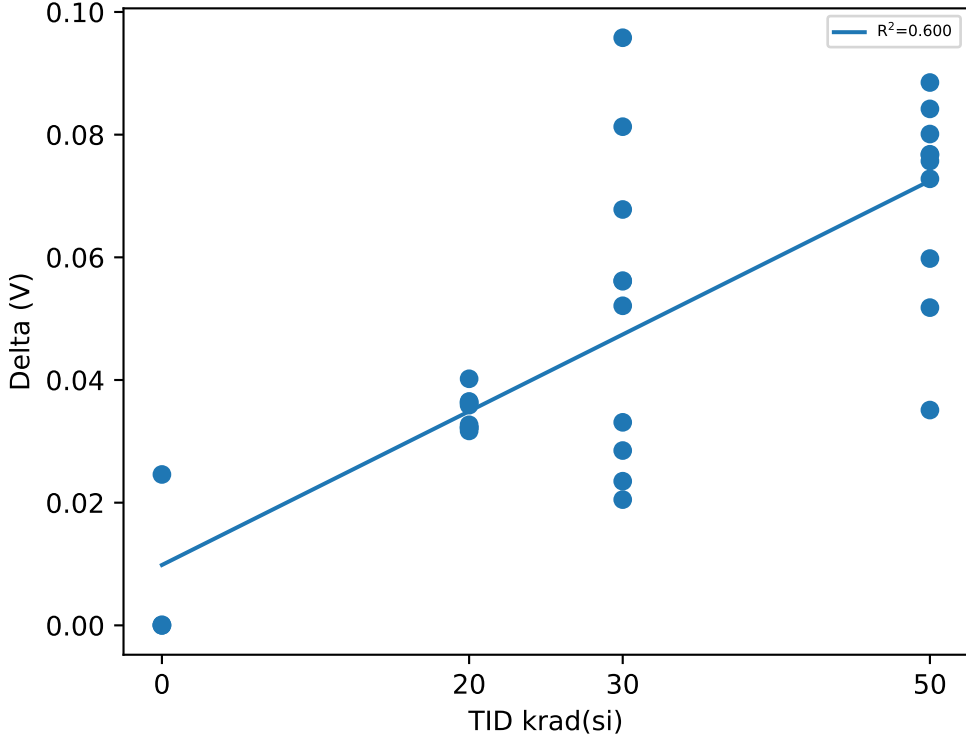
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.505 | 1.5292 | 1.5612 | 0.02431 | 1.5051 | 1.5354 | 1.5612 | 0.023295 | 0 | 0.006175 | 0.0246 | 0.012283 |
| 20 | 1.5135 | 1.5325 | 1.554 | 0.011992 | 1.5458 | 1.5671 | 1.5904 | 0.013433 | 0.0317 | 0.03463 | 0.0402 | 0.0028143 |
| 30 | 1.5106 | 1.5308 | 1.557 | 0.015452 | 1.5667 | 1.5823 | 1.6089 | 0.012856 | 0.0205 | 0.05149 | 0.0958 | 0.025325 |
| 50 | 1.5168 | 1.5285 | 1.5452 | 0.0099745 | 1.5684 | 1.5986 | 1.6176 | 0.013502 | 0.0351 | 0.07015 | 0.0885 | 0.016433 |

# Device Test: 15.137 VIN_VALID(_LEVEL|RISE/EN2/7//0/0/0/@VIN_VALID )

## TID vs Result Stats



Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Upper Limit

## TID vs Post - Pre Exposure Delta



R²=0.643

## Test Results (Upper Limit = 2.0 (V))

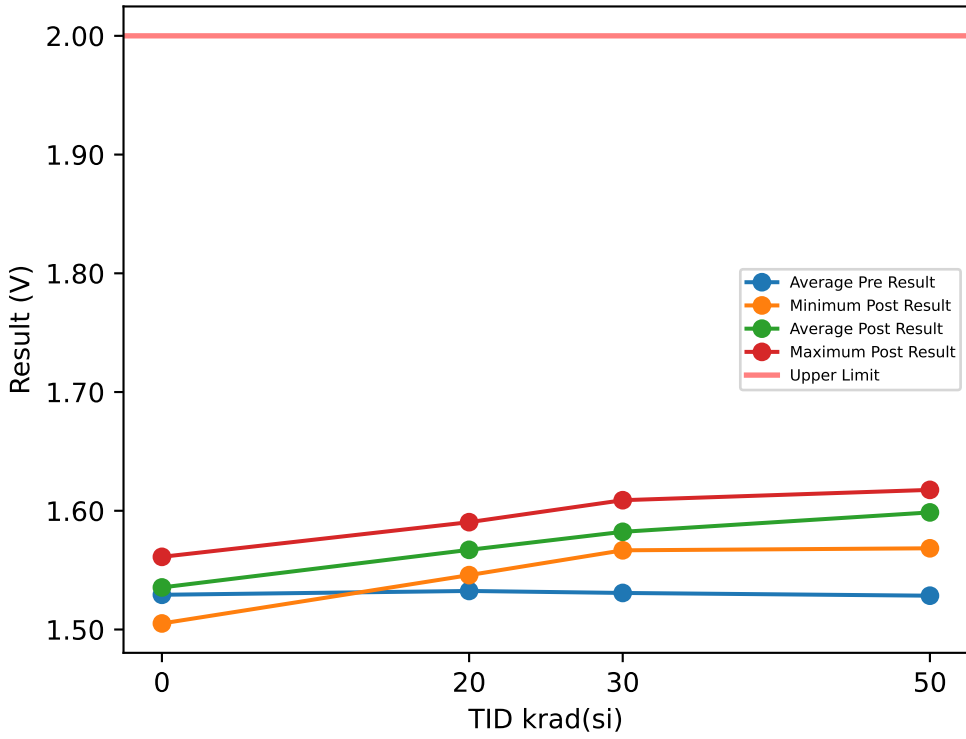| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.554 | 1.5941 | 0.0401 |
| 2 | 20 | Bias | 1.5452 | 1.5818 | 0.0366 |
| 3 | 20 | Bias | 1.5406 | 1.5768 | 0.0362 |
| 4 | 20 | Bias | 1.511 | 1.5428 | 0.0318 |
| 5 | 20 | Bias | 1.5257 | 1.5577 | 0.032 |
| 6 | 20 | Unbiased | 1.5215 | 1.558 | 0.0365 |
| 7 | 20 | Unbiased | 1.5381 | 1.574 | 0.0359 |
| 8 | 20 | Unbiased | 1.5172 | 1.5493 | 0.0321 |
| 9 | 20 | Unbiased | 1.5183 | 1.5503 | 0.032 |
| 10 | 20 | Unbiased | 1.5302 | 1.5665 | 0.0363 |
| 11 | 30 | Bias | 1.537 | 1.5822 | 0.0452 |
| 12 | 30 | Bias | 1.5487 | 1.5774 | 0.0287 |
| 13 | 30 | Bias | 1.5137 | 1.5923 | 0.0786 |
| 14 | 30 | Bias | 1.5137 | 1.5697 | 0.056 |
| 15 | 30 | Bias | 1.5371 | 1.5614 | 0.0243 |
| 16 | 30 | Unbiased | 1.5143 | 1.5812 | 0.0669 |
| 17 | 30 | Unbiased | 1.5298 | 1.5705 | 0.0407 |
| 18 | 30 | Unbiased | 1.5248 | 1.5778 | 0.053 |
| 19 | 30 | Unbiased | 1.55 | 1.5769 | 0.0269 |
| 20 | 30 | Unbiased | 1.513 | 1.6053 | 0.0923 |
| 21 | 50 | Bias | 1.5298 | 1.565 | 0.0352 |
| 22 | 50 | Bias | 1.5415 | 1.597 | 0.0555 |
| 23 | 50 | Bias | 1.5226 | 1.6056 | 0.083 |
| 24 | 50 | Bias | 1.5138 | 1.5867 | 0.0729 |
| 25 | 50 | Bias | 1.5257 | 1.5857 | 0.06 |
| 26 | 50 | Unbiased | 1.5372 | 1.6139 | 0.0767 |
| 27 | 50 | Unbiased | 1.5101 | 1.5946 | 0.0845 |
| 28 | 50 | Unbiased | 1.514 | 1.5903 | 0.0763 |
| 29 | 50 | Unbiased | 1.5171 | 1.6054 | 0.0883 |
| 30 | 50 | Unbiased | 1.522 | 1.5983 | 0.0763 |
| 31 | 0 | Correlation | 1.5465 | 1.5502 | 0.0037 |
| 32 | 0 | Correlation | 1.5262 | 1.5261 | -0.0001 |
| 33 | 0 | Correlation | 1.505 | 1.5051 | 0.0001 |
| 34 | 0 | Correlation | 1.5172 | 1.5382 | 0.021 |

## Test Statistics (V)
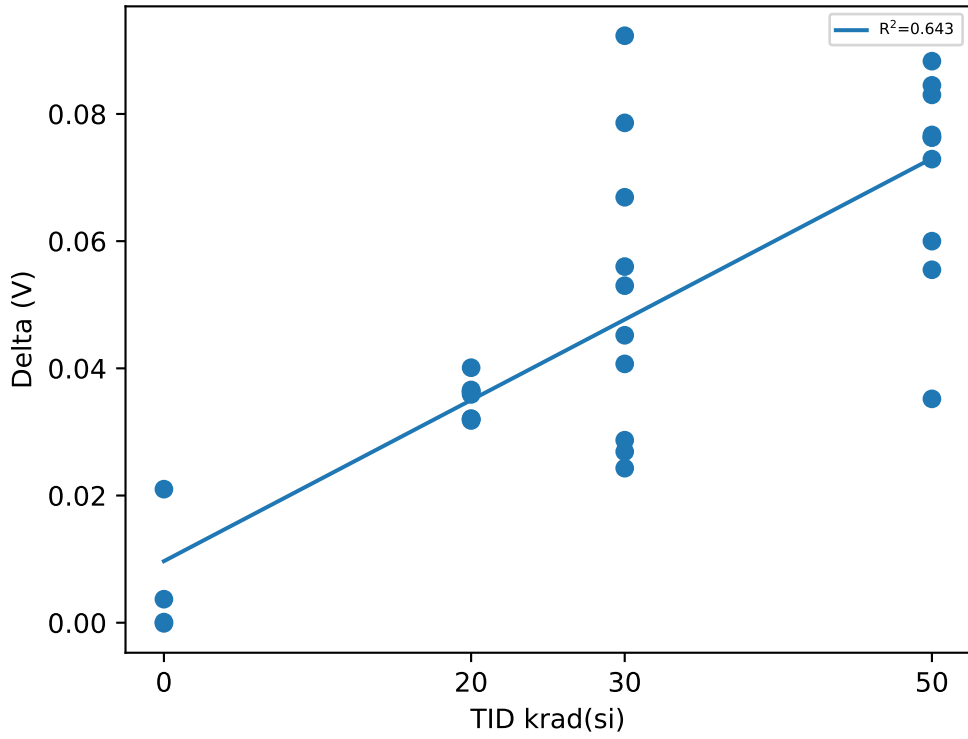
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.505 | 1.5237 | 1.5465 | 0.017493 | 1.5051 | 1.5299 | 1.5502 | 0.019239 | -0.0001 | 0.006175 | 0.021 | 0.010036 |
| 20 | 1.511 | 1.5302 | 1.554 | 0.013893 | 1.5428 | 1.5651 | 1.5941 | 0.016361 | 0.0318 | 0.03495 | 0.0401 | 0.0028163 |
| 30 | 1.513 | 1.5282 | 1.55 | 0.014572 | 1.5614 | 1.5795 | 1.6053 | 0.012285 | 0.0243 | 0.05126 | 0.0923 | 0.022802 |
| 50 | 1.5101 | 1.5234 | 1.5415 | 0.010349 | 1.565 | 1.5942 | 1.6139 | 0.0136 | 0.0352 | 0.07087 | 0.0883 | 0.016195 |

# Device Test: 15.138 VIN_VALID(_LEVEL|RISE/EN3/7//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

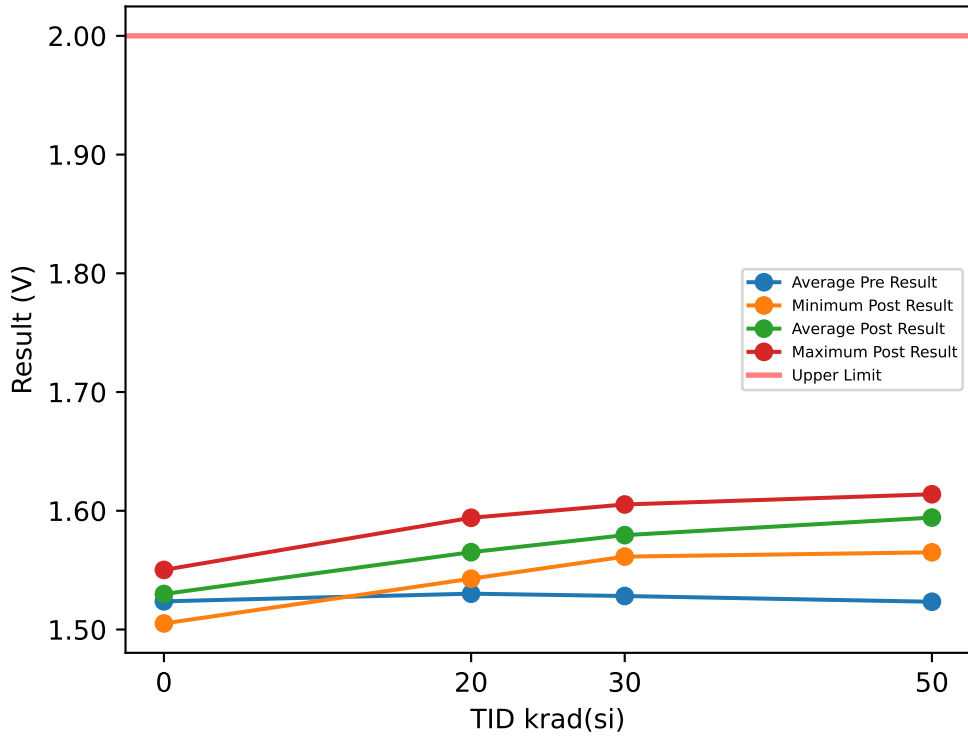| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.5538 | 1.5939 | 0.0401 |
| 2 | 20 | Bias | 1.5453 | 1.5818 | 0.0365 |
| 3 | 20 | Bias | 1.5371 | 1.5771 | 0.04 |
| 4 | 20 | Bias | 1.5146 | 1.5428 | 0.0282 |
| 5 | 20 | Bias | 1.5258 | 1.5577 | 0.0319 |
| 6 | 20 | Unbiased | 1.5178 | 1.5542 | 0.0364 |
| 7 | 20 | Unbiased | 1.5382 | 1.5703 | 0.0321 |
| 8 | 20 | Unbiased | 1.5173 | 1.5493 | 0.032 |
| 9 | 20 | Unbiased | 1.522 | 1.5503 | 0.0283 |
| 10 | 20 | Unbiased | 1.5338 | 1.5666 | 0.0328 |
| 11 | 30 | Bias | 1.5371 | 1.582 | 0.0449 |
| 12 | 30 | Bias | 1.5487 | 1.5808 | 0.0321 |
| 13 | 30 | Bias | 1.5137 | 1.5923 | 0.0786 |
| 14 | 30 | Bias | 1.5173 | 1.566 | 0.0487 |
| 15 | 30 | Bias | 1.537 | 1.565 | 0.028 |
| 16 | 30 | Unbiased | 1.5142 | 1.5812 | 0.067 |
| 17 | 30 | Unbiased | 1.5298 | 1.5704 | 0.0406 |
| 18 | 30 | Unbiased | 1.5248 | 1.5777 | 0.0529 |
| 19 | 30 | Unbiased | 1.55 | 1.5768 | 0.0268 |
| 20 | 30 | Unbiased | 1.513 | 1.6053 | 0.0923 |
| 21 | 50 | Bias | 1.5333 | 1.5685 | 0.0352 |
| 22 | 50 | Bias | 1.5415 | 1.6007 | 0.0592 |
| 23 | 50 | Bias | 1.5225 | 1.6091 | 0.0866 |
| 24 | 50 | Bias | 1.5175 | 1.5867 | 0.0692 |
| 25 | 50 | Bias | 1.5256 | 1.5858 | 0.0602 |
| 26 | 50 | Unbiased | 1.5411 | 1.6177 | 0.0766 |
| 27 | 50 | Unbiased | 1.5138 | 1.5944 | 0.0806 |
| 28 | 50 | Unbiased | 1.5138 | 1.5904 | 0.0766 |
| 29 | 50 | Unbiased | 1.517 | 1.6053 | 0.0883 |
| 30 | 50 | Unbiased | 1.522 | 1.5984 | 0.0764 |
| 31 | 0 | Correlation | 1.5503 | 1.5503 | 0 |
| 32 | 0 | Correlation | 1.5301 | 1.53 | -0.0001 |
| 33 | 0 | Correlation | 1.5051 | 1.505 | -0.0001 |
| 34 | 0 | Correlation | 1.5208 | 1.5381 | 0.0173 |

## Test Statistics (V)
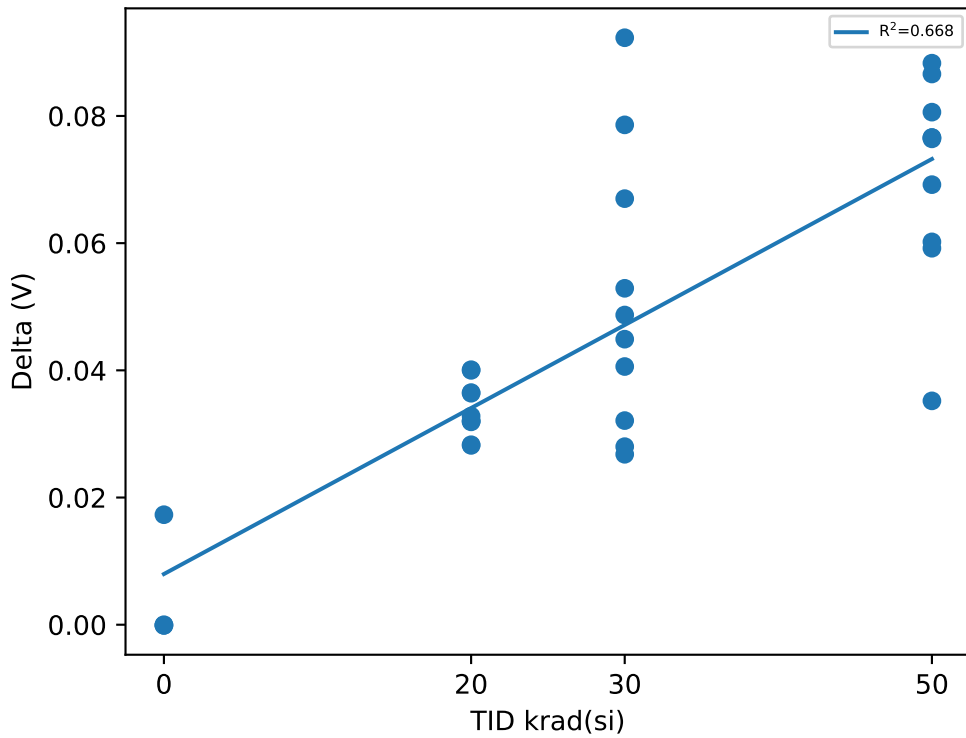
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.5051 | 1.5266 | 1.5503 | 0.018884 | 1.505 | 1.5309 | 1.5503 | 0.019147 | -0.0001 | 0.004275 | 0.0173 | 0.0086835 |
| 20 | 1.5146 | 1.5306 | 1.5538 | 0.013158 | 1.5428 | 1.5644 | 1.5939 | 0.016385 | 0.0282 | 0.03383 | 0.0401 | 0.0042755 |
| 30 | 1.513 | 1.5286 | 1.55 | 0.014225 | 1.565 | 1.5797 | 1.6053 | 0.012136 | 0.0268 | 0.05119 | 0.0923 | 0.021983 |
| 50 | 1.5138 | 1.5248 | 1.5415 | 0.010471 | 1.5685 | 1.5957 | 1.6177 | 0.013891 | 0.0352 | 0.07089 | 0.0883 | 0.015872 |

# Device Test: 15.139 VIN_VALID(_LEVEL|RISE/EN4/7//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

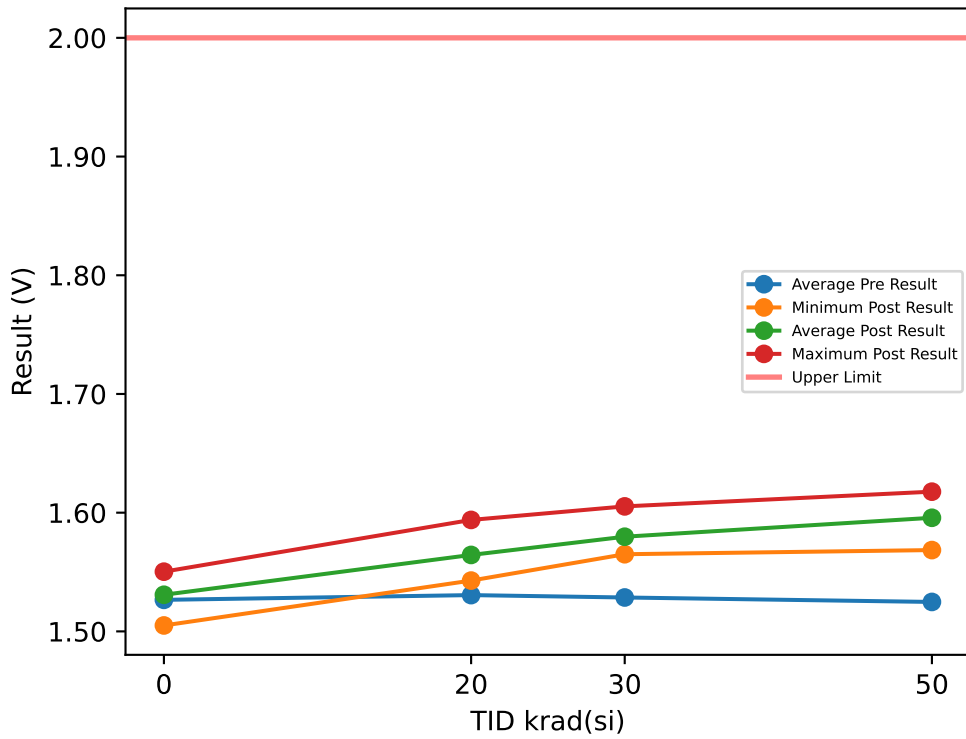| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.554 | 1.5939 | 0.0399 |
| 2 | 20 | Bias | 1.5417 | 1.5818 | 0.0401 |
| 3 | 20 | Bias | 1.5371 | 1.5735 | 0.0364 |
| 4 | 20 | Bias | 1.511 | 1.5428 | 0.0318 |
| 5 | 20 | Bias | 1.5295 | 1.5577 | 0.0282 |
| 6 | 20 | Unbiased | 1.5215 | 1.558 | 0.0365 |
| 7 | 20 | Unbiased | 1.5382 | 1.574 | 0.0358 |
| 8 | 20 | Unbiased | 1.5172 | 1.5493 | 0.0321 |
| 9 | 20 | Unbiased | 1.5182 | 1.5503 | 0.0321 |
| 10 | 20 | Unbiased | 1.5302 | 1.5666 | 0.0364 |
| 11 | 30 | Bias | 1.5372 | 1.582 | 0.0448 |
| 12 | 30 | Bias | 1.5487 | 1.5809 | 0.0322 |
| 13 | 30 | Bias | 1.5137 | 1.5924 | 0.0787 |
| 14 | 30 | Bias | 1.5136 | 1.566 | 0.0524 |
| 15 | 30 | Bias | 1.5372 | 1.5614 | 0.0242 |
| 16 | 30 | Unbiased | 1.5143 | 1.5848 | 0.0705 |
| 17 | 30 | Unbiased | 1.526 | 1.5704 | 0.0444 |
| 18 | 30 | Unbiased | 1.5251 | 1.5742 | 0.0491 |
| 19 | 30 | Unbiased | 1.5498 | 1.5768 | 0.027 |
| 20 | 30 | Unbiased | 1.513 | 1.6053 | 0.0923 |
| 21 | 50 | Bias | 1.5332 | 1.5687 | 0.0355 |
| 22 | 50 | Bias | 1.5416 | 1.597 | 0.0554 |
| 23 | 50 | Bias | 1.5186 | 1.6055 | 0.0869 |
| 24 | 50 | Bias | 1.5176 | 1.5867 | 0.0691 |
| 25 | 50 | Bias | 1.5293 | 1.5894 | 0.0601 |
| 26 | 50 | Unbiased | 1.5408 | 1.6177 | 0.0769 |
| 27 | 50 | Unbiased | 1.5101 | 1.5908 | 0.0807 |
| 28 | 50 | Unbiased | 1.5138 | 1.5903 | 0.0765 |
| 29 | 50 | Unbiased | 1.5167 | 1.6053 | 0.0886 |
| 30 | 50 | Unbiased | 1.5221 | 1.5986 | 0.0765 |
| 31 | 0 | Correlation | 1.5466 | 1.5502 | 0.0036 |
| 32 | 0 | Correlation | 1.53 | 1.5301 | 0.0001 |
| 33 | 0 | Correlation | 1.5051 | 1.505 | -0.0001 |
| 34 | 0 | Correlation | 1.5208 | 1.5343 | 0.0135 |

## Test Statistics (V)
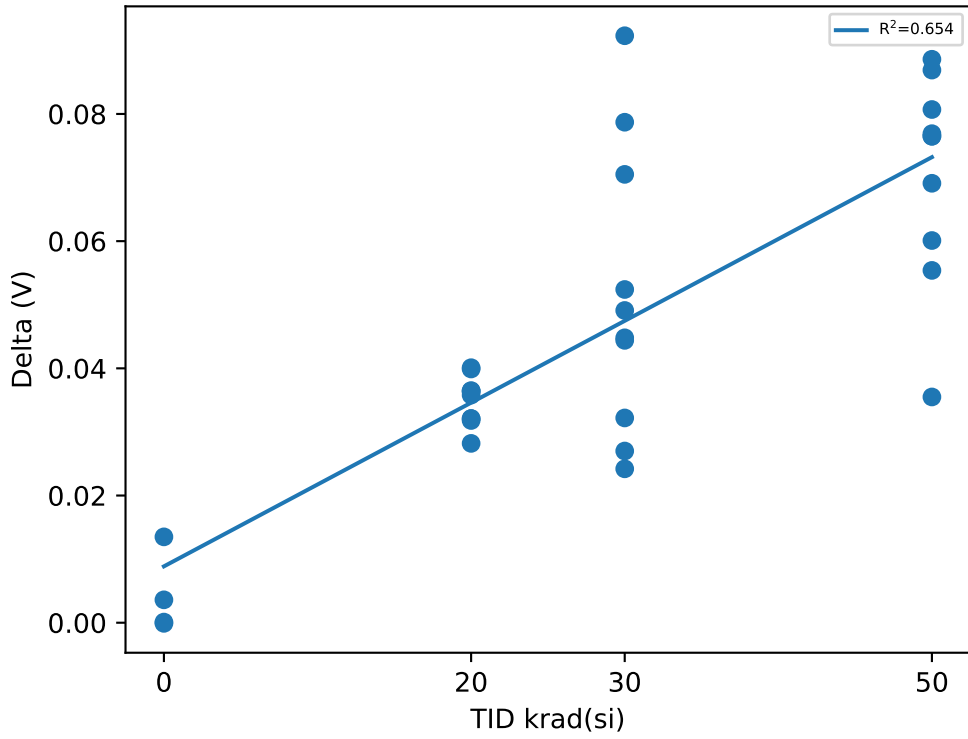
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.5051 | 1.5256 | 1.5466 | 0.017356 | 1.505 | 1.5299 | 1.5502 | 0.018722 | -0.0001 | 0.004275 | 0.0135 | 0.0063804 |
| 20 | 1.511 | 1.5299 | 1.554 | 0.013195 | 1.5428 | 1.5648 | 1.5939 | 0.016092 | 0.0282 | 0.03493 | 0.0401 | 0.0038018 |
| 30 | 1.513 | 1.5279 | 1.5498 | 0.014567 | 1.5614 | 1.5794 | 1.6053 | 0.012894 | 0.0242 | 0.05156 | 0.0923 | 0.022572 |
| 50 | 1.5101 | 1.5244 | 1.5416 | 0.011193 | 1.5687 | 1.595 | 1.6177 | 0.013251 | 0.0355 | 0.07062 | 0.0886 | 0.01625 |

# Device Test: 15.14  ILKG_SENSE(_LEAKAGE|SENSE2/SENSE2//3/0/0/0/@ILKG_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

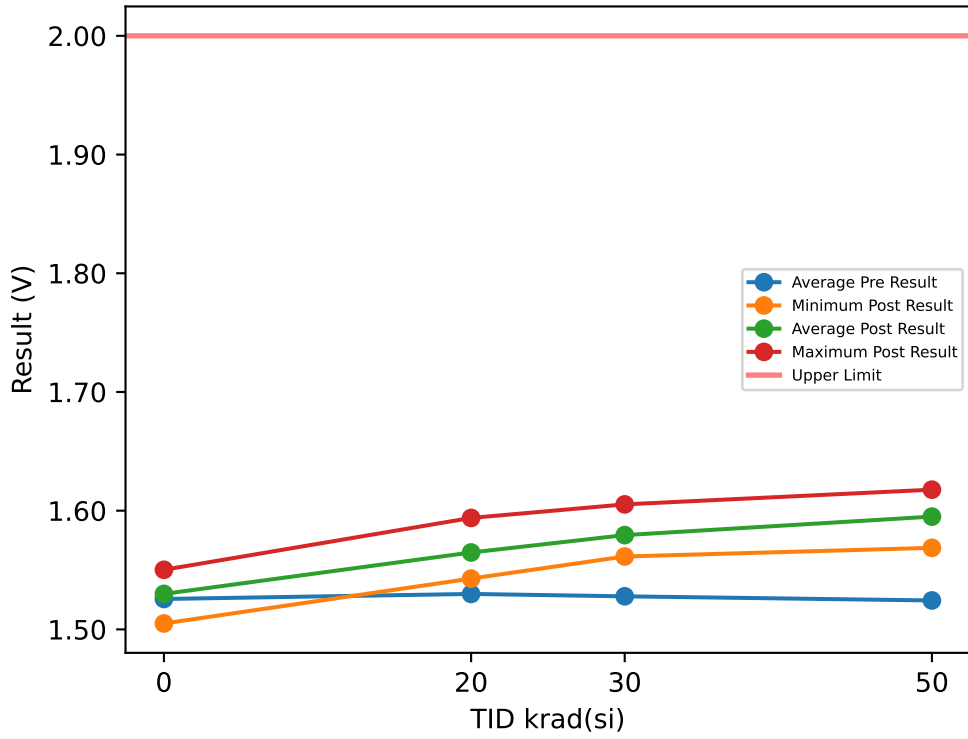| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.3996 | 0.3809 | -0.0187 |
| 2 | 20 | Bias | 0.4308 | 0.3715 | -0.0593 |
| 3 | 20 | Bias | 0.3653 | 0.3965 | 0.0312 |
| 4 | 20 | Bias | 0.3715 | 0.5338 | 0.1623 |
| 5 | 20 | Bias | 0.3871 | 0.4651 | 0.078 |
| 6 | 20 | Unbiased | 0.4214 | 0.3559 | -0.0655 |
| 7 | 20 | Unbiased | 0.256 | 0.4433 | 0.1873 |
| 8 | 20 | Unbiased | 0.4339 | 0.2872 | -0.1467 |
| 9 | 20 | Unbiased | 0.2123 | 0.4058 | 0.1935 |
| 10 | 20 | Unbiased | 0.4246 | 0.3184 | -0.1062 |
| 11 | 30 | Bias | 0.3497 | 0.2222 | -0.1275 |
| 12 | 30 | Bias | 0.359 | 0.2409 | -0.1181 |
| 13 | 30 | Bias | 0.4589 | 0.2035 | -0.2554 |
| 14 | 30 | Bias | 0.359 | 0.2378 | -0.1212 |
| 15 | 30 | Bias | 0.2904 | 0.2347 | -0.0557 |
| 16 | 30 | Unbiased | 0.3559 | 0.1941 | -0.1618 |
| 17 | 30 | Unbiased | 0.487 | 0.2347 | -0.2523 |
| 18 | 30 | Unbiased | 0.4839 | 0.1972 | -0.2867 |
| 19 | 30 | Unbiased | 0.4558 | 0.2503 | -0.2055 |
| 20 | 30 | Unbiased | 0.3684 | 0.1753 | -0.1931 |
| 21 | 50 | Bias | 0.281 | 0.1348 | -0.1462 |
| 22 | 50 | Bias | 0.4495 | 0.2253 | -0.2242 |
| 23 | 50 | Bias | 0.4246 | 0.1847 | -0.2399 |
| 24 | 50 | Bias | 0.3216 | 0.2659 | -0.0557 |
| 25 | 50 | Bias | 0.2342 | 0.281 | 0.0468 |
| 26 | 50 | Unbiased | 0.3028 | 0.5151 | 0.2123 |
| 27 | 50 | Unbiased | 0.2997 | 0.4308 | 0.1311 |
| 28 | 50 | Unbiased | 0.3902 | 0.3278 | -0.0624 |
| 29 | 50 | Unbiased | 0.3559 | 0.3091 | -0.0468 |
| 30 | 50 | Unbiased | 0.2591 | 0.4152 | 0.1561 |
| 31 | 0 | Correlation | 0.3746 | 0.384 | 0.0094 |
| 32 | 0 | Correlation | 0.4277 | 0.5463 | 0.1186 |
| 33 | 0 | Correlation | 0.3902 | 0.2685 | -0.1217 |
| 34 | 0 | Correlation | 0.3247 | 0.2061 | -0.1186 |

## Test Statistics (nA)
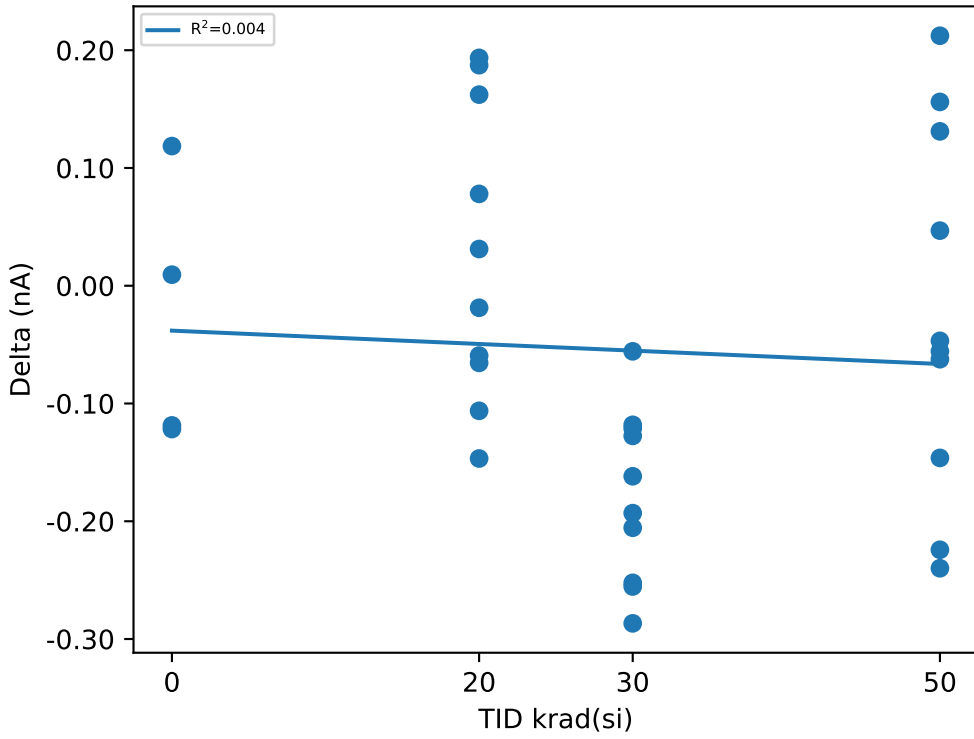
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.3247 | 0.3793 | 0.4277 | 0.04268 | 0.2061 | 0.35123 | 0.5463 | 0.14948 | -0.1217 | -0.028075 | 0.1186 | 0.11529 |
| 20 | 0.2123 | 0.37025 | 0.4339 | 0.076348 | 0.2872 | 0.39584 | 0.5338 | 0.071796 | -0.1467 | 0.02559 | 0.1935 | 0.12487 |
| 30 | 0.2904 | 0.3968 | 0.487 | 0.068261 | 0.1753 | 0.21907 | 0.2503 | 0.024858 | -0.2867 | -0.17773 | -0.0557 | 0.073707 |
| 50 | 0.2342 | 0.33186 | 0.4495 | 0.071355 | 0.1348 | 0.30897 | 0.5151 | 0.11756 | -0.2399 | -0.02289 | 0.2123 | 0.15704 |

# Device Test: 15.140 VIN_VALID(_LEVEL|RISE/SEQ_DONE/7//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



R²=0.700

## Test Results (Upper Limit = 2.0 (V))

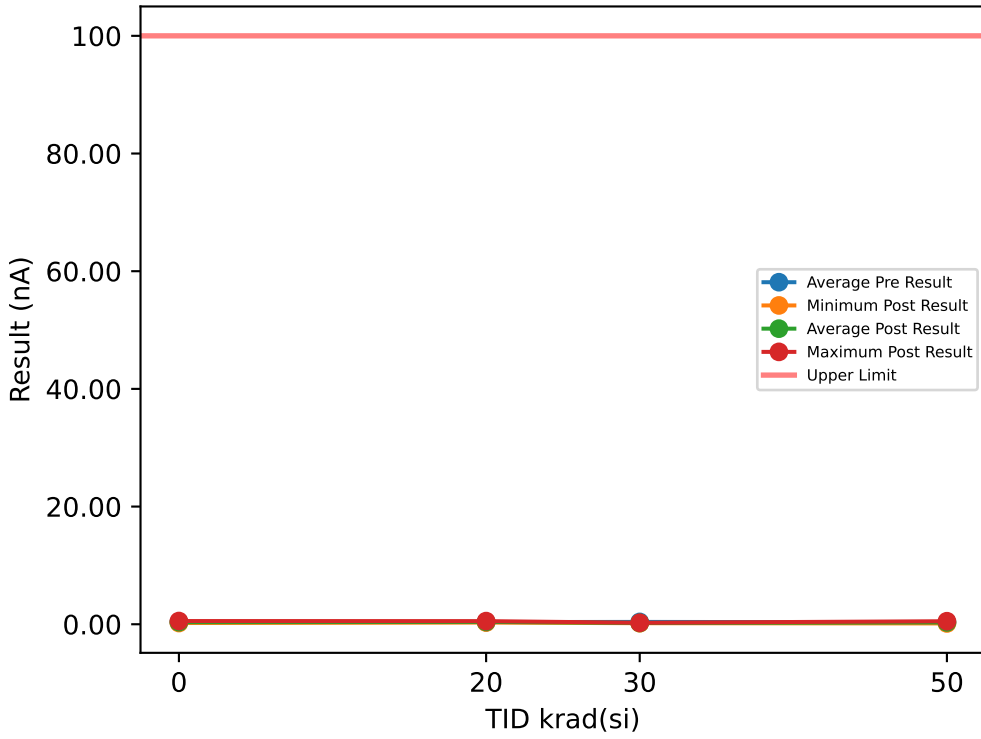| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.5502 | 1.5903 | 0.0401 |
| 2 | 20 | Bias | 1.538 | 1.5781 | 0.0401 |
| 3 | 20 | Bias | 1.537 | 1.5771 | 0.0401 |
| 4 | 20 | Bias | 1.5148 | 1.5466 | 0.0318 |
| 5 | 20 | Bias | 1.522 | 1.5542 | 0.0322 |
| 6 | 20 | Unbiased | 1.5142 | 1.5505 | 0.0363 |
| 7 | 20 | Unbiased | 1.5307 | 1.5667 | 0.036 |
| 8 | 20 | Unbiased | 1.5097 | 1.5421 | 0.0324 |
| 9 | 20 | Unbiased | 1.5182 | 1.5466 | 0.0284 |
| 10 | 20 | Unbiased | 1.5265 | 1.5628 | 0.0363 |
| 11 | 30 | Bias | 1.5332 | 1.5822 | 0.049 |
| 12 | 30 | Bias | 1.5451 | 1.577 | 0.0319 |
| 13 | 30 | Bias | 1.51 | 1.5885 | 0.0785 |
| 14 | 30 | Bias | 1.5136 | 1.5623 | 0.0487 |
| 15 | 30 | Bias | 1.537 | 1.5613 | 0.0243 |
| 16 | 30 | Unbiased | 1.518 | 1.581 | 0.063 |
| 17 | 30 | Unbiased | 1.526 | 1.5703 | 0.0443 |
| 18 | 30 | Unbiased | 1.5285 | 1.574 | 0.0455 |
| 19 | 30 | Unbiased | 1.5461 | 1.5804 | 0.0343 |
| 20 | 30 | Unbiased | 1.5163 | 1.6018 | 0.0855 |
| 21 | 50 | Bias | 1.5296 | 1.5685 | 0.0389 |
| 22 | 50 | Bias | 1.5412 | 1.597 | 0.0558 |
| 23 | 50 | Bias | 1.5186 | 1.6055 | 0.0869 |
| 24 | 50 | Bias | 1.5175 | 1.583 | 0.0655 |
| 25 | 50 | Bias | 1.5293 | 1.5894 | 0.0601 |
| 26 | 50 | Unbiased | 1.5408 | 1.6177 | 0.0769 |
| 27 | 50 | Unbiased | 1.514 | 1.5946 | 0.0806 |
| 28 | 50 | Unbiased | 1.5137 | 1.5903 | 0.0766 |
| 29 | 50 | Unbiased | 1.5168 | 1.6018 | 0.085 |
| 30 | 50 | Unbiased | 1.522 | 1.5948 | 0.0728 |
| 31 | 0 | Correlation | 1.5502 | 1.5503 | 0.0001 |
| 32 | 0 | Correlation | 1.5262 | 1.526 | -0.0002 |
| 33 | 0 | Correlation | 1.5014 | 1.5012 | -0.0002 |
| 34 | 0 | Correlation | 1.5243 | 1.5345 | 0.0102 |

## Test Statistics (V)
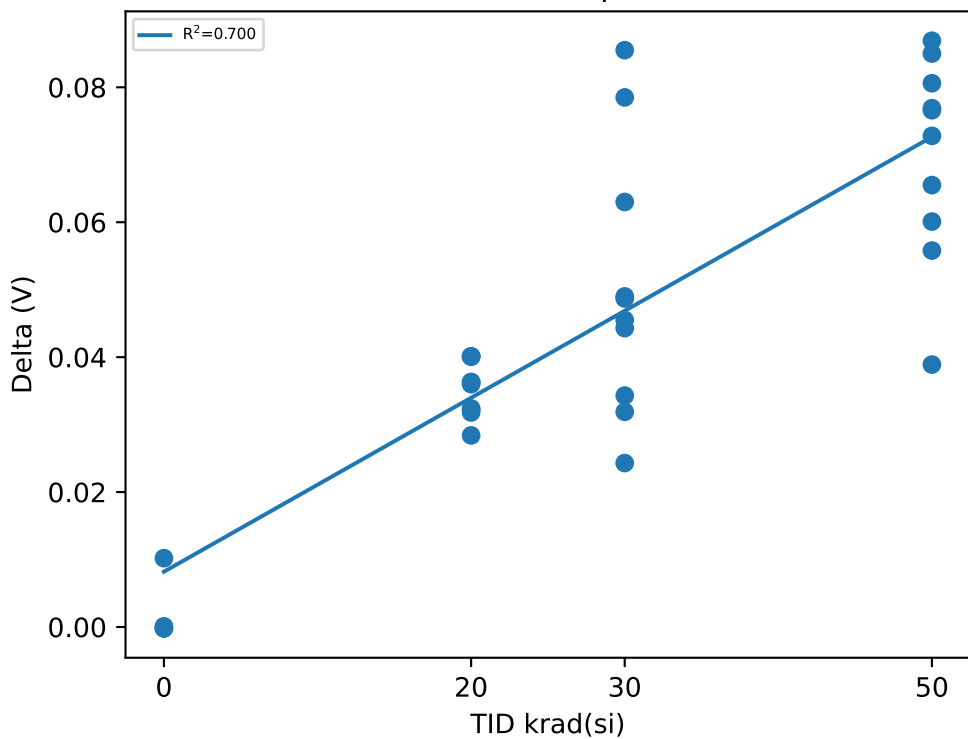
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.5014 | 1.5255 | 1.5502 | 0.01994 | 1.5012 | 1.528 | 1.5503 | 0.020508 | -0.0002 | 0.002475 | 0.0102 | 0.0051519 |
| 20 | 1.5097 | 1.5261 | 1.5502 | 0.012824 | 1.5421 | 1.5615 | 1.5903 | 0.016234 | 0.0284 | 0.03537 | 0.0401 | 0.0040749 |
| 30 | 1.51 | 1.5274 | 1.5461 | 0.012896 | 1.5613 | 1.5779 | 1.6018 | 0.012067 | 0.0243 | 0.0505 | 0.0855 | 0.019802 |
| 50 | 1.5137 | 1.5244 | 1.5412 | 0.01038 | 1.5685 | 1.5943 | 1.6177 | 0.013209 | 0.0389 | 0.06991 | 0.0869 | 0.014941 |

# Device Test: 15.141 VIN_VALID(_LEVEL|RISE/PWRGD/7//0/0/0/@VIN_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 2.0 (V))

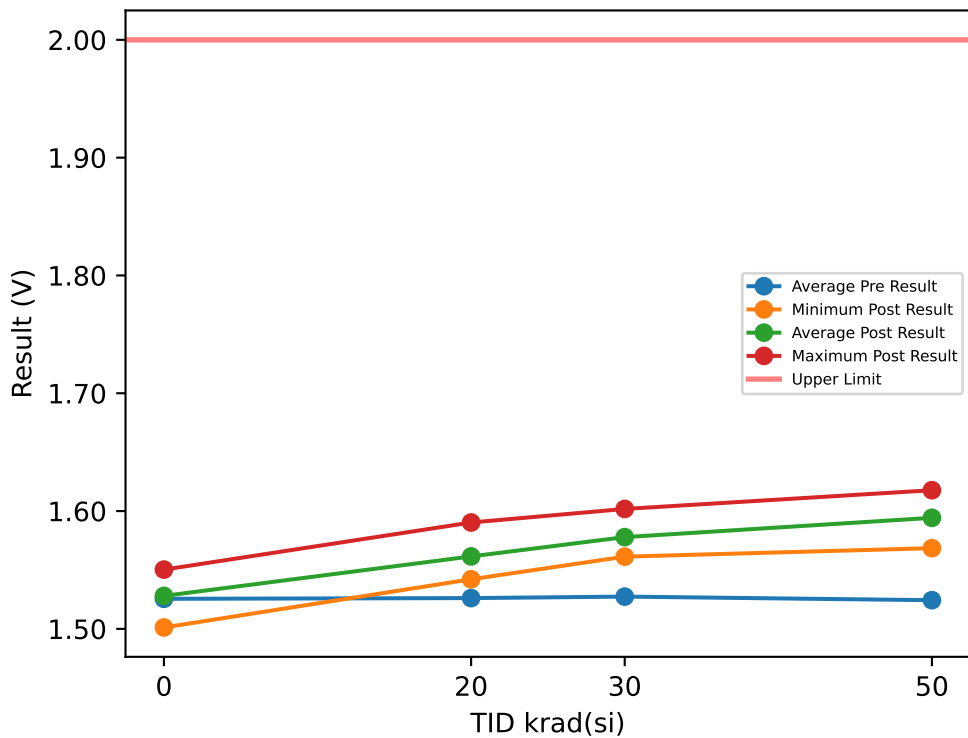| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 1.5747 | 1.615 | 0.0403 |
| 2 | 20 | Bias | 1.5626 | 1.6029 | 0.0403 |
| 3 | 20 | Bias | 1.5626 | 1.599 | 0.0364 |
| 4 | 20 | Bias | 1.5344 | 1.5667 | 0.0323 |
| 5 | 20 | Bias | 1.5506 | 1.5788 | 0.0282 |
| 6 | 20 | Unbiased | 1.5385 | 1.5747 | 0.0362 |
| 7 | 20 | Unbiased | 1.5587 | 1.5908 | 0.0321 |
| 8 | 20 | Unbiased | 1.5344 | 1.5667 | 0.0323 |
| 9 | 20 | Unbiased | 1.5385 | 1.5708 | 0.0323 |
| 10 | 20 | Unbiased | 1.5465 | 1.5828 | 0.0363 |
| 11 | 30 | Bias | 1.5546 | 1.6029 | 0.0483 |
| 12 | 30 | Bias | 1.5708 | 1.599 | 0.0282 |
| 13 | 30 | Bias | 1.5344 | 1.615 | 0.0806 |
| 14 | 30 | Bias | 1.5344 | 1.5908 | 0.0564 |
| 15 | 30 | Bias | 1.5626 | 1.5828 | 0.0202 |
| 16 | 30 | Unbiased | 1.5344 | 1.607 | 0.0726 |
| 17 | 30 | Unbiased | 1.5465 | 1.5908 | 0.0443 |
| 18 | 30 | Unbiased | 1.5506 | 1.5949 | 0.0443 |
| 19 | 30 | Unbiased | 1.5708 | 1.6029 | 0.0321 |
| 20 | 30 | Unbiased | 1.5344 | 1.6231 | 0.0887 |
| 21 | 50 | Bias | 1.5546 | 1.5908 | 0.0362 |
| 22 | 50 | Bias | 1.5626 | 1.619 | 0.0564 |
| 23 | 50 | Bias | 1.5385 | 1.6311 | 0.0926 |
| 24 | 50 | Bias | 1.5385 | 1.607 | 0.0685 |
| 25 | 50 | Bias | 1.5506 | 1.611 | 0.0604 |
| 26 | 50 | Unbiased | 1.5587 | 1.6352 | 0.0765 |
| 27 | 50 | Unbiased | 1.5385 | 1.619 | 0.0805 |
| 28 | 50 | Unbiased | 1.5385 | 1.615 | 0.0765 |
| 29 | 50 | Unbiased | 1.5385 | 1.6272 | 0.0887 |
| 30 | 50 | Unbiased | 1.5465 | 1.619 | 0.0725 |
| 31 | 0 | Correlation | 1.5747 | 1.5747 | 0 |
| 32 | 0 | Correlation | 1.5465 | 1.5465 | 0 |
| 33 | 0 | Correlation | 1.5264 | 1.5264 | 0 |
| 34 | 0 | Correlation | 1.5465 | 1.5587 | 0.0122 |

## Test Statistics (V)
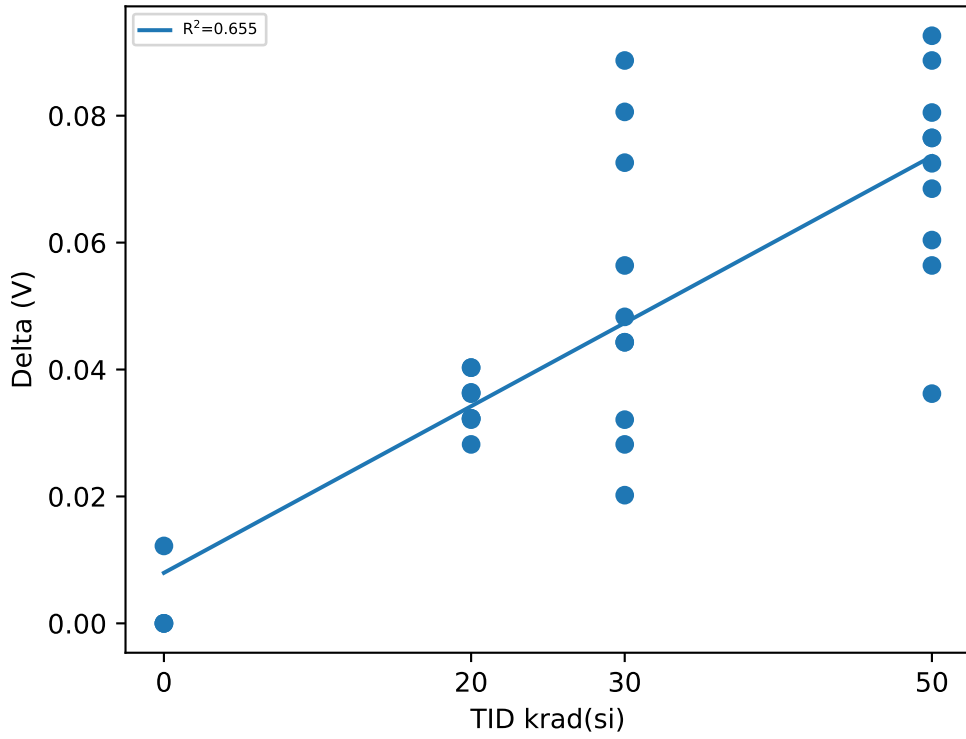
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.5264 | 1.5485 | 1.5747 | 0.019857 | 1.5264 | 1.5516 | 1.5747 | 0.020372 | 0 | 0.00305 | 0.0122 | 0.0061 |
| 20 | 1.5344 | 1.5501 | 1.5747 | 0.014012 | 1.5667 | 1.5848 | 1.615 | 0.016568 | 0.0282 | 0.03467 | 0.0403 | 0.0038973 |
| 30 | 1.5344 | 1.5494 | 1.5708 | 0.015007 | 1.5828 | 1.6009 | 1.6231 | 0.012056 | 0.0202 | 0.05157 | 0.0887 | 0.022883 |
| 50 | 1.5385 | 1.5466 | 1.5626 | 0.0094894 | 1.5908 | 1.6174 | 1.6352 | 0.012783 | 0.0362 | 0.07088 | 0.0926 | 0.016585 |

# Device Test: 15.142 VPULLUP_VALID(_LEVEL|RISE/EN1//0/0/0/0.1/@VPULLUP_VALID )

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Upper Limit = 1.4 (V))

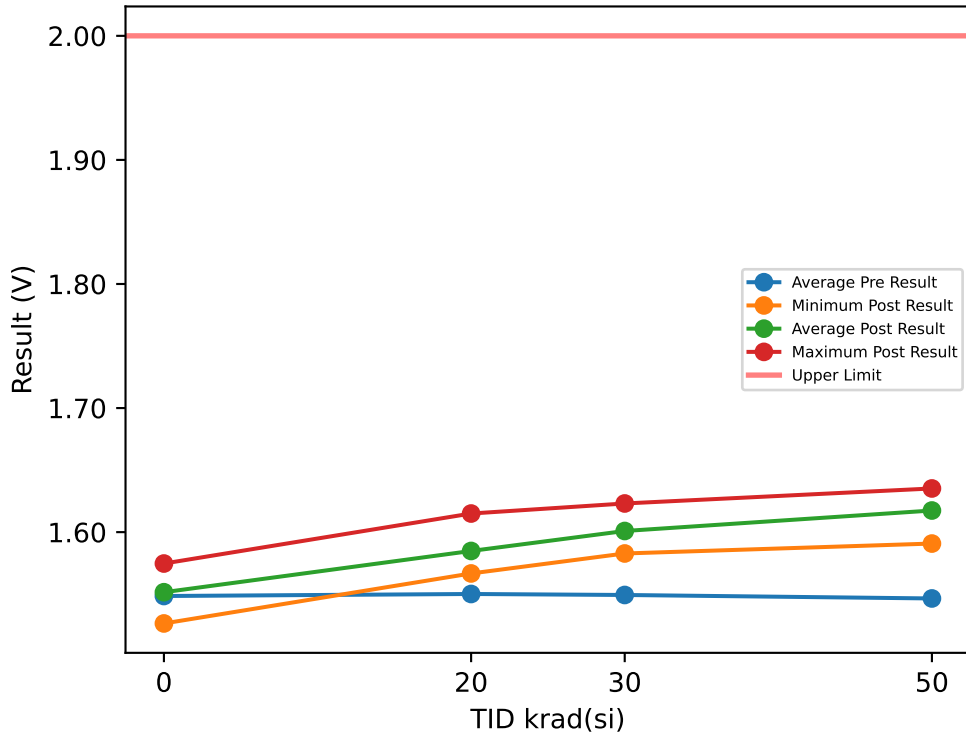| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.8344 | 0.8235 | -0.0109 |
| 2 | 20 | Bias | 0.8344 | 0.8235 | -0.0109 |
| 3 | 20 | Bias | 0.844 | 0.8329 | -0.0111 |
| 4 | 20 | Bias | 0.8521 | 0.8409 | -0.0112 |
| 5 | 20 | Bias | 0.8409 | 0.8299 | -0.011 |
| 6 | 20 | Unbiased | 0.8425 | 0.8235 | -0.019 |
| 7 | 20 | Unbiased | 0.844 | 0.8251 | -0.0189 |
| 8 | 20 | Unbiased | 0.8361 | 0.8156 | -0.0205 |
| 9 | 20 | Unbiased | 0.8377 | 0.8172 | -0.0205 |
| 10 | 20 | Unbiased | 0.8456 | 0.825 | -0.0206 |
| 11 | 30 | Bias | 0.844 | 0.8313 | -0.0127 |
| 12 | 30 | Bias | 0.847 | 0.8298 | -0.0172 |
| 13 | 30 | Bias | 0.8455 | 0.8328 | -0.0127 |
| 14 | 30 | Bias | 0.8284 | 0.8314 | 0.003 |
| 15 | 30 | Bias | 0.8423 | 0.8047 | -0.0376 |
| 16 | 30 | Unbiased | 0.8407 | 0.8109 | -0.0298 |
| 17 | 30 | Unbiased | 0.8266 | 0.8078 | -0.0188 |
| 18 | 30 | Unbiased | 0.8297 | 0.75 | -0.0797 |
| 19 | 30 | Unbiased | 0.8438 | 0.7499 | -0.0939 |
| 20 | 30 | Unbiased | 0.8315 | 0.8092 | -0.0223 |
| 21 | 50 | Bias | 0.8364 | 0.7952 | -0.0412 |
| 22 | 50 | Bias | 0.8535 | 0.8127 | -0.0408 |
| 23 | 50 | Bias | 0.8456 | 0.8347 | -0.0109 |
| 24 | 50 | Bias | 0.8501 | 0.8234 | -0.0267 |
| 25 | 50 | Bias | 0.8251 | 0.7499 | -0.0752 |
| 26 | 50 | Unbiased | 0.8299 | 0.7499 | -0.08 |
| 27 | 50 | Unbiased | 0.8502 | 0.75 | -0.1002 |
| 28 | 50 | Unbiased | 0.8392 | 0.7499 | -0.0893 |
| 29 | 50 | Unbiased | 0.8485 | 0.7499 | -0.0986 |
| 30 | 50 | Unbiased | 0.847 | 0.75 | -0.097 |
| 31 | 0 | Correlation | 0.8422 | 0.8423 | 0.0001 |
| 32 | 0 | Correlation | 0.8297 | 0.8299 | 0.0002 |
| 33 | 0 | Correlation | 0.8518 | 0.8518 | 0 |
| 34 | 0 | Correlation | 0.8285 | 0.8456 | 0.0171 |

### Test Statistics (V)
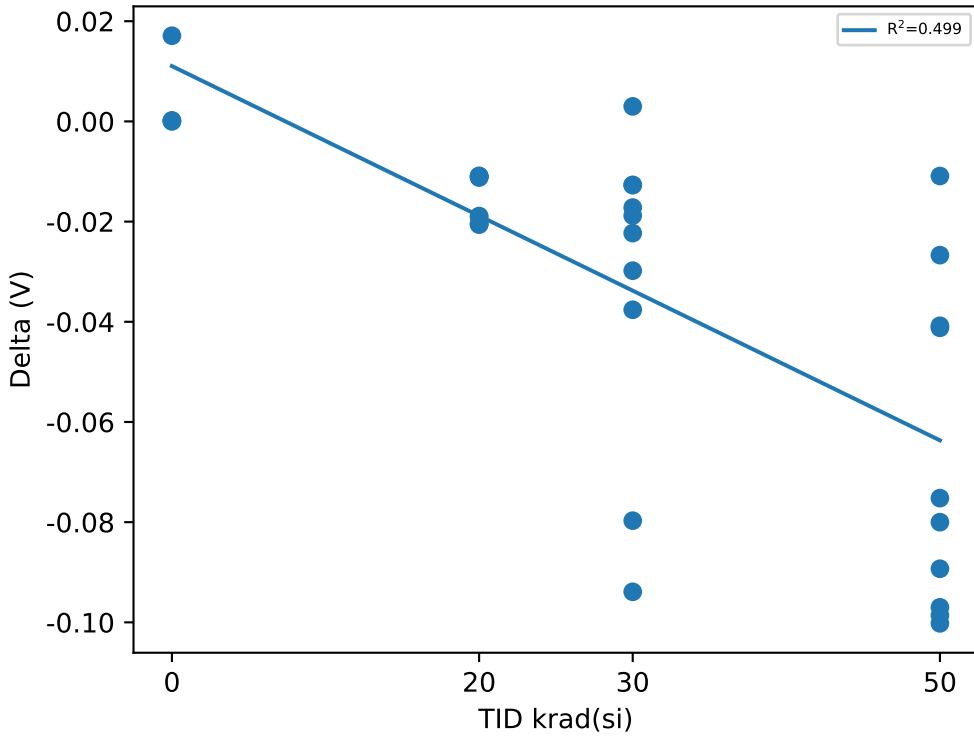
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.8285 | 0.83805 | 0.8518 | 0.011064 | 0.8299 | 0.8424 | 0.8518 | 0.009217 | 0 | 0.00435 | 0.0171 | 0.0085004 |
| 20 | 0.8344 | 0.84117 | 0.8521 | 0.0056407 | 0.8156 | 0.82571 | 0.8409 | 0.0073798 | -0.0206 | -0.01546 | -0.0109 | 0.0047167 |
| 30 | 0.8266 | 0.83795 | 0.847 | 0.0079296 | 0.7499 | 0.80578 | 0.8328 | 0.031432 | -0.0939 | -0.03217 | 0.003 | 0.030912 |
| 50 | 0.8251 | 0.84255 | 0.8535 | 0.0095073 | 0.7499 | 0.77656 | 0.8347 | 0.035718 | -0.1002 | -0.06599 | -0.0109 | 0.033078 |

# Device Test: 15.143 VPULLUP_VALID(_LEVEL|RISE/EN2//0/0/0/0.1/@VPULLUP_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.4 (V))

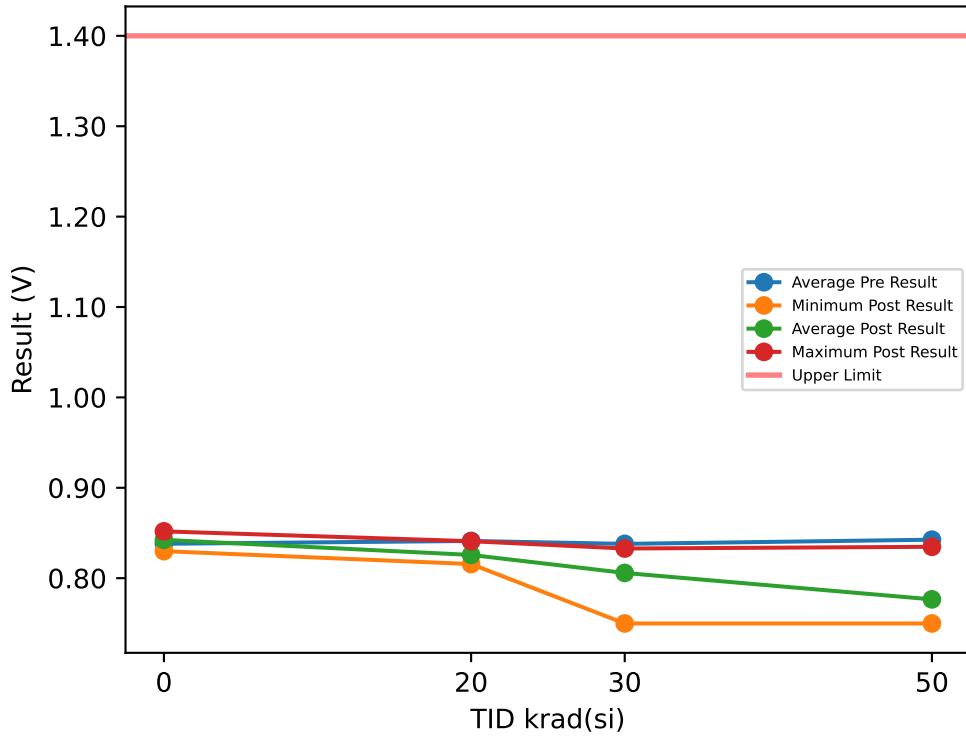| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 0.8362 | 0.8251 | -0.0111 |
| 2 | 20 | Bias | 0.8361 | 0.8251 | -0.011 |
| 3 | 20 | Bias | 0.847 | 0.8344 | -0.0126 |
| 4 | 20 | Bias | 0.8501 | 0.8394 | -0.0107 |
| 5 | 20 | Bias | 0.8392 | 0.8299 | -0.0093 |
| 6 | 20 | Unbiased | 0.8455 | 0.8251 | -0.0204 |
| 7 | 20 | Unbiased | 0.8423 | 0.8235 | -0.0188 |
| 8 | 20 | Unbiased | 0.844 | 0.8251 | -0.0189 |
| 9 | 20 | Unbiased | 0.8344 | 0.8141 | -0.0203 |
| 10 | 20 | Unbiased | 0.8391 | 0.8205 | -0.0186 |
| 11 | 30 | Bias | 0.844 | 0.8249 | -0.0191 |
| 12 | 30 | Bias | 0.847 | 0.8282 | -0.0188 |
| 13 | 30 | Bias | 0.844 | 0.8313 | -0.0127 |
| 14 | 30 | Bias | 0.8221 | 0.8282 | 0.0061 |
| 15 | 30 | Bias | 0.8425 | 0.7732 | -0.0693 |
| 16 | 30 | Unbiased | 0.8423 | 0.8047 | -0.0376 |
| 17 | 30 | Unbiased | 0.8251 | 0.8111 | -0.014 |
| 18 | 30 | Unbiased | 0.83 | 0.75 | -0.08 |
| 19 | 30 | Unbiased | 0.8409 | 0.75 | -0.0909 |
| 20 | 30 | Unbiased | 0.8329 | 0.7905 | -0.0424 |
| 21 | 50 | Bias | 0.8345 | 0.8014 | -0.0331 |
| 22 | 50 | Bias | 0.8535 | 0.8062 | -0.0473 |
| 23 | 50 | Bias | 0.8377 | 0.8328 | -0.0049 |
| 24 | 50 | Bias | 0.8456 | 0.8092 | -0.0364 |
| 25 | 50 | Bias | 0.8251 | 0.7499 | -0.0752 |
| 26 | 50 | Unbiased | 0.8252 | 0.7501 | -0.0751 |
| 27 | 50 | Unbiased | 0.8456 | 0.75 | -0.0956 |
| 28 | 50 | Unbiased | 0.8377 | 0.75 | -0.0877 |
| 29 | 50 | Unbiased | 0.8438 | 0.75 | -0.0938 |
| 30 | 50 | Unbiased | 0.847 | 0.75 | -0.097 |
| 31 | 0 | Correlation | 0.8377 | 0.8376 | -0.0001 |
| 32 | 0 | Correlation | 0.8282 | 0.8285 | 0.0003 |
| 33 | 0 | Correlation | 0.852 | 0.852 | 0 |
| 34 | 0 | Correlation | 0.8252 | 0.8409 | 0.0157 |

## Test Statistics (V)
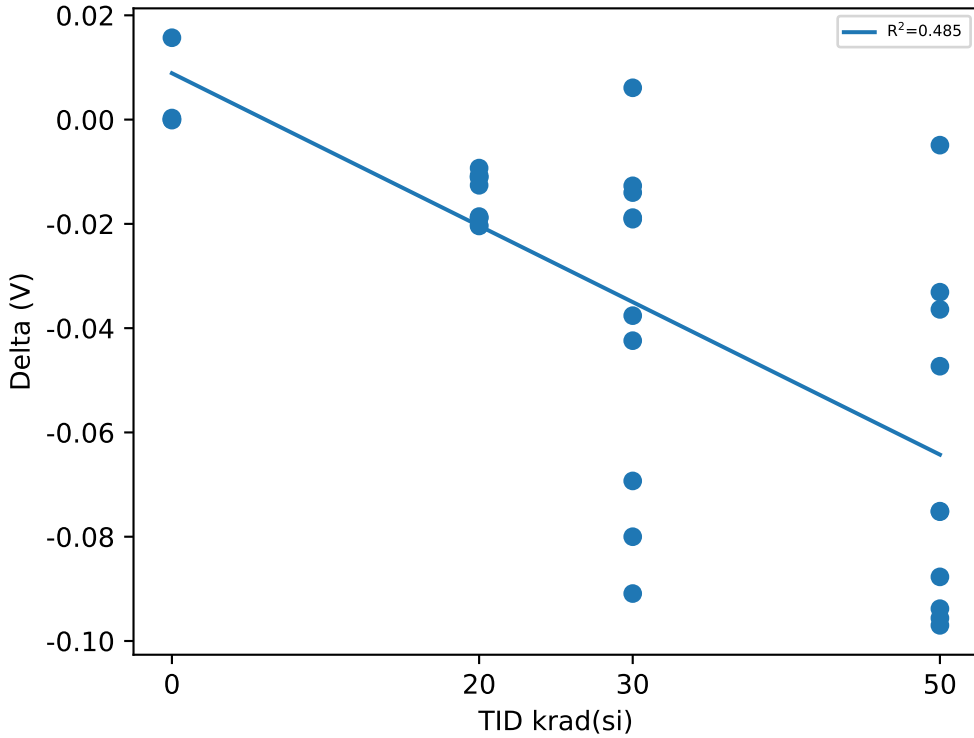
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.8252 | 0.83578 | 0.852 | 0.012058 | 0.8285 | 0.83975 | 0.852 | 0.0097052 | -0.0001 | 0.003975 | 0.0157 | 0.0078185 |
| 20 | 0.8344 | 0.84139 | 0.8501 | 0.0052248 | 0.8141 | 0.82622 | 0.8394 | 0.0070411 | -0.0204 | -0.01517 | -0.0093 | 0.0045646 |
| 30 | 0.8221 | 0.83708 | 0.847 | 0.0088249 | 0.75 | 0.79921 | 0.8313 | 0.031864 | -0.0909 | -0.03787 | 0.0061 | 0.032401 |
| 50 | 0.8251 | 0.83957 | 0.8535 | 0.0093597 | 0.7499 | 0.77496 | 0.8328 | 0.033218 | -0.097 | -0.06461 | -0.0049 | 0.032094 |

# Device Test: 15.144 VPULLUP_VALID(_LEVEL|RISE/EN3//0/0/0/0.1/@VPULLUP_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.4 (V))

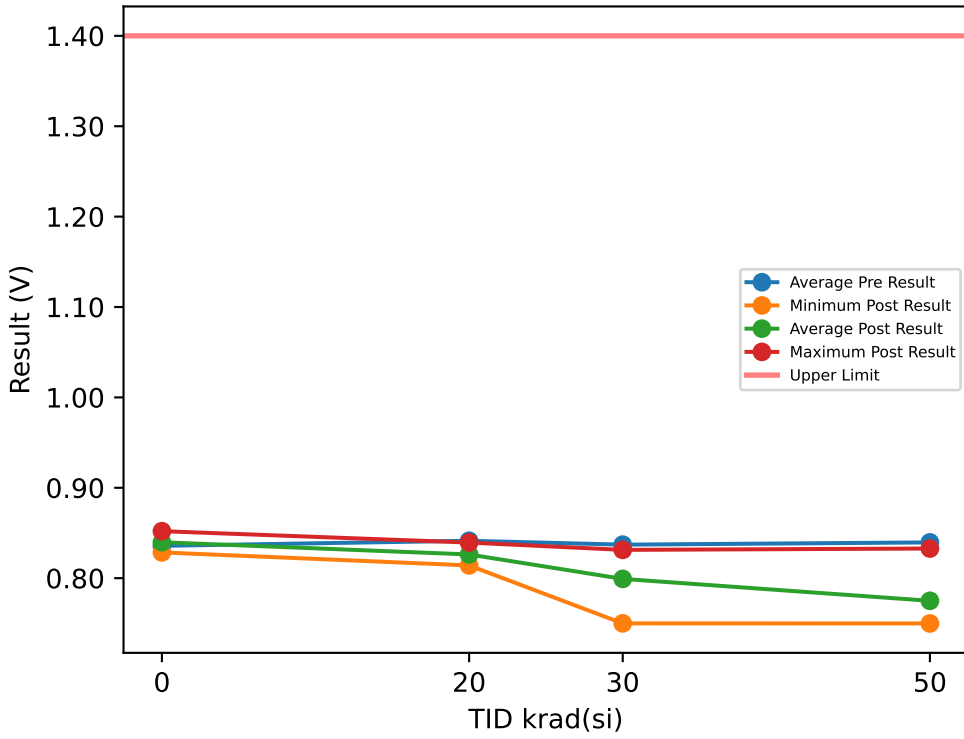| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.8377 | 0.8265 | -0.0112 |
| 2 | 20 | Bias | 0.8361 | 0.8251 | -0.011 |
| 3 | 20 | Bias | 0.8455 | 0.8345 | -0.011 |
| 4 | 20 | Bias | 0.8518 | 0.8407 | -0.0111 |
| 5 | 20 | Bias | 0.8375 | 0.8282 | -0.0093 |
| 6 | 20 | Unbiased | 0.8423 | 0.8235 | -0.0188 |
| 7 | 20 | Unbiased | 0.8391 | 0.8205 | -0.0186 |
| 8 | 20 | Unbiased | 0.844 | 0.8251 | -0.0189 |
| 9 | 20 | Unbiased | 0.8329 | 0.8031 | -0.0298 |
| 10 | 20 | Unbiased | 0.8377 | 0.8174 | -0.0203 |
| 11 | 30 | Bias | 0.8425 | 0.8267 | -0.0158 |
| 12 | 30 | Bias | 0.8455 | 0.8251 | -0.0204 |
| 13 | 30 | Bias | 0.8455 | 0.8298 | -0.0157 |
| 14 | 30 | Bias | 0.8234 | 0.8282 | 0.0048 |
| 15 | 30 | Bias | 0.8423 | 0.7763 | -0.066 |
| 16 | 30 | Unbiased | 0.8423 | 0.8032 | -0.0391 |
| 17 | 30 | Unbiased | 0.8221 | 0.8124 | -0.0097 |
| 18 | 30 | Unbiased | 0.8297 | 0.7499 | -0.0798 |
| 19 | 30 | Unbiased | 0.8409 | 0.7501 | -0.0908 |
| 20 | 30 | Unbiased | 0.8362 | 0.7937 | -0.0425 |
| 21 | 50 | Bias | 0.8391 | 0.8141 | -0.025 |
| 22 | 50 | Bias | 0.8548 | 0.8172 | -0.0376 |
| 23 | 50 | Bias | 0.8422 | 0.8345 | -0.0077 |
| 24 | 50 | Bias | 0.8485 | 0.8171 | -0.0314 |
| 25 | 50 | Bias | 0.8297 | 0.7685 | -0.0612 |
| 26 | 50 | Unbiased | 0.8282 | 0.75 | -0.0782 |
| 27 | 50 | Unbiased | 0.8487 | 0.7499 | -0.0988 |
| 28 | 50 | Unbiased | 0.8407 | 0.75 | -0.0907 |
| 29 | 50 | Unbiased | 0.8455 | 0.75 | -0.0955 |
| 30 | 50 | Unbiased | 0.847 | 0.7499 | -0.0971 |
| 31 | 0 | Correlation | 0.8344 | 0.8345 | 0.0001 |
| 32 | 0 | Correlation | 0.8299 | 0.8299 | 0 |
| 33 | 0 | Correlation | 0.8533 | 0.8535 | 0.0002 |
| 34 | 0 | Correlation | 0.8299 | 0.8423 | 0.0124 |

## Test Statistics (V)
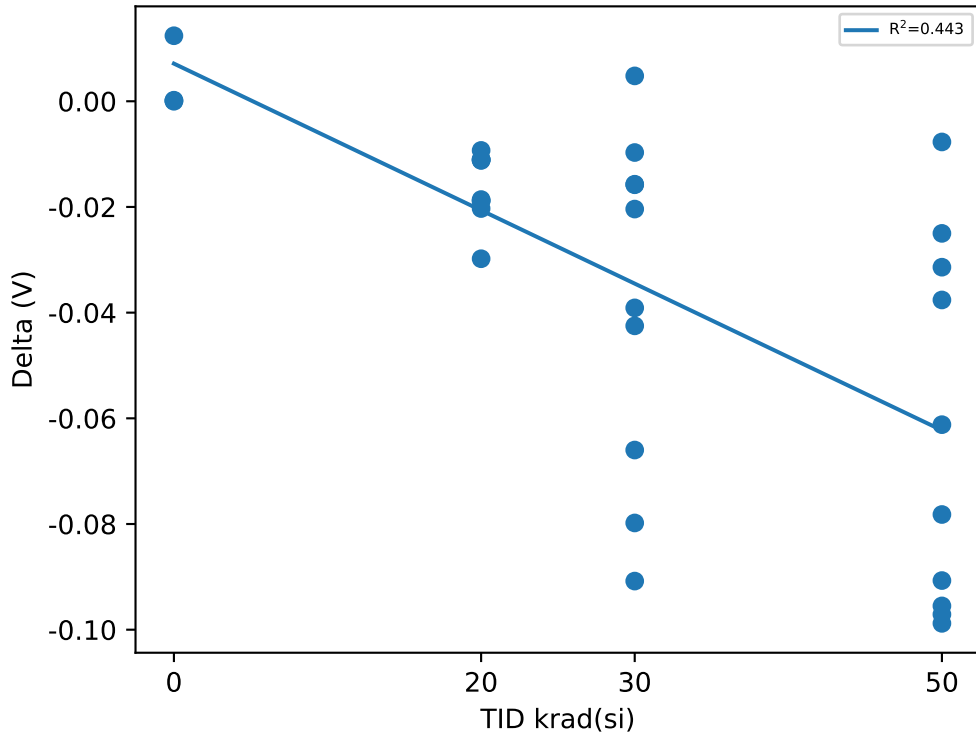
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.8299 | 0.83688 | 0.8533 | 0.011154 | 0.8299 | 0.84005 | 0.8535 | 0.010325 | 0 | 0.003175 | 0.0124 | 0.0061505 |
| 20 | 0.8329 | 0.84046 | 0.8518 | 0.0054967 | 0.8031 | 0.82446 | 0.8407 | 0.010034 | -0.0298 | -0.016 | -0.0093 | 0.0064453 |
| 30 | 0.8221 | 0.83704 | 0.8455 | 0.0088633 | 0.7499 | 0.79954 | 0.8298 | 0.031251 | -0.0908 | -0.0375 | 0.0048 | 0.032095 |
| 50 | 0.8282 | 0.84244 | 0.8548 | 0.0084206 | 0.7499 | 0.78012 | 0.8345 | 0.035804 | -0.0988 | -0.06232 | -0.0077 | 0.034389 |

# Device Test: 15.145 VPULLUP_VALID(_LEVEL|RISE/EN4//0/0/0/0.1/@VPULLUP_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.4 (V))

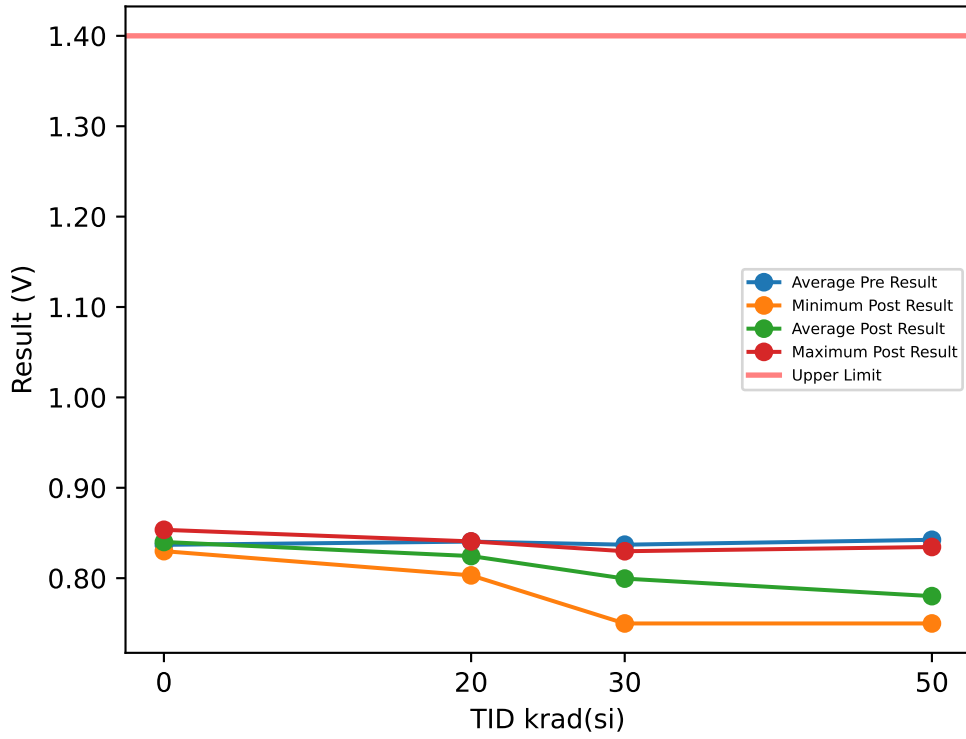| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.8344 | 0.8236 | -0.0108 |
| 2 | 20 | Bias | 0.8377 | 0.8266 | -0.0111 |
| 3 | 20 | Bias | 0.847 | 0.8361 | -0.0109 |
| 4 | 20 | Bias | 0.8566 | 0.8456 | -0.011 |
| 5 | 20 | Bias | 0.8391 | 0.8299 | -0.0092 |
| 6 | 20 | Unbiased | 0.8422 | 0.8219 | -0.0203 |
| 7 | 20 | Unbiased | 0.8391 | 0.8189 | -0.0202 |
| 8 | 20 | Unbiased | 0.8422 | 0.8236 | -0.0186 |
| 9 | 20 | Unbiased | 0.8376 | 0.8174 | -0.0202 |
| 10 | 20 | Unbiased | 0.8392 | 0.8206 | -0.0186 |
| 11 | 30 | Bias | 0.8455 | 0.8251 | -0.0204 |
| 12 | 30 | Bias | 0.8486 | 0.8298 | -0.0188 |
| 13 | 30 | Bias | 0.8425 | 0.8313 | -0.0112 |
| 14 | 30 | Bias | 0.8251 | 0.8266 | 0.0015 |
| 15 | 30 | Bias | 0.8423 | 0.7875 | -0.0548 |
| 16 | 30 | Unbiased | 0.844 | 0.8014 | -0.0426 |
| 17 | 30 | Unbiased | 0.8251 | 0.8126 | -0.0125 |
| 18 | 30 | Unbiased | 0.8329 | 0.75 | -0.0829 |
| 19 | 30 | Unbiased | 0.8441 | 0.7622 | -0.0819 |
| 20 | 30 | Unbiased | 0.8314 | 0.8031 | -0.0283 |
| 21 | 50 | Bias | 0.8362 | 0.792 | -0.0442 |
| 22 | 50 | Bias | 0.8565 | 0.8078 | -0.0487 |
| 23 | 50 | Bias | 0.8422 | 0.8359 | -0.0063 |
| 24 | 50 | Bias | 0.8518 | 0.8189 | -0.0329 |
| 25 | 50 | Bias | 0.8299 | 0.77 | -0.0599 |
| 26 | 50 | Unbiased | 0.8284 | 0.7499 | -0.0785 |
| 27 | 50 | Unbiased | 0.8487 | 0.75 | -0.0987 |
| 28 | 50 | Unbiased | 0.8406 | 0.7499 | -0.0907 |
| 29 | 50 | Unbiased | 0.8455 | 0.7499 | -0.0956 |
| 30 | 50 | Unbiased | 0.8438 | 0.7497 | -0.0941 |
| 31 | 0 | Correlation | 0.8391 | 0.8391 | 0 |
| 32 | 0 | Correlation | 0.8312 | 0.8314 | 0.0002 |
| 33 | 0 | Correlation | 0.8536 | 0.8533 | -0.0003 |
| 34 | 0 | Correlation | 0.8282 | 0.8407 | 0.0125 |

## Test Statistics (V)
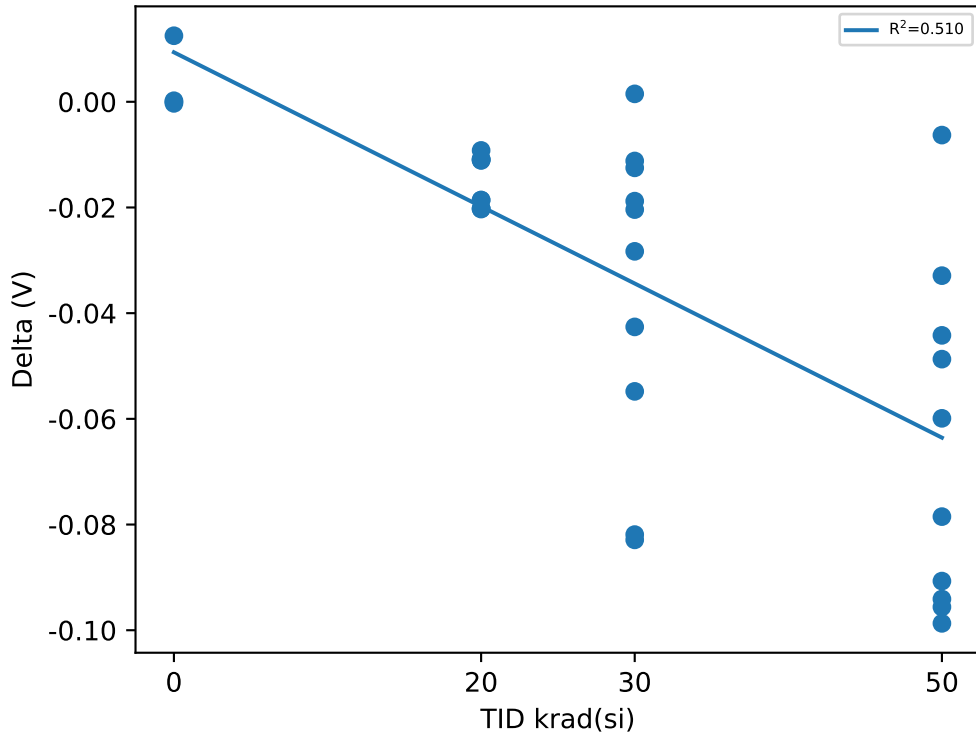
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.8282 | 0.83803 | 0.8536 | 0.011356 | 0.8314 | 0.84113 | 0.8533 | 0.0090754 | -0.0003 | 0.0031 | 0.0125 | 0.00627 |
| 20 | 0.8344 | 0.84151 | 0.8566 | 0.0062903 | 0.8174 | 0.82642 | 0.8456 | 0.008704 | -0.0203 | -0.01509 | -0.0092 | 0.0047994 |
| 30 | 0.8251 | 0.83815 | 0.8486 | 0.0087097 | 0.75 | 0.80296 | 0.8313 | 0.028622 | -0.0829 | -0.03519 | 0.0015 | 0.029569 |
| 50 | 0.8284 | 0.84236 | 0.8565 | 0.0090209 | 0.7497 | 0.7774 | 0.8359 | 0.033538 | -0.0987 | -0.06496 | -0.0063 | 0.031556 |

# Device Test: 15.146 VPULLUP_VALID(_LEVEL|RISE/SEQ_DONE//0/0/0/0.1/@VPULLUP_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.4 (V))

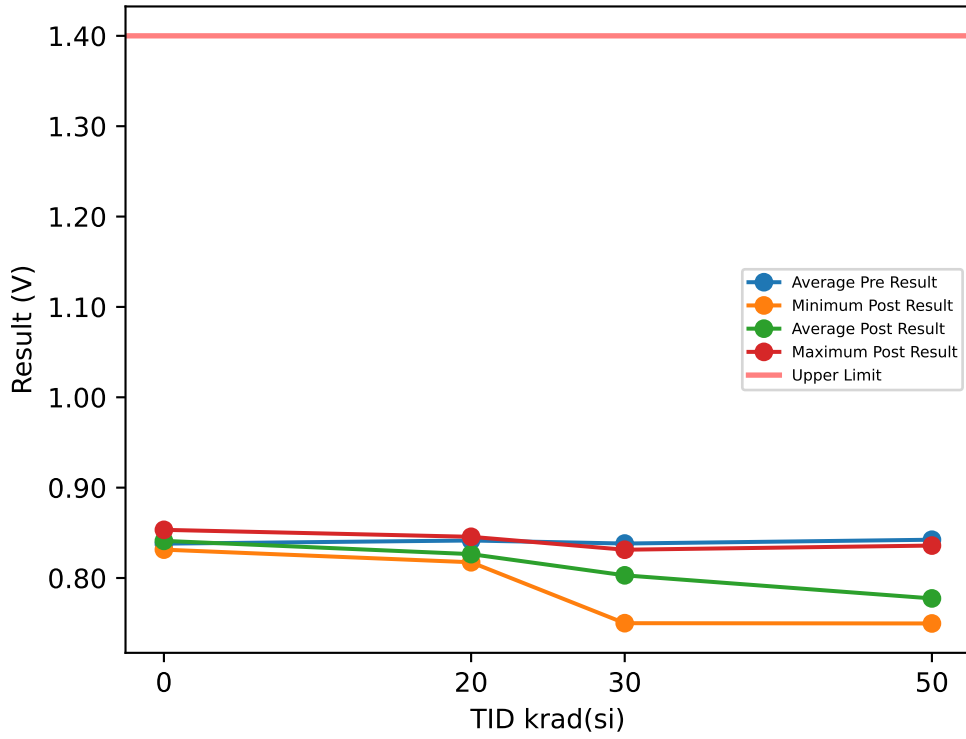| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.8251 | 0.8141 | -0.011 |
| 2 | 20 | Bias | 0.8252 | 0.8142 | -0.011 |
| 3 | 20 | Bias | 0.833 | 0.8207 | -0.0123 |
| 4 | 20 | Bias | 0.8377 | 0.8285 | -0.0092 |
| 5 | 20 | Bias | 0.8236 | 0.8142 | -0.0094 |
| 6 | 20 | Unbiased | 0.8283 | 0.8077 | -0.0206 |
| 7 | 20 | Unbiased | 0.8237 | 0.8016 | -0.0221 |
| 8 | 20 | Unbiased | 0.8251 | 0.8046 | -0.0205 |
| 9 | 20 | Unbiased | 0.8221 | 0.7967 | -0.0254 |
| 10 | 20 | Unbiased | 0.8252 | 0.8048 | -0.0204 |
| 11 | 30 | Bias | 0.8285 | 0.811 | -0.0175 |
| 12 | 30 | Bias | 0.8378 | 0.8109 | -0.0269 |
| 13 | 30 | Bias | 0.8252 | 0.8206 | -0.0046 |
| 14 | 30 | Bias | 0.8156 | 0.8094 | -0.0062 |
| 15 | 30 | Bias | 0.8283 | 0.781 | -0.0473 |
| 16 | 30 | Unbiased | 0.833 | 0.7779 | -0.0551 |
| 17 | 30 | Unbiased | 0.8141 | 0.8016 | -0.0125 |
| 18 | 30 | Unbiased | 0.8173 | 0.7499 | -0.0674 |
| 19 | 30 | Unbiased | 0.825 | 0.75 | -0.075 |
| 20 | 30 | Unbiased | 0.8236 | 0.7564 | -0.0672 |
| 21 | 50 | Bias | 0.8236 | 0.7936 | -0.03 |
| 22 | 50 | Bias | 0.8456 | 0.792 | -0.0536 |
| 23 | 50 | Bias | 0.833 | 0.8251 | -0.0079 |
| 24 | 50 | Bias | 0.8377 | 0.8063 | -0.0314 |
| 25 | 50 | Bias | 0.8172 | 0.7563 | -0.0609 |
| 26 | 50 | Unbiased | 0.8142 | 0.7498 | -0.0644 |
| 27 | 50 | Unbiased | 0.8361 | 0.7498 | -0.0863 |
| 28 | 50 | Unbiased | 0.83 | 0.7498 | -0.0802 |
| 29 | 50 | Unbiased | 0.83 | 0.75 | -0.08 |
| 30 | 50 | Unbiased | 0.8313 | 0.7498 | -0.0815 |
| 31 | 0 | Correlation | 0.8285 | 0.8282 | -0.0003 |
| 32 | 0 | Correlation | 0.8173 | 0.8173 | 0 |
| 33 | 0 | Correlation | 0.8377 | 0.8378 | 0.0001 |
| 34 | 0 | Correlation | 0.8266 | 0.8266 | 0 |

## Test Statistics (V)
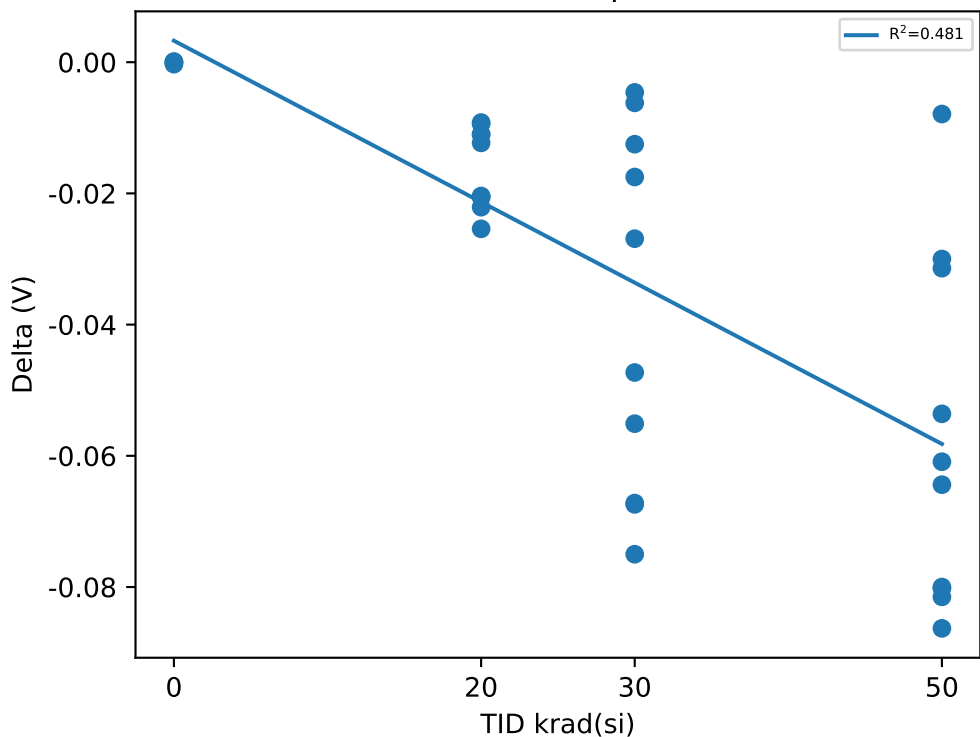
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.8173 | 0.82753 | 0.8377 | 0.0083644 | 0.8173 | 0.82747 | 0.8378 | 0.008395 | -0.0003 | -5e-05 | 0.0001 | 0.00017321 |
| 20 | 0.8221 | 0.8269 | 0.8377 | 0.0048562 | 0.7967 | 0.81071 | 0.8285 | 0.0095028 | -0.0254 | -0.01619 | -0.0092 | 0.0061416 |
| 30 | 0.8141 | 0.82484 | 0.8378 | 0.0075952 | 0.7499 | 0.78687 | 0.8206 | 0.02747 | -0.075 | -0.03797 | -0.0046 | 0.027458 |
| 50 | 0.8142 | 0.82987 | 0.8456 | 0.0094565 | 0.7498 | 0.77225 | 0.8251 | 0.02899 | -0.0863 | -0.05762 | -0.0079 | 0.026664 |

# Device Test: 15.147 VPULLUP_VALID(_LEVEL|RISE/PWRGD//0/0/0/0.1/@VPULLUP_VALID )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.4 (V))

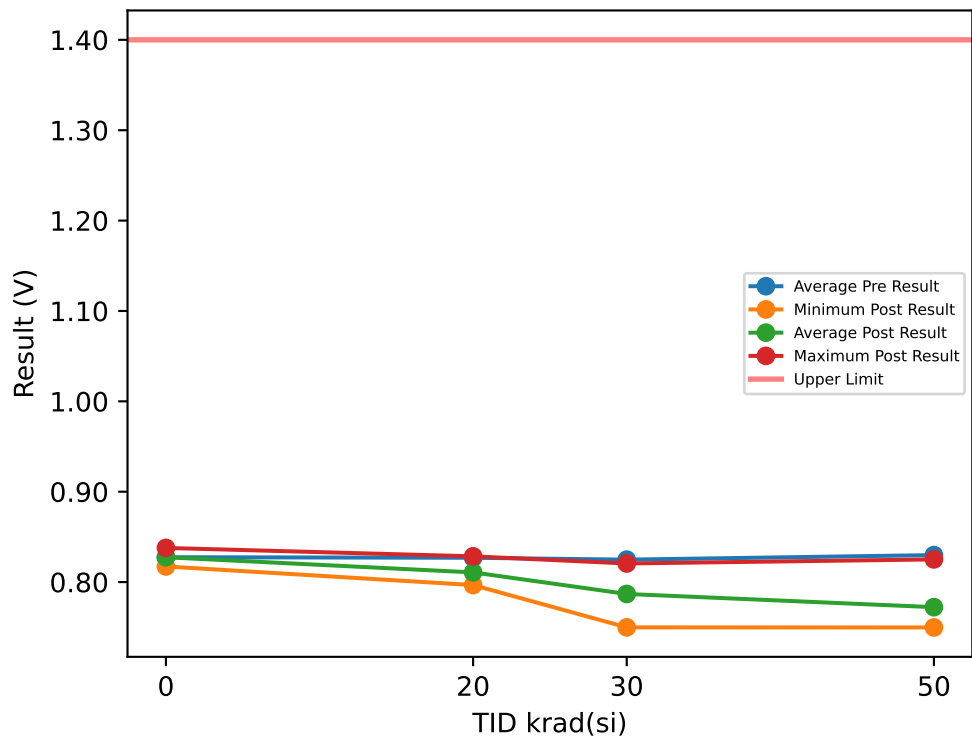| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.8236 | 0.8126 | -0.011 |
| 2 | 20 | Bias | 0.8252 | 0.8141 | -0.0111 |
| 3 | 20 | Bias | 0.833 | 0.8222 | -0.0108 |
| 4 | 20 | Bias | 0.841 | 0.8298 | -0.0112 |
| 5 | 20 | Bias | 0.8221 | 0.8126 | -0.0095 |
| 6 | 20 | Unbiased | 0.8267 | 0.8062 | -0.0205 |
| 7 | 20 | Unbiased | 0.8236 | 0.8031 | -0.0205 |
| 8 | 20 | Unbiased | 0.8266 | 0.8077 | -0.0189 |
| 9 | 20 | Unbiased | 0.8222 | 0.7998 | -0.0224 |
| 10 | 20 | Unbiased | 0.8267 | 0.8063 | -0.0204 |
| 11 | 30 | Bias | 0.8268 | 0.8094 | -0.0174 |
| 12 | 30 | Bias | 0.8377 | 0.8126 | -0.0251 |
| 13 | 30 | Bias | 0.8285 | 0.822 | -0.0065 |
| 14 | 30 | Bias | 0.8141 | 0.8125 | -0.0016 |
| 15 | 30 | Bias | 0.8283 | 0.7841 | -0.0442 |
| 16 | 30 | Unbiased | 0.8313 | 0.7858 | -0.0455 |
| 17 | 30 | Unbiased | 0.8126 | 0.803 | -0.0096 |
| 18 | 30 | Unbiased | 0.822 | 0.75 | -0.072 |
| 19 | 30 | Unbiased | 0.8236 | 0.7592 | -0.0644 |
| 20 | 30 | Unbiased | 0.8157 | 0.7608 | -0.0549 |
| 21 | 50 | Bias | 0.822 | 0.7669 | -0.0551 |
| 22 | 50 | Bias | 0.8425 | 0.7905 | -0.052 |
| 23 | 50 | Bias | 0.8315 | 0.8234 | -0.0081 |
| 24 | 50 | Bias | 0.833 | 0.8079 | -0.0251 |
| 25 | 50 | Bias | 0.8126 | 0.7498 | -0.0628 |
| 26 | 50 | Unbiased | 0.8157 | 0.7501 | -0.0656 |
| 27 | 50 | Unbiased | 0.833 | 0.7498 | -0.0832 |
| 28 | 50 | Unbiased | 0.8267 | 0.7498 | -0.0769 |
| 29 | 50 | Unbiased | 0.83 | 0.75 | -0.08 |
| 30 | 50 | Unbiased | 0.8313 | 0.75 | -0.0813 |
| 31 | 0 | Correlation | 0.8266 | 0.8266 | 0 |
| 32 | 0 | Correlation | 0.8141 | 0.8141 | 0 |
| 33 | 0 | Correlation | 0.8361 | 0.8362 | 0.0001 |
| 34 | 0 | Correlation | 0.8188 | 0.8251 | 0.0063 |

## Test Statistics (V)
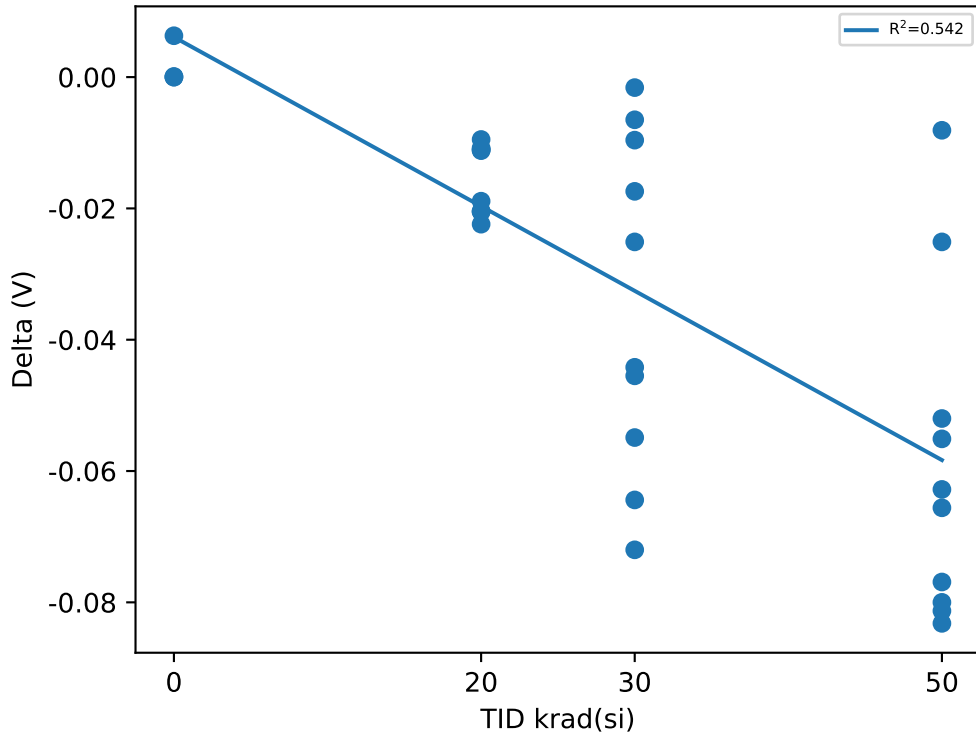
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.8141 | 0.8239 | 0.8361 | 0.0096295 | 0.8141 | 0.8255 | 0.8362 | 0.0090521 | 0 | 0.0016 | 0.0063 | 0.0031337 |
| 20 | 0.8221 | 0.82707 | 0.841 | 0.0058281 | 0.7998 | 0.81144 | 0.8298 | 0.0090403 | -0.0224 | -0.01563 | -0.0095 | 0.005262 |
| 30 | 0.8126 | 0.82406 | 0.8377 | 0.0080866 | 0.75 | 0.78994 | 0.822 | 0.025906 | -0.072 | -0.03412 | -0.0016 | 0.02538 |
| 50 | 0.8126 | 0.82783 | 0.8425 | 0.0089022 | 0.7498 | 0.76882 | 0.8234 | 0.028135 | -0.0832 | -0.05901 | -0.0081 | 0.025181 |

# Device Test: 15.148 VTURN_OFF(_EVEL|V_TURNOFF/SENSE2//3/0/0/0/@VTURN_OFF )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 87.0, Upper Limit = 91.0 (%))

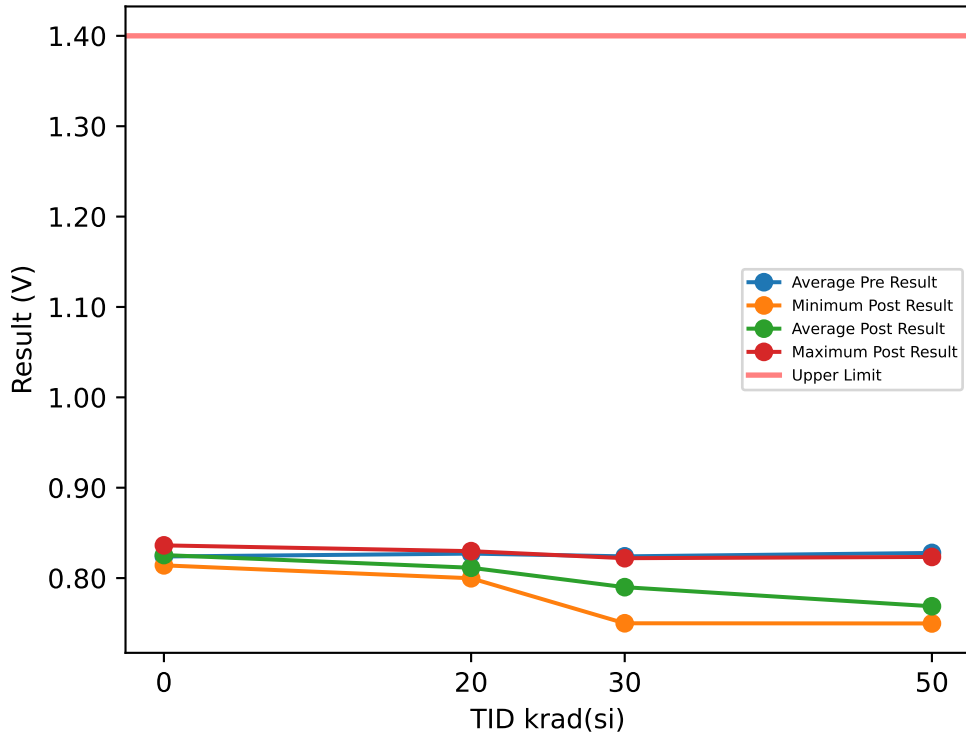| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 89.425 | 89.173 | -0.2515 |
| 2 | 20 | Bias | 89.541 | 89.332 | -0.2089 |
| 3 | 20 | Bias | 89.667 | 89.453 | -0.2142 |
| 4 | 20 | Bias | 89.579 | 89.463 | -0.1165 |
| 5 | 20 | Bias | 89.473 | 89.318 | -0.1552 |
| 6 | 20 | Unbiased | 89.561 | 89.77 | 0.2088 |
| 7 | 20 | Unbiased | 89.472 | 89.444 | -0.0277 |
| 8 | 20 | Unbiased | 89.654 | 89.552 | -0.1024 |
| 9 | 20 | Unbiased | 89.779 | 89.686 | -0.0932 |
| 10 | 20 | Unbiased | 89.581 | 89.615 | 0.0333 |
| 11 | 30 | Bias | 89.352 | 89.37 | 0.0183 |
| 12 | 30 | Bias | 89.369 | 89.13 | -0.2393 |
| 13 | 30 | Bias | 89.486 | 89.123 | -0.3626 |
| 14 | 30 | Bias | 89.374 | 89.156 | -0.2176 |
| 15 | 30 | Bias | 89.588 | 89.151 | -0.4372 |
| 16 | 30 | Unbiased | 89.757 | 89.464 | -0.2929 |
| 17 | 30 | Unbiased | 89.482 | 89.689 | 0.2071 |
| 18 | 30 | Unbiased | 89.555 | 89.579 | 0.0247 |
| 19 | 30 | Unbiased | 89.351 | 89.482 | 0.1307 |
| 20 | 30 | Unbiased | 89.38 | 89.316 | -0.0637 |
| 21 | 50 | Bias | 89.352 | 89.031 | -0.3206 |
| 22 | 50 | Bias | 89.503 | 89.031 | -0.4719 |
| 23 | 50 | Bias | 89.695 | 89.189 | -0.5056 |
| 24 | 50 | Bias | 89.653 | 89.406 | -0.2463 |
| 25 | 50 | Bias | 89.387 | 89.037 | -0.3508 |
| 26 | 50 | Unbiased | 89.653 | 89.64 | -0.0131 |
| 27 | 50 | Unbiased | 89.447 | 89.48 | 0.0333 |
| 28 | 50 | Unbiased | 89.345 | 89.336 | -0.0093 |
| 29 | 50 | Unbiased | 89.77 | 89.732 | -0.0377 |
| 30 | 50 | Unbiased | 89.717 | 89.654 | -0.0633 |
| 31 | 0 | Correlation | 89.367 | 89.343 | -0.0239 |
| 32 | 0 | Correlation | 89.574 | 89.676 | 0.1025 |
| 33 | 0 | Correlation | 89.574 | 89.48 | -0.0935 |
| 34 | 0 | Correlation | 89.33 | 89.607 | 0.2772 |

## Test Statistics (%)
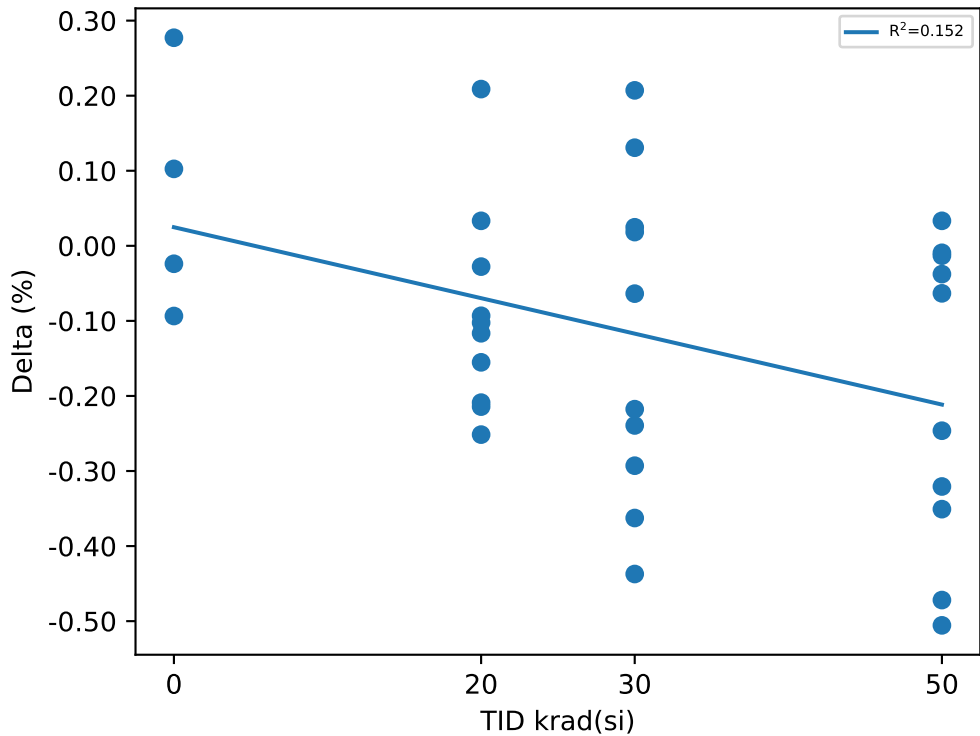
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 89.33 | 89.461 | 89.574 | 0.13109 | 89.343 | 89.527 | 89.676 | 0.14697 | -0.0935 | 0.065575 | 0.2772 | 0.16275 |
| 20 | 89.425 | 89.573 | 89.779 | 0.10603 | 89.173 | 89.48 | 89.77 | 0.18068 | -0.2515 | -0.09275 | 0.2088 | 0.13705 |
| 30 | 89.351 | 89.469 | 89.757 | 0.133 | 89.123 | 89.346 | 89.689 | 0.20445 | -0.4372 | -0.12325 | 0.2071 | 0.21759 |
| 50 | 89.345 | 89.552 | 89.77 | 0.16294 | 89.031 | 89.354 | 89.732 | 0.27281 | -0.5056 | -0.19853 | 0.0333 | 0.2048 |

# Device Test: 15.149 VTURN_OFF(_EVEL|V_TURNOFF/SENSE3//3/0/0/0/@VTURN_OFF )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 87.0, Upper Limit = 91.0 (%))

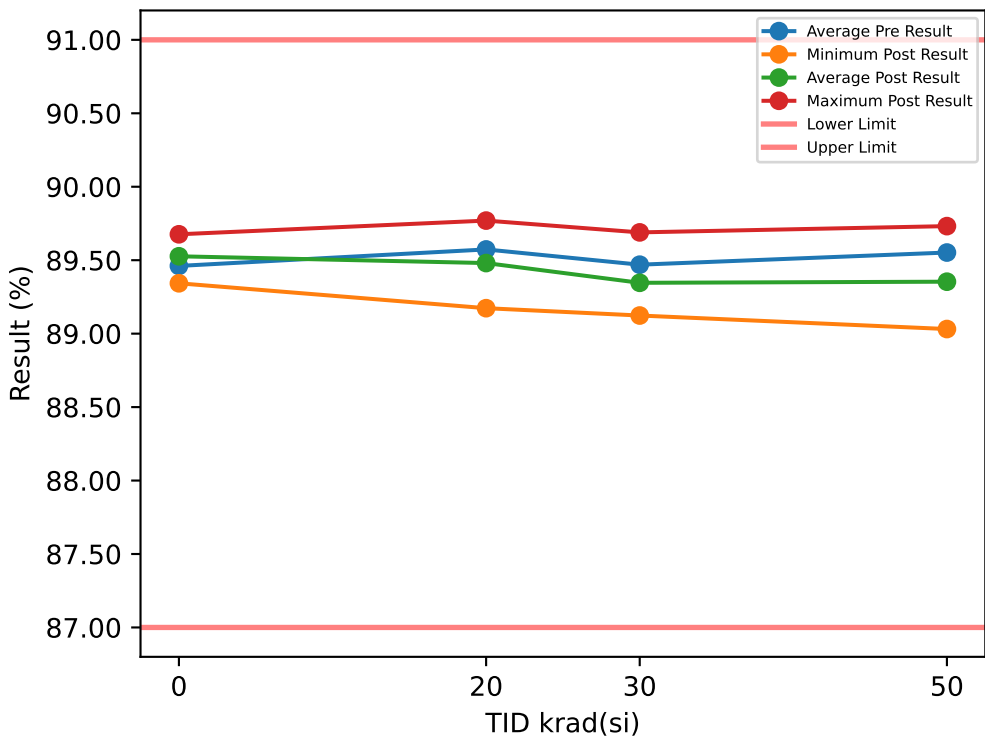| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 89.737 | 89.588 | -0.149 |
| 2 | 20 | Bias | 89.439 | 89.128 | -0.3115 |
| 3 | 20 | Bias | 89.353 | 89.135 | -0.2179 |
| 4 | 20 | Bias | 89.576 | 89.463 | -0.1127 |
| 5 | 20 | Bias | 89.47 | 89.208 | -0.2615 |
| 6 | 20 | Unbiased | 89.558 | 89.558 | 0 |
| 7 | 20 | Unbiased | 89.572 | 89.551 | -0.0201 |
| 8 | 20 | Unbiased | 89.446 | 89.34 | -0.1063 |
| 9 | 20 | Unbiased | 89.571 | 89.584 | 0.0131 |
| 10 | 20 | Unbiased | 89.685 | 89.615 | -0.0697 |
| 11 | 30 | Bias | 89.451 | 89.164 | -0.2873 |
| 12 | 30 | Bias | 89.473 | 89.133 | -0.34 |
| 13 | 30 | Bias | 89.278 | 89.228 | -0.0494 |
| 14 | 30 | Bias | 89.481 | 89.056 | -0.4248 |
| 15 | 30 | Bias | 89.692 | 89.26 | -0.4313 |
| 16 | 30 | Unbiased | 89.45 | 89.573 | 0.1227 |
| 17 | 30 | Unbiased | 89.483 | 89.479 | -0.0037 |
| 18 | 30 | Unbiased | 89.548 | 89.475 | -0.0722 |
| 19 | 30 | Unbiased | 89.352 | 89.485 | 0.1325 |
| 20 | 30 | Unbiased | 89.692 | 89.421 | -0.2702 |
| 21 | 50 | Bias | 89.565 | 89.345 | -0.2201 |
| 22 | 50 | Bias | 89.607 | 89.239 | -0.3679 |
| 23 | 50 | Bias | 89.585 | 89.287 | -0.2984 |
| 24 | 50 | Bias | 89.547 | 89.409 | -0.1379 |
| 25 | 50 | Bias | 89.281 | 88.831 | -0.4501 |
| 26 | 50 | Unbiased | 89.555 | 89.436 | -0.1195 |
| 27 | 50 | Unbiased | 89.661 | 89.69 | 0.0295 |
| 28 | 50 | Unbiased | 89.559 | 89.439 | -0.1197 |
| 29 | 50 | Unbiased | 89.455 | 89.417 | -0.0379 |
| 30 | 50 | Unbiased | 89.513 | 89.552 | 0.0396 |
| 31 | 0 | Correlation | 89.891 | 89.867 | -0.024 |
| 32 | 0 | Correlation | 89.256 | 89.153 | -0.1025 |
| 33 | 0 | Correlation | 89.361 | 89.374 | 0.0131 |
| 34 | 0 | Correlation | 89.334 | 89.498 | 0.1633 |

## Test Statistics (%)
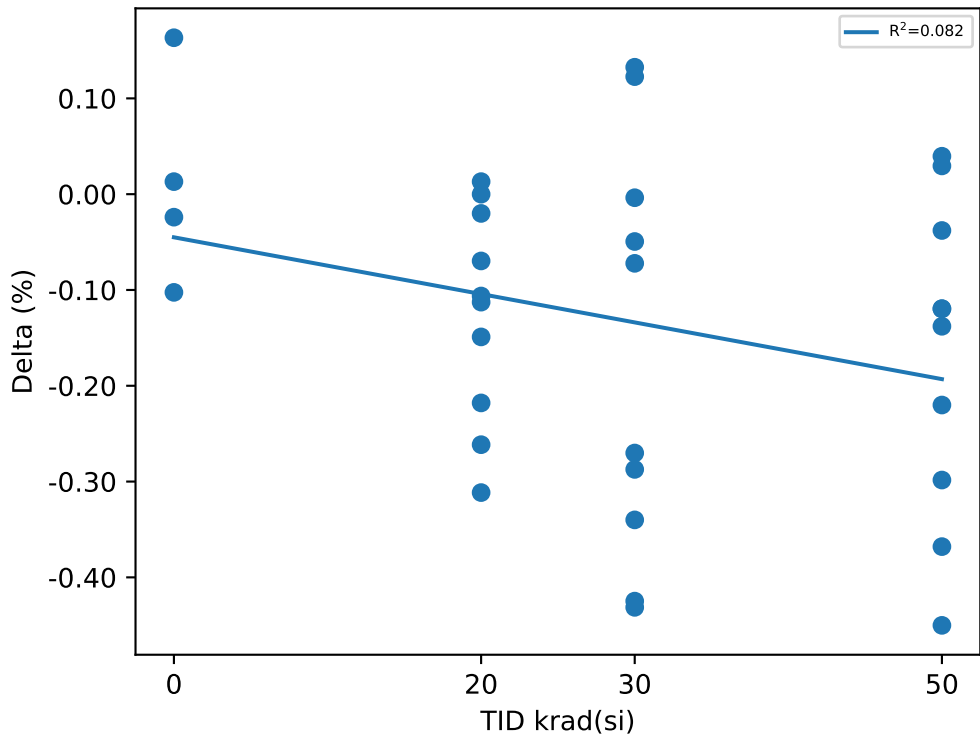
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 89.256 | 89.461 | 89.891 | 0.2906 | 89.153 | 89.473 | 89.867 | 0.29896 | -0.1025 | 0.012475 | 0.1633 | 0.1115 |
| 20 | 89.353 | 89.541 | 89.737 | 0.11666 | 89.128 | 89.417 | 89.615 | 0.19697 | -0.3115 | -0.12356 | 0.0131 | 0.11148 |
| 30 | 89.278 | 89.49 | 89.692 | 0.13005 | 89.056 | 89.328 | 89.573 | 0.17981 | -0.4313 | -0.16237 | 0.1325 | 0.21454 |
| 50 | 89.281 | 89.533 | 89.661 | 0.1037 | 88.831 | 89.365 | 89.69 | 0.22689 | -0.4501 | -0.16824 | 0.0396 | 0.16461 |

# Device Test: 15.15  ILKG_SENSE(_LEAKAGE|SENSE3/SENSE3//3/0/0/0/@ILKG_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

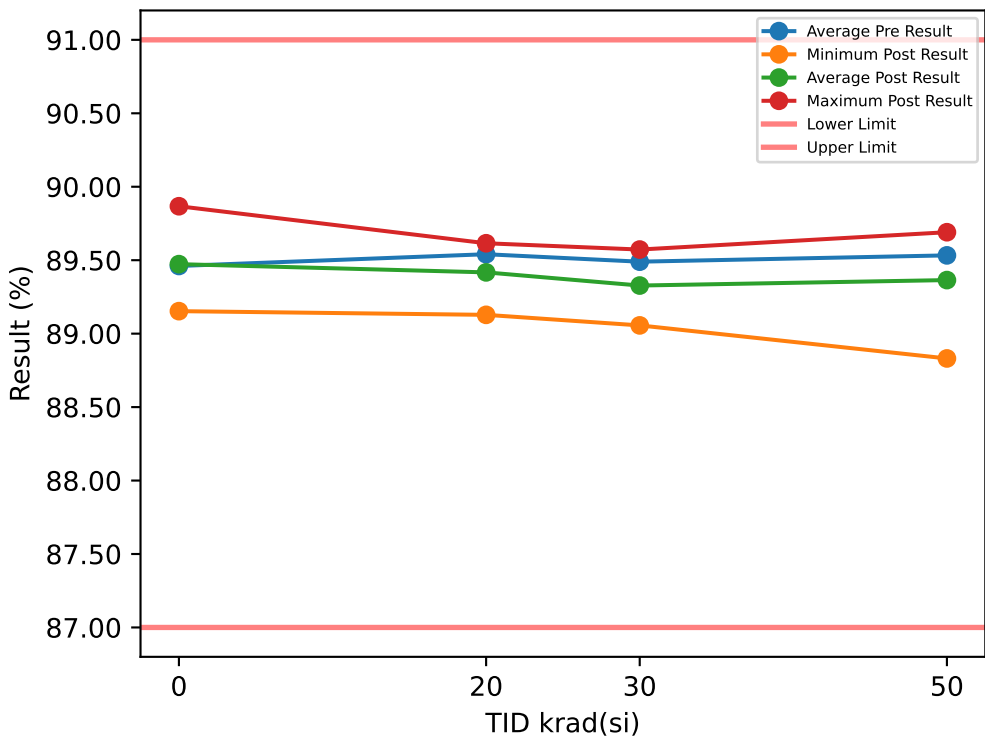| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.4619 | 0.7772 | 0.3153 |
| 2 | 20 | Bias | 0.337 | 0.1497 | -0.1873 |
| 3 | 20 | Bias | 0.0997 | 0.4681 | 0.3684 |
| 4 | 20 | Bias | 0.5181 | 0.3589 | -0.1592 |
| 5 | 20 | Bias | 0.1309 | -0.0533 | -0.1842 |
| 6 | 20 | Unbiased | 0.4619 | 0.5025 | 0.0406 |
| 7 | 20 | Unbiased | 0.5243 | 0.8678 | 0.3435 |
| 8 | 20 | Unbiased | 0.3183 | 0.49 | 0.1717 |
| 9 | 20 | Unbiased | 0.1622 | 0.8397 | 0.6775 |
| 10 | 20 | Unbiased | 0.4713 | 0.4994 | 0.0281 |
| 11 | 30 | Bias | 0.4556 | 0.4834 | 0.0278 |
| 12 | 30 | Bias | 0.9302 | 0.4116 | -0.5186 |
| 13 | 30 | Bias | 0.0591 | 0.5334 | 0.4743 |
| 14 | 30 | Bias | 0.1247 | 0.4803 | 0.3556 |
| 15 | 30 | Bias | 0.6305 | 0.3398 | -0.2907 |
| 16 | 30 | Unbiased | 0.1965 | 0.4366 | 0.2401 |
| 17 | 30 | Unbiased | 0.3089 | 0.4834 | 0.1745 |
| 18 | 30 | Unbiased | 0.0997 | 0.3117 | 0.212 |
| 19 | 30 | Unbiased | 0.1341 | 0.4928 | 0.3587 |
| 20 | 30 | Unbiased | 0.5805 | 0.4116 | -0.1689 |
| 21 | 50 | Bias | 0.6492 | 0.4272 | -0.222 |
| 22 | 50 | Bias | 0.2746 | 0.396 | 0.1214 |
| 23 | 50 | Bias | 0.8085 | 0.371 | -0.4375 |
| 24 | 50 | Bias | 0.8803 | 0.3898 | -0.4905 |
| 25 | 50 | Bias | 0.1341 | 0.515 | 0.3809 |
| 26 | 50 | Unbiased | 0.2527 | 0.1247 | -0.128 |
| 27 | 50 | Unbiased | 0.8584 | 0.0685 | -0.7899 |
| 28 | 50 | Unbiased | 0.0185 | 0.1465 | 0.128 |
| 29 | 50 | Unbiased | 0.2839 | 0.4931 | 0.2092 |
| 30 | 50 | Unbiased | 0.6492 | 0.8241 | 0.1749 |
| 31 | 0 | Correlation | 0.8647 | 0.6274 | -0.2373 |
| 32 | 0 | Correlation | 0.6742 | 0.1309 | -0.5433 |
| 33 | 0 | Correlation | 0.8896 | 0.5524 | -0.3372 |
| 34 | 0 | Correlation | 0.4869 | 0.4588 | -0.0281 |

## Test Statistics (nA)
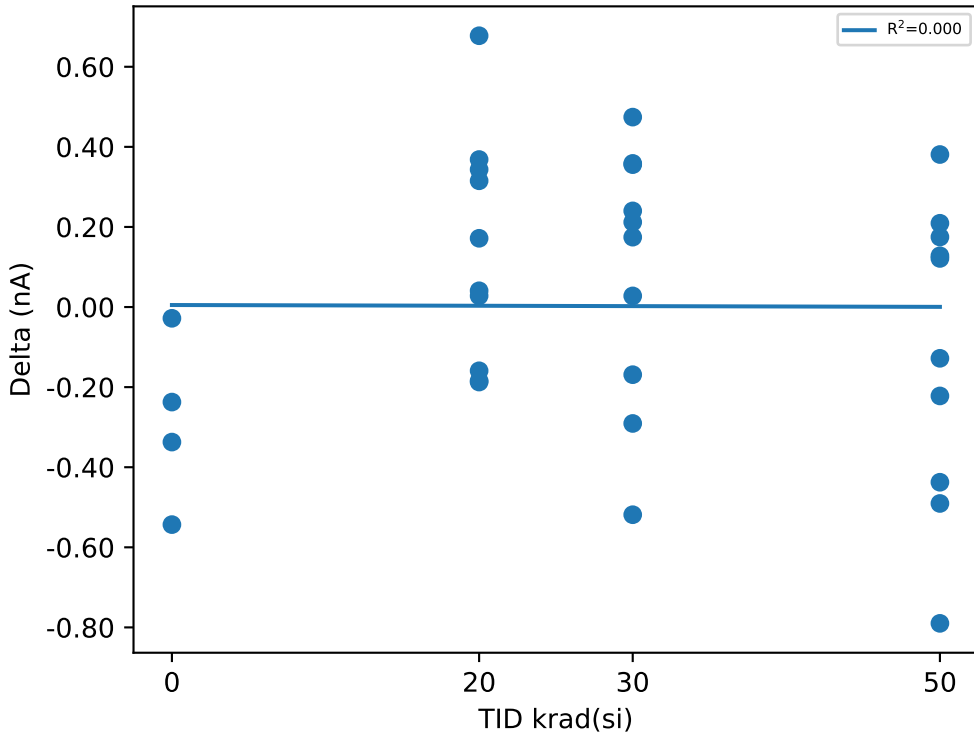
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.4869 | 0.72885 | 0.8896 | 0.18781 | 0.1309 | 0.44237 | 0.6274 | 0.2188 | -0.5433 | -0.28648 | -0.0281 | 0.21425 |
| 20 | 0.0997 | 0.34856 | 0.5243 | 0.16515 | -0.0533 | 0.49 | 0.8678 | 0.29371 | -0.1873 | 0.14144 | 0.6775 | 0.28642 |
| 30 | 0.0591 | 0.35198 | 0.9302 | 0.28857 | 0.3117 | 0.43846 | 0.5334 | 0.070714 | -0.5186 | 0.08648 | 0.4743 | 0.31991 |
| 50 | 0.0185 | 0.48094 | 0.8803 | 0.32206 | 0.0685 | 0.37559 | 0.8241 | 0.22297 | -0.7899 | -0.10535 | 0.3809 | 0.37434 |

# Device Test: 15.150 VTURN_OFF(_EVEL|V_TURNOFF/SENSE4//3/0/0/0/@VTURN_OFF )

## TID vs Result Stats



Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Lower Limit, Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2 = 0.177$

## Test Results (Lower Limit = 87.0, Upper Limit = 91.0 (%))

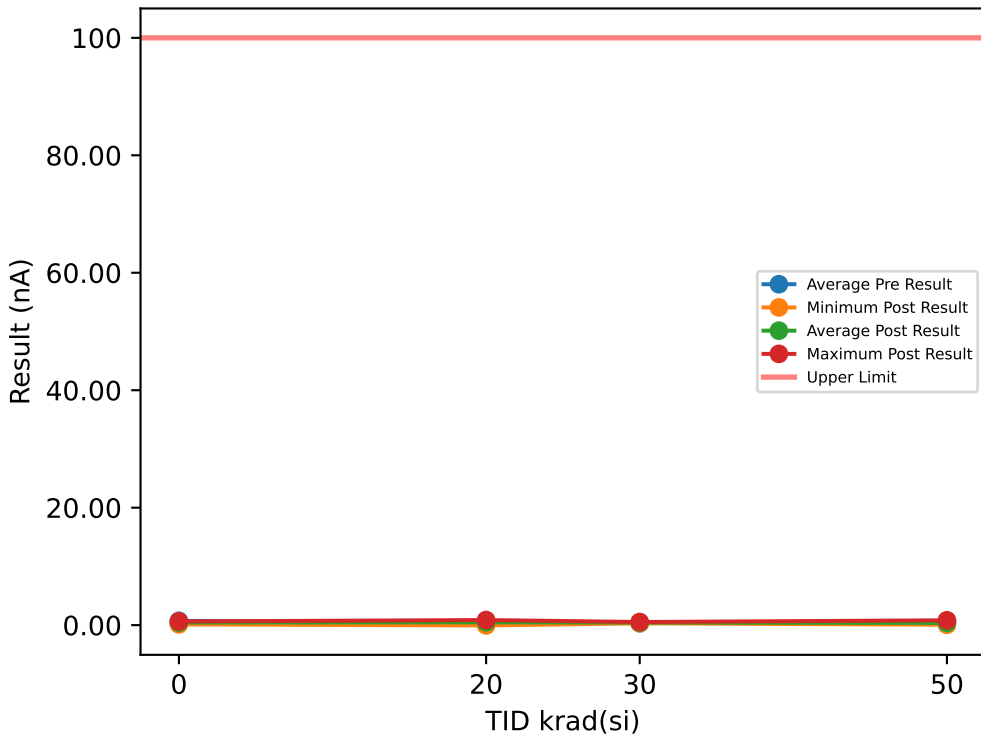| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 89.529 | 89.27 | -0.2591 |
| 2 | 20 | Bias | 89.855 | 89.642 | -0.2127 |
| 3 | 20 | Bias | 89.563 | 89.341 | -0.2218 |
| 4 | 20 | Bias | 89.577 | 89.461 | -0.1165 |
| 5 | 20 | Bias | 89.79 | 89.521 | -0.269 |
| 6 | 20 | Unbiased | 89.457 | 89.559 | 0.1025 |
| 7 | 20 | Unbiased | 89.478 | 89.442 | -0.0353 |
| 8 | 20 | Unbiased | 89.447 | 89.443 | -0.0039 |
| 9 | 20 | Unbiased | 89.576 | 89.574 | -0.0022 |
| 10 | 20 | Unbiased | 89.572 | 89.506 | -0.0659 |
| 11 | 30 | Bias | 89.563 | 89.478 | -0.0843 |
| 12 | 30 | Bias | 89.474 | 89.246 | -0.2281 |
| 13 | 30 | Bias | 89.382 | 89.129 | -0.2526 |
| 14 | 30 | Bias | 89.585 | 89.154 | -0.4309 |
| 15 | 30 | Bias | 89.484 | 89.366 | -0.118 |
| 16 | 30 | Unbiased | 89.758 | 89.469 | -0.2893 |
| 17 | 30 | Unbiased | 89.587 | 89.687 | 0.1006 |
| 18 | 30 | Unbiased | 89.545 | 89.376 | -0.169 |
| 19 | 30 | Unbiased | 89.456 | 89.492 | 0.0354 |
| 20 | 30 | Unbiased | 89.697 | 89.425 | -0.2722 |
| 21 | 50 | Bias | 89.563 | 89.348 | -0.2145 |
| 22 | 50 | Bias | 89.608 | 89.246 | -0.3623 |
| 23 | 50 | Bias | 89.484 | 89.286 | -0.1979 |
| 24 | 50 | Bias | 89.548 | 89.203 | -0.3452 |
| 25 | 50 | Bias | 89.389 | 89.138 | -0.2517 |
| 26 | 50 | Unbiased | 89.545 | 89.437 | -0.108 |
| 27 | 50 | Unbiased | 89.445 | 89.276 | -0.1689 |
| 28 | 50 | Unbiased | 89.552 | 89.433 | -0.1197 |
| 29 | 50 | Unbiased | 89.772 | 89.73 | -0.0415 |
| 30 | 50 | Unbiased | 89.506 | 89.553 | 0.0472 |
| 31 | 0 | Correlation | 89.684 | 89.652 | -0.0315 |
| 32 | 0 | Correlation | 89.572 | 89.568 | -0.0038 |
| 33 | 0 | Correlation | 89.678 | 89.684 | 0.0054 |
| 34 | 0 | Correlation | 89.438 | 89.712 | 0.2735 |

## Test Statistics (%)
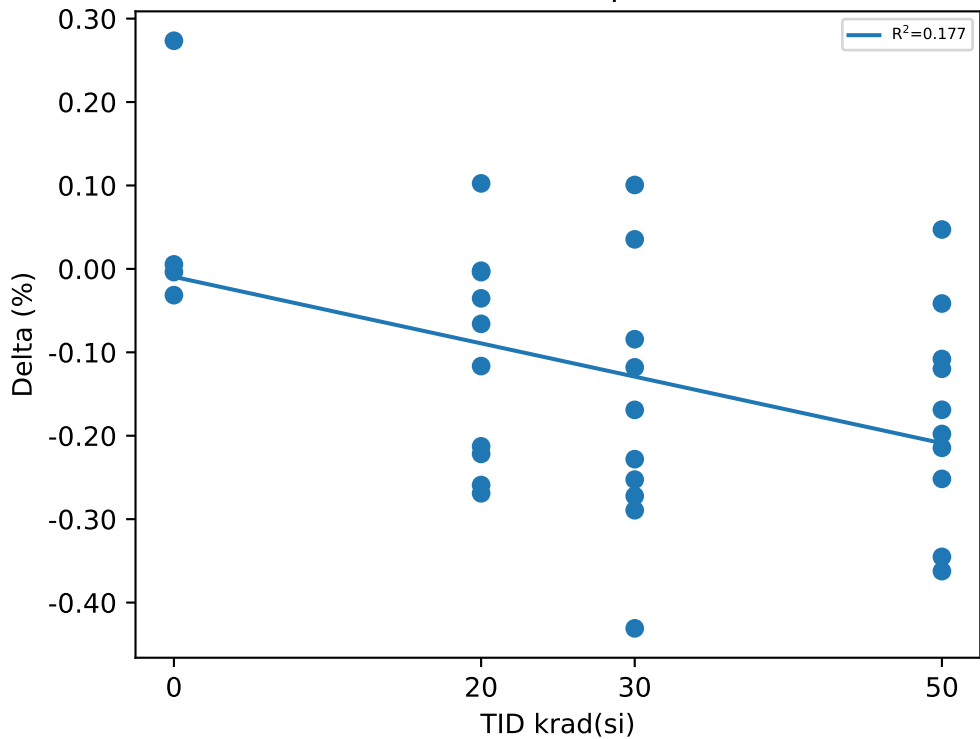
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 89.438 | 89.593 | 89.684 | 0.11547 | 89.568 | 89.654 | 89.712 | 0.062089 | -0.0315 | 0.0609 | 0.2735 | 0.1426 |
| 20 | 89.447 | 89.584 | 89.855 | 0.13573 | 89.27 | 89.476 | 89.642 | 0.11052 | -0.269 | -0.10839 | 0.1025 | 0.12742 |
| 30 | 89.382 | 89.553 | 89.758 | 0.11303 | 89.129 | 89.382 | 89.687 | 0.16955 | -0.4309 | -0.17084 | 0.1006 | 0.1593 |
| 50 | 89.389 | 89.541 | 89.772 | 0.10274 | 89.138 | 89.365 | 89.73 | 0.17801 | -0.3623 | -0.17625 | 0.0472 | 0.12771 |

# Device Test: 15.151 T_SD(_TIMING|START/IN//12/0/0/0/@T_SD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



R²=0.194

## Test Results (Upper Limit = 2.8 (mSec))

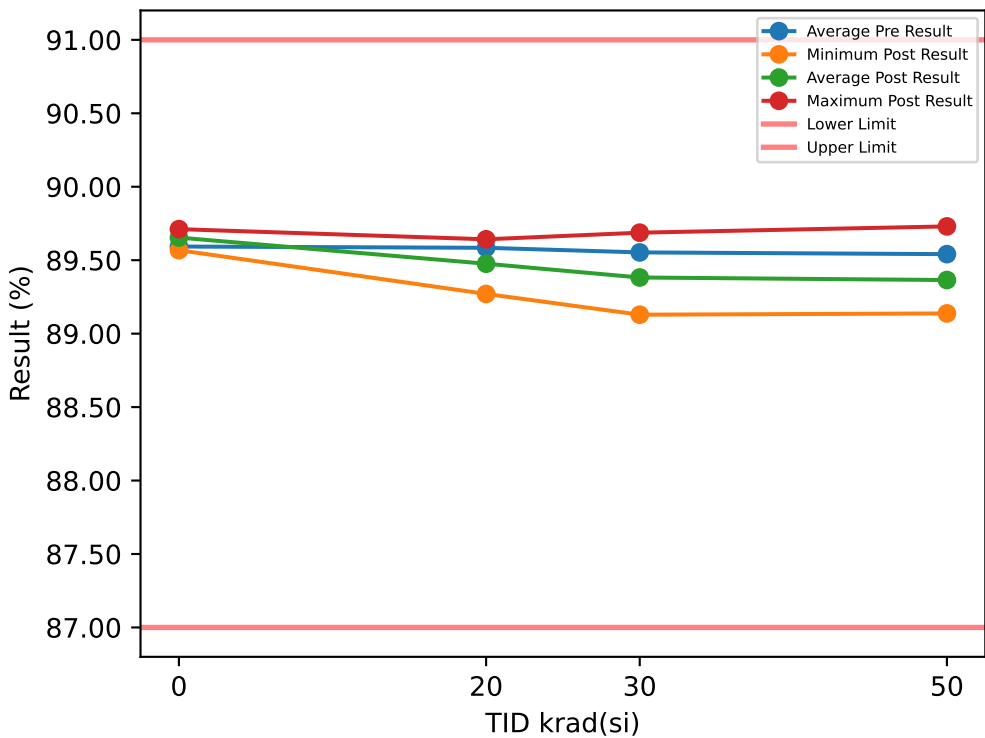| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.8669 | 0.8995 | 0.0326 |
| 2 | 20 | Bias | 0.8701 | 0.8983 | 0.0282 |
| 3 | 20 | Bias | 0.8583 | 0.8817 | 0.0234 |
| 4 | 20 | Bias | 0.8429 | 0.8647 | 0.0218 |
| 5 | 20 | Bias | 0.8315 | 0.8522 | 0.0207 |
| 6 | 20 | Unbiased | 0.843 | 0.8699 | 0.0269 |
| 7 | 20 | Unbiased | 0.8495 | 0.8721 | 0.0226 |
| 8 | 20 | Unbiased | 0.8497 | 0.8788 | 0.0291 |
| 9 | 20 | Unbiased | 0.8378 | 0.8598 | 0.022 |
| 10 | 20 | Unbiased | 0.857 | 0.8768 | 0.0198 |
| 11 | 30 | Bias | 0.857 | 0.8769 | 0.0199 |
| 12 | 30 | Bias | 0.8536 | 0.8698 | 0.0162 |
| 13 | 30 | Bias | 0.8647 | 0.8686 | 0.0039 |
| 14 | 30 | Bias | 0.8613 | 0.8774 | 0.0161 |
| 15 | 30 | Bias | 0.8519 | 0.877 | 0.0251 |
| 16 | 30 | Unbiased | 0.8367 | 0.8678 | 0.0311 |
| 17 | 30 | Unbiased | 0.8422 | 0.8546 | 0.0124 |
| 18 | 30 | Unbiased | 0.8445 | 0.8596 | 0.0151 |
| 19 | 30 | Unbiased | 0.8521 | 0.861 | 0.0089 |
| 20 | 30 | Unbiased | 0.8445 | 0.8674 | 0.0229 |
| 21 | 50 | Bias | 0.8433 | 0.8648 | 0.0215 |
| 22 | 50 | Bias | 0.876 | 0.8653 | -0.0107 |
| 23 | 50 | Bias | 0.8549 | 0.8976 | 0.0427 |
| 24 | 50 | Bias | 0.8609 | 0.8752 | 0.0143 |
| 25 | 50 | Bias | 0.8351 | 0.869 | 0.0339 |
| 26 | 50 | Unbiased | 0.847 | 0.8888 | 0.0418 |
| 27 | 50 | Unbiased | 0.8619 | 0.8995 | 0.0376 |
| 28 | 50 | Unbiased | 0.8555 | 0.8931 | 0.0376 |
| 29 | 50 | Unbiased | 0.8543 | 0.8952 | 0.0409 |
| 30 | 50 | Unbiased | 0.8381 | 0.8728 | 0.0347 |
| 31 | 0 | Correlation | 0.8689 | 0.8724 | 0.0035 |
| 32 | 0 | Correlation | 0.8543 | 0.8584 | 0.0041 |
| 33 | 0 | Correlation | 0.8509 | 0.8551 | 0.0042 |
| 34 | 0 | Correlation | 0.8395 | 0.8588 | 0.0193 |

## Test Statistics (mSec)
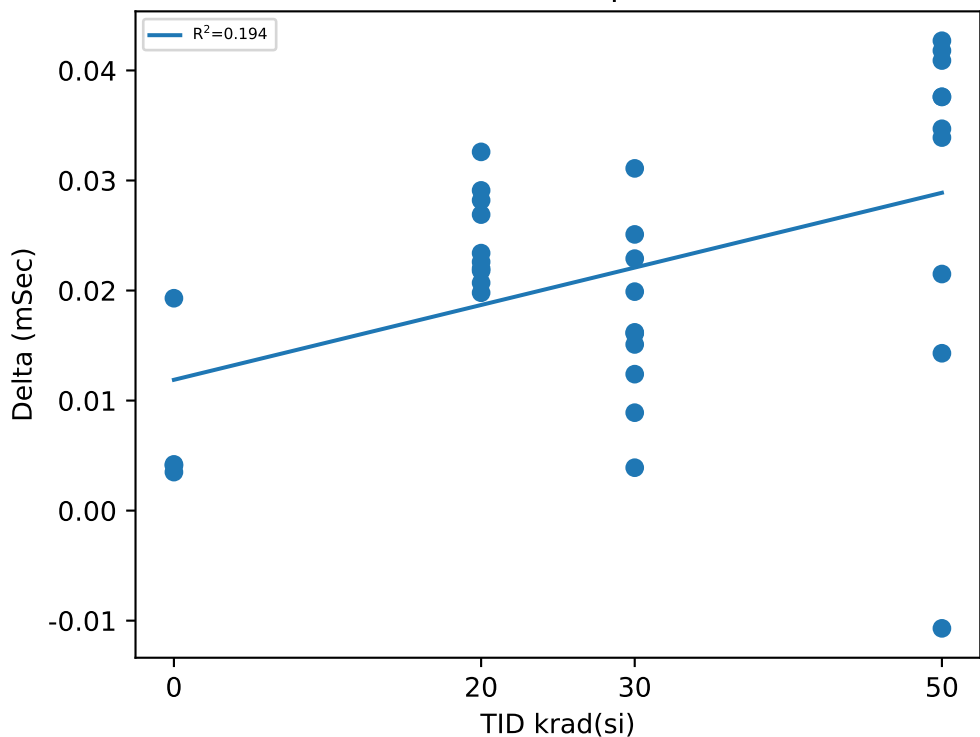
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.8395 | 0.8534 | 0.8689 | 0.012118 | 0.8551 | 0.86118 | 0.8724 | 0.0076648 | 0.0035 | 0.007775 | 0.0193 | 0.0076895 |
| 20 | 0.8315 | 0.85067 | 0.8701 | 0.012445 | 0.8522 | 0.87538 | 0.8995 | 0.015259 | 0.0198 | 0.02471 | 0.0326 | 0.0042252 |
| 30 | 0.8367 | 0.85085 | 0.8647 | 0.0088491 | 0.8546 | 0.86801 | 0.8774 | 0.0078294 | 0.0039 | 0.01716 | 0.0311 | 0.007964 |
| 50 | 0.8351 | 0.8527 | 0.876 | 0.012265 | 0.8648 | 0.88213 | 0.8995 | 0.014015 | -0.0107 | 0.02943 | 0.0427 | 0.016813 |

# Device Test: 15.152 PULL_UP_LKG(_LEAKAGE|MIN/PULLUP1/7/3////@PULL_UP_LKG )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 121.0 (uA))

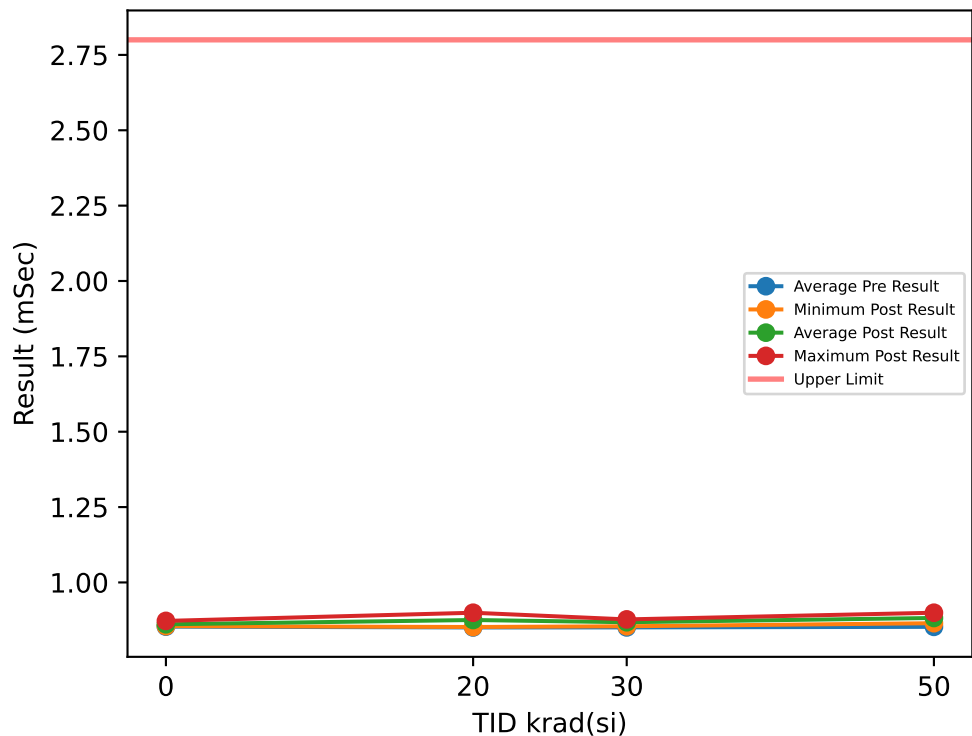| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.998 | 22.789 | -0.2093 |
| 2 | 20 | Bias | 23.035 | 22.847 | -0.1883 |
| 3 | 20 | Bias | 23.069 | 22.915 | -0.1545 |
| 4 | 20 | Bias | 22.549 | 22.404 | -0.1444 |
| 5 | 20 | Bias | 23.206 | 23.045 | -0.1608 |
| 6 | 20 | Unbiased | 23.013 | 22.825 | -0.188 |
| 7 | 20 | Unbiased | 23.091 | 22.956 | -0.1348 |
| 8 | 20 | Unbiased | 22.441 | 22.298 | -0.1429 |
| 9 | 20 | Unbiased | 23.18 | 23.048 | -0.1319 |
| 10 | 20 | Unbiased | 22.996 | 22.879 | -0.1169 |
| 11 | 30 | Bias | 22.987 | 23.191 | 0.2044 |
| 12 | 30 | Bias | 23.004 | 22.84 | -0.164 |
| 13 | 30 | Bias | 23.201 | 22.862 | -0.3391 |
| 14 | 30 | Bias | 23.282 | 23.061 | -0.2214 |
| 15 | 30 | Bias | 23.066 | 23.153 | 0.0865 |
| 16 | 30 | Unbiased | 22.92 | 22.941 | 0.0205 |
| 17 | 30 | Unbiased | 23.221 | 22.818 | -0.4025 |
| 18 | 30 | Unbiased | 23.243 | 23.133 | -0.1098 |
| 19 | 30 | Unbiased | 23.064 | 23.146 | 0.0814 |
| 20 | 30 | Unbiased | 23.286 | 22.975 | -0.311 |
| 21 | 50 | Bias | 23.194 | 23.186 | -0.0072 |
| 22 | 50 | Bias | 23.047 | 23.096 | 0.049 |
| 23 | 50 | Bias | 23.424 | 22.969 | -0.4551 |
| 24 | 50 | Bias | 22.968 | 23.311 | 0.3438 |
| 25 | 50 | Bias | 23.338 | 23.262 | -0.0758 |
| 26 | 50 | Unbiased | 22.966 | 22.947 | -0.0195 |
| 27 | 50 | Unbiased | 23.052 | 23.017 | -0.0348 |
| 28 | 50 | Unbiased | 23.105 | 23.065 | -0.0401 |
| 29 | 50 | Unbiased | 23.078 | 23.044 | -0.0338 |
| 30 | 50 | Unbiased | 23.202 | 23.166 | -0.0357 |
| 31 | 0 | Correlation | 23.106 | 23.094 | -0.0128 |
| 32 | 0 | Correlation | 23.277 | 23.269 | -0.0081 |
| 33 | 0 | Correlation | 23.25 | 23.246 | -0.0041 |
| 34 | 0 | Correlation | 23.169 | 23.347 | 0.1786 |

## Test Statistics (uA)
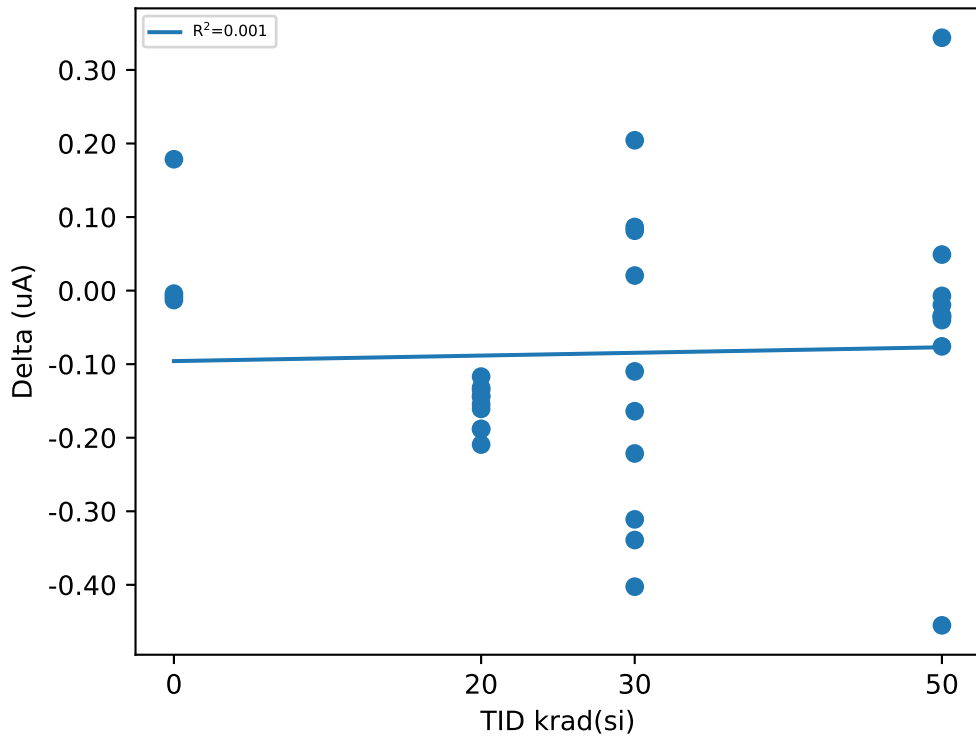
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.106 | 23.2 | 23.277 | 0.077712 | 23.094 | 23.239 | 23.347 | 0.10618 | -0.0128 | 0.0384 | 0.1786 | 0.093534 |
| 20 | 22.441 | 22.958 | 23.206 | 0.25556 | 22.298 | 22.8 | 23.048 | 0.25321 | -0.2093 | -0.15718 | -0.1169 | 0.02941 |
| 30 | 22.92 | 23.127 | 23.286 | 0.13406 | 22.818 | 23.012 | 23.191 | 0.14263 | -0.4025 | -0.1155 | 0.2044 | 0.20672 |
| 50 | 22.966 | 23.137 | 23.424 | 0.15207 | 22.947 | 23.106 | 23.311 | 0.12208 | -0.4551 | -0.03092 | 0.3438 | 0.19136 |

# Device Test: 15.153 PULL_UP_LKG(_LEAKAGE|MIN/PULLUP2/7/3////@PULL_UP_LKG )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 121.0 (uA))

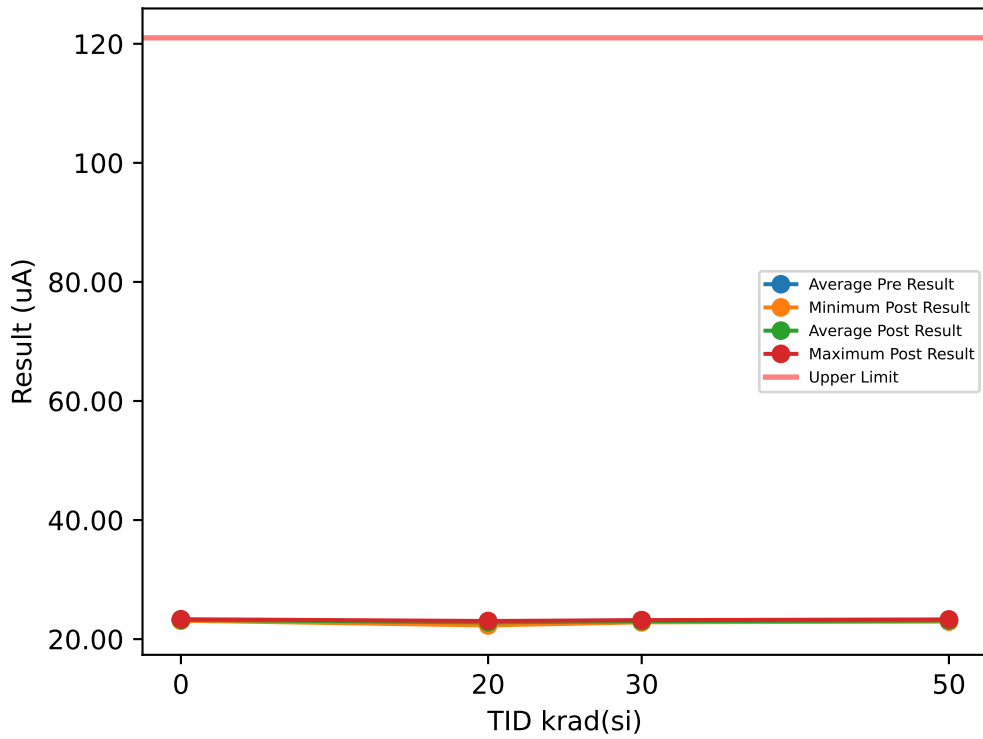| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | -0.0113 | -0.0078 | 0.0035 |
| 2 | 20 | Bias | -0.0134 | -0.01 | 0.0034 |
| 3 | 20 | Bias | -0.0091 | -0.0144 | -0.0053 |
| 4 | 20 | Bias | -0.0172 | -0.0037 | 0.0135 |
| 5 | 20 | Bias | -0.0106 | -0.0084 | 0.0022 |
| 6 | 20 | Unbiased | -0.0119 | -0.0109 | 0.001 |
| 7 | 20 | Unbiased | -0.0144 | -0.0141 | 0.0003 |
| 8 | 20 | Unbiased | -0.0072 | -0.0066 | 0.0006 |
| 9 | 20 | Unbiased | -0.004 | -0.0147 | -0.0107 |
| 10 | 20 | Unbiased | -0.0131 | -0.0056 | 0.0075 |
| 11 | 30 | Bias | -0.0044 | 0.0008 | 0.0052 |
| 12 | 30 | Bias | -0.0097 | 0.0015 | 0.0112 |
| 13 | 30 | Bias | -0.0031 | -0.002 | 0.0011 |
| 14 | 30 | Bias | -0.0097 | 0.0002 | 0.0099 |
| 15 | 30 | Bias | -0.0141 | -0.0029 | 0.0112 |
| 16 | 30 | Unbiased | -0.0044 | 0.003 | 0.0074 |
| 17 | 30 | Unbiased | -0.004 | -0.001 | 0.003 |
| 18 | 30 | Unbiased | -0.0094 | 0.0049 | 0.0143 |
| 19 | 30 | Unbiased | -0.0125 | 0.003 | 0.0155 |
| 20 | 30 | Unbiased | -0.0037 | -0.0017 | 0.002 |
| 21 | 50 | Bias | -0.0047 | 0.0077 | 0.0124 |
| 22 | 50 | Bias | -0.0103 | -0.0004 | 0.0099 |
| 23 | 50 | Bias | -0.0069 | 0.0037 | 0.0106 |
| 24 | 50 | Bias | -0.0044 | -0.0045 | -0.0001 |
| 25 | 50 | Bias | -0.01 | -0.005 | 0.005 |
| 26 | 50 | Unbiased | -0.0075 | -0.0047 | 0.0028 |
| 27 | 50 | Unbiased | -0.0141 | -0.0075 | 0.0066 |
| 28 | 50 | Unbiased | -0.0134 | -0.0044 | 0.009 |
| 29 | 50 | Unbiased | -0.0069 | -0.0047 | 0.0022 |
| 30 | 50 | Unbiased | -0.0009 | -0.0044 | -0.0035 |
| 31 | 0 | Correlation | -0.0056 | -0.005 | 0.0006 |
| 32 | 0 | Correlation | -0.0097 | -0.0141 | -0.0044 |
| 33 | 0 | Correlation | -0.0075 | -0.0141 | -0.0066 |
| 34 | 0 | Correlation | -0.0069 | -0.0069 | 0 |

## Test Statistics (uA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | -0.0097 | -0.007425 | -0.0056 | 0.0017115 | -0.0141 | -0.010025 | -0.005 | 0.0047689 | -0.0066 | -0.0026 | 0.0006 | 0.0034756 |
| 20 | -0.0172 | -0.01122 | -0.004 | 0.0037682 | -0.0147 | -0.00962 | -0.0037 | 0.0038821 | -0.0107 | 0.0016 | 0.0135 | 0.0065454 |
| 30 | -0.0141 | -0.0075 | -0.0031 | 0.0040431 | -0.0029 | 0.00058 | 0.0049 | 0.0025359 | 0.0011 | 0.00808 | 0.0155 | 0.0051292 |
| 50 | -0.0141 | -0.00791 | -0.0009 | 0.0041165 | -0.0075 | -0.00242 | 0.0077 | 0.004702 | -0.0035 | 0.00549 | 0.0124 | 0.0051341 |

# Device Test: 15.154 PULL_UP_LKG(_LEAKAGE|MAX/PULLUP1/7/14////@PULL_UP_LKG )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 121.0 (uA))

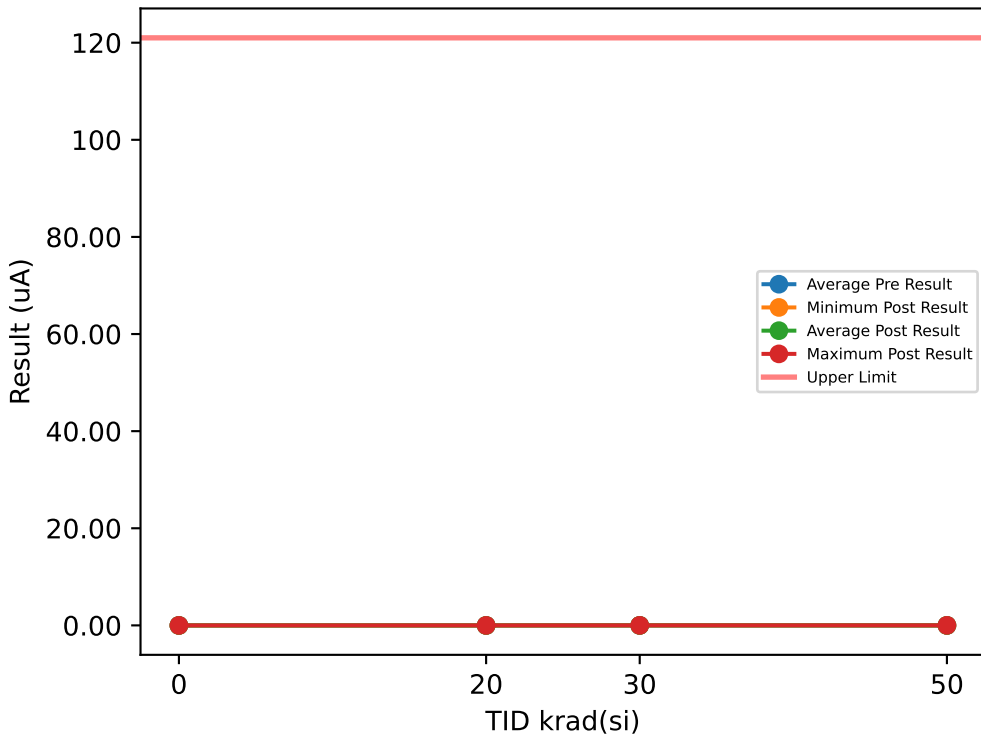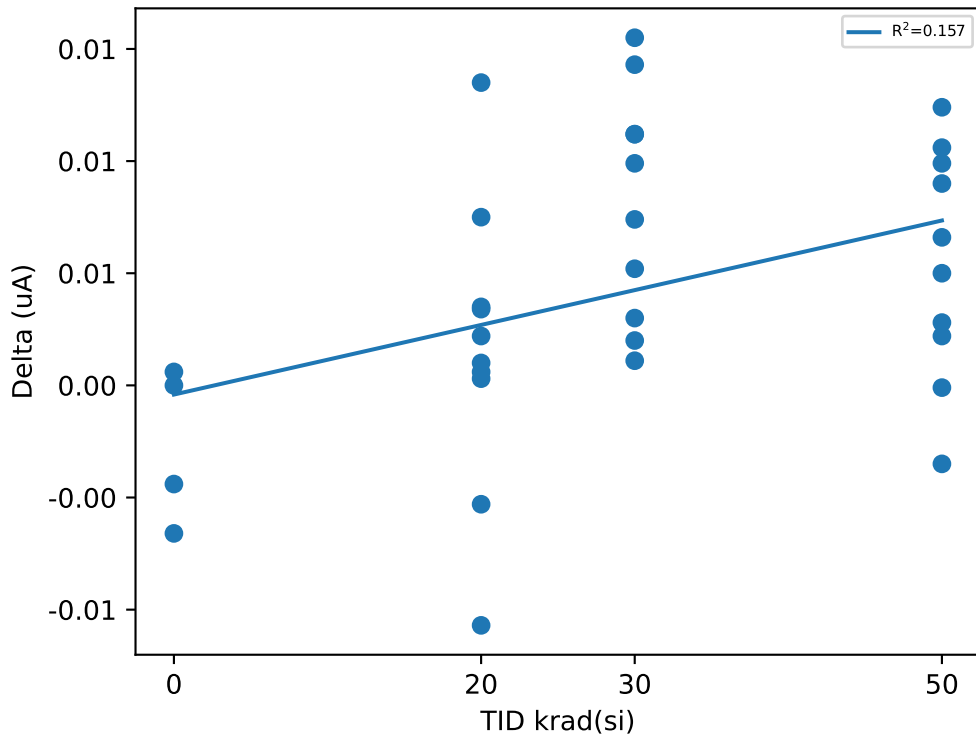| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.002 | 22.796 | -0.2056 |
| 2 | 20 | Bias | 23.037 | 22.857 | -0.1802 |
| 3 | 20 | Bias | 23.07 | 22.923 | -0.1467 |
| 4 | 20 | Bias | 22.555 | 22.397 | -0.1586 |
| 5 | 20 | Bias | 23.2 | 23.047 | -0.153 |
| 6 | 20 | Unbiased | 23.009 | 22.817 | -0.1927 |
| 7 | 20 | Unbiased | 23.088 | 22.958 | -0.1301 |
| 8 | 20 | Unbiased | 22.442 | 22.299 | -0.1432 |
| 9 | 20 | Unbiased | 23.175 | 23.037 | -0.1382 |
| 10 | 20 | Unbiased | 22.993 | 22.873 | -0.1203 |
| 11 | 30 | Bias | 22.987 | 23.184 | 0.1968 |
| 12 | 30 | Bias | 23.006 | 22.833 | -0.1728 |
| 13 | 30 | Bias | 23.205 | 22.858 | -0.3473 |
| 14 | 30 | Bias | 23.277 | 23.063 | -0.2133 |
| 15 | 30 | Bias | 23.065 | 23.151 | 0.0858 |
| 16 | 30 | Unbiased | 22.923 | 22.942 | 0.0196 |
| 17 | 30 | Unbiased | 23.228 | 22.813 | -0.4144 |
| 18 | 30 | Unbiased | 23.24 | 23.136 | -0.1048 |
| 19 | 30 | Unbiased | 23.065 | 23.141 | 0.0761 |
| 20 | 30 | Unbiased | 23.276 | 22.968 | -0.3082 |
| 21 | 50 | Bias | 23.195 | 23.186 | -0.0087 |
| 22 | 50 | Bias | 23.039 | 23.096 | 0.0565 |
| 23 | 50 | Bias | 23.424 | 22.97 | -0.4539 |
| 24 | 50 | Bias | 22.961 | 23.313 | 0.3513 |
| 25 | 50 | Bias | 23.331 | 23.255 | -0.0762 |
| 26 | 50 | Unbiased | 22.956 | 22.957 | 0.0004 |
| 27 | 50 | Unbiased | 23.047 | 23.02 | -0.0279 |
| 28 | 50 | Unbiased | 23.102 | 23.068 | -0.0345 |
| 29 | 50 | Unbiased | 23.078 | 23.041 | -0.0366 |
| 30 | 50 | Unbiased | 23.199 | 23.164 | -0.0348 |
| 31 | 0 | Correlation | 23.108 | 23.086 | -0.0219 |
| 32 | 0 | Correlation | 23.28 | 23.273 | -0.0075 |
| 33 | 0 | Correlation | 23.25 | 23.243 | -0.0072 |
| 34 | 0 | Correlation | 23.174 | 23.342 | 0.168 |

## Test Statistics (uA)
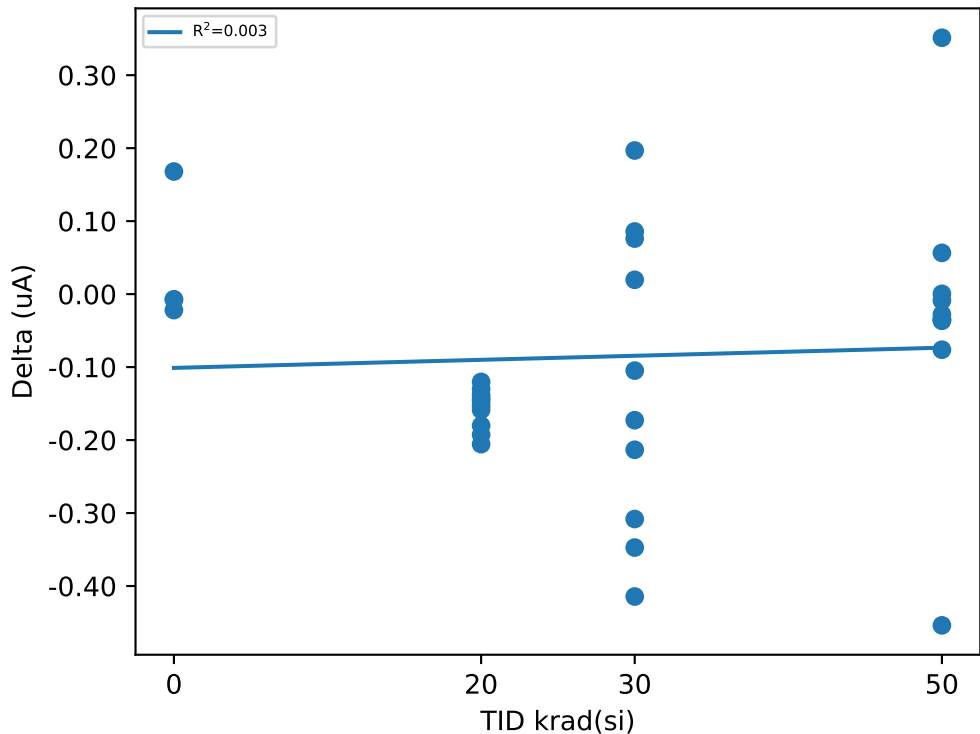
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.108 | 23.203 | 23.28 | 0.077809 | 23.086 | 23.236 | 23.342 | 0.10827 | -0.0219 | 0.03285 | 0.168 | 0.090361 |
| 20 | 22.442 | 22.957 | 23.2 | 0.25284 | 22.299 | 22.8 | 23.047 | 0.2538 | -0.2056 | -0.15686 | -0.1203 | 0.027716 |
| 30 | 22.923 | 23.127 | 23.277 | 0.13209 | 22.813 | 23.009 | 23.184 | 0.14352 | -0.4144 | -0.11825 | 0.1968 | 0.20713 |
| 50 | 22.956 | 23.133 | 23.424 | 0.15377 | 22.957 | 23.107 | 23.313 | 0.11969 | -0.4539 | -0.02644 | 0.3513 | 0.19323 |

# Device Test: 15.155 PULL_UP_LKG(_LEAKAGE|MAX/PULLUP2/7/14////@PULL_UP_LKG )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



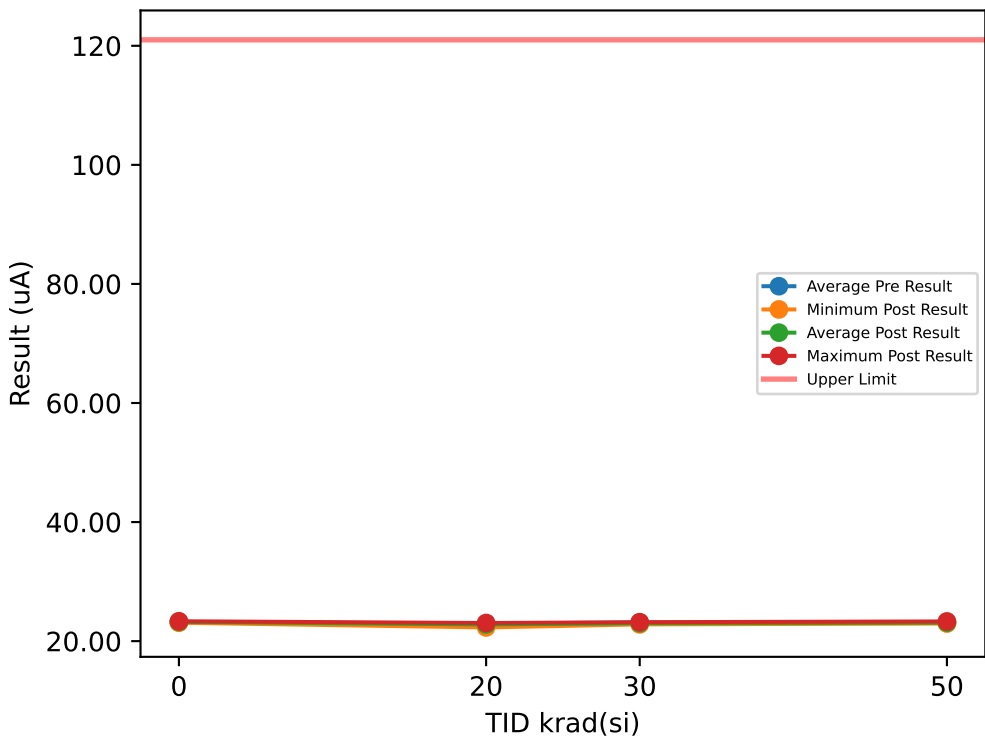## Test Results (Upper Limit = 121.0 (uA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | -0.0125 | -0.016 | -0.0035 |
| 2 | 20 | Bias | -0.0116 | -0.0072 | 0.0044 |
| 3 | 20 | Bias | -0.0128 | -0.0113 | 0.0015 |
| 4 | 20 | Bias | -0.0181 | -0.005 | 0.0131 |
| 5 | 20 | Bias | -0.0066 | -0.0072 | -0.0006 |
| 6 | 20 | Unbiased | -0.004 | -0.0087 | -0.0047 |
| 7 | 20 | Unbiased | -0.0097 | -0.0116 | -0.0019 |
| 8 | 20 | Unbiased | -0.0015 | -0.0084 | -0.0069 |
| 9 | 20 | Unbiased | -0.0059 | -0.0138 | -0.0079 |
| 10 | 20 | Unbiased | -0.0122 | -0.0062 | 0.006 |
| 11 | 30 | Bias | -0.0081 | -0.0029 | 0.0052 |
| 12 | 30 | Bias | -0.0116 | -0.0004 | 0.0112 |
| 13 | 30 | Bias | -0.0075 | -0.0032 | 0.0043 |
| 14 | 30 | Bias | -0.0141 | 0.0074 | 0.0215 |
| 15 | 30 | Bias | -0.0028 | -0.001 | 0.0018 |
| 16 | 30 | Unbiased | -0.0181 | 0.0052 | 0.0233 |
| 17 | 30 | Unbiased | -0.0087 | -0.0001 | 0.0086 |
| 18 | 30 | Unbiased | -0.0144 | 0.0008 | 0.0152 |
| 19 | 30 | Unbiased | -0.004 | 0.004 | 0.008 |
| 20 | 30 | Unbiased | -0.0078 | 0.0002 | 0.008 |
| 21 | 50 | Bias | -0.0084 | 0.0071 | 0.0155 |
| 22 | 50 | Bias | -0.0125 | -0.0036 | 0.0089 |
| 23 | 50 | Bias | -0.0081 | -0.0007 | 0.0074 |
| 24 | 50 | Bias | -0.0053 | 0.0027 | 0.008 |
| 25 | 50 | Bias | -0.0169 | 0.0007 | 0.0176 |
| 26 | 50 | Unbiased | -0.0147 | -0.0081 | 0.0066 |
| 27 | 50 | Unbiased | -0.0084 | -0.0025 | 0.0059 |
| 28 | 50 | Unbiased | -0.0097 | -0.0075 | 0.0022 |
| 29 | 50 | Unbiased | -0.0141 | 0.0032 | 0.0173 |
| 30 | 50 | Unbiased | -0.0103 | -0.0103 | 0 |
| 31 | 0 | Correlation | -0.0097 | -0.0113 | -0.0016 |
| 32 | 0 | Correlation | -0.0053 | -0.0094 | -0.0041 |
| 33 | 0 | Correlation | -0.0091 | -0.0125 | -0.0034 |
| 34 | 0 | Correlation | -0.0103 | -0.0119 | -0.0016 |

## Test Statistics (uA)
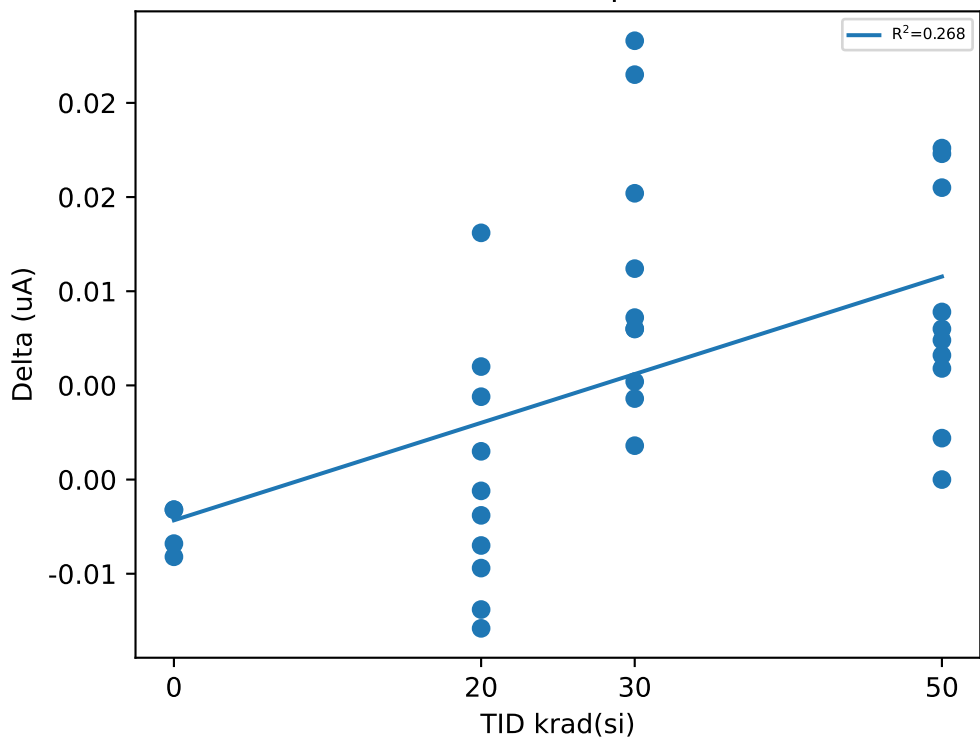
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | -0.0103 | -0.0086 | -0.0053 | 0.0022539 | -0.0125 | -0.011275 | -0.0094 | 0.0013426 | -0.0041 | -0.002675 | -0.0016 | 0.0012738 |
| 20 | -0.0181 | -0.00949 | -0.0015 | 0.0049577 | -0.016 | -0.00954 | -0.005 | 0.0035268 | -0.0079 | -5e-05 | 0.0131 | 0.0064767 |
| 30 | -0.0181 | -0.00971 | -0.0028 | 0.0048043 | -0.0032 | 0.001 | 0.0074 | 0.0034689 | 0.0018 | 0.01071 | 0.0233 | 0.0071903 |
| 50 | -0.0169 | -0.01084 | -0.0053 | 0.003601 | -0.0103 | -0.0019 | 0.0071 | 0.0055775 | 0 | 0.00894 | 0.0176 | 0.0060667 |

# Device Test: 15.16  ILKG_SENSE(_LEAKAGE|SENSE4/SENSE4//3/0/0/0/@ILKG_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

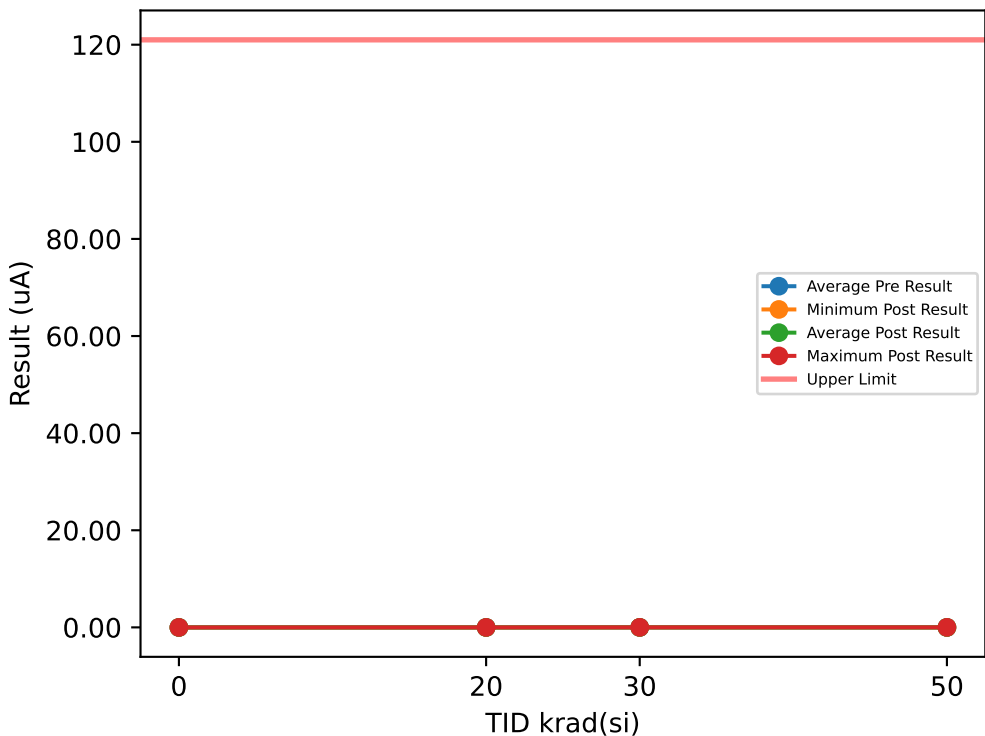| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.3096 | 0.2783 | -0.0313 |
| 2 | 20 | Bias | 0.2502 | 0.4001 | 0.1499 |
| 3 | 20 | Bias | 0.347 | 0.3377 | -0.0093 |
| 4 | 20 | Bias | 0.2877 | 0.3345 | 0.0468 |
| 5 | 20 | Bias | 0.3064 | 0.4001 | 0.0937 |
| 6 | 20 | Unbiased | 0.397 | 0.3783 | -0.0187 |
| 7 | 20 | Unbiased | 0.3439 | 0.2908 | -0.0531 |
| 8 | 20 | Unbiased | 0.397 | 0.3127 | -0.0843 |
| 9 | 20 | Unbiased | 0.4032 | 0.4001 | -0.0031 |
| 10 | 20 | Unbiased | 0.4095 | 0.3283 | -0.0812 |
| 11 | 30 | Bias | 0.3314 | 0.4621 | 0.1307 |
| 12 | 30 | Bias | 0.3345 | 0.5245 | 0.19 |
| 13 | 30 | Bias | 0.3533 | 0.4933 | 0.14 |
| 14 | 30 | Bias | 0.2783 | 0.5089 | 0.2306 |
| 15 | 30 | Bias | 0.2908 | 0.4871 | 0.1963 |
| 16 | 30 | Unbiased | 0.2596 | 0.4902 | 0.2306 |
| 17 | 30 | Unbiased | 0.2658 | 0.5089 | 0.2431 |
| 18 | 30 | Unbiased | 0.269 | 0.4371 | 0.1681 |
| 19 | 30 | Unbiased | 0.3345 | 0.484 | 0.1495 |
| 20 | 30 | Unbiased | 0.347 | 0.5245 | 0.1775 |
| 21 | 50 | Bias | 0.3533 | 0.5121 | 0.1588 |
| 22 | 50 | Bias | 0.3876 | 0.5027 | 0.1151 |
| 23 | 50 | Bias | 0.3189 | 0.3872 | 0.0683 |
| 24 | 50 | Bias | 0.3751 | 0.4808 | 0.1057 |
| 25 | 50 | Bias | 0.3189 | 0.3252 | 0.0063 |
| 26 | 50 | Unbiased | 0.3595 | 0.2971 | -0.0624 |
| 27 | 50 | Unbiased | 0.3751 | 0.3377 | -0.0374 |
| 28 | 50 | Unbiased | 0.3595 | 0.3783 | 0.0188 |
| 29 | 50 | Unbiased | 0.4501 | 0.3626 | -0.0875 |
| 30 | 50 | Unbiased | 0.3283 | 0.2846 | -0.0437 |
| 31 | 0 | Correlation | 0.4189 | 0.2658 | -0.1531 |
| 32 | 0 | Correlation | 0.4345 | 0.3189 | -0.1156 |
| 33 | 0 | Correlation | 0.3626 | 0.3502 | -0.0124 |
| 34 | 0 | Correlation | 0.3533 | 0.3064 | -0.0469 |

## Test Statistics (nA)
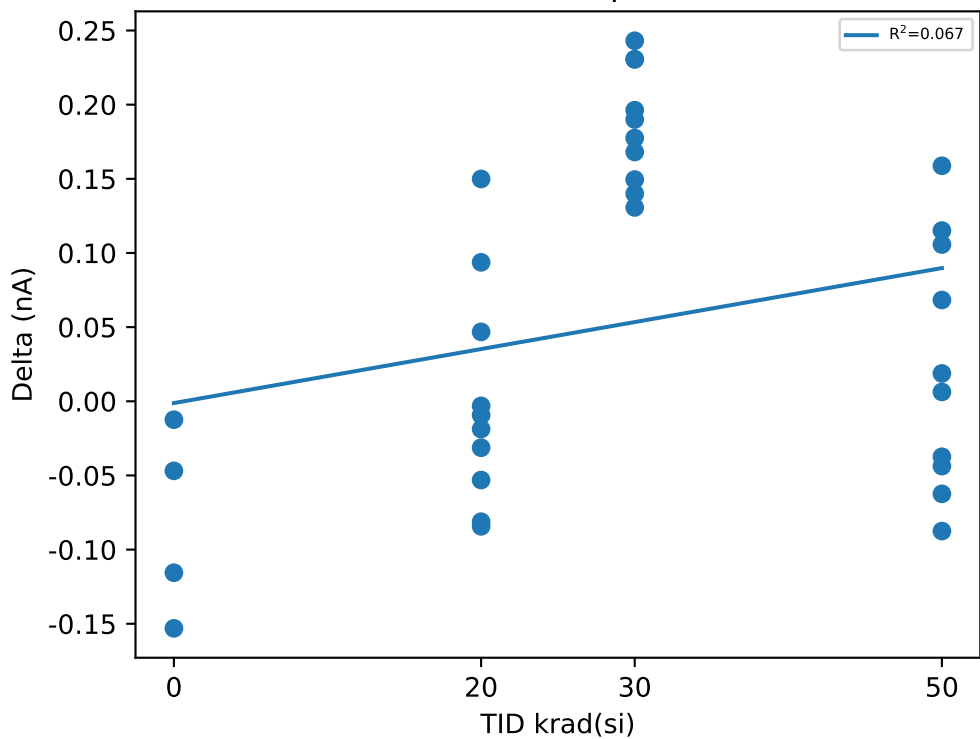
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.3533 | 0.39232 | 0.4345 | 0.040379 | 0.2658 | 0.31033 | 0.3502 | 0.034935 | -0.1531 | -0.082 | -0.0124 | 0.063928 |
| 20 | 0.2502 | 0.34515 | 0.4095 | 0.055751 | 0.2783 | 0.34609 | 0.4001 | 0.04604 | -0.0843 | 0.00094 | 0.1499 | 0.075554 |
| 30 | 0.2596 | 0.30642 | 0.3533 | 0.037002 | 0.4371 | 0.49206 | 0.5245 | 0.027253 | 0.1307 | 0.18564 | 0.2431 | 0.039803 |
| 50 | 0.3189 | 0.36263 | 0.4501 | 0.039009 | 0.2846 | 0.38683 | 0.5121 | 0.08388 | -0.0875 | 0.0242 | 0.1588 | 0.084128 |
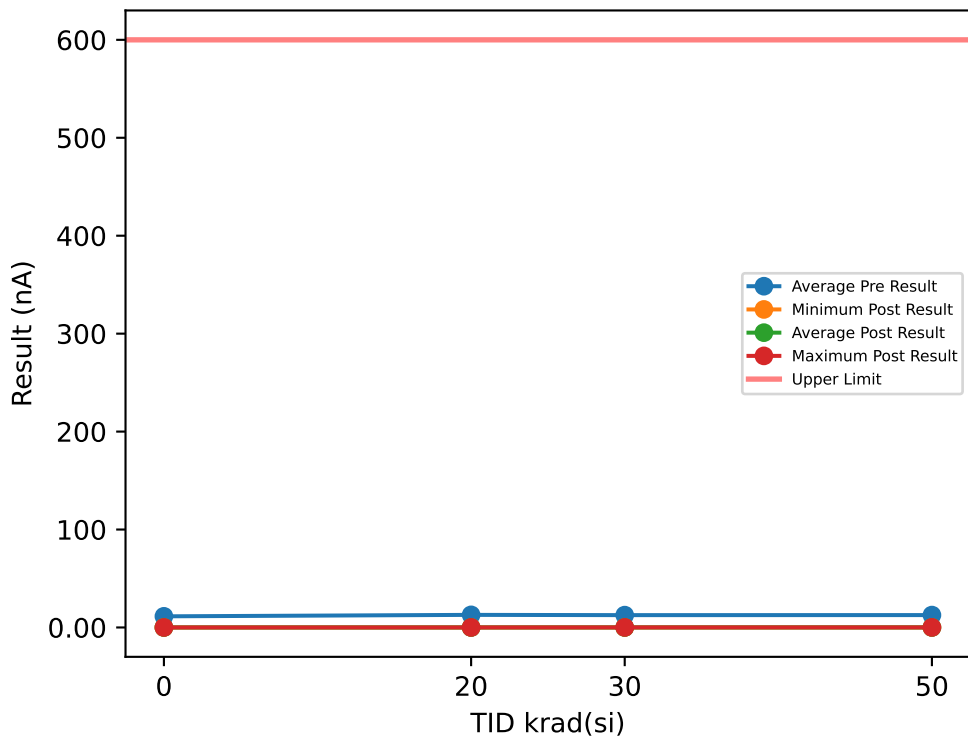
# Device Test: 15.17  SR_FAULT_ILKG(_LEAKAGE|SR_FAULT/ILKG_SR_FAULTb//14/0/0/0/@SR_FAULT_ILKG )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 600.0 (nA))

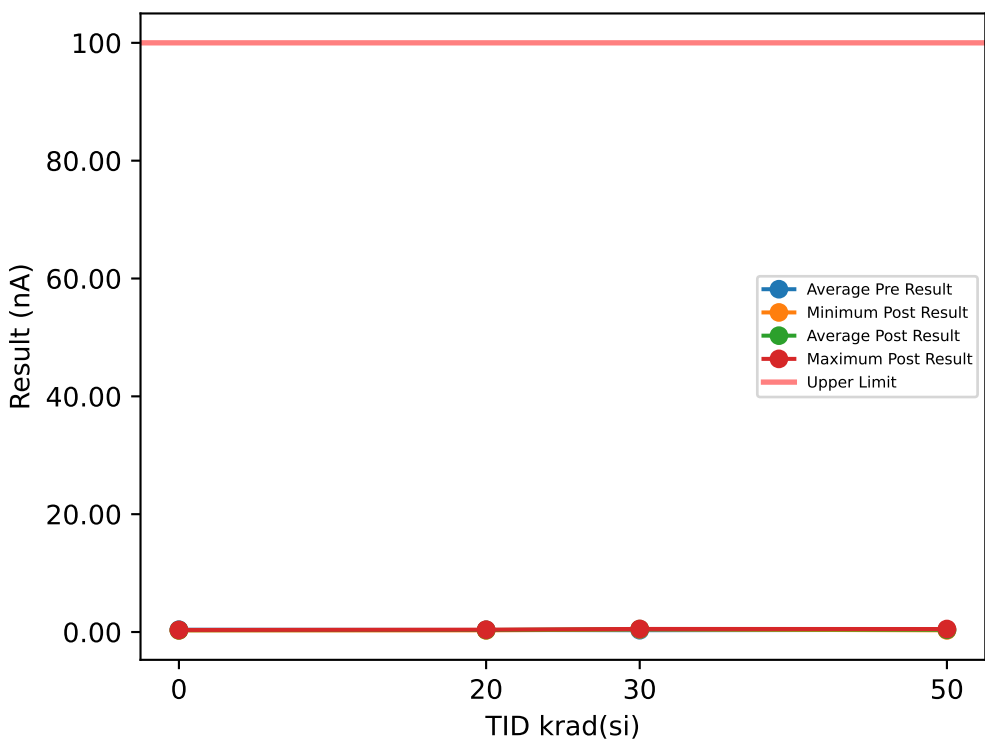| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 13.3 | 0.025 | 0.0117 |
| 2 | 20 | Bias | 14.1 | 0.0272 | 0.0131 |
| 3 | 20 | Bias | 13.7 | 0.0253 | 0.0116 |
| 4 | 20 | Bias | 13.3 | 0.0224 | 0.0091 |
| 5 | 20 | Bias | 11.8 | 0.0203 | 0.0085 |
| 6 | 20 | Unbiased | 12.9 | 0.0313 | 0.0184 |
| 7 | 20 | Unbiased | 14 | 0.0319 | 0.0179 |
| 8 | 20 | Unbiased | 11.8 | 0.027 | 0.0152 |
| 9 | 20 | Unbiased | 11.9 | 0.0263 | 0.0144 |
| 10 | 20 | Unbiased | 11.8 | 0.0268 | 0.015 |
| 11 | 30 | Bias | 18 | 0.0428 | 0.0248 |
| 12 | 30 | Bias | 12.6 | 0.065 | 0.0524 |
| 13 | 30 | Bias | 12.4 | 0.043 | 0.0306 |
| 14 | 30 | Bias | 10.9 | 0.0415 | 0.0306 |
| 15 | 30 | Bias | 12.6 | 0.0343 | 0.0217 |
| 16 | 30 | Unbiased | 11.3 | 0.0336 | 0.0223 |
| 17 | 30 | Unbiased | 11.8 | 0.0324 | 0.0206 |
| 18 | 30 | Unbiased | 11.8 | 0.0308 | 0.019 |
| 19 | 30 | Unbiased | 13.9 | 0.0319 | 0.018 |
| 20 | 30 | Unbiased | 10.6 | 0.0428 | 0.0322 |
| 21 | 50 | Bias | 10.7 | 0.0446 | 0.0339 |
| 22 | 50 | Bias | 14.9 | 0.0481 | 0.0332 |
| 23 | 50 | Bias | 12.1 | 0.0704 | 0.0583 |
| 24 | 50 | Bias | 13 | 0.0534 | 0.0404 |
| 25 | 50 | Bias | 11 | 0.0552 | 0.0442 |
| 26 | 50 | Unbiased | 11.7 | 0.0441 | 0.0324 |
| 27 | 50 | Unbiased | 11.7 | 0.0609 | 0.0492 |
| 28 | 50 | Unbiased | 14.5 | 0.0688 | 0.0543 |
| 29 | 50 | Unbiased | 13.7 | 0.0638 | 0.0501 |
| 30 | 50 | Unbiased | 13.1 | 0.0654 | 0.0523 |
| 31 | 0 | Correlation | 12.9 | 0.0129 | 0 |
| 32 | 0 | Correlation | 10.8 | 0.0109 | 0.0001 |
| 33 | 0 | Correlation | 12.2 | 0.0123 | 0.0001 |
| 34 | 0 | Correlation | 9.6 | 0.0125 | 0.0029 |
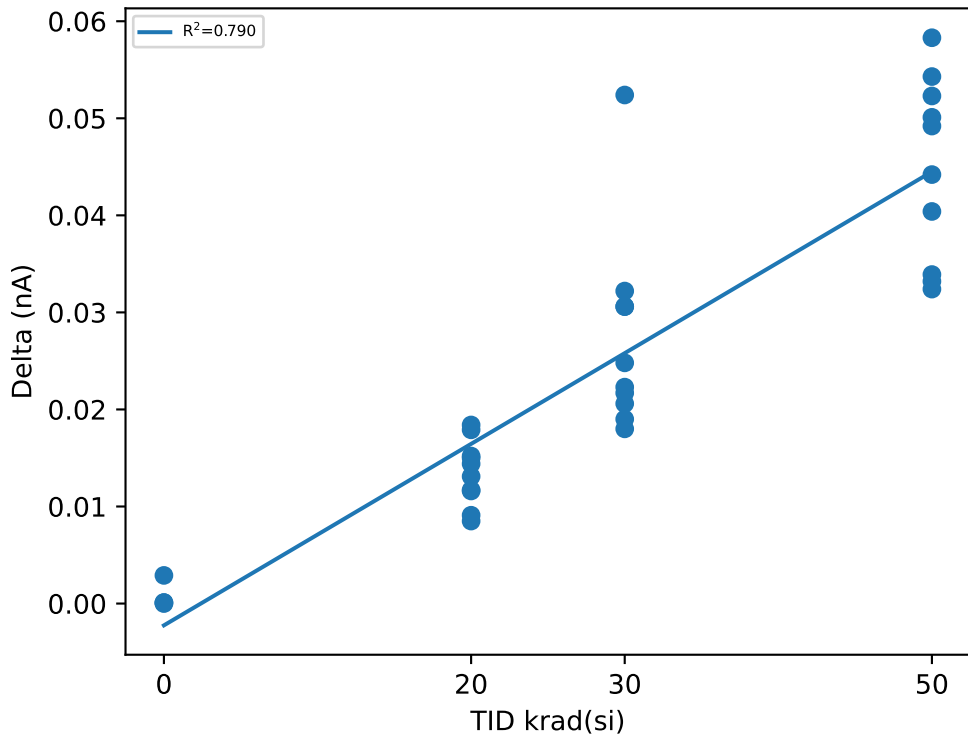
## Test Statistics (nA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9.6 | 11.375 | 12.9 | 1.4705 | 0.0109 | 0.01215 | 0.0129 | 0.00086987 | 0 | 0.000775 | 0.0029 | 0.0014175 |
| 20 | 11.8 | 12.86 | 14.1 | 0.95592 | 0.0203 | 0.02635 | 0.0319 | 0.0035243 | 0.0085 | 0.01349 | 0.0184 | 0.0033448 |
| 30 | 10.6 | 12.59 | 18 | 2.1278 | 0.0308 | 0.03981 | 0.065 | 0.010182 | 0.018 | 0.02722 | 0.0524 | 0.010212 |
| 50 | 10.7 | 12.64 | 14.9 | 1.4354 | 0.0441 | 0.05747 | 0.0704 | 0.009799 | 0.0324 | 0.04483 | 0.0583 | 0.009446 |

# Device Test: 15.18  ILKG_UP_DOWN(_LEAKAGE|UP/UP//14/0/0/0/@ILKG_UP_DOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | -0.0926 | -0.2675 | -0.1749 |
| 2 | 20 | Bias | -0.3174 | -0.2862 | 0.0312 |
| 3 | 20 | Bias | -0.1488 | -0.3049 | -0.1561 |
| 4 | 20 | Bias | -0.3986 | -0.308 | 0.0906 |
| 5 | 20 | Bias | -0.3923 | -0.2113 | 0.181 |
| 6 | 20 | Unbiased | -0.18 | -0.308 | -0.128 |
| 7 | 20 | Unbiased | -0.383 | -0.3237 | 0.0593 |
| 8 | 20 | Unbiased | -0.1332 | -0.3923 | -0.2591 |
| 9 | 20 | Unbiased | -0.3237 | -0.3486 | -0.0249 |
| 10 | 20 | Unbiased | -0.2862 | -0.4485 | -0.1623 |
| 11 | 30 | Bias | -0.3205 | -0.4015 | -0.081 |
| 12 | 30 | Bias | -0.3923 | -0.3515 | 0.0408 |
| 13 | 30 | Bias | -0.1707 | -0.3047 | -0.134 |
| 14 | 30 | Bias | -0.3205 | -0.3421 | -0.0216 |
| 15 | 30 | Bias | -0.2956 | -0.4171 | -0.1215 |
| 16 | 30 | Unbiased | -0.333 | -0.3921 | -0.0591 |
| 17 | 30 | Unbiased | -0.1925 | -0.3546 | -0.1621 |
| 18 | 30 | Unbiased | -0.2144 | -0.3296 | -0.1152 |
| 19 | 30 | Unbiased | -0.3486 | -0.4858 | -0.1372 |
| 20 | 30 | Unbiased | -0.3642 | -0.3577 | 0.0065 |
| 21 | 50 | Bias | -0.3674 | -0.4233 | -0.0559 |
| 22 | 50 | Bias | -0.2331 | -0.3421 | -0.109 |
| 23 | 50 | Bias | -0.3424 | -0.4077 | -0.0653 |
| 24 | 50 | Bias | -0.2924 | -0.3609 | -0.0685 |
| 25 | 50 | Bias | -0.2331 | -0.3923 | -0.1592 |
| 26 | 50 | Unbiased | -0.2425 | -0.3486 | -0.1061 |
| 27 | 50 | Unbiased | -0.2799 | -0.2924 | -0.0125 |
| 28 | 50 | Unbiased | -0.461 | -0.205 | 0.256 |
| 29 | 50 | Unbiased | -0.205 | -0.3018 | -0.0968 |
| 30 | 50 | Unbiased | -0.4111 | -0.2862 | 0.1249 |
| 31 | 0 | Correlation | -0.255 | -0.4579 | -0.2029 |
| 32 | 0 | Correlation | -0.2987 | -0.3861 | -0.0874 |
| 33 | 0 | Correlation | -0.2394 | -0.358 | -0.1186 |
| 34 | 0 | Correlation | -0.3674 | -0.3736 | -0.0062 |

## Test Statistics (nA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | -0.3674 | -0.29013 | -0.2394 | 0.057305 | -0.4579 | -0.3939 | -0.358 | 0.044188 | -0.2029 | -0.10377 | -0.0062 | 0.081311 |
| 20 | -0.3986 | -0.26558 | -0.0926 | 0.11664 | -0.4485 | -0.3199 | -0.2113 | 0.06566 | -0.2591 | -0.05432 | 0.181 | 0.14197 |
| 30 | -0.3923 | -0.29523 | -0.1707 | 0.07625 | -0.4858 | -0.37367 | -0.3047 | 0.052046 | -0.1621 | -0.07844 | 0.0408 | 0.068141 |
| 50 | -0.461 | -0.30679 | -0.205 | 0.085562 | -0.4233 | -0.33603 | -0.205 | 0.066215 | -0.1592 | -0.02924 | 0.256 | 0.12591 |

# Device Test: 15.19  ILKG_UP_DOWN(_LEAKAGE|DOWN/DOWNb//14/0/0/0/@ILKG_UP_DOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

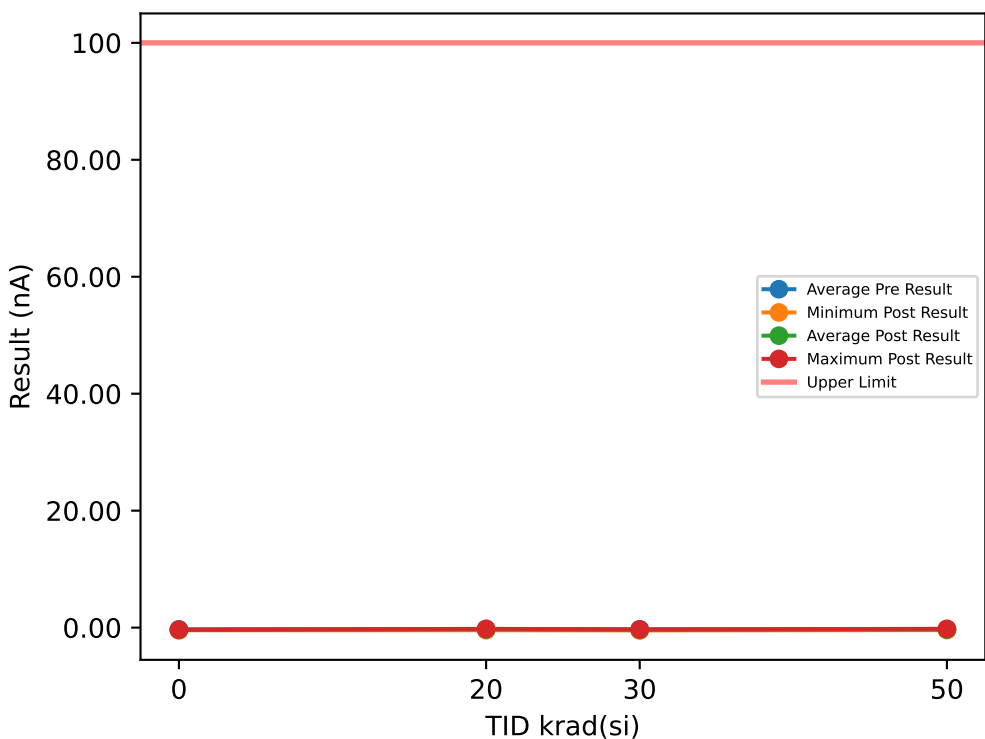| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | -0.0926 | -0.2675 | -0.1749 |
| 2 | 20 | Bias | -0.3174 | -0.2862 | 0.0312 |
| 3 | 20 | Bias | -0.1488 | -0.3049 | -0.1561 |
| 4 | 20 | Bias | -0.3986 | -0.308 | 0.0906 |
| 5 | 20 | Bias | -0.3923 | -0.2113 | 0.181 |
| 6 | 20 | Unbiased | -0.18 | -0.308 | -0.128 |
| 7 | 20 | Unbiased | -0.383 | -0.3237 | 0.0593 |
| 8 | 20 | Unbiased | -0.1332 | -0.3923 | -0.2591 |
| 9 | 20 | Unbiased | -0.3237 | -0.3486 | -0.0249 |
| 10 | 20 | Unbiased | -0.2862 | -0.4485 | -0.1623 |
| 11 | 30 | Bias | -0.3205 | -0.4015 | -0.081 |
| 12 | 30 | Bias | -0.3923 | -0.3515 | 0.0408 |
| 13 | 30 | Bias | -0.1707 | -0.3047 | -0.134 |
| 14 | 30 | Bias | -0.3205 | -0.3421 | -0.0216 |
| 15 | 30 | Bias | -0.2956 | -0.4171 | -0.1215 |
| 16 | 30 | Unbiased | -0.333 | -0.3921 | -0.0591 |
| 17 | 30 | Unbiased | -0.1925 | -0.3546 | -0.1621 |
| 18 | 30 | Unbiased | -0.2144 | -0.3296 | -0.1152 |
| 19 | 30 | Unbiased | -0.3486 | -0.4858 | -0.1372 |
| 20 | 30 | Unbiased | -0.3642 | -0.3577 | 0.0065 |
| 21 | 50 | Bias | -0.3674 | -0.4233 | -0.0559 |
| 22 | 50 | Bias | -0.2331 | -0.3421 | -0.109 |
| 23 | 50 | Bias | -0.3424 | -0.4077 | -0.0653 |
| 24 | 50 | Bias | -0.2924 | -0.3609 | -0.0685 |
| 25 | 50 | Bias | -0.2331 | -0.3923 | -0.1592 |
| 26 | 50 | Unbiased | -0.2425 | -0.3486 | -0.1061 |
| 27 | 50 | Unbiased | -0.2799 | -0.2924 | -0.0125 |
| 28 | 50 | Unbiased | -0.461 | -0.205 | 0.256 |
| 29 | 50 | Unbiased | -0.205 | -0.3018 | -0.0968 |
| 30 | 50 | Unbiased | -0.4111 | -0.2862 | 0.1249 |
| 31 | 0 | Correlation | -0.255 | -0.4579 | -0.2029 |
| 32 | 0 | Correlation | -0.2987 | -0.3861 | -0.0874 |
| 33 | 0 | Correlation | -0.2394 | -0.358 | -0.1186 |
| 34 | 0 | Correlation | -0.3674 | -0.3736 | -0.0062 |

## Test Statistics (nA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | -0.3674 | -0.29013 | -0.2394 | 0.057305 | -0.4579 | -0.3939 | -0.358 | 0.044188 | -0.2029 | -0.10377 | -0.0062 | 0.081311 |
| 20 | -0.3986 | -0.26558 | -0.0926 | 0.11664 | -0.4485 | -0.3199 | -0.2113 | 0.06566 | -0.2591 | -0.05432 | 0.181 | 0.14197 |
| 30 | -0.3923 | -0.29523 | -0.1707 | 0.07625 | -0.4858 | -0.37367 | -0.3047 | 0.052046 | -0.1621 | -0.07844 | 0.0408 | 0.068141 |
| 50 | -0.461 | -0.30679 | -0.205 | 0.085562 | -0.4233 | -0.33603 | -0.205 | 0.066215 | -0.1592 | -0.02924 | 0.256 | 0.12591 |

# Device Test: 15.2   IQ_SEQDOWN(_IQ|QUIESCENT_CURRENT/IN//14/0/0/0/@IQ_SEQDOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 4.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.5222 | 2.5275 | 0.0053 |
| 2 | 20 | Bias | 2.5041 | 2.5316 | 0.0275 |
| 3 | 20 | Bias | 2.5321 | 2.5735 | 0.0414 |
| 4 | 20 | Bias | 2.4192 | 2.4343 | 0.0151 |
| 5 | 20 | Bias | 2.5851 | 2.595 | 0.0099 |
| 6 | 20 | Unbiased | 2.5658 | 2.5585 | -0.0073 |
| 7 | 20 | Unbiased | 2.5782 | 2.6067 | 0.0285 |
| 8 | 20 | Unbiased | 2.5076 | 2.4982 | -0.0094 |
| 9 | 20 | Unbiased | 2.5671 | 2.5957 | 0.0286 |
| 10 | 20 | Unbiased | 2.5706 | 2.5711 | 0.0005 |
| 11 | 30 | Bias | 2.5352 | 2.4856 | -0.0496 |
| 12 | 30 | Bias | 2.6081 | 2.5235 | -0.0846 |
| 13 | 30 | Bias | 2.5342 | 2.6492 | 0.115 |
| 14 | 30 | Bias | 2.5335 | 2.5477 | 0.0142 |
| 15 | 30 | Bias | 2.6487 | 2.5631 | -0.0856 |
| 16 | 30 | Unbiased | 2.5137 | 2.6736 | 0.1599 |
| 17 | 30 | Unbiased | 2.673 | 2.5284 | -0.1446 |
| 18 | 30 | Unbiased | 2.5484 | 2.6907 | 0.1423 |
| 19 | 30 | Unbiased | 2.5763 | 2.6004 | 0.0241 |
| 20 | 30 | Unbiased | 2.5838 | 2.5842 | 0.0004 |
| 21 | 50 | Bias | 2.5313 | 2.5981 | 0.0668 |
| 22 | 50 | Bias | 2.455 | 2.5586 | 0.1036 |
| 23 | 50 | Bias | 2.5987 | 2.4425 | -0.1562 |
| 24 | 50 | Bias | 2.5495 | 2.6152 | 0.0657 |
| 25 | 50 | Bias | 2.5837 | 2.6359 | 0.0522 |
| 26 | 50 | Unbiased | 2.6067 | 2.6629 | 0.0562 |
| 27 | 50 | Unbiased | 2.4784 | 2.5165 | 0.0381 |
| 28 | 50 | Unbiased | 2.5525 | 2.5968 | 0.0443 |
| 29 | 50 | Unbiased | 2.5593 | 2.6375 | 0.0782 |
| 30 | 50 | Unbiased | 2.5208 | 2.535 | 0.0142 |
| 31 | 0 | Correlation | 2.5437 | 2.544 | 0.0003 |
| 32 | 0 | Correlation | 2.5055 | 2.5055 | 0 |
| 33 | 0 | Correlation | 2.5443 | 2.5443 | 0 |
| 34 | 0 | Correlation | 2.6137 | 2.4899 | -0.1238 |

## Test Statistics (mA)
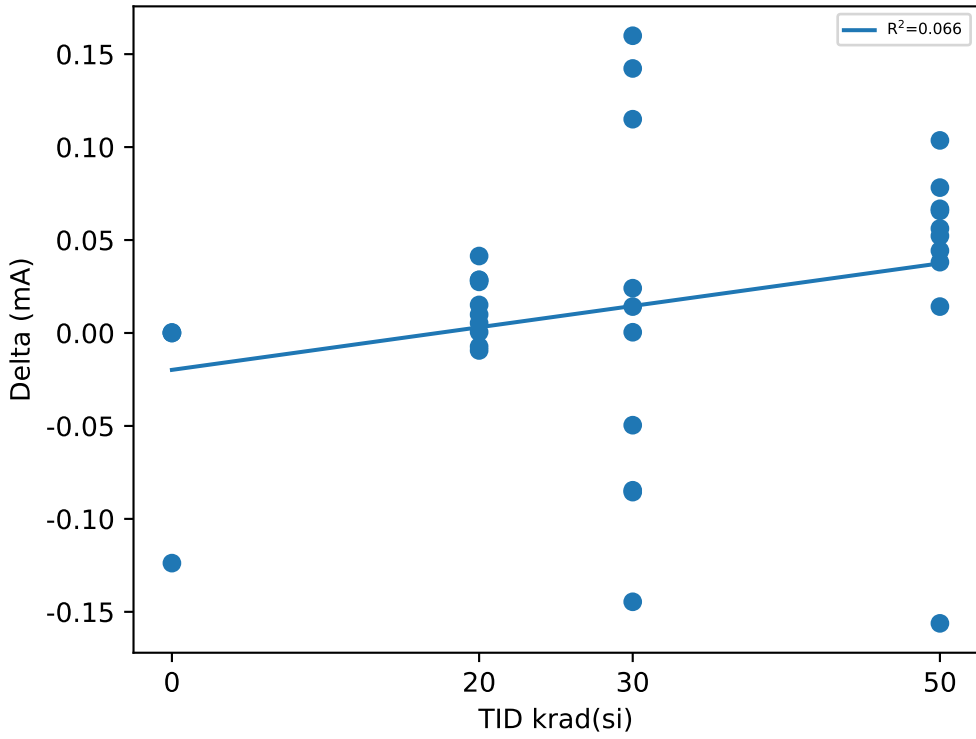
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.5055 | 2.5518 | 2.6137 | 0.045082 | 2.4899 | 2.5209 | 2.5443 | 0.027564 | -0.1238 | -0.030875 | 0.0003 | 0.06195 |
| 20 | 2.4192 | 2.5352 | 2.5851 | 0.050453 | 2.4343 | 2.5492 | 2.6067 | 0.053027 | -0.0094 | 0.01401 | 0.0414 | 0.017106 |
| 30 | 2.5137 | 2.5755 | 2.673 | 0.053379 | 2.4856 | 2.5846 | 2.6907 | 0.068409 | -0.1446 | 0.00915 | 0.1599 | 0.10373 |
| 50 | 2.455 | 2.5436 | 2.6067 | 0.049169 | 2.4425 | 2.5799 | 2.6629 | 0.067143 | -0.1562 | 0.03631 | 0.1036 | 0.071756 |

# Device Test: 15.20  ILKG_SENSE(_LEAKAGE|SENSE1/SENSE1//14/0/0/0/@ILKG_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

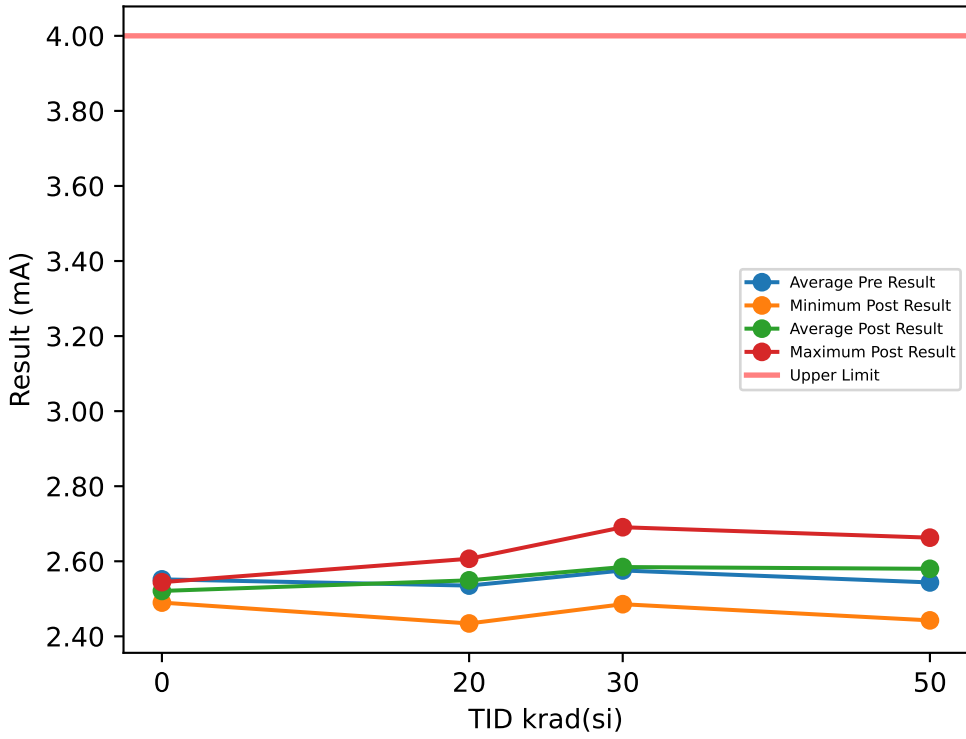| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.367 | 0.3358 | -0.0312 |
| 2 | 20 | Bias | 0.3764 | 0.3889 | 0.0125 |
| 3 | 20 | Bias | 0.4045 | 0.3171 | -0.0874 |
| 4 | 20 | Bias | 0.3951 | 0.3483 | -0.0468 |
| 5 | 20 | Bias | 0.2984 | 0.3077 | 0.0093 |
| 6 | 20 | Unbiased | 0.3951 | 0.4014 | 0.0063 |
| 7 | 20 | Unbiased | 0.3514 | 0.4014 | 0.05 |
| 8 | 20 | Unbiased | 0.3389 | 0.4232 | 0.0843 |
| 9 | 20 | Unbiased | 0.3858 | 0.3327 | -0.0531 |
| 10 | 20 | Unbiased | 0.442 | 0.3514 | -0.0906 |
| 11 | 30 | Bias | 0.314 | 0.3472 | 0.0332 |
| 12 | 30 | Bias | 0.3452 | 0.3285 | -0.0167 |
| 13 | 30 | Bias | 0.3764 | 0.2941 | -0.0823 |
| 14 | 30 | Bias | 0.3983 | 0.3878 | -0.0105 |
| 15 | 30 | Bias | 0.4014 | 0.3098 | -0.0916 |
| 16 | 30 | Unbiased | 0.2796 | 0.2879 | 0.0083 |
| 17 | 30 | Unbiased | 0.3514 | 0.3098 | -0.0416 |
| 18 | 30 | Unbiased | 0.4139 | 0.2941 | -0.1198 |
| 19 | 30 | Unbiased | 0.3421 | 0.3098 | -0.0323 |
| 20 | 30 | Unbiased | 0.3077 | 0.2504 | -0.0573 |
| 21 | 50 | Bias | 0.3015 | 0.2785 | -0.023 |
| 22 | 50 | Bias | 0.3546 | 0.2879 | -0.0667 |
| 23 | 50 | Bias | 0.3639 | 0.3316 | -0.0323 |
| 24 | 50 | Bias | 0.392 | 0.3816 | -0.0104 |
| 25 | 50 | Bias | 0.3702 | 0.3608 | -0.0094 |
| 26 | 50 | Unbiased | 0.3702 | 0.3296 | -0.0406 |
| 27 | 50 | Unbiased | 0.3546 | 0.3608 | 0.0062 |
| 28 | 50 | Unbiased | 0.3296 | 0.4232 | 0.0936 |
| 29 | 50 | Unbiased | 0.3858 | 0.3764 | -0.0094 |
| 30 | 50 | Unbiased | 0.3795 | 0.4326 | 0.0531 |
| 31 | 0 | Correlation | 0.3764 | 0.3483 | -0.0281 |
| 32 | 0 | Correlation | 0.3327 | 0.3421 | 0.0094 |
| 33 | 0 | Correlation | 0.4139 | 0.3483 | -0.0656 |
| 34 | 0 | Correlation | 0.3951 | 0.2952 | -0.0999 |

## Test Statistics (nA)
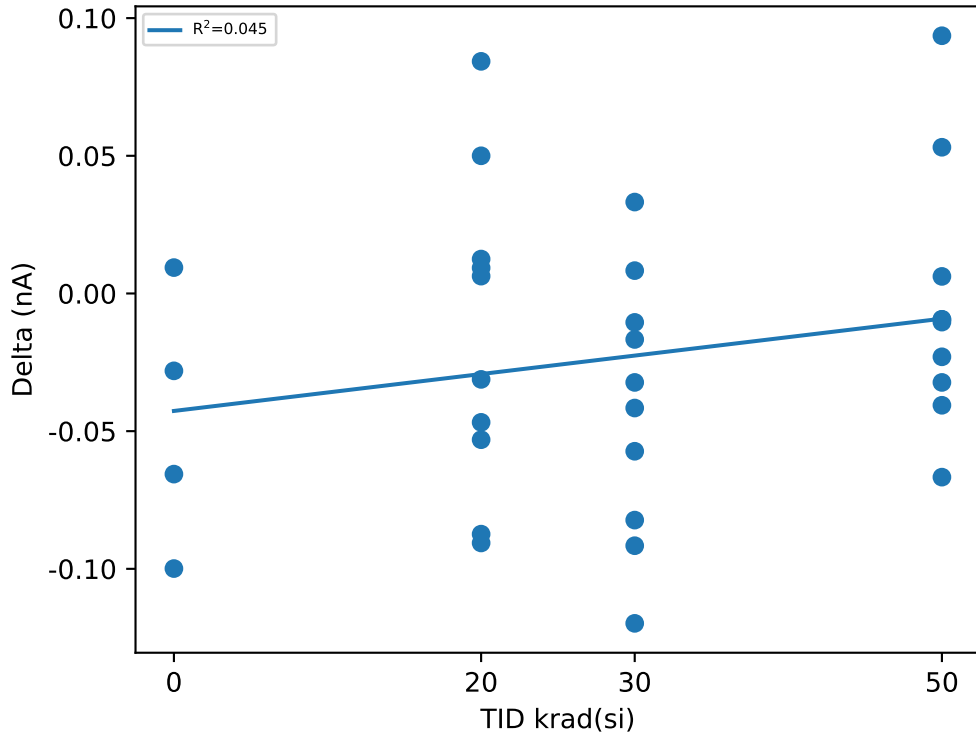
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.3327 | 0.37953 | 0.4139 | 0.034769 | 0.2952 | 0.33348 | 0.3483 | 0.025684 | -0.0999 | -0.04605 | 0.0094 | 0.047184 |
| 20 | 0.2984 | 0.37546 | 0.442 | 0.039547 | 0.3077 | 0.36079 | 0.4232 | 0.039956 | -0.0906 | -0.01467 | 0.0843 | 0.057317 |
| 30 | 0.2796 | 0.353 | 0.4139 | 0.044465 | 0.2504 | 0.31194 | 0.3878 | 0.03695 | -0.1198 | -0.04106 | 0.0332 | 0.047462 |
| 50 | 0.3015 | 0.36019 | 0.392 | 0.02728 | 0.2785 | 0.3563 | 0.4326 | 0.05103 | -0.0667 | -0.00389 | 0.0936 | 0.046454 |

# Device Test: 15.21  ILKG_SENSE(_LEAKAGE|SENSE2/SENSE2//14/0/0/0/@ILKG_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

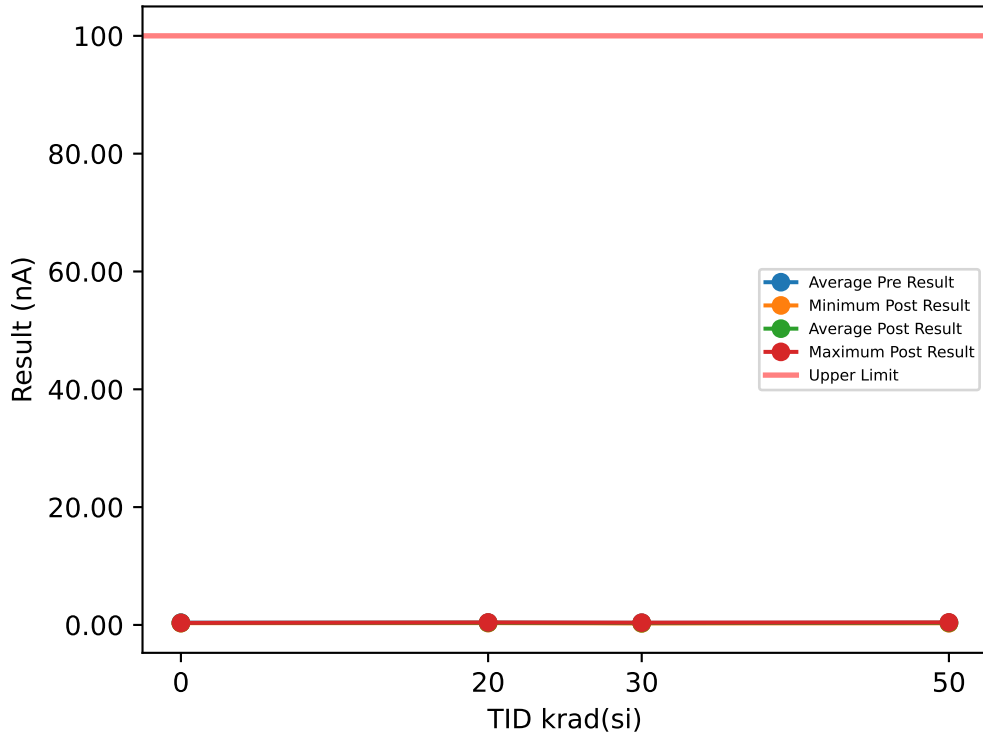| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 0.3309 | 0.3933 | 0.0624 |
| 2 | 20 | Bias | 0.4183 | 0.4152 | -0.0031 |
| 3 | 20 | Bias | 0.2186 | 0.3184 | 0.0998 |
| 4 | 20 | Bias | 0.3902 | 0.3621 | -0.0281 |
| 5 | 20 | Bias | 0.2841 | 0.3621 | 0.078 |
| 6 | 20 | Unbiased | 0.3528 | 0.4246 | 0.0718 |
| 7 | 20 | Unbiased | 0.4058 | 0.4839 | 0.0781 |
| 8 | 20 | Unbiased | 0.2591 | 0.4651 | 0.206 |
| 9 | 20 | Unbiased | 0.3871 | 0.3122 | -0.0749 |
| 10 | 20 | Unbiased | 0.462 | 0.4776 | 0.0156 |
| 11 | 30 | Bias | 0.4526 | 0.2066 | -0.246 |
| 12 | 30 | Bias | 0.4121 | 0.2472 | -0.1649 |
| 13 | 30 | Bias | 0.3746 | 0.1753 | -0.1993 |
| 14 | 30 | Bias | 0.4214 | 0.2784 | -0.143 |
| 15 | 30 | Bias | 0.4839 | 0.141 | -0.3429 |
| 16 | 30 | Unbiased | 0.5088 | 0.1129 | -0.3959 |
| 17 | 30 | Unbiased | 0.3497 | 0.294 | -0.0557 |
| 18 | 30 | Unbiased | 0.3372 | 0.2565 | -0.0807 |
| 19 | 30 | Unbiased | 0.4464 | 0.2128 | -0.2336 |
| 20 | 30 | Unbiased | 0.437 | 0.1878 | -0.2492 |
| 21 | 50 | Bias | 0.462 | 0.1035 | -0.3585 |
| 22 | 50 | Bias | 0.334 | 0.2409 | -0.0931 |
| 23 | 50 | Bias | 0.3746 | 0.1535 | -0.2211 |
| 24 | 50 | Bias | 0.4807 | 0.1566 | -0.3241 |
| 25 | 50 | Bias | 0.3247 | 0.5182 | 0.1935 |
| 26 | 50 | Unbiased | 0.3278 | 0.4183 | 0.0905 |
| 27 | 50 | Unbiased | 0.409 | 0.3091 | -0.0999 |
| 28 | 50 | Unbiased | 0.3184 | 0.3621 | 0.0437 |
| 29 | 50 | Unbiased | 0.3684 | 0.3715 | 0.0031 |
| 30 | 50 | Unbiased | 0.4932 | 0.3871 | -0.1061 |
| 31 | 0 | Correlation | 0.4152 | 0.4839 | 0.0687 |
| 32 | 0 | Correlation | 0.3309 | 0.4027 | 0.0718 |
| 33 | 0 | Correlation | 0.3871 | 0.487 | 0.0999 |
| 34 | 0 | Correlation | 0.3933 | 0.4651 | 0.0718 |

## Test Statistics (nA)
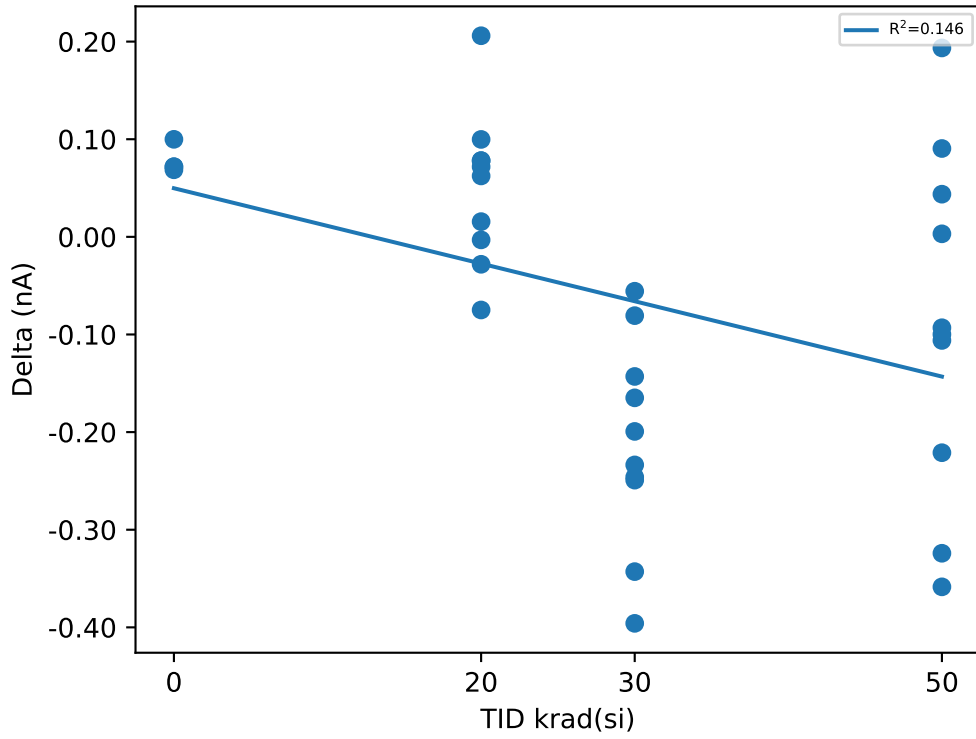
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.3309 | 0.38162 | 0.4152 | 0.035901 | 0.4027 | 0.45968 | 0.487 | 0.039196 | 0.0687 | 0.07805 | 0.0999 | 0.01464 |
| 20 | 0.2186 | 0.35089 | 0.462 | 0.077137 | 0.3122 | 0.40145 | 0.4839 | 0.062716 | -0.0749 | 0.05056 | 0.206 | 0.077973 |
| 30 | 0.3372 | 0.42237 | 0.5088 | 0.055662 | 0.1129 | 0.21125 | 0.294 | 0.058851 | -0.3959 | -0.21112 | -0.0557 | 0.10686 |
| 50 | 0.3184 | 0.38928 | 0.4932 | 0.067918 | 0.1035 | 0.30208 | 0.5182 | 0.1343 | -0.3585 | -0.0872 | 0.1935 | 0.1776 |

# Device Test: 15.22  ILKG_SENSE(_LEAKAGE|SENSE3/SENSE3//14/0/0/0/@ILKG_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

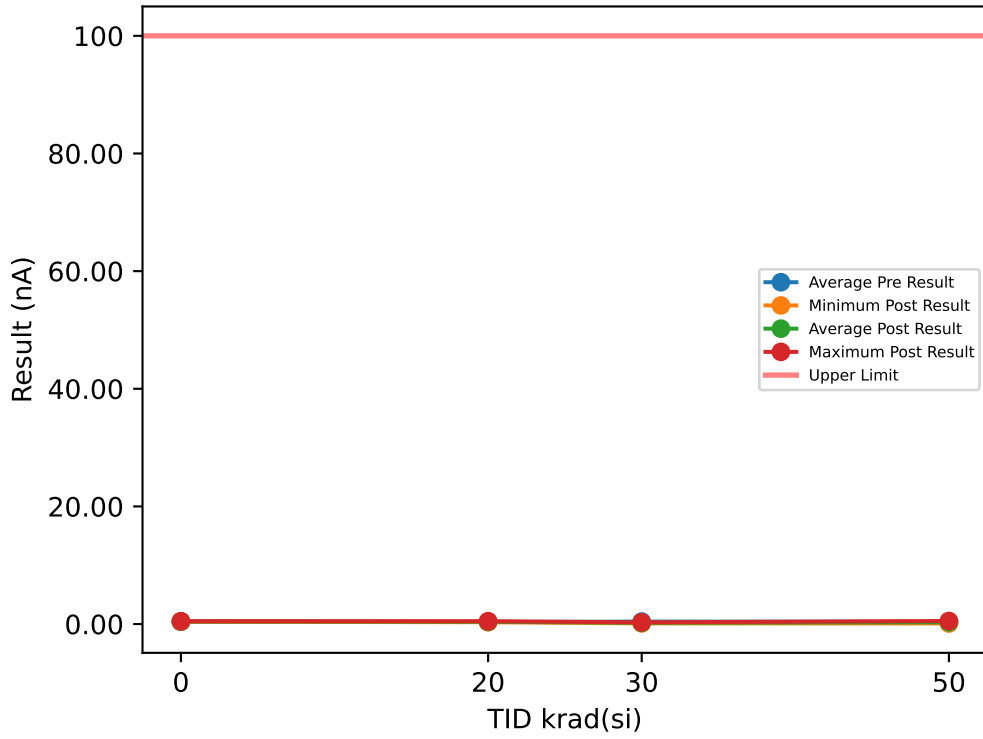| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.4338 | 0.0435 | -0.3903 |
| 2 | 20 | Bias | 0.6898 | 0.7179 | 0.0281 |
| 3 | 20 | Bias | 0.5212 | 0.4213 | -0.0999 |
| 4 | 20 | Bias | 0.4744 | 0.4806 | 0.0062 |
| 5 | 20 | Bias | 0.5993 | 0.8303 | 0.231 |
| 6 | 20 | Unbiased | 0.5961 | 0.3807 | -0.2154 |
| 7 | 20 | Unbiased | 0.4525 | 0.0997 | -0.3528 |
| 8 | 20 | Unbiased | 0.3932 | 0.3557 | -0.0375 |
| 9 | 20 | Unbiased | 0.7647 | 0.1528 | -0.6119 |
| 10 | 20 | Unbiased | 0.3713 | 0.4307 | 0.0594 |
| 11 | 30 | Bias | 0.3901 | 0.3398 | -0.0503 |
| 12 | 30 | Bias | 0.081 | 0.293 | 0.212 |
| 13 | 30 | Bias | 0.8241 | 0.4272 | -0.3969 |
| 14 | 30 | Bias | 0.849 | 0.3898 | -0.4592 |
| 15 | 30 | Bias | 0.4151 | 0.4428 | 0.0277 |
| 16 | 30 | Unbiased | 0.7054 | 0.3804 | -0.325 |
| 17 | 30 | Unbiased | 0.5649 | 0.3929 | -0.172 |
| 18 | 30 | Unbiased | 0.8241 | 0.4647 | -0.3594 |
| 19 | 30 | Unbiased | 0.849 | 0.3742 | -0.4748 |
| 20 | 30 | Unbiased | 0.287 | 0.3991 | 0.1121 |
| 21 | 50 | Bias | 0.3276 | 0.3898 | 0.0622 |
| 22 | 50 | Bias | 0.6492 | 0.5084 | -0.1408 |
| 23 | 50 | Bias | 0.056 | 0.4772 | 0.4212 |
| 24 | 50 | Bias | -0.0314 | 0.4959 | 0.5273 |
| 25 | 50 | Bias | 0.8366 | 0.3838 | -0.4528 |
| 26 | 50 | Unbiased | 0.8334 | 0.7679 | -0.0655 |
| 27 | 50 | Unbiased | 0.1091 | 0.8959 | 0.7868 |
| 28 | 50 | Unbiased | 0.7335 | 0.7647 | 0.0312 |
| 29 | 50 | Unbiased | 0.7991 | 0.4525 | -0.3466 |
| 30 | 50 | Unbiased | 0.4619 | 0.0903 | -0.3716 |
| 31 | 0 | Correlation | 0.031 | 0.3027 | 0.2717 |
| 32 | 0 | Correlation | 0.1372 | 0.8428 | 0.7056 |
| 33 | 0 | Correlation | 0.056 | 0.3401 | 0.2841 |
| 34 | 0 | Correlation | 0.4525 | 0.2902 | -0.1623 |

## Test Statistics (nA)
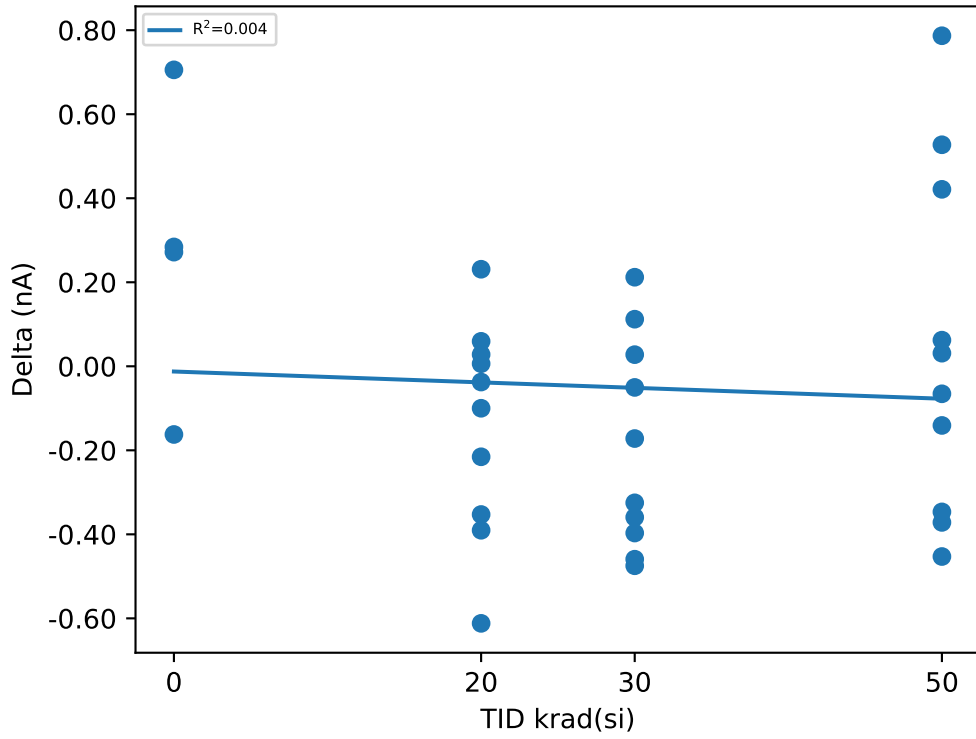
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.031 | 0.16917 | 0.4525 | 0.19425 | 0.2902 | 0.44395 | 0.8428 | 0.26674 | -0.1623 | 0.27477 | 0.7056 | 0.35437 |
| 20 | 0.3713 | 0.52963 | 0.7647 | 0.13001 | 0.0435 | 0.39132 | 0.8303 | 0.25256 | -0.6119 | -0.13831 | 0.231 | 0.25286 |
| 30 | 0.081 | 0.57897 | 0.849 | 0.27446 | 0.293 | 0.39039 | 0.4647 | 0.049567 | -0.4748 | -0.18858 | 0.212 | 0.2502 |
| 50 | -0.0314 | 0.4775 | 0.8366 | 0.34142 | 0.0903 | 0.52264 | 0.8959 | 0.23329 | -0.4528 | 0.04514 | 0.7868 | 0.41451 |

# Device Test: 15.23  ILKG_SENSE(_LEAKAGE|SENSE4/SENSE4//14/0/0/0/@ILKG_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 100.0 (nA))

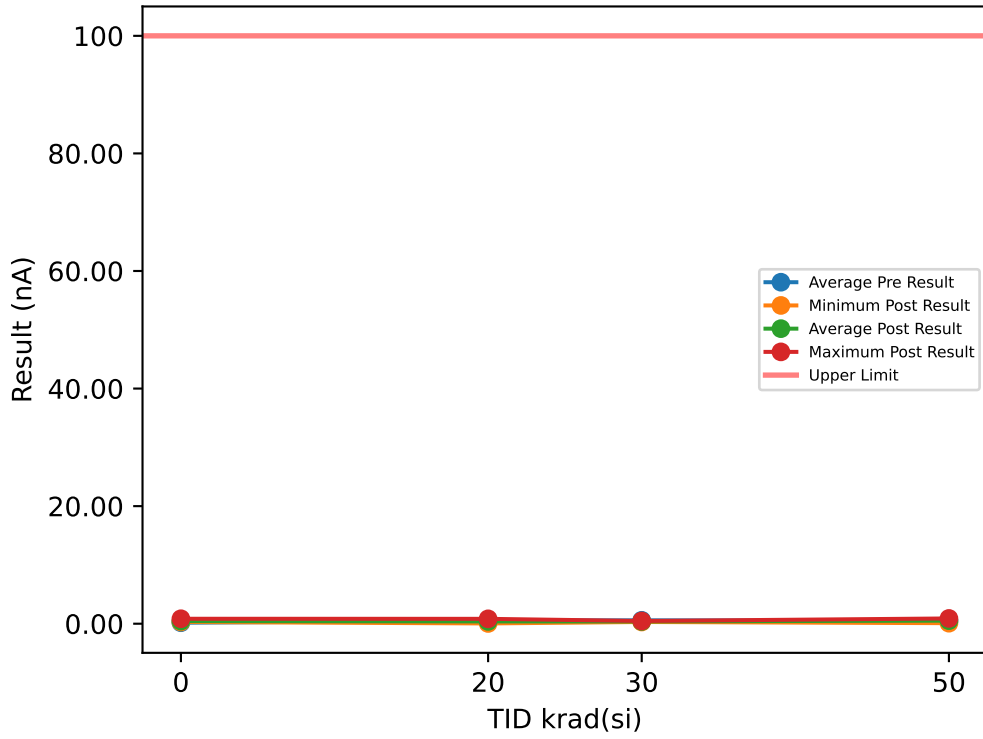| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.347 | 0.3533 | 0.0063 |
| 2 | 20 | Bias | 0.3096 | 0.3439 | 0.0343 |
| 3 | 20 | Bias | 0.2627 | 0.3907 | 0.128 |
| 4 | 20 | Bias | 0.3689 | 0.3814 | 0.0125 |
| 5 | 20 | Bias | 0.3439 | 0.3533 | 0.0094 |
| 6 | 20 | Unbiased | 0.3221 | 0.3939 | 0.0718 |
| 7 | 20 | Unbiased | 0.3314 | 0.347 | 0.0156 |
| 8 | 20 | Unbiased | 0.4032 | 0.3377 | -0.0655 |
| 9 | 20 | Unbiased | 0.3096 | 0.3189 | 0.0093 |
| 10 | 20 | Unbiased | 0.3689 | 0.3377 | -0.0312 |
| 11 | 30 | Bias | 0.3345 | 0.434 | 0.0995 |
| 12 | 30 | Bias | 0.3377 | 0.537 | 0.1993 |
| 13 | 30 | Bias | 0.3127 | 0.5183 | 0.2056 |
| 14 | 30 | Bias | 0.2377 | 0.4996 | 0.2619 |
| 15 | 30 | Bias | 0.2534 | 0.4715 | 0.2181 |
| 16 | 30 | Unbiased | 0.4001 | 0.3684 | -0.0317 |
| 17 | 30 | Unbiased | 0.3876 | 0.4746 | 0.087 |
| 18 | 30 | Unbiased | 0.3064 | 0.434 | 0.1276 |
| 19 | 30 | Unbiased | 0.3064 | 0.5121 | 0.2057 |
| 20 | 30 | Unbiased | 0.3252 | 0.4215 | 0.0963 |
| 21 | 50 | Bias | 0.3158 | 0.5152 | 0.1994 |
| 22 | 50 | Bias | 0.2939 | 0.5027 | 0.2088 |
| 23 | 50 | Bias | 0.3845 | 0.4215 | 0.037 |
| 24 | 50 | Bias | 0.3252 | 0.4527 | 0.1275 |
| 25 | 50 | Bias | 0.2971 | 0.2908 | -0.0063 |
| 26 | 50 | Unbiased | 0.2877 | 0.3064 | 0.0187 |
| 27 | 50 | Unbiased | 0.3564 | 0.2846 | -0.0718 |
| 28 | 50 | Unbiased | 0.4064 | 0.2939 | -0.1125 |
| 29 | 50 | Unbiased | 0.4032 | 0.3221 | -0.0811 |
| 30 | 50 | Unbiased | 0.3439 | 0.3845 | 0.0406 |
| 31 | 0 | Correlation | 0.3533 | 0.3408 | -0.0125 |
| 32 | 0 | Correlation | 0.4064 | 0.3002 | -0.1062 |
| 33 | 0 | Correlation | 0.3751 | 0.3814 | 0.0063 |
| 34 | 0 | Correlation | 0.3002 | 0.3658 | 0.0656 |

## Test Statistics (nA)
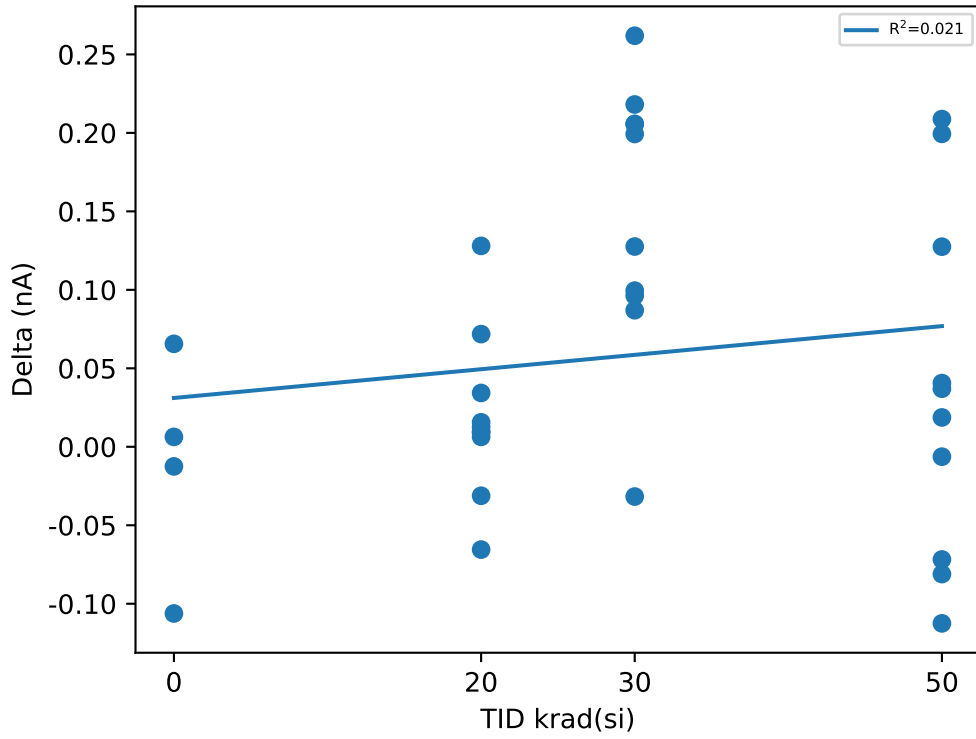
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.3002 | 0.35875 | 0.4064 | 0.044705 | 0.3002 | 0.34705 | 0.3814 | 0.035428 | -0.1062 | -0.0117 | 0.0656 | 0.071251 |
| 20 | 0.2627 | 0.33673 | 0.4032 | 0.039214 | 0.3189 | 0.35578 | 0.3939 | 0.024885 | -0.0655 | 0.01905 | 0.128 | 0.052667 |
| 30 | 0.2377 | 0.32017 | 0.4001 | 0.050737 | 0.3684 | 0.4671 | 0.537 | 0.052363 | -0.0317 | 0.14693 | 0.2619 | 0.087311 |
| 50 | 0.2877 | 0.34141 | 0.4064 | 0.044911 | 0.2846 | 0.37744 | 0.5152 | 0.090392 | -0.1125 | 0.03603 | 0.2088 | 0.11276 |

# Device Test: 15.24  IHYS(_CURRENT|SENSE1/SENSE1//3/0/0/0/@IHYS )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (uA))

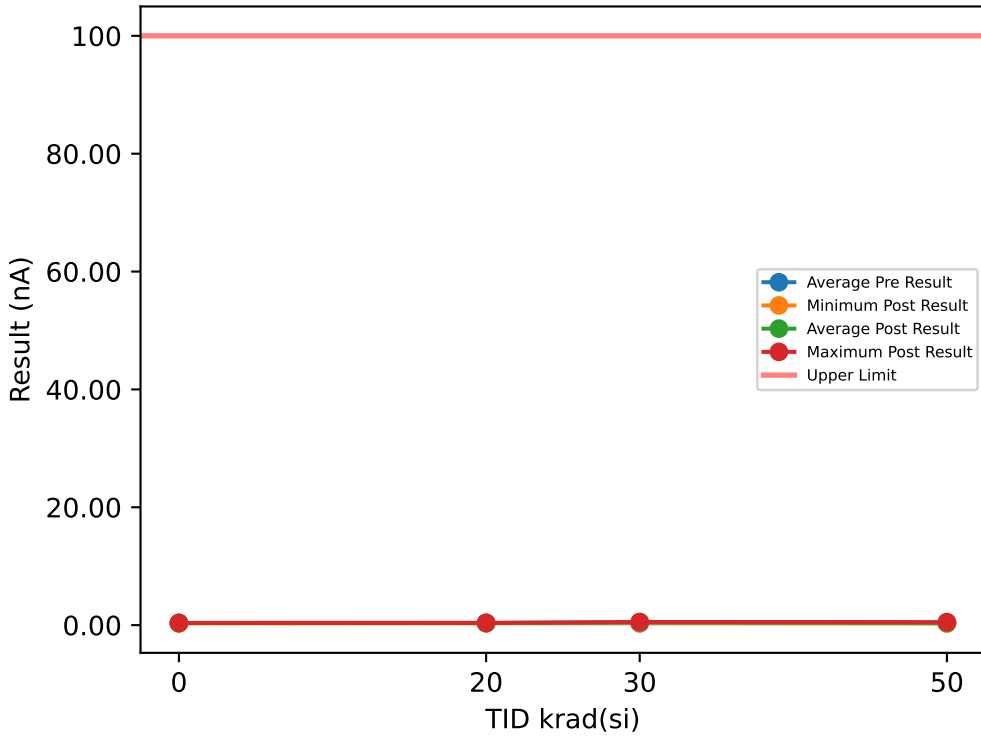| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.07 | 24.073 | 0.0036 |
| 2 | 20 | Bias | 24.05 | 24.044 | -0.006 |
| 3 | 20 | Bias | 23.971 | 23.98 | 0.0087 |
| 4 | 20 | Bias | 24.07 | 24.068 | -0.0021 |
| 5 | 20 | Bias | 24.014 | 24 | -0.0141 |
| 6 | 20 | Unbiased | 24.07 | 24.081 | 0.0104 |
| 7 | 20 | Unbiased | 24.009 | 24.019 | 0.0096 |
| 8 | 20 | Unbiased | 24.054 | 24.048 | -0.0062 |
| 9 | 20 | Unbiased | 24.16 | 24.151 | -0.0096 |
| 10 | 20 | Unbiased | 24.138 | 24.128 | -0.0099 |
| 11 | 30 | Bias | 24.147 | 23.908 | -0.2386 |
| 12 | 30 | Bias | 24.073 | 24.13 | 0.0566 |
| 13 | 30 | Bias | 24.039 | 24.073 | 0.0339 |
| 14 | 30 | Bias | 24.058 | 24.056 | -0.0015 |
| 15 | 30 | Bias | 24.123 | 24.065 | -0.0578 |
| 16 | 30 | Unbiased | 24.075 | 24.132 | 0.0567 |
| 17 | 30 | Unbiased | 24.06 | 24.07 | 0.01 |
| 18 | 30 | Unbiased | 24.078 | 24.059 | -0.0181 |
| 19 | 30 | Unbiased | 24.079 | 24.072 | -0.0072 |
| 20 | 30 | Unbiased | 24.067 | 24.063 | -0.0047 |
| 21 | 50 | Bias | 23.966 | 24.061 | 0.0944 |
| 22 | 50 | Bias | 24.081 | 23.941 | -0.1403 |
| 23 | 50 | Bias | 24.048 | 24.104 | 0.0567 |
| 24 | 50 | Bias | 24.03 | 24.037 | 0.0067 |
| 25 | 50 | Bias | 24.045 | 24.04 | -0.0052 |
| 26 | 50 | Unbiased | 24.028 | 24.013 | -0.0148 |
| 27 | 50 | Unbiased | 24.001 | 23.992 | -0.0089 |
| 28 | 50 | Unbiased | 23.99 | 24.003 | 0.0133 |
| 29 | 50 | Unbiased | 23.937 | 23.942 | 0.0043 |
| 30 | 50 | Unbiased | 24.086 | 24.09 | 0.0043 |
| 31 | 0 | Correlation | 24.11 | 24.109 | -0.0015 |
| 32 | 0 | Correlation | 24.115 | 24.113 | -0.0017 |
| 33 | 0 | Correlation | 24.036 | 24.033 | -0.0032 |
| 34 | 0 | Correlation | 24.1 | 23.913 | -0.1869 |

## Test Statistics (uA)
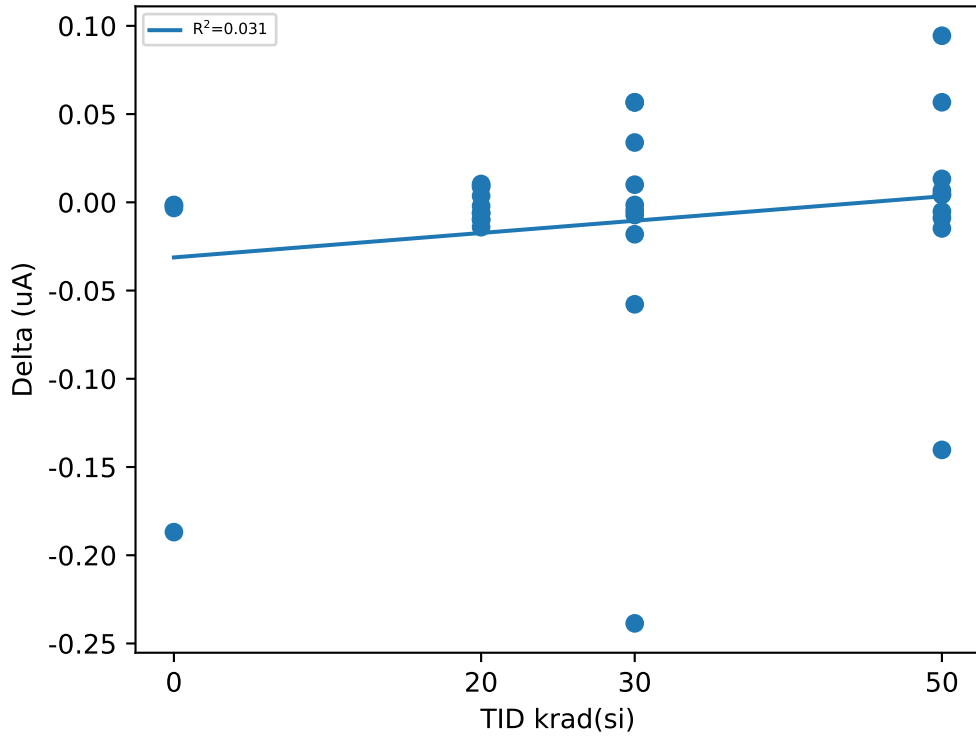
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 24.036 | 24.09 | 24.115 | 0.036859 | 23.913 | 24.042 | 24.113 | 0.093328 | -0.1869 | -0.048325 | -0.0015 | 0.092386 |
| 20 | 23.971 | 24.061 | 24.16 | 0.057003 | 23.98 | 24.059 | 24.151 | 0.053476 | -0.0141 | -0.00156 | 0.0104 | 0.0090214 |
| 30 | 24.039 | 24.08 | 24.147 | 0.031799 | 23.908 | 24.063 | 24.132 | 0.061002 | -0.2386 | -0.01707 | 0.0567 | 0.085263 |
| 50 | 23.937 | 24.021 | 24.086 | 0.047805 | 23.941 | 24.022 | 24.104 | 0.055672 | -0.1403 | 0.00105 | 0.0944 | 0.059985 |

# Device Test: 15.25  IHYS(_CURRENT|SENSE2/SENSE2//3/0/0/0/@IHYS )

## TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

Y-axis: Result (uA); X-axis: TID krad(si)

## TID vs Post - Pre Exposure Delta

$R^2=0.048$

Y-axis: Delta (uA); X-axis: TID krad(si)

## Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (uA))

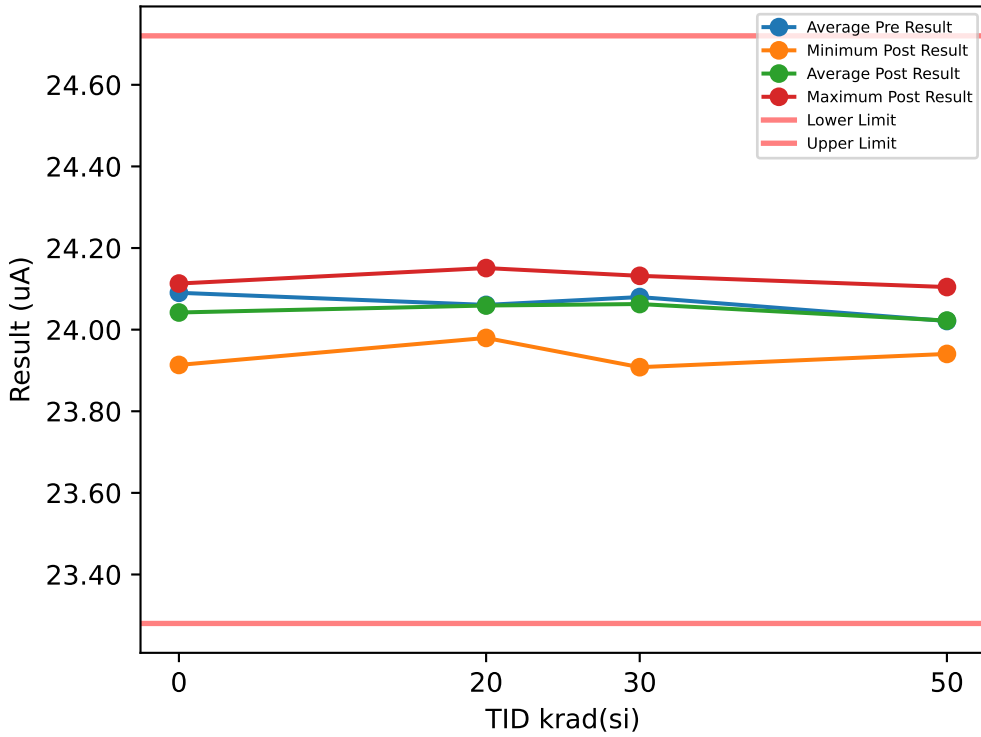| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.09 | 24.093 | 0.0029 |
| 2 | 20 | Bias | 24.062 | 24.056 | -0.0066 |
| 3 | 20 | Bias | 23.997 | 24.009 | 0.012 |
| 4 | 20 | Bias | 24.052 | 24.05 | -0.0016 |
| 5 | 20 | Bias | 23.983 | 23.971 | -0.0123 |
| 6 | 20 | Unbiased | 24.049 | 24.058 | 0.0091 |
| 7 | 20 | Unbiased | 24.119 | 24.128 | 0.009 |
| 8 | 20 | Unbiased | 24.069 | 24.058 | -0.0104 |
| 9 | 20 | Unbiased | 24.153 | 24.142 | -0.0109 |
| 10 | 20 | Unbiased | 24.174 | 24.164 | -0.0099 |
| 11 | 30 | Bias | 24.109 | 23.956 | -0.1529 |
| 12 | 30 | Bias | 24.094 | 24.09 | -0.0043 |
| 13 | 30 | Bias | 24.061 | 24.091 | 0.0304 |
| 14 | 30 | Bias | 24.074 | 24.071 | -0.0031 |
| 15 | 30 | Bias | 24.148 | 24.078 | -0.0695 |
| 16 | 30 | Unbiased | 24.129 | 24.158 | 0.0291 |
| 17 | 30 | Unbiased | 24.075 | 24.126 | 0.0508 |
| 18 | 30 | Unbiased | 23.971 | 24.079 | 0.1074 |
| 19 | 30 | Unbiased | 24.027 | 23.973 | -0.0545 |
| 20 | 30 | Unbiased | 24.106 | 24.011 | -0.0947 |
| 21 | 50 | Bias | 23.964 | 24.1 | 0.1363 |
| 22 | 50 | Bias | 24.111 | 23.934 | -0.1773 |
| 23 | 50 | Bias | 24.107 | 24.133 | 0.0253 |
| 24 | 50 | Bias | 24.015 | 24.092 | 0.0769 |
| 25 | 50 | Bias | 24.12 | 24.11 | -0.0098 |
| 26 | 50 | Unbiased | 24.076 | 24.061 | -0.0158 |
| 27 | 50 | Unbiased | 24.021 | 24.014 | -0.0068 |
| 28 | 50 | Unbiased | 23.981 | 23.989 | 0.0082 |
| 29 | 50 | Unbiased | 24 | 24.002 | 0.0022 |
| 30 | 50 | Unbiased | 24.105 | 24.106 | 0.0012 |
| 31 | 0 | Correlation | 24.171 | 24.169 | -0.0022 |
| 32 | 0 | Correlation | 24.136 | 24.132 | -0.0039 |
| 33 | 0 | Correlation | 24.097 | 24.094 | -0.0027 |
| 34 | 0 | Correlation | 24.206 | 23.961 | -0.2449 |

## Test Statistics (uA)
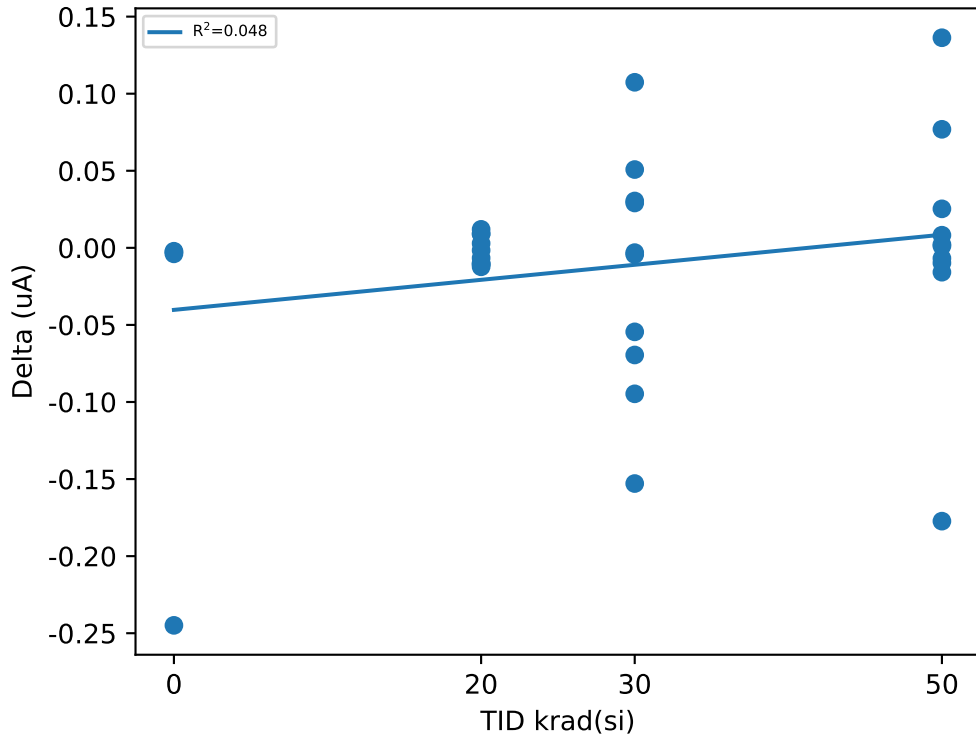
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 24.097 | 24.153 | 24.206 | 0.046992 | 23.961 | 24.089 | 24.169 | 0.090458 | -0.2449 | -0.063425 | -0.0022 | 0.12099 |
| 20 | 23.983 | 24.075 | 24.174 | 0.061438 | 23.971 | 24.073 | 24.164 | 0.059862 | -0.0123 | -0.00187 | 0.012 | 0.0094495 |
| 30 | 23.971 | 24.079 | 24.148 | 0.051304 | 23.956 | 24.063 | 24.158 | 0.064306 | -0.1529 | -0.01613 | 0.1074 | 0.077071 |
| 50 | 23.964 | 24.05 | 24.12 | 0.060148 | 23.934 | 24.054 | 24.133 | 0.065473 | -0.1773 | 0.00404 | 0.1363 | 0.079491 |

# Device Test: 15.26  IHYS(_CURRENT|SENSE3/SENSE3//3/0/0/0/@IHYS )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (uA))

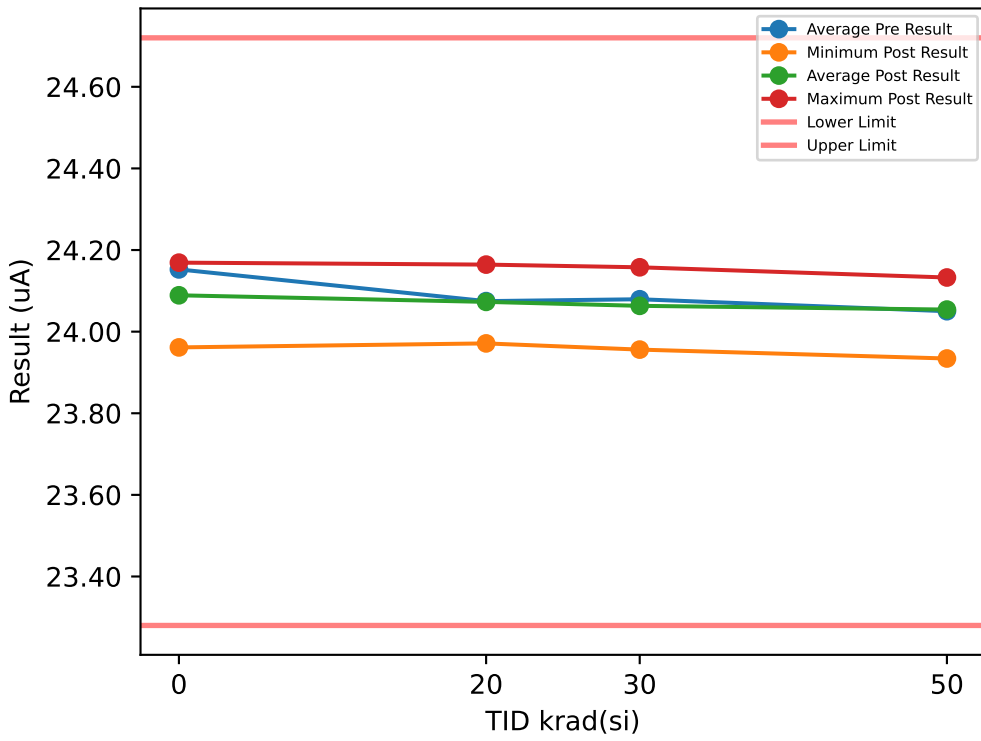| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 24.096 | 24.092 | -0.0045 |
| 2 | 20 | Bias | 24.019 | 24.009 | -0.0106 |
| 3 | 20 | Bias | 24.043 | 24.057 | 0.0135 |
| 4 | 20 | Bias | 24.059 | 24.054 | -0.005 |
| 5 | 20 | Bias | 24.038 | 24.024 | -0.0138 |
| 6 | 20 | Unbiased | 24.038 | 24.05 | 0.0123 |
| 7 | 20 | Unbiased | 24.092 | 24.1 | 0.0082 |
| 8 | 20 | Unbiased | 24.075 | 24.067 | -0.0083 |
| 9 | 20 | Unbiased | 24.184 | 24.169 | -0.0152 |
| 10 | 20 | Unbiased | 24.166 | 24.154 | -0.0124 |
| 11 | 30 | Bias | 24.083 | 24.03 | -0.053 |
| 12 | 30 | Bias | 24.064 | 24.064 | -0.0006 |
| 13 | 30 | Bias | 24.113 | 24.061 | -0.0513 |
| 14 | 30 | Bias | 24.05 | 24.126 | 0.0764 |
| 15 | 30 | Bias | 24.159 | 24.055 | -0.1039 |
| 16 | 30 | Unbiased | 24.067 | 24.167 | 0.1002 |
| 17 | 30 | Unbiased | 24.076 | 24.063 | -0.0129 |
| 18 | 30 | Unbiased | 24.057 | 24.078 | 0.0211 |
| 19 | 30 | Unbiased | 24.055 | 24.054 | -0.0014 |
| 20 | 30 | Unbiased | 24.088 | 24.04 | -0.0485 |
| 21 | 50 | Bias | 23.965 | 24.078 | 0.1133 |
| 22 | 50 | Bias | 24.04 | 23.942 | -0.0973 |
| 23 | 50 | Bias | 24.078 | 24.062 | -0.0152 |
| 24 | 50 | Bias | 24.08 | 24.067 | -0.0134 |
| 25 | 50 | Bias | 24.053 | 24.043 | -0.0101 |
| 26 | 50 | Unbiased | 24.16 | 24.14 | -0.0197 |
| 27 | 50 | Unbiased | 24.044 | 24.035 | -0.0089 |
| 28 | 50 | Unbiased | 24.041 | 24.051 | 0.0099 |
| 29 | 50 | Unbiased | 23.961 | 23.96 | -0.0002 |
| 30 | 50 | Unbiased | 24.169 | 24.169 | -0.0007 |
| 31 | 0 | Correlation | 24.148 | 24.148 | 0.0006 |
| 32 | 0 | Correlation | 24.12 | 24.119 | -0.0008 |
| 33 | 0 | Correlation | 24.055 | 24.052 | -0.0034 |
| 34 | 0 | Correlation | 24.131 | 24.04 | -0.092 |

## Test Statistics (uA)
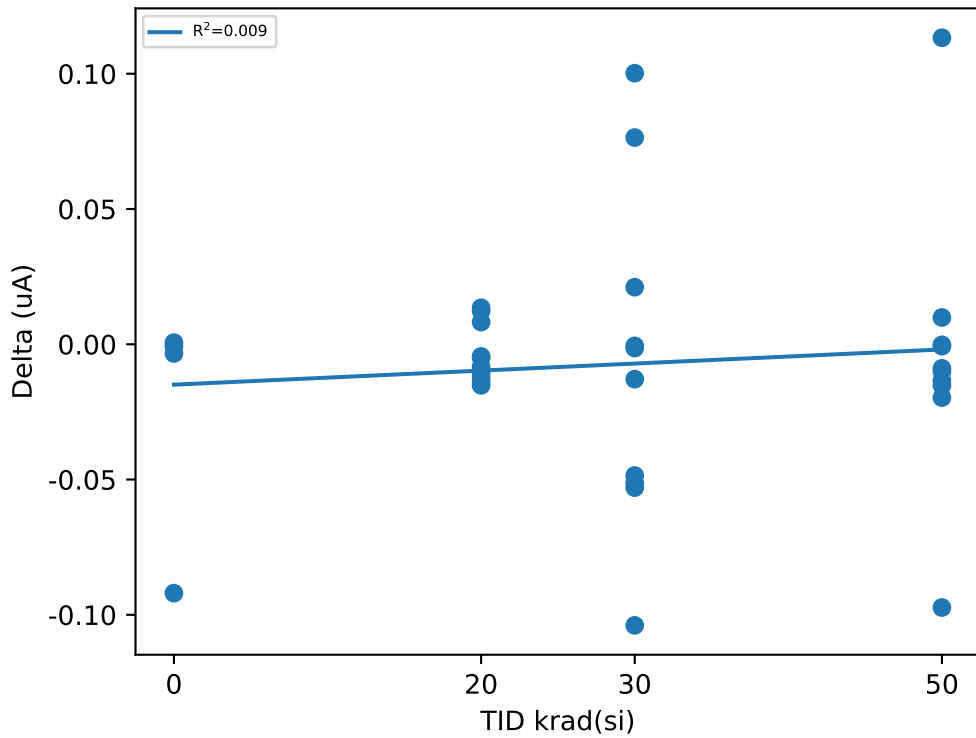
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 24.055 | 24.114 | 24.148 | 0.040726 | 24.04 | 24.09 | 24.148 | 0.052653 | -0.092 | -0.0239 | 0.0006 | 0.04543 |
| 20 | 24.019 | 24.081 | 24.184 | 0.055545 | 24.009 | 24.078 | 24.169 | 0.052033 | -0.0152 | -0.00358 | 0.0135 | 0.010926 |
| 30 | 24.05 | 24.081 | 24.159 | 0.032922 | 24.03 | 24.074 | 24.167 | 0.041836 | -0.1039 | -0.00739 | 0.1002 | 0.061943 |
| 50 | 23.961 | 24.059 | 24.169 | 0.068819 | 23.942 | 24.055 | 24.169 | 0.069136 | -0.0973 | -0.00423 | 0.1133 | 0.050776 |

# Device Test: 15.27  IHYS(_CURRENT|SENSE4/SENSE4//3/0/0/0/@IHYS )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (uA))

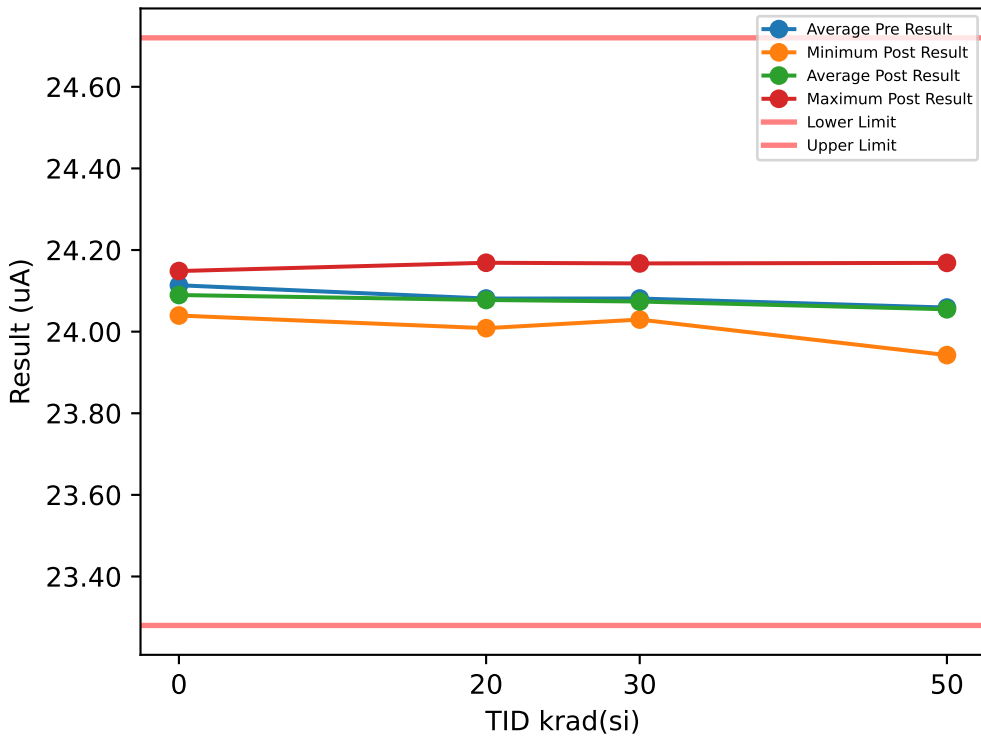| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.066 | 24.068 | 0.0023 |
| 2 | 20 | Bias | 24.028 | 24.02 | -0.0073 |
| 3 | 20 | Bias | 24.025 | 24.036 | 0.0109 |
| 4 | 20 | Bias | 24.025 | 24.023 | -0.0026 |
| 5 | 20 | Bias | 23.951 | 23.932 | -0.0187 |
| 6 | 20 | Unbiased | 24.051 | 24.06 | 0.0089 |
| 7 | 20 | Unbiased | 24.059 | 24.071 | 0.0119 |
| 8 | 20 | Unbiased | 24.075 | 24.065 | -0.01 |
| 9 | 20 | Unbiased | 24.139 | 24.122 | -0.017 |
| 10 | 20 | Unbiased | 24.076 | 24.062 | -0.014 |
| 11 | 30 | Bias | 24.177 | 23.994 | -0.1836 |
| 12 | 30 | Bias | 24.042 | 24.156 | 0.1137 |
| 13 | 30 | Bias | 24.084 | 24.039 | -0.0447 |
| 14 | 30 | Bias | 24.033 | 24.096 | 0.0631 |
| 15 | 30 | Bias | 24.121 | 24.036 | -0.0848 |
| 16 | 30 | Unbiased | 24.071 | 24.126 | 0.0554 |
| 17 | 30 | Unbiased | 24.093 | 24.068 | -0.0258 |
| 18 | 30 | Unbiased | 24.025 | 24.095 | 0.0706 |
| 19 | 30 | Unbiased | 24.02 | 24.017 | -0.0028 |
| 20 | 30 | Unbiased | 23.997 | 24.003 | 0.0052 |
| 21 | 50 | Bias | 24.03 | 23.988 | -0.0419 |
| 22 | 50 | Bias | 24.021 | 24.005 | -0.0163 |
| 23 | 50 | Bias | 24.044 | 24.044 | 0.0001 |
| 24 | 50 | Bias | 24.065 | 24.026 | -0.0382 |
| 25 | 50 | Bias | 24.098 | 24.09 | -0.008 |
| 26 | 50 | Unbiased | 24.093 | 24.076 | -0.0174 |
| 27 | 50 | Unbiased | 24.059 | 24.051 | -0.0084 |
| 28 | 50 | Unbiased | 24.07 | 24.08 | 0.0101 |
| 29 | 50 | Unbiased | 23.97 | 23.971 | 0.0009 |
| 30 | 50 | Unbiased | 24.097 | 24.102 | 0.0047 |
| 31 | 0 | Correlation | 24.22 | 24.219 | -0.0009 |
| 32 | 0 | Correlation | 24.053 | 24.052 | -0.0012 |
| 33 | 0 | Correlation | 24.006 | 24.003 | -0.0035 |
| 34 | 0 | Correlation | 24.132 | 24.001 | -0.1315 |

## Test Statistics (uA)
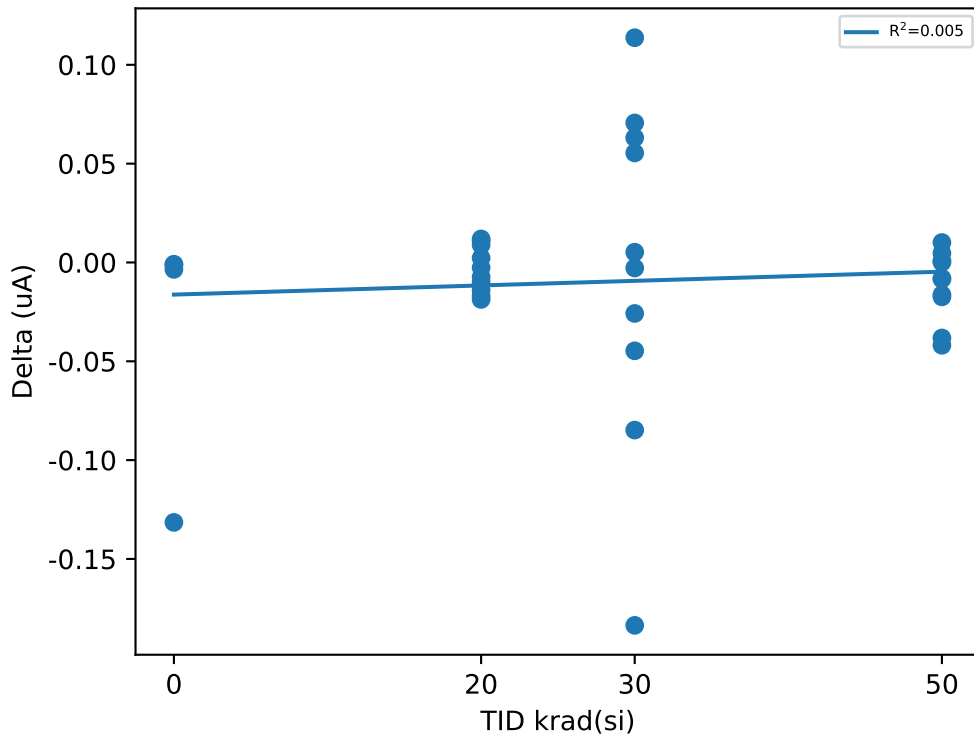
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 24.006 | 24.103 | 24.22 | 0.093709 | 24.001 | 24.068 | 24.219 | 0.10289 | -0.1315 | -0.034275 | -0.0009 | 0.064827 |
| 20 | 23.951 | 24.05 | 24.139 | 0.048406 | 23.932 | 24.046 | 24.122 | 0.049364 | -0.0187 | -0.00356 | 0.0119 | 0.011609 |
| 30 | 23.997 | 24.066 | 24.177 | 0.054434 | 23.994 | 24.063 | 24.156 | 0.054406 | -0.1836 | -0.00337 | 0.1137 | 0.087208 |
| 50 | 23.97 | 24.055 | 24.098 | 0.040212 | 23.971 | 24.043 | 24.102 | 0.044876 | -0.0419 | -0.01144 | 0.0101 | 0.017429 |

# Device Test: 15.28  IHYS(_CURRENT|SENSE1/SENSE1//14/0/0/0/@IHYS )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (uA))

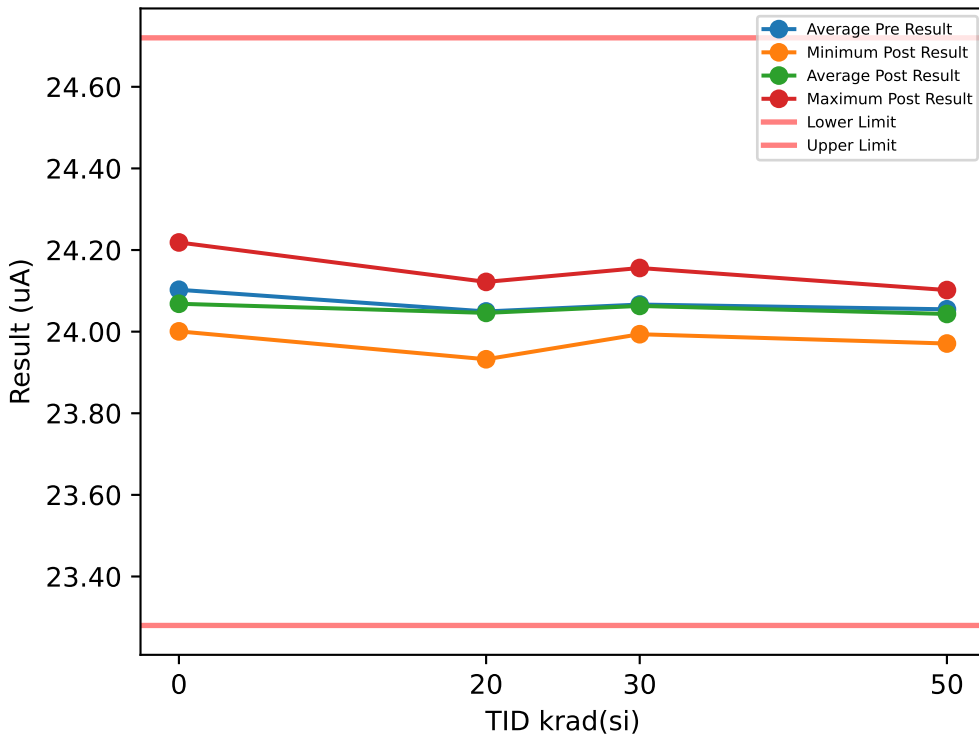| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.076 | 24.08 | 0.0035 |
| 2 | 20 | Bias | 24.057 | 24.049 | -0.0086 |
| 3 | 20 | Bias | 23.978 | 23.987 | 0.0088 |
| 4 | 20 | Bias | 24.077 | 24.073 | -0.0041 |
| 5 | 20 | Bias | 24.02 | 24.005 | -0.0146 |
| 6 | 20 | Unbiased | 24.076 | 24.088 | 0.0117 |
| 7 | 20 | Unbiased | 24.016 | 24.025 | 0.0089 |
| 8 | 20 | Unbiased | 24.062 | 24.055 | -0.0072 |
| 9 | 20 | Unbiased | 24.166 | 24.156 | -0.0105 |
| 10 | 20 | Unbiased | 24.146 | 24.133 | -0.0123 |
| 11 | 30 | Bias | 24.152 | 23.915 | -0.2373 |
| 12 | 30 | Bias | 24.079 | 24.134 | 0.0547 |
| 13 | 30 | Bias | 24.046 | 24.077 | 0.031 |
| 14 | 30 | Bias | 24.065 | 24.062 | -0.0031 |
| 15 | 30 | Bias | 24.13 | 24.07 | -0.0594 |
| 16 | 30 | Unbiased | 24.081 | 24.139 | 0.0583 |
| 17 | 30 | Unbiased | 24.066 | 24.074 | 0.0081 |
| 18 | 30 | Unbiased | 24.084 | 24.067 | -0.0163 |
| 19 | 30 | Unbiased | 24.086 | 24.078 | -0.0084 |
| 20 | 30 | Unbiased | 24.074 | 24.069 | -0.0051 |
| 21 | 50 | Bias | 23.973 | 24.066 | 0.0932 |
| 22 | 50 | Bias | 24.087 | 23.947 | -0.1406 |
| 23 | 50 | Bias | 24.056 | 24.109 | 0.0527 |
| 24 | 50 | Bias | 24.036 | 24.043 | 0.0063 |
| 25 | 50 | Bias | 24.051 | 24.046 | -0.0052 |
| 26 | 50 | Unbiased | 24.033 | 24.018 | -0.0147 |
| 27 | 50 | Unbiased | 24.008 | 23.998 | -0.0097 |
| 28 | 50 | Unbiased | 23.997 | 24.009 | 0.0115 |
| 29 | 50 | Unbiased | 23.943 | 23.945 | 0.002 |
| 30 | 50 | Unbiased | 24.092 | 24.095 | 0.0033 |
| 31 | 0 | Correlation | 24.117 | 24.116 | -0.0015 |
| 32 | 0 | Correlation | 24.121 | 24.12 | -0.0007 |
| 33 | 0 | Correlation | 24.042 | 24.041 | -0.0007 |
| 34 | 0 | Correlation | 24.108 | 23.92 | -0.188 |

## Test Statistics (uA)
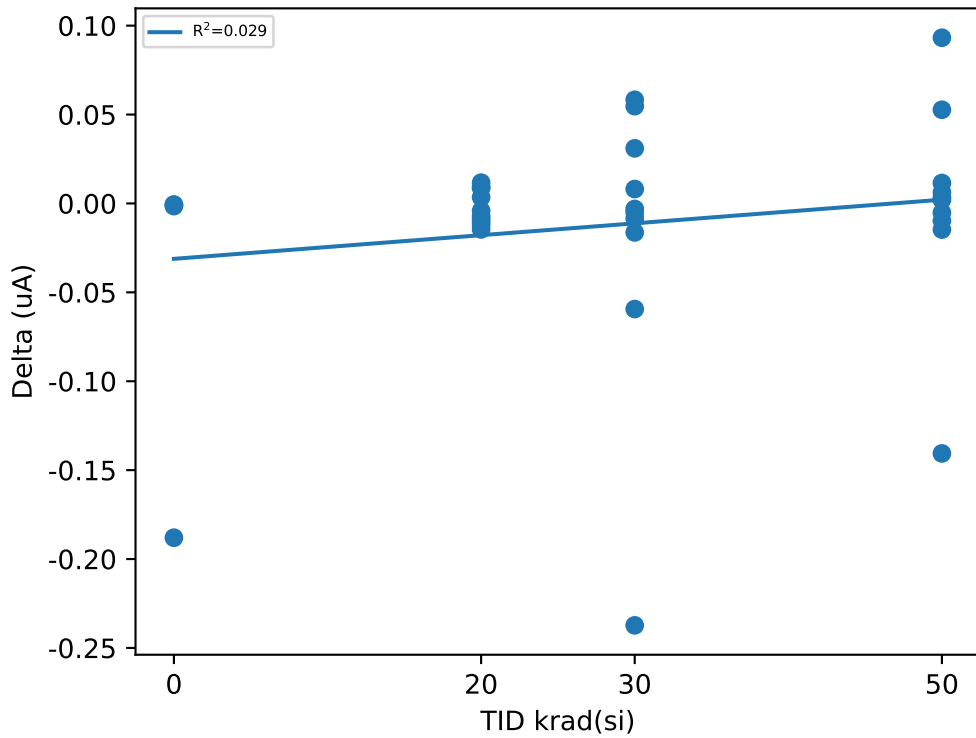
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 24.042 | 24.097 | 24.121 | 0.037269 | 23.92 | 24.049 | 24.12 | 0.093425 | -0.188 | -0.047725 | -0.0007 | 0.093517 |
| 20 | 23.978 | 24.067 | 24.166 | 0.057039 | 23.987 | 24.065 | 24.156 | 0.05323 | -0.0146 | -0.00244 | 0.0117 | 0.0097955 |
| 30 | 24.046 | 24.086 | 24.152 | 0.031544 | 23.915 | 24.069 | 24.139 | 0.060678 | -0.2373 | -0.01775 | 0.0583 | 0.084642 |
| 50 | 23.943 | 24.028 | 24.092 | 0.047868 | 23.945 | 24.028 | 24.109 | 0.055664 | -0.1406 | -0.00012 | 0.0932 | 0.059401 |

# Device Test: 15.29  IHYS(_CURRENT|SENSE2/SENSE2//14/0/0/0/@IHYS )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (uA))

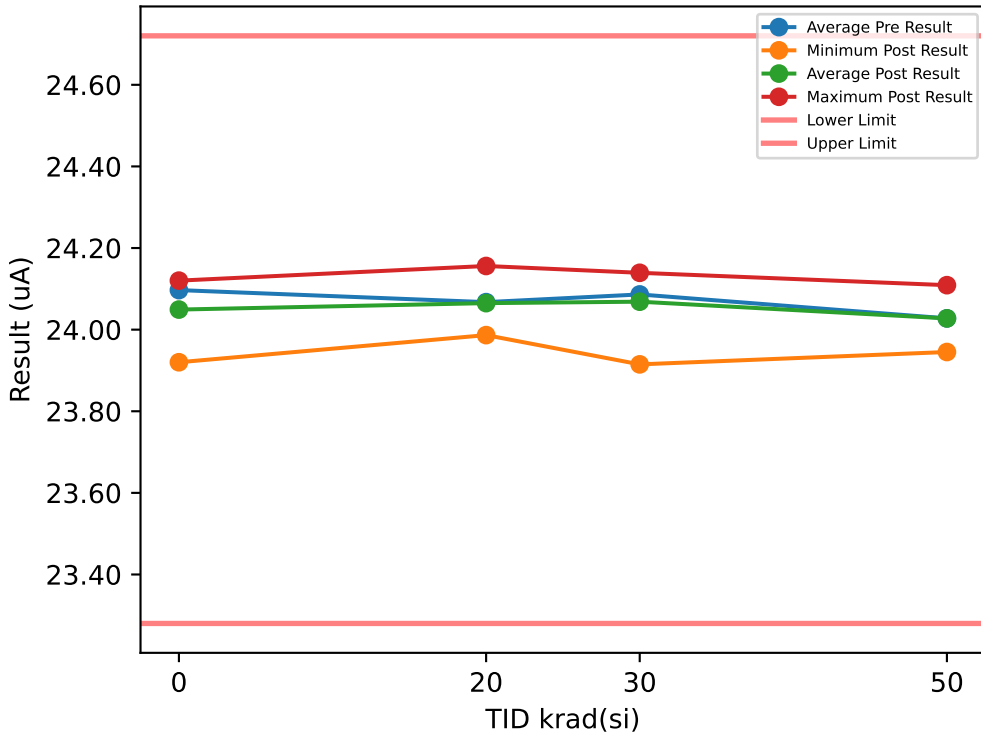| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.096 | 24.1 | 0.0038 |
| 2 | 20 | Bias | 24.068 | 24.061 | -0.0065 |
| 3 | 20 | Bias | 24.002 | 24.014 | 0.012 |
| 4 | 20 | Bias | 24.056 | 24.056 | -0.0009 |
| 5 | 20 | Bias | 23.988 | 23.977 | -0.0105 |
| 6 | 20 | Unbiased | 24.055 | 24.064 | 0.009 |
| 7 | 20 | Unbiased | 24.126 | 24.134 | 0.0079 |
| 8 | 20 | Unbiased | 24.074 | 24.063 | -0.0105 |
| 9 | 20 | Unbiased | 24.159 | 24.148 | -0.0113 |
| 10 | 20 | Unbiased | 24.181 | 24.169 | -0.0123 |
| 11 | 30 | Bias | 24.115 | 23.962 | -0.1536 |
| 12 | 30 | Bias | 24.099 | 24.094 | -0.005 |
| 13 | 30 | Bias | 24.067 | 24.096 | 0.0289 |
| 14 | 30 | Bias | 24.079 | 24.078 | -0.0015 |
| 15 | 30 | Bias | 24.154 | 24.084 | -0.0701 |
| 16 | 30 | Unbiased | 24.134 | 24.163 | 0.0288 |
| 17 | 30 | Unbiased | 24.081 | 24.131 | 0.0508 |
| 18 | 30 | Unbiased | 23.978 | 24.084 | 0.1065 |
| 19 | 30 | Unbiased | 24.034 | 23.978 | -0.0554 |
| 20 | 30 | Unbiased | 24.113 | 24.018 | -0.0955 |
| 21 | 50 | Bias | 23.97 | 24.105 | 0.1344 |
| 22 | 50 | Bias | 24.117 | 23.941 | -0.1764 |
| 23 | 50 | Bias | 24.113 | 24.139 | 0.0252 |
| 24 | 50 | Bias | 24.022 | 24.096 | 0.0739 |
| 25 | 50 | Bias | 24.127 | 24.116 | -0.0107 |
| 26 | 50 | Unbiased | 24.082 | 24.066 | -0.0162 |
| 27 | 50 | Unbiased | 24.027 | 24.02 | -0.0077 |
| 28 | 50 | Unbiased | 23.986 | 23.994 | 0.0078 |
| 29 | 50 | Unbiased | 24.006 | 24.006 | 0 |
| 30 | 50 | Unbiased | 24.112 | 24.111 | -0.0004 |
| 31 | 0 | Correlation | 24.177 | 24.175 | -0.0014 |
| 32 | 0 | Correlation | 24.14 | 24.138 | -0.0023 |
| 33 | 0 | Correlation | 24.104 | 24.1 | -0.0038 |
| 34 | 0 | Correlation | 24.212 | 23.968 | -0.2436 |

## Test Statistics (uA)
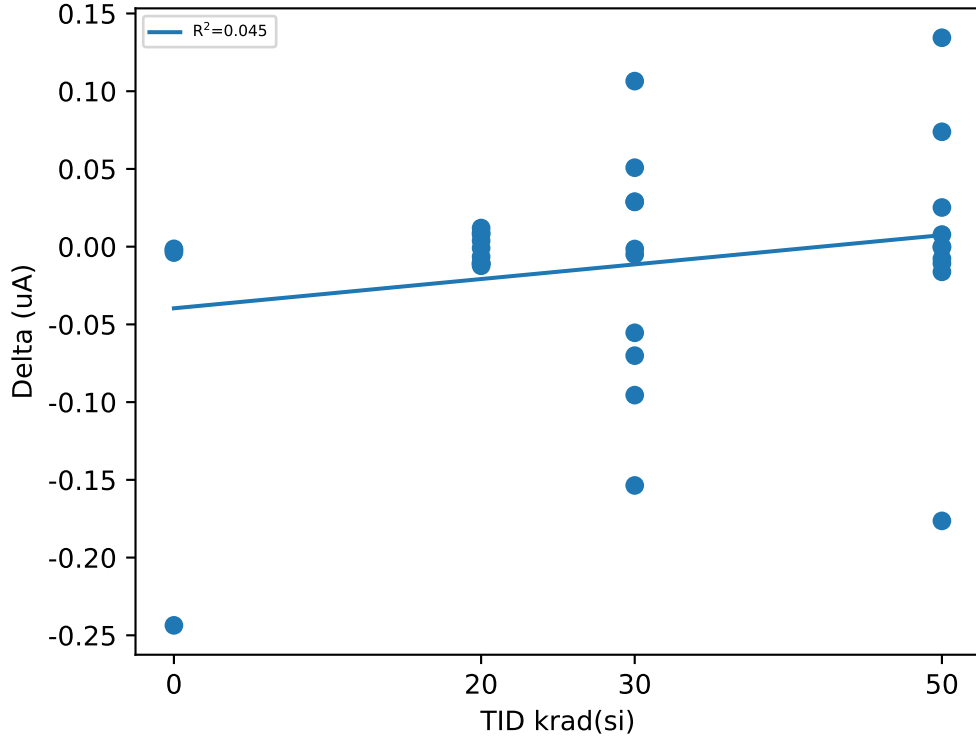
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 24.104 | 24.158 | 24.212 | 0.046632 | 23.968 | 24.095 | 24.175 | 0.090014 | -0.2436 | -0.062775 | -0.0014 | 0.12055 |
| 20 | 23.988 | 24.081 | 24.181 | 0.062329 | 23.977 | 24.079 | 24.169 | 0.059911 | -0.0123 | -0.00193 | 0.012 | 0.0094701 |
| 30 | 23.978 | 24.086 | 24.154 | 0.05127 | 23.962 | 24.069 | 24.163 | 0.064136 | -0.1536 | -0.01661 | 0.1065 | 0.077138 |
| 50 | 23.97 | 24.056 | 24.127 | 0.060156 | 23.941 | 24.059 | 24.139 | 0.065415 | -0.1764 | 0.00299 | 0.1344 | 0.078658 |

# Device Test: 15.30  IHYS(_CURRENT|SENSE3/SENSE3//14/0/0/0/@IHYS )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (uA))

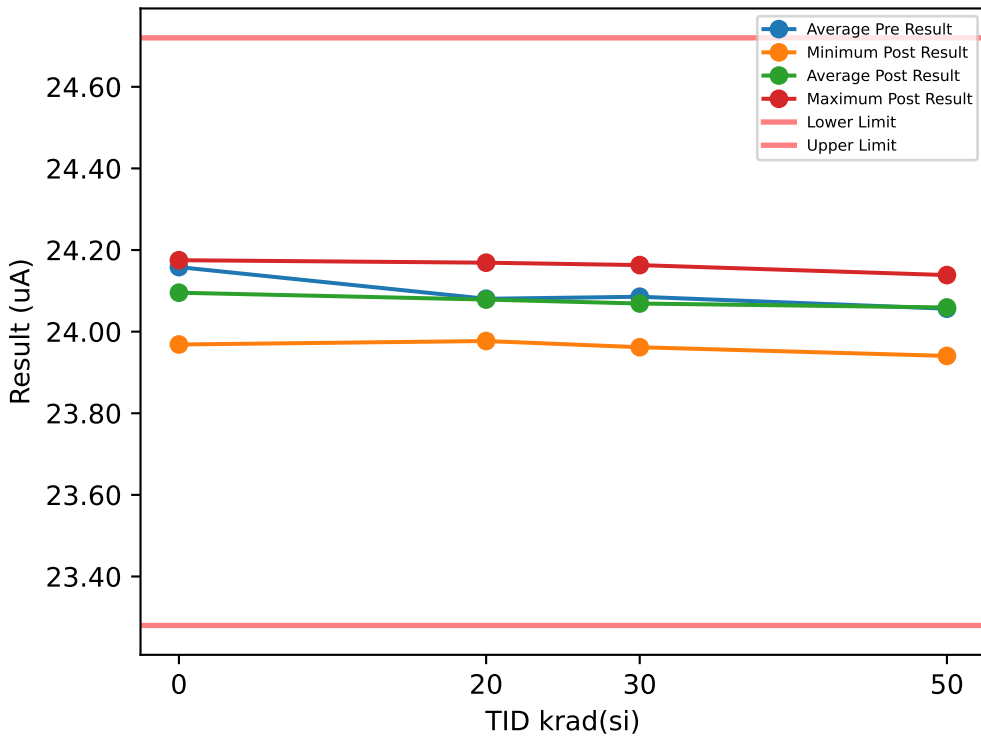| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.102 | 24.098 | -0.0036 |
| 2 | 20 | Bias | 24.024 | 24.013 | -0.0111 |
| 3 | 20 | Bias | 24.048 | 24.061 | 0.0128 |
| 4 | 20 | Bias | 24.066 | 24.059 | -0.0062 |
| 5 | 20 | Bias | 24.042 | 24.029 | -0.0128 |
| 6 | 20 | Unbiased | 24.044 | 24.055 | 0.0118 |
| 7 | 20 | Unbiased | 24.099 | 24.107 | 0.0077 |
| 8 | 20 | Unbiased | 24.08 | 24.073 | -0.0073 |
| 9 | 20 | Unbiased | 24.188 | 24.175 | -0.0127 |
| 10 | 20 | Unbiased | 24.175 | 24.161 | -0.014 |
| 11 | 30 | Bias | 24.088 | 24.036 | -0.0522 |
| 12 | 30 | Bias | 24.071 | 24.067 | -0.0041 |
| 13 | 30 | Bias | 24.118 | 24.067 | -0.0512 |
| 14 | 30 | Bias | 24.056 | 24.133 | 0.0769 |
| 15 | 30 | Bias | 24.165 | 24.059 | -0.1057 |
| 16 | 30 | Unbiased | 24.073 | 24.172 | 0.0989 |
| 17 | 30 | Unbiased | 24.082 | 24.069 | -0.0133 |
| 18 | 30 | Unbiased | 24.062 | 24.084 | 0.0219 |
| 19 | 30 | Unbiased | 24.061 | 24.058 | -0.0025 |
| 20 | 30 | Unbiased | 24.096 | 24.045 | -0.0504 |
| 21 | 50 | Bias | 23.972 | 24.083 | 0.1116 |
| 22 | 50 | Bias | 24.046 | 23.948 | -0.0975 |
| 23 | 50 | Bias | 24.084 | 24.067 | -0.0172 |
| 24 | 50 | Bias | 24.088 | 24.071 | -0.0164 |
| 25 | 50 | Bias | 24.058 | 24.049 | -0.0091 |
| 26 | 50 | Unbiased | 24.165 | 24.145 | -0.0203 |
| 27 | 50 | Unbiased | 24.052 | 24.041 | -0.011 |
| 28 | 50 | Unbiased | 24.045 | 24.055 | 0.0093 |
| 29 | 50 | Unbiased | 23.966 | 23.965 | -0.0002 |
| 30 | 50 | Unbiased | 24.174 | 24.174 | 0 |
| 31 | 0 | Correlation | 24.154 | 24.152 | -0.0017 |
| 32 | 0 | Correlation | 24.126 | 24.123 | -0.003 |
| 33 | 0 | Correlation | 24.062 | 24.057 | -0.0042 |
| 34 | 0 | Correlation | 24.137 | 24.046 | -0.0911 |

## Test Statistics (uA)
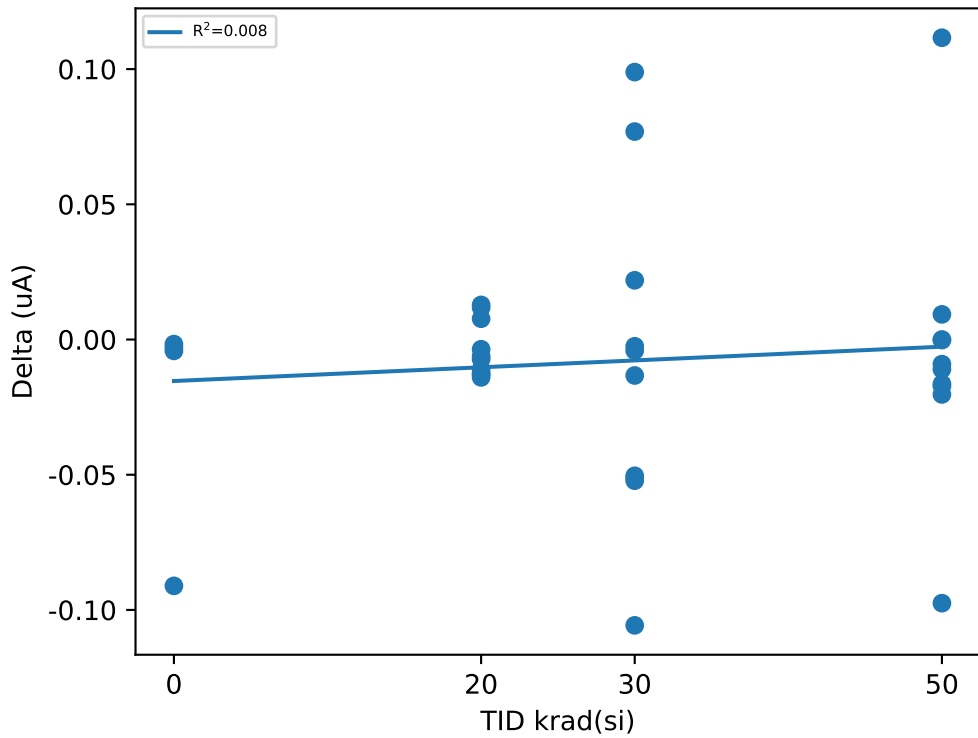
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 24.062 | 24.119 | 24.154 | 0.04023 | 24.046 | 24.094 | 24.152 | 0.051284 | -0.0911 | -0.025 | -0.0017 | 0.044078 |
| 20 | 24.024 | 24.087 | 24.188 | 0.05603 | 24.013 | 24.083 | 24.175 | 0.052897 | -0.014 | -0.00354 | 0.0128 | 0.010467 |
| 30 | 24.056 | 24.087 | 24.165 | 0.033164 | 24.036 | 24.079 | 24.172 | 0.041766 | -0.1057 | -0.00817 | 0.0989 | 0.062152 |
| 50 | 23.966 | 24.065 | 24.174 | 0.068478 | 23.948 | 24.06 | 24.174 | 0.068958 | -0.0975 | -0.00508 | 0.1116 | 0.050519 |

# Device Test: 15.31  IHYS(_CURRENT|SENSE4/SENSE4//14/0/0/0/@IHYS )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

## TID vs Post - Pre Exposure Delta



- $R^2=0.005$

## Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (uA))

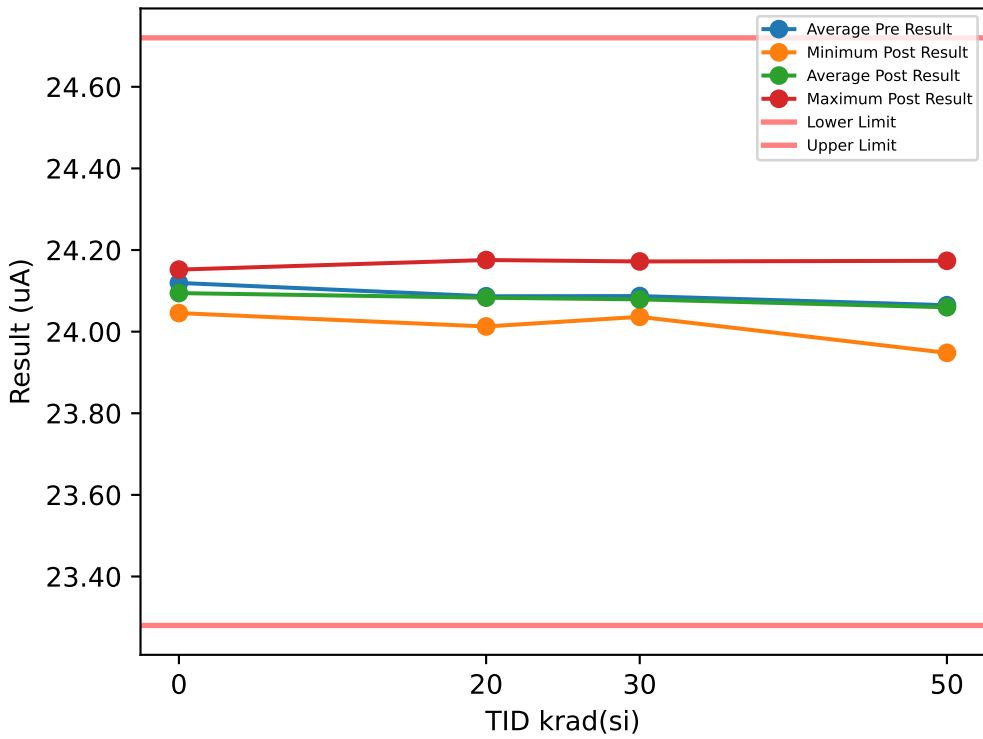| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.07 | 24.073 | 0.0022 |
| 2 | 20 | Bias | 24.033 | 24.026 | -0.0071 |
| 3 | 20 | Bias | 24.028 | 24.04 | 0.0123 |
| 4 | 20 | Bias | 24.03 | 24.029 | -0.0012 |
| 5 | 20 | Bias | 23.955 | 23.937 | -0.0172 |
| 6 | 20 | Unbiased | 24.057 | 24.065 | 0.008 |
| 7 | 20 | Unbiased | 24.066 | 24.076 | 0.0094 |
| 8 | 20 | Unbiased | 24.079 | 24.069 | -0.0102 |
| 9 | 20 | Unbiased | 24.143 | 24.128 | -0.0153 |
| 10 | 20 | Unbiased | 24.082 | 24.069 | -0.0138 |
| 11 | 30 | Bias | 24.183 | 24 | -0.1822 |
| 12 | 30 | Bias | 24.048 | 24.16 | 0.1123 |
| 13 | 30 | Bias | 24.09 | 24.042 | -0.0475 |
| 14 | 30 | Bias | 24.038 | 24.103 | 0.0644 |
| 15 | 30 | Bias | 24.127 | 24.041 | -0.0854 |
| 16 | 30 | Unbiased | 24.077 | 24.131 | 0.0542 |
| 17 | 30 | Unbiased | 24.099 | 24.073 | -0.0266 |
| 18 | 30 | Unbiased | 24.03 | 24.101 | 0.0718 |
| 19 | 30 | Unbiased | 24.026 | 24.024 | -0.0028 |
| 20 | 30 | Unbiased | 24.004 | 24.01 | 0.0057 |
| 21 | 50 | Bias | 24.035 | 23.993 | -0.042 |
| 22 | 50 | Bias | 24.026 | 24.01 | -0.0153 |
| 23 | 50 | Bias | 24.049 | 24.05 | 0.0005 |
| 24 | 50 | Bias | 24.07 | 24.032 | -0.0378 |
| 25 | 50 | Bias | 24.103 | 24.095 | -0.0079 |
| 26 | 50 | Unbiased | 24.099 | 24.08 | -0.0187 |
| 27 | 50 | Unbiased | 24.065 | 24.056 | -0.0088 |
| 28 | 50 | Unbiased | 24.074 | 24.083 | 0.0093 |
| 29 | 50 | Unbiased | 23.974 | 23.974 | -0.0001 |
| 30 | 50 | Unbiased | 24.104 | 24.106 | 0.002 |
| 31 | 0 | Correlation | 24.224 | 24.222 | -0.002 |
| 32 | 0 | Correlation | 24.058 | 24.057 | -0.0011 |
| 33 | 0 | Correlation | 24.012 | 24.008 | -0.0041 |
| 34 | 0 | Correlation | 24.137 | 24.007 | -0.1294 |

## Test Statistics (uA)
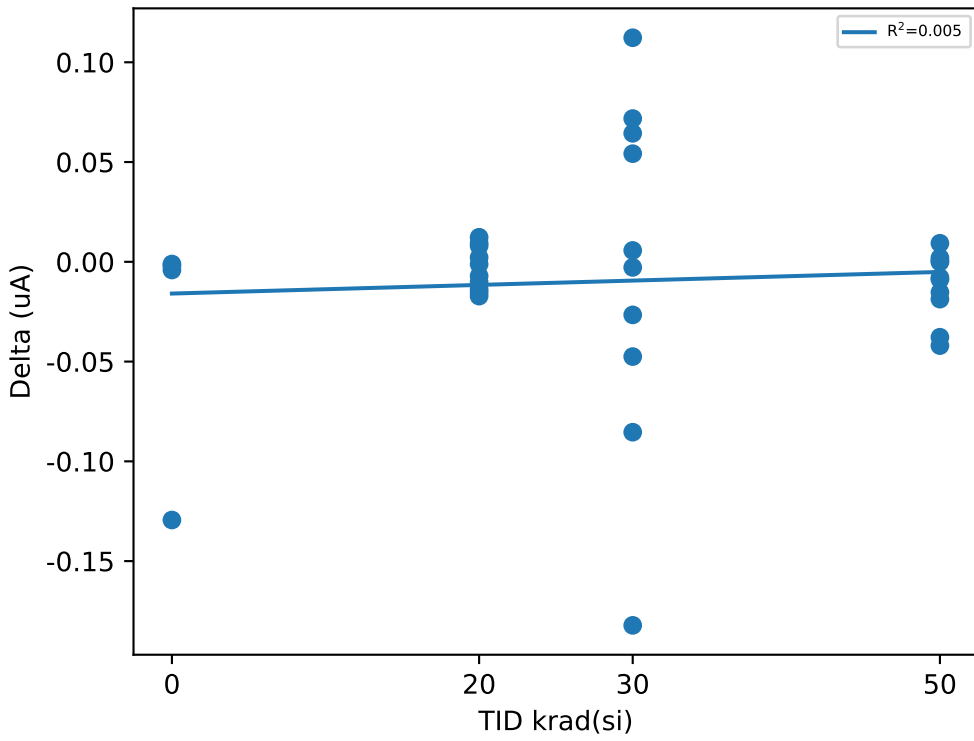
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 24.012 | 24.108 | 24.224 | 0.093284 | 24.007 | 24.073 | 24.222 | 0.10181 | -0.1294 | -0.03415 | -0.0011 | 0.063512 |
| 20 | 23.955 | 24.054 | 24.143 | 0.048718 | 23.937 | 24.051 | 24.128 | 0.049357 | -0.0172 | -0.00329 | 0.0123 | 0.010937 |
| 30 | 24.004 | 24.072 | 24.183 | 0.054258 | 24 | 24.069 | 24.16 | 0.053786 | -0.1822 | -0.00361 | 0.1123 | 0.08706 |
| 50 | 23.974 | 24.06 | 24.104 | 0.040741 | 23.974 | 24.048 | 24.106 | 0.044846 | -0.042 | -0.01188 | 0.0093 | 0.016983 |
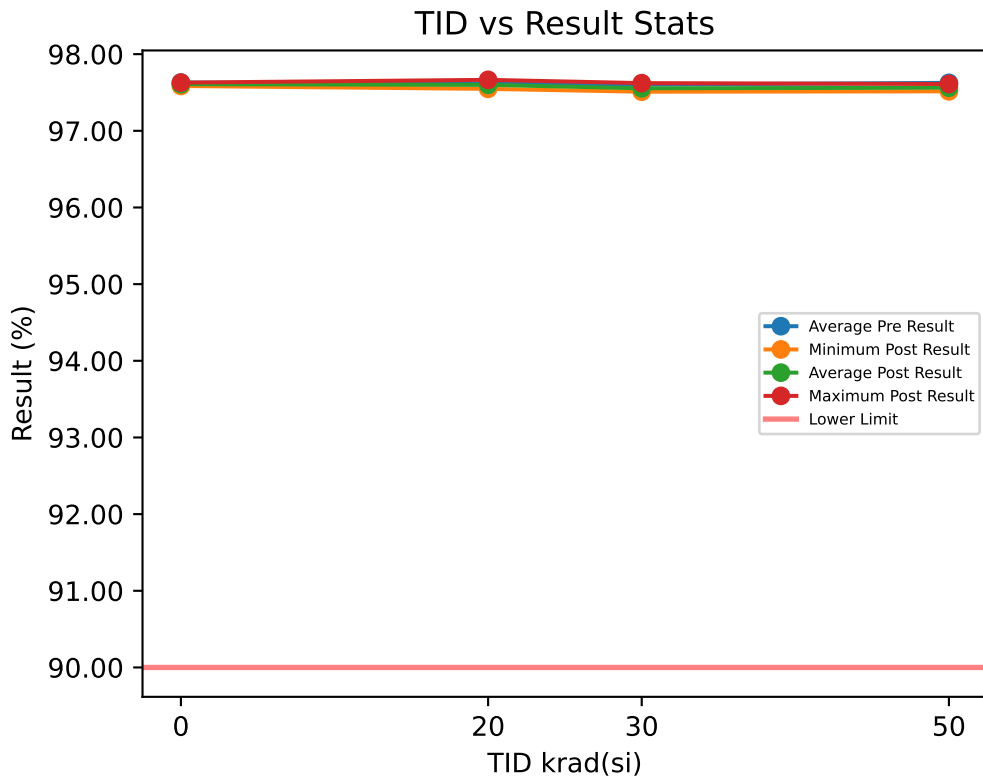
# Device Test: 15.32 VOH_EN_2MA(_EVEL|VOH/EN1/1.6/3/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

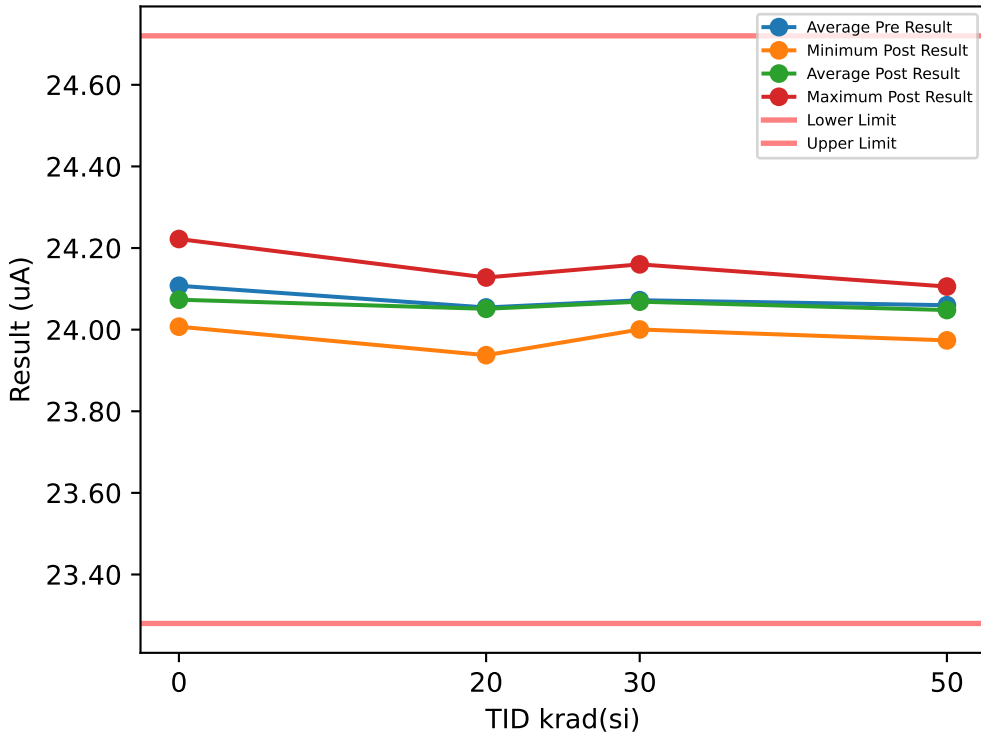| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.566 | 97.554 | -0.0117 |
| 2 | 20 | Bias | 97.57 | 97.555 | -0.0156 |
| 3 | 20 | Bias | 97.567 | 97.547 | -0.0203 |
| 4 | 20 | Bias | 97.663 | 97.651 | -0.0125 |
| 5 | 20 | Bias | 97.622 | 97.606 | -0.0157 |
| 6 | 20 | Unbiased | 97.618 | 97.609 | -0.0088 |
| 7 | 20 | Unbiased | 97.616 | 97.599 | -0.0172 |
| 8 | 20 | Unbiased | 97.68 | 97.665 | -0.015 |
| 9 | 20 | Unbiased | 97.612 | 97.595 | -0.0164 |
| 10 | 20 | Unbiased | 97.634 | 97.612 | -0.0223 |
| 11 | 30 | Bias | 97.561 | 97.55 | -0.0108 |
| 12 | 30 | Bias | 97.592 | 97.517 | -0.0757 |
| 13 | 30 | Bias | 97.58 | 97.547 | -0.0326 |
| 14 | 30 | Bias | 97.622 | 97.533 | -0.0892 |
| 15 | 30 | Bias | 97.553 | 97.577 | 0.0243 |
| 16 | 30 | Unbiased | 97.663 | 97.51 | -0.1534 |
| 17 | 30 | Unbiased | 97.627 | 97.622 | -0.0049 |
| 18 | 30 | Unbiased | 97.621 | 97.585 | -0.036 |
| 19 | 30 | Unbiased | 97.569 | 97.578 | 0.0091 |
| 20 | 30 | Unbiased | 97.634 | 97.523 | -0.1107 |
| 21 | 50 | Bias | 97.628 | 97.576 | -0.0523 |
| 22 | 50 | Bias | 97.628 | 97.567 | -0.0607 |
| 23 | 50 | Bias | 97.626 | 97.569 | -0.0579 |
| 24 | 50 | Bias | 97.637 | 97.567 | -0.0701 |
| 25 | 50 | Bias | 97.664 | 97.611 | -0.0535 |
| 26 | 50 | Unbiased | 97.609 | 97.537 | -0.0724 |
| 27 | 50 | Unbiased | 97.645 | 97.582 | -0.0629 |
| 28 | 50 | Unbiased | 97.585 | 97.515 | -0.0699 |
| 29 | 50 | Unbiased | 97.612 | 97.544 | -0.0677 |
| 30 | 50 | Unbiased | 97.623 | 97.558 | -0.0648 |
| 31 | 0 | Correlation | 97.589 | 97.585 | -0.0045 |
| 32 | 0 | Correlation | 97.629 | 97.627 | -0.002 |
| 33 | 0 | Correlation | 97.632 | 97.629 | -0.0031 |
| 34 | 0 | Correlation | 97.667 | 97.594 | -0.0735 |
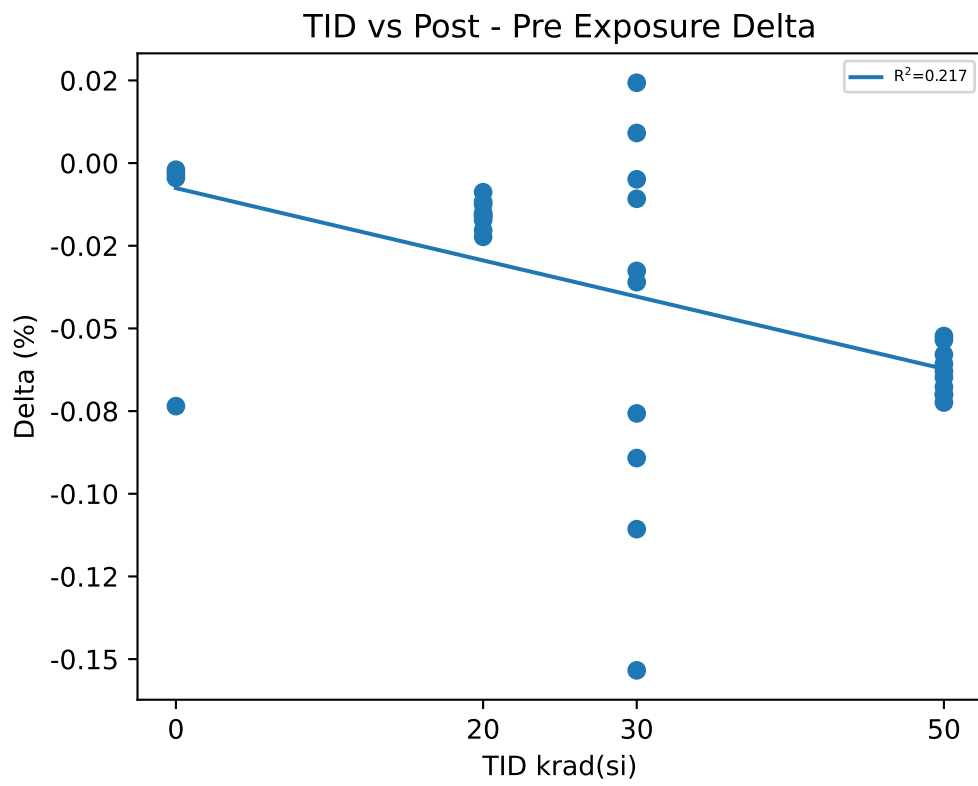
## Test Statistics (%)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.589 | 97.629 | 97.667 | 0.031891 | 97.585 | 97.609 | 97.629 | 0.02282 | -0.0735 | -0.020775 | -0.002 | 0.035165 |
| 20 | 97.566 | 97.615 | 97.68 | 0.038982 | 97.547 | 97.599 | 97.665 | 0.039497 | -0.0223 | -0.01555 | -0.0088 | 0.0039663 |
| 30 | 97.553 | 97.602 | 97.663 | 0.03634 | 97.51 | 97.554 | 97.622 | 0.035783 | -0.1534 | -0.04799 | 0.0243 | 0.057364 |
| 50 | 97.585 | 97.626 | 97.664 | 0.021434 | 97.515 | 97.562 | 97.611 | 0.026331 | -0.0724 | -0.06322 | -0.0523 | 0.0070496 |
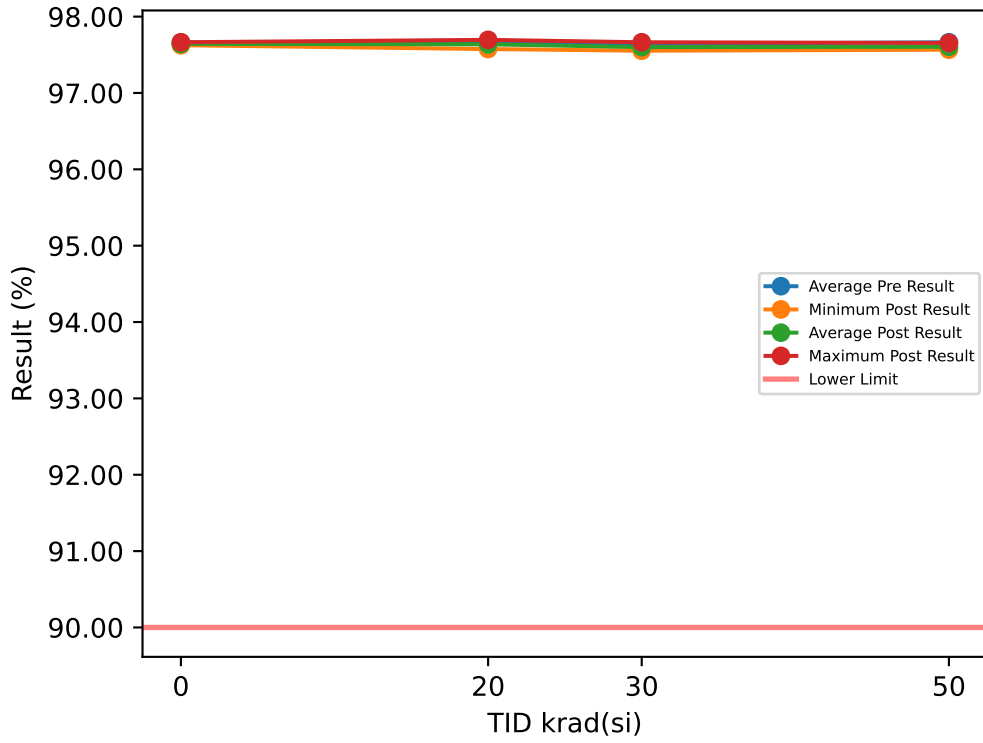
# Device Test: 15.33  VOH_EN_2MA(_EVEL|VOH/EN2/1.6/3/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.613 | 97.601 | -0.0125 |
| 2 | 20 | Bias | 97.618 | 97.604 | -0.0144 |
| 3 | 20 | Bias | 97.597 | 97.575 | -0.0215 |
| 4 | 20 | Bias | 97.709 | 97.696 | -0.0133 |
| 5 | 20 | Bias | 97.65 | 97.638 | -0.0125 |
| 6 | 20 | Unbiased | 97.647 | 97.635 | -0.0119 |
| 7 | 20 | Unbiased | 97.652 | 97.636 | -0.0158 |
| 8 | 20 | Unbiased | 97.709 | 97.693 | -0.0162 |
| 9 | 20 | Unbiased | 97.653 | 97.636 | -0.0172 |
| 10 | 20 | Unbiased | 97.674 | 97.658 | -0.0164 |
| 11 | 30 | Bias | 97.591 | 97.59 | -0.0009 |
| 12 | 30 | Bias | 97.621 | 97.553 | -0.0677 |
| 13 | 30 | Bias | 97.621 | 97.584 | -0.0373 |
| 14 | 30 | Bias | 97.671 | 97.583 | -0.0877 |
| 15 | 30 | Bias | 97.596 | 97.632 | 0.0358 |
| 16 | 30 | Unbiased | 97.695 | 97.56 | -0.1351 |
| 17 | 30 | Unbiased | 97.675 | 97.664 | -0.0112 |
| 18 | 30 | Unbiased | 97.656 | 97.64 | -0.0165 |
| 19 | 30 | Unbiased | 97.611 | 97.623 | 0.0118 |
| 20 | 30 | Unbiased | 97.674 | 97.574 | -0.0998 |
| 21 | 50 | Bias | 97.667 | 97.621 | -0.0453 |
| 22 | 50 | Bias | 97.659 | 97.614 | -0.0446 |
| 23 | 50 | Bias | 97.666 | 97.607 | -0.0592 |
| 24 | 50 | Bias | 97.677 | 97.618 | -0.0583 |
| 25 | 50 | Bias | 97.71 | 97.655 | -0.0551 |
| 26 | 50 | Unbiased | 97.644 | 97.578 | -0.0658 |
| 27 | 50 | Unbiased | 97.686 | 97.623 | -0.0628 |
| 28 | 50 | Unbiased | 97.635 | 97.569 | -0.0666 |
| 29 | 50 | Unbiased | 97.635 | 97.567 | -0.0683 |
| 30 | 50 | Unbiased | 97.663 | 97.599 | -0.064 |
| 31 | 0 | Correlation | 97.635 | 97.634 | -0.0012 |
| 32 | 0 | Correlation | 97.666 | 97.665 | -0.0013 |
| 33 | 0 | Correlation | 97.652 | 97.65 | -0.0016 |
| 34 | 0 | Correlation | 97.694 | 97.625 | -0.0692 |

## Test Statistics (%)
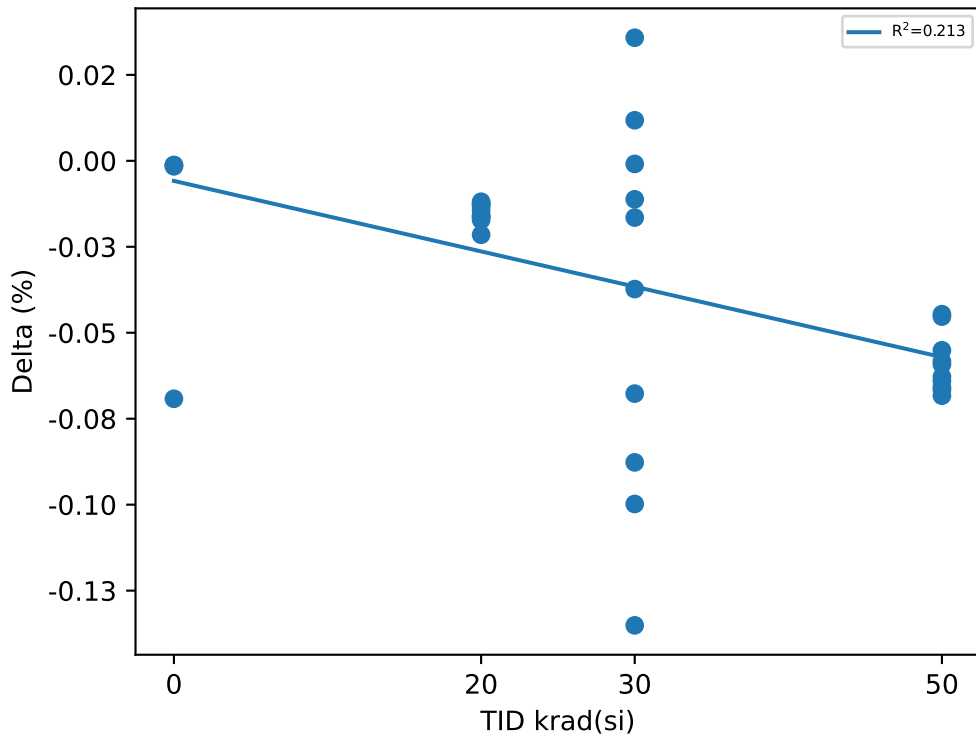
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.635 | 97.662 | 97.694 | 0.025148 | 97.625 | 97.643 | 97.665 | 0.017561 | -0.0692 | -0.018325 | -0.0012 | 0.033917 |
| 20 | 97.597 | 97.652 | 97.709 | 0.037652 | 97.575 | 97.637 | 97.696 | 0.038402 | -0.0215 | -0.01517 | -0.0119 | 0.0029098 |
| 30 | 97.591 | 97.641 | 97.695 | 0.037177 | 97.553 | 97.6 | 97.664 | 0.037023 | -0.1351 | -0.04086 | 0.0358 | 0.054774 |
| 50 | 97.635 | 97.664 | 97.71 | 0.02325 | 97.567 | 97.605 | 97.655 | 0.027688 | -0.0683 | -0.059 | -0.0446 | 0.0084375 |
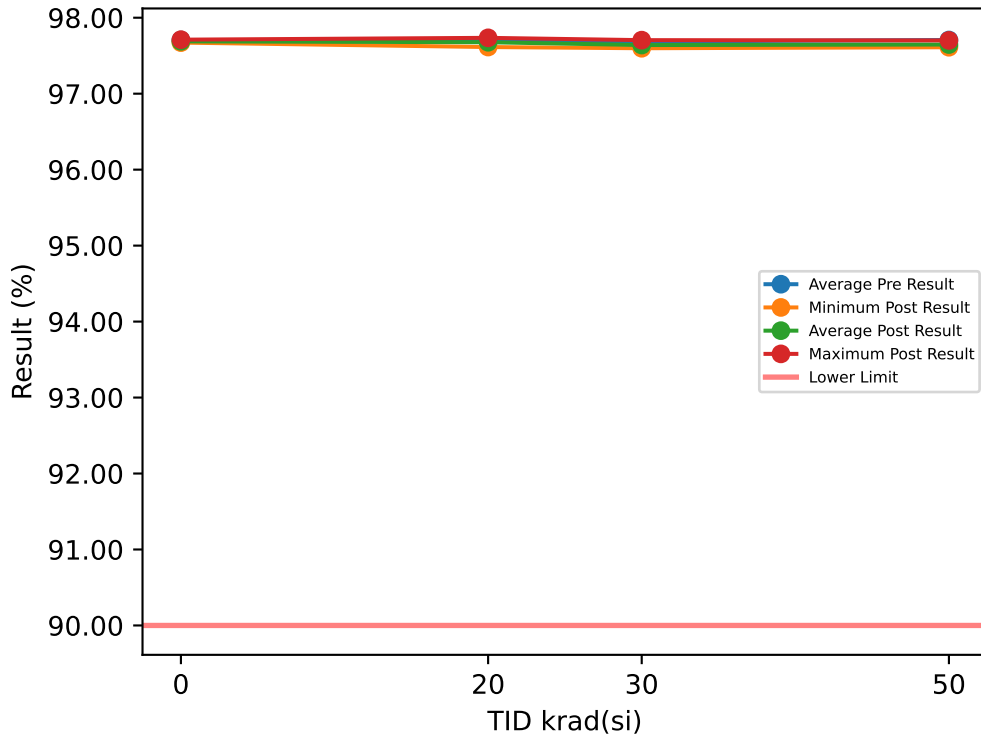
# Device Test: 15.34  VOH_EN_2MA(_EVEL|VOH/EN3/1.6/3/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.652 | 97.64 | -0.0115 |
| 2 | 20 | Bias | 97.654 | 97.637 | -0.0174 |
| 3 | 20 | Bias | 97.631 | 97.614 | -0.0175 |
| 4 | 20 | Bias | 97.74 | 97.727 | -0.0129 |
| 5 | 20 | Bias | 97.694 | 97.679 | -0.0149 |
| 6 | 20 | Unbiased | 97.696 | 97.682 | -0.014 |
| 7 | 20 | Unbiased | 97.698 | 97.682 | -0.0156 |
| 8 | 20 | Unbiased | 97.751 | 97.735 | -0.0156 |
| 9 | 20 | Unbiased | 97.694 | 97.678 | -0.0162 |
| 10 | 20 | Unbiased | 97.71 | 97.695 | -0.0153 |
| 11 | 30 | Bias | 97.64 | 97.633 | -0.0072 |
| 12 | 30 | Bias | 97.667 | 97.598 | -0.0686 |
| 13 | 30 | Bias | 97.668 | 97.625 | -0.0435 |
| 14 | 30 | Bias | 97.711 | 97.625 | -0.0858 |
| 15 | 30 | Bias | 97.644 | 97.666 | 0.0221 |
| 16 | 30 | Unbiased | 97.743 | 97.603 | -0.1396 |
| 17 | 30 | Unbiased | 97.72 | 97.705 | -0.0152 |
| 18 | 30 | Unbiased | 97.701 | 97.678 | -0.023 |
| 19 | 30 | Unbiased | 97.653 | 97.657 | 0.0047 |
| 20 | 30 | Unbiased | 97.718 | 97.612 | -0.1064 |
| 21 | 50 | Bias | 97.707 | 97.662 | -0.0451 |
| 22 | 50 | Bias | 97.704 | 97.652 | -0.0519 |
| 23 | 50 | Bias | 97.707 | 97.645 | -0.062 |
| 24 | 50 | Bias | 97.717 | 97.653 | -0.064 |
| 25 | 50 | Bias | 97.752 | 97.701 | -0.0507 |
| 26 | 50 | Unbiased | 97.689 | 97.621 | -0.0687 |
| 27 | 50 | Unbiased | 97.725 | 97.664 | -0.0611 |
| 28 | 50 | Unbiased | 97.678 | 97.611 | -0.0668 |
| 29 | 50 | Unbiased | 97.684 | 97.619 | -0.0646 |
| 30 | 50 | Unbiased | 97.705 | 97.642 | -0.063 |
| 31 | 0 | Correlation | 97.675 | 97.672 | -0.0025 |
| 32 | 0 | Correlation | 97.71 | 97.711 | 0.0008 |
| 33 | 0 | Correlation | 97.7 | 97.698 | -0.0017 |
| 34 | 0 | Correlation | 97.739 | 97.675 | -0.0642 |

## Test Statistics (%)
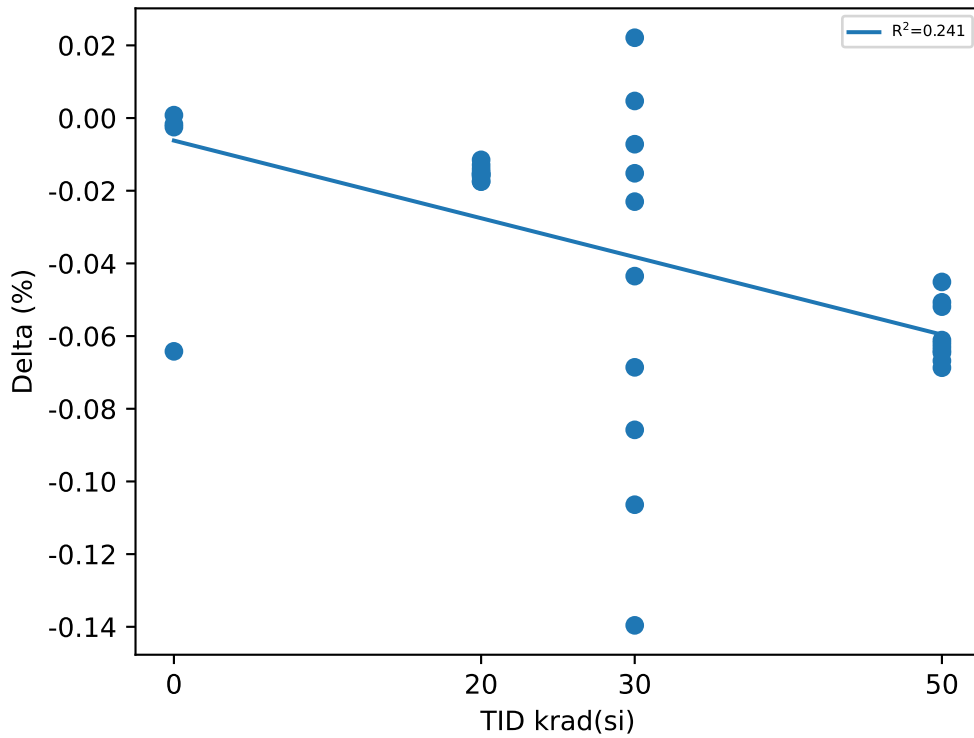
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.675 | 97.706 | 97.739 | 0.026564 | 97.672 | 97.689 | 97.711 | 0.018646 | -0.0642 | -0.0169 | 0.0008 | 0.031565 |
| 20 | 97.631 | 97.692 | 97.751 | 0.03783 | 97.614 | 97.677 | 97.735 | 0.038344 | -0.0175 | -0.01509 | -0.0115 | 0.0018812 |
| 30 | 97.64 | 97.686 | 97.743 | 0.036518 | 97.598 | 97.64 | 97.705 | 0.034938 | -0.1396 | -0.04625 | 0.0221 | 0.052388 |
| 50 | 97.678 | 97.707 | 97.752 | 0.021402 | 97.611 | 97.647 | 97.701 | 0.026402 | -0.0687 | -0.05979 | -0.0451 | 0.0077958 |
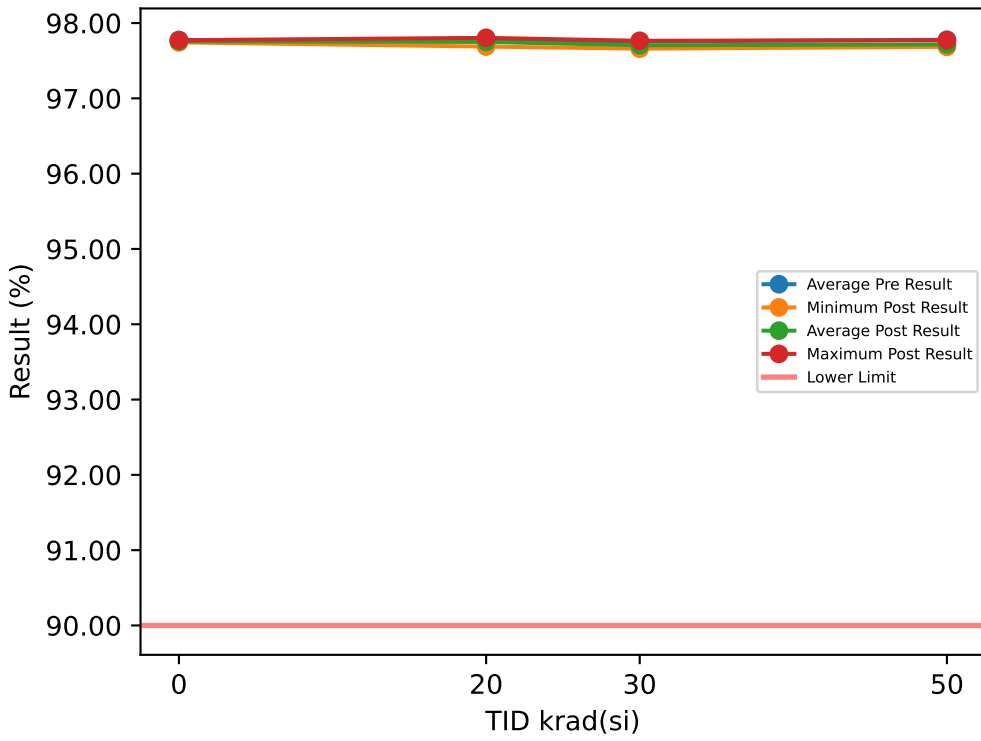
# Device Test: 15.35  VOH_EN_2MA(_EVEL|VOH/EN4/1.6/3/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.724 | 97.71 | -0.0141 |
| 2 | 20 | Bias | 97.728 | 97.71 | -0.0174 |
| 3 | 20 | Bias | 97.704 | 97.688 | -0.0164 |
| 4 | 20 | Bias | 97.816 | 97.8 | -0.0164 |
| 5 | 20 | Bias | 97.769 | 97.757 | -0.0122 |
| 6 | 20 | Unbiased | 97.768 | 97.759 | -0.009 |
| 7 | 20 | Unbiased | 97.766 | 97.749 | -0.0177 |
| 8 | 20 | Unbiased | 97.82 | 97.804 | -0.0158 |
| 9 | 20 | Unbiased | 97.763 | 97.745 | -0.0182 |
| 10 | 20 | Unbiased | 97.783 | 97.766 | -0.0162 |
| 11 | 30 | Bias | 97.71 | 97.698 | -0.0126 |
| 12 | 30 | Bias | 97.735 | 97.66 | -0.0747 |
| 13 | 30 | Bias | 97.74 | 97.69 | -0.0501 |
| 14 | 30 | Bias | 97.782 | 97.691 | -0.0907 |
| 15 | 30 | Bias | 97.709 | 97.731 | 0.0223 |
| 16 | 30 | Unbiased | 97.81 | 97.668 | -0.1418 |
| 17 | 30 | Unbiased | 97.792 | 97.765 | -0.0269 |
| 18 | 30 | Unbiased | 97.766 | 97.745 | -0.0202 |
| 19 | 30 | Unbiased | 97.726 | 97.722 | -0.0046 |
| 20 | 30 | Unbiased | 97.79 | 97.679 | -0.1108 |
| 21 | 50 | Bias | 97.778 | 97.733 | -0.0452 |
| 22 | 50 | Bias | 97.772 | 97.715 | -0.0566 |
| 23 | 50 | Bias | 97.777 | 97.708 | -0.0695 |
| 24 | 50 | Bias | 97.796 | 97.718 | -0.078 |
| 25 | 50 | Bias | 97.827 | 97.772 | -0.055 |
| 26 | 50 | Unbiased | 97.758 | 97.692 | -0.0661 |
| 27 | 50 | Unbiased | 97.793 | 97.731 | -0.0615 |
| 28 | 50 | Unbiased | 97.751 | 97.684 | -0.0675 |
| 29 | 50 | Unbiased | 97.756 | 97.692 | -0.0636 |
| 30 | 50 | Unbiased | 97.776 | 97.713 | -0.0623 |
| 31 | 0 | Correlation | 97.748 | 97.748 | 0 |
| 32 | 0 | Correlation | 97.772 | 97.773 | 0.0008 |
| 33 | 0 | Correlation | 97.771 | 97.769 | -0.0015 |
| 34 | 0 | Correlation | 97.81 | 97.743 | -0.0664 |

## Test Statistics (%)
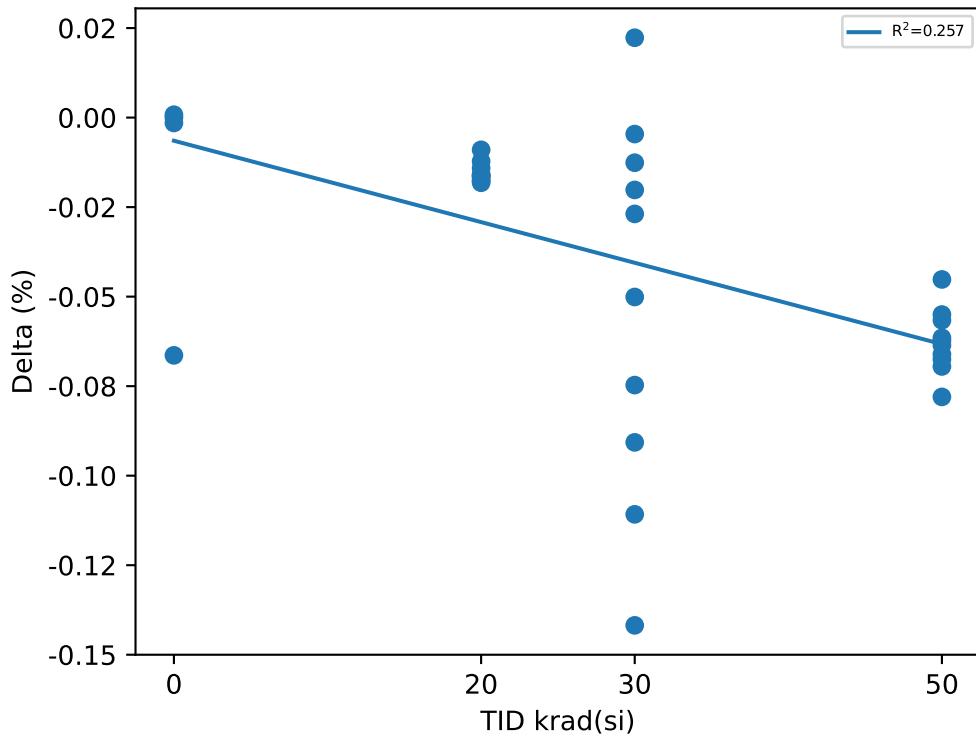
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.748 | 97.775 | 97.81 | 0.025779 | 97.743 | 97.758 | 97.773 | 0.014936 | -0.0664 | -0.016775 | 0.0008 | 0.033097 |
| 20 | 97.704 | 97.764 | 97.82 | 0.037559 | 97.688 | 97.749 | 97.804 | 0.03775 | -0.0182 | -0.01534 | -0.009 | 0.0028438 |
| 30 | 97.709 | 97.756 | 97.81 | 0.036539 | 97.66 | 97.705 | 97.765 | 0.034416 | -0.1418 | -0.05101 | 0.0223 | 0.052163 |
| 50 | 97.751 | 97.778 | 97.827 | 0.022568 | 97.684 | 97.716 | 97.772 | 0.02561 | -0.078 | -0.06253 | -0.0452 | 0.008943 |
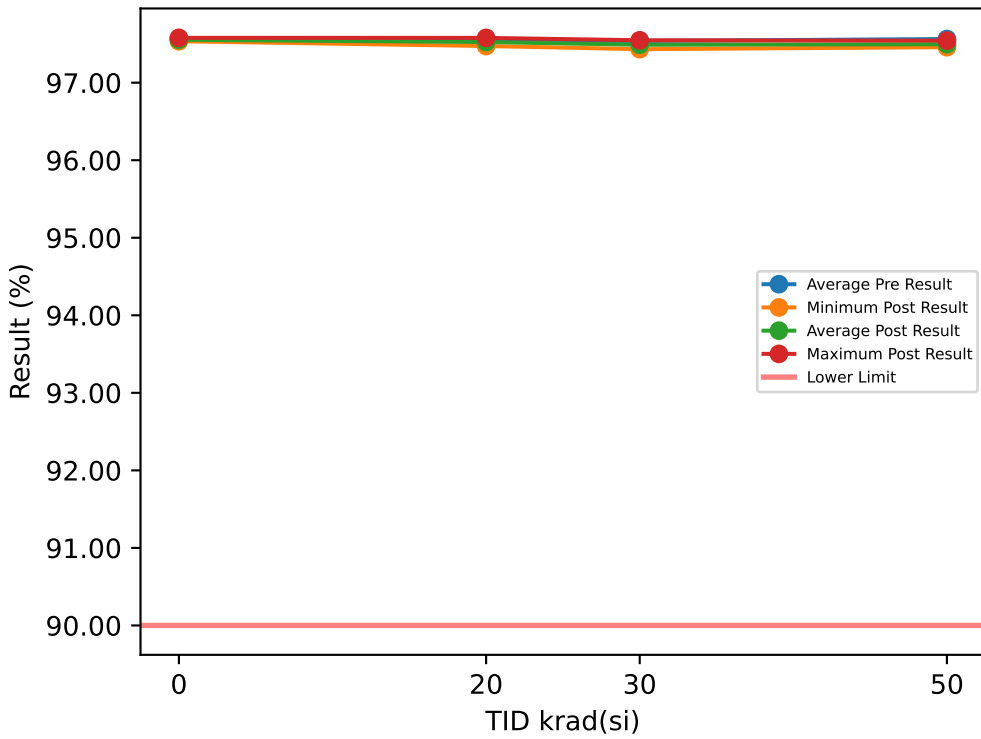
# Device Test: 15.36  VOH_SEQ_DONE_2MA(_EVEL|VOH/SEQ_DONE/1.6/3/0/0/2/@VOH_SEQ_DONE_2MA )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.281$

## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.496 | 97.478 | -0.0182 |
| 2 | 20 | Bias | 97.497 | 97.473 | -0.0233 |
| 3 | 20 | Bias | 97.49 | 97.473 | -0.0179 |
| 4 | 20 | Bias | 97.597 | 97.578 | -0.0193 |
| 5 | 20 | Bias | 97.552 | 97.54 | -0.0117 |
| 6 | 20 | Unbiased | 97.544 | 97.533 | -0.0113 |
| 7 | 20 | Unbiased | 97.543 | 97.526 | -0.0174 |
| 8 | 20 | Unbiased | 97.588 | 97.572 | -0.0154 |
| 9 | 20 | Unbiased | 97.54 | 97.52 | -0.0203 |
| 10 | 20 | Unbiased | 97.565 | 97.544 | -0.0209 |
| 11 | 30 | Bias | 97.481 | 97.493 | 0.0123 |
| 12 | 30 | Bias | 97.511 | 97.432 | -0.0788 |
| 13 | 30 | Bias | 97.529 | 97.468 | -0.0617 |
| 14 | 30 | Bias | 97.564 | 97.484 | -0.0804 |
| 15 | 30 | Bias | 97.5 | 97.518 | 0.0179 |
| 16 | 30 | Unbiased | 97.586 | 97.455 | -0.1312 |
| 17 | 30 | Unbiased | 97.566 | 97.547 | -0.0188 |
| 18 | 30 | Unbiased | 97.555 | 97.524 | -0.031 |
| 19 | 30 | Unbiased | 97.508 | 97.511 | 0.0031 |
| 20 | 30 | Unbiased | 97.581 | 97.457 | -0.1232 |
| 21 | 50 | Bias | 97.569 | 97.523 | -0.0463 |
| 22 | 50 | Bias | 97.56 | 97.508 | -0.0515 |
| 23 | 50 | Bias | 97.566 | 97.498 | -0.0681 |
| 24 | 50 | Bias | 97.578 | 97.503 | -0.0748 |
| 25 | 50 | Bias | 97.602 | 97.542 | -0.0606 |
| 26 | 50 | Unbiased | 97.543 | 97.466 | -0.0769 |
| 27 | 50 | Unbiased | 97.583 | 97.517 | -0.0657 |
| 28 | 50 | Unbiased | 97.538 | 97.46 | -0.0774 |
| 29 | 50 | Unbiased | 97.532 | 97.458 | -0.074 |
| 30 | 50 | Unbiased | 97.559 | 97.484 | -0.0747 |
| 31 | 0 | Correlation | 97.532 | 97.535 | 0.0029 |
| 32 | 0 | Correlation | 97.568 | 97.569 | 0.0008 |
| 33 | 0 | Correlation | 97.579 | 97.578 | -0.0012 |
| 34 | 0 | Correlation | 97.6 | 97.534 | -0.0652 |

## Test Statistics (%)
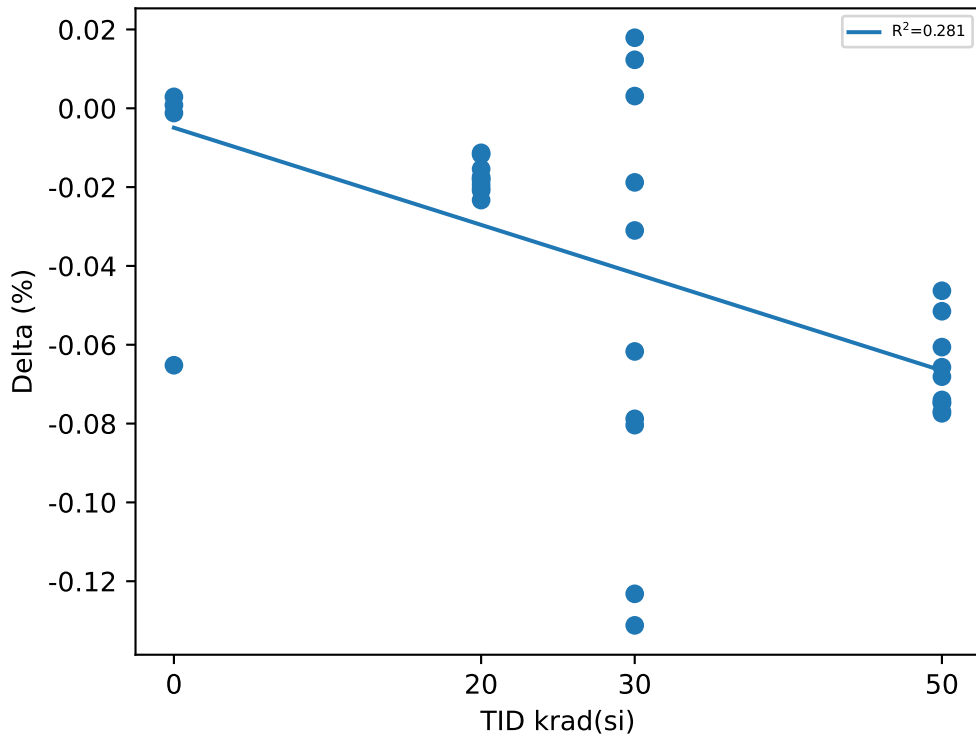
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.532 | 97.57 | 97.6 | 0.028412 | 97.534 | 97.554 | 97.578 | 0.02282 | -0.0652 | -0.015675 | 0.0029 | 0.033059 |
| 20 | 97.49 | 97.541 | 97.597 | 0.037393 | 97.473 | 97.524 | 97.578 | 0.038495 | -0.0233 | -0.01757 | -0.0113 | 0.0038497 |
| 30 | 97.481 | 97.538 | 97.586 | 0.036995 | 97.432 | 97.489 | 97.547 | 0.036221 | -0.1312 | -0.04918 | 0.0179 | 0.054243 |
| 50 | 97.532 | 97.563 | 97.602 | 0.02178 | 97.458 | 97.496 | 97.542 | 0.02844 | -0.0774 | -0.067 | -0.0463 | 0.010994 |
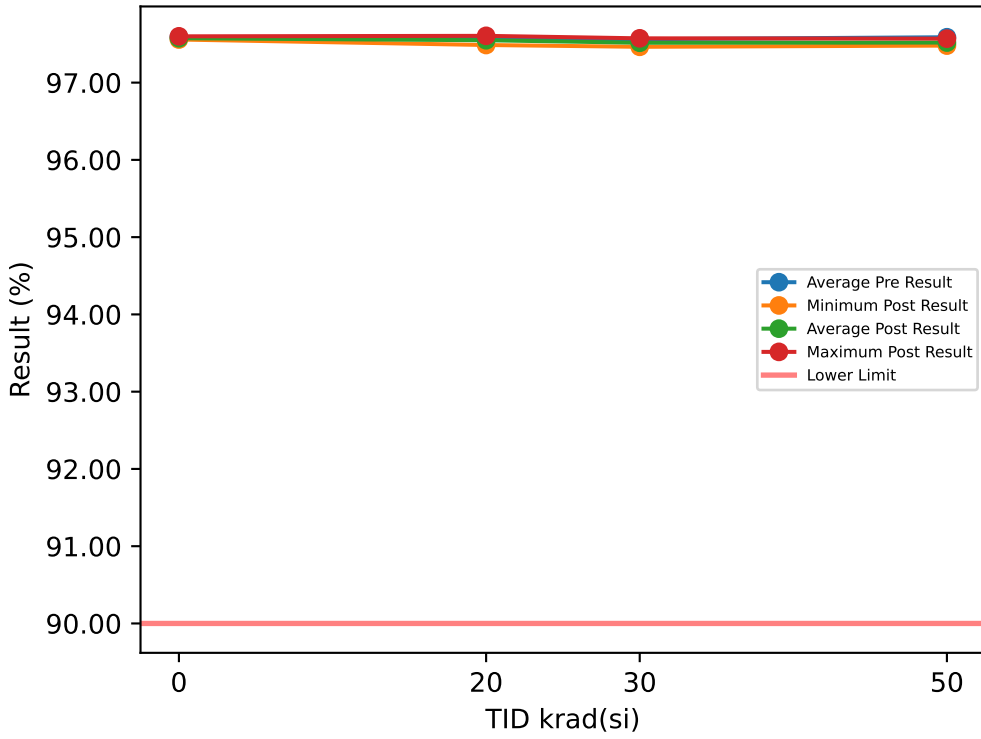
# Device Test: 15.37 VOH_PWRGD_2MA(_EVEL|VOH/PWRGD/1.6/3/0/0/2/@VOH_PWRGD_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.515 | 97.501 | -0.0146 |
| 2 | 20 | Bias | 97.515 | 97.497 | -0.0181 |
| 3 | 20 | Bias | 97.508 | 97.487 | -0.0211 |
| 4 | 20 | Bias | 97.622 | 97.606 | -0.0162 |
| 5 | 20 | Bias | 97.577 | 97.562 | -0.0158 |
| 6 | 20 | Unbiased | 97.571 | 97.562 | -0.0096 |
| 7 | 20 | Unbiased | 97.564 | 97.549 | -0.015 |
| 8 | 20 | Unbiased | 97.618 | 97.604 | -0.0138 |
| 9 | 20 | Unbiased | 97.566 | 97.546 | -0.0195 |
| 10 | 20 | Unbiased | 97.59 | 97.571 | -0.0187 |
| 11 | 30 | Bias | 97.506 | 97.517 | 0.0111 |
| 12 | 30 | Bias | 97.534 | 97.463 | -0.0704 |
| 13 | 30 | Bias | 97.558 | 97.49 | -0.0689 |
| 14 | 30 | Bias | 97.587 | 97.514 | -0.0734 |
| 15 | 30 | Bias | 97.521 | 97.543 | 0.0217 |
| 16 | 30 | Unbiased | 97.613 | 97.484 | -0.1289 |
| 17 | 30 | Unbiased | 97.594 | 97.573 | -0.0208 |
| 18 | 30 | Unbiased | 97.581 | 97.551 | -0.0298 |
| 19 | 30 | Unbiased | 97.526 | 97.54 | 0.0145 |
| 20 | 30 | Unbiased | 97.599 | 97.482 | -0.1169 |
| 21 | 50 | Bias | 97.588 | 97.541 | -0.0471 |
| 22 | 50 | Bias | 97.578 | 97.528 | -0.0501 |
| 23 | 50 | Bias | 97.589 | 97.516 | -0.0729 |
| 24 | 50 | Bias | 97.604 | 97.524 | -0.0794 |
| 25 | 50 | Bias | 97.629 | 97.569 | -0.0598 |
| 26 | 50 | Unbiased | 97.569 | 97.49 | -0.0792 |
| 27 | 50 | Unbiased | 97.618 | 97.546 | -0.0718 |
| 28 | 50 | Unbiased | 97.559 | 97.479 | -0.0801 |
| 29 | 50 | Unbiased | 97.558 | 97.484 | -0.0742 |
| 30 | 50 | Unbiased | 97.582 | 97.508 | -0.0742 |
| 31 | 0 | Correlation | 97.553 | 97.558 | 0.0053 |
| 32 | 0 | Correlation | 97.584 | 97.584 | 0.0002 |
| 33 | 0 | Correlation | 97.601 | 97.599 | -0.0013 |
| 34 | 0 | Correlation | 97.618 | 97.558 | -0.0601 |

## Test Statistics (%)
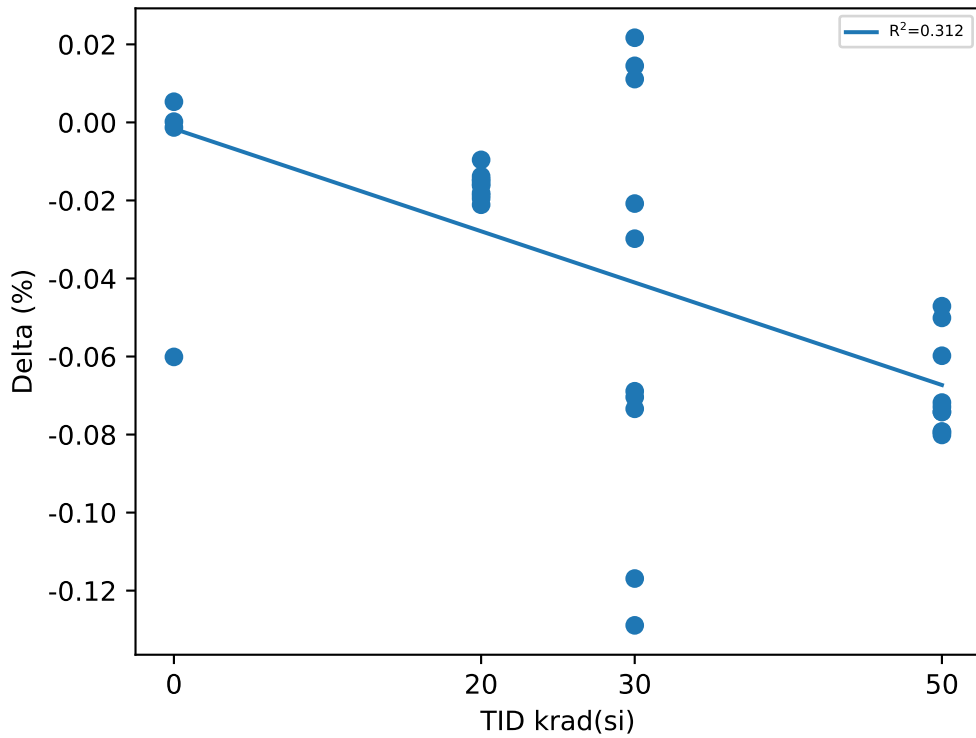
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.553 | 97.589 | 97.618 | 0.02776 | 97.558 | 97.575 | 97.599 | 0.020579 | -0.0601 | -0.013975 | 0.0053 | 0.030879 |
| 20 | 97.508 | 97.565 | 97.622 | 0.040956 | 97.487 | 97.548 | 97.606 | 0.04217 | -0.0211 | -0.01624 | -0.0096 | 0.0033036 |
| 30 | 97.506 | 97.562 | 97.613 | 0.037732 | 97.463 | 97.516 | 97.573 | 0.035718 | -0.1289 | -0.04618 | 0.0217 | 0.053925 |
| 50 | 97.558 | 97.587 | 97.629 | 0.023621 | 97.479 | 97.519 | 97.569 | 0.029131 | -0.0801 | -0.06888 | -0.0471 | 0.012174 |

# Device Test: 15.38  VOH_EN_2MA(_EVEL|VOH/EN1/1.6/14/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.564 | 97.553 | -0.0117 |
| 2 | 20 | Bias | 97.573 | 97.557 | -0.0156 |
| 3 | 20 | Bias | 97.566 | 97.548 | -0.0181 |
| 4 | 20 | Bias | 97.667 | 97.651 | -0.0156 |
| 5 | 20 | Bias | 97.621 | 97.606 | -0.0147 |
| 6 | 20 | Unbiased | 97.616 | 97.607 | -0.0092 |
| 7 | 20 | Unbiased | 97.618 | 97.599 | -0.0184 |
| 8 | 20 | Unbiased | 97.68 | 97.665 | -0.0152 |
| 9 | 20 | Unbiased | 97.618 | 97.593 | -0.0242 |
| 10 | 20 | Unbiased | 97.634 | 97.614 | -0.0204 |
| 11 | 30 | Bias | 97.558 | 97.552 | -0.0062 |
| 12 | 30 | Bias | 97.593 | 97.513 | -0.0793 |
| 13 | 30 | Bias | 97.582 | 97.545 | -0.0366 |
| 14 | 30 | Bias | 97.622 | 97.535 | -0.0876 |
| 15 | 30 | Bias | 97.552 | 97.576 | 0.0248 |
| 16 | 30 | Unbiased | 97.663 | 97.511 | -0.1522 |
| 17 | 30 | Unbiased | 97.626 | 97.624 | -0.0029 |
| 18 | 30 | Unbiased | 97.623 | 97.583 | -0.0392 |
| 19 | 30 | Unbiased | 97.568 | 97.579 | 0.0107 |
| 20 | 30 | Unbiased | 97.634 | 97.521 | -0.1132 |
| 21 | 50 | Bias | 97.627 | 97.577 | -0.0504 |
| 22 | 50 | Bias | 97.627 | 97.567 | -0.0601 |
| 23 | 50 | Bias | 97.626 | 97.569 | -0.0565 |
| 24 | 50 | Bias | 97.637 | 97.569 | -0.0683 |
| 25 | 50 | Bias | 97.664 | 97.61 | -0.0535 |
| 26 | 50 | Unbiased | 97.606 | 97.539 | -0.067 |
| 27 | 50 | Unbiased | 97.646 | 97.581 | -0.0644 |
| 28 | 50 | Unbiased | 97.587 | 97.517 | -0.0699 |
| 29 | 50 | Unbiased | 97.612 | 97.542 | -0.0699 |
| 30 | 50 | Unbiased | 97.622 | 97.559 | -0.0625 |
| 31 | 0 | Correlation | 97.591 | 97.587 | -0.0033 |
| 32 | 0 | Correlation | 97.63 | 97.625 | -0.0049 |
| 33 | 0 | Correlation | 97.631 | 97.63 | -0.0006 |
| 34 | 0 | Correlation | 97.663 | 97.591 | -0.0718 |

## Test Statistics (%)
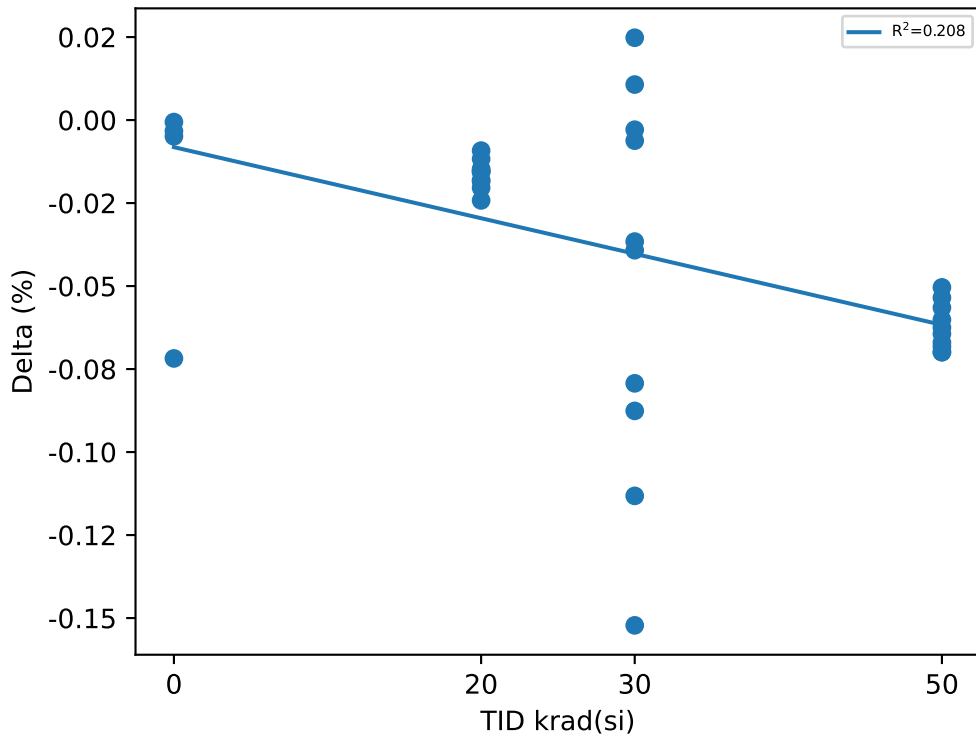
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.591 | 97.629 | 97.663 | 0.02957 | 97.587 | 97.608 | 97.63 | 0.022581 | -0.0718 | -0.02015 | -0.0006 | 0.034479 |
| 20 | 97.564 | 97.616 | 97.68 | 0.039615 | 97.548 | 97.599 | 97.665 | 0.039414 | -0.0242 | -0.01631 | -0.0092 | 0.0042582 |
| 30 | 97.552 | 97.602 | 97.663 | 0.037059 | 97.511 | 97.554 | 97.624 | 0.036229 | -0.1522 | -0.04817 | 0.0248 | 0.058109 |
| 50 | 97.587 | 97.625 | 97.664 | 0.021286 | 97.517 | 97.563 | 97.61 | 0.025795 | -0.0699 | -0.06225 | -0.0504 | 0.0069567 |

# Device Test: 15.39  VOH_EN_2MA(_EVEL|VOH/EN2/1.6/14/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.207$

## Test Results (Lower Limit = 90.0 (%))

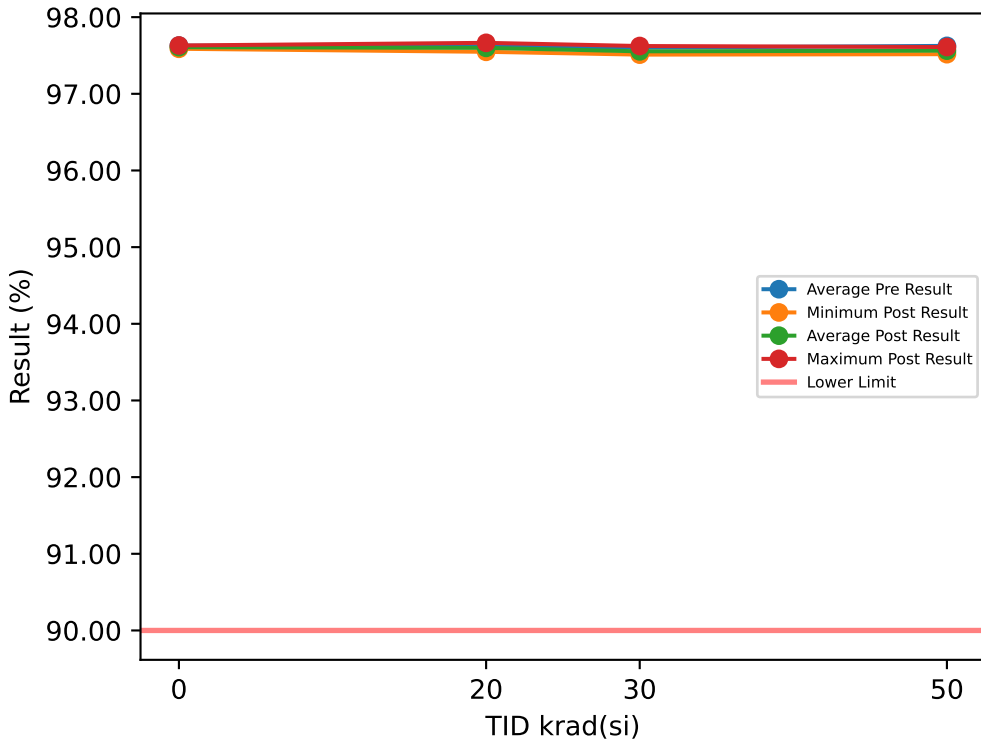| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.611 | 97.6 | -0.0109 |
| 2 | 20 | Bias | 97.62 | 97.604 | -0.0152 |
| 3 | 20 | Bias | 97.597 | 97.575 | -0.0219 |
| 4 | 20 | Bias | 97.709 | 97.695 | -0.0135 |
| 5 | 20 | Bias | 97.65 | 97.637 | -0.0127 |
| 6 | 20 | Unbiased | 97.648 | 97.637 | -0.0106 |
| 7 | 20 | Unbiased | 97.654 | 97.638 | -0.0166 |
| 8 | 20 | Unbiased | 97.706 | 97.692 | -0.0148 |
| 9 | 20 | Unbiased | 97.652 | 97.636 | -0.0162 |
| 10 | 20 | Unbiased | 97.672 | 97.655 | -0.017 |
| 11 | 30 | Bias | 97.59 | 97.588 | -0.0016 |
| 12 | 30 | Bias | 97.621 | 97.552 | -0.0688 |
| 13 | 30 | Bias | 97.622 | 97.586 | -0.0359 |
| 14 | 30 | Bias | 97.665 | 97.585 | -0.0797 |
| 15 | 30 | Bias | 97.591 | 97.629 | 0.038 |
| 16 | 30 | Unbiased | 97.696 | 97.562 | -0.1342 |
| 17 | 30 | Unbiased | 97.676 | 97.661 | -0.0155 |
| 18 | 30 | Unbiased | 97.656 | 97.637 | -0.0192 |
| 19 | 30 | Unbiased | 97.612 | 97.621 | 0.0085 |
| 20 | 30 | Unbiased | 97.672 | 97.573 | -0.0988 |
| 21 | 50 | Bias | 97.667 | 97.623 | -0.044 |
| 22 | 50 | Bias | 97.656 | 97.614 | -0.0423 |
| 23 | 50 | Bias | 97.667 | 97.606 | -0.0614 |
| 24 | 50 | Bias | 97.677 | 97.616 | -0.0608 |
| 25 | 50 | Bias | 97.711 | 97.653 | -0.0574 |
| 26 | 50 | Unbiased | 97.641 | 97.576 | -0.0642 |
| 27 | 50 | Unbiased | 97.686 | 97.625 | -0.0605 |
| 28 | 50 | Unbiased | 97.638 | 97.568 | -0.0698 |
| 29 | 50 | Unbiased | 97.636 | 97.568 | -0.0677 |
| 30 | 50 | Unbiased | 97.662 | 97.601 | -0.0607 |
| 31 | 0 | Correlation | 97.634 | 97.631 | -0.0031 |
| 32 | 0 | Correlation | 97.664 | 97.666 | 0.0021 |
| 33 | 0 | Correlation | 97.657 | 97.652 | -0.0053 |
| 34 | 0 | Correlation | 97.698 | 97.623 | -0.0746 |

## Test Statistics (%)
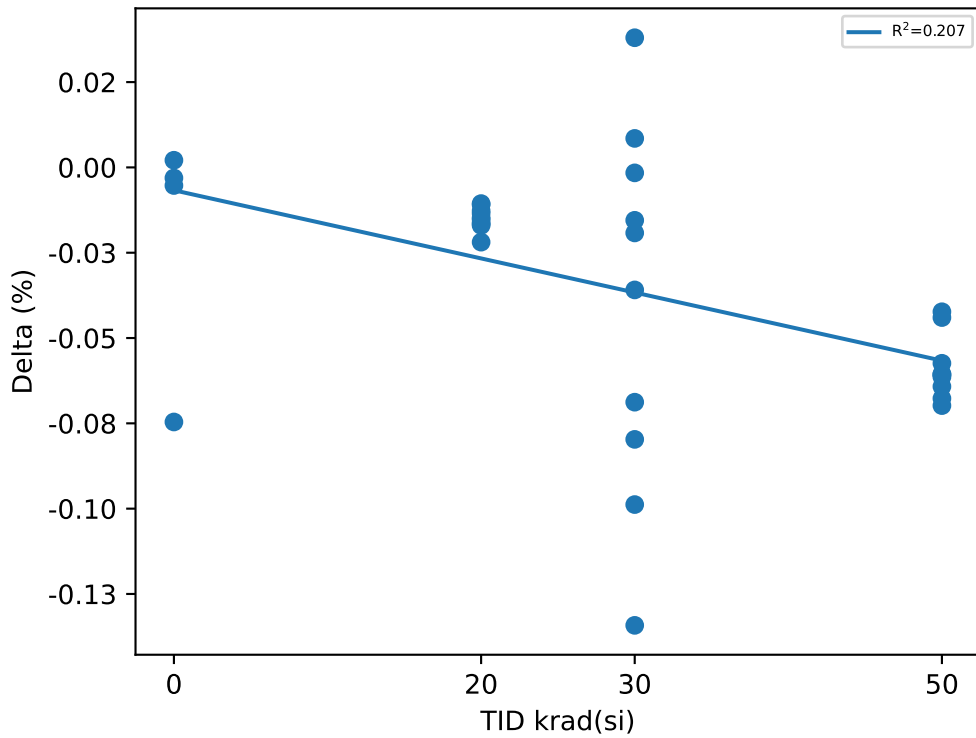
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.634 | 97.663 | 97.698 | 0.026291 | 97.623 | 97.643 | 97.666 | 0.01939 | -0.0746 | -0.020225 | 0.0021 | 0.036383 |
| 20 | 97.597 | 97.652 | 97.709 | 0.037141 | 97.575 | 97.637 | 97.695 | 0.038027 | -0.0219 | -0.01494 | -0.0106 | 0.0033227 |
| 30 | 97.59 | 97.64 | 97.696 | 0.0377 | 97.552 | 97.599 | 97.661 | 0.03554 | -0.1342 | -0.04072 | 0.038 | 0.053429 |
| 50 | 97.636 | 97.664 | 97.711 | 0.02348 | 97.568 | 97.605 | 97.653 | 0.027649 | -0.0698 | -0.05888 | -0.0423 | 0.0090665 |

# Device Test: 15.40  VOH_EN_2MA(_EVEL|VOH/EN3/1.6/14/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

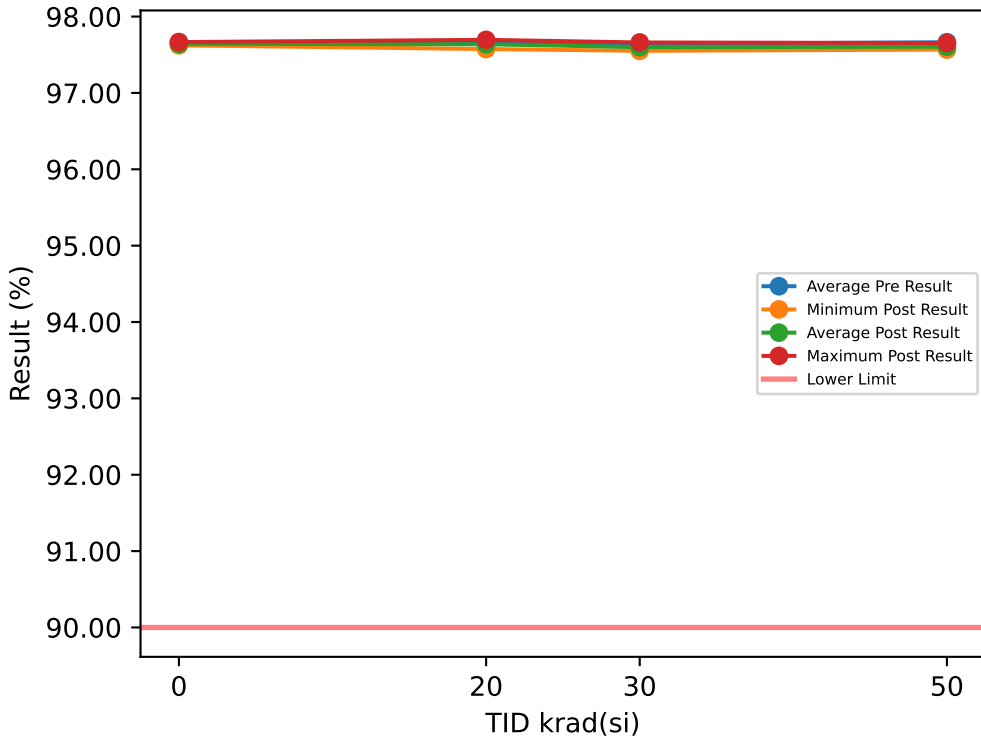| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.652 | 97.638 | -0.0136 |
| 2 | 20 | Bias | 97.656 | 97.638 | -0.0187 |
| 3 | 20 | Bias | 97.635 | 97.614 | -0.021 |
| 4 | 20 | Bias | 97.739 | 97.725 | -0.0141 |
| 5 | 20 | Bias | 97.698 | 97.681 | -0.017 |
| 6 | 20 | Unbiased | 97.694 | 97.683 | -0.0102 |
| 7 | 20 | Unbiased | 97.699 | 97.682 | -0.0174 |
| 8 | 20 | Unbiased | 97.749 | 97.735 | -0.014 |
| 9 | 20 | Unbiased | 97.692 | 97.682 | -0.0107 |
| 10 | 20 | Unbiased | 97.71 | 97.693 | -0.0174 |
| 11 | 30 | Bias | 97.638 | 97.636 | -0.0018 |
| 12 | 30 | Bias | 97.663 | 97.597 | -0.0663 |
| 13 | 30 | Bias | 97.669 | 97.626 | -0.0435 |
| 14 | 30 | Bias | 97.71 | 97.626 | -0.0837 |
| 15 | 30 | Bias | 97.643 | 97.666 | 0.0229 |
| 16 | 30 | Unbiased | 97.744 | 97.608 | -0.1366 |
| 17 | 30 | Unbiased | 97.72 | 97.703 | -0.0172 |
| 18 | 30 | Unbiased | 97.695 | 97.678 | -0.0171 |
| 19 | 30 | Unbiased | 97.653 | 97.658 | 0.0041 |
| 20 | 30 | Unbiased | 97.717 | 97.613 | -0.1034 |
| 21 | 50 | Bias | 97.709 | 97.663 | -0.0453 |
| 22 | 50 | Bias | 97.699 | 97.654 | -0.0452 |
| 23 | 50 | Bias | 97.707 | 97.644 | -0.0633 |
| 24 | 50 | Bias | 97.715 | 97.654 | -0.0607 |
| 25 | 50 | Bias | 97.752 | 97.698 | -0.0544 |
| 26 | 50 | Unbiased | 97.686 | 97.621 | -0.0654 |
| 27 | 50 | Unbiased | 97.727 | 97.665 | -0.0619 |
| 28 | 50 | Unbiased | 97.677 | 97.609 | -0.0685 |
| 29 | 50 | Unbiased | 97.684 | 97.619 | -0.0646 |
| 30 | 50 | Unbiased | 97.703 | 97.642 | -0.0606 |
| 31 | 0 | Correlation | 97.67 | 97.672 | 0.0015 |
| 32 | 0 | Correlation | 97.711 | 97.71 | -0.001 |
| 33 | 0 | Correlation | 97.699 | 97.699 | -0.0003 |
| 34 | 0 | Correlation | 97.74 | 97.673 | -0.0671 |

## Test Statistics (%)
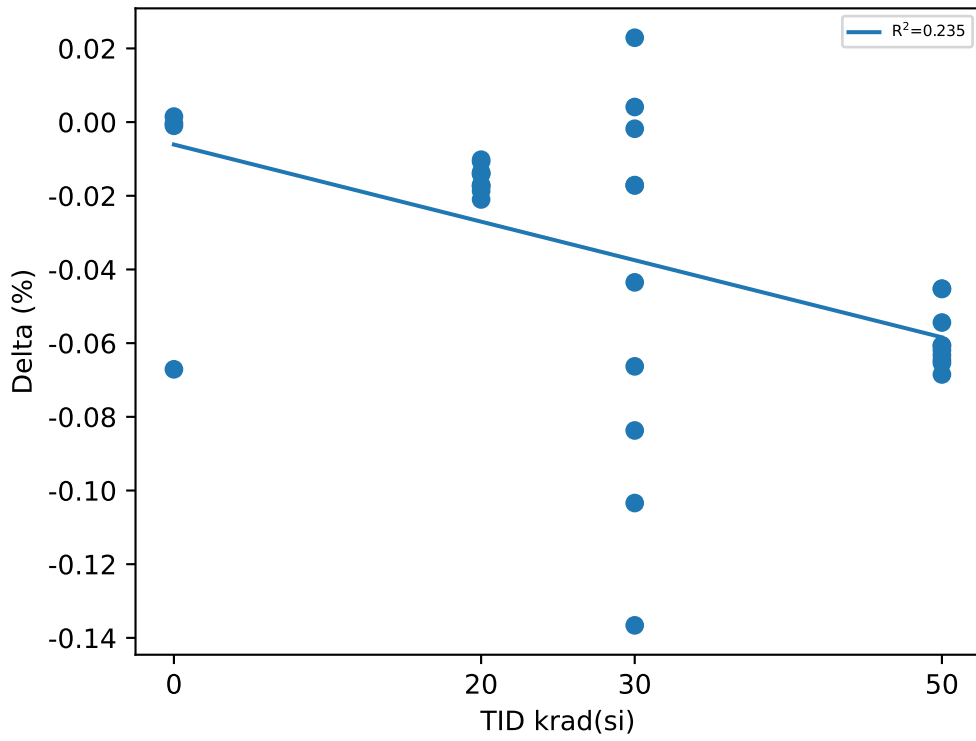
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.67 | 97.705 | 97.74 | 0.028954 | 97.672 | 97.688 | 97.71 | 0.019021 | -0.0671 | -0.016725 | 0.0015 | 0.0336 |
| 20 | 97.635 | 97.692 | 97.749 | 0.036545 | 97.614 | 97.677 | 97.735 | 0.038058 | -0.021 | -0.01541 | -0.0102 | 0.0034774 |
| 30 | 97.638 | 97.685 | 97.744 | 0.036729 | 97.597 | 97.641 | 97.703 | 0.034068 | -0.1366 | -0.04426 | 0.0229 | 0.051842 |
| 50 | 97.677 | 97.706 | 97.752 | 0.022202 | 97.609 | 97.647 | 97.698 | 0.026312 | -0.0685 | -0.05899 | -0.0452 | 0.0081255 |

# Device Test: 15.41  VOH_EN_2MA(_EVEL|VOH/EN4/1.6/14/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

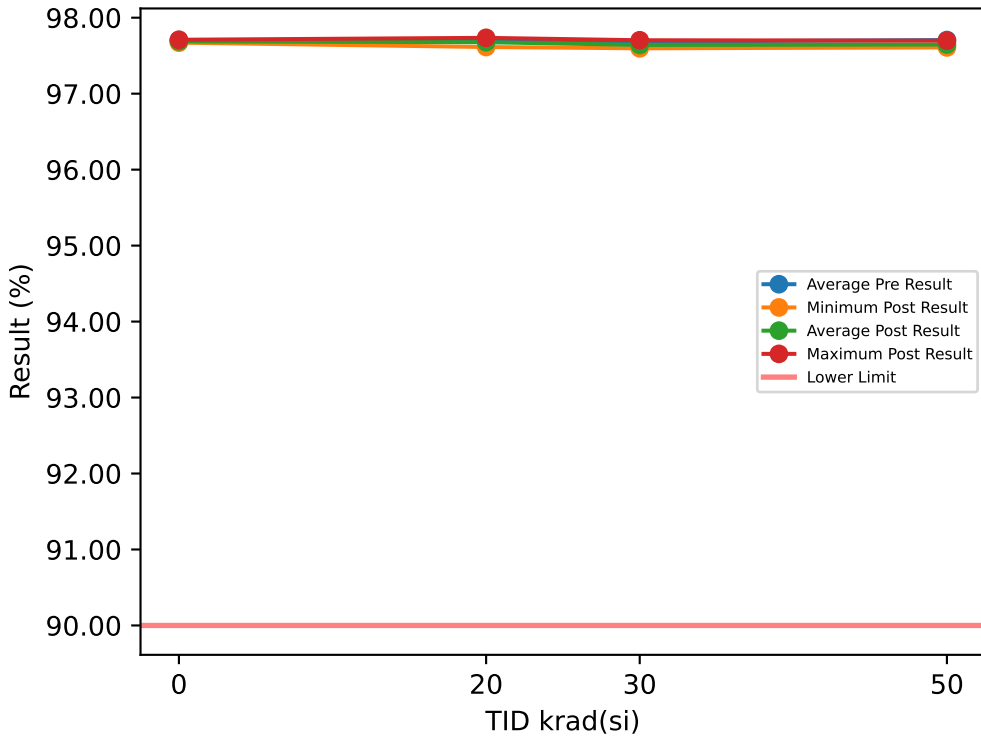| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.723 | 97.712 | -0.0113 |
| 2 | 20 | Bias | 97.725 | 97.709 | -0.0162 |
| 3 | 20 | Bias | 97.706 | 97.688 | -0.0179 |
| 4 | 20 | Bias | 97.817 | 97.801 | -0.0164 |
| 5 | 20 | Bias | 97.773 | 97.757 | -0.0168 |
| 6 | 20 | Unbiased | 97.768 | 97.759 | -0.0094 |
| 7 | 20 | Unbiased | 97.765 | 97.747 | -0.0178 |
| 8 | 20 | Unbiased | 97.82 | 97.807 | -0.0129 |
| 9 | 20 | Unbiased | 97.761 | 97.747 | -0.0141 |
| 10 | 20 | Unbiased | 97.783 | 97.766 | -0.0174 |
| 11 | 30 | Bias | 97.711 | 97.698 | -0.0124 |
| 12 | 30 | Bias | 97.735 | 97.659 | -0.0761 |
| 13 | 30 | Bias | 97.739 | 97.69 | -0.0493 |
| 14 | 30 | Bias | 97.779 | 97.691 | -0.088 |
| 15 | 30 | Bias | 97.713 | 97.731 | 0.0186 |
| 16 | 30 | Unbiased | 97.811 | 97.669 | -0.1414 |
| 17 | 30 | Unbiased | 97.792 | 97.764 | -0.0279 |
| 18 | 30 | Unbiased | 97.767 | 97.744 | -0.0232 |
| 19 | 30 | Unbiased | 97.725 | 97.721 | -0.0046 |
| 20 | 30 | Unbiased | 97.792 | 97.68 | -0.1122 |
| 21 | 50 | Bias | 97.779 | 97.734 | -0.0444 |
| 22 | 50 | Bias | 97.772 | 97.717 | -0.0542 |
| 23 | 50 | Bias | 97.776 | 97.707 | -0.0689 |
| 24 | 50 | Bias | 97.795 | 97.717 | -0.078 |
| 25 | 50 | Bias | 97.827 | 97.773 | -0.0544 |
| 26 | 50 | Unbiased | 97.758 | 97.692 | -0.0653 |
| 27 | 50 | Unbiased | 97.793 | 97.731 | -0.0613 |
| 28 | 50 | Unbiased | 97.749 | 97.682 | -0.0666 |
| 29 | 50 | Unbiased | 97.756 | 97.693 | -0.0631 |
| 30 | 50 | Unbiased | 97.776 | 97.715 | -0.0613 |
| 31 | 0 | Correlation | 97.746 | 97.747 | 0.0008 |
| 32 | 0 | Correlation | 97.775 | 97.775 | 0.0004 |
| 33 | 0 | Correlation | 97.773 | 97.77 | -0.0026 |
| 34 | 0 | Correlation | 97.813 | 97.743 | -0.0701 |

## Test Statistics (%)
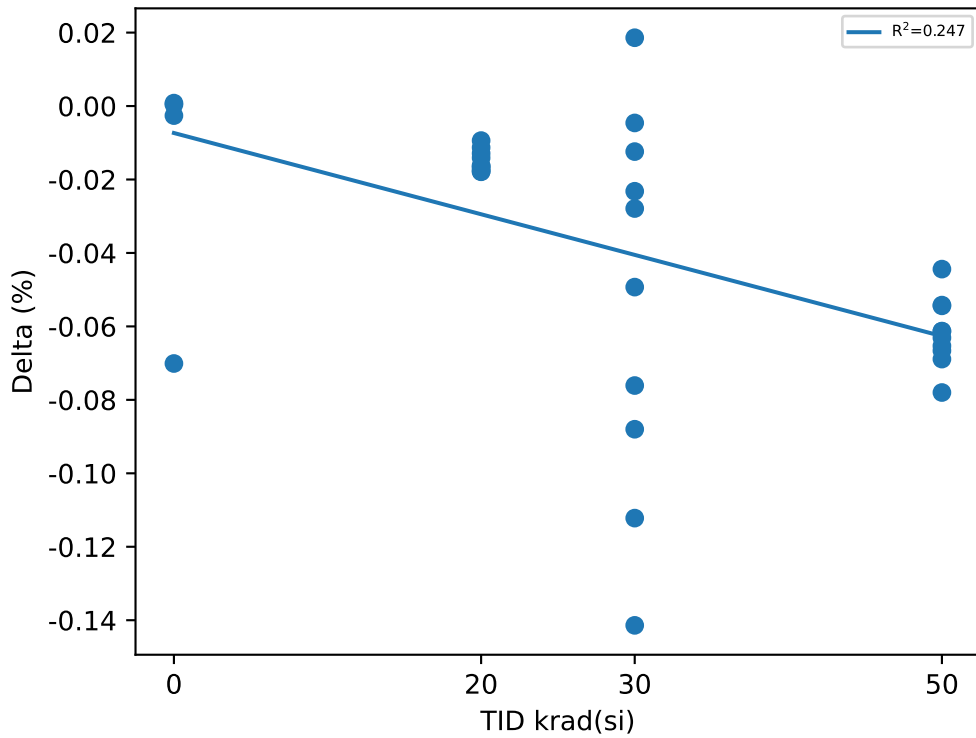
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.746 | 97.777 | 97.813 | 0.027416 | 97.743 | 97.759 | 97.775 | 0.016156 | -0.0701 | -0.017875 | 0.0008 | 0.03485 |
| 20 | 97.706 | 97.764 | 97.82 | 0.038058 | 97.688 | 97.749 | 97.807 | 0.038358 | -0.0179 | -0.01502 | -0.0094 | 0.0029612 |
| 30 | 97.711 | 97.757 | 97.811 | 0.03627 | 97.659 | 97.705 | 97.764 | 0.033974 | -0.1414 | -0.05165 | 0.0186 | 0.051326 |
| 50 | 97.749 | 97.778 | 97.827 | 0.022935 | 97.682 | 97.716 | 97.773 | 0.026053 | -0.078 | -0.06175 | -0.0444 | 0.0092231 |
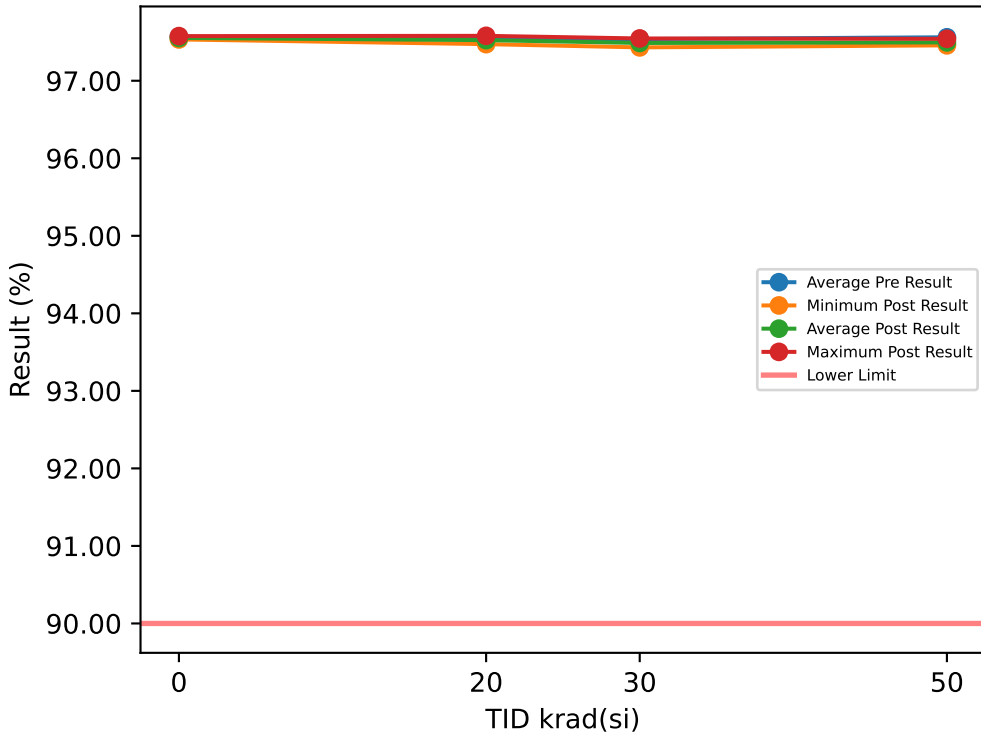
# Device Test: 15.42  VOH_SEQ_DONE_2MA(_EVEL|VOH/SEQ_DONE/1.6/14/0/0/2/@VOH_SEQ_DONE_2MA )

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

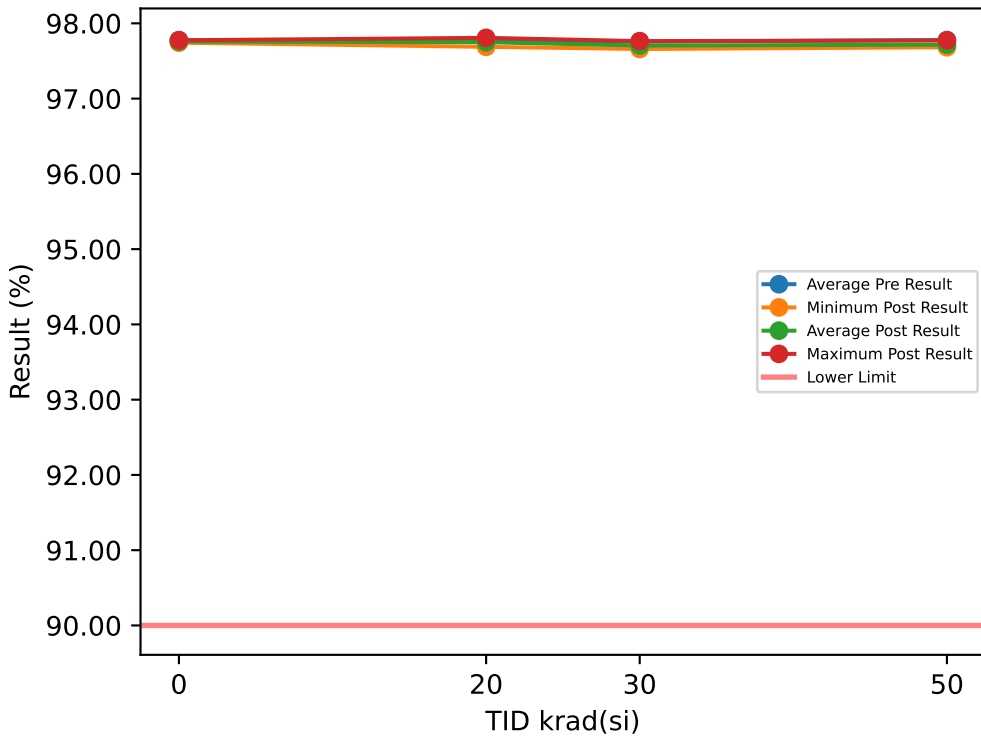| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.494 | 97.477 | -0.0164 |
| 2 | 20 | Bias | 97.492 | 97.473 | -0.0188 |
| 3 | 20 | Bias | 97.492 | 97.472 | -0.0201 |
| 4 | 20 | Bias | 97.599 | 97.579 | -0.0197 |
| 5 | 20 | Bias | 97.555 | 97.54 | -0.0152 |
| 6 | 20 | Unbiased | 97.547 | 97.534 | -0.0133 |
| 7 | 20 | Unbiased | 97.538 | 97.525 | -0.0136 |
| 8 | 20 | Unbiased | 97.59 | 97.572 | -0.0174 |
| 9 | 20 | Unbiased | 97.539 | 97.521 | -0.0187 |
| 10 | 20 | Unbiased | 97.564 | 97.544 | -0.0203 |
| 11 | 30 | Bias | 97.478 | 97.488 | 0.0094 |
| 12 | 30 | Bias | 97.513 | 97.43 | -0.0831 |
| 13 | 30 | Bias | 97.526 | 97.466 | -0.0605 |
| 14 | 30 | Bias | 97.564 | 97.481 | -0.0826 |
| 15 | 30 | Bias | 97.5 | 97.516 | 0.0158 |
| 16 | 30 | Unbiased | 97.585 | 97.454 | -0.1308 |
| 17 | 30 | Unbiased | 97.567 | 97.546 | -0.0213 |
| 18 | 30 | Unbiased | 97.555 | 97.523 | -0.0318 |
| 19 | 30 | Unbiased | 97.505 | 97.51 | 0.0051 |
| 20 | 30 | Unbiased | 97.582 | 97.457 | -0.1242 |
| 21 | 50 | Bias | 97.569 | 97.524 | -0.0449 |
| 22 | 50 | Bias | 97.559 | 97.509 | -0.0499 |
| 23 | 50 | Bias | 97.566 | 97.498 | -0.0682 |
| 24 | 50 | Bias | 97.575 | 97.499 | -0.0757 |
| 25 | 50 | Bias | 97.599 | 97.541 | -0.0579 |
| 26 | 50 | Unbiased | 97.54 | 97.463 | -0.0777 |
| 27 | 50 | Unbiased | 97.583 | 97.515 | -0.0673 |
| 28 | 50 | Unbiased | 97.535 | 97.461 | -0.0738 |
| 29 | 50 | Unbiased | 97.529 | 97.457 | -0.0725 |
| 30 | 50 | Unbiased | 97.552 | 97.483 | -0.0695 |
| 31 | 0 | Correlation | 97.529 | 97.533 | 0.0034 |
| 32 | 0 | Correlation | 97.566 | 97.566 | -0.0002 |
| 33 | 0 | Correlation | 97.577 | 97.576 | -0.0016 |
| 34 | 0 | Correlation | 97.597 | 97.534 | -0.0631 |

## Test Statistics (%)
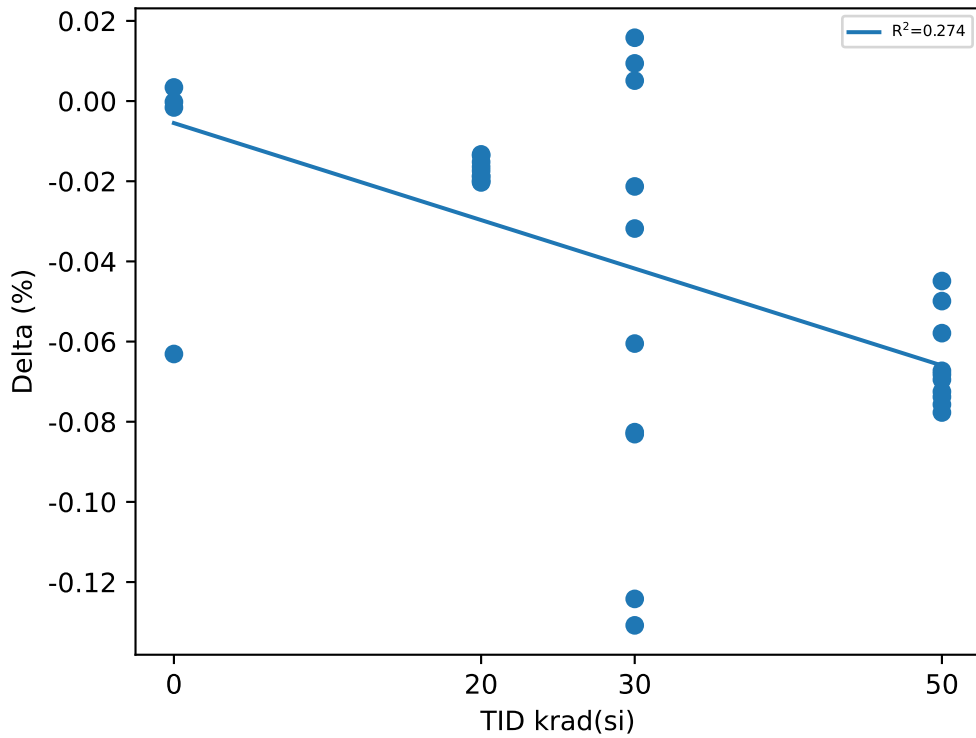
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.529 | 97.568 | 97.597 | 0.028542 | 97.533 | 97.552 | 97.576 | 0.021863 | -0.0631 | -0.015375 | 0.0034 | 0.031886 |
| 20 | 97.492 | 97.541 | 97.599 | 0.038689 | 97.472 | 97.524 | 97.579 | 0.038782 | -0.0203 | -0.01735 | -0.0133 | 0.0026184 |
| 30 | 97.478 | 97.538 | 97.585 | 0.03759 | 97.43 | 97.487 | 97.546 | 0.036134 | -0.1308 | -0.0504 | 0.0158 | 0.054109 |
| 50 | 97.529 | 97.561 | 97.599 | 0.02199 | 97.457 | 97.495 | 97.541 | 0.028577 | -0.0777 | -0.06574 | -0.0449 | 0.011166 |

# Device Test: 15.43  VOH_PWRGD_2MA(_EVEL|VOH/PWRGD/1.6/14/0/0/2/@VOH_PWRGD_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.514 | 97.499 | -0.0151 |
| 2 | 20 | Bias | 97.519 | 97.498 | -0.0207 |
| 3 | 20 | Bias | 97.507 | 97.489 | -0.0187 |
| 4 | 20 | Bias | 97.623 | 97.607 | -0.016 |
| 5 | 20 | Bias | 97.576 | 97.563 | -0.0134 |
| 6 | 20 | Unbiased | 97.569 | 97.558 | -0.0109 |
| 7 | 20 | Unbiased | 97.567 | 97.548 | -0.0192 |
| 8 | 20 | Unbiased | 97.616 | 97.599 | -0.0166 |
| 9 | 20 | Unbiased | 97.563 | 97.545 | -0.018 |
| 10 | 20 | Unbiased | 97.588 | 97.571 | -0.0173 |
| 11 | 30 | Bias | 97.507 | 97.514 | 0.0077 |
| 12 | 30 | Bias | 97.531 | 97.462 | -0.0692 |
| 13 | 30 | Bias | 97.558 | 97.49 | -0.0689 |
| 14 | 30 | Bias | 97.586 | 97.514 | -0.0718 |
| 15 | 30 | Bias | 97.523 | 97.543 | 0.0209 |
| 16 | 30 | Unbiased | 97.614 | 97.484 | -0.1307 |
| 17 | 30 | Unbiased | 97.593 | 97.57 | -0.0226 |
| 18 | 30 | Unbiased | 97.58 | 97.548 | -0.0319 |
| 19 | 30 | Unbiased | 97.526 | 97.539 | 0.0127 |
| 20 | 30 | Unbiased | 97.597 | 97.481 | -0.1163 |
| 21 | 50 | Bias | 97.587 | 97.538 | -0.0484 |
| 22 | 50 | Bias | 97.578 | 97.525 | -0.0526 |
| 23 | 50 | Bias | 97.585 | 97.513 | -0.072 |
| 24 | 50 | Bias | 97.603 | 97.524 | -0.0788 |
| 25 | 50 | Bias | 97.624 | 97.572 | -0.0526 |
| 26 | 50 | Unbiased | 97.567 | 97.489 | -0.0779 |
| 27 | 50 | Unbiased | 97.618 | 97.547 | -0.0716 |
| 28 | 50 | Unbiased | 97.558 | 97.479 | -0.0783 |
| 29 | 50 | Unbiased | 97.557 | 97.484 | -0.073 |
| 30 | 50 | Unbiased | 97.582 | 97.507 | -0.0748 |
| 31 | 0 | Correlation | 97.553 | 97.555 | 0.002 |
| 32 | 0 | Correlation | 97.586 | 97.582 | -0.0035 |
| 33 | 0 | Correlation | 97.601 | 97.598 | -0.0029 |
| 34 | 0 | Correlation | 97.615 | 97.557 | -0.0574 |

## Test Statistics (%)
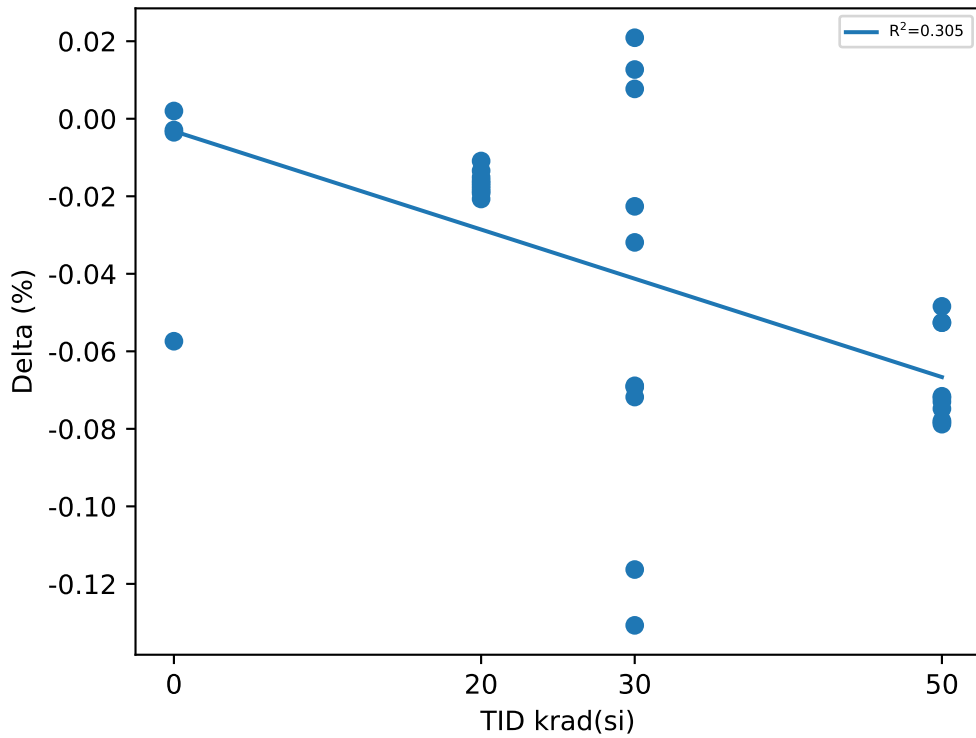
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 97.553 | 97.589 | 97.615 | 0.026215 | 97.555 | 97.573 | 97.598 | 0.020486 | -0.0574 | -0.01545 | 0.002 | 0.028075 |
| 20 | 97.507 | 97.564 | 97.623 | 0.040282 | 97.489 | 97.548 | 97.607 | 0.041219 | -0.0207 | -0.01659 | -0.0109 | 0.0029015 |
| 30 | 97.507 | 97.562 | 97.614 | 0.03754 | 97.462 | 97.515 | 97.57 | 0.035097 | -0.1307 | -0.04701 | 0.0209 | 0.05311 |
| 50 | 97.557 | 97.586 | 97.624 | 0.023458 | 97.479 | 97.518 | 97.572 | 0.029676 | -0.0788 | -0.068 | -0.0484 | 0.011923 |

# Device Test: 15.44  VOH_EN_2MA(_EVEL|VOH/EN1/7/3/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

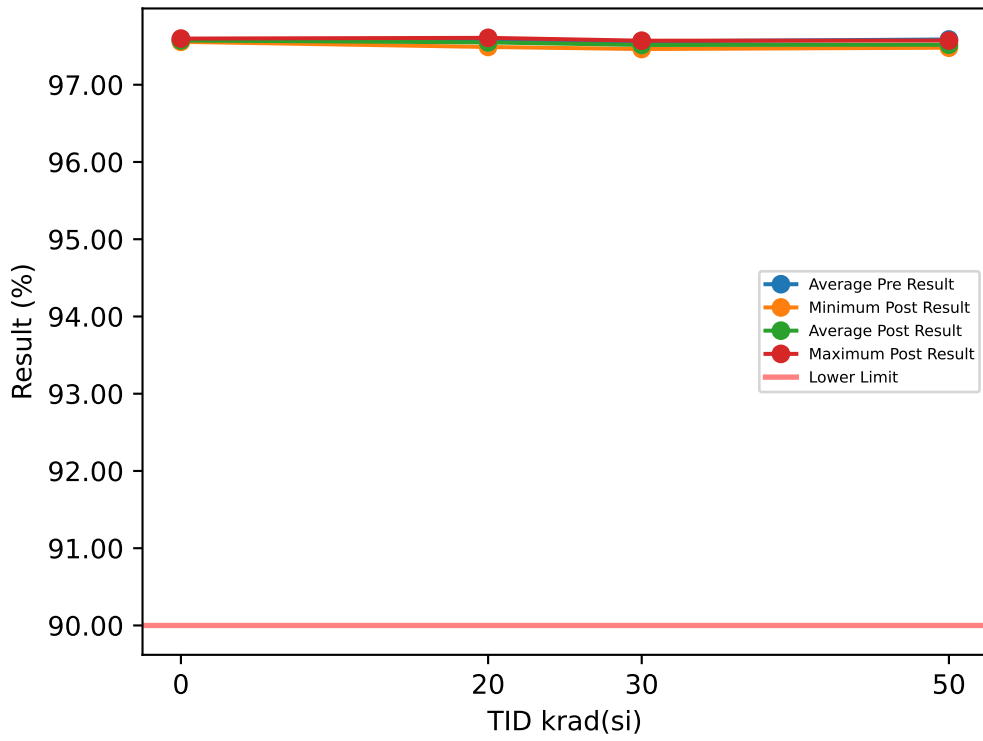| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.78 | 99.781 | 0.0013 |
| 2 | 20 | Bias | 99.78 | 99.78 | 0.0001 |
| 3 | 20 | Bias | 99.78 | 99.779 | -0.0003 |
| 4 | 20 | Bias | 99.784 | 99.785 | 0.0011 |
| 5 | 20 | Bias | 99.782 | 99.783 | 0.0003 |
| 6 | 20 | Unbiased | 99.782 | 99.784 | 0.002 |
| 7 | 20 | Unbiased | 99.782 | 99.782 | 0.0007 |
| 8 | 20 | Unbiased | 99.783 | 99.784 | 0.0011 |
| 9 | 20 | Unbiased | 99.782 | 99.783 | 0.0003 |
| 10 | 20 | Unbiased | 99.784 | 99.784 | -0.0003 |
| 11 | 30 | Bias | 99.778 | 99.788 | 0.0101 |
| 12 | 30 | Bias | 99.779 | 99.786 | 0.0061 |
| 13 | 30 | Bias | 99.779 | 99.787 | 0.008 |
| 14 | 30 | Bias | 99.781 | 99.787 | 0.0055 |
| 15 | 30 | Bias | 99.778 | 99.79 | 0.0119 |
| 16 | 30 | Unbiased | 99.784 | 99.786 | 0.0027 |
| 17 | 30 | Unbiased | 99.783 | 99.791 | 0.0086 |
| 18 | 30 | Unbiased | 99.783 | 99.789 | 0.0063 |
| 19 | 30 | Unbiased | 99.779 | 99.79 | 0.0115 |
| 20 | 30 | Unbiased | 99.782 | 99.786 | 0.0045 |
| 21 | 50 | Bias | 99.782 | 99.791 | 0.0081 |
| 22 | 50 | Bias | 99.781 | 99.79 | 0.0084 |
| 23 | 50 | Bias | 99.782 | 99.789 | 0.0068 |
| 24 | 50 | Bias | 99.782 | 99.79 | 0.0083 |
| 25 | 50 | Bias | 99.784 | 99.783 | -0.0011 |
| 26 | 50 | Unbiased | 99.783 | 99.781 | -0.0016 |
| 27 | 50 | Unbiased | 99.784 | 99.782 | -0.0017 |
| 28 | 50 | Unbiased | 99.78 | 99.78 | -0.0002 |
| 29 | 50 | Unbiased | 99.782 | 99.78 | -0.0023 |
| 30 | 50 | Unbiased | 99.782 | 99.782 | -0.0001 |
| 31 | 0 | Correlation | 99.781 | 99.781 | -0.0008 |
| 32 | 0 | Correlation | 99.783 | 99.782 | -0.0016 |
| 33 | 0 | Correlation | 99.784 | 99.782 | -0.0011 |
| 34 | 0 | Correlation | 99.785 | 99.781 | -0.0049 |

## Test Statistics (%)
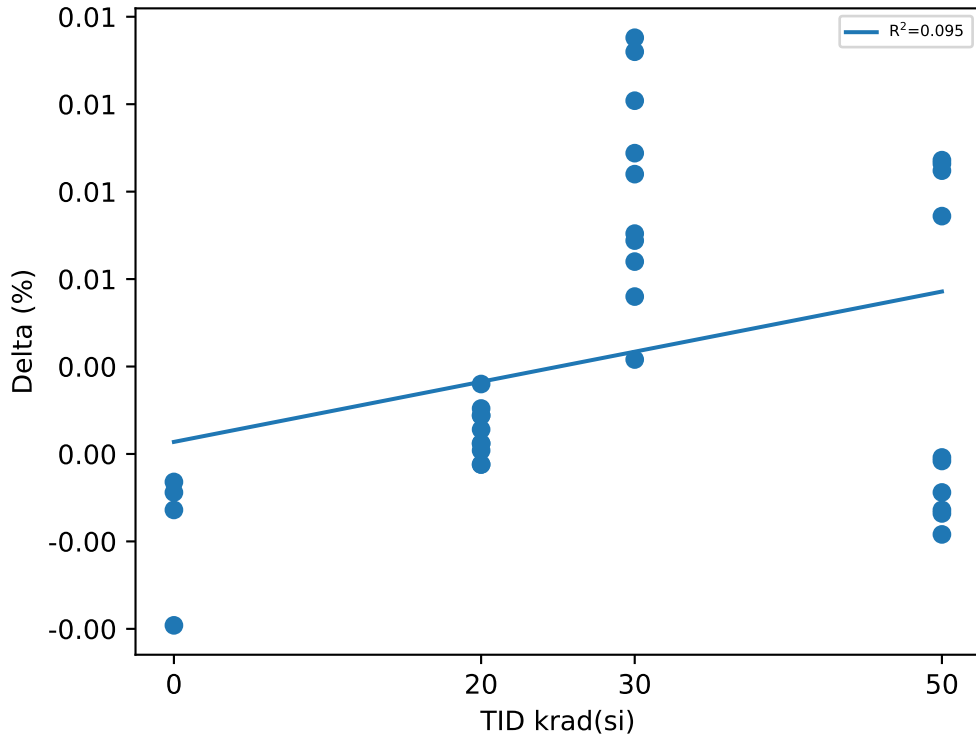
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.781 | 99.783 | 99.785 | 0.0016338 | 99.781 | 99.781 | 99.782 | 0.00092871 | -0.0049 | -0.0021 | -0.0008 | 0.0018956 |
| 20 | 99.78 | 99.782 | 99.784 | 0.0016236 | 99.779 | 99.782 | 99.785 | 0.001843 | -0.0003 | 0.00063 | 0.002 | 0.00074543 |
| 30 | 99.778 | 99.781 | 99.784 | 0.0022292 | 99.786 | 99.788 | 99.791 | 0.0019415 | 0.0027 | 0.00752 | 0.0119 | 0.0030371 |
| 50 | 99.78 | 99.782 | 99.784 | 0.0011147 | 99.78 | 99.785 | 99.791 | 0.0045223 | -0.0023 | 0.00246 | 0.0084 | 0.0047467 |

# Device Test: 15.45  VOH_EN_2MA(_EVEL|VOH/EN2/7/3/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

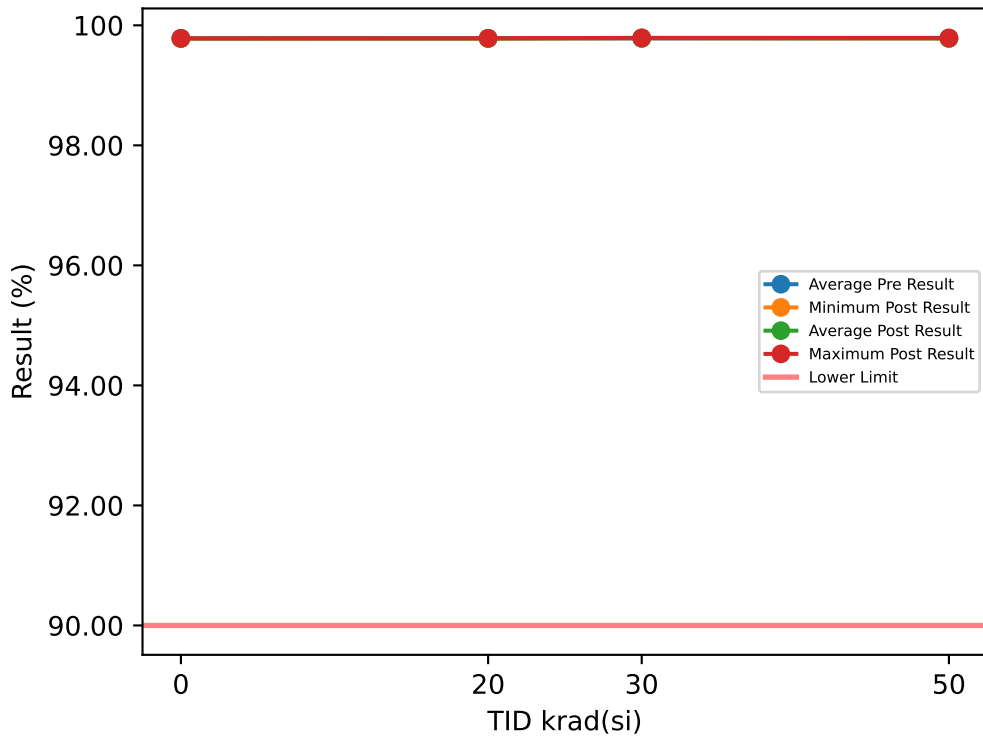| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.786 | 99.786 | 0.0005 |
| 2 | 20 | Bias | 99.785 | 99.786 | 0.0009 |
| 3 | 20 | Bias | 99.784 | 99.784 | 0.0002 |
| 4 | 20 | Bias | 99.79 | 99.79 | 0.001 |
| 5 | 20 | Bias | 99.788 | 99.787 | -0.0004 |
| 6 | 20 | Unbiased | 99.787 | 99.788 | 0.0014 |
| 7 | 20 | Unbiased | 99.787 | 99.788 | 0.0007 |
| 8 | 20 | Unbiased | 99.788 | 99.789 | 0.0012 |
| 9 | 20 | Unbiased | 99.787 | 99.788 | 0.0004 |
| 10 | 20 | Unbiased | 99.79 | 99.79 | -0.0001 |
| 11 | 30 | Bias | 99.782 | 99.791 | 0.009 |
| 12 | 30 | Bias | 99.784 | 99.789 | 0.0047 |
| 13 | 30 | Bias | 99.784 | 99.79 | 0.0058 |
| 14 | 30 | Bias | 99.788 | 99.791 | 0.0034 |
| 15 | 30 | Bias | 99.783 | 99.794 | 0.0107 |
| 16 | 30 | Unbiased | 99.788 | 99.79 | 0.0019 |
| 17 | 30 | Unbiased | 99.788 | 99.794 | 0.006 |
| 18 | 30 | Unbiased | 99.787 | 99.794 | 0.0067 |
| 19 | 30 | Unbiased | 99.784 | 99.793 | 0.0083 |
| 20 | 30 | Unbiased | 99.787 | 99.791 | 0.0031 |
| 21 | 50 | Bias | 99.788 | 99.793 | 0.0056 |
| 22 | 50 | Bias | 99.786 | 99.794 | 0.0078 |
| 23 | 50 | Bias | 99.789 | 99.792 | 0.003 |
| 24 | 50 | Bias | 99.787 | 99.794 | 0.0074 |
| 25 | 50 | Bias | 99.79 | 99.789 | -0.0005 |
| 26 | 50 | Unbiased | 99.788 | 99.786 | -0.0014 |
| 27 | 50 | Unbiased | 99.789 | 99.788 | -0.001 |
| 28 | 50 | Unbiased | 99.786 | 99.786 | -0.0007 |
| 29 | 50 | Unbiased | 99.786 | 99.784 | -0.0014 |
| 30 | 50 | Unbiased | 99.787 | 99.787 | -0.0001 |
| 31 | 0 | Correlation | 99.787 | 99.786 | -0.0007 |
| 32 | 0 | Correlation | 99.788 | 99.787 | -0.0014 |
| 33 | 0 | Correlation | 99.787 | 99.787 | -0.0009 |
| 34 | 0 | Correlation | 99.789 | 99.785 | -0.0042 |

## Test Statistics (%)
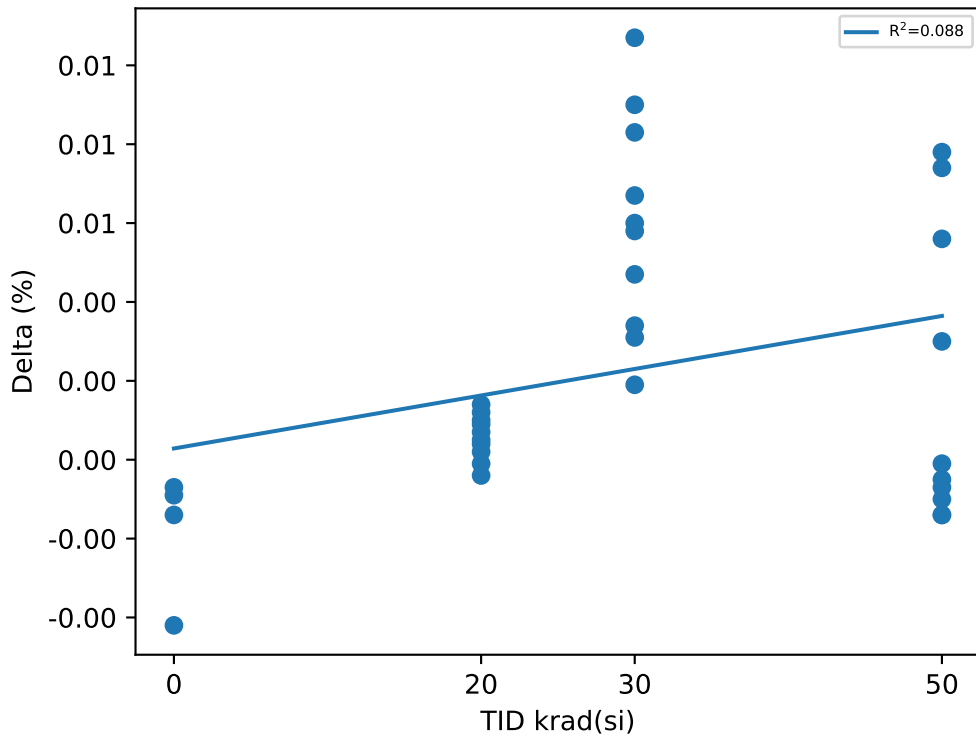
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.787 | 99.788 | 99.789 | 0.0011529 | 99.785 | 99.786 | 99.787 | 0.00084607 | -0.0042 | -0.0018 | -0.0007 | 0.0016269 |
| 20 | 99.784 | 99.787 | 99.79 | 0.001822 | 99.784 | 99.788 | 99.79 | 0.0018779 | -0.0004 | 0.00058 | 0.0014 | 0.0005731 |
| 30 | 99.782 | 99.786 | 99.788 | 0.0022152 | 99.789 | 99.792 | 99.794 | 0.0018838 | 0.0019 | 0.00596 | 0.0107 | 0.0028001 |
| 50 | 99.786 | 99.788 | 99.79 | 0.001263 | 99.784 | 99.789 | 99.794 | 0.0037165 | -0.0014 | 0.00187 | 0.0078 | 0.0037515 |

# Device Test: 15.46  VOH_EN_2MA(_EVEL|VOH/EN3/7/3/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

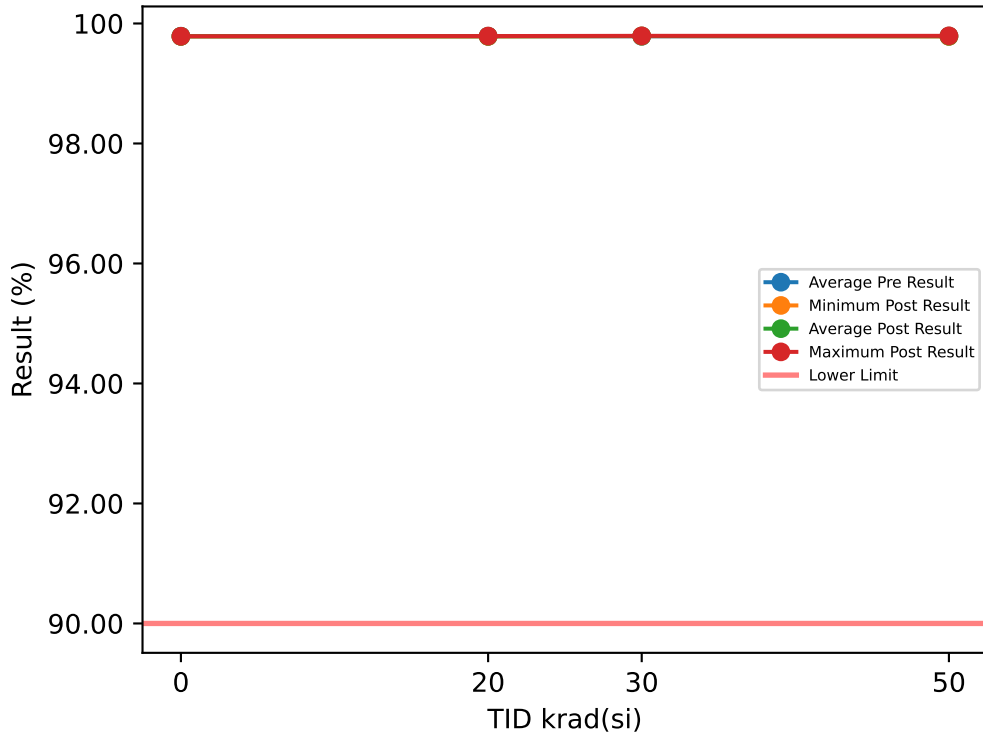| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.794 | 99.795 | 0.0005 |
| 2 | 20 | Bias | 99.793 | 99.795 | 0.0014 |
| 3 | 20 | Bias | 99.793 | 99.793 | 0.0005 |
| 4 | 20 | Bias | 99.798 | 99.799 | 0.0006 |
| 5 | 20 | Bias | 99.796 | 99.797 | 0.0004 |
| 6 | 20 | Unbiased | 99.795 | 99.797 | 0.0021 |
| 7 | 20 | Unbiased | 99.797 | 99.797 | -0.0002 |
| 8 | 20 | Unbiased | 99.797 | 99.798 | 0.0014 |
| 9 | 20 | Unbiased | 99.796 | 99.797 | 0.0006 |
| 10 | 20 | Unbiased | 99.798 | 99.798 | -0.0001 |
| 11 | 30 | Bias | 99.792 | 99.8 | 0.0081 |
| 12 | 30 | Bias | 99.793 | 99.798 | 0.0045 |
| 13 | 30 | Bias | 99.794 | 99.798 | 0.0048 |
| 14 | 30 | Bias | 99.795 | 99.799 | 0.0043 |
| 15 | 30 | Bias | 99.792 | 99.802 | 0.0096 |
| 16 | 30 | Unbiased | 99.797 | 99.799 | 0.0013 |
| 17 | 30 | Unbiased | 99.797 | 99.803 | 0.0054 |
| 18 | 30 | Unbiased | 99.796 | 99.802 | 0.0061 |
| 19 | 30 | Unbiased | 99.793 | 99.801 | 0.0081 |
| 20 | 30 | Unbiased | 99.796 | 99.799 | 0.0027 |
| 21 | 50 | Bias | 99.797 | 99.802 | 0.0053 |
| 22 | 50 | Bias | 99.795 | 99.802 | 0.0069 |
| 23 | 50 | Bias | 99.798 | 99.801 | 0.0031 |
| 24 | 50 | Bias | 99.796 | 99.802 | 0.0061 |
| 25 | 50 | Bias | 99.798 | 99.798 | -0.0002 |
| 26 | 50 | Unbiased | 99.796 | 99.795 | -0.0012 |
| 27 | 50 | Unbiased | 99.798 | 99.796 | -0.0018 |
| 28 | 50 | Unbiased | 99.794 | 99.794 | 0 |
| 29 | 50 | Unbiased | 99.795 | 99.793 | -0.0015 |
| 30 | 50 | Unbiased | 99.797 | 99.795 | -0.0015 |
| 31 | 0 | Correlation | 99.795 | 99.795 | -0.0003 |
| 32 | 0 | Correlation | 99.797 | 99.796 | -0.0008 |
| 33 | 0 | Correlation | 99.797 | 99.796 | -0.0006 |
| 34 | 0 | Correlation | 99.798 | 99.794 | -0.004 |

## Test Statistics (%)
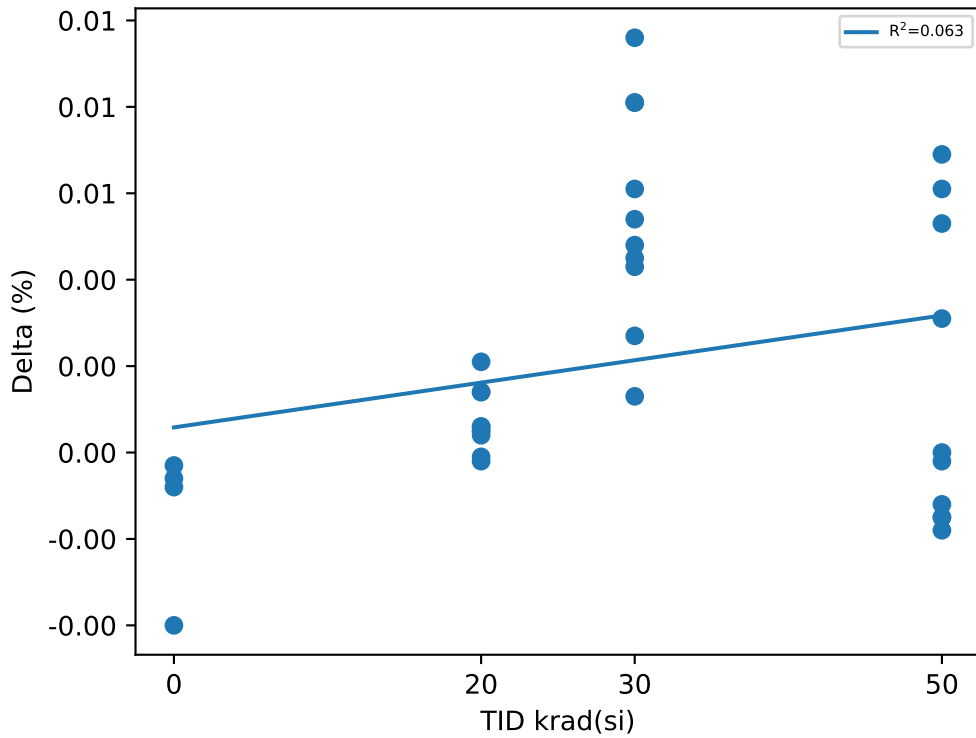
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.795 | 99.797 | 99.798 | 0.0013342 | 99.794 | 99.795 | 99.796 | 0.00098784 | -0.004 | -0.001425 | -0.0003 | 0.0017289 |
| 20 | 99.793 | 99.796 | 99.798 | 0.0018792 | 99.793 | 99.797 | 99.799 | 0.0017564 | -0.0002 | 0.00072 | 0.0021 | 0.00071305 |
| 30 | 99.792 | 99.795 | 99.797 | 0.002102 | 99.798 | 99.8 | 99.803 | 0.0017982 | 0.0013 | 0.00549 | 0.0096 | 0.0025627 |
| 50 | 99.794 | 99.796 | 99.798 | 0.0013198 | 99.793 | 99.798 | 99.802 | 0.0035002 | -0.0018 | 0.00152 | 0.0069 | 0.0034743 |

## Device Test: 15.47  VOH_EN_2MA(_EVEL|VOH/EN4/7/3/0/0/2/@VOH_EN_2MA )

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Lower Limit = 90.0 (%))

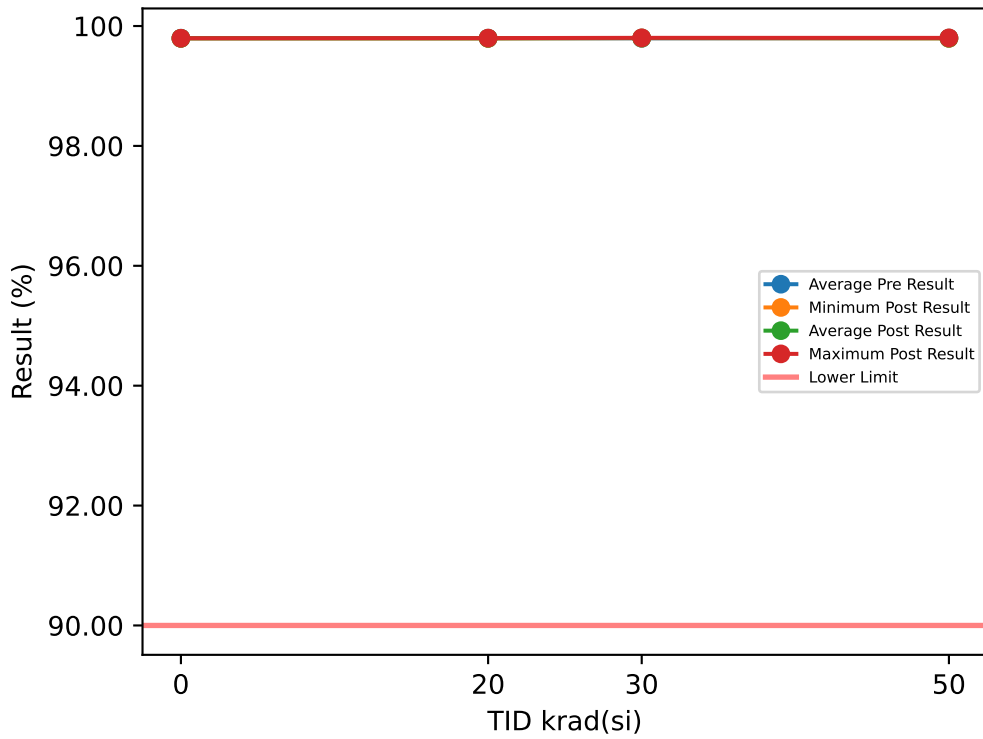| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.808 | 99.81 | 0.0014 |
| 2 | 20 | Bias | 99.808 | 99.81 | 0.0013 |
| 3 | 20 | Bias | 99.807 | 99.808 | 0.0001 |
| 4 | 20 | Bias | 99.812 | 99.813 | 0.0005 |
| 5 | 20 | Bias | 99.812 | 99.812 | -0.0003 |
| 6 | 20 | Unbiased | 99.811 | 99.812 | 0.0016 |
| 7 | 20 | Unbiased | 99.811 | 99.811 | 0 |
| 8 | 20 | Unbiased | 99.813 | 99.813 | 0.0002 |
| 9 | 20 | Unbiased | 99.811 | 99.812 | 0.0008 |
| 10 | 20 | Unbiased | 99.812 | 99.812 | -0.0001 |
| 11 | 30 | Bias | 99.807 | 99.814 | 0.0069 |
| 12 | 30 | Bias | 99.807 | 99.812 | 0.0051 |
| 13 | 30 | Bias | 99.808 | 99.813 | 0.0055 |
| 14 | 30 | Bias | 99.811 | 99.814 | 0.0031 |
| 15 | 30 | Bias | 99.807 | 99.816 | 0.0091 |
| 16 | 30 | Unbiased | 99.811 | 99.813 | 0.002 |
| 17 | 30 | Unbiased | 99.81 | 99.817 | 0.0064 |
| 18 | 30 | Unbiased | 99.81 | 99.816 | 0.006 |
| 19 | 30 | Unbiased | 99.808 | 99.815 | 0.0076 |
| 20 | 30 | Unbiased | 99.81 | 99.813 | 0.0029 |
| 21 | 50 | Bias | 99.81 | 99.817 | 0.0064 |
| 22 | 50 | Bias | 99.809 | 99.816 | 0.0065 |
| 23 | 50 | Bias | 99.811 | 99.815 | 0.0041 |
| 24 | 50 | Bias | 99.811 | 99.816 | 0.0054 |
| 25 | 50 | Bias | 99.814 | 99.812 | -0.0019 |
| 26 | 50 | Unbiased | 99.811 | 99.809 | -0.001 |
| 27 | 50 | Unbiased | 99.812 | 99.81 | -0.0018 |
| 28 | 50 | Unbiased | 99.81 | 99.81 | -0.0003 |
| 29 | 50 | Unbiased | 99.811 | 99.808 | -0.0022 |
| 30 | 50 | Unbiased | 99.811 | 99.81 | -0.0015 |
| 31 | 0 | Correlation | 99.811 | 99.809 | -0.0012 |
| 32 | 0 | Correlation | 99.811 | 99.81 | -0.0012 |
| 33 | 0 | Correlation | 99.811 | 99.809 | -0.0019 |
| 34 | 0 | Correlation | 99.813 | 99.809 | -0.0043 |

### Test Statistics (%)
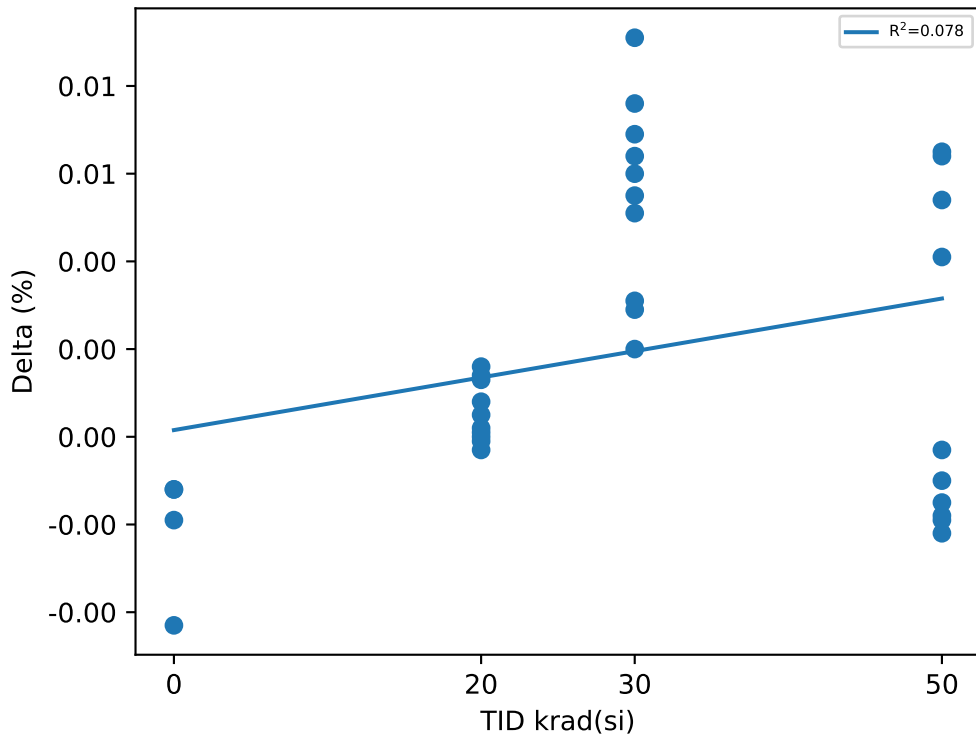
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.811 | 99.812 | 99.813 | 0.00098319 | 99.809 | 99.809 | 99.81 | 0.00057446 | -0.0043 | -0.00215 | -0.0012 | 0.0014708 |
| 20 | 99.807 | 99.811 | 99.813 | 0.0018881 | 99.808 | 99.811 | 99.813 | 0.0016921 | -0.0003 | 0.00055 | 0.0016 | 0.00068516 |
| 30 | 99.807 | 99.809 | 99.811 | 0.0016102 | 99.812 | 99.814 | 99.817 | 0.0015845 | 0.002 | 0.00546 | 0.0091 | 0.0022436 |
| 50 | 99.809 | 99.811 | 99.814 | 0.0013762 | 99.808 | 99.812 | 99.817 | 0.0032482 | -0.0022 | 0.00137 | 0.0065 | 0.0037333 |
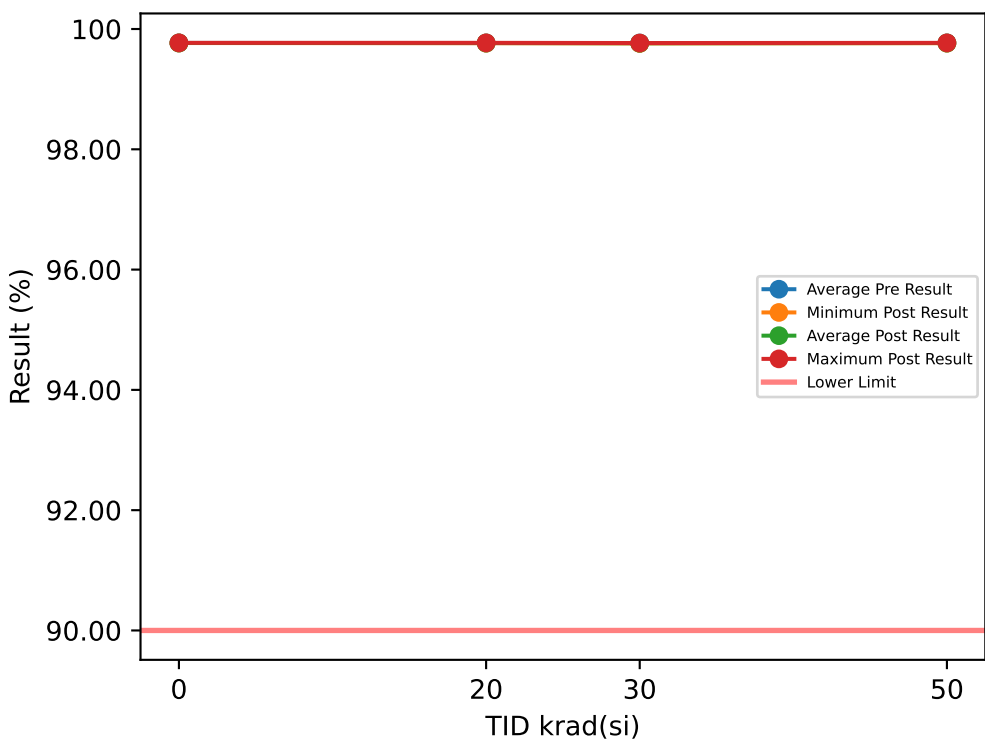
# Device Test: 15.48  VOH_SEQ_DONE_2MA(_EVEL|VOH/SEQ_DONE/7/3/0/0/2/@VOH_SEQ_DONE_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

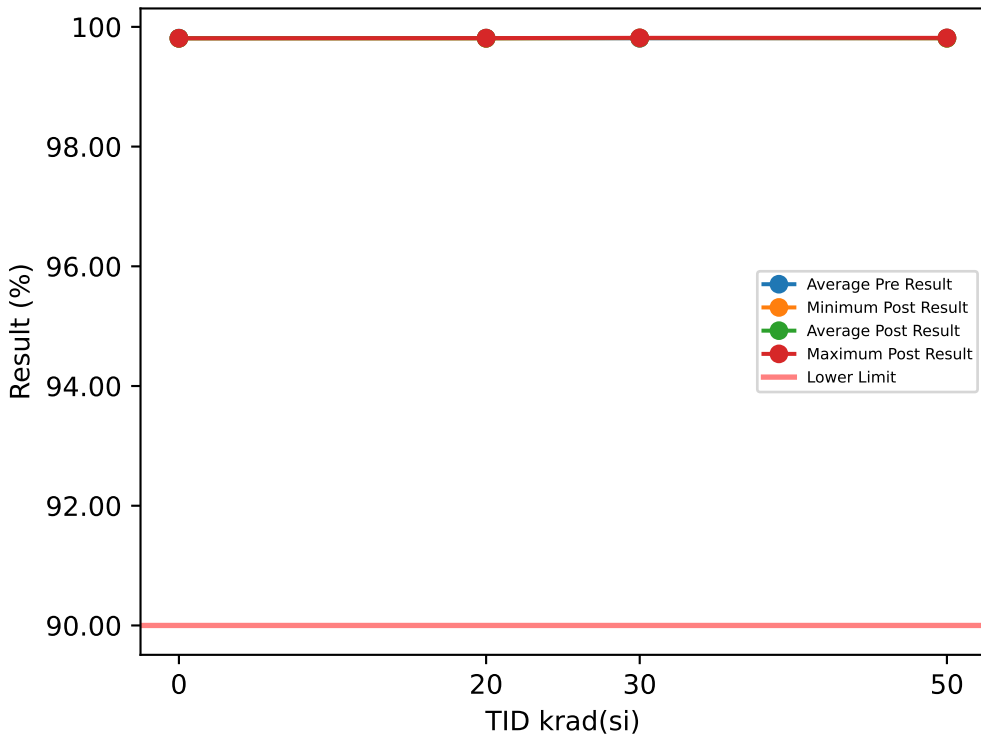| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.764 | 99.764 | 0.0005 |
| 2 | 20 | Bias | 99.764 | 99.765 | 0.0016 |
| 3 | 20 | Bias | 99.763 | 99.764 | 0.0005 |
| 4 | 20 | Bias | 99.769 | 99.77 | 0.0011 |
| 5 | 20 | Bias | 99.768 | 99.769 | 0.0012 |
| 6 | 20 | Unbiased | 99.766 | 99.768 | 0.002 |
| 7 | 20 | Unbiased | 99.768 | 99.768 | 0.0008 |
| 8 | 20 | Unbiased | 99.766 | 99.768 | 0.0015 |
| 9 | 20 | Unbiased | 99.767 | 99.769 | 0.0016 |
| 10 | 20 | Unbiased | 99.769 | 99.769 | 0.0003 |
| 11 | 30 | Bias | 99.762 | 99.764 | 0.0014 |
| 12 | 30 | Bias | 99.765 | 99.76 | -0.0046 |
| 13 | 30 | Bias | 99.766 | 99.762 | -0.0042 |
| 14 | 30 | Bias | 99.77 | 99.763 | -0.0063 |
| 15 | 30 | Bias | 99.763 | 99.766 | 0.0033 |
| 16 | 30 | Unbiased | 99.769 | 99.761 | -0.0084 |
| 17 | 30 | Unbiased | 99.77 | 99.767 | -0.0031 |
| 18 | 30 | Unbiased | 99.769 | 99.766 | -0.0031 |
| 19 | 30 | Unbiased | 99.764 | 99.765 | 0.001 |
| 20 | 30 | Unbiased | 99.77 | 99.762 | -0.0086 |
| 21 | 50 | Bias | 99.77 | 99.767 | -0.0026 |
| 22 | 50 | Bias | 99.768 | 99.766 | -0.0015 |
| 23 | 50 | Bias | 99.769 | 99.764 | -0.0045 |
| 24 | 50 | Bias | 99.767 | 99.766 | -0.0012 |
| 25 | 50 | Bias | 99.77 | 99.77 | -0.0001 |
| 26 | 50 | Unbiased | 99.767 | 99.768 | 0.001 |
| 27 | 50 | Unbiased | 99.767 | 99.768 | 0.0006 |
| 28 | 50 | Unbiased | 99.766 | 99.767 | 0.0018 |
| 29 | 50 | Unbiased | 99.765 | 99.766 | 0.0011 |
| 30 | 50 | Unbiased | 99.767 | 99.768 | 0.0008 |
| 31 | 0 | Correlation | 99.766 | 99.767 | 0.0009 |
| 32 | 0 | Correlation | 99.769 | 99.77 | 0.0004 |
| 33 | 0 | Correlation | 99.768 | 99.768 | -0.0003 |
| 34 | 0 | Correlation | 99.769 | 99.767 | -0.0024 |

## Test Statistics (%)
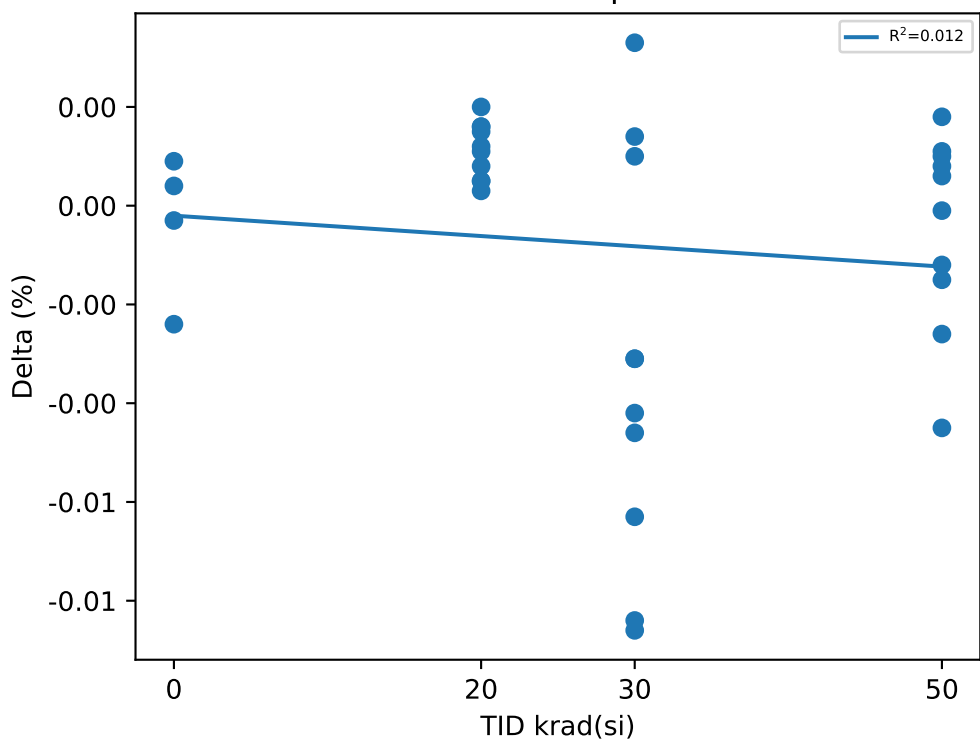
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.766 | 99.768 | 99.769 | 0.0013745 | 99.767 | 99.768 | 99.77 | 0.001315 | -0.0024 | -0.00035 | 0.0009 | 0.0014526 |
| 20 | 99.763 | 99.766 | 99.769 | 0.0022095 | 99.764 | 99.768 | 99.77 | 0.0022935 | 0.0003 | 0.00111 | 0.002 | 0.00057048 |
| 30 | 99.762 | 99.767 | 99.77 | 0.0031972 | 99.76 | 99.764 | 99.767 | 0.0023424 | -0.0086 | -0.00326 | 0.0033 | 0.0040798 |
| 50 | 99.765 | 99.767 | 99.77 | 0.0016056 | 99.764 | 99.767 | 99.77 | 0.0015286 | -0.0045 | -0.00046 | 0.0018 | 0.0019733 |
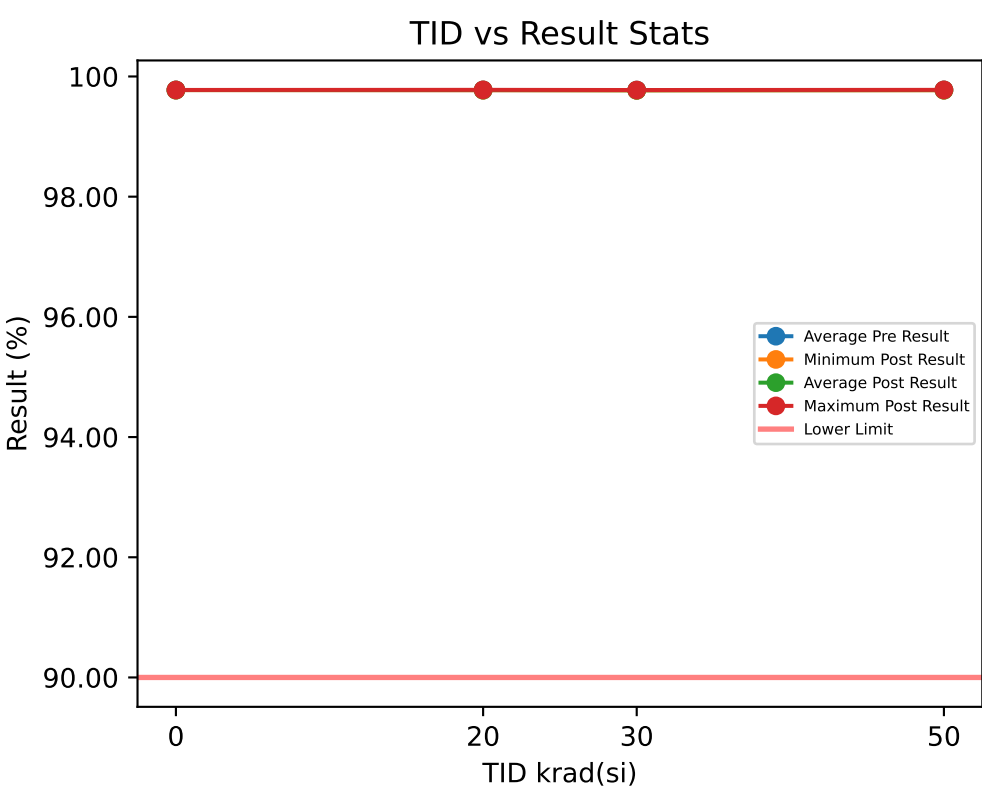
# Device Test: 15.49  VOH_PWRGD_2MA(_EVEL|VOH/PWRGD/7/3/0/0/2/@VOH_PWRGD_2MA )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit

## TID vs Post - Pre Exposure Delta



R²=0.056

## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.77 | 99.772 | 0.0025 |
| 2 | 20 | Bias | 99.77 | 99.772 | 0.0021 |
| 3 | 20 | Bias | 99.768 | 99.77 | 0.0021 |
| 4 | 20 | Bias | 99.775 | 99.778 | 0.0024 |
| 5 | 20 | Bias | 99.775 | 99.777 | 0.0017 |
| 6 | 20 | Unbiased | 99.774 | 99.775 | 0.0016 |
| 7 | 20 | Unbiased | 99.773 | 99.775 | 0.0017 |
| 8 | 20 | Unbiased | 99.774 | 99.776 | 0.0017 |
| 9 | 20 | Unbiased | 99.774 | 99.776 | 0.0016 |
| 10 | 20 | Unbiased | 99.775 | 99.776 | 0.0011 |
| 11 | 30 | Bias | 99.769 | 99.772 | 0.0028 |
| 12 | 30 | Bias | 99.77 | 99.768 | -0.0023 |
| 13 | 30 | Bias | 99.773 | 99.77 | -0.0025 |
| 14 | 30 | Bias | 99.776 | 99.771 | -0.0042 |
| 15 | 30 | Bias | 99.769 | 99.773 | 0.0045 |
| 16 | 30 | Unbiased | 99.776 | 99.768 | -0.0081 |
| 17 | 30 | Unbiased | 99.776 | 99.775 | -0.0011 |
| 18 | 30 | Unbiased | 99.775 | 99.774 | -0.0016 |
| 19 | 30 | Unbiased | 99.77 | 99.774 | 0.0038 |
| 20 | 30 | Unbiased | 99.775 | 99.768 | -0.0071 |
| 21 | 50 | Bias | 99.775 | 99.774 | -0.0006 |
| 22 | 50 | Bias | 99.774 | 99.772 | -0.002 |
| 23 | 50 | Bias | 99.775 | 99.771 | -0.0042 |
| 24 | 50 | Bias | 99.774 | 99.773 | -0.0008 |
| 25 | 50 | Bias | 99.777 | 99.777 | 0.0007 |
| 26 | 50 | Unbiased | 99.775 | 99.774 | -0.0012 |
| 27 | 50 | Unbiased | 99.776 | 99.775 | -0.0007 |
| 28 | 50 | Unbiased | 99.773 | 99.772 | -0.0005 |
| 29 | 50 | Unbiased | 99.773 | 99.772 | -0.0007 |
| 30 | 50 | Unbiased | 99.775 | 99.774 | -0.0006 |
| 31 | 0 | Correlation | 99.773 | 99.774 | 0.001 |
| 32 | 0 | Correlation | 99.775 | 99.776 | 0.0003 |
| 33 | 0 | Correlation | 99.775 | 99.775 | -0.0004 |
| 34 | 0 | Correlation | 99.775 | 99.773 | -0.0026 |
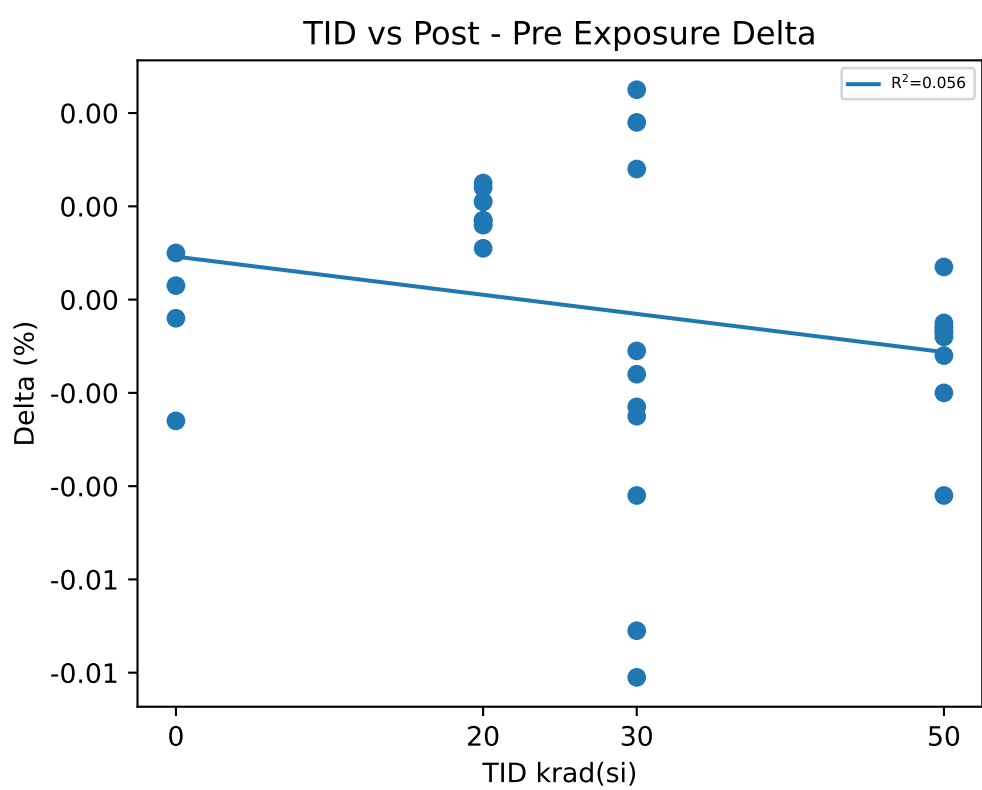
## Test Statistics (%)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.773 | 99.775 | 99.775 | 0.001278 | 99.773 | 99.774 | 99.776 | 0.001279 | -0.0026 | -0.000425 | 0.001 | 0.0015586 |
| 20 | 99.768 | 99.773 | 99.775 | 0.002592 | 99.77 | 99.775 | 99.778 | 0.0023798 | 0.0011 | 0.00185 | 0.0025 | 0.0004223 |
| 30 | 99.769 | 99.773 | 99.776 | 0.0030985 | 99.768 | 99.771 | 99.775 | 0.0024879 | -0.0081 | -0.00158 | 0.0045 | 0.0043016 |
| 50 | 99.773 | 99.775 | 99.777 | 0.0011818 | 99.771 | 99.773 | 99.777 | 0.0018656 | -0.0042 | -0.00106 | 0.0007 | 0.0012877 |
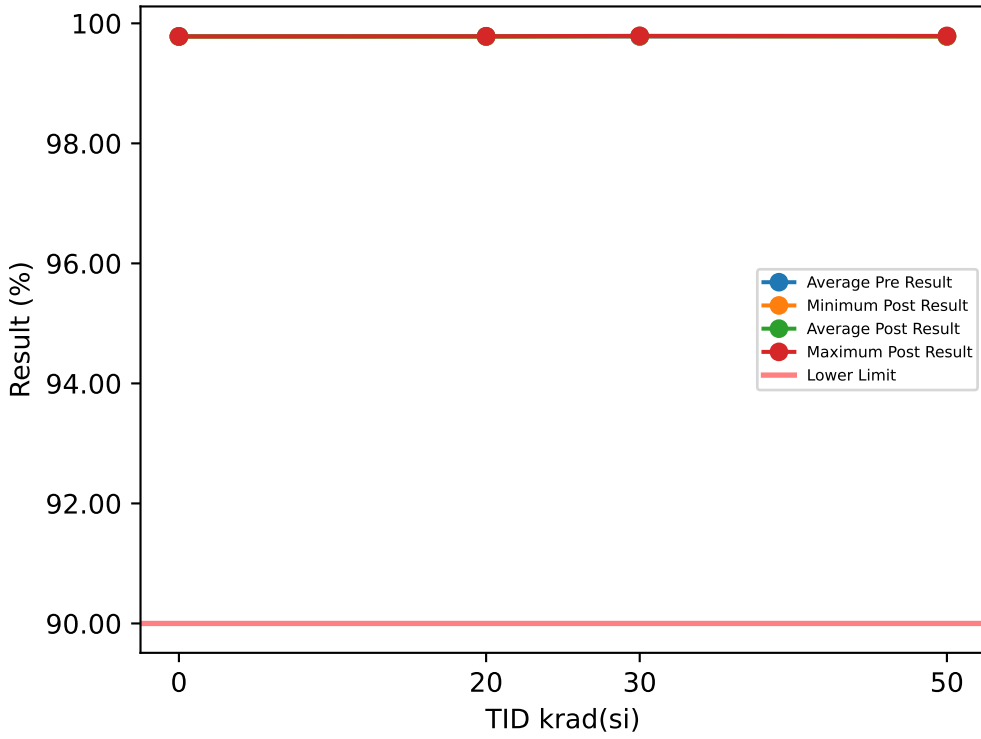
# Device Test: 15.50  VOH_EN_2MA(_EVEL|VOH/EN1/7/14/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.779 | 99.781 | 0.0012 |
| 2 | 20 | Bias | 99.779 | 99.781 | 0.0015 |
| 3 | 20 | Bias | 99.779 | 99.78 | 0.0012 |
| 4 | 20 | Bias | 99.784 | 99.785 | 0.0012 |
| 5 | 20 | Bias | 99.782 | 99.783 | 0.0003 |
| 6 | 20 | Unbiased | 99.781 | 99.782 | 0.001 |
| 7 | 20 | Unbiased | 99.782 | 99.782 | 0 |
| 8 | 20 | Unbiased | 99.783 | 99.784 | 0.0016 |
| 9 | 20 | Unbiased | 99.783 | 99.783 | 0.0001 |
| 10 | 20 | Unbiased | 99.784 | 99.784 | -0.0007 |
| 11 | 30 | Bias | 99.778 | 99.788 | 0.0108 |
| 12 | 30 | Bias | 99.78 | 99.786 | 0.006 |
| 13 | 30 | Bias | 99.779 | 99.787 | 0.0083 |
| 14 | 30 | Bias | 99.781 | 99.787 | 0.0053 |
| 15 | 30 | Bias | 99.777 | 99.79 | 0.0132 |
| 16 | 30 | Unbiased | 99.784 | 99.785 | 0.0011 |
| 17 | 30 | Unbiased | 99.783 | 99.792 | 0.0092 |
| 18 | 30 | Unbiased | 99.783 | 99.79 | 0.0073 |
| 19 | 30 | Unbiased | 99.778 | 99.789 | 0.0109 |
| 20 | 30 | Unbiased | 99.782 | 99.786 | 0.0033 |
| 21 | 50 | Bias | 99.783 | 99.79 | 0.0076 |
| 22 | 50 | Bias | 99.782 | 99.79 | 0.0079 |
| 23 | 50 | Bias | 99.782 | 99.789 | 0.0064 |
| 24 | 50 | Bias | 99.782 | 99.79 | 0.0086 |
| 25 | 50 | Bias | 99.784 | 99.783 | -0.001 |
| 26 | 50 | Unbiased | 99.782 | 99.781 | -0.0017 |
| 27 | 50 | Unbiased | 99.784 | 99.783 | -0.0008 |
| 28 | 50 | Unbiased | 99.781 | 99.78 | -0.0004 |
| 29 | 50 | Unbiased | 99.782 | 99.781 | -0.0006 |
| 30 | 50 | Unbiased | 99.783 | 99.781 | -0.0012 |
| 31 | 0 | Correlation | 99.781 | 99.78 | -0.0007 |
| 32 | 0 | Correlation | 99.782 | 99.782 | -0.0006 |
| 33 | 0 | Correlation | 99.782 | 99.782 | -0.0003 |
| 34 | 0 | Correlation | 99.785 | 99.781 | -0.0035 |

## Test Statistics (%)
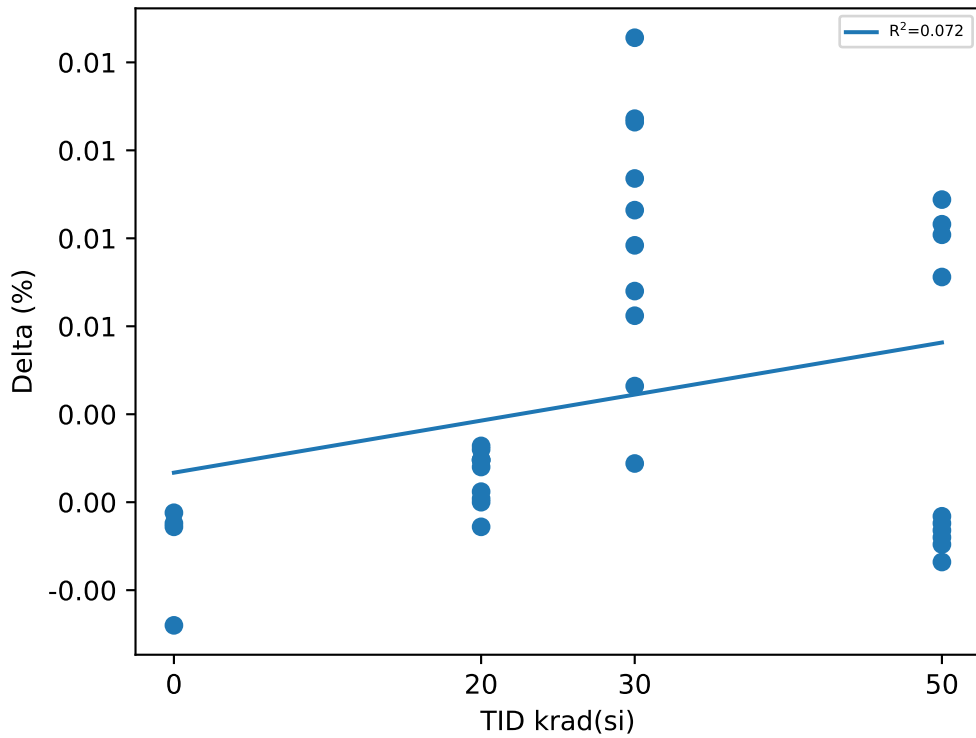
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.781 | 99.783 | 99.785 | 0.0016371 | 99.78 | 99.781 | 99.782 | 0.00097767 | -0.0035 | -0.001275 | -0.0003 | 0.001493 |
| 20 | 99.779 | 99.782 | 99.784 | 0.0019529 | 99.78 | 99.782 | 99.785 | 0.0016673 | -0.0007 | 0.00074 | 0.0016 | 0.00076333 |
| 30 | 99.777 | 99.781 | 99.784 | 0.0024208 | 99.785 | 99.788 | 99.792 | 0.0023056 | 0.0011 | 0.00754 | 0.0132 | 0.0037146 |
| 50 | 99.781 | 99.782 | 99.784 | 0.0010274 | 99.78 | 99.785 | 99.79 | 0.0043921 | -0.0017 | 0.00248 | 0.0086 | 0.0044731 |
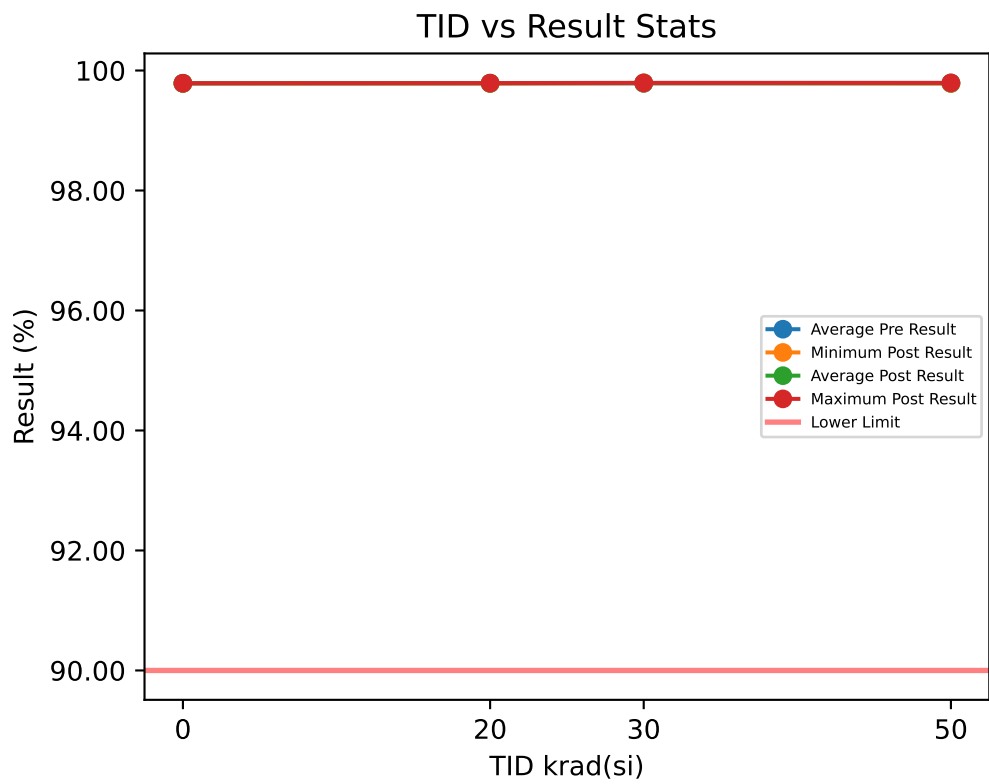
# Device Test: 15.51  VOH_EN_2MA(_EVEL|VOH/EN2/7/14/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.785 | 99.787 | 0.001 |
| 2 | 20 | Bias | 99.785 | 99.787 | 0.0018 |
| 3 | 20 | Bias | 99.784 | 99.784 | 0.0007 |
| 4 | 20 | Bias | 99.789 | 99.791 | 0.0014 |
| 5 | 20 | Bias | 99.787 | 99.788 | 0.0006 |
| 6 | 20 | Unbiased | 99.785 | 99.787 | 0.0014 |
| 7 | 20 | Unbiased | 99.787 | 99.787 | -0.0006 |
| 8 | 20 | Unbiased | 99.788 | 99.789 | 0.0007 |
| 9 | 20 | Unbiased | 99.787 | 99.788 | 0.0003 |
| 10 | 20 | Unbiased | 99.79 | 99.789 | -0.0001 |
| 11 | 30 | Bias | 99.782 | 99.792 | 0.0097 |
| 12 | 30 | Bias | 99.784 | 99.789 | 0.0045 |
| 13 | 30 | Bias | 99.785 | 99.79 | 0.0055 |
| 14 | 30 | Bias | 99.787 | 99.791 | 0.0033 |
| 15 | 30 | Bias | 99.782 | 99.794 | 0.0118 |
| 16 | 30 | Unbiased | 99.788 | 99.788 | 0.0002 |
| 17 | 30 | Unbiased | 99.788 | 99.794 | 0.0064 |
| 18 | 30 | Unbiased | 99.787 | 99.794 | 0.0068 |
| 19 | 30 | Unbiased | 99.784 | 99.793 | 0.0086 |
| 20 | 30 | Unbiased | 99.788 | 99.79 | 0.0025 |
| 21 | 50 | Bias | 99.788 | 99.794 | 0.0061 |
| 22 | 50 | Bias | 99.787 | 99.794 | 0.007 |
| 23 | 50 | Bias | 99.788 | 99.792 | 0.0038 |
| 24 | 50 | Bias | 99.787 | 99.794 | 0.0072 |
| 25 | 50 | Bias | 99.79 | 99.789 | -0.0008 |
| 26 | 50 | Unbiased | 99.787 | 99.787 | -0.0008 |
| 27 | 50 | Unbiased | 99.789 | 99.788 | -0.0011 |
| 28 | 50 | Unbiased | 99.786 | 99.786 | 0.0001 |
| 29 | 50 | Unbiased | 99.785 | 99.784 | -0.0012 |
| 30 | 50 | Unbiased | 99.788 | 99.786 | -0.0016 |
| 31 | 0 | Correlation | 99.786 | 99.786 | 0.0001 |
| 32 | 0 | Correlation | 99.788 | 99.788 | 0 |
| 33 | 0 | Correlation | 99.787 | 99.786 | -0.0007 |
| 34 | 0 | Correlation | 99.789 | 99.785 | -0.0038 |
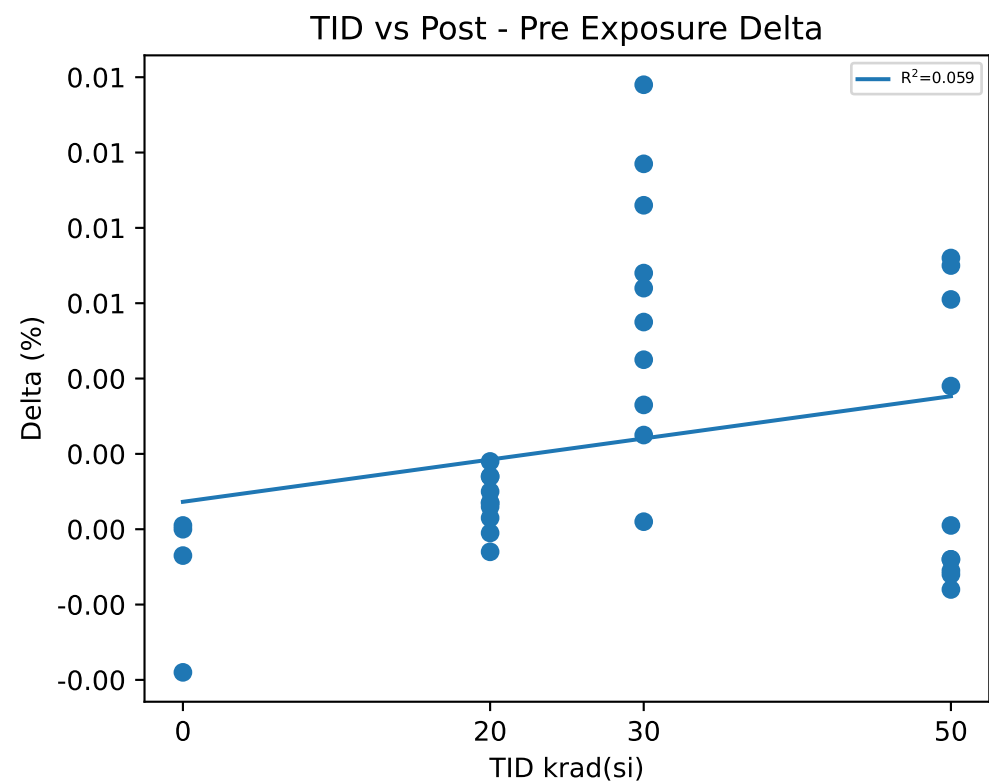
## Test Statistics (%)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.786 | 99.787 | 99.789 | 0.0014361 | 99.785 | 99.786 | 99.788 | 0.0010813 | -0.0038 | -0.0011 | 0.0001 | 0.0018348 |
| 20 | 99.784 | 99.787 | 99.79 | 0.0018277 | 99.784 | 99.788 | 99.791 | 0.0017114 | -0.0006 | 0.00072 | 0.0018 | 0.00072847 |
| 30 | 99.782 | 99.786 | 99.788 | 0.0023206 | 99.788 | 99.792 | 99.794 | 0.002268 | 0.0002 | 0.00593 | 0.0118 | 0.0035043 |
| 50 | 99.785 | 99.788 | 99.79 | 0.0014476 | 99.784 | 99.789 | 99.794 | 0.0038767 | -0.0016 | 0.00187 | 0.0072 | 0.0037122 |
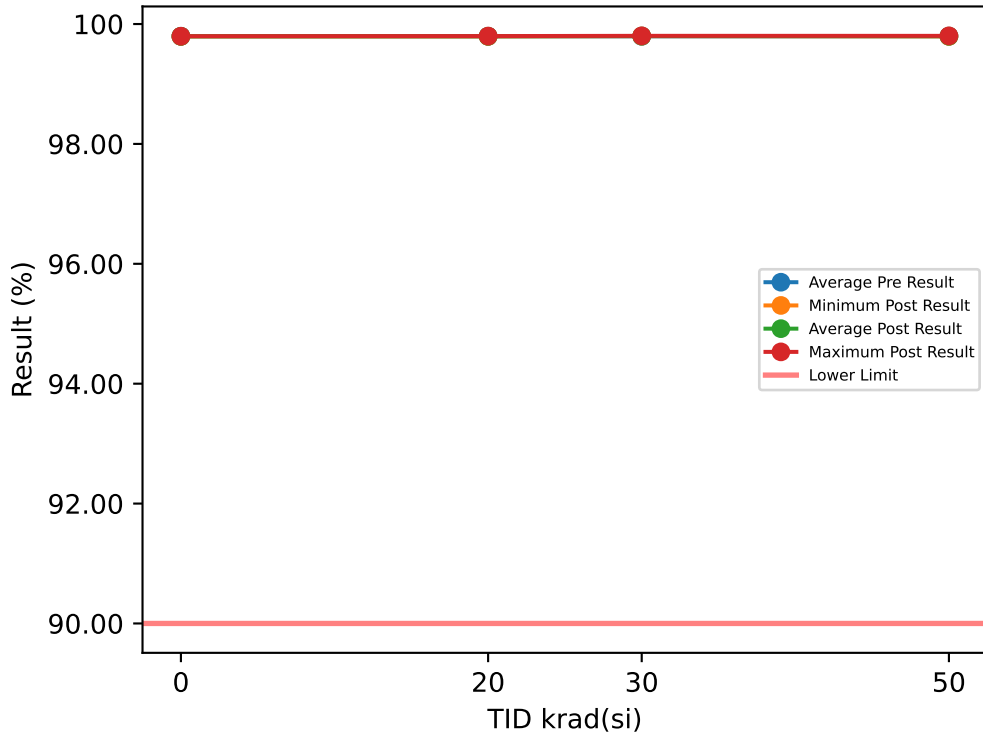
# Device Test: 15.52  VOH_EN_2MA(_EVEL|VOH/EN3/7/14/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.794 | 99.796 | 0.0016 |
| 2 | 20 | Bias | 99.794 | 99.795 | 0.0011 |
| 3 | 20 | Bias | 99.792 | 99.794 | 0.0013 |
| 4 | 20 | Bias | 99.798 | 99.799 | 0.001 |
| 5 | 20 | Bias | 99.796 | 99.797 | 0.0011 |
| 6 | 20 | Unbiased | 99.795 | 99.796 | 0.001 |
| 7 | 20 | Unbiased | 99.797 | 99.797 | 0.0002 |
| 8 | 20 | Unbiased | 99.797 | 99.798 | 0.0004 |
| 9 | 20 | Unbiased | 99.796 | 99.797 | 0.0012 |
| 10 | 20 | Unbiased | 99.798 | 99.798 | 0 |
| 11 | 30 | Bias | 99.792 | 99.8 | 0.0083 |
| 12 | 30 | Bias | 99.794 | 99.798 | 0.004 |
| 13 | 30 | Bias | 99.794 | 99.798 | 0.0041 |
| 14 | 30 | Bias | 99.796 | 99.799 | 0.0033 |
| 15 | 30 | Bias | 99.791 | 99.802 | 0.0107 |
| 16 | 30 | Unbiased | 99.797 | 99.798 | 0.0012 |
| 17 | 30 | Unbiased | 99.798 | 99.803 | 0.0055 |
| 18 | 30 | Unbiased | 99.796 | 99.802 | 0.0064 |
| 19 | 30 | Unbiased | 99.793 | 99.801 | 0.0084 |
| 20 | 30 | Unbiased | 99.797 | 99.798 | 0.0017 |
| 21 | 50 | Bias | 99.797 | 99.803 | 0.006 |
| 22 | 50 | Bias | 99.795 | 99.802 | 0.0072 |
| 23 | 50 | Bias | 99.797 | 99.799 | 0.0028 |
| 24 | 50 | Bias | 99.796 | 99.802 | 0.0063 |
| 25 | 50 | Bias | 99.799 | 99.799 | -0.0001 |
| 26 | 50 | Unbiased | 99.797 | 99.795 | -0.0016 |
| 27 | 50 | Unbiased | 99.798 | 99.797 | -0.0008 |
| 28 | 50 | Unbiased | 99.794 | 99.794 | 0 |
| 29 | 50 | Unbiased | 99.795 | 99.794 | -0.0014 |
| 30 | 50 | Unbiased | 99.796 | 99.795 | -0.0012 |
| 31 | 0 | Correlation | 99.795 | 99.794 | -0.0008 |
| 32 | 0 | Correlation | 99.797 | 99.797 | -0.0007 |
| 33 | 0 | Correlation | 99.795 | 99.796 | 0.0005 |
| 34 | 0 | Correlation | 99.799 | 99.795 | -0.0037 |

## Test Statistics (%)
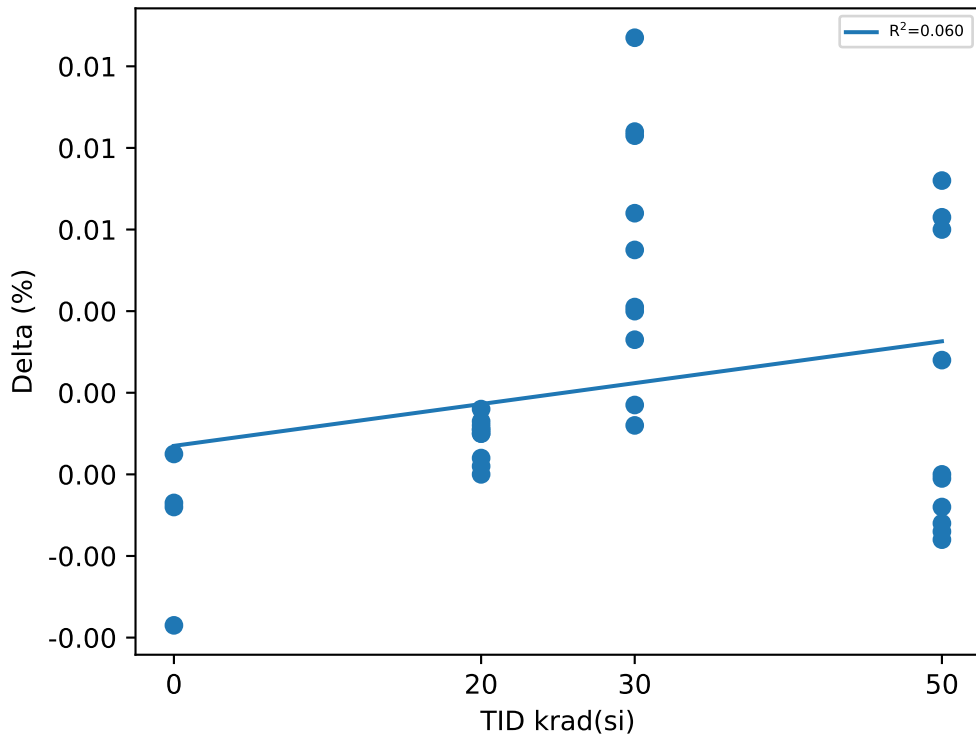
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.795 | 99.797 | 99.799 | 0.0017231 | 99.794 | 99.795 | 99.797 | 0.0011902 | -0.0037 | -0.001175 | 0.0005 | 0.001784 |
| 20 | 99.792 | 99.796 | 99.798 | 0.0018999 | 99.794 | 99.797 | 99.799 | 0.0015932 | 0 | 0.00089 | 0.0016 | 0.00051521 |
| 30 | 99.791 | 99.795 | 99.798 | 0.0022337 | 99.798 | 99.8 | 99.803 | 0.0020569 | 0.0012 | 0.00536 | 0.0107 | 0.0030891 |
| 50 | 99.794 | 99.796 | 99.799 | 0.0013606 | 99.794 | 99.798 | 99.803 | 0.0034527 | -0.0016 | 0.00172 | 0.0072 | 0.0035339 |
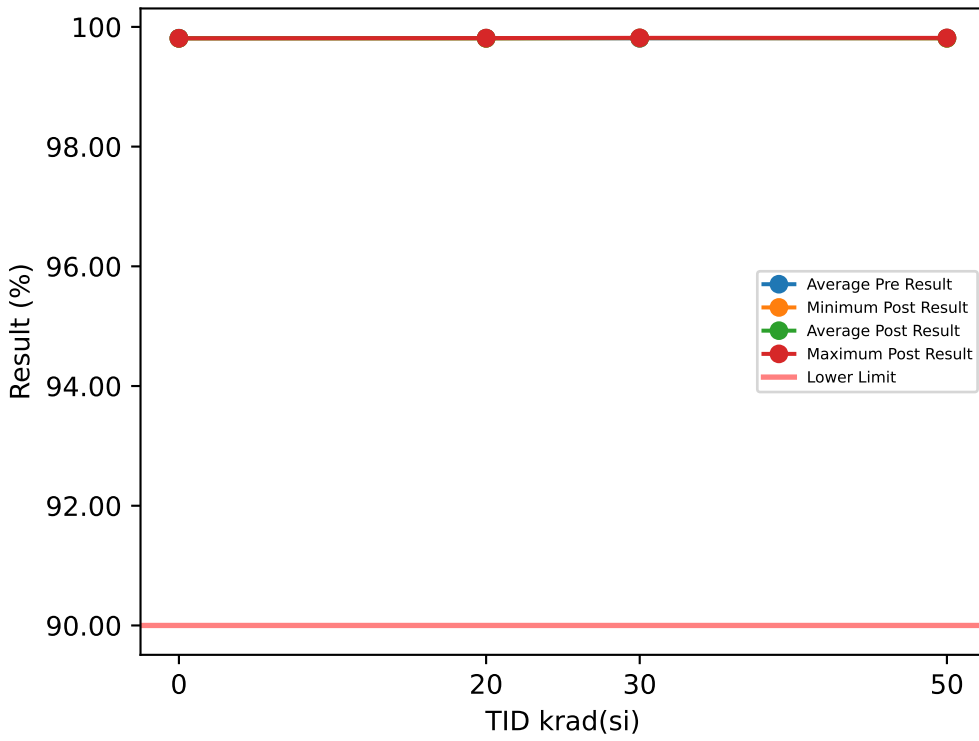
# Device Test: 15.53  VOH_EN_2MA(_EVEL|VOH/EN4/7/14/0/0/2/@VOH_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.808 | 99.81 | 0.0022 |
| 2 | 20 | Bias | 99.808 | 99.81 | 0.0015 |
| 3 | 20 | Bias | 99.807 | 99.808 | 0.0008 |
| 4 | 20 | Bias | 99.812 | 99.814 | 0.0015 |
| 5 | 20 | Bias | 99.811 | 99.812 | 0.0012 |
| 6 | 20 | Unbiased | 99.811 | 99.811 | 0.0008 |
| 7 | 20 | Unbiased | 99.811 | 99.811 | -0.0004 |
| 8 | 20 | Unbiased | 99.812 | 99.813 | 0.0002 |
| 9 | 20 | Unbiased | 99.81 | 99.811 | 0.001 |
| 10 | 20 | Unbiased | 99.812 | 99.812 | 0.0001 |
| 11 | 30 | Bias | 99.806 | 99.815 | 0.0083 |
| 12 | 30 | Bias | 99.808 | 99.812 | 0.0048 |
| 13 | 30 | Bias | 99.809 | 99.813 | 0.0045 |
| 14 | 30 | Bias | 99.81 | 99.814 | 0.0037 |
| 15 | 30 | Bias | 99.806 | 99.816 | 0.0108 |
| 16 | 30 | Unbiased | 99.811 | 99.813 | 0.0019 |
| 17 | 30 | Unbiased | 99.811 | 99.817 | 0.0062 |
| 18 | 30 | Unbiased | 99.811 | 99.816 | 0.0057 |
| 19 | 30 | Unbiased | 99.807 | 99.815 | 0.0084 |
| 20 | 30 | Unbiased | 99.811 | 99.813 | 0.0025 |
| 21 | 50 | Bias | 99.811 | 99.817 | 0.006 |
| 22 | 50 | Bias | 99.809 | 99.816 | 0.0065 |
| 23 | 50 | Bias | 99.811 | 99.814 | 0.0032 |
| 24 | 50 | Bias | 99.811 | 99.816 | 0.0055 |
| 25 | 50 | Bias | 99.814 | 99.813 | -0.0013 |
| 26 | 50 | Unbiased | 99.811 | 99.81 | -0.001 |
| 27 | 50 | Unbiased | 99.811 | 99.811 | -0.0007 |
| 28 | 50 | Unbiased | 99.811 | 99.809 | -0.0014 |
| 29 | 50 | Unbiased | 99.811 | 99.808 | -0.0023 |
| 30 | 50 | Unbiased | 99.811 | 99.81 | -0.0016 |
| 31 | 0 | Correlation | 99.81 | 99.809 | -0.0006 |
| 32 | 0 | Correlation | 99.811 | 99.81 | -0.0009 |
| 33 | 0 | Correlation | 99.811 | 99.81 | -0.0012 |
| 34 | 0 | Correlation | 99.814 | 99.809 | -0.0049 |

## Test Statistics (%)
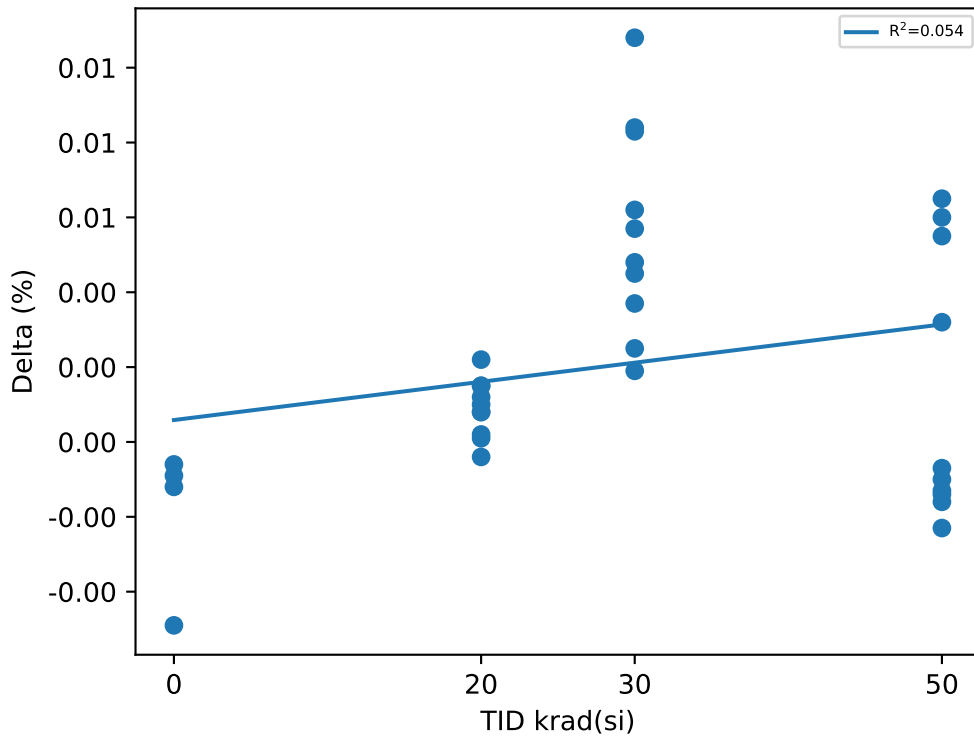
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.81 | 99.811 | 99.814 | 0.0017173 | 99.809 | 99.81 | 99.81 | 0.00061305 | -0.0049 | -0.0019 | -0.0006 | 0.0020149 |
| 20 | 99.807 | 99.81 | 99.812 | 0.0019559 | 99.808 | 99.811 | 99.814 | 0.0016831 | -0.0004 | 0.00089 | 0.0022 | 0.00077093 |
| 30 | 99.806 | 99.809 | 99.811 | 0.0021088 | 99.812 | 99.815 | 99.817 | 0.0017474 | 0.0019 | 0.00568 | 0.0108 | 0.0028134 |
| 50 | 99.809 | 99.811 | 99.814 | 0.0012066 | 99.808 | 99.812 | 99.817 | 0.0032177 | -0.0023 | 0.00129 | 0.0065 | 0.003576 |
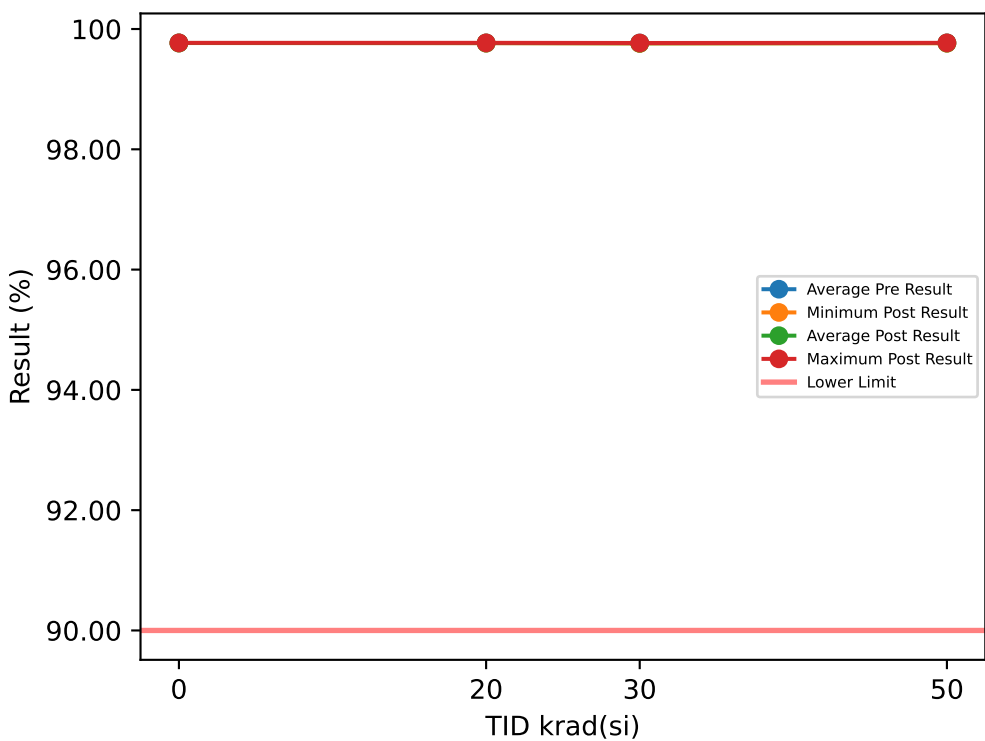
# Device Test: 15.54  VOH_SEQ_DONE_2MA(_EVEL|VOH/SEQ_DONE/7/14/0/0/2/@VOH_SEQ_DONE_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 99.764 | 99.765 | 0.0007 |
| 2 | 20 | Bias | 99.763 | 99.765 | 0.0016 |
| 3 | 20 | Bias | 99.763 | 99.764 | 0.0017 |
| 4 | 20 | Bias | 99.769 | 99.77 | 0.0009 |
| 5 | 20 | Bias | 99.769 | 99.769 | 0.0005 |
| 6 | 20 | Unbiased | 99.766 | 99.768 | 0.0014 |
| 7 | 20 | Unbiased | 99.767 | 99.768 | 0.0011 |
| 8 | 20 | Unbiased | 99.767 | 99.768 | 0.0008 |
| 9 | 20 | Unbiased | 99.767 | 99.769 | 0.0012 |
| 10 | 20 | Unbiased | 99.768 | 99.769 | 0.0014 |
| 11 | 30 | Bias | 99.762 | 99.764 | 0.0015 |
| 12 | 30 | Bias | 99.764 | 99.76 | -0.0045 |
| 13 | 30 | Bias | 99.766 | 99.762 | -0.0037 |
| 14 | 30 | Bias | 99.769 | 99.763 | -0.0065 |
| 15 | 30 | Bias | 99.763 | 99.766 | 0.0034 |
| 16 | 30 | Unbiased | 99.77 | 99.761 | -0.0096 |
| 17 | 30 | Unbiased | 99.769 | 99.768 | -0.0014 |
| 18 | 30 | Unbiased | 99.769 | 99.766 | -0.0028 |
| 19 | 30 | Unbiased | 99.765 | 99.766 | 0.0008 |
| 20 | 30 | Unbiased | 99.77 | 99.762 | -0.0085 |
| 21 | 50 | Bias | 99.769 | 99.767 | -0.0021 |
| 22 | 50 | Bias | 99.767 | 99.767 | -0.0001 |
| 23 | 50 | Bias | 99.769 | 99.763 | -0.006 |
| 24 | 50 | Bias | 99.767 | 99.766 | -0.0013 |
| 25 | 50 | Bias | 99.769 | 99.77 | 0.0012 |
| 26 | 50 | Unbiased | 99.767 | 99.768 | 0.0006 |
| 27 | 50 | Unbiased | 99.767 | 99.768 | 0.0007 |
| 28 | 50 | Unbiased | 99.766 | 99.768 | 0.0013 |
| 29 | 50 | Unbiased | 99.764 | 99.766 | 0.0011 |
| 30 | 50 | Unbiased | 99.767 | 99.768 | 0.0002 |
| 31 | 0 | Correlation | 99.765 | 99.767 | 0.0016 |
| 32 | 0 | Correlation | 99.769 | 99.77 | 0.0007 |
| 33 | 0 | Correlation | 99.767 | 99.768 | 0.0013 |
| 34 | 0 | Correlation | 99.769 | 99.767 | -0.0021 |

## Test Statistics (%)
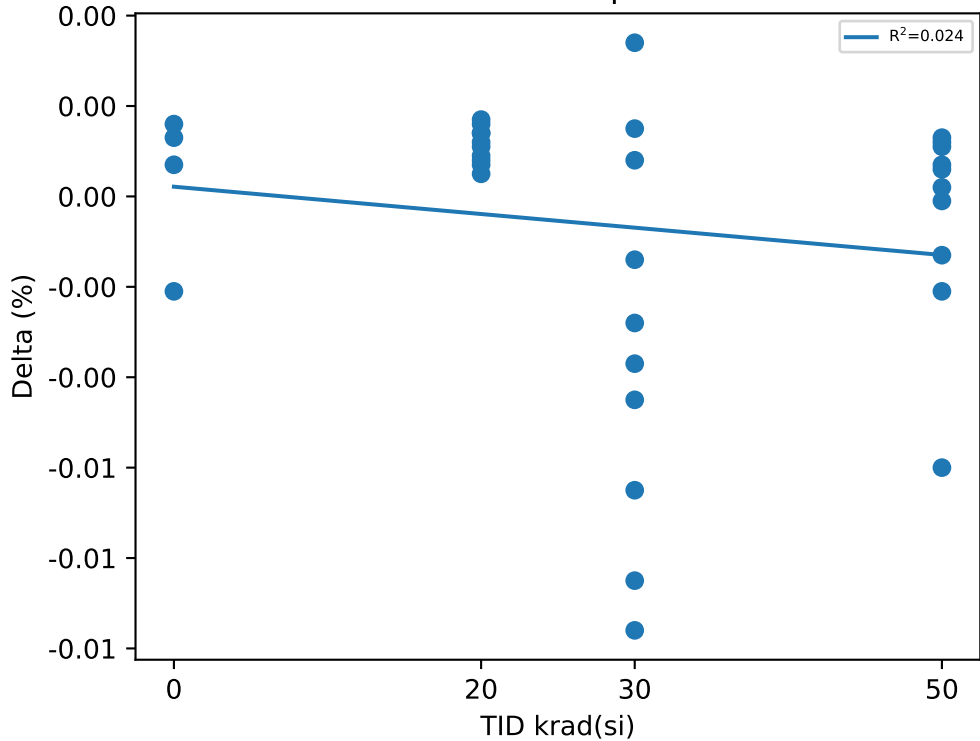
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 99.765 | 99.768 | 99.769 | 0.00168 | 99.767 | 99.768 | 99.77 | 0.0013102 | -0.0021 | 0.000375 | 0.0016 | 0.0016919 |
| 20 | 99.763 | 99.766 | 99.769 | 0.0023412 | 99.764 | 99.768 | 99.77 | 0.0021412 | 0.0005 | 0.00113 | 0.0017 | 0.00040014 |
| 30 | 99.762 | 99.767 | 99.77 | 0.0031508 | 99.76 | 99.764 | 99.768 | 0.0027026 | -0.0096 | -0.00313 | 0.0034 | 0.0043061 |
| 50 | 99.764 | 99.767 | 99.769 | 0.0014924 | 99.763 | 99.767 | 99.77 | 0.0018511 | -0.006 | -0.00044 | 0.0013 | 0.0022461 |
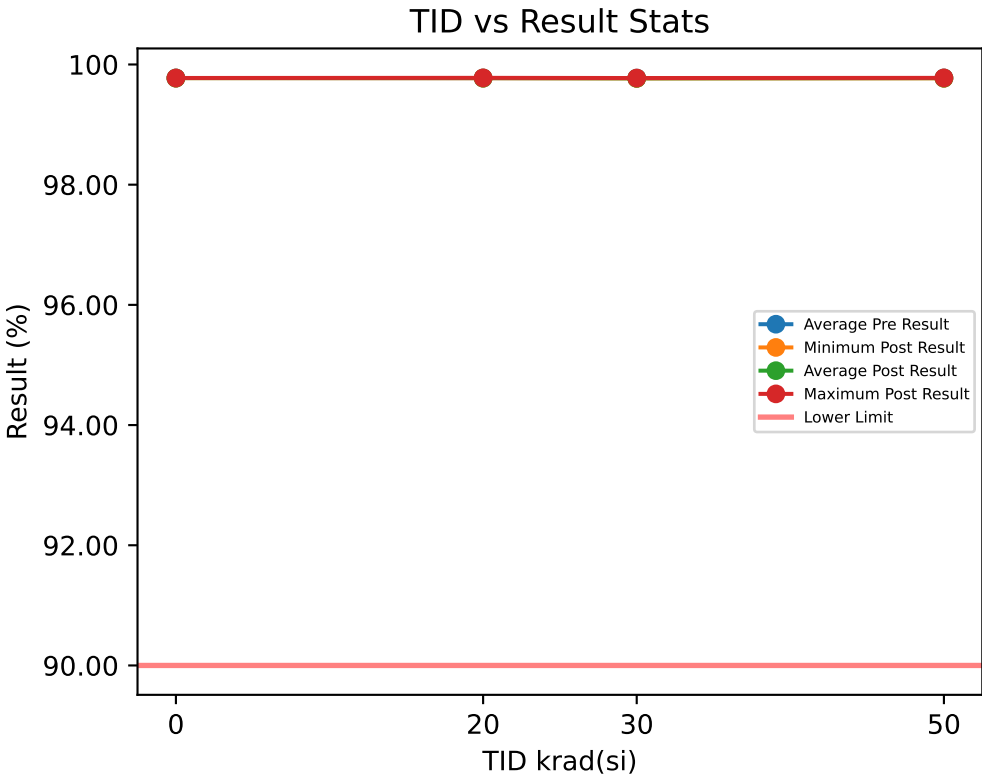
# Device Test: 15.55  VOH_PWRGD_2MA(_EVEL|VOH/PWRGD/7/14/0/0/2/@VOH_PWRGD_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 90.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.769 | 99.772 | 0.0023 |
| 2 | 20 | Bias | 99.77 | 99.772 | 0.0029 |
| 3 | 20 | Bias | 99.768 | 99.771 | 0.003 |
| 4 | 20 | Bias | 99.775 | 99.778 | 0.0025 |
| 5 | 20 | Bias | 99.775 | 99.777 | 0.002 |
| 6 | 20 | Unbiased | 99.773 | 99.776 | 0.0025 |
| 7 | 20 | Unbiased | 99.773 | 99.775 | 0.0017 |
| 8 | 20 | Unbiased | 99.773 | 99.775 | 0.0021 |
| 9 | 20 | Unbiased | 99.774 | 99.775 | 0.0013 |
| 10 | 20 | Unbiased | 99.775 | 99.776 | 0.0013 |
| 11 | 30 | Bias | 99.769 | 99.771 | 0.0015 |
| 12 | 30 | Bias | 99.77 | 99.767 | -0.0025 |
| 13 | 30 | Bias | 99.772 | 99.769 | -0.0026 |
| 14 | 30 | Bias | 99.775 | 99.771 | -0.0048 |
| 15 | 30 | Bias | 99.769 | 99.773 | 0.0037 |
| 16 | 30 | Unbiased | 99.777 | 99.768 | -0.0088 |
| 17 | 30 | Unbiased | 99.775 | 99.775 | -0.0006 |
| 18 | 30 | Unbiased | 99.775 | 99.774 | -0.0012 |
| 19 | 30 | Unbiased | 99.769 | 99.773 | 0.0037 |
| 20 | 30 | Unbiased | 99.776 | 99.768 | -0.008 |
| 21 | 50 | Bias | 99.775 | 99.774 | -0.0008 |
| 22 | 50 | Bias | 99.773 | 99.772 | -0.0009 |
| 23 | 50 | Bias | 99.775 | 99.77 | -0.0052 |
| 24 | 50 | Bias | 99.774 | 99.773 | -0.0007 |
| 25 | 50 | Bias | 99.776 | 99.777 | 0.0008 |
| 26 | 50 | Unbiased | 99.774 | 99.774 | 0.0001 |
| 27 | 50 | Unbiased | 99.776 | 99.775 | -0.0011 |
| 28 | 50 | Unbiased | 99.773 | 99.773 | -0.0002 |
| 29 | 50 | Unbiased | 99.772 | 99.772 | -0.0002 |
| 30 | 50 | Unbiased | 99.774 | 99.774 | 0.0002 |
| 31 | 0 | Correlation | 99.773 | 99.773 | 0 |
| 32 | 0 | Correlation | 99.776 | 99.775 | -0.0004 |
| 33 | 0 | Correlation | 99.775 | 99.774 | -0.0008 |
| 34 | 0 | Correlation | 99.775 | 99.772 | -0.0024 |
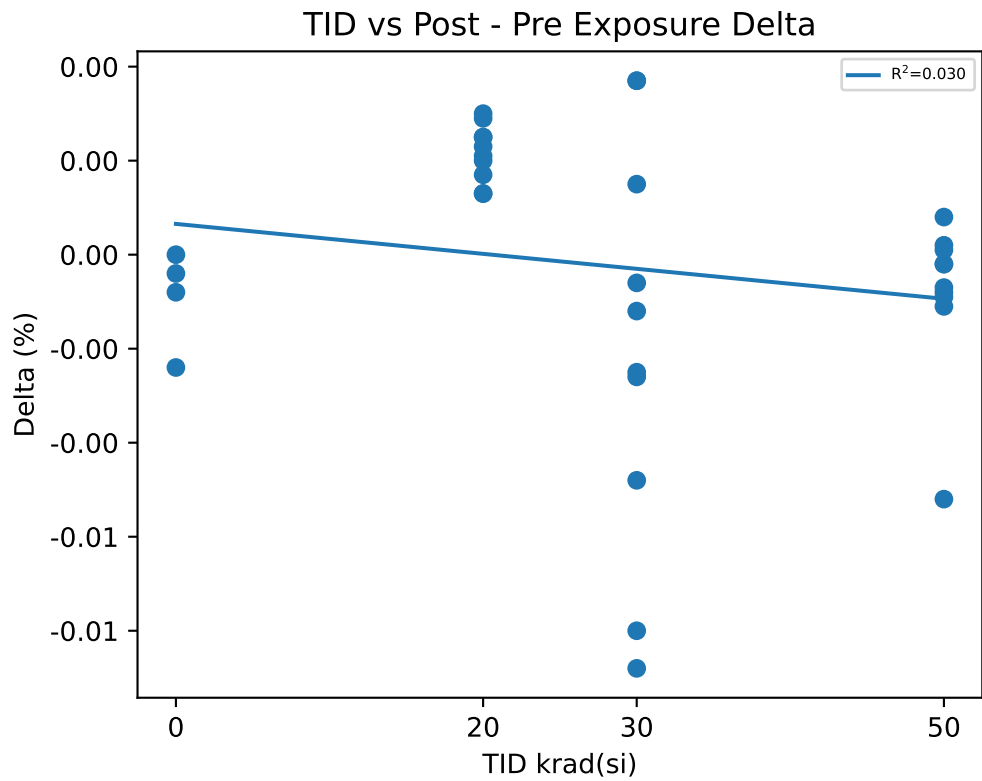
## Test Statistics (%)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.773 | 99.775 | 99.776 | 0.001258 | 99.772 | 99.774 | 99.775 | 0.0014245 | -0.0024 | -0.0009 | 0 | 0.001052 |
| 20 | 99.768 | 99.773 | 99.775 | 0.0026451 | 99.771 | 99.775 | 99.778 | 0.0023056 | 0.0013 | 0.00216 | 0.003 | 0.00059852 |
| 30 | 99.769 | 99.773 | 99.777 | 0.0030867 | 99.767 | 99.771 | 99.775 | 0.0027424 | -0.0088 | -0.00196 | 0.0037 | 0.0043526 |
| 50 | 99.772 | 99.774 | 99.776 | 0.001249 | 99.77 | 99.773 | 99.777 | 0.0019516 | -0.0052 | -0.0008 | 0.0008 | 0.0016519 |
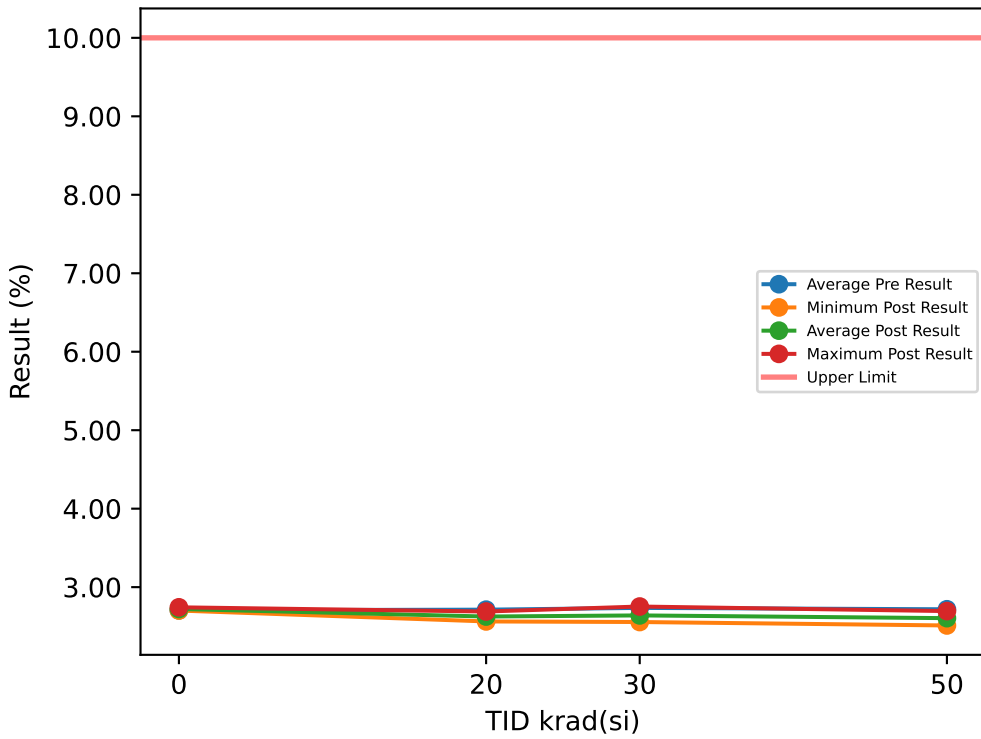
# Device Test: 15.56  VOL_EN_2MA(_EVEL|VOL/EN1/1.6/3/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.7024 | 2.5672 | -0.1352 |
| 2 | 20 | Bias | 2.7085 | 2.5789 | -0.1296 |
| 3 | 20 | Bias | 2.7403 | 2.6103 | -0.13 |
| 4 | 20 | Bias | 2.6882 | 2.5629 | -0.1253 |
| 5 | 20 | Bias | 2.7155 | 2.5894 | -0.1261 |
| 6 | 20 | Unbiased | 2.7418 | 2.6893 | -0.0525 |
| 7 | 20 | Unbiased | 2.7272 | 2.6808 | -0.0464 |
| 8 | 20 | Unbiased | 2.6618 | 2.6177 | -0.0441 |
| 9 | 20 | Unbiased | 2.7135 | 2.6694 | -0.0441 |
| 10 | 20 | Unbiased | 2.7305 | 2.6886 | -0.0419 |
| 11 | 30 | Bias | 2.7617 | 2.5776 | -0.1841 |
| 12 | 30 | Bias | 2.759 | 2.6025 | -0.1565 |
| 13 | 30 | Bias | 2.744 | 2.6047 | -0.1393 |
| 14 | 30 | Bias | 2.712 | 2.5893 | -0.1227 |
| 15 | 30 | Bias | 2.8018 | 2.5555 | -0.2463 |
| 16 | 30 | Unbiased | 2.7124 | 2.753 | 0.0406 |
| 17 | 30 | Unbiased | 2.6893 | 2.6654 | -0.0239 |
| 18 | 30 | Unbiased | 2.7128 | 2.6492 | -0.0636 |
| 19 | 30 | Unbiased | 2.7717 | 2.672 | -0.0997 |
| 20 | 30 | Unbiased | 2.6886 | 2.7288 | 0.0402 |
| 21 | 50 | Bias | 2.7163 | 2.5319 | -0.1844 |
| 22 | 50 | Bias | 2.7229 | 2.5471 | -0.1758 |
| 23 | 50 | Bias | 2.7264 | 2.5567 | -0.1697 |
| 24 | 50 | Bias | 2.7133 | 2.5584 | -0.1549 |
| 25 | 50 | Bias | 2.6891 | 2.5117 | -0.1774 |
| 26 | 50 | Unbiased | 2.6968 | 2.6456 | -0.0512 |
| 27 | 50 | Unbiased | 2.6979 | 2.6474 | -0.0505 |
| 28 | 50 | Unbiased | 2.7483 | 2.6901 | -0.0582 |
| 29 | 50 | Unbiased | 2.7498 | 2.6948 | -0.055 |
| 30 | 50 | Unbiased | 2.718 | 2.6638 | -0.0542 |
| 31 | 0 | Correlation | 2.7397 | 2.743 | 0.0033 |
| 32 | 0 | Correlation | 2.6989 | 2.7018 | 0.0029 |
| 33 | 0 | Correlation | 2.7079 | 2.7098 | 0.0019 |
| 34 | 0 | Correlation | 2.6739 | 2.7315 | 0.0576 |

## Test Statistics (%)
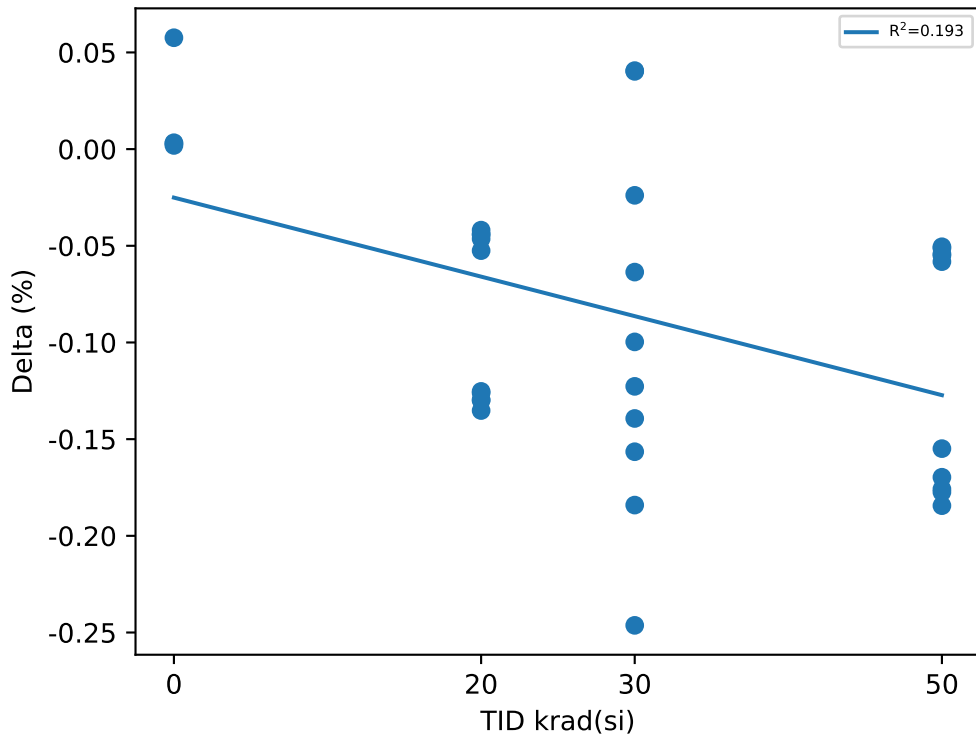
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.6739 | 2.7051 | 2.7397 | 0.027184 | 2.7018 | 2.7215 | 2.743 | 0.019037 | 0.0019 | 0.016425 | 0.0576 | 0.027456 |
| 20 | 2.6618 | 2.713 | 2.7418 | 0.024627 | 2.5629 | 2.6254 | 2.6893 | 0.05177 | -0.1352 | -0.08752 | -0.0419 | 0.044138 |
| 30 | 2.6886 | 2.7353 | 2.8018 | 0.037936 | 2.5555 | 2.6398 | 2.753 | 0.065544 | -0.2463 | -0.09553 | 0.0406 | 0.094322 |
| 50 | 2.6891 | 2.7179 | 2.7498 | 0.020378 | 2.5117 | 2.6048 | 2.6948 | 0.070011 | -0.1844 | -0.11313 | -0.0505 | 0.06299 |
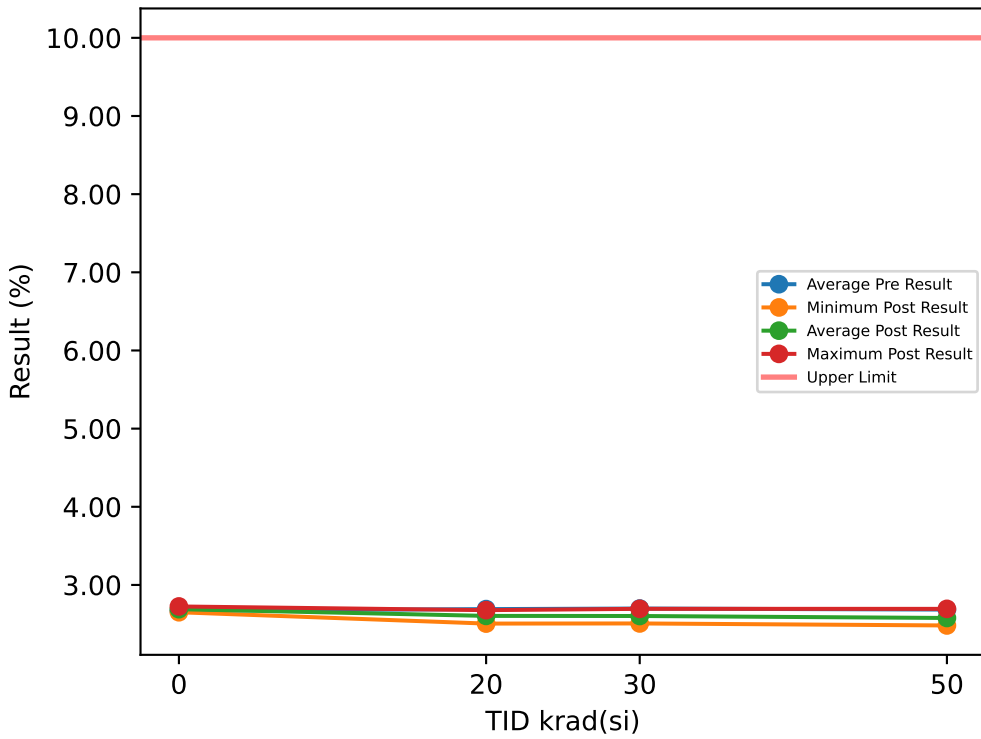
# Device Test: 15.57  VOL_EN_2MA(_EVEL|VOL/EN2/1.6/3/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.7065 | 2.5685 | -0.138 |
| 2 | 20 | Bias | 2.7112 | 2.5777 | -0.1335 |
| 3 | 20 | Bias | 2.746 | 2.615 | -0.131 |
| 4 | 20 | Bias | 2.6289 | 2.5057 | -0.1232 |
| 5 | 20 | Bias | 2.6747 | 2.5529 | -0.1218 |
| 6 | 20 | Unbiased | 2.7165 | 2.6648 | -0.0517 |
| 7 | 20 | Unbiased | 2.7042 | 2.6634 | -0.0408 |
| 8 | 20 | Unbiased | 2.7243 | 2.6775 | -0.0468 |
| 9 | 20 | Unbiased | 2.6529 | 2.613 | -0.0399 |
| 10 | 20 | Unbiased | 2.6435 | 2.6019 | -0.0416 |
| 11 | 30 | Bias | 2.7411 | 2.5736 | -0.1675 |
| 12 | 30 | Bias | 2.7631 | 2.5798 | -0.1833 |
| 13 | 30 | Bias | 2.7405 | 2.606 | -0.1345 |
| 14 | 30 | Bias | 2.6579 | 2.5828 | -0.0751 |
| 15 | 30 | Bias | 2.7438 | 2.5074 | -0.2364 |
| 16 | 30 | Unbiased | 2.6532 | 2.6944 | 0.0412 |
| 17 | 30 | Unbiased | 2.6406 | 2.6068 | -0.0338 |
| 18 | 30 | Unbiased | 2.6542 | 2.5982 | -0.056 |
| 19 | 30 | Unbiased | 2.7044 | 2.615 | -0.0894 |
| 20 | 30 | Unbiased | 2.6825 | 2.6633 | -0.0192 |
| 21 | 50 | Bias | 2.6886 | 2.5205 | -0.1681 |
| 22 | 50 | Bias | 2.6905 | 2.5227 | -0.1678 |
| 23 | 50 | Bias | 2.6515 | 2.5272 | -0.1243 |
| 24 | 50 | Bias | 2.6659 | 2.4911 | -0.1748 |
| 25 | 50 | Bias | 2.6595 | 2.4817 | -0.1778 |
| 26 | 50 | Unbiased | 2.678 | 2.6292 | -0.0488 |
| 27 | 50 | Unbiased | 2.6839 | 2.6304 | -0.0535 |
| 28 | 50 | Unbiased | 2.6644 | 2.6138 | -0.0506 |
| 29 | 50 | Unbiased | 2.7485 | 2.694 | -0.0545 |
| 30 | 50 | Unbiased | 2.7173 | 2.664 | -0.0533 |
| 31 | 0 | Correlation | 2.6652 | 2.6693 | 0.0041 |
| 32 | 0 | Correlation | 2.646 | 2.6507 | 0.0047 |
| 33 | 0 | Correlation | 2.7102 | 2.7149 | 0.0047 |
| 34 | 0 | Correlation | 2.6605 | 2.7249 | 0.0644 |

## Test Statistics (%)
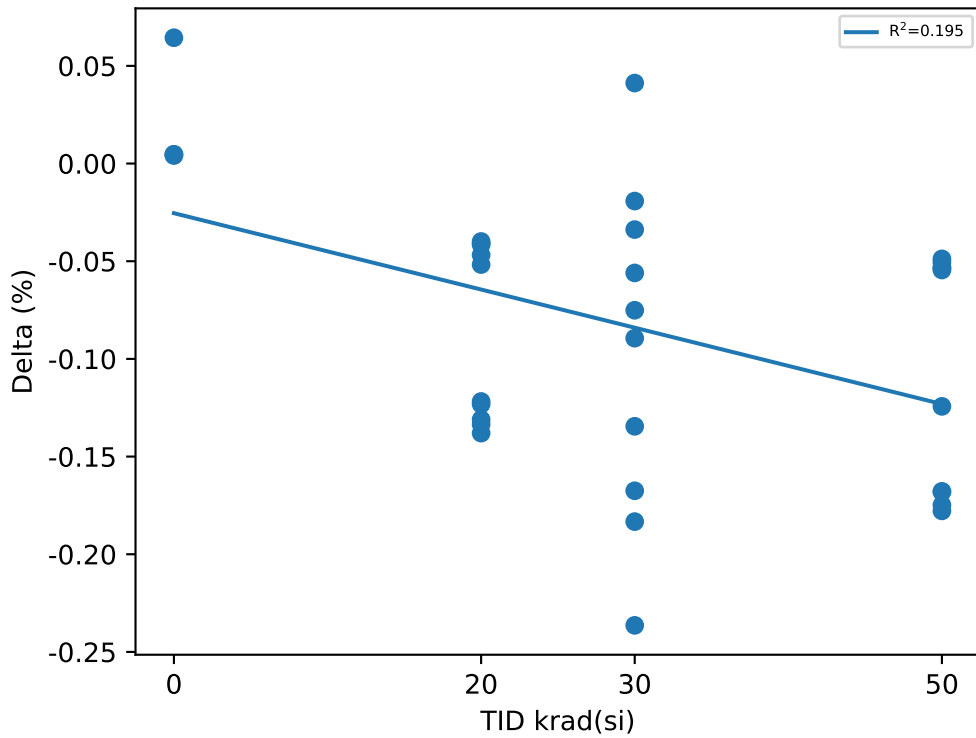
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.646 | 2.6705 | 2.7102 | 0.027715 | 2.6507 | 2.69 | 2.7249 | 0.035642 | 0.0041 | 0.019475 | 0.0644 | 0.029951 |
| 20 | 2.6289 | 2.6909 | 2.746 | 0.038639 | 2.5057 | 2.604 | 2.6775 | 0.054833 | -0.138 | -0.08683 | -0.0399 | 0.045334 |
| 30 | 2.6406 | 2.6981 | 2.7631 | 0.046078 | 2.5074 | 2.6027 | 2.6944 | 0.050695 | -0.2364 | -0.0954 | 0.0412 | 0.084719 |
| 50 | 2.6515 | 2.6848 | 2.7485 | 0.029307 | 2.4817 | 2.5775 | 2.694 | 0.076933 | -0.1778 | -0.10735 | -0.0488 | 0.060007 |
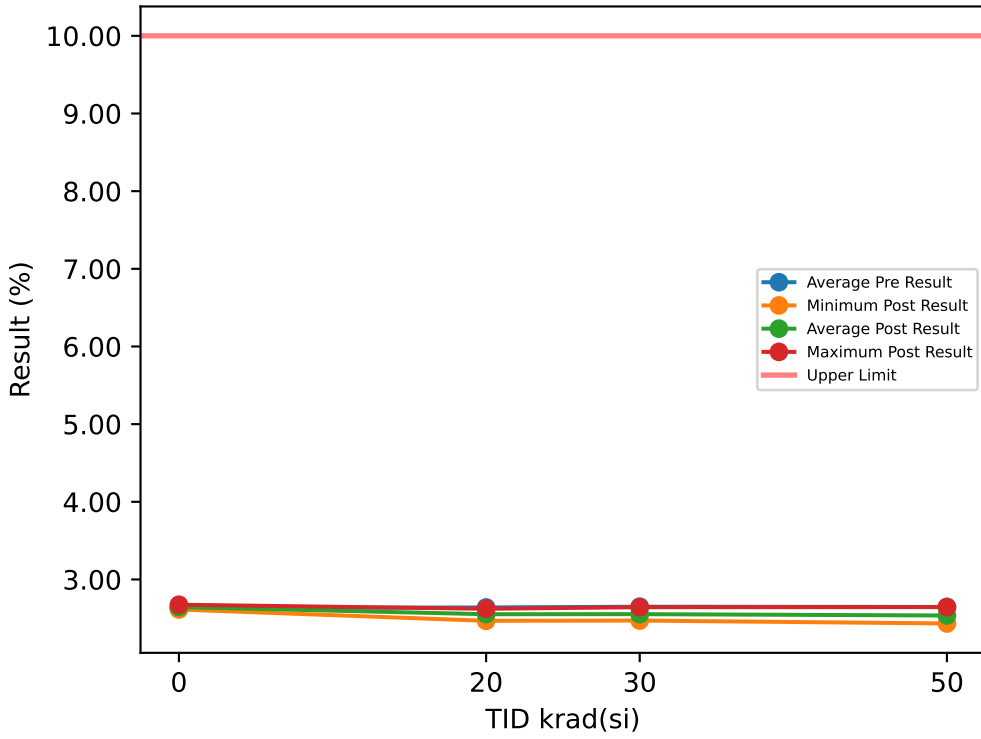
# Device Test: 15.58  VOL_EN_2MA(_EVEL|VOL/EN3/1.6/3/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.6564 | 2.518 | -0.1384 |
| 2 | 20 | Bias | 2.6708 | 2.5348 | -0.136 |
| 3 | 20 | Bias | 2.689 | 2.5584 | -0.1306 |
| 4 | 20 | Bias | 2.5889 | 2.4675 | -0.1214 |
| 5 | 20 | Bias | 2.6207 | 2.5005 | -0.1202 |
| 6 | 20 | Unbiased | 2.6566 | 2.6041 | -0.0525 |
| 7 | 20 | Unbiased | 2.6439 | 2.6021 | -0.0418 |
| 8 | 20 | Unbiased | 2.6683 | 2.6224 | -0.0459 |
| 9 | 20 | Unbiased | 2.606 | 2.5631 | -0.0429 |
| 10 | 20 | Unbiased | 2.5941 | 2.5543 | -0.0398 |
| 11 | 30 | Bias | 2.696 | 2.5217 | -0.1743 |
| 12 | 30 | Bias | 2.7048 | 2.5371 | -0.1677 |
| 13 | 30 | Bias | 2.6827 | 2.5521 | -0.1306 |
| 14 | 30 | Bias | 2.6209 | 2.5263 | -0.0946 |
| 15 | 30 | Bias | 2.6911 | 2.4709 | -0.2202 |
| 16 | 30 | Unbiased | 2.6043 | 2.6427 | 0.0384 |
| 17 | 30 | Unbiased | 2.5939 | 2.5576 | -0.0363 |
| 18 | 30 | Unbiased | 2.6029 | 2.5525 | -0.0504 |
| 19 | 30 | Unbiased | 2.6492 | 2.5621 | -0.0871 |
| 20 | 30 | Unbiased | 2.6459 | 2.6099 | -0.036 |
| 21 | 50 | Bias | 2.6554 | 2.4824 | -0.173 |
| 22 | 50 | Bias | 2.6546 | 2.4842 | -0.1704 |
| 23 | 50 | Bias | 2.6055 | 2.4902 | -0.1153 |
| 24 | 50 | Bias | 2.642 | 2.443 | -0.199 |
| 25 | 50 | Bias | 2.6115 | 2.4335 | -0.178 |
| 26 | 50 | Unbiased | 2.6443 | 2.5951 | -0.0492 |
| 27 | 50 | Unbiased | 2.6593 | 2.6047 | -0.0546 |
| 28 | 50 | Unbiased | 2.6285 | 2.5754 | -0.0531 |
| 29 | 50 | Unbiased | 2.7003 | 2.6443 | -0.056 |
| 30 | 50 | Unbiased | 2.6587 | 2.6066 | -0.0521 |
| 31 | 0 | Correlation | 2.6209 | 2.6244 | 0.0035 |
| 32 | 0 | Correlation | 2.6119 | 2.6135 | 0.0016 |
| 33 | 0 | Correlation | 2.6646 | 2.6654 | 0.0008 |
| 34 | 0 | Correlation | 2.6314 | 2.6749 | 0.0435 |

## Test Statistics (%)
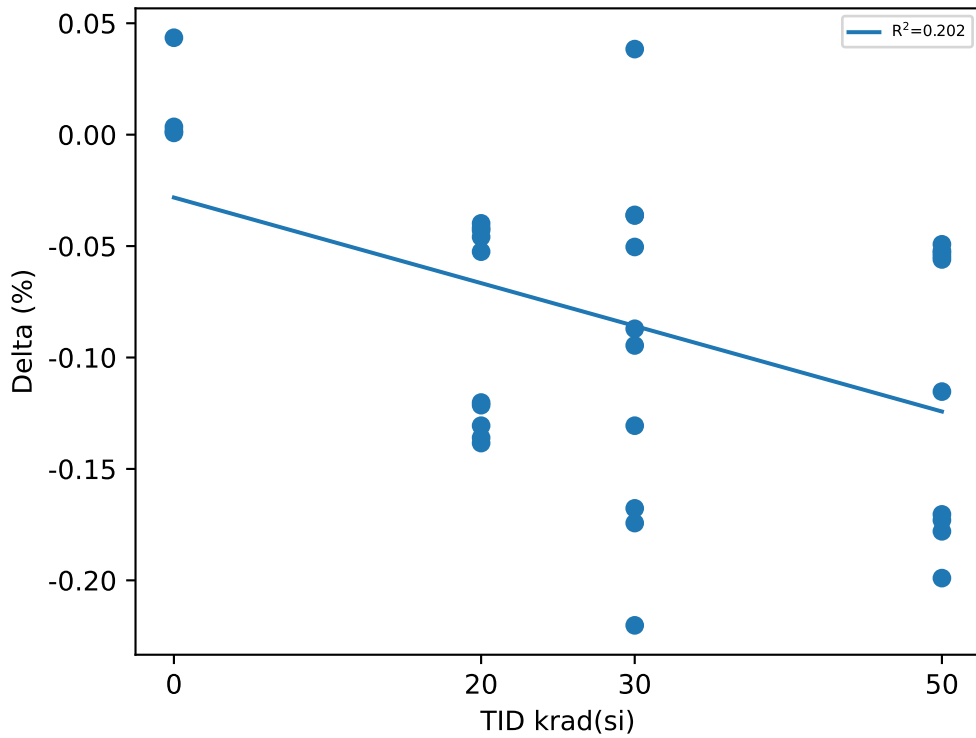
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.6119 | 2.6322 | 2.6646 | 0.023023 | 2.6135 | 2.6446 | 2.6749 | 0.030144 | 0.0008 | 0.01235 | 0.0435 | 0.020798 |
| 20 | 2.5889 | 2.6395 | 2.689 | 0.034887 | 2.4675 | 2.5525 | 2.6224 | 0.04898 | -0.1384 | -0.08695 | -0.0398 | 0.045123 |
| 30 | 2.5939 | 2.6492 | 2.7048 | 0.042412 | 2.4709 | 2.5533 | 2.6427 | 0.047227 | -0.2202 | -0.09588 | 0.0384 | 0.078374 |
| 50 | 2.6055 | 2.646 | 2.7003 | 0.02709 | 2.4335 | 2.5359 | 2.6443 | 0.076947 | -0.199 | -0.11007 | -0.0492 | 0.06365 |
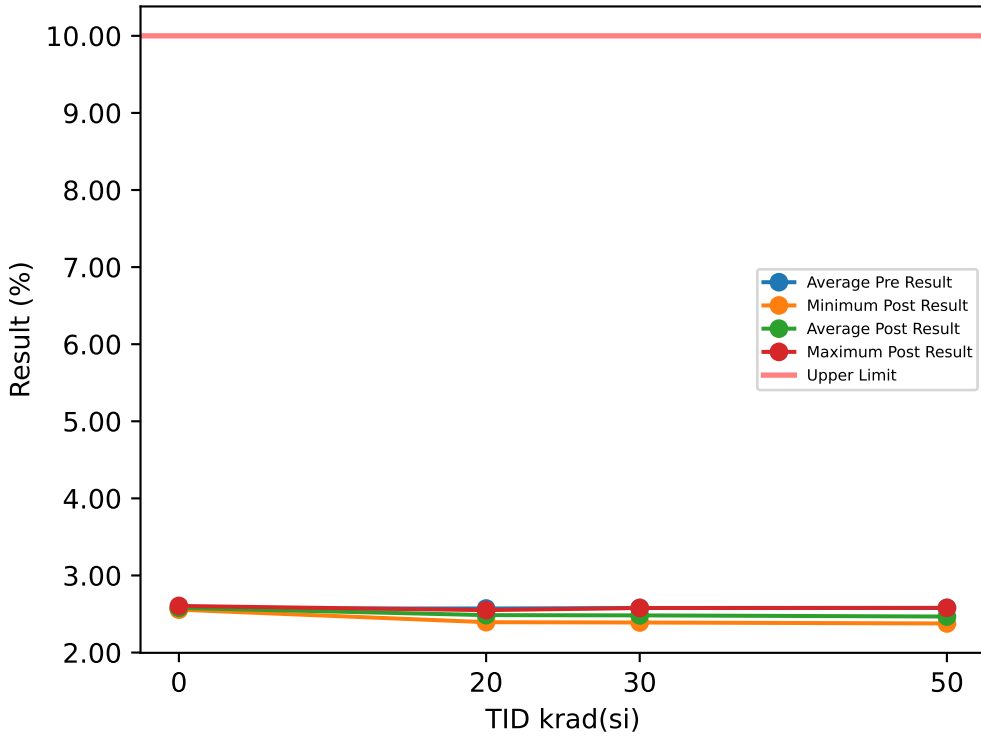
# Device Test: 15.59  VOL_EN_2MA(_EVEL|VOL/EN4/1.6/3/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.5858 | 2.4515 | -0.1343 |
| 2 | 20 | Bias | 2.5953 | 2.4611 | -0.1342 |
| 3 | 20 | Bias | 2.6147 | 2.4851 | -0.1296 |
| 4 | 20 | Bias | 2.5141 | 2.3941 | -0.12 |
| 5 | 20 | Bias | 2.567 | 2.4472 | -0.1198 |
| 6 | 20 | Unbiased | 2.5991 | 2.5503 | -0.0488 |
| 7 | 20 | Unbiased | 2.5856 | 2.5423 | -0.0433 |
| 8 | 20 | Unbiased | 2.5879 | 2.5419 | -0.046 |
| 9 | 20 | Unbiased | 2.5372 | 2.4937 | -0.0435 |
| 10 | 20 | Unbiased | 2.5276 | 2.488 | -0.0396 |
| 11 | 30 | Bias | 2.6276 | 2.4468 | -0.1808 |
| 12 | 30 | Bias | 2.6356 | 2.4694 | -0.1662 |
| 13 | 30 | Bias | 2.6174 | 2.4841 | -0.1333 |
| 14 | 30 | Bias | 2.5362 | 2.4595 | -0.0767 |
| 15 | 30 | Bias | 2.6258 | 2.3898 | -0.236 |
| 16 | 30 | Unbiased | 2.5327 | 2.5781 | 0.0454 |
| 17 | 30 | Unbiased | 2.5145 | 2.4894 | -0.0251 |
| 18 | 30 | Unbiased | 2.5253 | 2.473 | -0.0523 |
| 19 | 30 | Unbiased | 2.5858 | 2.487 | -0.0988 |
| 20 | 30 | Unbiased | 2.5754 | 2.5448 | -0.0306 |
| 21 | 50 | Bias | 2.5856 | 2.4121 | -0.1735 |
| 22 | 50 | Bias | 2.5852 | 2.4205 | -0.1647 |
| 23 | 50 | Bias | 2.5384 | 2.4177 | -0.1207 |
| 24 | 50 | Bias | 2.5766 | 2.3775 | -0.1991 |
| 25 | 50 | Bias | 2.5604 | 2.3836 | -0.1768 |
| 26 | 50 | Unbiased | 2.5661 | 2.5177 | -0.0484 |
| 27 | 50 | Unbiased | 2.5749 | 2.5198 | -0.0551 |
| 28 | 50 | Unbiased | 2.5674 | 2.511 | -0.0564 |
| 29 | 50 | Unbiased | 2.6383 | 2.5799 | -0.0584 |
| 30 | 50 | Unbiased | 2.5866 | 2.5323 | -0.0543 |
| 31 | 0 | Correlation | 2.5544 | 2.5563 | 0.0019 |
| 32 | 0 | Correlation | 2.5594 | 2.5565 | -0.0029 |
| 33 | 0 | Correlation | 2.6024 | 2.6047 | 0.0023 |
| 34 | 0 | Correlation | 2.5663 | 2.6004 | 0.0341 |

## Test Statistics (%)
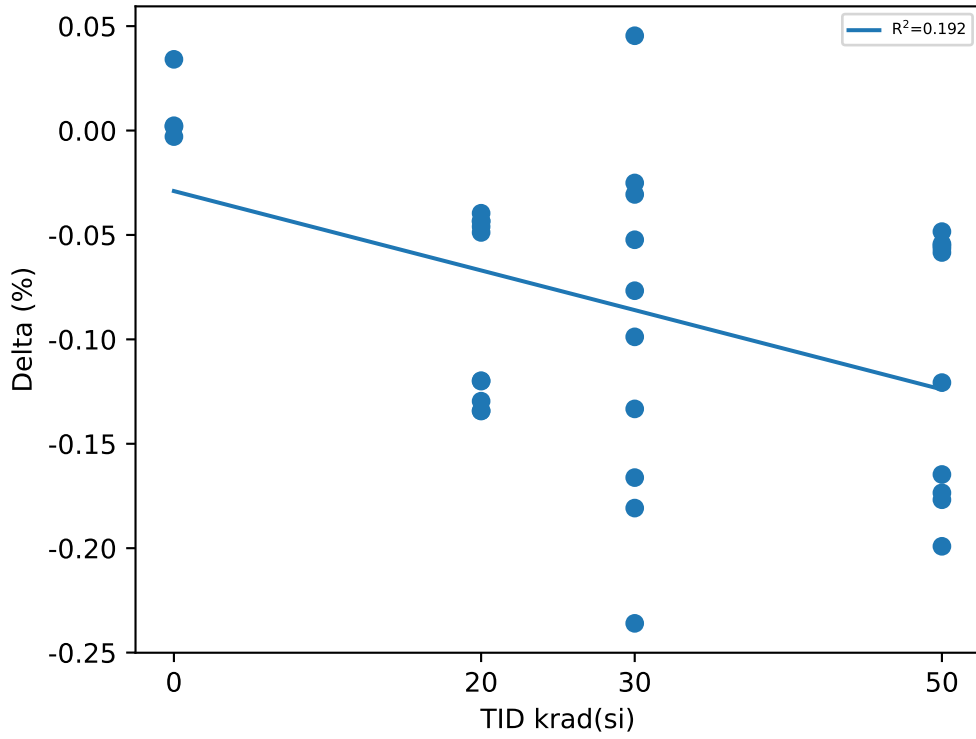
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.5544 | 2.5706 | 2.6024 | 0.021738 | 2.5563 | 2.5795 | 2.6047 | 0.026703 | -0.0029 | 0.00885 | 0.0341 | 0.016998 |
| 20 | 2.5141 | 2.5714 | 2.6147 | 0.033806 | 2.3941 | 2.4855 | 2.5503 | 0.049724 | -0.1343 | -0.08591 | -0.0396 | 0.044249 |
| 30 | 2.5145 | 2.5776 | 2.6356 | 0.047481 | 2.3898 | 2.4822 | 2.5781 | 0.051369 | -0.236 | -0.09544 | 0.0454 | 0.084784 |
| 50 | 2.5384 | 2.5779 | 2.6383 | 0.02574 | 2.3775 | 2.4672 | 2.5799 | 0.07217 | -0.1991 | -0.11074 | -0.0484 | 0.062344 |

## Device Test: 15.6   VLDO_DO(_LDO|VDO_VLDO/VLDO//3/0/0/0/@VLDO_DO )

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta
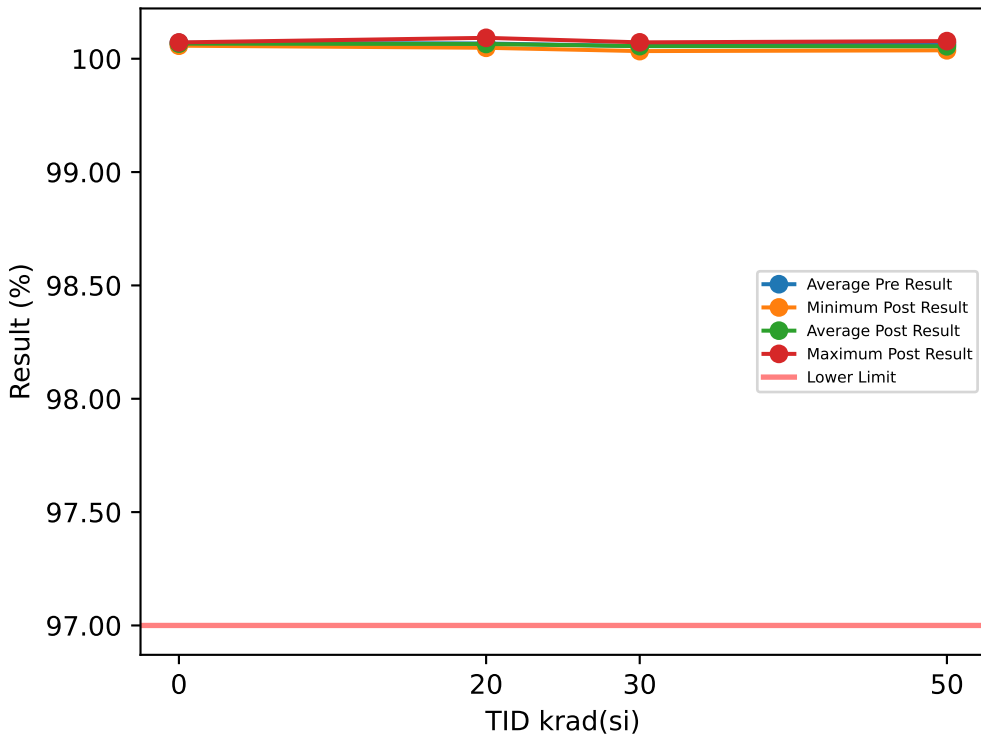


### Test Results (Lower Limit = 97.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.567 | 99.569 | 0.0029 |
| 2 | 20 | Bias | 99.57 | 99.567 | -0.0031 |
| 3 | 20 | Bias | 99.565 | 99.559 | -0.0054 |
| 4 | 20 | Bias | 99.592 | 99.592 | -0.0001 |
| 5 | 20 | Bias | 99.556 | 99.559 | 0.0032 |
| 6 | 20 | Unbiased | 99.561 | 99.562 | 0.0012 |
| 7 | 20 | Unbiased | 99.558 | 99.548 | -0.0096 |
| 8 | 20 | Unbiased | 99.58 | 99.578 | -0.0016 |
| 9 | 20 | Unbiased | 99.563 | 99.556 | -0.0068 |
| 10 | 20 | Unbiased | 99.563 | 99.56 | -0.0031 |
| 11 | 30 | Bias | 99.56 | 99.572 | 0.0122 |
| 12 | 30 | Bias | 99.547 | 99.564 | 0.0174 |
| 13 | 30 | Bias | 99.561 | 99.542 | -0.0183 |
| 14 | 30 | Bias | 99.564 | 99.561 | -0.0032 |
| 15 | 30 | Bias | 99.535 | 99.562 | 0.0262 |
| 16 | 30 | Unbiased | 99.573 | 99.534 | -0.0393 |
| 17 | 30 | Unbiased | 99.544 | 99.571 | 0.0265 |
| 18 | 30 | Unbiased | 99.565 | 99.543 | -0.0228 |
| 19 | 30 | Unbiased | 99.551 | 99.557 | 0.0055 |
| 20 | 30 | Unbiased | 99.557 | 99.55 | -0.0071 |
| 21 | 50 | Bias | 99.57 | 99.555 | -0.0153 |
| 22 | 50 | Bias | 99.577 | 99.565 | -0.0123 |
| 23 | 50 | Bias | 99.555 | 99.578 | 0.0226 |
| 24 | 50 | Bias | 99.564 | 99.549 | -0.0143 |
| 25 | 50 | Bias | 99.566 | 99.552 | -0.0131 |
| 26 | 50 | Unbiased | 99.56 | 99.54 | -0.0201 |
| 27 | 50 | Unbiased | 99.582 | 99.565 | -0.017 |
| 28 | 50 | Unbiased | 99.56 | 99.544 | -0.0154 |
| 29 | 50 | Unbiased | 99.562 | 99.537 | -0.0252 |
| 30 | 50 | Unbiased | 99.574 | 99.562 | -0.0116 |
| 31 | 0 | Correlation | 99.566 | 99.558 | -0.0085 |
| 32 | 0 | Correlation | 99.578 | 99.572 | -0.0061 |
| 33 | 0 | Correlation | 99.573 | 99.566 | -0.0063 |
| 34 | 0 | Correlation | 99.565 | 99.571 | 0.0061 |

### Test Statistics (%)
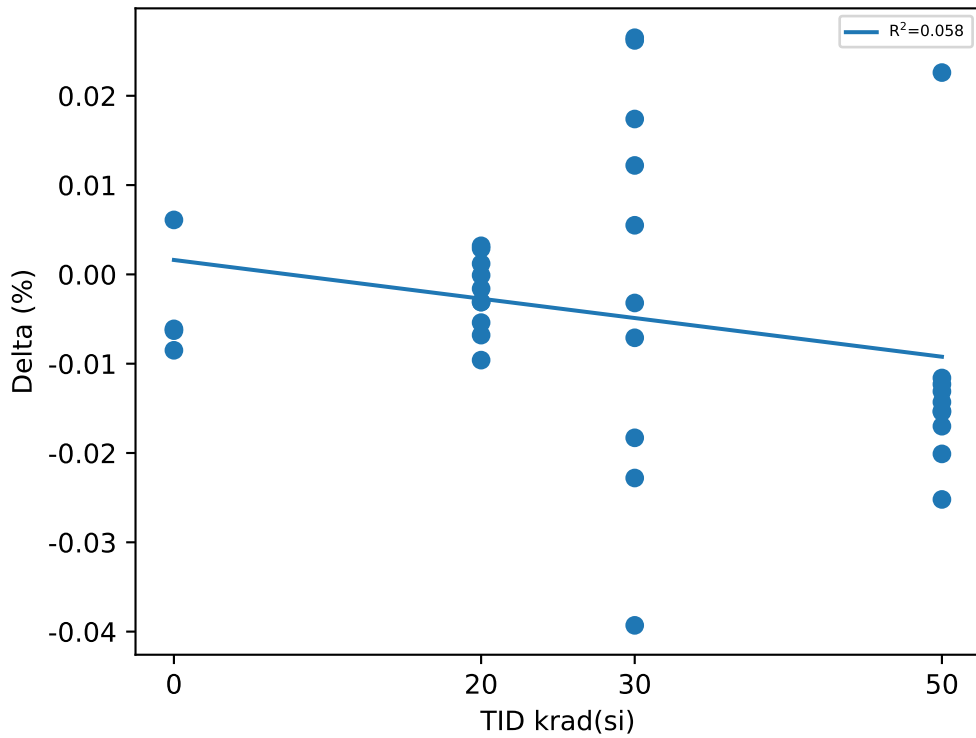
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.565 | 99.57 | 99.578 | 0.0061755 | 99.558 | 99.567 | 99.572 | 0.0065982 | -0.0085 | -0.0037 | 0.0061 | 0.0066232 |
| 20 | 99.556 | 99.567 | 99.592 | 0.01097 | 99.548 | 99.565 | 99.592 | 0.012447 | -0.0096 | -0.00224 | 0.0032 | 0.0042067 |
| 30 | 99.535 | 99.556 | 99.573 | 0.011273 | 99.534 | 99.556 | 99.572 | 0.013022 | -0.0393 | -0.00029 | 0.0265 | 0.021933 |
| 50 | 99.555 | 99.567 | 99.582 | 0.0086123 | 99.537 | 99.555 | 99.578 | 0.012737 | -0.0252 | -0.01217 | 0.0226 | 0.012871 |
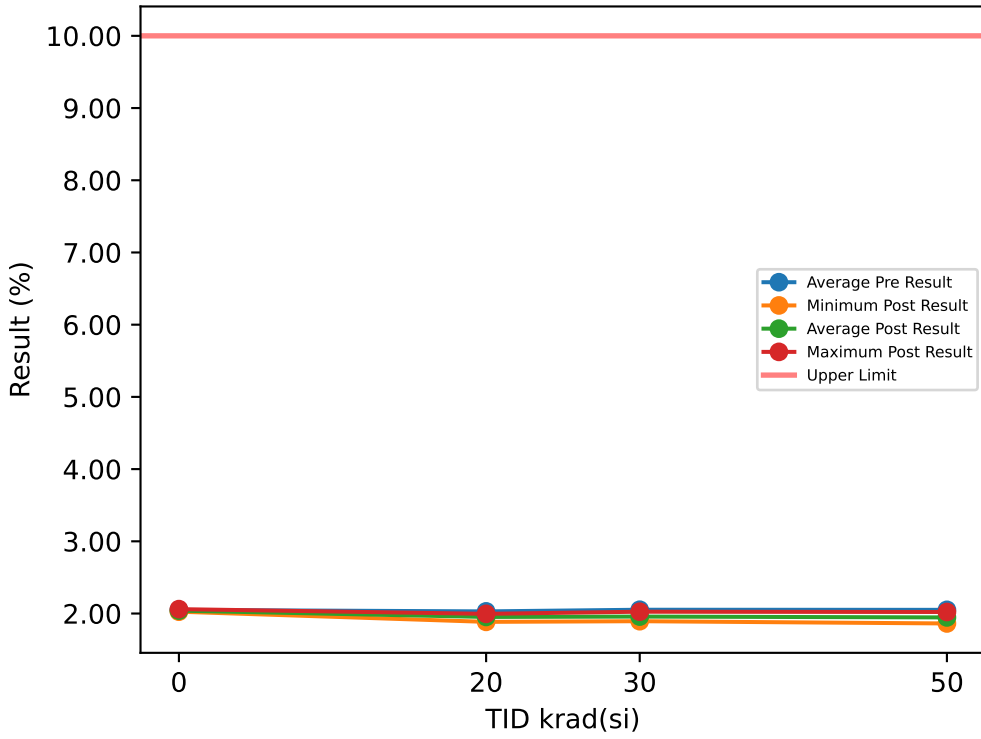
# Device Test: 15.60  VOL_SEQ_DONE_2MA(_EVEL|VOL/SEQ_DONE/1.6/3/0/0/2/@VOL_SEQ_DONE_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.0426 | 1.9204 | -0.1222 |
| 2 | 20 | Bias | 2.0486 | 1.9315 | -0.1171 |
| 3 | 20 | Bias | 2.0845 | 1.9655 | -0.119 |
| 4 | 20 | Bias | 2.0018 | 1.8846 | -0.1172 |
| 5 | 20 | Bias | 2.0109 | 1.9061 | -0.1048 |
| 6 | 20 | Unbiased | 2.0391 | 1.9957 | -0.0434 |
| 7 | 20 | Unbiased | 2.0248 | 1.9897 | -0.0351 |
| 8 | 20 | Unbiased | 2.0266 | 1.9875 | -0.0391 |
| 9 | 20 | Unbiased | 2.0063 | 1.9707 | -0.0356 |
| 10 | 20 | Unbiased | 2.0121 | 1.9748 | -0.0373 |
| 11 | 30 | Bias | 2.0695 | 1.9011 | -0.1684 |
| 12 | 30 | Bias | 2.0843 | 1.9226 | -0.1617 |
| 13 | 30 | Bias | 2.0578 | 1.9392 | -0.1186 |
| 14 | 30 | Bias | 2.0363 | 1.9109 | -0.1254 |
| 15 | 30 | Bias | 2.0638 | 1.8937 | -0.1701 |
| 16 | 30 | Unbiased | 2.0232 | 2.025 | 0.0018 |
| 17 | 30 | Unbiased | 2.026 | 1.9843 | -0.0417 |
| 18 | 30 | Unbiased | 2.049 | 1.9876 | -0.0614 |
| 19 | 30 | Unbiased | 2.0357 | 2.0118 | -0.0239 |
| 20 | 30 | Unbiased | 2.0791 | 2.001 | -0.0781 |
| 21 | 50 | Bias | 2.066 | 1.9175 | -0.1485 |
| 22 | 50 | Bias | 2.0525 | 1.9029 | -0.1496 |
| 23 | 50 | Bias | 2.0195 | 1.8925 | -0.127 |
| 24 | 50 | Bias | 2.0422 | 1.8625 | -0.1797 |
| 25 | 50 | Bias | 2.04 | 1.8657 | -0.1743 |
| 26 | 50 | Unbiased | 2.0728 | 2.0213 | -0.0515 |
| 27 | 50 | Unbiased | 2.058 | 2.0024 | -0.0556 |
| 28 | 50 | Unbiased | 2.0191 | 1.9688 | -0.0503 |
| 29 | 50 | Unbiased | 2.0787 | 2.0213 | -0.0574 |
| 30 | 50 | Unbiased | 2.0615 | 2.0057 | -0.0558 |
| 31 | 0 | Correlation | 2.0244 | 2.0254 | 0.001 |
| 32 | 0 | Correlation | 2.0359 | 2.0299 | -0.006 |
| 33 | 0 | Correlation | 2.0603 | 2.0609 | 0.0006 |
| 34 | 0 | Correlation | 2.0775 | 2.0433 | -0.0342 |

## Test Statistics (%)
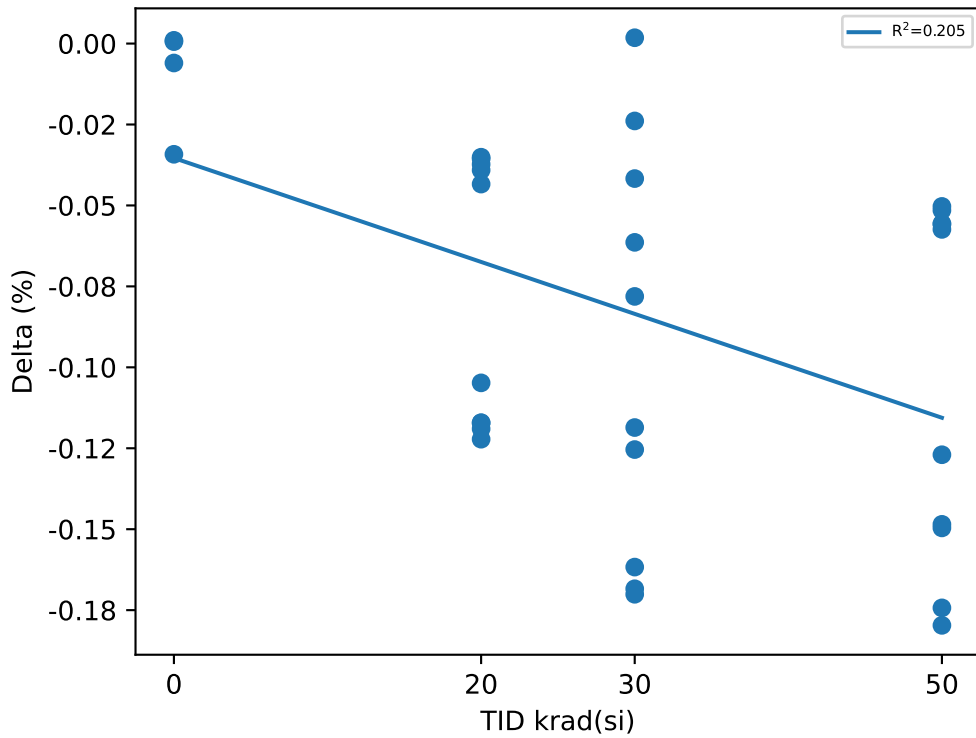
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.0244 | 2.0495 | 2.0775 | 0.023914 | 2.0254 | 2.0399 | 2.0609 | 0.015946 | -0.0342 | -0.00965 | 0.001 | 0.016678 |
| 20 | 2.0018 | 2.0297 | 2.0845 | 0.025028 | 1.8846 | 1.9526 | 1.9957 | 0.039026 | -0.1222 | -0.07708 | -0.0351 | 0.041386 |
| 30 | 2.0232 | 2.0525 | 2.0843 | 0.02181 | 1.8937 | 1.9577 | 2.025 | 0.049438 | -0.1701 | -0.09475 | 0.0018 | 0.062927 |
| 50 | 2.0191 | 2.051 | 2.0787 | 0.020649 | 1.8625 | 1.9461 | 2.0213 | 0.064599 | -0.1797 | -0.10497 | -0.0503 | 0.055507 |
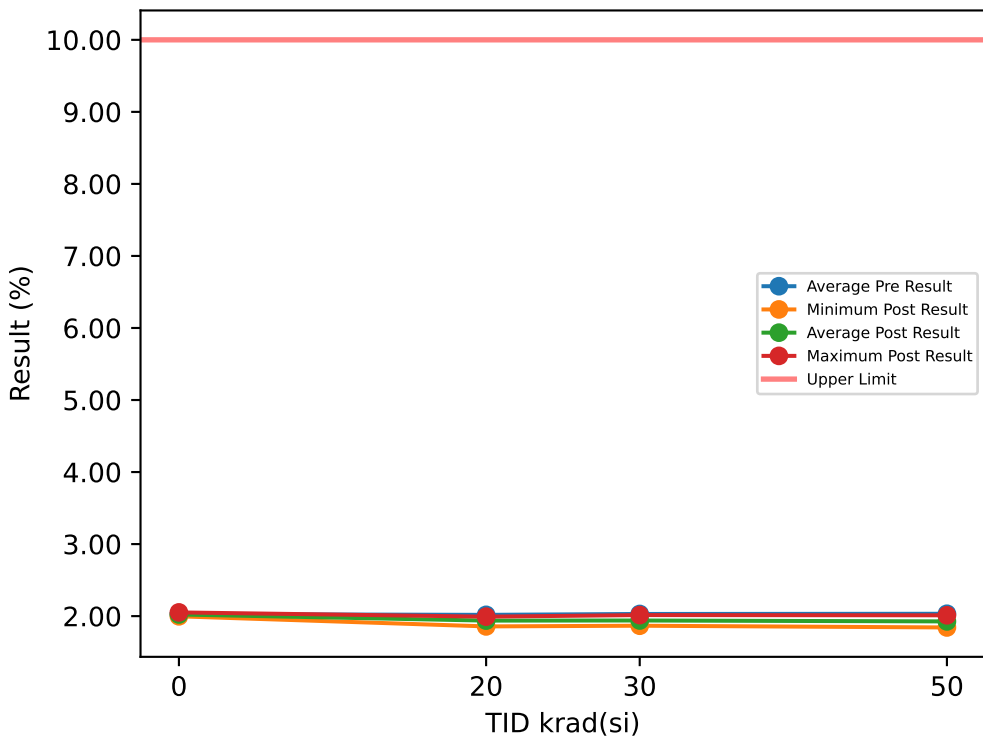
# Device Test: 15.61  VOL_PWRGD_2MA(_EVEL|VOL/PWRGD/1.6/3/0/0/2/@VOL_PWRGD_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.037 | 1.9083 | -0.1287 |
| 2 | 20 | Bias | 2.042 | 1.9196 | -0.1224 |
| 3 | 20 | Bias | 2.0608 | 1.9388 | -0.122 |
| 4 | 20 | Bias | 1.971 | 1.8573 | -0.1137 |
| 5 | 20 | Bias | 2.0141 | 1.9048 | -0.1093 |
| 6 | 20 | Unbiased | 2.0356 | 1.9926 | -0.043 |
| 7 | 20 | Unbiased | 2.0309 | 1.9883 | -0.0426 |
| 8 | 20 | Unbiased | 2.0243 | 1.9809 | -0.0434 |
| 9 | 20 | Unbiased | 1.986 | 1.9446 | -0.0414 |
| 10 | 20 | Unbiased | 1.9753 | 1.9427 | -0.0326 |
| 11 | 30 | Bias | 2.0487 | 1.8959 | -0.1528 |
| 12 | 30 | Bias | 2.0738 | 1.9031 | -0.1707 |
| 13 | 30 | Bias | 2.0557 | 1.9316 | -0.1241 |
| 14 | 30 | Bias | 2.0038 | 1.9125 | -0.0913 |
| 15 | 30 | Bias | 2.052 | 1.8668 | -0.1852 |
| 16 | 30 | Unbiased | 1.9839 | 2.0144 | 0.0305 |
| 17 | 30 | Unbiased | 1.9878 | 1.9492 | -0.0386 |
| 18 | 30 | Unbiased | 2.0207 | 1.9529 | -0.0678 |
| 19 | 30 | Unbiased | 2.0239 | 1.9825 | -0.0414 |
| 20 | 30 | Unbiased | 2.0485 | 1.9851 | -0.0634 |
| 21 | 50 | Bias | 2.0502 | 1.8898 | -0.1604 |
| 22 | 50 | Bias | 2.0432 | 1.8844 | -0.1588 |
| 23 | 50 | Bias | 2.0059 | 1.8789 | -0.127 |
| 24 | 50 | Bias | 2.0112 | 1.8545 | -0.1567 |
| 25 | 50 | Bias | 2.0168 | 1.8427 | -0.1741 |
| 26 | 50 | Unbiased | 2.0166 | 1.9678 | -0.0488 |
| 27 | 50 | Unbiased | 2.0411 | 1.9842 | -0.0569 |
| 28 | 50 | Unbiased | 2.0206 | 1.9622 | -0.0584 |
| 29 | 50 | Unbiased | 2.0703 | 2.0114 | -0.0589 |
| 30 | 50 | Unbiased | 2.0506 | 1.9911 | -0.0595 |
| 31 | 0 | Correlation | 2.0071 | 2.0077 | 0.0006 |
| 32 | 0 | Correlation | 1.9965 | 1.9973 | 0.0008 |
| 33 | 0 | Correlation | 2.0535 | 2.0516 | -0.0019 |
| 34 | 0 | Correlation | 2.0522 | 2.0348 | -0.0174 |

## Test Statistics (%)
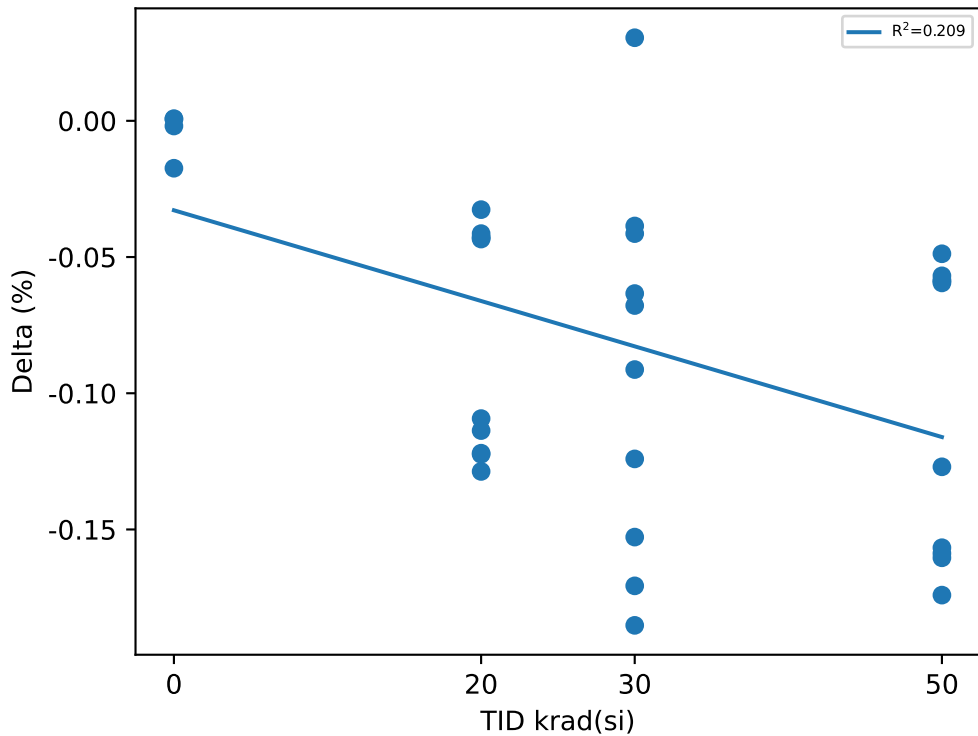
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.9965 | 2.0273 | 2.0535 | 0.029794 | 1.9973 | 2.0229 | 2.0516 | 0.024844 | -0.0174 | -0.004475 | 0.0008 | 0.0087038 |
| 20 | 1.971 | 2.0177 | 2.0608 | 0.030469 | 1.8573 | 1.9378 | 1.9926 | 0.042496 | -0.1287 | -0.07991 | -0.0326 | 0.041862 |
| 30 | 1.9839 | 2.0299 | 2.0738 | 0.030679 | 1.8668 | 1.9394 | 2.0144 | 0.046085 | -0.1852 | -0.09048 | 0.0305 | 0.067828 |
| 50 | 2.0059 | 2.0326 | 2.0703 | 0.02124 | 1.8427 | 1.9267 | 2.0114 | 0.062611 | -0.1741 | -0.10595 | -0.0488 | 0.053464 |

# Device Test: 15.62  VOL_EN_2MA(_EVEL|VOL/EN1/1.6/14/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.5988 | 2.4668 | -0.132 |
| 2 | 20 | Bias | 2.6062 | 2.4772 | -0.129 |
| 3 | 20 | Bias | 2.6312 | 2.5031 | -0.1281 |
| 4 | 20 | Bias | 2.5855 | 2.4614 | -0.1241 |
| 5 | 20 | Bias | 2.6081 | 2.4883 | -0.1198 |
| 6 | 20 | Unbiased | 2.6302 | 2.58 | -0.0502 |
| 7 | 20 | Unbiased | 2.6218 | 2.5808 | -0.041 |
| 8 | 20 | Unbiased | 2.5539 | 2.5143 | -0.0396 |
| 9 | 20 | Unbiased | 2.6033 | 2.5619 | -0.0414 |
| 10 | 20 | Unbiased | 2.6279 | 2.5873 | -0.0406 |
| 11 | 30 | Bias | 2.648 | 2.4737 | -0.1743 |
| 12 | 30 | Bias | 2.6478 | 2.4948 | -0.153 |
| 13 | 30 | Bias | 2.6325 | 2.5007 | -0.1318 |
| 14 | 30 | Bias | 2.6064 | 2.4812 | -0.1252 |
| 15 | 30 | Bias | 2.6829 | 2.4544 | -0.2285 |
| 16 | 30 | Unbiased | 2.6113 | 2.6384 | 0.0271 |
| 17 | 30 | Unbiased | 2.5795 | 2.5697 | -0.0098 |
| 18 | 30 | Unbiased | 2.6007 | 2.5413 | -0.0594 |
| 19 | 30 | Unbiased | 2.6618 | 2.5647 | -0.0971 |
| 20 | 30 | Unbiased | 2.5785 | 2.6279 | 0.0494 |
| 21 | 50 | Bias | 2.6035 | 2.4283 | -0.1752 |
| 22 | 50 | Bias | 2.6146 | 2.4423 | -0.1723 |
| 23 | 50 | Bias | 2.6212 | 2.456 | -0.1652 |
| 24 | 50 | Bias | 2.6056 | 2.4572 | -0.1484 |
| 25 | 50 | Bias | 2.5847 | 2.4184 | -0.1663 |
| 26 | 50 | Unbiased | 2.591 | 2.5422 | -0.0488 |
| 27 | 50 | Unbiased | 2.598 | 2.5504 | -0.0476 |
| 28 | 50 | Unbiased | 2.6402 | 2.5886 | -0.0516 |
| 29 | 50 | Unbiased | 2.6411 | 2.5941 | -0.047 |
| 30 | 50 | Unbiased | 2.6144 | 2.5638 | -0.0506 |
| 31 | 0 | Correlation | 2.6261 | 2.6294 | 0.0033 |
| 32 | 0 | Correlation | 2.5898 | 2.5933 | 0.0035 |
| 33 | 0 | Correlation | 2.6009 | 2.6031 | 0.0022 |
| 34 | 0 | Correlation | 2.5677 | 2.6214 | 0.0537 |

## Test Statistics (%)
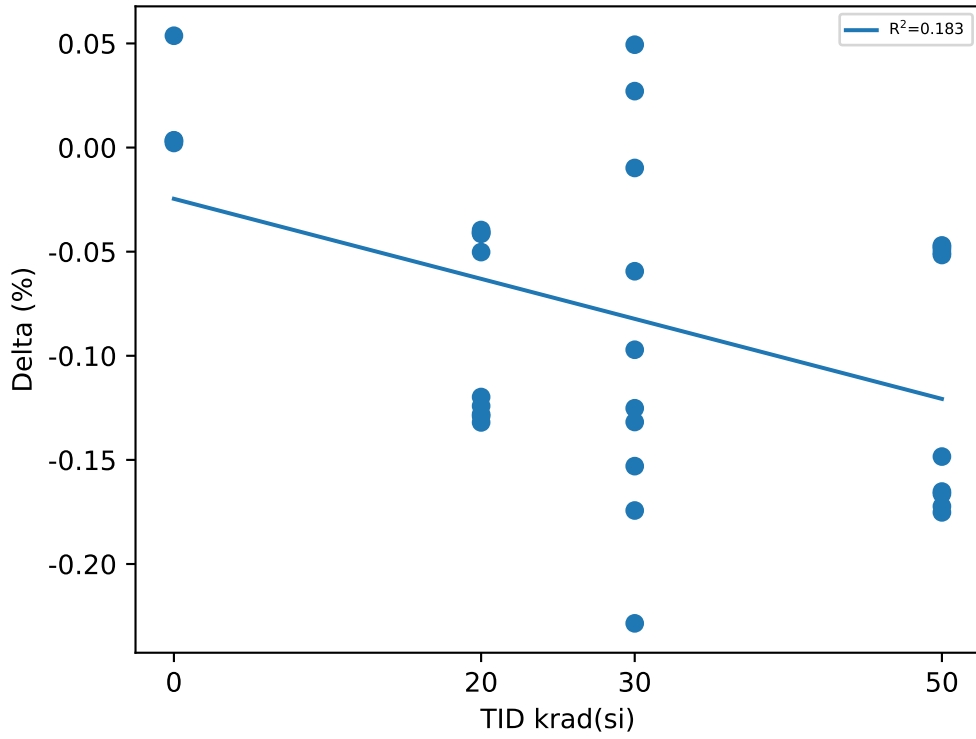
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.5677 | 2.5961 | 2.6261 | 0.024285 | 2.5933 | 2.6118 | 2.6294 | 0.016531 | 0.0022 | 0.015675 | 0.0537 | 0.025356 |
| 20 | 2.5539 | 2.6067 | 2.6312 | 0.023906 | 2.4614 | 2.5221 | 2.5873 | 0.050504 | -0.132 | -0.08458 | -0.0396 | 0.044499 |
| 30 | 2.5785 | 2.6249 | 2.6829 | 0.035227 | 2.4544 | 2.5347 | 2.6384 | 0.064453 | -0.2285 | -0.09026 | 0.0494 | 0.090558 |
| 50 | 2.5847 | 2.6114 | 2.6411 | 0.018949 | 2.4184 | 2.5041 | 2.5941 | 0.069779 | -0.1752 | -0.1073 | -0.047 | 0.061732 |

# Device Test: 15.63  VOL_EN_2MA(_EVEL|VOL/EN2/1.6/14/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

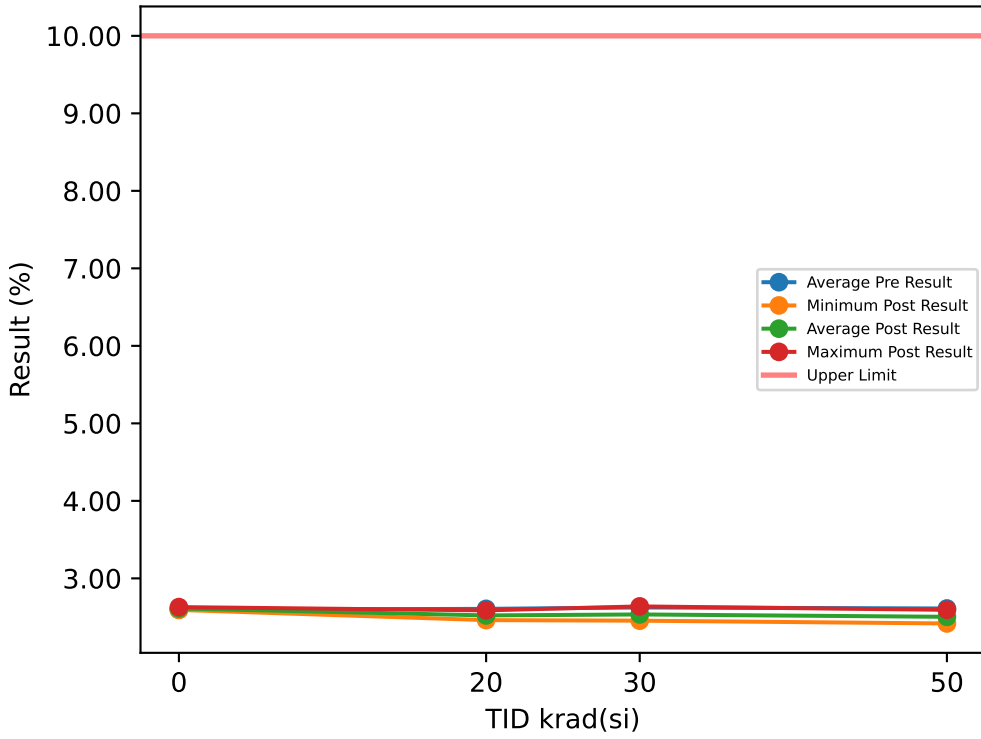| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.6005 | 2.469 | -0.1315 |
| 2 | 20 | Bias | 2.6029 | 2.4747 | -0.1282 |
| 3 | 20 | Bias | 2.6333 | 2.5051 | -0.1282 |
| 4 | 20 | Bias | 2.5295 | 2.4108 | -0.1187 |
| 5 | 20 | Bias | 2.5662 | 2.4475 | -0.1187 |
| 6 | 20 | Unbiased | 2.6025 | 2.5519 | -0.0506 |
| 7 | 20 | Unbiased | 2.6007 | 2.5615 | -0.0392 |
| 8 | 20 | Unbiased | 2.6093 | 2.5666 | -0.0427 |
| 9 | 20 | Unbiased | 2.5461 | 2.5073 | -0.0388 |
| 10 | 20 | Unbiased | 2.5453 | 2.5049 | -0.0404 |
| 11 | 30 | Bias | 2.6269 | 2.4676 | -0.1593 |
| 12 | 30 | Bias | 2.648 | 2.4741 | -0.1739 |
| 13 | 30 | Bias | 2.6322 | 2.4987 | -0.1335 |
| 14 | 30 | Bias | 2.5555 | 2.4762 | -0.0793 |
| 15 | 30 | Bias | 2.6281 | 2.4079 | -0.2202 |
| 16 | 30 | Unbiased | 2.5496 | 2.5839 | 0.0343 |
| 17 | 30 | Unbiased | 2.5359 | 2.5096 | -0.0263 |
| 18 | 30 | Unbiased | 2.5465 | 2.4955 | -0.051 |
| 19 | 30 | Unbiased | 2.5988 | 2.5094 | -0.0894 |
| 20 | 30 | Unbiased | 2.5744 | 2.5623 | -0.0121 |
| 21 | 50 | Bias | 2.5738 | 2.4167 | -0.1571 |
| 22 | 50 | Bias | 2.5859 | 2.4154 | -0.1705 |
| 23 | 50 | Bias | 2.5469 | 2.4263 | -0.1206 |
| 24 | 50 | Bias | 2.5652 | 2.3978 | -0.1674 |
| 25 | 50 | Bias | 2.5576 | 2.3876 | -0.17 |
| 26 | 50 | Unbiased | 2.5683 | 2.525 | -0.0433 |
| 27 | 50 | Unbiased | 2.582 | 2.5342 | -0.0478 |
| 28 | 50 | Unbiased | 2.5631 | 2.5166 | -0.0465 |
| 29 | 50 | Unbiased | 2.6353 | 2.5851 | -0.0502 |
| 30 | 50 | Unbiased | 2.6125 | 2.5656 | -0.0469 |
| 31 | 0 | Correlation | 2.5609 | 2.5629 | 0.002 |
| 32 | 0 | Correlation | 2.5426 | 2.5455 | 0.0029 |
| 33 | 0 | Correlation | 2.6002 | 2.6041 | 0.0039 |
| 34 | 0 | Correlation | 2.5512 | 2.6201 | 0.0689 |

## Test Statistics (%)
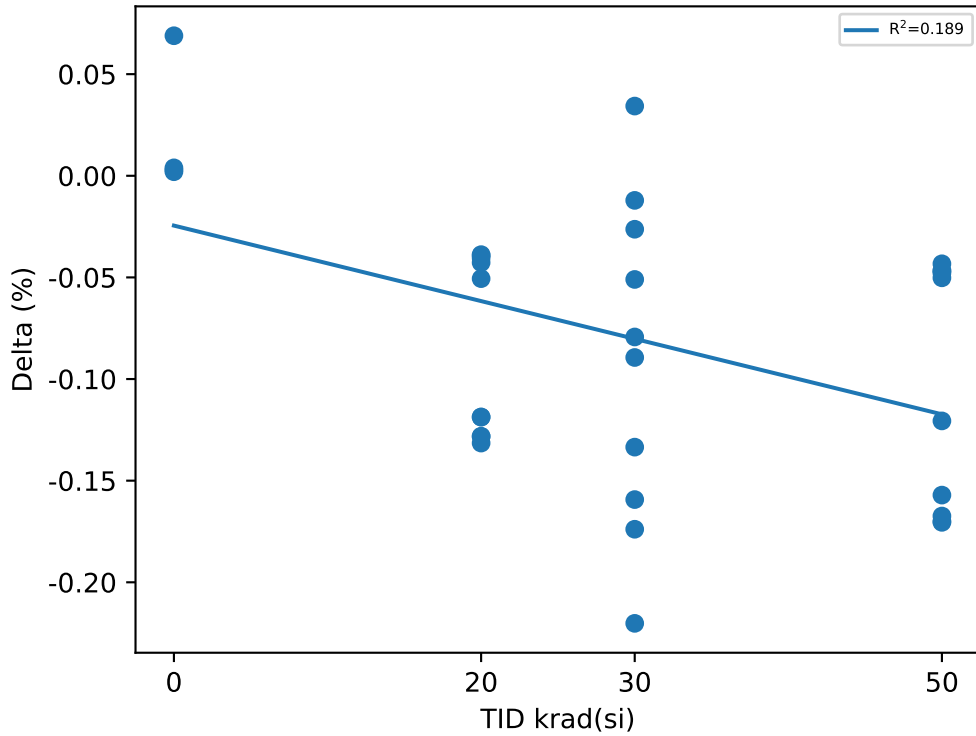
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.5426 | 2.5637 | 2.6002 | 0.02544 | 2.5455 | 2.5831 | 2.6201 | 0.034794 | 0.002 | 0.019425 | 0.0689 | 0.032992 |
| 20 | 2.5295 | 2.5836 | 2.6333 | 0.034223 | 2.4108 | 2.4999 | 2.5666 | 0.050912 | -0.1315 | -0.0837 | -0.0388 | 0.043898 |
| 30 | 2.5359 | 2.5896 | 2.648 | 0.042056 | 2.4079 | 2.4985 | 2.5839 | 0.049296 | -0.2202 | -0.09107 | 0.0343 | 0.080199 |
| 50 | 2.5469 | 2.5791 | 2.6353 | 0.026712 | 2.3876 | 2.477 | 2.5851 | 0.075237 | -0.1705 | -0.10203 | -0.0433 | 0.059776 |

# Device Test: 15.64  VOL_EN_2MA(_EVEL|VOL/EN3/1.6/14/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

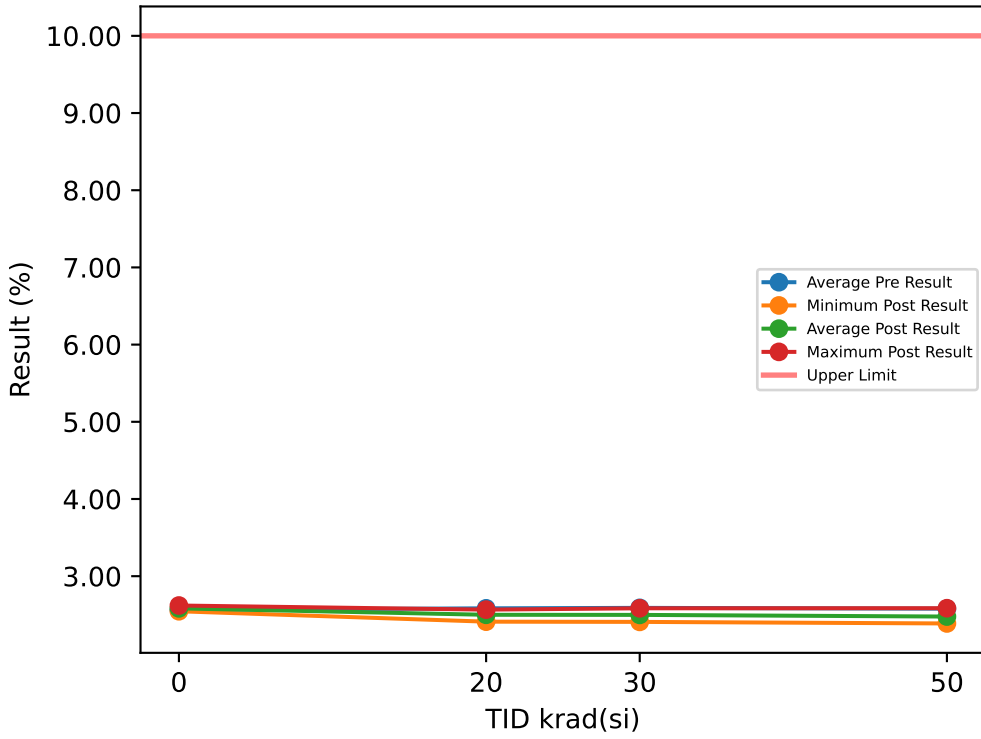| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.5489 | 2.4181 | -0.1308 |
| 2 | 20 | Bias | 2.5653 | 2.4341 | -0.1312 |
| 3 | 20 | Bias | 2.575 | 2.4499 | -0.1251 |
| 4 | 20 | Bias | 2.4872 | 2.3728 | -0.1144 |
| 5 | 20 | Bias | 2.5128 | 2.3988 | -0.114 |
| 6 | 20 | Unbiased | 2.5432 | 2.4948 | -0.0484 |
| 7 | 20 | Unbiased | 2.542 | 2.5005 | -0.0415 |
| 8 | 20 | Unbiased | 2.5549 | 2.5157 | -0.0392 |
| 9 | 20 | Unbiased | 2.4973 | 2.4624 | -0.0349 |
| 10 | 20 | Unbiased | 2.4952 | 2.4581 | -0.0371 |
| 11 | 30 | Bias | 2.5818 | 2.4182 | -0.1636 |
| 12 | 30 | Bias | 2.5902 | 2.4286 | -0.1616 |
| 13 | 30 | Bias | 2.5719 | 2.4409 | -0.131 |
| 14 | 30 | Bias | 2.5182 | 2.4192 | -0.099 |
| 15 | 30 | Bias | 2.5785 | 2.3687 | -0.2098 |
| 16 | 30 | Unbiased | 2.5034 | 2.5347 | 0.0313 |
| 17 | 30 | Unbiased | 2.4858 | 2.4616 | -0.0242 |
| 18 | 30 | Unbiased | 2.4932 | 2.45 | -0.0432 |
| 19 | 30 | Unbiased | 2.5494 | 2.4573 | -0.0921 |
| 20 | 30 | Unbiased | 2.536 | 2.5107 | -0.0253 |
| 21 | 50 | Bias | 2.5373 | 2.3774 | -0.1599 |
| 22 | 50 | Bias | 2.5508 | 2.3784 | -0.1724 |
| 23 | 50 | Bias | 2.4999 | 2.3911 | -0.1088 |
| 24 | 50 | Bias | 2.5395 | 2.3499 | -0.1896 |
| 25 | 50 | Bias | 2.509 | 2.3393 | -0.1697 |
| 26 | 50 | Unbiased | 2.5356 | 2.4911 | -0.0445 |
| 27 | 50 | Unbiased | 2.5571 | 2.5075 | -0.0496 |
| 28 | 50 | Unbiased | 2.5239 | 2.478 | -0.0459 |
| 29 | 50 | Unbiased | 2.5898 | 2.5375 | -0.0523 |
| 30 | 50 | Unbiased | 2.5573 | 2.5096 | -0.0477 |
| 31 | 0 | Correlation | 2.5151 | 2.5153 | 0.0002 |
| 32 | 0 | Correlation | 2.5069 | 2.5055 | -0.0014 |
| 33 | 0 | Correlation | 2.5602 | 2.5578 | -0.0024 |
| 34 | 0 | Correlation | 2.52 | 2.5664 | 0.0464 |

## Test Statistics (%)
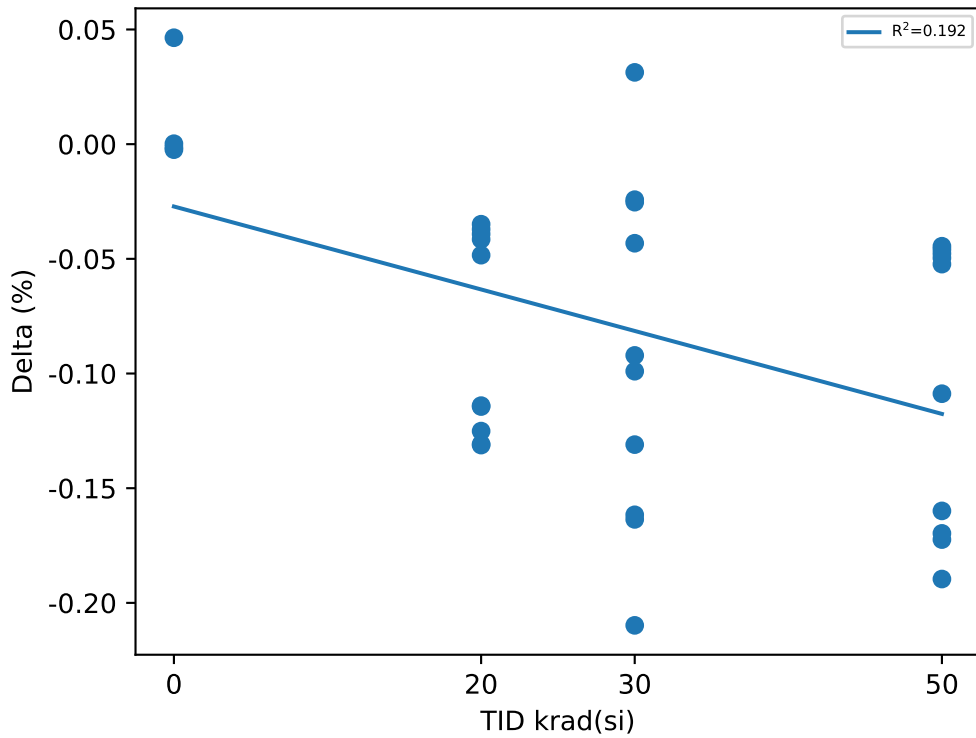
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.5069 | 2.5255 | 2.5602 | 0.023724 | 2.5055 | 2.5362 | 2.5664 | 0.03032 | -0.0024 | 0.0107 | 0.0464 | 0.023824 |
| 20 | 2.4872 | 2.5322 | 2.575 | 0.031494 | 2.3728 | 2.4505 | 2.5157 | 0.045877 | -0.1312 | -0.08166 | -0.0349 | 0.044181 |
| 30 | 2.4858 | 2.5408 | 2.5902 | 0.039168 | 2.3687 | 2.449 | 2.5347 | 0.047313 | -0.2098 | -0.09185 | 0.0313 | 0.076046 |
| 50 | 2.4999 | 2.54 | 2.5898 | 0.025913 | 2.3393 | 2.436 | 2.5375 | 0.075398 | -0.1896 | -0.10404 | -0.0445 | 0.062528 |

# Device Test: 15.65  VOL_EN_2MA(_EVEL|VOL/EN4/1.6/14/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

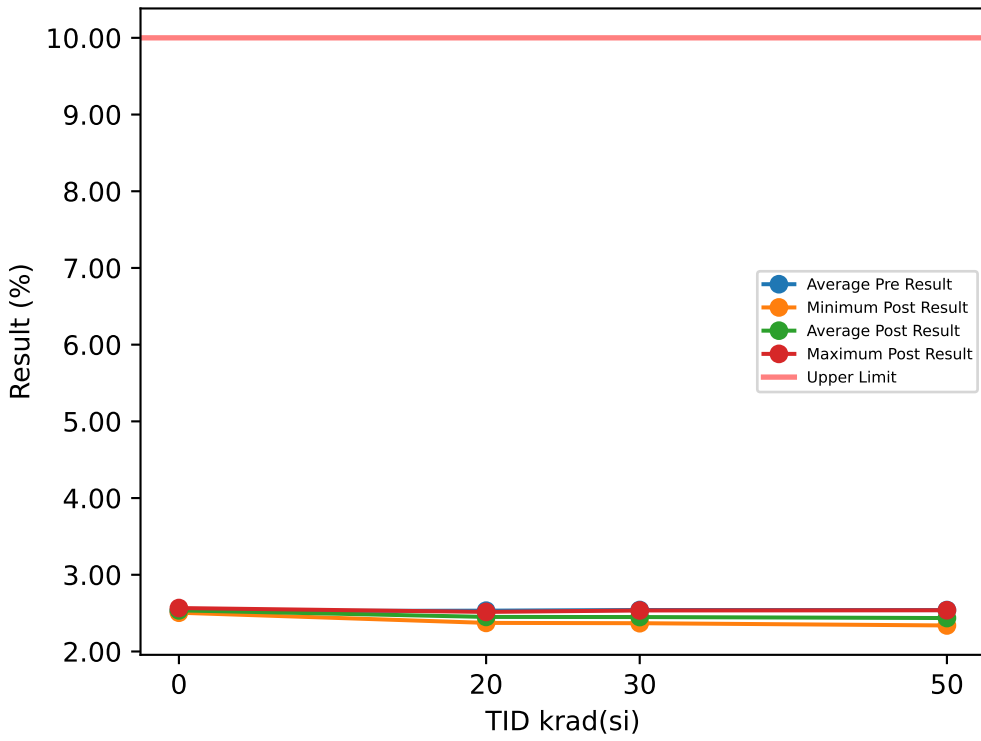| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 2.4835 | 2.3516 | -0.1319 |
| 2 | 20 | Bias | 2.4886 | 2.3603 | -0.1283 |
| 3 | 20 | Bias | 2.502 | 2.3765 | -0.1255 |
| 4 | 20 | Bias | 2.4166 | 2.2985 | -0.1181 |
| 5 | 20 | Bias | 2.4593 | 2.3451 | -0.1142 |
| 6 | 20 | Unbiased | 2.4886 | 2.4396 | -0.049 |
| 7 | 20 | Unbiased | 2.4812 | 2.4427 | -0.0385 |
| 8 | 20 | Unbiased | 2.4771 | 2.4347 | -0.0424 |
| 9 | 20 | Unbiased | 2.4285 | 2.3906 | -0.0379 |
| 10 | 20 | Unbiased | 2.4285 | 2.3931 | -0.0354 |
| 11 | 30 | Bias | 2.5157 | 2.342 | -0.1737 |
| 12 | 30 | Bias | 2.5255 | 2.3619 | -0.1636 |
| 13 | 30 | Bias | 2.5073 | 2.3731 | -0.1342 |
| 14 | 30 | Bias | 2.4374 | 2.3567 | -0.0807 |
| 15 | 30 | Bias | 2.5145 | 2.2909 | -0.2236 |
| 16 | 30 | Unbiased | 2.4335 | 2.47 | 0.0365 |
| 17 | 30 | Unbiased | 2.4089 | 2.3935 | -0.0154 |
| 18 | 30 | Unbiased | 2.421 | 2.3727 | -0.0483 |
| 19 | 30 | Unbiased | 2.4808 | 2.3846 | -0.0962 |
| 20 | 30 | Unbiased | 2.4655 | 2.4466 | -0.0189 |
| 21 | 50 | Bias | 2.4745 | 2.3071 | -0.1674 |
| 22 | 50 | Bias | 2.4831 | 2.3126 | -0.1705 |
| 23 | 50 | Bias | 2.4349 | 2.3198 | -0.1151 |
| 24 | 50 | Bias | 2.4716 | 2.2813 | -0.1903 |
| 25 | 50 | Bias | 2.4577 | 2.2889 | -0.1688 |
| 26 | 50 | Unbiased | 2.4579 | 2.4128 | -0.0451 |
| 27 | 50 | Unbiased | 2.4757 | 2.4281 | -0.0476 |
| 28 | 50 | Unbiased | 2.4652 | 2.4154 | -0.0498 |
| 29 | 50 | Unbiased | 2.5259 | 2.4761 | -0.0498 |
| 30 | 50 | Unbiased | 2.4864 | 2.4382 | -0.0482 |
| 31 | 0 | Correlation | 2.4515 | 2.4521 | 0.0006 |
| 32 | 0 | Correlation | 2.449 | 2.4472 | -0.0018 |
| 33 | 0 | Correlation | 2.4956 | 2.4978 | 0.0022 |
| 34 | 0 | Correlation | 2.4575 | 2.4933 | 0.0358 |

## Test Statistics (%)
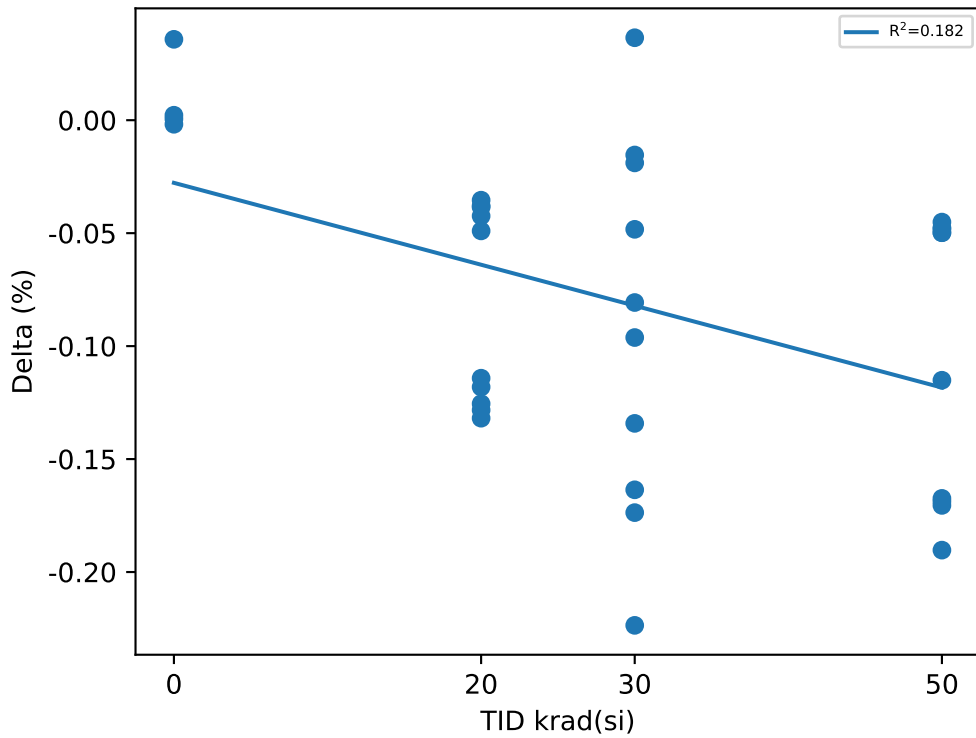
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.449 | 2.4634 | 2.4956 | 0.021761 | 2.4472 | 2.4726 | 2.4978 | 0.026639 | -0.0018 | 0.0092 | 0.0358 | 0.017809 |
| 20 | 2.4166 | 2.4654 | 2.502 | 0.030317 | 2.2985 | 2.3833 | 2.4427 | 0.046809 | -0.1319 | -0.08212 | -0.0354 | 0.044136 |
| 30 | 2.4089 | 2.471 | 2.5255 | 0.043711 | 2.2909 | 2.3792 | 2.47 | 0.050648 | -0.2236 | -0.09181 | 0.0365 | 0.08211 |
| 50 | 2.4349 | 2.4733 | 2.5259 | 0.023723 | 2.2813 | 2.368 | 2.4761 | 0.072537 | -0.1903 | -0.10526 | -0.0451 | 0.0631 |
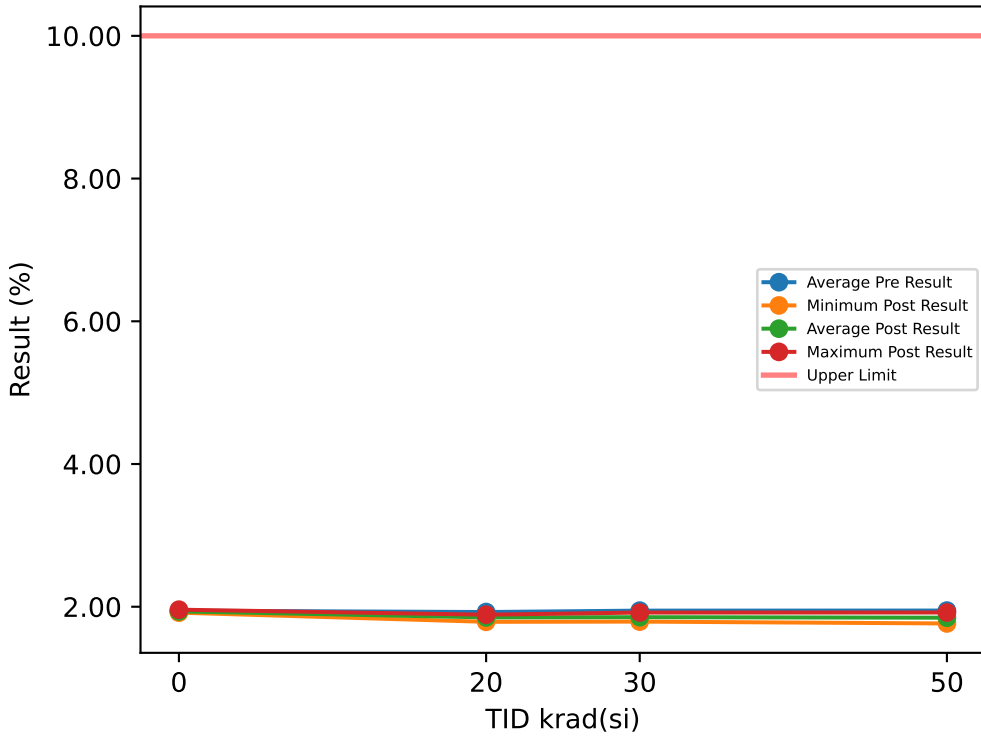
# Device Test: 15.66  VOL_SEQ_DONE_2MA(_EVEL|VOL/SEQ_DONE/1.6/14/0/0/2/@VOL_SEQ_DONE_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

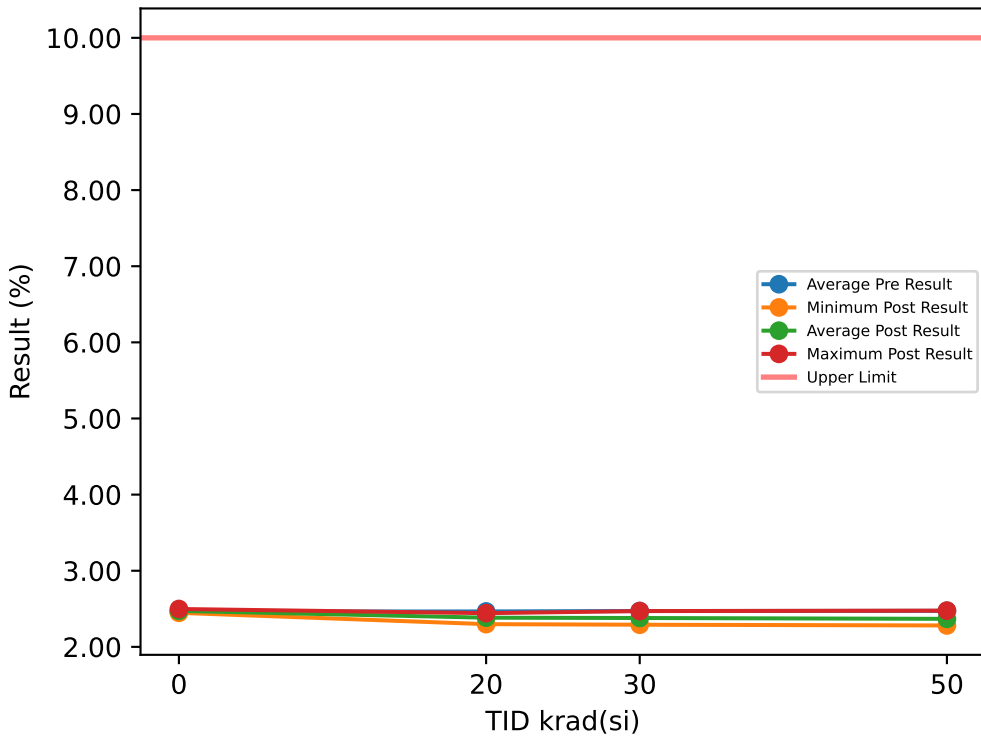| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.9432 | 1.821 | -0.1222 |
| 2 | 20 | Bias | 1.9461 | 1.8269 | -0.1192 |
| 3 | 20 | Bias | 1.9719 | 1.8548 | -0.1171 |
| 4 | 20 | Bias | 1.9003 | 1.7886 | -0.1117 |
| 5 | 20 | Bias | 1.9063 | 1.804 | -0.1023 |
| 6 | 20 | Unbiased | 1.9311 | 1.888 | -0.0431 |
| 7 | 20 | Unbiased | 1.9251 | 1.8884 | -0.0367 |
| 8 | 20 | Unbiased | 1.9202 | 1.8856 | -0.0346 |
| 9 | 20 | Unbiased | 1.9016 | 1.8679 | -0.0337 |
| 10 | 20 | Unbiased | 1.9116 | 1.8804 | -0.0312 |
| 11 | 30 | Bias | 1.9569 | 1.8006 | -0.1563 |
| 12 | 30 | Bias | 1.975 | 1.8147 | -0.1603 |
| 13 | 30 | Bias | 1.9508 | 1.8303 | -0.1205 |
| 14 | 30 | Bias | 1.9321 | 1.8092 | -0.1229 |
| 15 | 30 | Bias | 1.9541 | 1.7918 | -0.1623 |
| 16 | 30 | Unbiased | 1.9213 | 1.9183 | -0.003 |
| 17 | 30 | Unbiased | 1.9206 | 1.8828 | -0.0378 |
| 18 | 30 | Unbiased | 1.9381 | 1.883 | -0.0551 |
| 19 | 30 | Unbiased | 1.936 | 1.9046 | -0.0314 |
| 20 | 30 | Unbiased | 1.9692 | 1.9013 | -0.0679 |
| 21 | 50 | Bias | 1.9539 | 1.8141 | -0.1398 |
| 22 | 50 | Bias | 1.9518 | 1.7957 | -0.1561 |
| 23 | 50 | Bias | 1.9169 | 1.794 | -0.1229 |
| 24 | 50 | Bias | 1.9377 | 1.7657 | -0.172 |
| 25 | 50 | Bias | 1.9399 | 1.771 | -0.1689 |
| 26 | 50 | Unbiased | 1.9637 | 1.9167 | -0.047 |
| 27 | 50 | Unbiased | 1.9561 | 1.9083 | -0.0478 |
| 28 | 50 | Unbiased | 1.9206 | 1.8708 | -0.0498 |
| 29 | 50 | Unbiased | 1.9684 | 1.9194 | -0.049 |
| 30 | 50 | Unbiased | 1.9561 | 1.9075 | -0.0486 |
| 31 | 0 | Correlation | 1.9206 | 1.9171 | -0.0035 |
| 32 | 0 | Correlation | 1.9274 | 1.9235 | -0.0039 |
| 33 | 0 | Correlation | 1.9614 | 1.9588 | -0.0026 |
| 34 | 0 | Correlation | 1.967 | 1.9405 | -0.0265 |

## Test Statistics (%)
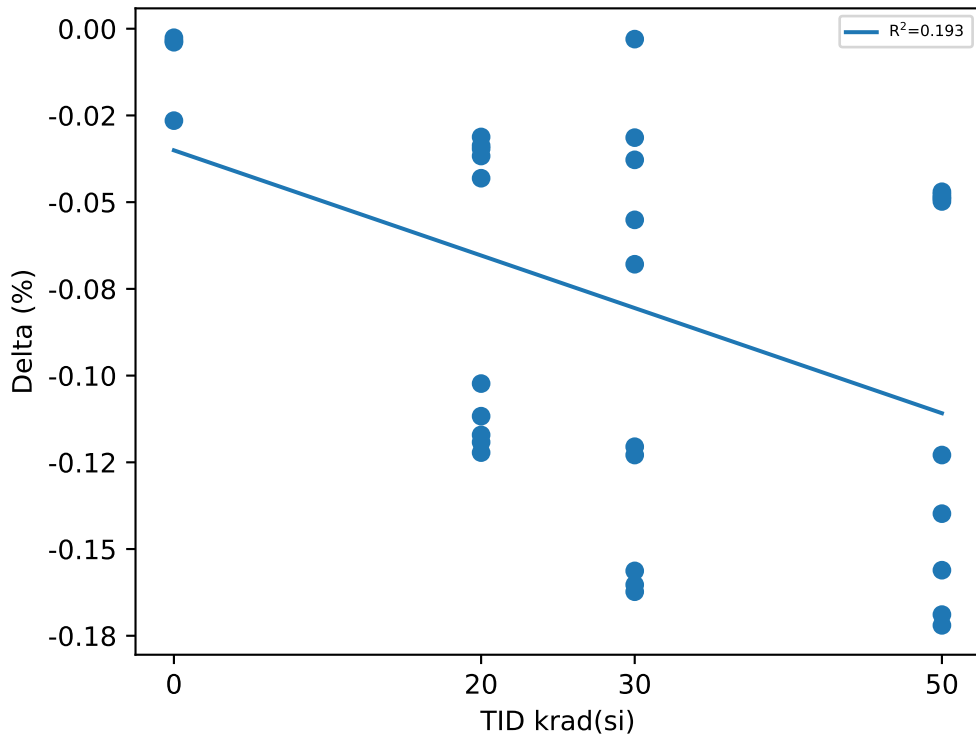
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.9206 | 1.9441 | 1.967 | 0.023486 | 1.9171 | 1.935 | 1.9588 | 0.018702 | -0.0265 | -0.009125 | -0.0026 | 0.011596 |
| 20 | 1.9003 | 1.9257 | 1.9719 | 0.022895 | 1.7886 | 1.8506 | 1.8884 | 0.037581 | -0.1222 | -0.07518 | -0.0312 | 0.041881 |
| 30 | 1.9206 | 1.9454 | 1.975 | 0.018839 | 1.7918 | 1.8537 | 1.9183 | 0.048802 | -0.1623 | -0.09175 | -0.003 | 0.059611 |
| 50 | 1.9169 | 1.9465 | 1.9684 | 0.017354 | 1.7657 | 1.8463 | 1.9194 | 0.064108 | -0.172 | -0.10019 | -0.047 | 0.056257 |
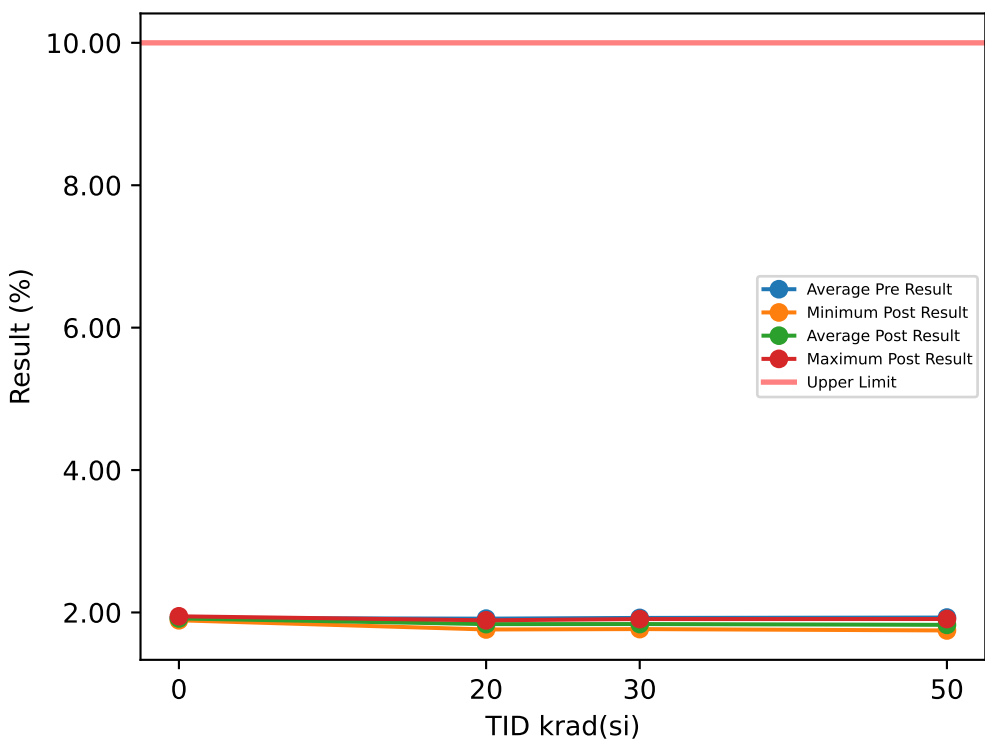
# Device Test: 15.67  VOL_PWRGD_2MA(_EVEL|VOL/PWRGD/1.6/14/0/0/2/@VOL_PWRGD_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 1.9327 | 1.8078 | -0.1249 |
| 2 | 20 | Bias | 1.9368 | 1.8152 | -0.1216 |
| 3 | 20 | Bias | 1.9526 | 1.8322 | -0.1204 |
| 4 | 20 | Bias | 1.8695 | 1.7609 | -0.1086 |
| 5 | 20 | Bias | 1.9091 | 1.8017 | -0.1074 |
| 6 | 20 | Unbiased | 1.927 | 1.8835 | -0.0435 |
| 7 | 20 | Unbiased | 1.9239 | 1.8896 | -0.0343 |
| 8 | 20 | Unbiased | 1.9185 | 1.8788 | -0.0397 |
| 9 | 20 | Unbiased | 1.8792 | 1.8447 | -0.0345 |
| 10 | 20 | Unbiased | 1.8816 | 1.8484 | -0.0332 |
| 11 | 30 | Bias | 1.9403 | 1.7934 | -0.1469 |
| 12 | 30 | Bias | 1.9655 | 1.8001 | -0.1654 |
| 13 | 30 | Bias | 1.9479 | 1.8237 | -0.1242 |
| 14 | 30 | Bias | 1.9003 | 1.8082 | -0.0921 |
| 15 | 30 | Bias | 1.9405 | 1.7665 | -0.174 |
| 16 | 30 | Unbiased | 1.8823 | 1.907 | 0.0247 |
| 17 | 30 | Unbiased | 1.886 | 1.8524 | -0.0336 |
| 18 | 30 | Unbiased | 1.9099 | 1.8508 | -0.0591 |
| 19 | 30 | Unbiased | 1.9204 | 1.8805 | -0.0399 |
| 20 | 30 | Unbiased | 1.939 | 1.8896 | -0.0494 |
| 21 | 50 | Bias | 1.937 | 1.7837 | -0.1533 |
| 22 | 50 | Bias | 1.9405 | 1.7801 | -0.1604 |
| 23 | 50 | Bias | 1.9054 | 1.7794 | -0.126 |
| 24 | 50 | Bias | 1.9106 | 1.7536 | -0.157 |
| 25 | 50 | Bias | 1.9171 | 1.7472 | -0.1699 |
| 26 | 50 | Unbiased | 1.9144 | 1.863 | -0.0514 |
| 27 | 50 | Unbiased | 1.9376 | 1.8862 | -0.0514 |
| 28 | 50 | Unbiased | 1.9157 | 1.865 | -0.0507 |
| 29 | 50 | Unbiased | 1.9598 | 1.9077 | -0.0521 |
| 30 | 50 | Unbiased | 1.946 | 1.8923 | -0.0537 |
| 31 | 0 | Correlation | 1.9015 | 1.9003 | -0.0012 |
| 32 | 0 | Correlation | 1.8952 | 1.8899 | -0.0053 |
| 33 | 0 | Correlation | 1.9493 | 1.946 | -0.0033 |
| 34 | 0 | Correlation | 1.938 | 1.9282 | -0.0098 |

## Test Statistics (%)
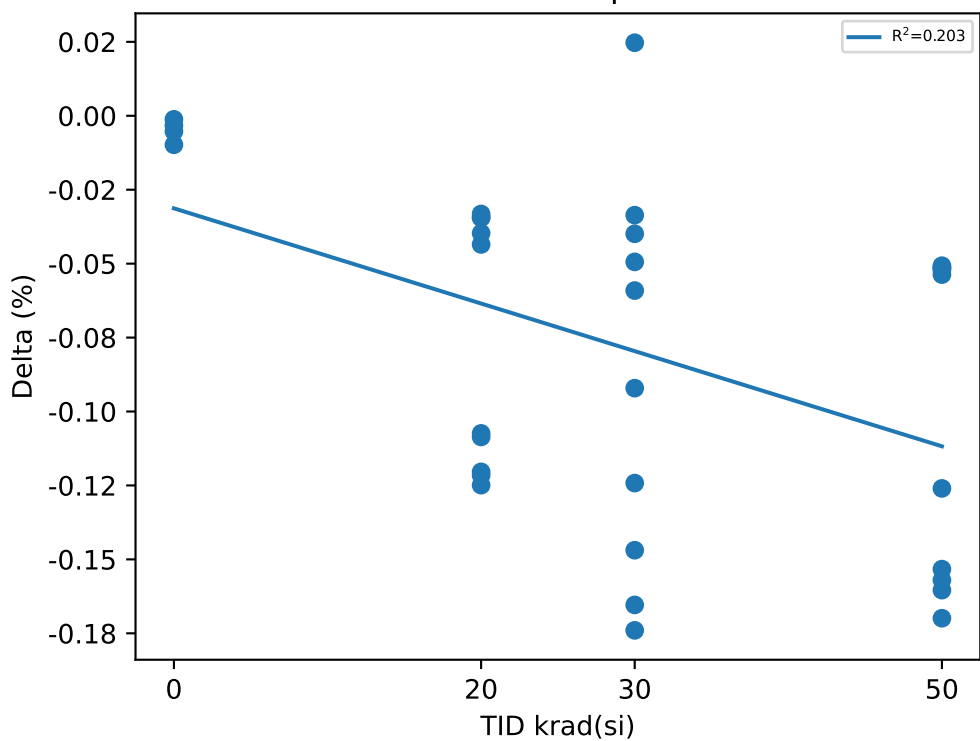
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.8952 | 1.921 | 1.9493 | 0.026682 | 1.8899 | 1.9161 | 1.946 | 0.025668 | -0.0098 | -0.0049 | -0.0012 | 0.0036706 |
| 20 | 1.8695 | 1.9131 | 1.9526 | 0.027696 | 1.7609 | 1.8363 | 1.8896 | 0.041162 | -0.1249 | -0.07681 | -0.0332 | 0.042362 |
| 30 | 1.8823 | 1.9232 | 1.9655 | 0.027902 | 1.7665 | 1.8372 | 1.907 | 0.046218 | -0.174 | -0.08599 | 0.0247 | 0.065356 |
| 50 | 1.9054 | 1.9284 | 1.9598 | 0.018048 | 1.7472 | 1.8258 | 1.9077 | 0.062453 | -0.1699 | -0.10259 | -0.0507 | 0.054595 |

# Device Test: 15.68  VOL_EN_2MA(_EVEL|VOL/EN1/7/3/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.5972 | 0.5689 | -0.0283 |
| 2 | 20 | Bias | 0.5984 | 0.5712 | -0.0272 |
| 3 | 20 | Bias | 0.6052 | 0.5778 | -0.0274 |
| 4 | 20 | Bias | 0.5939 | 0.5672 | -0.0267 |
| 5 | 20 | Bias | 0.5992 | 0.5728 | -0.0264 |
| 6 | 20 | Unbiased | 0.605 | 0.5935 | -0.0115 |
| 7 | 20 | Unbiased | 0.6023 | 0.5925 | -0.0098 |
| 8 | 20 | Unbiased | 0.5883 | 0.5789 | -0.0094 |
| 9 | 20 | Unbiased | 0.5994 | 0.5899 | -0.0095 |
| 10 | 20 | Unbiased | 0.6021 | 0.5934 | -0.0087 |
| 11 | 30 | Bias | 0.6094 | 0.5695 | -0.0399 |
| 12 | 30 | Bias | 0.6081 | 0.5756 | -0.0325 |
| 13 | 30 | Bias | 0.6053 | 0.5762 | -0.0291 |
| 14 | 30 | Bias | 0.5976 | 0.5714 | -0.0262 |
| 15 | 30 | Bias | 0.6175 | 0.565 | -0.0525 |
| 16 | 30 | Unbiased | 0.5982 | 0.6077 | 0.0095 |
| 17 | 30 | Unbiased | 0.5939 | 0.5886 | -0.0053 |
| 18 | 30 | Unbiased | 0.5976 | 0.5847 | -0.0129 |
| 19 | 30 | Unbiased | 0.6108 | 0.5889 | -0.0219 |
| 20 | 30 | Unbiased | 0.5932 | 0.6019 | 0.0087 |
| 21 | 50 | Bias | 0.5997 | 0.559 | -0.0407 |
| 22 | 50 | Bias | 0.6007 | 0.564 | -0.0367 |
| 23 | 50 | Bias | 0.6013 | 0.5654 | -0.0359 |
| 24 | 50 | Bias | 0.5989 | 0.5656 | -0.0333 |
| 25 | 50 | Bias | 0.5937 | 0.5564 | -0.0373 |
| 26 | 50 | Unbiased | 0.5953 | 0.584 | -0.0113 |
| 27 | 50 | Unbiased | 0.5961 | 0.5842 | -0.0119 |
| 28 | 50 | Unbiased | 0.6059 | 0.5942 | -0.0117 |
| 29 | 50 | Unbiased | 0.6068 | 0.5951 | -0.0117 |
| 30 | 50 | Unbiased | 0.5997 | 0.5878 | -0.0119 |
| 31 | 0 | Correlation | 0.6047 | 0.6046 | -0.0001 |
| 32 | 0 | Correlation | 0.5961 | 0.5959 | -0.0002 |
| 33 | 0 | Correlation | 0.5978 | 0.5981 | 0.0003 |
| 34 | 0 | Correlation | 0.5913 | 0.6018 | 0.0105 |

## Test Statistics (%)
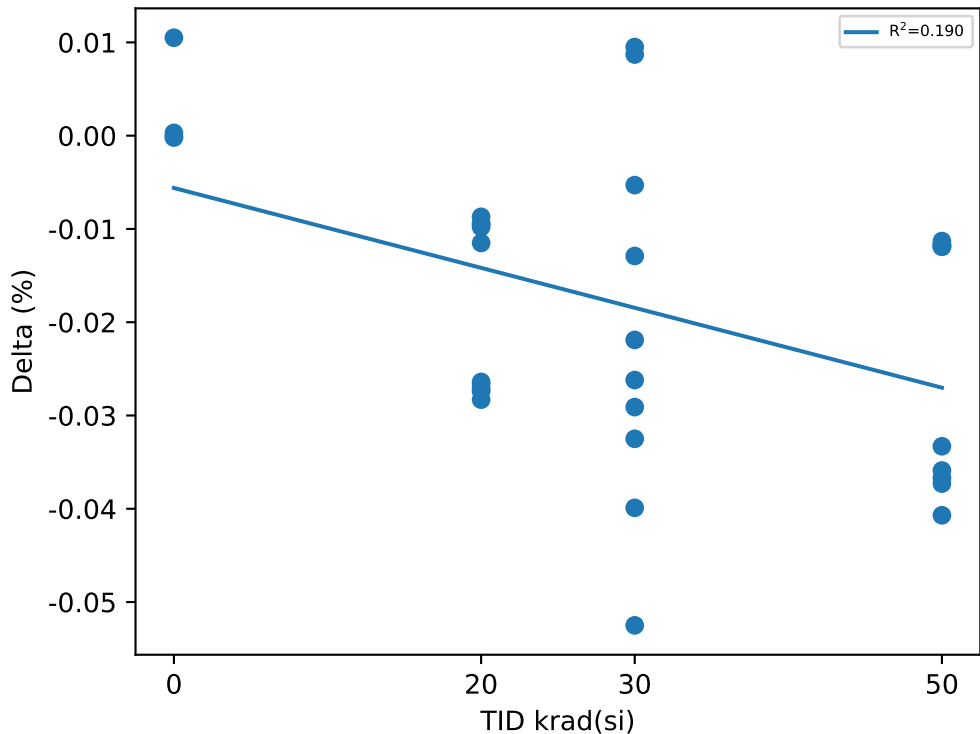
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.5913 | 0.59747 | 0.6047 | 0.0055476 | 0.5959 | 0.6001 | 0.6046 | 0.0038635 | -0.0002 | 0.002625 | 0.0105 | 0.0052544 |
| 20 | 0.5883 | 0.5991 | 0.6052 | 0.0051547 | 0.5672 | 0.58061 | 0.5935 | 0.010722 | -0.0283 | -0.01849 | -0.0087 | 0.0092203 |
| 30 | 0.5932 | 0.60316 | 0.6175 | 0.0081874 | 0.565 | 0.58295 | 0.6077 | 0.014056 | -0.0525 | -0.02021 | 0.0095 | 0.020258 |
| 50 | 0.5937 | 0.59981 | 0.6068 | 0.0042328 | 0.5564 | 0.57557 | 0.5951 | 0.014916 | -0.0407 | -0.02424 | -0.0113 | 0.013339 |

## Device Test: 15.69  VOL_EN_2MA(_EVEL|VOL/EN2/7/3/0/0/2/@VOL_EN_2MA )

### TID vs Result Stats



Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Upper Limit

### TID vs Post - Pre Exposure Delta



Legend: $R^2$=0.194

### Test Results (Upper Limit = 10.0 (%))

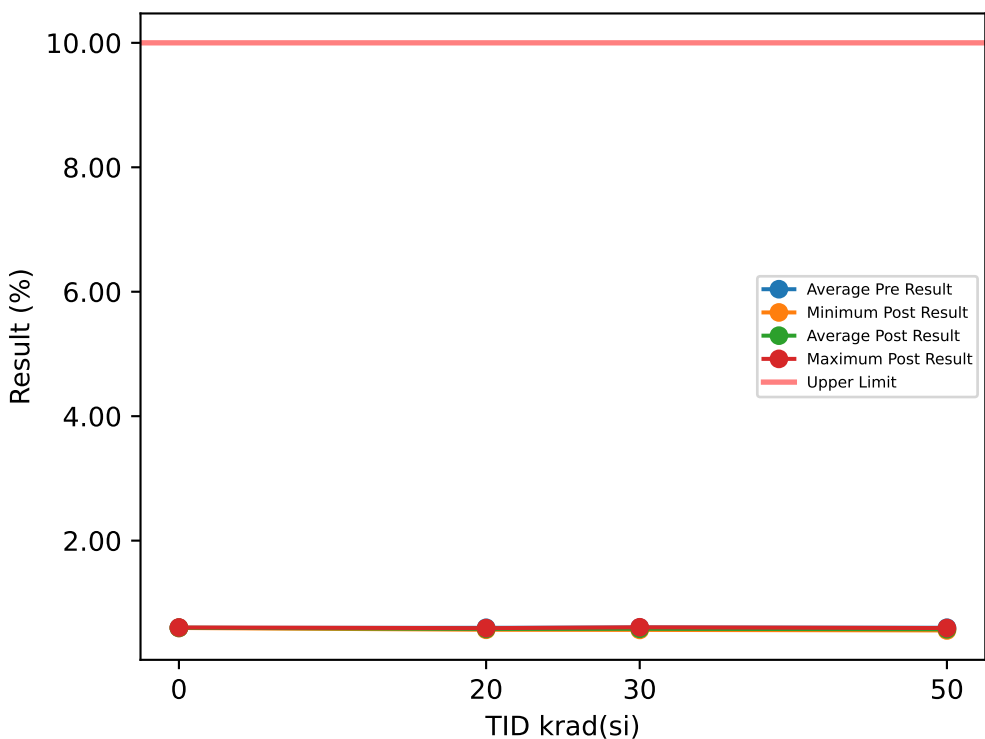| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.5968 | 0.568 | -0.0288 |
| 2 | 20 | Bias | 0.5973 | 0.5696 | -0.0277 |
| 3 | 20 | Bias | 0.6047 | 0.5778 | -0.0269 |
| 4 | 20 | Bias | 0.5798 | 0.5538 | -0.026 |
| 5 | 20 | Bias | 0.5893 | 0.5642 | -0.0251 |
| 6 | 20 | Unbiased | 0.5984 | 0.5876 | -0.0108 |
| 7 | 20 | Unbiased | 0.5965 | 0.5866 | -0.0099 |
| 8 | 20 | Unbiased | 0.5999 | 0.5901 | -0.0098 |
| 9 | 20 | Unbiased | 0.5854 | 0.5763 | -0.0091 |
| 10 | 20 | Unbiased | 0.5826 | 0.5742 | -0.0084 |
| 11 | 30 | Bias | 0.6038 | 0.5684 | -0.0354 |
| 12 | 30 | Bias | 0.6082 | 0.5703 | -0.0379 |
| 13 | 30 | Bias | 0.6032 | 0.5759 | -0.0273 |
| 14 | 30 | Bias | 0.5855 | 0.5707 | -0.0148 |
| 15 | 30 | Bias | 0.6037 | 0.5546 | -0.0491 |
| 16 | 30 | Unbiased | 0.584 | 0.594 | 0.01 |
| 17 | 30 | Unbiased | 0.5821 | 0.5751 | -0.007 |
| 18 | 30 | Unbiased | 0.5845 | 0.5743 | -0.0102 |
| 19 | 30 | Unbiased | 0.5958 | 0.5763 | -0.0195 |
| 20 | 30 | Unbiased | 0.5909 | 0.5882 | -0.0027 |
| 21 | 50 | Bias | 0.5915 | 0.557 | -0.0345 |
| 22 | 50 | Bias | 0.593 | 0.5578 | -0.0352 |
| 23 | 50 | Bias | 0.5847 | 0.5586 | -0.0261 |
| 24 | 50 | Bias | 0.5884 | 0.5516 | -0.0368 |
| 25 | 50 | Bias | 0.5861 | 0.5493 | -0.0368 |
| 26 | 50 | Unbiased | 0.5899 | 0.5792 | -0.0107 |
| 27 | 50 | Unbiased | 0.5914 | 0.5797 | -0.0117 |
| 28 | 50 | Unbiased | 0.5881 | 0.576 | -0.0121 |
| 29 | 50 | Unbiased | 0.6059 | 0.5935 | -0.0124 |
| 30 | 50 | Unbiased | 0.5989 | 0.5868 | -0.0121 |
| 31 | 0 | Correlation | 0.5885 | 0.5882 | -0.0003 |
| 32 | 0 | Correlation | 0.5839 | 0.5834 | -0.0005 |
| 33 | 0 | Correlation | 0.5973 | 0.5965 | -0.0008 |
| 34 | 0 | Correlation | 0.5866 | 0.6007 | 0.0141 |

### Test Statistics (%)
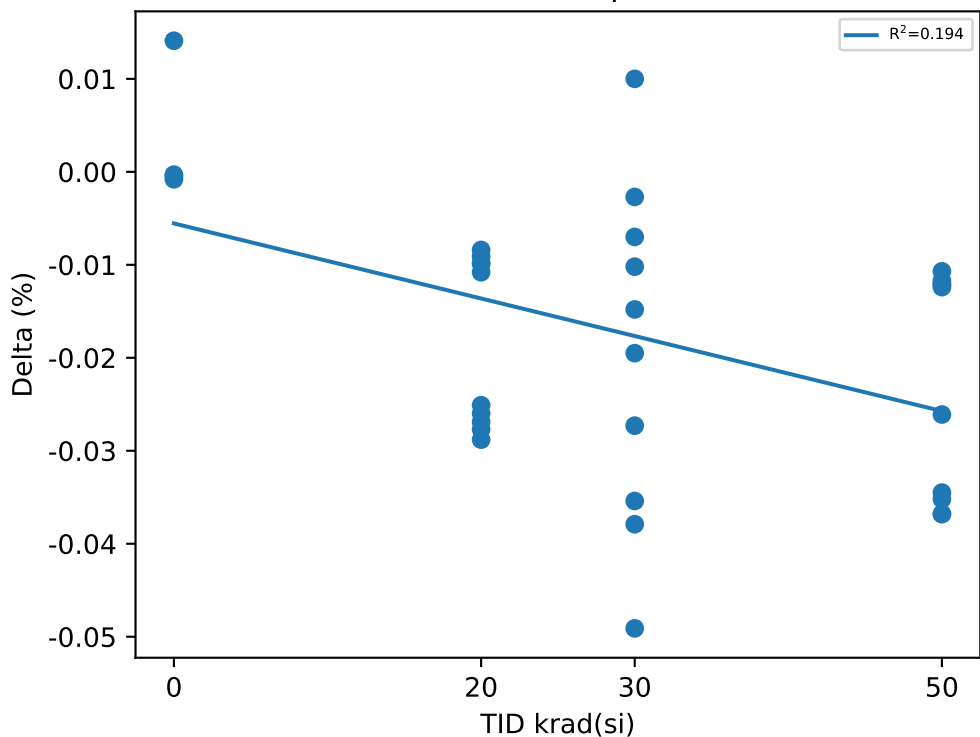
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.5839 | 0.58908 | 0.5973 | 0.0057991 | 0.5834 | 0.5922 | 0.6007 | 0.0078354 | -0.0008 | 0.003125 | 0.0141 | 0.0073196 |
| 20 | 0.5798 | 0.59307 | 0.6047 | 0.0082505 | 0.5538 | 0.57482 | 0.5901 | 0.011428 | -0.0288 | -0.01825 | -0.0084 | 0.0091881 |
| 30 | 0.5821 | 0.59417 | 0.6082 | 0.0099615 | 0.5546 | 0.57478 | 0.594 | 0.01074 | -0.0491 | -0.01939 | 0.01 | 0.018091 |
| 50 | 0.5847 | 0.59179 | 0.6059 | 0.006348 | 0.5493 | 0.56895 | 0.5935 | 0.015822 | -0.0368 | -0.02284 | -0.0107 | 0.01202 |

# Device Test: 15.7   VLDO_REG(_VLDO|V_VLDO/VLDO//14/0/0/0/@VLDO_REG )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 3.19, Upper Limit = 3.38 (V))

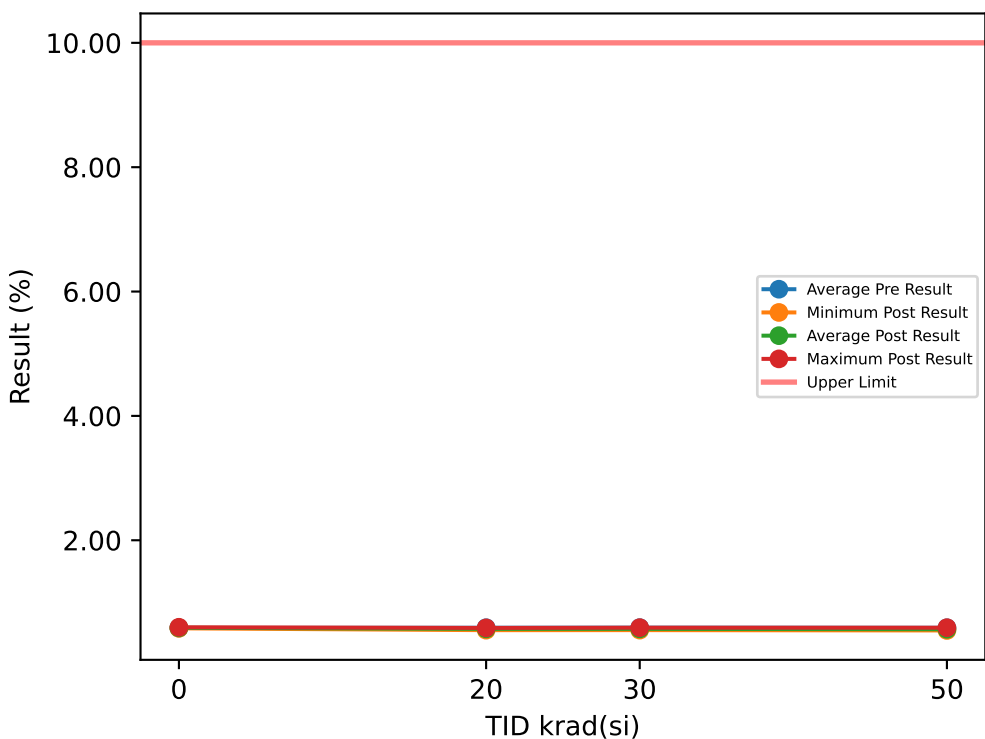| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.2836 | 3.2851 | 0.0015 |
| 2 | 20 | Bias | 3.2875 | 3.2879 | 0.0004 |
| 3 | 20 | Bias | 3.294 | 3.2963 | 0.0023 |
| 4 | 20 | Bias | 3.2893 | 3.2867 | -0.0026 |
| 5 | 20 | Bias | 3.292 | 3.2872 | -0.0048 |
| 6 | 20 | Unbiased | 3.3044 | 3.3087 | 0.0043 |
| 7 | 20 | Unbiased | 3.2855 | 3.2866 | 0.0011 |
| 8 | 20 | Unbiased | 3.3013 | 3.3015 | 0.0002 |
| 9 | 20 | Unbiased | 3.3036 | 3.3013 | -0.0023 |
| 10 | 20 | Unbiased | 3.275 | 3.2726 | -0.0024 |
| 11 | 30 | Bias | 3.3012 | 3.2905 | -0.0107 |
| 12 | 30 | Bias | 3.2857 | 3.2986 | 0.0129 |
| 13 | 30 | Bias | 3.2893 | 3.2877 | -0.0016 |
| 14 | 30 | Bias | 3.2815 | 3.2939 | 0.0124 |
| 15 | 30 | Bias | 3.2964 | 3.2831 | -0.0133 |
| 16 | 30 | Unbiased | 3.2904 | 3.2981 | 0.0077 |
| 17 | 30 | Unbiased | 3.2963 | 3.2903 | -0.006 |
| 18 | 30 | Unbiased | 3.287 | 3.2979 | 0.0109 |
| 19 | 30 | Unbiased | 3.2819 | 3.2897 | 0.0078 |
| 20 | 30 | Unbiased | 3.2943 | 3.2767 | -0.0176 |
| 21 | 50 | Bias | 3.3046 | 3.2935 | -0.0111 |
| 22 | 50 | Bias | 3.277 | 3.2976 | 0.0206 |
| 23 | 50 | Bias | 3.2892 | 3.2777 | -0.0115 |
| 24 | 50 | Bias | 3.2831 | 3.2851 | 0.002 |
| 25 | 50 | Bias | 3.2771 | 3.2752 | -0.0019 |
| 26 | 50 | Unbiased | 3.287 | 3.2869 | -0.0001 |
| 27 | 50 | Unbiased | 3.2757 | 3.2734 | -0.0023 |
| 28 | 50 | Unbiased | 3.2791 | 3.2795 | 0.0004 |
| 29 | 50 | Unbiased | 3.2918 | 3.2876 | -0.0042 |
| 30 | 50 | Unbiased | 3.2806 | 3.2823 | 0.0017 |
| 31 | 0 | Correlation | 3.2918 | 3.2918 | 0 |
| 32 | 0 | Correlation | 3.2905 | 3.2906 | 0.0001 |
| 33 | 0 | Correlation | 3.2821 | 3.2815 | -0.0006 |
| 34 | 0 | Correlation | 3.2968 | 3.2881 | -0.0087 |

## Test Statistics (V)
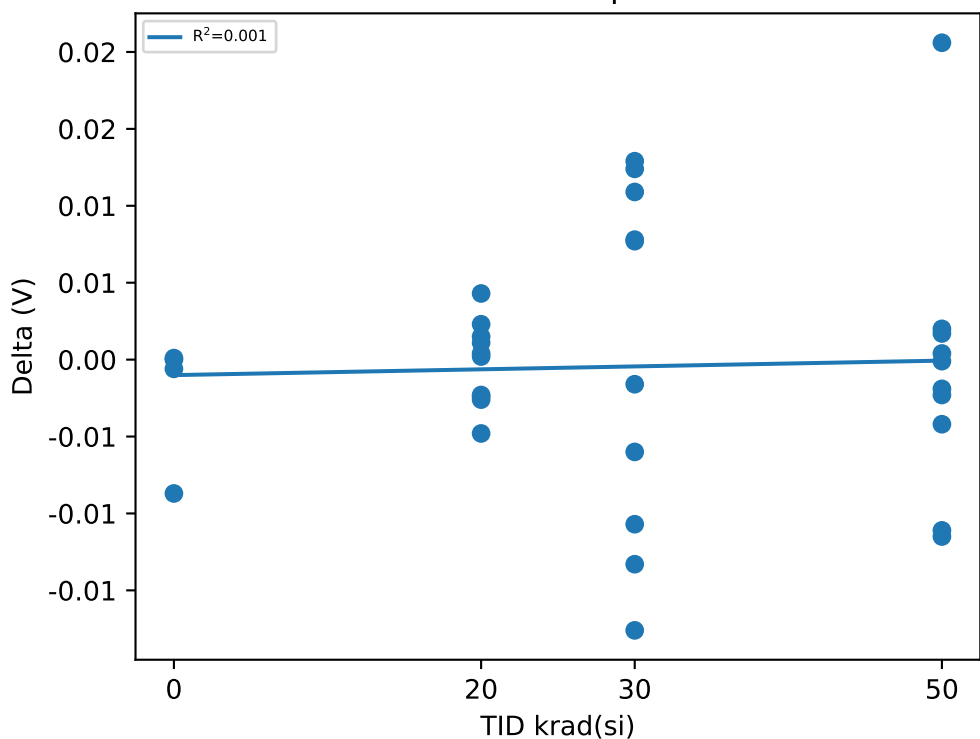
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.2821 | 3.2903 | 3.2968 | 0.0061041 | 3.2815 | 3.288 | 3.2918 | 0.0045993 | -0.0087 | -0.0023 | 0.0001 | 0.0042778 |
| 20 | 3.275 | 3.2916 | 3.3044 | 0.0094676 | 3.2726 | 3.2914 | 3.3087 | 0.010496 | -0.0048 | -0.00023 | 0.0043 | 0.0027439 |
| 30 | 3.2815 | 3.2904 | 3.3012 | 0.0065742 | 3.2767 | 3.2907 | 3.2986 | 0.0070173 | -0.0176 | 0.00025 | 0.0129 | 0.011538 |
| 50 | 3.2757 | 3.2845 | 3.3046 | 0.0089469 | 3.2734 | 3.2839 | 3.2976 | 0.0078193 | -0.0115 | -0.00064 | 0.0206 | 0.0088777 |

# Device Test: 15.70  VOL_EN_2MA(_EVEL|VOL/EN3/7/3/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

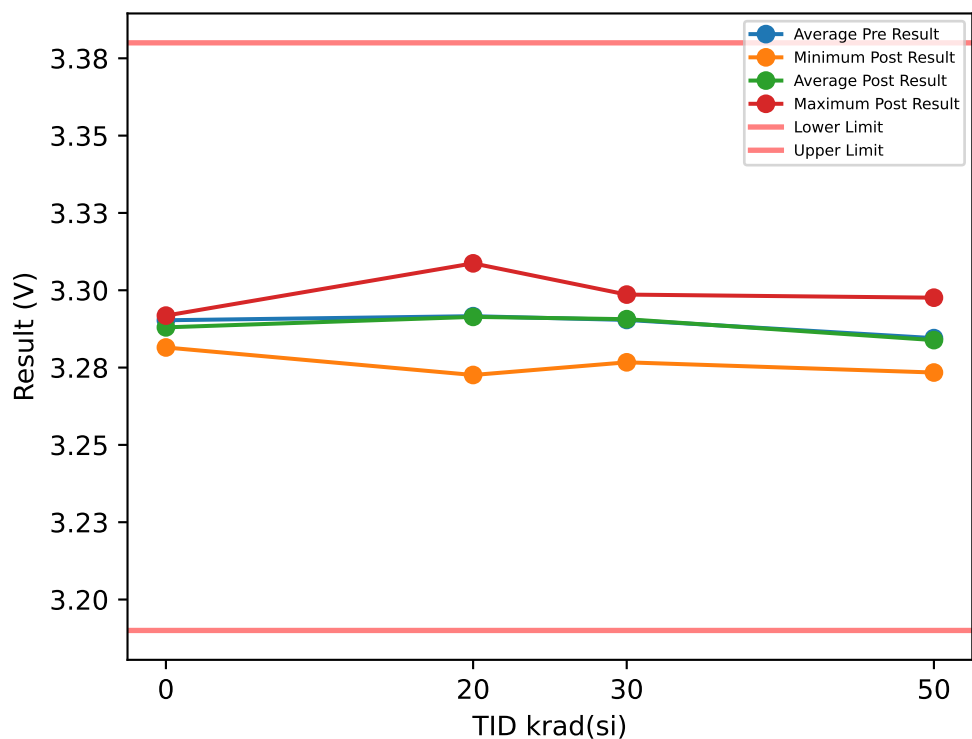| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.5854 | 0.5564 | -0.029 |
| 2 | 20 | Bias | 0.5881 | 0.5602 | -0.0279 |
| 3 | 20 | Bias | 0.5928 | 0.5648 | -0.028 |
| 4 | 20 | Bias | 0.5713 | 0.5447 | -0.0266 |
| 5 | 20 | Bias | 0.5775 | 0.5525 | -0.025 |
| 6 | 20 | Unbiased | 0.5847 | 0.5733 | -0.0114 |
| 7 | 20 | Unbiased | 0.5828 | 0.5739 | -0.0089 |
| 8 | 20 | Unbiased | 0.5871 | 0.5773 | -0.0098 |
| 9 | 20 | Unbiased | 0.5747 | 0.566 | -0.0087 |
| 10 | 20 | Unbiased | 0.5725 | 0.5634 | -0.0091 |
| 11 | 30 | Bias | 0.594 | 0.5578 | -0.0362 |
| 12 | 30 | Bias | 0.5957 | 0.5619 | -0.0338 |
| 13 | 30 | Bias | 0.5904 | 0.5642 | -0.0262 |
| 14 | 30 | Bias | 0.5776 | 0.5587 | -0.0189 |
| 15 | 30 | Bias | 0.5922 | 0.5466 | -0.0456 |
| 16 | 30 | Unbiased | 0.5734 | 0.5835 | 0.0101 |
| 17 | 30 | Unbiased | 0.5711 | 0.5655 | -0.0056 |
| 18 | 30 | Unbiased | 0.5731 | 0.5645 | -0.0086 |
| 19 | 30 | Unbiased | 0.5847 | 0.5659 | -0.0188 |
| 20 | 30 | Unbiased | 0.5828 | 0.5771 | -0.0057 |
| 21 | 50 | Bias | 0.5842 | 0.5489 | -0.0353 |
| 22 | 50 | Bias | 0.5856 | 0.5499 | -0.0357 |
| 23 | 50 | Bias | 0.574 | 0.5512 | -0.0228 |
| 24 | 50 | Bias | 0.5823 | 0.5414 | -0.0409 |
| 25 | 50 | Bias | 0.5751 | 0.5387 | -0.0364 |
| 26 | 50 | Unbiased | 0.5825 | 0.5714 | -0.0111 |
| 27 | 50 | Unbiased | 0.5862 | 0.5744 | -0.0118 |
| 28 | 50 | Unbiased | 0.5797 | 0.5676 | -0.0121 |
| 29 | 50 | Unbiased | 0.5954 | 0.5825 | -0.0129 |
| 30 | 50 | Unbiased | 0.5857 | 0.5743 | -0.0114 |
| 31 | 0 | Correlation | 0.578 | 0.5775 | -0.0005 |
| 32 | 0 | Correlation | 0.5758 | 0.5755 | -0.0003 |
| 33 | 0 | Correlation | 0.5872 | 0.5865 | -0.0007 |
| 34 | 0 | Correlation | 0.5795 | 0.5893 | 0.0098 |

## Test Statistics (%)
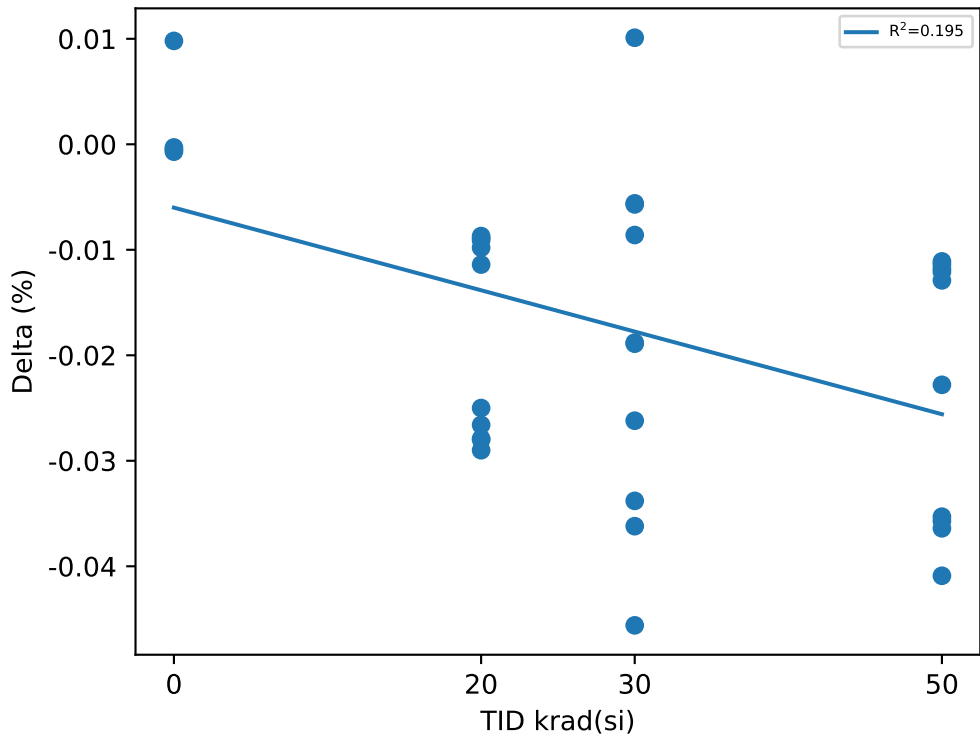
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.5758 | 0.58013 | 0.5872 | 0.0049554 | 0.5755 | 0.5822 | 0.5893 | 0.00673 | -0.0007 | 0.002075 | 0.0098 | 0.0051526 |
| 20 | 0.5713 | 0.58169 | 0.5928 | 0.0072776 | 0.5447 | 0.56325 | 0.5773 | 0.010207 | -0.029 | -0.01844 | -0.0087 | 0.0094242 |
| 30 | 0.5711 | 0.5835 | 0.5957 | 0.0093277 | 0.5466 | 0.56457 | 0.5835 | 0.010157 | -0.0456 | -0.01893 | 0.0101 | 0.01695 |
| 50 | 0.574 | 0.58307 | 0.5954 | 0.0060963 | 0.5387 | 0.56003 | 0.5825 | 0.015664 | -0.0409 | -0.02304 | -0.0111 | 0.012627 |

# Device Test: 15.71  VOL_EN_2MA(_EVEL|VOL/EN4/7/3/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

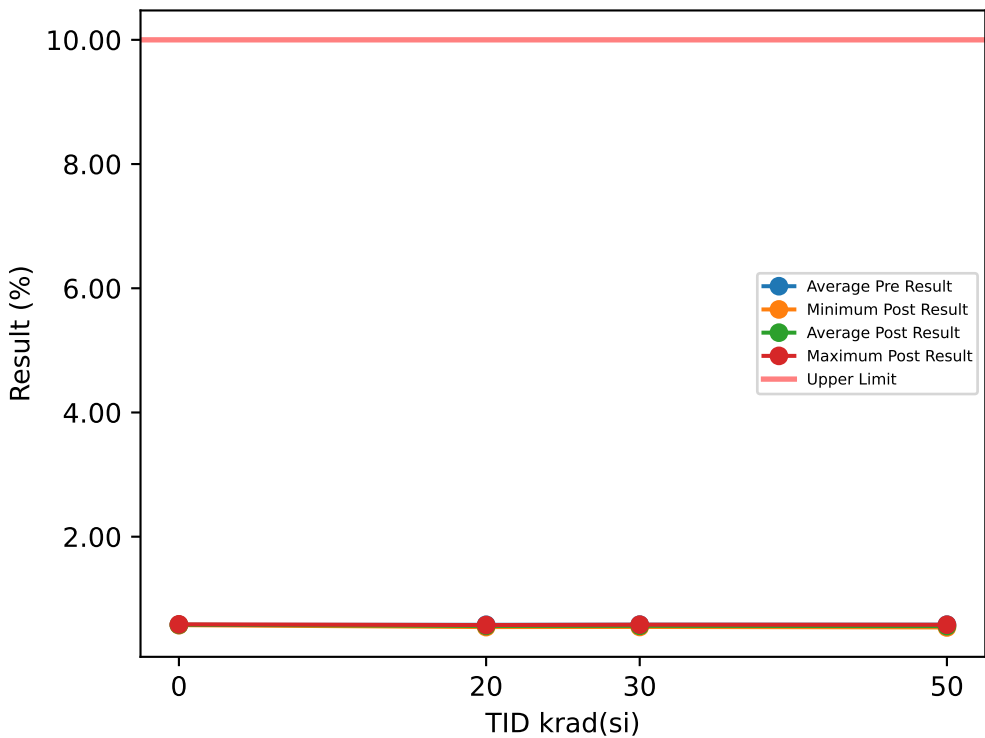| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.5703 | 0.5416 | -0.0287 |
| 2 | 20 | Bias | 0.5714 | 0.5444 | -0.027 |
| 3 | 20 | Bias | 0.5759 | 0.548 | -0.0279 |
| 4 | 20 | Bias | 0.5542 | 0.5289 | -0.0253 |
| 5 | 20 | Bias | 0.5647 | 0.5397 | -0.025 |
| 6 | 20 | Unbiased | 0.5726 | 0.562 | -0.0106 |
| 7 | 20 | Unbiased | 0.5696 | 0.5607 | -0.0089 |
| 8 | 20 | Unbiased | 0.5698 | 0.5601 | -0.0097 |
| 9 | 20 | Unbiased | 0.5584 | 0.5502 | -0.0082 |
| 10 | 20 | Unbiased | 0.5568 | 0.5484 | -0.0084 |
| 11 | 30 | Bias | 0.5787 | 0.5413 | -0.0374 |
| 12 | 30 | Bias | 0.5806 | 0.5467 | -0.0339 |
| 13 | 30 | Bias | 0.576 | 0.5494 | -0.0266 |
| 14 | 30 | Bias | 0.5591 | 0.5443 | -0.0148 |
| 15 | 30 | Bias | 0.578 | 0.5296 | -0.0484 |
| 16 | 30 | Unbiased | 0.5583 | 0.5697 | 0.0114 |
| 17 | 30 | Unbiased | 0.5542 | 0.5501 | -0.0041 |
| 18 | 30 | Unbiased | 0.5559 | 0.5472 | -0.0087 |
| 19 | 30 | Unbiased | 0.5698 | 0.5492 | -0.0206 |
| 20 | 30 | Unbiased | 0.5669 | 0.5625 | -0.0044 |
| 21 | 50 | Bias | 0.5697 | 0.5341 | -0.0356 |
| 22 | 50 | Bias | 0.5689 | 0.5356 | -0.0333 |
| 23 | 50 | Bias | 0.559 | 0.5349 | -0.0241 |
| 24 | 50 | Bias | 0.5679 | 0.5269 | -0.041 |
| 25 | 50 | Bias | 0.5636 | 0.5274 | -0.0362 |
| 26 | 50 | Unbiased | 0.5657 | 0.5541 | -0.0116 |
| 27 | 50 | Unbiased | 0.567 | 0.5556 | -0.0114 |
| 28 | 50 | Unbiased | 0.5661 | 0.5541 | -0.012 |
| 29 | 50 | Unbiased | 0.5809 | 0.5685 | -0.0124 |
| 30 | 50 | Unbiased | 0.5701 | 0.559 | -0.0111 |
| 31 | 0 | Correlation | 0.563 | 0.5631 | 0.0001 |
| 32 | 0 | Correlation | 0.5634 | 0.5622 | -0.0012 |
| 33 | 0 | Correlation | 0.573 | 0.5723 | -0.0007 |
| 34 | 0 | Correlation | 0.5653 | 0.5723 | 0.007 |

## Test Statistics (%)
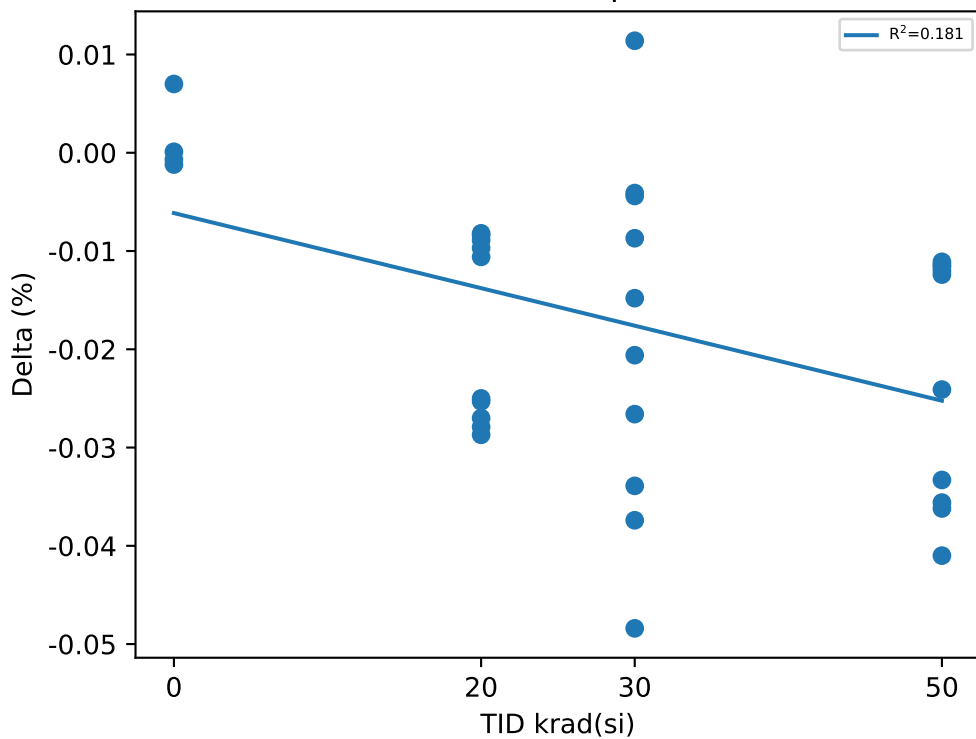
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.563 | 0.56617 | 0.573 | 0.0046593 | 0.5622 | 0.56748 | 0.5723 | 0.0055835 | -0.0012 | 0.0013 | 0.007 | 0.0038375 |
| 20 | 0.5542 | 0.56637 | 0.5759 | 0.007443 | 0.5289 | 0.5484 | 0.562 | 0.010513 | -0.0287 | -0.01797 | -0.0082 | 0.0093716 |
| 30 | 0.5542 | 0.56775 | 0.5806 | 0.010281 | 0.5296 | 0.549 | 0.5697 | 0.010946 | -0.0484 | -0.01875 | 0.0114 | 0.018159 |
| 50 | 0.559 | 0.56789 | 0.5809 | 0.005624 | 0.5269 | 0.54502 | 0.5685 | 0.014805 | -0.041 | -0.02287 | -0.0111 | 0.012488 |
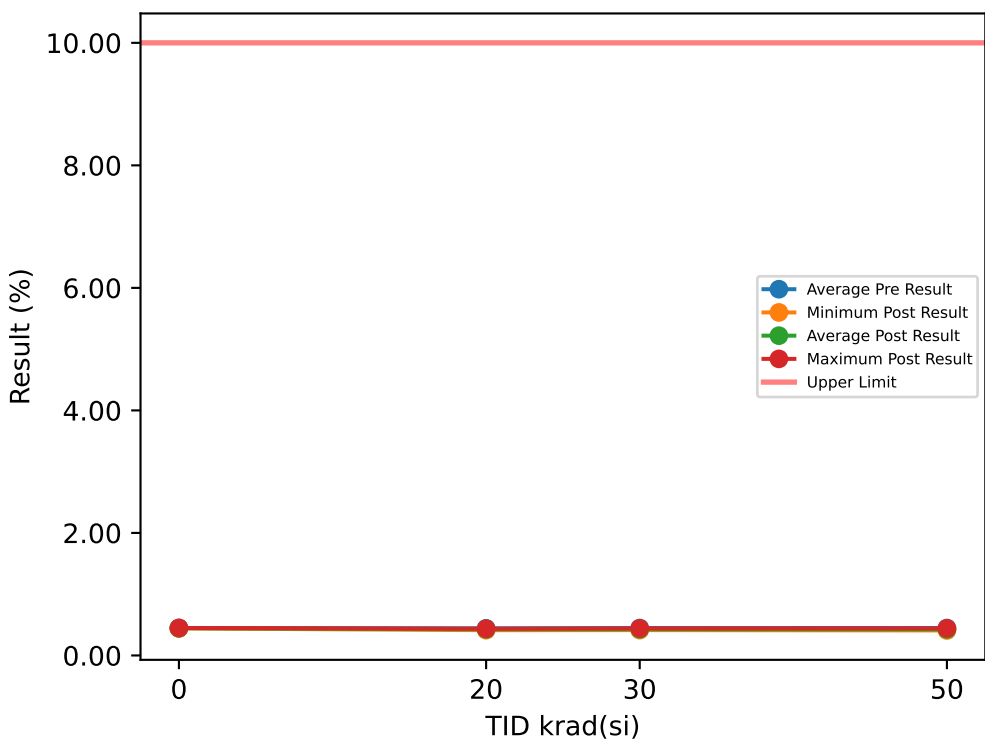
# Device Test: 15.72  VOL_SEQ_DONE_2MA(_EVEL|VOL/SEQ_DONE/7/3/0/0/2/@VOL_SEQ_DONE_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



R²=0.199

## Test Results (Upper Limit = 10.0 (%))

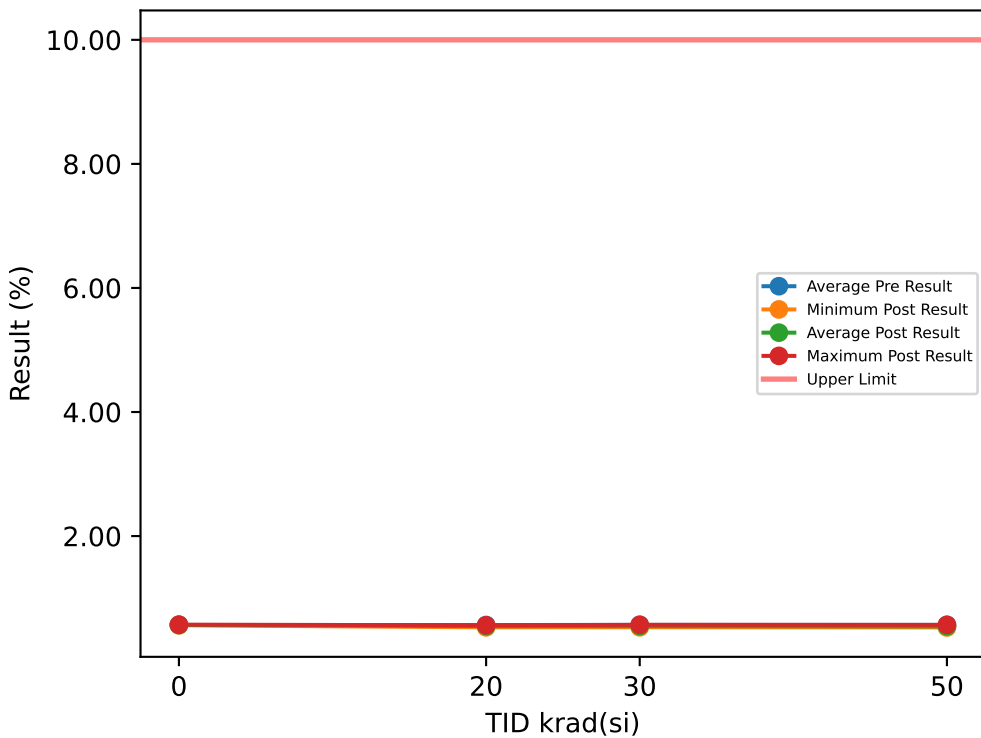| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.4464 | 0.4202 | -0.0262 |
| 2 | 20 | Bias | 0.4465 | 0.4219 | -0.0246 |
| 3 | 20 | Bias | 0.4546 | 0.43 | -0.0246 |
| 4 | 20 | Bias | 0.4363 | 0.4123 | -0.024 |
| 5 | 20 | Bias | 0.4389 | 0.417 | -0.0219 |
| 6 | 20 | Unbiased | 0.4449 | 0.4362 | -0.0087 |
| 7 | 20 | Unbiased | 0.4418 | 0.4346 | -0.0072 |
| 8 | 20 | Unbiased | 0.4418 | 0.4341 | -0.0077 |
| 9 | 20 | Unbiased | 0.4378 | 0.4303 | -0.0075 |
| 10 | 20 | Unbiased | 0.4391 | 0.4319 | -0.0072 |
| 11 | 30 | Bias | 0.452 | 0.4158 | -0.0362 |
| 12 | 30 | Bias | 0.4547 | 0.4203 | -0.0344 |
| 13 | 30 | Bias | 0.4482 | 0.4242 | -0.024 |
| 14 | 30 | Bias | 0.4433 | 0.4183 | -0.025 |
| 15 | 30 | Bias | 0.4499 | 0.4138 | -0.0361 |
| 16 | 30 | Unbiased | 0.4405 | 0.4421 | 0.0016 |
| 17 | 30 | Unbiased | 0.4412 | 0.4325 | -0.0087 |
| 18 | 30 | Unbiased | 0.4462 | 0.4339 | -0.0123 |
| 19 | 30 | Unbiased | 0.4447 | 0.4388 | -0.0059 |
| 20 | 30 | Unbiased | 0.4535 | 0.4368 | -0.0167 |
| 21 | 50 | Bias | 0.4505 | 0.419 | -0.0315 |
| 22 | 50 | Bias | 0.4481 | 0.416 | -0.0321 |
| 23 | 50 | Bias | 0.4406 | 0.4136 | -0.027 |
| 24 | 50 | Bias | 0.4453 | 0.4081 | -0.0372 |
| 25 | 50 | Bias | 0.4455 | 0.4096 | -0.0359 |
| 26 | 50 | Unbiased | 0.4523 | 0.4409 | -0.0114 |
| 27 | 50 | Unbiased | 0.4484 | 0.4372 | -0.0112 |
| 28 | 50 | Unbiased | 0.4417 | 0.4298 | -0.0119 |
| 29 | 50 | Unbiased | 0.4536 | 0.4418 | -0.0118 |
| 30 | 50 | Unbiased | 0.4494 | 0.4377 | -0.0117 |
| 31 | 0 | Correlation | 0.4433 | 0.4416 | -0.0017 |
| 32 | 0 | Correlation | 0.444 | 0.4426 | -0.0014 |
| 33 | 0 | Correlation | 0.4502 | 0.4488 | -0.0014 |
| 34 | 0 | Correlation | 0.453 | 0.4457 | -0.0073 |

## Test Statistics (%)
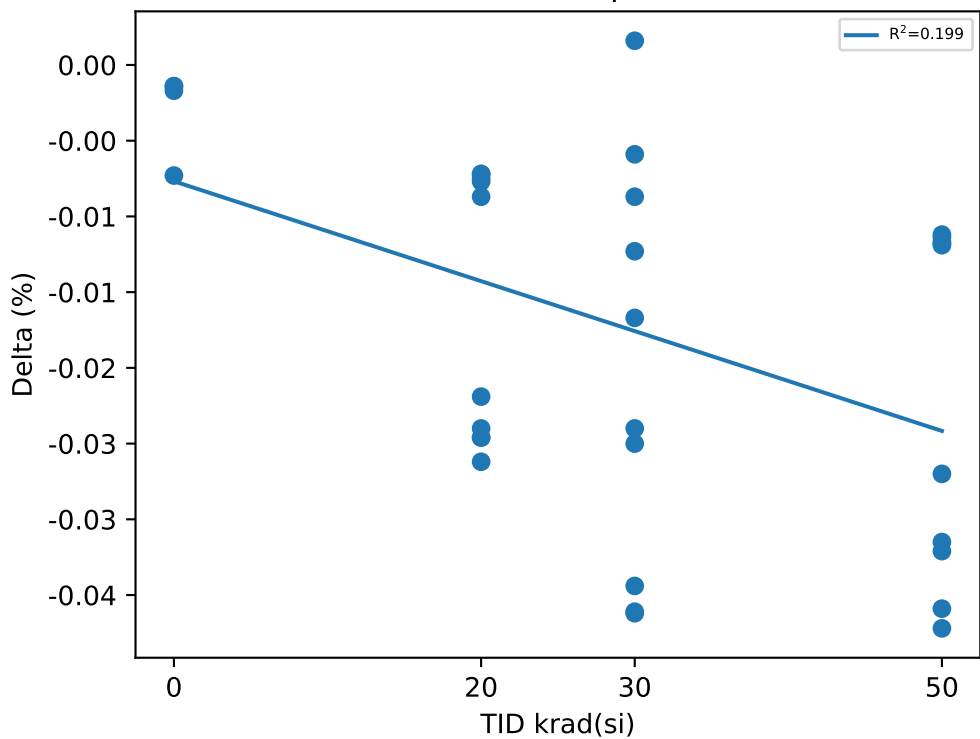
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.4433 | 0.44762 | 0.453 | 0.0047388 | 0.4416 | 0.44467 | 0.4488 | 0.0032572 | -0.0073 | -0.00295 | -0.0014 | 0.0029034 |
| 20 | 0.4363 | 0.44281 | 0.4546 | 0.0054615 | 0.4123 | 0.42685 | 0.4362 | 0.0083322 | -0.0262 | -0.01596 | -0.0072 | 0.0088196 |
| 30 | 0.4405 | 0.44742 | 0.4547 | 0.0050567 | 0.4138 | 0.42765 | 0.4421 | 0.010355 | -0.0362 | -0.01977 | 0.0016 | 0.013469 |
| 50 | 0.4406 | 0.44754 | 0.4536 | 0.0042701 | 0.4081 | 0.42537 | 0.4418 | 0.013485 | -0.0372 | -0.02217 | -0.0112 | 0.011462 |

# Device Test: 15.73  VOL_PWRGD_2MA(_EVEL|VOL/PWRGD/7/3/0/0/2/@VOL_PWRGD_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.4416 | 0.4152 | -0.0264 |
| 2 | 20 | Bias | 0.4435 | 0.4173 | -0.0262 |
| 3 | 20 | Bias | 0.4474 | 0.4215 | -0.0259 |
| 4 | 20 | Bias | 0.4276 | 0.4041 | -0.0235 |
| 5 | 20 | Bias | 0.4363 | 0.4136 | -0.0227 |
| 6 | 20 | Unbiased | 0.4409 | 0.4313 | -0.0096 |
| 7 | 20 | Unbiased | 0.4401 | 0.4315 | -0.0086 |
| 8 | 20 | Unbiased | 0.4383 | 0.4296 | -0.0087 |
| 9 | 20 | Unbiased | 0.4307 | 0.4222 | -0.0085 |
| 10 | 20 | Unbiased | 0.4286 | 0.4208 | -0.0078 |
| 11 | 30 | Bias | 0.4442 | 0.4127 | -0.0315 |
| 12 | 30 | Bias | 0.4493 | 0.4146 | -0.0347 |
| 13 | 30 | Bias | 0.4451 | 0.4205 | -0.0246 |
| 14 | 30 | Bias | 0.4339 | 0.4168 | -0.0171 |
| 15 | 30 | Bias | 0.4442 | 0.4069 | -0.0373 |
| 16 | 30 | Unbiased | 0.4296 | 0.4383 | 0.0087 |
| 17 | 30 | Unbiased | 0.4306 | 0.4236 | -0.007 |
| 18 | 30 | Unbiased | 0.4374 | 0.4247 | -0.0127 |
| 19 | 30 | Unbiased | 0.439 | 0.4311 | -0.0079 |
| 20 | 30 | Unbiased | 0.4441 | 0.4318 | -0.0123 |
| 21 | 50 | Bias | 0.4438 | 0.411 | -0.0328 |
| 22 | 50 | Bias | 0.4431 | 0.4102 | -0.0329 |
| 23 | 50 | Bias | 0.4348 | 0.4091 | -0.0257 |
| 24 | 50 | Bias | 0.4365 | 0.4037 | -0.0328 |
| 25 | 50 | Bias | 0.4375 | 0.4006 | -0.0369 |
| 26 | 50 | Unbiased | 0.4379 | 0.4263 | -0.0116 |
| 27 | 50 | Unbiased | 0.4423 | 0.4299 | -0.0124 |
| 28 | 50 | Unbiased | 0.4371 | 0.4259 | -0.0112 |
| 29 | 50 | Unbiased | 0.4484 | 0.4356 | -0.0128 |
| 30 | 50 | Unbiased | 0.4441 | 0.4323 | -0.0118 |
| 31 | 0 | Correlation | 0.4353 | 0.4347 | -0.0006 |
| 32 | 0 | Correlation | 0.4334 | 0.4322 | -0.0012 |
| 33 | 0 | Correlation | 0.4443 | 0.4431 | -0.0012 |
| 34 | 0 | Correlation | 0.445 | 0.4407 | -0.0043 |

## Test Statistics (%)
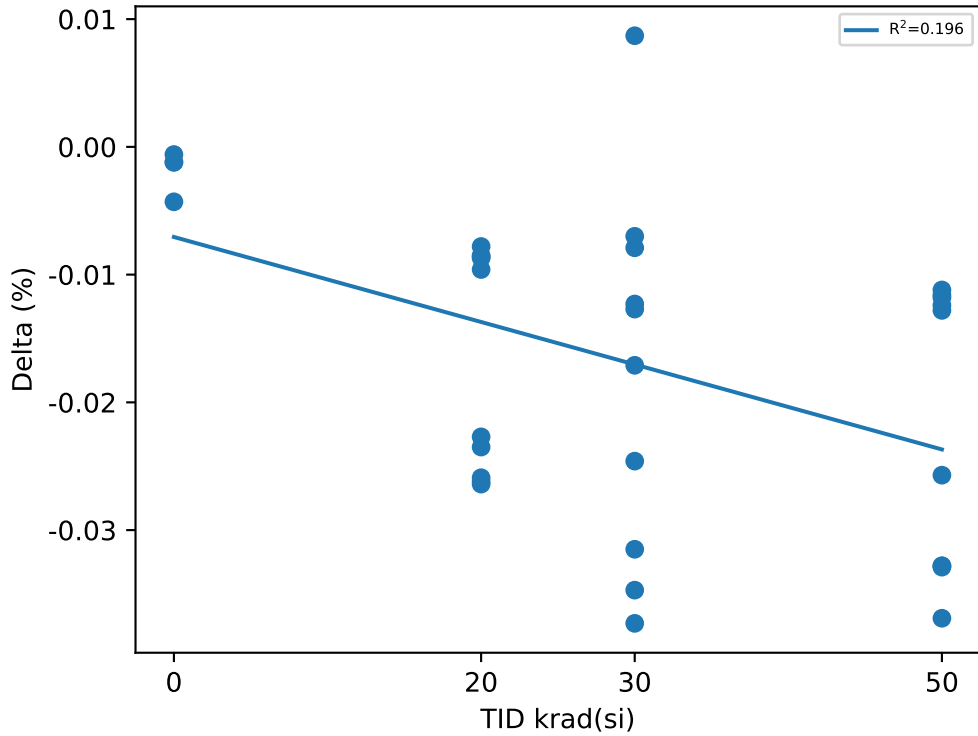
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.4334 | 0.4395 | 0.445 | 0.0060039 | 0.4322 | 0.43767 | 0.4431 | 0.0050796 | -0.0043 | -0.001825 | -0.0006 | 0.0016741 |
| 20 | 0.4276 | 0.4375 | 0.4474 | 0.0066222 | 0.4041 | 0.42071 | 0.4315 | 0.0086852 | -0.0264 | -0.01679 | -0.0078 | 0.008677 |
| 30 | 0.4296 | 0.43974 | 0.4493 | 0.0067115 | 0.4069 | 0.4221 | 0.4383 | 0.0097345 | -0.0373 | -0.01764 | 0.0087 | 0.014427 |
| 50 | 0.4348 | 0.44055 | 0.4484 | 0.0043722 | 0.4006 | 0.41846 | 0.4356 | 0.012829 | -0.0369 | -0.02209 | -0.0112 | 0.011022 |
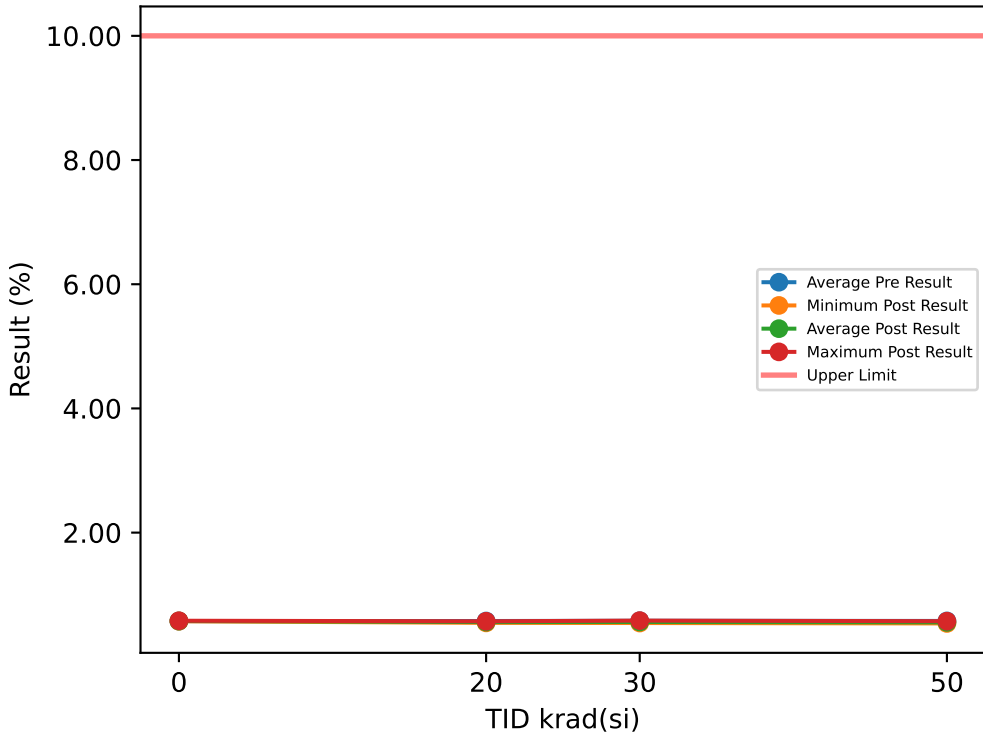
# Device Test: 15.74  VOL_EN_2MA(_EVEL|VOL/EN1/7/14/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

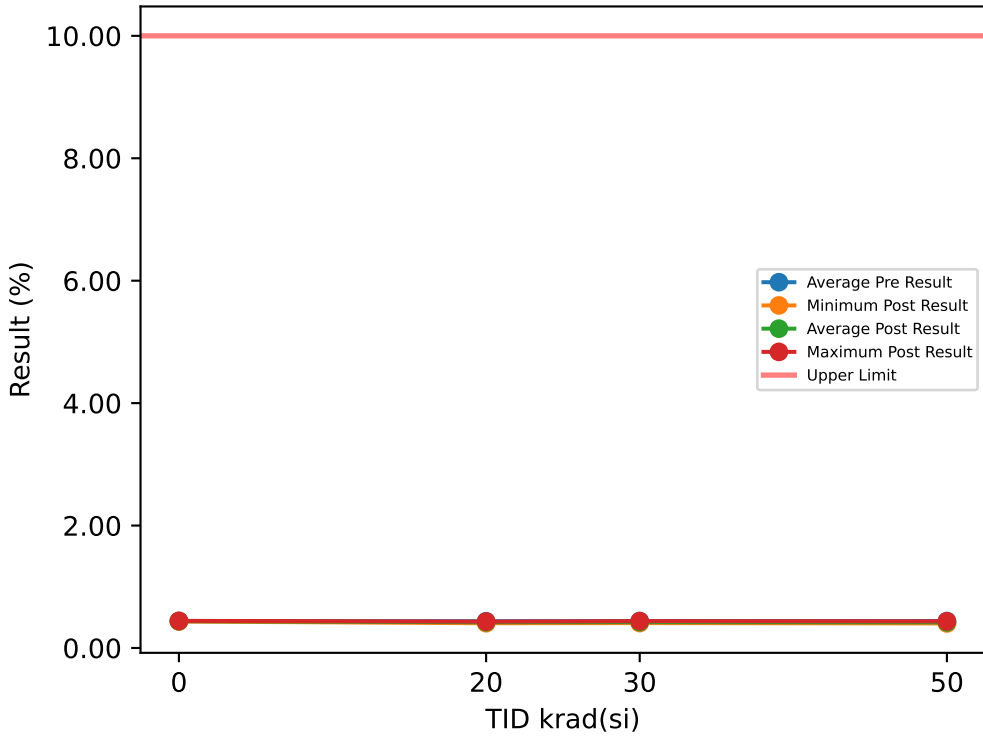| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 0.5758 | 0.5481 | -0.0277 |
| 2 | 20 | Bias | 0.5762 | 0.5502 | -0.026 |
| 3 | 20 | Bias | 0.5824 | 0.5561 | -0.0263 |
| 4 | 20 | Bias | 0.5713 | 0.5465 | -0.0248 |
| 5 | 20 | Bias | 0.5766 | 0.551 | -0.0256 |
| 6 | 20 | Unbiased | 0.5812 | 0.5707 | -0.0105 |
| 7 | 20 | Unbiased | 0.5796 | 0.571 | -0.0086 |
| 8 | 20 | Unbiased | 0.5667 | 0.5576 | -0.0091 |
| 9 | 20 | Unbiased | 0.5758 | 0.5675 | -0.0083 |
| 10 | 20 | Unbiased | 0.5806 | 0.5721 | -0.0085 |
| 11 | 30 | Bias | 0.5851 | 0.5487 | -0.0364 |
| 12 | 30 | Bias | 0.585 | 0.553 | -0.032 |
| 13 | 30 | Bias | 0.5816 | 0.5539 | -0.0277 |
| 14 | 30 | Bias | 0.5756 | 0.5495 | -0.0261 |
| 15 | 30 | Bias | 0.5933 | 0.544 | -0.0493 |
| 16 | 30 | Unbiased | 0.5763 | 0.5833 | 0.007 |
| 17 | 30 | Unbiased | 0.5703 | 0.5678 | -0.0025 |
| 18 | 30 | Unbiased | 0.575 | 0.5617 | -0.0133 |
| 19 | 30 | Unbiased | 0.5885 | 0.5665 | -0.022 |
| 20 | 30 | Unbiased | 0.5707 | 0.5799 | 0.0092 |
| 21 | 50 | Bias | 0.5751 | 0.5374 | -0.0377 |
| 22 | 50 | Bias | 0.5787 | 0.5408 | -0.0379 |
| 23 | 50 | Bias | 0.5795 | 0.5446 | -0.0349 |
| 24 | 50 | Bias | 0.5767 | 0.5445 | -0.0322 |
| 25 | 50 | Bias | 0.5726 | 0.5372 | -0.0354 |
| 26 | 50 | Unbiased | 0.5729 | 0.5626 | -0.0103 |
| 27 | 50 | Unbiased | 0.575 | 0.5646 | -0.0104 |
| 28 | 50 | Unbiased | 0.5832 | 0.5726 | -0.0106 |
| 29 | 50 | Unbiased | 0.5844 | 0.5735 | -0.0109 |
| 30 | 50 | Unbiased | 0.5786 | 0.5671 | -0.0115 |
| 31 | 0 | Correlation | 0.5806 | 0.5811 | 0.0005 |
| 32 | 0 | Correlation | 0.573 | 0.5726 | -0.0004 |
| 33 | 0 | Correlation | 0.5749 | 0.5754 | 0.0005 |
| 34 | 0 | Correlation | 0.569 | 0.58 | 0.011 |

## Test Statistics (%)
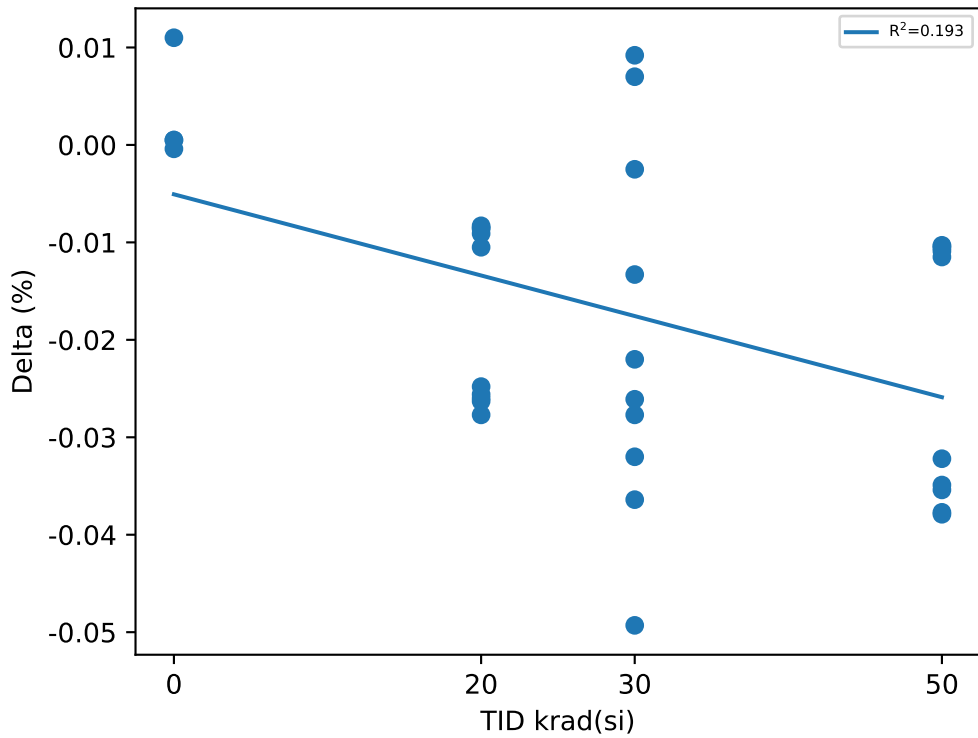
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.569 | 0.57437 | 0.5806 | 0.0048238 | 0.5726 | 0.57727 | 0.5811 | 0.0039761 | -0.0004 | 0.0029 | 0.011 | 0.0054166 |
| 20 | 0.5667 | 0.57662 | 0.5824 | 0.0047997 | 0.5465 | 0.55908 | 0.5721 | 0.010282 | -0.0277 | -0.01754 | -0.0083 | 0.0090494 |
| 30 | 0.5703 | 0.58014 | 0.5933 | 0.0077542 | 0.544 | 0.56083 | 0.5833 | 0.013409 | -0.0493 | -0.01931 | 0.0092 | 0.019148 |
| 50 | 0.5726 | 0.57767 | 0.5844 | 0.0040039 | 0.5372 | 0.55449 | 0.5735 | 0.014879 | -0.0379 | -0.02318 | -0.0103 | 0.013209 |

# Device Test: 15.75  VOL_EN_2MA(_EVEL|VOL/EN2/7/14/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.5748 | 0.5463 | -0.0285 |
| 2 | 20 | Bias | 0.5747 | 0.5477 | -0.027 |
| 3 | 20 | Bias | 0.5814 | 0.5543 | -0.0271 |
| 4 | 20 | Bias | 0.5596 | 0.5343 | -0.0253 |
| 5 | 20 | Bias | 0.5669 | 0.5423 | -0.0246 |
| 6 | 20 | Unbiased | 0.5749 | 0.5643 | -0.0106 |
| 7 | 20 | Unbiased | 0.5751 | 0.5662 | -0.0089 |
| 8 | 20 | Unbiased | 0.5767 | 0.567 | -0.0097 |
| 9 | 20 | Unbiased | 0.5633 | 0.5543 | -0.009 |
| 10 | 20 | Unbiased | 0.5622 | 0.554 | -0.0082 |
| 11 | 30 | Bias | 0.5798 | 0.5467 | -0.0331 |
| 12 | 30 | Bias | 0.5839 | 0.5482 | -0.0357 |
| 13 | 30 | Bias | 0.5803 | 0.5532 | -0.0271 |
| 14 | 30 | Bias | 0.5639 | 0.5488 | -0.0151 |
| 15 | 30 | Bias | 0.5806 | 0.5342 | -0.0464 |
| 16 | 30 | Unbiased | 0.5631 | 0.5716 | 0.0085 |
| 17 | 30 | Unbiased | 0.5596 | 0.5552 | -0.0044 |
| 18 | 30 | Unbiased | 0.5622 | 0.5523 | -0.0099 |
| 19 | 30 | Unbiased | 0.5743 | 0.555 | -0.0193 |
| 20 | 30 | Unbiased | 0.568 | 0.5672 | -0.0008 |
| 21 | 50 | Bias | 0.5687 | 0.5352 | -0.0335 |
| 22 | 50 | Bias | 0.5716 | 0.5351 | -0.0365 |
| 23 | 50 | Bias | 0.5621 | 0.5377 | -0.0244 |
| 24 | 50 | Bias | 0.5669 | 0.5308 | -0.0361 |
| 25 | 50 | Bias | 0.5655 | 0.5303 | -0.0352 |
| 26 | 50 | Unbiased | 0.5676 | 0.5574 | -0.0102 |
| 27 | 50 | Unbiased | 0.5705 | 0.5601 | -0.0104 |
| 28 | 50 | Unbiased | 0.5671 | 0.5563 | -0.0108 |
| 29 | 50 | Unbiased | 0.5819 | 0.571 | -0.0109 |
| 30 | 50 | Unbiased | 0.5776 | 0.5663 | -0.0113 |
| 31 | 0 | Correlation | 0.5663 | 0.5655 | -0.0008 |
| 32 | 0 | Correlation | 0.5624 | 0.5618 | -0.0006 |
| 33 | 0 | Correlation | 0.5747 | 0.5747 | 0 |
| 34 | 0 | Correlation | 0.5634 | 0.5779 | 0.0145 |

## Test Statistics (%)
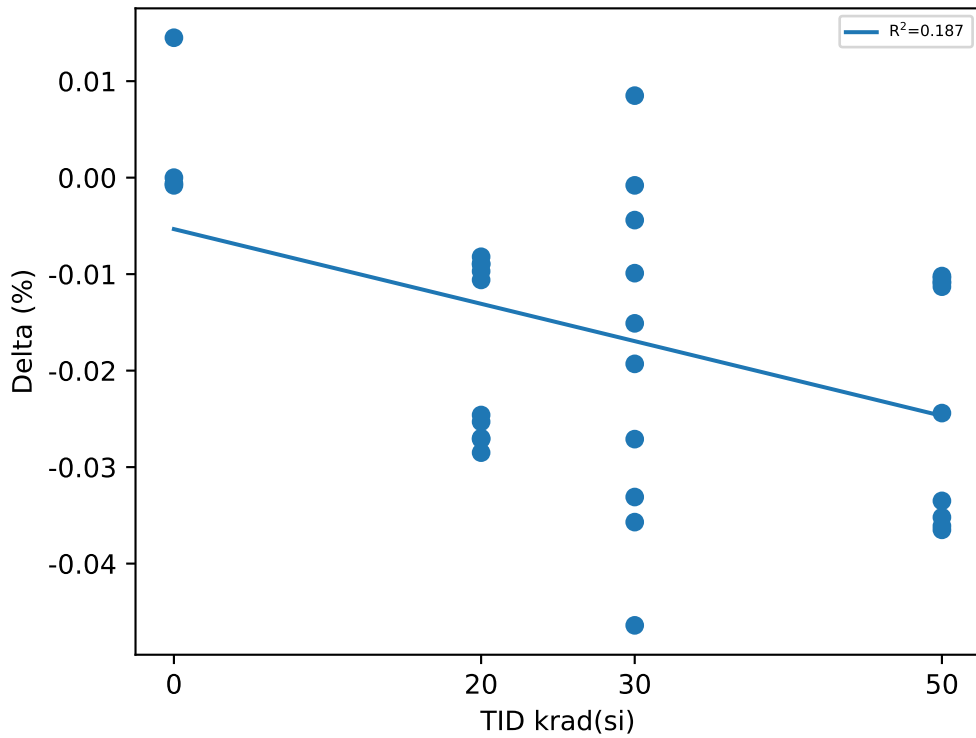
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.5624 | 0.5667 | 0.5747 | 0.0055839 | 0.5618 | 0.56998 | 0.5779 | 0.0075716 | -0.0008 | 0.003275 | 0.0145 | 0.0074911 |
| 20 | 0.5596 | 0.57096 | 0.5814 | 0.0073355 | 0.5343 | 0.55307 | 0.567 | 0.010747 | -0.0285 | -0.01789 | -0.0082 | 0.0091548 |
| 30 | 0.5596 | 0.57157 | 0.5839 | 0.0091855 | 0.5342 | 0.55324 | 0.5716 | 0.010489 | -0.0464 | -0.01833 | 0.0085 | 0.017283 |
| 50 | 0.5621 | 0.56995 | 0.5819 | 0.0058716 | 0.5303 | 0.54802 | 0.571 | 0.015681 | -0.0365 | -0.02193 | -0.0102 | 0.012285 |
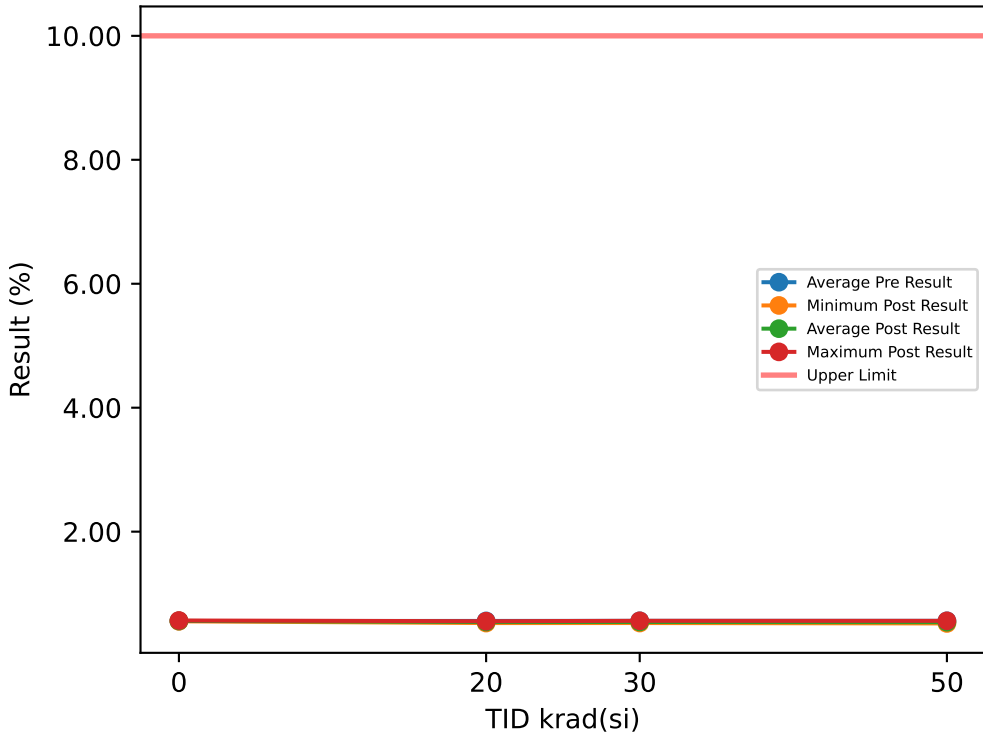
# Device Test: 15.76  VOL_EN_2MA(_EVEL|VOL/EN3/7/14/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

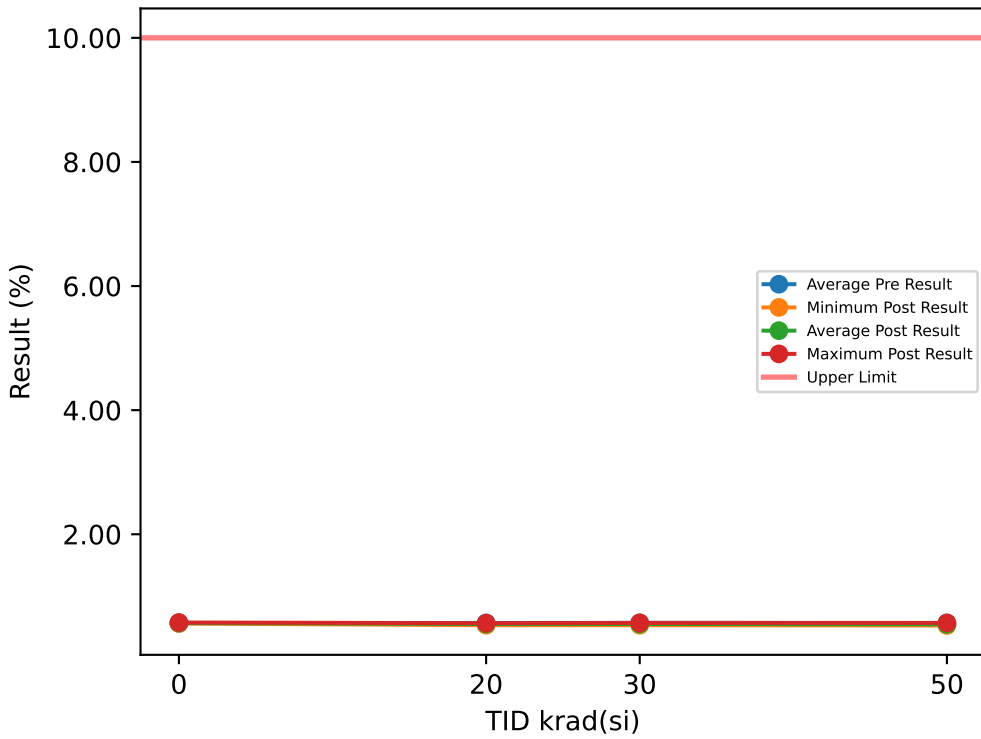| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.564 | 0.5346 | -0.0294 |
| 2 | 20 | Bias | 0.5666 | 0.5388 | -0.0278 |
| 3 | 20 | Bias | 0.5689 | 0.5418 | -0.0271 |
| 4 | 20 | Bias | 0.5499 | 0.5251 | -0.0248 |
| 5 | 20 | Bias | 0.5555 | 0.5307 | -0.0248 |
| 6 | 20 | Unbiased | 0.5612 | 0.5503 | -0.0109 |
| 7 | 20 | Unbiased | 0.5612 | 0.5525 | -0.0087 |
| 8 | 20 | Unbiased | 0.5641 | 0.5549 | -0.0092 |
| 9 | 20 | Unbiased | 0.5527 | 0.544 | -0.0087 |
| 10 | 20 | Unbiased | 0.5515 | 0.5435 | -0.008 |
| 11 | 30 | Bias | 0.5706 | 0.5355 | -0.0351 |
| 12 | 30 | Bias | 0.5718 | 0.5391 | -0.0327 |
| 13 | 30 | Bias | 0.5681 | 0.5407 | -0.0274 |
| 14 | 30 | Bias | 0.5553 | 0.5363 | -0.019 |
| 15 | 30 | Bias | 0.5692 | 0.5256 | -0.0436 |
| 16 | 30 | Unbiased | 0.552 | 0.5615 | 0.0095 |
| 17 | 30 | Unbiased | 0.5491 | 0.5451 | -0.004 |
| 18 | 30 | Unbiased | 0.5508 | 0.5425 | -0.0083 |
| 19 | 30 | Unbiased | 0.5624 | 0.5439 | -0.0185 |
| 20 | 30 | Unbiased | 0.5595 | 0.5561 | -0.0034 |
| 21 | 50 | Bias | 0.5606 | 0.527 | -0.0336 |
| 22 | 50 | Bias | 0.5634 | 0.5277 | -0.0357 |
| 23 | 50 | Bias | 0.5522 | 0.5306 | -0.0216 |
| 24 | 50 | Bias | 0.5599 | 0.5216 | -0.0383 |
| 25 | 50 | Bias | 0.5547 | 0.5188 | -0.0359 |
| 26 | 50 | Unbiased | 0.5598 | 0.5497 | -0.0101 |
| 27 | 50 | Unbiased | 0.5641 | 0.5539 | -0.0102 |
| 28 | 50 | Unbiased | 0.5588 | 0.5477 | -0.0111 |
| 29 | 50 | Unbiased | 0.5716 | 0.5609 | -0.0107 |
| 30 | 50 | Unbiased | 0.5647 | 0.5537 | -0.011 |
| 31 | 0 | Correlation | 0.5565 | 0.5558 | -0.0007 |
| 32 | 0 | Correlation | 0.5538 | 0.5533 | -0.0005 |
| 33 | 0 | Correlation | 0.565 | 0.5645 | -0.0005 |
| 34 | 0 | Correlation | 0.5568 | 0.5668 | 0.01 |

## Test Statistics (%)
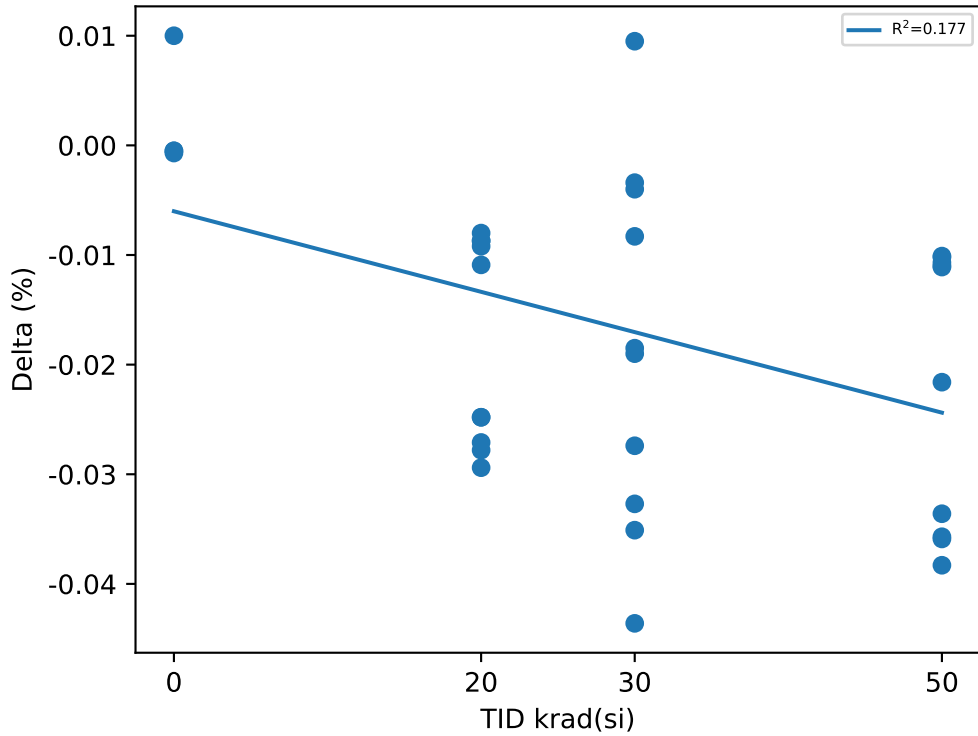
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.5538 | 0.55802 | 0.565 | 0.0048417 | 0.5533 | 0.5601 | 0.5668 | 0.0065569 | -0.0007 | 0.002075 | 0.01 | 0.0052842 |
| 20 | 0.5499 | 0.55956 | 0.5689 | 0.0067026 | 0.5251 | 0.54162 | 0.5549 | 0.0095957 | -0.0294 | -0.01794 | -0.008 | 0.0094404 |
| 30 | 0.5491 | 0.56088 | 0.5718 | 0.0087538 | 0.5256 | 0.54263 | 0.5615 | 0.010233 | -0.0436 | -0.01825 | 0.0095 | 0.016708 |
| 50 | 0.5522 | 0.56098 | 0.5716 | 0.0054385 | 0.5188 | 0.53916 | 0.5609 | 0.015494 | -0.0383 | -0.02182 | -0.0101 | 0.012602 |
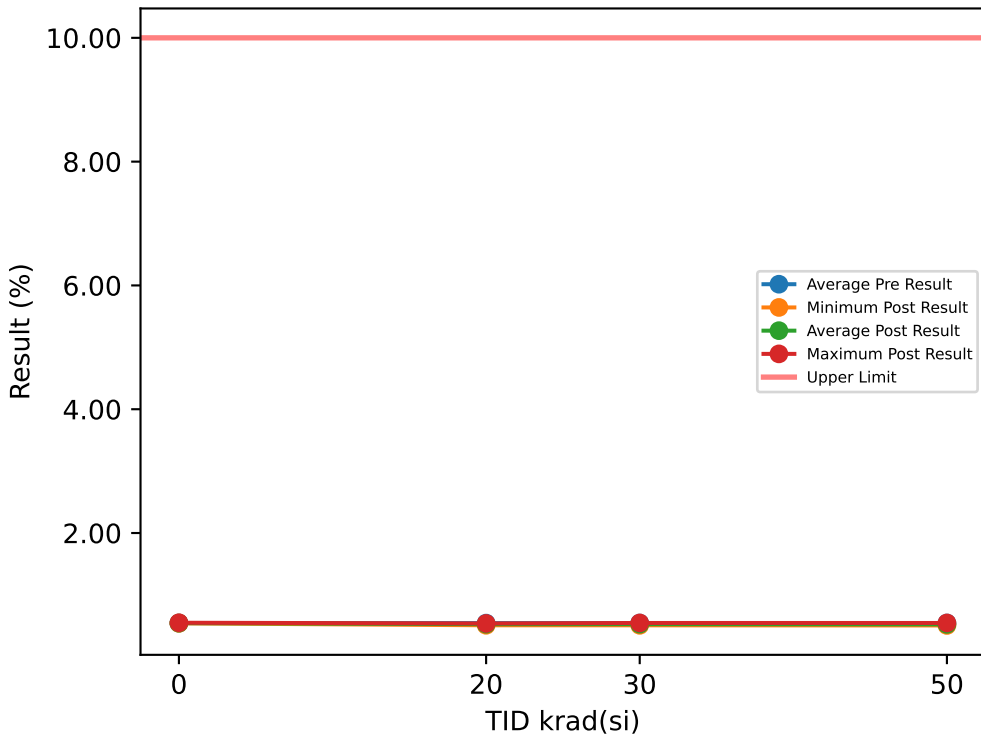
# Device Test: 15.77  VOL_EN_2MA(_EVEL|VOL/EN4/7/14/0/0/2/@VOL_EN_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.5484 | 0.5212 | -0.0272 |
| 2 | 20 | Bias | 0.5499 | 0.523 | -0.0269 |
| 3 | 20 | Bias | 0.5525 | 0.5262 | -0.0263 |
| 4 | 20 | Bias | 0.5335 | 0.5093 | -0.0242 |
| 5 | 20 | Bias | 0.5433 | 0.5193 | -0.024 |
| 6 | 20 | Unbiased | 0.549 | 0.5388 | -0.0102 |
| 7 | 20 | Unbiased | 0.5483 | 0.539 | -0.0093 |
| 8 | 20 | Unbiased | 0.5468 | 0.538 | -0.0088 |
| 9 | 20 | Unbiased | 0.5362 | 0.5287 | -0.0075 |
| 10 | 20 | Unbiased | 0.5366 | 0.5288 | -0.0078 |
| 11 | 30 | Bias | 0.555 | 0.5195 | -0.0355 |
| 12 | 30 | Bias | 0.5572 | 0.5243 | -0.0329 |
| 13 | 30 | Bias | 0.5533 | 0.5264 | -0.0269 |
| 14 | 30 | Bias | 0.5378 | 0.5221 | -0.0157 |
| 15 | 30 | Bias | 0.5547 | 0.5088 | -0.0459 |
| 16 | 30 | Unbiased | 0.538 | 0.5468 | 0.0088 |
| 17 | 30 | Unbiased | 0.5327 | 0.5303 | -0.0024 |
| 18 | 30 | Unbiased | 0.5346 | 0.5257 | -0.0089 |
| 19 | 30 | Unbiased | 0.548 | 0.5277 | -0.0203 |
| 20 | 30 | Unbiased | 0.5443 | 0.5417 | -0.0026 |
| 21 | 50 | Bias | 0.5455 | 0.5114 | -0.0341 |
| 22 | 50 | Bias | 0.5479 | 0.5135 | -0.0344 |
| 23 | 50 | Bias | 0.5379 | 0.5151 | -0.0228 |
| 24 | 50 | Bias | 0.5467 | 0.5066 | -0.0401 |
| 25 | 50 | Bias | 0.5428 | 0.5077 | -0.0351 |
| 26 | 50 | Unbiased | 0.5432 | 0.533 | -0.0102 |
| 27 | 50 | Unbiased | 0.5466 | 0.536 | -0.0106 |
| 28 | 50 | Unbiased | 0.5447 | 0.5338 | -0.0109 |
| 29 | 50 | Unbiased | 0.5575 | 0.5466 | -0.0109 |
| 30 | 50 | Unbiased | 0.5487 | 0.5381 | -0.0106 |
| 31 | 0 | Correlation | 0.5416 | 0.5404 | -0.0012 |
| 32 | 0 | Correlation | 0.5407 | 0.5404 | -0.0003 |
| 33 | 0 | Correlation | 0.5511 | 0.5505 | -0.0006 |
| 34 | 0 | Correlation | 0.5428 | 0.5502 | 0.0074 |

## Test Statistics (%)
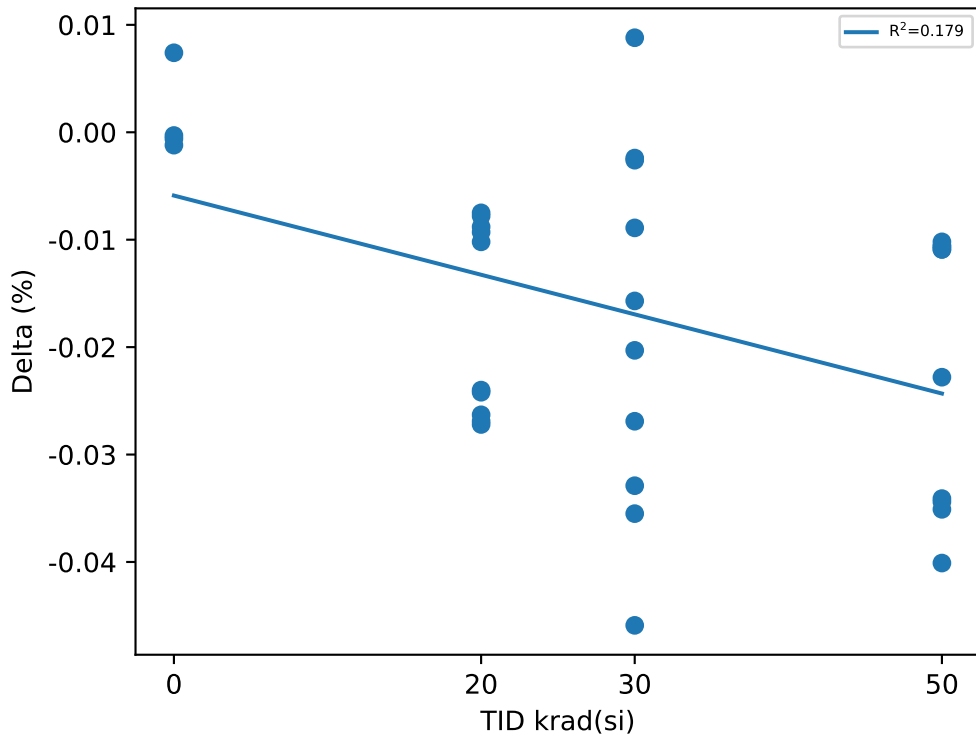
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.5407 | 0.54405 | 0.5511 | 0.0047781 | 0.5404 | 0.54537 | 0.5505 | 0.0057459 | -0.0012 | 0.001325 | 0.0074 | 0.0040672 |
| 20 | 0.5335 | 0.54445 | 0.5525 | 0.0066839 | 0.5093 | 0.52723 | 0.539 | 0.0096189 | -0.0272 | -0.01722 | -0.0075 | 0.0090465 |
| 30 | 0.5327 | 0.54556 | 0.5572 | 0.0093003 | 0.5088 | 0.52733 | 0.5468 | 0.010746 | -0.0459 | -0.01823 | 0.0088 | 0.017248 |
| 50 | 0.5379 | 0.54615 | 0.5575 | 0.0050487 | 0.5066 | 0.52418 | 0.5466 | 0.014708 | -0.0401 | -0.02197 | -0.0102 | 0.012674 |
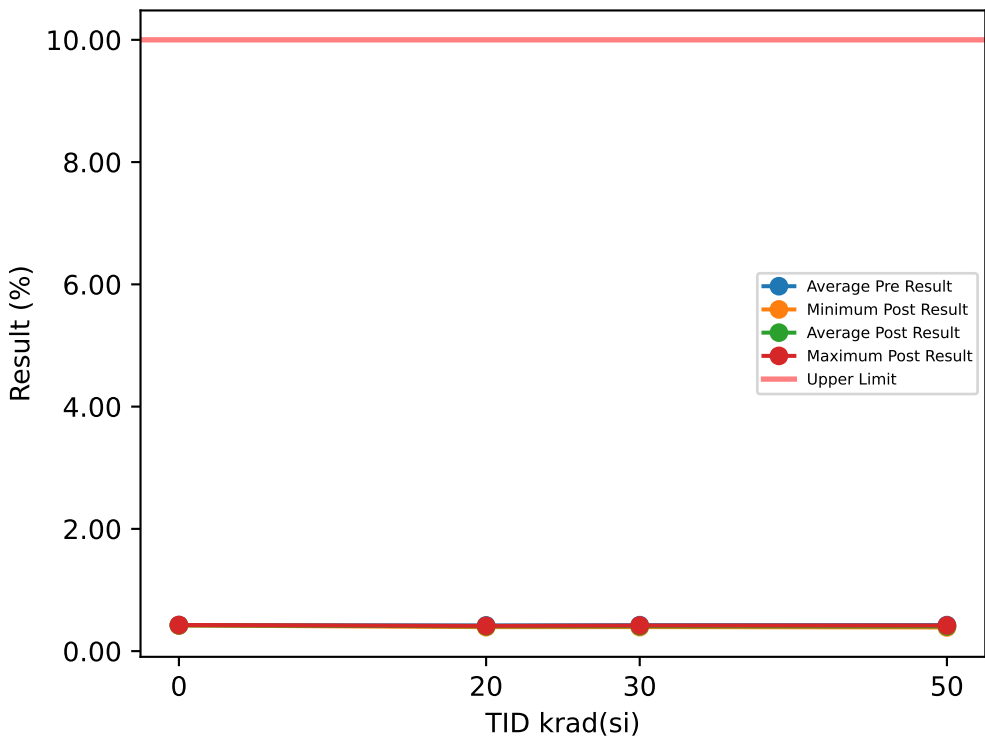
# Device Test: 15.78  VOL_SEQ_DONE_2MA(_EVEL|VOL/SEQ_DONE/7/14/0/0/2/@VOL_SEQ_DONE_2MA )

## TID vs Result Stats

## TID vs Post - Pre Exposure Delta

## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.4246 | 0.3991 | -0.0255 |
| 2 | 20 | Bias | 0.4247 | 0.4007 | -0.024 |
| 3 | 20 | Bias | 0.4311 | 0.4062 | -0.0249 |
| 4 | 20 | Bias | 0.4151 | 0.3923 | -0.0228 |
| 5 | 20 | Bias | 0.4165 | 0.3959 | -0.0206 |
| 6 | 20 | Unbiased | 0.4221 | 0.4132 | -0.0089 |
| 7 | 20 | Unbiased | 0.4205 | 0.4132 | -0.0073 |
| 8 | 20 | Unbiased | 0.42 | 0.4126 | -0.0074 |
| 9 | 20 | Unbiased | 0.4157 | 0.4088 | -0.0069 |
| 10 | 20 | Unbiased | 0.4182 | 0.4117 | -0.0065 |
| 11 | 30 | Bias | 0.428 | 0.3941 | -0.0339 |
| 12 | 30 | Bias | 0.4316 | 0.3981 | -0.0335 |
| 13 | 30 | Bias | 0.4259 | 0.4016 | -0.0243 |
| 14 | 30 | Bias | 0.4219 | 0.3963 | -0.0256 |
| 15 | 30 | Bias | 0.4269 | 0.3931 | -0.0338 |
| 16 | 30 | Unbiased | 0.4191 | 0.4192 | 0.0001 |
| 17 | 30 | Unbiased | 0.4195 | 0.4121 | -0.0074 |
| 18 | 30 | Unbiased | 0.424 | 0.4125 | -0.0115 |
| 19 | 30 | Unbiased | 0.4232 | 0.417 | -0.0062 |
| 20 | 30 | Unbiased | 0.4299 | 0.4162 | -0.0137 |
| 21 | 50 | Bias | 0.4272 | 0.397 | -0.0302 |
| 22 | 50 | Bias | 0.4269 | 0.3936 | -0.0333 |
| 23 | 50 | Bias | 0.419 | 0.3933 | -0.0257 |
| 24 | 50 | Bias | 0.4237 | 0.3873 | -0.0364 |
| 25 | 50 | Bias | 0.4243 | 0.3884 | -0.0359 |
| 26 | 50 | Unbiased | 0.4294 | 0.419 | -0.0104 |
| 27 | 50 | Unbiased | 0.4278 | 0.4173 | -0.0105 |
| 28 | 50 | Unbiased | 0.4205 | 0.4094 | -0.0111 |
| 29 | 50 | Unbiased | 0.4305 | 0.4198 | -0.0107 |
| 30 | 50 | Unbiased | 0.4277 | 0.4164 | -0.0113 |
| 31 | 0 | Correlation | 0.4206 | 0.4193 | -0.0013 |
| 32 | 0 | Correlation | 0.4219 | 0.4202 | -0.0017 |
| 33 | 0 | Correlation | 0.4288 | 0.4277 | -0.0011 |
| 34 | 0 | Correlation | 0.4296 | 0.4237 | -0.0059 |
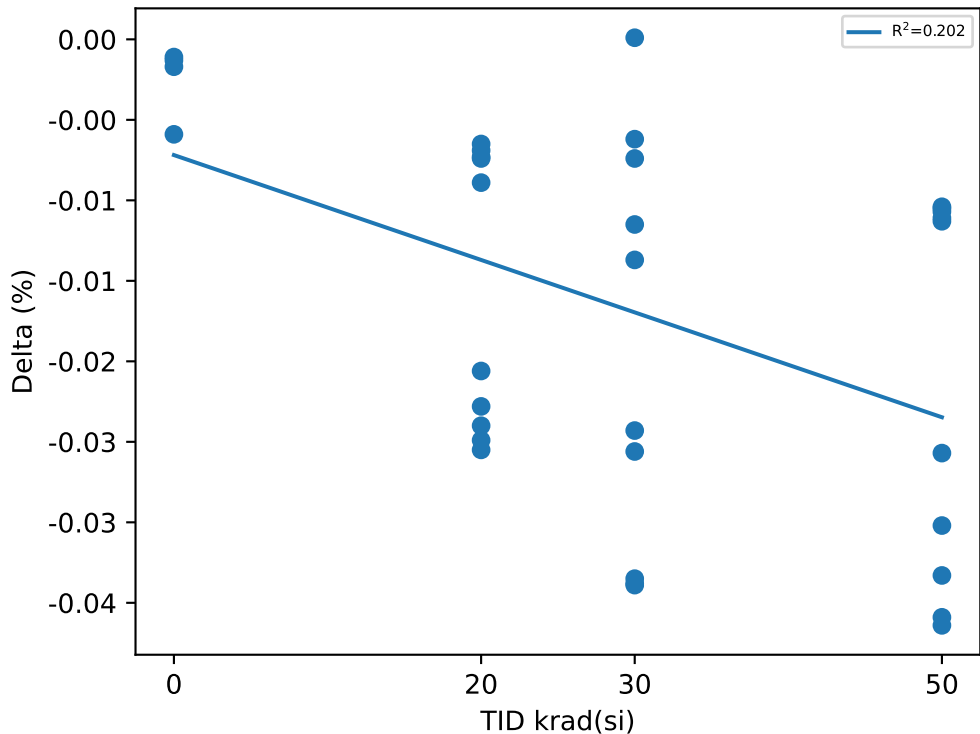
R²=0.202

## Test Statistics (%)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.4206 | 0.42522 | 0.4296 | 0.004632 | 0.4193 | 0.42273 | 0.4277 | 0.0038213 | -0.0059 | -0.0025 | -0.0011 | 0.0022804 |
| 20 | 0.4151 | 0.42085 | 0.4311 | 0.0049653 | 0.3923 | 0.40537 | 0.4132 | 0.0078105 | -0.0255 | -0.01548 | -0.0065 | 0.0086363 |
| 30 | 0.4191 | 0.425 | 0.4316 | 0.0042151 | 0.3931 | 0.40602 | 0.4192 | 0.010342 | -0.0339 | -0.01898 | 0.0001 | 0.012782 |
| 50 | 0.419 | 0.4257 | 0.4305 | 0.0037523 | 0.3873 | 0.40415 | 0.4198 | 0.01345 | -0.0364 | -0.02155 | -0.0104 | 0.011714 |
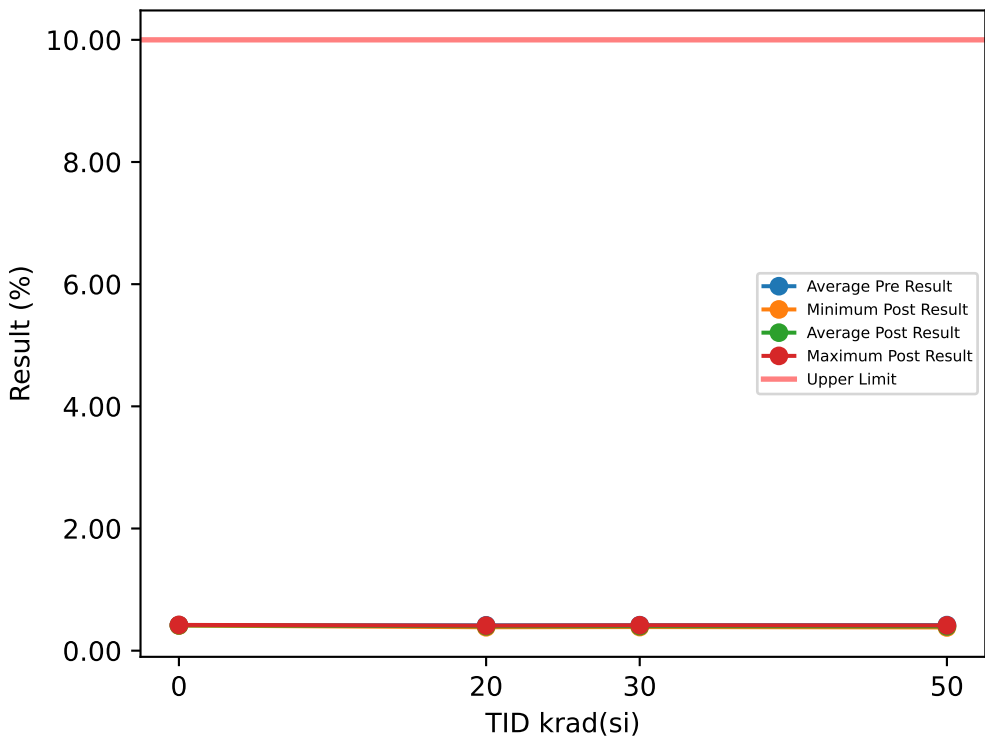
# Device Test: 15.79  VOL_PWRGD_2MA(_EVEL|VOL/PWRGD/7/14/0/0/2/@VOL_PWRGD_2MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 10.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.4199 | 0.3937 | -0.0262 |
| 2 | 20 | Bias | 0.421 | 0.3954 | -0.0256 |
| 3 | 20 | Bias | 0.4242 | 0.3988 | -0.0254 |
| 4 | 20 | Bias | 0.4062 | 0.3831 | -0.0231 |
| 5 | 20 | Bias | 0.4145 | 0.3919 | -0.0226 |
| 6 | 20 | Unbiased | 0.418 | 0.4087 | -0.0093 |
| 7 | 20 | Unbiased | 0.4183 | 0.4103 | -0.008 |
| 8 | 20 | Unbiased | 0.4161 | 0.408 | -0.0081 |
| 9 | 20 | Unbiased | 0.408 | 0.4008 | -0.0072 |
| 10 | 20 | Unbiased | 0.4075 | 0.4016 | -0.0059 |
| 11 | 30 | Bias | 0.4211 | 0.3914 | -0.0297 |
| 12 | 30 | Bias | 0.4254 | 0.3927 | -0.0327 |
| 13 | 30 | Bias | 0.4228 | 0.3982 | -0.0246 |
| 14 | 30 | Bias | 0.4124 | 0.3945 | -0.0179 |
| 15 | 30 | Bias | 0.4209 | 0.3864 | -0.0345 |
| 16 | 30 | Unbiased | 0.4087 | 0.4159 | 0.0072 |
| 17 | 30 | Unbiased | 0.4091 | 0.403 | -0.0061 |
| 18 | 30 | Unbiased | 0.4147 | 0.4033 | -0.0114 |
| 19 | 30 | Unbiased | 0.4173 | 0.4091 | -0.0082 |
| 20 | 30 | Unbiased | 0.4203 | 0.4109 | -0.0094 |
| 21 | 50 | Bias | 0.4201 | 0.389 | -0.0311 |
| 22 | 50 | Bias | 0.4212 | 0.3884 | -0.0328 |
| 23 | 50 | Bias | 0.4133 | 0.3876 | -0.0257 |
| 24 | 50 | Bias | 0.4143 | 0.3832 | -0.0311 |
| 25 | 50 | Bias | 0.4165 | 0.3801 | -0.0364 |
| 26 | 50 | Unbiased | 0.4162 | 0.4055 | -0.0107 |
| 27 | 50 | Unbiased | 0.4208 | 0.4089 | -0.0119 |
| 28 | 50 | Unbiased | 0.4155 | 0.4047 | -0.0108 |
| 29 | 50 | Unbiased | 0.4249 | 0.4139 | -0.011 |
| 30 | 50 | Unbiased | 0.4225 | 0.4106 | -0.0119 |
| 31 | 0 | Correlation | 0.4126 | 0.4118 | -0.0008 |
| 32 | 0 | Correlation | 0.4113 | 0.4108 | -0.0005 |
| 33 | 0 | Correlation | 0.4231 | 0.422 | -0.0011 |
| 34 | 0 | Correlation | 0.4211 | 0.4184 | -0.0027 |

## Test Statistics (%)
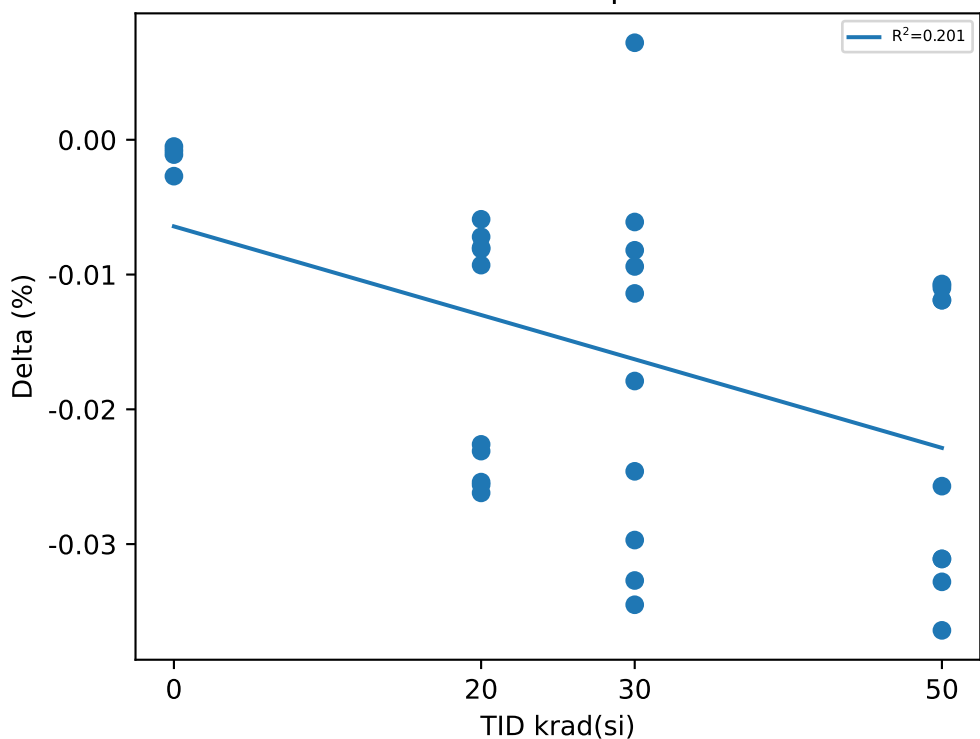
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.4113 | 0.41702 | 0.4231 | 0.0059405 | 0.4108 | 0.41575 | 0.422 | 0.00536 | -0.0027 | -0.001275 | -0.0005 | 0.00098107 |
| 20 | 0.4062 | 0.41537 | 0.4242 | 0.0062122 | 0.3831 | 0.39923 | 0.4103 | 0.0085411 | -0.0262 | -0.01614 | -0.0059 | 0.0090005 |
| 30 | 0.4087 | 0.41727 | 0.4254 | 0.005814 | 0.3864 | 0.40054 | 0.4159 | 0.0095283 | -0.0345 | -0.01673 | 0.0072 | 0.013511 |
| 50 | 0.4133 | 0.41853 | 0.4249 | 0.0038739 | 0.3801 | 0.39719 | 0.4139 | 0.012674 | -0.0364 | -0.02134 | -0.0107 | 0.01094 |

# Device Test: 15.8   REFCAP(_VOLTAGE|REFCAP/REFCAP//3/0/0/0/@REFCAP )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 1.188, Upper Limit = 1.212 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.2 | 1.1997 | -0.0003 |
| 2 | 20 | Bias | 1.1995 | 1.1991 | -0.0004 |
| 3 | 20 | Bias | 1.1998 | 1.2001 | 0.0003 |
| 4 | 20 | Bias | 1.2016 | 1.2011 | -0.0005 |
| 5 | 20 | Bias | 1.1999 | 1.1992 | -0.0007 |
| 6 | 20 | Unbiased | 1.2009 | 1.2012 | 0.0003 |
| 7 | 20 | Unbiased | 1.2013 | 1.2014 | 0.0001 |
| 8 | 20 | Unbiased | 1.1998 | 1.1991 | -0.0007 |
| 9 | 20 | Unbiased | 1.2007 | 1.1997 | -0.001 |
| 10 | 20 | Unbiased | 1.1997 | 1.1991 | -0.0006 |
| 11 | 30 | Bias | 1.2008 | 1.199 | -0.0018 |
| 12 | 30 | Bias | 1.2008 | 1.1997 | -0.0011 |
| 13 | 30 | Bias | 1.1998 | 1.2004 | 0.0006 |
| 14 | 30 | Bias | 1.2016 | 1.1999 | -0.0017 |
| 15 | 30 | Bias | 1.201 | 1.2011 | 0.0001 |
| 16 | 30 | Unbiased | 1.2005 | 1.2011 | 0.0006 |
| 17 | 30 | Unbiased | 1.2002 | 1.2 | -0.0002 |
| 18 | 30 | Unbiased | 1.2013 | 1.2001 | -0.0012 |
| 19 | 30 | Unbiased | 1.2007 | 1.2009 | 0.0002 |
| 20 | 30 | Unbiased | 1.2019 | 1.1996 | -0.0023 |
| 21 | 50 | Bias | 1.2006 | 1.2014 | 0.0008 |
| 22 | 50 | Bias | 1.2007 | 1.1989 | -0.0018 |
| 23 | 50 | Bias | 1.201 | 1.2014 | 0.0004 |
| 24 | 50 | Bias | 1.201 | 1.2005 | -0.0005 |
| 25 | 50 | Bias | 1.2016 | 1.201 | -0.0006 |
| 26 | 50 | Unbiased | 1.2004 | 1.1998 | -0.0006 |
| 27 | 50 | Unbiased | 1.2014 | 1.2007 | -0.0007 |
| 28 | 50 | Unbiased | 1.2006 | 1.2005 | -0.0001 |
| 29 | 50 | Unbiased | 1.1997 | 1.1994 | -0.0003 |
| 30 | 50 | Unbiased | 1.1994 | 1.1996 | 0.0002 |
| 31 | 0 | Correlation | 1.2002 | 1.2002 | 0 |
| 32 | 0 | Correlation | 1.2007 | 1.2006 | -0.0001 |
| 33 | 0 | Correlation | 1.2008 | 1.2007 | -0.0001 |
| 34 | 0 | Correlation | 1.2002 | 1.1993 | -0.0009 |
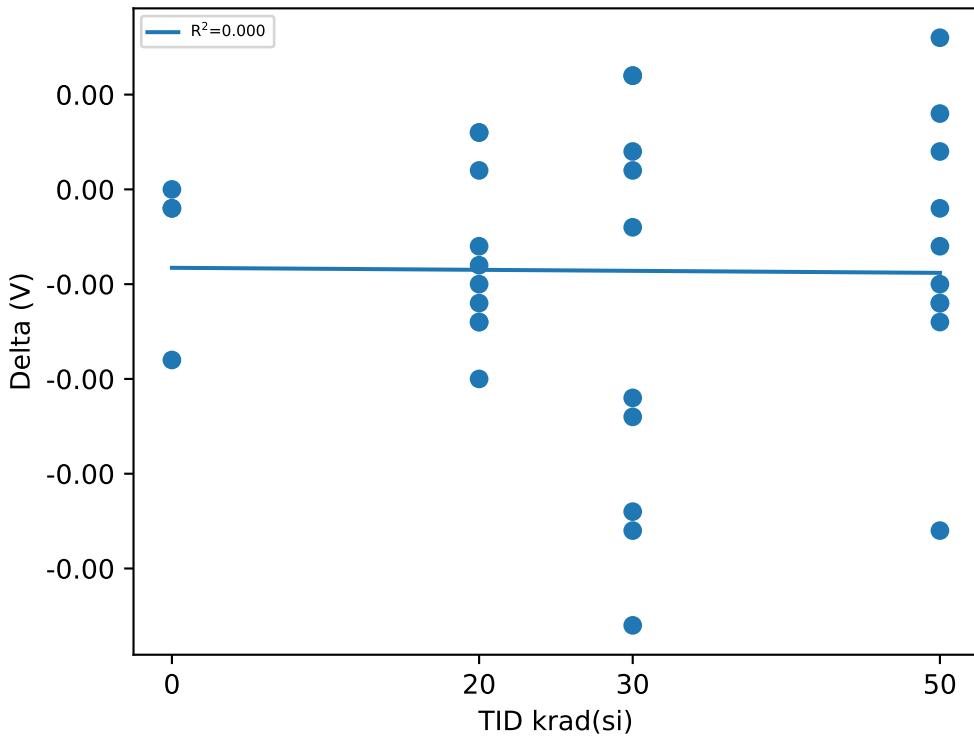
## Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.2002 | 1.2005 | 1.2008 | 0.00032016 | 1.1993 | 1.2002 | 1.2007 | 0.0006377 | -0.0009 | -0.000275 | 0 | 0.00041932 |
| 20 | 1.1995 | 1.2003 | 1.2016 | 0.00074207 | 1.1991 | 1.2 | 1.2014 | 0.00093458 | -0.001 | -0.00035 | 0.0003 | 0.00044783 |
| 30 | 1.1998 | 1.2009 | 1.2019 | 0.00062929 | 1.199 | 1.2002 | 1.2011 | 0.0006941 | -0.0023 | -0.00068 | 0.0006 | 0.0010675 |
| 50 | 1.1994 | 1.2006 | 1.2016 | 0.0006867 | 1.1989 | 1.2003 | 1.2014 | 0.00085997 | -0.0018 | -0.00032 | 0.0008 | 0.00071616 |

# Device Test: 15.80  VOH_EN_10MA(_EVEL|VOH/EN1/1.6/3/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

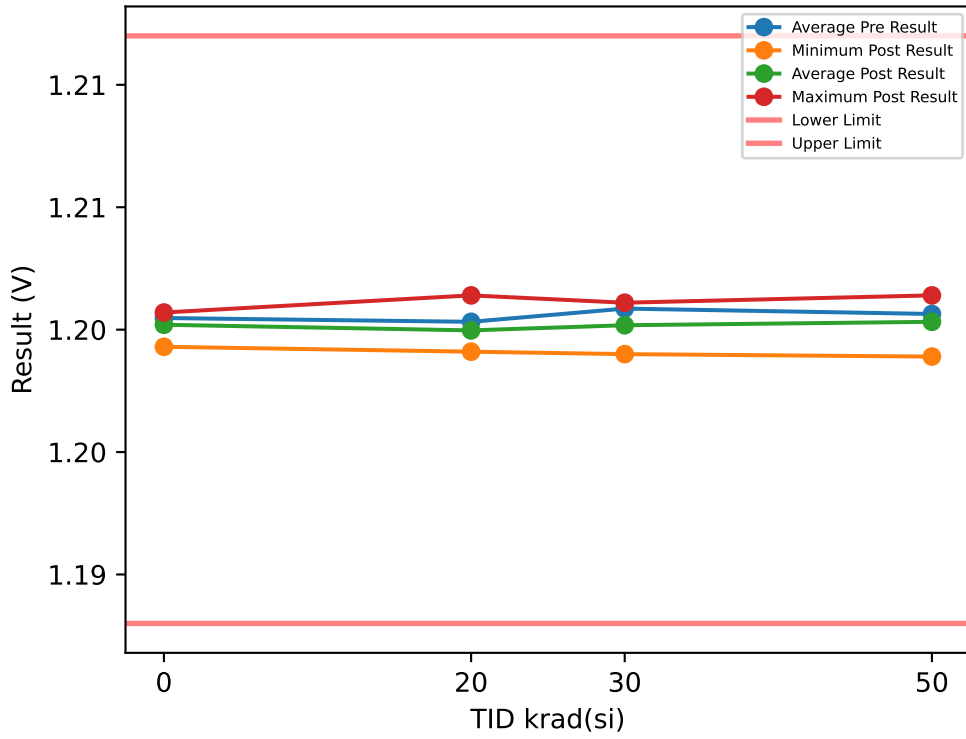| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 86.782 | 86.643 | -0.1388 |
| 2 | 20 | Bias | 86.813 | 86.662 | -0.1512 |
| 3 | 20 | Bias | 86.775 | 86.615 | -0.1597 |
| 4 | 20 | Bias | 87.429 | 87.299 | -0.1308 |
| 5 | 20 | Bias | 87.141 | 87.011 | -0.1305 |
| 6 | 20 | Unbiased | 87.115 | 87.017 | -0.0988 |
| 7 | 20 | Unbiased | 87.111 | 86.98 | -0.1316 |
| 8 | 20 | Unbiased | 87.536 | 87.431 | -0.1042 |
| 9 | 20 | Unbiased | 87.091 | 86.944 | -0.1462 |
| 10 | 20 | Unbiased | 87.206 | 87.062 | -0.144 |
| 11 | 30 | Bias | 86.748 | 86.704 | -0.0446 |
| 12 | 30 | Bias | 86.954 | 86.457 | -0.4966 |
| 13 | 30 | Bias | 86.885 | 86.673 | -0.2126 |
| 14 | 30 | Bias | 87.167 | 86.59 | -0.5769 |
| 15 | 30 | Bias | 86.692 | 86.884 | 0.1917 |
| 16 | 30 | Unbiased | 87.431 | 86.437 | -0.9941 |
| 17 | 30 | Unbiased | 87.197 | 87.193 | -0.0041 |
| 18 | 30 | Unbiased | 87.15 | 86.927 | -0.2223 |
| 19 | 30 | Unbiased | 86.801 | 86.885 | 0.084 |
| 20 | 30 | Unbiased | 87.228 | 86.514 | -0.7148 |
| 21 | 50 | Bias | 87.192 | 86.865 | -0.3277 |
| 22 | 50 | Bias | 87.197 | 86.806 | -0.3912 |
| 23 | 50 | Bias | 87.168 | 86.823 | -0.3445 |
| 24 | 50 | Bias | 87.251 | 86.805 | -0.4465 |
| 25 | 50 | Bias | 87.421 | 87.027 | -0.3934 |
| 26 | 50 | Unbiased | 87.05 | 86.547 | -0.5024 |
| 27 | 50 | Unbiased | 87.297 | 86.847 | -0.4495 |
| 28 | 50 | Unbiased | 86.897 | 86.385 | -0.512 |
| 29 | 50 | Unbiased | 87.07 | 86.575 | -0.495 |
| 30 | 50 | Unbiased | 87.153 | 86.676 | -0.4764 |
| 31 | 0 | Correlation | 86.91 | 86.915 | 0.0049 |
| 32 | 0 | Correlation | 87.183 | 87.181 | -0.002 |
| 33 | 0 | Correlation | 87.212 | 87.202 | -0.0098 |
| 34 | 0 | Correlation | 87.421 | 86.969 | -0.4524 |

## Test Statistics (%)
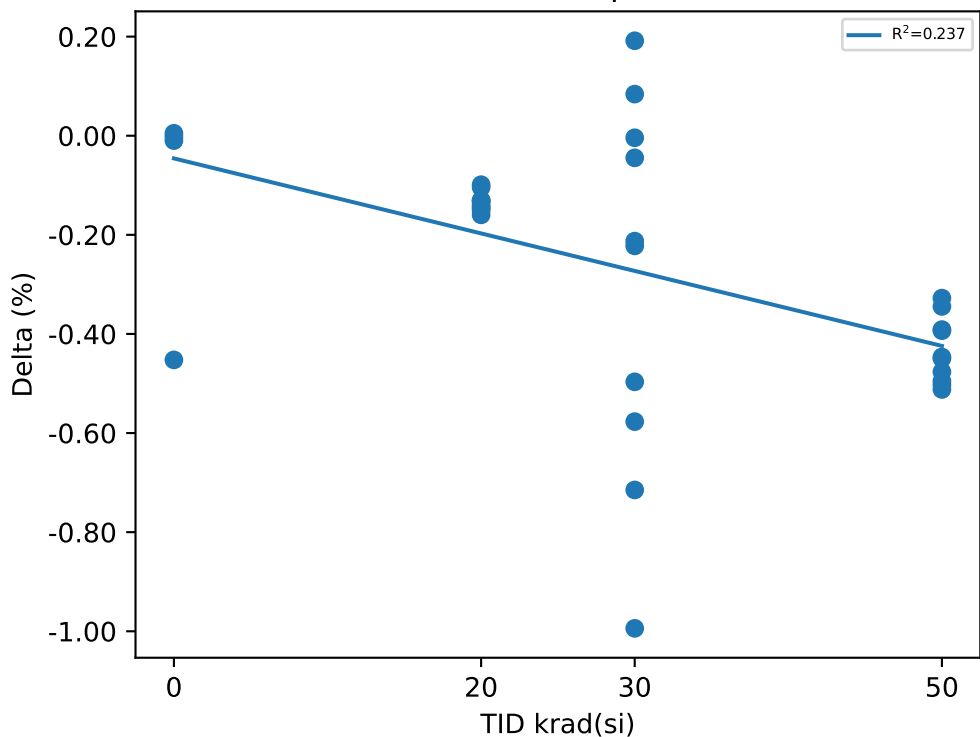
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 86.91 | 87.182 | 87.421 | 0.20982 | 86.915 | 87.067 | 87.202 | 0.14607 | -0.4524 | -0.11482 | 0.0049 | 0.22513 |
| 20 | 86.775 | 87.1 | 87.536 | 0.25845 | 86.615 | 86.966 | 87.431 | 0.27118 | -0.1597 | -0.13358 | -0.0988 | 0.019384 |
| 30 | 86.692 | 87.025 | 87.431 | 0.2435 | 86.437 | 86.726 | 87.193 | 0.24303 | -0.9941 | -0.29903 | 0.1917 | 0.38367 |
| 50 | 86.897 | 87.17 | 87.421 | 0.14371 | 86.385 | 86.736 | 87.027 | 0.18827 | -0.512 | -0.43386 | -0.3277 | 0.066222 |

# Device Test: 15.81  VOH_EN_10MA(_EVEL|VOH/EN2/1.6/3/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

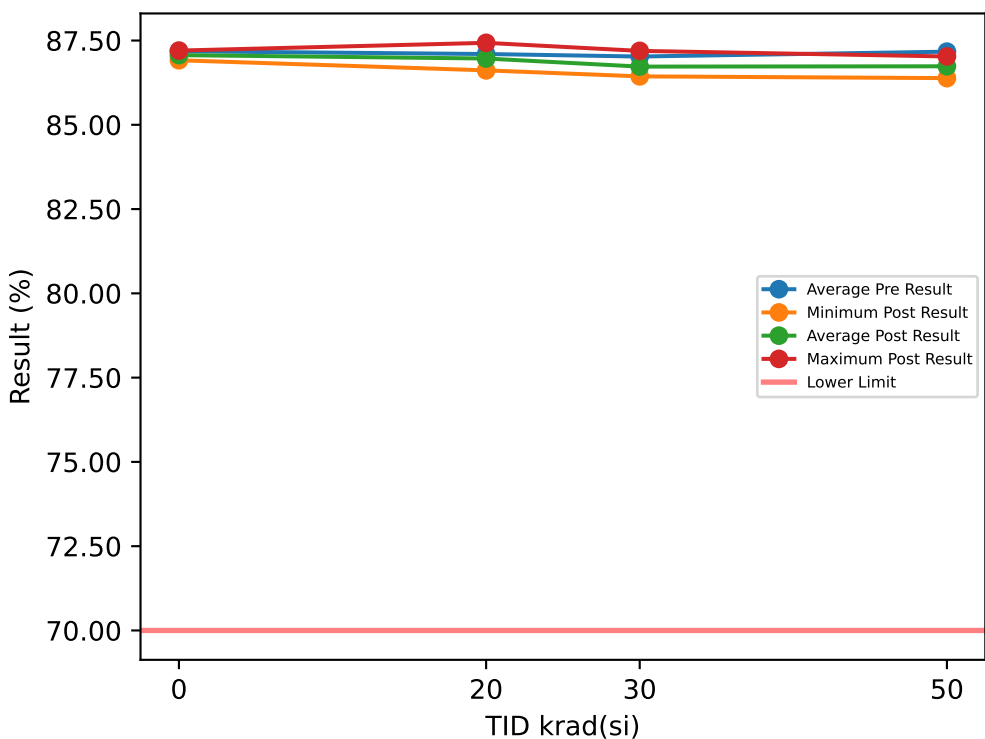| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 87.016 | 86.89 | -0.1261 |
| 2 | 20 | Bias | 87.063 | 86.926 | -0.1371 |
| 3 | 20 | Bias | 86.917 | 86.746 | -0.1709 |
| 4 | 20 | Bias | 87.658 | 87.536 | -0.1222 |
| 5 | 20 | Bias | 87.278 | 87.159 | -0.1191 |
| 6 | 20 | Unbiased | 87.248 | 87.148 | -0.1001 |
| 7 | 20 | Unbiased | 87.285 | 87.159 | -0.1253 |
| 8 | 20 | Unbiased | 87.645 | 87.541 | -0.1042 |
| 9 | 20 | Unbiased | 87.268 | 87.149 | -0.1193 |
| 10 | 20 | Unbiased | 87.402 | 87.279 | -0.123 |
| 11 | 30 | Bias | 86.893 | 86.86 | -0.0337 |
| 12 | 30 | Bias | 87.09 | 86.614 | -0.4756 |
| 13 | 30 | Bias | 87.093 | 86.823 | -0.2705 |
| 14 | 30 | Bias | 87.401 | 86.813 | -0.5884 |
| 15 | 30 | Bias | 86.914 | 87.132 | 0.2176 |
| 16 | 30 | Unbiased | 87.585 | 86.672 | -0.9134 |
| 17 | 30 | Unbiased | 87.439 | 87.362 | -0.0767 |
| 18 | 30 | Unbiased | 87.317 | 87.188 | -0.1291 |
| 19 | 30 | Unbiased | 87.028 | 87.071 | 0.0431 |
| 20 | 30 | Unbiased | 87.426 | 86.754 | -0.6718 |
| 21 | 50 | Bias | 87.381 | 87.07 | -0.3106 |
| 22 | 50 | Bias | 87.329 | 87.02 | -0.3084 |
| 23 | 50 | Bias | 87.372 | 86.959 | -0.4126 |
| 24 | 50 | Bias | 87.464 | 87.025 | -0.4393 |
| 25 | 50 | Bias | 87.647 | 87.257 | -0.3907 |
| 26 | 50 | Unbiased | 87.221 | 86.735 | -0.4859 |
| 27 | 50 | Unbiased | 87.507 | 87.064 | -0.4433 |
| 28 | 50 | Unbiased | 87.172 | 86.671 | -0.5019 |
| 29 | 50 | Unbiased | 87.169 | 86.682 | -0.4875 |
| 30 | 50 | Unbiased | 87.345 | 86.883 | -0.4612 |
| 31 | 0 | Correlation | 87.16 | 87.15 | -0.01 |
| 32 | 0 | Correlation | 87.37 | 87.364 | -0.0053 |
| 33 | 0 | Correlation | 87.287 | 87.289 | 0.002 |
| 34 | 0 | Correlation | 87.576 | 87.118 | -0.4581 |

## Test Statistics (%)
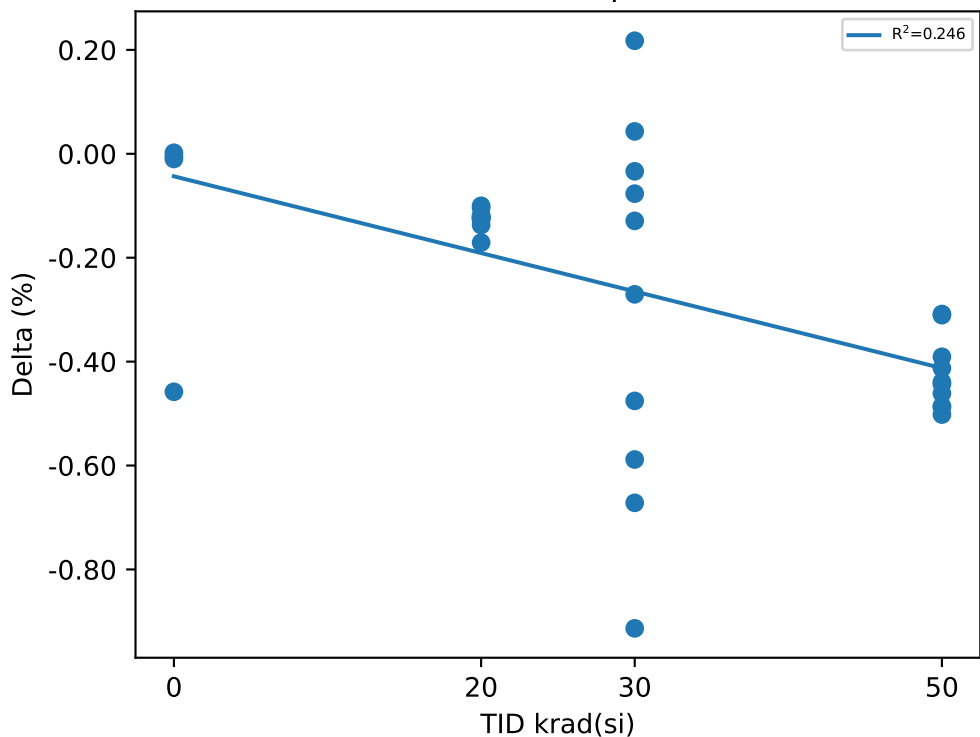
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 87.16 | 87.348 | 87.576 | 0.17456 | 87.118 | 87.23 | 87.364 | 0.11631 | -0.4581 | -0.11785 | 0.002 | 0.22689 |
| 20 | 86.917 | 87.278 | 87.658 | 0.24506 | 86.746 | 87.153 | 87.541 | 0.25799 | -0.1709 | -0.12473 | -0.1001 | 0.019395 |
| 30 | 86.893 | 87.219 | 87.585 | 0.24399 | 86.614 | 86.929 | 87.362 | 0.24537 | -0.9134 | -0.28985 | 0.2176 | 0.35962 |
| 50 | 87.169 | 87.361 | 87.647 | 0.15196 | 86.671 | 86.937 | 87.257 | 0.19177 | -0.5019 | -0.42414 | -0.3084 | 0.06943 |

# Device Test: 15.82  VOH_EN_10MA(_EVEL|VOH/EN3/1.6/3/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

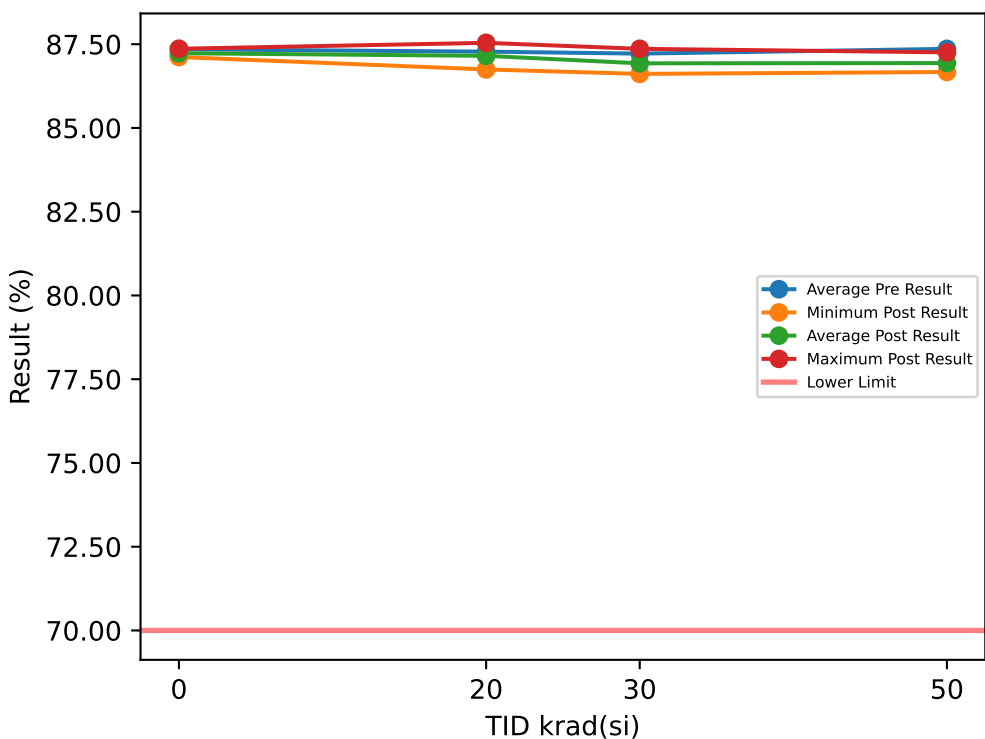| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 87.209 | 87.082 | -0.1265 |
| 2 | 20 | Bias | 87.225 | 87.088 | -0.1366 |
| 3 | 20 | Bias | 87.1 | 86.931 | -0.1688 |
| 4 | 20 | Bias | 87.791 | 87.663 | -0.1277 |
| 5 | 20 | Bias | 87.5 | 87.385 | -0.1156 |
| 6 | 20 | Unbiased | 87.49 | 87.389 | -0.1009 |
| 7 | 20 | Unbiased | 87.514 | 87.388 | -0.1262 |
| 8 | 20 | Unbiased | 87.851 | 87.743 | -0.1074 |
| 9 | 20 | Unbiased | 87.464 | 87.349 | -0.1152 |
| 10 | 20 | Unbiased | 87.585 | 87.461 | -0.1246 |
| 11 | 30 | Bias | 87.141 | 87.102 | -0.0384 |
| 12 | 30 | Bias | 87.31 | 86.859 | -0.451 |
| 13 | 30 | Bias | 87.324 | 87.047 | -0.2766 |
| 14 | 30 | Bias | 87.587 | 87.048 | -0.5387 |
| 15 | 30 | Bias | 87.164 | 87.327 | 0.1628 |
| 16 | 30 | Unbiased | 87.808 | 86.921 | -0.8862 |
| 17 | 30 | Unbiased | 87.655 | 87.588 | -0.0678 |
| 18 | 30 | Unbiased | 87.513 | 87.404 | -0.1092 |
| 19 | 30 | Unbiased | 87.227 | 87.267 | 0.0406 |
| 20 | 30 | Unbiased | 87.652 | 86.954 | -0.6982 |
| 21 | 50 | Bias | 87.58 | 87.303 | -0.2765 |
| 22 | 50 | Bias | 87.547 | 87.22 | -0.3262 |
| 23 | 50 | Bias | 87.559 | 87.168 | -0.3906 |
| 24 | 50 | Bias | 87.647 | 87.216 | -0.4308 |
| 25 | 50 | Bias | 87.868 | 87.482 | -0.3863 |
| 26 | 50 | Unbiased | 87.436 | 86.956 | -0.4794 |
| 27 | 50 | Unbiased | 87.689 | 87.249 | -0.4399 |
| 28 | 50 | Unbiased | 87.375 | 86.881 | -0.4942 |
| 29 | 50 | Unbiased | 87.427 | 86.952 | -0.4754 |
| 30 | 50 | Unbiased | 87.547 | 87.094 | -0.453 |
| 31 | 0 | Correlation | 87.334 | 87.33 | -0.0037 |
| 32 | 0 | Correlation | 87.593 | 87.59 | -0.0033 |
| 33 | 0 | Correlation | 87.518 | 87.515 | -0.0033 |
| 34 | 0 | Correlation | 87.794 | 87.352 | -0.4415 |

## Test Statistics (%)
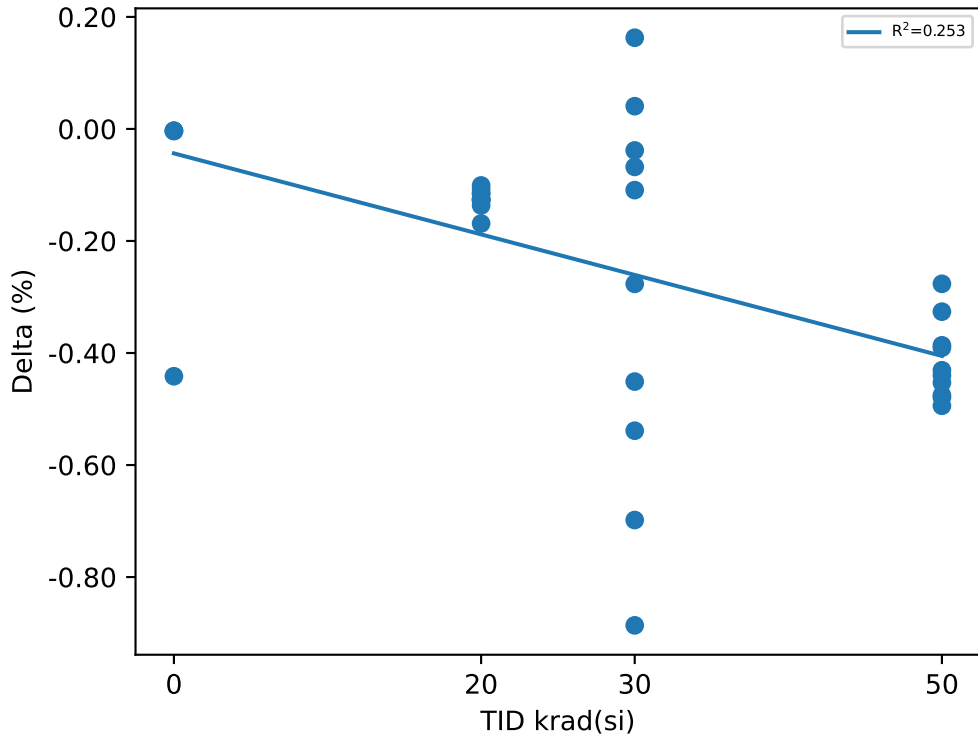
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 87.334 | 87.56 | 87.794 | 0.19024 | 87.33 | 87.447 | 87.59 | 0.12591 | -0.4415 | -0.11295 | -0.0033 | 0.21903 |
| 20 | 87.1 | 87.473 | 87.851 | 0.24264 | 86.931 | 87.348 | 87.743 | 0.25495 | -0.1688 | -0.12495 | -0.1009 | 0.018676 |
| 30 | 87.141 | 87.438 | 87.808 | 0.23456 | 86.859 | 87.152 | 87.588 | 0.23551 | -0.8862 | -0.28627 | 0.1628 | 0.34474 |
| 50 | 87.375 | 87.567 | 87.868 | 0.144 | 86.881 | 87.152 | 87.482 | 0.18423 | -0.4942 | -0.41523 | -0.2765 | 0.070607 |

# Device Test: 15.83  VOH_EN_10MA(_EVEL|VOH/EN4/1.6/3/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

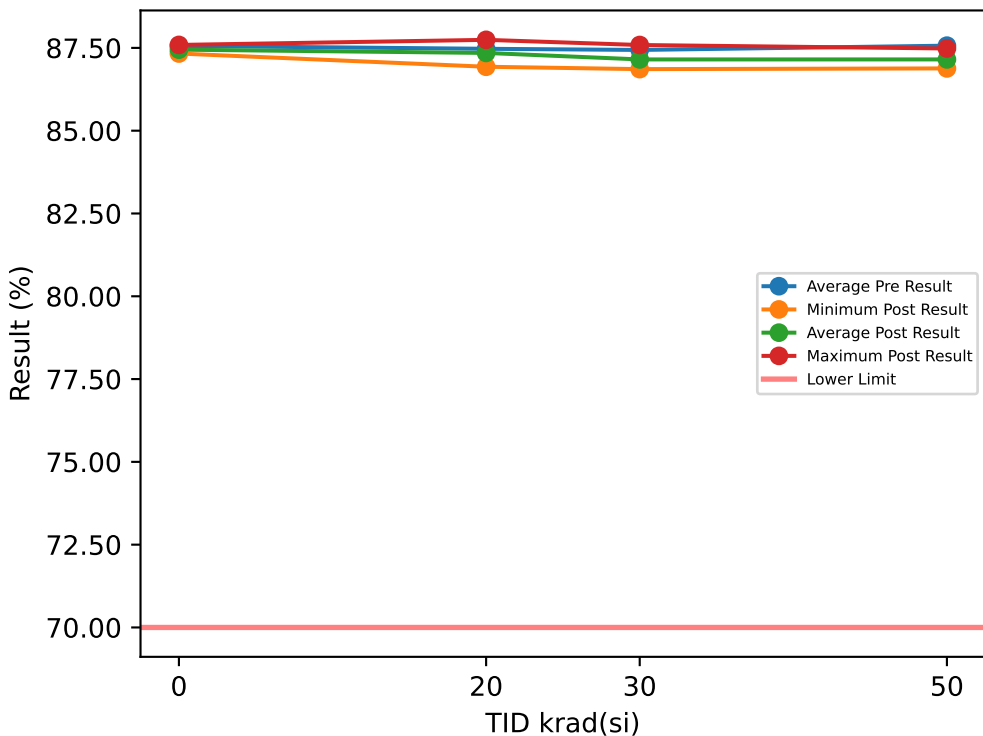| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 87.54 | 87.424 | -0.116 |
| 2 | 20 | Bias | 87.553 | 87.427 | -0.1257 |
| 3 | 20 | Bias | 87.434 | 87.277 | -0.1571 |
| 4 | 20 | Bias | 88.143 | 88.023 | -0.1194 |
| 5 | 20 | Bias | 87.844 | 87.738 | -0.1064 |
| 6 | 20 | Unbiased | 87.836 | 87.742 | -0.0945 |
| 7 | 20 | Unbiased | 87.812 | 87.689 | -0.1224 |
| 8 | 20 | Unbiased | 88.168 | 88.069 | -0.0994 |
| 9 | 20 | Unbiased | 87.786 | 87.675 | -0.1118 |
| 10 | 20 | Unbiased | 87.919 | 87.802 | -0.1175 |
| 11 | 30 | Bias | 87.456 | 87.435 | -0.0204 |
| 12 | 30 | Bias | 87.635 | 87.181 | -0.4542 |
| 13 | 30 | Bias | 87.658 | 87.382 | -0.2761 |
| 14 | 30 | Bias | 87.911 | 87.393 | -0.518 |
| 15 | 30 | Bias | 87.485 | 87.661 | 0.1757 |
| 16 | 30 | Unbiased | 88.116 | 87.252 | -0.8644 |
| 17 | 30 | Unbiased | 88.001 | 87.9 | -0.1011 |
| 18 | 30 | Unbiased | 87.827 | 87.757 | -0.0708 |
| 19 | 30 | Unbiased | 87.562 | 87.591 | 0.0288 |
| 20 | 30 | Unbiased | 87.993 | 87.303 | -0.6898 |
| 21 | 50 | Bias | 87.902 | 87.657 | -0.2448 |
| 22 | 50 | Bias | 87.874 | 87.556 | -0.3177 |
| 23 | 50 | Bias | 87.877 | 87.5 | -0.3768 |
| 24 | 50 | Bias | 88.011 | 87.549 | -0.4614 |
| 25 | 50 | Bias | 88.206 | 87.835 | -0.3707 |
| 26 | 50 | Unbiased | 87.77 | 87.304 | -0.4653 |
| 27 | 50 | Unbiased | 87.997 | 87.568 | -0.429 |
| 28 | 50 | Unbiased | 87.709 | 87.233 | -0.4751 |
| 29 | 50 | Unbiased | 87.752 | 87.291 | -0.4617 |
| 30 | 50 | Unbiased | 87.886 | 87.443 | -0.4423 |
| 31 | 0 | Correlation | 87.687 | 87.687 | -0.0006 |
| 32 | 0 | Correlation | 87.876 | 87.875 | -0.0016 |
| 33 | 0 | Correlation | 87.862 | 87.862 | -0.0003 |
| 34 | 0 | Correlation | 88.123 | 87.678 | -0.4452 |

## Test Statistics (%)
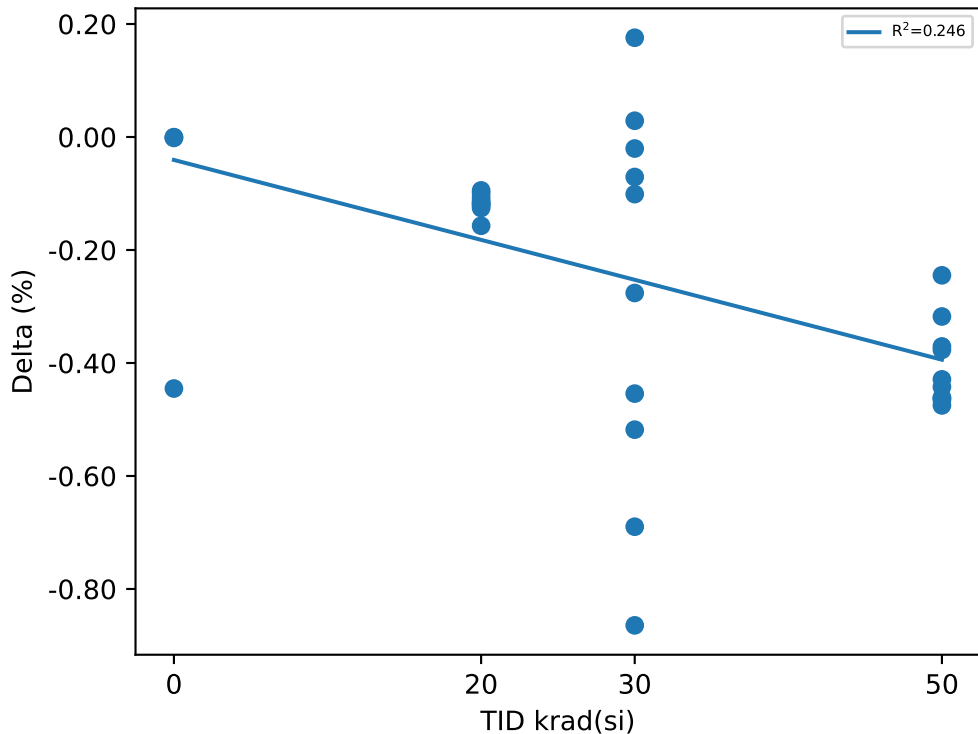
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 87.687 | 87.887 | 88.123 | 0.17913 | 87.678 | 87.775 | 87.875 | 0.10764 | -0.4452 | -0.11192 | -0.0003 | 0.22218 |
| 20 | 87.434 | 87.804 | 88.168 | 0.24333 | 87.277 | 87.687 | 88.069 | 0.25433 | -0.1571 | -0.11702 | -0.0945 | 0.017241 |
| 30 | 87.456 | 87.764 | 88.116 | 0.23569 | 87.181 | 87.485 | 87.9 | 0.23335 | -0.8644 | -0.27903 | 0.1757 | 0.34037 |
| 50 | 87.709 | 87.898 | 88.206 | 0.14606 | 87.233 | 87.494 | 87.835 | 0.1835 | -0.4751 | -0.40448 | -0.2448 | 0.076134 |
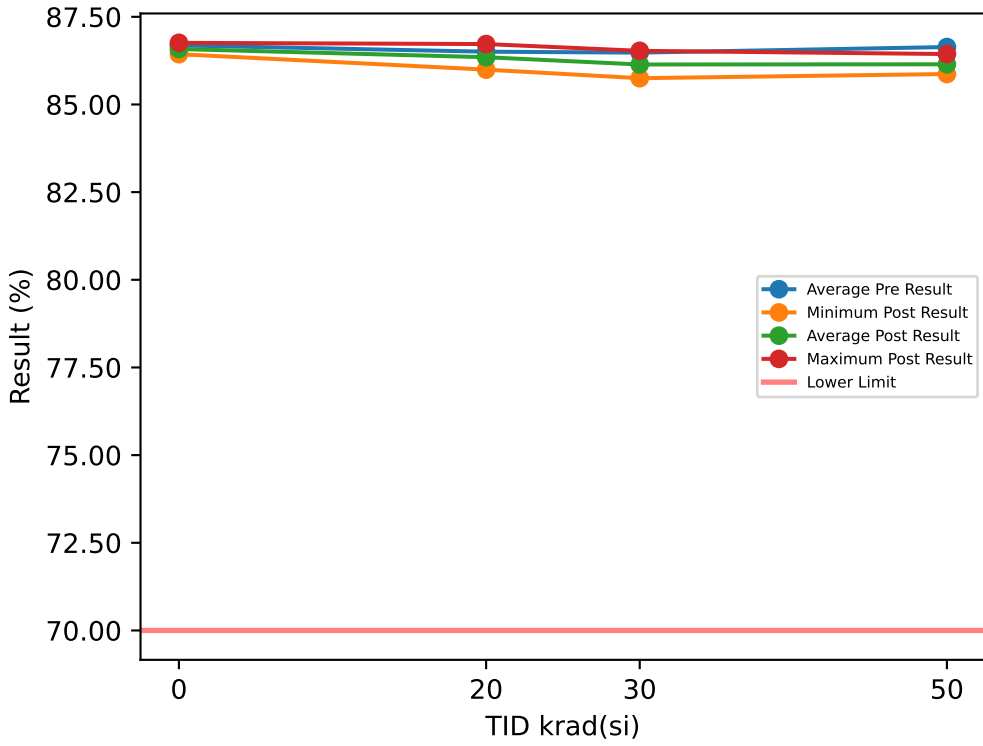
# Device Test: 15.84  VOH_SEQ_DONE_10MA(_EVEL|VOH/SEQ_DONE/1.6/3/0/0/10/@VOH_SEQ_DONE_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

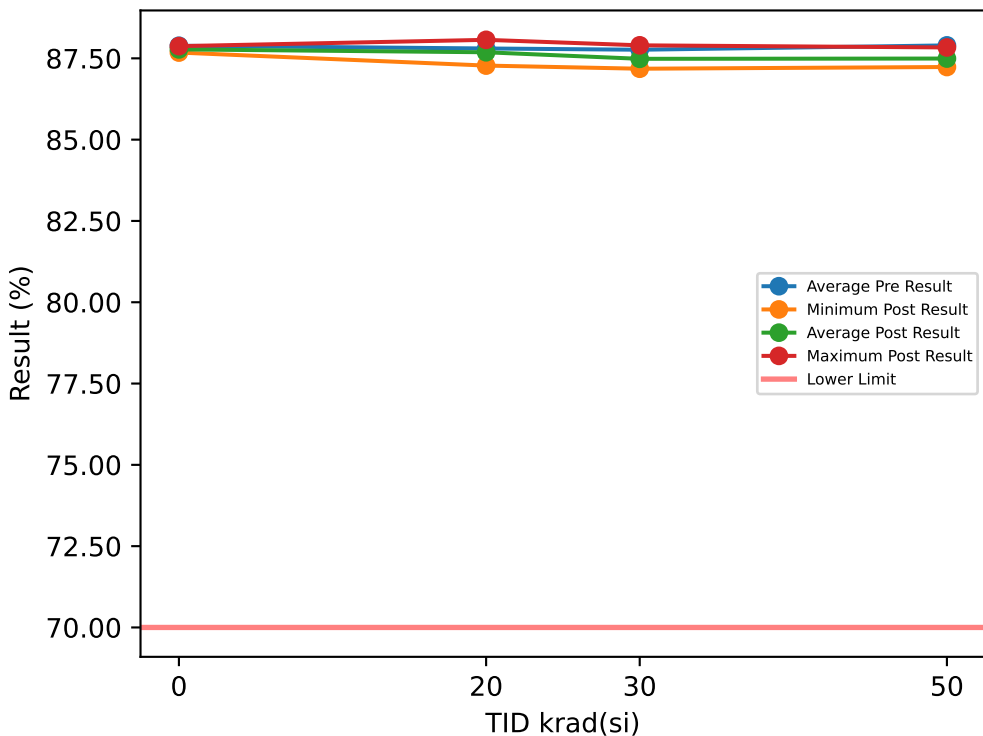| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 86.182 | 86.017 | -0.1648 |
| 2 | 20 | Bias | 86.186 | 86.005 | -0.1806 |
| 3 | 20 | Bias | 86.185 | 85.994 | -0.1917 |
| 4 | 20 | Bias | 86.882 | 86.723 | -0.159 |
| 5 | 20 | Bias | 86.59 | 86.452 | -0.1378 |
| 6 | 20 | Unbiased | 86.544 | 86.424 | -0.1197 |
| 7 | 20 | Unbiased | 86.515 | 86.362 | -0.1535 |
| 8 | 20 | Unbiased | 86.839 | 86.705 | -0.1337 |
| 9 | 20 | Unbiased | 86.483 | 86.312 | -0.1708 |
| 10 | 20 | Unbiased | 86.646 | 86.484 | -0.1626 |
| 11 | 30 | Bias | 86.086 | 86.156 | 0.0695 |
| 12 | 30 | Bias | 86.318 | 85.749 | -0.5689 |
| 13 | 30 | Bias | 86.423 | 86 | -0.4229 |
| 14 | 30 | Bias | 86.646 | 86.102 | -0.5442 |
| 15 | 30 | Bias | 86.226 | 86.336 | 0.1102 |
| 16 | 30 | Unbiased | 86.804 | 85.929 | -0.8749 |
| 17 | 30 | Unbiased | 86.672 | 86.53 | -0.1424 |
| 18 | 30 | Unbiased | 86.587 | 86.364 | -0.223 |
| 19 | 30 | Unbiased | 86.261 | 86.295 | 0.0343 |
| 20 | 30 | Unbiased | 86.76 | 85.941 | -0.8196 |
| 21 | 50 | Bias | 86.685 | 86.358 | -0.3268 |
| 22 | 50 | Bias | 86.628 | 86.262 | -0.3655 |
| 23 | 50 | Bias | 86.647 | 86.193 | -0.4539 |
| 24 | 50 | Bias | 86.753 | 86.205 | -0.5481 |
| 25 | 50 | Bias | 86.886 | 86.438 | -0.4478 |
| 26 | 50 | Unbiased | 86.498 | 85.911 | -0.5868 |
| 27 | 50 | Unbiased | 86.791 | 86.278 | -0.5136 |
| 28 | 50 | Unbiased | 86.463 | 85.888 | -0.5748 |
| 29 | 50 | Unbiased | 86.429 | 85.869 | -0.5602 |
| 30 | 50 | Unbiased | 86.599 | 86.056 | -0.5428 |
| 31 | 0 | Correlation | 86.431 | 86.435 | 0.0033 |
| 32 | 0 | Correlation | 86.673 | 86.676 | 0.0027 |
| 33 | 0 | Correlation | 86.761 | 86.758 | -0.0037 |
| 34 | 0 | Correlation | 86.873 | 86.456 | -0.4172 |

## Test Statistics (%)
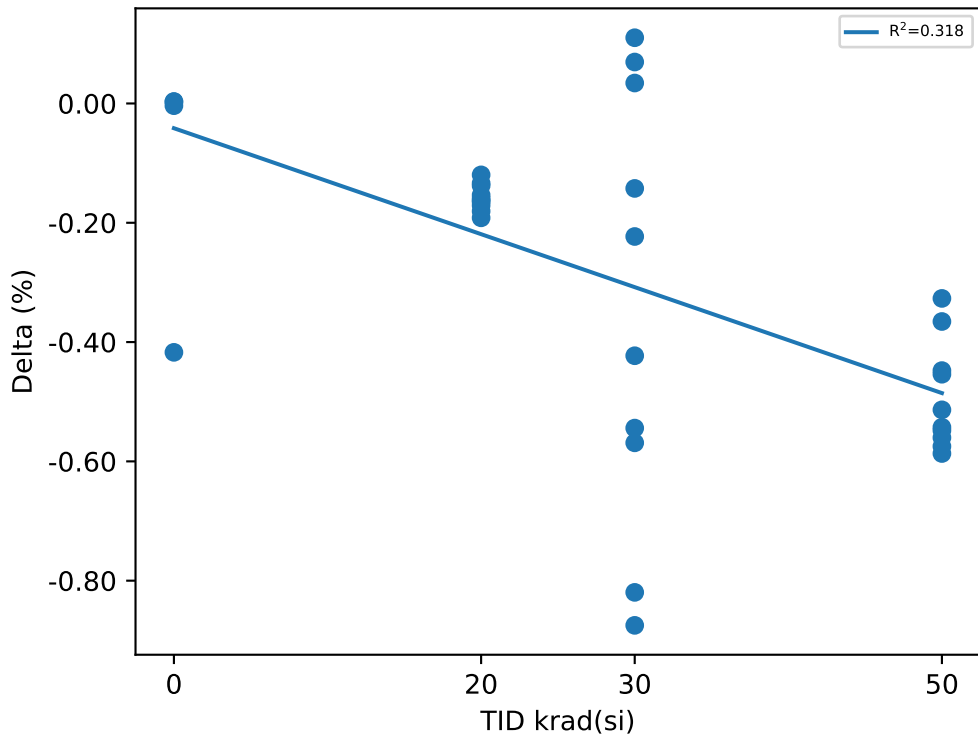
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 86.431 | 86.685 | 86.873 | 0.18756 | 86.435 | 86.581 | 86.758 | 0.16056 | -0.4172 | -0.10373 | 0.0033 | 0.20901 |
| 20 | 86.182 | 86.505 | 86.882 | 0.25623 | 85.994 | 86.348 | 86.723 | 0.27015 | -0.1917 | -0.15742 | -0.1197 | 0.022013 |
| 30 | 86.086 | 86.478 | 86.804 | 0.24886 | 85.749 | 86.14 | 86.53 | 0.24106 | -0.8749 | -0.33819 | 0.1102 | 0.36213 |
| 50 | 86.429 | 86.638 | 86.886 | 0.14765 | 85.869 | 86.146 | 86.438 | 0.20373 | -0.5868 | -0.49203 | -0.3268 | 0.0903 |

# Device Test: 15.85 VOH_PWRGD_10MA(_EVEL|VOH/PWRGD/1.6/3/0/0/10/@VOH_PWRGD_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 86.274 | 86.108 | -0.1665 |
| 2 | 20 | Bias | 86.276 | 86.092 | -0.1843 |
| 3 | 20 | Bias | 86.241 | 86.05 | -0.1907 |
| 4 | 20 | Bias | 86.994 | 86.835 | -0.1589 |
| 5 | 20 | Bias | 86.681 | 86.54 | -0.1413 |
| 6 | 20 | Unbiased | 86.644 | 86.522 | -0.1214 |
| 7 | 20 | Unbiased | 86.606 | 86.452 | -0.1543 |
| 8 | 20 | Unbiased | 86.968 | 86.837 | -0.1308 |
| 9 | 20 | Unbiased | 86.591 | 86.427 | -0.1642 |
| 10 | 20 | Unbiased | 86.755 | 86.598 | -0.1566 |
| 11 | 30 | Bias | 86.224 | 86.263 | 0.0389 |
| 12 | 30 | Bias | 86.403 | 85.894 | -0.5092 |
| 13 | 30 | Bias | 86.557 | 86.091 | -0.4656 |
| 14 | 30 | Bias | 86.751 | 86.249 | -0.5023 |
| 15 | 30 | Bias | 86.333 | 86.445 | 0.1125 |
| 16 | 30 | Unbiased | 86.921 | 86.049 | -0.8718 |
| 17 | 30 | Unbiased | 86.799 | 86.657 | -0.142 |
| 18 | 30 | Unbiased | 86.716 | 86.493 | -0.2232 |
| 19 | 30 | Unbiased | 86.363 | 86.427 | 0.0644 |
| 20 | 30 | Unbiased | 86.813 | 86.042 | -0.7709 |
| 21 | 50 | Bias | 86.746 | 86.417 | -0.3289 |
| 22 | 50 | Bias | 86.696 | 86.329 | -0.3671 |
| 23 | 50 | Bias | 86.739 | 86.26 | -0.4788 |
| 24 | 50 | Bias | 86.886 | 86.305 | -0.581 |
| 25 | 50 | Bias | 87.017 | 86.573 | -0.4443 |
| 26 | 50 | Unbiased | 86.622 | 86.037 | -0.5851 |
| 27 | 50 | Unbiased | 86.936 | 86.424 | -0.5125 |
| 28 | 50 | Unbiased | 86.543 | 85.964 | -0.5784 |
| 29 | 50 | Unbiased | 86.554 | 85.996 | -0.5585 |
| 30 | 50 | Unbiased | 86.692 | 86.153 | -0.5388 |
| 31 | 0 | Correlation | 86.528 | 86.533 | 0.0054 |
| 32 | 0 | Correlation | 86.725 | 86.731 | 0.0062 |
| 33 | 0 | Correlation | 86.836 | 86.836 | 0.0002 |
| 34 | 0 | Correlation | 86.941 | 86.552 | -0.3881 |

## Test Statistics (%)
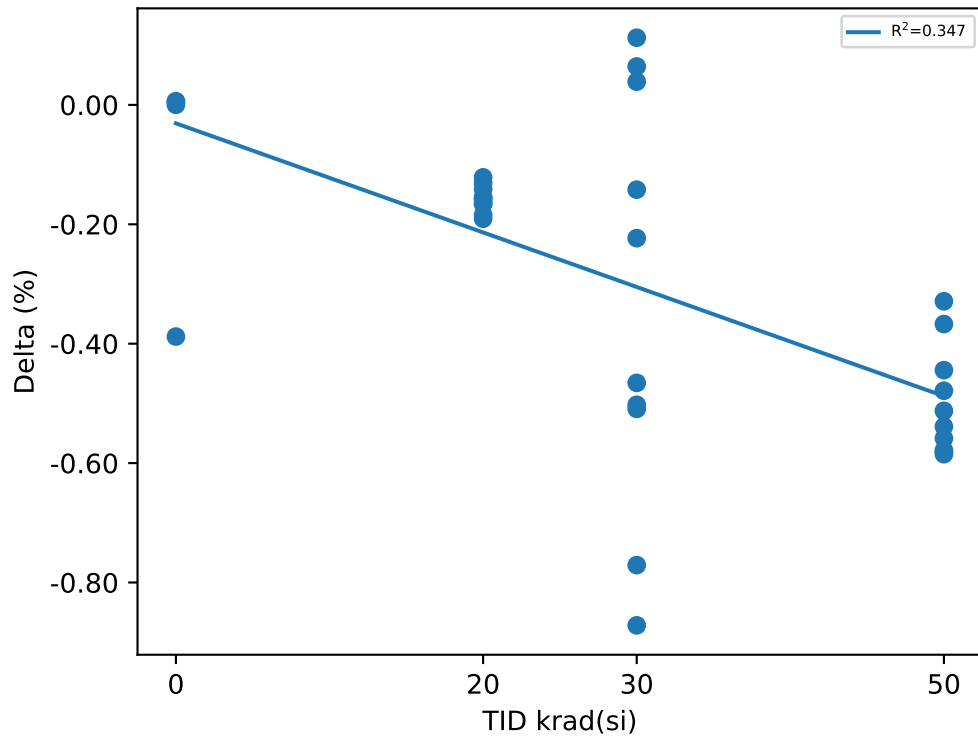
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 86.528 | 86.757 | 86.941 | 0.17648 | 86.533 | 86.663 | 86.836 | 0.14571 | -0.3881 | -0.094075 | 0.0062 | 0.19603 |
| 20 | 86.241 | 86.603 | 86.994 | 0.27143 | 86.05 | 86.446 | 86.837 | 0.28657 | -0.1907 | -0.1569 | -0.1214 | 0.021691 |
| 30 | 86.224 | 86.588 | 86.921 | 0.24316 | 85.894 | 86.261 | 86.657 | 0.24232 | -0.8718 | -0.32692 | 0.1125 | 0.34996 |
| 50 | 86.543 | 86.743 | 87.017 | 0.15915 | 85.964 | 86.246 | 86.573 | 0.20342 | -0.5851 | -0.49734 | -0.3289 | 0.091562 |
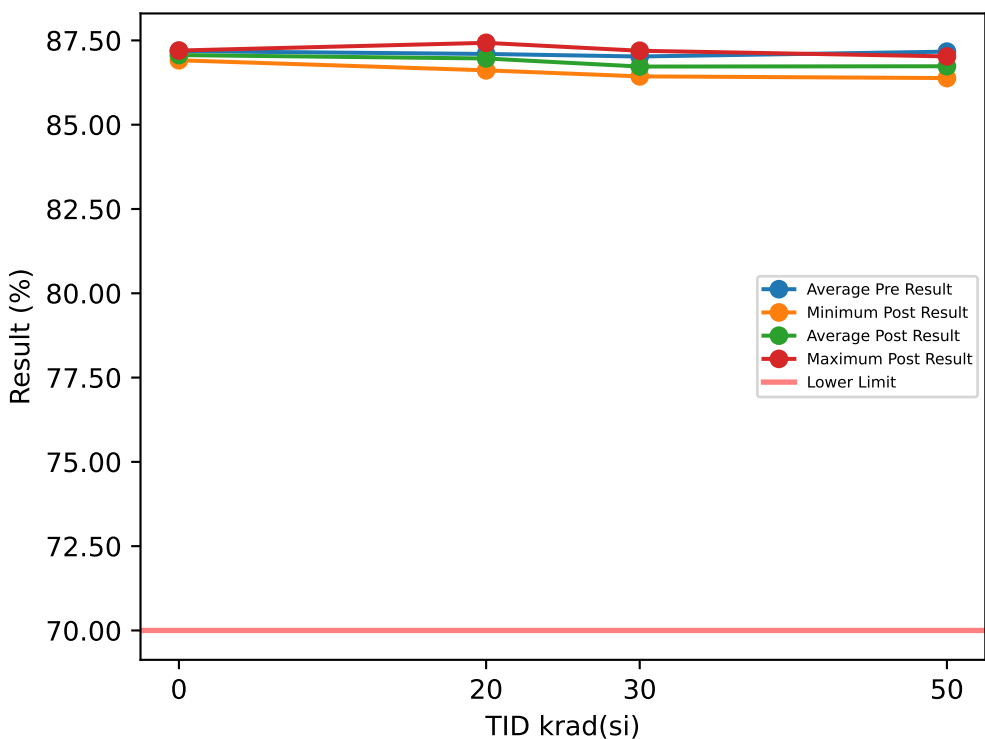
# Device Test: 15.86  VOH_EN_10MA(_EVEL|VOH/EN1/1.6/14/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

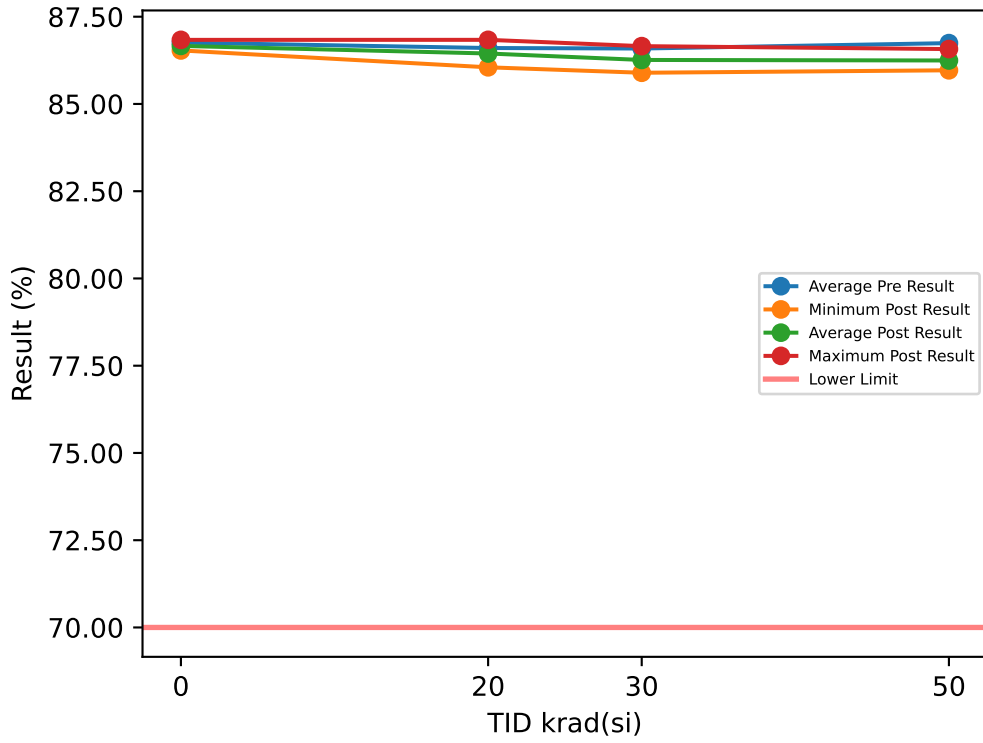| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 86.779 | 86.639 | -0.1401 |
| 2 | 20 | Bias | 86.81 | 86.659 | -0.1511 |
| 3 | 20 | Bias | 86.773 | 86.613 | -0.1602 |
| 4 | 20 | Bias | 87.428 | 87.301 | -0.1266 |
| 5 | 20 | Bias | 87.14 | 87.011 | -0.1292 |
| 6 | 20 | Unbiased | 87.112 | 87.012 | -0.1001 |
| 7 | 20 | Unbiased | 87.108 | 86.977 | -0.1317 |
| 8 | 20 | Unbiased | 87.537 | 87.428 | -0.1089 |
| 9 | 20 | Unbiased | 87.091 | 86.943 | -0.1484 |
| 10 | 20 | Unbiased | 87.205 | 87.061 | -0.1441 |
| 11 | 30 | Bias | 86.747 | 86.702 | -0.0448 |
| 12 | 30 | Bias | 86.949 | 86.453 | -0.4956 |
| 13 | 30 | Bias | 86.88 | 86.672 | -0.2088 |
| 14 | 30 | Bias | 87.167 | 86.59 | -0.5763 |
| 15 | 30 | Bias | 86.689 | 86.884 | 0.195 |
| 16 | 30 | Unbiased | 87.43 | 86.433 | -0.996 |
| 17 | 30 | Unbiased | 87.193 | 87.194 | 0.0002 |
| 18 | 30 | Unbiased | 87.146 | 86.924 | -0.2225 |
| 19 | 30 | Unbiased | 86.802 | 86.884 | 0.082 |
| 20 | 30 | Unbiased | 87.227 | 86.512 | -0.715 |
| 21 | 50 | Bias | 87.19 | 86.862 | -0.328 |
| 22 | 50 | Bias | 87.197 | 86.803 | -0.3937 |
| 23 | 50 | Bias | 87.167 | 86.824 | -0.3435 |
| 24 | 50 | Bias | 87.247 | 86.802 | -0.4445 |
| 25 | 50 | Bias | 87.421 | 87.026 | -0.3956 |
| 26 | 50 | Unbiased | 87.045 | 86.545 | -0.5006 |
| 27 | 50 | Unbiased | 87.296 | 86.841 | -0.4544 |
| 28 | 50 | Unbiased | 86.896 | 86.383 | -0.5123 |
| 29 | 50 | Unbiased | 87.067 | 86.575 | -0.4923 |
| 30 | 50 | Unbiased | 87.148 | 86.675 | -0.4737 |
| 31 | 0 | Correlation | 86.911 | 86.912 | 0.0008 |
| 32 | 0 | Correlation | 87.185 | 87.181 | -0.0039 |
| 33 | 0 | Correlation | 87.21 | 87.2 | -0.0099 |
| 34 | 0 | Correlation | 87.423 | 86.966 | -0.4569 |

## Test Statistics (%)
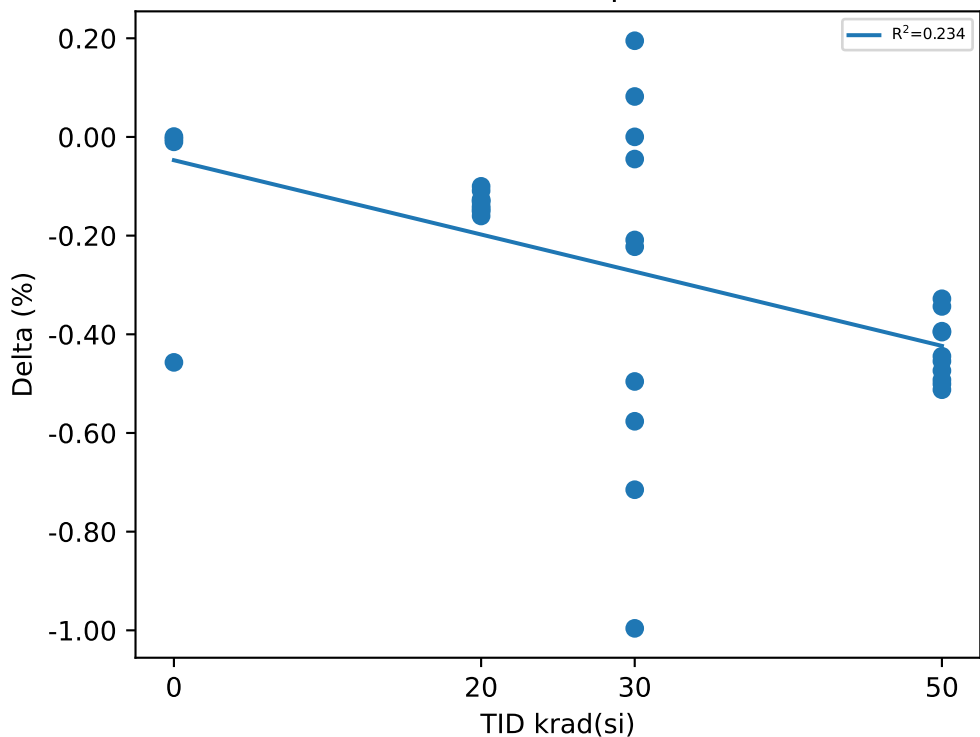
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 86.911 | 87.182 | 87.423 | 0.21017 | 86.912 | 87.065 | 87.2 | 0.14712 | -0.4569 | -0.11748 | 0.0008 | 0.22633 |
| 20 | 86.773 | 87.098 | 87.537 | 0.25936 | 86.613 | 86.964 | 87.428 | 0.27197 | -0.1602 | -0.13404 | -0.1001 | 0.01882 |
| 30 | 86.689 | 87.023 | 87.43 | 0.24363 | 86.433 | 86.725 | 87.194 | 0.24388 | -0.996 | -0.29818 | 0.195 | 0.38467 |
| 50 | 86.896 | 87.167 | 87.421 | 0.14445 | 86.383 | 86.734 | 87.026 | 0.18802 | -0.5123 | -0.43386 | -0.328 | 0.065483 |

# Device Test: 15.87  VOH_EN_10MA(_EVEL|VOH/EN2/1.6/14/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 87.013 | 86.89 | -0.1222 |
| 2 | 20 | Bias | 87.06 | 86.928 | -0.1319 |
| 3 | 20 | Bias | 86.918 | 86.745 | -0.1725 |
| 4 | 20 | Bias | 87.655 | 87.537 | -0.1181 |
| 5 | 20 | Bias | 87.273 | 87.159 | -0.1146 |
| 6 | 20 | Unbiased | 87.245 | 87.144 | -0.1017 |
| 7 | 20 | Unbiased | 87.283 | 87.161 | -0.1218 |
| 8 | 20 | Unbiased | 87.644 | 87.539 | -0.1046 |
| 9 | 20 | Unbiased | 87.268 | 87.146 | -0.1218 |
| 10 | 20 | Unbiased | 87.405 | 87.278 | -0.1267 |
| 11 | 30 | Bias | 86.893 | 86.855 | -0.0377 |
| 12 | 30 | Bias | 87.086 | 86.609 | -0.4775 |
| 13 | 30 | Bias | 87.091 | 86.82 | -0.2709 |
| 14 | 30 | Bias | 87.397 | 86.812 | -0.5851 |
| 15 | 30 | Bias | 86.913 | 87.132 | 0.2182 |
| 16 | 30 | Unbiased | 87.584 | 86.669 | -0.9151 |
| 17 | 30 | Unbiased | 87.441 | 87.359 | -0.0821 |
| 18 | 30 | Unbiased | 87.318 | 87.187 | -0.1309 |
| 19 | 30 | Unbiased | 87.027 | 87.071 | 0.0439 |
| 20 | 30 | Unbiased | 87.427 | 86.754 | -0.673 |
| 21 | 50 | Bias | 87.38 | 87.065 | -0.3151 |
| 22 | 50 | Bias | 87.329 | 87.018 | -0.3112 |
| 23 | 50 | Bias | 87.366 | 86.959 | -0.4074 |
| 24 | 50 | Bias | 87.463 | 87.024 | -0.4396 |
| 25 | 50 | Bias | 87.647 | 87.255 | -0.3921 |
| 26 | 50 | Unbiased | 87.22 | 86.736 | -0.4841 |
| 27 | 50 | Unbiased | 87.505 | 87.063 | -0.4418 |
| 28 | 50 | Unbiased | 87.168 | 86.671 | -0.497 |
| 29 | 50 | Unbiased | 87.168 | 86.68 | -0.4878 |
| 30 | 50 | Unbiased | 87.346 | 86.884 | -0.4616 |
| 31 | 0 | Correlation | 87.156 | 87.151 | -0.0055 |
| 32 | 0 | Correlation | 87.367 | 87.363 | -0.004 |
| 33 | 0 | Correlation | 87.287 | 87.287 | -0.0008 |
| 34 | 0 | Correlation | 87.575 | 87.115 | -0.4604 |

## Test Statistics (%)
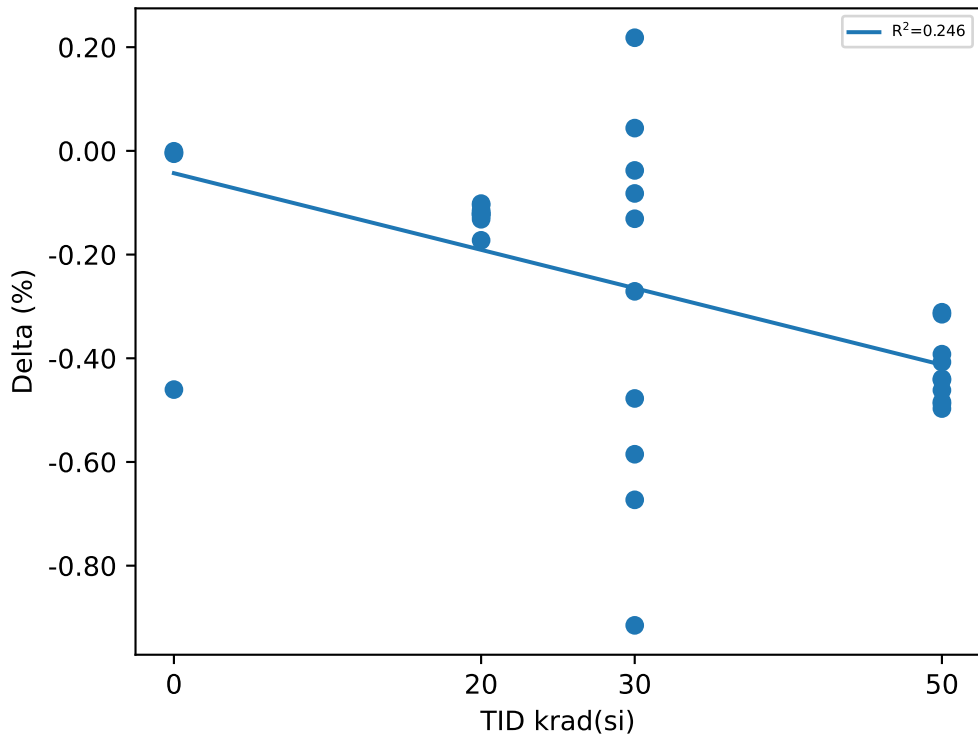
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 87.156 | 87.347 | 87.575 | 0.17545 | 87.115 | 87.229 | 87.363 | 0.11612 | -0.4604 | -0.11767 | -0.0008 | 0.22849 |
| 20 | 86.918 | 87.276 | 87.655 | 0.2453 | 86.745 | 87.153 | 87.539 | 0.25795 | -0.1725 | -0.12359 | -0.1017 | 0.019522 |
| 30 | 86.893 | 87.218 | 87.584 | 0.24446 | 86.609 | 86.927 | 87.359 | 0.24594 | -0.9151 | -0.29102 | 0.2182 | 0.35932 |
| 50 | 87.168 | 87.359 | 87.647 | 0.15229 | 86.671 | 86.935 | 87.255 | 0.19077 | -0.497 | -0.42377 | -0.3112 | 0.06738 |

# Device Test: 15.88  VOH_EN_10MA(_EVEL|VOH/EN3/1.6/14/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

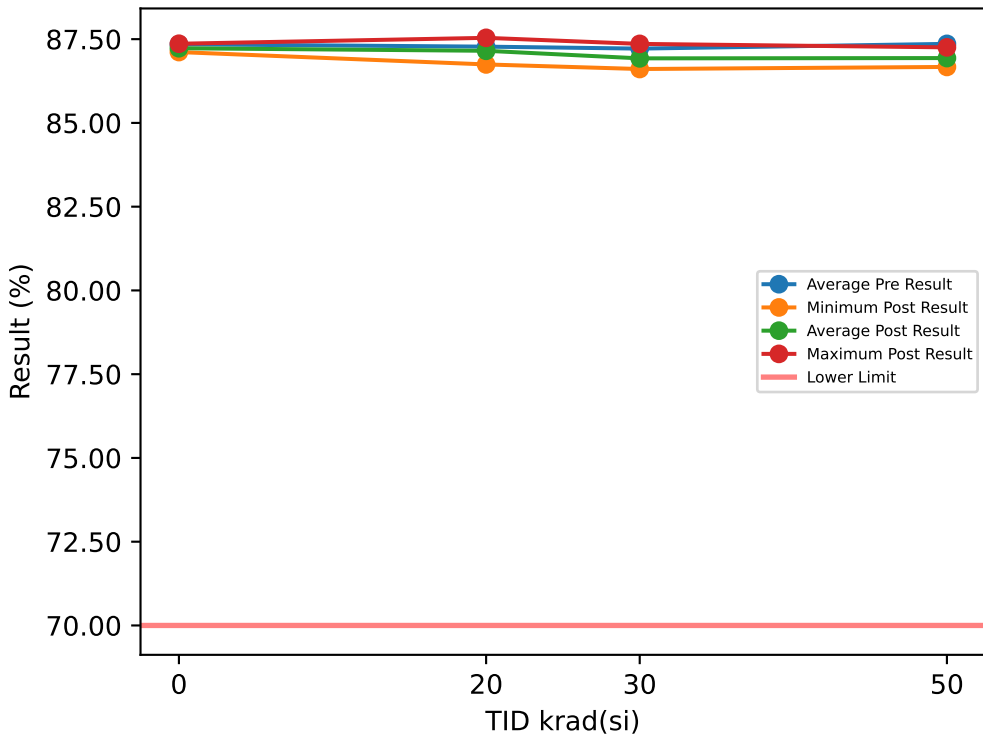| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 87.207 | 87.079 | -0.1278 |
| 2 | 20 | Bias | 87.223 | 87.088 | -0.1348 |
| 3 | 20 | Bias | 87.098 | 86.928 | -0.1703 |
| 4 | 20 | Bias | 87.791 | 87.661 | -0.1292 |
| 5 | 20 | Bias | 87.5 | 87.382 | -0.1183 |
| 6 | 20 | Unbiased | 87.488 | 87.392 | -0.0966 |
| 7 | 20 | Unbiased | 87.511 | 87.385 | -0.1269 |
| 8 | 20 | Unbiased | 87.852 | 87.745 | -0.107 |
| 9 | 20 | Unbiased | 87.463 | 87.345 | -0.1181 |
| 10 | 20 | Unbiased | 87.582 | 87.459 | -0.1222 |
| 11 | 30 | Bias | 87.137 | 87.1 | -0.0366 |
| 12 | 30 | Bias | 87.307 | 86.854 | -0.4532 |
| 13 | 30 | Bias | 87.322 | 87.045 | -0.2771 |
| 14 | 30 | Bias | 87.588 | 87.045 | -0.5429 |
| 15 | 30 | Bias | 87.161 | 87.325 | 0.1634 |
| 16 | 30 | Unbiased | 87.808 | 86.919 | -0.8887 |
| 17 | 30 | Unbiased | 87.654 | 87.585 | -0.0689 |
| 18 | 30 | Unbiased | 87.512 | 87.403 | -0.1098 |
| 19 | 30 | Unbiased | 87.224 | 87.265 | 0.0411 |
| 20 | 30 | Unbiased | 87.65 | 86.95 | -0.7002 |
| 21 | 50 | Bias | 87.58 | 87.301 | -0.2784 |
| 22 | 50 | Bias | 87.541 | 87.22 | -0.3214 |
| 23 | 50 | Bias | 87.561 | 87.168 | -0.393 |
| 24 | 50 | Bias | 87.645 | 87.217 | -0.4285 |
| 25 | 50 | Bias | 87.866 | 87.48 | -0.386 |
| 26 | 50 | Unbiased | 87.431 | 86.955 | -0.4768 |
| 27 | 50 | Unbiased | 87.686 | 87.246 | -0.4403 |
| 28 | 50 | Unbiased | 87.367 | 86.881 | -0.4862 |
| 29 | 50 | Unbiased | 87.425 | 86.952 | -0.4725 |
| 30 | 50 | Unbiased | 87.546 | 87.093 | -0.4533 |
| 31 | 0 | Correlation | 87.334 | 87.33 | -0.0035 |
| 32 | 0 | Correlation | 87.589 | 87.588 | -0.0014 |
| 33 | 0 | Correlation | 87.516 | 87.516 | -0.0002 |
| 34 | 0 | Correlation | 87.792 | 87.35 | -0.4422 |

## Test Statistics (%)
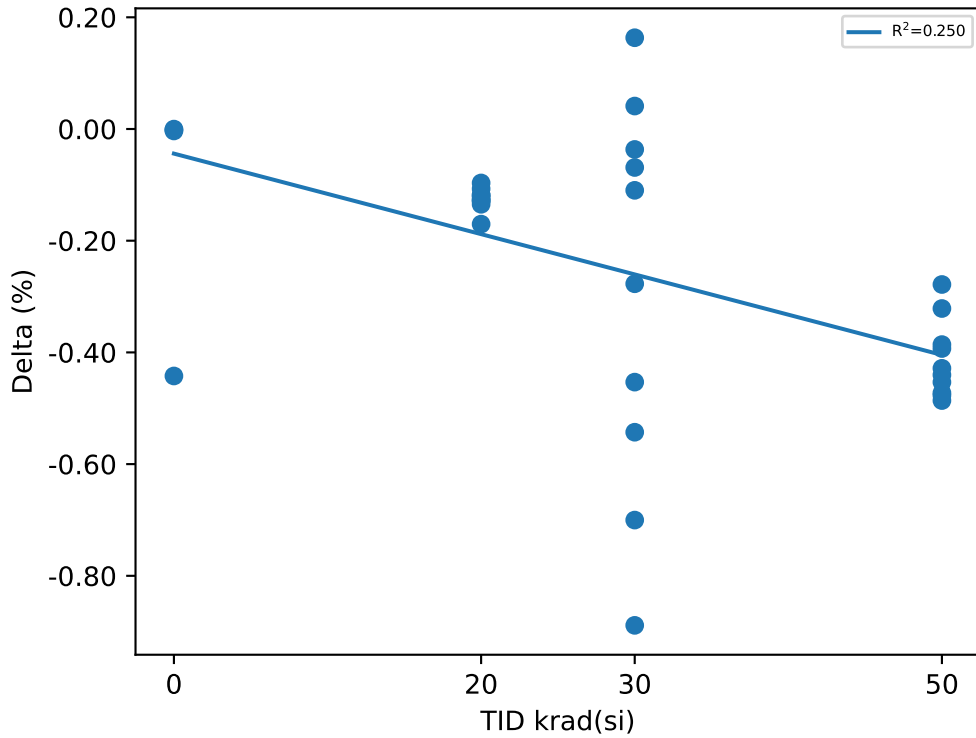
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 87.334 | 87.558 | 87.792 | 0.18946 | 87.33 | 87.446 | 87.588 | 0.12606 | -0.4422 | -0.11183 | -0.0002 | 0.22025 |
| 20 | 87.098 | 87.471 | 87.852 | 0.2432 | 86.928 | 87.346 | 87.745 | 0.25574 | -0.1703 | -0.12512 | -0.0966 | 0.019459 |
| 30 | 87.137 | 87.436 | 87.808 | 0.23567 | 86.854 | 87.149 | 87.585 | 0.23628 | -0.8887 | -0.28729 | 0.1634 | 0.34611 |
| 50 | 87.367 | 87.565 | 87.866 | 0.14519 | 86.881 | 87.151 | 87.48 | 0.18373 | -0.4862 | -0.41364 | -0.2784 | 0.069291 |
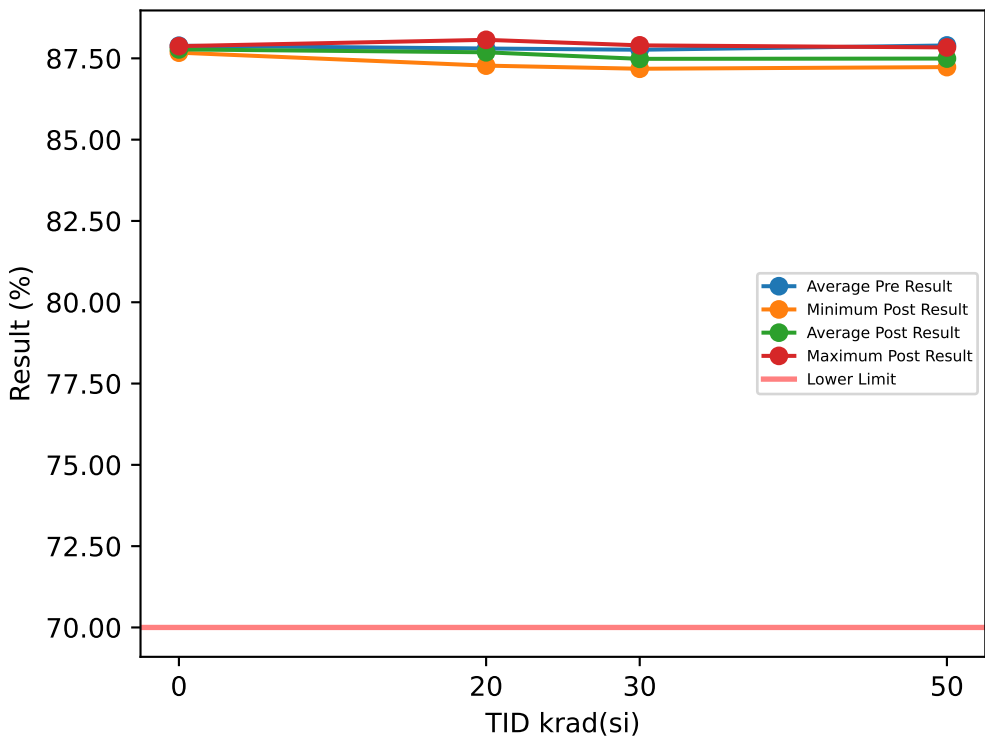
# Device Test: 15.89  VOH_EN_10MA(_EVEL|VOH/EN4/1.6/14/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

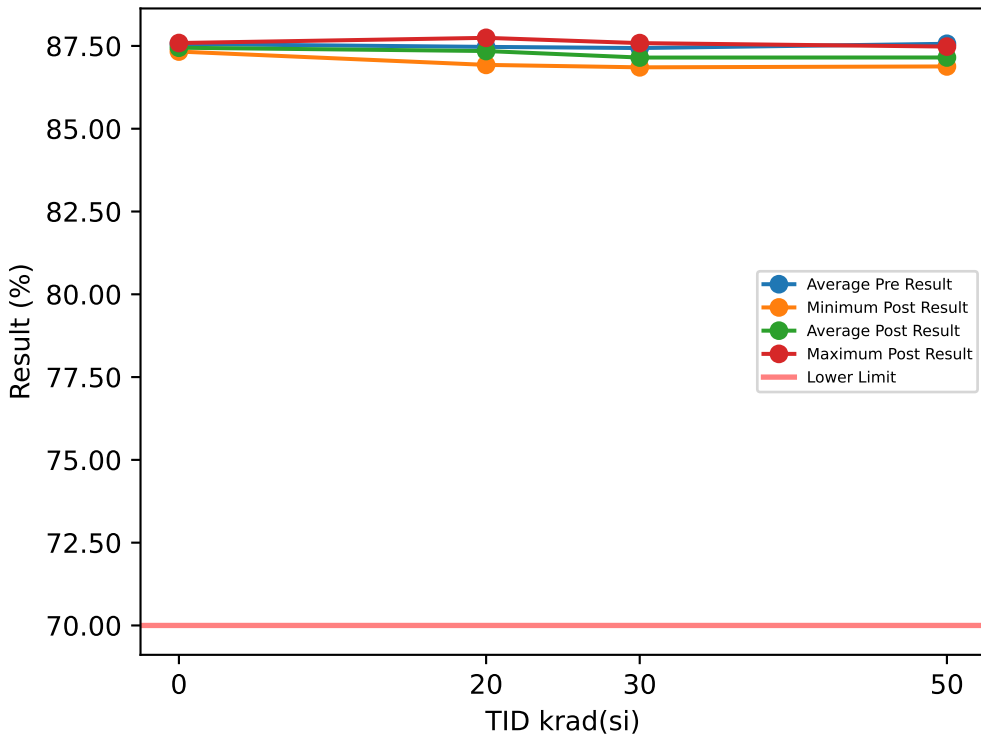| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 87.541 | 87.423 | -0.1181 |
| 2 | 20 | Bias | 87.553 | 87.432 | -0.1208 |
| 3 | 20 | Bias | 87.433 | 87.276 | -0.1571 |
| 4 | 20 | Bias | 88.141 | 88.022 | -0.1195 |
| 5 | 20 | Bias | 87.844 | 87.736 | -0.1078 |
| 6 | 20 | Unbiased | 87.833 | 87.741 | -0.0922 |
| 7 | 20 | Unbiased | 87.81 | 87.689 | -0.121 |
| 8 | 20 | Unbiased | 88.167 | 88.069 | -0.098 |
| 9 | 20 | Unbiased | 87.788 | 87.672 | -0.1162 |
| 10 | 20 | Unbiased | 87.919 | 87.799 | -0.1206 |
| 11 | 30 | Bias | 87.451 | 87.435 | -0.0163 |
| 12 | 30 | Bias | 87.635 | 87.18 | -0.4549 |
| 13 | 30 | Bias | 87.657 | 87.382 | -0.2755 |
| 14 | 30 | Bias | 87.912 | 87.393 | -0.5187 |
| 15 | 30 | Bias | 87.483 | 87.659 | 0.1769 |
| 16 | 30 | Unbiased | 88.115 | 87.25 | -0.8659 |
| 17 | 30 | Unbiased | 88.001 | 87.9 | -0.1009 |
| 18 | 30 | Unbiased | 87.827 | 87.756 | -0.0712 |
| 19 | 30 | Unbiased | 87.564 | 87.59 | 0.026 |
| 20 | 30 | Unbiased | 87.994 | 87.305 | -0.6885 |
| 21 | 50 | Bias | 87.901 | 87.656 | -0.2449 |
| 22 | 50 | Bias | 87.868 | 87.554 | -0.3142 |
| 23 | 50 | Bias | 87.875 | 87.497 | -0.378 |
| 24 | 50 | Bias | 88.008 | 87.55 | -0.458 |
| 25 | 50 | Bias | 88.207 | 87.836 | -0.3716 |
| 26 | 50 | Unbiased | 87.769 | 87.305 | -0.4637 |
| 27 | 50 | Unbiased | 87.997 | 87.568 | -0.4288 |
| 28 | 50 | Unbiased | 87.707 | 87.231 | -0.4761 |
| 29 | 50 | Unbiased | 87.751 | 87.294 | -0.4567 |
| 30 | 50 | Unbiased | 87.885 | 87.443 | -0.4423 |
| 31 | 0 | Correlation | 87.691 | 87.688 | -0.003 |
| 32 | 0 | Correlation | 87.873 | 87.875 | 0.0025 |
| 33 | 0 | Correlation | 87.864 | 87.861 | -0.0037 |
| 34 | 0 | Correlation | 88.124 | 87.675 | -0.4495 |

## Test Statistics (%)
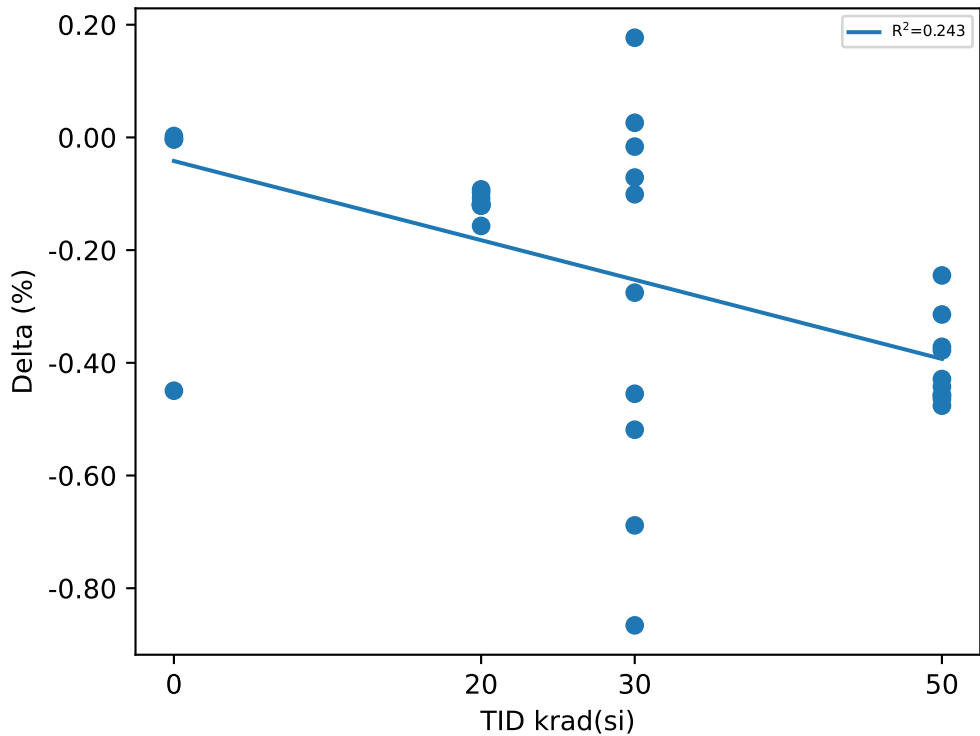
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 87.691 | 87.888 | 88.124 | 0.17837 | 87.675 | 87.775 | 87.875 | 0.10798 | -0.4495 | -0.11342 | 0.0025 | 0.22407 |
| 20 | 87.433 | 87.803 | 88.167 | 0.24292 | 87.276 | 87.686 | 88.069 | 0.25373 | -0.1571 | -0.11713 | -0.0922 | 0.017385 |
| 30 | 87.451 | 87.764 | 88.115 | 0.2365 | 87.18 | 87.485 | 87.9 | 0.23314 | -0.8659 | -0.2789 | 0.1769 | 0.34081 |
| 50 | 87.707 | 87.897 | 88.207 | 0.14686 | 87.231 | 87.493 | 87.836 | 0.18339 | -0.4761 | -0.40343 | -0.2449 | 0.075746 |
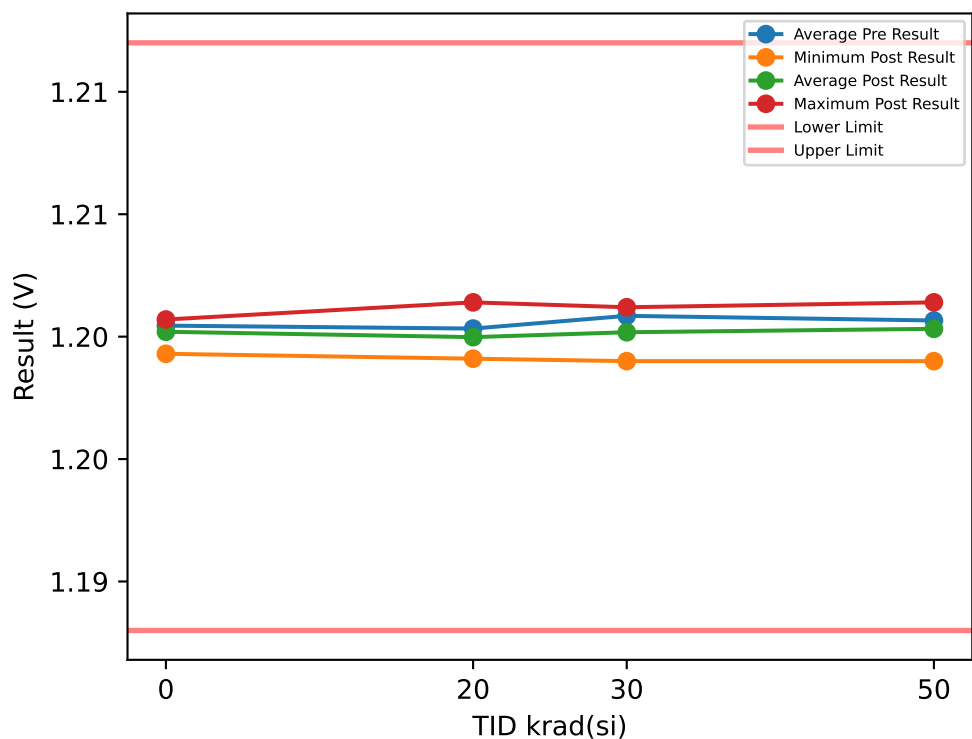
# Device Test: 15.9 REFCAP(_VOLTAGE|REFCAP/REFCAP//14/0/0/0/@REFCAP )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 1.188, Upper Limit = 1.212 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 1.2 | 1.1997 | -0.0003 |
| 2 | 20 | Bias | 1.1995 | 1.1991 | -0.0004 |
| 3 | 20 | Bias | 1.1998 | 1.2001 | 0.0003 |
| 4 | 20 | Bias | 1.2016 | 1.2012 | -0.0004 |
| 5 | 20 | Bias | 1.1999 | 1.1992 | -0.0007 |
| 6 | 20 | Unbiased | 1.2009 | 1.2012 | 0.0003 |
| 7 | 20 | Unbiased | 1.2014 | 1.2014 | 0 |
| 8 | 20 | Unbiased | 1.1998 | 1.1991 | -0.0007 |
| 9 | 20 | Unbiased | 1.2007 | 1.1997 | -0.001 |
| 10 | 20 | Unbiased | 1.1997 | 1.1991 | -0.0006 |
| 11 | 30 | Bias | 1.2007 | 1.199 | -0.0017 |
| 12 | 30 | Bias | 1.2008 | 1.1996 | -0.0012 |
| 13 | 30 | Bias | 1.1998 | 1.2004 | 0.0006 |
| 14 | 30 | Bias | 1.2015 | 1.1999 | -0.0016 |
| 15 | 30 | Bias | 1.201 | 1.2011 | 0.0001 |
| 16 | 30 | Unbiased | 1.2006 | 1.2012 | 0.0006 |
| 17 | 30 | Unbiased | 1.2002 | 1.2 | -0.0002 |
| 18 | 30 | Unbiased | 1.2013 | 1.2001 | -0.0012 |
| 19 | 30 | Unbiased | 1.2007 | 1.2008 | 0.0001 |
| 20 | 30 | Unbiased | 1.2019 | 1.1997 | -0.0022 |
| 21 | 50 | Bias | 1.2007 | 1.2014 | 0.0007 |
| 22 | 50 | Bias | 1.2007 | 1.199 | -0.0017 |
| 23 | 50 | Bias | 1.2011 | 1.2014 | 0.0003 |
| 24 | 50 | Bias | 1.201 | 1.2005 | -0.0005 |
| 25 | 50 | Bias | 1.2016 | 1.201 | -0.0006 |
| 26 | 50 | Unbiased | 1.2003 | 1.1998 | -0.0005 |
| 27 | 50 | Unbiased | 1.2015 | 1.2007 | -0.0008 |
| 28 | 50 | Unbiased | 1.2006 | 1.2005 | -0.0001 |
| 29 | 50 | Unbiased | 1.1997 | 1.1993 | -0.0004 |
| 30 | 50 | Unbiased | 1.1994 | 1.1996 | 0.0002 |
| 31 | 0 | Correlation | 1.2002 | 1.2002 | 0 |
| 32 | 0 | Correlation | 1.2006 | 1.2006 | 0 |
| 33 | 0 | Correlation | 1.2008 | 1.2007 | -0.0001 |
| 34 | 0 | Correlation | 1.2002 | 1.1993 | -0.0009 |
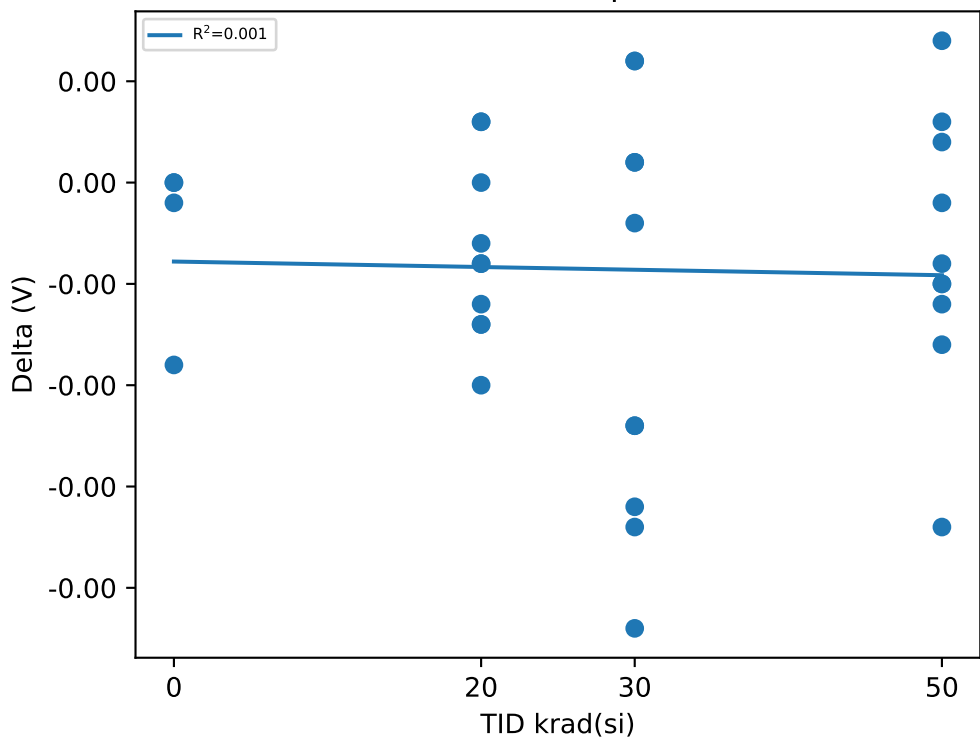
## Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.2002 | 1.2005 | 1.2008 | 0.0003 | 1.1993 | 1.2002 | 1.2007 | 0.0006377 | -0.0009 | -0.00025 | 0 | 0.00043589 |
| 20 | 1.1995 | 1.2003 | 1.2016 | 0.00075726 | 1.1991 | 1.2 | 1.2014 | 0.00094845 | -0.001 | -0.00035 | 0.0003 | 0.00043525 |
| 30 | 1.1998 | 1.2008 | 1.2019 | 0.00061328 | 1.199 | 1.2002 | 1.2012 | 0.00069889 | -0.0022 | -0.00067 | 0.0006 | 0.0010253 |
| 50 | 1.1994 | 1.2007 | 1.2016 | 0.00071056 | 1.199 | 1.2003 | 1.2014 | 0.00085479 | -0.0017 | -0.00034 | 0.0007 | 0.00066866 |
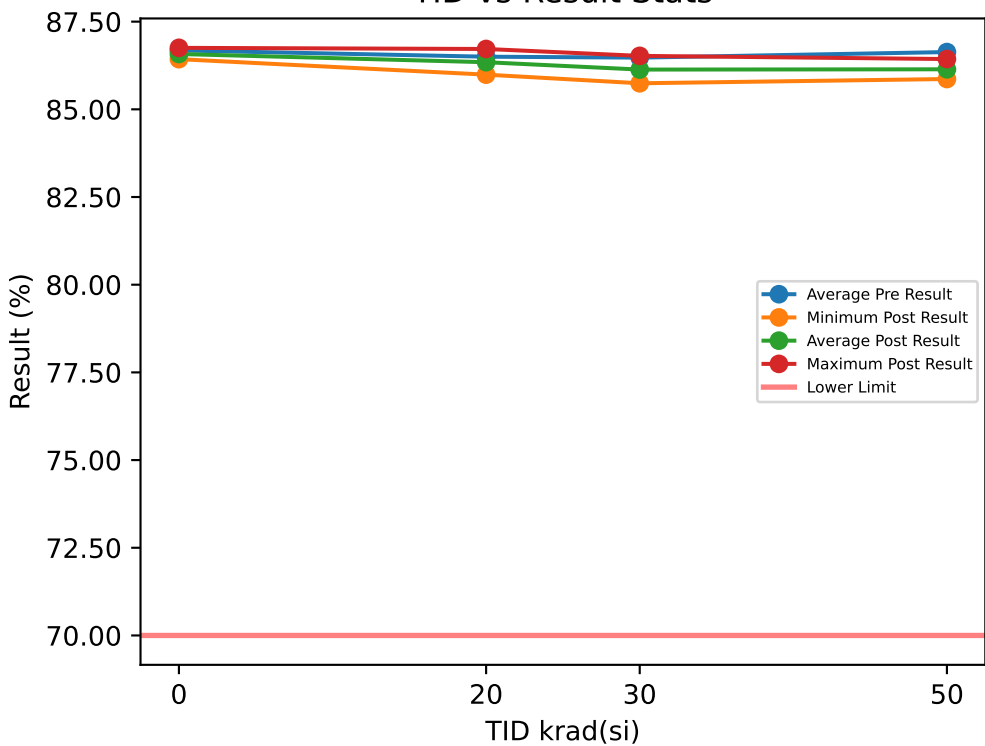
# Device Test: 15.90  VOH_SEQ_DONE_10MA(_EVEL|VOH/SEQ_DONE/1.6/14/0/0/10/@VOH_SEQ_DONE_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 86.174 | 86.012 | -0.1628 |
| 2 | 20 | Bias | 86.184 | 86 | -0.1837 |
| 3 | 20 | Bias | 86.18 | 85.989 | -0.1909 |
| 4 | 20 | Bias | 86.882 | 86.721 | -0.1609 |
| 5 | 20 | Bias | 86.586 | 86.443 | -0.1434 |
| 6 | 20 | Unbiased | 86.54 | 86.421 | -0.1195 |
| 7 | 20 | Unbiased | 86.509 | 86.356 | -0.1534 |
| 8 | 20 | Unbiased | 86.833 | 86.703 | -0.1306 |
| 9 | 20 | Unbiased | 86.474 | 86.308 | -0.1655 |
| 10 | 20 | Unbiased | 86.643 | 86.48 | -0.1632 |
| 11 | 30 | Bias | 86.08 | 86.148 | 0.0679 |
| 12 | 30 | Bias | 86.311 | 85.743 | -0.5686 |
| 13 | 30 | Bias | 86.418 | 85.994 | -0.4246 |
| 14 | 30 | Bias | 86.641 | 86.097 | -0.5443 |
| 15 | 30 | Bias | 86.219 | 86.331 | 0.1123 |
| 16 | 30 | Unbiased | 86.802 | 85.923 | -0.8784 |
| 17 | 30 | Unbiased | 86.668 | 86.524 | -0.1444 |
| 18 | 30 | Unbiased | 86.585 | 86.357 | -0.2286 |
| 19 | 30 | Unbiased | 86.258 | 86.289 | 0.0304 |
| 20 | 30 | Unbiased | 86.756 | 85.929 | -0.827 |
| 21 | 50 | Bias | 86.679 | 86.354 | -0.3254 |
| 22 | 50 | Bias | 86.626 | 86.258 | -0.3686 |
| 23 | 50 | Bias | 86.641 | 86.19 | -0.4508 |
| 24 | 50 | Bias | 86.746 | 86.2 | -0.5456 |
| 25 | 50 | Bias | 86.88 | 86.434 | -0.446 |
| 26 | 50 | Unbiased | 86.496 | 85.909 | -0.5868 |
| 27 | 50 | Unbiased | 86.783 | 86.27 | -0.5128 |
| 28 | 50 | Unbiased | 86.459 | 85.881 | -0.578 |
| 29 | 50 | Unbiased | 86.424 | 85.864 | -0.5602 |
| 30 | 50 | Unbiased | 86.591 | 86.051 | -0.5395 |
| 31 | 0 | Correlation | 86.424 | 86.431 | 0.0061 |
| 32 | 0 | Correlation | 86.669 | 86.674 | 0.0045 |
| 33 | 0 | Correlation | 86.754 | 86.753 | -0.0014 |
| 34 | 0 | Correlation | 86.87 | 86.451 | -0.419 |

## Test Statistics (%)
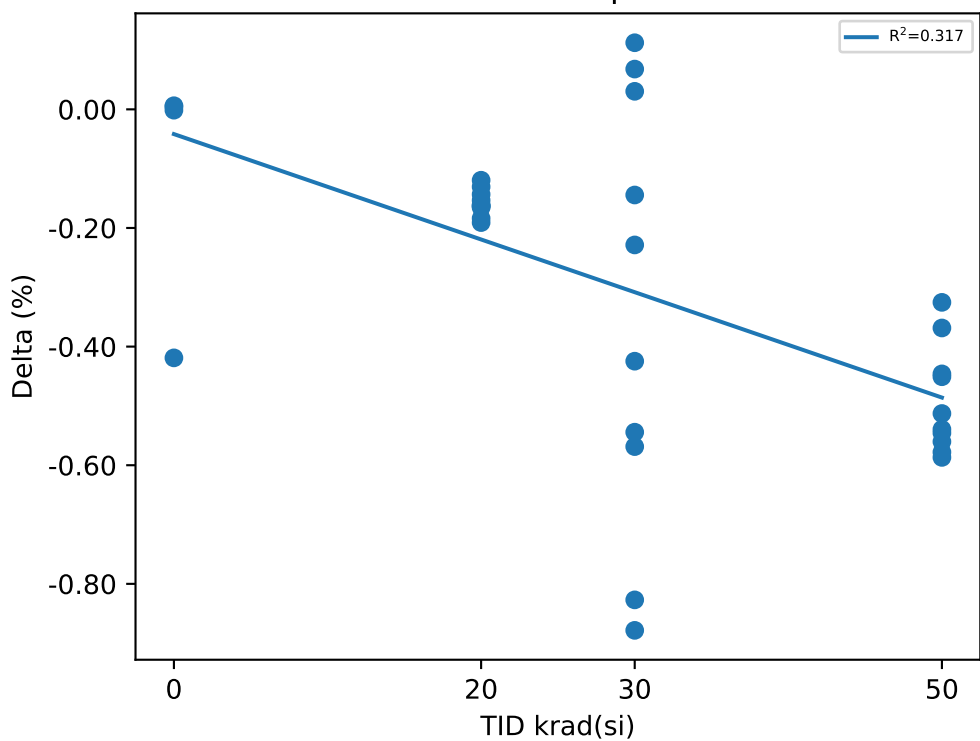
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 86.424 | 86.68 | 86.87 | 0.18892 | 86.431 | 86.577 | 86.753 | 0.16086 | -0.419 | -0.10245 | 0.0061 | 0.21106 |
| 20 | 86.174 | 86.501 | 86.882 | 0.25721 | 85.989 | 86.343 | 86.721 | 0.27097 | -0.1909 | -0.15739 | -0.1195 | 0.021912 |
| 30 | 86.08 | 86.474 | 86.802 | 0.24977 | 85.743 | 86.133 | 86.524 | 0.24154 | -0.8784 | -0.34053 | 0.1123 | 0.36317 |
| 50 | 86.424 | 86.632 | 86.88 | 0.14649 | 85.864 | 86.141 | 86.434 | 0.20382 | -0.5868 | -0.49137 | -0.3254 | 0.090301 |

# Device Test: 15.91  VOH_PWRGD_10MA(_EVEL|VOH/PWRGD/1.6/14/0/0/10/@VOH_PWRGD_10MA )
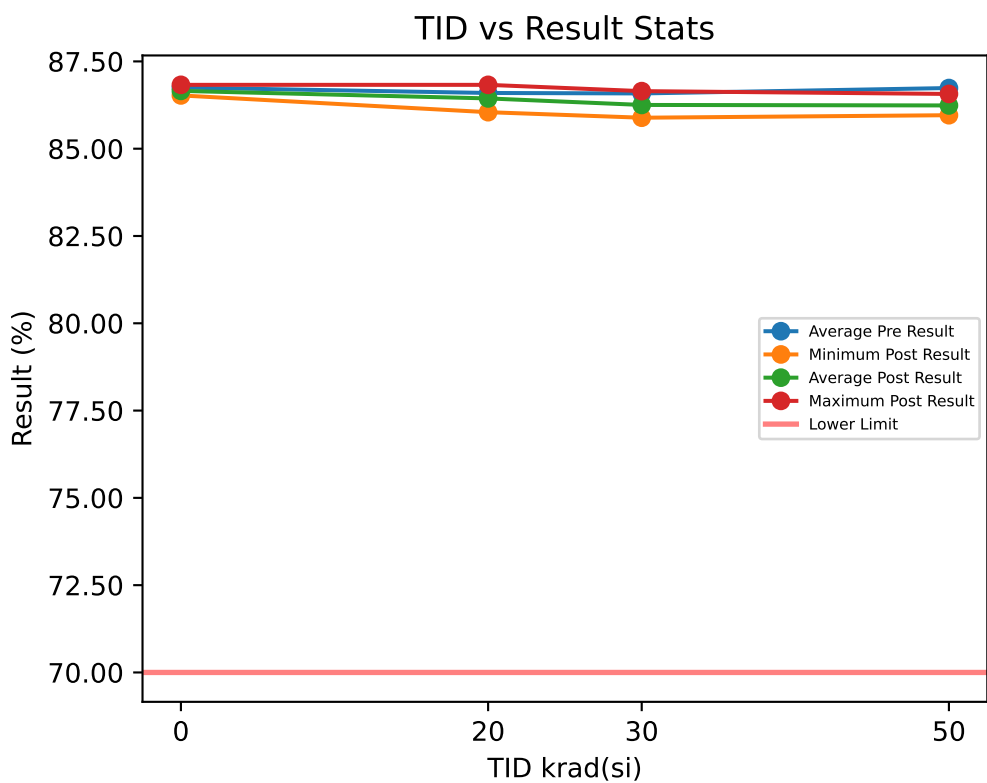
## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 86.266 | 86.099 | -0.1671 |
| 2 | 20 | Bias | 86.267 | 86.089 | -0.1783 |
| 3 | 20 | Bias | 86.234 | 86.046 | -0.1882 |
| 4 | 20 | Bias | 86.988 | 86.828 | -0.1593 |
| 5 | 20 | Bias | 86.673 | 86.535 | -0.1382 |
| 6 | 20 | Unbiased | 86.635 | 86.514 | -0.1203 |
| 7 | 20 | Unbiased | 86.602 | 86.446 | -0.156 |
| 8 | 20 | Unbiased | 86.962 | 86.829 | -0.1337 |
| 9 | 20 | Unbiased | 86.584 | 86.421 | -0.1634 |
| 10 | 20 | Unbiased | 86.749 | 86.594 | -0.1554 |
| 11 | 30 | Bias | 86.22 | 86.254 | 0.0342 |
| 12 | 30 | Bias | 86.398 | 85.887 | -0.5104 |
| 13 | 30 | Bias | 86.551 | 86.084 | -0.4671 |
| 14 | 30 | Bias | 86.744 | 86.239 | -0.5056 |
| 15 | 30 | Bias | 86.329 | 86.441 | 0.1123 |
| 16 | 30 | Unbiased | 86.917 | 86.04 | -0.877 |
| 17 | 30 | Unbiased | 86.79 | 86.649 | -0.1411 |
| 18 | 30 | Unbiased | 86.713 | 86.487 | -0.2259 |
| 19 | 30 | Unbiased | 86.356 | 86.416 | 0.0599 |
| 20 | 30 | Unbiased | 86.808 | 86.035 | -0.7726 |
| 21 | 50 | Bias | 86.743 | 86.408 | -0.3348 |
| 22 | 50 | Bias | 86.694 | 86.323 | -0.3703 |
| 23 | 50 | Bias | 86.731 | 86.254 | -0.4773 |
| 24 | 50 | Bias | 86.88 | 86.297 | -0.5826 |
| 25 | 50 | Bias | 87.011 | 86.568 | -0.4431 |
| 26 | 50 | Unbiased | 86.614 | 86.031 | -0.5836 |
| 27 | 50 | Unbiased | 86.931 | 86.415 | -0.5162 |
| 28 | 50 | Unbiased | 86.536 | 85.959 | -0.5765 |
| 29 | 50 | Unbiased | 86.547 | 85.987 | -0.5601 |
| 30 | 50 | Unbiased | 86.687 | 86.147 | -0.5398 |
| 31 | 0 | Correlation | 86.521 | 86.526 | 0.0047 |
| 32 | 0 | Correlation | 86.716 | 86.722 | 0.006 |
| 33 | 0 | Correlation | 86.836 | 86.829 | -0.0074 |
| 34 | 0 | Correlation | 86.932 | 86.546 | -0.3858 |
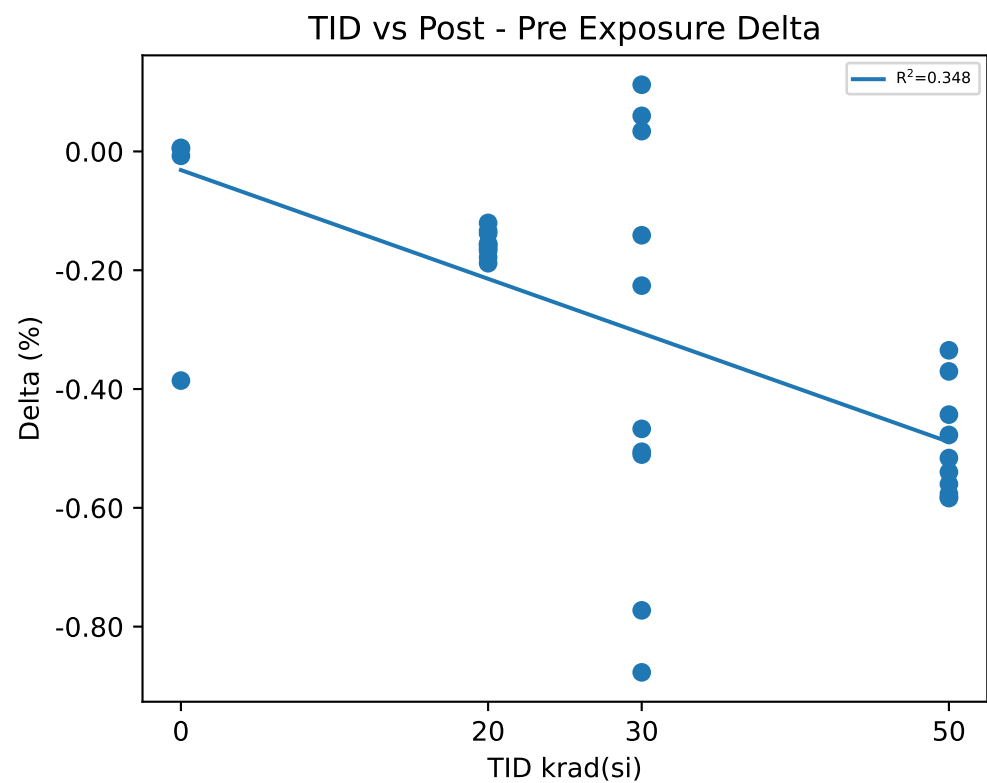
## Test Statistics (%)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 86.521 | 86.751 | 86.932 | 0.17705 | 86.526 | 86.656 | 86.829 | 0.1453 | -0.3858 | -0.095625 | 0.006 | 0.19354 |
| 20 | 86.234 | 86.596 | 86.988 | 0.27212 | 86.046 | 86.44 | 86.829 | 0.28581 | -0.1882 | -0.15599 | -0.1203 | 0.02058 |
| 30 | 86.22 | 86.583 | 86.917 | 0.24292 | 85.887 | 86.253 | 86.649 | 0.24231 | -0.877 | -0.32933 | 0.1123 | 0.35025 |
| 50 | 86.536 | 86.737 | 87.011 | 0.15959 | 85.959 | 86.239 | 86.568 | 0.2033 | -0.5836 | -0.49843 | -0.3348 | 0.090039 |

# Device Test: 15.92  VOH_EN_10MA(_EVEL|VOH/EN1/7/3/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 98.92 | 98.927 | 0.0066 |
| 2 | 20 | Bias | 98.921 | 98.927 | 0.0058 |
| 3 | 20 | Bias | 98.919 | 98.924 | 0.005 |
| 4 | 20 | Bias | 98.946 | 98.951 | 0.0045 |
| 5 | 20 | Bias | 98.936 | 98.941 | 0.0048 |
| 6 | 20 | Unbiased | 98.933 | 98.94 | 0.0069 |
| 7 | 20 | Unbiased | 98.933 | 98.937 | 0.0038 |
| 8 | 20 | Unbiased | 98.942 | 98.946 | 0.0041 |
| 9 | 20 | Unbiased | 98.937 | 98.94 | 0.0033 |
| 10 | 20 | Unbiased | 98.943 | 98.945 | 0.0021 |
| 11 | 30 | Bias | 98.916 | 98.939 | 0.0234 |
| 12 | 30 | Bias | 98.926 | 98.929 | 0.0029 |
| 13 | 30 | Bias | 98.922 | 98.937 | 0.0157 |
| 14 | 30 | Bias | 98.934 | 98.934 | -0.0008 |
| 15 | 30 | Bias | 98.913 | 98.945 | 0.032 |
| 16 | 30 | Unbiased | 98.945 | 98.925 | -0.0194 |
| 17 | 30 | Unbiased | 98.939 | 98.956 | 0.0164 |
| 18 | 30 | Unbiased | 98.94 | 98.948 | 0.0076 |
| 19 | 30 | Unbiased | 98.919 | 98.948 | 0.0295 |
| 20 | 30 | Unbiased | 98.939 | 98.929 | -0.0104 |
| 21 | 50 | Bias | 98.938 | 98.949 | 0.0113 |
| 22 | 50 | Bias | 98.933 | 98.947 | 0.0134 |
| 23 | 50 | Bias | 98.939 | 98.942 | 0.0034 |
| 24 | 50 | Bias | 98.934 | 98.949 | 0.015 |
| 25 | 50 | Bias | 98.945 | 98.944 | -0.0011 |
| 26 | 50 | Unbiased | 98.936 | 98.932 | -0.0036 |
| 27 | 50 | Unbiased | 98.941 | 98.938 | -0.003 |
| 28 | 50 | Unbiased | 98.928 | 98.926 | -0.0018 |
| 29 | 50 | Unbiased | 98.932 | 98.928 | -0.0037 |
| 30 | 50 | Unbiased | 98.937 | 98.933 | -0.0036 |
| 31 | 0 | Correlation | 98.929 | 98.928 | -0.0008 |
| 32 | 0 | Correlation | 98.939 | 98.938 | -0.0015 |
| 33 | 0 | Correlation | 98.939 | 98.936 | -0.0024 |
| 34 | 0 | Correlation | 98.948 | 98.928 | -0.0203 |

## Test Statistics (%)
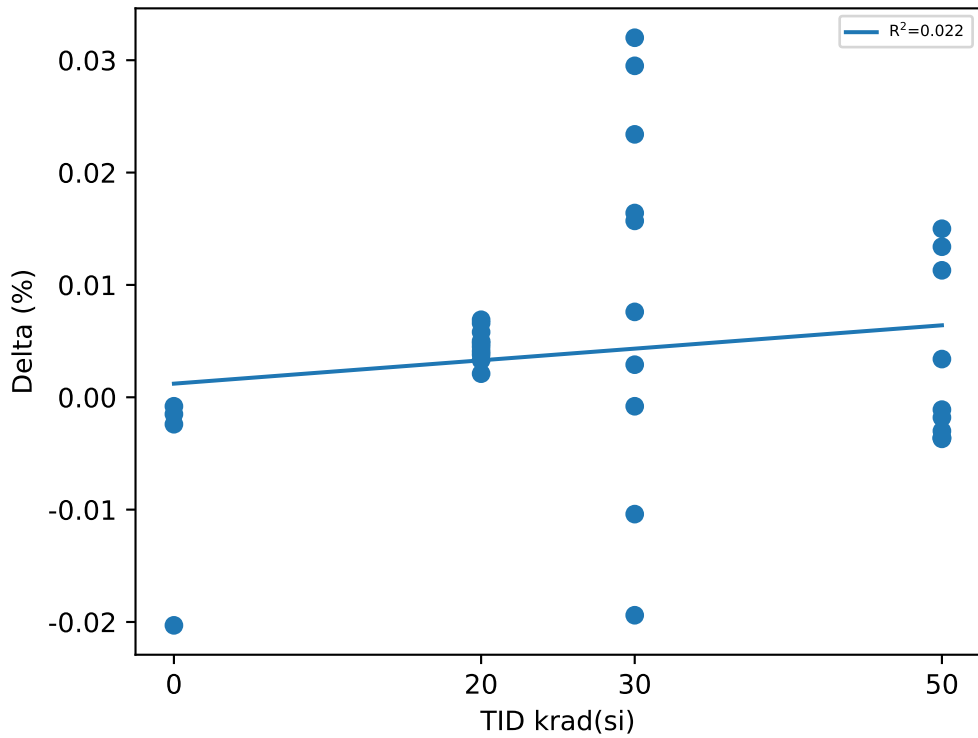
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 98.929 | 98.939 | 98.948 | 0.007927 | 98.928 | 98.933 | 98.938 | 0.0050708 | -0.0203 | -0.00625 | -0.0008 | 0.0093895 |
| 20 | 98.919 | 98.933 | 98.946 | 0.0099882 | 98.924 | 98.938 | 98.951 | 0.0091503 | 0.0021 | 0.00469 | 0.0069 | 0.0014791 |
| 30 | 98.913 | 98.929 | 98.945 | 0.011473 | 98.925 | 98.939 | 98.956 | 0.010074 | -0.0194 | 0.00969 | 0.032 | 0.016897 |
| 50 | 98.928 | 98.936 | 98.945 | 0.0048128 | 98.926 | 98.939 | 98.949 | 0.0084853 | -0.0037 | 0.00263 | 0.015 | 0.0076572 |

# Device Test: 15.93  VOH_EN_10MA(_EVEL|VOH/EN2/7/3/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

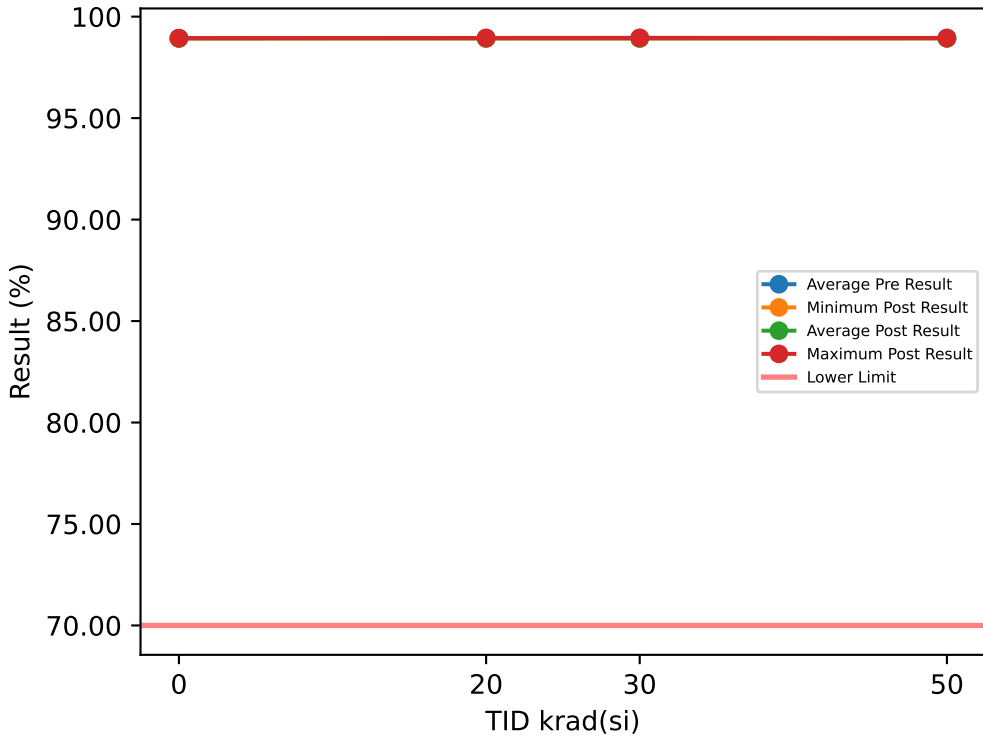| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 98.942 | 98.948 | 0.0067 |
| 2 | 20 | Bias | 98.944 | 98.95 | 0.0061 |
| 3 | 20 | Bias | 98.934 | 98.938 | 0.0037 |
| 4 | 20 | Bias | 98.965 | 98.97 | 0.0052 |
| 5 | 20 | Bias | 98.952 | 98.956 | 0.0046 |
| 6 | 20 | Unbiased | 98.947 | 98.954 | 0.0064 |
| 7 | 20 | Unbiased | 98.951 | 98.953 | 0.0023 |
| 8 | 20 | Unbiased | 98.956 | 98.96 | 0.0042 |
| 9 | 20 | Unbiased | 98.954 | 98.959 | 0.0049 |
| 10 | 20 | Unbiased | 98.963 | 98.966 | 0.0032 |
| 11 | 30 | Bias | 98.931 | 98.954 | 0.0224 |
| 12 | 30 | Bias | 98.94 | 98.942 | 0.0013 |
| 13 | 30 | Bias | 98.942 | 98.951 | 0.0093 |
| 14 | 30 | Bias | 98.956 | 98.952 | -0.0042 |
| 15 | 30 | Bias | 98.931 | 98.966 | 0.0347 |
| 16 | 30 | Unbiased | 98.959 | 98.942 | -0.0169 |
| 17 | 30 | Unbiased | 98.96 | 98.968 | 0.0084 |
| 18 | 30 | Unbiased | 98.954 | 98.967 | 0.0128 |
| 19 | 30 | Unbiased | 98.939 | 98.962 | 0.0229 |
| 20 | 30 | Unbiased | 98.956 | 98.948 | -0.0085 |
| 21 | 50 | Bias | 98.956 | 98.964 | 0.0084 |
| 22 | 50 | Bias | 98.948 | 98.964 | 0.016 |
| 23 | 50 | Bias | 98.96 | 98.956 | -0.0038 |
| 24 | 50 | Bias | 98.953 | 98.968 | 0.0145 |
| 25 | 50 | Bias | 98.966 | 98.965 | -0.0014 |
| 26 | 50 | Unbiased | 98.952 | 98.95 | -0.0026 |
| 27 | 50 | Unbiased | 98.96 | 98.957 | -0.0026 |
| 28 | 50 | Unbiased | 98.948 | 98.946 | -0.0015 |
| 29 | 50 | Unbiased | 98.944 | 98.941 | -0.0029 |
| 30 | 50 | Unbiased | 98.955 | 98.952 | -0.003 |
| 31 | 0 | Correlation | 98.948 | 98.947 | -0.0008 |
| 32 | 0 | Correlation | 98.959 | 98.957 | -0.0019 |
| 33 | 0 | Correlation | 98.952 | 98.95 | -0.0019 |
| 34 | 0 | Correlation | 98.964 | 98.944 | -0.0194 |

## Test Statistics (%)
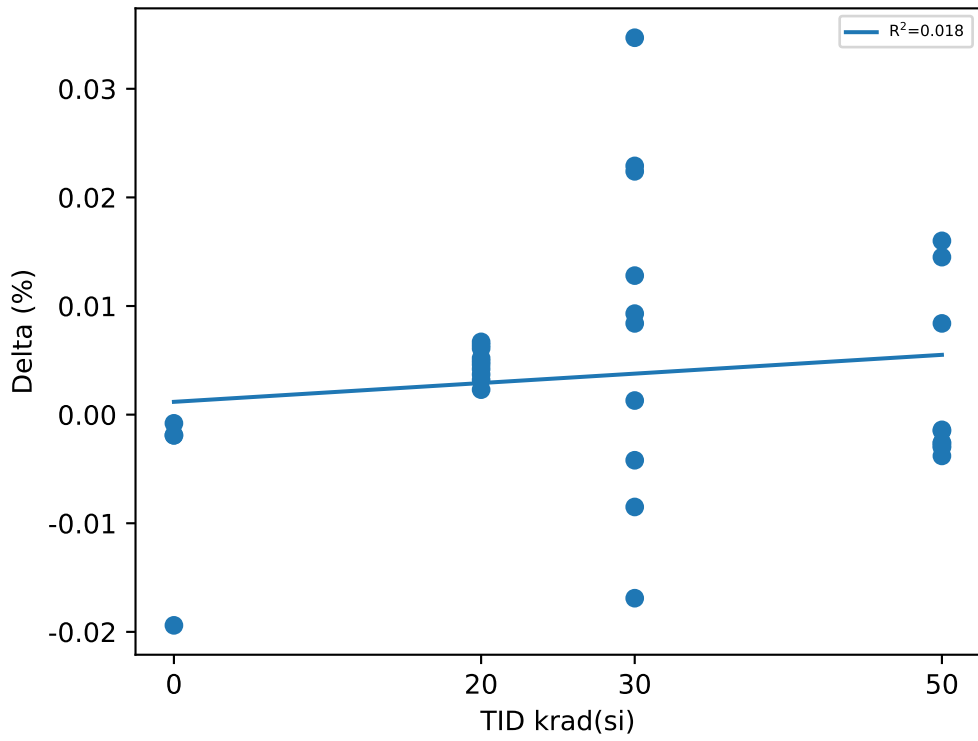
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 98.948 | 98.956 | 98.964 | 0.0070971 | 98.944 | 98.95 | 98.957 | 0.0054224 | -0.0194 | -0.006 | -0.0008 | 0.0089484 |
| 20 | 98.934 | 98.951 | 98.965 | 0.0094583 | 98.938 | 98.955 | 98.97 | 0.0092167 | 0.0023 | 0.00473 | 0.0067 | 0.0014299 |
| 30 | 98.931 | 98.947 | 98.96 | 0.011297 | 98.942 | 98.955 | 98.968 | 0.0099902 | -0.0169 | 0.00822 | 0.0347 | 0.015821 |
| 50 | 98.944 | 98.954 | 98.966 | 0.0067107 | 98.941 | 98.956 | 98.968 | 0.0090117 | -0.0038 | 0.00211 | 0.016 | 0.0077594 |

# Device Test: 15.94  VOH_EN_10MA(_EVEL|VOH/EN3/7/3/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

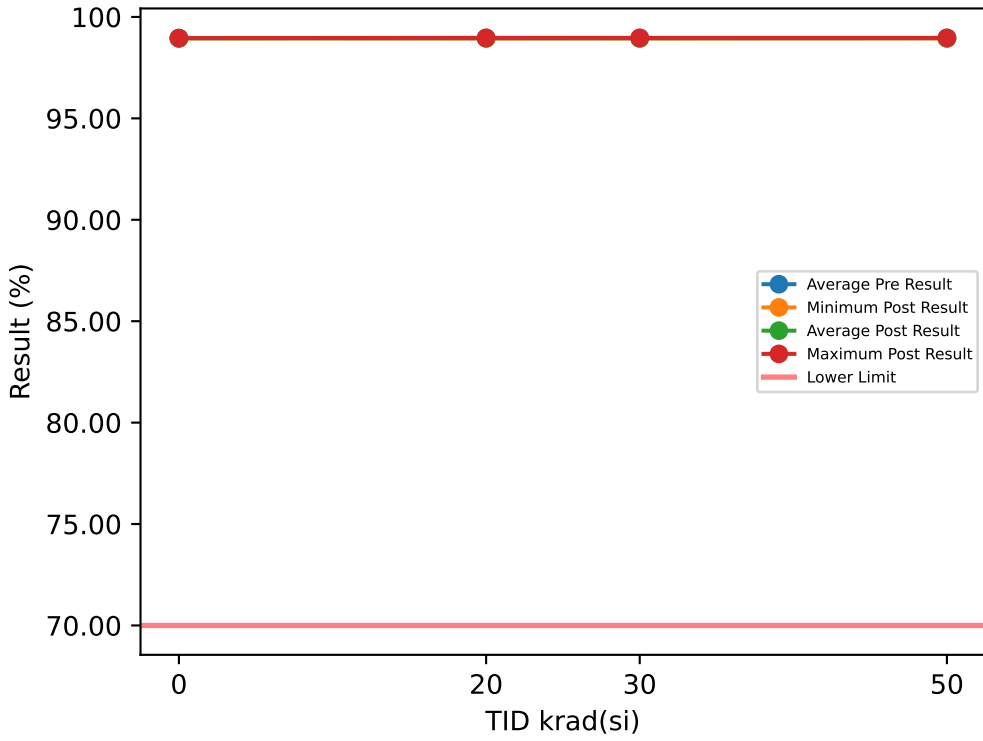| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 98.983 | 98.989 | 0.0061 |
| 2 | 20 | Bias | 98.983 | 98.989 | 0.006 |
| 3 | 20 | Bias | 98.975 | 98.98 | 0.0043 |
| 4 | 20 | Bias | 99.004 | 99.009 | 0.0052 |
| 5 | 20 | Bias | 98.995 | 99 | 0.0053 |
| 6 | 20 | Unbiased | 98.992 | 98.998 | 0.0055 |
| 7 | 20 | Unbiased | 98.996 | 98.998 | 0.0028 |
| 8 | 20 | Unbiased | 98.999 | 99.004 | 0.0046 |
| 9 | 20 | Unbiased | 98.997 | 99.001 | 0.0041 |
| 10 | 20 | Unbiased | 99.004 | 99.007 | 0.003 |
| 11 | 30 | Bias | 98.977 | 98.998 | 0.0207 |
| 12 | 30 | Bias | 98.985 | 98.987 | 0.0021 |
| 13 | 30 | Bias | 98.986 | 98.994 | 0.0085 |
| 14 | 30 | Bias | 98.997 | 98.995 | -0.0018 |
| 15 | 30 | Bias | 98.977 | 99.006 | 0.0288 |
| 16 | 30 | Unbiased | 99.002 | 98.987 | -0.0157 |
| 17 | 30 | Unbiased | 99.003 | 99.011 | 0.0078 |
| 18 | 30 | Unbiased | 98.998 | 99.009 | 0.0111 |
| 19 | 30 | Unbiased | 98.983 | 99.005 | 0.0215 |
| 20 | 30 | Unbiased | 99 | 98.991 | -0.0088 |
| 21 | 50 | Bias | 98.997 | 99.007 | 0.0099 |
| 22 | 50 | Bias | 98.991 | 99.004 | 0.0137 |
| 23 | 50 | Bias | 99 | 98.997 | -0.0034 |
| 24 | 50 | Bias | 98.996 | 99.008 | 0.0118 |
| 25 | 50 | Bias | 99.008 | 99.008 | -0.0005 |
| 26 | 50 | Unbiased | 98.996 | 98.993 | -0.0023 |
| 27 | 50 | Unbiased | 99.001 | 98.999 | -0.0014 |
| 28 | 50 | Unbiased | 98.99 | 98.988 | -0.0016 |
| 29 | 50 | Unbiased | 98.989 | 98.986 | -0.0027 |
| 30 | 50 | Unbiased | 98.997 | 98.994 | -0.0022 |
| 31 | 0 | Correlation | 98.989 | 98.988 | -0.0005 |
| 32 | 0 | Correlation | 99.001 | 99 | -0.0006 |
| 33 | 0 | Correlation | 98.995 | 98.994 | -0.0005 |
| 34 | 0 | Correlation | 99.006 | 98.988 | -0.0178 |

## Test Statistics (%)
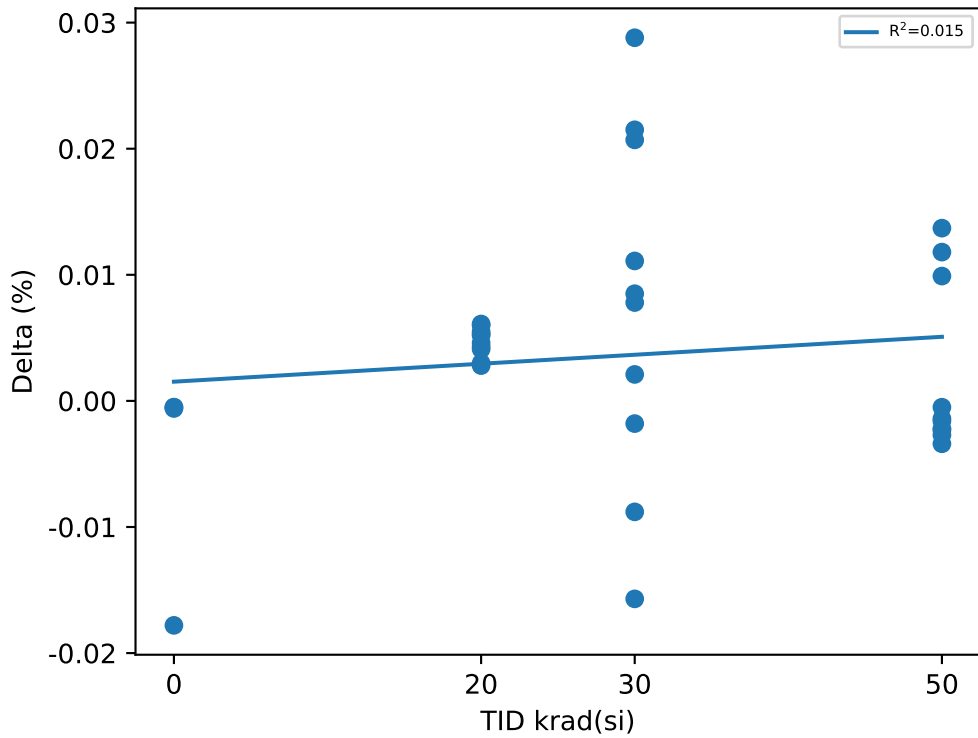
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 98.989 | 98.998 | 99.006 | 0.0074661 | 98.988 | 98.993 | 99 | 0.0057102 | -0.0178 | -0.00485 | -0.0005 | 0.0086335 |
| 20 | 98.975 | 98.993 | 99.004 | 0.0094806 | 98.98 | 98.997 | 99.009 | 0.0090734 | 0.0028 | 0.00469 | 0.0061 | 0.0011513 |
| 30 | 98.977 | 98.991 | 99.003 | 0.010262 | 98.987 | 98.998 | 99.011 | 0.0089432 | -0.0157 | 0.00742 | 0.0288 | 0.013974 |
| 50 | 98.989 | 98.996 | 99.008 | 0.0058474 | 98.986 | 98.998 | 99.008 | 0.0080648 | -0.0034 | 0.00213 | 0.0137 | 0.0067768 |

# Device Test: 15.95  VOH_EN_10MA(_EVEL|VOH/EN4/7/3/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

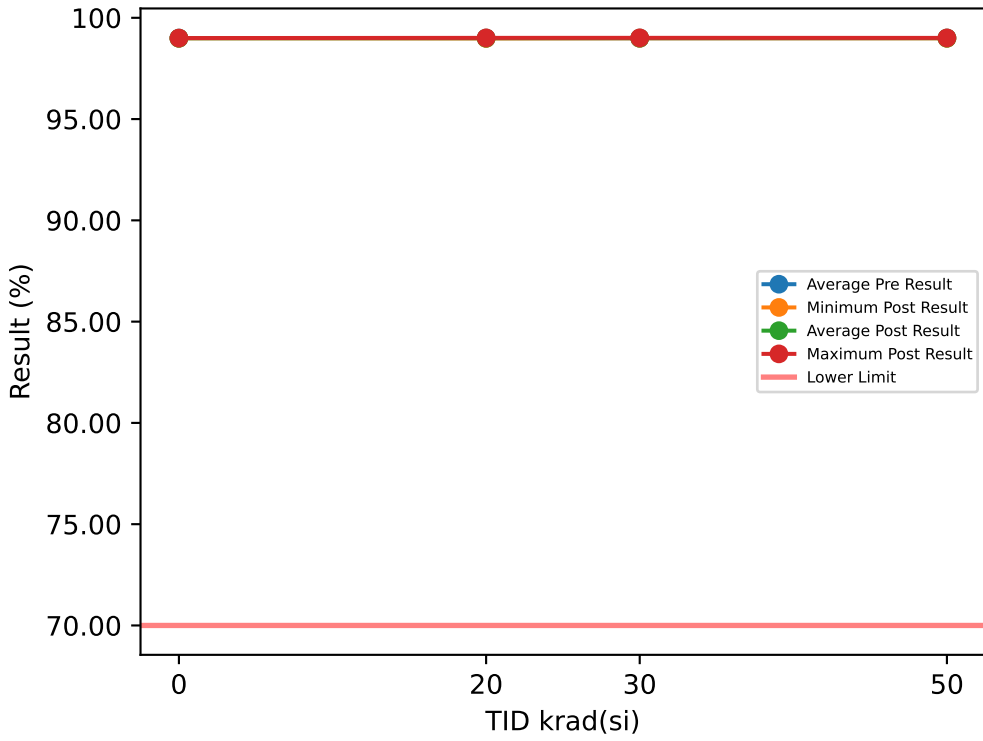| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.049 | 99.054 | 0.0056 |
| 2 | 20 | Bias | 99.052 | 99.056 | 0.0043 |
| 3 | 20 | Bias | 99.043 | 99.046 | 0.0033 |
| 4 | 20 | Bias | 99.071 | 99.074 | 0.0038 |
| 5 | 20 | Bias | 99.063 | 99.067 | 0.0042 |
| 6 | 20 | Unbiased | 99.061 | 99.067 | 0.0057 |
| 7 | 20 | Unbiased | 99.061 | 99.063 | 0.0024 |
| 8 | 20 | Unbiased | 99.067 | 99.071 | 0.0041 |
| 9 | 20 | Unbiased | 99.062 | 99.066 | 0.0041 |
| 10 | 20 | Unbiased | 99.07 | 99.072 | 0.0024 |
| 11 | 30 | Bias | 99.046 | 99.062 | 0.0168 |
| 12 | 30 | Bias | 99.05 | 99.053 | 0.0032 |
| 13 | 30 | Bias | 99.053 | 99.059 | 0.0056 |
| 14 | 30 | Bias | 99.063 | 99.061 | -0.0017 |
| 15 | 30 | Bias | 99.044 | 99.071 | 0.0272 |
| 16 | 30 | Unbiased | 99.068 | 99.053 | -0.0153 |
| 17 | 30 | Unbiased | 99.066 | 99.076 | 0.0096 |
| 18 | 30 | Unbiased | 99.061 | 99.072 | 0.0111 |
| 19 | 30 | Unbiased | 99.048 | 99.068 | 0.0193 |
| 20 | 30 | Unbiased | 99.066 | 99.056 | -0.0097 |
| 21 | 50 | Bias | 99.062 | 99.071 | 0.0092 |
| 22 | 50 | Bias | 99.058 | 99.067 | 0.0094 |
| 23 | 50 | Bias | 99.065 | 99.063 | -0.0023 |
| 24 | 50 | Bias | 99.064 | 99.072 | 0.0076 |
| 25 | 50 | Bias | 99.076 | 99.076 | 0.0001 |
| 26 | 50 | Unbiased | 99.059 | 99.057 | -0.0027 |
| 27 | 50 | Unbiased | 99.065 | 99.062 | -0.0029 |
| 28 | 50 | Unbiased | 99.058 | 99.057 | -0.0012 |
| 29 | 50 | Unbiased | 99.058 | 99.056 | -0.0023 |
| 30 | 50 | Unbiased | 99.064 | 99.062 | -0.0022 |
| 31 | 0 | Correlation | 99.057 | 99.056 | -0.0007 |
| 32 | 0 | Correlation | 99.063 | 99.062 | -0.0009 |
| 33 | 0 | Correlation | 99.061 | 99.06 | -0.0011 |
| 34 | 0 | Correlation | 99.072 | 99.055 | -0.0173 |

## Test Statistics (%)
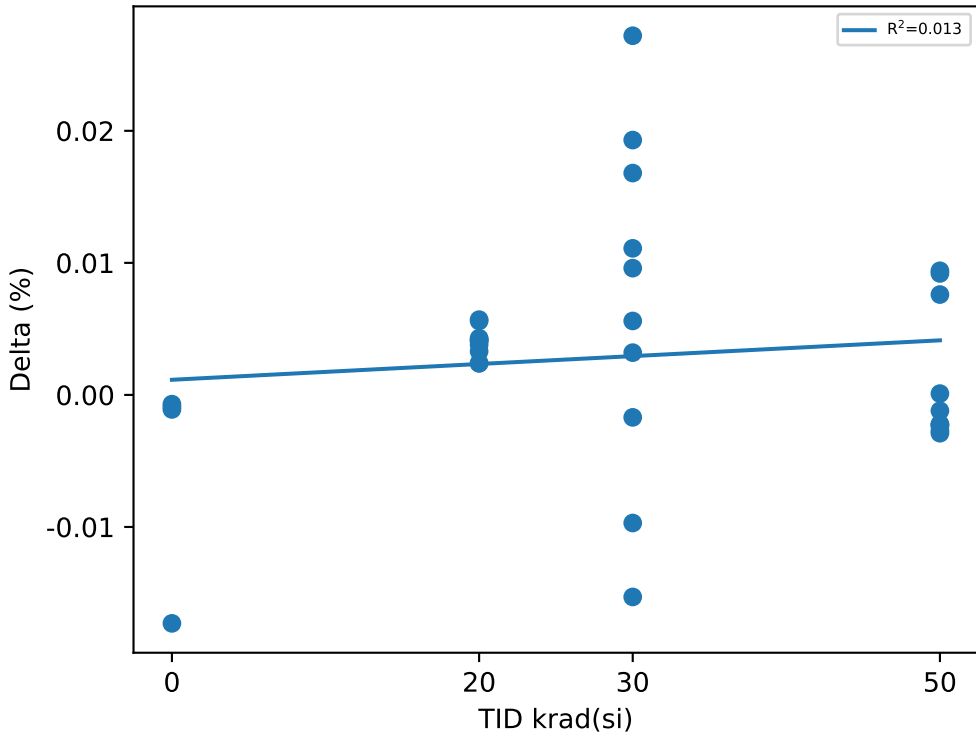
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 99.057 | 99.063 | 99.072 | 0.0063354 | 99.055 | 99.058 | 99.062 | 0.0036428 | -0.0173 | -0.005 | -0.0007 | 0.0082016 |
| 20 | 99.043 | 99.06 | 99.071 | 0.009223 | 99.046 | 99.064 | 99.074 | 0.0090051 | 0.0024 | 0.00399 | 0.0057 | 0.001118 |
| 30 | 99.044 | 99.057 | 99.068 | 0.0093142 | 99.053 | 99.063 | 99.076 | 0.0082463 | -0.0153 | 0.00661 | 0.0272 | 0.013105 |
| 50 | 99.058 | 99.063 | 99.076 | 0.0052749 | 99.056 | 99.064 | 99.076 | 0.0068986 | -0.0029 | 0.00127 | 0.0094 | 0.0052409 |
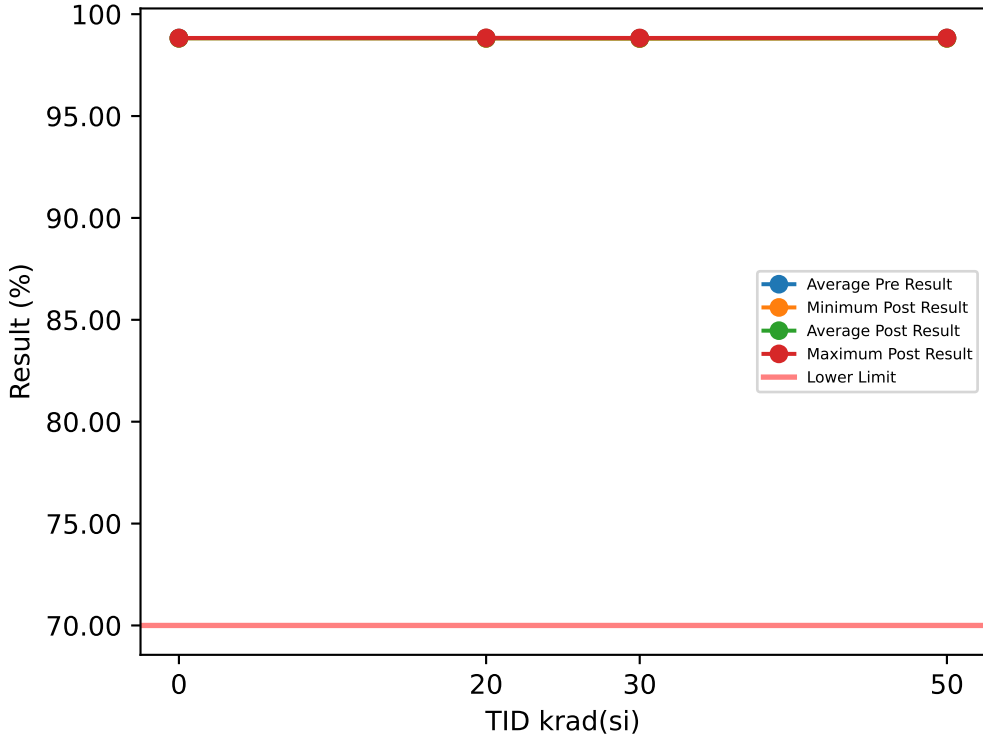
# Device Test: 15.96  VOH_SEQ_DONE_10MA(_EVEL|VOH/SEQ_DONE/7/3/0/0/10/@VOH_SEQ_DONE_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

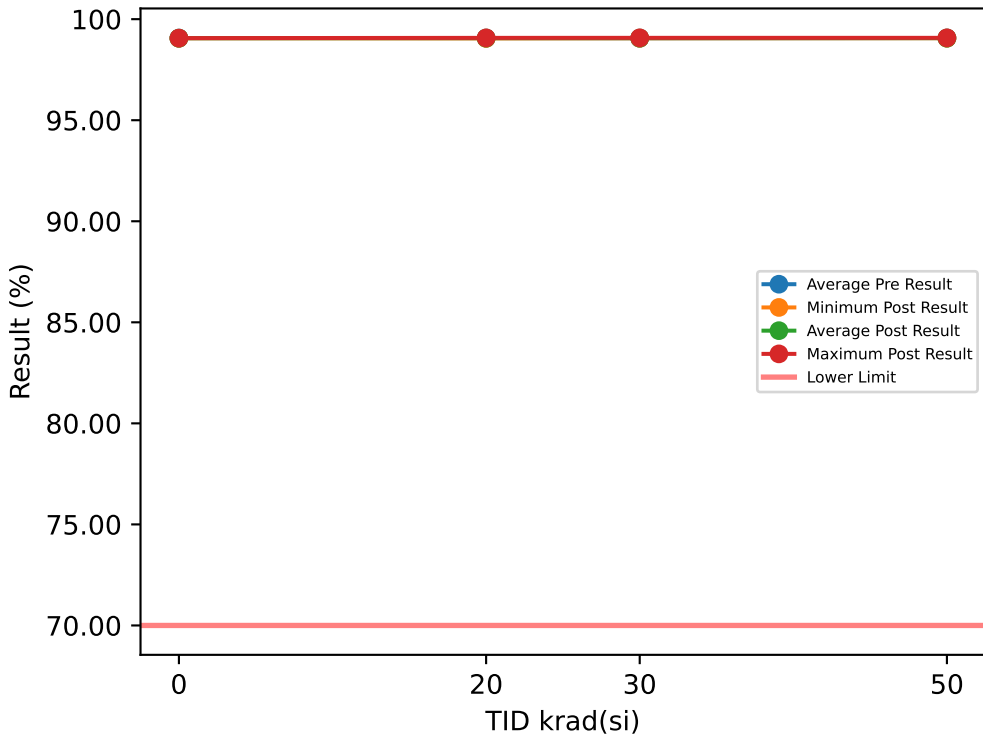| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 98.803 | 98.812 | 0.0083 |
| 2 | 20 | Bias | 98.804 | 98.811 | 0.0077 |
| 3 | 20 | Bias | 98.8 | 98.807 | 0.0066 |
| 4 | 20 | Bias | 98.832 | 98.838 | 0.0064 |
| 5 | 20 | Bias | 98.826 | 98.832 | 0.006 |
| 6 | 20 | Unbiased | 98.819 | 98.826 | 0.0073 |
| 7 | 20 | Unbiased | 98.821 | 98.825 | 0.0045 |
| 8 | 20 | Unbiased | 98.82 | 98.826 | 0.0054 |
| 9 | 20 | Unbiased | 98.821 | 98.826 | 0.0046 |
| 10 | 20 | Unbiased | 98.832 | 98.835 | 0.0039 |
| 11 | 30 | Bias | 98.795 | 98.816 | 0.0207 |
| 12 | 30 | Bias | 98.809 | 98.797 | -0.0113 |
| 13 | 30 | Bias | 98.814 | 98.81 | -0.0033 |
| 14 | 30 | Bias | 98.829 | 98.815 | -0.0136 |
| 15 | 30 | Bias | 98.798 | 98.83 | 0.0318 |
| 16 | 30 | Unbiased | 98.831 | 98.799 | -0.0315 |
| 17 | 30 | Unbiased | 98.831 | 98.832 | 0.001 |
| 18 | 30 | Unbiased | 98.828 | 98.831 | 0.0028 |
| 19 | 30 | Unbiased | 98.805 | 98.827 | 0.0225 |
| 20 | 30 | Unbiased | 98.833 | 98.805 | -0.0286 |
| 21 | 50 | Bias | 98.829 | 98.832 | 0.0028 |
| 22 | 50 | Bias | 98.818 | 98.828 | 0.0096 |
| 23 | 50 | Bias | 98.829 | 98.816 | -0.013 |
| 24 | 50 | Bias | 98.82 | 98.829 | 0.0097 |
| 25 | 50 | Bias | 98.835 | 98.836 | 0.0013 |
| 26 | 50 | Unbiased | 98.823 | 98.82 | -0.0031 |
| 27 | 50 | Unbiased | 98.824 | 98.823 | -0.0012 |
| 28 | 50 | Unbiased | 98.82 | 98.819 | -0.001 |
| 29 | 50 | Unbiased | 98.81 | 98.809 | -0.0011 |
| 30 | 50 | Unbiased | 98.825 | 98.823 | -0.0029 |
| 31 | 0 | Correlation | 98.816 | 98.817 | 0.0004 |
| 32 | 0 | Correlation | 98.832 | 98.831 | -0.0003 |
| 33 | 0 | Correlation | 98.824 | 98.823 | -0.001 |
| 34 | 0 | Correlation | 98.833 | 98.814 | -0.0188 |

## Test Statistics (%)
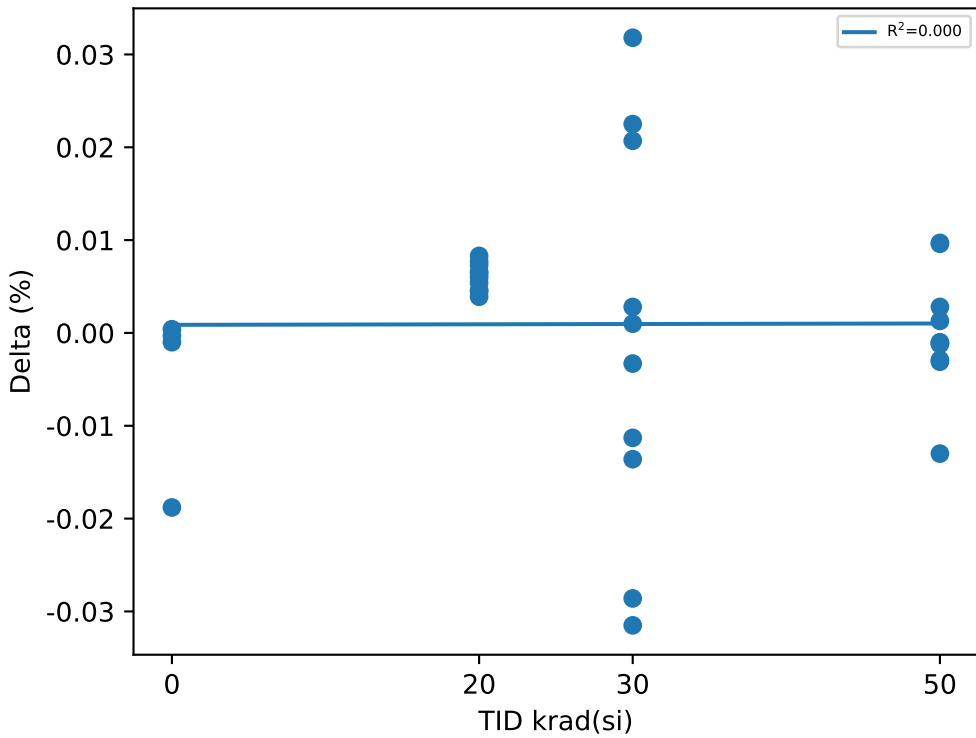
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 98.816 | 98.826 | 98.833 | 0.0078373 | 98.814 | 98.821 | 98.831 | 0.0076874 | -0.0188 | -0.004925 | 0.0004 | 0.0092676 |
| 20 | 98.8 | 98.818 | 98.832 | 0.011628 | 98.807 | 98.824 | 98.838 | 0.010732 | 0.0039 | 0.00607 | 0.0083 | 0.0014652 |
| 30 | 98.795 | 98.817 | 98.833 | 0.014895 | 98.797 | 98.816 | 98.832 | 0.013239 | -0.0315 | -0.00095 | 0.0318 | 0.02129 |
| 50 | 98.81 | 98.823 | 98.835 | 0.0068628 | 98.809 | 98.823 | 98.836 | 0.0079958 | -0.013 | 0.00011 | 0.0097 | 0.0065518 |

## Device Test: 15.97  VOH_PWRGD_10MA(_EVEL|VOH/PWRGD/7/3/0/0/10/@VOH_PWRGD_10MA )
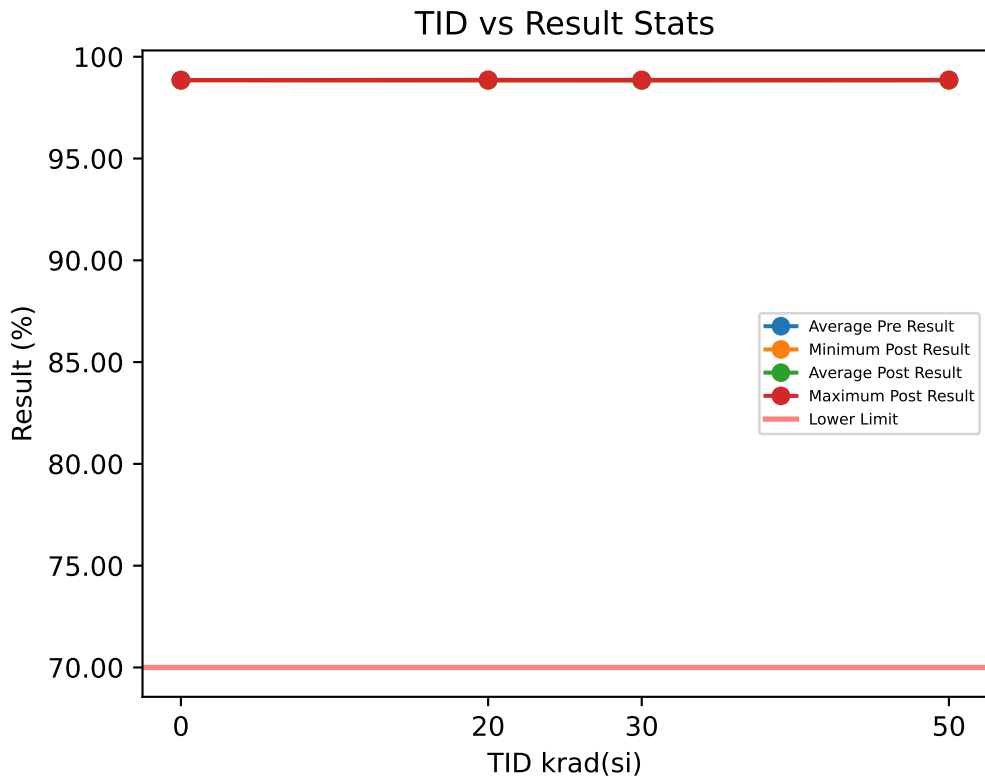
### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Lower Limit = 70.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 98.827 | 98.837 | 0.0095 |
| 2 | 20 | Bias | 98.829 | 98.838 | 0.0091 |
| 3 | 20 | Bias | 98.823 | 98.83 | 0.0067 |
| 4 | 20 | Bias | 98.857 | 98.866 | 0.0086 |
| 5 | 20 | Bias | 98.852 | 98.86 | 0.0079 |
| 6 | 20 | Unbiased | 98.847 | 98.855 | 0.008 |
| 7 | 20 | Unbiased | 98.846 | 98.851 | 0.0046 |
| 8 | 20 | Unbiased | 98.85 | 98.856 | 0.0057 |
| 9 | 20 | Unbiased | 98.85 | 98.854 | 0.0037 |
| 10 | 20 | Unbiased | 98.856 | 98.861 | 0.0051 |
| 11 | 30 | Bias | 98.823 | 98.845 | 0.0223 |
| 12 | 30 | Bias | 98.833 | 98.829 | -0.0039 |
| 13 | 30 | Bias | 98.841 | 98.837 | -0.0038 |
| 14 | 30 | Bias | 98.855 | 98.845 | -0.0101 |
| 15 | 30 | Bias | 98.825 | 98.859 | 0.0342 |
| 16 | 30 | Unbiased | 98.859 | 98.829 | -0.0298 |
| 17 | 30 | Unbiased | 98.855 | 98.862 | 0.0068 |
| 18 | 30 | Unbiased | 98.853 | 98.858 | 0.004 |
| 19 | 30 | Unbiased | 98.83 | 98.856 | 0.0257 |
| 20 | 30 | Unbiased | 98.856 | 98.832 | -0.0248 |
| 21 | 50 | Bias | 98.851 | 98.858 | 0.0075 |
| 22 | 50 | Bias | 98.844 | 98.852 | 0.0085 |
| 23 | 50 | Bias | 98.854 | 98.842 | -0.0123 |
| 24 | 50 | Bias | 98.848 | 98.857 | 0.0089 |
| 25 | 50 | Bias | 98.864 | 98.865 | 0.0011 |
| 26 | 50 | Unbiased | 98.852 | 98.847 | -0.0046 |
| 27 | 50 | Unbiased | 98.858 | 98.854 | -0.0037 |
| 28 | 50 | Unbiased | 98.845 | 98.842 | -0.0029 |
| 29 | 50 | Unbiased | 98.84 | 98.837 | -0.0033 |
| 30 | 50 | Unbiased | 98.852 | 98.848 | -0.0035 |
| 31 | 0 | Correlation | 98.845 | 98.844 | -0.0008 |
| 32 | 0 | Correlation | 98.857 | 98.856 | -0.0009 |
| 33 | 0 | Correlation | 98.854 | 98.851 | -0.0029 |
| 34 | 0 | Correlation | 98.858 | 98.84 | -0.0182 |

### Test Statistics (%)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 98.845 | 98.853 | 98.858 | 0.0061444 | 98.84 | 98.848 | 98.856 | 0.0070969 | -0.0182 | -0.0057 | -0.0008 | 0.0083893 |
| 20 | 98.823 | 98.844 | 98.857 | 0.012536 | 98.83 | 98.851 | 98.866 | 0.011859 | 0.0037 | 0.00689 | 0.0095 | 0.0020262 |
| 30 | 98.823 | 98.843 | 98.859 | 0.014384 | 98.829 | 98.845 | 98.862 | 0.012975 | -0.0298 | 0.00206 | 0.0342 | 0.021034 |
| 50 | 98.84 | 98.851 | 98.864 | 0.0068927 | 98.837 | 98.85 | 98.865 | 0.0085281 | -0.0123 | -0.00043 | 0.0089 | 0.0068699 |

# Device Test: 15.98  VOH_EN_10MA(_EVEL|VOH/EN1/7/14/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 98.92 | 98.927 | 0.0074 |
| 2 | 20 | Bias | 98.921 | 98.926 | 0.0058 |
| 3 | 20 | Bias | 98.919 | 98.923 | 0.0047 |
| 4 | 20 | Bias | 98.945 | 98.951 | 0.0051 |
| 5 | 20 | Bias | 98.936 | 98.941 | 0.0044 |
| 6 | 20 | Unbiased | 98.933 | 98.938 | 0.0052 |
| 7 | 20 | Unbiased | 98.933 | 98.936 | 0.0031 |
| 8 | 20 | Unbiased | 98.942 | 98.946 | 0.0039 |
| 9 | 20 | Unbiased | 98.937 | 98.94 | 0.0027 |
| 10 | 20 | Unbiased | 98.943 | 98.945 | 0.0014 |
| 11 | 30 | Bias | 98.916 | 98.94 | 0.0243 |
| 12 | 30 | Bias | 98.925 | 98.928 | 0.0034 |
| 13 | 30 | Bias | 98.922 | 98.937 | 0.0154 |
| 14 | 30 | Bias | 98.934 | 98.933 | -0.0013 |
| 15 | 30 | Bias | 98.913 | 98.946 | 0.0331 |
| 16 | 30 | Unbiased | 98.945 | 98.925 | -0.0196 |
| 17 | 30 | Unbiased | 98.939 | 98.955 | 0.0165 |
| 18 | 30 | Unbiased | 98.939 | 98.948 | 0.0094 |
| 19 | 30 | Unbiased | 98.919 | 98.948 | 0.0291 |
| 20 | 30 | Unbiased | 98.939 | 98.929 | -0.0107 |
| 21 | 50 | Bias | 98.938 | 98.949 | 0.0106 |
| 22 | 50 | Bias | 98.933 | 98.947 | 0.014 |
| 23 | 50 | Bias | 98.939 | 98.942 | 0.003 |
| 24 | 50 | Bias | 98.933 | 98.948 | 0.0149 |
| 25 | 50 | Bias | 98.945 | 98.944 | -0.0005 |
| 26 | 50 | Unbiased | 98.937 | 98.931 | -0.0059 |
| 27 | 50 | Unbiased | 98.941 | 98.939 | -0.0024 |
| 28 | 50 | Unbiased | 98.927 | 98.926 | -0.001 |
| 29 | 50 | Unbiased | 98.931 | 98.928 | -0.0031 |
| 30 | 50 | Unbiased | 98.937 | 98.933 | -0.0032 |
| 31 | 0 | Correlation | 98.929 | 98.927 | -0.0011 |
| 32 | 0 | Correlation | 98.939 | 98.937 | -0.0016 |
| 33 | 0 | Correlation | 98.938 | 98.937 | -0.0015 |
| 34 | 0 | Correlation | 98.948 | 98.928 | -0.0208 |

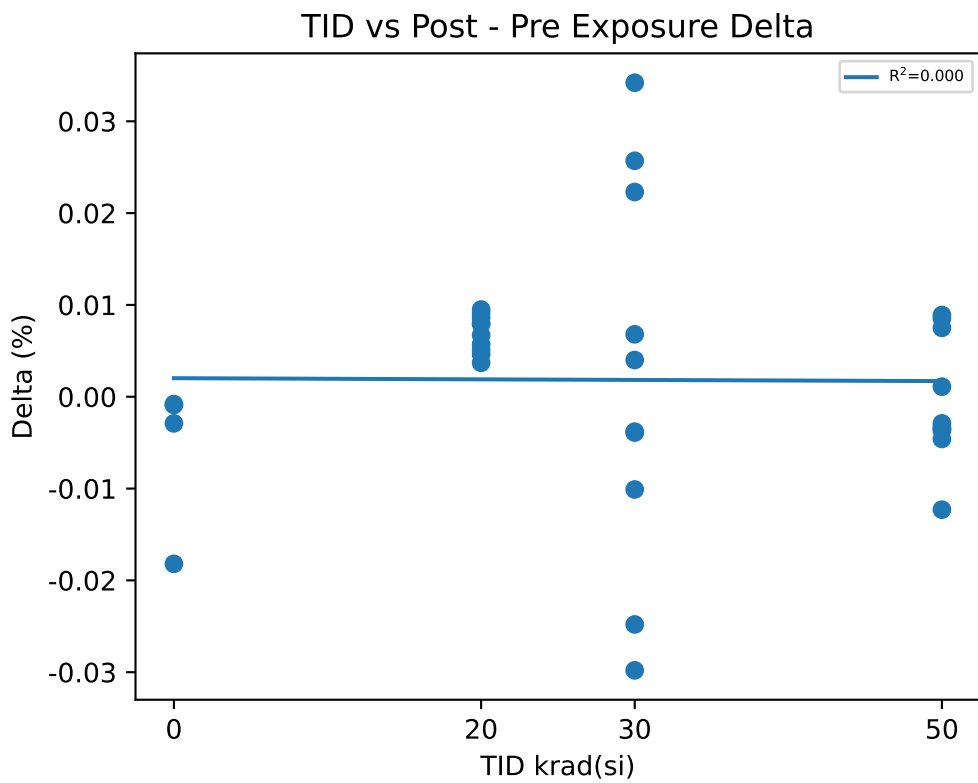## Test Statistics (%)
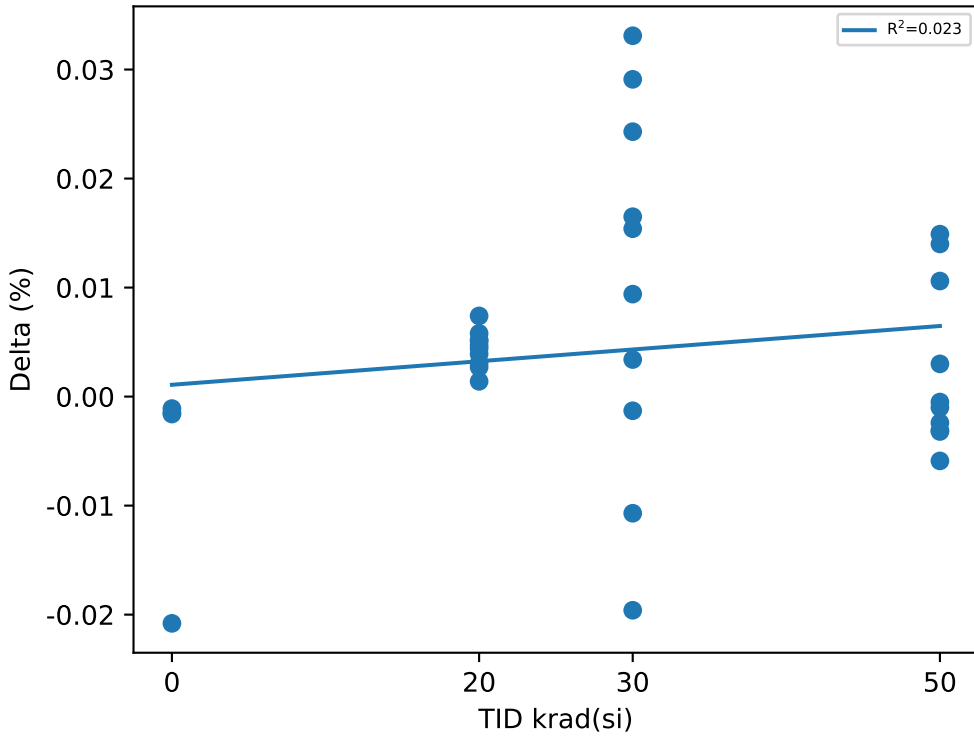
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 98.929 | 98.939 | 98.948 | 0.0081258 | 98.927 | 98.932 | 98.937 | 0.0054002 | -0.0208 | -0.00625 | -0.0011 | 0.0097024 |
| 20 | 98.919 | 98.933 | 98.945 | 0.010059 | 98.923 | 98.937 | 98.951 | 0.0091064 | 0.0014 | 0.00437 | 0.0074 | 0.0016997 |
| 30 | 98.913 | 98.929 | 98.945 | 0.011416 | 98.925 | 98.939 | 98.955 | 0.01032 | -0.0196 | 0.00996 | 0.0331 | 0.017161 |
| 50 | 98.927 | 98.936 | 98.945 | 0.0049925 | 98.926 | 98.939 | 98.949 | 0.0084642 | -0.0059 | 0.00264 | 0.0149 | 0.0076836 |

# Device Test: 15.99  VOH_EN_10MA(_EVEL|VOH/EN2/7/14/0/0/10/@VOH_EN_10MA )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 70.0 (%))

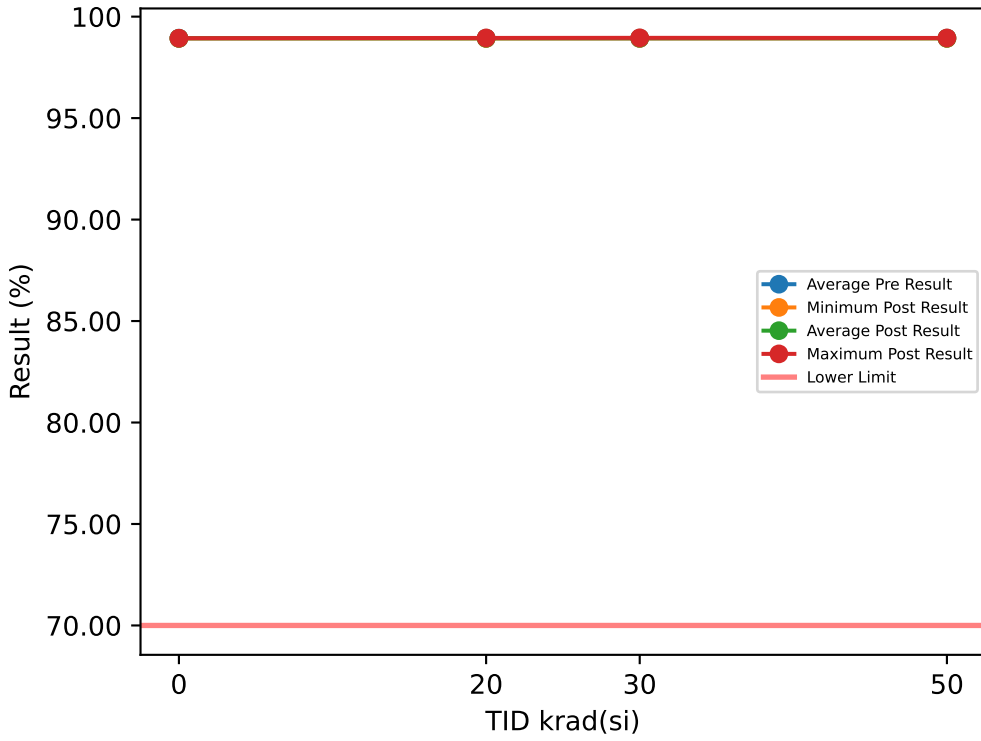| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 98.941 | 98.948 | 0.0069 |
| 2 | 20 | Bias | 98.943 | 98.95 | 0.0071 |
| 3 | 20 | Bias | 98.934 | 98.938 | 0.0034 |
| 4 | 20 | Bias | 98.965 | 98.97 | 0.0052 |
| 5 | 20 | Bias | 98.951 | 98.957 | 0.0052 |
| 6 | 20 | Unbiased | 98.947 | 98.953 | 0.0056 |
| 7 | 20 | Unbiased | 98.951 | 98.954 | 0.003 |
| 8 | 20 | Unbiased | 98.956 | 98.96 | 0.0042 |
| 9 | 20 | Unbiased | 98.955 | 98.959 | 0.0043 |
| 10 | 20 | Unbiased | 98.963 | 98.966 | 0.0025 |
| 11 | 30 | Bias | 98.931 | 98.954 | 0.0237 |
| 12 | 30 | Bias | 98.94 | 98.941 | 0.0012 |
| 13 | 30 | Bias | 98.942 | 98.95 | 0.0083 |
| 14 | 30 | Bias | 98.956 | 98.952 | -0.0036 |
| 15 | 30 | Bias | 98.931 | 98.966 | 0.0359 |
| 16 | 30 | Unbiased | 98.958 | 98.942 | -0.0165 |
| 17 | 30 | Unbiased | 98.959 | 98.968 | 0.0095 |
| 18 | 30 | Unbiased | 98.953 | 98.968 | 0.0142 |
| 19 | 30 | Unbiased | 98.939 | 98.962 | 0.0232 |
| 20 | 30 | Unbiased | 98.957 | 98.947 | -0.0103 |
| 21 | 50 | Bias | 98.957 | 98.965 | 0.0078 |
| 22 | 50 | Bias | 98.948 | 98.964 | 0.0164 |
| 23 | 50 | Bias | 98.959 | 98.955 | -0.0037 |
| 24 | 50 | Bias | 98.953 | 98.967 | 0.0144 |
| 25 | 50 | Bias | 98.966 | 98.965 | -0.0013 |
| 26 | 50 | Unbiased | 98.953 | 98.949 | -0.0046 |
| 27 | 50 | Unbiased | 98.96 | 98.957 | -0.003 |
| 28 | 50 | Unbiased | 98.948 | 98.947 | -0.0015 |
| 29 | 50 | Unbiased | 98.943 | 98.941 | -0.0022 |
| 30 | 50 | Unbiased | 98.955 | 98.952 | -0.0029 |
| 31 | 0 | Correlation | 98.948 | 98.947 | -0.0008 |
| 32 | 0 | Correlation | 98.958 | 98.957 | -0.0014 |
| 33 | 0 | Correlation | 98.952 | 98.95 | -0.0019 |
| 34 | 0 | Correlation | 98.964 | 98.943 | -0.0205 |

## Test Statistics (%)
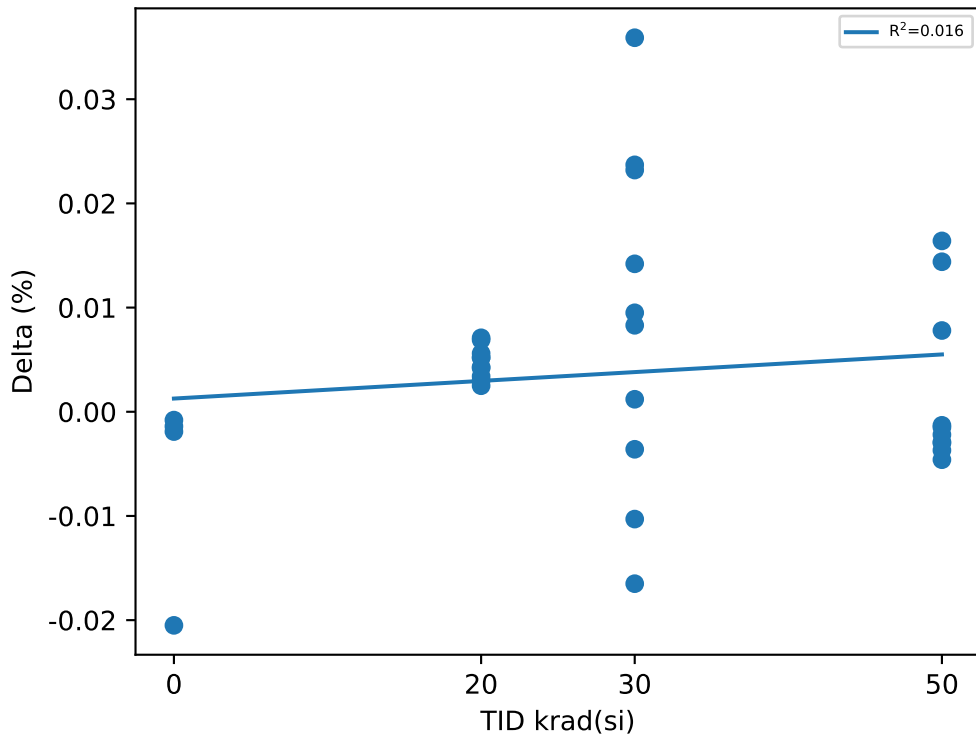
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 98.948 | 98.955 | 98.964 | 0.0071276 | 98.943 | 98.949 | 98.957 | 0.0058583 | -0.0205 | -0.00615 | -0.0008 | 0.0095772 |
| 20 | 98.934 | 98.951 | 98.965 | 0.0097256 | 98.938 | 98.955 | 98.97 | 0.0093266 | 0.0025 | 0.00474 | 0.0071 | 0.0015536 |
| 30 | 98.931 | 98.946 | 98.959 | 0.011341 | 98.941 | 98.955 | 98.968 | 0.010418 | -0.0165 | 0.00856 | 0.0359 | 0.016362 |
| 50 | 98.943 | 98.954 | 98.966 | 0.0068873 | 98.941 | 98.956 | 98.967 | 0.0091136 | -0.0046 | 0.00194 | 0.0164 | 0.0078921 |

# Device Test: 16.1   EN_SLEW_RATE_RISE(_LEVEL|RISE/EN1/1.6/3/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

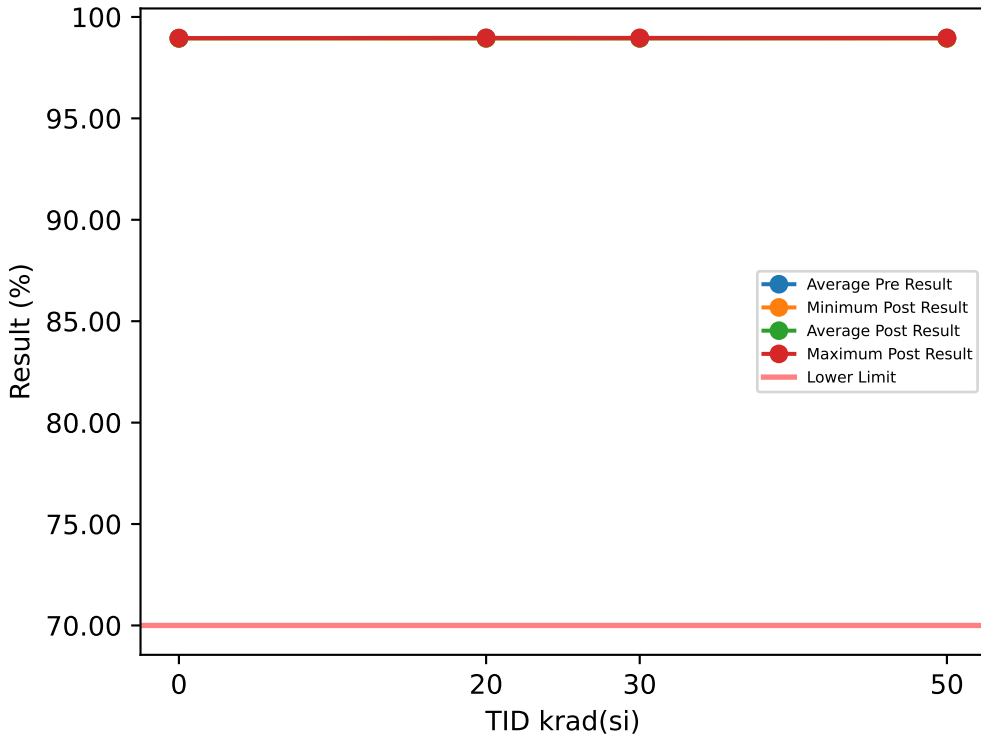| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 38.602 | 36.828 | -1.774 |
| 2 | 20 | Bias | 37.534 | 37.706 | 0.1721 |
| 3 | 20 | Bias | 37.832 | 36.813 | -1.0187 |
| 4 | 20 | Bias | 38.334 | 39.437 | 1.1025 |
| 5 | 20 | Bias | 40.282 | 37.566 | -2.7162 |
| 6 | 20 | Unbiased | 38.511 | 38.559 | 0.0487 |
| 7 | 20 | Unbiased | 39.161 | 38.188 | -0.9733 |
| 8 | 20 | Unbiased | 38.554 | 38.327 | -0.227 |
| 9 | 20 | Unbiased | 39.423 | 38.791 | -0.6322 |
| 10 | 20 | Unbiased | 39.238 | 38.162 | -1.0754 |
| 11 | 30 | Bias | 37.872 | 38.991 | 1.1183 |
| 12 | 30 | Bias | 38.897 | 37.903 | -0.9939 |
| 13 | 30 | Bias | 39.272 | 38.026 | -1.2457 |
| 14 | 30 | Bias | 38.603 | 37.254 | -1.3484 |
| 15 | 30 | Bias | 38.752 | 38.989 | 0.2373 |
| 16 | 30 | Unbiased | 38.934 | 37.937 | -0.9979 |
| 17 | 30 | Unbiased | 39.878 | 38.912 | -0.9661 |
| 18 | 30 | Unbiased | 38.491 | 38.984 | 0.4924 |
| 19 | 30 | Unbiased | 39.675 | 39.168 | -0.5077 |
| 20 | 30 | Unbiased | 40.411 | 37.454 | -2.9577 |
| 21 | 50 | Bias | 39.8 | 38.677 | -1.1231 |
| 22 | 50 | Bias | 40.494 | 38.346 | -2.1479 |
| 23 | 50 | Bias | 39.422 | 38.198 | -1.2244 |
| 24 | 50 | Bias | 38.727 | 37.965 | -0.7618 |
| 25 | 50 | Bias | 40.667 | 38.774 | -1.8926 |
| 26 | 50 | Unbiased | 38.762 | 36.409 | -2.3528 |
| 27 | 50 | Unbiased | 38.938 | 37.059 | -1.8787 |
| 28 | 50 | Unbiased | 39.242 | 36.094 | -3.1484 |
| 29 | 50 | Unbiased | 40.361 | 38.433 | -1.9279 |
| 30 | 50 | Unbiased | 39.586 | 37.513 | -2.0729 |
| 31 | 0 | Correlation | 37.618 | 37.683 | 0.0651 |
| 32 | 0 | Correlation | 39.757 | 37.993 | -1.7637 |
| 33 | 0 | Correlation | 38.635 | 38.805 | 0.1698 |
| 34 | 0 | Correlation | 39.391 | 38.981 | -0.4102 |

## Test Statistics (V/uSec)
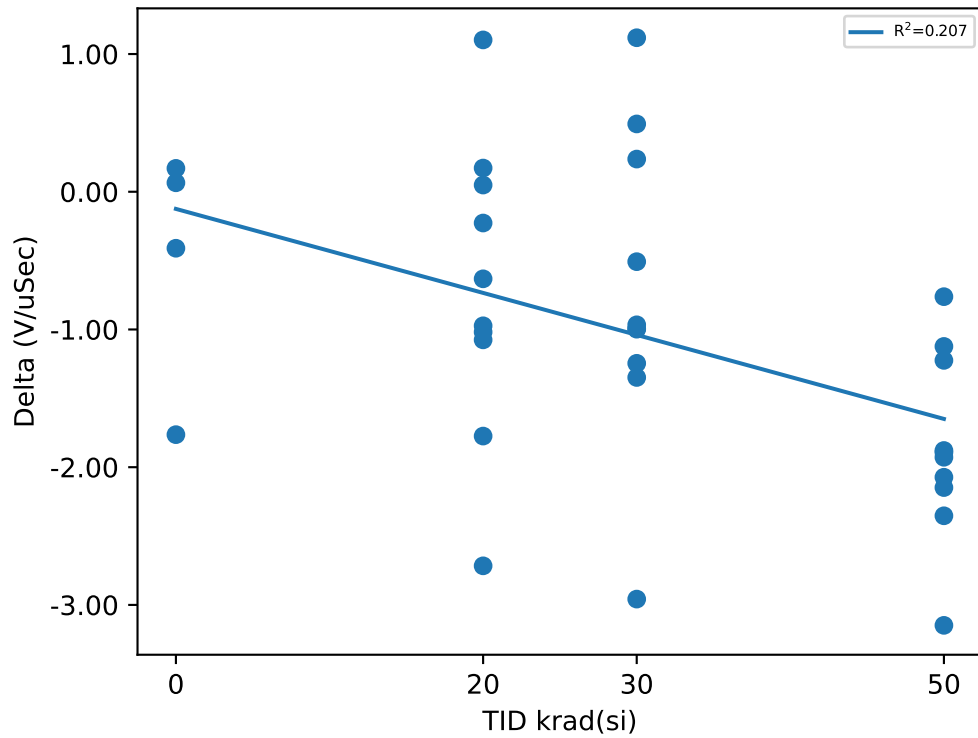
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 37.618 | 38.85 | 39.757 | 0.94509 | 37.683 | 38.366 | 38.981 | 0.62611 | -1.7637 | -0.48475 | 0.1698 | 0.8892 |
| 20 | 37.534 | 38.747 | 40.282 | 0.80414 | 36.813 | 38.038 | 39.437 | 0.83092 | -2.7162 | -0.70935 | 1.1025 | 1.0715 |
| 30 | 37.872 | 39.079 | 40.411 | 0.74511 | 37.254 | 38.362 | 39.168 | 0.72135 | -2.9577 | -0.71694 | 1.1183 | 1.1403 |
| 50 | 38.727 | 39.6 | 40.667 | 0.71643 | 36.094 | 37.747 | 38.774 | 0.94578 | -3.1484 | -1.853 | -0.7618 | 0.68229 |

# Device Test: 16.10  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN4/1.6/3/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

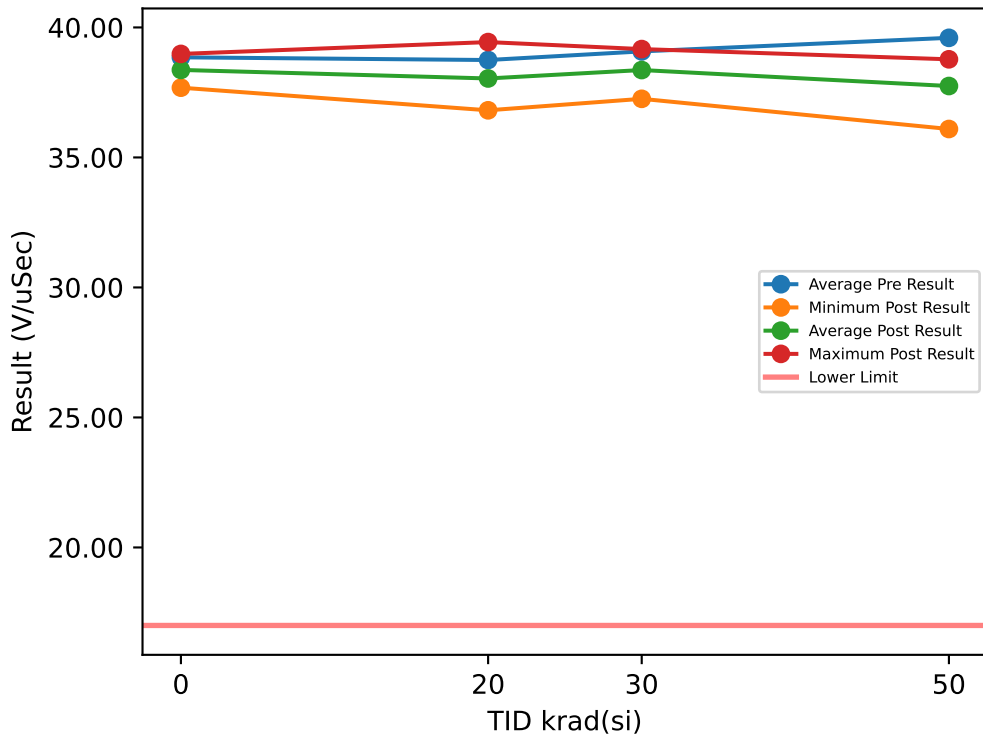| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 134.33 | 137.18 | 2.853 |
| 2 | 20 | Bias | 132.67 | 137.46 | 4.7835 |
| 3 | 20 | Bias | 132.56 | 134 | 1.4339 |
| 4 | 20 | Bias | 134.74 | 139.92 | 5.1721 |
| 5 | 20 | Bias | 134.98 | 134.93 | -0.0502 |
| 6 | 20 | Unbiased | 135.32 | 135.08 | -0.2482 |
| 7 | 20 | Unbiased | 132.25 | 133.01 | 0.7623 |
| 8 | 20 | Unbiased | 134.53 | 134.41 | -0.1168 |
| 9 | 20 | Unbiased | 136.05 | 138.26 | 2.207 |
| 10 | 20 | Unbiased | 136.85 | 137.13 | 0.2753 |
| 11 | 30 | Bias | 132.14 | 138.99 | 6.8544 |
| 12 | 30 | Bias | 128.47 | 141.45 | 12.979 |
| 13 | 30 | Bias | 133.75 | 139.43 | 5.6775 |
| 14 | 30 | Bias | 133.3 | 142.53 | 9.2322 |
| 15 | 30 | Bias | 130.55 | 140.93 | 10.376 |
| 16 | 30 | Unbiased | 139.15 | 138.7 | -0.4562 |
| 17 | 30 | Unbiased | 135.86 | 143.97 | 8.1191 |
| 18 | 30 | Unbiased | 134.02 | 142.66 | 8.6305 |
| 19 | 30 | Unbiased | 133.44 | 138.94 | 5.4993 |
| 20 | 30 | Unbiased | 132.02 | 140.53 | 8.5102 |
| 21 | 50 | Bias | 132.97 | 139.9 | 6.9338 |
| 22 | 50 | Bias | 133.51 | 141.04 | 7.5303 |
| 23 | 50 | Bias | 136 | 139.39 | 3.3965 |
| 24 | 50 | Bias | 136.19 | 146.28 | 10.084 |
| 25 | 50 | Bias | 133.7 | 139.05 | 5.3419 |
| 26 | 50 | Unbiased | 132.78 | 134.86 | 2.0785 |
| 27 | 50 | Unbiased | 135.55 | 138.68 | 3.1248 |
| 28 | 50 | Unbiased | 133.4 | 136.32 | 2.9211 |
| 29 | 50 | Unbiased | 130.89 | 133.99 | 3.0966 |
| 30 | 50 | Unbiased | 134.64 | 138.66 | 4.0204 |
| 31 | 0 | Correlation | 135.52 | 133.68 | -1.8422 |
| 32 | 0 | Correlation | 131.13 | 134.76 | 3.6252 |
| 33 | 0 | Correlation | 135.37 | 134.28 | -1.0915 |
| 34 | 0 | Correlation | 133.14 | 131.19 | -1.951 |

## Test Statistics (V/uSec)
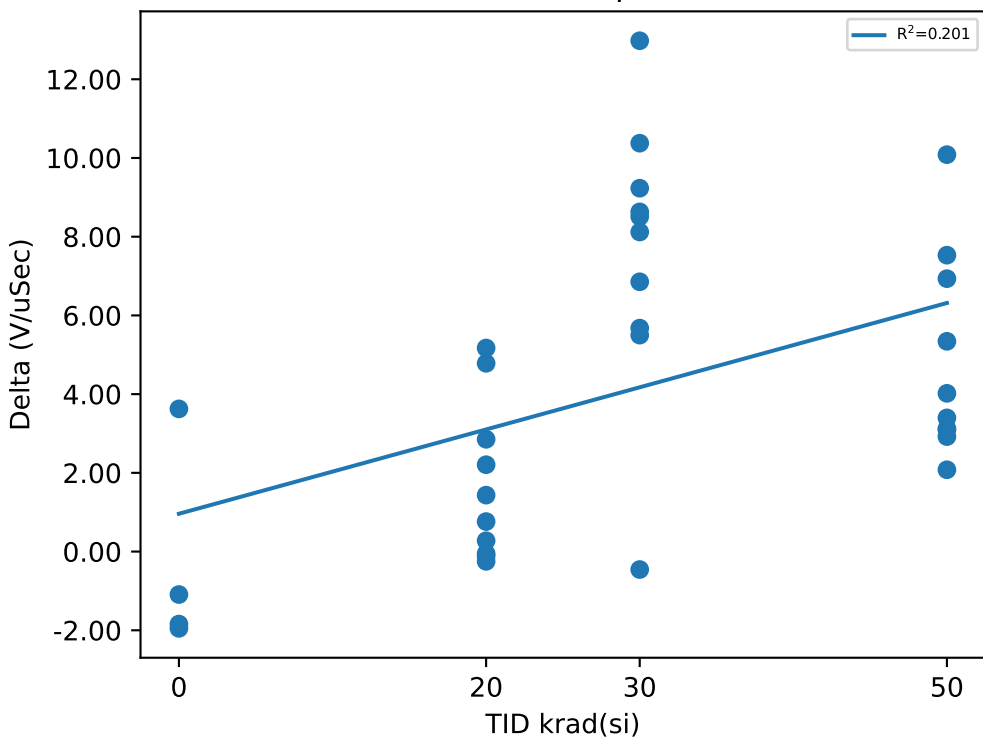
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 131.13 | 133.79 | 135.52 | 2.0795 | 131.19 | 133.48 | 134.76 | 1.5889 | -1.951 | -0.31487 | 3.6252 | 2.6544 |
| 20 | 132.25 | 134.43 | 136.85 | 1.5304 | 133.01 | 136.14 | 139.92 | 2.1746 | -0.2482 | 1.7072 | 5.1721 | 2.008 |
| 30 | 128.47 | 133.27 | 139.15 | 2.8947 | 138.7 | 140.81 | 143.97 | 1.8277 | -0.4562 | 7.5422 | 12.979 | 3.5745 |
| 50 | 130.89 | 133.96 | 136.19 | 1.6489 | 133.99 | 138.82 | 146.28 | 3.4545 | 2.0785 | 4.8528 | 10.084 | 2.5695 |
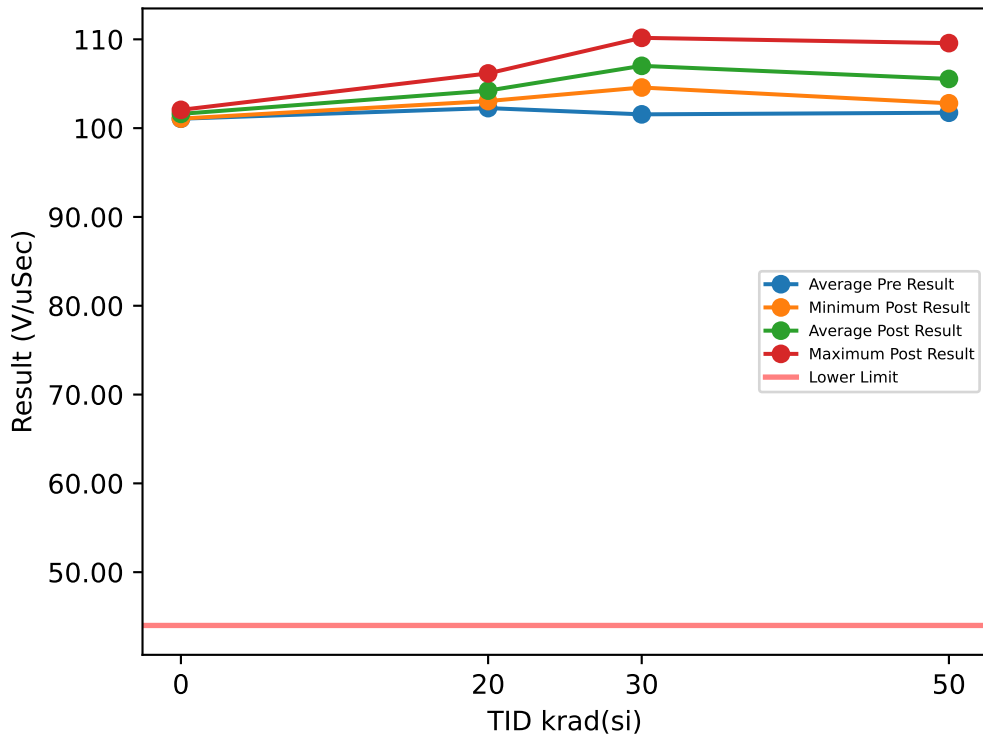
# Device Test: 16.11  PWRGD_SLEW_RATE_FALL(_LEVEL|FALL/PWRGD/1.6/3/0/0/0/@PWRGD_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

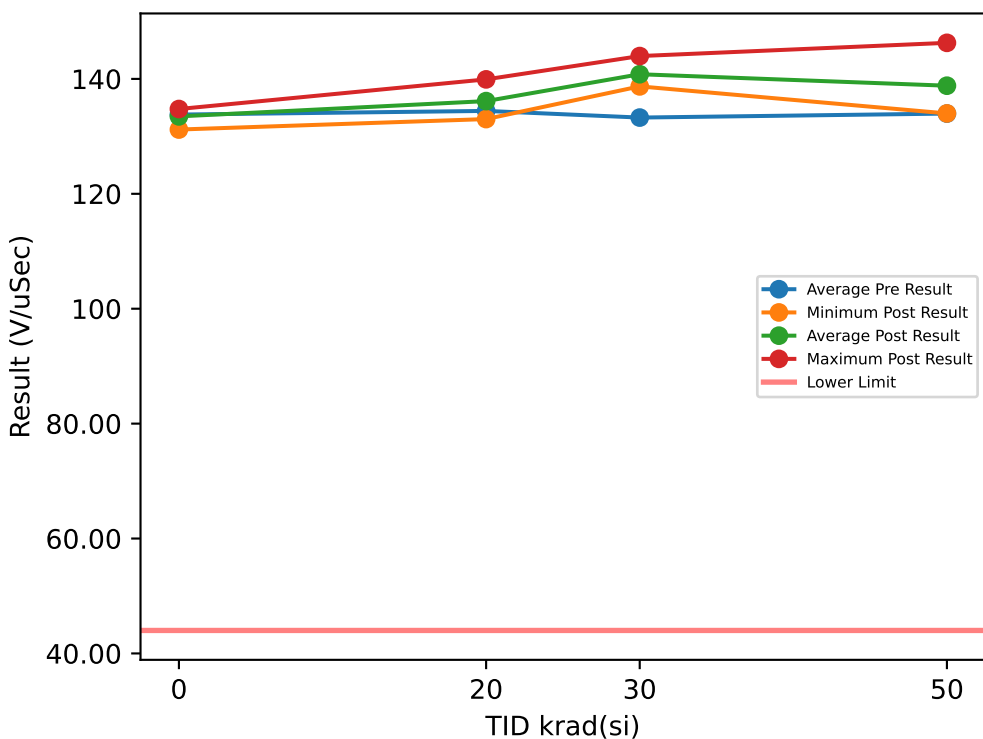| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|-----------|-------------|--------|
| 1 | 20 | Bias | 101.64 | 103.98 | 2.3411 |
| 2 | 20 | Bias | 102.2 | 104.22 | 2.0205 |
| 3 | 20 | Bias | 101.07 | 103.05 | 1.9811 |
| 4 | 20 | Bias | 103.7 | 106.16 | 2.4639 |
| 5 | 20 | Bias | 101.72 | 104.19 | 2.4657 |
| 6 | 20 | Unbiased | 101.77 | 103.32 | 1.5514 |
| 7 | 20 | Unbiased | 102.42 | 103.87 | 1.4486 |
| 8 | 20 | Unbiased | 101.92 | 103.35 | 1.4258 |
| 9 | 20 | Unbiased | 102.88 | 105.11 | 2.232 |
| 10 | 20 | Unbiased | 103.25 | 105.03 | 1.7806 |
| 11 | 30 | Bias | 101.64 | 106.38 | 4.7365 |
| 12 | 30 | Bias | 99.606 | 107.92 | 8.3157 |
| 13 | 30 | Bias | 100.39 | 104.58 | 4.1846 |
| 14 | 30 | Bias | 102.16 | 106.14 | 3.9841 |
| 15 | 30 | Bias | 100.01 | 107.64 | 7.6381 |
| 16 | 30 | Unbiased | 104.14 | 106.16 | 2.0188 |
| 17 | 30 | Unbiased | 103.93 | 110.17 | 6.2385 |
| 18 | 30 | Unbiased | 101.39 | 108.9 | 7.5125 |
| 19 | 30 | Unbiased | 101.32 | 105 | 3.6815 |
| 20 | 30 | Unbiased | 100.94 | 107.27 | 6.3236 |
| 21 | 50 | Bias | 101.01 | 107.35 | 6.3395 |
| 22 | 50 | Bias | 101.74 | 108.01 | 6.2787 |
| 23 | 50 | Bias | 102.99 | 107.44 | 4.4495 |
| 24 | 50 | Bias | 102.12 | 109.57 | 7.4564 |
| 25 | 50 | Bias | 102.56 | 105.22 | 2.6637 |
| 26 | 50 | Unbiased | 102.48 | 104.13 | 1.6493 |
| 27 | 50 | Unbiased | 101.32 | 103.87 | 2.5448 |
| 28 | 50 | Unbiased | 101.43 | 103.26 | 1.8222 |
| 29 | 50 | Unbiased | 100.28 | 102.8 | 2.5199 |
| 30 | 50 | Unbiased | 101.43 | 103.76 | 2.3312 |
| 31 | 0 | Correlation | 100.94 | 101.07 | 0.131 |
| 32 | 0 | Correlation | 101.43 | 102.04 | 0.6166 |
| 33 | 0 | Correlation | 102.29 | 102.06 | -0.228 |
| 34 | 0 | Correlation | 99.585 | 101.25 | 1.6684 |

## Test Statistics (V/uSec)
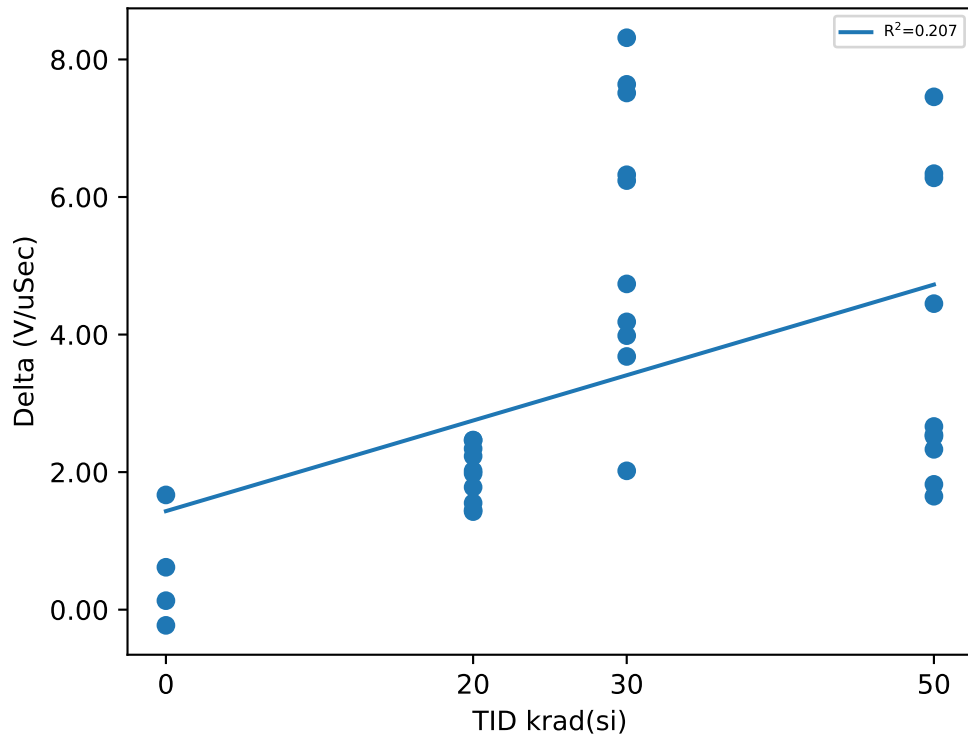
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 99.585 | 101.06 | 102.29 | 1.1296 | 101.07 | 101.61 | 102.06 | 0.5181 | -0.228 | 0.547 | 1.6684 | 0.82383 |
| 20 | 101.07 | 102.26 | 103.7 | 0.80961 | 103.05 | 104.23 | 106.16 | 0.96156 | 1.4258 | 1.9711 | 2.4657 | 0.40521 |
| 30 | 99.606 | 101.55 | 104.14 | 1.5176 | 104.58 | 107.02 | 110.17 | 1.7219 | 2.0188 | 5.4634 | 8.3157 | 2.0493 |
| 50 | 100.28 | 101.74 | 102.99 | 0.81414 | 102.8 | 105.54 | 109.57 | 2.3578 | 1.6493 | 3.8055 | 7.4564 | 2.1495 |

## TID vs Result Stats
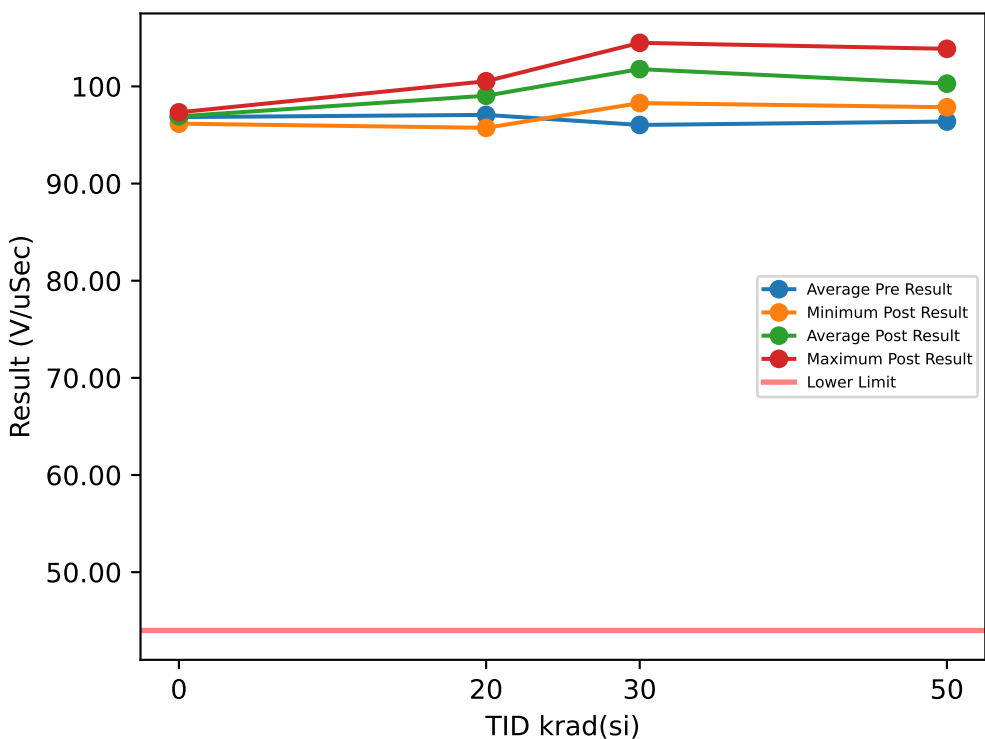
## TID vs Post - Pre Exposure Delta

$R^2 = 0.227$

## Test Results (Lower Limit = 44.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 97.407 | 99.695 | 2.2877 |
| 2 | 20 | Bias | 97.161 | 99.33 | 2.1691 |
| 3 | 20 | Bias | 94.081 | 95.735 | 1.654 |
| 4 | 20 | Bias | 97.889 | 100.53 | 2.6428 |
| 5 | 20 | Bias | 96.241 | 99.356 | 3.1145 |
| 6 | 20 | Unbiased | 97.545 | 98.762 | 1.2165 |
| 7 | 20 | Unbiased | 98.171 | 100.08 | 1.9075 |
| 8 | 20 | Unbiased | 96.609 | 99.415 | 2.8063 |
| 9 | 20 | Unbiased | 97.96 | 98.745 | 0.7853 |
| 10 | 20 | Unbiased | 97.619 | 98.776 | 1.1576 |
| 11 | 30 | Bias | 95.926 | 101.52 | 5.5938 |
| 12 | 30 | Bias | 95.024 | 103.18 | 8.1565 |
| 13 | 30 | Bias | 94.928 | 99.588 | 4.6595 |
| 14 | 30 | Bias | 96.528 | 100.33 | 3.7975 |
| 15 | 30 | Bias | 96.137 | 102.47 | 6.3341 |
| 16 | 30 | Unbiased | 96.927 | 102.1 | 5.1773 |
| 17 | 30 | Unbiased | 97.057 | 104.49 | 7.428 |
| 18 | 30 | Unbiased | 95.53 | 103.67 | 8.1429 |
| 19 | 30 | Unbiased | 97.257 | 98.285 | 1.0281 |
| 20 | 30 | Unbiased | 95.011 | 102.16 | 7.1536 |
| 21 | 50 | Bias | 95.414 | 100.52 | 5.1053 |
| 22 | 50 | Bias | 96.657 | 101.57 | 4.9145 |
| 23 | 50 | Bias | 96.72 | 103.02 | 6.2971 |
| 24 | 50 | Bias | 96.844 | 103.87 | 7.0267 |
| 25 | 50 | Bias | 97.025 | 100.89 | 3.8603 |
| 26 | 50 | Unbiased | 95.128 | 98.504 | 3.3761 |
| 27 | 50 | Unbiased | 95.374 | 98.644 | 3.2706 |
| 28 | 50 | Unbiased | 97.486 | 98.938 | 1.4515 |
| 29 | 50 | Unbiased | 96.152 | 97.858 | 1.7056 |
| 30 | 50 | Unbiased | 97.046 | 99.064 | 2.0182 |
| 31 | 0 | Correlation | 97.031 | 97.233 | 0.2018 |
| 32 | 0 | Correlation | 97.234 | 96.168 | -1.0664 |
| 33 | 0 | Correlation | 98.375 | 97.331 | -1.0444 |
| 34 | 0 | Correlation | 94.725 | 96.949 | 2.2233 |

## Test Statistics (V/uSec)
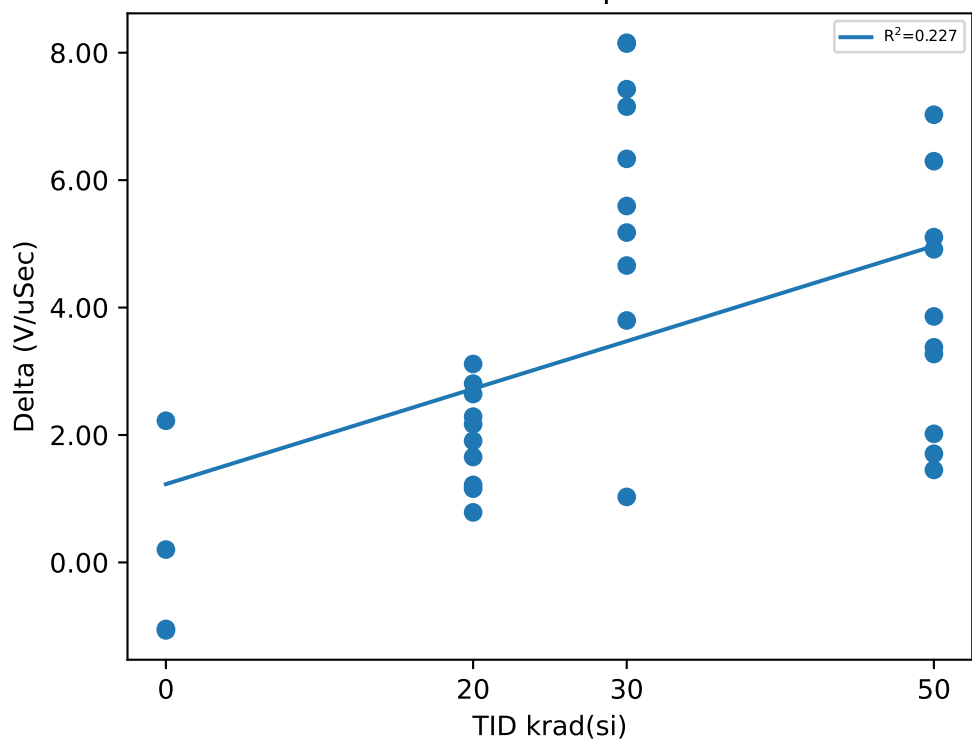
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 94.725 | 96.841 | 98.375 | 1.5298 | 96.168 | 96.92 | 97.331 | 0.52724 | -1.0664 | 0.078575 | 2.2233 | 1.5478 |
| 20 | 94.081 | 97.068 | 98.171 | 1.2092 | 95.735 | 99.042 | 100.53 | 1.3002 | 0.7853 | 1.9741 | 3.1145 | 0.77009 |
| 30 | 94.928 | 96.032 | 97.257 | 0.89126 | 98.285 | 101.78 | 104.49 | 1.9091 | 1.0281 | 5.7471 | 8.1565 | 2.2185 |
| 50 | 95.128 | 96.385 | 97.486 | 0.82023 | 97.858 | 100.29 | 103.87 | 2.0398 | 1.4515 | 3.9026 | 7.0267 | 1.9157 |

# Device Test: 16.13  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN1/1.6/14/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 37.964 | 38.194 | 0.2292 |
| 2 | 20 | Bias | 37.648 | 38.271 | 0.6225 |
| 3 | 20 | Bias | 38.427 | 37.462 | -0.9648 |
| 4 | 20 | Bias | 38.103 | 38.161 | 0.0577 |
| 5 | 20 | Bias | 38.649 | 37.972 | -0.6774 |
| 6 | 20 | Unbiased | 38.05 | 38.264 | 0.2143 |
| 7 | 20 | Unbiased | 39.31 | 38.6 | -0.7102 |
| 8 | 20 | Unbiased | 40.044 | 39.901 | -0.1424 |
| 9 | 20 | Unbiased | 37.907 | 39.23 | 1.3234 |
| 10 | 20 | Unbiased | 38.858 | 38.514 | -0.3446 |
| 11 | 30 | Bias | 38.667 | 37.128 | -1.5389 |
| 12 | 30 | Bias | 38.015 | 37.866 | -0.1488 |
| 13 | 30 | Bias | 39.932 | 38.603 | -1.3291 |
| 14 | 30 | Bias | 38.616 | 37.849 | -0.7669 |
| 15 | 30 | Bias | 38.237 | 37.787 | -0.4501 |
| 16 | 30 | Unbiased | 38.686 | 37.678 | -1.0082 |
| 17 | 30 | Unbiased | 39.623 | 39.602 | -0.0208 |
| 18 | 30 | Unbiased | 37.893 | 38.621 | 0.7278 |
| 19 | 30 | Unbiased | 38.125 | 39.34 | 1.2148 |
| 20 | 30 | Unbiased | 38.155 | 37.598 | -0.557 |
| 21 | 50 | Bias | 39.196 | 37.728 | -1.4681 |
| 22 | 50 | Bias | 39.085 | 37.621 | -1.4631 |
| 23 | 50 | Bias | 40.047 | 38.899 | -1.1485 |
| 24 | 50 | Bias | 40.025 | 38.996 | -1.0291 |
| 25 | 50 | Bias | 38.601 | 39.281 | 0.68 |
| 26 | 50 | Unbiased | 38.024 | 36.193 | -1.8309 |
| 27 | 50 | Unbiased | 39.783 | 37.287 | -2.4955 |
| 28 | 50 | Unbiased | 38.576 | 36.265 | -2.3111 |
| 29 | 50 | Unbiased | 39.15 | 37.686 | -1.4643 |
| 30 | 50 | Unbiased | 38.819 | 37.606 | -1.2127 |
| 31 | 0 | Correlation | 38.431 | 38.539 | 0.1071 |
| 32 | 0 | Correlation | 38.486 | 38.133 | -0.3531 |
| 33 | 0 | Correlation | 40.112 | 40.434 | 0.3222 |
| 34 | 0 | Correlation | 39.016 | 39.309 | 0.293 |

## Test Statistics (V/uSec)
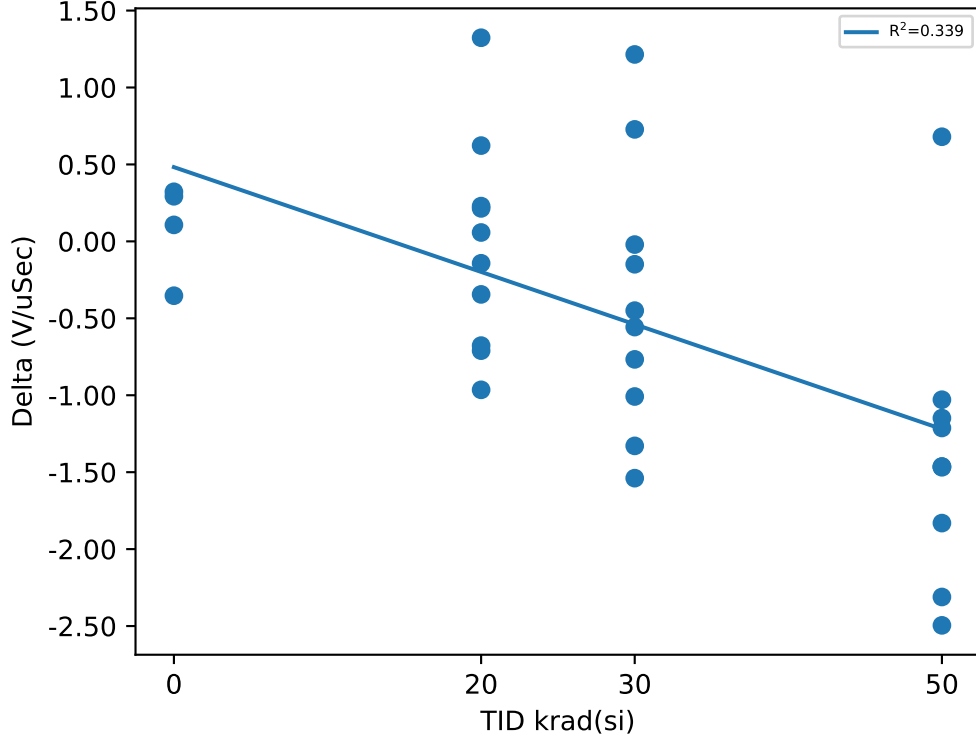
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 38.431 | 39.011 | 40.112 | 0.77979 | 38.133 | 39.104 | 40.434 | 1.0124 | -0.3531 | 0.0923 | 0.3222 | 0.31184 |
| 20 | 37.648 | 38.496 | 40.044 | 0.73933 | 37.462 | 38.457 | 39.901 | 0.68001 | -0.9648 | -0.03923 | 1.3234 | 0.68786 |
| 30 | 37.893 | 38.595 | 39.932 | 0.68574 | 37.128 | 38.207 | 39.602 | 0.80241 | -1.5389 | -0.38772 | 1.2148 | 0.86775 |
| 50 | 38.024 | 39.13 | 40.047 | 0.66517 | 36.193 | 37.756 | 39.281 | 1.0594 | -2.4955 | -1.3743 | 0.68 | 0.86823 |

# Device Test: 16.14  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN2/1.6/14/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

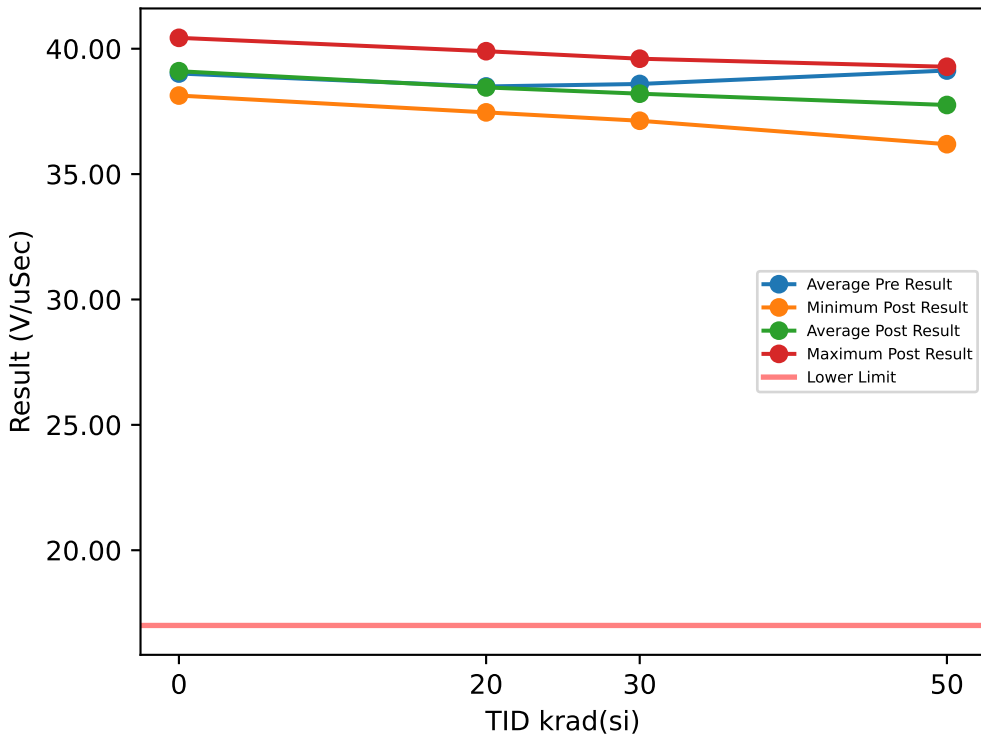| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 39.295 | 39.188 | -0.1075 |
| 2 | 20 | Bias | 37.538 | 37.927 | 0.3885 |
| 3 | 20 | Bias | 38.506 | 36.983 | -1.5229 |
| 4 | 20 | Bias | 41.129 | 39.398 | -1.7313 |
| 5 | 20 | Bias | 38.611 | 37.884 | -0.7273 |
| 6 | 20 | Unbiased | 38.947 | 37.831 | -1.1166 |
| 7 | 20 | Unbiased | 38.646 | 37.769 | -0.8777 |
| 8 | 20 | Unbiased | 40.856 | 37.798 | -3.0577 |
| 9 | 20 | Unbiased | 38.264 | 38.335 | 0.0706 |
| 10 | 20 | Unbiased | 37.979 | 38.664 | 0.685 |
| 11 | 30 | Bias | 37.619 | 37.363 | -0.2561 |
| 12 | 30 | Bias | 38.07 | 38.575 | 0.5049 |
| 13 | 30 | Bias | 39.388 | 38.205 | -1.1833 |
| 14 | 30 | Bias | 39.148 | 36.714 | -2.4338 |
| 15 | 30 | Bias | 37.579 | 38.13 | 0.5512 |
| 16 | 30 | Unbiased | 38.739 | 38.039 | -0.7004 |
| 17 | 30 | Unbiased | 39.766 | 38.278 | -1.4877 |
| 18 | 30 | Unbiased | 39.392 | 38.916 | -0.4757 |
| 19 | 30 | Unbiased | 38.869 | 37.307 | -1.5616 |
| 20 | 30 | Unbiased | 39.715 | 38.191 | -1.5234 |
| 21 | 50 | Bias | 38.37 | 37.227 | -1.1425 |
| 22 | 50 | Bias | 38.668 | 39.231 | 0.5626 |
| 23 | 50 | Bias | 39.787 | 38.27 | -1.517 |
| 24 | 50 | Bias | 39.998 | 37.716 | -2.2819 |
| 25 | 50 | Bias | 39.57 | 38.042 | -1.5284 |
| 26 | 50 | Unbiased | 38.457 | 37.406 | -1.051 |
| 27 | 50 | Unbiased | 38.571 | 37.172 | -1.3988 |
| 28 | 50 | Unbiased | 37.594 | 36.173 | -1.4208 |
| 29 | 50 | Unbiased | 38.856 | 37.74 | -1.1159 |
| 30 | 50 | Unbiased | 39.617 | 37.078 | -2.5383 |
| 31 | 0 | Correlation | 39.62 | 37.526 | -2.0943 |
| 32 | 0 | Correlation | 39.701 | 39.641 | -0.0606 |
| 33 | 0 | Correlation | 39.361 | 38.086 | -1.2752 |
| 34 | 0 | Correlation | 39.692 | 40.044 | 0.3524 |

## Test Statistics (V/uSec)
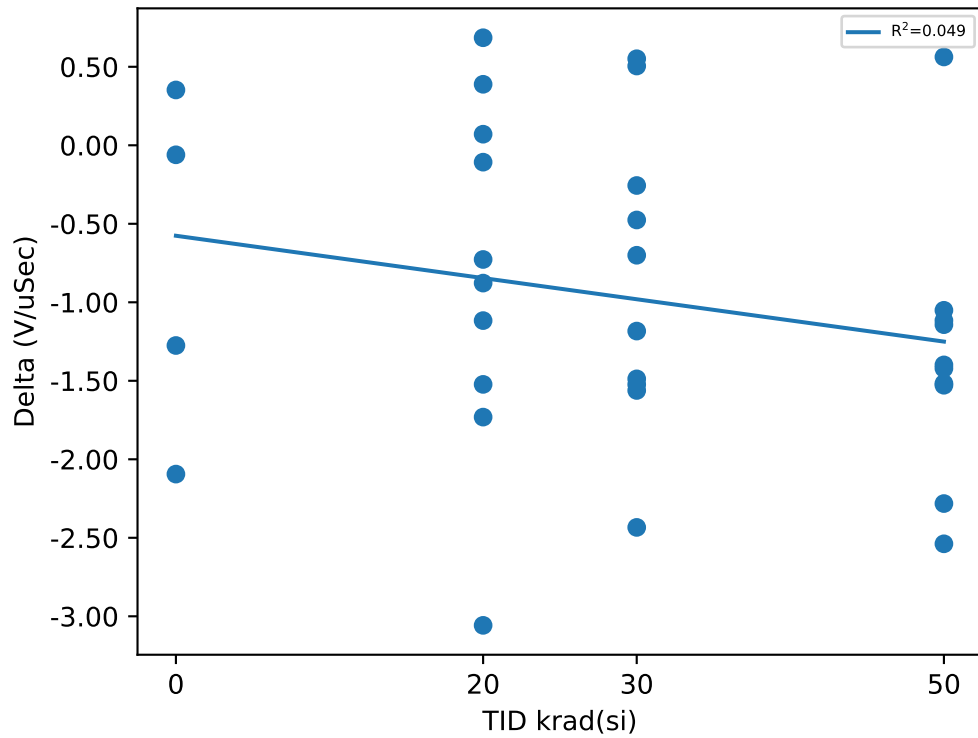
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 39.361 | 39.594 | 39.701 | 0.15924 | 37.526 | 38.824 | 40.044 | 1.2091 | -2.0943 | -0.76943 | 0.3524 | 1.1213 |
| 20 | 37.538 | 38.977 | 41.129 | 1.1693 | 36.983 | 38.178 | 39.398 | 0.72871 | -3.0577 | -0.79969 | 0.685 | 1.1281 |
| 30 | 37.579 | 38.828 | 39.766 | 0.81692 | 36.714 | 37.972 | 38.916 | 0.65626 | -2.4338 | -0.85659 | 0.5512 | 0.96032 |
| 50 | 37.594 | 38.949 | 39.998 | 0.76579 | 36.173 | 37.606 | 39.231 | 0.81676 | -2.5383 | -1.3432 | 0.5626 | 0.82949 |

# Device Test: 16.15  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN3/1.6/14/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

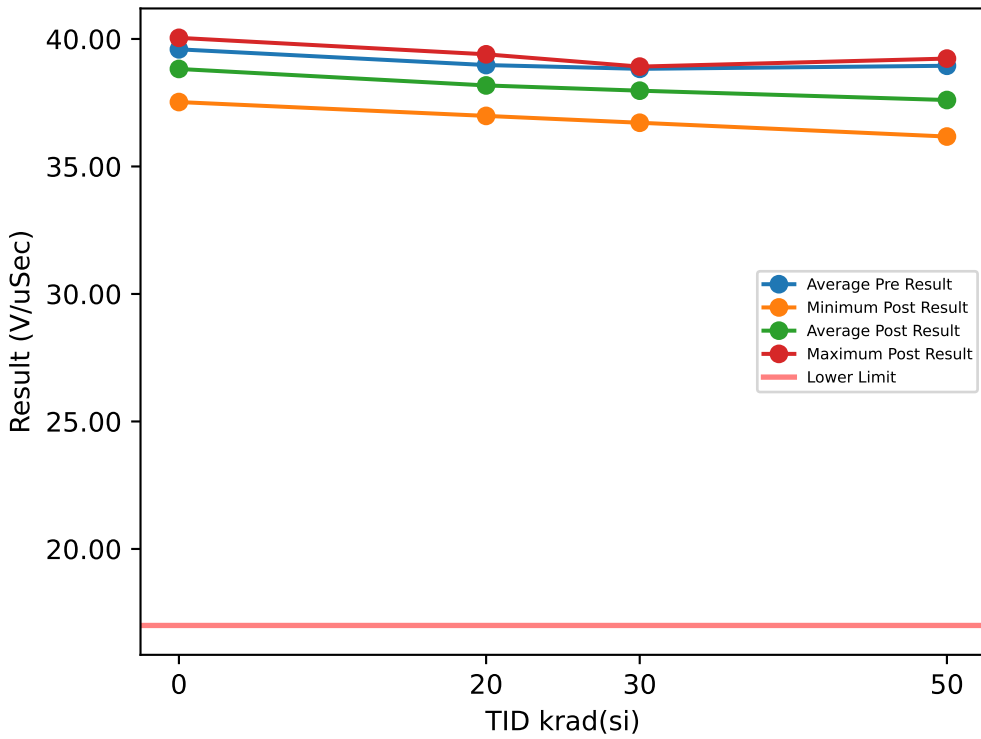| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 37.553 | 37.126 | -0.4269 |
| 2 | 20 | Bias | 37.538 | 38.127 | 0.5891 |
| 3 | 20 | Bias | 37.058 | 36.836 | -0.2223 |
| 4 | 20 | Bias | 38.921 | 37.029 | -1.8914 |
| 5 | 20 | Bias | 37.289 | 37.479 | 0.1898 |
| 6 | 20 | Unbiased | 38.572 | 39.796 | 1.2239 |
| 7 | 20 | Unbiased | 37.66 | 37.047 | -0.6132 |
| 8 | 20 | Unbiased | 40.542 | 38.706 | -1.8367 |
| 9 | 20 | Unbiased | 38 | 37.555 | -0.4442 |
| 10 | 20 | Unbiased | 39.491 | 38.2 | -1.2911 |
| 11 | 30 | Bias | 37.502 | 38.082 | 0.5795 |
| 12 | 30 | Bias | 38.916 | 35.718 | -3.1983 |
| 13 | 30 | Bias | 39.194 | 38.4 | -0.7942 |
| 14 | 30 | Bias | 37.964 | 37.498 | -0.466 |
| 15 | 30 | Bias | 38.973 | 38.515 | -0.4581 |
| 16 | 30 | Unbiased | 38.57 | 36.927 | -1.6433 |
| 17 | 30 | Unbiased | 38.74 | 39.869 | 1.1294 |
| 18 | 30 | Unbiased | 39.606 | 39.004 | -0.6019 |
| 19 | 30 | Unbiased | 37.719 | 36.634 | -1.085 |
| 20 | 30 | Unbiased | 38.523 | 37.052 | -1.4705 |
| 21 | 50 | Bias | 39.1 | 38.633 | -0.467 |
| 22 | 50 | Bias | 39.935 | 38.683 | -1.2518 |
| 23 | 50 | Bias | 38.807 | 38.37 | -0.4366 |
| 24 | 50 | Bias | 37.409 | 36.707 | -0.702 |
| 25 | 50 | Bias | 39.927 | 37.017 | -2.9106 |
| 26 | 50 | Unbiased | 38.305 | 35.778 | -2.527 |
| 27 | 50 | Unbiased | 37.602 | 36.629 | -0.973 |
| 28 | 50 | Unbiased | 37.565 | 35.989 | -1.5759 |
| 29 | 50 | Unbiased | 40.445 | 36.882 | -3.563 |
| 30 | 50 | Unbiased | 39.04 | 36.867 | -2.1733 |
| 31 | 0 | Correlation | 39.191 | 38.067 | -1.124 |
| 32 | 0 | Correlation | 38.462 | 39.901 | 1.4393 |
| 33 | 0 | Correlation | 37.427 | 37.885 | 0.4582 |
| 34 | 0 | Correlation | 38.943 | 37.671 | -1.2718 |

## Test Statistics (V/uSec)
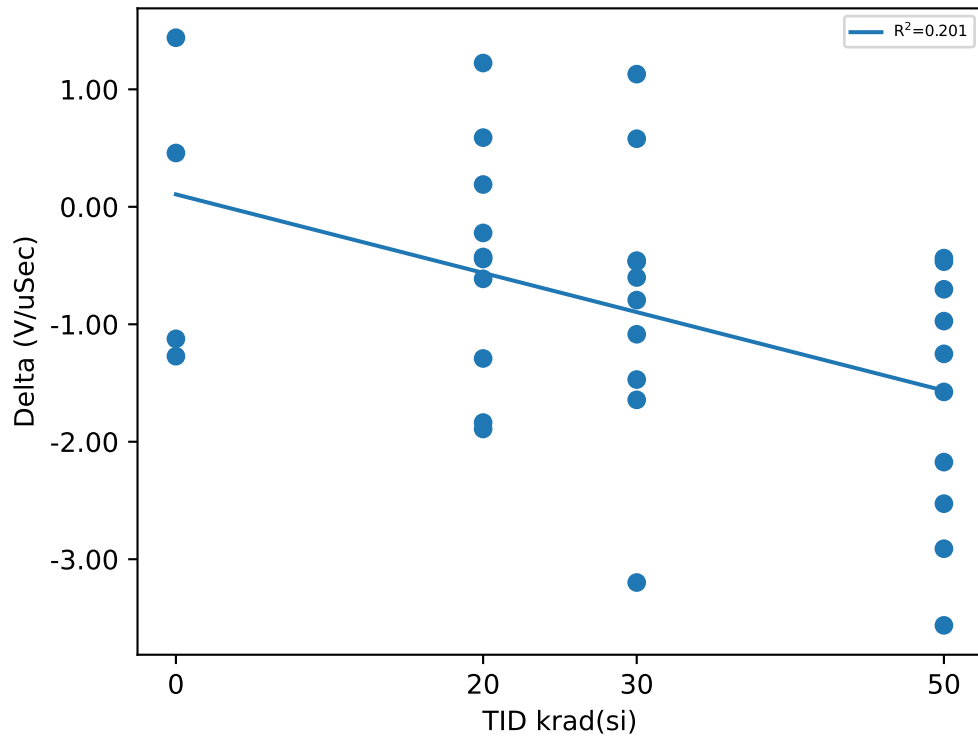
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 37.427 | 38.506 | 39.191 | 0.78032 | 37.671 | 38.381 | 39.901 | 1.0261 | -1.2718 | -0.12458 | 1.4393 | 1.3039 |
| 20 | 37.058 | 38.262 | 40.542 | 1.1102 | 36.836 | 37.79 | 39.796 | 0.92966 | -1.8914 | -0.4723 | 1.2239 | 1.0041 |
| 30 | 37.502 | 38.571 | 39.606 | 0.66731 | 35.718 | 37.77 | 39.869 | 1.2374 | -3.1983 | -0.80084 | 1.1294 | 1.1966 |
| 50 | 37.409 | 38.814 | 40.445 | 1.0828 | 35.778 | 37.155 | 38.683 | 1.0492 | -3.563 | -1.658 | -0.4366 | 1.0895 |

# Device Test: 16.16  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN4/1.6/14/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

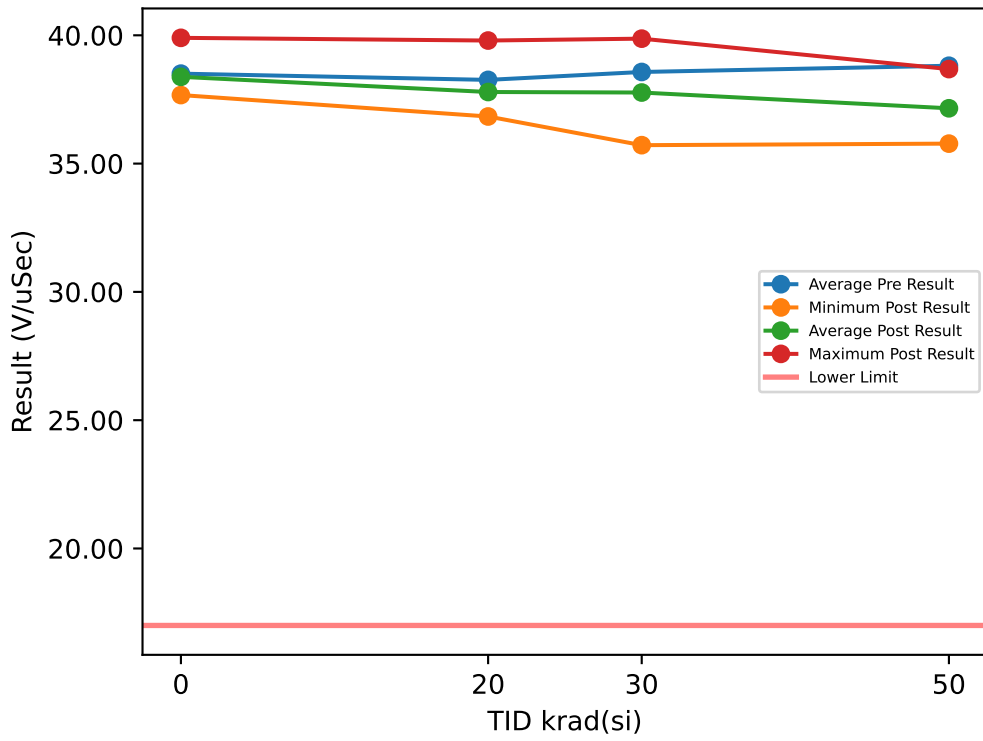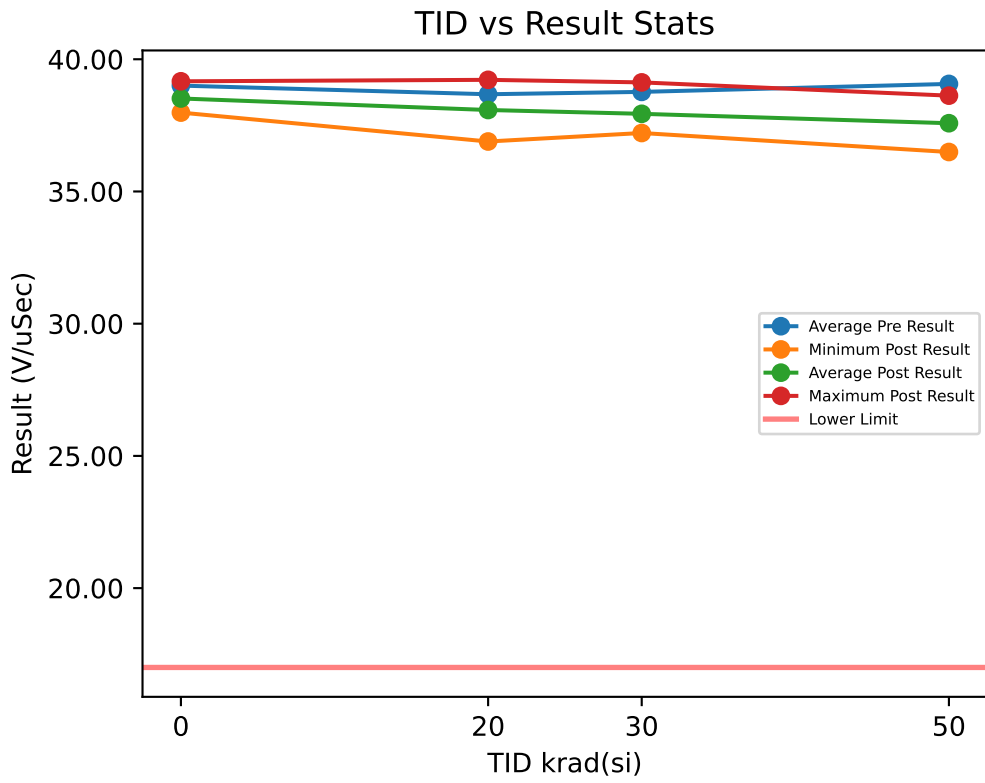| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 37.947 | 37.595 | -0.3518 |
| 2 | 20 | Bias | 38.565 | 37.196 | -1.3682 |
| 3 | 20 | Bias | 37.812 | 36.89 | -0.9222 |
| 4 | 20 | Bias | 39.493 | 39.222 | -0.2717 |
| 5 | 20 | Bias | 38.989 | 38.288 | -0.701 |
| 6 | 20 | Unbiased | 38.665 | 38.128 | -0.5365 |
| 7 | 20 | Unbiased | 38.829 | 38.023 | -0.8056 |
| 8 | 20 | Unbiased | 39.434 | 38.812 | -0.6216 |
| 9 | 20 | Unbiased | 38.336 | 38.253 | -0.0825 |
| 10 | 20 | Unbiased | 38.695 | 38.403 | -0.2917 |
| 11 | 30 | Bias | 37.996 | 38.094 | 0.0985 |
| 12 | 30 | Bias | 38.421 | 37.611 | -0.8101 |
| 13 | 30 | Bias | 39.109 | 37.91 | -1.1995 |
| 14 | 30 | Bias | 38.788 | 37.378 | -1.4098 |
| 15 | 30 | Bias | 38.026 | 38.646 | 0.6202 |
| 16 | 30 | Unbiased | 39.561 | 37.96 | -1.6011 |
| 17 | 30 | Unbiased | 39.49 | 39.125 | -0.365 |
| 18 | 30 | Unbiased | 38.551 | 37.915 | -0.6357 |
| 19 | 30 | Unbiased | 38.252 | 37.515 | -0.737 |
| 20 | 30 | Unbiased | 39.465 | 37.211 | -2.2545 |
| 21 | 50 | Bias | 38.671 | 38.101 | -0.5699 |
| 22 | 50 | Bias | 38.776 | 38.432 | -0.3436 |
| 23 | 50 | Bias | 38.616 | 37.934 | -0.6819 |
| 24 | 50 | Bias | 39.342 | 38.033 | -1.3095 |
| 25 | 50 | Bias | 39.656 | 38.624 | -1.032 |
| 26 | 50 | Unbiased | 38.872 | 36.514 | -2.3581 |
| 27 | 50 | Unbiased | 39.277 | 37.623 | -1.6541 |
| 28 | 50 | Unbiased | 39.139 | 36.493 | -2.6458 |
| 29 | 50 | Unbiased | 38.938 | 37.052 | -1.8865 |
| 30 | 50 | Unbiased | 39.385 | 37.006 | -2.3791 |
| 31 | 0 | Correlation | 38.499 | 38.51 | 0.0111 |
| 32 | 0 | Correlation | 39.022 | 38.408 | -0.6144 |
| 33 | 0 | Correlation | 38.793 | 39.166 | 0.3734 |
| 34 | 0 | Correlation | 39.699 | 37.983 | -1.7161 |

## Test Statistics (V/uSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 38.499 | 39.003 | 39.699 | 0.51085 | 37.983 | 38.517 | 39.166 | 0.48953 | -1.7161 | -0.4865 | 0.3734 | 0.91566 |
| 20 | 37.812 | 38.676 | 39.493 | 0.55495 | 36.89 | 38.081 | 39.222 | 0.70368 | -1.3682 | -0.59528 | -0.0825 | 0.37756 |
| 30 | 37.996 | 38.766 | 39.561 | 0.60877 | 37.211 | 37.937 | 39.125 | 0.58351 | -2.2545 | -0.8294 | 0.6202 | 0.8383 |
| 50 | 38.616 | 39.067 | 39.656 | 0.34527 | 36.493 | 37.581 | 38.624 | 0.77082 | -2.6458 | -1.4861 | -0.3436 | 0.82463 |
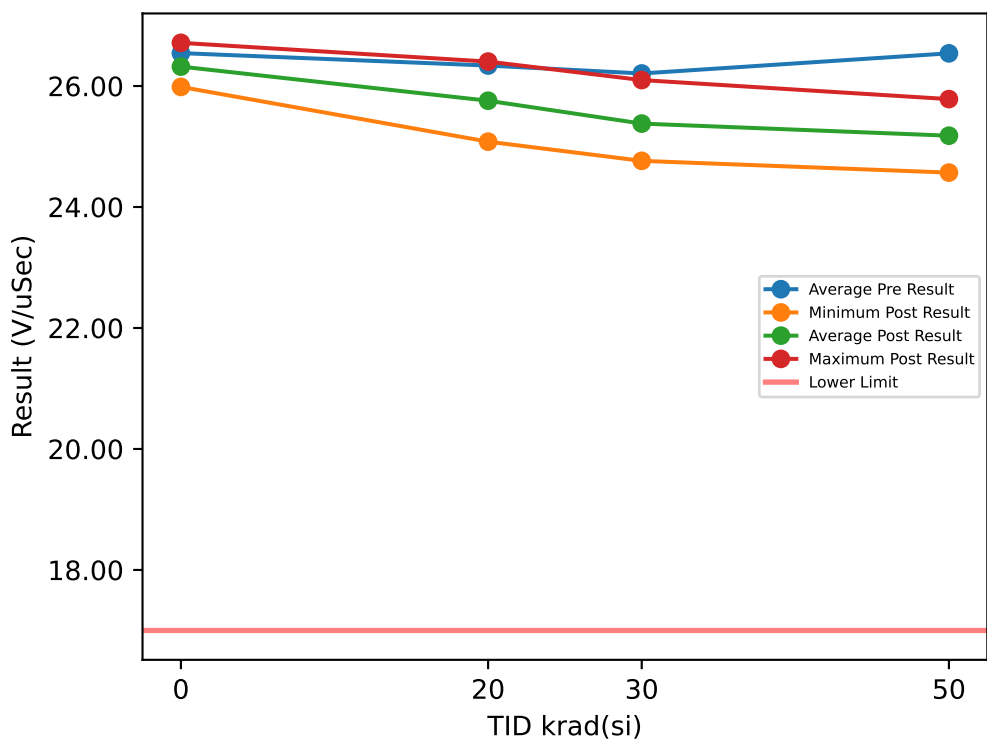
# Device Test: 16.17  PWRGD_SLEW_RATE_RISE(_LEVEL|RISE/PWRGD/1.6/14/0/0/0/@PWRGD_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 25.599 | 25.338 | -0.2611 |
| 2 | 20 | Bias | 25.828 | 25.111 | -0.7167 |
| 3 | 20 | Bias | 25.81 | 25.08 | -0.7301 |
| 4 | 20 | Bias | 27.07 | 26.404 | -0.6659 |
| 5 | 20 | Bias | 26.499 | 25.765 | -0.7336 |
| 6 | 20 | Unbiased | 26.669 | 25.898 | -0.7706 |
| 7 | 20 | Unbiased | 26.36 | 25.891 | -0.4685 |
| 8 | 20 | Unbiased | 26.678 | 26.235 | -0.4427 |
| 9 | 20 | Unbiased | 26.239 | 25.701 | -0.5387 |
| 10 | 20 | Unbiased | 26.633 | 26.146 | -0.4868 |
| 11 | 30 | Bias | 25.596 | 25.501 | -0.0957 |
| 12 | 30 | Bias | 25.917 | 24.763 | -1.1542 |
| 13 | 30 | Bias | 26.174 | 25.124 | -1.0497 |
| 14 | 30 | Bias | 26.583 | 25.4 | -1.1832 |
| 15 | 30 | Bias | 25.851 | 25.509 | -0.3418 |
| 16 | 30 | Unbiased | 26.765 | 25.165 | -1.6005 |
| 17 | 30 | Unbiased | 26.584 | 26.099 | -0.4853 |
| 18 | 30 | Unbiased | 26.345 | 25.598 | -0.7465 |
| 19 | 30 | Unbiased | 25.734 | 25.533 | -0.2011 |
| 20 | 30 | Unbiased | 26.526 | 25.1 | -1.4257 |
| 21 | 50 | Bias | 26.527 | 25.492 | -1.0353 |
| 22 | 50 | Bias | 26.438 | 25.335 | -1.1025 |
| 23 | 50 | Bias | 26.549 | 25.197 | -1.3522 |
| 24 | 50 | Bias | 26.631 | 25.448 | -1.1834 |
| 25 | 50 | Bias | 27.208 | 25.784 | -1.4238 |
| 26 | 50 | Unbiased | 26.177 | 24.707 | -1.4704 |
| 27 | 50 | Unbiased | 27.075 | 25.542 | -1.5327 |
| 28 | 50 | Unbiased | 25.989 | 24.569 | -1.42 |
| 29 | 50 | Unbiased | 26.223 | 24.753 | -1.4702 |
| 30 | 50 | Unbiased | 26.583 | 24.961 | -1.6223 |
| 31 | 0 | Correlation | 26.186 | 25.985 | -0.2009 |
| 32 | 0 | Correlation | 26.39 | 26.291 | -0.0985 |
| 33 | 0 | Correlation | 26.877 | 26.714 | -0.1635 |
| 34 | 0 | Correlation | 26.724 | 26.294 | -0.4297 |

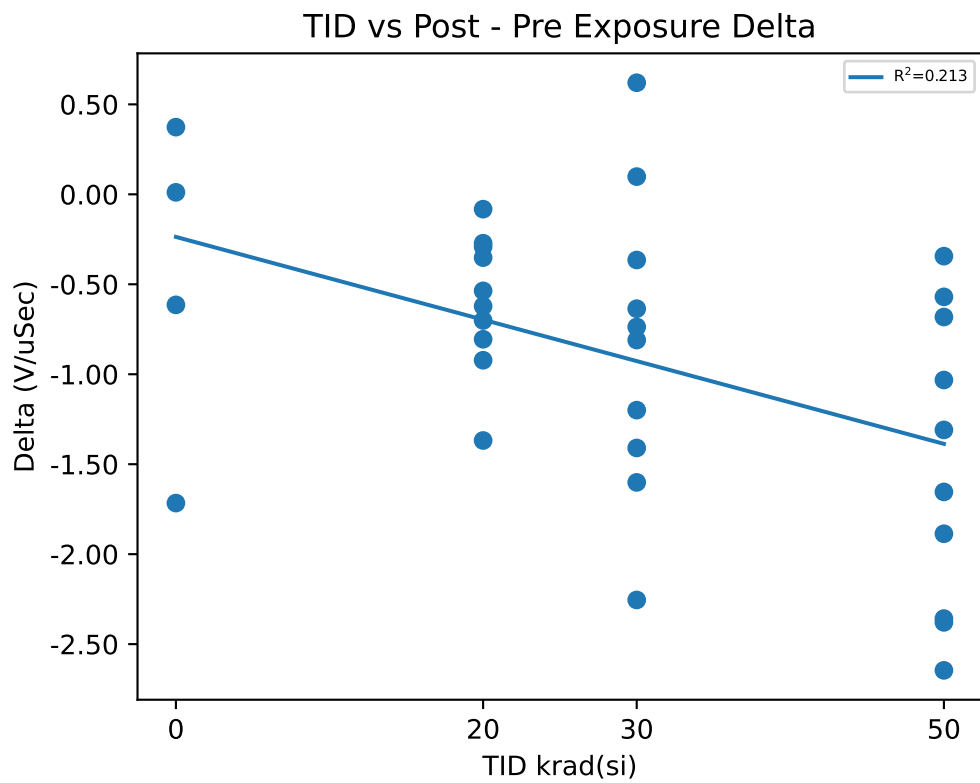## Test Statistics (V/uSec)
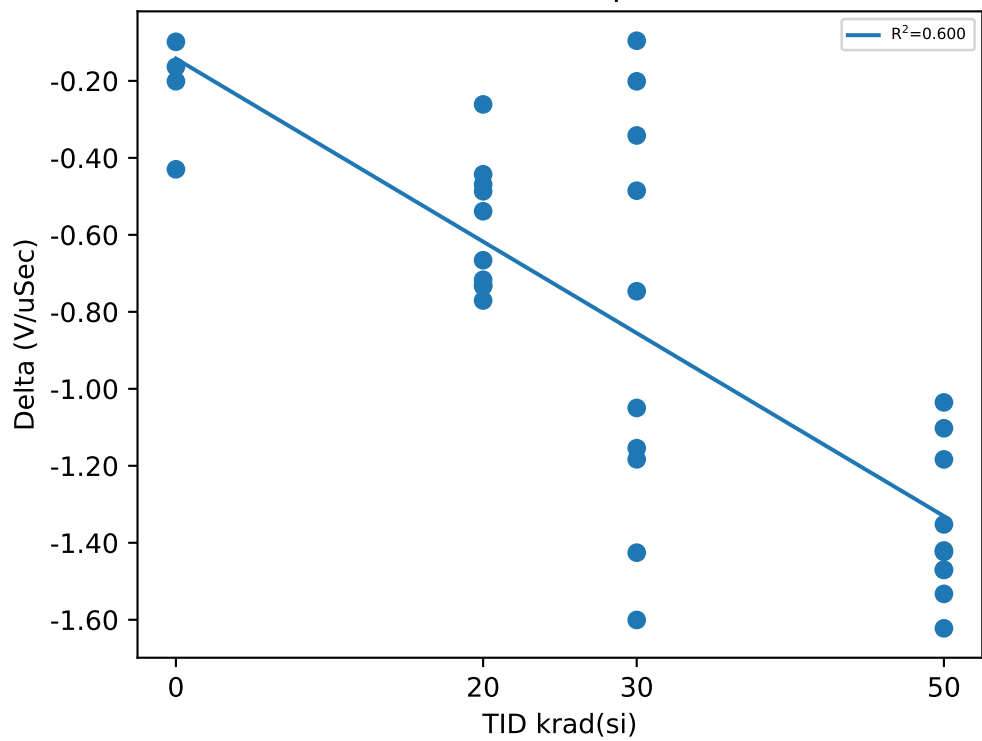
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 26.186 | 26.544 | 26.877 | 0.31376 | 25.985 | 26.321 | 26.714 | 0.29927 | -0.4297 | -0.22315 | -0.0985 | 0.14405 |
| 20 | 25.599 | 26.338 | 27.07 | 0.46775 | 25.08 | 25.757 | 26.404 | 0.45842 | -0.7706 | -0.58147 | -0.2611 | 0.16729 |
| 30 | 25.596 | 26.207 | 26.765 | 0.41148 | 24.763 | 25.379 | 26.099 | 0.36359 | -1.6005 | -0.82837 | -0.0957 | 0.52972 |
| 50 | 25.989 | 26.54 | 27.208 | 0.37838 | 24.569 | 25.179 | 25.784 | 0.41051 | -1.6223 | -1.3613 | -1.0353 | 0.19253 |

## TID vs Result Stats
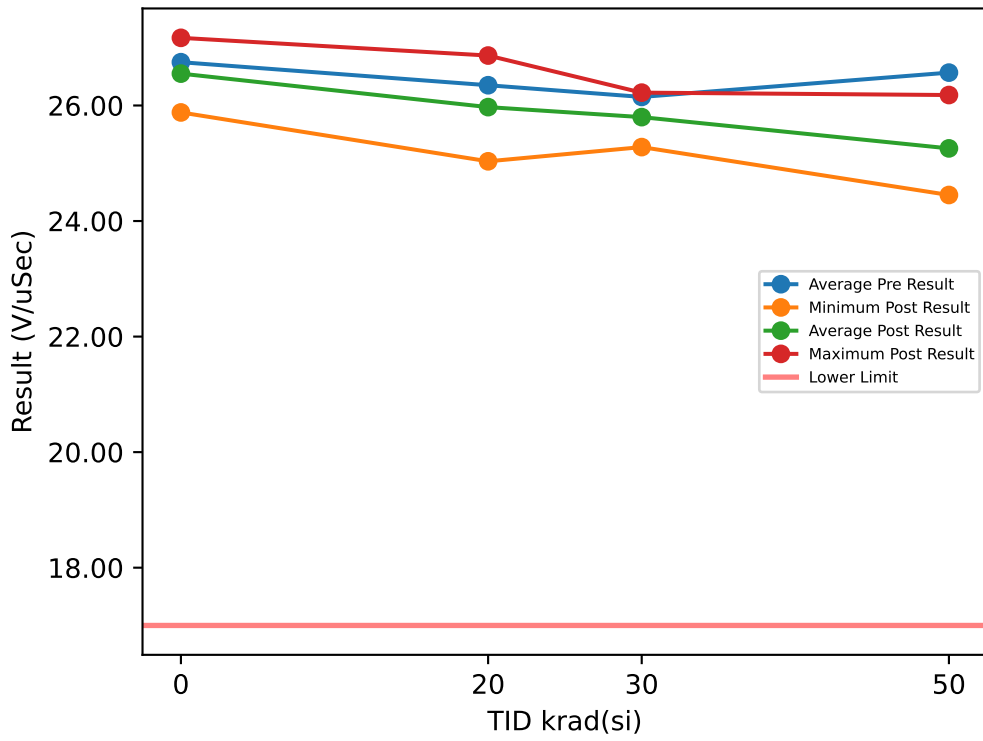


## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 26.024 | 25.572 | -0.4523 |
| 2 | 20 | Bias | 25.731 | 25.253 | -0.4785 |
| 3 | 20 | Bias | 25.998 | 25.034 | -0.9646 |
| 4 | 20 | Bias | 26.573 | 26.864 | 0.292 |
| 5 | 20 | Bias | 26.763 | 26.541 | -0.222 |
| 6 | 20 | Unbiased | 26.483 | 26.196 | -0.2866 |
| 7 | 20 | Unbiased | 26.732 | 25.628 | -1.1042 |
| 8 | 20 | Unbiased | 26.752 | 26.489 | -0.2627 |
| 9 | 20 | Unbiased | 26.059 | 26.021 | -0.0382 |
| 10 | 20 | Unbiased | 26.39 | 26.12 | -0.27 |
| 11 | 30 | Bias | 25.252 | 26.05 | 0.7981 |
| 12 | 30 | Bias | 25.773 | 25.28 | -0.4936 |
| 13 | 30 | Bias | 26.562 | 25.699 | -0.8633 |
| 14 | 30 | Bias | 26.197 | 25.654 | -0.5427 |
| 15 | 30 | Bias | 25.986 | 26.203 | 0.2163 |
| 16 | 30 | Unbiased | 27.092 | 26.075 | -1.0168 |
| 17 | 30 | Unbiased | 26.009 | 25.63 | -0.379 |
| 18 | 30 | Unbiased | 26.419 | 26.222 | -0.1968 |
| 19 | 30 | Unbiased | 25.523 | 25.57 | 0.0467 |
| 20 | 30 | Unbiased | 26.665 | 25.602 | -1.0627 |
| 21 | 50 | Bias | 26.296 | 26.181 | -0.1148 |
| 22 | 50 | Bias | 26.876 | 25.145 | -1.7304 |
| 23 | 50 | Bias | 26.489 | 24.892 | -1.5976 |
| 24 | 50 | Bias | 26.582 | 25.569 | -1.0124 |
| 25 | 50 | Bias | 27.312 | 25.345 | -1.9674 |
| 26 | 50 | Unbiased | 26.38 | 25.381 | -0.9995 |
| 27 | 50 | Unbiased | 27.103 | 25.533 | -1.5701 |
| 28 | 50 | Unbiased | 25.761 | 25.088 | -0.6727 |
| 29 | 50 | Unbiased | 26.118 | 24.451 | -1.6669 |
| 30 | 50 | Unbiased | 26.773 | 24.991 | -1.783 |
| 31 | 0 | Correlation | 26.685 | 25.88 | -0.8053 |
| 32 | 0 | Correlation | 26.774 | 26.985 | 0.2105 |
| 33 | 0 | Correlation | 26.888 | 27.171 | 0.2828 |
| 34 | 0 | Correlation | 26.651 | 26.171 | -0.4794 |

## Test Statistics (V/uSec)
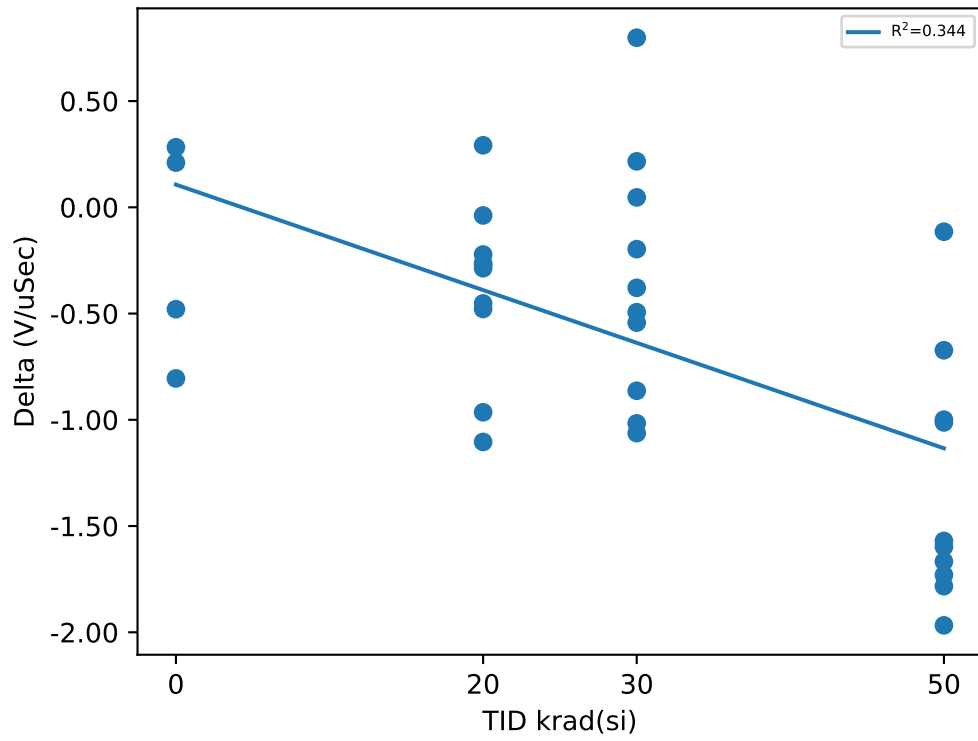
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 26.651 | 26.749 | 26.888 | 0.1061 | 25.88 | 26.552 | 27.171 | 0.62378 | -0.8053 | -0.19785 | 0.2828 | 0.53105 |
| 20 | 25.731 | 26.351 | 26.763 | 0.37186 | 25.034 | 25.972 | 26.864 | 0.59057 | -1.1042 | -0.37871 | 0.292 | 0.40948 |
| 30 | 25.252 | 26.148 | 27.092 | 0.55611 | 25.28 | 25.799 | 26.222 | 0.31647 | -1.0627 | -0.34938 | 0.7981 | 0.58635 |
| 50 | 25.761 | 26.569 | 27.312 | 0.46517 | 24.451 | 25.257 | 26.181 | 0.46504 | -1.9674 | -1.3115 | -0.1148 | 0.58973 |

# Device Test: 16.19  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN1/1.6/14/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 153.31 | 151.64 | -1.6669 |
| 2 | 20 | Bias | 155.57 | 151.47 | -4.0953 |
| 3 | 20 | Bias | 144.59 | 153.08 | 8.4868 |
| 4 | 20 | Bias | 151.95 | 151.47 | -0.4801 |
| 5 | 20 | Bias | 149.76 | 152.08 | 2.3209 |
| 6 | 20 | Unbiased | 154.83 | 157.27 | 2.4433 |
| 7 | 20 | Unbiased | 151.21 | 150.52 | -0.6964 |
| 8 | 20 | Unbiased | 147.29 | 152.02 | 4.7296 |
| 9 | 20 | Unbiased | 147.46 | 152.79 | 5.3248 |
| 10 | 20 | Unbiased | 147.43 | 152.08 | 4.6454 |
| 11 | 30 | Bias | 146.31 | 162.89 | 16.575 |
| 12 | 30 | Bias | 147.16 | 158.17 | 11.012 |
| 13 | 30 | Bias | 149.31 | 153.16 | 3.852 |
| 14 | 30 | Bias | 149.05 | 158.67 | 9.6207 |
| 15 | 30 | Bias | 146.52 | 157.78 | 11.264 |
| 16 | 30 | Unbiased | 150.25 | 157.29 | 7.0316 |
| 17 | 30 | Unbiased | 147.78 | 159.62 | 11.843 |
| 18 | 30 | Unbiased | 148.25 | 158.79 | 10.548 |
| 19 | 30 | Unbiased | 144.77 | 154.39 | 9.6174 |
| 20 | 30 | Unbiased | 147.91 | 150.75 | 2.8428 |
| 21 | 50 | Bias | 149.75 | 158.8 | 9.0539 |
| 22 | 50 | Bias | 147.96 | 160.24 | 12.282 |
| 23 | 50 | Bias | 152.93 | 160.13 | 7.2017 |
| 24 | 50 | Bias | 150.26 | 156.86 | 6.6039 |
| 25 | 50 | Bias | 152.01 | 159.69 | 7.6879 |
| 26 | 50 | Unbiased | 145.03 | 147.97 | 2.935 |
| 27 | 50 | Unbiased | 149 | 149.51 | 0.505 |
| 28 | 50 | Unbiased | 141.46 | 151.01 | 9.554 |
| 29 | 50 | Unbiased | 148.1 | 150.74 | 2.6426 |
| 30 | 50 | Unbiased | 145.28 | 153.68 | 8.4009 |
| 31 | 0 | Correlation | 148.68 | 144.72 | -3.9624 |
| 32 | 0 | Correlation | 148.43 | 148.12 | -0.312 |
| 33 | 0 | Correlation | 151.47 | 149.23 | -2.241 |
| 34 | 0 | Correlation | 144.79 | 152.51 | 7.724 |

## Test Statistics (V/uSec)
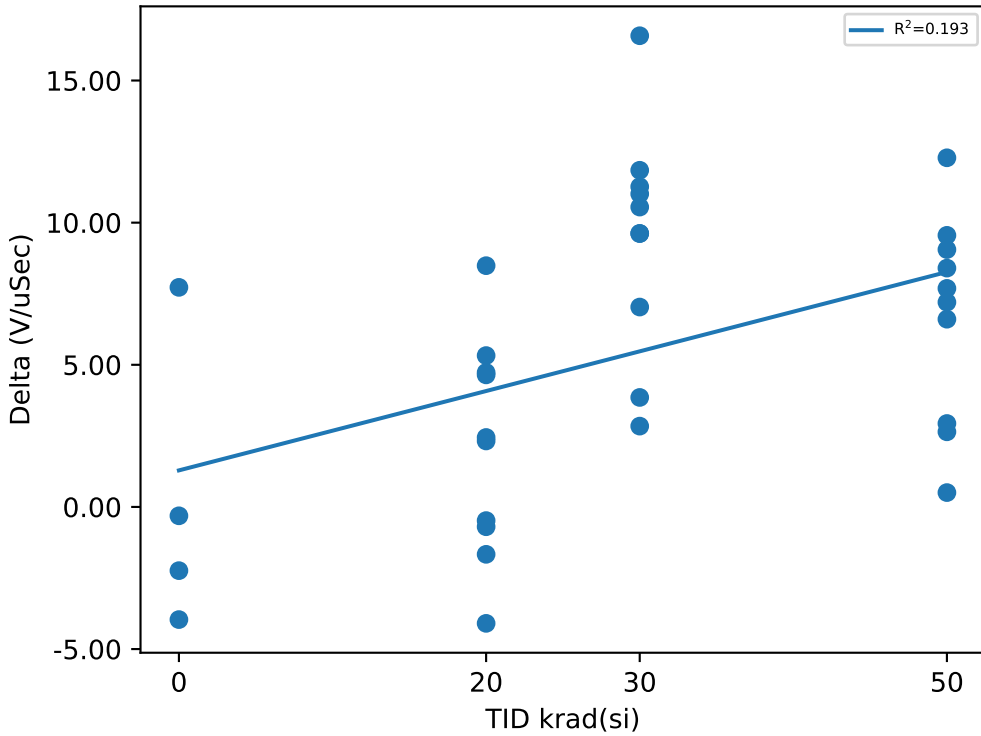
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 144.79 | 148.34 | 151.47 | 2.7402 | 144.72 | 148.65 | 152.51 | 3.2129 | -3.9624 | 0.30215 | 7.724 | 5.1677 |
| 20 | 144.59 | 150.34 | 155.57 | 3.6371 | 150.52 | 152.44 | 157.27 | 1.8411 | -4.0953 | 2.1012 | 8.4868 | 3.8268 |
| 30 | 144.77 | 147.73 | 150.25 | 1.6138 | 150.75 | 157.15 | 162.89 | 3.4941 | 2.8428 | 9.4207 | 16.575 | 4.0044 |
| 50 | 141.46 | 148.18 | 152.93 | 3.4679 | 147.97 | 154.86 | 160.24 | 4.8202 | 0.505 | 6.6866 | 12.282 | 3.6207 |

# Device Test: 16.2   EN_SLEW_RATE_RISE(_LEVEL|RISE/EN2/1.6/3/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

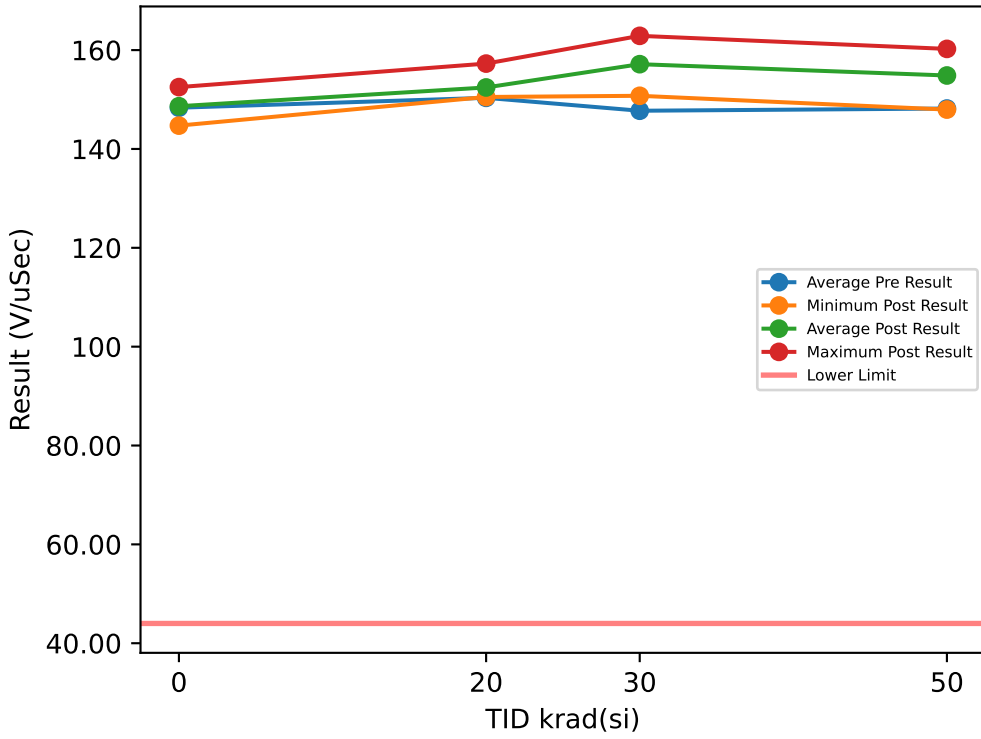| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 37.862 | 37.752 | -0.1093 |
| 2 | 20 | Bias | 38.75 | 37.26 | -1.49 |
| 3 | 20 | Bias | 38.184 | 36.444 | -1.74 |
| 4 | 20 | Bias | 40.229 | 39.313 | -0.9163 |
| 5 | 20 | Bias | 38.393 | 37.503 | -0.8898 |
| 6 | 20 | Unbiased | 39.465 | 37.784 | -1.6817 |
| 7 | 20 | Unbiased | 39.363 | 37.577 | -1.7864 |
| 8 | 20 | Unbiased | 41.167 | 39.712 | -1.455 |
| 9 | 20 | Unbiased | 38.761 | 37.746 | -1.0145 |
| 10 | 20 | Unbiased | 38.648 | 38.029 | -0.619 |
| 11 | 30 | Bias | 37.147 | 38.111 | 0.9639 |
| 12 | 30 | Bias | 38.075 | 37.241 | -0.8337 |
| 13 | 30 | Bias | 37.841 | 37.777 | -0.0639 |
| 14 | 30 | Bias | 39.58 | 38.634 | -0.9466 |
| 15 | 30 | Bias | 38.923 | 37.27 | -1.6533 |
| 16 | 30 | Unbiased | 41.354 | 37.402 | -3.9513 |
| 17 | 30 | Unbiased | 38.145 | 38.435 | 0.2898 |
| 18 | 30 | Unbiased | 40.275 | 39.229 | -1.0454 |
| 19 | 30 | Unbiased | 39.403 | 38 | -1.4029 |
| 20 | 30 | Unbiased | 39.911 | 39.003 | -0.908 |
| 21 | 50 | Bias | 39.295 | 37.162 | -2.1329 |
| 22 | 50 | Bias | 40.806 | 36.517 | -4.2884 |
| 23 | 50 | Bias | 39.954 | 36.976 | -2.9776 |
| 24 | 50 | Bias | 38.414 | 38.17 | -0.2439 |
| 25 | 50 | Bias | 39.816 | 39.553 | -0.2639 |
| 26 | 50 | Unbiased | 38.975 | 37.257 | -1.7181 |
| 27 | 50 | Unbiased | 38.986 | 39.535 | 0.5491 |
| 28 | 50 | Unbiased | 38.394 | 36.971 | -1.423 |
| 29 | 50 | Unbiased | 38.434 | 36.548 | -1.8856 |
| 30 | 50 | Unbiased | 37.933 | 37.51 | -0.423 |
| 31 | 0 | Correlation | 37.448 | 39.185 | 1.7372 |
| 32 | 0 | Correlation | 37.978 | 39.596 | 1.6175 |
| 33 | 0 | Correlation | 38.162 | 39.552 | 1.3895 |
| 34 | 0 | Correlation | 38.969 | 39.44 | 0.4707 |

## Test Statistics (V/uSec)
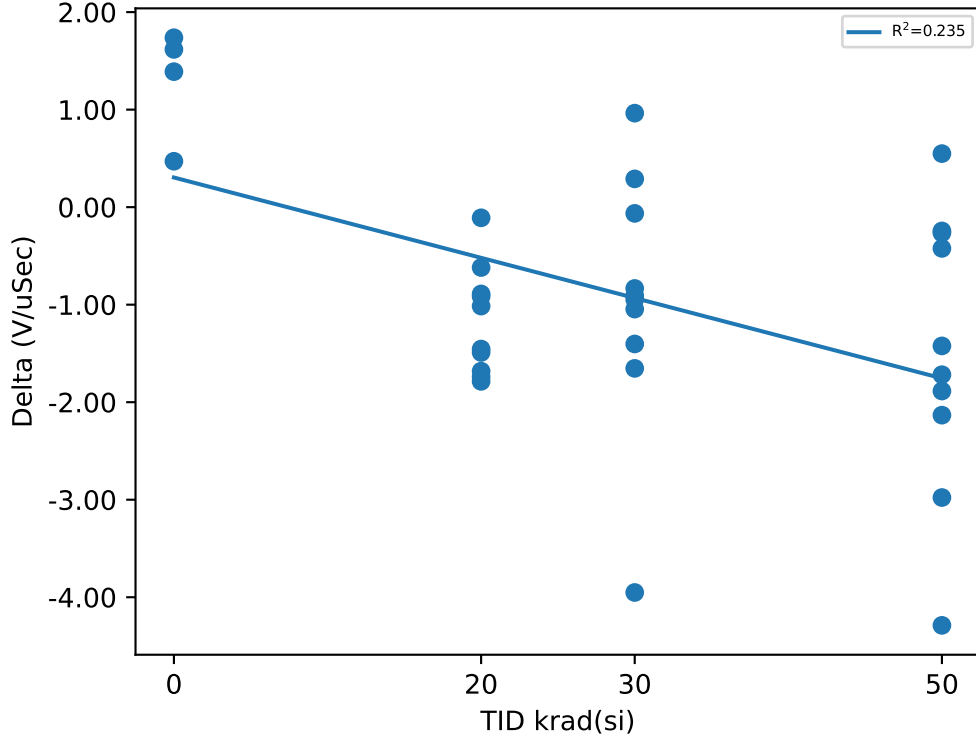
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 37.448 | 38.139 | 38.969 | 0.63055 | 39.185 | 39.443 | 39.596 | 0.18423 | 0.4707 | 1.3037 | 1.7372 | 0.57377 |
| 20 | 37.862 | 39.082 | 41.167 | 1.0034 | 36.444 | 37.912 | 39.712 | 0.95129 | -1.7864 | -1.1702 | -0.1093 | 0.55237 |
| 30 | 37.147 | 39.065 | 41.354 | 1.2833 | 37.241 | 38.11 | 39.229 | 0.70826 | -3.9513 | -0.95514 | 0.9639 | 1.3215 |
| 50 | 37.933 | 39.101 | 40.806 | 0.88149 | 36.517 | 37.62 | 39.553 | 1.1185 | -4.2884 | -1.4807 | 0.5491 | 1.4538 |

# Device Test: 16.20  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN2/1.6/14/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

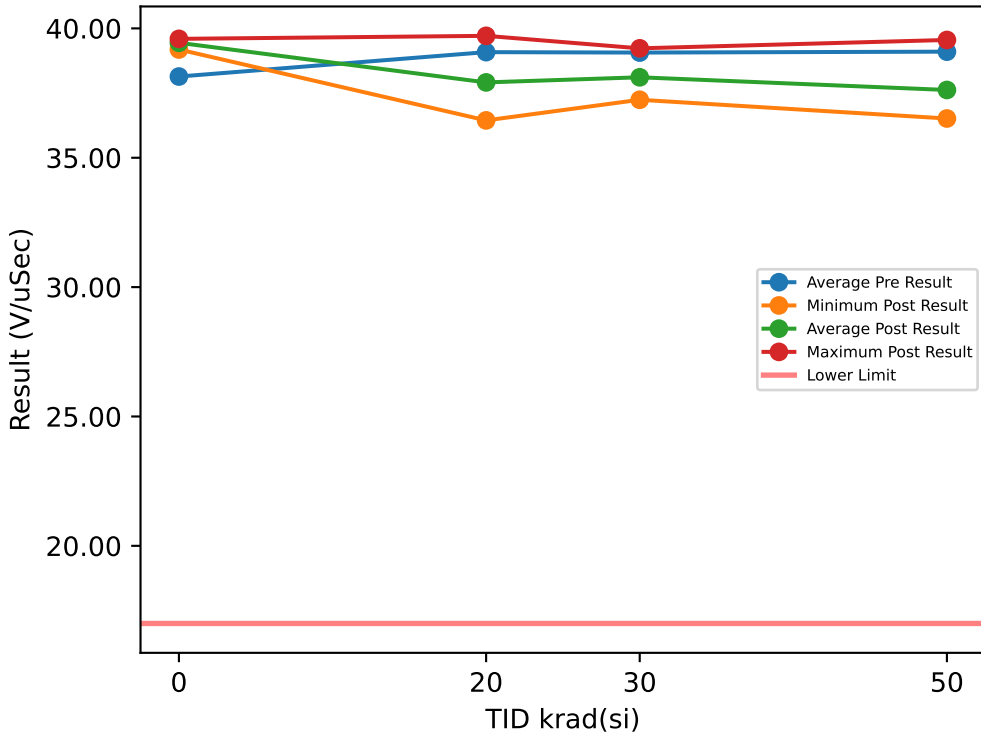| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 142.92 | 142 | -0.922 |
| 2 | 20 | Bias | 143.79 | 146.11 | 2.3158 |
| 3 | 20 | Bias | 141.96 | 142.88 | 0.9155 |
| 4 | 20 | Bias | 148.4 | 145.76 | -2.6386 |
| 5 | 20 | Bias | 143.84 | 152.18 | 8.3329 |
| 6 | 20 | Unbiased | 143.63 | 150.81 | 7.1752 |
| 7 | 20 | Unbiased | 142.32 | 145.7 | 3.3795 |
| 8 | 20 | Unbiased | 146.54 | 149.6 | 3.0652 |
| 9 | 20 | Unbiased | 150.22 | 152.57 | 2.3575 |
| 10 | 20 | Unbiased | 143.02 | 142.38 | -0.6351 |
| 11 | 30 | Bias | 148.35 | 159.77 | 11.422 |
| 12 | 30 | Bias | 143.67 | 155.22 | 11.542 |
| 13 | 30 | Bias | 142.24 | 160.49 | 18.245 |
| 14 | 30 | Bias | 141.16 | 154.88 | 13.723 |
| 15 | 30 | Bias | 141.93 | 165.08 | 23.15 |
| 16 | 30 | Unbiased | 148 | 155.13 | 7.1331 |
| 17 | 30 | Unbiased | 142.83 | 155.26 | 12.43 |
| 18 | 30 | Unbiased | 144.16 | 162.14 | 17.974 |
| 19 | 30 | Unbiased | 149.26 | 160.92 | 11.662 |
| 20 | 30 | Unbiased | 144.63 | 162.18 | 17.556 |
| 21 | 50 | Bias | 148.6 | 154.75 | 6.1483 |
| 22 | 50 | Bias | 145.94 | 156.83 | 10.898 |
| 23 | 50 | Bias | 147.68 | 162.2 | 14.519 |
| 24 | 50 | Bias | 142.26 | 160.48 | 18.216 |
| 25 | 50 | Bias | 149.21 | 153.96 | 4.7492 |
| 26 | 50 | Unbiased | 143.86 | 148.29 | 4.434 |
| 27 | 50 | Unbiased | 149.72 | 145.39 | -4.3323 |
| 28 | 50 | Unbiased | 152.31 | 154.86 | 2.5493 |
| 29 | 50 | Unbiased | 146.92 | 151.07 | 4.1464 |
| 30 | 50 | Unbiased | 141.1 | 143.45 | 2.3464 |
| 31 | 0 | Correlation | 150.08 | 152.84 | 2.7601 |
| 32 | 0 | Correlation | 147.7 | 146.56 | -1.1335 |
| 33 | 0 | Correlation | 138.12 | 143.63 | 5.5069 |
| 34 | 0 | Correlation | 144.76 | 143.23 | -1.5229 |

## Test Statistics (V/uSec)
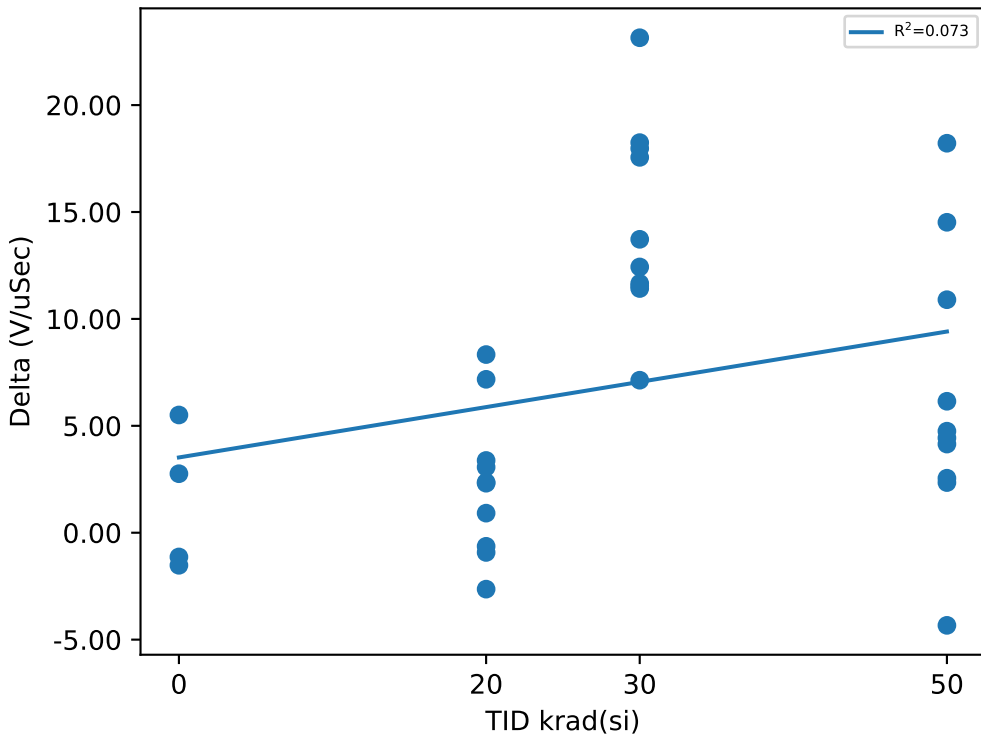
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 138.12 | 145.16 | 150.08 | 5.177 | 143.23 | 146.57 | 152.84 | 4.4402 | -1.5229 | 1.4027 | 5.5069 | 3.3505 |
| 20 | 141.96 | 144.66 | 150.22 | 2.7769 | 142 | 147 | 152.57 | 4.0347 | -2.6386 | 2.3346 | 8.3329 | 3.4514 |
| 30 | 141.16 | 144.62 | 149.26 | 2.905 | 154.88 | 159.11 | 165.08 | 3.7057 | 7.1331 | 14.484 | 23.15 | 4.6631 |
| 50 | 141.1 | 146.76 | 152.31 | 3.5164 | 143.45 | 153.13 | 162.2 | 6.1251 | -4.3323 | 6.3675 | 18.216 | 6.5314 |

# Device Test: 16.21 EN_SLEW_RATE_FALL(_LEVEL|FALL/EN3/1.6/14/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

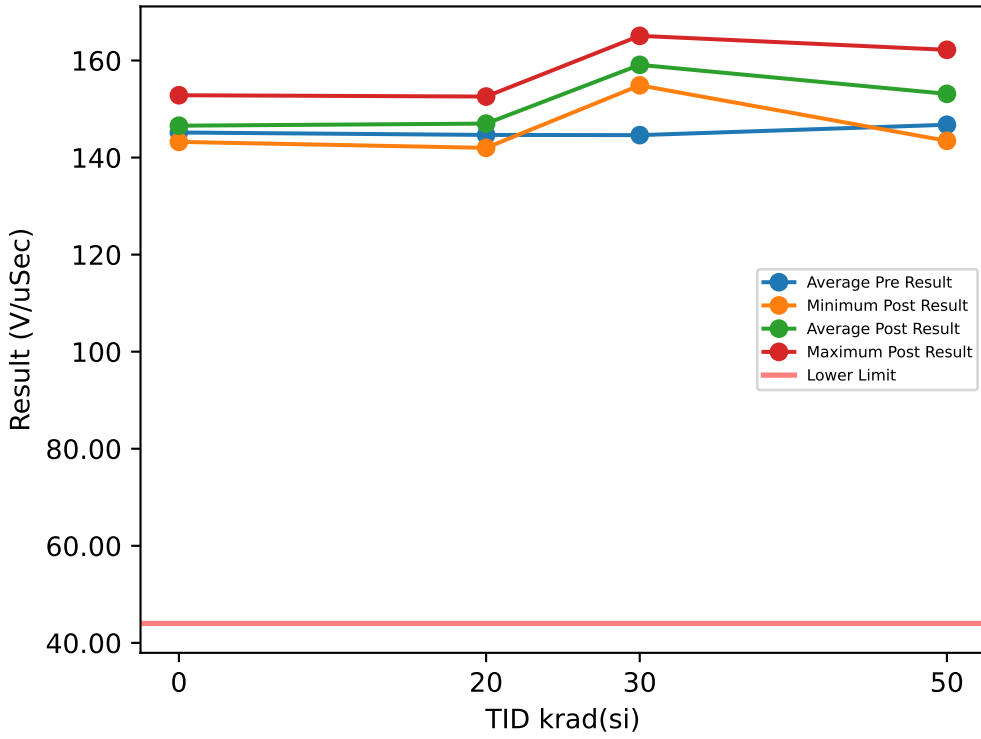| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 145.19 | 149.86 | 4.6699 |
| 2 | 20 | Bias | 147.57 | 140.66 | -6.9121 |
| 3 | 20 | Bias | 143.7 | 138.22 | -5.4818 |
| 4 | 20 | Bias | 143.85 | 149.09 | 5.2467 |
| 5 | 20 | Bias | 152.12 | 144.23 | -7.8889 |
| 6 | 20 | Unbiased | 152.53 | 152.7 | 0.1719 |
| 7 | 20 | Unbiased | 149.06 | 149.29 | 0.232 |
| 8 | 20 | Unbiased | 139.07 | 149.96 | 10.89 |
| 9 | 20 | Unbiased | 147.6 | 148.09 | 0.4977 |
| 10 | 20 | Unbiased | 138.79 | 142.03 | 3.2416 |
| 11 | 30 | Bias | 142.74 | 159.5 | 16.754 |
| 12 | 30 | Bias | 139.08 | 153.27 | 14.191 |
| 13 | 30 | Bias | 142.76 | 156.22 | 13.468 |
| 14 | 30 | Bias | 147.7 | 156.04 | 8.3415 |
| 15 | 30 | Bias | 142.42 | 151.44 | 9.0246 |
| 16 | 30 | Unbiased | 153.89 | 157.48 | 3.5887 |
| 17 | 30 | Unbiased | 146.26 | 156.19 | 9.9304 |
| 18 | 30 | Unbiased | 142.89 | 148.47 | 5.5821 |
| 19 | 30 | Unbiased | 139.6 | 155.92 | 16.319 |
| 20 | 30 | Unbiased | 136.31 | 152.68 | 16.373 |
| 21 | 50 | Bias | 137.81 | 159.33 | 21.524 |
| 22 | 50 | Bias | 144.29 | 157.62 | 13.327 |
| 23 | 50 | Bias | 141.87 | 148.89 | 7.0233 |
| 24 | 50 | Bias | 145.7 | 158.09 | 12.393 |
| 25 | 50 | Bias | 150.79 | 150.05 | -0.7376 |
| 26 | 50 | Unbiased | 136.12 | 152.78 | 16.666 |
| 27 | 50 | Unbiased | 144.86 | 150.03 | 5.173 |
| 28 | 50 | Unbiased | 146.91 | 151.4 | 4.4924 |
| 29 | 50 | Unbiased | 138.49 | 145.61 | 7.1243 |
| 30 | 50 | Unbiased | 137.25 | 151.9 | 14.654 |
| 31 | 0 | Correlation | 153.7 | 140.89 | -12.805 |
| 32 | 0 | Correlation | 142.78 | 149.13 | 6.3545 |
| 33 | 0 | Correlation | 144.49 | 145.13 | 0.6324 |
| 34 | 0 | Correlation | 141.31 | 149.13 | 7.823 |

## Test Statistics (V/uSec)
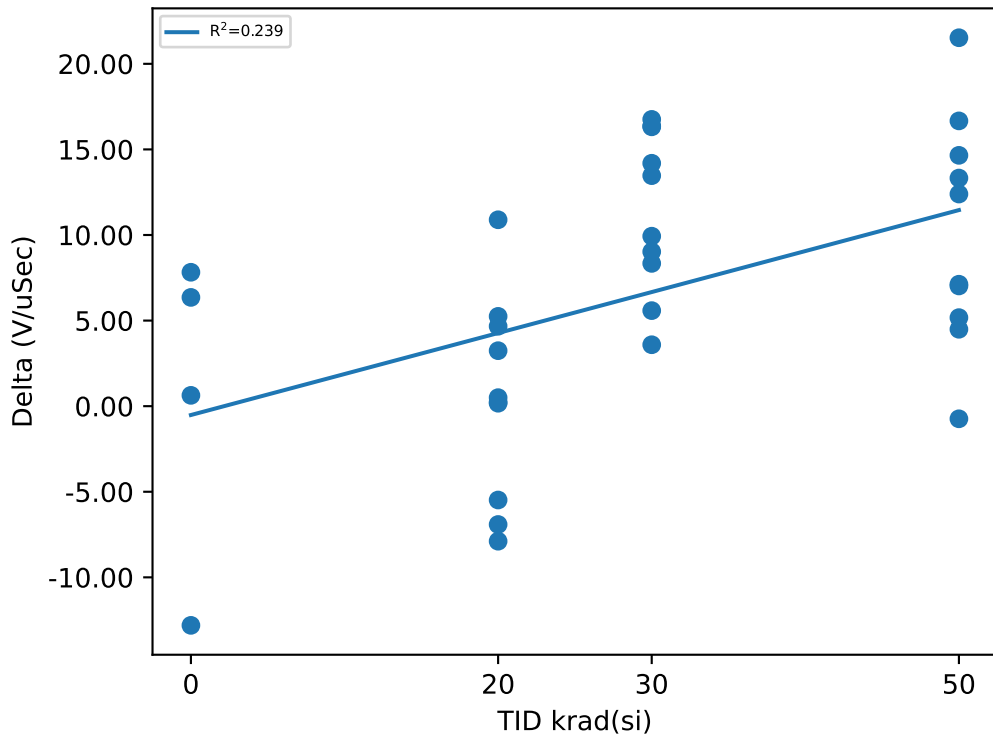
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 141.31 | 145.57 | 153.7 | 5.5723 | 140.89 | 146.07 | 149.13 | 3.9354 | -12.805 | 0.50125 | 7.823 | 9.3975 |
| 20 | 138.79 | 145.95 | 152.53 | 4.7713 | 138.22 | 146.41 | 152.7 | 4.7886 | -7.8889 | 0.46665 | 10.89 | 5.9315 |
| 30 | 136.31 | 143.36 | 153.89 | 4.968 | 148.47 | 154.72 | 159.5 | 3.2334 | 3.5887 | 11.357 | 16.754 | 4.7336 |
| 50 | 136.12 | 142.41 | 150.79 | 4.8763 | 145.61 | 152.57 | 159.33 | 4.4513 | -0.7376 | 10.164 | 21.524 | 6.6789 |

# Device Test: 16.22  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN4/1.6/14/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

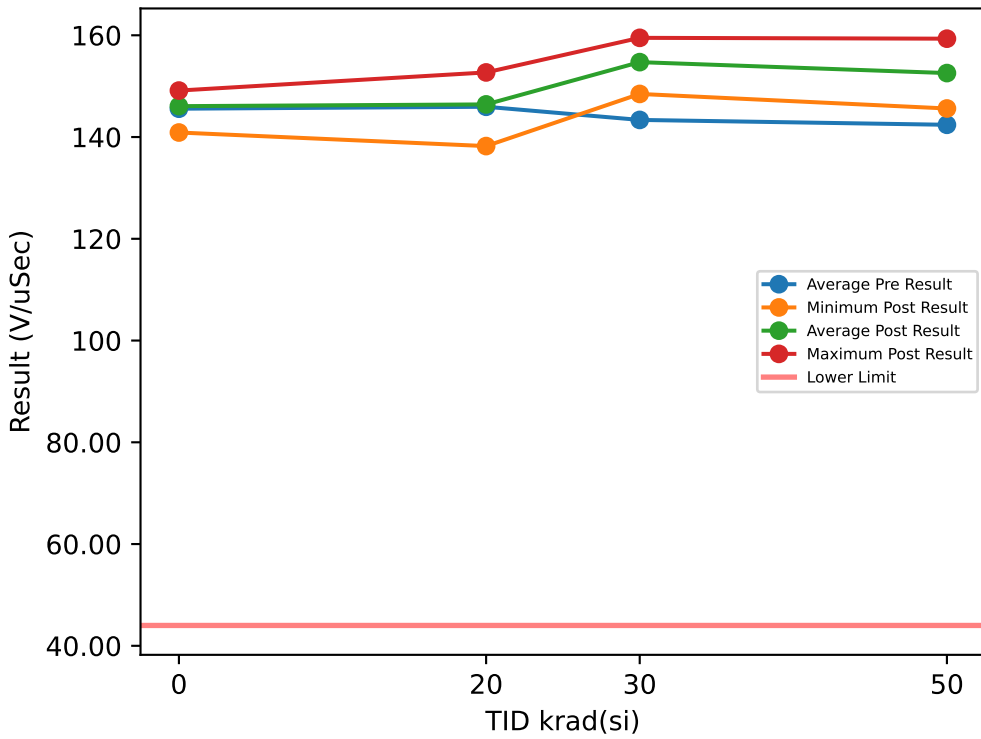| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 147.82 | 151.13 | 3.3081 |
| 2 | 20 | Bias | 145.64 | 150.1 | 4.4617 |
| 3 | 20 | Bias | 144.92 | 149.72 | 4.8017 |
| 4 | 20 | Bias | 149.26 | 155.14 | 5.8842 |
| 5 | 20 | Bias | 147.68 | 150.51 | 2.8331 |
| 6 | 20 | Unbiased | 148.11 | 150.15 | 2.0378 |
| 7 | 20 | Unbiased | 147.19 | 149.21 | 2.0234 |
| 8 | 20 | Unbiased | 148.9 | 149.27 | 0.3738 |
| 9 | 20 | Unbiased | 149.85 | 150.21 | 0.3632 |
| 10 | 20 | Unbiased | 150.48 | 150.3 | -0.1879 |
| 11 | 30 | Bias | 146.63 | 154.33 | 7.6984 |
| 12 | 30 | Bias | 145.84 | 158.54 | 12.697 |
| 13 | 30 | Bias | 149.66 | 155.27 | 5.607 |
| 14 | 30 | Bias | 145.57 | 156.32 | 10.742 |
| 15 | 30 | Bias | 148.49 | 158.55 | 10.055 |
| 16 | 30 | Unbiased | 149.13 | 148.93 | -0.1933 |
| 17 | 30 | Unbiased | 149.21 | 161.51 | 12.305 |
| 18 | 30 | Unbiased | 145.29 | 161.19 | 15.894 |
| 19 | 30 | Unbiased | 146.1 | 154.53 | 8.4345 |
| 20 | 30 | Unbiased | 145.46 | 158.33 | 12.866 |
| 21 | 50 | Bias | 146.44 | 159.32 | 12.879 |
| 22 | 50 | Bias | 146.35 | 155.9 | 9.5502 |
| 23 | 50 | Bias | 149.63 | 156.51 | 6.885 |
| 24 | 50 | Bias | 149.38 | 159.46 | 10.087 |
| 25 | 50 | Bias | 144.99 | 151.49 | 6.5005 |
| 26 | 50 | Unbiased | 146.86 | 150.44 | 3.586 |
| 27 | 50 | Unbiased | 146.75 | 149.32 | 2.5672 |
| 28 | 50 | Unbiased | 149.94 | 151.99 | 2.0482 |
| 29 | 50 | Unbiased | 146.28 | 147.43 | 1.1556 |
| 30 | 50 | Unbiased | 149.06 | 151.58 | 2.5279 |
| 31 | 0 | Correlation | 150.27 | 147.74 | -2.5268 |
| 32 | 0 | Correlation | 147.8 | 149.86 | 2.0571 |
| 33 | 0 | Correlation | 146.42 | 148.04 | 1.6195 |
| 34 | 0 | Correlation | 147.8 | 146.73 | -1.0647 |

## Test Statistics (V/uSec)
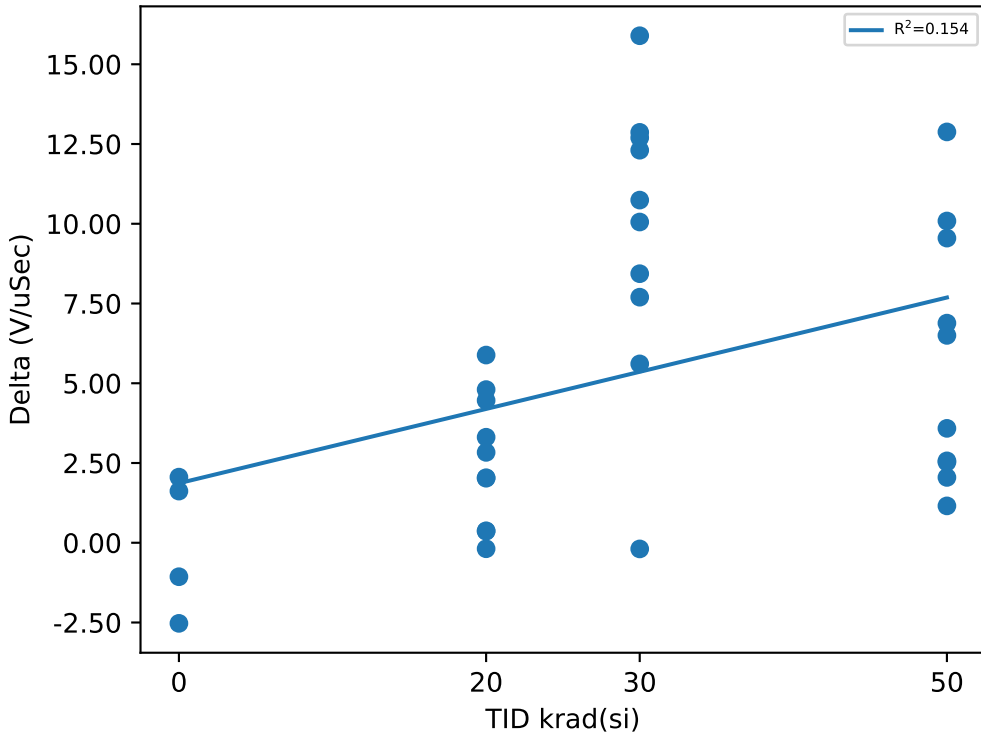
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 146.42 | 148.07 | 150.27 | 1.6015 | 146.73 | 148.09 | 149.86 | 1.3025 | -2.5268 | 0.021275 | 2.0571 | 2.1887 |
| 20 | 144.92 | 147.99 | 150.48 | 1.7584 | 149.21 | 150.58 | 155.14 | 1.7008 | -0.1879 | 2.5899 | 5.8842 | 2.0557 |
| 30 | 145.29 | 147.14 | 149.66 | 1.7675 | 148.93 | 156.75 | 161.51 | 3.7348 | -0.1933 | 9.6106 | 15.894 | 4.5403 |
| 50 | 144.99 | 147.57 | 149.94 | 1.75 | 147.43 | 153.35 | 159.46 | 4.1862 | 1.1556 | 5.7787 | 12.879 | 4.0266 |
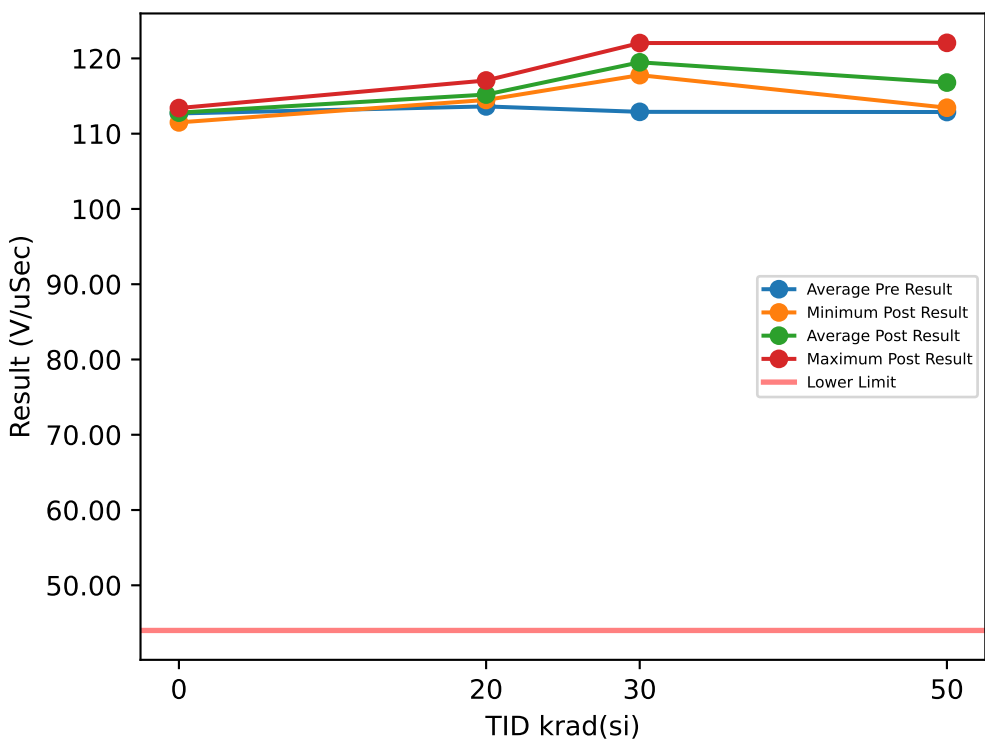
# Device Test: 16.23  PWRGD_SLEW_RATE_FALL(_LEVEL|FALL/PWRGD/1.6/14/0/0/0/@PWRGD_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

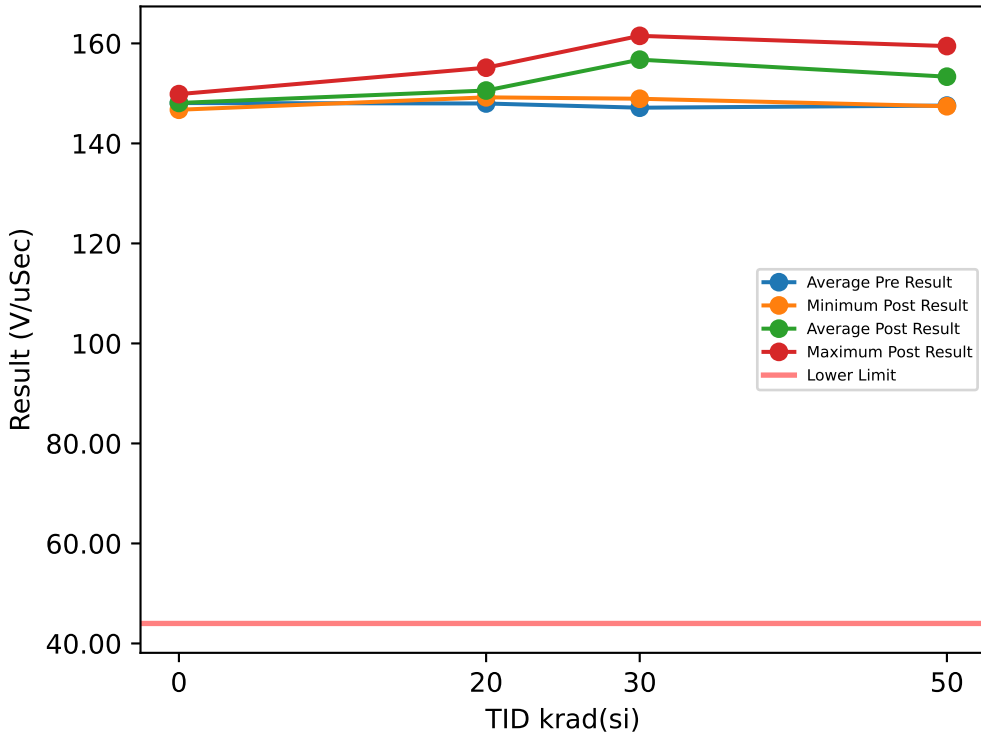| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 113.01 | 115.96 | 2.9473 |
| 2 | 20 | Bias | 112.77 | 114.48 | 1.7081 |
| 3 | 20 | Bias | 111.99 | 114.61 | 2.6204 |
| 4 | 20 | Bias | 114.78 | 117.07 | 2.2869 |
| 5 | 20 | Bias | 112.9 | 114.83 | 1.9211 |
| 6 | 20 | Unbiased | 113.75 | 115.58 | 1.8295 |
| 7 | 20 | Unbiased | 113.73 | 114.55 | 0.8166 |
| 8 | 20 | Unbiased | 113.64 | 114.58 | 0.9412 |
| 9 | 20 | Unbiased | 114.84 | 115.23 | 0.3924 |
| 10 | 20 | Unbiased | 114.79 | 115.07 | 0.2824 |
| 11 | 30 | Bias | 113.78 | 119.81 | 6.0303 |
| 12 | 30 | Bias | 111.28 | 122.04 | 10.758 |
| 13 | 30 | Bias | 112.09 | 119.56 | 7.4715 |
| 14 | 30 | Bias | 113.02 | 119.63 | 6.6035 |
| 15 | 30 | Bias | 112.98 | 120.71 | 7.7369 |
| 16 | 30 | Unbiased | 114.73 | 117.82 | 3.0951 |
| 17 | 30 | Unbiased | 114.6 | 119.8 | 5.2 |
| 18 | 30 | Unbiased | 111.97 | 119.78 | 7.8124 |
| 19 | 30 | Unbiased | 112.14 | 117.78 | 5.6352 |
| 20 | 30 | Unbiased | 112.41 | 117.9 | 5.4887 |
| 21 | 50 | Bias | 113.08 | 119.49 | 6.412 |
| 22 | 50 | Bias | 112.57 | 118.89 | 6.3191 |
| 23 | 50 | Bias | 113.15 | 119.33 | 6.1763 |
| 24 | 50 | Bias | 113.05 | 122.07 | 9.0156 |
| 25 | 50 | Bias | 114.09 | 115.96 | 1.872 |
| 26 | 50 | Unbiased | 113.58 | 115.15 | 1.5683 |
| 27 | 50 | Unbiased | 112.4 | 114.55 | 2.154 |
| 28 | 50 | Unbiased | 111.89 | 114.62 | 2.7221 |
| 29 | 50 | Unbiased | 111.82 | 113.45 | 1.6286 |
| 30 | 50 | Unbiased | 113.15 | 114.41 | 1.2637 |
| 31 | 0 | Correlation | 112.73 | 113.09 | 0.3542 |
| 32 | 0 | Correlation | 112.84 | 113.19 | 0.3559 |
| 33 | 0 | Correlation | 112.89 | 113.4 | 0.5094 |
| 34 | 0 | Correlation | 112.28 | 111.5 | -0.7768 |

## Test Statistics (V/uSec)
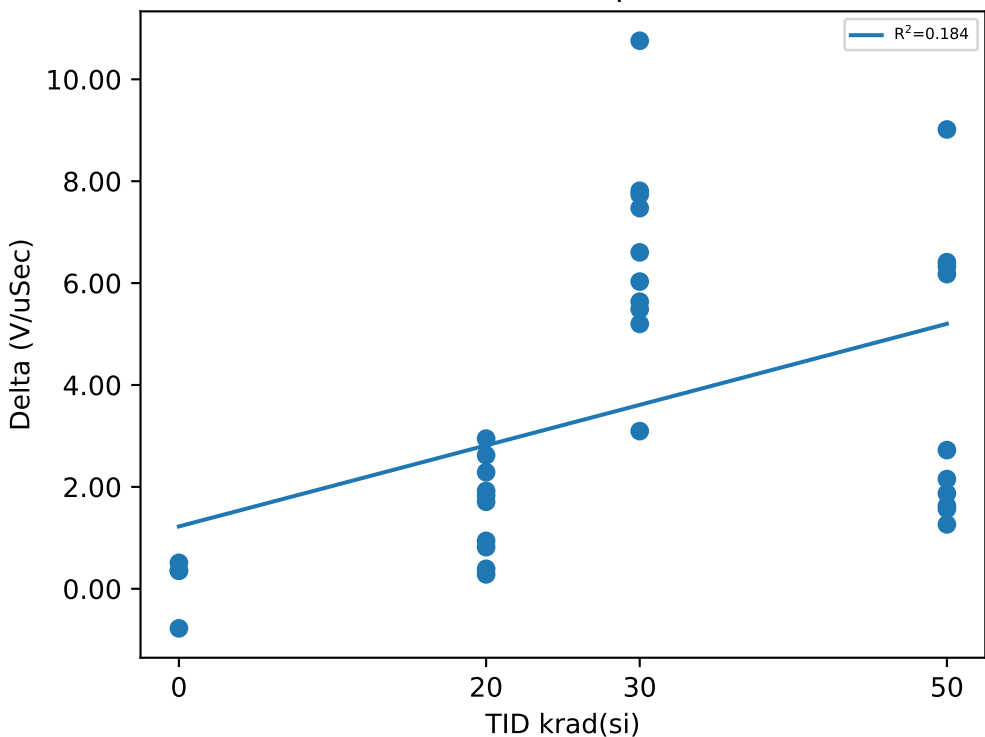
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 112.28 | 112.69 | 112.89 | 0.2806 | 111.5 | 112.8 | 113.4 | 0.87415 | -0.7768 | 0.11068 | 0.5094 | 0.59611 |
| 20 | 111.99 | 113.62 | 114.84 | 0.97207 | 114.48 | 115.2 | 117.07 | 0.82011 | 0.2824 | 1.5746 | 2.9473 | 0.92684 |
| 30 | 111.28 | 112.9 | 114.73 | 1.1529 | 117.78 | 119.48 | 122.04 | 1.3571 | 3.0951 | 6.5831 | 10.758 | 2.0423 |
| 50 | 111.82 | 112.88 | 114.09 | 0.71406 | 113.45 | 116.79 | 122.07 | 2.9044 | 1.2637 | 3.9132 | 9.0156 | 2.781 |

## TID vs Result Stats
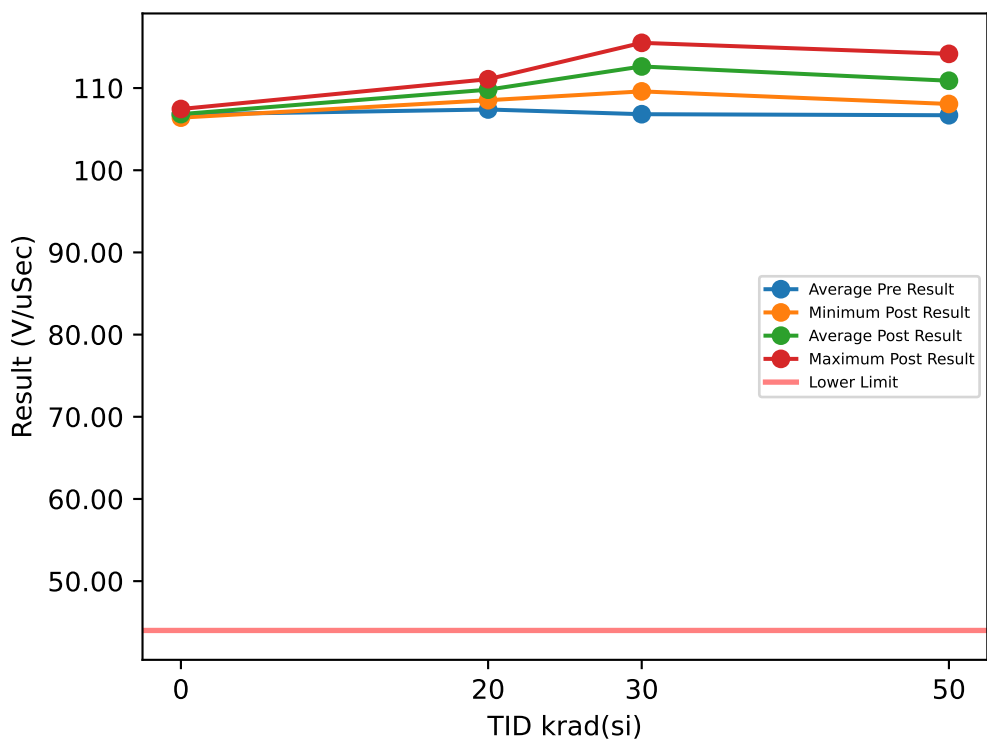


## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 107.17 | 110.73 | 3.5638 |
| 2 | 20 | Bias | 107.09 | 110.14 | 3.0578 |
| 3 | 20 | Bias | 106.33 | 108.93 | 2.6041 |
| 4 | 20 | Bias | 106.88 | 111.08 | 4.1975 |
| 5 | 20 | Bias | 107.92 | 109.6 | 1.681 |
| 6 | 20 | Unbiased | 108.06 | 109.28 | 1.2175 |
| 7 | 20 | Unbiased | 108.31 | 110.45 | 2.1423 |
| 8 | 20 | Unbiased | 106.57 | 108.98 | 2.4147 |
| 9 | 20 | Unbiased | 108.79 | 110.32 | 1.5279 |
| 10 | 20 | Unbiased | 106.81 | 108.52 | 1.7126 |
| 11 | 30 | Bias | 107.03 | 114.3 | 7.2627 |
| 12 | 30 | Bias | 105.38 | 111.81 | 6.4331 |
| 13 | 30 | Bias | 106.12 | 111.96 | 5.8356 |
| 14 | 30 | Bias | 107.05 | 112.96 | 5.9039 |
| 15 | 30 | Bias | 106.89 | 113.02 | 6.1296 |
| 16 | 30 | Unbiased | 108.74 | 111.76 | 3.0254 |
| 17 | 30 | Unbiased | 107.85 | 115.5 | 7.6573 |
| 18 | 30 | Unbiased | 106.77 | 114.38 | 7.616 |
| 19 | 30 | Unbiased | 106.57 | 111 | 4.4279 |
| 20 | 30 | Unbiased | 105.79 | 109.6 | 3.8094 |
| 21 | 50 | Bias | 106.54 | 114.16 | 7.6175 |
| 22 | 50 | Bias | 108.03 | 112.93 | 4.8929 |
| 23 | 50 | Bias | 107.1 | 114.09 | 6.9883 |
| 24 | 50 | Bias | 107.38 | 113.33 | 5.9468 |
| 25 | 50 | Bias | 106.42 | 110.96 | 4.5359 |
| 26 | 50 | Unbiased | 105.55 | 108.32 | 2.7704 |
| 27 | 50 | Unbiased | 106.19 | 108.06 | 1.8761 |
| 28 | 50 | Unbiased | 106.49 | 109.04 | 2.5516 |
| 29 | 50 | Unbiased | 105.95 | 109.18 | 3.2307 |
| 30 | 50 | Unbiased | 107.27 | 108.85 | 1.5779 |
| 31 | 0 | Correlation | 108.32 | 107.45 | -0.8724 |
| 32 | 0 | Correlation | 107.64 | 106.4 | -1.2344 |
| 33 | 0 | Correlation | 106.52 | 106.52 | -0.0018 |
| 34 | 0 | Correlation | 104.66 | 106.95 | 2.2846 |

## Test Statistics (V/uSec)
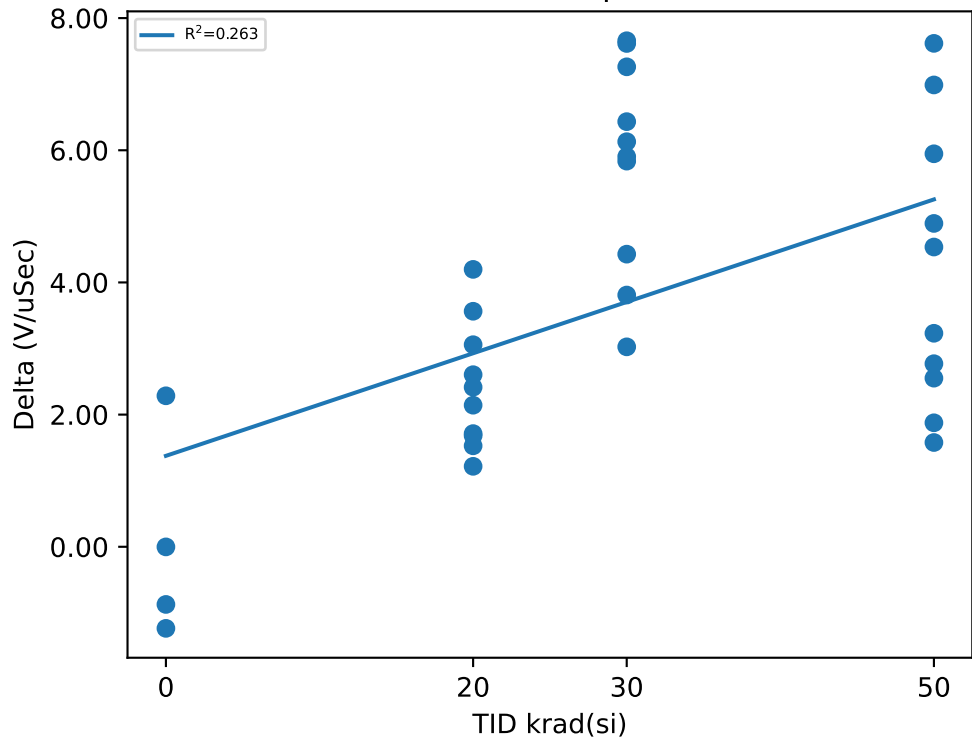
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 104.66 | 106.79 | 108.32 | 1.5992 | 106.4 | 106.83 | 107.45 | 0.47582 | -1.2344 | 0.044 | 2.2846 | 1.5808 |
| 20 | 106.33 | 107.39 | 108.79 | 0.82158 | 108.52 | 109.8 | 111.08 | 0.86083 | 1.2175 | 2.4119 | 4.1975 | 0.95878 |
| 30 | 105.38 | 106.82 | 108.74 | 0.97307 | 109.6 | 112.63 | 115.5 | 1.7674 | 3.0254 | 5.8101 | 7.6573 | 1.5969 |
| 50 | 105.55 | 106.69 | 108.03 | 0.74645 | 108.06 | 110.89 | 114.16 | 2.4966 | 1.5779 | 4.1988 | 7.6175 | 2.1363 |

# Device Test: 16.25  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN1/7/3/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 572.2 | 566.44 | -5.7639 |
| 2 | 20 | Bias | 564.42 | 569.54 | 5.1204 |
| 3 | 20 | Bias | 564.97 | 569.2 | 4.2304 |
| 4 | 20 | Bias | 570.31 | 561.63 | -8.6786 |
| 5 | 20 | Bias | 568.63 | 570.08 | 1.4478 |
| 6 | 20 | Unbiased | 565.75 | 569.28 | 3.5305 |
| 7 | 20 | Unbiased | 570.78 | 566.32 | -4.4545 |
| 8 | 20 | Unbiased | 564.69 | 566.12 | 1.4359 |
| 9 | 20 | Unbiased | 571.99 | 573.61 | 1.6201 |
| 10 | 20 | Unbiased | 569.97 | 571.94 | 1.9703 |
| 11 | 30 | Bias | 564.05 | 601.06 | 37.005 |
| 12 | 30 | Bias | 568.6 | 600.91 | 32.312 |
| 13 | 30 | Bias | 565.31 | 606.96 | 41.651 |
| 14 | 30 | Bias | 568.59 | 599.13 | 30.535 |
| 15 | 30 | Bias | 568.09 | 593.67 | 25.582 |
| 16 | 30 | Unbiased | 569.13 | 589.82 | 20.681 |
| 17 | 30 | Unbiased | 569.9 | 595.87 | 25.969 |
| 18 | 30 | Unbiased | 574.05 | 598.73 | 24.677 |
| 19 | 30 | Unbiased | 569.31 | 604.93 | 35.617 |
| 20 | 30 | Unbiased | 565.4 | 594.78 | 29.382 |
| 21 | 50 | Bias | 563.89 | 594.65 | 30.76 |
| 22 | 50 | Bias | 568.6 | 606.61 | 38.016 |
| 23 | 50 | Bias | 572.18 | 605.98 | 33.798 |
| 24 | 50 | Bias | 576.38 | 611.18 | 34.802 |
| 25 | 50 | Bias | 574.31 | 572.57 | -1.7418 |
| 26 | 50 | Unbiased | 564.79 | 568.71 | 3.9206 |
| 27 | 50 | Unbiased | 573.25 | 565.3 | -7.9497 |
| 28 | 50 | Unbiased | 568.3 | 562.5 | -5.7965 |
| 29 | 50 | Unbiased | 574.23 | 570.92 | -3.31 |
| 30 | 50 | Unbiased | 569.71 | 566.58 | -3.1334 |
| 31 | 0 | Correlation | 567.5 | 563.08 | -4.4221 |
| 32 | 0 | Correlation | 571.99 | 567.89 | -4.0985 |
| 33 | 0 | Correlation | 573.81 | 568.03 | -5.7743 |
| 34 | 0 | Correlation | 570.59 | 567.75 | -2.8377 |

## Test Statistics (V/uSec)
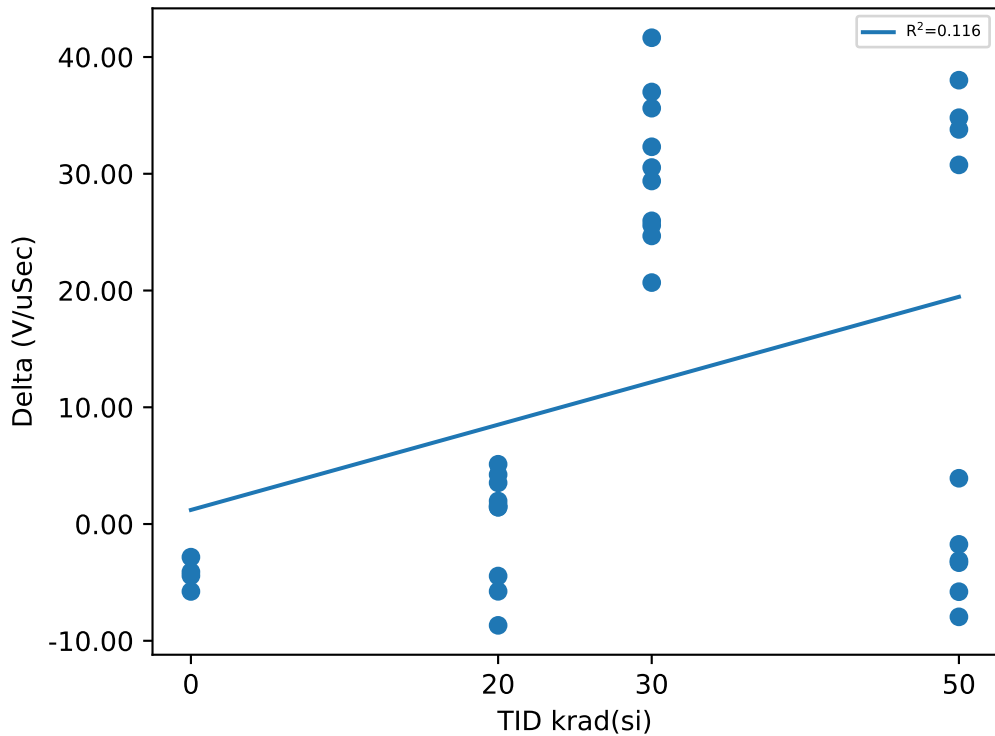
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 567.5 | 570.97 | 573.81 | 2.6638 | 563.08 | 566.69 | 568.03 | 2.4106 | -5.7743 | -4.2831 | -2.8377 | 1.2064 |
| 20 | 564.42 | 568.37 | 572.2 | 3.1186 | 561.63 | 568.42 | 573.61 | 3.4058 | -8.6786 | 0.04584 | 5.1204 | 4.662 |
| 30 | 564.05 | 568.24 | 574.05 | 2.8457 | 589.82 | 598.59 | 606.96 | 5.2194 | 20.681 | 30.341 | 41.651 | 6.4307 |
| 50 | 563.89 | 570.56 | 576.38 | 4.2013 | 562.5 | 582.5 | 611.18 | 19.65 | -7.9497 | 11.937 | 38.016 | 19.596 |
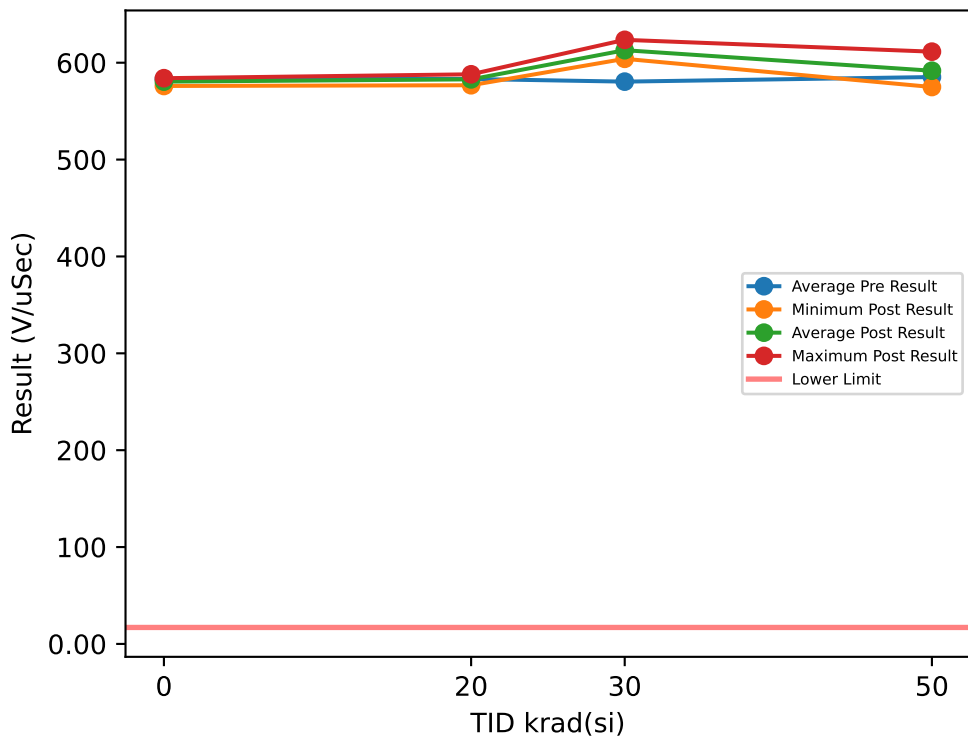
# Device Test: 16.26  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN2/7/3/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

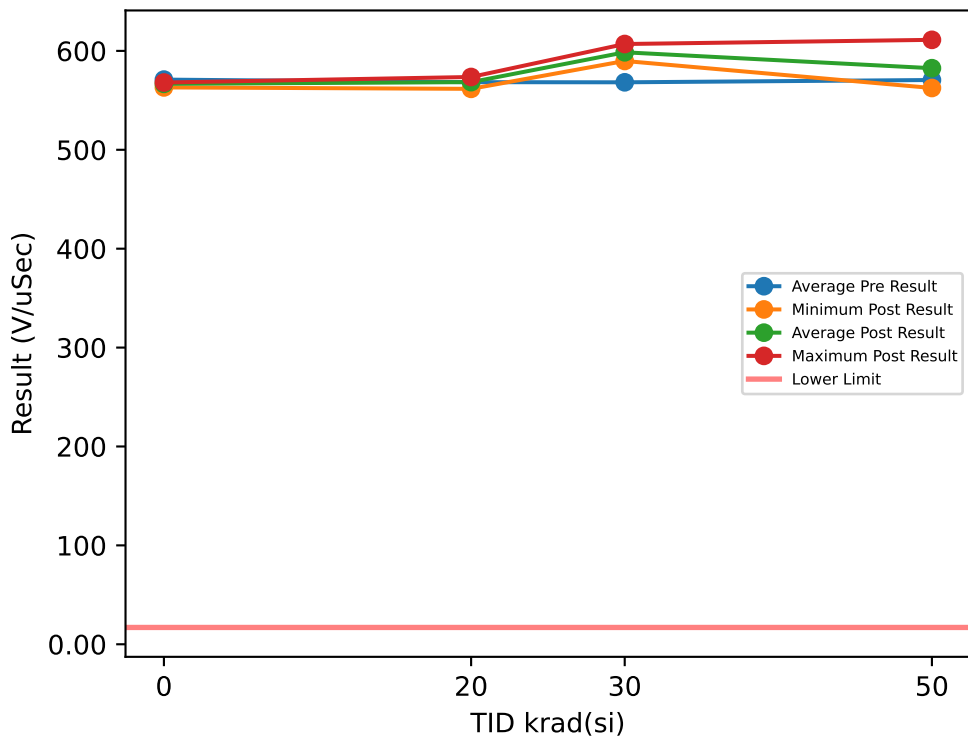| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 587.39 | 588.04 | 0.6494 |
| 2 | 20 | Bias | 580.82 | 584.47 | 3.6467 |
| 3 | 20 | Bias | 578.34 | 580.45 | 2.1062 |
| 4 | 20 | Bias | 585.76 | 584.76 | -1.0057 |
| 5 | 20 | Bias | 583.67 | 585.99 | 2.3128 |
| 6 | 20 | Unbiased | 584.87 | 586.53 | 1.6531 |
| 7 | 20 | Unbiased | 578.23 | 580.62 | 2.3964 |
| 8 | 20 | Unbiased | 579.75 | 580.53 | 0.7814 |
| 9 | 20 | Unbiased | 584.7 | 576.75 | -7.9549 |
| 10 | 20 | Unbiased | 588.56 | 580.01 | -8.5545 |
| 11 | 30 | Bias | 576.13 | 604.03 | 27.895 |
| 12 | 30 | Bias | 575.37 | 617.02 | 41.644 |
| 13 | 30 | Bias | 585.55 | 615.41 | 29.857 |
| 14 | 30 | Bias | 582.69 | 617.04 | 34.353 |
| 15 | 30 | Bias | 581.2 | 608.42 | 27.224 |
| 16 | 30 | Unbiased | 585.18 | 623.62 | 38.432 |
| 17 | 30 | Unbiased | 582.25 | 611.08 | 28.828 |
| 18 | 30 | Unbiased | 577.73 | 619.29 | 41.558 |
| 19 | 30 | Unbiased | 578.08 | 604.91 | 26.833 |
| 20 | 30 | Unbiased | 580.56 | 608.39 | 27.836 |
| 21 | 50 | Bias | 587.75 | 609.41 | 21.664 |
| 22 | 50 | Bias | 581.07 | 600.05 | 18.979 |
| 23 | 50 | Bias | 589.37 | 611.41 | 22.037 |
| 24 | 50 | Bias | 587.44 | 609.86 | 22.419 |
| 25 | 50 | Bias | 587.7 | 591.62 | 3.9175 |
| 26 | 50 | Unbiased | 579.21 | 576.15 | -3.0659 |
| 27 | 50 | Unbiased | 587.92 | 580.62 | -7.2993 |
| 28 | 50 | Unbiased | 579.35 | 574.92 | -4.4324 |
| 29 | 50 | Unbiased | 585.43 | 580.04 | -5.3837 |
| 30 | 50 | Unbiased | 586.91 | 583.22 | -3.6942 |
| 31 | 0 | Correlation | 582.04 | 579.74 | -2.2982 |
| 32 | 0 | Correlation | 579.4 | 584.02 | 4.6182 |
| 33 | 0 | Correlation | 585 | 582.24 | -2.7544 |
| 34 | 0 | Correlation | 586 | 575.99 | -10.012 |

## Test Statistics (V/uSec)
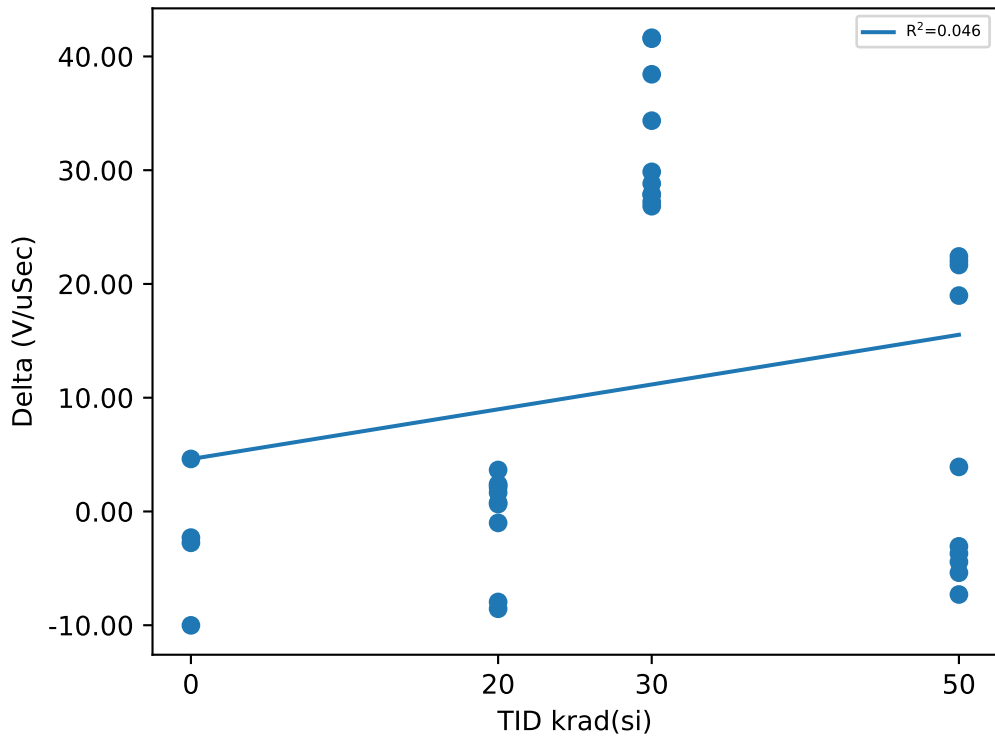
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 579.4 | 583.11 | 586 | 2.9895 | 575.99 | 580.5 | 584.02 | 3.4814 | -10.012 | -2.6115 | 4.6182 | 5.9763 |
| 20 | 578.23 | 583.21 | 588.56 | 3.7131 | 576.75 | 582.81 | 588.04 | 3.6215 | -8.5545 | -0.39691 | 3.6467 | 4.3268 |
| 30 | 575.37 | 580.48 | 585.55 | 3.5702 | 604.03 | 612.92 | 623.62 | 6.5177 | 26.833 | 32.446 | 41.644 | 6.0334 |
| 50 | 579.21 | 585.22 | 589.37 | 3.8387 | 574.92 | 591.73 | 611.41 | 14.741 | -7.2993 | 6.5141 | 22.419 | 13.054 |

# Device Test: 16.27  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN3/7/3/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 562.96 | 564.38 | 1.4167 |
| 2 | 20 | Bias | 567.92 | 566.74 | -1.1828 |
| 3 | 20 | Bias | 566.16 | 565.9 | -0.2618 |
| 4 | 20 | Bias | 564.5 | 568.75 | 4.248 |
| 5 | 20 | Bias | 565.23 | 566.88 | 1.6501 |
| 6 | 20 | Unbiased | 563.23 | 571.2 | 7.9745 |
| 7 | 20 | Unbiased | 563 | 566.04 | 3.0442 |
| 8 | 20 | Unbiased | 569.26 | 565.73 | -3.5294 |
| 9 | 20 | Unbiased | 573.43 | 565.27 | -8.1593 |
| 10 | 20 | Unbiased | 571.61 | 574.63 | 3.0243 |
| 11 | 30 | Bias | 565.62 | 597.59 | 31.976 |
| 12 | 30 | Bias | 564.19 | 608.04 | 43.849 |
| 13 | 30 | Bias | 558.23 | 608.62 | 50.389 |
| 14 | 30 | Bias | 565.86 | 601.25 | 35.393 |
| 15 | 30 | Bias | 565.49 | 605.01 | 39.513 |
| 16 | 30 | Unbiased | 565.22 | 607.27 | 42.052 |
| 17 | 30 | Unbiased | 566.56 | 597.73 | 31.167 |
| 18 | 30 | Unbiased | 570.32 | 594.66 | 24.343 |
| 19 | 30 | Unbiased | 562.16 | 594.49 | 32.328 |
| 20 | 30 | Unbiased | 562.28 | 588.56 | 26.288 |
| 21 | 50 | Bias | 572.21 | 589.84 | 17.628 |
| 22 | 50 | Bias | 564.38 | 600.77 | 36.388 |
| 23 | 50 | Bias | 568.96 | 603.89 | 34.93 |
| 24 | 50 | Bias | 567.51 | 594.53 | 27.013 |
| 25 | 50 | Bias | 577.51 | 574.86 | -2.6552 |
| 26 | 50 | Unbiased | 565.8 | 555.69 | -10.115 |
| 27 | 50 | Unbiased | 562.68 | 573.98 | 11.298 |
| 28 | 50 | Unbiased | 565.17 | 572.13 | 6.9631 |
| 29 | 50 | Unbiased | 563.63 | 565.84 | 2.2132 |
| 30 | 50 | Unbiased | 568.8 | 570.09 | 1.2889 |
| 31 | 0 | Correlation | 565.97 | 561.28 | -4.6969 |
| 32 | 0 | Correlation | 562.02 | 568.14 | 6.1235 |
| 33 | 0 | Correlation | 566.96 | 568.58 | 1.6244 |
| 34 | 0 | Correlation | 569.13 | 574.53 | 5.4006 |

## Test Statistics (V/uSec)
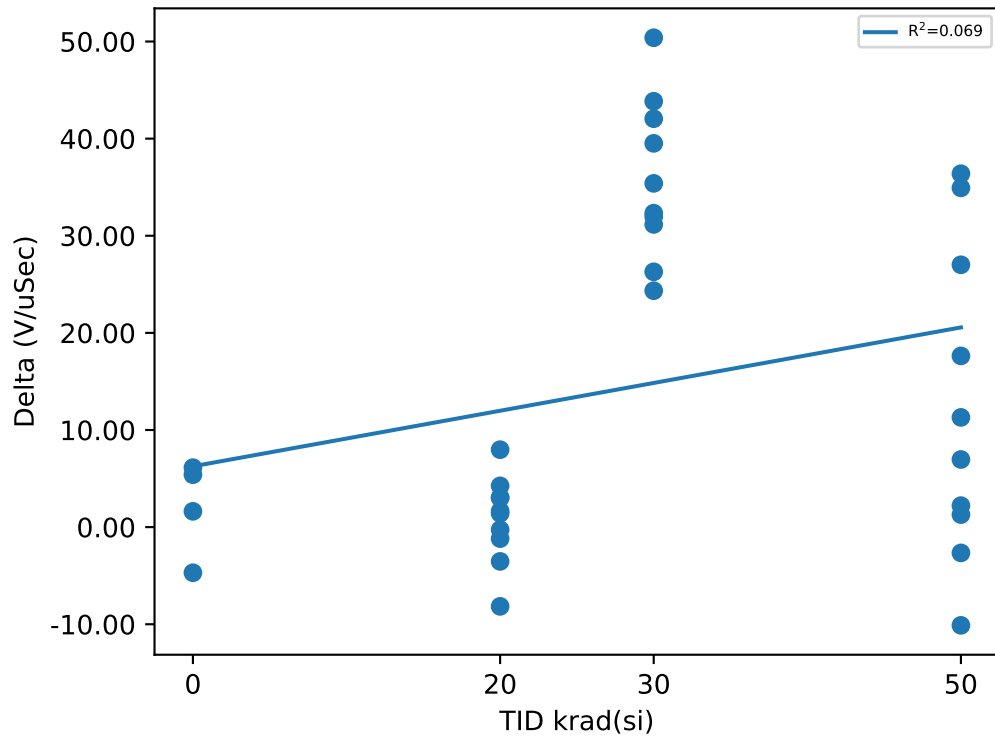
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 562.02 | 566.02 | 569.13 | 2.9747 | 561.28 | 568.13 | 574.53 | 5.4193 | -4.6969 | 2.1129 | 6.1235 | 4.9499 |
| 20 | 562.96 | 566.73 | 573.43 | 3.72 | 564.38 | 567.55 | 574.63 | 3.1551 | -8.1593 | 0.82245 | 7.9745 | 4.4537 |
| 30 | 558.23 | 564.59 | 570.32 | 3.2044 | 588.56 | 600.32 | 608.62 | 6.815 | 24.343 | 35.73 | 50.389 | 8.1684 |
| 50 | 562.68 | 567.67 | 577.51 | 4.499 | 555.69 | 580.16 | 603.89 | 16.069 | -10.115 | 12.495 | 36.388 | 16.039 |

# Device Test: 16.28 EN_SLEW_RATE_RISE(_LEVEL|RISE/EN4/7/3/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

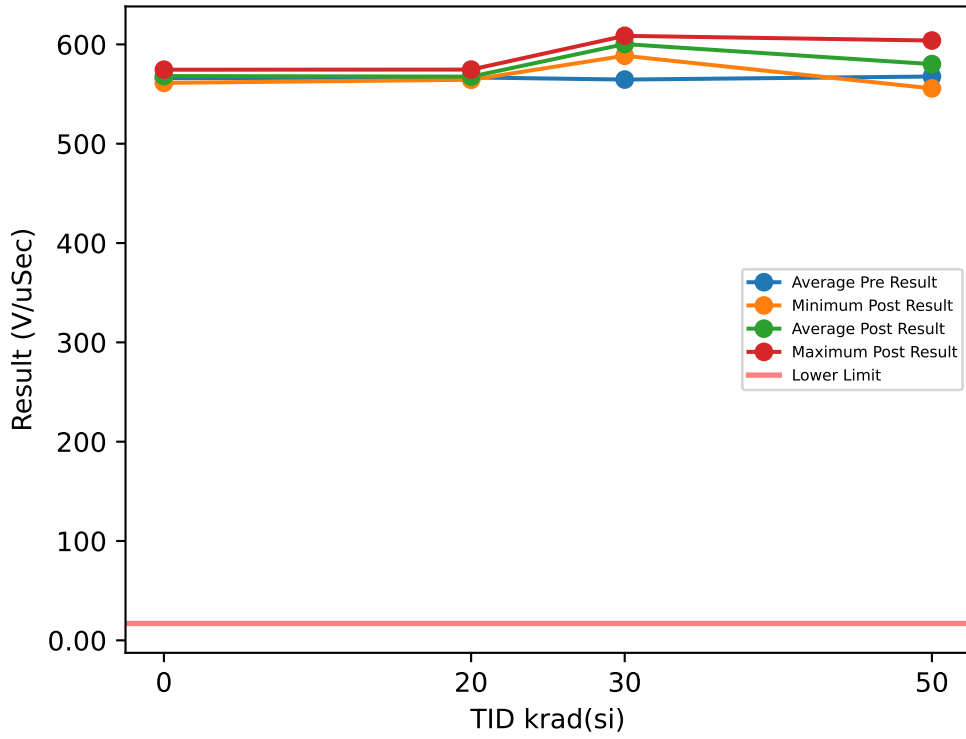| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 590.95 | 586.76 | -4.1926 |
| 2 | 20 | Bias | 588.99 | 586.72 | -2.2743 |
| 3 | 20 | Bias | 584.76 | 589.22 | 4.4575 |
| 4 | 20 | Bias | 588.59 | 590.76 | 2.1756 |
| 5 | 20 | Bias | 588.7 | 587.26 | -1.4412 |
| 6 | 20 | Unbiased | 587.65 | 591.27 | 3.62 |
| 7 | 20 | Unbiased | 591.96 | 589 | -2.9584 |
| 8 | 20 | Unbiased | 585.49 | 588.62 | 3.1328 |
| 9 | 20 | Unbiased | 584.85 | 586.13 | 1.2815 |
| 10 | 20 | Unbiased | 586.54 | 588.4 | 1.8598 |
| 11 | 30 | Bias | 587.88 | 621.61 | 33.728 |
| 12 | 30 | Bias | 589.73 | 619.73 | 29.998 |
| 13 | 30 | Bias | 585.99 | 614.31 | 28.318 |
| 14 | 30 | Bias | 586.74 | 607.47 | 20.727 |
| 15 | 30 | Bias | 588.73 | 611.37 | 22.638 |
| 16 | 30 | Unbiased | 589.37 | 608.24 | 18.872 |
| 17 | 30 | Unbiased | 588.81 | 614.31 | 25.501 |
| 18 | 30 | Unbiased | 584.47 | 619.67 | 35.207 |
| 19 | 30 | Unbiased | 586.64 | 615.81 | 29.173 |
| 20 | 30 | Unbiased | 587.63 | 617.1 | 29.465 |
| 21 | 50 | Bias | 582.53 | 607.47 | 24.933 |
| 22 | 50 | Bias | 587.69 | 617.59 | 29.897 |
| 23 | 50 | Bias | 586.72 | 611.89 | 25.171 |
| 24 | 50 | Bias | 586.41 | 624.04 | 37.628 |
| 25 | 50 | Bias | 597.63 | 595.7 | -1.9339 |
| 26 | 50 | Unbiased | 583.75 | 586.88 | 3.1279 |
| 27 | 50 | Unbiased | 591.24 | 586.91 | -4.3321 |
| 28 | 50 | Unbiased | 592.47 | 584.75 | -7.7121 |
| 29 | 50 | Unbiased | 590.64 | 583.52 | -7.1193 |
| 30 | 50 | Unbiased | 591.52 | 590.59 | -0.9374 |
| 31 | 0 | Correlation | 587.87 | 585.74 | -2.1279 |
| 32 | 0 | Correlation | 591.12 | 590.26 | -0.8602 |
| 33 | 0 | Correlation | 587.31 | 584.55 | -2.7553 |
| 34 | 0 | Correlation | 593.13 | 587.9 | -5.2334 |

## Test Statistics (V/uSec)
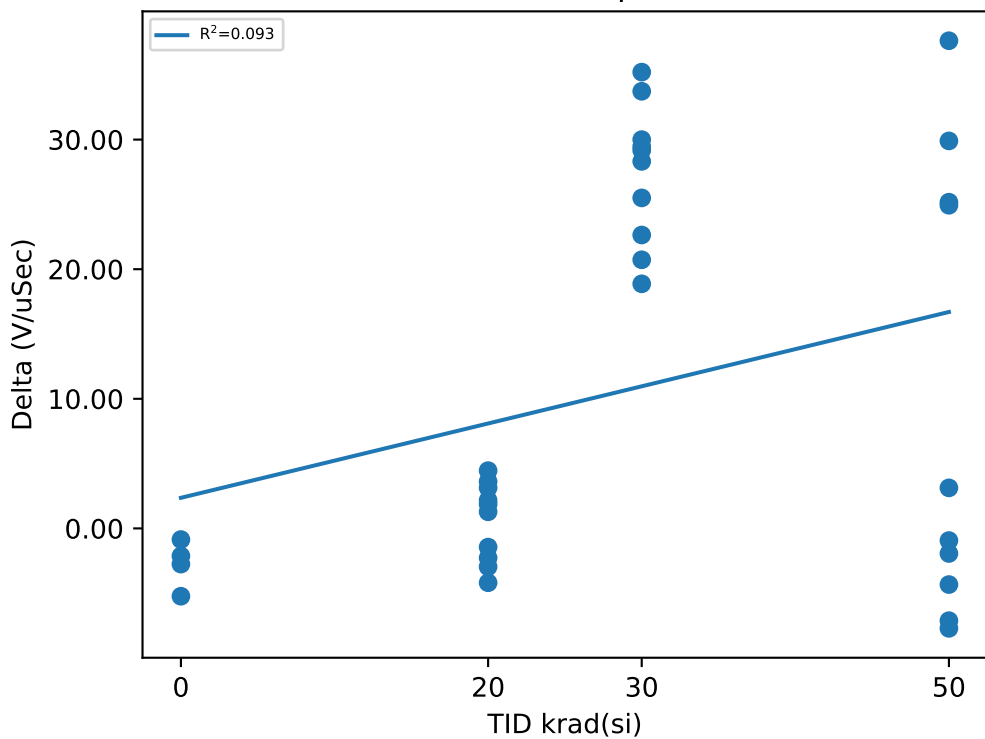
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 587.31 | 589.86 | 593.13 | 2.7549 | 584.55 | 587.11 | 590.26 | 2.5151 | -5.2334 | -2.7442 | -0.8602 | 1.8372 |
| 20 | 584.76 | 587.85 | 591.96 | 2.4708 | 586.13 | 588.41 | 591.27 | 1.7279 | -4.1926 | 0.56607 | 4.4575 | 3.0368 |
| 30 | 584.47 | 587.6 | 589.73 | 1.6522 | 607.47 | 614.96 | 621.61 | 4.8248 | 18.872 | 27.363 | 35.207 | 5.3698 |
| 50 | 582.53 | 589.06 | 597.63 | 4.5149 | 583.52 | 598.93 | 624.04 | 15.011 | -7.7121 | 9.8722 | 37.628 | 17.428 |
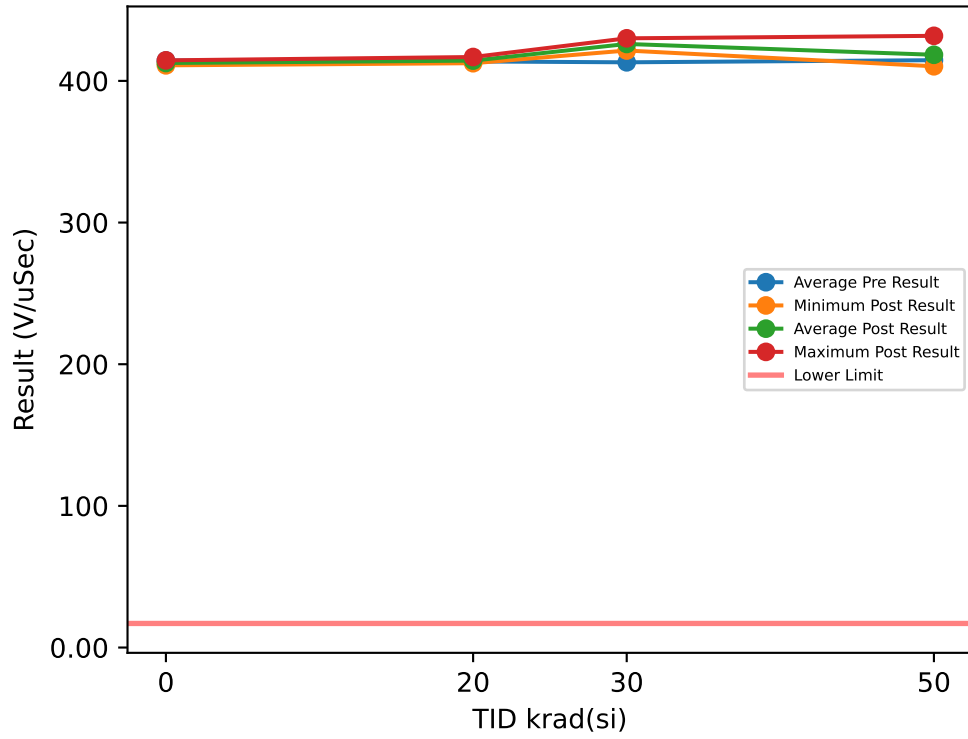
# Device Test: 16.29 PWRGD_SLEW_RATE_RISE(_LEVEL|RISE/PWRGD/7/3/0/0/0/@PWRGD_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 410.83 | 414.27 | 3.4347 |
| 2 | 20 | Bias | 412.12 | 413.72 | 1.5968 |
| 3 | 20 | Bias | 411.49 | 412.83 | 1.3339 |
| 4 | 20 | Bias | 415.56 | 416.86 | 1.2952 |
| 5 | 20 | Bias | 414.55 | 413.64 | -0.9073 |
| 6 | 20 | Unbiased | 413.92 | 416.47 | 2.549 |
| 7 | 20 | Unbiased | 415.71 | 413.64 | -2.0699 |
| 8 | 20 | Unbiased | 412.6 | 412.49 | -0.1164 |
| 9 | 20 | Unbiased | 415.16 | 413.07 | -2.0876 |
| 10 | 20 | Unbiased | 415.43 | 416.18 | 0.7557 |
| 11 | 30 | Bias | 412.46 | 430.06 | 17.604 |
| 12 | 30 | Bias | 414.31 | 422.07 | 7.76 |
| 13 | 30 | Bias | 411.98 | 429.96 | 17.979 |
| 14 | 30 | Bias | 413.18 | 426.14 | 12.962 |
| 15 | 30 | Bias | 412.05 | 421.44 | 9.3959 |
| 16 | 30 | Unbiased | 415.51 | 426 | 10.49 |
| 17 | 30 | Unbiased | 413.83 | 424.56 | 10.738 |
| 18 | 30 | Unbiased | 413.1 | 428.4 | 15.301 |
| 19 | 30 | Unbiased | 411.27 | 424.71 | 13.438 |
| 20 | 30 | Unbiased | 413.54 | 427.44 | 13.898 |
| 21 | 50 | Bias | 414.77 | 420.97 | 6.203 |
| 22 | 50 | Bias | 411.62 | 427.44 | 15.824 |
| 23 | 50 | Bias | 415.87 | 424.89 | 9.0215 |
| 24 | 50 | Bias | 413.68 | 431.81 | 18.129 |
| 25 | 50 | Bias | 419.2 | 418.26 | -0.9307 |
| 26 | 50 | Unbiased | 411.12 | 410.32 | -0.7977 |
| 27 | 50 | Unbiased | 415.09 | 414.47 | -0.6226 |
| 28 | 50 | Unbiased | 413.83 | 410.34 | -3.4896 |
| 29 | 50 | Unbiased | 415.43 | 412.76 | -2.6645 |
| 30 | 50 | Unbiased | 415.6 | 413.12 | -2.4742 |
| 31 | 0 | Correlation | 413.67 | 412.97 | -0.6991 |
| 32 | 0 | Correlation | 412.12 | 410.99 | -1.135 |
| 33 | 0 | Correlation | 415.98 | 414.5 | -1.4743 |
| 34 | 0 | Correlation | 415.88 | 412.05 | -3.8287 |

## Test Statistics (V/uSec)
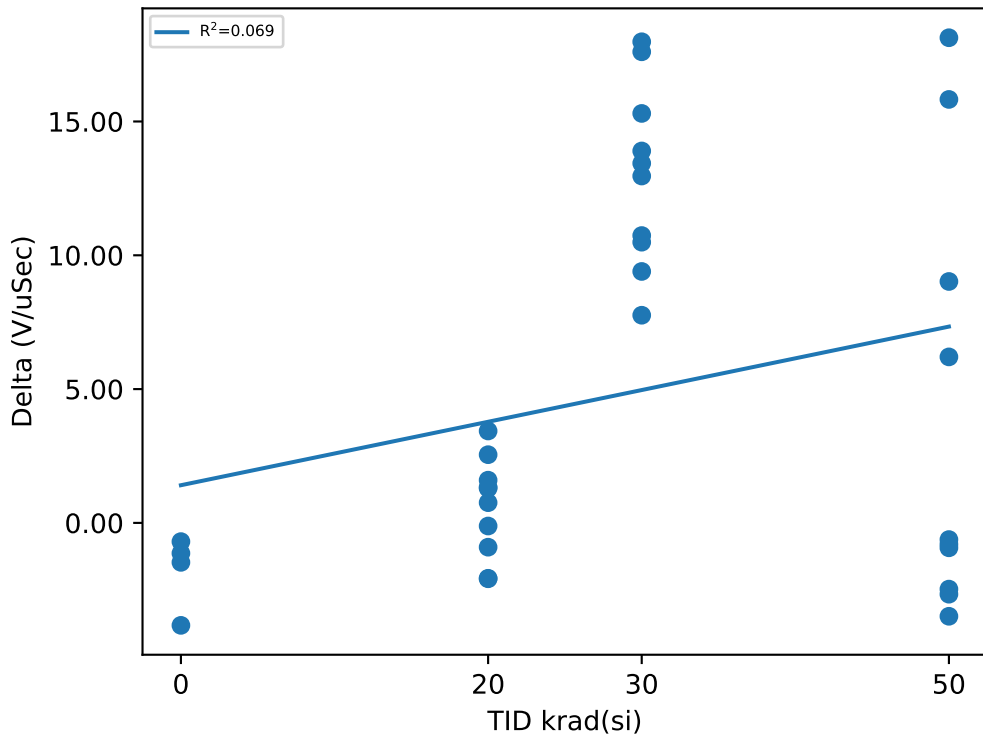
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 412.12 | 414.41 | 415.98 | 1.8616 | 410.99 | 412.63 | 414.5 | 1.4907 | -3.8287 | -1.7843 | -0.6991 | 1.3994 |
| 20 | 410.83 | 413.74 | 415.71 | 1.8305 | 412.49 | 414.32 | 416.86 | 1.5981 | -2.0876 | 0.57841 | 3.4347 | 1.8561 |
| 30 | 411.27 | 413.12 | 415.51 | 1.2523 | 421.44 | 426.08 | 430.06 | 2.9806 | 7.76 | 12.957 | 17.979 | 3.4015 |
| 50 | 411.12 | 414.62 | 419.2 | 2.2884 | 410.32 | 418.44 | 431.81 | 7.5684 | -3.4896 | 3.8199 | 18.129 | 8.0299 |

# Device Test: 16.3   EN_SLEW_RATE_RISE(_LEVEL|RISE/EN3/1.6/3/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

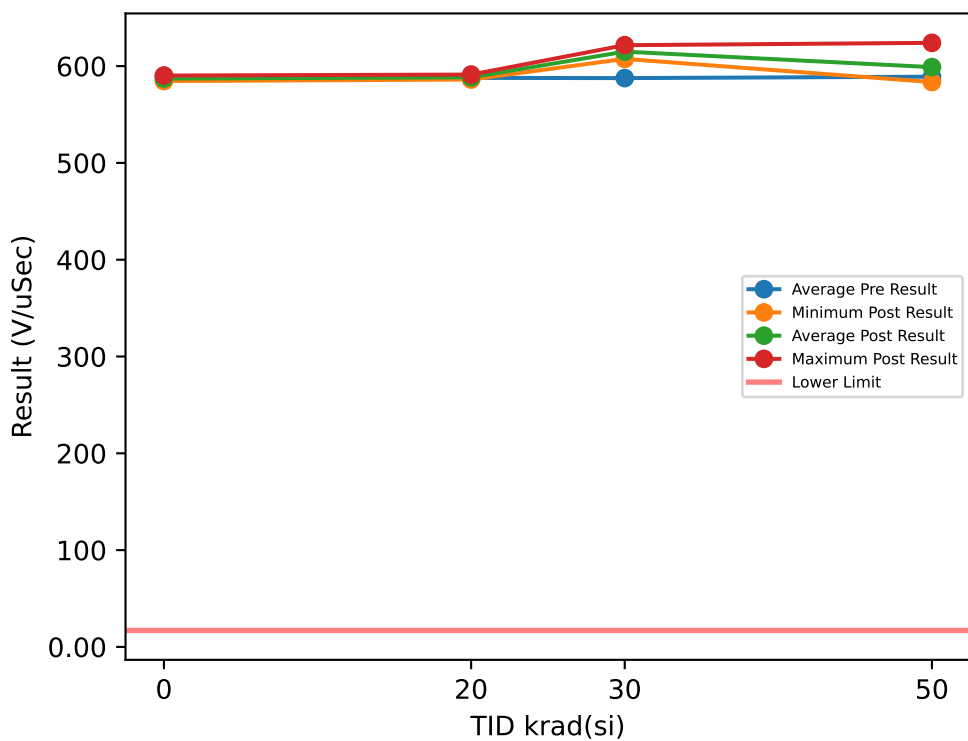| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 37.747 | 37.887 | 0.14 |
| 2 | 20 | Bias | 37.268 | 36.811 | -0.4574 |
| 3 | 20 | Bias | 37.07 | 38.052 | 0.9817 |
| 4 | 20 | Bias | 39.87 | 37.26 | -2.6106 |
| 5 | 20 | Bias | 38.132 | 37.706 | -0.4253 |
| 6 | 20 | Unbiased | 40.425 | 37.5 | -2.9249 |
| 7 | 20 | Unbiased | 39.666 | 37.529 | -2.1369 |
| 8 | 20 | Unbiased | 39.704 | 37.35 | -2.3542 |
| 9 | 20 | Unbiased | 37.595 | 36.887 | -0.7079 |
| 10 | 20 | Unbiased | 38.372 | 39.804 | 1.4325 |
| 11 | 30 | Bias | 36.944 | 36.223 | -0.721 |
| 12 | 30 | Bias | 39.948 | 37.934 | -2.014 |
| 13 | 30 | Bias | 37.818 | 38.861 | 1.0426 |
| 14 | 30 | Bias | 38.211 | 38.01 | -0.2013 |
| 15 | 30 | Bias | 38.075 | 38.097 | 0.0214 |
| 16 | 30 | Unbiased | 38.831 | 35.592 | -3.2394 |
| 17 | 30 | Unbiased | 38.717 | 37.805 | -0.9123 |
| 18 | 30 | Unbiased | 38.153 | 37.92 | -0.2335 |
| 19 | 30 | Unbiased | 39.196 | 36.431 | -2.7656 |
| 20 | 30 | Unbiased | 40.322 | 37.168 | -3.1542 |
| 21 | 50 | Bias | 38.898 | 36.901 | -1.9962 |
| 22 | 50 | Bias | 38.961 | 37.642 | -1.3192 |
| 23 | 50 | Bias | 37.914 | 39.156 | 1.242 |
| 24 | 50 | Bias | 37.577 | 36.746 | -0.8313 |
| 25 | 50 | Bias | 39.833 | 36.996 | -2.8372 |
| 26 | 50 | Unbiased | 37.217 | 36.253 | -0.9647 |
| 27 | 50 | Unbiased | 38.136 | 37.589 | -0.5472 |
| 28 | 50 | Unbiased | 38.311 | 36.335 | -1.9755 |
| 29 | 50 | Unbiased | 37.937 | 36.15 | -1.7869 |
| 30 | 50 | Unbiased | 38.22 | 36.48 | -1.7404 |
| 31 | 0 | Correlation | 38.497 | 37.031 | -1.466 |
| 32 | 0 | Correlation | 39.743 | 38.511 | -1.2315 |
| 33 | 0 | Correlation | 38.947 | 37.703 | -1.2438 |
| 34 | 0 | Correlation | 38.184 | 37.354 | -0.8297 |

## Test Statistics (V/uSec)
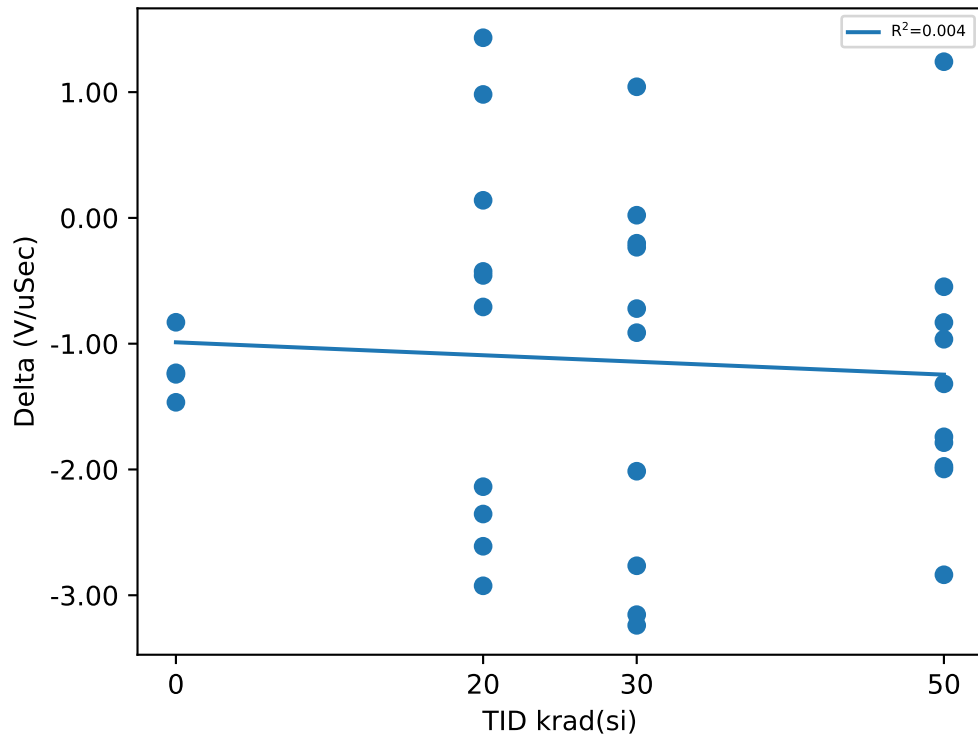
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 38.184 | 38.842 | 39.743 | 0.67694 | 37.031 | 37.65 | 38.511 | 0.63652 | -1.466 | -1.1928 | -0.8297 | 0.26494 |
| 20 | 37.07 | 38.585 | 40.425 | 1.221 | 36.811 | 37.679 | 39.804 | 0.84452 | -2.9249 | -0.9063 | 1.4325 | 1.5345 |
| 30 | 36.944 | 38.622 | 40.322 | 1.0101 | 35.592 | 37.404 | 38.861 | 1.0198 | -3.2394 | -1.2177 | 1.0426 | 1.4852 |
| 50 | 37.217 | 38.301 | 39.833 | 0.75669 | 36.15 | 37.025 | 39.156 | 0.91097 | -2.8372 | -1.2757 | 1.242 | 1.1101 |

## TID vs Result Stats
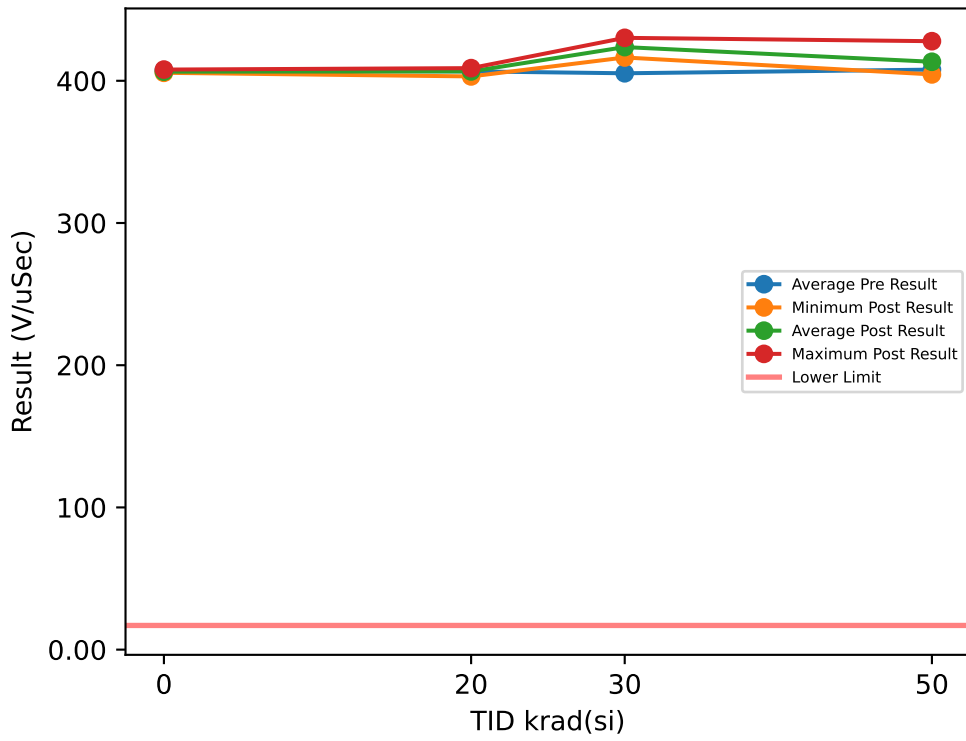


## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 405.05 | 405.6 | 0.546 |
| 2 | 20 | Bias | 404.25 | 405.3 | 1.0513 |
| 3 | 20 | Bias | 405.72 | 405.05 | -0.6675 |
| 4 | 20 | Bias | 408.02 | 408.9 | 0.8787 |
| 5 | 20 | Bias | 408.84 | 407.69 | -1.1537 |
| 6 | 20 | Unbiased | 407.67 | 407.67 | -0.0065 |
| 7 | 20 | Unbiased | 407.26 | 408.04 | 0.7724 |
| 8 | 20 | Unbiased | 403.81 | 403.07 | -0.7372 |
| 9 | 20 | Unbiased | 405.64 | 407.76 | 2.1196 |
| 10 | 20 | Unbiased | 409.98 | 406.8 | -3.1801 |
| 11 | 30 | Bias | 401.77 | 426.03 | 24.258 |
| 12 | 30 | Bias | 404.92 | 425.99 | 21.075 |
| 13 | 30 | Bias | 404.28 | 425.51 | 21.231 |
| 14 | 30 | Bias | 405.04 | 424.56 | 19.515 |
| 15 | 30 | Bias | 407.22 | 421.35 | 14.127 |
| 16 | 30 | Unbiased | 405.67 | 430.2 | 24.529 |
| 17 | 30 | Unbiased | 405.71 | 424.79 | 19.081 |
| 18 | 30 | Unbiased | 405.39 | 420.14 | 14.746 |
| 19 | 30 | Unbiased | 404.36 | 421.96 | 17.597 |
| 20 | 30 | Unbiased | 408.45 | 416.39 | 7.9425 |
| 21 | 50 | Bias | 407.59 | 422.59 | 15.002 |
| 22 | 50 | Bias | 406.26 | 423.9 | 17.64 |
| 23 | 50 | Bias | 409.66 | 422.64 | 12.978 |
| 24 | 50 | Bias | 406.88 | 427.84 | 20.961 |
| 25 | 50 | Bias | 409.95 | 408.57 | -1.3741 |
| 26 | 50 | Unbiased | 405.37 | 404.67 | -0.7005 |
| 27 | 50 | Unbiased | 409.83 | 407.99 | -1.8374 |
| 28 | 50 | Unbiased | 407.14 | 405.14 | -1.9978 |
| 29 | 50 | Unbiased | 408.06 | 405.93 | -2.129 |
| 30 | 50 | Unbiased | 407.84 | 404.49 | -3.352 |
| 31 | 0 | Correlation | 407 | 405.61 | -1.3917 |
| 32 | 0 | Correlation | 406.32 | 406.1 | -0.2214 |
| 33 | 0 | Correlation | 407.89 | 407.89 | -0.002 |
| 34 | 0 | Correlation | 408.29 | 406.05 | -2.2328 |

## Test Statistics (V/uSec)
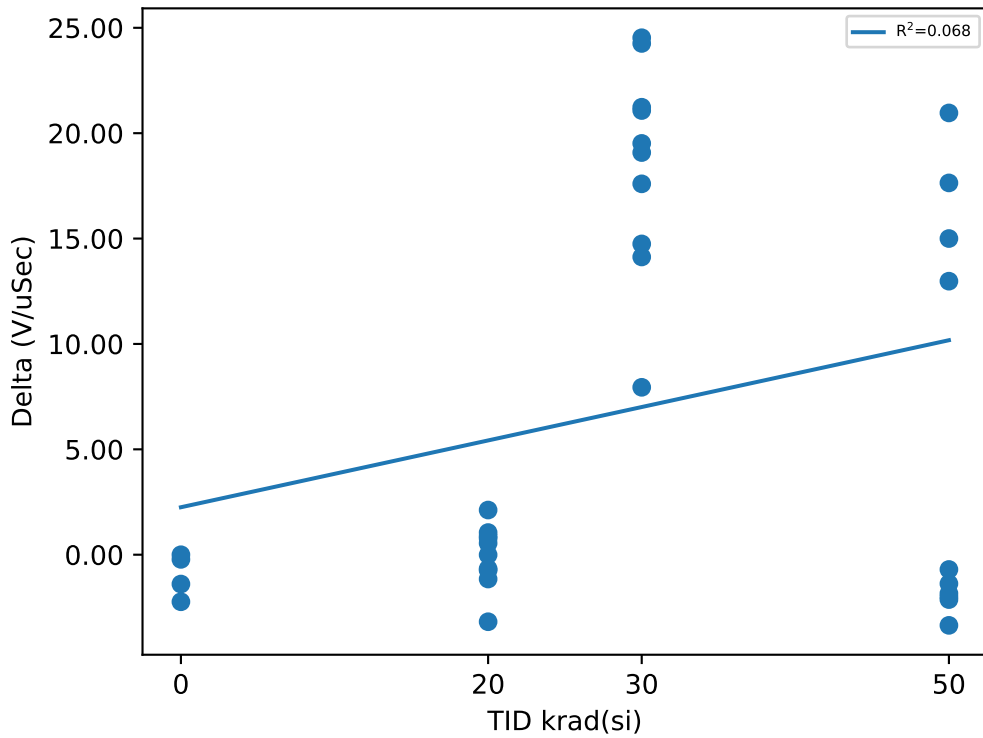
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 406.32 | 407.38 | 408.29 | 0.88281 | 405.61 | 406.41 | 407.89 | 1.0084 | -2.2328 | -0.96197 | -0.002 | 1.044 |
| 20 | 403.81 | 406.62 | 409.98 | 2.0404 | 403.07 | 406.59 | 408.9 | 1.7827 | -3.1801 | -0.0377 | 2.1196 | 1.4789 |
| 30 | 401.77 | 405.28 | 408.45 | 1.7788 | 416.39 | 423.69 | 430.2 | 3.8425 | 7.9425 | 18.41 | 24.529 | 5.0593 |
| 50 | 405.37 | 407.86 | 409.95 | 1.5565 | 404.49 | 413.38 | 427.84 | 9.5504 | -3.352 | 5.519 | 20.961 | 9.8033 |

# Device Test: 16.31  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN1/7/3/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats

- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit

## TID vs Post - Pre Exposure Delta

R²=0.131

## Test Results (Lower Limit = 44.0 (V/uSec))

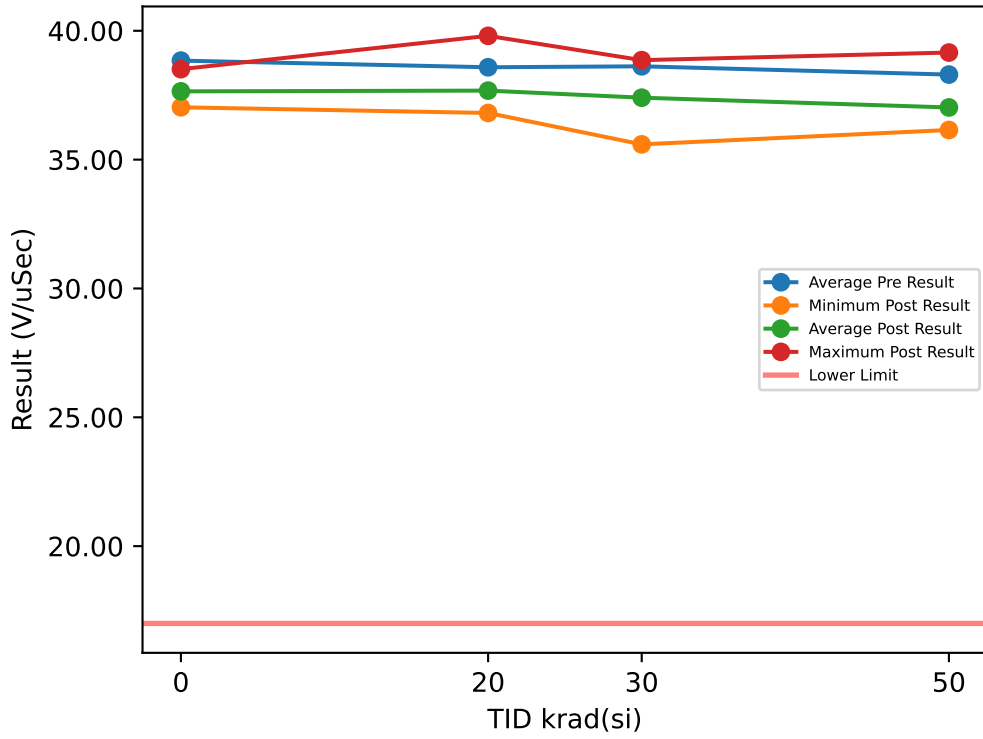| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 189.19 | 191.59 | 2.4001 |
| 2 | 20 | Bias | 188.87 | 192.22 | 3.3535 |
| 3 | 20 | Bias | 187.57 | 189.48 | 1.9079 |
| 4 | 20 | Bias | 189.49 | 192.35 | 2.8651 |
| 5 | 20 | Bias | 187.41 | 190.06 | 2.6461 |
| 6 | 20 | Unbiased | 188.06 | 190.84 | 2.7808 |
| 7 | 20 | Unbiased | 189.05 | 191.06 | 2.0023 |
| 8 | 20 | Unbiased | 190.21 | 193.03 | 2.8233 |
| 9 | 20 | Unbiased | 188.14 | 189.38 | 1.2435 |
| 10 | 20 | Unbiased | 186.64 | 190.37 | 3.7305 |
| 11 | 30 | Bias | 187.97 | 189.18 | 1.2086 |
| 12 | 30 | Bias | 183.87 | 191.27 | 7.4015 |
| 13 | 30 | Bias | 186.04 | 186.2 | 0.1657 |
| 14 | 30 | Bias | 187.09 | 189.6 | 2.5152 |
| 15 | 30 | Bias | 180.96 | 192.53 | 11.565 |
| 16 | 30 | Unbiased | 193.25 | 186.03 | -7.2125 |
| 17 | 30 | Unbiased | 186.85 | 197.52 | 10.676 |
| 18 | 30 | Unbiased | 186.16 | 191.33 | 5.1776 |
| 19 | 30 | Unbiased | 184.9 | 188.98 | 4.0799 |
| 20 | 30 | Unbiased | 187.37 | 189.28 | 1.9146 |
| 21 | 50 | Bias | 185.69 | 191.11 | 5.4141 |
| 22 | 50 | Bias | 186.18 | 189 | 2.8203 |
| 23 | 50 | Bias | 188.01 | 191.43 | 3.4176 |
| 24 | 50 | Bias | 188.13 | 191.33 | 3.206 |
| 25 | 50 | Bias | 188.09 | 192.29 | 4.2004 |
| 26 | 50 | Unbiased | 186.94 | 190.6 | 3.6597 |
| 27 | 50 | Unbiased | 188.25 | 191.87 | 3.6252 |
| 28 | 50 | Unbiased | 182.35 | 188.17 | 5.8199 |
| 29 | 50 | Unbiased | 185.91 | 191.39 | 5.4789 |
| 30 | 50 | Unbiased | 191.07 | 195.02 | 3.9522 |
| 31 | 0 | Correlation | 182.39 | 184 | 1.6084 |
| 32 | 0 | Correlation | 186.09 | 187.01 | 0.921 |
| 33 | 0 | Correlation | 186.39 | 186.3 | -0.0865 |
| 34 | 0 | Correlation | 189.16 | 187.19 | -1.9648 |

## Test Statistics (V/uSec)
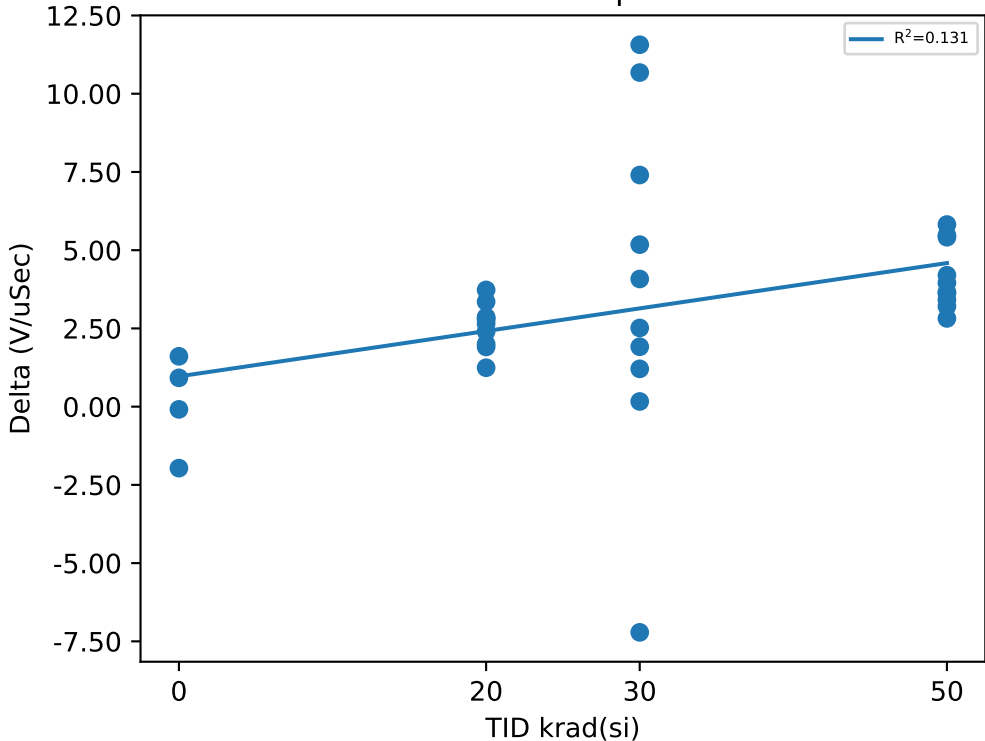
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 182.39 | 186.01 | 189.16 | 2.7779 | 184 | 186.13 | 187.19 | 1.4686 | -1.9648 | 0.11952 | 1.6084 | 1.5541 |
| 20 | 186.64 | 188.47 | 190.21 | 1.0867 | 189.38 | 191.04 | 193.03 | 1.2485 | 1.2435 | 2.5753 | 3.7305 | 0.72349 |
| 30 | 180.96 | 186.44 | 193.25 | 3.1507 | 186.03 | 190.19 | 197.52 | 3.3092 | -7.2125 | 3.7492 | 11.565 | 5.4661 |
| 50 | 182.35 | 187.06 | 191.07 | 2.2787 | 188.17 | 191.22 | 195.02 | 1.848 | 2.8203 | 4.1594 | 5.8199 | 1.0491 |

# Device Test: 16.32  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN2/7/3/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 182.42 | 186.17 | 3.7567 |
| 2 | 20 | Bias | 183.55 | 184.51 | 0.9639 |
| 3 | 20 | Bias | 179.38 | 181.26 | 1.8803 |
| 4 | 20 | Bias | 189.26 | 190.84 | 1.58 |
| 5 | 20 | Bias | 183.71 | 186.8 | 3.0891 |
| 6 | 20 | Unbiased | 183.53 | 185.27 | 1.736 |
| 7 | 20 | Unbiased | 184.19 | 186.45 | 2.2608 |
| 8 | 20 | Unbiased | 182.04 | 184.07 | 2.0291 |
| 9 | 20 | Unbiased | 185.78 | 188.87 | 3.0855 |
| 10 | 20 | Unbiased | 187.26 | 189.06 | 1.8031 |
| 11 | 30 | Bias | 181.23 | 184.29 | 3.061 |
| 12 | 30 | Bias | 176.5 | 184.74 | 8.2384 |
| 13 | 30 | Bias | 181.53 | 179.83 | -1.7034 |
| 14 | 30 | Bias | 184.74 | 184.03 | -0.7104 |
| 15 | 30 | Bias | 180.81 | 187.74 | 6.9227 |
| 16 | 30 | Unbiased | 189.78 | 184.25 | -5.5349 |
| 17 | 30 | Unbiased | 184.78 | 192.39 | 7.6054 |
| 18 | 30 | Unbiased | 182.45 | 187.87 | 5.4135 |
| 19 | 30 | Unbiased | 182.53 | 186.69 | 4.1618 |
| 20 | 30 | Unbiased | 182.89 | 186.93 | 4.0365 |
| 21 | 50 | Bias | 182.3 | 187.15 | 4.8482 |
| 22 | 50 | Bias | 182.2 | 183.26 | 1.0611 |
| 23 | 50 | Bias | 187.03 | 184.62 | -2.4054 |
| 24 | 50 | Bias | 186.02 | 190.45 | 4.4315 |
| 25 | 50 | Bias | 185.16 | 190.06 | 4.8988 |
| 26 | 50 | Unbiased | 182.72 | 186.79 | 4.0731 |
| 27 | 50 | Unbiased | 185 | 189.17 | 4.1739 |
| 28 | 50 | Unbiased | 185.58 | 189.3 | 3.7213 |
| 29 | 50 | Unbiased | 181.54 | 183.92 | 2.3776 |
| 30 | 50 | Unbiased | 184.37 | 187.72 | 3.3452 |
| 31 | 0 | Correlation | 183.34 | 184.66 | 1.3279 |
| 32 | 0 | Correlation | 184.81 | 185.44 | 0.6302 |
| 33 | 0 | Correlation | 182.69 | 180.8 | -1.8883 |
| 34 | 0 | Correlation | 183.31 | 182.36 | -0.9432 |

## Test Statistics (V/uSec)
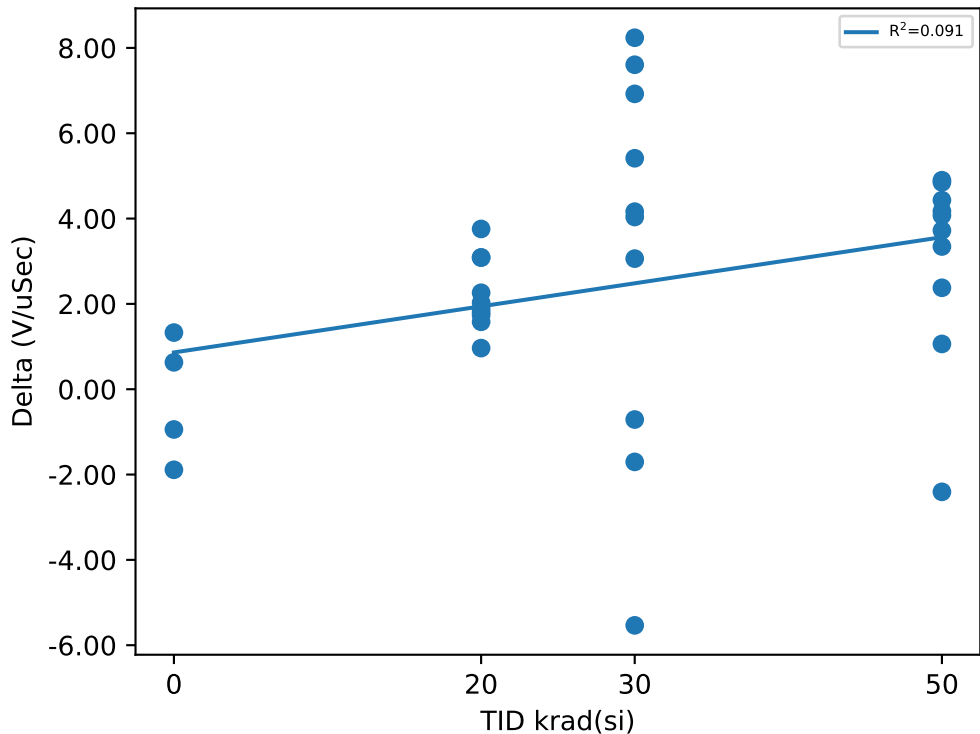
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 182.69 | 183.54 | 184.81 | 0.90177 | 180.8 | 183.32 | 185.44 | 2.1271 | -1.8883 | -0.21835 | 1.3279 | 1.4635 |
| 20 | 179.38 | 184.11 | 189.26 | 2.7808 | 181.26 | 186.33 | 190.84 | 2.7843 | 0.9639 | 2.2185 | 3.7567 | 0.84425 |
| 30 | 176.5 | 182.73 | 189.78 | 3.4041 | 179.83 | 185.88 | 192.39 | 3.2995 | -5.5349 | 3.1491 | 8.2384 | 4.4821 |
| 50 | 181.54 | 184.19 | 187.03 | 1.8758 | 183.26 | 187.24 | 190.45 | 2.5905 | -2.4054 | 3.0525 | 4.8988 | 2.2504 |

# Device Test: 16.33  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN3/7/3/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

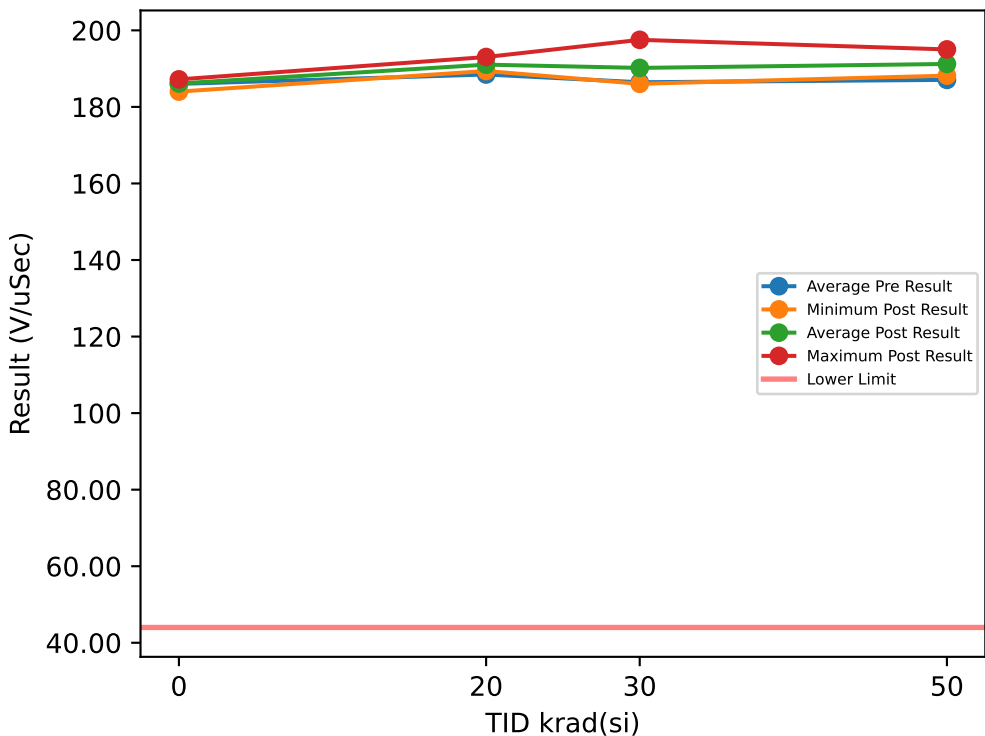| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 182.74 | 185.09 | 2.3473 |
| 2 | 20 | Bias | 181.9 | 184.96 | 3.0645 |
| 3 | 20 | Bias | 178.13 | 179.26 | 1.1289 |
| 4 | 20 | Bias | 188.59 | 191.04 | 2.4477 |
| 5 | 20 | Bias | 183.88 | 187.67 | 3.7858 |
| 6 | 20 | Unbiased | 183.21 | 185.84 | 2.6326 |
| 7 | 20 | Unbiased | 183.68 | 187.52 | 3.8382 |
| 8 | 20 | Unbiased | 181.94 | 184.52 | 2.576 |
| 9 | 20 | Unbiased | 184.99 | 187.61 | 2.6161 |
| 10 | 20 | Unbiased | 184.94 | 189.12 | 4.1731 |
| 11 | 30 | Bias | 179.66 | 182.79 | 3.124 |
| 12 | 30 | Bias | 176.36 | 183.77 | 7.4018 |
| 13 | 30 | Bias | 180.89 | 179.45 | -1.4403 |
| 14 | 30 | Bias | 183.43 | 183.91 | 0.4838 |
| 15 | 30 | Bias | 181.9 | 186.46 | 4.5579 |
| 16 | 30 | Unbiased | 188.85 | 184.69 | -4.1611 |
| 17 | 30 | Unbiased | 184.3 | 192.44 | 8.1375 |
| 18 | 30 | Unbiased | 182.84 | 186.27 | 3.4245 |
| 19 | 30 | Unbiased | 181.2 | 185.77 | 4.5706 |
| 20 | 30 | Unbiased | 181.82 | 186.72 | 4.8947 |
| 21 | 50 | Bias | 179.11 | 182.56 | 3.4434 |
| 22 | 50 | Bias | 181.6 | 183.14 | 1.5426 |
| 23 | 50 | Bias | 186.98 | 183.59 | -3.3872 |
| 24 | 50 | Bias | 185.44 | 188.96 | 3.5227 |
| 25 | 50 | Bias | 186.24 | 188.32 | 2.0784 |
| 26 | 50 | Unbiased | 179.7 | 184.32 | 4.6122 |
| 27 | 50 | Unbiased | 183.86 | 189.37 | 5.5085 |
| 28 | 50 | Unbiased | 182.84 | 189.56 | 6.719 |
| 29 | 50 | Unbiased | 181.33 | 184.49 | 3.1643 |
| 30 | 50 | Unbiased | 184.12 | 187.41 | 3.2963 |
| 31 | 0 | Correlation | 183.51 | 183.65 | 0.1378 |
| 32 | 0 | Correlation | 182.49 | 182.68 | 0.1878 |
| 33 | 0 | Correlation | 182.95 | 181.87 | -1.0776 |
| 34 | 0 | Correlation | 182.5 | 180.31 | -2.1934 |

## Test Statistics (V/uSec)
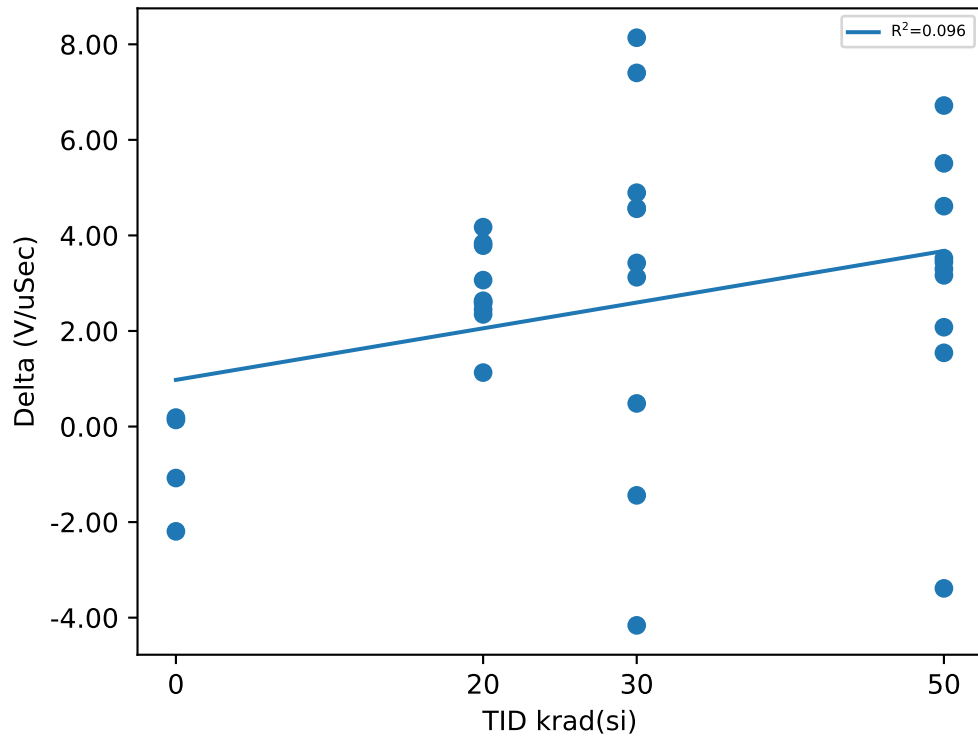
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 182.49 | 182.86 | 183.51 | 0.48288 | 180.31 | 182.13 | 183.65 | 1.4154 | -2.1934 | -0.73635 | 0.1878 | 1.134 |
| 20 | 178.13 | 183.4 | 188.59 | 2.6828 | 179.26 | 186.26 | 191.04 | 3.1908 | 1.1289 | 2.861 | 4.1731 | 0.89452 |
| 30 | 176.36 | 182.13 | 188.85 | 3.2314 | 179.45 | 185.23 | 192.44 | 3.3433 | -4.1611 | 3.0993 | 8.1375 | 3.8251 |
| 50 | 179.11 | 183.12 | 186.98 | 2.6853 | 182.56 | 186.17 | 189.56 | 2.8052 | -3.3872 | 3.05 | 6.719 | 2.7295 |

# Device Test: 16.34  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN4/7/3/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

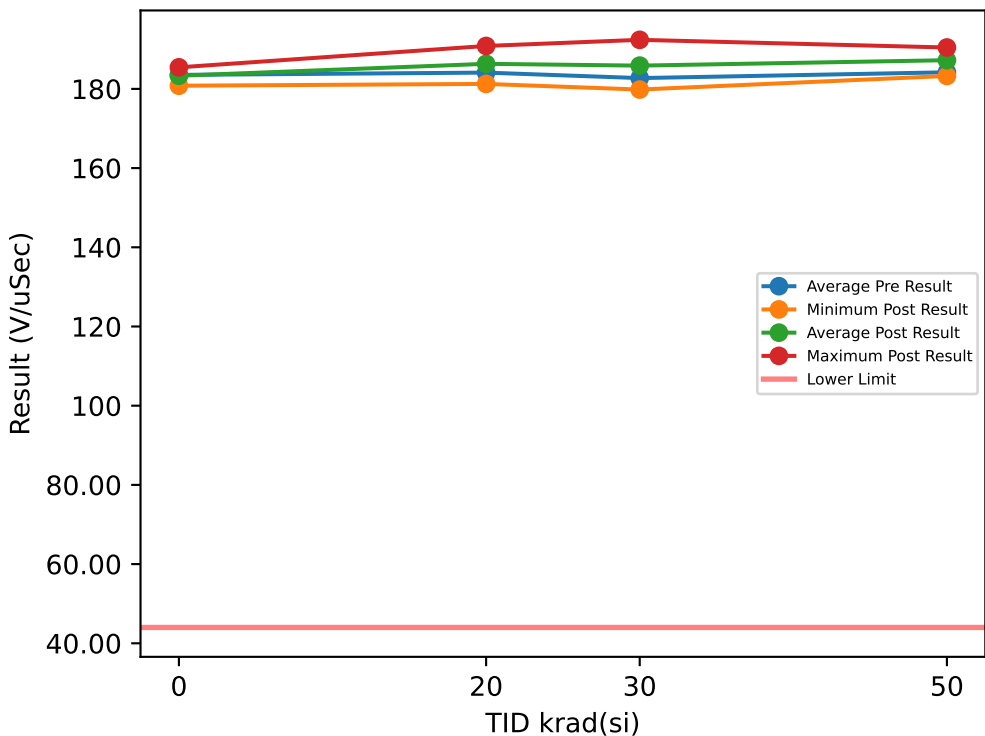| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 183.18 | 185.45 | 2.2701 |
| 2 | 20 | Bias | 182.41 | 184.89 | 2.4796 |
| 3 | 20 | Bias | 178.96 | 182.03 | 3.0714 |
| 4 | 20 | Bias | 188.79 | 190.21 | 1.4174 |
| 5 | 20 | Bias | 183.05 | 185.43 | 2.3809 |
| 6 | 20 | Unbiased | 182.93 | 185.37 | 2.4317 |
| 7 | 20 | Unbiased | 184.18 | 186.22 | 2.038 |
| 8 | 20 | Unbiased | 183.41 | 185.33 | 1.9275 |
| 9 | 20 | Unbiased | 185.74 | 187.93 | 2.1943 |
| 10 | 20 | Unbiased | 186.87 | 188.55 | 1.6846 |
| 11 | 30 | Bias | 180.02 | 186.05 | 6.038 |
| 12 | 30 | Bias | 177.24 | 183.93 | 6.6956 |
| 13 | 30 | Bias | 182.39 | 180.43 | -1.9619 |
| 14 | 30 | Bias | 183.64 | 185.64 | 1.9985 |
| 15 | 30 | Bias | 180 | 187.66 | 7.6593 |
| 16 | 30 | Unbiased | 188.92 | 183.33 | -5.5913 |
| 17 | 30 | Unbiased | 185.78 | 191.32 | 5.5362 |
| 18 | 30 | Unbiased | 182.66 | 189.69 | 7.0283 |
| 19 | 30 | Unbiased | 181.9 | 185.72 | 3.8296 |
| 20 | 30 | Unbiased | 181.46 | 184.88 | 3.4168 |
| 21 | 50 | Bias | 180.64 | 184.86 | 4.2134 |
| 22 | 50 | Bias | 182.75 | 183.16 | 0.4065 |
| 23 | 50 | Bias | 186.91 | 186.19 | -0.7169 |
| 24 | 50 | Bias | 184.46 | 190.89 | 6.4297 |
| 25 | 50 | Bias | 183.82 | 187.53 | 3.7124 |
| 26 | 50 | Unbiased | 180.83 | 185.43 | 4.5927 |
| 27 | 50 | Unbiased | 185.93 | 190.43 | 4.4957 |
| 28 | 50 | Unbiased | 184 | 188.25 | 4.2488 |
| 29 | 50 | Unbiased | 179.09 | 183.87 | 4.7742 |
| 30 | 50 | Unbiased | 185.13 | 188.78 | 3.646 |
| 31 | 0 | Correlation | 184.3 | 183.71 | -0.5892 |
| 32 | 0 | Correlation | 182.75 | 182.79 | 0.0327 |
| 33 | 0 | Correlation | 181.59 | 182.02 | 0.4358 |
| 34 | 0 | Correlation | 180.6 | 182.67 | 2.0707 |

## Test Statistics (V/uSec)
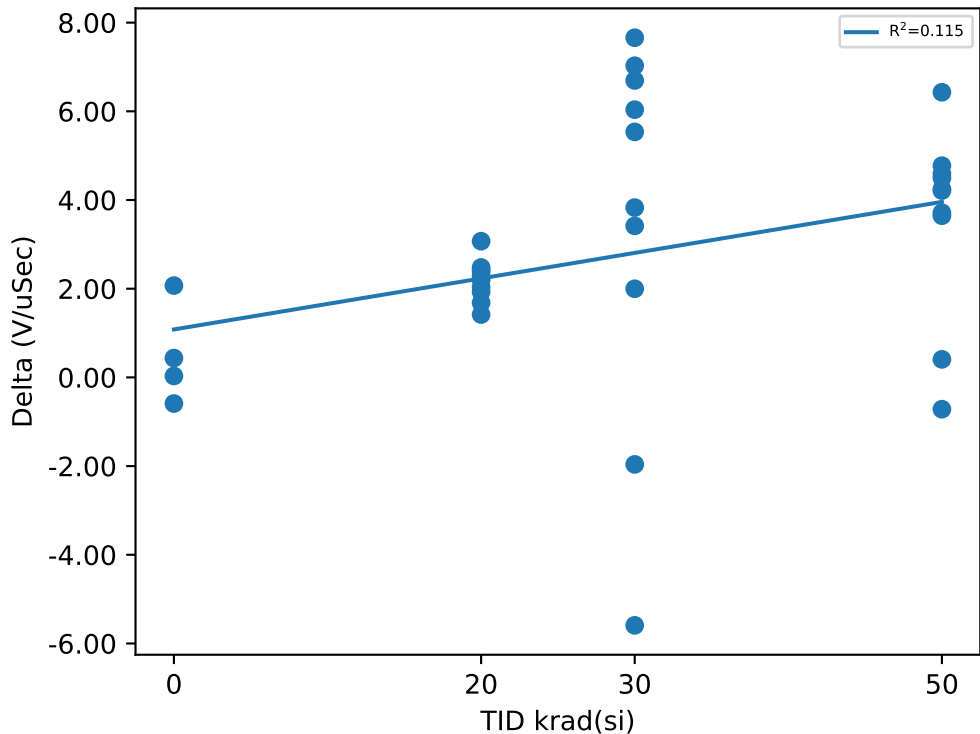
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 180.6 | 182.31 | 184.3 | 1.5923 | 182.02 | 182.8 | 183.71 | 0.69684 | -0.5892 | 0.4875 | 2.0707 | 1.1366 |
| 20 | 178.96 | 183.95 | 188.79 | 2.692 | 182.03 | 186.14 | 190.21 | 2.2676 | 1.4174 | 2.1895 | 3.0714 | 0.46024 |
| 30 | 177.24 | 182.4 | 188.92 | 3.2453 | 180.43 | 185.87 | 191.32 | 3.1326 | -5.5913 | 3.4649 | 7.6593 | 4.2868 |
| 50 | 179.09 | 183.36 | 186.91 | 2.5069 | 183.16 | 186.94 | 190.89 | 2.6705 | -0.7169 | 3.5803 | 6.4297 | 2.1296 |
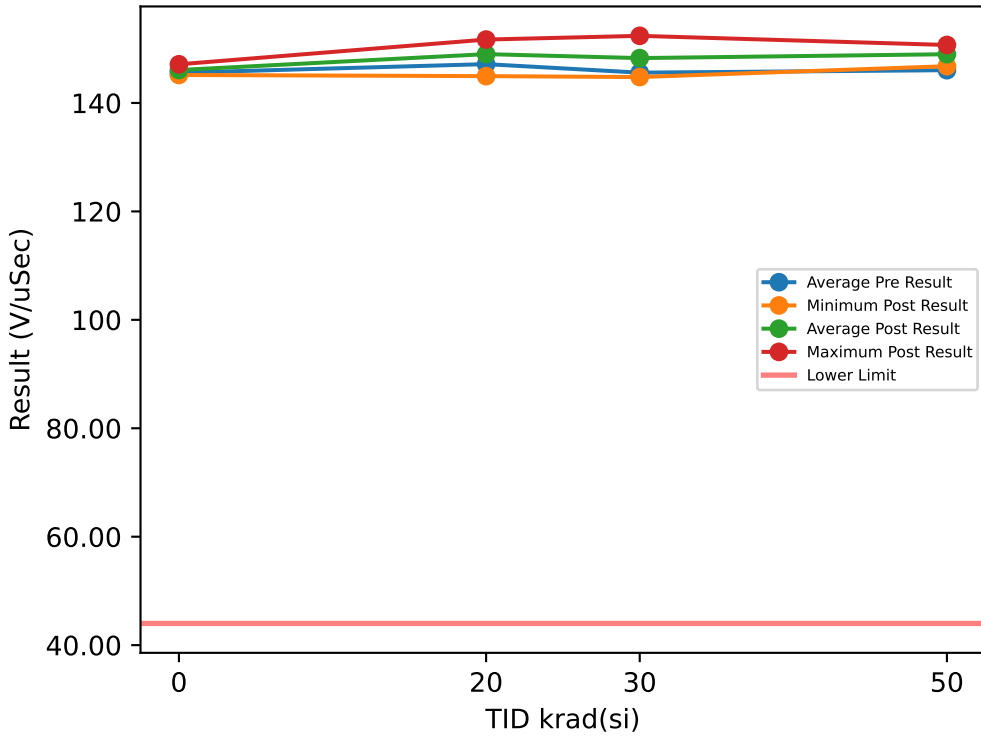
# Device Test: 16.35  PWRGD_SLEW_RATE_FALL(_LEVEL|FALL/PWRGD/7/3/0/0/0/@PWRGD_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

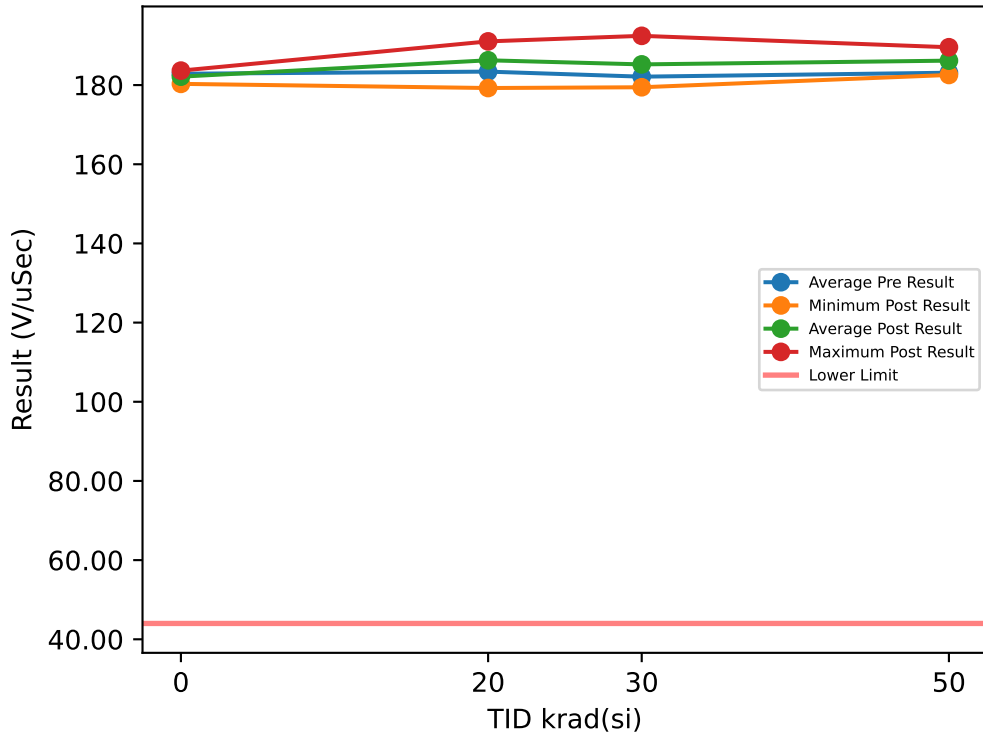| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 145.91 | 147.91 | 2.006 |
| 2 | 20 | Bias | 145.62 | 147.52 | 1.9 |
| 3 | 20 | Bias | 143.24 | 144.95 | 1.7085 |
| 4 | 20 | Bias | 150.01 | 151.65 | 1.6378 |
| 5 | 20 | Bias | 146.24 | 148.09 | 1.8461 |
| 6 | 20 | Unbiased | 146.87 | 148.84 | 1.9684 |
| 7 | 20 | Unbiased | 147.56 | 149.36 | 1.8023 |
| 8 | 20 | Unbiased | 147.56 | 149.34 | 1.7816 |
| 9 | 20 | Unbiased | 148.73 | 150.73 | 1.9934 |
| 10 | 20 | Unbiased | 149.9 | 151.69 | 1.7908 |
| 11 | 30 | Bias | 145.49 | 147.47 | 1.9778 |
| 12 | 30 | Bias | 142.01 | 148.38 | 6.3685 |
| 13 | 30 | Bias | 144.31 | 144.78 | 0.4702 |
| 14 | 30 | Bias | 147.25 | 147 | -0.2459 |
| 15 | 30 | Bias | 143.95 | 149.63 | 5.6889 |
| 16 | 30 | Unbiased | 150.16 | 147.13 | -3.0256 |
| 17 | 30 | Unbiased | 148.28 | 152.38 | 4.0972 |
| 18 | 30 | Unbiased | 143.86 | 151.21 | 7.3497 |
| 19 | 30 | Unbiased | 145.61 | 146.55 | 0.9377 |
| 20 | 30 | Unbiased | 145 | 148.24 | 3.2392 |
| 21 | 50 | Bias | 144.15 | 147.78 | 3.6295 |
| 22 | 50 | Bias | 145.96 | 146.78 | 0.8261 |
| 23 | 50 | Bias | 148.43 | 148.88 | 0.453 |
| 24 | 50 | Bias | 146.48 | 150.7 | 4.2204 |
| 25 | 50 | Bias | 147.36 | 150.03 | 2.6727 |
| 26 | 50 | Unbiased | 146.39 | 150 | 3.6145 |
| 27 | 50 | Unbiased | 146.13 | 149.5 | 3.3691 |
| 28 | 50 | Unbiased | 145.36 | 148.96 | 3.5983 |
| 29 | 50 | Unbiased | 143.94 | 147.69 | 3.7506 |
| 30 | 50 | Unbiased | 146.27 | 149.59 | 3.3224 |
| 31 | 0 | Correlation | 145.72 | 145.82 | 0.0959 |
| 32 | 0 | Correlation | 146.98 | 147.13 | 0.1505 |
| 33 | 0 | Correlation | 146.37 | 146.18 | -0.1914 |
| 34 | 0 | Correlation | 143.2 | 145.16 | 1.9627 |

## Test Statistics (V/uSec)
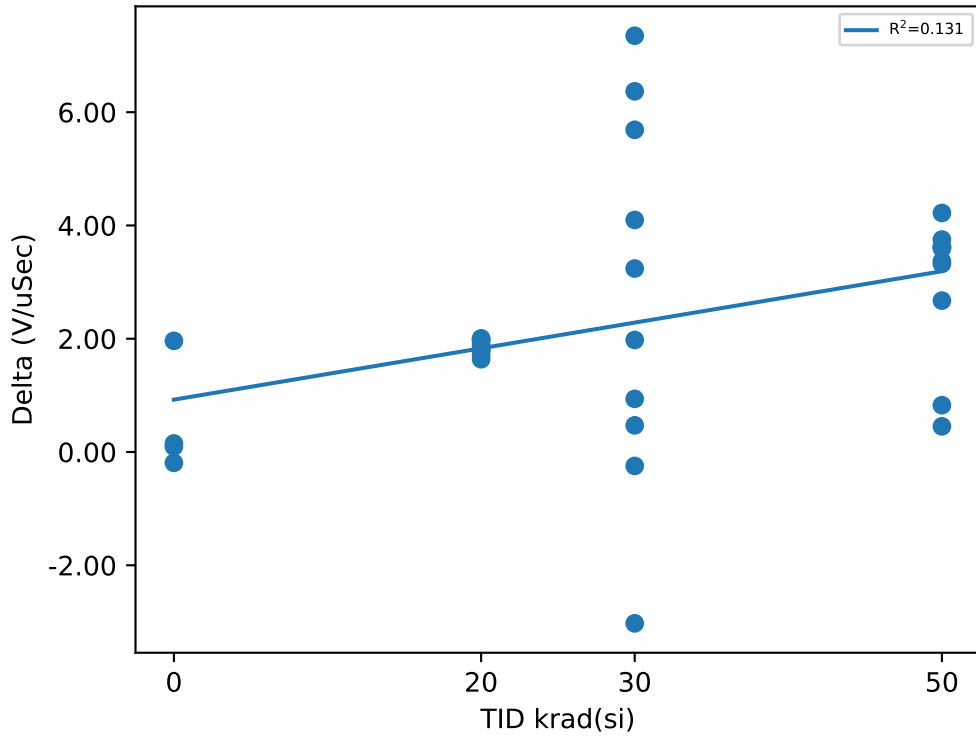
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 143.2 | 145.57 | 146.98 | 1.66 | 145.16 | 146.07 | 147.13 | 0.82067 | -0.1914 | 0.50443 | 1.9627 | 0.98368 |
| 20 | 143.24 | 147.16 | 150.01 | 2.0737 | 144.95 | 149.01 | 151.69 | 2.0592 | 1.6378 | 1.8435 | 2.006 | 0.12316 |
| 30 | 142.01 | 145.59 | 150.16 | 2.3901 | 144.78 | 148.28 | 152.38 | 2.2633 | -3.0256 | 2.6858 | 7.3497 | 3.2713 |
| 50 | 143.94 | 146.05 | 148.43 | 1.3436 | 146.78 | 148.99 | 150.7 | 1.2327 | 0.453 | 2.9457 | 4.2204 | 1.2787 |

## TID vs Result Stats
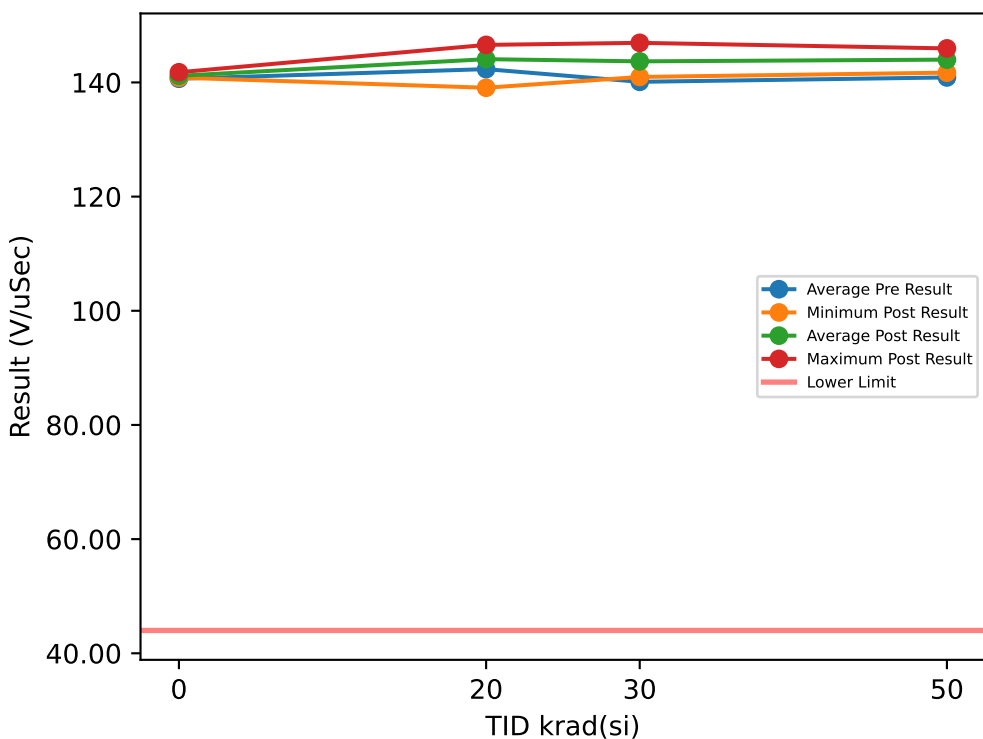


## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

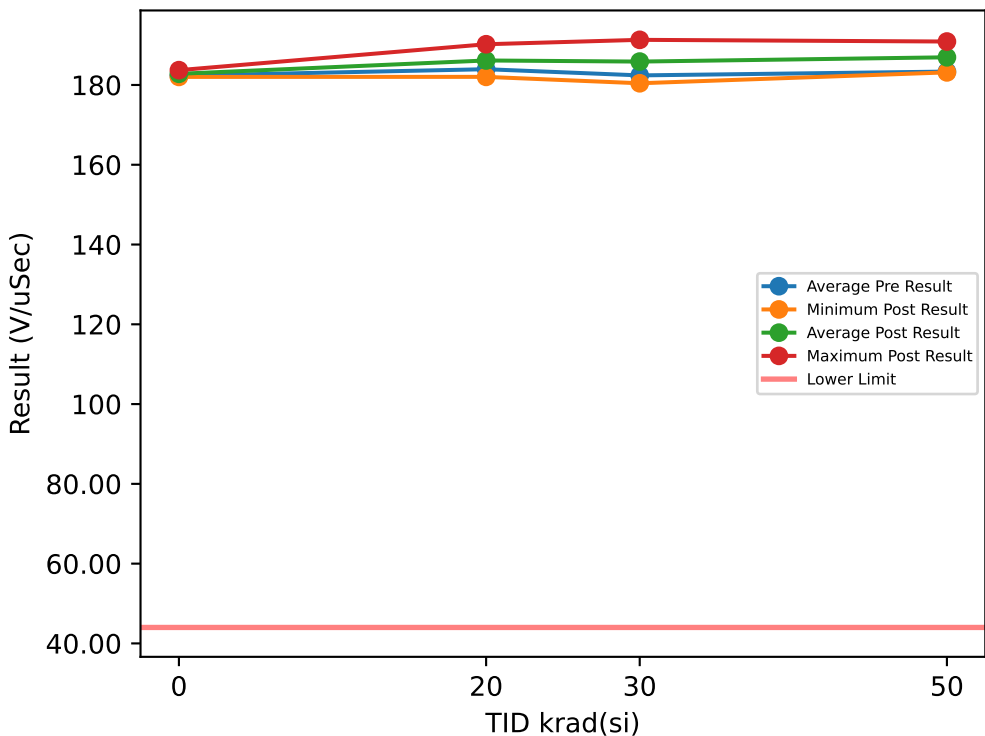| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 141.47 | 143.33 | 1.861 |
| 2 | 20 | Bias | 141.43 | 143.49 | 2.0608 |
| 3 | 20 | Bias | 137.26 | 139.07 | 1.8039 |
| 4 | 20 | Bias | 144.6 | 146.58 | 1.9728 |
| 5 | 20 | Bias | 142.23 | 143.97 | 1.7434 |
| 6 | 20 | Unbiased | 142.3 | 143.97 | 1.6669 |
| 7 | 20 | Unbiased | 143.59 | 145.24 | 1.6527 |
| 8 | 20 | Unbiased | 143.16 | 144.56 | 1.3982 |
| 9 | 20 | Unbiased | 143.2 | 145.03 | 1.8357 |
| 10 | 20 | Unbiased | 144.05 | 145.52 | 1.4691 |
| 11 | 30 | Bias | 139.06 | 143.61 | 4.5498 |
| 12 | 30 | Bias | 137.5 | 143.2 | 5.7003 |
| 13 | 30 | Bias | 140.4 | 140.96 | 0.5595 |
| 14 | 30 | Bias | 141.45 | 143.13 | 1.6816 |
| 15 | 30 | Bias | 139.74 | 144.2 | 4.4596 |
| 16 | 30 | Unbiased | 142.98 | 144.23 | 1.2545 |
| 17 | 30 | Unbiased | 142.39 | 146.94 | 4.5467 |
| 18 | 30 | Unbiased | 138.01 | 145.04 | 7.0304 |
| 19 | 30 | Unbiased | 141.02 | 141.87 | 0.8564 |
| 20 | 30 | Unbiased | 138.54 | 143.76 | 5.2174 |
| 21 | 50 | Bias | 138.88 | 141.72 | 2.8385 |
| 22 | 50 | Bias | 141.45 | 142.66 | 1.2156 |
| 23 | 50 | Bias | 142.74 | 144.77 | 2.0218 |
| 24 | 50 | Bias | 141.49 | 145.96 | 4.4726 |
| 25 | 50 | Bias | 141.37 | 144.14 | 2.7674 |
| 26 | 50 | Unbiased | 138.93 | 142.51 | 3.5801 |
| 27 | 50 | Unbiased | 141.32 | 144.5 | 3.1792 |
| 28 | 50 | Unbiased | 141.52 | 145.23 | 3.7126 |
| 29 | 50 | Unbiased | 139.31 | 142.6 | 3.2923 |
| 30 | 50 | Unbiased | 141.74 | 145.84 | 4.1007 |
| 31 | 0 | Correlation | 140.91 | 140.9 | -0.0172 |
| 32 | 0 | Correlation | 141.61 | 141.11 | -0.4977 |
| 33 | 0 | Correlation | 141.92 | 141.78 | -0.1409 |
| 34 | 0 | Correlation | 138.13 | 140.84 | 2.7099 |

## Test Statistics (V/uSec)
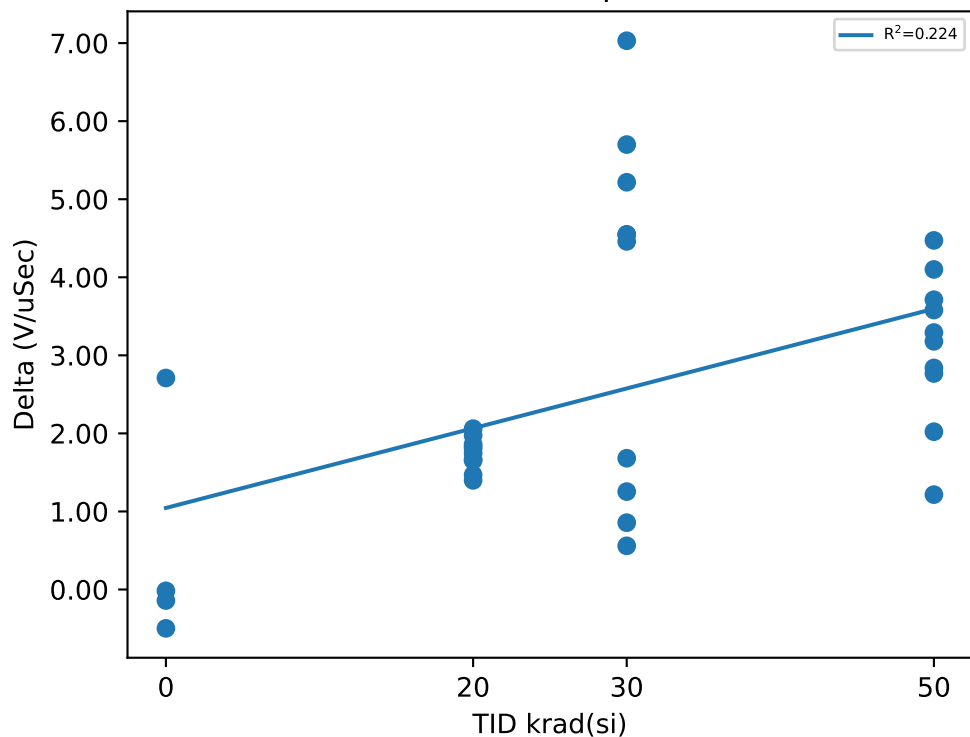
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 138.13 | 140.64 | 141.92 | 1.7269 | 140.84 | 141.16 | 141.78 | 0.43168 | -0.4977 | 0.51352 | 2.7099 | 1.4784 |
| 20 | 137.26 | 142.33 | 144.6 | 2.0649 | 139.07 | 144.08 | 146.58 | 2.0231 | 1.3982 | 1.7465 | 2.0608 | 0.20757 |
| 30 | 137.5 | 140.11 | 142.98 | 1.8577 | 140.96 | 143.69 | 146.94 | 1.6409 | 0.5595 | 3.5856 | 7.0304 | 2.2921 |
| 50 | 138.88 | 140.87 | 142.74 | 1.3354 | 141.72 | 143.99 | 145.96 | 1.5207 | 1.2156 | 3.1181 | 4.4726 | 0.96745 |

# Device Test: 16.37  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN1/7/14/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.129$

## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 565.7 | 571.13 | 5.4364 |
| 2 | 20 | Bias | 570.5 | 569.08 | -1.4164 |
| 3 | 20 | Bias | 567.89 | 566.49 | -1.398 |
| 4 | 20 | Bias | 564.25 | 569.47 | 5.2196 |
| 5 | 20 | Bias | 572.44 | 569.25 | -3.1828 |
| 6 | 20 | Unbiased | 572.69 | 574.51 | 1.8198 |
| 7 | 20 | Unbiased | 567.88 | 569.79 | 1.9145 |
| 8 | 20 | Unbiased | 568.07 | 565.78 | -2.2942 |
| 9 | 20 | Unbiased | 573.07 | 570.92 | -2.1493 |
| 10 | 20 | Unbiased | 572.28 | 575.82 | 3.5415 |
| 11 | 30 | Bias | 569.3 | 609.58 | 40.28 |
| 12 | 30 | Bias | 570.53 | 605.21 | 34.686 |
| 13 | 30 | Bias | 569.95 | 609.53 | 39.584 |
| 14 | 30 | Bias | 565.3 | 596.28 | 30.976 |
| 15 | 30 | Bias | 565.02 | 601.03 | 36.005 |
| 16 | 30 | Unbiased | 571.14 | 606.45 | 35.307 |
| 17 | 30 | Unbiased | 570.84 | 605.72 | 34.881 |
| 18 | 30 | Unbiased | 569.29 | 601.1 | 31.815 |
| 19 | 30 | Unbiased | 568.87 | 604.32 | 35.448 |
| 20 | 30 | Unbiased | 571.21 | 593.75 | 22.533 |
| 21 | 50 | Bias | 568.58 | 605.17 | 36.586 |
| 22 | 50 | Bias | 570.16 | 605.92 | 35.756 |
| 23 | 50 | Bias | 572.3 | 615.01 | 42.71 |
| 24 | 50 | Bias | 572.64 | 612.11 | 39.475 |
| 25 | 50 | Bias | 575.16 | 580.34 | 5.1752 |
| 26 | 50 | Unbiased | 572.19 | 566.65 | -5.5439 |
| 27 | 50 | Unbiased | 574.52 | 572.07 | -2.4527 |
| 28 | 50 | Unbiased | 568.1 | 567.91 | -0.1897 |
| 29 | 50 | Unbiased | 575.51 | 577.42 | 1.903 |
| 30 | 50 | Unbiased | 572.26 | 570.46 | -1.7959 |
| 31 | 0 | Correlation | 570.26 | 564.79 | -5.467 |
| 32 | 0 | Correlation | 567.66 | 568.47 | 0.817 |
| 33 | 0 | Correlation | 574.1 | 571.99 | -2.1075 |
| 34 | 0 | Correlation | 568.71 | 567.84 | -0.8702 |

## Test Statistics (V/uSec)
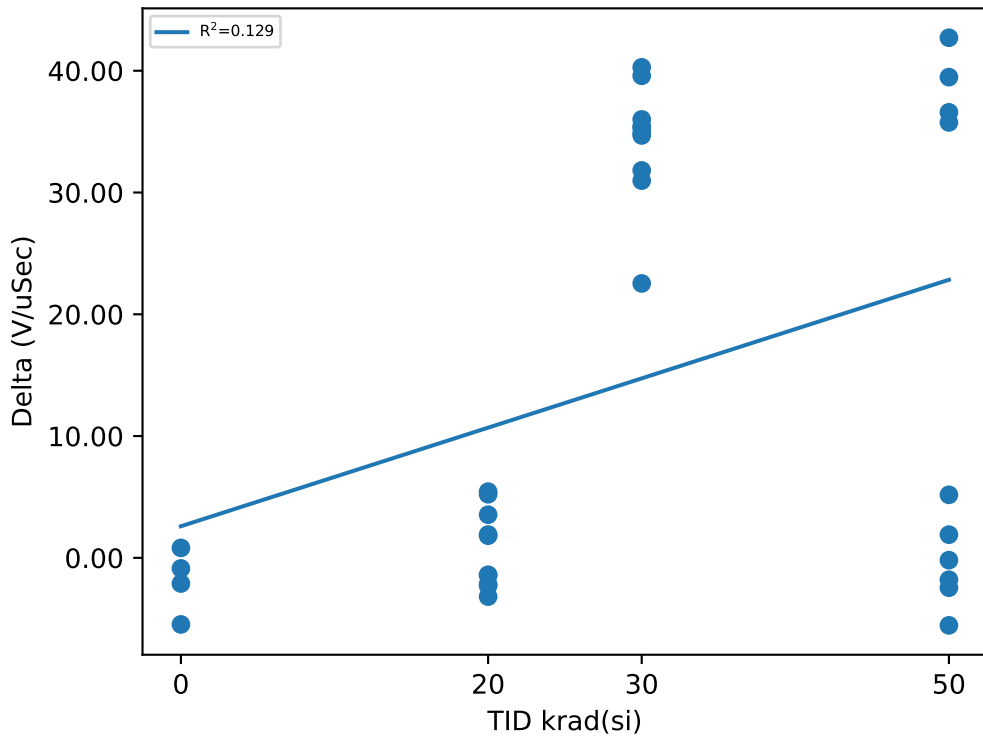
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 567.66 | 570.18 | 574.1 | 2.8214 | 564.79 | 568.27 | 571.99 | 2.9544 | -5.467 | -1.9069 | 0.817 | 2.6589 |
| 20 | 564.25 | 569.48 | 573.07 | 3.1539 | 565.78 | 570.23 | 575.82 | 3.1227 | -3.1828 | 0.74911 | 5.4364 | 3.2435 |
| 30 | 565.02 | 569.15 | 571.21 | 2.2501 | 593.75 | 603.3 | 609.58 | 5.2634 | 22.533 | 34.152 | 40.28 | 4.9986 |
| 50 | 568.1 | 572.14 | 575.51 | 2.5684 | 566.65 | 587.3 | 615.01 | 19.759 | -5.5439 | 15.162 | 42.71 | 20.469 |

# Device Test: 16.38  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN2/7/14/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 584.07 | 587.81 | 3.7402 |
| 2 | 20 | Bias | 580.91 | 590.68 | 9.767 |
| 3 | 20 | Bias | 583.31 | 579.08 | -4.2308 |
| 4 | 20 | Bias | 584.73 | 582.15 | -2.5824 |
| 5 | 20 | Bias | 589.37 | 583.93 | -5.4451 |
| 6 | 20 | Unbiased | 592.98 | 589.62 | -3.3654 |
| 7 | 20 | Unbiased | 582.95 | 589.71 | 6.7557 |
| 8 | 20 | Unbiased | 585.54 | 580.41 | -5.1282 |
| 9 | 20 | Unbiased | 583.54 | 582.52 | -1.0195 |
| 10 | 20 | Unbiased | 593.17 | 584.72 | -8.4454 |
| 11 | 30 | Bias | 581.15 | 609.68 | 28.533 |
| 12 | 30 | Bias | 585.03 | 610.75 | 25.716 |
| 13 | 30 | Bias | 581.92 | 610.93 | 29.006 |
| 14 | 30 | Bias | 579.23 | 615.41 | 36.179 |
| 15 | 30 | Bias | 581.09 | 617.77 | 36.682 |
| 16 | 30 | Unbiased | 583.66 | 618.18 | 34.52 |
| 17 | 30 | Unbiased | 585.4 | 611.23 | 25.827 |
| 18 | 30 | Unbiased | 580.67 | 607.92 | 27.249 |
| 19 | 30 | Unbiased | 582.23 | 597.54 | 15.312 |
| 20 | 30 | Unbiased | 586.96 | 621.75 | 34.788 |
| 21 | 50 | Bias | 583.1 | 620.84 | 37.739 |
| 22 | 50 | Bias | 581.84 | 609.98 | 28.144 |
| 23 | 50 | Bias | 588.34 | 620.72 | 32.384 |
| 24 | 50 | Bias | 586.92 | 616.85 | 29.932 |
| 25 | 50 | Bias | 591.74 | 589.57 | -2.1715 |
| 26 | 50 | Unbiased | 575.5 | 575.26 | -0.2402 |
| 27 | 50 | Unbiased | 588.45 | 582.05 | -6.4071 |
| 28 | 50 | Unbiased | 585.28 | 577.54 | -7.7374 |
| 29 | 50 | Unbiased | 587.29 | 580.38 | -6.9049 |
| 30 | 50 | Unbiased | 590.52 | 576.59 | -13.928 |
| 31 | 0 | Correlation | 580.53 | 580.69 | 0.1583 |
| 32 | 0 | Correlation | 582.67 | 580.96 | -1.7041 |
| 33 | 0 | Correlation | 587.06 | 586.26 | -0.7976 |
| 34 | 0 | Correlation | 584.57 | 579.74 | -4.8364 |

## Test Statistics (V/uSec)
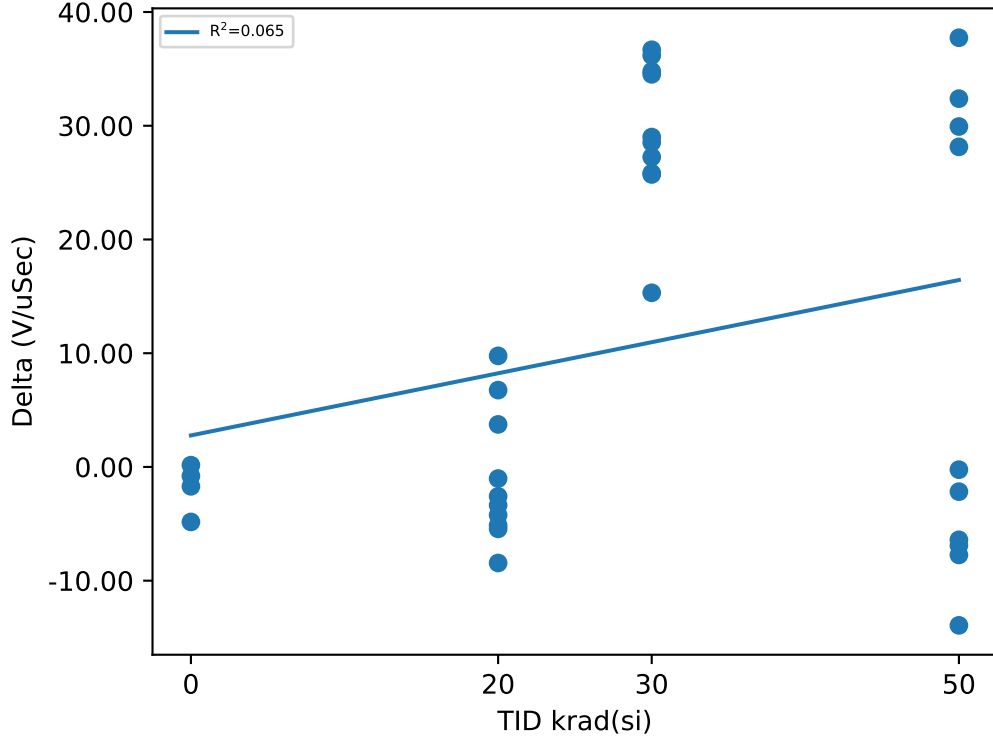
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 580.53 | 583.71 | 587.06 | 2.7762 | 579.74 | 581.91 | 586.26 | 2.9449 | -4.8364 | -1.7949 | 0.1583 | 2.1655 |
| 20 | 580.91 | 586.06 | 593.17 | 4.2879 | 579.08 | 585.06 | 590.68 | 4.1516 | -8.4454 | -0.99539 | 9.767 | 5.8625 |
| 30 | 579.23 | 582.74 | 586.96 | 2.4448 | 597.54 | 612.12 | 621.75 | 6.7698 | 15.312 | 29.381 | 36.682 | 6.5368 |
| 50 | 575.5 | 585.9 | 591.74 | 4.7581 | 575.26 | 594.98 | 620.84 | 19.652 | -13.928 | 9.0809 | 37.739 | 20.231 |

# Device Test: 16.39 EN_SLEW_RATE_RISE(_LEVEL|RISE/EN3/7/14/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

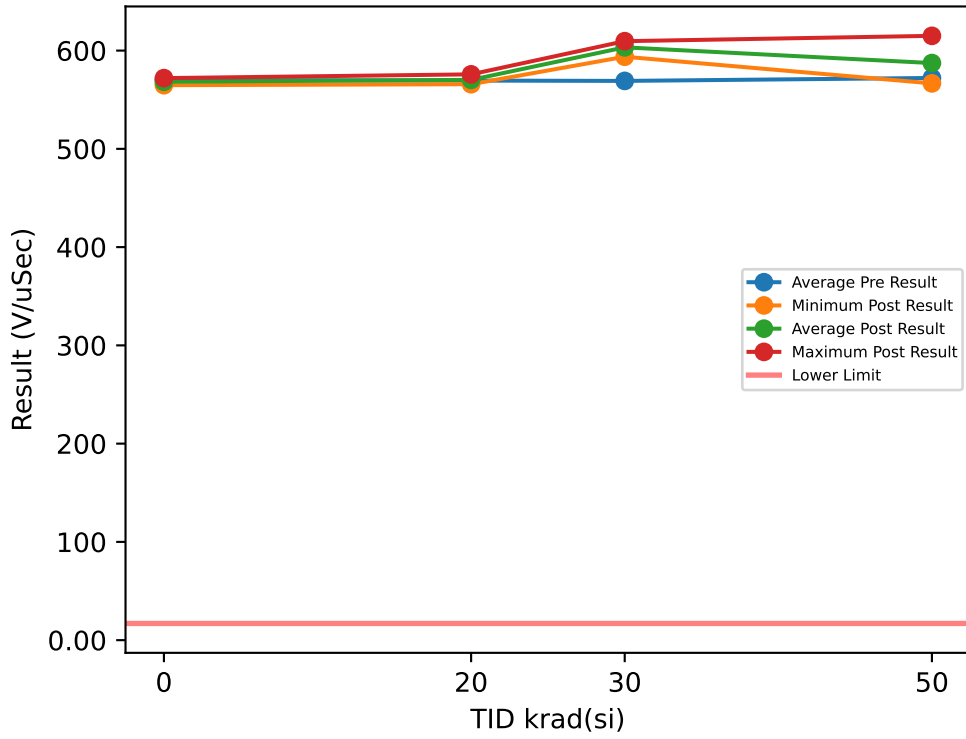| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 572.06 | 570.15 | -1.9134 |
| 2 | 20 | Bias | 563.77 | 577.51 | 13.732 |
| 3 | 20 | Bias | 563.3 | 562.5 | -0.8061 |
| 4 | 20 | Bias | 565.03 | 569.03 | 3.9978 |
| 5 | 20 | Bias | 566.38 | 573 | 6.6235 |
| 6 | 20 | Unbiased | 574.57 | 575.4 | 0.8289 |
| 7 | 20 | Unbiased | 569.07 | 566.56 | -2.5096 |
| 8 | 20 | Unbiased | 570.56 | 575.7 | 5.1457 |
| 9 | 20 | Unbiased | 569.22 | 575.88 | 6.6605 |
| 10 | 20 | Unbiased | 571.99 | 567.49 | -4.5079 |
| 11 | 30 | Bias | 570.64 | 603.34 | 32.707 |
| 12 | 30 | Bias | 569.87 | 601.2 | 31.328 |
| 13 | 30 | Bias | 566.71 | 607.54 | 40.827 |
| 14 | 30 | Bias | 562.86 | 596.28 | 33.423 |
| 15 | 30 | Bias | 566.13 | 610.9 | 44.77 |
| 16 | 30 | Unbiased | 566.32 | 601.69 | 35.363 |
| 17 | 30 | Unbiased | 570.42 | 607.89 | 37.462 |
| 18 | 30 | Unbiased | 567.49 | 604.75 | 37.254 |
| 19 | 30 | Unbiased | 566.95 | 593.63 | 26.687 |
| 20 | 30 | Unbiased | 571.28 | 586.27 | 14.987 |
| 21 | 50 | Bias | 574.4 | 603.29 | 28.885 |
| 22 | 50 | Bias | 568.96 | 602.02 | 33.063 |
| 23 | 50 | Bias | 578.06 | 594.06 | 16.001 |
| 24 | 50 | Bias | 569.08 | 612.83 | 43.755 |
| 25 | 50 | Bias | 576.73 | 576.56 | -0.1689 |
| 26 | 50 | Unbiased | 569.78 | 571.25 | 1.4735 |
| 27 | 50 | Unbiased | 573.12 | 566.23 | -6.8861 |
| 28 | 50 | Unbiased | 563.6 | 563.77 | 0.1693 |
| 29 | 50 | Unbiased | 573.63 | 566.92 | -6.7058 |
| 30 | 50 | Unbiased | 564.88 | 570.21 | 5.3337 |
| 31 | 0 | Correlation | 571.74 | 567.2 | -4.5374 |
| 32 | 0 | Correlation | 575.44 | 573.4 | -2.0421 |
| 33 | 0 | Correlation | 576.72 | 572.06 | -4.6596 |
| 34 | 0 | Correlation | 577.58 | 566.26 | -11.322 |

## Test Statistics (V/uSec)
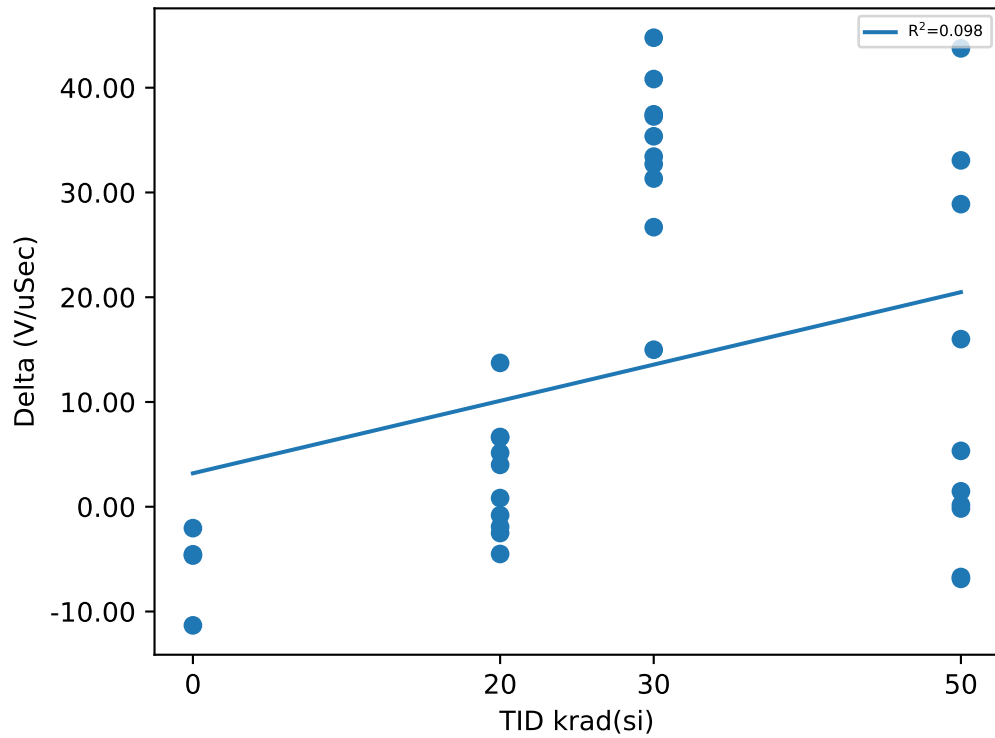
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 571.74 | 575.37 | 577.58 | 2.5748 | 566.26 | 569.73 | 573.4 | 3.529 | -11.322 | -5.6402 | -2.0421 | 3.9751 |
| 20 | 563.3 | 568.59 | 574.57 | 3.8379 | 562.5 | 571.32 | 577.51 | 4.939 | -4.5079 | 2.7252 | 13.732 | 5.544 |
| 30 | 562.86 | 567.87 | 571.28 | 2.6404 | 586.27 | 601.35 | 610.9 | 7.4579 | 14.987 | 33.481 | 44.77 | 8.2222 |
| 50 | 563.6 | 571.22 | 578.06 | 4.7932 | 563.77 | 582.72 | 612.83 | 18.37 | -6.8861 | 11.492 | 43.755 | 17.952 |

# Device Test: 16.4   EN_SLEW_RATE_RISE(_LEVEL|RISE/EN4/1.6/3/0/0/0/@EN_SLEW_RATE_RISE )
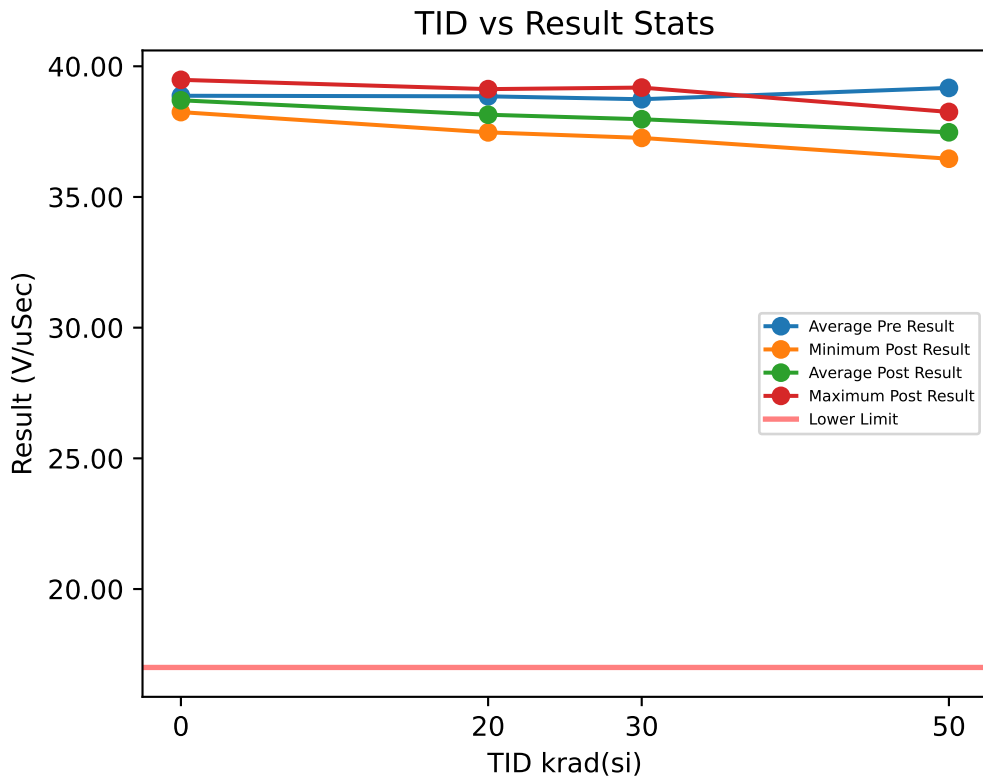
### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Lower Limit = 17.0 (V/uSec))

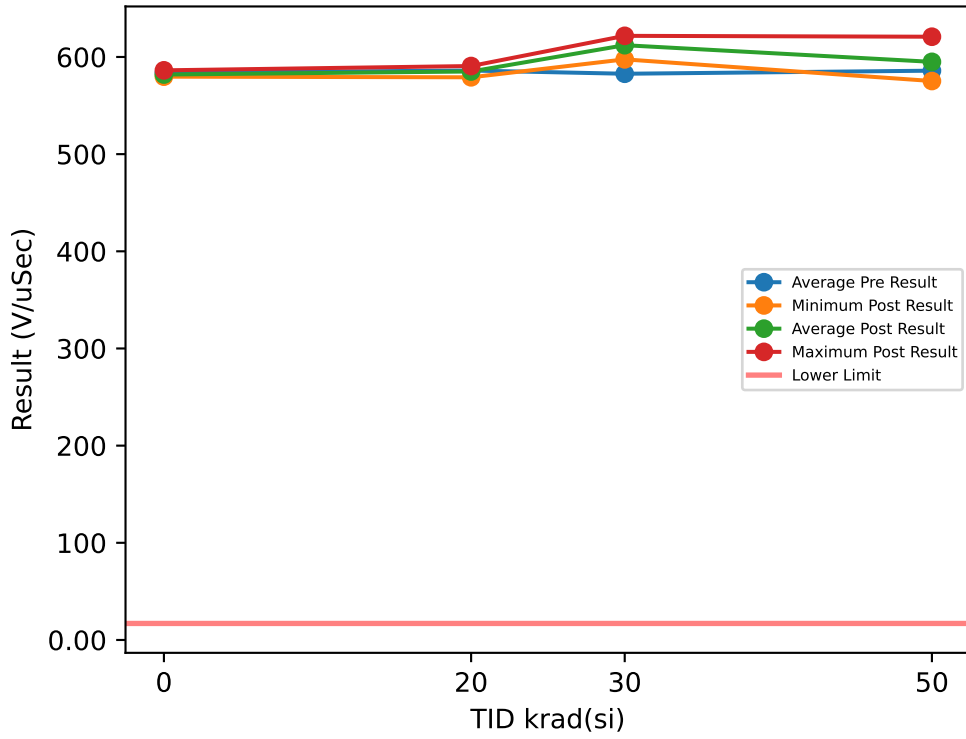| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 38.241 | 37.471 | -0.7694 |
| 2 | 20 | Bias | 38.233 | 37.517 | -0.7163 |
| 3 | 20 | Bias | 38.156 | 37.507 | -0.649 |
| 4 | 20 | Bias | 39.704 | 38.651 | -1.0527 |
| 5 | 20 | Bias | 38.95 | 38.112 | -0.8379 |
| 6 | 20 | Unbiased | 38.834 | 39.126 | 0.2924 |
| 7 | 20 | Unbiased | 38.728 | 37.88 | -0.8483 |
| 8 | 20 | Unbiased | 39.682 | 38.937 | -0.745 |
| 9 | 20 | Unbiased | 38.724 | 37.996 | -0.7282 |
| 10 | 20 | Unbiased | 39.258 | 38.267 | -0.9906 |
| 11 | 30 | Bias | 38.369 | 37.264 | -1.1052 |
| 12 | 30 | Bias | 38.549 | 37.395 | -1.1533 |
| 13 | 30 | Bias | 38.23 | 37.83 | -0.4004 |
| 14 | 30 | Bias | 39.425 | 38.122 | -1.3026 |
| 15 | 30 | Bias | 37.834 | 38.716 | 0.8819 |
| 16 | 30 | Unbiased | 39.573 | 37.26 | -2.3137 |
| 17 | 30 | Unbiased | 39.316 | 39.185 | -0.1304 |
| 18 | 30 | Unbiased | 38.672 | 38.838 | 0.1667 |
| 19 | 30 | Unbiased | 38.199 | 37.58 | -0.6194 |
| 20 | 30 | Unbiased | 39.222 | 37.55 | -1.6721 |
| 21 | 50 | Bias | 39.419 | 37.791 | -1.6278 |
| 22 | 50 | Bias | 39.182 | 37.57 | -1.6118 |
| 23 | 50 | Bias | 39.559 | 37.992 | -1.5673 |
| 24 | 50 | Bias | 39.257 | 38.124 | -1.1328 |
| 25 | 50 | Bias | 39.569 | 38.253 | -1.3163 |
| 26 | 50 | Unbiased | 38.741 | 36.463 | -2.278 |
| 27 | 50 | Unbiased | 39.359 | 37.688 | -1.672 |
| 28 | 50 | Unbiased | 38.504 | 36.742 | -1.7621 |
| 29 | 50 | Unbiased | 39.34 | 36.861 | -2.4782 |
| 30 | 50 | Unbiased | 38.793 | 37.26 | -1.5332 |
| 31 | 0 | Correlation | 38.425 | 38.379 | -0.0457 |
| 32 | 0 | Correlation | 38.566 | 38.686 | 0.1203 |
| 33 | 0 | Correlation | 39.047 | 39.481 | 0.4346 |
| 34 | 0 | Correlation | 39.452 | 38.247 | -1.2045 |
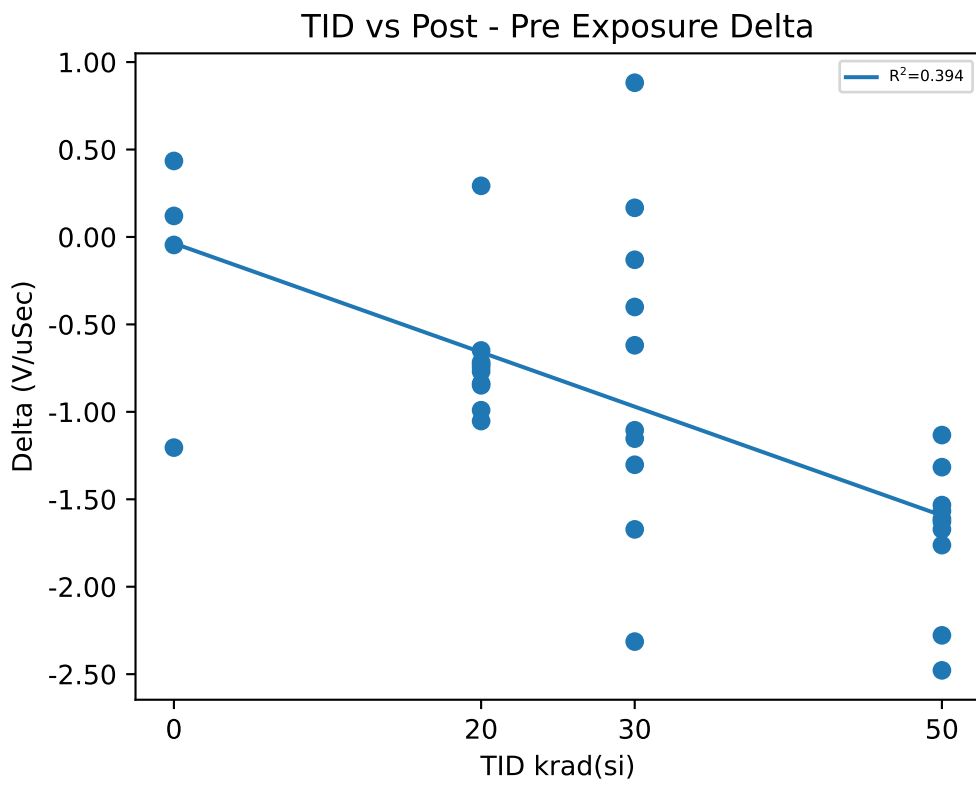
### Test Statistics (V/uSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 38.425 | 38.872 | 39.452 | 0.469 | 38.247 | 38.698 | 39.481 | 0.55333 | -1.2045 | -0.17383 | 0.4346 | 0.7154 |
| 20 | 38.156 | 38.851 | 39.704 | 0.56384 | 37.471 | 38.146 | 39.126 | 0.59717 | -1.0527 | -0.7045 | 0.2924 | 0.37193 |
| 30 | 37.834 | 38.739 | 39.573 | 0.60353 | 37.26 | 37.974 | 39.185 | 0.70656 | -2.3137 | -0.76485 | 0.8819 | 0.93773 |
| 50 | 38.504 | 39.172 | 39.569 | 0.3675 | 36.463 | 37.474 | 38.253 | 0.61758 | -2.4782 | -1.6979 | -1.1328 | 0.40437 |

# Device Test: 16.40  EN_SLEW_RATE_RISE(_LEVEL|RISE/EN4/7/14/0/0/0/@EN_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

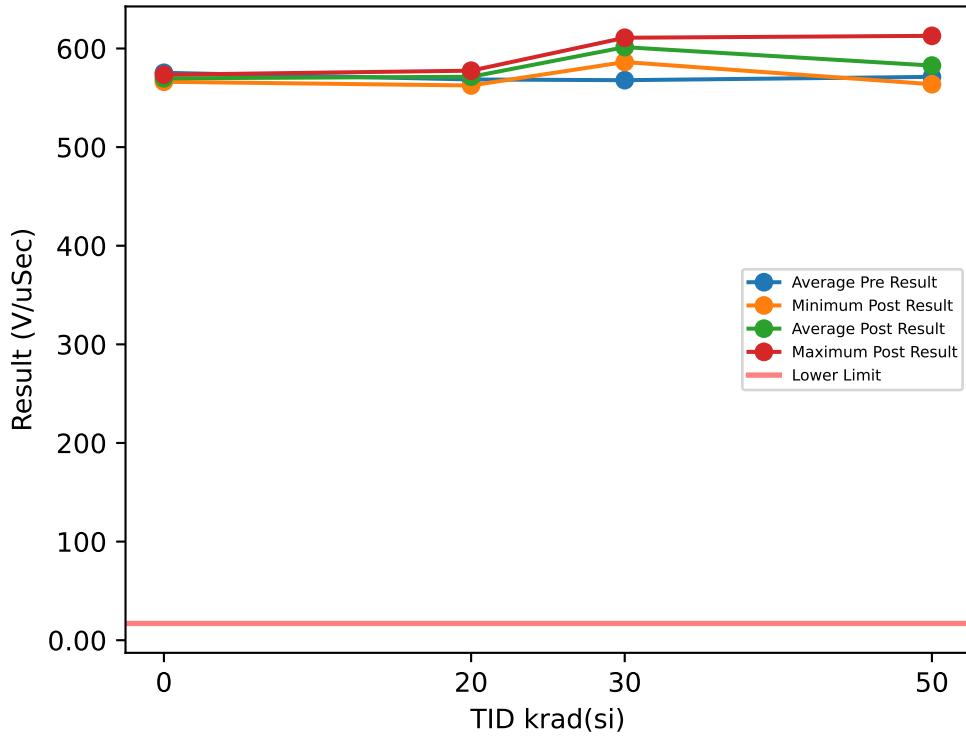| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 589.07 | 589.59 | 0.5211 |
| 2 | 20 | Bias | 592.03 | 586.96 | -5.0708 |
| 3 | 20 | Bias | 587.98 | 588.03 | 0.0508 |
| 4 | 20 | Bias | 587.95 | 592.78 | 4.8275 |
| 5 | 20 | Bias | 589.64 | 593.42 | 3.7834 |
| 6 | 20 | Unbiased | 590.95 | 588.89 | -2.0528 |
| 7 | 20 | Unbiased | 588.43 | 594.63 | 6.1942 |
| 8 | 20 | Unbiased | 588.56 | 585.2 | -3.3572 |
| 9 | 20 | Unbiased | 594.03 | 591.67 | -2.3604 |
| 10 | 20 | Unbiased | 595.12 | 596.71 | 1.5951 |
| 11 | 30 | Bias | 589.67 | 624.89 | 35.22 |
| 12 | 30 | Bias | 591.5 | 613.6 | 22.1 |
| 13 | 30 | Bias | 586.45 | 621.4 | 34.951 |
| 14 | 30 | Bias | 590.29 | 619.12 | 28.83 |
| 15 | 30 | Bias | 584.54 | 626.99 | 42.444 |
| 16 | 30 | Unbiased | 591.48 | 618.06 | 26.584 |
| 17 | 30 | Unbiased | 594.25 | 622.56 | 28.314 |
| 18 | 30 | Unbiased | 588.97 | 615.3 | 26.331 |
| 19 | 30 | Unbiased | 589.14 | 621.96 | 32.814 |
| 20 | 30 | Unbiased | 591.97 | 610.59 | 18.619 |
| 21 | 50 | Bias | 587.47 | 615.92 | 28.45 |
| 22 | 50 | Bias | 589.75 | 619.51 | 29.762 |
| 23 | 50 | Bias | 594.63 | 613.47 | 18.839 |
| 24 | 50 | Bias | 591.48 | 620.39 | 28.918 |
| 25 | 50 | Bias | 597.25 | 597.75 | 0.4989 |
| 26 | 50 | Unbiased | 588.43 | 586.91 | -1.5172 |
| 27 | 50 | Unbiased | 594.22 | 591.7 | -2.5192 |
| 28 | 50 | Unbiased | 589.97 | 587.24 | -2.7348 |
| 29 | 50 | Unbiased | 590.31 | 588.86 | -1.4494 |
| 30 | 50 | Unbiased | 592.08 | 587.94 | -4.1414 |
| 31 | 0 | Correlation | 585.5 | 589.33 | 3.8264 |
| 32 | 0 | Correlation | 585.65 | 585.93 | 0.2742 |
| 33 | 0 | Correlation | 590.69 | 591.52 | 0.8283 |
| 34 | 0 | Correlation | 594.53 | 587.26 | -7.2702 |

## Test Statistics (V/uSec)
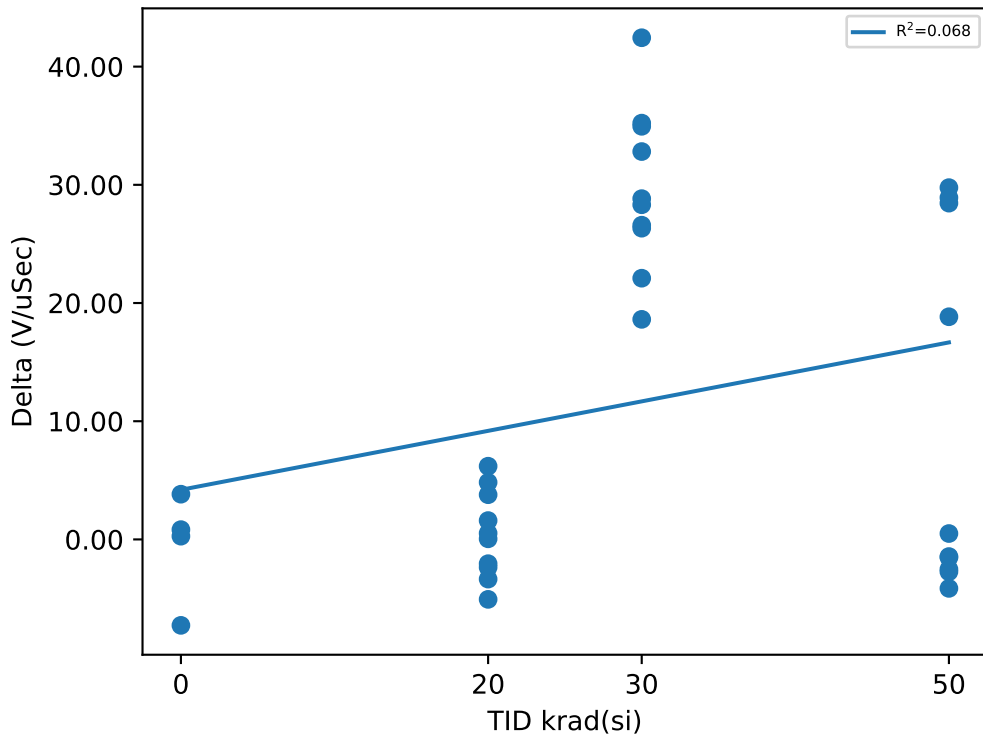
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 585.5 | 589.09 | 594.53 | 4.3541 | 585.93 | 588.51 | 591.52 | 2.4479 | -7.2702 | -0.58533 | 3.8264 | 4.7219 |
| 20 | 587.95 | 590.38 | 595.12 | 2.5783 | 585.2 | 590.79 | 596.71 | 3.6513 | -5.0708 | 0.41309 | 6.1942 | 3.7099 |
| 30 | 584.54 | 589.83 | 594.25 | 2.7972 | 610.59 | 619.45 | 626.99 | 5.1447 | 18.619 | 29.621 | 42.444 | 6.9471 |
| 50 | 587.47 | 591.56 | 597.25 | 3.0377 | 586.91 | 600.97 | 620.39 | 14.529 | -4.1414 | 9.4106 | 29.762 | 15.042 |
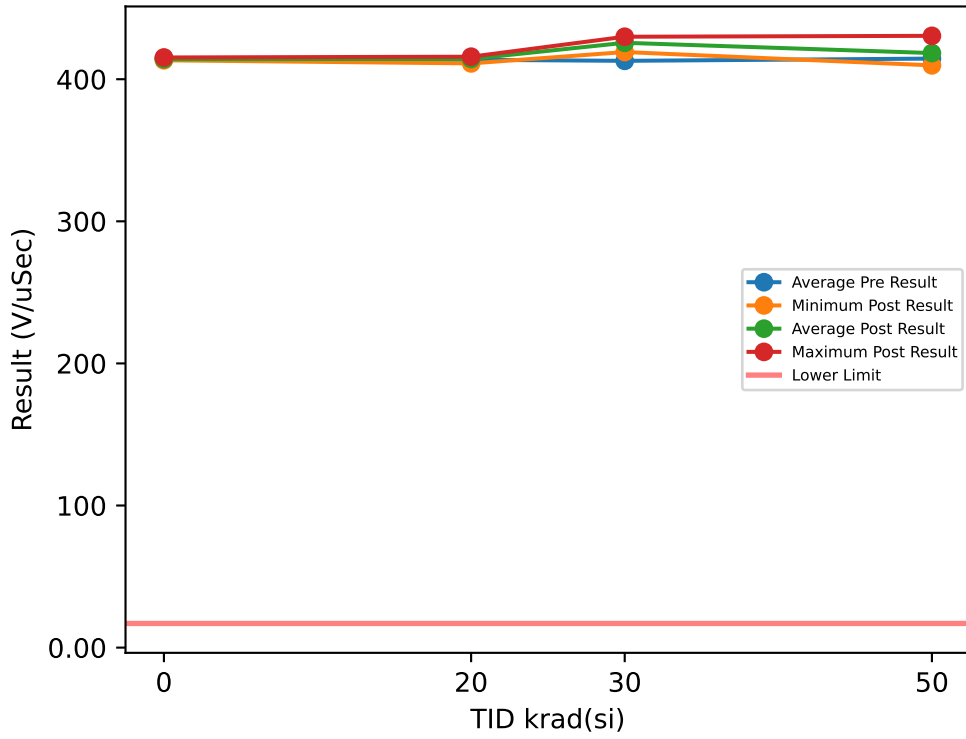
# Device Test: 16.41 PWRGD_SLEW_RATE_RISE(_LEVEL|RISE/PWRGD/7/14/0/0/0/@PWRGD_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 412.28 | 414 | 1.7293 |
| 2 | 20 | Bias | 412.54 | 414.25 | 1.715 |
| 3 | 20 | Bias | 412.35 | 414.15 | 1.8043 |
| 4 | 20 | Bias | 414.98 | 414.09 | -0.8893 |
| 5 | 20 | Bias | 414.39 | 415.59 | 1.1919 |
| 6 | 20 | Unbiased | 414.05 | 415.55 | 1.4985 |
| 7 | 20 | Unbiased | 413.25 | 413.53 | 0.2778 |
| 8 | 20 | Unbiased | 412.02 | 411.13 | -0.8872 |
| 9 | 20 | Unbiased | 414.66 | 414.69 | 0.0315 |
| 10 | 20 | Unbiased | 416.26 | 415.85 | -0.411 |
| 11 | 30 | Bias | 411.08 | 427.76 | 16.681 |
| 12 | 30 | Bias | 413.12 | 424.96 | 11.835 |
| 13 | 30 | Bias | 412.54 | 429.9 | 17.363 |
| 14 | 30 | Bias | 412.58 | 421.81 | 9.2343 |
| 15 | 30 | Bias | 412.29 | 427.55 | 15.26 |
| 16 | 30 | Unbiased | 415.45 | 424.51 | 9.0586 |
| 17 | 30 | Unbiased | 412.66 | 429.89 | 17.227 |
| 18 | 30 | Unbiased | 413.34 | 425.93 | 12.588 |
| 19 | 30 | Unbiased | 412.15 | 424.95 | 12.801 |
| 20 | 30 | Unbiased | 414.18 | 419.13 | 4.9484 |
| 21 | 50 | Bias | 412.96 | 427.78 | 14.828 |
| 22 | 50 | Bias | 413.87 | 430.53 | 16.656 |
| 23 | 50 | Bias | 416.51 | 421.94 | 5.4352 |
| 24 | 50 | Bias | 414.28 | 429.25 | 14.976 |
| 25 | 50 | Bias | 418.84 | 417.65 | -1.1893 |
| 26 | 50 | Unbiased | 410.38 | 409.76 | -0.6221 |
| 27 | 50 | Unbiased | 416.81 | 413.96 | -2.8489 |
| 28 | 50 | Unbiased | 413.16 | 410.19 | -2.9741 |
| 29 | 50 | Unbiased | 414.31 | 412.1 | -2.2162 |
| 30 | 50 | Unbiased | 414.04 | 410.91 | -3.1281 |
| 31 | 0 | Correlation | 412.28 | 413.68 | 1.4054 |
| 32 | 0 | Correlation | 414.1 | 413.32 | -0.7762 |
| 33 | 0 | Correlation | 415.54 | 415.31 | -0.2339 |
| 34 | 0 | Correlation | 417.23 | 414.18 | -3.0528 |

## Test Statistics (V/uSec)
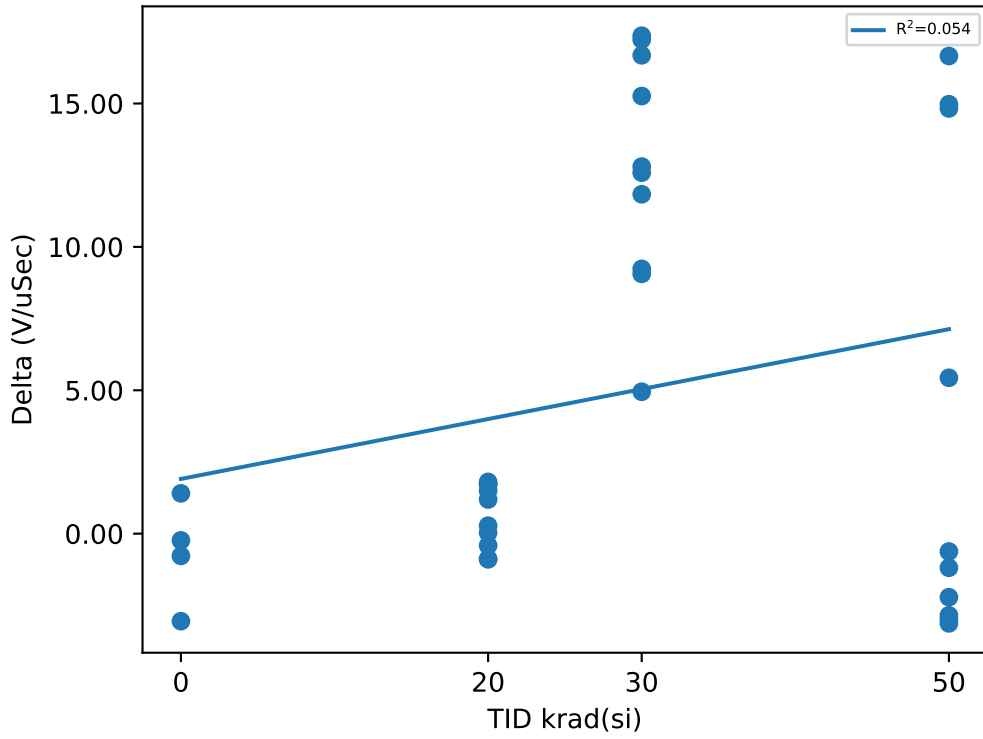
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 412.28 | 414.78 | 417.23 | 2.1069 | 413.32 | 414.12 | 415.31 | 0.86514 | -3.0528 | -0.66437 | 1.4054 | 1.8427 |
| 20 | 412.02 | 413.68 | 416.26 | 1.4127 | 411.13 | 414.28 | 415.85 | 1.3559 | -0.8893 | 0.60608 | 1.8043 | 1.1058 |
| 30 | 411.08 | 412.94 | 415.45 | 1.197 | 419.13 | 425.64 | 429.9 | 3.3944 | 4.9484 | 12.7 | 17.363 | 4.093 |
| 50 | 410.38 | 414.52 | 418.84 | 2.3582 | 409.76 | 418.41 | 430.53 | 8.3247 | -3.1281 | 3.8917 | 16.656 | 8.3874 |

## TID vs Result Stats
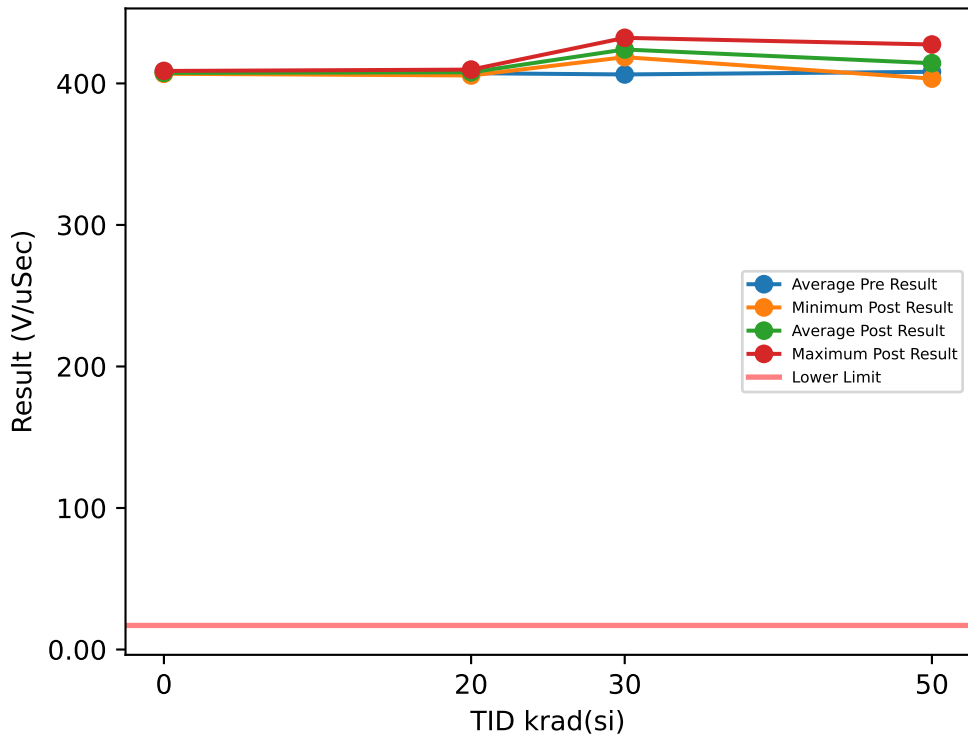


## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

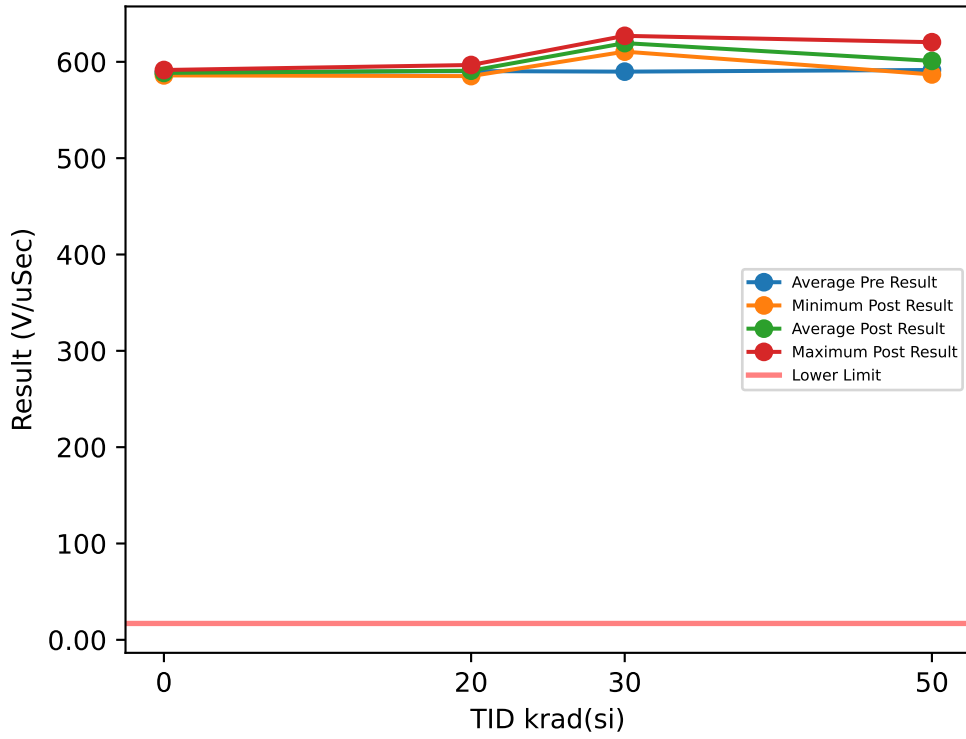| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 404.67 | 407.56 | 2.8915 |
| 2 | 20 | Bias | 404.93 | 405.69 | 0.7562 |
| 3 | 20 | Bias | 405.4 | 405.61 | 0.2127 |
| 4 | 20 | Bias | 407.69 | 409.3 | 1.6166 |
| 5 | 20 | Bias | 408.44 | 409.05 | 0.6144 |
| 6 | 20 | Unbiased | 407.69 | 409.76 | 2.0683 |
| 7 | 20 | Unbiased | 406.81 | 408.16 | 1.3564 |
| 8 | 20 | Unbiased | 408.08 | 406.37 | -1.7116 |
| 9 | 20 | Unbiased | 407.72 | 407.53 | -0.1811 |
| 10 | 20 | Unbiased | 410.79 | 409.48 | -1.3097 |
| 11 | 30 | Bias | 403.72 | 424.63 | 20.916 |
| 12 | 30 | Bias | 405.32 | 420.87 | 15.551 |
| 13 | 30 | Bias | 405.32 | 418.56 | 13.234 |
| 14 | 30 | Bias | 405.34 | 422.73 | 17.393 |
| 15 | 30 | Bias | 407.05 | 426.41 | 19.357 |
| 16 | 30 | Unbiased | 408.3 | 421.98 | 13.677 |
| 17 | 30 | Unbiased | 407.71 | 432.21 | 24.501 |
| 18 | 30 | Unbiased | 407.18 | 427.08 | 19.9 |
| 19 | 30 | Unbiased | 403.87 | 420.48 | 16.607 |
| 20 | 30 | Unbiased | 409.63 | 424.85 | 15.223 |
| 21 | 50 | Bias | 407.52 | 427.5 | 19.978 |
| 22 | 50 | Bias | 407.6 | 423.34 | 15.748 |
| 23 | 50 | Bias | 410.07 | 422.23 | 12.165 |
| 24 | 50 | Bias | 409.35 | 426.64 | 17.296 |
| 25 | 50 | Bias | 411.83 | 411.14 | -0.6826 |
| 26 | 50 | Unbiased | 405.47 | 403.4 | -2.0645 |
| 27 | 50 | Unbiased | 410.74 | 407.45 | -3.2905 |
| 28 | 50 | Unbiased | 404.94 | 405.74 | 0.8005 |
| 29 | 50 | Unbiased | 405.83 | 407.31 | 1.4832 |
| 30 | 50 | Unbiased | 408.75 | 408.14 | -0.6097 |
| 31 | 0 | Correlation | 407.84 | 408.81 | 0.9792 |
| 32 | 0 | Correlation | 408.56 | 407.27 | -1.2902 |
| 33 | 0 | Correlation | 407.75 | 406.86 | -0.895 |
| 34 | 0 | Correlation | 410.06 | 406.81 | -3.2455 |

## Test Statistics (V/uSec)
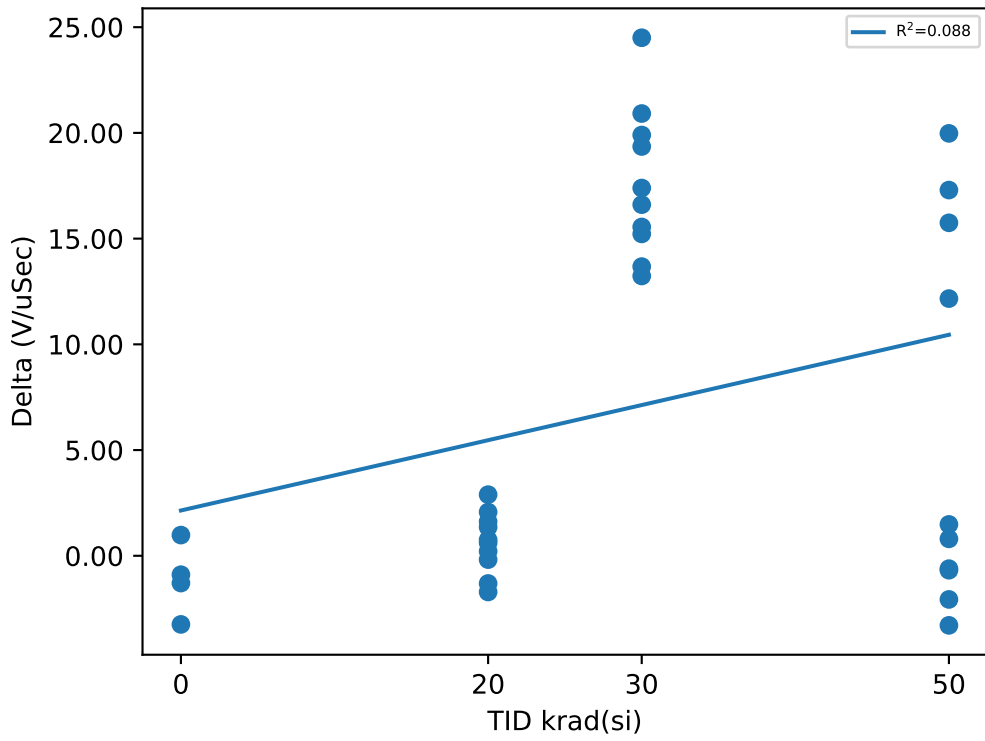
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 407.75 | 408.55 | 410.06 | 1.0695 | 406.81 | 407.44 | 408.81 | 0.93985 | -3.2455 | -1.1129 | 0.9792 | 1.7324 |
| 20 | 404.67 | 407.22 | 410.79 | 1.8525 | 405.61 | 407.85 | 409.76 | 1.5646 | -1.7116 | 0.63137 | 2.8915 | 1.4444 |
| 30 | 403.72 | 406.34 | 409.63 | 1.938 | 418.56 | 423.98 | 432.21 | 3.9627 | 13.234 | 17.636 | 24.501 | 3.5327 |
| 50 | 404.94 | 408.21 | 411.83 | 2.3397 | 403.4 | 414.29 | 427.5 | 9.4685 | -3.2905 | 6.0823 | 19.978 | 9.0864 |

# Device Test: 16.43  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN1/7/14/0/0/0/@EN_SLEW_RATE_FALL )
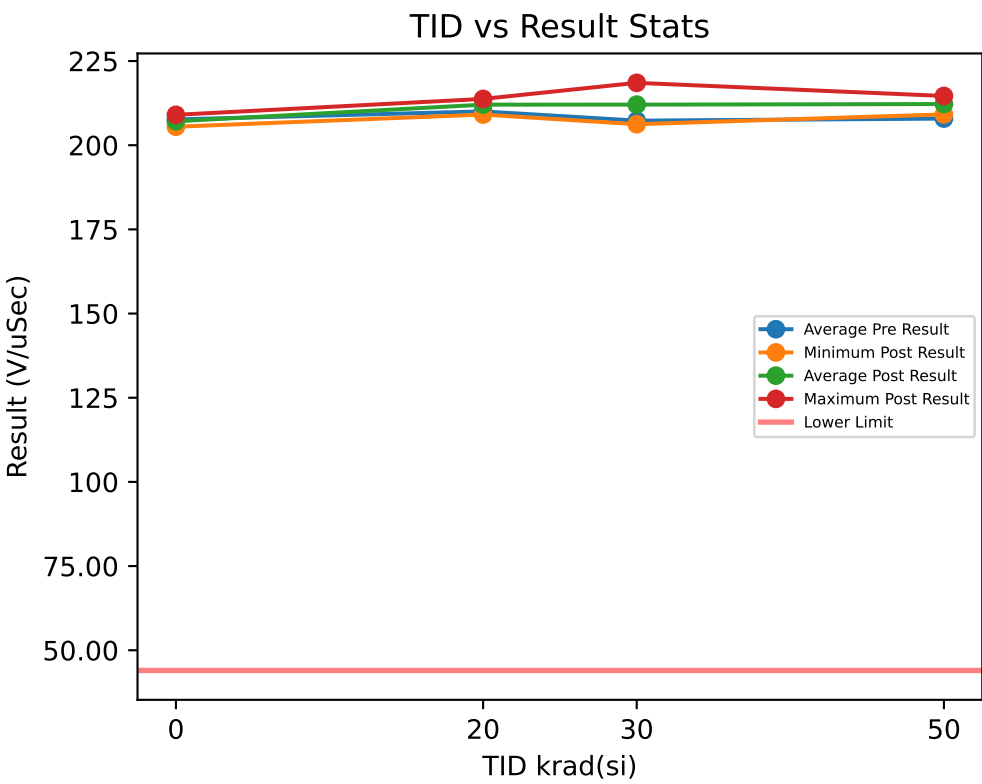
## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 210.07 | 212.24 | 2.177 |
| 2 | 20 | Bias | 210.09 | 211.97 | 1.8757 |
| 3 | 20 | Bias | 210.17 | 211.37 | 1.1977 |
| 4 | 20 | Bias | 210.33 | 213.08 | 2.7525 |
| 5 | 20 | Bias | 210.59 | 210.97 | 0.3813 |
| 6 | 20 | Unbiased | 210.65 | 212.79 | 2.1383 |
| 7 | 20 | Unbiased | 209.63 | 213.44 | 3.8169 |
| 8 | 20 | Unbiased | 212.3 | 213.75 | 1.4557 |
| 9 | 20 | Unbiased | 209.36 | 211.72 | 2.3639 |
| 10 | 20 | Unbiased | 207.2 | 209.1 | 1.9062 |
| 11 | 30 | Bias | 209.59 | 212.48 | 2.8986 |
| 12 | 30 | Bias | 204.07 | 213.55 | 9.4797 |
| 13 | 30 | Bias | 206.78 | 209.2 | 2.4239 |
| 14 | 30 | Bias | 207.58 | 213.19 | 5.6117 |
| 15 | 30 | Bias | 202.46 | 212.03 | 9.5727 |
| 16 | 30 | Unbiased | 214.69 | 206.24 | -8.4538 |
| 17 | 30 | Unbiased | 208.19 | 218.53 | 10.333 |
| 18 | 30 | Unbiased | 207.23 | 214.31 | 7.0812 |
| 19 | 30 | Unbiased | 205.09 | 211.92 | 6.8312 |
| 20 | 30 | Unbiased | 207.32 | 209.09 | 1.7696 |
| 21 | 50 | Bias | 208.41 | 212.3 | 3.8863 |
| 22 | 50 | Bias | 206.45 | 212.26 | 5.814 |
| 23 | 50 | Bias | 208.06 | 210.24 | 2.1855 |
| 24 | 50 | Bias | 208.18 | 214.29 | 6.101 |
| 25 | 50 | Bias | 209.35 | 213.69 | 4.3337 |
| 26 | 50 | Unbiased | 208.14 | 211.48 | 3.3366 |
| 27 | 50 | Unbiased | 209.58 | 213.71 | 4.1311 |
| 28 | 50 | Unbiased | 203.65 | 209.16 | 5.5075 |
| 29 | 50 | Unbiased | 207.31 | 210.53 | 3.2219 |
| 30 | 50 | Unbiased | 209.96 | 214.63 | 4.67 |
| 31 | 0 | Correlation | 205.18 | 205.49 | 0.313 |
| 32 | 0 | Correlation | 209.19 | 209.02 | -0.1682 |
| 33 | 0 | Correlation | 206.93 | 206.89 | -0.0361 |
| 34 | 0 | Correlation | 209.35 | 207.03 | -2.3195 |

## Test Statistics (V/uSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 205.18 | 207.66 | 209.35 | 1.9918 | 205.49 | 207.11 | 209.02 | 1.4545 | -2.3195 | -0.5527 | 0.313 | 1.1952 |
| 20 | 207.2 | 210.04 | 212.3 | 1.2733 | 209.1 | 212.04 | 213.75 | 1.3709 | 0.3813 | 2.0065 | 3.8169 | 0.921 |
| 30 | 202.46 | 207.3 | 214.69 | 3.3285 | 206.24 | 212.05 | 218.53 | 3.3591 | -8.4538 | 4.7548 | 10.333 | 5.5714 |
| 50 | 203.65 | 207.91 | 209.96 | 1.8295 | 209.16 | 212.23 | 214.63 | 1.8607 | 2.1855 | 4.3188 | 6.101 | 1.2423 |

# Device Test: 16.44  EN_SLEW_RATE_FALL(_LEVEL|FALL/EN2/7/14/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 202.37 | 203.51 | 1.1464 |
| 2 | 20 | Bias | 201.05 | 204.15 | 3.1028 |
| 3 | 20 | Bias | 199.29 | 201.79 | 2.4994 |
| 4 | 20 | Bias | 209.64 | 210.44 | 0.7979 |
| 5 | 20 | Bias | 203.02 | 204.77 | 1.7554 |
| 6 | 20 | Unbiased | 203.39 | 206.29 | 2.8946 |
| 7 | 20 | Unbiased | 203.28 | 205.29 | 2.0092 |
| 8 | 20 | Unbiased | 202.39 | 204.56 | 2.1712 |
| 9 | 20 | Unbiased | 206.23 | 209.26 | 3.0307 |
| 10 | 20 | Unbiased | 205.95 | 206.75 | 0.8037 |
| 11 | 30 | Bias | 201.24 | 204.57 | 3.3263 |
| 12 | 30 | Bias | 196.38 | 206.38 | 10.003 |
| 13 | 30 | Bias | 200.28 | 200.6 | 0.327 |
| 14 | 30 | Bias | 203.17 | 204.81 | 1.6346 |
| 15 | 30 | Bias | 200.56 | 209.29 | 8.735 |
| 16 | 30 | Unbiased | 209.33 | 205.68 | -3.6511 |
| 17 | 30 | Unbiased | 204.04 | 215.84 | 11.8 |
| 18 | 30 | Unbiased | 202.9 | 210.27 | 7.3685 |
| 19 | 30 | Unbiased | 201.11 | 206.78 | 5.6713 |
| 20 | 30 | Unbiased | 202.43 | 204.73 | 2.3034 |
| 21 | 50 | Bias | 201.93 | 207.72 | 5.7914 |
| 22 | 50 | Bias | 202.1 | 206.14 | 4.0429 |
| 23 | 50 | Bias | 207.21 | 206.36 | -0.8541 |
| 24 | 50 | Bias | 204.39 | 211.08 | 6.6881 |
| 25 | 50 | Bias | 204.65 | 207.1 | 2.4524 |
| 26 | 50 | Unbiased | 201.49 | 206.68 | 5.1982 |
| 27 | 50 | Unbiased | 203.97 | 208.04 | 4.0639 |
| 28 | 50 | Unbiased | 203.75 | 208.7 | 4.9488 |
| 29 | 50 | Unbiased | 199.93 | 203.53 | 3.5999 |
| 30 | 50 | Unbiased | 202.84 | 208.06 | 5.2189 |
| 31 | 0 | Correlation | 204.99 | 203.36 | -1.6288 |
| 32 | 0 | Correlation | 204.23 | 203.93 | -0.301 |
| 33 | 0 | Correlation | 201.25 | 200.03 | -1.2141 |
| 34 | 0 | Correlation | 202.94 | 202.02 | -0.9239 |

## Test Statistics (V/uSec)
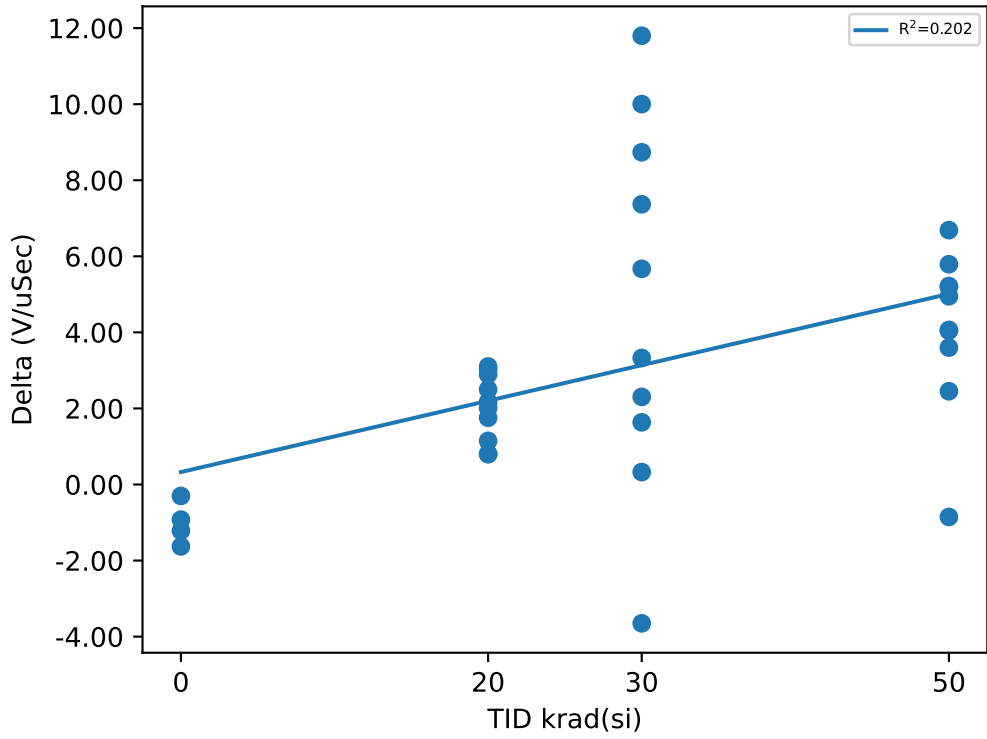
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 201.25 | 203.35 | 204.99 | 1.6395 | 200.03 | 202.33 | 203.93 | 1.7331 | -1.6288 | -1.0169 | -0.301 | 0.55811 |
| 20 | 199.29 | 203.66 | 209.64 | 2.9334 | 201.79 | 205.68 | 210.44 | 2.6112 | 0.7979 | 2.0211 | 3.1028 | 0.88304 |
| 30 | 196.38 | 202.14 | 209.33 | 3.3009 | 200.6 | 206.9 | 215.84 | 4.1231 | -3.6511 | 4.7517 | 11.8 | 4.8159 |
| 50 | 199.93 | 203.23 | 207.21 | 2.0305 | 203.53 | 207.34 | 211.08 | 1.9551 | -0.8541 | 4.115 | 6.6881 | 2.1147 |

# Device Test: 16.45 EN_SLEW_RATE_FALL(_LEVEL|FALL/EN3/7/14/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 201.45 | 205.78 | 4.327 |
| 2 | 20 | Bias | 201.68 | 202.54 | 0.8633 |
| 3 | 20 | Bias | 199.42 | 201.06 | 1.6414 |
| 4 | 20 | Bias | 209.41 | 209.33 | -0.0708 |
| 5 | 20 | Bias | 205.94 | 208.1 | 2.1584 |
| 6 | 20 | Unbiased | 204.47 | 209.11 | 4.6377 |
| 7 | 20 | Unbiased | 204.02 | 207.58 | 3.5601 |
| 8 | 20 | Unbiased | 203.97 | 204.37 | 0.3968 |
| 9 | 20 | Unbiased | 206.27 | 209.48 | 3.2097 |
| 10 | 20 | Unbiased | 203.87 | 206.59 | 2.7165 |
| 11 | 30 | Bias | 200.87 | 205.52 | 4.6482 |
| 12 | 30 | Bias | 197 | 204.67 | 7.6719 |
| 13 | 30 | Bias | 202.53 | 199.62 | -2.9181 |
| 14 | 30 | Bias | 201.83 | 203.69 | 1.8577 |
| 15 | 30 | Bias | 201.53 | 207.84 | 6.3054 |
| 16 | 30 | Unbiased | 207.59 | 204.76 | -2.8309 |
| 17 | 30 | Unbiased | 205.34 | 215.11 | 9.766 |
| 18 | 30 | Unbiased | 203.56 | 209.09 | 5.5312 |
| 19 | 30 | Unbiased | 202.37 | 204.68 | 2.3016 |
| 20 | 30 | Unbiased | 201.03 | 206.87 | 5.8432 |
| 21 | 50 | Bias | 201.17 | 204.26 | 3.0974 |
| 22 | 50 | Bias | 203.13 | 204.9 | 1.777 |
| 23 | 50 | Bias | 208.01 | 206.53 | -1.4765 |
| 24 | 50 | Bias | 203.6 | 211.29 | 7.6957 |
| 25 | 50 | Bias | 205.67 | 209.26 | 3.5892 |
| 26 | 50 | Unbiased | 200.51 | 204.18 | 3.6694 |
| 27 | 50 | Unbiased | 203.82 | 206.27 | 2.4512 |
| 28 | 50 | Unbiased | 203.35 | 207.6 | 4.2472 |
| 29 | 50 | Unbiased | 200.79 | 203.17 | 2.3815 |
| 30 | 50 | Unbiased | 203.36 | 209.05 | 5.6829 |
| 31 | 0 | Correlation | 203.32 | 204.75 | 1.4252 |
| 32 | 0 | Correlation | 203.24 | 203.21 | -0.0372 |
| 33 | 0 | Correlation | 200.65 | 202.39 | 1.7378 |
| 34 | 0 | Correlation | 202.6 | 202 | -0.5994 |

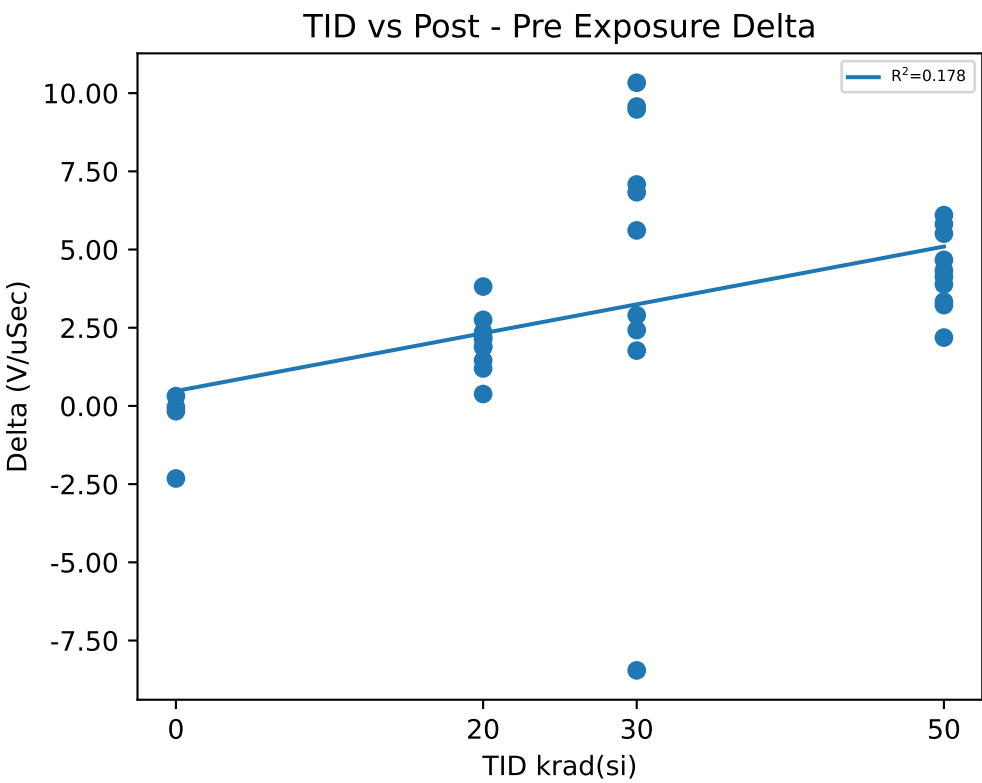## Test Statistics (V/uSec)
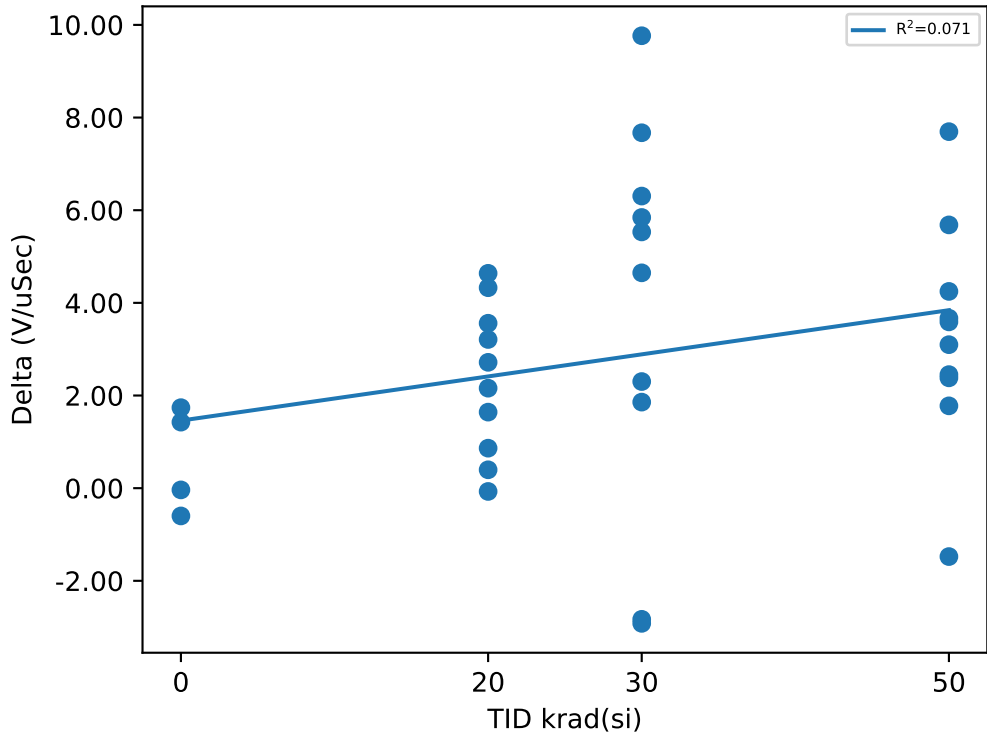
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 200.65 | 202.46 | 203.32 | 1.2445 | 202 | 203.09 | 204.75 | 1.2162 | -0.5994 | 0.6316 | 1.7378 | 1.1278 |
| 20 | 199.42 | 204.05 | 209.41 | 2.8132 | 201.06 | 206.4 | 209.48 | 2.9374 | -0.0708 | 2.344 | 4.6377 | 1.6297 |
| 30 | 197 | 202.37 | 207.59 | 2.8165 | 199.62 | 206.18 | 215.11 | 4.0504 | -2.9181 | 3.8176 | 9.766 | 4.2146 |
| 50 | 200.51 | 203.34 | 208.01 | 2.2806 | 203.17 | 206.65 | 211.29 | 2.6278 | -1.4765 | 3.3115 | 7.6957 | 2.4234 |

# Device Test: 16.46 EN_SLEW_RATE_FALL(_LEVEL|FALL/EN4/7/14/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

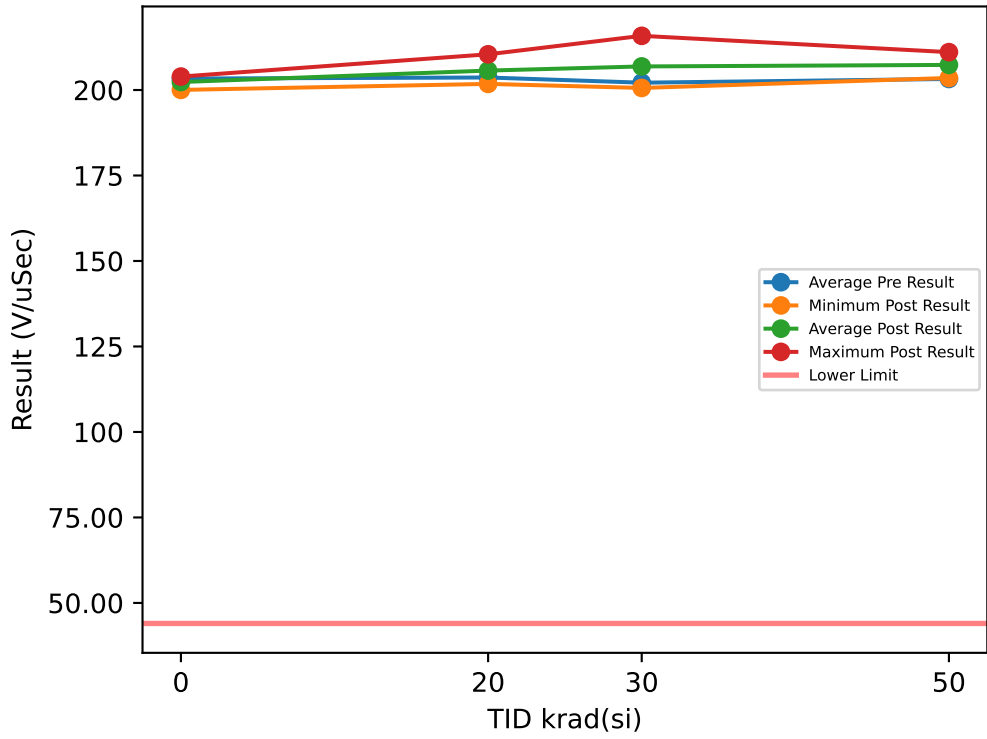| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 202.54 | 205.01 | 2.4707 |
| 2 | 20 | Bias | 202.01 | 205.44 | 3.4227 |
| 3 | 20 | Bias | 201.03 | 202.25 | 1.2254 |
| 4 | 20 | Bias | 208.29 | 211.52 | 3.2289 |
| 5 | 20 | Bias | 203.38 | 204.83 | 1.4455 |
| 6 | 20 | Unbiased | 203.99 | 207.17 | 3.1792 |
| 7 | 20 | Unbiased | 203.9 | 206.3 | 2.4061 |
| 8 | 20 | Unbiased | 204.14 | 206.59 | 2.4488 |
| 9 | 20 | Unbiased | 206.17 | 208.84 | 2.6625 |
| 10 | 20 | Unbiased | 205.52 | 207.47 | 1.9511 |
| 11 | 30 | Bias | 200.69 | 207.21 | 6.5168 |
| 12 | 30 | Bias | 197.6 | 205.39 | 7.7886 |
| 13 | 30 | Bias | 202.05 | 202.76 | 0.7092 |
| 14 | 30 | Bias | 203.09 | 207.76 | 4.6679 |
| 15 | 30 | Bias | 200.87 | 209.32 | 8.4489 |
| 16 | 30 | Unbiased | 208.98 | 205.92 | -3.0681 |
| 17 | 30 | Unbiased | 206.71 | 214.42 | 7.7182 |
| 18 | 30 | Unbiased | 203.23 | 211.87 | 8.6429 |
| 19 | 30 | Unbiased | 201.58 | 208.21 | 6.6257 |
| 20 | 30 | Unbiased | 202.2 | 204.41 | 2.2118 |
| 21 | 50 | Bias | 201.3 | 206.5 | 5.1958 |
| 22 | 50 | Bias | 202.3 | 205.51 | 3.2127 |
| 23 | 50 | Bias | 206.9 | 207.55 | 0.652 |
| 24 | 50 | Bias | 203.95 | 210.54 | 6.5943 |
| 25 | 50 | Bias | 203.58 | 206.84 | 3.2634 |
| 26 | 50 | Unbiased | 201.22 | 205.01 | 3.7834 |
| 27 | 50 | Unbiased | 205.25 | 208.92 | 3.6744 |
| 28 | 50 | Unbiased | 203.56 | 207.73 | 4.1688 |
| 29 | 50 | Unbiased | 200.08 | 203.83 | 3.7549 |
| 30 | 50 | Unbiased | 204.6 | 208.4 | 3.7977 |
| 31 | 0 | Correlation | 203.95 | 204.76 | 0.8124 |
| 32 | 0 | Correlation | 202.51 | 202.69 | 0.176 |
| 33 | 0 | Correlation | 202.15 | 201.65 | -0.5001 |
| 34 | 0 | Correlation | 201.48 | 203.08 | 1.6016 |

## Test Statistics (V/uSec)
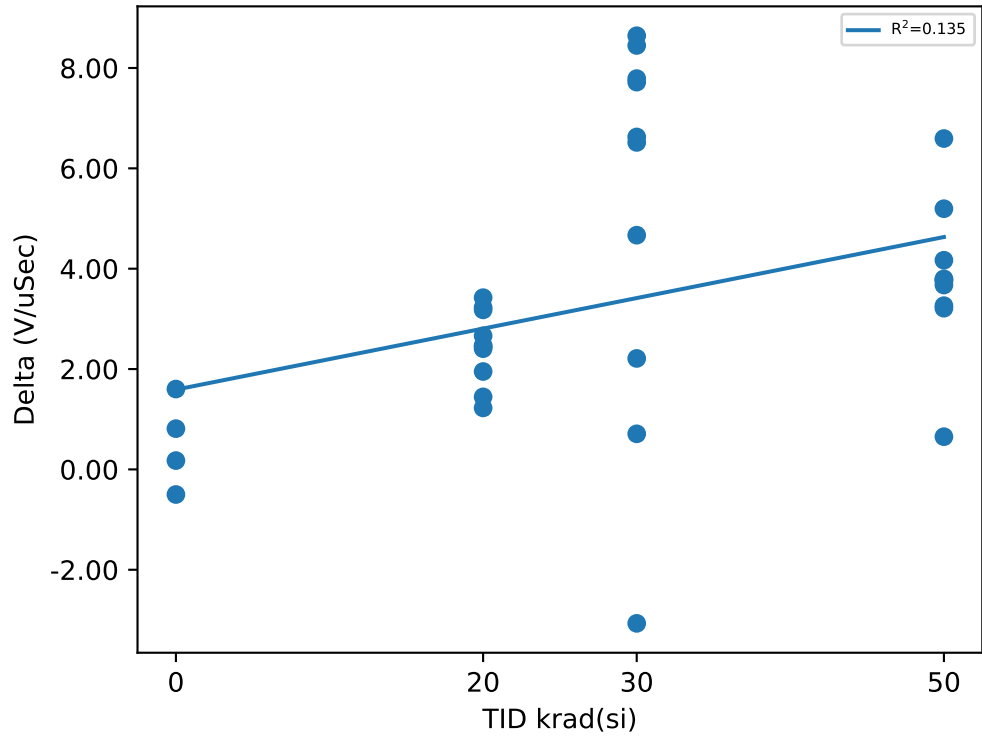
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 201.48 | 202.52 | 203.95 | 1.0429 | 201.65 | 203.05 | 204.76 | 1.2953 | -0.5001 | 0.52248 | 1.6016 | 0.89708 |
| 20 | 201.03 | 204.1 | 208.29 | 2.1256 | 202.25 | 206.54 | 211.52 | 2.5 | 1.2254 | 2.4441 | 3.4227 | 0.73706 |
| 30 | 197.6 | 202.7 | 208.98 | 3.1849 | 202.76 | 207.73 | 214.42 | 3.4885 | -3.0681 | 5.0262 | 8.6429 | 3.8967 |
| 50 | 200.08 | 203.27 | 206.9 | 2.0732 | 203.83 | 207.08 | 210.54 | 1.9854 | 0.652 | 3.8097 | 6.5943 | 1.5075 |
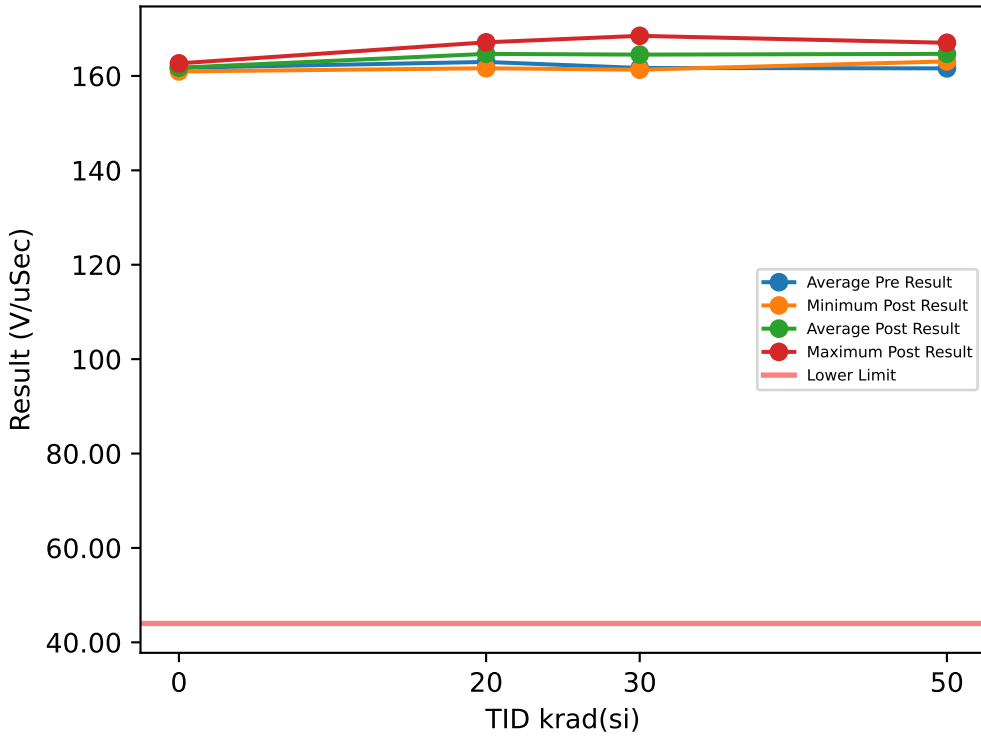
# Device Test: 16.47  PWRGD_SLEW_RATE_FALL(_LEVEL|FALL/PWRGD/7/14/0/0/0/@PWRGD_SLEW_RATE_FALL )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit

## TID vs Post - Pre Exposure Delta



R²=0.264

## Test Results (Lower Limit = 44.0 (V/uSec))

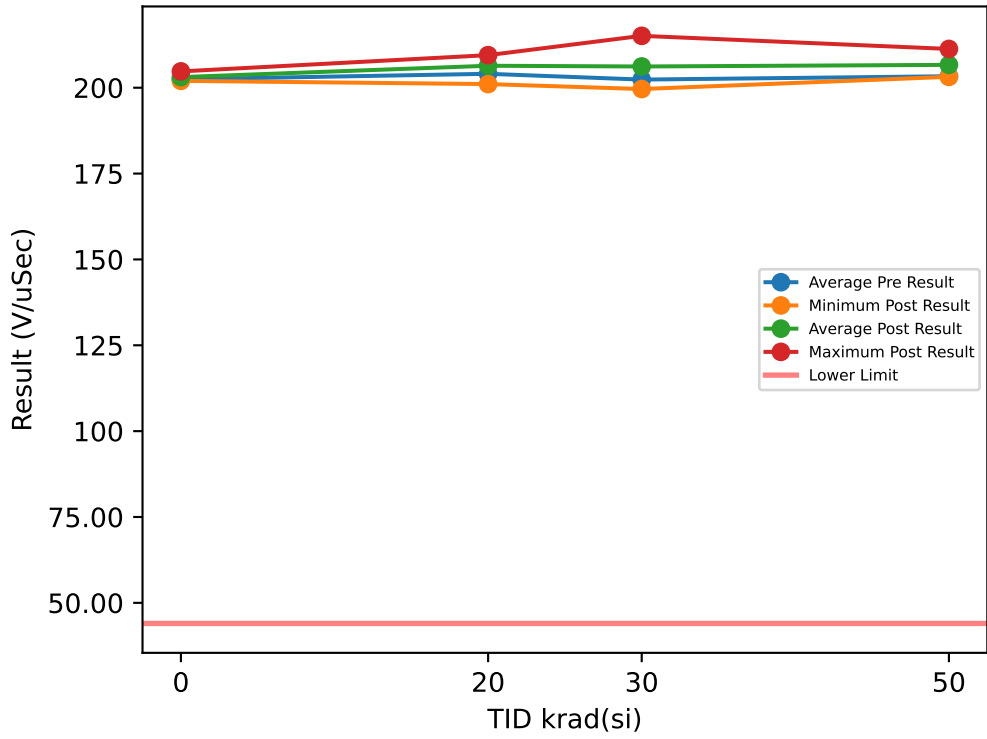| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 161.67 | 163.55 | 1.8797 |
| 2 | 20 | Bias | 161.48 | 163.33 | 1.8489 |
| 3 | 20 | Bias | 159.96 | 161.63 | 1.6662 |
| 4 | 20 | Bias | 165.45 | 167.12 | 1.6703 |
| 5 | 20 | Bias | 162.2 | 163.8 | 1.6019 |
| 6 | 20 | Unbiased | 163.13 | 165.28 | 2.1494 |
| 7 | 20 | Unbiased | 162.88 | 164.47 | 1.5875 |
| 8 | 20 | Unbiased | 163.66 | 165.31 | 1.6462 |
| 9 | 20 | Unbiased | 164.64 | 166.1 | 1.4541 |
| 10 | 20 | Unbiased | 164.6 | 166.14 | 1.5431 |
| 11 | 30 | Bias | 162.07 | 164.2 | 2.1345 |
| 12 | 30 | Bias | 158.25 | 164.91 | 6.6588 |
| 13 | 30 | Bias | 160.5 | 161.32 | 0.8263 |
| 14 | 30 | Bias | 162.75 | 163.89 | 1.142 |
| 15 | 30 | Bias | 160.93 | 165.03 | 4.0967 |
| 16 | 30 | Unbiased | 165.5 | 163.76 | -1.7345 |
| 17 | 30 | Unbiased | 164.46 | 168.5 | 4.041 |
| 18 | 30 | Unbiased | 160.21 | 166.92 | 6.706 |
| 19 | 30 | Unbiased | 161.01 | 163.03 | 2.0253 |
| 20 | 30 | Unbiased | 161.22 | 163.64 | 2.4223 |
| 21 | 50 | Bias | 160.89 | 164.51 | 3.6205 |
| 22 | 50 | Bias | 160.87 | 164.47 | 3.6006 |
| 23 | 50 | Bias | 163.77 | 164.98 | 1.2097 |
| 24 | 50 | Bias | 162.22 | 167.02 | 4.8022 |
| 25 | 50 | Bias | 162.52 | 164.87 | 2.3484 |
| 26 | 50 | Unbiased | 162.11 | 165.33 | 3.2186 |
| 27 | 50 | Unbiased | 161.13 | 163.73 | 2.5976 |
| 28 | 50 | Unbiased | 160.68 | 164.04 | 3.3651 |
| 29 | 50 | Unbiased | 160.17 | 163.08 | 2.9123 |
| 30 | 50 | Unbiased | 161.67 | 164.75 | 3.0769 |
| 31 | 0 | Correlation | 162 | 161.62 | -0.3799 |
| 32 | 0 | Correlation | 162.99 | 162.66 | -0.332 |
| 33 | 0 | Correlation | 162.04 | 161.74 | -0.3025 |
| 34 | 0 | Correlation | 159.86 | 160.96 | 1.0934 |

## Test Statistics (V/uSec)
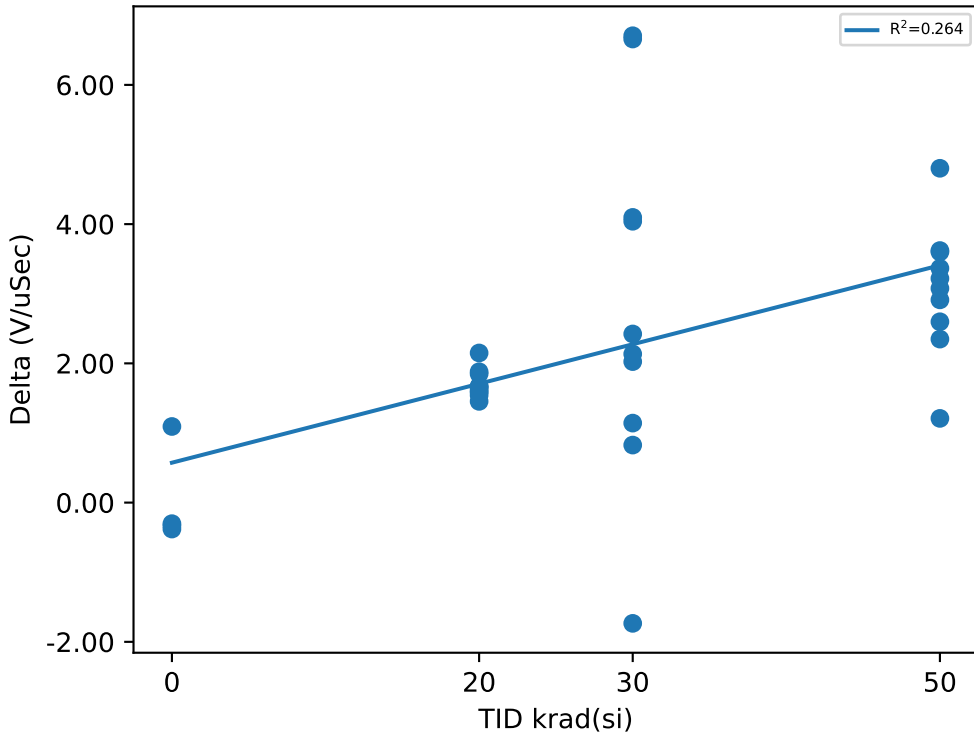
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 159.86 | 161.72 | 162.99 | 1.3216 | 160.96 | 161.74 | 162.66 | 0.70021 | -0.3799 | 0.01975 | 1.0934 | 0.71648 |
| 20 | 159.96 | 162.97 | 165.45 | 1.689 | 161.63 | 164.67 | 167.12 | 1.6363 | 1.4541 | 1.7047 | 2.1494 | 0.20234 |
| 30 | 158.25 | 161.69 | 165.5 | 2.1114 | 161.32 | 164.52 | 168.5 | 2.0073 | -1.7345 | 2.8318 | 6.706 | 2.6194 |
| 50 | 160.17 | 161.6 | 163.77 | 1.0729 | 163.08 | 164.68 | 167.02 | 1.0526 | 1.2097 | 3.0752 | 4.8022 | 0.93829 |

## TID vs Result Stats
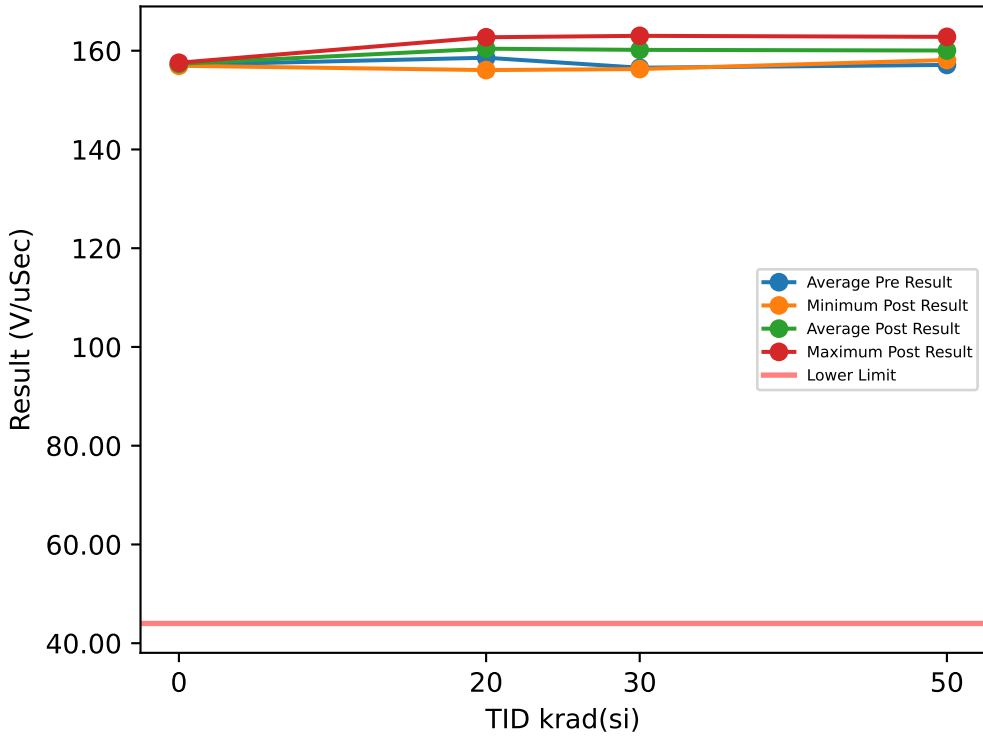
Result (V/uSec) vs TID krad(si)

- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit

## TID vs Post - Pre Exposure Delta

$R^2 = 0.158$

Delta (V/uSec) vs TID krad(si)

## Test Results (Lower Limit = 44.0 (V/uSec))

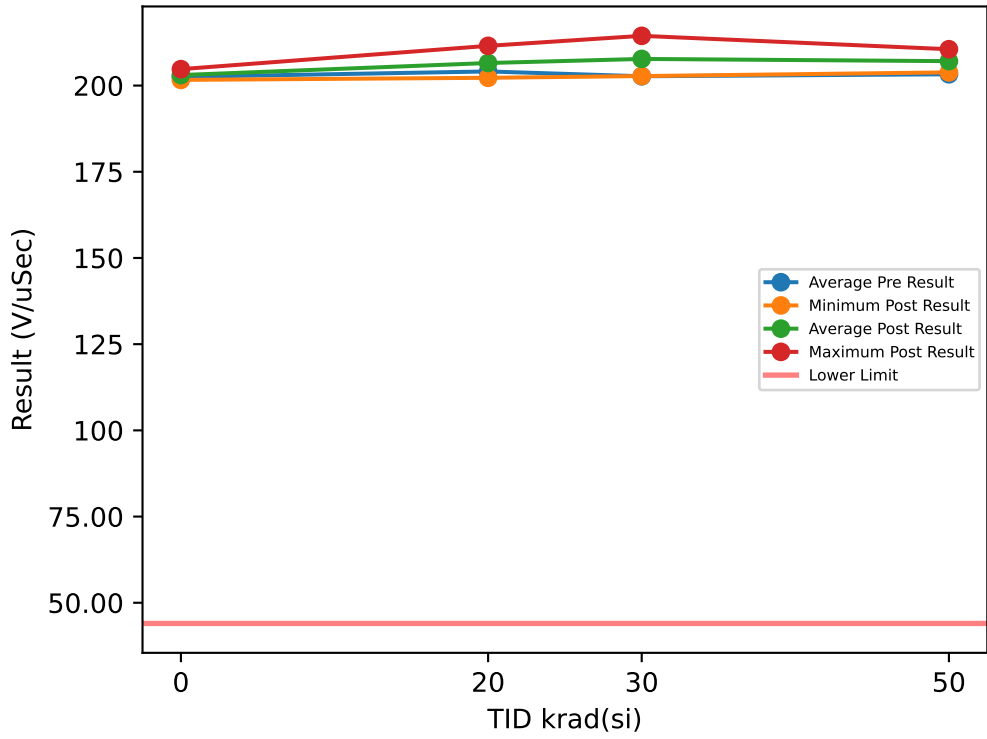| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 157.47 | 159.76 | 2.2836 |
| 2 | 20 | Bias | 157.72 | 159.43 | 1.707 |
| 3 | 20 | Bias | 154.25 | 156.08 | 1.829 |
| 4 | 20 | Bias | 160.04 | 162.72 | 2.6843 |
| 5 | 20 | Bias | 158.82 | 160.04 | 1.2241 |
| 6 | 20 | Unbiased | 158.78 | 161.25 | 2.4712 |
| 7 | 20 | Unbiased | 158.94 | 161.35 | 2.4019 |
| 8 | 20 | Unbiased | 160.33 | 161.45 | 1.1194 |
| 9 | 20 | Unbiased | 159.99 | 161.55 | 1.5566 |
| 10 | 20 | Unbiased | 159.46 | 160.47 | 1.0111 |
| 11 | 30 | Bias | 156.44 | 160.08 | 3.6436 |
| 12 | 30 | Bias | 153.64 | 160.36 | 6.7244 |
| 13 | 30 | Bias | 156.53 | 156.28 | -0.2414 |
| 14 | 30 | Bias | 157.63 | 160.12 | 2.492 |
| 15 | 30 | Bias | 156.39 | 161.54 | 5.1448 |
| 16 | 30 | Unbiased | 159.5 | 159.58 | 0.0841 |
| 17 | 30 | Unbiased | 158.99 | 161.99 | 2.9973 |
| 18 | 30 | Unbiased | 154.26 | 163.01 | 8.7548 |
| 19 | 30 | Unbiased | 156.63 | 157.9 | 1.2644 |
| 20 | 30 | Unbiased | 155.54 | 160.85 | 5.3115 |
| 21 | 50 | Bias | 156.64 | 159.37 | 2.7261 |
| 22 | 50 | Bias | 157.4 | 159.94 | 2.5373 |
| 23 | 50 | Bias | 159.04 | 161.32 | 2.2867 |
| 24 | 50 | Bias | 157.28 | 162.81 | 5.5236 |
| 25 | 50 | Bias | 158.05 | 159.72 | 1.6727 |
| 26 | 50 | Unbiased | 155.41 | 158.11 | 2.7065 |
| 27 | 50 | Unbiased | 156.89 | 159.55 | 2.656 |
| 28 | 50 | Unbiased | 157.61 | 160.55 | 2.9467 |
| 29 | 50 | Unbiased | 155.39 | 158.29 | 2.894 |
| 30 | 50 | Unbiased | 157.5 | 160.73 | 3.2284 |
| 31 | 0 | Correlation | 157.3 | 157.38 | 0.0831 |
| 32 | 0 | Correlation | 157.72 | 157.56 | -0.1565 |
| 33 | 0 | Correlation | 158.57 | 157.49 | -1.0777 |
| 34 | 0 | Correlation | 154.92 | 156.95 | 2.0294 |

## Test Statistics (V/uSec)
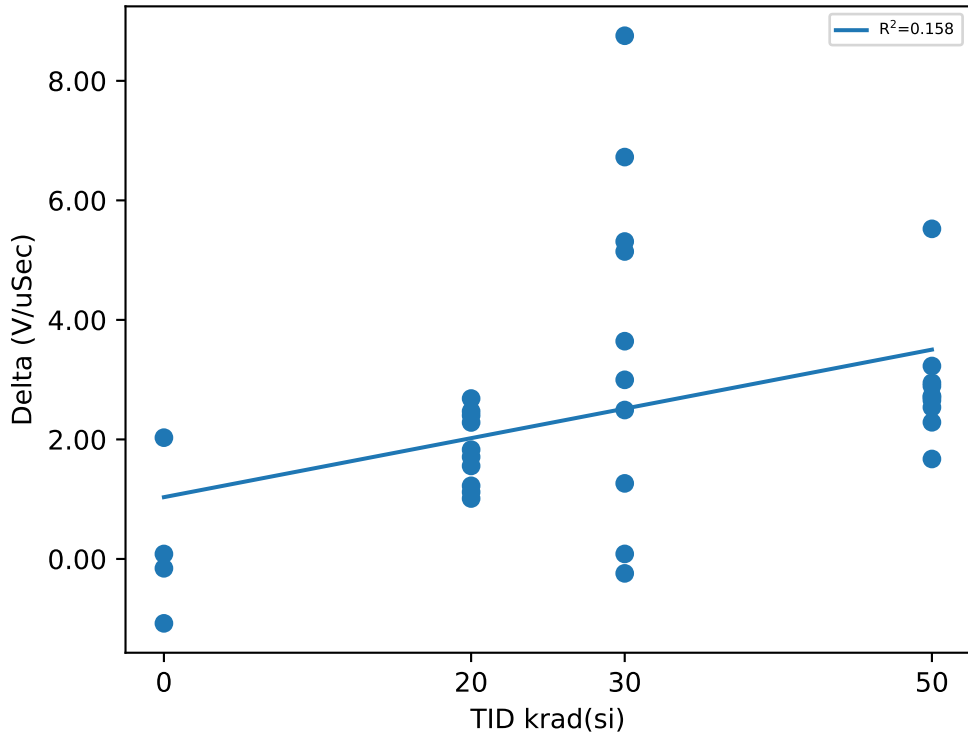
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 154.92 | 157.13 | 158.57 | 1.5627 | 156.95 | 157.35 | 157.56 | 0.27469 | -1.0777 | 0.21958 | 2.0294 | 1.3062 |
| 20 | 154.25 | 158.58 | 160.33 | 1.7922 | 156.08 | 160.41 | 162.72 | 1.8136 | 1.0111 | 1.8288 | 2.6843 | 0.60611 |
| 30 | 153.64 | 156.55 | 159.5 | 1.8442 | 156.28 | 160.17 | 163.01 | 1.9538 | -0.2414 | 3.6176 | 8.7548 | 2.9023 |
| 50 | 155.39 | 157.12 | 159.04 | 1.1162 | 158.11 | 160.04 | 162.81 | 1.3998 | 1.6727 | 2.9178 | 5.5236 | 1.0073 |
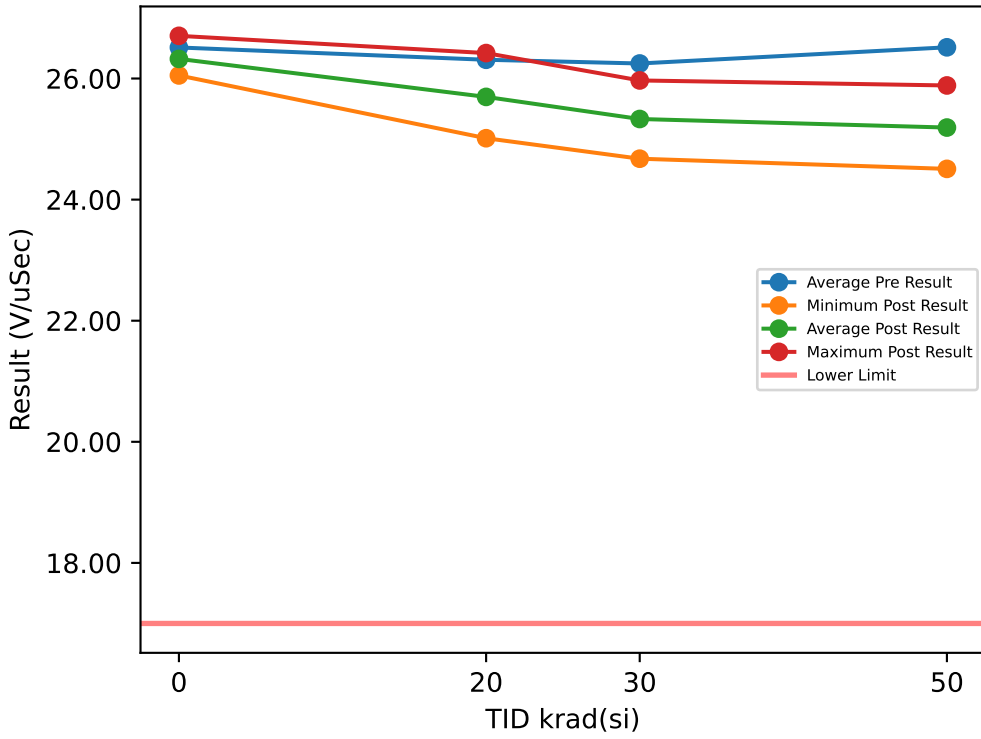
# Device Test: 16.5   PWRGD_SLEW_RATE_RISE(_LEVEL|RISE/PWRGD/1.6/3/0/0/0/@PWRGD_SLEW_RATE_RISE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 25.733 | 25.014 | -0.7188 |
| 2 | 20 | Bias | 25.718 | 25.107 | -0.6114 |
| 3 | 20 | Bias | 25.828 | 25.022 | -0.8059 |
| 4 | 20 | Bias | 26.943 | 26.172 | -0.7716 |
| 5 | 20 | Bias | 26.435 | 25.932 | -0.5032 |
| 6 | 20 | Unbiased | 26.413 | 25.864 | -0.549 |
| 7 | 20 | Unbiased | 26.419 | 25.728 | -0.6911 |
| 8 | 20 | Unbiased | 26.831 | 26.42 | -0.4108 |
| 9 | 20 | Unbiased | 26.256 | 25.745 | -0.5109 |
| 10 | 20 | Unbiased | 26.521 | 25.96 | -0.5608 |
| 11 | 30 | Bias | 25.61 | 25.446 | -0.1638 |
| 12 | 30 | Bias | 26.123 | 24.676 | -1.447 |
| 13 | 30 | Bias | 26.277 | 24.995 | -1.2822 |
| 14 | 30 | Bias | 26.349 | 25.308 | -1.042 |
| 15 | 30 | Bias | 25.921 | 25.418 | -0.5029 |
| 16 | 30 | Unbiased | 26.753 | 25.056 | -1.6961 |
| 17 | 30 | Unbiased | 26.47 | 25.968 | -0.5015 |
| 18 | 30 | Unbiased | 26.317 | 25.732 | -0.585 |
| 19 | 30 | Unbiased | 26.001 | 25.685 | -0.3164 |
| 20 | 30 | Unbiased | 26.661 | 25.03 | -1.6309 |
| 21 | 50 | Bias | 26.574 | 25.297 | -1.2778 |
| 22 | 50 | Bias | 26.343 | 25.307 | -1.0354 |
| 23 | 50 | Bias | 26.385 | 25.235 | -1.1507 |
| 24 | 50 | Bias | 26.683 | 25.3 | -1.3827 |
| 25 | 50 | Bias | 27.407 | 25.885 | -1.5218 |
| 26 | 50 | Unbiased | 26.198 | 24.879 | -1.3186 |
| 27 | 50 | Unbiased | 26.919 | 25.457 | -1.462 |
| 28 | 50 | Unbiased | 25.922 | 24.508 | -1.4141 |
| 29 | 50 | Unbiased | 26.331 | 24.863 | -1.4681 |
| 30 | 50 | Unbiased | 26.39 | 25.169 | -1.2207 |
| 31 | 0 | Correlation | 25.935 | 26.051 | 0.116 |
| 32 | 0 | Correlation | 26.38 | 26.312 | -0.0677 |
| 33 | 0 | Correlation | 26.74 | 26.705 | -0.0349 |
| 34 | 0 | Correlation | 26.996 | 26.229 | -0.7675 |

## Test Statistics (V/uSec)
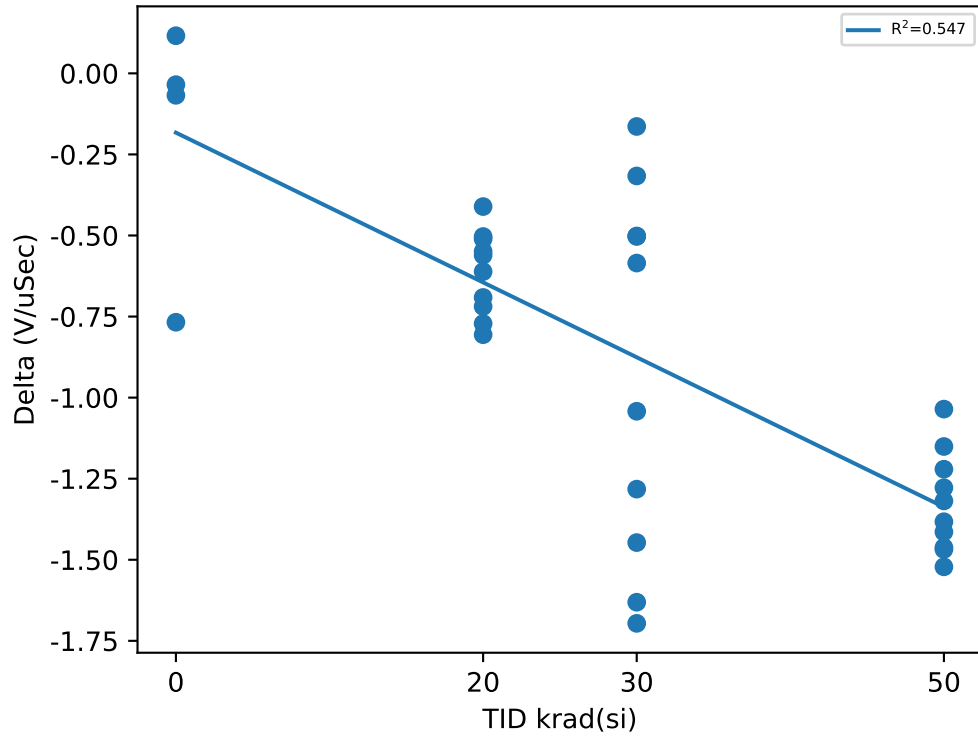
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 25.935 | 26.513 | 26.996 | 0.46067 | 26.051 | 26.324 | 26.705 | 0.27623 | -0.7675 | -0.18852 | 0.116 | 0.39419 |
| 20 | 25.718 | 26.31 | 26.943 | 0.43136 | 25.014 | 25.696 | 26.42 | 0.49163 | -0.8059 | -0.61335 | -0.4108 | 0.12903 |
| 30 | 25.61 | 26.248 | 26.753 | 0.34662 | 24.676 | 25.331 | 25.968 | 0.3974 | -1.6961 | -0.91678 | -0.1638 | 0.57047 |
| 50 | 25.922 | 26.515 | 27.407 | 0.41357 | 24.508 | 25.19 | 25.885 | 0.37466 | -1.5218 | -1.3252 | -1.0354 | 0.15515 |
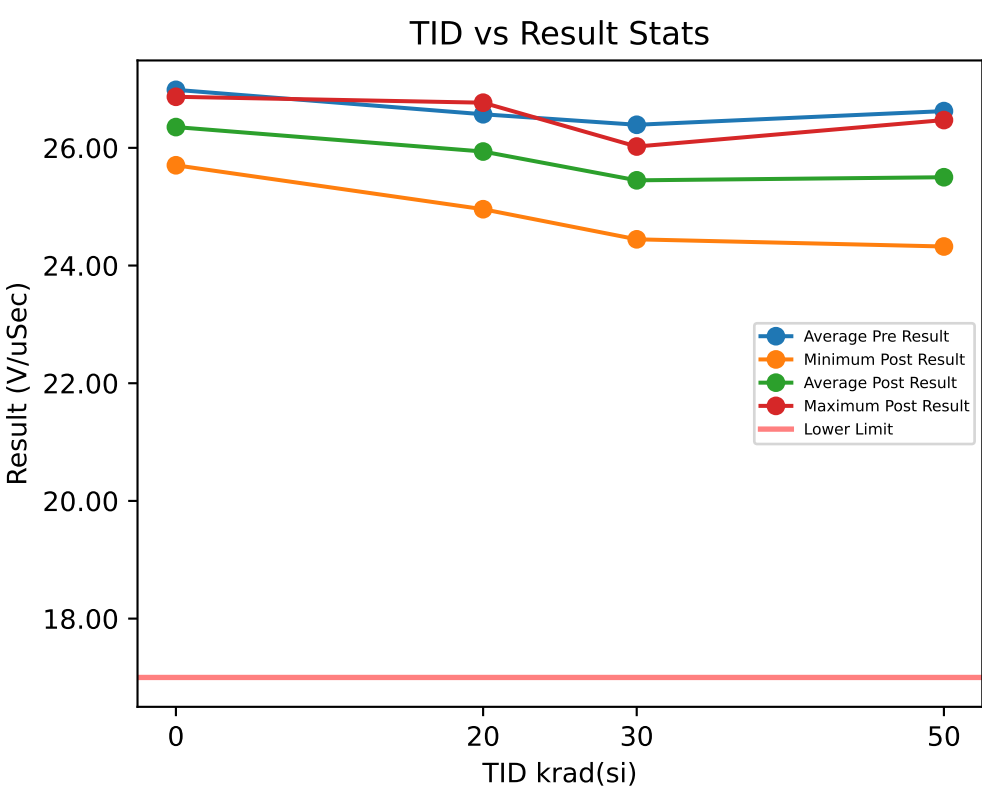
## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 17.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 26.282 | 24.957 | -1.3249 |
| 2 | 20 | Bias | 26.058 | 25.83 | -0.2285 |
| 3 | 20 | Bias | 26.06 | 25.826 | -0.2347 |
| 4 | 20 | Bias | 27.293 | 26.552 | -0.7404 |
| 5 | 20 | Bias | 26.875 | 25.96 | -0.9153 |
| 6 | 20 | Unbiased | 26.464 | 25.735 | -0.7295 |
| 7 | 20 | Unbiased | 26.779 | 26.418 | -0.3607 |
| 8 | 20 | Unbiased | 27.028 | 26.767 | -0.2606 |
| 9 | 20 | Unbiased | 26.449 | 25.657 | -0.7916 |
| 10 | 20 | Unbiased | 26.419 | 25.672 | -0.7468 |
| 11 | 30 | Bias | 26.018 | 25.951 | -0.0669 |
| 12 | 30 | Bias | 26.494 | 24.446 | -2.0482 |
| 13 | 30 | Bias | 25.779 | 25.859 | 0.0797 |
| 14 | 30 | Bias | 25.82 | 24.926 | -0.8947 |
| 15 | 30 | Bias | 26.199 | 25.163 | -1.0353 |
| 16 | 30 | Unbiased | 27.346 | 25.554 | -1.7922 |
| 17 | 30 | Unbiased | 26.829 | 26.023 | -0.8066 |
| 18 | 30 | Unbiased | 26.75 | 25.725 | -1.0251 |
| 19 | 30 | Unbiased | 25.941 | 25.999 | 0.0578 |
| 20 | 30 | Unbiased | 26.746 | 24.837 | -1.9097 |
| 21 | 50 | Bias | 26.065 | 26.151 | 0.0855 |
| 22 | 50 | Bias | 26.463 | 24.927 | -1.5365 |
| 23 | 50 | Bias | 26.058 | 26.169 | 0.111 |
| 24 | 50 | Bias | 27.156 | 26.258 | -0.8983 |
| 25 | 50 | Bias | 27.442 | 26.472 | -0.9696 |
| 26 | 50 | Unbiased | 25.75 | 24.752 | -0.9986 |
| 27 | 50 | Unbiased | 27.497 | 25.747 | -1.75 |
| 28 | 50 | Unbiased | 26.371 | 24.324 | -2.0474 |
| 29 | 50 | Unbiased | 26.452 | 24.908 | -1.5437 |
| 30 | 50 | Unbiased | 26.989 | 25.298 | -1.6916 |
| 31 | 0 | Correlation | 26.567 | 25.704 | -0.8628 |
| 32 | 0 | Correlation | 26.92 | 26.623 | -0.2966 |
| 33 | 0 | Correlation | 26.9 | 26.868 | -0.0321 |
| 34 | 0 | Correlation | 27.557 | 26.217 | -1.3401 |
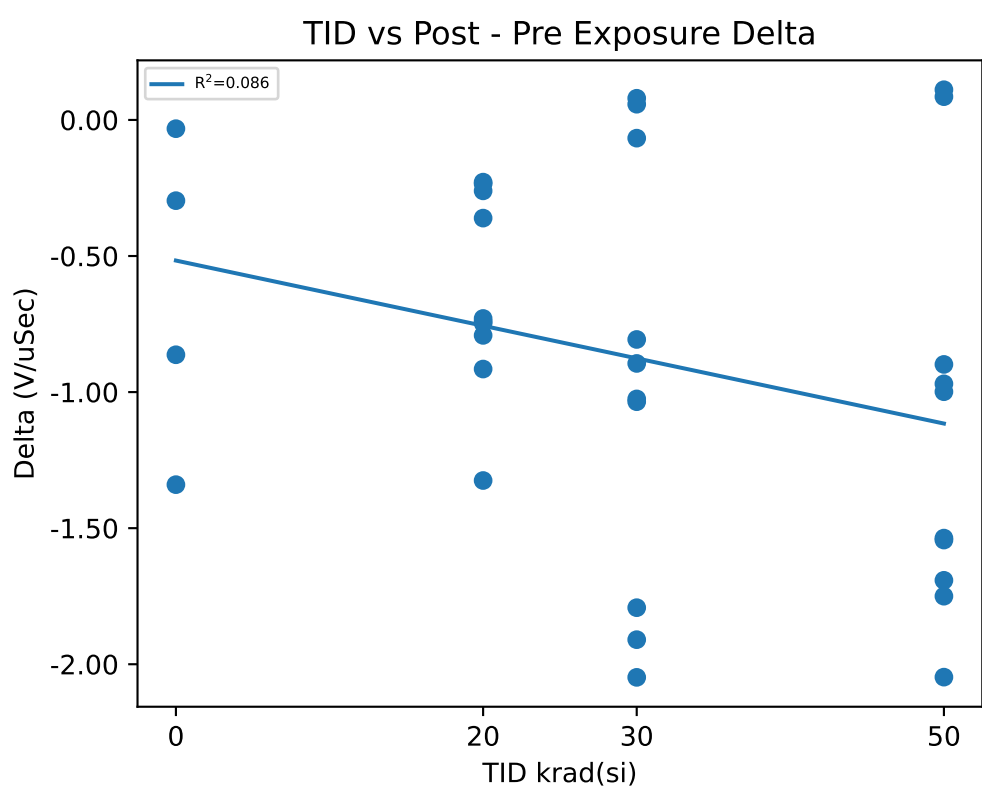
## Test Statistics (V/uSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 26.567 | 26.986 | 27.557 | 0.41388 | 25.704 | 26.353 | 26.868 | 0.50917 | -1.3401 | -0.6329 | -0.0321 | 0.58511 |
| 20 | 26.058 | 26.571 | 27.293 | 0.41129 | 24.957 | 25.937 | 26.767 | 0.52429 | -1.3249 | -0.6333 | -0.2285 | 0.35784 |
| 30 | 25.779 | 26.392 | 27.346 | 0.52147 | 24.446 | 25.448 | 26.023 | 0.56524 | -2.0482 | -0.94412 | 0.0797 | 0.7978 |
| 50 | 25.75 | 26.625 | 27.497 | 0.61138 | 24.324 | 25.501 | 26.472 | 0.75389 | -2.0474 | -1.1239 | 0.111 | 0.74473 |

# Device Test: 16.7   EN_SLEW_RATE_FALL(_LEVEL|FALL/EN1/1.6/3/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 136.4 | 141.3 | 4.8982 |
| 2 | 20 | Bias | 133.63 | 140.59 | 6.9595 |
| 3 | 20 | Bias | 138.34 | 134.21 | -4.138 |
| 4 | 20 | Bias | 132.43 | 138.39 | 5.9539 |
| 5 | 20 | Bias | 134.29 | 135.42 | 1.1302 |
| 6 | 20 | Unbiased | 134.33 | 135.74 | 1.402 |
| 7 | 20 | Unbiased | 136.75 | 141.19 | 4.4383 |
| 8 | 20 | Unbiased | 136.6 | 139.06 | 2.4611 |
| 9 | 20 | Unbiased | 137.4 | 137.78 | 0.3786 |
| 10 | 20 | Unbiased | 135.04 | 136.4 | 1.3523 |
| 11 | 30 | Bias | 129.98 | 138.57 | 8.595 |
| 12 | 30 | Bias | 128.53 | 138.38 | 9.8477 |
| 13 | 30 | Bias | 129.51 | 141.83 | 12.314 |
| 14 | 30 | Bias | 131.74 | 141.82 | 10.078 |
| 15 | 30 | Bias | 129.06 | 145.9 | 16.84 |
| 16 | 30 | Unbiased | 138.04 | 144.04 | 6.0001 |
| 17 | 30 | Unbiased | 132.72 | 146.77 | 14.05 |
| 18 | 30 | Unbiased | 129.3 | 143.44 | 14.131 |
| 19 | 30 | Unbiased | 132.19 | 141.3 | 9.1148 |
| 20 | 30 | Unbiased | 134.69 | 138.44 | 3.7502 |
| 21 | 50 | Bias | 132.75 | 146.04 | 13.288 |
| 22 | 50 | Bias | 133.68 | 142.78 | 9.0992 |
| 23 | 50 | Bias | 135.19 | 142.67 | 7.4849 |
| 24 | 50 | Bias | 132.03 | 145.99 | 13.957 |
| 25 | 50 | Bias | 136.07 | 139.85 | 3.7855 |
| 26 | 50 | Unbiased | 130.21 | 134.92 | 4.7128 |
| 27 | 50 | Unbiased | 136.4 | 141.14 | 4.7427 |
| 28 | 50 | Unbiased | 133.53 | 134.05 | 0.5176 |
| 29 | 50 | Unbiased | 134.9 | 137.04 | 2.1387 |
| 30 | 50 | Unbiased | 136.82 | 139.69 | 2.8725 |
| 31 | 0 | Correlation | 138.81 | 131.69 | -7.1194 |
| 32 | 0 | Correlation | 133.3 | 133.53 | 0.2343 |
| 33 | 0 | Correlation | 139.95 | 133.28 | -6.6688 |
| 34 | 0 | Correlation | 132.8 | 137.57 | 4.7772 |

## Test Statistics (V/uSec)
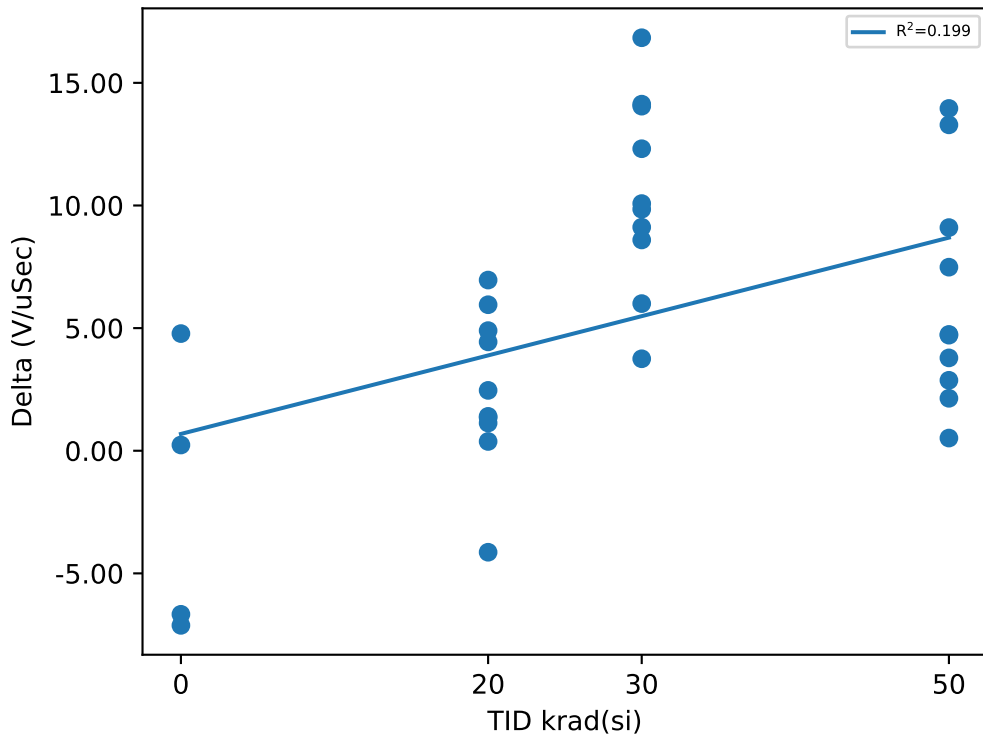
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 132.8 | 136.22 | 139.95 | 3.692 | 131.69 | 134.02 | 137.57 | 2.5046 | -7.1194 | -2.1942 | 4.7772 | 5.7381 |
| 20 | 132.43 | 135.52 | 138.34 | 1.8612 | 134.21 | 138.01 | 141.3 | 2.5344 | -4.138 | 2.4836 | 6.9595 | 3.2367 |
| 30 | 128.53 | 131.58 | 138.04 | 2.9945 | 138.38 | 142.05 | 146.77 | 3.0229 | 3.7502 | 10.472 | 16.84 | 3.9612 |
| 50 | 130.21 | 134.16 | 136.82 | 2.1106 | 134.05 | 140.42 | 146.04 | 4.1753 | 0.5176 | 6.2599 | 13.957 | 4.6001 |

# Device Test: 16.8   EN_SLEW_RATE_FALL(_LEVEL|FALL/EN2/1.6/3/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit

## TID vs Post - Pre Exposure Delta



$R^2$=0.132

## Test Results (Lower Limit = 44.0 (V/uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 132.79 | 134.65 | 1.8675 |
| 2 | 20 | Bias | 130.64 | 135.48 | 4.844 |
| 3 | 20 | Bias | 126.1 | 129.15 | 3.0536 |
| 4 | 20 | Bias | 135.62 | 141.56 | 5.9396 |
| 5 | 20 | Bias | 128.56 | 137.72 | 9.1659 |
| 6 | 20 | Unbiased | 131.95 | 131.61 | -0.341 |
| 7 | 20 | Unbiased | 128.71 | 136.92 | 8.2069 |
| 8 | 20 | Unbiased | 130.98 | 132.5 | 1.5184 |
| 9 | 20 | Unbiased | 130.27 | 136.96 | 6.6898 |
| 10 | 20 | Unbiased | 131.23 | 134.15 | 2.9155 |
| 11 | 30 | Bias | 128.35 | 140.84 | 12.489 |
| 12 | 30 | Bias | 127.23 | 143.13 | 15.901 |
| 13 | 30 | Bias | 131.64 | 139.72 | 8.072 |
| 14 | 30 | Bias | 134.76 | 140.92 | 6.1608 |
| 15 | 30 | Bias | 128.04 | 142.94 | 14.9 |
| 16 | 30 | Unbiased | 136.38 | 136.93 | 0.548 |
| 17 | 30 | Unbiased | 131.5 | 147.4 | 15.903 |
| 18 | 30 | Unbiased | 127.59 | 144.25 | 16.662 |
| 19 | 30 | Unbiased | 130.58 | 139.07 | 8.4924 |
| 20 | 30 | Unbiased | 128.3 | 141.37 | 13.071 |
| 21 | 50 | Bias | 131.36 | 143.16 | 11.798 |
| 22 | 50 | Bias | 128.94 | 135.85 | 6.9054 |
| 23 | 50 | Bias | 136.39 | 144.79 | 8.4015 |
| 24 | 50 | Bias | 129.52 | 149.75 | 20.235 |
| 25 | 50 | Bias | 132.14 | 134.18 | 2.0434 |
| 26 | 50 | Unbiased | 130.22 | 135.49 | 5.2611 |
| 27 | 50 | Unbiased | 135.07 | 141.35 | 6.2797 |
| 28 | 50 | Unbiased | 126.88 | 134.37 | 7.4952 |
| 29 | 50 | Unbiased | 132.8 | 135.37 | 2.5739 |
| 30 | 50 | Unbiased | 133.68 | 137.17 | 3.4922 |
| 31 | 0 | Correlation | 129.57 | 129.06 | -0.5135 |
| 32 | 0 | Correlation | 130.09 | 135.81 | 5.722 |
| 33 | 0 | Correlation | 133.2 | 130.32 | -2.8794 |
| 34 | 0 | Correlation | 126.68 | 127.89 | 1.2067 |

## Test Statistics (V/uSec)
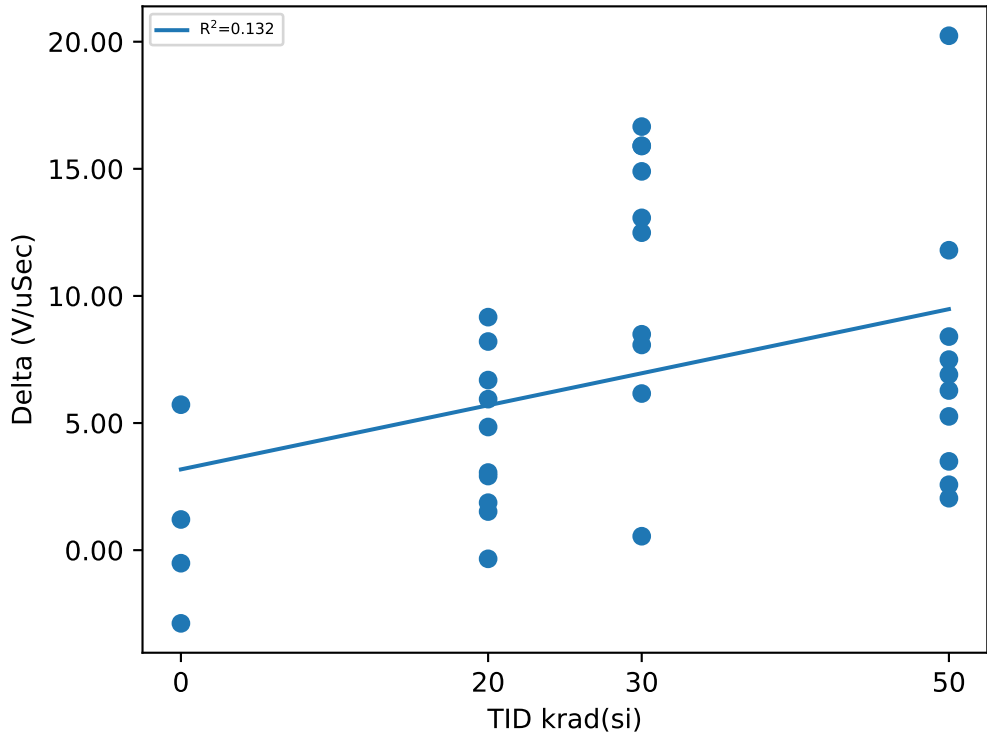
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 126.68 | 129.89 | 133.2 | 2.6693 | 127.89 | 130.77 | 135.81 | 3.503 | -2.8794 | 0.88395 | 5.722 | 3.6344 |
| 20 | 126.1 | 130.69 | 135.62 | 2.5907 | 129.15 | 135.07 | 141.56 | 3.5114 | -0.341 | 4.386 | 9.1659 | 3.0953 |
| 30 | 127.23 | 130.44 | 136.38 | 3.1554 | 136.93 | 141.66 | 147.4 | 2.9379 | 0.548 | 11.22 | 16.662 | 5.2584 |
| 50 | 126.88 | 131.7 | 136.39 | 2.9174 | 134.18 | 139.15 | 149.75 | 5.3238 | 2.0434 | 7.4486 | 20.235 | 5.3583 |
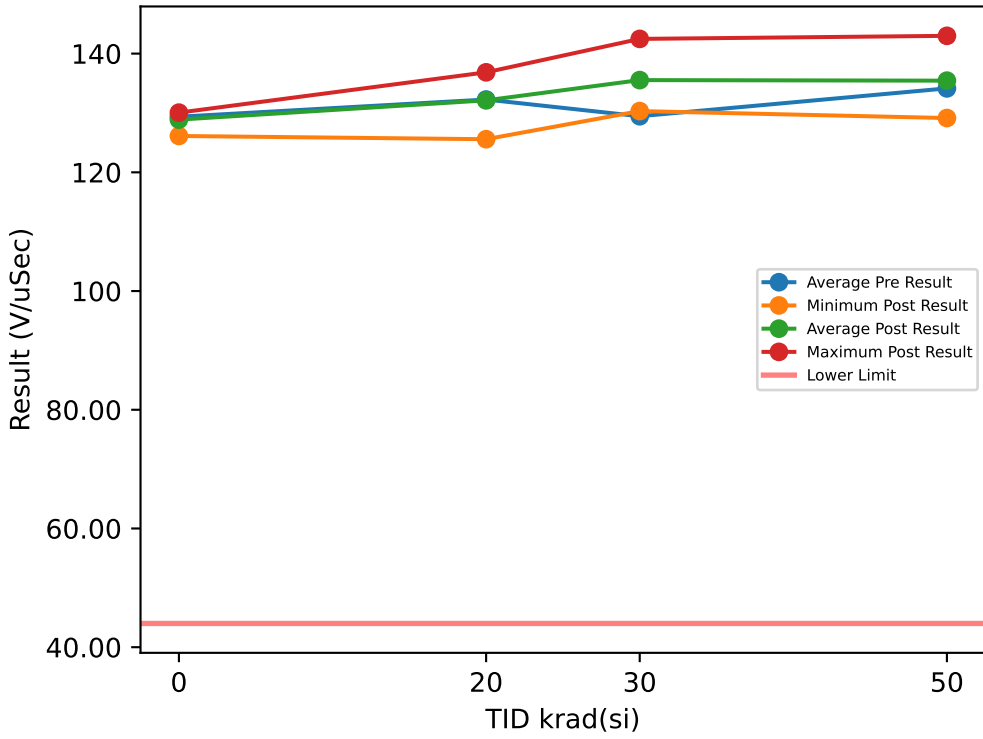
# Device Test: 16.9   EN_SLEW_RATE_FALL(_LEVEL|FALL/EN3/1.6/3/0/0/0/@EN_SLEW_RATE_FALL )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 44.0 (V/uSec))

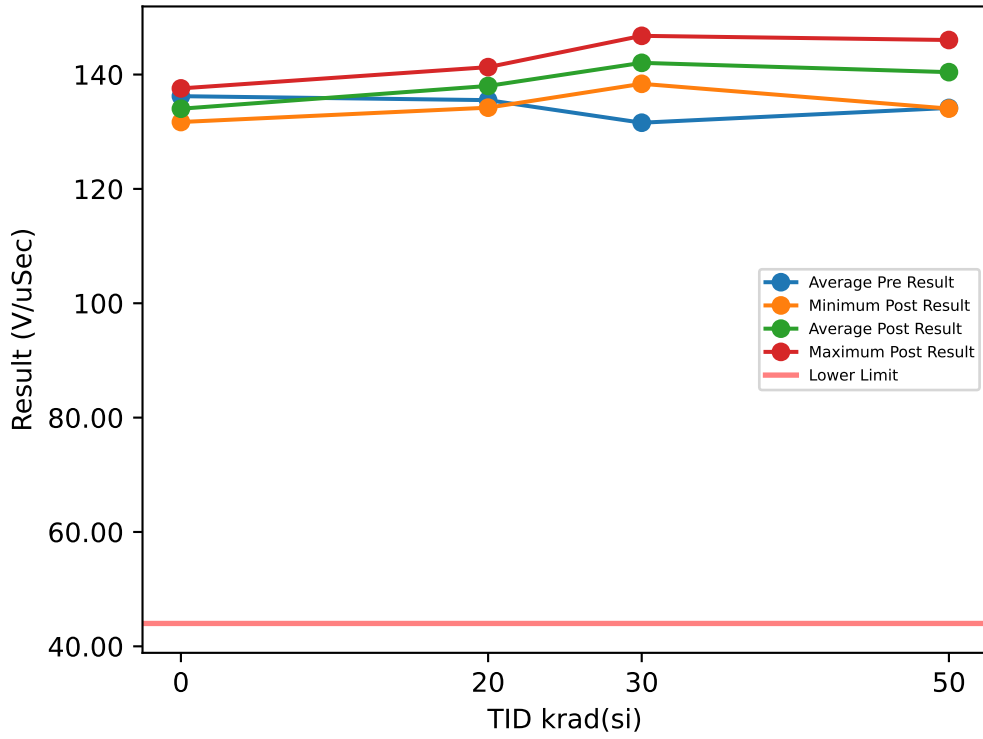| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 138.74 | 136.85 | -1.8906 |
| 2 | 20 | Bias | 132.38 | 131.4 | -0.9759 |
| 3 | 20 | Bias | 132.14 | 125.58 | -6.5648 |
| 4 | 20 | Bias | 136.28 | 130.33 | -5.9466 |
| 5 | 20 | Bias | 125.75 | 134.65 | 8.9004 |
| 6 | 20 | Unbiased | 132.46 | 131.12 | -1.3415 |
| 7 | 20 | Unbiased | 127.22 | 134.43 | 7.213 |
| 8 | 20 | Unbiased | 126.47 | 126.56 | 0.0928 |
| 9 | 20 | Unbiased | 137.05 | 133.52 | -3.5343 |
| 10 | 20 | Unbiased | 134.14 | 136.81 | 2.6648 |
| 11 | 30 | Bias | 123.27 | 135.47 | 12.195 |
| 12 | 30 | Bias | 128.91 | 132.94 | 4.0304 |
| 13 | 30 | Bias | 127.24 | 130.93 | 3.6862 |
| 14 | 30 | Bias | 126.31 | 130.32 | 4.0074 |
| 15 | 30 | Bias | 125.88 | 142.48 | 16.598 |
| 16 | 30 | Unbiased | 131.18 | 133.44 | 2.2562 |
| 17 | 30 | Unbiased | 135.71 | 136.63 | 0.9225 |
| 18 | 30 | Unbiased | 133.61 | 140.7 | 7.0903 |
| 19 | 30 | Unbiased | 134.68 | 134.3 | -0.3771 |
| 20 | 30 | Unbiased | 127.72 | 138.16 | 10.436 |
| 21 | 50 | Bias | 128.53 | 142.99 | 14.466 |
| 22 | 50 | Bias | 135.21 | 134.2 | -1.0044 |
| 23 | 50 | Bias | 133.22 | 140.12 | 6.9003 |
| 24 | 50 | Bias | 134.2 | 139.3 | 5.0952 |
| 25 | 50 | Bias | 140.19 | 135.5 | -4.6883 |
| 26 | 50 | Unbiased | 136.73 | 131.45 | -5.2802 |
| 27 | 50 | Unbiased | 133.12 | 141 | 7.8838 |
| 28 | 50 | Unbiased | 133.67 | 129.46 | -4.2151 |
| 29 | 50 | Unbiased | 132.87 | 129.14 | -3.7222 |
| 30 | 50 | Unbiased | 133.7 | 131.26 | -2.4435 |
| 31 | 0 | Correlation | 128.34 | 126.12 | -2.2157 |
| 32 | 0 | Correlation | 135.12 | 129.79 | -5.3252 |
| 33 | 0 | Correlation | 125.7 | 130.05 | 4.3504 |
| 34 | 0 | Correlation | 128.3 | 129.54 | 1.2447 |

## Test Statistics (V/uSec)
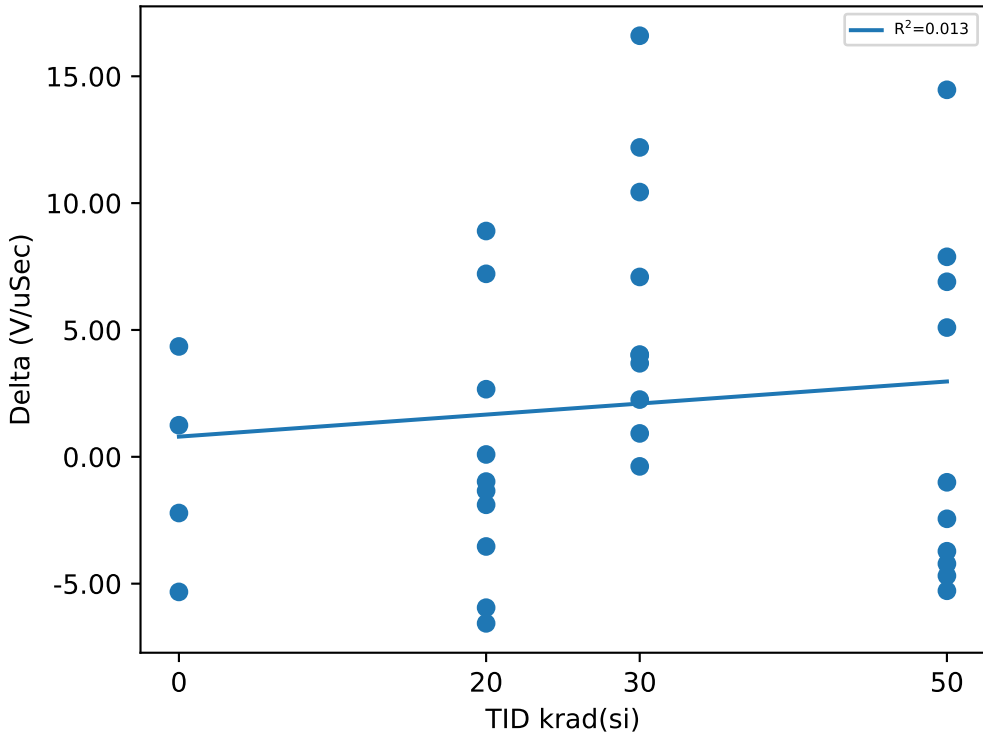
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 125.7 | 129.37 | 135.12 | 4.0293 | 126.12 | 128.88 | 130.05 | 1.8489 | -5.3252 | -0.48645 | 4.3504 | 4.1951 |
| 20 | 125.75 | 132.26 | 138.74 | 4.5465 | 125.58 | 132.13 | 136.85 | 3.8933 | -6.5648 | -0.13827 | 8.9004 | 5.1147 |
| 30 | 123.27 | 129.45 | 135.71 | 4.1606 | 130.32 | 135.54 | 142.48 | 4.0017 | -0.3771 | 6.0845 | 16.598 | 5.4279 |
| 50 | 128.53 | 134.14 | 140.19 | 2.9788 | 129.14 | 135.44 | 142.99 | 5.1118 | -5.2802 | 1.2992 | 14.466 | 6.8035 |

# Device Test: 17.1   TPD_EN(_DELAY|STEP_UP/EN1/1.6/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

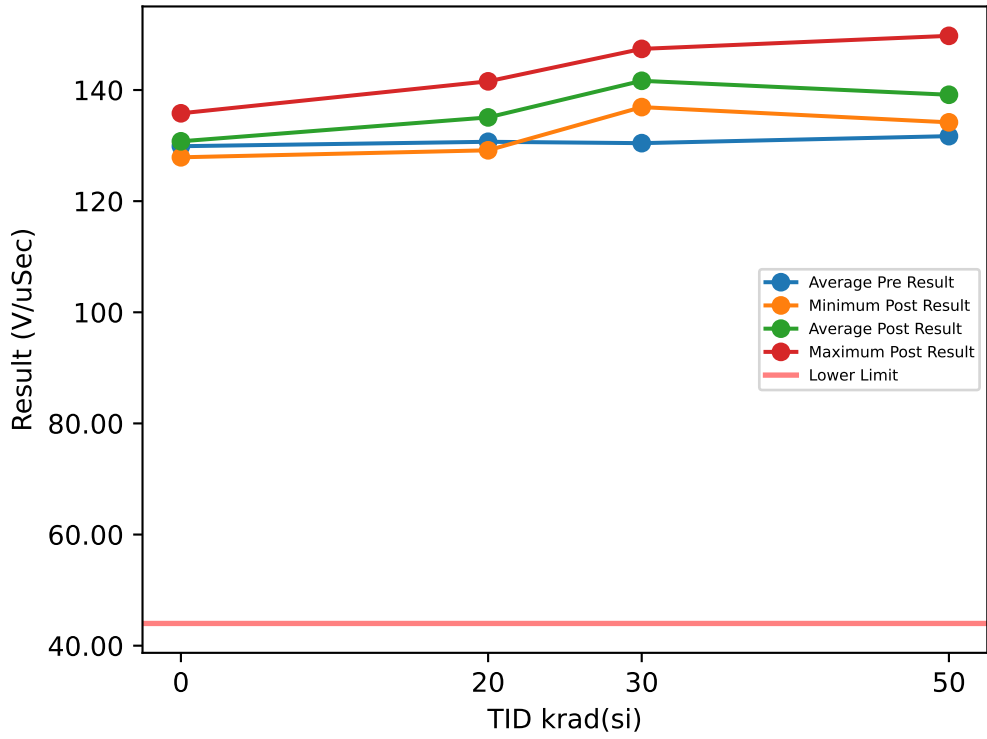| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 2.9607 | 3.1828 | 0.2221 |
| 2 | 20 | Bias | 3.0903 | 2.9187 | -0.1716 |
| 3 | 20 | Bias | 3.0569 | 2.9128 | -0.1441 |
| 4 | 20 | Bias | 3.0606 | 3.0236 | -0.037 |
| 5 | 20 | Bias | 3.1801 | 2.7621 | -0.418 |
| 6 | 20 | Unbiased | 2.8517 | 2.9541 | 0.1024 |
| 7 | 20 | Unbiased | 2.7832 | 3.1014 | 0.3182 |
| 8 | 20 | Unbiased | 3.0388 | 3.0788 | 0.04 |
| 9 | 20 | Unbiased | 3.2724 | 3.1336 | -0.1388 |
| 10 | 20 | Unbiased | 3.0396 | 3.2037 | 0.1641 |
| 11 | 30 | Bias | 3.0312 | 2.8187 | -0.2125 |
| 12 | 30 | Bias | 3.0353 | 2.9142 | -0.1211 |
| 13 | 30 | Bias | 3.1391 | 2.9222 | -0.2169 |
| 14 | 30 | Bias | 2.9519 | 2.9919 | 0.04 |
| 15 | 30 | Bias | 2.8372 | 2.9586 | 0.1214 |
| 16 | 30 | Unbiased | 3.1164 | 2.9482 | -0.1682 |
| 17 | 30 | Unbiased | 2.9753 | 3.0618 | 0.0865 |
| 18 | 30 | Unbiased | 2.8184 | 3.1533 | 0.3349 |
| 19 | 30 | Unbiased | 2.9016 | 2.9611 | 0.0595 |
| 20 | 30 | Unbiased | 3.1773 | 2.9061 | -0.2712 |
| 21 | 50 | Bias | 3.0002 | 3.2132 | 0.213 |
| 22 | 50 | Bias | 3.3004 | 3.045 | -0.2554 |
| 23 | 50 | Bias | 2.9202 | 3.1666 | 0.2464 |
| 24 | 50 | Bias | 3.0281 | 2.9384 | -0.0897 |
| 25 | 50 | Bias | 3.0241 | 3.2136 | 0.1895 |
| 26 | 50 | Unbiased | 3.1143 | 3.2992 | 0.1849 |
| 27 | 50 | Unbiased | 3.2661 | 2.8762 | -0.3899 |
| 28 | 50 | Unbiased | 2.8367 | 3.1155 | 0.2788 |
| 29 | 50 | Unbiased | 3.0956 | 3.1258 | 0.0302 |
| 30 | 50 | Unbiased | 2.8973 | 2.8854 | -0.0119 |
| 31 | 0 | Correlation | 3.0329 | 3.2043 | 0.1714 |
| 32 | 0 | Correlation | 2.9719 | 3.0425 | 0.0706 |
| 33 | 0 | Correlation | 3.0341 | 2.9073 | -0.1268 |
| 34 | 0 | Correlation | 2.9919 | 3.1138 | 0.1219 |

## Test Statistics (uSec)
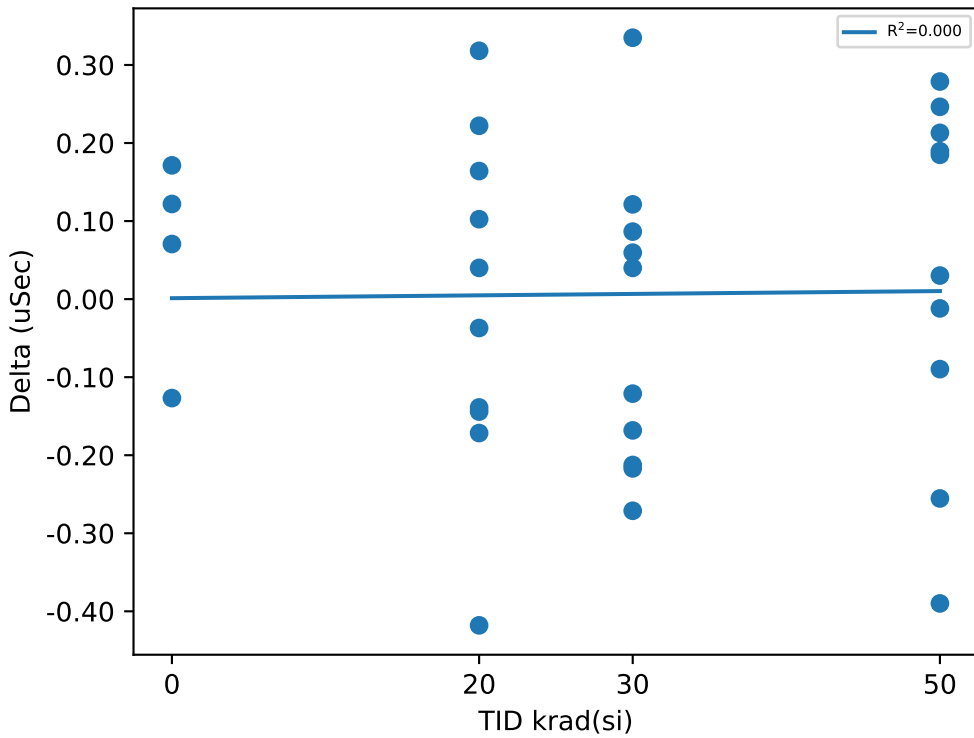
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.9719 | 3.0077 | 3.0341 | 0.030894 | 2.9073 | 3.067 | 3.2043 | 0.12536 | -0.1268 | 0.059275 | 0.1714 | 0.1307 |
| 20 | 2.7832 | 3.0334 | 3.2724 | 0.14304 | 2.7621 | 3.0272 | 3.2037 | 0.13958 | -0.418 | -0.00627 | 0.3182 | 0.21979 |
| 30 | 2.8184 | 2.9984 | 3.1773 | 0.1241 | 2.8187 | 2.9636 | 3.1533 | 0.091382 | -0.2712 | -0.03476 | 0.3349 | 0.19326 |
| 50 | 2.8367 | 3.0483 | 3.3004 | 0.15088 | 2.8762 | 3.0879 | 3.2992 | 0.14703 | -0.3899 | 0.03959 | 0.2788 | 0.2272 |

# Device Test: 17.10  TPD_EN(_DELAY|STEP_DOWN/EN4/1.6/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.1345 | 3.5421 | 0.4076 |
| 2 | 20 | Bias | 3.0965 | 3.2063 | 0.1098 |
| 3 | 20 | Bias | 3.235 | 3.2 | -0.035 |
| 4 | 20 | Bias | 3.4648 | 3.5972 | 0.1324 |
| 5 | 20 | Bias | 3.1191 | 3.2608 | 0.1417 |
| 6 | 20 | Unbiased | 3.3352 | 3.3153 | -0.0199 |
| 7 | 20 | Unbiased | 3.1695 | 3.2433 | 0.0738 |
| 8 | 20 | Unbiased | 3.1811 | 3.3073 | 0.1262 |
| 9 | 20 | Unbiased | 3.1904 | 3.1378 | -0.0526 |
| 10 | 20 | Unbiased | 3.3288 | 3.2147 | -0.1141 |
| 11 | 30 | Bias | 3.463 | 3.3481 | -0.1149 |
| 12 | 30 | Bias | 3.1248 | 3.2562 | 0.1314 |
| 13 | 30 | Bias | 3.48 | 3.4254 | -0.0546 |
| 14 | 30 | Bias | 3.355 | 3.4708 | 0.1158 |
| 15 | 30 | Bias | 3.0038 | 3.2279 | 0.2241 |
| 16 | 30 | Unbiased | 3.4521 | 3.2833 | -0.1688 |
| 17 | 30 | Unbiased | 3.1245 | 3.3451 | 0.2206 |
| 18 | 30 | Unbiased | 3.2226 | 3.2129 | -0.0097 |
| 19 | 30 | Unbiased | 3.0802 | 3.1365 | 0.0563 |
| 20 | 30 | Unbiased | 3.1116 | 3.1693 | 0.0577 |
| 21 | 50 | Bias | 3.5123 | 3.1649 | -0.3474 |
| 22 | 50 | Bias | 3.1747 | 3.1327 | -0.042 |
| 23 | 50 | Bias | 3.2074 | 3.2688 | 0.0614 |
| 24 | 50 | Bias | 3.0944 | 3.4703 | 0.3759 |
| 25 | 50 | Bias | 3.4668 | 3.0334 | -0.4334 |
| 26 | 50 | Unbiased | 3.1374 | 3.2517 | 0.1143 |
| 27 | 50 | Unbiased | 3.1395 | 3.2573 | 0.1178 |
| 28 | 50 | Unbiased | 3.1803 | 3.0661 | -0.1142 |
| 29 | 50 | Unbiased | 3.1296 | 3.503 | 0.3734 |
| 30 | 50 | Unbiased | 3.2727 | 3.0837 | -0.189 |
| 31 | 0 | Correlation | 3.1772 | 3.4651 | 0.2879 |
| 32 | 0 | Correlation | 3.1635 | 3.2073 | 0.0438 |
| 33 | 0 | Correlation | 3.4034 | 3.3661 | -0.0373 |
| 34 | 0 | Correlation | 3.0595 | 3.589 | 0.5295 |

## Test Statistics (uSec)
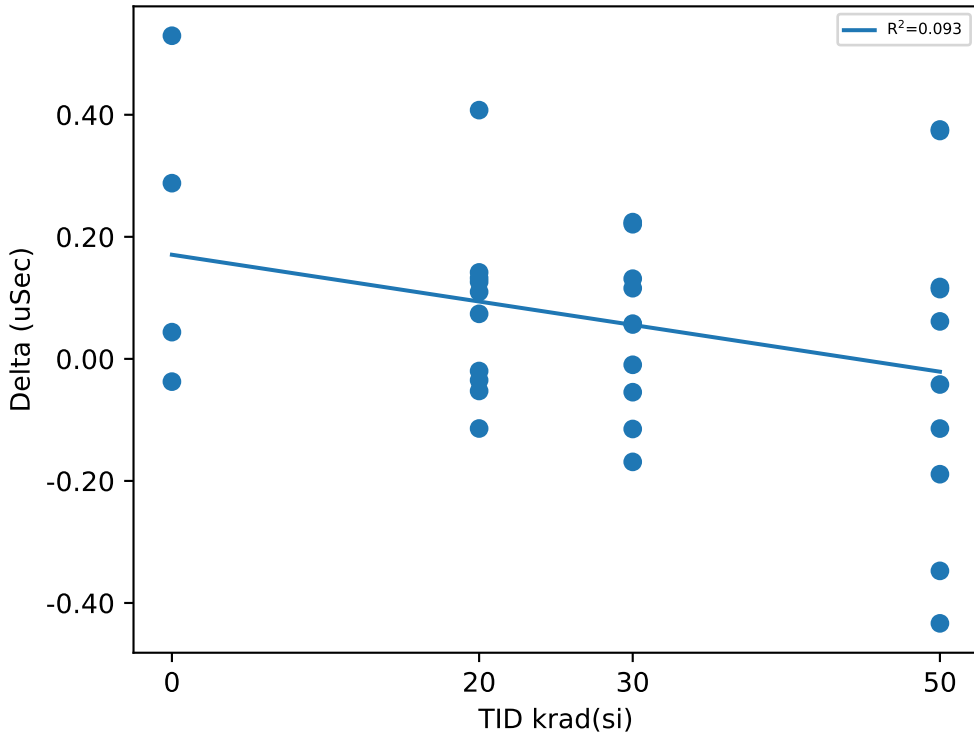
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0595 | 3.2009 | 3.4034 | 0.14487 | 3.2073 | 3.4069 | 3.589 | 0.1613 | -0.0373 | 0.20598 | 0.5295 | 0.25617 |
| 20 | 3.0965 | 3.2255 | 3.4648 | 0.11673 | 3.1378 | 3.3025 | 3.5972 | 0.15066 | -0.1141 | 0.07699 | 0.4076 | 0.14731 |
| 30 | 3.0038 | 3.2418 | 3.48 | 0.17958 | 3.1365 | 3.2876 | 3.4708 | 0.10878 | -0.1688 | 0.04579 | 0.2241 | 0.13328 |
| 50 | 3.0944 | 3.2315 | 3.5123 | 0.14485 | 3.0334 | 3.2232 | 3.503 | 0.16164 | -0.4334 | -0.00832 | 0.3759 | 0.2728 |

## TID vs Result Stats
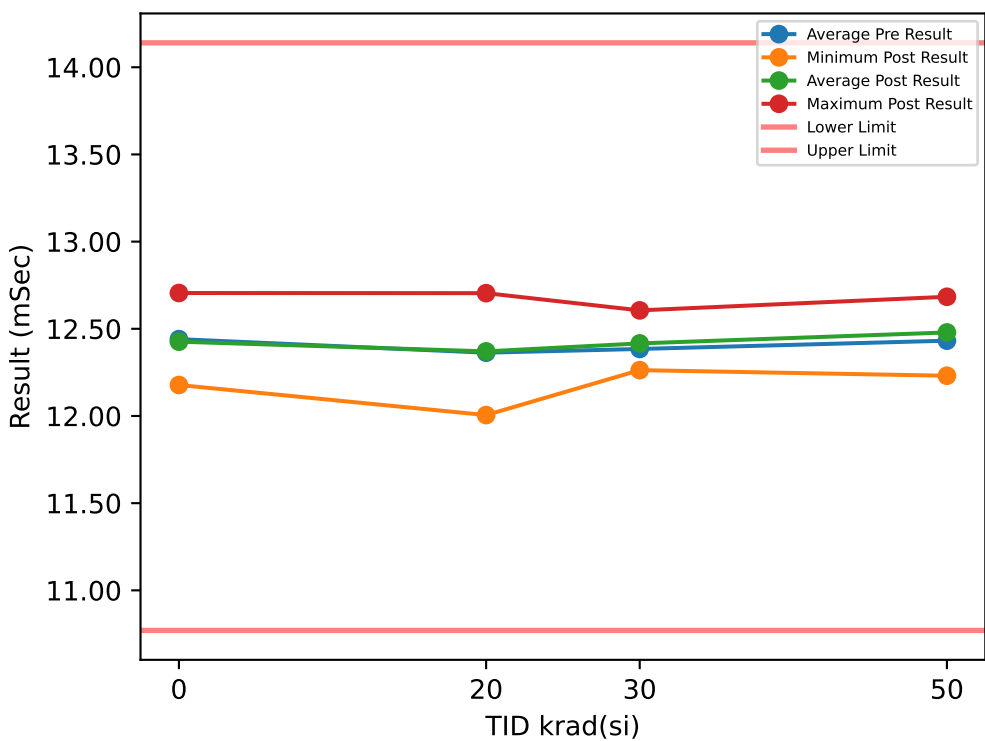


## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

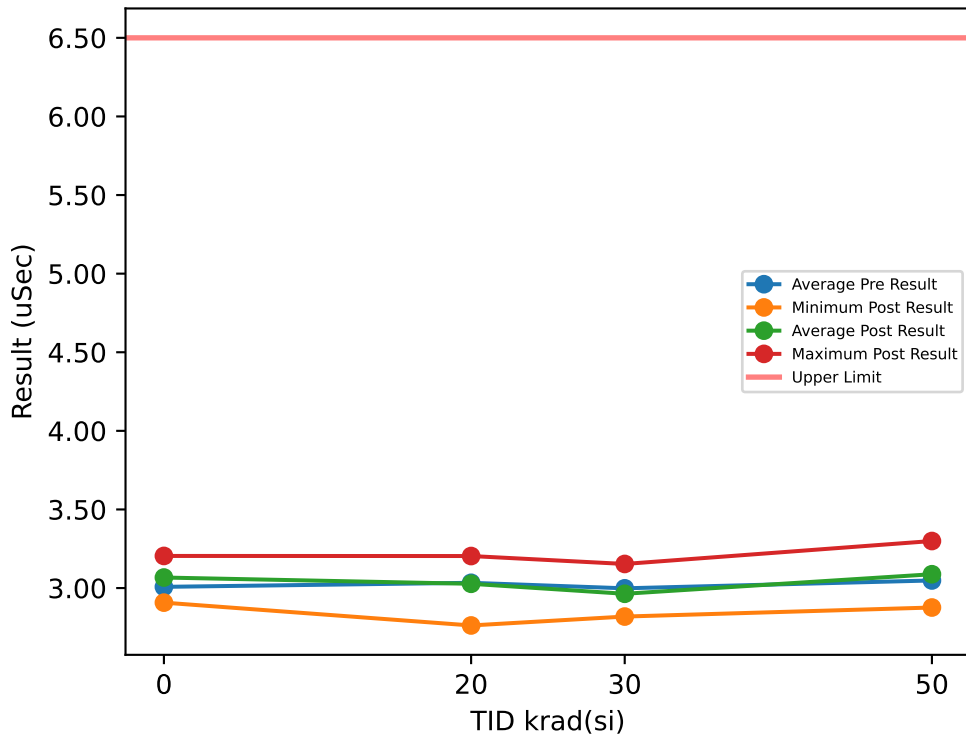| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.338 | 12.322 | -0.016 |
| 2 | 20 | Bias | 12.421 | 12.577 | 0.156 |
| 3 | 20 | Bias | 12.155 | 12.079 | -0.0764 |
| 4 | 20 | Bias | 12.501 | 12.704 | 0.2035 |
| 5 | 20 | Bias | 12.54 | 12.413 | -0.1267 |
| 6 | 20 | Unbiased | 12.222 | 12.005 | -0.2164 |
| 7 | 20 | Unbiased | 12.406 | 12.416 | 0.0098 |
| 8 | 20 | Unbiased | 12.382 | 12.347 | -0.0348 |
| 9 | 20 | Unbiased | 12.458 | 12.61 | 0.1515 |
| 10 | 20 | Unbiased | 12.207 | 12.232 | 0.0248 |
| 11 | 30 | Bias | 12.265 | 12.416 | 0.1512 |
| 12 | 30 | Bias | 12.369 | 12.331 | -0.0377 |
| 13 | 30 | Bias | 12.473 | 12.405 | -0.0685 |
| 14 | 30 | Bias | 12.24 | 12.49 | 0.25 |
| 15 | 30 | Bias | 12.471 | 12.306 | -0.1654 |
| 16 | 30 | Unbiased | 12.496 | 12.442 | -0.0542 |
| 17 | 30 | Unbiased | 12.57 | 12.513 | -0.0576 |
| 18 | 30 | Unbiased | 12.375 | 12.606 | 0.231 |
| 19 | 30 | Unbiased | 12.187 | 12.391 | 0.2037 |
| 20 | 30 | Unbiased | 12.398 | 12.263 | -0.135 |
| 21 | 50 | Bias | 12.055 | 12.412 | 0.3566 |
| 22 | 50 | Bias | 12.183 | 12.231 | 0.0477 |
| 23 | 50 | Bias | 12.682 | 12.242 | -0.4404 |
| 24 | 50 | Bias | 12.336 | 12.497 | 0.1613 |
| 25 | 50 | Bias | 12.588 | 12.643 | 0.0557 |
| 26 | 50 | Unbiased | 12.416 | 12.684 | 0.2677 |
| 27 | 50 | Unbiased | 12.415 | 12.342 | -0.0738 |
| 28 | 50 | Unbiased | 12.566 | 12.527 | -0.0393 |
| 29 | 50 | Unbiased | 12.646 | 12.682 | 0.0356 |
| 30 | 50 | Unbiased | 12.431 | 12.532 | 0.1008 |
| 31 | 0 | Correlation | 12.396 | 12.399 | 0.0037 |
| 32 | 0 | Correlation | 12.172 | 12.178 | 0.006 |
| 33 | 0 | Correlation | 12.688 | 12.705 | 0.0169 |
| 34 | 0 | Correlation | 12.507 | 12.423 | -0.0845 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.172 | 12.441 | 12.688 | 0.21616 | 12.178 | 12.426 | 12.705 | 0.21633 | -0.0845 | -0.014475 | 0.0169 | 0.047037 |
| 20 | 12.155 | 12.363 | 12.54 | 0.13041 | 12.005 | 12.371 | 12.704 | 0.22507 | -0.2164 | 0.00753 | 0.2035 | 0.13293 |
| 30 | 12.187 | 12.384 | 12.57 | 0.12349 | 12.263 | 12.416 | 12.606 | 0.1028 | -0.1654 | 0.03175 | 0.25 | 0.15919 |
| 50 | 12.055 | 12.432 | 12.682 | 0.20123 | 12.231 | 12.479 | 12.684 | 0.16879 | -0.4404 | 0.04719 | 0.3566 | 0.21611 |

# Device Test: 17.101 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN1/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

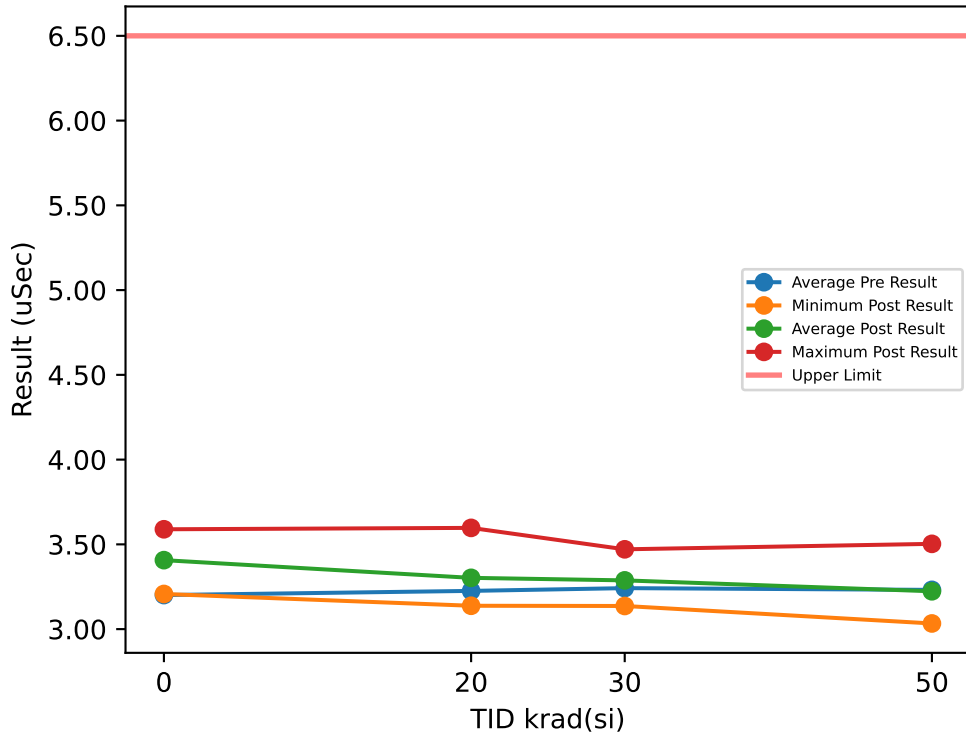| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 22.948 | 22.861 | -0.087 |
| 2 | 20 | Bias | 23.537 | 23.744 | 0.2072 |
| 3 | 20 | Bias | 22.904 | 22.72 | -0.1834 |
| 4 | 20 | Bias | 23.826 | 24.124 | 0.2983 |
| 5 | 20 | Bias | 23.461 | 23.474 | 0.013 |
| 6 | 20 | Unbiased | 22.909 | 23.026 | 0.1171 |
| 7 | 20 | Unbiased | 23.452 | 23.517 | 0.0645 |
| 8 | 20 | Unbiased | 23.396 | 23.05 | -0.3459 |
| 9 | 20 | Unbiased | 24.005 | 23.687 | -0.3175 |
| 10 | 20 | Unbiased | 22.808 | 23.111 | 0.3039 |
| 11 | 30 | Bias | 23.086 | 23.456 | 0.3702 |
| 12 | 30 | Bias | 23.411 | 23.491 | 0.0805 |
| 13 | 30 | Bias | 23.589 | 23.484 | -0.1056 |
| 14 | 30 | Bias | 22.794 | 23.563 | 0.7693 |
| 15 | 30 | Bias | 23.258 | 22.864 | -0.3942 |
| 16 | 30 | Unbiased | 23.662 | 23.286 | -0.3759 |
| 17 | 30 | Unbiased | 23.538 | 23.376 | -0.162 |
| 18 | 30 | Unbiased | 23.433 | 23.591 | 0.1576 |
| 19 | 30 | Unbiased | 23.443 | 23.175 | -0.2682 |
| 20 | 30 | Unbiased | 23.253 | 23.352 | 0.0991 |
| 21 | 50 | Bias | 23.172 | 23.536 | 0.364 |
| 22 | 50 | Bias | 22.901 | 22.926 | 0.0246 |
| 23 | 50 | Bias | 23.969 | 23.343 | -0.6266 |
| 24 | 50 | Bias | 23.326 | 23.687 | 0.3615 |
| 25 | 50 | Bias | 23.386 | 23.808 | 0.422 |
| 26 | 50 | Unbiased | 23.829 | 23.732 | -0.0967 |
| 27 | 50 | Unbiased | 23.173 | 23.265 | 0.0918 |
| 28 | 50 | Unbiased | 23.822 | 23.772 | -0.0499 |
| 29 | 50 | Unbiased | 23.956 | 23.759 | -0.197 |
| 30 | 50 | Unbiased | 23.255 | 23.784 | 0.5294 |
| 31 | 0 | Correlation | 23.463 | 23.188 | -0.2745 |
| 32 | 0 | Correlation | 22.925 | 22.984 | 0.0586 |
| 33 | 0 | Correlation | 23.93 | 23.635 | -0.295 |
| 34 | 0 | Correlation | 23.419 | 23.464 | 0.0441 |

## Test Statistics (mSec)
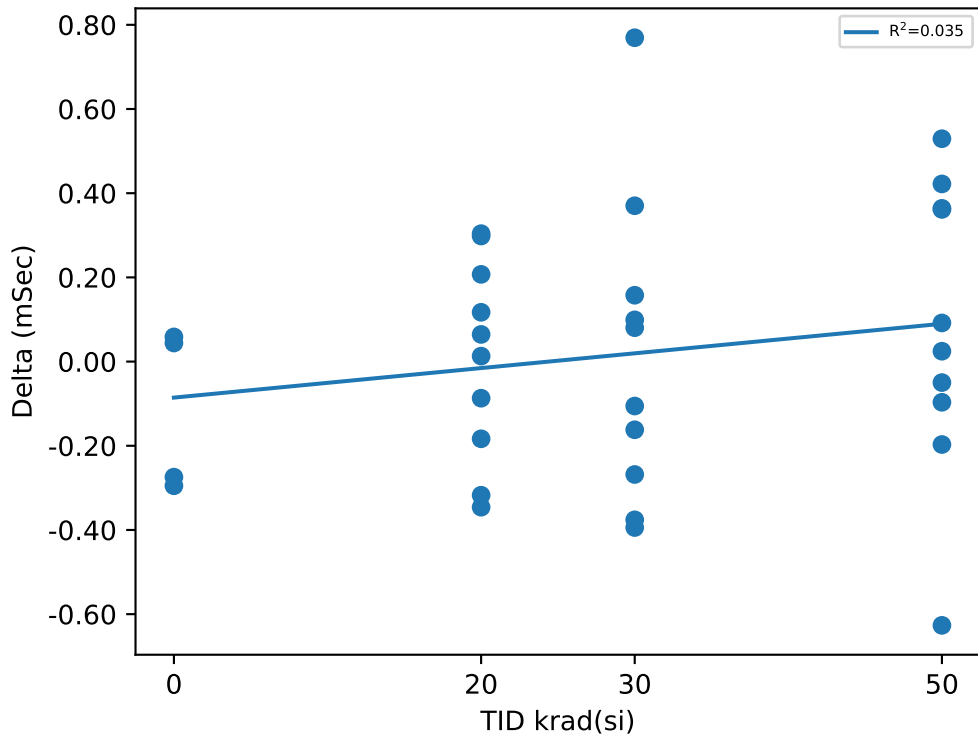
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 22.925 | 23.434 | 23.93 | 0.41083 | 22.984 | 23.318 | 23.635 | 0.28892 | -0.295 | -0.1167 | 0.0586 | 0.19432 |
| 20 | 22.808 | 23.324 | 24.005 | 0.41599 | 22.72 | 23.331 | 24.124 | 0.44658 | -0.3459 | 0.00702 | 0.3039 | 0.23652 |
| 30 | 22.794 | 23.347 | 23.662 | 0.25943 | 22.864 | 23.364 | 23.591 | 0.21673 | -0.3942 | 0.01708 | 0.7693 | 0.36103 |
| 50 | 22.901 | 23.479 | 23.969 | 0.38184 | 22.926 | 23.561 | 23.808 | 0.29416 | -0.6266 | 0.08231 | 0.5294 | 0.35057 |

# Device Test: 17.102 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN2/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.933 | 22.85 | -0.083 |
| 2 | 20 | Bias | 23.601 | 23.518 | -0.0825 |
| 3 | 20 | Bias | 22.611 | 23.053 | 0.4416 |
| 4 | 20 | Bias | 23.8 | 23.827 | 0.0269 |
| 5 | 20 | Bias | 23.508 | 23.494 | -0.0148 |
| 6 | 20 | Unbiased | 22.935 | 22.743 | -0.192 |
| 7 | 20 | Unbiased | 23.215 | 23.194 | -0.0213 |
| 8 | 20 | Unbiased | 23.122 | 23.012 | -0.1106 |
| 9 | 20 | Unbiased | 23.727 | 23.703 | -0.024 |
| 10 | 20 | Unbiased | 22.766 | 22.79 | 0.0242 |
| 11 | 30 | Bias | 23.207 | 23.185 | -0.0227 |
| 12 | 30 | Bias | 23.11 | 23.201 | 0.0905 |
| 13 | 30 | Bias | 23.247 | 23.182 | -0.0649 |
| 14 | 30 | Bias | 22.767 | 23.286 | 0.5192 |
| 15 | 30 | Bias | 23.283 | 22.886 | -0.3973 |
| 16 | 30 | Unbiased | 23.432 | 23.273 | -0.1587 |
| 17 | 30 | Unbiased | 23.493 | 23.404 | -0.089 |
| 18 | 30 | Unbiased | 23.122 | 23.639 | 0.5165 |
| 19 | 30 | Unbiased | 23.135 | 23.127 | -0.0083 |
| 20 | 30 | Unbiased | 23.214 | 23.088 | -0.1261 |
| 21 | 50 | Bias | 22.831 | 23.229 | 0.3986 |
| 22 | 50 | Bias | 22.901 | 22.953 | 0.0519 |
| 23 | 50 | Bias | 23.753 | 23.351 | -0.4016 |
| 24 | 50 | Bias | 23.019 | 23.738 | 0.719 |
| 25 | 50 | Bias | 23.401 | 23.5 | 0.0989 |
| 26 | 50 | Unbiased | 23.572 | 23.716 | 0.1441 |
| 27 | 50 | Unbiased | 23.14 | 23.335 | 0.1954 |
| 28 | 50 | Unbiased | 23.533 | 23.446 | -0.0867 |
| 29 | 50 | Unbiased | 23.691 | 23.782 | 0.0911 |
| 30 | 50 | Unbiased | 23.225 | 23.441 | 0.2163 |
| 31 | 0 | Correlation | 23.189 | 23.151 | -0.038 |
| 32 | 0 | Correlation | 22.911 | 22.932 | 0.0209 |
| 33 | 0 | Correlation | 23.693 | 23.684 | -0.0088 |
| 34 | 0 | Correlation | 23.415 | 23.203 | -0.2118 |

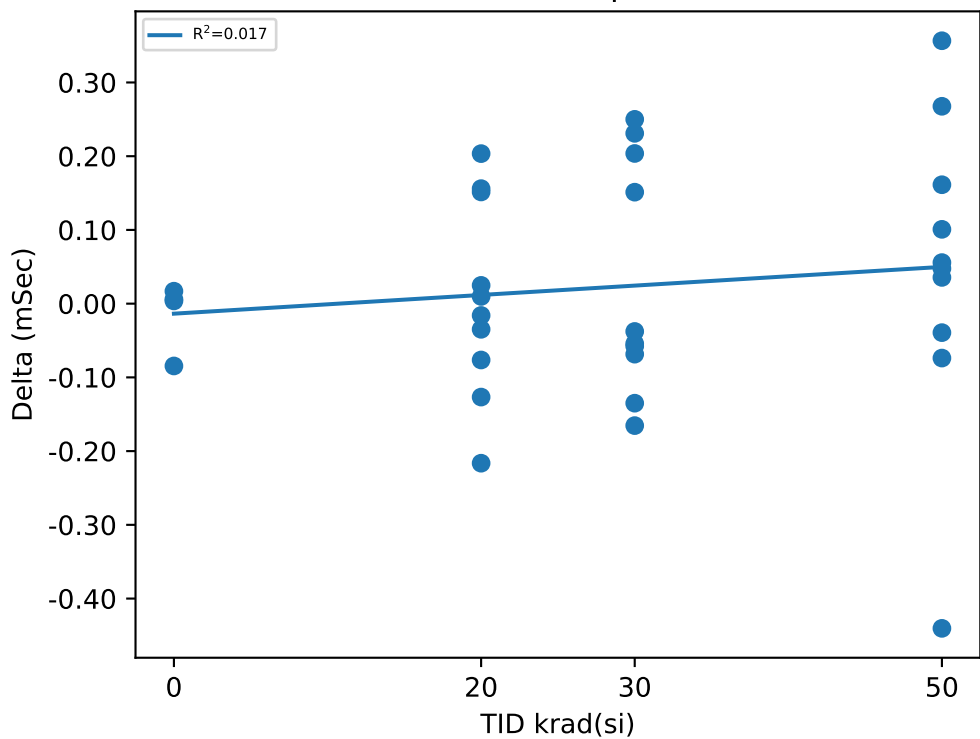## Test Statistics (mSec)
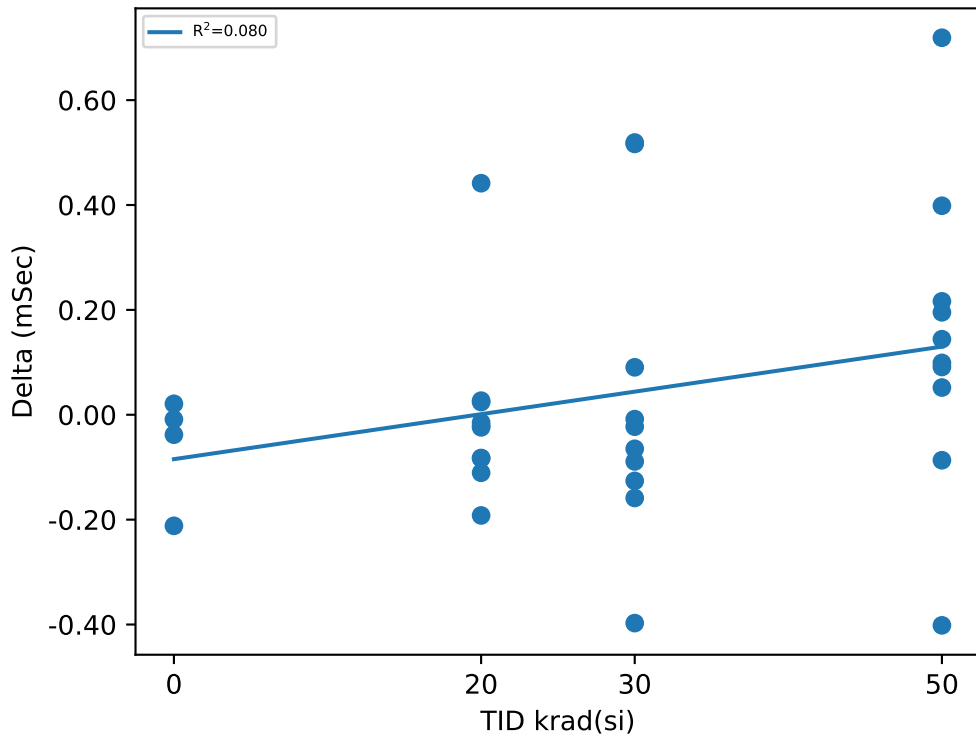
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.911 | 23.302 | 23.693 | 0.33225 | 22.932 | 23.243 | 23.684 | 0.31696 | -0.2118 | -0.059425 | 0.0209 | 0.10439 |
| 20 | 22.611 | 23.222 | 23.8 | 0.41796 | 22.743 | 23.218 | 23.827 | 0.39262 | -0.192 | -0.00355 | 0.4416 | 0.17004 |
| 30 | 22.767 | 23.201 | 23.493 | 0.19854 | 22.886 | 23.227 | 23.639 | 0.1992 | -0.3973 | 0.02592 | 0.5192 | 0.28857 |
| 50 | 22.831 | 23.306 | 23.753 | 0.33087 | 22.953 | 23.449 | 23.782 | 0.25506 | -0.4016 | 0.1427 | 0.719 | 0.29203 |

# Device Test: 17.103 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN3/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

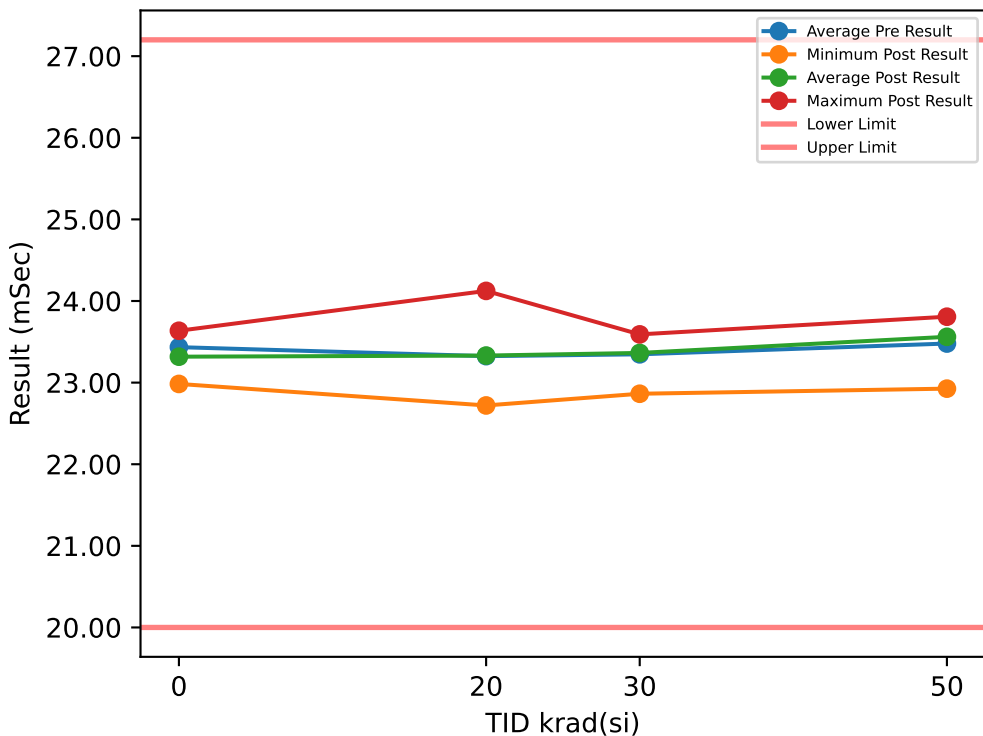| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.939 | 22.855 | -0.0844 |
| 2 | 20 | Bias | 23.602 | 23.502 | -0.0993 |
| 3 | 20 | Bias | 22.61 | 23.041 | 0.4306 |
| 4 | 20 | Bias | 23.815 | 23.831 | 0.0164 |
| 5 | 20 | Bias | 23.513 | 23.502 | -0.0113 |
| 6 | 20 | Unbiased | 22.94 | 22.755 | -0.1848 |
| 7 | 20 | Unbiased | 23.207 | 23.196 | -0.0112 |
| 8 | 20 | Unbiased | 23.122 | 23.015 | -0.1067 |
| 9 | 20 | Unbiased | 23.728 | 23.671 | -0.0569 |
| 10 | 20 | Unbiased | 22.767 | 23.138 | 0.3716 |
| 11 | 30 | Bias | 23.059 | 23.188 | 0.1295 |
| 12 | 30 | Bias | 23.141 | 23.222 | 0.0804 |
| 13 | 30 | Bias | 23.292 | 23.169 | -0.123 |
| 14 | 30 | Bias | 22.767 | 23.323 | 0.5559 |
| 15 | 30 | Bias | 23.29 | 22.887 | -0.4021 |
| 16 | 30 | Unbiased | 23.415 | 23.277 | -0.1376 |
| 17 | 30 | Unbiased | 23.529 | 23.436 | -0.0925 |
| 18 | 30 | Unbiased | 23.117 | 23.64 | 0.5229 |
| 19 | 30 | Unbiased | 23.143 | 23.145 | 0.0015 |
| 20 | 30 | Unbiased | 23.202 | 23.094 | -0.1085 |
| 21 | 50 | Bias | 23.178 | 23.211 | 0.0324 |
| 22 | 50 | Bias | 22.914 | 22.948 | 0.0341 |
| 23 | 50 | Bias | 23.752 | 23.04 | -0.7118 |
| 24 | 50 | Bias | 23.034 | 23.743 | 0.7089 |
| 25 | 50 | Bias | 23.376 | 23.471 | 0.0953 |
| 26 | 50 | Unbiased | 23.577 | 23.695 | 0.1174 |
| 27 | 50 | Unbiased | 23.139 | 23.003 | -0.1361 |
| 28 | 50 | Unbiased | 23.517 | 23.463 | -0.054 |
| 29 | 50 | Unbiased | 23.679 | 23.782 | 0.1038 |
| 30 | 50 | Unbiased | 23.247 | 23.473 | 0.2266 |
| 31 | 0 | Correlation | 23.176 | 23.497 | 0.321 |
| 32 | 0 | Correlation | 22.913 | 22.933 | 0.0205 |
| 33 | 0 | Correlation | 23.691 | 23.68 | -0.011 |
| 34 | 0 | Correlation | 23.405 | 23.211 | -0.1942 |

## Test Statistics (mSec)
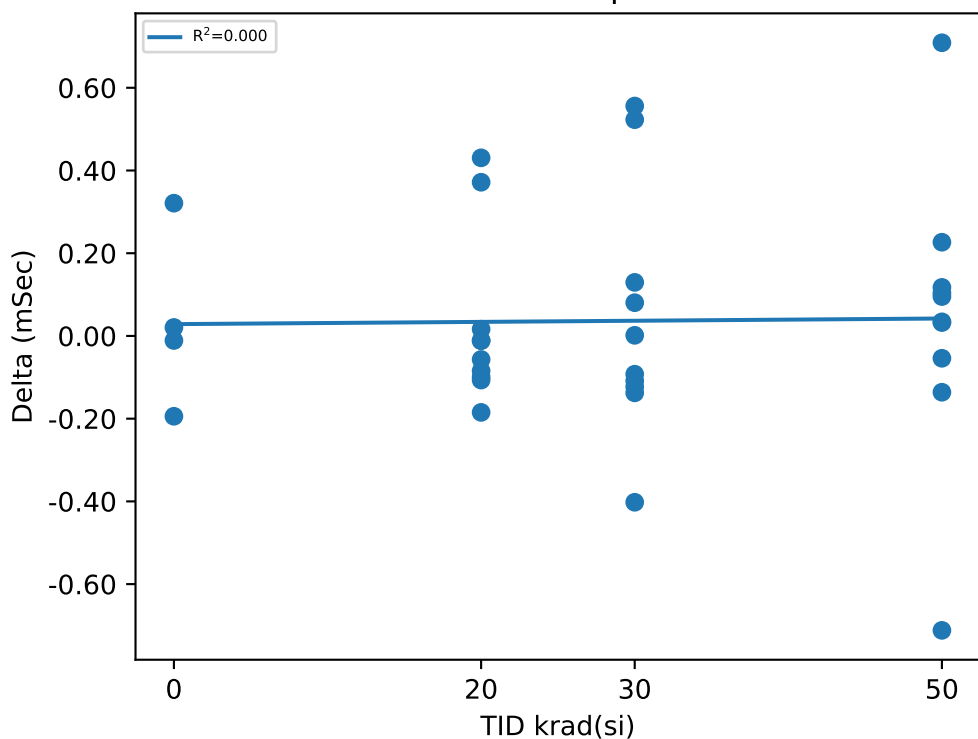
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.913 | 23.296 | 23.691 | 0.33117 | 22.933 | 23.33 | 23.68 | 0.32744 | -0.1942 | 0.034075 | 0.321 | 0.21343 |
| 20 | 22.61 | 23.224 | 23.815 | 0.41997 | 22.755 | 23.251 | 23.831 | 0.35858 | -0.1848 | 0.0264 | 0.4306 | 0.20624 |
| 30 | 22.767 | 23.195 | 23.529 | 0.20856 | 22.887 | 23.238 | 23.64 | 0.20257 | -0.4021 | 0.04265 | 0.5559 | 0.29881 |
| 50 | 22.914 | 23.341 | 23.752 | 0.28353 | 22.948 | 23.383 | 23.782 | 0.31443 | -0.7118 | 0.04166 | 0.7089 | 0.34968 |
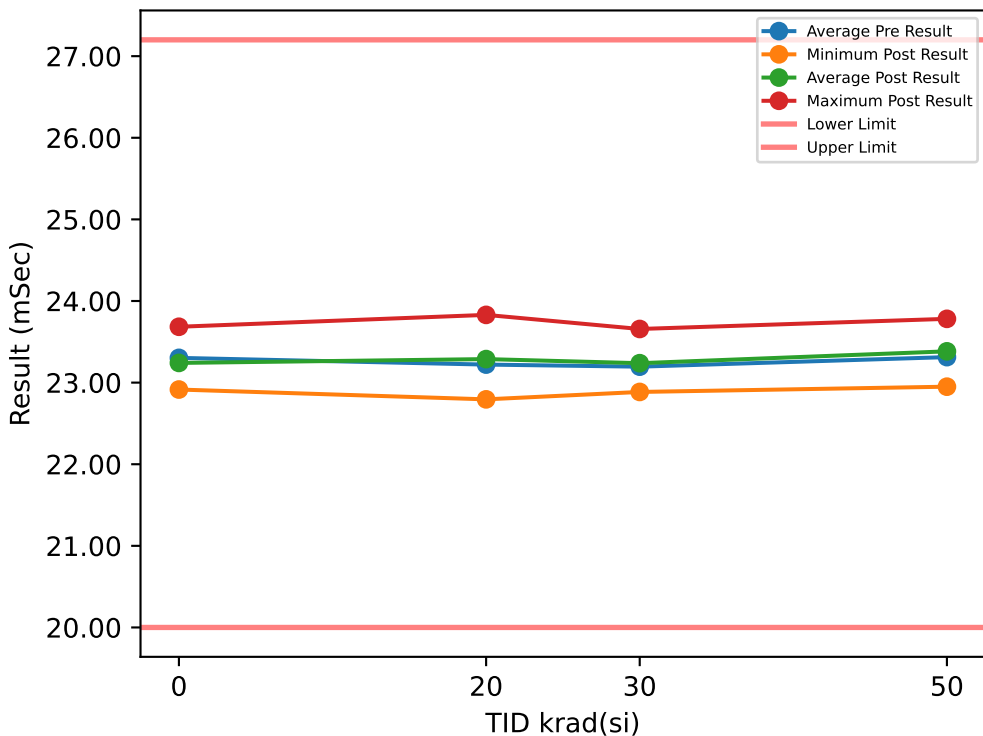
# Device Test: 17.104 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN4/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

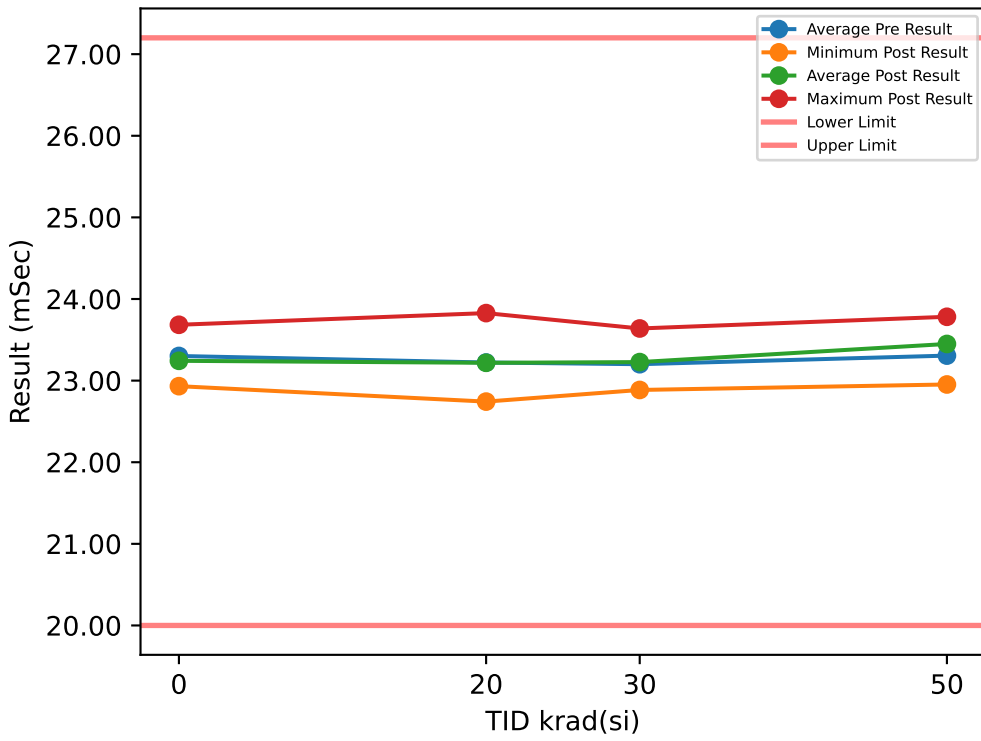| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.937 | 23.202 | 0.2655 |
| 2 | 20 | Bias | 23.598 | 23.519 | -0.0788 |
| 3 | 20 | Bias | 22.596 | 23.039 | 0.4423 |
| 4 | 20 | Bias | 23.815 | 23.83 | 0.0145 |
| 5 | 20 | Bias | 23.489 | 23.521 | 0.0316 |
| 6 | 20 | Unbiased | 22.939 | 23.09 | 0.1509 |
| 7 | 20 | Unbiased | 23.23 | 23.191 | -0.0386 |
| 8 | 20 | Unbiased | 23.145 | 22.998 | -0.1469 |
| 9 | 20 | Unbiased | 23.717 | 23.697 | -0.02 |
| 10 | 20 | Unbiased | 22.743 | 22.795 | 0.0523 |
| 11 | 30 | Bias | 23.059 | 23.184 | 0.1256 |
| 12 | 30 | Bias | 23.141 | 23.22 | 0.0789 |
| 13 | 30 | Bias | 23.256 | 23.189 | -0.0664 |
| 14 | 30 | Bias | 22.766 | 23.313 | 0.5472 |
| 15 | 30 | Bias | 23.275 | 22.886 | -0.3891 |
| 16 | 30 | Unbiased | 23.433 | 23.261 | -0.1724 |
| 17 | 30 | Unbiased | 23.528 | 23.432 | -0.0959 |
| 18 | 30 | Unbiased | 23.125 | 23.657 | 0.5319 |
| 19 | 30 | Unbiased | 23.153 | 23.144 | -0.0092 |
| 20 | 30 | Unbiased | 23.218 | 23.094 | -0.1249 |
| 21 | 50 | Bias | 22.849 | 23.23 | 0.3806 |
| 22 | 50 | Bias | 22.915 | 22.95 | 0.0354 |
| 23 | 50 | Bias | 23.754 | 23.002 | -0.7519 |
| 24 | 50 | Bias | 23.025 | 23.744 | 0.719 |
| 25 | 50 | Bias | 23.401 | 23.5 | 0.0983 |
| 26 | 50 | Unbiased | 23.576 | 23.71 | 0.134 |
| 27 | 50 | Unbiased | 23.139 | 23.004 | -0.1349 |
| 28 | 50 | Unbiased | 23.532 | 23.441 | -0.0907 |
| 29 | 50 | Unbiased | 23.686 | 23.781 | 0.0957 |
| 30 | 50 | Unbiased | 23.247 | 23.469 | 0.2226 |
| 31 | 0 | Correlation | 23.19 | 23.152 | -0.0374 |
| 32 | 0 | Correlation | 22.931 | 22.915 | -0.0156 |
| 33 | 0 | Correlation | 23.676 | 23.684 | 0.008 |
| 34 | 0 | Correlation | 23.415 | 23.213 | -0.2023 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.931 | 23.303 | 23.676 | 0.31793 | 22.915 | 23.241 | 23.684 | 0.32208 | -0.2023 | -0.061825 | 0.008 | 0.095467 |
| 20 | 22.596 | 23.221 | 23.815 | 0.4214 | 22.795 | 23.288 | 23.83 | 0.33561 | -0.1469 | 0.06728 | 0.4423 | 0.17551 |
| 30 | 22.766 | 23.195 | 23.528 | 0.20834 | 22.886 | 23.238 | 23.657 | 0.20517 | -0.3891 | 0.04257 | 0.5472 | 0.29751 |
| 50 | 22.849 | 23.312 | 23.754 | 0.32483 | 22.95 | 23.383 | 23.781 | 0.31971 | -0.7519 | 0.07081 | 0.719 | 0.37875 |
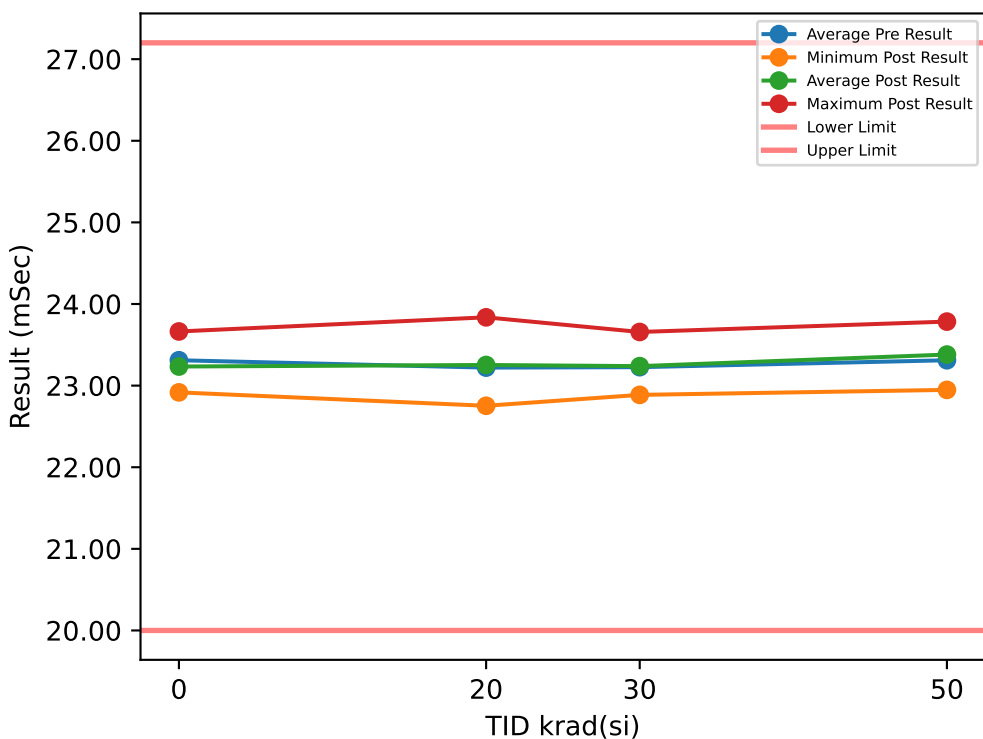
# Device Test: 17.105 DLY_TMR_1MOHM(_DELAY|STEP_UP/SEQ_DONE/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

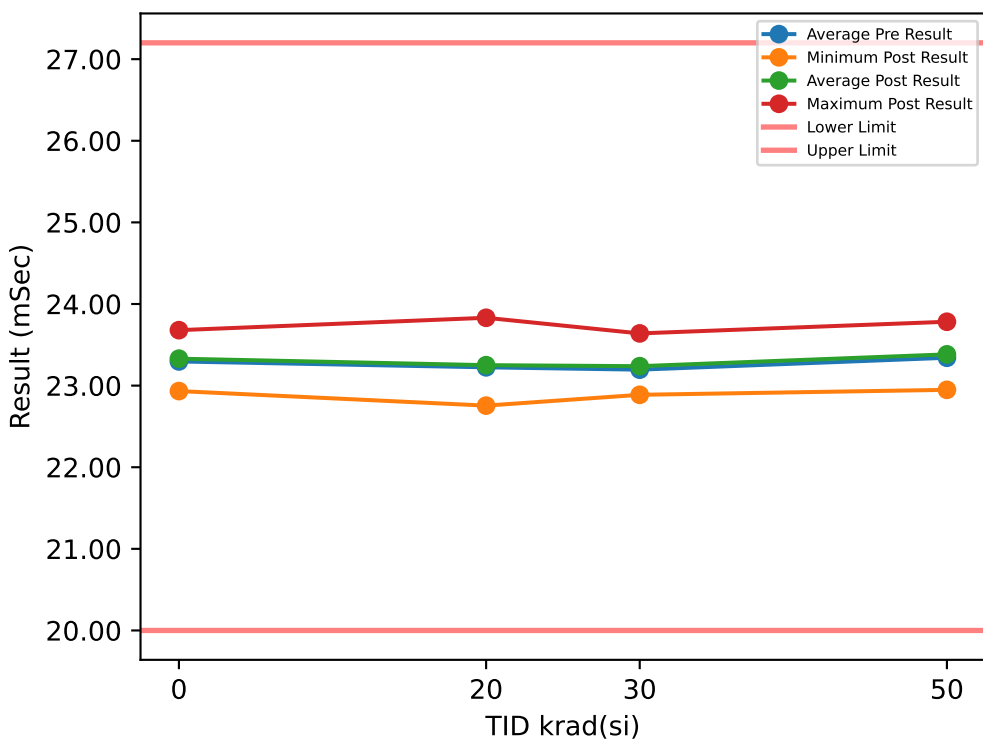| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.934 | 22.875 | -0.0582 |
| 2 | 20 | Bias | 23.591 | 23.498 | -0.0935 |
| 3 | 20 | Bias | 22.616 | 23.05 | 0.4347 |
| 4 | 20 | Bias | 23.778 | 23.837 | 0.0588 |
| 5 | 20 | Bias | 23.51 | 23.508 | -0.0016 |
| 6 | 20 | Unbiased | 22.94 | 22.753 | -0.1875 |
| 7 | 20 | Unbiased | 23.228 | 23.193 | -0.0347 |
| 8 | 20 | Unbiased | 23.147 | 23.002 | -0.1453 |
| 9 | 20 | Unbiased | 23.722 | 23.679 | -0.0428 |
| 10 | 20 | Unbiased | 22.74 | 23.132 | 0.3921 |
| 11 | 30 | Bias | 23.386 | 23.186 | -0.2001 |
| 12 | 30 | Bias | 23.126 | 23.218 | 0.0913 |
| 13 | 30 | Bias | 23.294 | 23.161 | -0.1326 |
| 14 | 30 | Bias | 22.747 | 23.321 | 0.5746 |
| 15 | 30 | Bias | 23.29 | 22.887 | -0.4035 |
| 16 | 30 | Unbiased | 23.43 | 23.28 | -0.1504 |
| 17 | 30 | Unbiased | 23.508 | 23.439 | -0.0688 |
| 18 | 30 | Unbiased | 23.128 | 23.657 | 0.5293 |
| 19 | 30 | Unbiased | 23.141 | 23.144 | 0.0023 |
| 20 | 30 | Unbiased | 23.21 | 23.093 | -0.1167 |
| 21 | 50 | Bias | 22.851 | 23.23 | 0.3791 |
| 22 | 50 | Bias | 22.916 | 22.948 | 0.0319 |
| 23 | 50 | Bias | 23.754 | 23.035 | -0.7192 |
| 24 | 50 | Bias | 23.037 | 23.744 | 0.707 |
| 25 | 50 | Bias | 23.401 | 23.502 | 0.101 |
| 26 | 50 | Unbiased | 23.55 | 23.682 | 0.1325 |
| 27 | 50 | Unbiased | 23.143 | 22.977 | -0.1654 |
| 28 | 50 | Unbiased | 23.535 | 23.447 | -0.0883 |
| 29 | 50 | Unbiased | 23.679 | 23.784 | 0.1056 |
| 30 | 50 | Unbiased | 23.242 | 23.456 | 0.2134 |
| 31 | 0 | Correlation | 23.19 | 23.15 | -0.0397 |
| 32 | 0 | Correlation | 22.942 | 22.917 | -0.0246 |
| 33 | 0 | Correlation | 23.696 | 23.663 | -0.0328 |
| 34 | 0 | Correlation | 23.415 | 23.205 | -0.2108 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.942 | 23.311 | 23.696 | 0.32159 | 22.917 | 23.234 | 23.663 | 0.31233 | -0.2108 | -0.076975 | -0.0246 | 0.08943 |
| 20 | 22.616 | 23.221 | 23.778 | 0.41451 | 22.753 | 23.253 | 23.837 | 0.35941 | -0.1875 | 0.0322 | 0.4347 | 0.21272 |
| 30 | 22.747 | 23.226 | 23.508 | 0.21403 | 22.887 | 23.239 | 23.657 | 0.20746 | -0.4035 | 0.01254 | 0.5746 | 0.31243 |
| 50 | 22.851 | 23.311 | 23.754 | 0.32024 | 22.948 | 23.381 | 23.784 | 0.3167 | -0.7192 | 0.06976 | 0.707 | 0.3701 |

# Device Test: 17.106 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN1/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.953 | 22.892 | -0.06 |
| 2 | 20 | Bias | 23.618 | 23.519 | -0.0986 |
| 3 | 20 | Bias | 22.631 | 22.708 | 0.0767 |
| 4 | 20 | Bias | 23.819 | 23.85 | 0.0313 |
| 5 | 20 | Bias | 23.502 | 23.517 | 0.0145 |
| 6 | 20 | Unbiased | 22.956 | 22.775 | -0.1801 |
| 7 | 20 | Unbiased | 23.247 | 23.209 | -0.0373 |
| 8 | 20 | Unbiased | 23.158 | 23.03 | -0.1274 |
| 9 | 20 | Unbiased | 23.724 | 23.723 | -0.0008 |
| 10 | 20 | Unbiased | 22.776 | 22.814 | 0.0376 |
| 11 | 30 | Bias | 23.076 | 23.205 | 0.1285 |
| 12 | 30 | Bias | 23.157 | 23.238 | 0.0809 |
| 13 | 30 | Bias | 23.288 | 23.172 | -0.1165 |
| 14 | 30 | Bias | 22.755 | 23.32 | 0.5646 |
| 15 | 30 | Bias | 23.306 | 22.903 | -0.4023 |
| 16 | 30 | Unbiased | 23.439 | 23.296 | -0.143 |
| 17 | 30 | Unbiased | 23.545 | 23.442 | -0.103 |
| 18 | 30 | Unbiased | 23.105 | 23.861 | 0.7559 |
| 19 | 30 | Unbiased | 23.142 | 23.162 | 0.0193 |
| 20 | 30 | Unbiased | 23.235 | 23.081 | -0.1535 |
| 21 | 50 | Bias | 22.867 | 23.24 | 0.3721 |
| 22 | 50 | Bias | 22.933 | 22.949 | 0.0162 |
| 23 | 50 | Bias | 23.769 | 23.034 | -0.7347 |
| 24 | 50 | Bias | 23.054 | 23.949 | 0.8956 |
| 25 | 50 | Bias | 23.417 | 23.509 | 0.0916 |
| 26 | 50 | Unbiased | 23.578 | 23.733 | 0.1549 |
| 27 | 50 | Unbiased | 23.14 | 22.999 | -0.141 |
| 28 | 50 | Unbiased | 23.522 | 23.483 | -0.0399 |
| 29 | 50 | Unbiased | 23.895 | 23.798 | -0.0974 |
| 30 | 50 | Unbiased | 23.265 | 23.486 | 0.2215 |
| 31 | 0 | Correlation | 23.2 | 23.184 | -0.0154 |
| 32 | 0 | Correlation | 22.957 | 22.943 | -0.0141 |
| 33 | 0 | Correlation | 23.9 | 23.694 | -0.2056 |
| 34 | 0 | Correlation | 23.409 | 23.231 | -0.1773 |

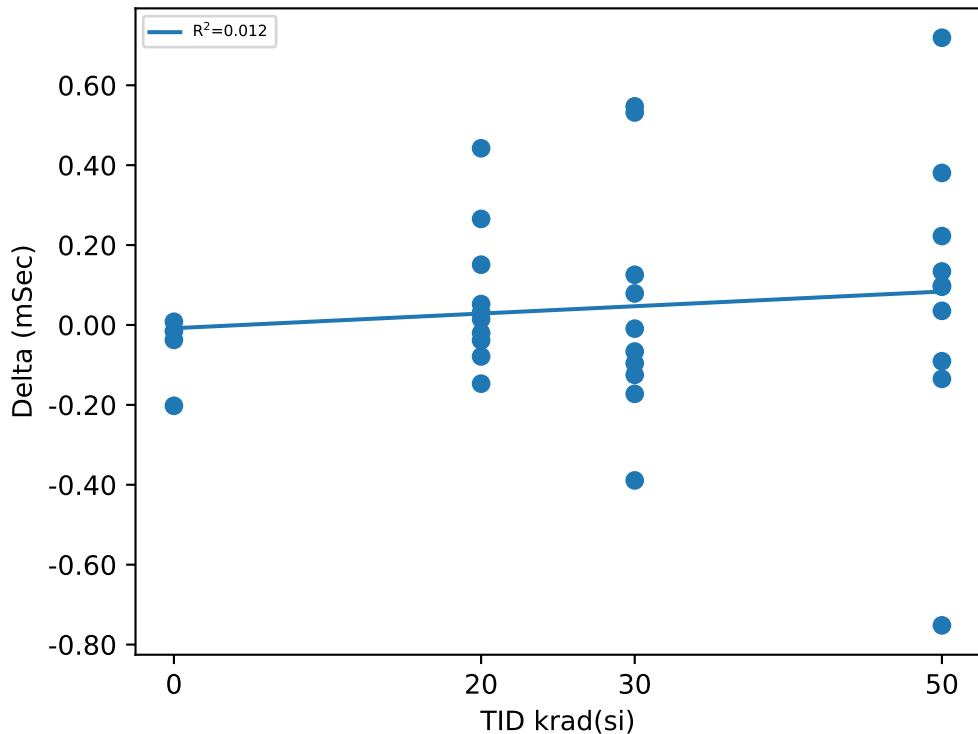## Test Statistics (mSec)
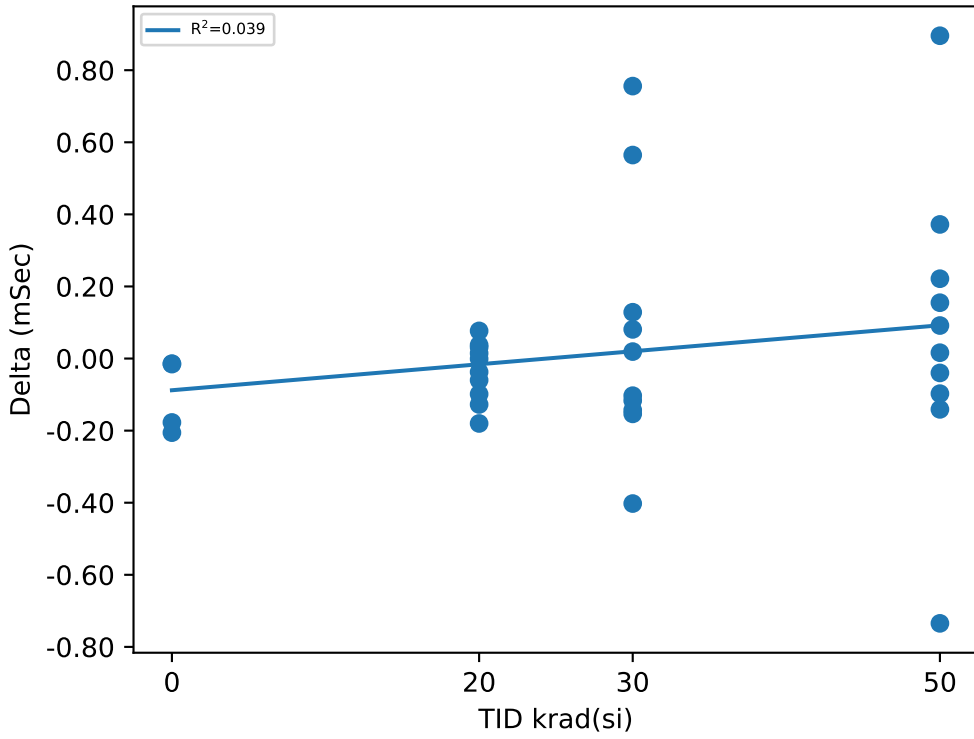
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.957 | 23.366 | 23.9 | 0.40064 | 22.943 | 23.263 | 23.694 | 0.31385 | -0.2056 | -0.1031 | -0.0141 | 0.10267 |
| 20 | 22.631 | 23.238 | 23.819 | 0.41322 | 22.708 | 23.204 | 23.85 | 0.42075 | -0.1801 | -0.03441 | 0.0767 | 0.081668 |
| 30 | 22.755 | 23.205 | 23.545 | 0.21699 | 22.903 | 23.268 | 23.861 | 0.25351 | -0.4023 | 0.06309 | 0.7559 | 0.35021 |
| 50 | 22.867 | 23.344 | 23.895 | 0.35036 | 22.949 | 23.418 | 23.949 | 0.35236 | -0.7347 | 0.07389 | 0.8956 | 0.41344 |
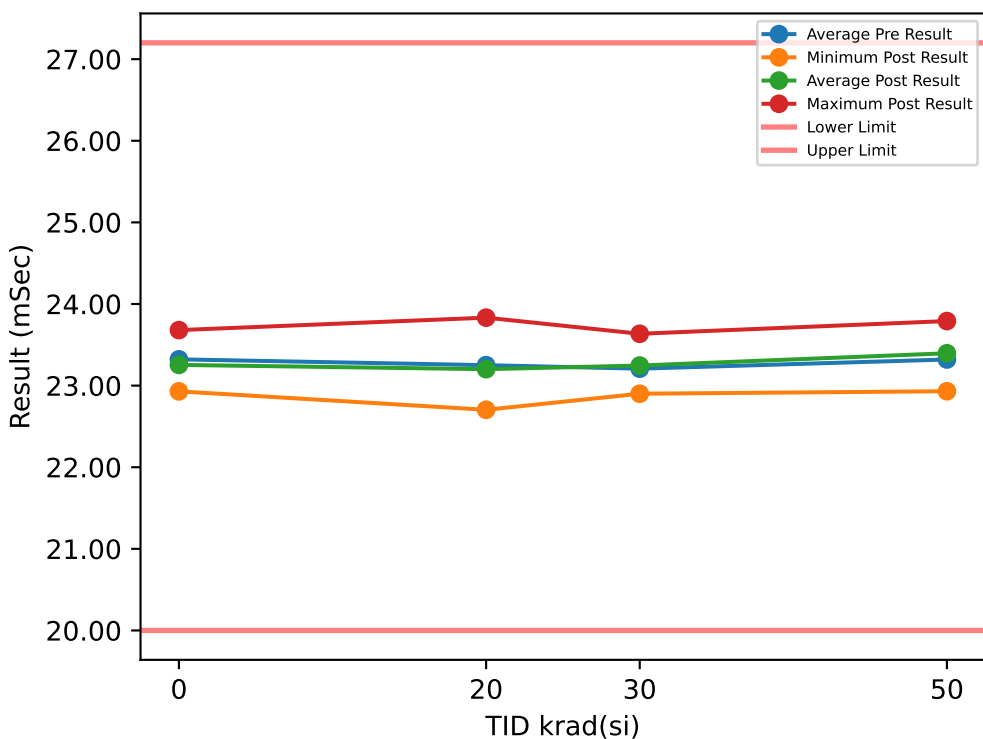
# Device Test: 17.107 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN2/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.945 | 22.887 | -0.0587 |
| 2 | 20 | Bias | 23.612 | 23.531 | -0.081 |
| 3 | 20 | Bias | 22.6 | 22.704 | 0.104 |
| 4 | 20 | Bias | 23.805 | 23.833 | 0.0273 |
| 5 | 20 | Bias | 23.523 | 23.534 | 0.0106 |
| 6 | 20 | Unbiased | 22.934 | 22.769 | -0.1642 |
| 7 | 20 | Unbiased | 23.241 | 23.201 | -0.04 |
| 8 | 20 | Unbiased | 23.16 | 23.026 | -0.1334 |
| 9 | 20 | Unbiased | 23.929 | 23.719 | -0.2099 |
| 10 | 20 | Unbiased | 22.757 | 22.811 | 0.0541 |
| 11 | 30 | Bias | 23.071 | 23.193 | 0.1218 |
| 12 | 30 | Bias | 23.152 | 23.232 | 0.0796 |
| 13 | 30 | Bias | 23.305 | 23.198 | -0.1069 |
| 14 | 30 | Bias | 22.771 | 23.334 | 0.5629 |
| 15 | 30 | Bias | 23.284 | 22.901 | -0.3836 |
| 16 | 30 | Unbiased | 23.441 | 23.267 | -0.1741 |
| 17 | 30 | Unbiased | 23.539 | 23.451 | -0.0884 |
| 18 | 30 | Unbiased | 23.117 | 23.635 | 0.5184 |
| 19 | 30 | Unbiased | 23.165 | 23.156 | -0.0092 |
| 20 | 30 | Unbiased | 23.23 | 23.093 | -0.1377 |
| 21 | 50 | Bias | 22.863 | 23.242 | 0.3797 |
| 22 | 50 | Bias | 22.923 | 22.931 | 0.0083 |
| 23 | 50 | Bias | 23.726 | 23.052 | -0.6746 |
| 24 | 50 | Bias | 23.049 | 23.757 | 0.7081 |
| 25 | 50 | Bias | 23.413 | 23.514 | 0.1008 |
| 26 | 50 | Unbiased | 23.59 | 23.732 | 0.141 |
| 27 | 50 | Unbiased | 23.127 | 23.004 | -0.1231 |
| 28 | 50 | Unbiased | 23.549 | 23.457 | -0.0917 |
| 29 | 50 | Unbiased | 23.702 | 23.791 | 0.0891 |
| 30 | 50 | Unbiased | 23.258 | 23.483 | 0.2251 |
| 31 | 0 | Correlation | 23.2 | 23.179 | -0.0208 |
| 32 | 0 | Correlation | 22.953 | 22.93 | -0.023 |
| 33 | 0 | Correlation | 23.708 | 23.68 | -0.0275 |
| 34 | 0 | Correlation | 23.427 | 23.226 | -0.2007 |

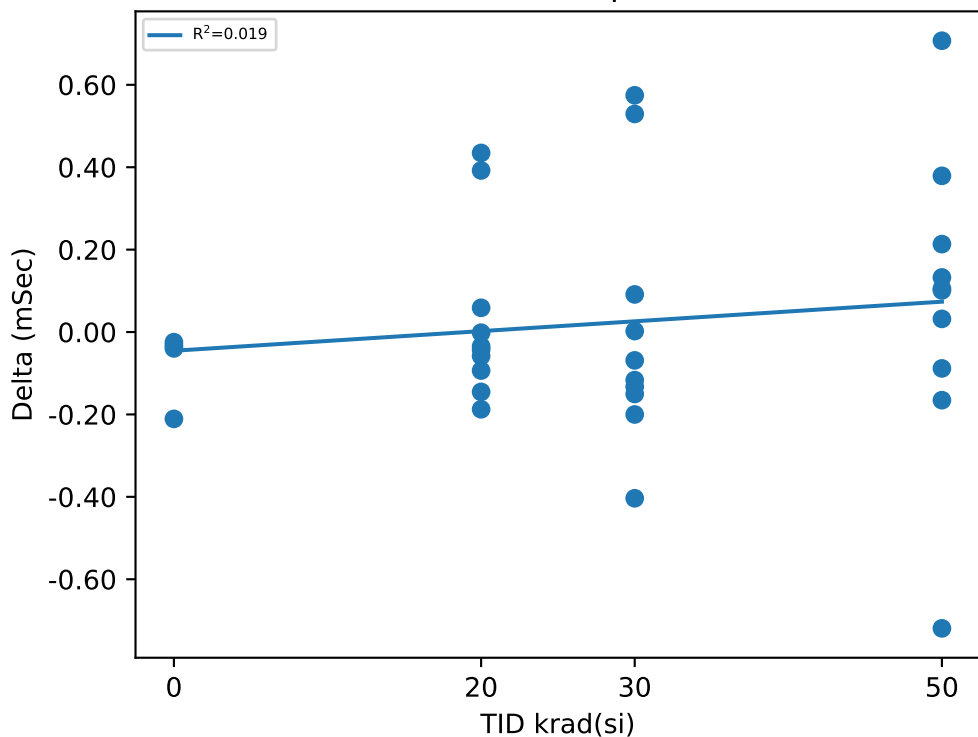## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.953 | 23.322 | 23.708 | 0.32195 | 22.93 | 23.254 | 23.68 | 0.31255 | -0.2007 | -0.068 | -0.0208 | 0.088511 |
| 20 | 22.6 | 23.251 | 23.929 | 0.4523 | 22.704 | 23.201 | 23.833 | 0.42179 | -0.2099 | -0.04912 | 0.104 | 0.1005 |
| 30 | 22.771 | 23.208 | 23.539 | 0.21137 | 22.901 | 23.246 | 23.635 | 0.19936 | -0.3836 | 0.03828 | 0.5629 | 0.2996 |
| 50 | 22.863 | 23.32 | 23.726 | 0.32091 | 22.931 | 23.396 | 23.791 | 0.32247 | -0.6746 | 0.07627 | 0.7081 | 0.3582 |

# Device Test: 17.108 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN3/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

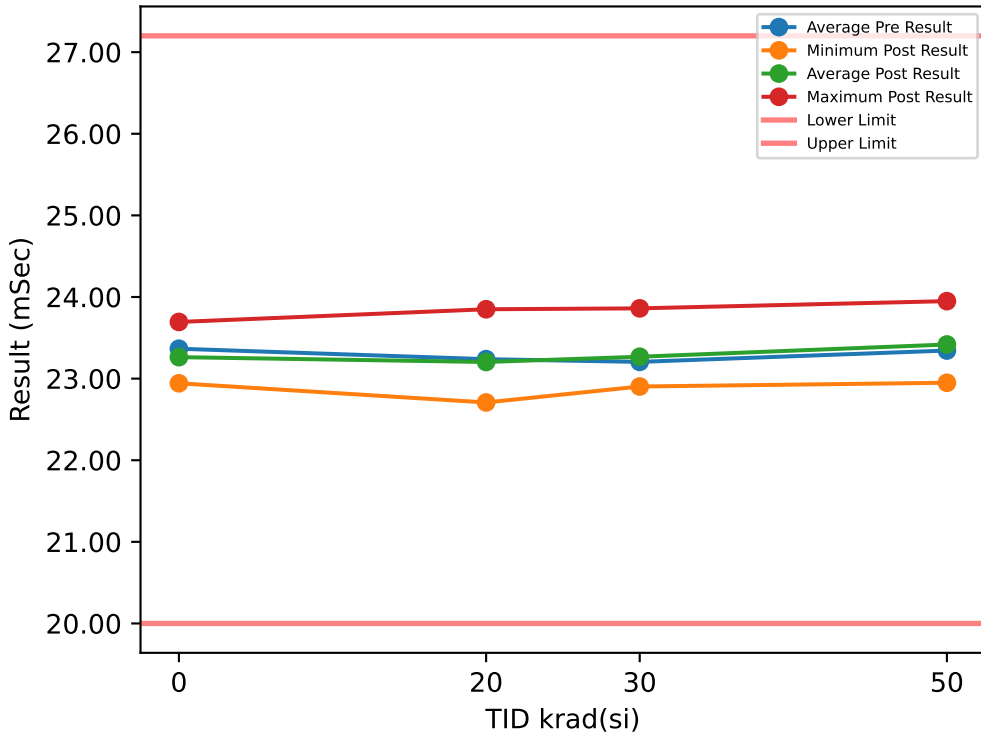| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.947 | 22.886 | -0.0604 |
| 2 | 20 | Bias | 23.588 | 23.51 | -0.0784 |
| 3 | 20 | Bias | 22.606 | 23.05 | 0.4445 |
| 4 | 20 | Bias | 23.816 | 23.827 | 0.0113 |
| 5 | 20 | Bias | 23.522 | 23.522 | 0.0005 |
| 6 | 20 | Unbiased | 22.933 | 22.747 | -0.1864 |
| 7 | 20 | Unbiased | 23.231 | 23.204 | -0.0275 |
| 8 | 20 | Unbiased | 23.16 | 23.026 | -0.1333 |
| 9 | 20 | Unbiased | 23.708 | 23.715 | 0.0063 |
| 10 | 20 | Unbiased | 22.761 | 22.811 | 0.0503 |
| 11 | 30 | Bias | 23.387 | 23.199 | -0.1884 |
| 12 | 30 | Bias | 23.116 | 23.191 | 0.0757 |
| 13 | 30 | Bias | 23.279 | 23.168 | -0.1111 |
| 14 | 30 | Bias | 22.765 | 23.303 | 0.5374 |
| 15 | 30 | Bias | 23.289 | 22.9 | -0.3889 |
| 16 | 30 | Unbiased | 23.44 | 23.292 | -0.1478 |
| 17 | 30 | Unbiased | 23.518 | 23.449 | -0.0691 |
| 18 | 30 | Unbiased | 23.139 | 23.663 | 0.5242 |
| 19 | 30 | Unbiased | 23.163 | 23.118 | -0.0449 |
| 20 | 30 | Unbiased | 23.21 | 23.106 | -0.1047 |
| 21 | 50 | Bias | 22.861 | 23.24 | 0.3792 |
| 22 | 50 | Bias | 22.926 | 22.957 | 0.0311 |
| 23 | 50 | Bias | 23.737 | 23.052 | -0.6854 |
| 24 | 50 | Bias | 23.032 | 23.748 | 0.7155 |
| 25 | 50 | Bias | 23.393 | 23.514 | 0.1208 |
| 26 | 50 | Unbiased | 23.589 | 23.731 | 0.1418 |
| 27 | 50 | Unbiased | 23.153 | 23.009 | -0.1435 |
| 28 | 50 | Unbiased | 23.544 | 23.476 | -0.0673 |
| 29 | 50 | Unbiased | 23.704 | 23.792 | 0.0882 |
| 30 | 50 | Unbiased | 23.247 | 23.461 | 0.2141 |
| 31 | 0 | Correlation | 23.199 | 23.151 | -0.0482 |
| 32 | 0 | Correlation | 22.951 | 22.92 | -0.0313 |
| 33 | 0 | Correlation | 23.708 | 23.695 | -0.0129 |
| 34 | 0 | Correlation | 23.392 | 23.189 | -0.2034 |

## Test Statistics (mSec)
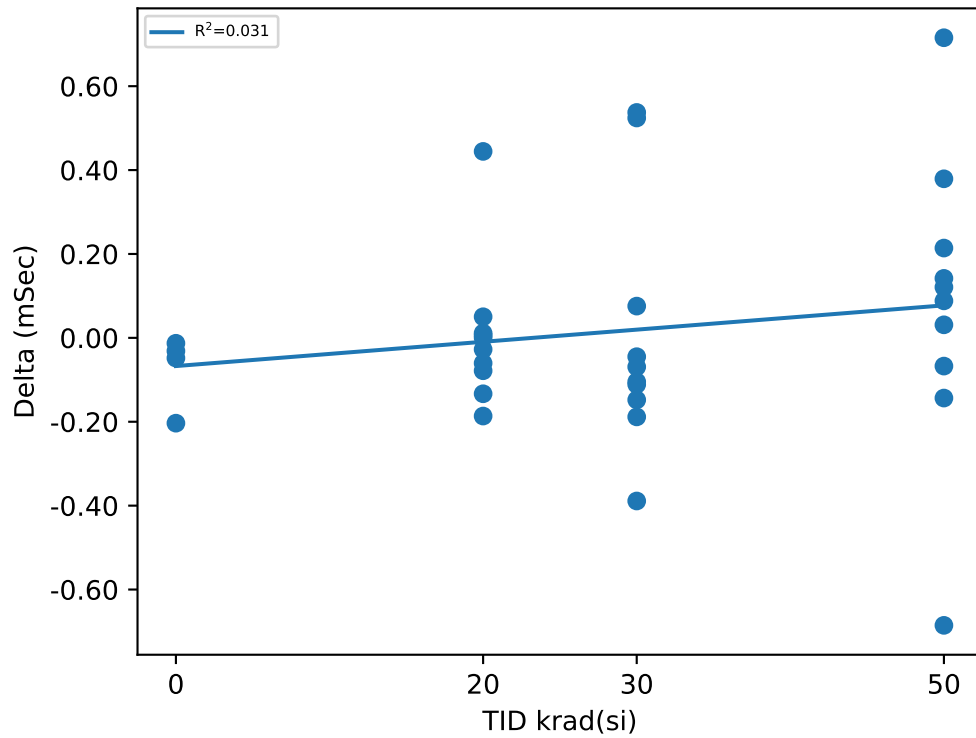
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.951 | 23.313 | 23.708 | 0.31956 | 22.92 | 23.239 | 23.695 | 0.32674 | -0.2034 | -0.07395 | -0.0129 | 0.087496 |
| 20 | 22.606 | 23.227 | 23.816 | 0.41742 | 22.747 | 23.23 | 23.827 | 0.38824 | -0.1864 | 0.00269 | 0.4445 | 0.17103 |
| 30 | 22.765 | 23.231 | 23.518 | 0.21069 | 22.9 | 23.239 | 23.663 | 0.20741 | -0.3889 | 0.00824 | 0.5374 | 0.2995 |
| 50 | 22.861 | 23.319 | 23.737 | 0.32164 | 22.957 | 23.398 | 23.792 | 0.31667 | -0.6854 | 0.07945 | 0.7155 | 0.3616 |

# Device Test: 17.109 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN4/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.931 | 22.884 | -0.0464 |
| 2 | 20 | Bias | 23.578 | 23.502 | -0.0759 |
| 3 | 20 | Bias | 22.625 | 22.701 | 0.0763 |
| 4 | 20 | Bias | 24.02 | 23.822 | -0.1975 |
| 5 | 20 | Bias | 23.49 | 23.511 | 0.0208 |
| 6 | 20 | Unbiased | 22.943 | 22.774 | -0.1687 |
| 7 | 20 | Unbiased | 23.231 | 23.207 | -0.0239 |
| 8 | 20 | Unbiased | 23.125 | 23.026 | -0.0991 |
| 9 | 20 | Unbiased | 23.737 | 23.709 | -0.0279 |
| 10 | 20 | Unbiased | 22.774 | 22.796 | 0.0225 |
| 11 | 30 | Bias | 23.072 | 23.198 | 0.126 |
| 12 | 30 | Bias | 23.128 | 23.23 | 0.1024 |
| 13 | 30 | Bias | 23.302 | 23.203 | -0.0991 |
| 14 | 30 | Bias | 22.744 | 23.331 | 0.5861 |
| 15 | 30 | Bias | 23.293 | 22.898 | -0.3941 |
| 16 | 30 | Unbiased | 23.444 | 23.286 | -0.1587 |
| 17 | 30 | Unbiased | 23.537 | 23.413 | -0.124 |
| 18 | 30 | Unbiased | 23.137 | 23.651 | 0.514 |
| 19 | 30 | Unbiased | 23.154 | 23.131 | -0.0226 |
| 20 | 30 | Unbiased | 23.228 | 23.103 | -0.1252 |
| 21 | 50 | Bias | 22.845 | 23.218 | 0.3734 |
| 22 | 50 | Bias | 22.925 | 22.936 | 0.011 |
| 23 | 50 | Bias | 23.756 | 23.051 | -0.705 |
| 24 | 50 | Bias | 23.042 | 23.729 | 0.6864 |
| 25 | 50 | Bias | 23.41 | 23.504 | 0.0934 |
| 26 | 50 | Unbiased | 23.581 | 23.729 | 0.1473 |
| 27 | 50 | Unbiased | 23.155 | 23.012 | -0.1425 |
| 28 | 50 | Unbiased | 23.521 | 23.477 | -0.0441 |
| 29 | 50 | Unbiased | 23.701 | 23.794 | 0.0931 |
| 30 | 50 | Unbiased | 23.258 | 23.442 | 0.1846 |
| 31 | 0 | Correlation | 23.193 | 23.177 | -0.0165 |
| 32 | 0 | Correlation | 22.951 | 22.942 | -0.0097 |
| 33 | 0 | Correlation | 23.692 | 23.696 | 0.0046 |
| 34 | 0 | Correlation | 23.424 | 23.226 | -0.1988 |

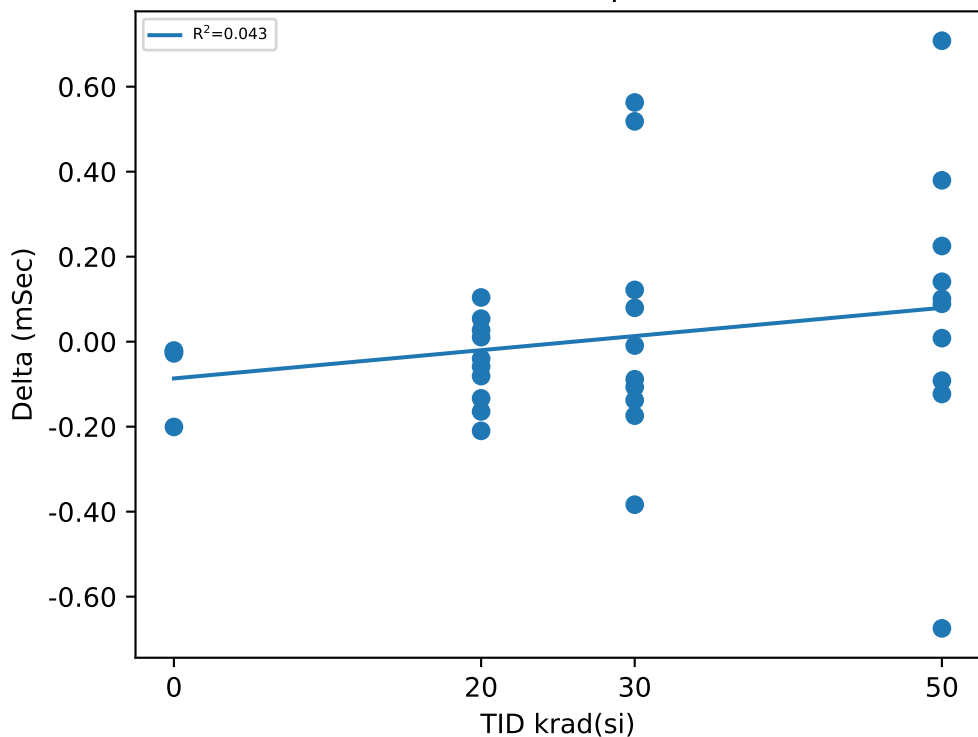## Test Statistics (mSec)
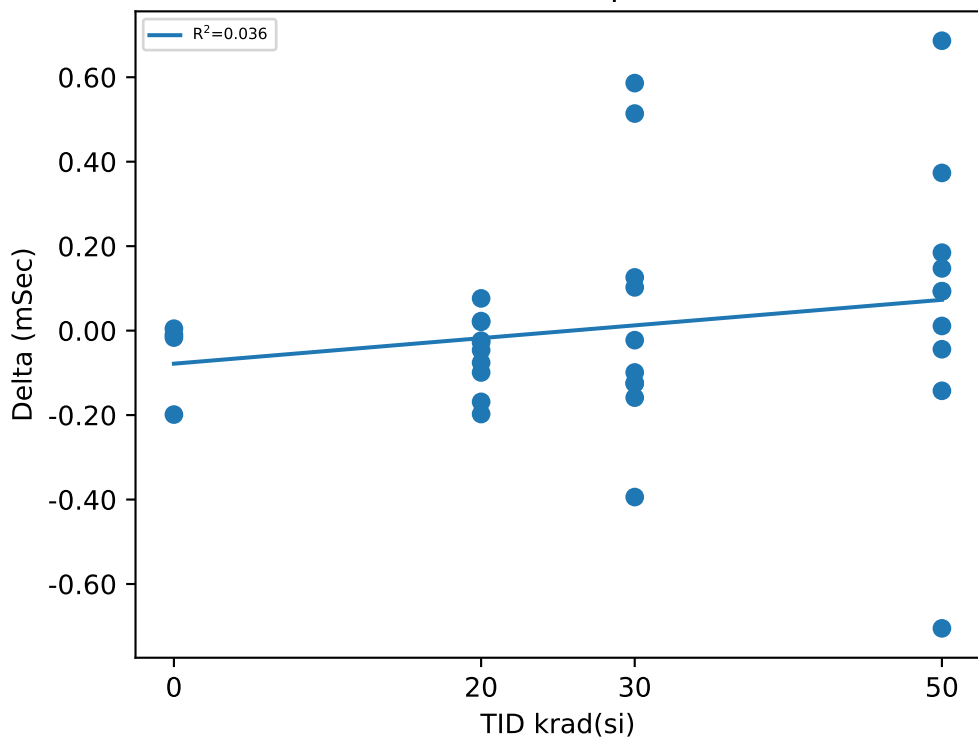
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.951 | 23.315 | 23.692 | 0.31669 | 22.942 | 23.26 | 23.696 | 0.31609 | -0.1988 | -0.0551 | 0.0046 | 0.096203 |
| 20 | 22.625 | 23.245 | 24.02 | 0.45026 | 22.701 | 23.193 | 23.822 | 0.41595 | -0.1975 | -0.05198 | 0.0763 | 0.085824 |
| 30 | 22.744 | 23.204 | 23.537 | 0.21821 | 22.898 | 23.244 | 23.651 | 0.19973 | -0.3941 | 0.04048 | 0.5861 | 0.30543 |
| 50 | 22.845 | 23.319 | 23.756 | 0.32357 | 22.936 | 23.389 | 23.794 | 0.31789 | -0.705 | 0.06976 | 0.6864 | 0.35815 |
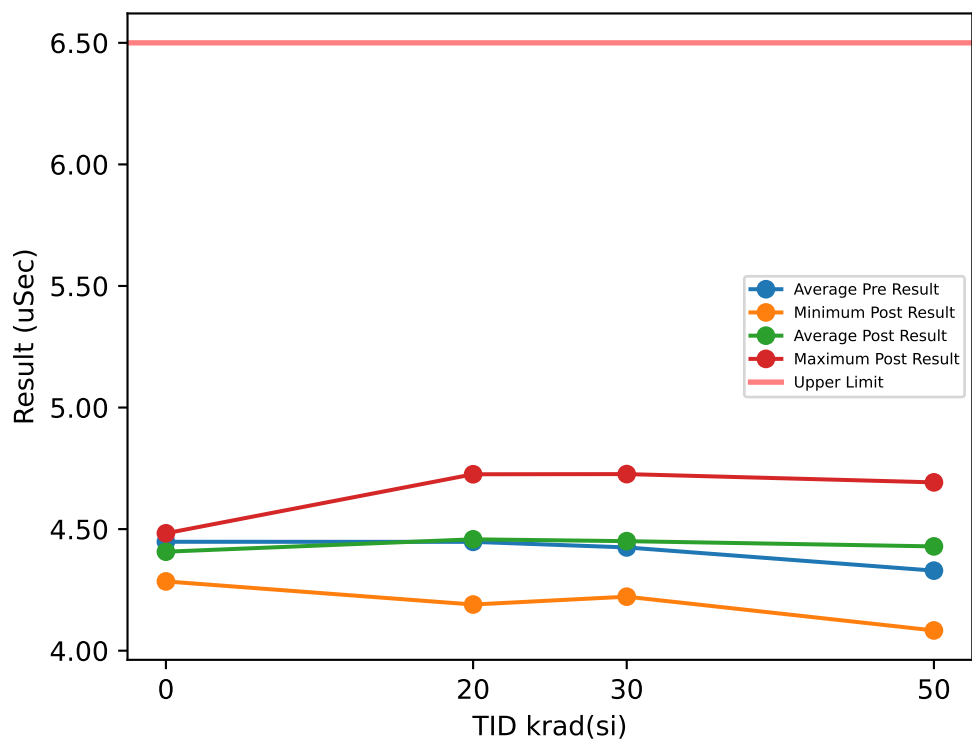
# Device Test: 17.11  TPD_SEQ_DONE(_DELAY|STEP_DOWN/SEQ_DONE/1.6/3/0/0/0/@TPD_SEQ_DONE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

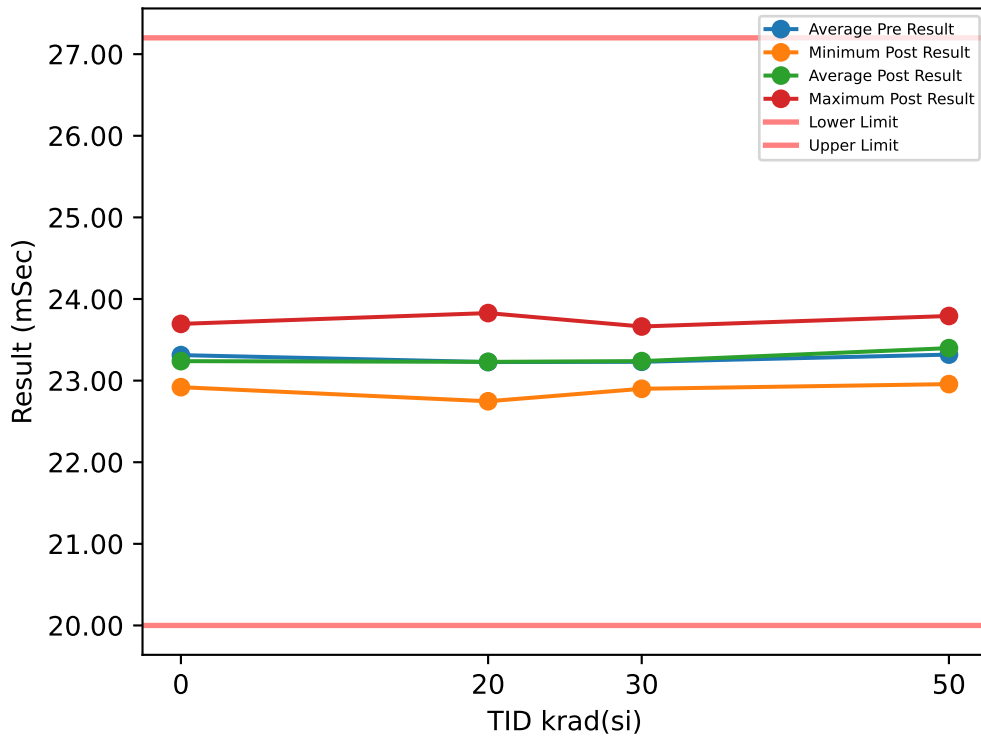| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 4.5934 | 4.4367 | -0.1567 |
| 2 | 20 | Bias | 4.5125 | 4.5345 | 0.022 |
| 3 | 20 | Bias | 4.4715 | 4.5387 | 0.0672 |
| 4 | 20 | Bias | 4.5067 | 4.4664 | -0.0403 |
| 5 | 20 | Bias | 4.4548 | 4.4208 | -0.034 |
| 6 | 20 | Unbiased | 4.5478 | 4.5219 | -0.0259 |
| 7 | 20 | Unbiased | 4.2944 | 4.4308 | 0.1364 |
| 8 | 20 | Unbiased | 4.4887 | 4.7256 | 0.2369 |
| 9 | 20 | Unbiased | 4.4979 | 4.3152 | -0.1827 |
| 10 | 20 | Unbiased | 4.1084 | 4.1899 | 0.0815 |
| 11 | 30 | Bias | 4.5957 | 4.2221 | -0.3736 |
| 12 | 30 | Bias | 4.5477 | 4.7263 | 0.1786 |
| 13 | 30 | Bias | 4.3766 | 4.3255 | -0.0511 |
| 14 | 30 | Bias | 4.3275 | 4.3576 | 0.0301 |
| 15 | 30 | Bias | 4.472 | 4.4403 | -0.0317 |
| 16 | 30 | Unbiased | 4.1998 | 4.5548 | 0.355 |
| 17 | 30 | Unbiased | 4.2807 | 4.6062 | 0.3255 |
| 18 | 30 | Unbiased | 4.4756 | 4.4159 | -0.0597 |
| 19 | 30 | Unbiased | 4.2831 | 4.3662 | 0.0831 |
| 20 | 30 | Unbiased | 4.6883 | 4.49 | -0.1983 |
| 21 | 50 | Bias | 4.3943 | 4.4494 | 0.0551 |
| 22 | 50 | Bias | 4.3311 | 4.3552 | 0.0241 |
| 23 | 50 | Bias | 4.3046 | 4.6473 | 0.3427 |
| 24 | 50 | Bias | 4.4103 | 4.3981 | -0.0122 |
| 25 | 50 | Bias | 4.3706 | 4.3974 | 0.0268 |
| 26 | 50 | Unbiased | 4.2464 | 4.6923 | 0.4459 |
| 27 | 50 | Unbiased | 4.3096 | 4.6221 | 0.3125 |
| 28 | 50 | Unbiased | 4.2998 | 4.3416 | 0.0418 |
| 29 | 50 | Unbiased | 4.3264 | 4.3026 | -0.0238 |
| 30 | 50 | Unbiased | 4.299 | 4.0832 | -0.2158 |
| 31 | 0 | Correlation | 4.5326 | 4.2849 | -0.2477 |
| 32 | 0 | Correlation | 4.3995 | 4.4428 | 0.0433 |
| 33 | 0 | Correlation | 4.3697 | 4.4828 | 0.1131 |
| 34 | 0 | Correlation | 4.4899 | 4.418 | -0.0719 |

## Test Statistics (uSec)
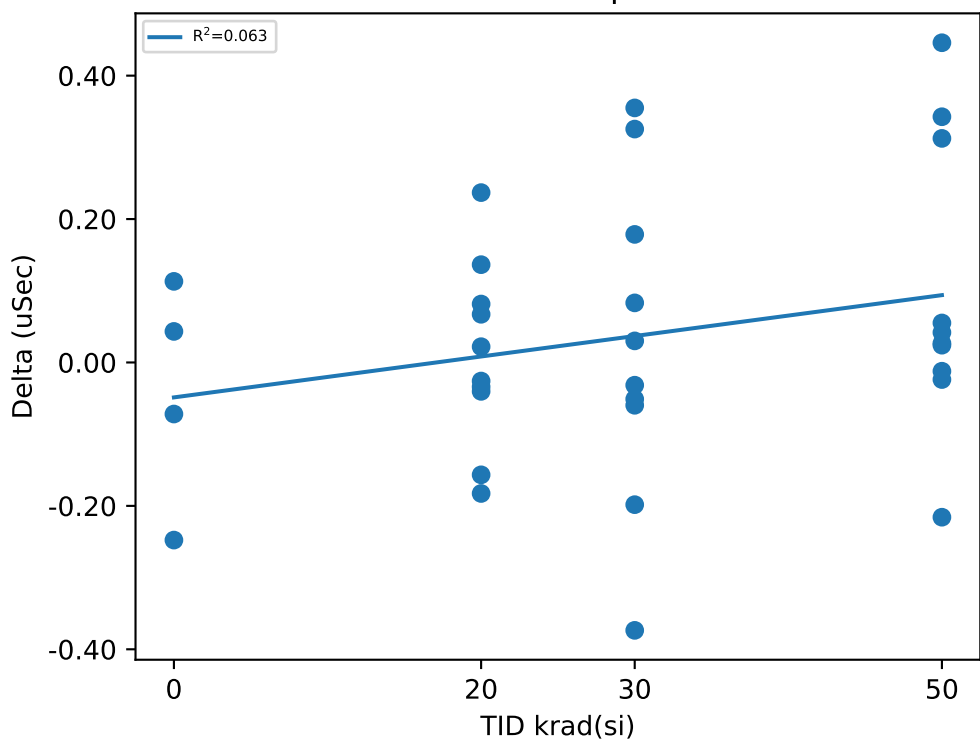
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.3697 | 4.4479 | 4.5326 | 0.076149 | 4.2849 | 4.4071 | 4.4828 | 0.085745 | -0.2477 | -0.0408 | 0.1131 | 0.15762 |
| 20 | 4.1084 | 4.4476 | 4.5934 | 0.14235 | 4.1899 | 4.4581 | 4.7256 | 0.14259 | -0.1827 | 0.01044 | 0.2369 | 0.12766 |
| 30 | 4.1998 | 4.4247 | 4.6883 | 0.15699 | 4.2221 | 4.4505 | 4.7263 | 0.14817 | -0.3736 | 0.02579 | 0.355 | 0.22388 |
| 50 | 4.2464 | 4.3292 | 4.4103 | 0.049623 | 4.0832 | 4.4289 | 4.6923 | 0.18417 | -0.2158 | 0.09971 | 0.4459 | 0.20218 |
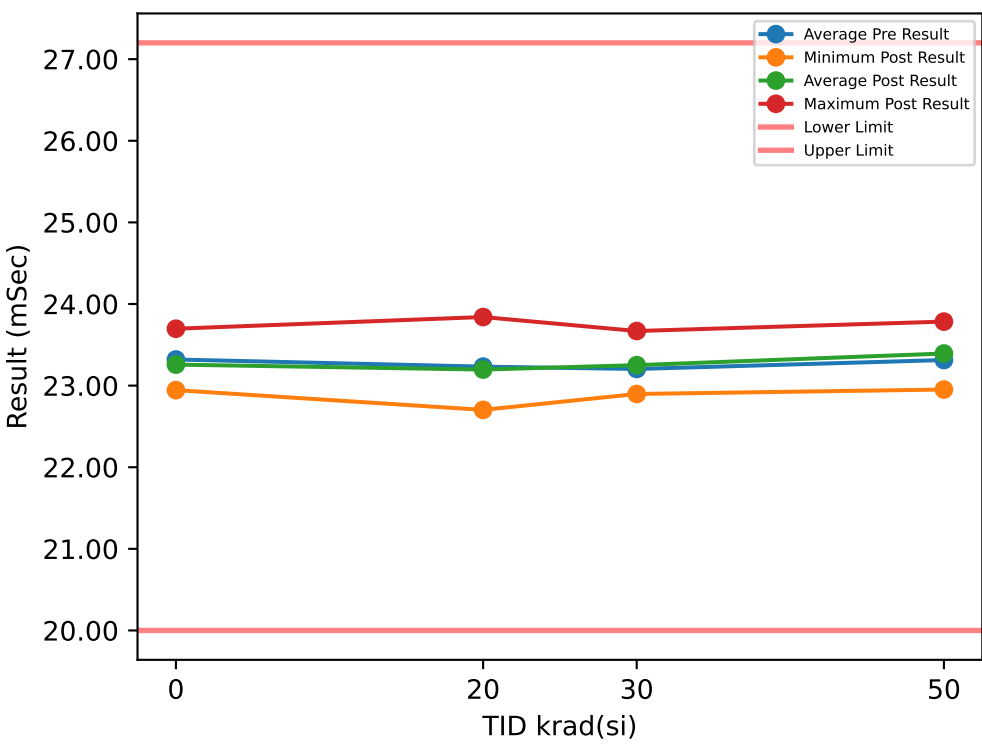
# Device Test: 17.110 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/SEQ_DONE/1.6/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

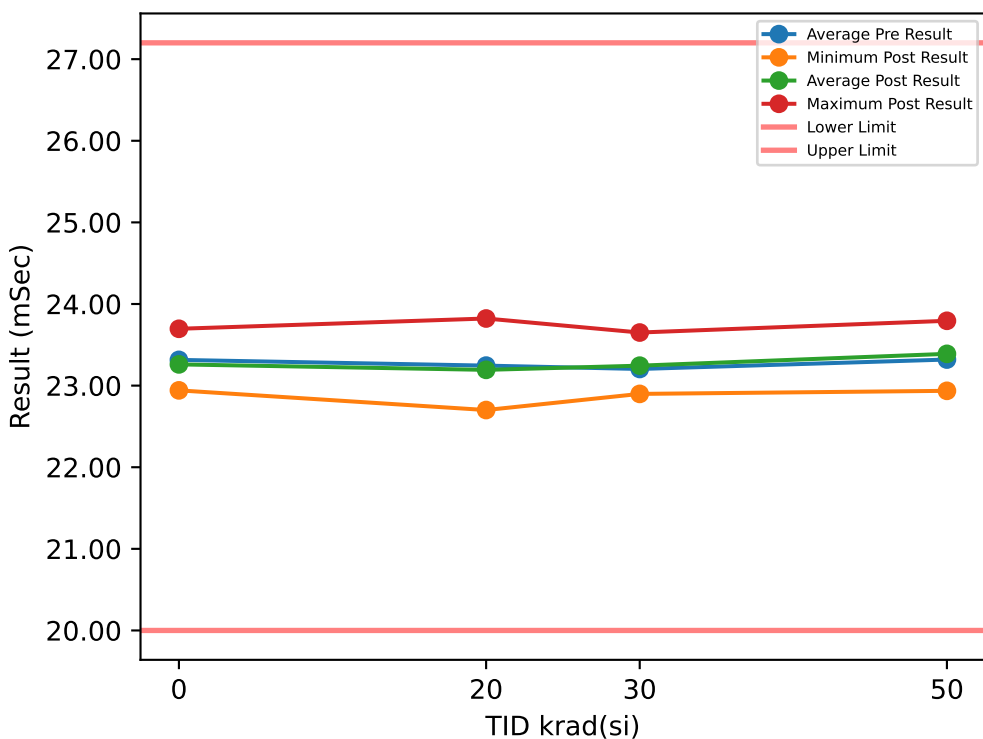| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.926 | 22.886 | -0.0402 |
| 2 | 20 | Bias | 23.612 | 23.533 | -0.0798 |
| 3 | 20 | Bias | 22.628 | 22.703 | 0.0743 |
| 4 | 20 | Bias | 23.814 | 23.84 | 0.0262 |
| 5 | 20 | Bias | 23.518 | 23.528 | 0.0096 |
| 6 | 20 | Unbiased | 22.945 | 22.762 | -0.1829 |
| 7 | 20 | Unbiased | 23.24 | 23.207 | -0.0326 |
| 8 | 20 | Unbiased | 23.127 | 23.008 | -0.1194 |
| 9 | 20 | Unbiased | 23.736 | 23.691 | -0.0451 |
| 10 | 20 | Unbiased | 22.778 | 22.808 | 0.0302 |
| 11 | 30 | Bias | 23.072 | 23.195 | 0.1236 |
| 12 | 30 | Bias | 23.151 | 23.219 | 0.0682 |
| 13 | 30 | Bias | 23.304 | 23.204 | -0.0997 |
| 14 | 30 | Bias | 22.781 | 23.334 | 0.5528 |
| 15 | 30 | Bias | 23.301 | 22.898 | -0.4039 |
| 16 | 30 | Unbiased | 23.411 | 23.292 | -0.1182 |
| 17 | 30 | Unbiased | 23.539 | 23.449 | -0.0901 |
| 18 | 30 | Unbiased | 23.1 | 23.669 | 0.5691 |
| 19 | 30 | Unbiased | 23.165 | 23.158 | -0.0069 |
| 20 | 30 | Unbiased | 23.216 | 23.09 | -0.1263 |
| 21 | 50 | Bias | 22.841 | 23.243 | 0.4023 |
| 22 | 50 | Bias | 22.926 | 22.952 | 0.0256 |
| 23 | 50 | Bias | 23.747 | 23.049 | -0.6983 |
| 24 | 50 | Bias | 23.048 | 23.749 | 0.7015 |
| 25 | 50 | Bias | 23.396 | 23.514 | 0.1174 |
| 26 | 50 | Unbiased | 23.589 | 23.72 | 0.1308 |
| 27 | 50 | Unbiased | 23.15 | 23.014 | -0.1354 |
| 28 | 50 | Unbiased | 23.546 | 23.452 | -0.0941 |
| 29 | 50 | Unbiased | 23.666 | 23.784 | 0.1178 |
| 30 | 50 | Unbiased | 23.224 | 23.456 | 0.2314 |
| 31 | 0 | Correlation | 23.202 | 23.179 | -0.0226 |
| 32 | 0 | Correlation | 22.952 | 22.945 | -0.0071 |
| 33 | 0 | Correlation | 23.703 | 23.697 | -0.0064 |
| 34 | 0 | Correlation | 23.423 | 23.209 | -0.2134 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.952 | 23.32 | 23.703 | 0.32005 | 22.945 | 23.258 | 23.697 | 0.31603 | -0.2134 | -0.062375 | -0.0064 | 0.10096 |
| 20 | 22.628 | 23.233 | 23.814 | 0.41858 | 22.703 | 23.197 | 23.84 | 0.42125 | -0.1829 | -0.03597 | 0.0743 | 0.076784 |
| 30 | 22.781 | 23.204 | 23.539 | 0.20712 | 22.898 | 23.251 | 23.669 | 0.20774 | -0.4039 | 0.04686 | 0.5691 | 0.30525 |
| 50 | 22.841 | 23.313 | 23.747 | 0.32118 | 22.952 | 23.393 | 23.784 | 0.31401 | -0.6983 | 0.0799 | 0.7015 | 0.36574 |

# Device Test: 17.111 DLY_TMR_10KOHM(_DELAY|STEP_UP/EN1/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2718 | 0.2745 | 0.0027 |
| 2 | 20 | Bias | 0.2722 | 0.2721 | -0.0001 |
| 3 | 20 | Bias | 0.2693 | 0.2687 | -0.0006 |
| 4 | 20 | Bias | 0.2718 | 0.2715 | -0.0003 |
| 5 | 20 | Bias | 0.2685 | 0.2685 | 0 |
| 6 | 20 | Unbiased | 0.2621 | 0.2603 | -0.0018 |
| 7 | 20 | Unbiased | 0.2684 | 0.2703 | 0.0019 |
| 8 | 20 | Unbiased | 0.2697 | 0.2706 | 0.0009 |
| 9 | 20 | Unbiased | 0.2698 | 0.2709 | 0.0011 |
| 10 | 20 | Unbiased | 0.2687 | 0.2683 | -0.0004 |
| 11 | 30 | Bias | 0.2633 | 0.2696 | 0.0063 |
| 12 | 30 | Bias | 0.2682 | 0.2634 | -0.0048 |
| 13 | 30 | Bias | 0.2703 | 0.2689 | -0.0014 |
| 14 | 30 | Bias | 0.2703 | 0.2699 | -0.0004 |
| 15 | 30 | Bias | 0.2719 | 0.2707 | -0.0012 |
| 16 | 30 | Unbiased | 0.2675 | 0.2707 | 0.0032 |
| 17 | 30 | Unbiased | 0.2694 | 0.2679 | -0.0015 |
| 18 | 30 | Unbiased | 0.2704 | 0.2705 | 0.0001 |
| 19 | 30 | Unbiased | 0.2628 | 0.2713 | 0.0085 |
| 20 | 30 | Unbiased | 0.2692 | 0.2626 | -0.0066 |
| 21 | 50 | Bias | 0.2623 | 0.272 | 0.0097 |
| 22 | 50 | Bias | 0.2608 | 0.2647 | 0.0039 |
| 23 | 50 | Bias | 0.2712 | 0.2625 | -0.0087 |
| 24 | 50 | Bias | 0.2698 | 0.2697 | -0.0001 |
| 25 | 50 | Bias | 0.2796 | 0.2781 | -0.0015 |
| 26 | 50 | Unbiased | 0.2721 | 0.2738 | 0.0017 |
| 27 | 50 | Unbiased | 0.2683 | 0.2686 | 0.0003 |
| 28 | 50 | Unbiased | 0.2704 | 0.2677 | -0.0027 |
| 29 | 50 | Unbiased | 0.2713 | 0.2712 | -0.0001 |
| 30 | 50 | Unbiased | 0.2714 | 0.2703 | -0.0011 |
| 31 | 0 | Correlation | 0.2704 | 0.2696 | -0.0008 |
| 32 | 0 | Correlation | 0.259 | 0.2595 | 0.0005 |
| 33 | 0 | Correlation | 0.2778 | 0.2755 | -0.0023 |
| 34 | 0 | Correlation | 0.2685 | 0.2693 | 0.0008 |

## Test Statistics (mSec)
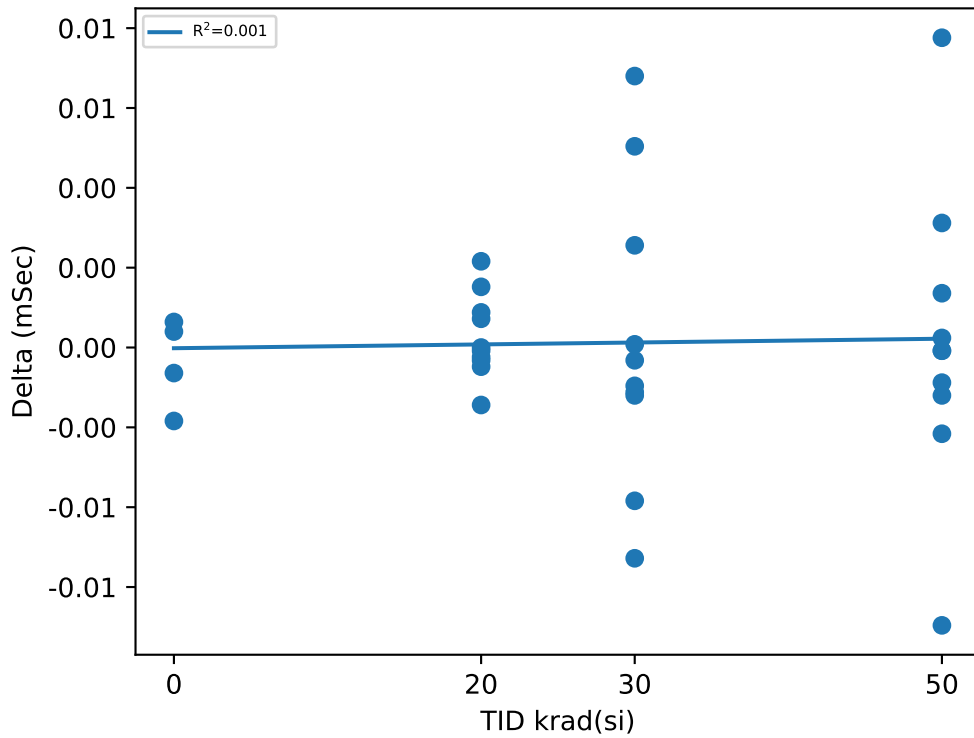
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.259 | 0.26892 | 0.2778 | 0.0077379 | 0.2595 | 0.26848 | 0.2755 | 0.0066294 | -0.0023 | -0.00045 | 0.0008 | 0.0014154 |
| 20 | 0.2621 | 0.26923 | 0.2722 | 0.0028852 | 0.2603 | 0.26957 | 0.2745 | 0.00376 | -0.0018 | 0.00034 | 0.0027 | 0.0013176 |
| 30 | 0.2628 | 0.26833 | 0.2719 | 0.0030419 | 0.2626 | 0.26855 | 0.2713 | 0.0030913 | -0.0066 | 0.00022 | 0.0085 | 0.0046442 |
| 50 | 0.2608 | 0.26972 | 0.2796 | 0.0052482 | 0.2625 | 0.26986 | 0.2781 | 0.0044355 | -0.0087 | 0.00014 | 0.0097 | 0.0046969 |

# Device Test: 17.112 DLY_TMR_10KOHM(_DELAY|STEP_UP/EN2/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2729 | 0.272 | -0.0009 |
| 2 | 20 | Bias | 0.273 | 0.2726 | -0.0004 |
| 3 | 20 | Bias | 0.2698 | 0.2688 | -0.001 |
| 4 | 20 | Bias | 0.2703 | 0.2708 | 0.0005 |
| 5 | 20 | Bias | 0.2686 | 0.2685 | -0.0001 |
| 6 | 20 | Unbiased | 0.2618 | 0.2616 | -0.0002 |
| 7 | 20 | Unbiased | 0.2687 | 0.2687 | 0 |
| 8 | 20 | Unbiased | 0.2705 | 0.271 | 0.0005 |
| 9 | 20 | Unbiased | 0.2703 | 0.2707 | 0.0004 |
| 10 | 20 | Unbiased | 0.2695 | 0.2664 | -0.0031 |
| 11 | 30 | Bias | 0.2625 | 0.269 | 0.0065 |
| 12 | 30 | Bias | 0.2697 | 0.2635 | -0.0062 |
| 13 | 30 | Bias | 0.2711 | 0.2689 | -0.0022 |
| 14 | 30 | Bias | 0.2692 | 0.2703 | 0.0011 |
| 15 | 30 | Bias | 0.2708 | 0.2697 | -0.0011 |
| 16 | 30 | Unbiased | 0.2679 | 0.2707 | 0.0028 |
| 17 | 30 | Unbiased | 0.2702 | 0.2683 | -0.0019 |
| 18 | 30 | Unbiased | 0.2711 | 0.2699 | -0.0012 |
| 19 | 30 | Unbiased | 0.2633 | 0.2723 | 0.009 |
| 20 | 30 | Unbiased | 0.2705 | 0.2625 | -0.008 |
| 21 | 50 | Bias | 0.2642 | 0.2691 | 0.0049 |
| 22 | 50 | Bias | 0.2608 | 0.2625 | 0.0017 |
| 23 | 50 | Bias | 0.2719 | 0.2632 | -0.0087 |
| 24 | 50 | Bias | 0.2683 | 0.2722 | 0.0039 |
| 25 | 50 | Bias | 0.2768 | 0.2774 | 0.0006 |
| 26 | 50 | Unbiased | 0.2718 | 0.2731 | 0.0013 |
| 27 | 50 | Unbiased | 0.268 | 0.2707 | 0.0027 |
| 28 | 50 | Unbiased | 0.2698 | 0.2682 | -0.0016 |
| 29 | 50 | Unbiased | 0.2726 | 0.2716 | -0.001 |
| 30 | 50 | Unbiased | 0.2693 | 0.2717 | 0.0024 |
| 31 | 0 | Correlation | 0.2702 | 0.2695 | -0.0007 |
| 32 | 0 | Correlation | 0.2602 | 0.2596 | -0.0006 |
| 33 | 0 | Correlation | 0.278 | 0.2776 | -0.0004 |
| 34 | 0 | Correlation | 0.2682 | 0.2691 | 0.0009 |
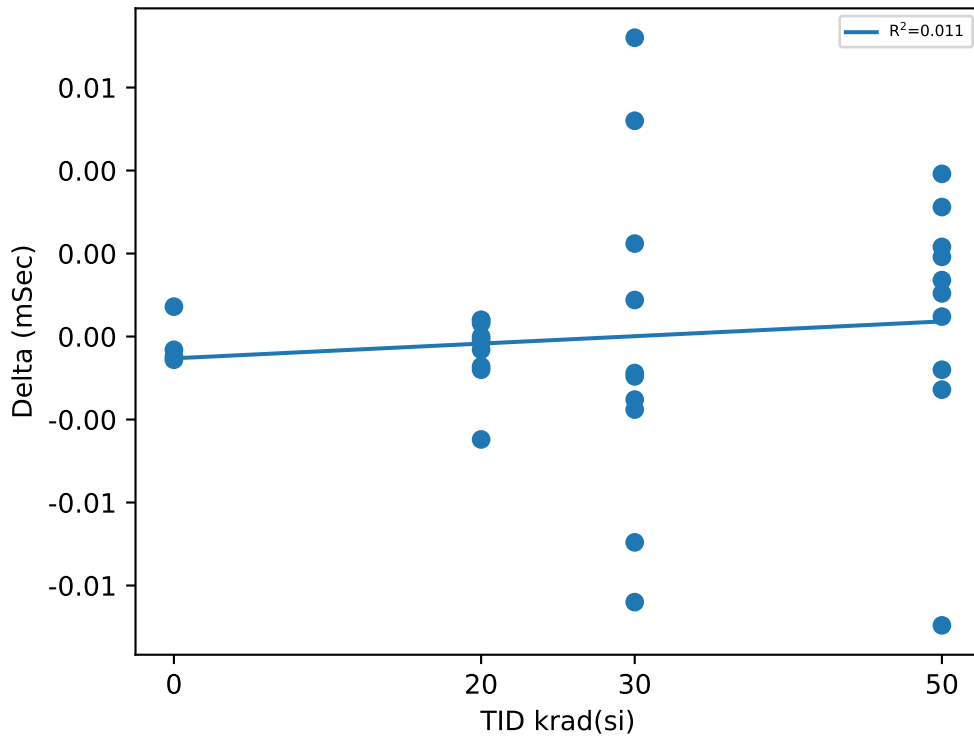
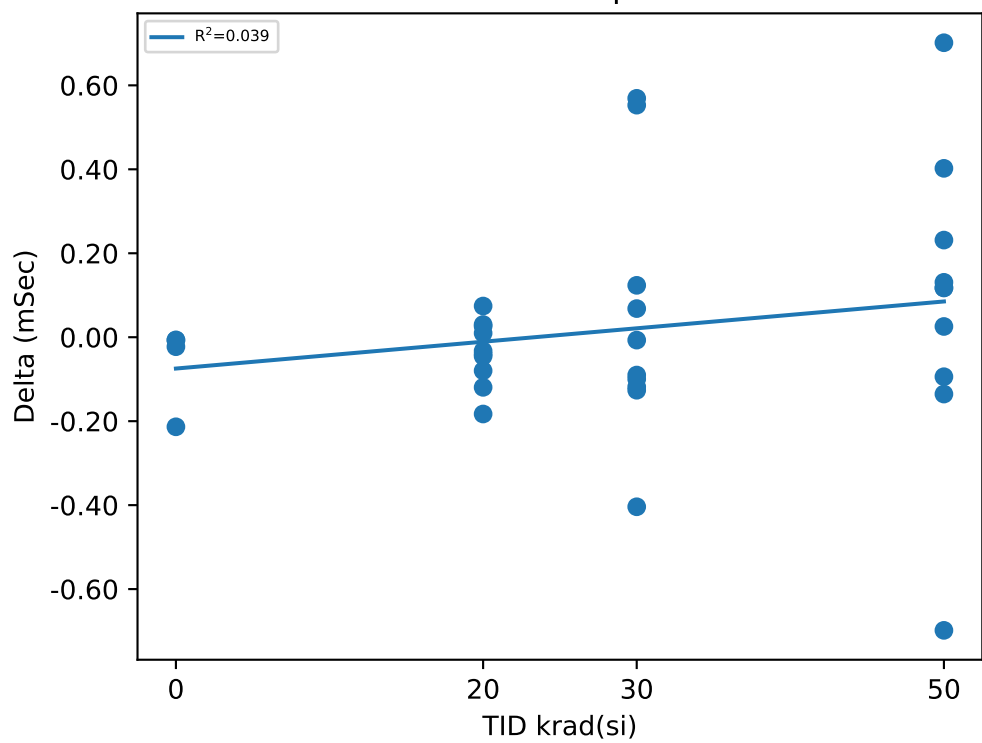## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2602 | 0.26915 | 0.278 | 0.0073128 | 0.2596 | 0.26895 | 0.2776 | 0.0073614 | -0.0007 | -0.0002 | 0.0009 | 0.00074386 |
| 20 | 0.2618 | 0.26954 | 0.273 | 0.0031074 | 0.2616 | 0.26911 | 0.2726 | 0.0032295 | -0.0031 | -0.00043 | 0.0005 | 0.0010771 |
| 30 | 0.2625 | 0.26863 | 0.2711 | 0.0031774 | 0.2625 | 0.26851 | 0.2723 | 0.0031157 | -0.008 | -0.00012 | 0.009 | 0.0052249 |
| 50 | 0.2608 | 0.26935 | 0.2768 | 0.0044886 | 0.2625 | 0.26997 | 0.2774 | 0.004493 | -0.0087 | 0.00062 | 0.0049 | 0.0038386 |

# Device Test: 17.113 DLY_TMR_10KOHM(_DELAY|STEP_UP/EN3/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

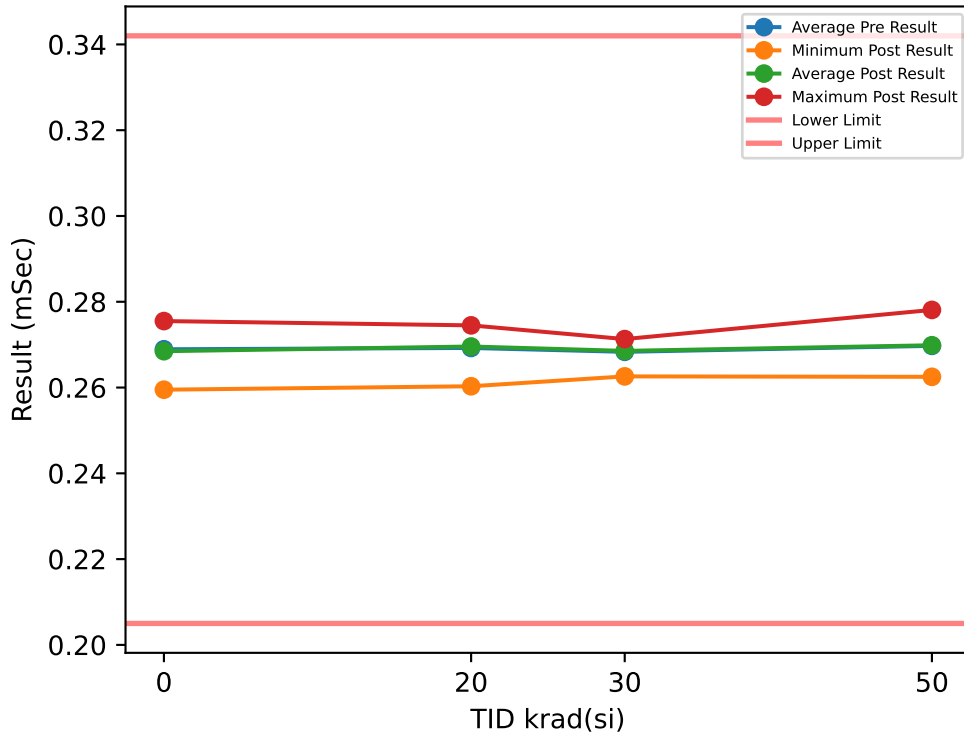| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.273 | 0.2719 | -0.0011 |
| 2 | 20 | Bias | 0.2735 | 0.2727 | -0.0008 |
| 3 | 20 | Bias | 0.269 | 0.2693 | 0.0003 |
| 4 | 20 | Bias | 0.2705 | 0.271 | 0.0005 |
| 5 | 20 | Bias | 0.2675 | 0.2681 | 0.0006 |
| 6 | 20 | Unbiased | 0.2615 | 0.2613 | -0.0002 |
| 7 | 20 | Unbiased | 0.2707 | 0.2689 | -0.0018 |
| 8 | 20 | Unbiased | 0.2699 | 0.2719 | 0.002 |
| 9 | 20 | Unbiased | 0.2701 | 0.2708 | 0.0007 |
| 10 | 20 | Unbiased | 0.268 | 0.2684 | 0.0004 |
| 11 | 30 | Bias | 0.2621 | 0.268 | 0.0059 |
| 12 | 30 | Bias | 0.27 | 0.2621 | -0.0079 |
| 13 | 30 | Bias | 0.2704 | 0.2687 | -0.0017 |
| 14 | 30 | Bias | 0.2698 | 0.2714 | 0.0016 |
| 15 | 30 | Bias | 0.2704 | 0.2721 | 0.0017 |
| 16 | 30 | Unbiased | 0.269 | 0.2714 | 0.0024 |
| 17 | 30 | Unbiased | 0.269 | 0.2683 | -0.0007 |
| 18 | 30 | Unbiased | 0.2712 | 0.2711 | -0.0001 |
| 19 | 30 | Unbiased | 0.2626 | 0.2704 | 0.0078 |
| 20 | 30 | Unbiased | 0.2707 | 0.261 | -0.0097 |
| 21 | 50 | Bias | 0.2614 | 0.2694 | 0.008 |
| 22 | 50 | Bias | 0.2622 | 0.2647 | 0.0025 |
| 23 | 50 | Bias | 0.2718 | 0.262 | -0.0098 |
| 24 | 50 | Bias | 0.2685 | 0.2702 | 0.0017 |
| 25 | 50 | Bias | 0.2789 | 0.2785 | -0.0004 |
| 26 | 50 | Unbiased | 0.2724 | 0.2725 | 0.0001 |
| 27 | 50 | Unbiased | 0.2704 | 0.2685 | -0.0019 |
| 28 | 50 | Unbiased | 0.2717 | 0.2708 | -0.0009 |
| 29 | 50 | Unbiased | 0.272 | 0.2717 | -0.0003 |
| 30 | 50 | Unbiased | 0.27 | 0.2732 | 0.0032 |
| 31 | 0 | Correlation | 0.2698 | 0.2689 | -0.0009 |
| 32 | 0 | Correlation | 0.261 | 0.2612 | 0.0002 |
| 33 | 0 | Correlation | 0.2757 | 0.2783 | 0.0026 |
| 34 | 0 | Correlation | 0.2686 | 0.2701 | 0.0015 |

## Test Statistics (mSec)
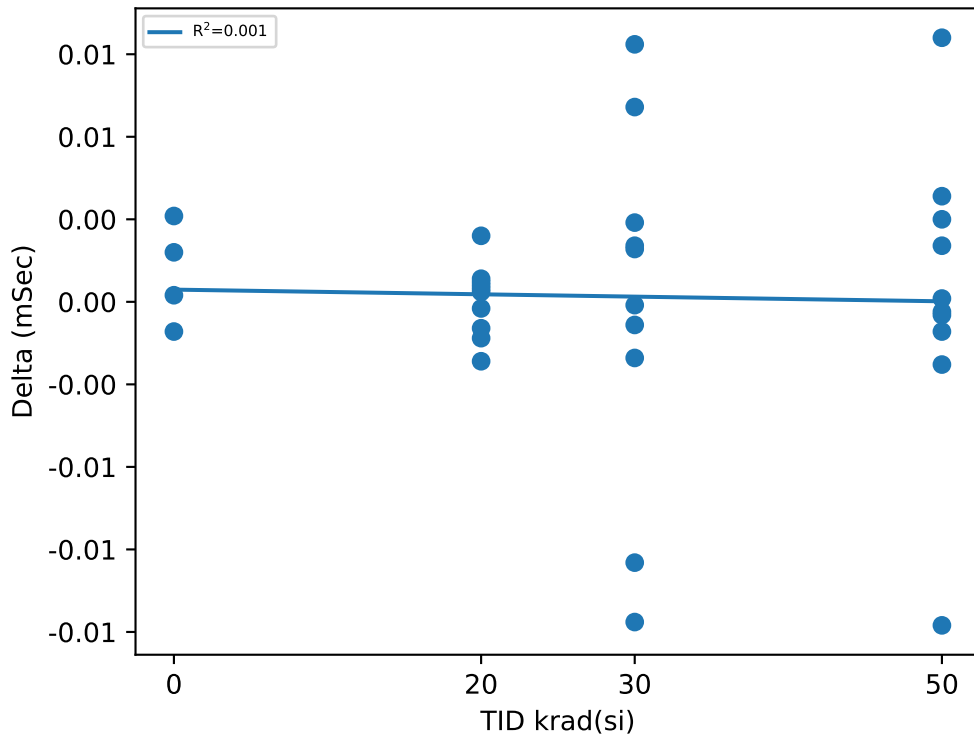
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.261 | 0.26877 | 0.2757 | 0.0060412 | 0.2612 | 0.26963 | 0.2783 | 0.0069997 | -0.0009 | 0.00085 | 0.0026 | 0.0015242 |
| 20 | 0.2615 | 0.26937 | 0.2735 | 0.0033589 | 0.2613 | 0.26943 | 0.2727 | 0.0032738 | -0.0018 | 6e-05 | 0.002 | 0.0010772 |
| 30 | 0.2621 | 0.26852 | 0.2712 | 0.0033259 | 0.261 | 0.26845 | 0.2721 | 0.003911 | -0.0097 | -7e-05 | 0.0078 | 0.0054437 |
| 50 | 0.2614 | 0.26993 | 0.2789 | 0.00508 | 0.262 | 0.27015 | 0.2785 | 0.0045556 | -0.0098 | 0.00022 | 0.008 | 0.0045168 |

# Device Test: 17.114 DLY_TMR_10KOHM(_DELAY|STEP_UP/EN4/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

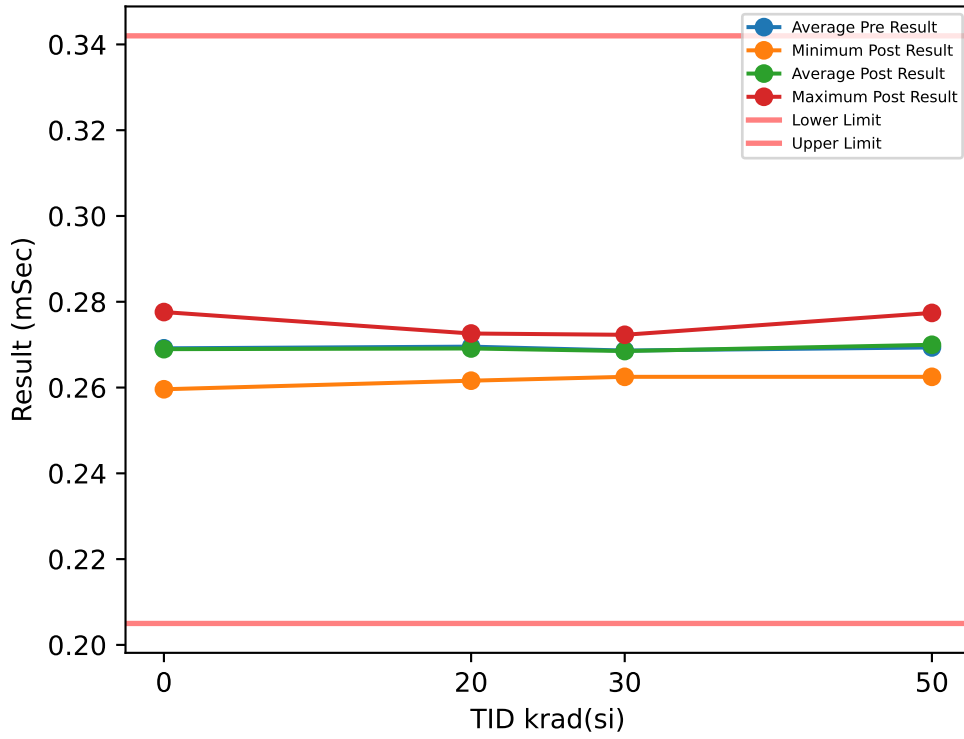| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2732 | 0.2749 | 0.0017 |
| 2 | 20 | Bias | 0.274 | 0.2717 | -0.0023 |
| 3 | 20 | Bias | 0.2692 | 0.2694 | 0.0002 |
| 4 | 20 | Bias | 0.2709 | 0.272 | 0.0011 |
| 5 | 20 | Bias | 0.2704 | 0.2696 | -0.0008 |
| 6 | 20 | Unbiased | 0.2622 | 0.2614 | -0.0008 |
| 7 | 20 | Unbiased | 0.271 | 0.27 | -0.001 |
| 8 | 20 | Unbiased | 0.2702 | 0.2709 | 0.0007 |
| 9 | 20 | Unbiased | 0.2705 | 0.2712 | 0.0007 |
| 10 | 20 | Unbiased | 0.2674 | 0.2674 | 0 |
| 11 | 30 | Bias | 0.2634 | 0.2706 | 0.0072 |
| 12 | 30 | Bias | 0.2689 | 0.2624 | -0.0065 |
| 13 | 30 | Bias | 0.2707 | 0.2685 | -0.0022 |
| 14 | 30 | Bias | 0.272 | 0.2707 | -0.0013 |
| 15 | 30 | Bias | 0.2719 | 0.2708 | -0.0011 |
| 16 | 30 | Unbiased | 0.2704 | 0.2719 | 0.0015 |
| 17 | 30 | Unbiased | 0.2691 | 0.2683 | -0.0008 |
| 18 | 30 | Unbiased | 0.2703 | 0.2691 | -0.0012 |
| 19 | 30 | Unbiased | 0.2627 | 0.2705 | 0.0078 |
| 20 | 30 | Unbiased | 0.2714 | 0.2611 | -0.0103 |
| 21 | 50 | Bias | 0.2629 | 0.2696 | 0.0067 |
| 22 | 50 | Bias | 0.2611 | 0.2639 | 0.0028 |
| 23 | 50 | Bias | 0.2702 | 0.2623 | -0.0079 |
| 24 | 50 | Bias | 0.2695 | 0.2708 | 0.0013 |
| 25 | 50 | Bias | 0.2765 | 0.2788 | 0.0023 |
| 26 | 50 | Unbiased | 0.2721 | 0.2723 | 0.0002 |
| 27 | 50 | Unbiased | 0.2705 | 0.2703 | -0.0002 |
| 28 | 50 | Unbiased | 0.2695 | 0.2687 | -0.0008 |
| 29 | 50 | Unbiased | 0.2727 | 0.2736 | 0.0009 |
| 30 | 50 | Unbiased | 0.2701 | 0.2709 | 0.0008 |
| 31 | 0 | Correlation | 0.2705 | 0.2709 | 0.0004 |
| 32 | 0 | Correlation | 0.2615 | 0.2614 | -0.0001 |
| 33 | 0 | Correlation | 0.2762 | 0.2783 | 0.0021 |
| 34 | 0 | Correlation | 0.2687 | 0.2711 | 0.0024 |

## Test Statistics (mSec)
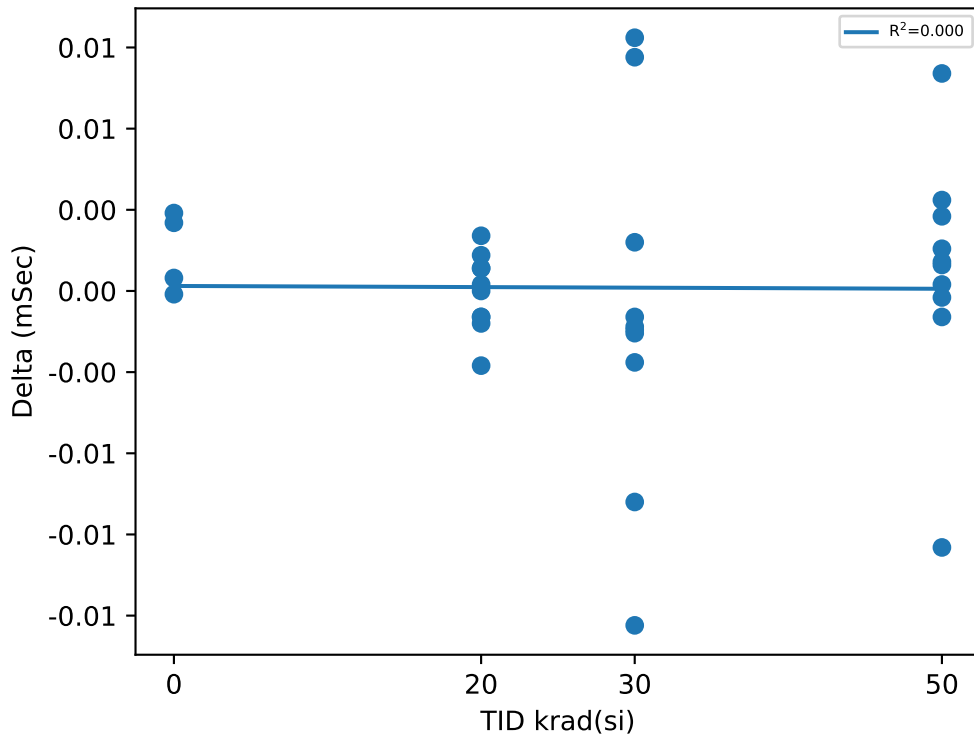
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2615 | 0.26922 | 0.2762 | 0.0060616 | 0.2614 | 0.27043 | 0.2783 | 0.0069318 | -0.0001 | 0.0012 | 0.0024 | 0.0012356 |
| 20 | 0.2622 | 0.2699 | 0.274 | 0.0032769 | 0.2614 | 0.26985 | 0.2749 | 0.0035616 | -0.0023 | -5e-05 | 0.0017 | 0.0011863 |
| 30 | 0.2627 | 0.26908 | 0.272 | 0.0033452 | 0.2611 | 0.26839 | 0.2719 | 0.003687 | -0.0103 | -0.00069 | 0.0078 | 0.0054603 |
| 50 | 0.2611 | 0.26951 | 0.2765 | 0.0044965 | 0.2623 | 0.27012 | 0.2788 | 0.0046599 | -0.0079 | 0.00061 | 0.0067 | 0.0036601 |
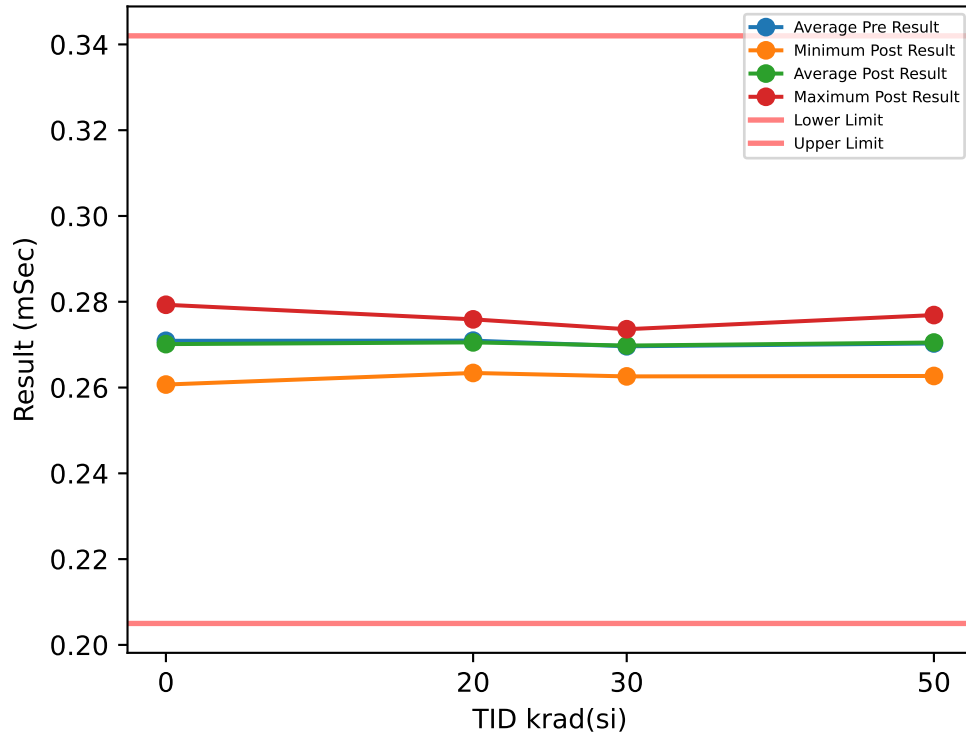
# Device Test: 17.115 DLY_TMR_10KOHM(_DELAY|STEP_UP/SEQ_DONE/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

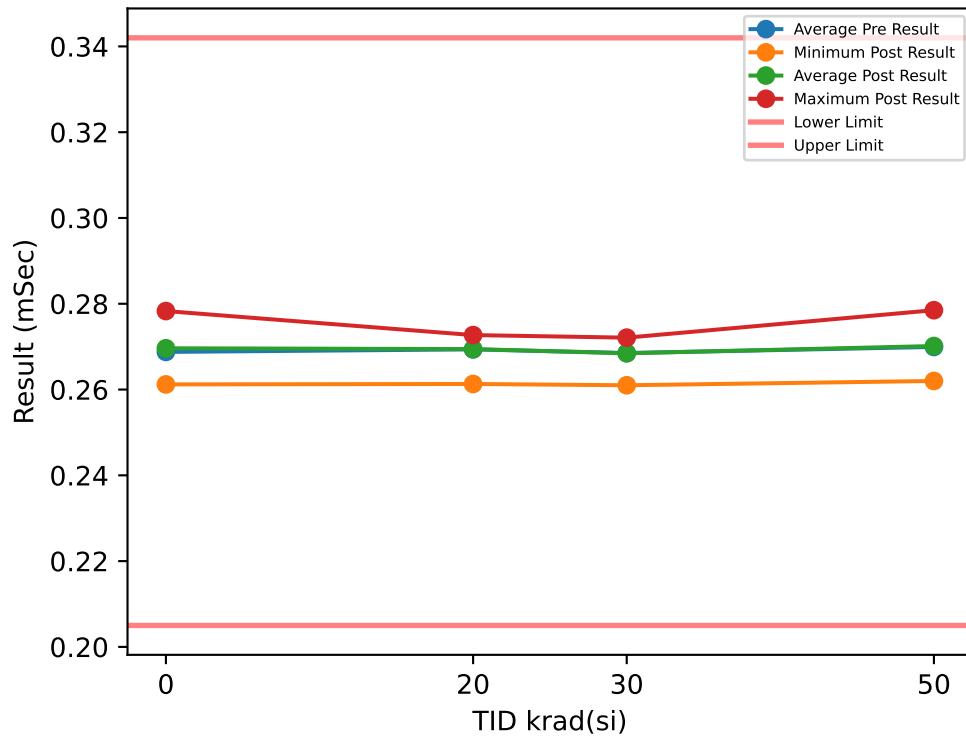| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2737 | 0.2759 | 0.0022 |
| 2 | 20 | Bias | 0.2761 | 0.2736 | -0.0025 |
| 3 | 20 | Bias | 0.2707 | 0.2697 | -0.001 |
| 4 | 20 | Bias | 0.2718 | 0.2709 | -0.0009 |
| 5 | 20 | Bias | 0.2691 | 0.2687 | -0.0004 |
| 6 | 20 | Unbiased | 0.2658 | 0.2634 | -0.0024 |
| 7 | 20 | Unbiased | 0.2708 | 0.2695 | -0.0013 |
| 8 | 20 | Unbiased | 0.2712 | 0.2729 | 0.0017 |
| 9 | 20 | Unbiased | 0.2708 | 0.2708 | 0 |
| 10 | 20 | Unbiased | 0.2694 | 0.2699 | 0.0005 |
| 11 | 30 | Bias | 0.2633 | 0.2716 | 0.0083 |
| 12 | 30 | Bias | 0.2706 | 0.2632 | -0.0074 |
| 13 | 30 | Bias | 0.2716 | 0.27 | -0.0016 |
| 14 | 30 | Bias | 0.2711 | 0.2714 | 0.0003 |
| 15 | 30 | Bias | 0.2719 | 0.2707 | -0.0012 |
| 16 | 30 | Unbiased | 0.2705 | 0.2726 | 0.0021 |
| 17 | 30 | Unbiased | 0.2713 | 0.2705 | -0.0008 |
| 18 | 30 | Unbiased | 0.2713 | 0.2717 | 0.0004 |
| 19 | 30 | Unbiased | 0.2631 | 0.2736 | 0.0105 |
| 20 | 30 | Unbiased | 0.2715 | 0.2626 | -0.0089 |
| 21 | 50 | Bias | 0.2626 | 0.2722 | 0.0096 |
| 22 | 50 | Bias | 0.2629 | 0.2638 | 0.0009 |
| 23 | 50 | Bias | 0.2719 | 0.2627 | -0.0092 |
| 24 | 50 | Bias | 0.2693 | 0.2709 | 0.0016 |
| 25 | 50 | Bias | 0.2786 | 0.2769 | -0.0017 |
| 26 | 50 | Unbiased | 0.2732 | 0.2733 | 0.0001 |
| 27 | 50 | Unbiased | 0.2693 | 0.2691 | -0.0002 |
| 28 | 50 | Unbiased | 0.2704 | 0.2713 | 0.0009 |
| 29 | 50 | Unbiased | 0.2725 | 0.2733 | 0.0008 |
| 30 | 50 | Unbiased | 0.2721 | 0.2715 | -0.0006 |
| 31 | 0 | Correlation | 0.2722 | 0.2705 | -0.0017 |
| 32 | 0 | Correlation | 0.2618 | 0.2607 | -0.0011 |
| 33 | 0 | Correlation | 0.279 | 0.2793 | 0.0003 |
| 34 | 0 | Correlation | 0.2706 | 0.27 | -0.0006 |

## Test Statistics (mSec)
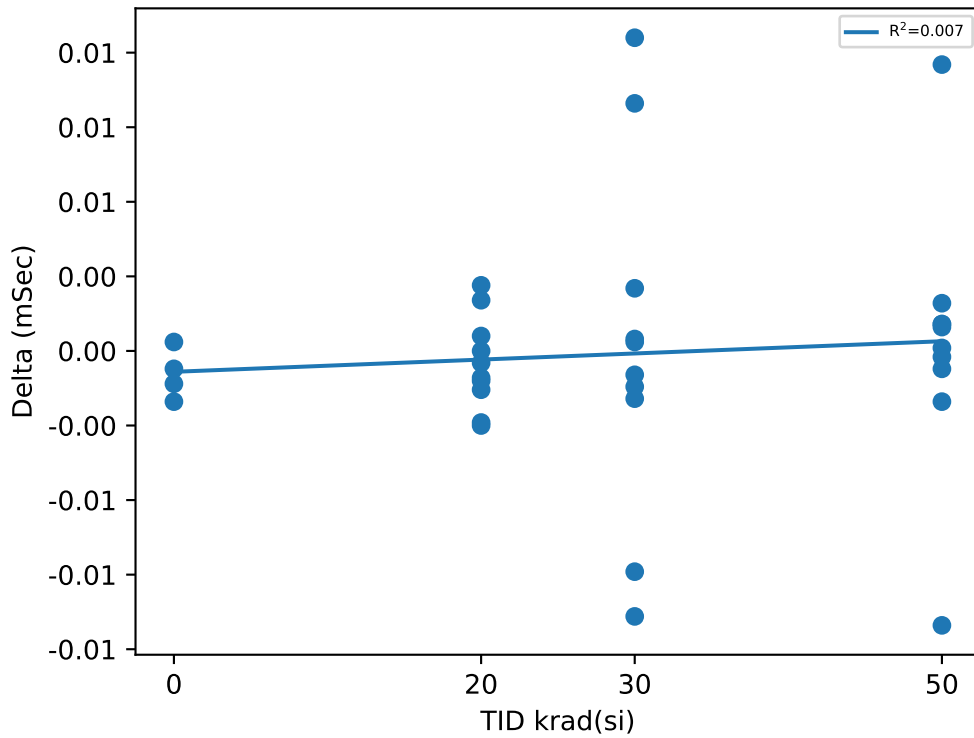
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2618 | 0.2709 | 0.279 | 0.0070758 | 0.2607 | 0.27013 | 0.2793 | 0.0075975 | -0.0017 | -0.000775 | 0.0003 | 0.00084607 |
| 20 | 0.2658 | 0.27094 | 0.2761 | 0.002735 | 0.2634 | 0.27053 | 0.2759 | 0.0033403 | -0.0025 | -0.00041 | 0.0022 | 0.0015624 |
| 30 | 0.2631 | 0.26962 | 0.2719 | 0.0034104 | 0.2626 | 0.26979 | 0.2736 | 0.0037776 | -0.0089 | 0.00017 | 0.0105 | 0.0059826 |
| 50 | 0.2626 | 0.27028 | 0.2786 | 0.0047609 | 0.2627 | 0.2705 | 0.2769 | 0.0043336 | -0.0092 | 0.00022 | 0.0096 | 0.0045269 |
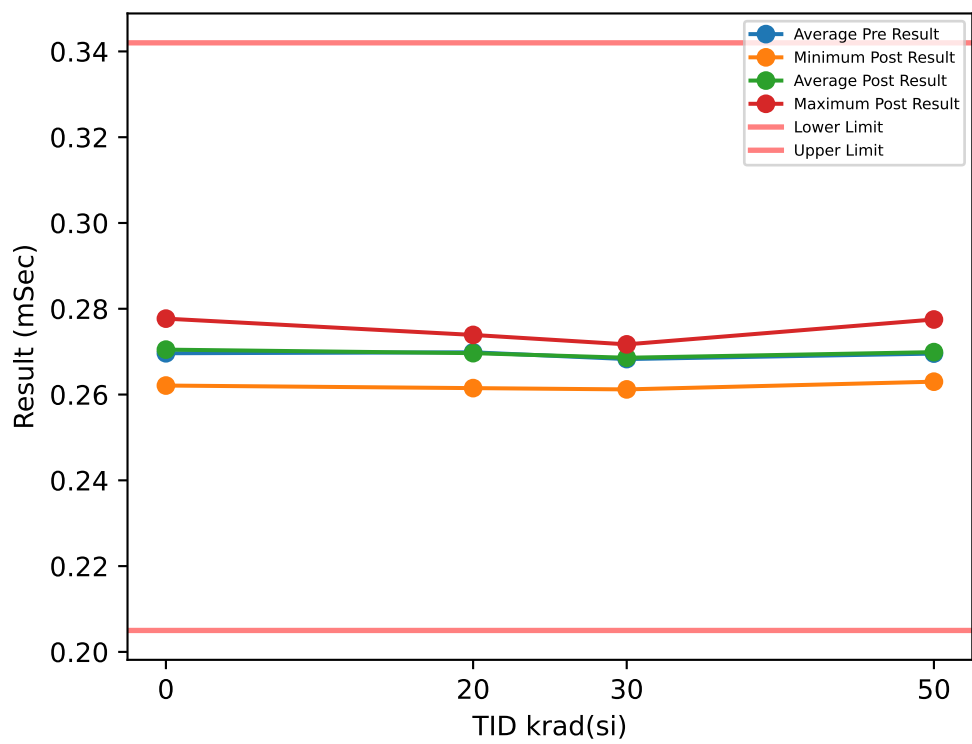
# Device Test: 17.116 DLY_TMR_10KOHM(_DELAY|STEP_UP/PWRGD/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

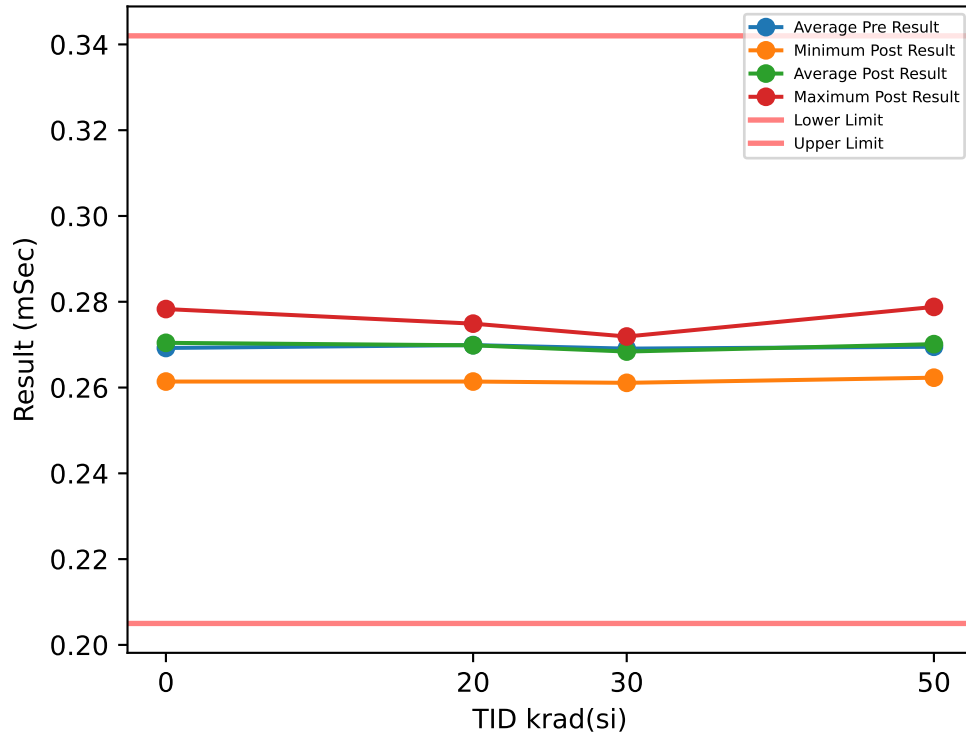| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2731 | 0.273 | -0.0001 |
| 2 | 20 | Bias | 0.2738 | 0.2739 | 0.0001 |
| 3 | 20 | Bias | 0.2692 | 0.2678 | -0.0014 |
| 4 | 20 | Bias | 0.2722 | 0.272 | -0.0002 |
| 5 | 20 | Bias | 0.2678 | 0.2694 | 0.0016 |
| 6 | 20 | Unbiased | 0.2619 | 0.2615 | -0.0004 |
| 7 | 20 | Unbiased | 0.2702 | 0.2694 | -0.0008 |
| 8 | 20 | Unbiased | 0.2707 | 0.2717 | 0.001 |
| 9 | 20 | Unbiased | 0.2707 | 0.2703 | -0.0004 |
| 10 | 20 | Unbiased | 0.2689 | 0.2675 | -0.0014 |
| 11 | 30 | Bias | 0.262 | 0.2696 | 0.0076 |
| 12 | 30 | Bias | 0.2677 | 0.263 | -0.0047 |
| 13 | 30 | Bias | 0.2695 | 0.2693 | -0.0002 |
| 14 | 30 | Bias | 0.2696 | 0.2704 | 0.0008 |
| 15 | 30 | Bias | 0.272 | 0.2698 | -0.0022 |
| 16 | 30 | Unbiased | 0.2678 | 0.2717 | 0.0039 |
| 17 | 30 | Unbiased | 0.2692 | 0.2699 | 0.0007 |
| 18 | 30 | Unbiased | 0.271 | 0.2699 | -0.0011 |
| 19 | 30 | Unbiased | 0.2632 | 0.271 | 0.0078 |
| 20 | 30 | Unbiased | 0.2707 | 0.2612 | -0.0095 |
| 21 | 50 | Bias | 0.2635 | 0.2705 | 0.007 |
| 22 | 50 | Bias | 0.2616 | 0.2639 | 0.0023 |
| 23 | 50 | Bias | 0.2728 | 0.263 | -0.0098 |
| 24 | 50 | Bias | 0.2686 | 0.2712 | 0.0026 |
| 25 | 50 | Bias | 0.2773 | 0.2775 | 0.0002 |
| 26 | 50 | Unbiased | 0.2724 | 0.2738 | 0.0014 |
| 27 | 50 | Unbiased | 0.268 | 0.2682 | 0.0002 |
| 28 | 50 | Unbiased | 0.2692 | 0.2693 | 0.0001 |
| 29 | 50 | Unbiased | 0.272 | 0.2703 | -0.0017 |
| 30 | 50 | Unbiased | 0.2701 | 0.2712 | 0.0011 |
| 31 | 0 | Correlation | 0.2705 | 0.272 | 0.0015 |
| 32 | 0 | Correlation | 0.2616 | 0.2621 | 0.0005 |
| 33 | 0 | Correlation | 0.2781 | 0.2777 | -0.0004 |
| 34 | 0 | Correlation | 0.2683 | 0.2701 | 0.0018 |

## Test Statistics (mSec)
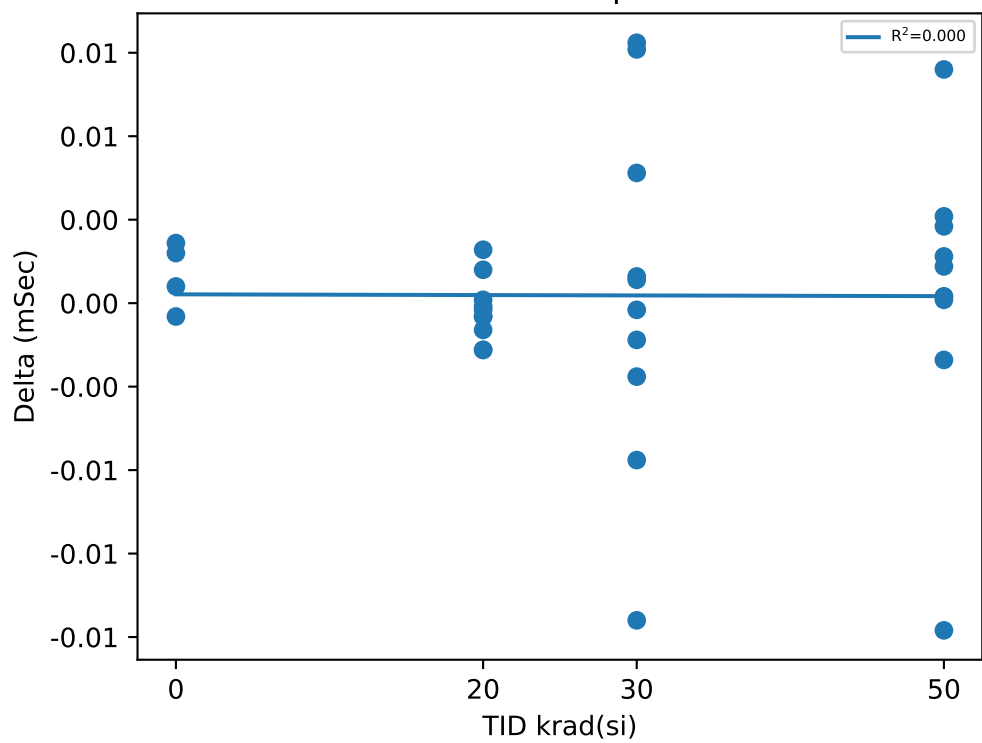
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2616 | 0.26963 | 0.2781 | 0.0068007 | 0.2621 | 0.27048 | 0.2777 | 0.00645 | -0.0004 | 0.00085 | 0.0018 | 0.0010017 |
| 20 | 0.2619 | 0.26985 | 0.2738 | 0.0033663 | 0.2615 | 0.26965 | 0.2739 | 0.0035594 | -0.0014 | -0.0002 | 0.0016 | 0.00094868 |
| 30 | 0.262 | 0.26827 | 0.272 | 0.0032826 | 0.2612 | 0.26858 | 0.2717 | 0.0035125 | -0.0095 | 0.00031 | 0.0078 | 0.0052958 |
| 50 | 0.2616 | 0.26955 | 0.2773 | 0.0045739 | 0.263 | 0.26989 | 0.2775 | 0.0042652 | -0.0098 | 0.00034 | 0.007 | 0.0042437 |
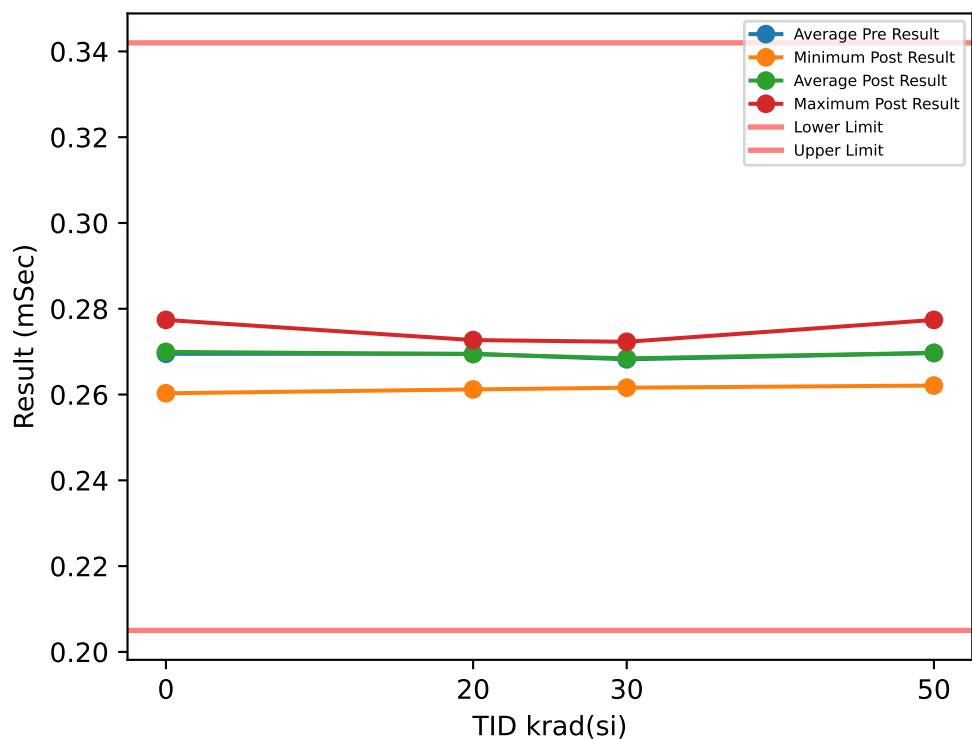
# Device Test: 17.117 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN1/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2744 | 0.2724 | -0.002 |
| 2 | 20 | Bias | 0.2744 | 0.2727 | -0.0017 |
| 3 | 20 | Bias | 0.2695 | 0.2703 | 0.0008 |
| 4 | 20 | Bias | 0.2705 | 0.2721 | 0.0016 |
| 5 | 20 | Bias | 0.2677 | 0.2677 | 0 |
| 6 | 20 | Unbiased | 0.2615 | 0.2612 | -0.0003 |
| 7 | 20 | Unbiased | 0.2695 | 0.2695 | 0 |
| 8 | 20 | Unbiased | 0.2699 | 0.271 | 0.0011 |
| 9 | 20 | Unbiased | 0.2698 | 0.2686 | -0.0012 |
| 10 | 20 | Unbiased | 0.2679 | 0.2688 | 0.0009 |
| 11 | 30 | Bias | 0.2627 | 0.2693 | 0.0066 |
| 12 | 30 | Bias | 0.2699 | 0.2639 | -0.006 |
| 13 | 30 | Bias | 0.2694 | 0.2682 | -0.0012 |
| 14 | 30 | Bias | 0.2695 | 0.2723 | 0.0028 |
| 15 | 30 | Bias | 0.2722 | 0.2701 | -0.0021 |
| 16 | 30 | Unbiased | 0.2685 | 0.2702 | 0.0017 |
| 17 | 30 | Unbiased | 0.2689 | 0.2684 | -0.0005 |
| 18 | 30 | Unbiased | 0.2703 | 0.2694 | -0.0009 |
| 19 | 30 | Unbiased | 0.2609 | 0.2709 | 0.01 |
| 20 | 30 | Unbiased | 0.2698 | 0.2616 | -0.0082 |
| 21 | 50 | Bias | 0.2632 | 0.2712 | 0.008 |
| 22 | 50 | Bias | 0.2618 | 0.2637 | 0.0019 |
| 23 | 50 | Bias | 0.2706 | 0.2621 | -0.0085 |
| 24 | 50 | Bias | 0.2681 | 0.2707 | 0.0026 |
| 25 | 50 | Bias | 0.2765 | 0.2774 | 0.0009 |
| 26 | 50 | Unbiased | 0.2718 | 0.2716 | -0.0002 |
| 27 | 50 | Unbiased | 0.2701 | 0.2683 | -0.0018 |
| 28 | 50 | Unbiased | 0.2707 | 0.268 | -0.0027 |
| 29 | 50 | Unbiased | 0.272 | 0.2723 | 0.0003 |
| 30 | 50 | Unbiased | 0.272 | 0.2719 | -0.0001 |
| 31 | 0 | Correlation | 0.2703 | 0.2712 | 0.0009 |
| 32 | 0 | Correlation | 0.2601 | 0.2603 | 0.0002 |
| 33 | 0 | Correlation | 0.2782 | 0.2774 | -0.0008 |
| 34 | 0 | Correlation | 0.2694 | 0.2709 | 0.0015 |

## Test Statistics (mSec)
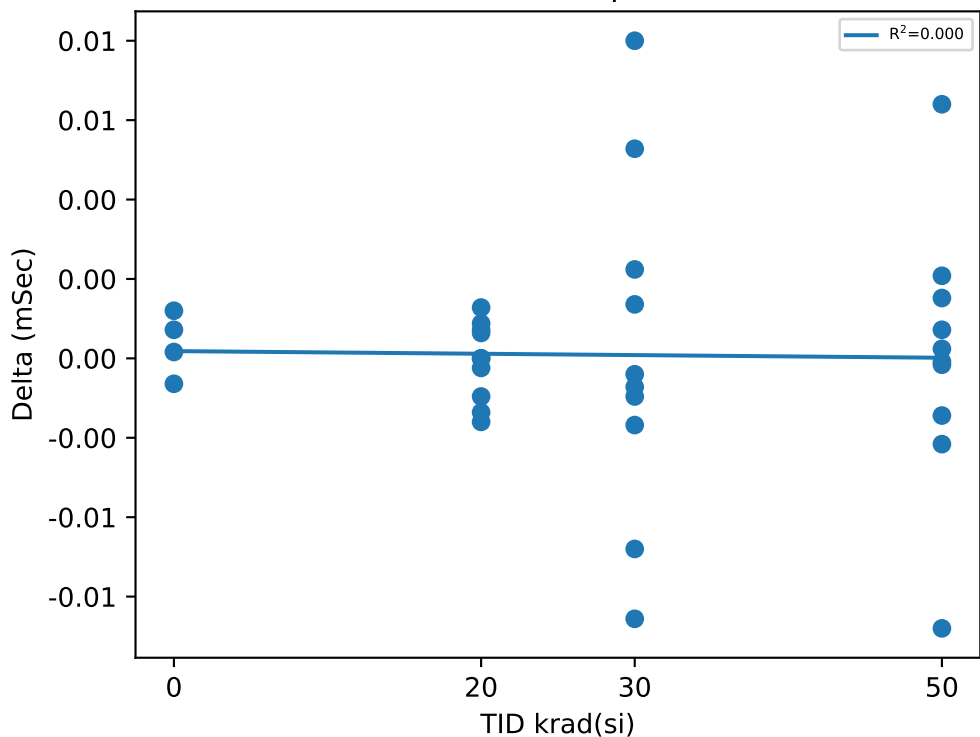
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2601 | 0.2695 | 0.2782 | 0.0074095 | 0.2603 | 0.26995 | 0.2774 | 0.0070967 | -0.0008 | 0.00045 | 0.0015 | 0.00098826 |
| 20 | 0.2615 | 0.26951 | 0.2744 | 0.0036373 | 0.2612 | 0.26943 | 0.2727 | 0.0033612 | -0.002 | -8e-05 | 0.0016 | 0.0012282 |
| 30 | 0.2609 | 0.26821 | 0.2722 | 0.0035451 | 0.2616 | 0.26843 | 0.2723 | 0.0032646 | -0.0082 | 0.00022 | 0.01 | 0.0054156 |
| 50 | 0.2618 | 0.26968 | 0.2765 | 0.0043514 | 0.2621 | 0.26972 | 0.2774 | 0.0044266 | -0.0085 | 4e-05 | 0.008 | 0.004191 |
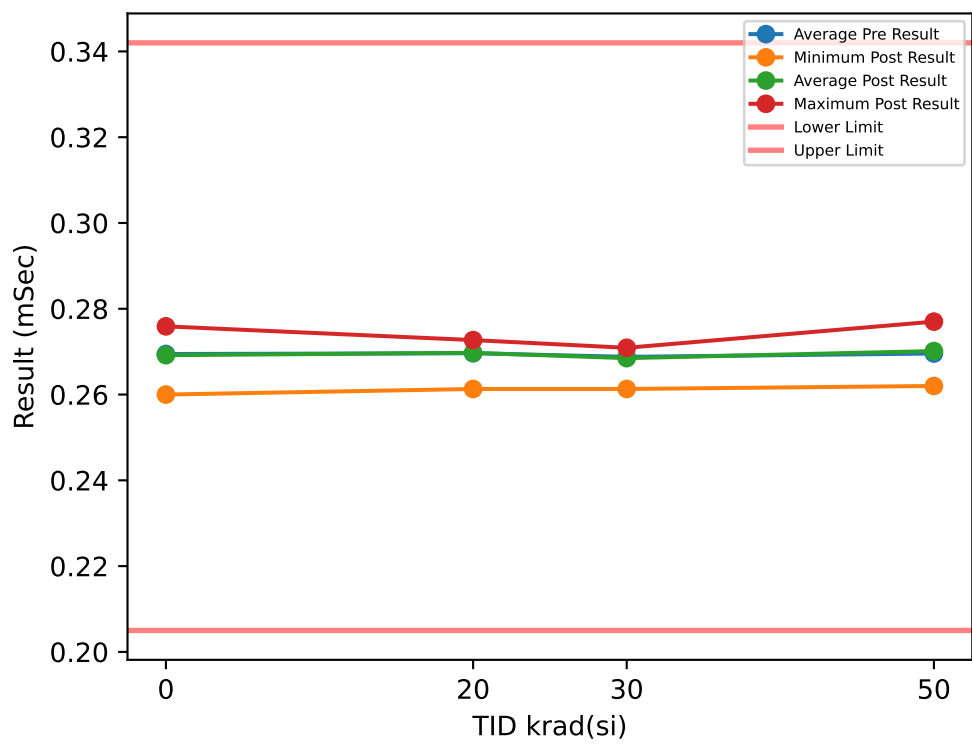
# Device Test: 17.118 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN2/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2742 | 0.2724 | -0.0018 |
| 2 | 20 | Bias | 0.2723 | 0.2727 | 0.0004 |
| 3 | 20 | Bias | 0.2703 | 0.2705 | 0.0002 |
| 4 | 20 | Bias | 0.2707 | 0.2722 | 0.0015 |
| 5 | 20 | Bias | 0.2679 | 0.2681 | 0.0002 |
| 6 | 20 | Unbiased | 0.2626 | 0.2613 | -0.0013 |
| 7 | 20 | Unbiased | 0.2694 | 0.2693 | -0.0001 |
| 8 | 20 | Unbiased | 0.2708 | 0.2713 | 0.0005 |
| 9 | 20 | Unbiased | 0.2712 | 0.2706 | -0.0006 |
| 10 | 20 | Unbiased | 0.2669 | 0.2689 | 0.002 |
| 11 | 30 | Bias | 0.2629 | 0.2693 | 0.0064 |
| 12 | 30 | Bias | 0.2689 | 0.264 | -0.0049 |
| 13 | 30 | Bias | 0.2711 | 0.2684 | -0.0027 |
| 14 | 30 | Bias | 0.2702 | 0.2709 | 0.0007 |
| 15 | 30 | Bias | 0.2727 | 0.2696 | -0.0031 |
| 16 | 30 | Unbiased | 0.2693 | 0.27 | 0.0007 |
| 17 | 30 | Unbiased | 0.27 | 0.2702 | 0.0002 |
| 18 | 30 | Unbiased | 0.2699 | 0.2705 | 0.0006 |
| 19 | 30 | Unbiased | 0.2627 | 0.2707 | 0.008 |
| 20 | 30 | Unbiased | 0.2702 | 0.2613 | -0.0089 |
| 21 | 50 | Bias | 0.2639 | 0.2708 | 0.0069 |
| 22 | 50 | Bias | 0.2624 | 0.2634 | 0.001 |
| 23 | 50 | Bias | 0.2717 | 0.262 | -0.0097 |
| 24 | 50 | Bias | 0.268 | 0.2711 | 0.0031 |
| 25 | 50 | Bias | 0.2763 | 0.277 | 0.0007 |
| 26 | 50 | Unbiased | 0.2735 | 0.2743 | 0.0008 |
| 27 | 50 | Unbiased | 0.268 | 0.2688 | 0.0008 |
| 28 | 50 | Unbiased | 0.2683 | 0.2708 | 0.0025 |
| 29 | 50 | Unbiased | 0.2731 | 0.2726 | -0.0005 |
| 30 | 50 | Unbiased | 0.2705 | 0.2706 | 0.0001 |
| 31 | 0 | Correlation | 0.2698 | 0.2707 | 0.0009 |
| 32 | 0 | Correlation | 0.2609 | 0.26 | -0.0009 |
| 33 | 0 | Correlation | 0.2774 | 0.2759 | -0.0015 |
| 34 | 0 | Correlation | 0.2697 | 0.2701 | 0.0004 |

## Test Statistics (mSec)
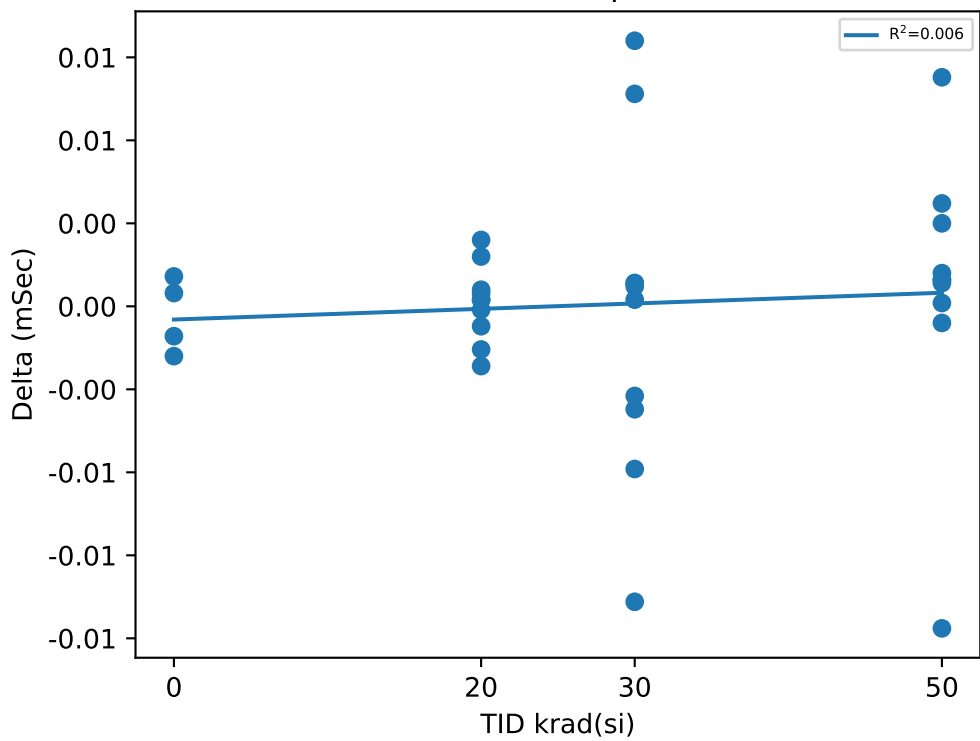
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2609 | 0.26945 | 0.2774 | 0.0067451 | 0.26 | 0.26917 | 0.2759 | 0.006648 | -0.0015 | -0.000275 | 0.0009 | 0.0011147 |
| 20 | 0.2626 | 0.26963 | 0.2742 | 0.0032208 | 0.2613 | 0.26973 | 0.2727 | 0.003341 | -0.0018 | 0.0001 | 0.002 | 0.0011518 |
| 30 | 0.2627 | 0.26879 | 0.2727 | 0.0033225 | 0.2613 | 0.26849 | 0.2709 | 0.0032264 | -0.0089 | -0.0003 | 0.008 | 0.0050062 |
| 50 | 0.2624 | 0.26957 | 0.2763 | 0.0043295 | 0.262 | 0.27014 | 0.277 | 0.0045449 | -0.0097 | 0.00057 | 0.0069 | 0.0041812 |
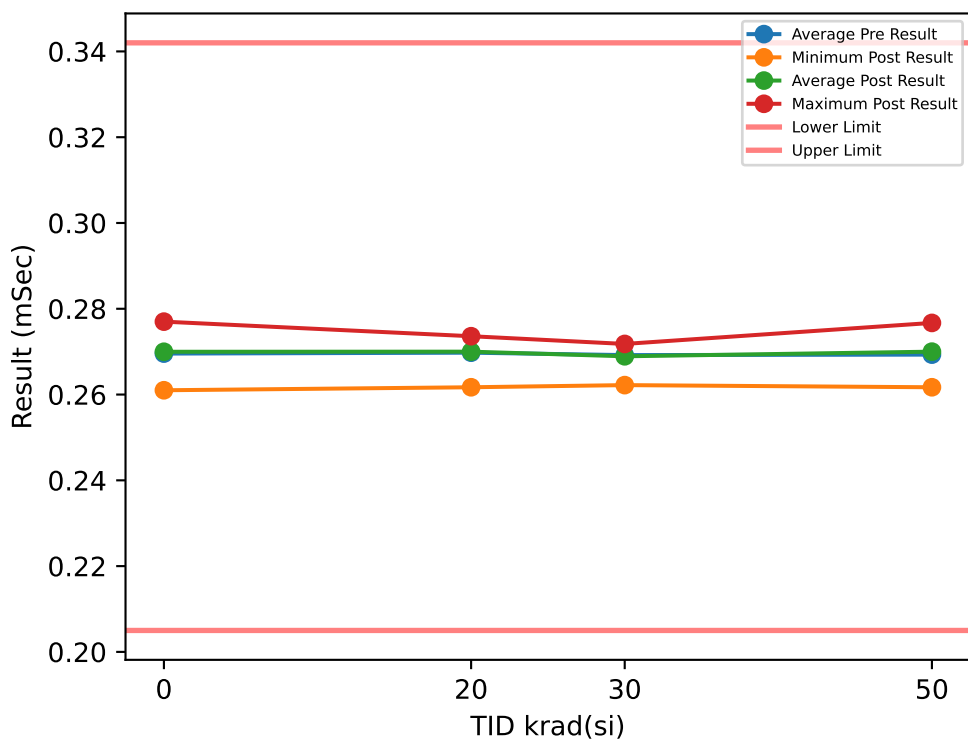
# Device Test: 17.119 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN3/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 0.2742 | 0.2736 | -0.0006 |
| 2 | 20 | Bias | 0.2726 | 0.2719 | -0.0007 |
| 3 | 20 | Bias | 0.2696 | 0.2704 | 0.0008 |
| 4 | 20 | Bias | 0.272 | 0.2725 | 0.0005 |
| 5 | 20 | Bias | 0.2679 | 0.2689 | 0.001 |
| 6 | 20 | Unbiased | 0.2627 | 0.2617 | -0.001 |
| 7 | 20 | Unbiased | 0.2694 | 0.2714 | 0.002 |
| 8 | 20 | Unbiased | 0.2712 | 0.2714 | 0.0002 |
| 9 | 20 | Unbiased | 0.2707 | 0.2706 | -0.0001 |
| 10 | 20 | Unbiased | 0.2673 | 0.2676 | 0.0003 |
| 11 | 30 | Bias | 0.2633 | 0.2706 | 0.0073 |
| 12 | 30 | Bias | 0.2685 | 0.2628 | -0.0057 |
| 13 | 30 | Bias | 0.2714 | 0.2698 | -0.0016 |
| 14 | 30 | Bias | 0.2713 | 0.2718 | 0.0005 |
| 15 | 30 | Bias | 0.2723 | 0.2696 | -0.0027 |
| 16 | 30 | Unbiased | 0.2709 | 0.2714 | 0.0005 |
| 17 | 30 | Unbiased | 0.2693 | 0.2695 | 0.0002 |
| 18 | 30 | Unbiased | 0.2715 | 0.2702 | -0.0013 |
| 19 | 30 | Unbiased | 0.263 | 0.2713 | 0.0083 |
| 20 | 30 | Unbiased | 0.2705 | 0.2622 | -0.0083 |
| 21 | 50 | Bias | 0.2635 | 0.2706 | 0.0071 |
| 22 | 50 | Bias | 0.261 | 0.2653 | 0.0043 |
| 23 | 50 | Bias | 0.272 | 0.2617 | -0.0103 |
| 24 | 50 | Bias | 0.2681 | 0.2701 | 0.002 |
| 25 | 50 | Bias | 0.2765 | 0.2767 | 0.0002 |
| 26 | 50 | Unbiased | 0.2728 | 0.2733 | 0.0005 |
| 27 | 50 | Unbiased | 0.2685 | 0.2693 | 0.0008 |
| 28 | 50 | Unbiased | 0.2687 | 0.2697 | 0.001 |
| 29 | 50 | Unbiased | 0.2703 | 0.2725 | 0.0022 |
| 30 | 50 | Unbiased | 0.2717 | 0.2708 | -0.0009 |
| 31 | 0 | Correlation | 0.2708 | 0.2708 | 0 |
| 32 | 0 | Correlation | 0.2605 | 0.261 | 0.0005 |
| 33 | 0 | Correlation | 0.2785 | 0.277 | -0.0015 |
| 34 | 0 | Correlation | 0.2684 | 0.2711 | 0.0027 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2605 | 0.26955 | 0.2785 | 0.0074137 | 0.261 | 0.26998 | 0.277 | 0.0066294 | -0.0015 | 0.000425 | 0.0027 | 0.0017385 |
| 20 | 0.2627 | 0.26976 | 0.2742 | 0.0032534 | 0.2617 | 0.27 | 0.2736 | 0.0033849 | -0.001 | 0.00024 | 0.002 | 0.00090086 |
| 30 | 0.263 | 0.2692 | 0.2723 | 0.0033744 | 0.2622 | 0.26892 | 0.2718 | 0.0034762 | -0.0083 | -0.00028 | 0.0083 | 0.0051083 |
| 50 | 0.261 | 0.26931 | 0.2765 | 0.0045106 | 0.2617 | 0.27 | 0.2767 | 0.0041446 | -0.0103 | 0.00069 | 0.0071 | 0.0044946 |

# Device Test: 17.12  TPD_PWRGD(_DELAY|STEP_DOWN/PWRGD/1.6/3/0/0/0/@TPD_PWRGD )

## TID vs Result Stats

## TID vs Post - Pre Exposure Delta

## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 3.4033 | 3.4159 | 0.0126 |
| 2 | 20 | Bias | 3.3258 | 3.2415 | -0.0843 |
| 3 | 20 | Bias | 3.1648 | 3.3501 | 0.1853 |
| 4 | 20 | Bias | 3.3521 | 3.3196 | -0.0325 |
| 5 | 20 | Bias | 3.2242 | 3.4585 | 0.2343 |
| 6 | 20 | Unbiased | 3.3832 | 3.4797 | 0.0965 |
| 7 | 20 | Unbiased | 3.0127 | 3.4203 | 0.4076 |
| 8 | 20 | Unbiased | 3.4585 | 3.3062 | -0.1523 |
| 9 | 20 | Unbiased | 3.2025 | 3.2251 | 0.0226 |
| 10 | 20 | Unbiased | 3.109 | 3.1909 | 0.0819 |
| 11 | 30 | Bias | 3.2724 | 3.215 | -0.0574 |
| 12 | 30 | Bias | 3.3403 | 3.3345 | -0.0058 |
| 13 | 30 | Bias | 3.0834 | 3.2277 | 0.1443 |
| 14 | 30 | Bias | 3.2601 | 3.0475 | -0.2126 |
| 15 | 30 | Bias | 3.3316 | 3.3579 | 0.0263 |
| 16 | 30 | Unbiased | 3.4631 | 3.2875 | -0.1756 |
| 17 | 30 | Unbiased | 3.1166 | 3.1625 | 0.0459 |
| 18 | 30 | Unbiased | 3.2662 | 2.9802 | -0.286 |
| 19 | 30 | Unbiased | 3.2892 | 3.2602 | -0.029 |
| 20 | 30 | Unbiased | 3.3214 | 3.589 | 0.2676 |
| 21 | 50 | Bias | 3.3562 | 3.2031 | -0.1531 |
| 22 | 50 | Bias | 3.2585 | 3.4907 | 0.2322 |
| 23 | 50 | Bias | 3.0952 | 3.1533 | 0.0581 |
| 24 | 50 | Bias | 3.2887 | 3.3406 | 0.0519 |
| 25 | 50 | Bias | 3.2456 | 3.0341 | -0.2115 |
| 26 | 50 | Unbiased | 3.195 | 3.1921 | -0.0029 |
| 27 | 50 | Unbiased | 3.4119 | 3.0217 | -0.3902 |
| 28 | 50 | Unbiased | 3.1529 | 3.3994 | 0.2465 |
| 29 | 50 | Unbiased | 3.2449 | 3.4091 | 0.1642 |
| 30 | 50 | Unbiased | 3.1113 | 3.2176 | 0.1063 |
| 31 | 0 | Correlation | 3.3036 | 3.2979 | -0.0057 |
| 32 | 0 | Correlation | 3.2877 | 3.2549 | -0.0328 |
| 33 | 0 | Correlation | 3.421 | 3.3253 | -0.0957 |
| 34 | 0 | Correlation | 3.3576 | 3.3307 | -0.0269 |

## Test Statistics (uSec)
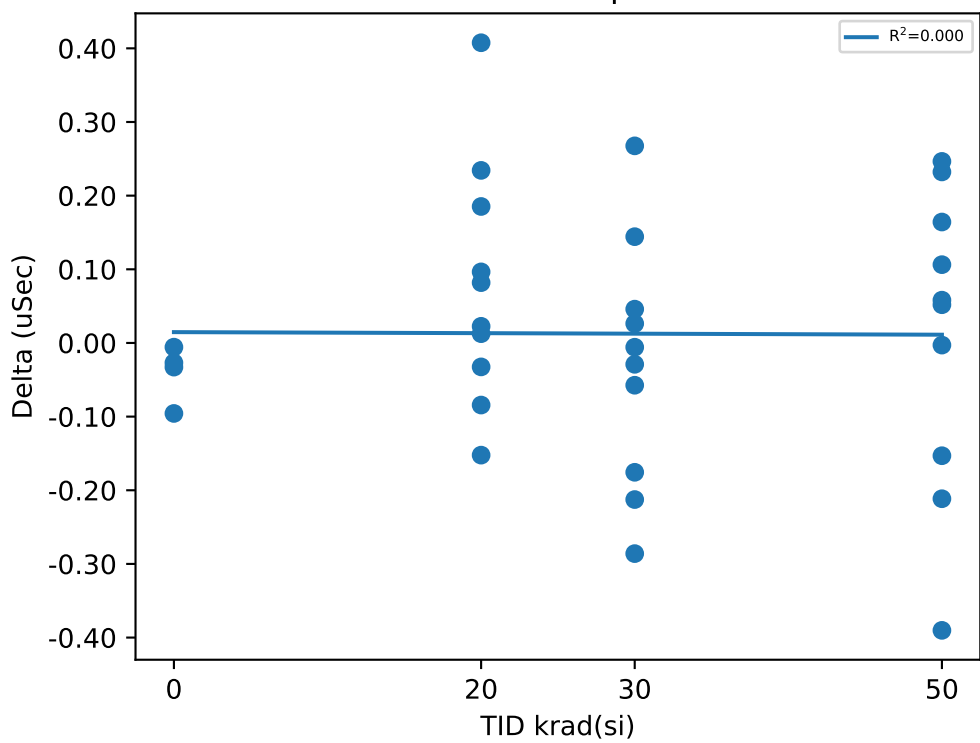
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.2877 | 3.3425 | 3.421 | 0.060295 | 3.2549 | 3.3022 | 3.3307 | 0.034649 | -0.0957 | -0.040275 | -0.0057 | 0.038739 |
| 20 | 3.0127 | 3.2636 | 3.4585 | 0.14353 | 3.1909 | 3.3408 | 3.4797 | 0.10141 | -0.1523 | 0.07717 | 0.4076 | 0.16461 |
| 30 | 3.0834 | 3.2744 | 3.4631 | 0.10919 | 2.9802 | 3.2462 | 3.589 | 0.16939 | -0.286 | -0.02823 | 0.2676 | 0.16642 |
| 50 | 3.0952 | 3.236 | 3.4119 | 0.10155 | 3.0217 | 3.2462 | 3.4907 | 0.15928 | -0.3902 | 0.01015 | 0.2465 | 0.20505 |
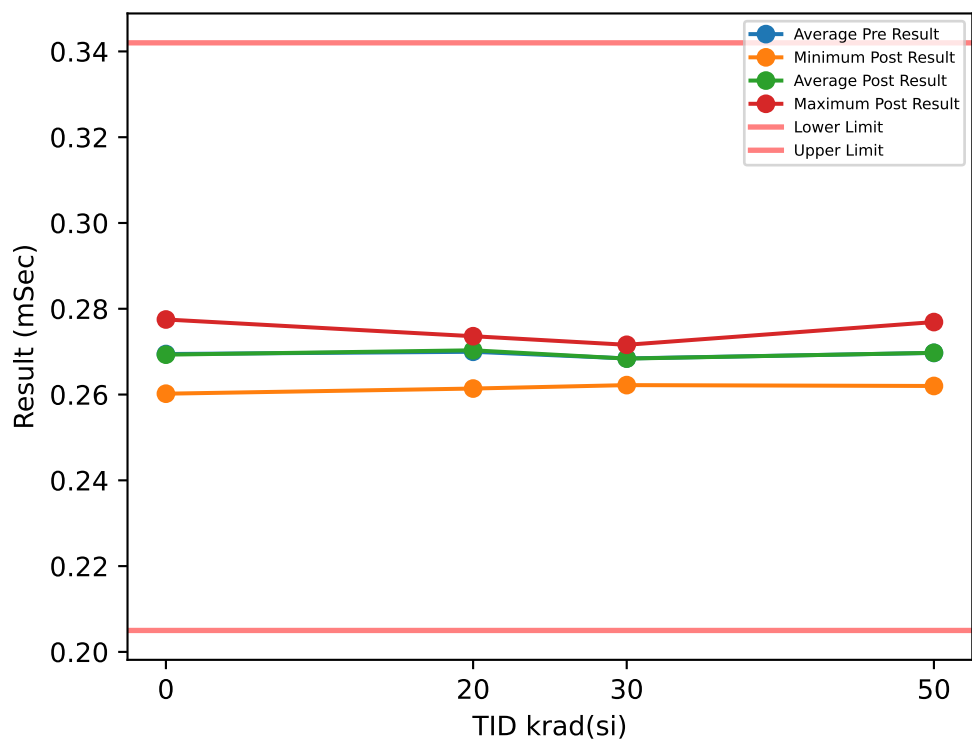
# Device Test: 17.120 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN4/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.273 | 0.2726 | -0.0004 |
| 2 | 20 | Bias | 0.2737 | 0.2736 | -0.0001 |
| 3 | 20 | Bias | 0.2706 | 0.2702 | -0.0004 |
| 4 | 20 | Bias | 0.2716 | 0.2727 | 0.0011 |
| 5 | 20 | Bias | 0.2691 | 0.2696 | 0.0005 |
| 6 | 20 | Unbiased | 0.2641 | 0.2614 | -0.0027 |
| 7 | 20 | Unbiased | 0.2703 | 0.2716 | 0.0013 |
| 8 | 20 | Unbiased | 0.2703 | 0.272 | 0.0017 |
| 9 | 20 | Unbiased | 0.2698 | 0.2713 | 0.0015 |
| 10 | 20 | Unbiased | 0.2672 | 0.2682 | 0.001 |
| 11 | 30 | Bias | 0.2638 | 0.2692 | 0.0054 |
| 12 | 30 | Bias | 0.2695 | 0.2622 | -0.0073 |
| 13 | 30 | Bias | 0.2699 | 0.2698 | -0.0001 |
| 14 | 30 | Bias | 0.2687 | 0.2688 | 0.0001 |
| 15 | 30 | Bias | 0.2716 | 0.2688 | -0.0028 |
| 16 | 30 | Unbiased | 0.2691 | 0.2716 | 0.0025 |
| 17 | 30 | Unbiased | 0.2693 | 0.2697 | 0.0004 |
| 18 | 30 | Unbiased | 0.2706 | 0.2712 | 0.0006 |
| 19 | 30 | Unbiased | 0.2609 | 0.27 | 0.0091 |
| 20 | 30 | Unbiased | 0.2708 | 0.2625 | -0.0083 |
| 21 | 50 | Bias | 0.2627 | 0.2703 | 0.0076 |
| 22 | 50 | Bias | 0.2628 | 0.2639 | 0.0011 |
| 23 | 50 | Bias | 0.2729 | 0.262 | -0.0109 |
| 24 | 50 | Bias | 0.2677 | 0.2715 | 0.0038 |
| 25 | 50 | Bias | 0.2788 | 0.2769 | -0.0019 |
| 26 | 50 | Unbiased | 0.2725 | 0.2731 | 0.0006 |
| 27 | 50 | Unbiased | 0.2691 | 0.2677 | -0.0014 |
| 28 | 50 | Unbiased | 0.2705 | 0.2681 | -0.0024 |
| 29 | 50 | Unbiased | 0.2712 | 0.2719 | 0.0007 |
| 30 | 50 | Unbiased | 0.2689 | 0.2719 | 0.003 |
| 31 | 0 | Correlation | 0.2715 | 0.2704 | -0.0011 |
| 32 | 0 | Correlation | 0.2616 | 0.2602 | -0.0014 |
| 33 | 0 | Correlation | 0.276 | 0.2775 | 0.0015 |
| 34 | 0 | Correlation | 0.2687 | 0.2691 | 0.0004 |

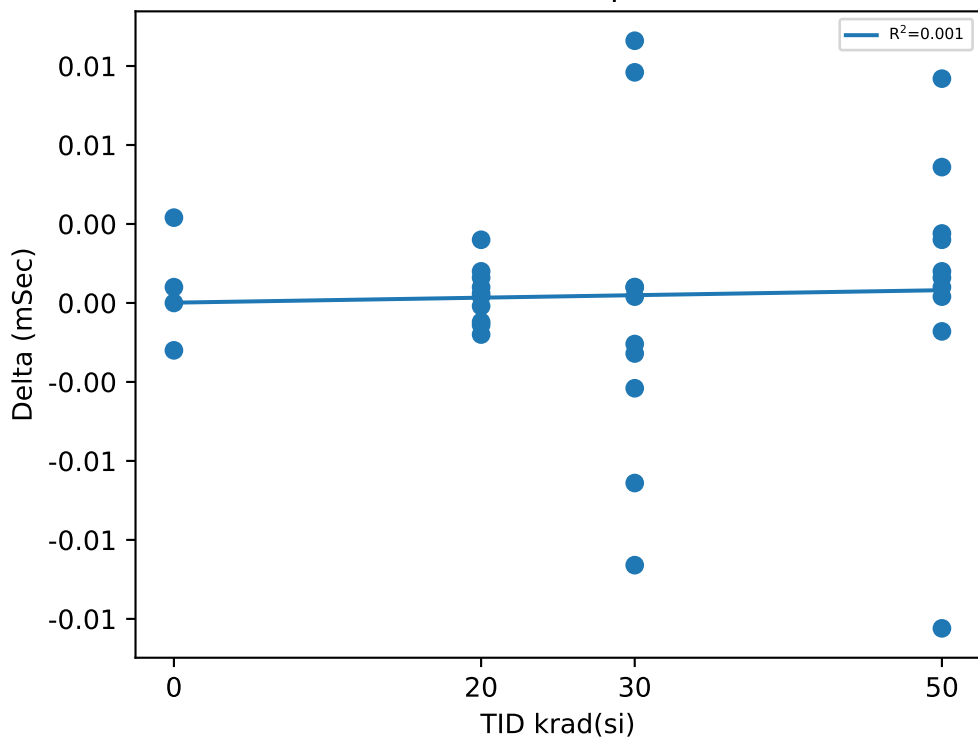## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2616 | 0.26945 | 0.276 | 0.0060357 | 0.2602 | 0.2693 | 0.2775 | 0.0071016 | -0.0014 | -0.00015 | 0.0015 | 0.0013528 |
| 20 | 0.2641 | 0.26997 | 0.2737 | 0.0027745 | 0.2614 | 0.27032 | 0.2736 | 0.0035219 | -0.0027 | 0.00035 | 0.0017 | 0.0013201 |
| 30 | 0.2609 | 0.26842 | 0.2716 | 0.0033845 | 0.2622 | 0.26838 | 0.2716 | 0.0033082 | -0.0083 | -4e-05 | 0.0091 | 0.0052574 |
| 50 | 0.2627 | 0.26971 | 0.2788 | 0.0047771 | 0.262 | 0.26973 | 0.2769 | 0.0044242 | -0.0109 | 2e-05 | 0.0076 | 0.0048694 |
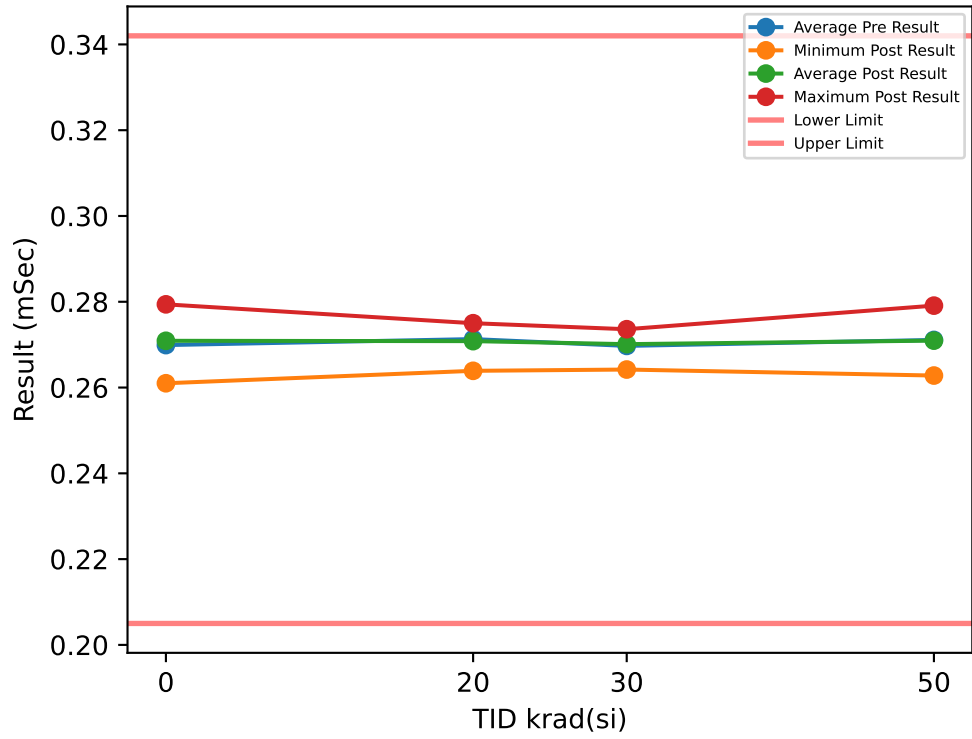
# Device Test: 17.121 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/SEQ_DONE/7/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

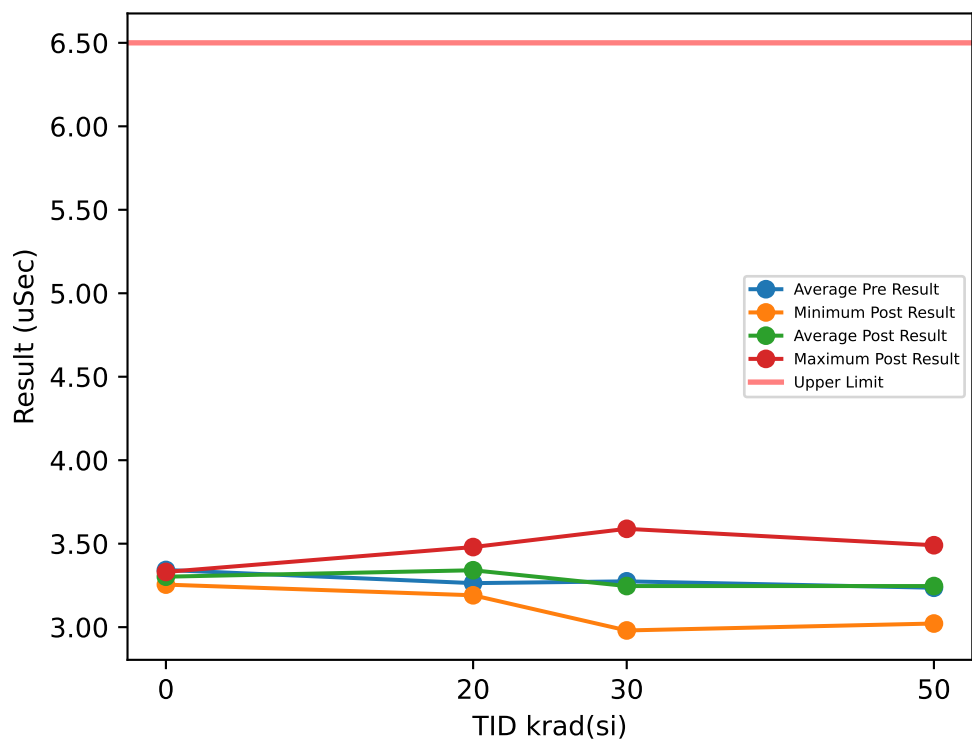| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2751 | 0.275 | -0.0001 |
| 2 | 20 | Bias | 0.275 | 0.2734 | -0.0016 |
| 3 | 20 | Bias | 0.2717 | 0.2696 | -0.0021 |
| 4 | 20 | Bias | 0.2724 | 0.273 | 0.0006 |
| 5 | 20 | Bias | 0.2704 | 0.2697 | -0.0007 |
| 6 | 20 | Unbiased | 0.2632 | 0.2639 | 0.0007 |
| 7 | 20 | Unbiased | 0.2719 | 0.2714 | -0.0005 |
| 8 | 20 | Unbiased | 0.2733 | 0.2727 | -0.0006 |
| 9 | 20 | Unbiased | 0.2715 | 0.2709 | -0.0006 |
| 10 | 20 | Unbiased | 0.2685 | 0.2686 | 0.0001 |
| 11 | 30 | Bias | 0.2633 | 0.2703 | 0.007 |
| 12 | 30 | Bias | 0.2696 | 0.2647 | -0.0049 |
| 13 | 30 | Bias | 0.271 | 0.2712 | 0.0002 |
| 14 | 30 | Bias | 0.2711 | 0.2717 | 0.0006 |
| 15 | 30 | Bias | 0.273 | 0.2718 | -0.0012 |
| 16 | 30 | Unbiased | 0.2709 | 0.2727 | 0.0018 |
| 17 | 30 | Unbiased | 0.271 | 0.2696 | -0.0014 |
| 18 | 30 | Unbiased | 0.2712 | 0.2714 | 0.0002 |
| 19 | 30 | Unbiased | 0.2646 | 0.2736 | 0.009 |
| 20 | 30 | Unbiased | 0.2714 | 0.2642 | -0.0072 |
| 21 | 50 | Bias | 0.265 | 0.27 | 0.005 |
| 22 | 50 | Bias | 0.2635 | 0.2656 | 0.0021 |
| 23 | 50 | Bias | 0.2737 | 0.2628 | -0.0109 |
| 24 | 50 | Bias | 0.2708 | 0.2719 | 0.0011 |
| 25 | 50 | Bias | 0.2791 | 0.2791 | 0 |
| 26 | 50 | Unbiased | 0.2744 | 0.2752 | 0.0008 |
| 27 | 50 | Unbiased | 0.2704 | 0.2688 | -0.0016 |
| 28 | 50 | Unbiased | 0.2698 | 0.2718 | 0.002 |
| 29 | 50 | Unbiased | 0.2724 | 0.2735 | 0.0011 |
| 30 | 50 | Unbiased | 0.2719 | 0.2707 | -0.0012 |
| 31 | 0 | Correlation | 0.2704 | 0.2708 | 0.0004 |
| 32 | 0 | Correlation | 0.2619 | 0.261 | -0.0009 |
| 33 | 0 | Correlation | 0.2783 | 0.2794 | 0.0011 |
| 34 | 0 | Correlation | 0.269 | 0.2724 | 0.0034 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2619 | 0.2699 | 0.2783 | 0.0067236 | 0.261 | 0.2709 | 0.2794 | 0.0075833 | -0.0009 | 0.001 | 0.0034 | 0.0018019 |
| 20 | 0.2632 | 0.2713 | 0.2751 | 0.0034667 | 0.2639 | 0.27082 | 0.275 | 0.0031326 | -0.0021 | -0.00048 | 0.0007 | 0.00088167 |
| 30 | 0.2633 | 0.26971 | 0.273 | 0.0031586 | 0.2642 | 0.27012 | 0.2736 | 0.0031905 | -0.0072 | 0.00041 | 0.009 | 0.0048448 |
| 50 | 0.2635 | 0.2711 | 0.2791 | 0.0044873 | 0.2628 | 0.27094 | 0.2791 | 0.0046337 | -0.0109 | -0.00016 | 0.005 | 0.0042035 |
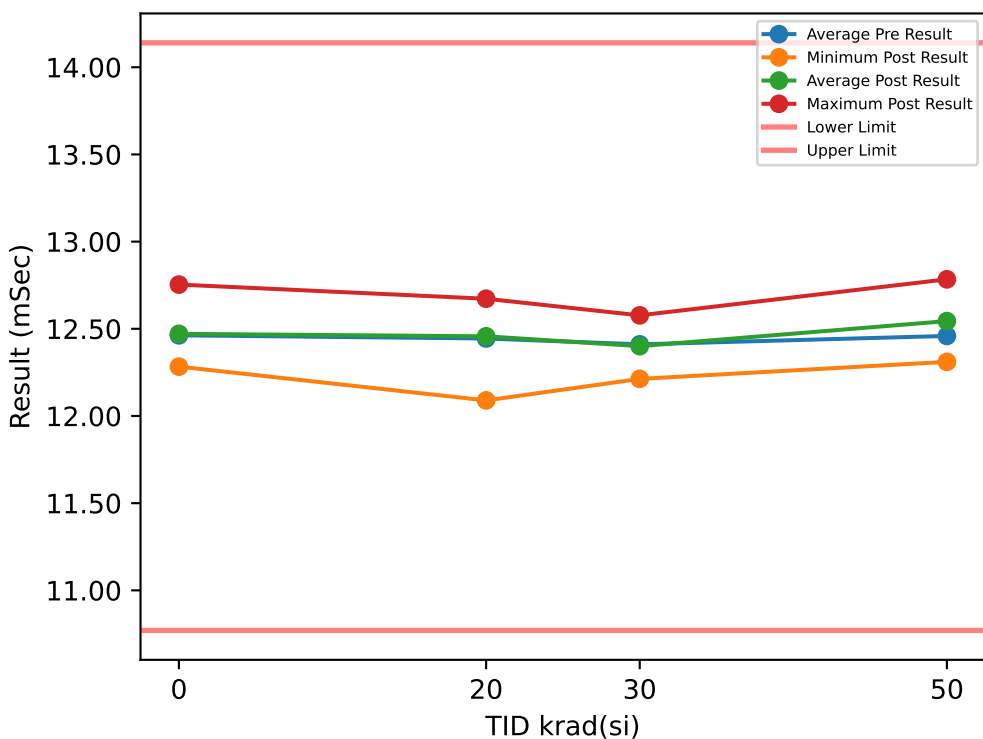
# Device Test: 17.122 DLY_TMR_500KOHM(_DELAY|STEP_UP/EN1/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.288 | 12.444 | 0.156 |
| 2 | 20 | Bias | 12.551 | 12.672 | 0.1218 |
| 3 | 20 | Bias | 12.269 | 12.148 | -0.1208 |
| 4 | 20 | Bias | 12.776 | 12.647 | -0.129 |
| 5 | 20 | Bias | 12.447 | 12.618 | 0.1704 |
| 6 | 20 | Unbiased | 12.308 | 12.089 | -0.2189 |
| 7 | 20 | Unbiased | 12.526 | 12.52 | -0.0057 |
| 8 | 20 | Unbiased | 12.333 | 12.461 | 0.1284 |
| 9 | 20 | Unbiased | 12.642 | 12.637 | -0.0043 |
| 10 | 20 | Unbiased | 12.306 | 12.332 | 0.0262 |
| 11 | 30 | Bias | 12.348 | 12.342 | -0.0058 |
| 12 | 30 | Bias | 12.456 | 12.434 | -0.0219 |
| 13 | 30 | Bias | 12.537 | 12.333 | -0.2037 |
| 14 | 30 | Bias | 12.346 | 12.577 | 0.231 |
| 15 | 30 | Bias | 12.384 | 12.231 | -0.153 |
| 16 | 30 | Unbiased | 12.454 | 12.563 | 0.1095 |
| 17 | 30 | Unbiased | 12.518 | 12.429 | -0.0892 |
| 18 | 30 | Unbiased | 12.474 | 12.536 | 0.0621 |
| 19 | 30 | Unbiased | 12.242 | 12.346 | 0.1046 |
| 20 | 30 | Unbiased | 12.349 | 12.213 | -0.1362 |
| 21 | 50 | Bias | 12.29 | 12.526 | 0.2358 |
| 22 | 50 | Bias | 12.13 | 12.316 | 0.1859 |
| 23 | 50 | Bias | 12.605 | 12.357 | -0.2482 |
| 24 | 50 | Bias | 12.44 | 12.585 | 0.1449 |
| 25 | 50 | Bias | 12.501 | 12.741 | 0.2397 |
| 26 | 50 | Unbiased | 12.546 | 12.731 | 0.1851 |
| 27 | 50 | Unbiased | 12.498 | 12.31 | -0.1881 |
| 28 | 50 | Unbiased | 12.653 | 12.635 | -0.0177 |
| 29 | 50 | Unbiased | 12.58 | 12.784 | 0.2034 |
| 30 | 50 | Unbiased | 12.347 | 12.457 | 0.1102 |
| 31 | 0 | Correlation | 12.515 | 12.354 | -0.1602 |
| 32 | 0 | Correlation | 12.152 | 12.283 | 0.1311 |
| 33 | 0 | Correlation | 12.762 | 12.754 | -0.0088 |
| 34 | 0 | Correlation | 12.421 | 12.493 | 0.0719 |

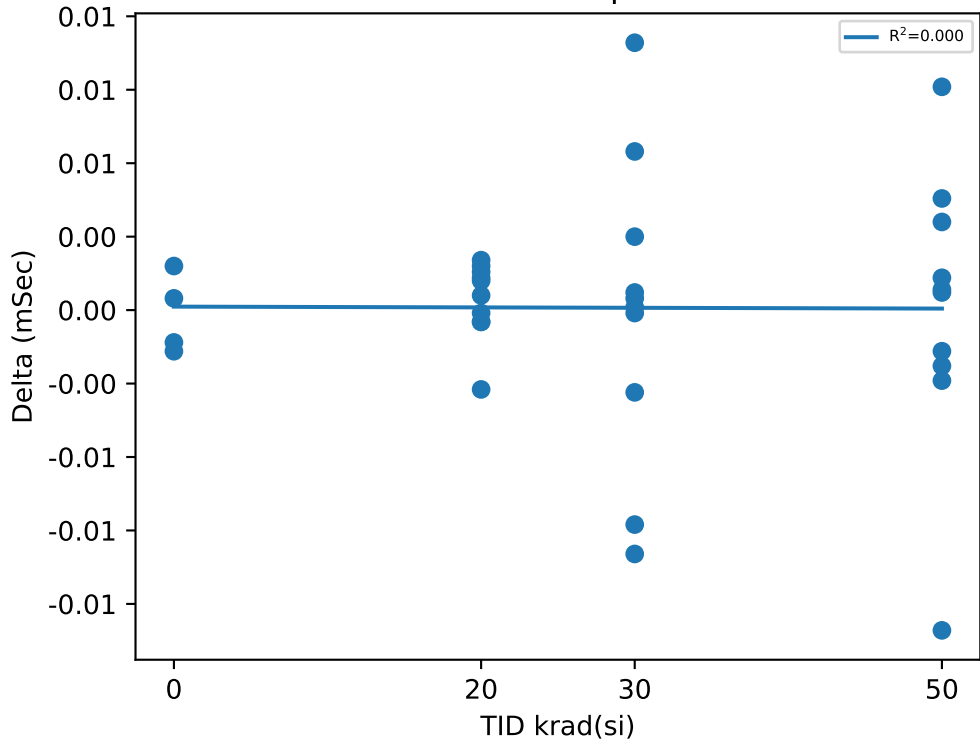## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.152 | 12.463 | 12.762 | 0.25225 | 12.283 | 12.471 | 12.754 | 0.20763 | -0.1602 | 0.0085 | 0.1311 | 0.12624 |
| 20 | 12.269 | 12.445 | 12.776 | 0.17393 | 12.089 | 12.457 | 12.672 | 0.20848 | -0.2189 | 0.01241 | 0.1704 | 0.13459 |
| 30 | 12.242 | 12.411 | 12.537 | 0.092223 | 12.213 | 12.4 | 12.577 | 0.13037 | -0.2037 | -0.01026 | 0.231 | 0.13785 |
| 50 | 12.13 | 12.459 | 12.653 | 0.16136 | 12.31 | 12.544 | 12.784 | 0.17976 | -0.2482 | 0.0851 | 0.2397 | 0.17678 |
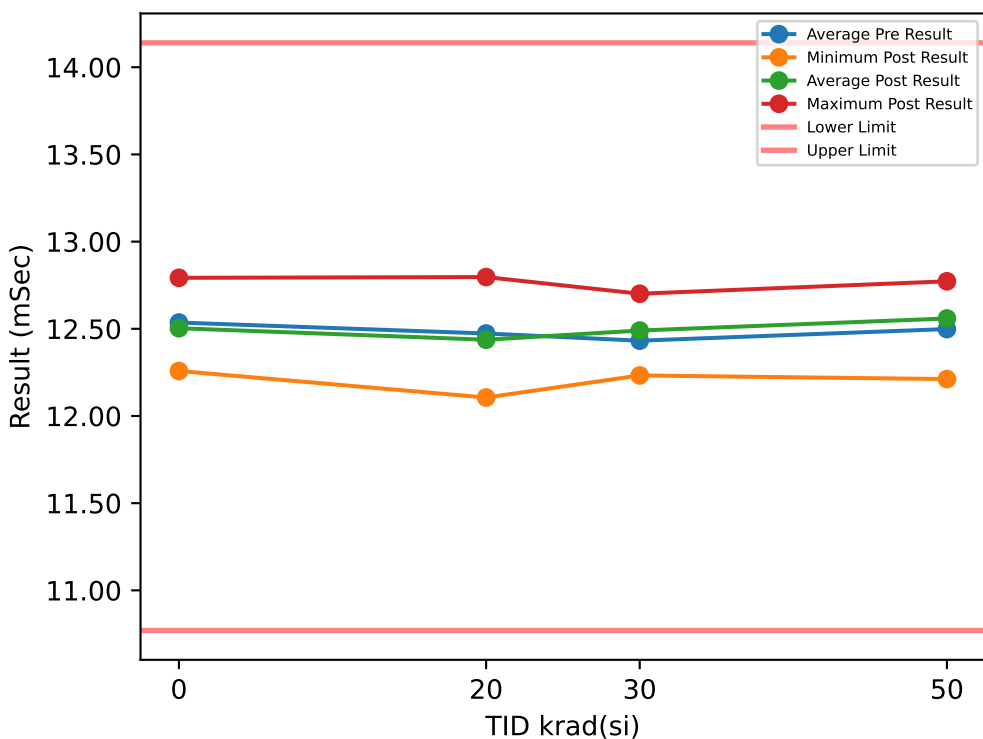
# Device Test: 17.123 DLY_TMR_500KOHM(_DELAY|STEP_UP/EN2/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.453 | 12.423 | -0.03 |
| 2 | 20 | Bias | 12.603 | 12.668 | 0.0649 |
| 3 | 20 | Bias | 12.125 | 12.168 | 0.0427 |
| 4 | 20 | Bias | 12.597 | 12.797 | 0.1994 |
| 5 | 20 | Bias | 12.594 | 12.495 | -0.0991 |
| 6 | 20 | Unbiased | 12.309 | 12.106 | -0.2036 |
| 7 | 20 | Unbiased | 12.529 | 12.365 | -0.1639 |
| 8 | 20 | Unbiased | 12.497 | 12.428 | -0.0687 |
| 9 | 20 | Unbiased | 12.727 | 12.726 | -0.0013 |
| 10 | 20 | Unbiased | 12.296 | 12.197 | -0.0993 |
| 11 | 30 | Bias | 12.23 | 12.511 | 0.2812 |
| 12 | 30 | Bias | 12.332 | 12.431 | 0.0987 |
| 13 | 30 | Bias | 12.549 | 12.495 | -0.0535 |
| 14 | 30 | Bias | 12.321 | 12.556 | 0.235 |
| 15 | 30 | Bias | 12.551 | 12.39 | -0.1611 |
| 16 | 30 | Unbiased | 12.455 | 12.563 | 0.1082 |
| 17 | 30 | Unbiased | 12.652 | 12.564 | -0.0884 |
| 18 | 30 | Unbiased | 12.333 | 12.701 | 0.368 |
| 19 | 30 | Unbiased | 12.385 | 12.458 | 0.0732 |
| 20 | 30 | Unbiased | 12.51 | 12.232 | -0.2778 |
| 21 | 50 | Bias | 12.13 | 12.397 | 0.2674 |
| 22 | 50 | Bias | 12.264 | 12.318 | 0.0538 |
| 23 | 50 | Bias | 12.778 | 12.212 | -0.5664 |
| 24 | 50 | Bias | 12.427 | 12.76 | 0.333 |
| 25 | 50 | Bias | 12.479 | 12.731 | 0.2513 |
| 26 | 50 | Unbiased | 12.691 | 12.772 | 0.0817 |
| 27 | 50 | Unbiased | 12.474 | 12.426 | -0.0483 |
| 28 | 50 | Unbiased | 12.65 | 12.605 | -0.0457 |
| 29 | 50 | Unbiased | 12.563 | 12.751 | 0.1875 |
| 30 | 50 | Unbiased | 12.528 | 12.62 | 0.0928 |
| 31 | 0 | Correlation | 12.509 | 12.474 | -0.0356 |
| 32 | 0 | Correlation | 12.268 | 12.258 | -0.0094 |
| 33 | 0 | Correlation | 12.787 | 12.792 | 0.0054 |
| 34 | 0 | Correlation | 12.58 | 12.489 | -0.0906 |

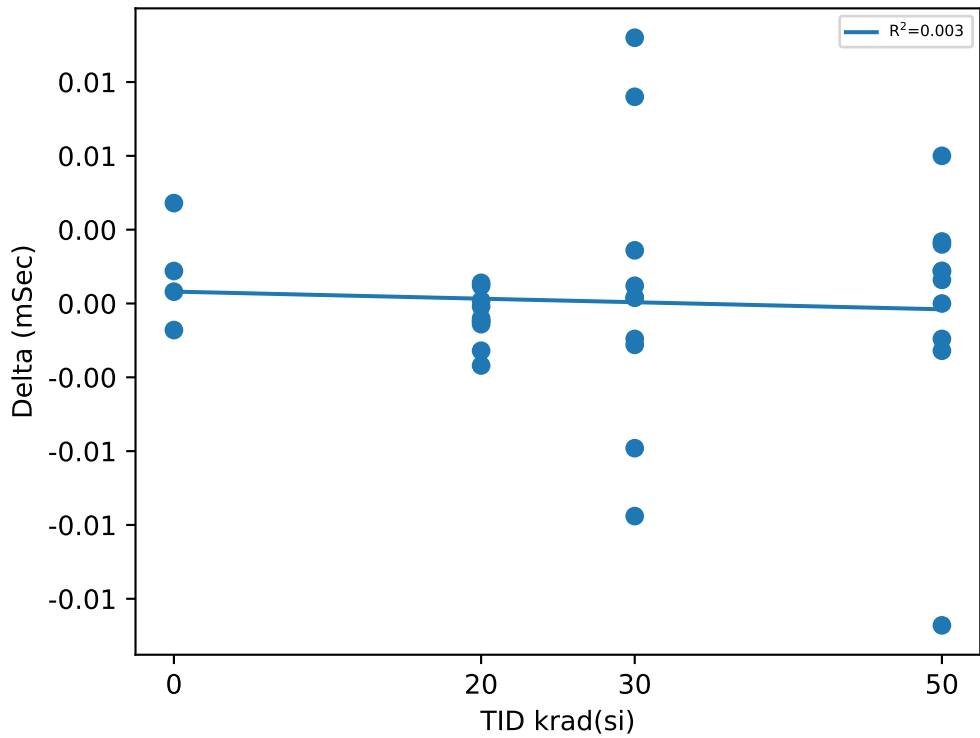## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.268 | 12.536 | 12.787 | 0.21426 | 12.258 | 12.503 | 12.792 | 0.21968 | -0.0906 | -0.03255 | 0.0054 | 0.04225 |
| 20 | 12.125 | 12.473 | 12.727 | 0.18096 | 12.106 | 12.437 | 12.797 | 0.23913 | -0.2036 | -0.03589 | 0.1994 | 0.11857 |
| 30 | 12.23 | 12.432 | 12.652 | 0.13258 | 12.232 | 12.49 | 12.701 | 0.12514 | -0.2778 | 0.05835 | 0.368 | 0.20447 |
| 50 | 12.13 | 12.498 | 12.778 | 0.19451 | 12.212 | 12.559 | 12.772 | 0.20571 | -0.5664 | 0.06071 | 0.333 | 0.25544 |

# Device Test: 17.124 DLY_TMR_500KOHM(_DELAY|STEP_UP/EN3/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.438 | 12.29 | -0.1489 |
| 2 | 20 | Bias | 12.511 | 12.655 | 0.1449 |
| 3 | 20 | Bias | 12.122 | 12.142 | 0.0202 |
| 4 | 20 | Bias | 12.599 | 12.799 | 0.1997 |
| 5 | 20 | Bias | 12.596 | 12.633 | 0.0372 |
| 6 | 20 | Unbiased | 12.181 | 12.111 | -0.0704 |
| 7 | 20 | Unbiased | 12.502 | 12.509 | 0.0074 |
| 8 | 20 | Unbiased | 12.485 | 12.443 | -0.0426 |
| 9 | 20 | Unbiased | 12.738 | 12.715 | -0.0228 |
| 10 | 20 | Unbiased | 12.288 | 12.205 | -0.0832 |
| 11 | 30 | Bias | 12.354 | 12.367 | 0.0134 |
| 12 | 30 | Bias | 12.454 | 12.442 | -0.0119 |
| 13 | 30 | Bias | 12.533 | 12.496 | -0.0373 |
| 14 | 30 | Bias | 12.325 | 12.583 | 0.2572 |
| 15 | 30 | Bias | 12.563 | 12.368 | -0.1947 |
| 16 | 30 | Unbiased | 12.599 | 12.552 | -0.0474 |
| 17 | 30 | Unbiased | 12.651 | 12.577 | -0.0738 |
| 18 | 30 | Unbiased | 12.466 | 12.54 | 0.0738 |
| 19 | 30 | Unbiased | 12.272 | 12.47 | 0.1976 |
| 20 | 30 | Unbiased | 12.512 | 12.342 | -0.1705 |
| 21 | 50 | Bias | 12.259 | 12.534 | 0.2744 |
| 22 | 50 | Bias | 12.27 | 12.2 | -0.0702 |
| 23 | 50 | Bias | 12.756 | 12.335 | -0.4205 |
| 24 | 50 | Bias | 12.421 | 12.586 | 0.1653 |
| 25 | 50 | Bias | 12.483 | 12.711 | 0.2282 |
| 26 | 50 | Unbiased | 12.685 | 12.776 | 0.0909 |
| 27 | 50 | Unbiased | 12.501 | 12.306 | -0.1951 |
| 28 | 50 | Unbiased | 12.468 | 12.595 | 0.1265 |
| 29 | 50 | Unbiased | 12.566 | 12.787 | 0.2213 |
| 30 | 50 | Unbiased | 12.524 | 12.618 | 0.0945 |
| 31 | 0 | Correlation | 12.499 | 12.49 | -0.009 |
| 32 | 0 | Correlation | 12.262 | 12.15 | -0.112 |
| 33 | 0 | Correlation | 12.78 | 12.786 | 0.0066 |
| 34 | 0 | Correlation | 12.597 | 12.385 | -0.2121 |

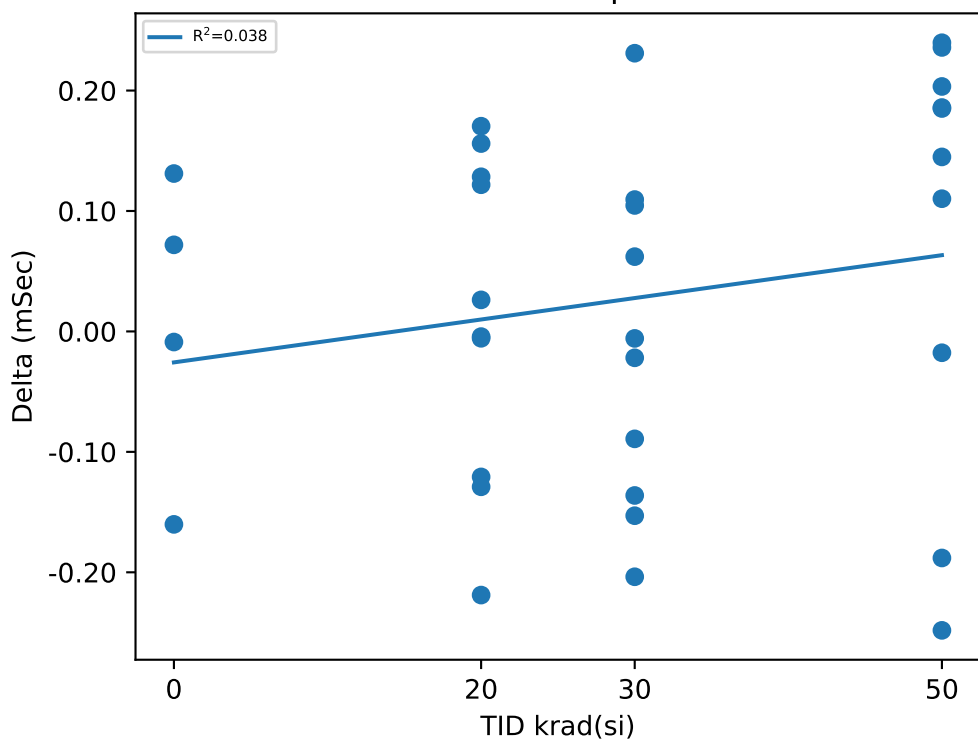## Test Statistics (mSec)
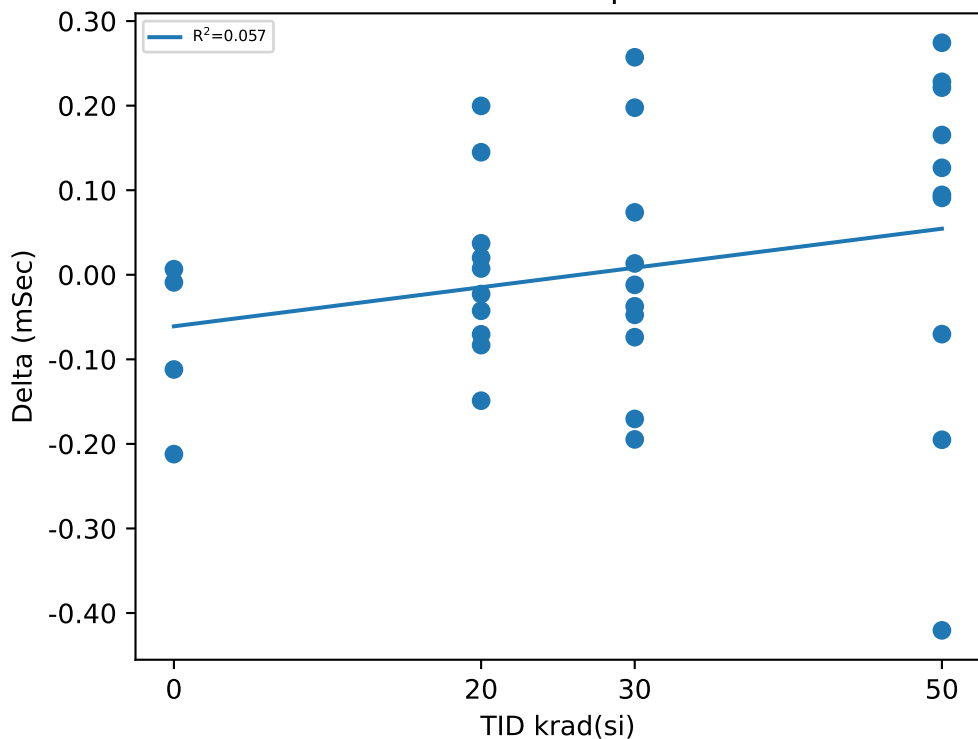
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.262 | 12.534 | 12.78 | 0.21566 | 12.15 | 12.453 | 12.786 | 0.26382 | -0.2121 | -0.081625 | 0.0066 | 0.10166 |
| 20 | 12.122 | 12.446 | 12.738 | 0.1944 | 12.111 | 12.45 | 12.799 | 0.25099 | -0.1489 | 0.00415 | 0.1997 | 0.10485 |
| 30 | 12.272 | 12.473 | 12.651 | 0.12363 | 12.342 | 12.474 | 12.583 | 0.090907 | -0.1947 | 0.00064 | 0.2572 | 0.14415 |
| 50 | 12.259 | 12.493 | 12.756 | 0.15729 | 12.2 | 12.545 | 12.787 | 0.20274 | -0.4205 | 0.05153 | 0.2744 | 0.21861 |

# Device Test: 17.125 DLY_TMR_500KOHM(_DELAY|STEP_UP/EN4/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.451 | 12.424 | -0.0273 |
| 2 | 20 | Bias | 12.507 | 12.658 | 0.1509 |
| 3 | 20 | Bias | 12.244 | 12.164 | -0.0799 |
| 4 | 20 | Bias | 12.774 | 12.797 | 0.0226 |
| 5 | 20 | Bias | 12.628 | 12.631 | 0.0036 |
| 6 | 20 | Unbiased | 12.178 | 12.121 | -0.0566 |
| 7 | 20 | Unbiased | 12.518 | 12.508 | -0.0097 |
| 8 | 20 | Unbiased | 12.498 | 12.442 | -0.0561 |
| 9 | 20 | Unbiased | 12.551 | 12.697 | 0.1459 |
| 10 | 20 | Unbiased | 12.298 | 12.212 | -0.0855 |
| 11 | 30 | Bias | 12.233 | 12.514 | 0.2806 |
| 12 | 30 | Bias | 12.323 | 12.427 | 0.1045 |
| 13 | 30 | Bias | 12.563 | 12.472 | -0.0909 |
| 14 | 30 | Bias | 12.322 | 12.582 | 0.2606 |
| 15 | 30 | Bias | 12.561 | 12.392 | -0.1692 |
| 16 | 30 | Unbiased | 12.585 | 12.538 | -0.0473 |
| 17 | 30 | Unbiased | 12.646 | 12.604 | -0.0423 |
| 18 | 30 | Unbiased | 12.345 | 12.537 | 0.1921 |
| 19 | 30 | Unbiased | 12.387 | 12.486 | 0.0998 |
| 20 | 30 | Unbiased | 12.498 | 12.364 | -0.1346 |
| 21 | 50 | Bias | 12.142 | 12.502 | 0.3603 |
| 22 | 50 | Bias | 12.269 | 12.319 | 0.0496 |
| 23 | 50 | Bias | 12.77 | 12.328 | -0.4417 |
| 24 | 50 | Bias | 12.429 | 12.589 | 0.1599 |
| 25 | 50 | Bias | 12.674 | 12.593 | -0.081 |
| 26 | 50 | Unbiased | 12.501 | 12.774 | 0.2726 |
| 27 | 50 | Unbiased | 12.47 | 12.426 | -0.0445 |
| 28 | 50 | Unbiased | 12.664 | 12.617 | -0.0472 |
| 29 | 50 | Unbiased | 12.737 | 12.787 | 0.0501 |
| 30 | 50 | Unbiased | 12.53 | 12.609 | 0.0793 |
| 31 | 0 | Correlation | 12.51 | 12.486 | -0.0238 |
| 32 | 0 | Correlation | 12.267 | 12.262 | -0.0057 |
| 33 | 0 | Correlation | 12.606 | 12.786 | 0.1798 |
| 34 | 0 | Correlation | 12.594 | 12.514 | -0.0797 |

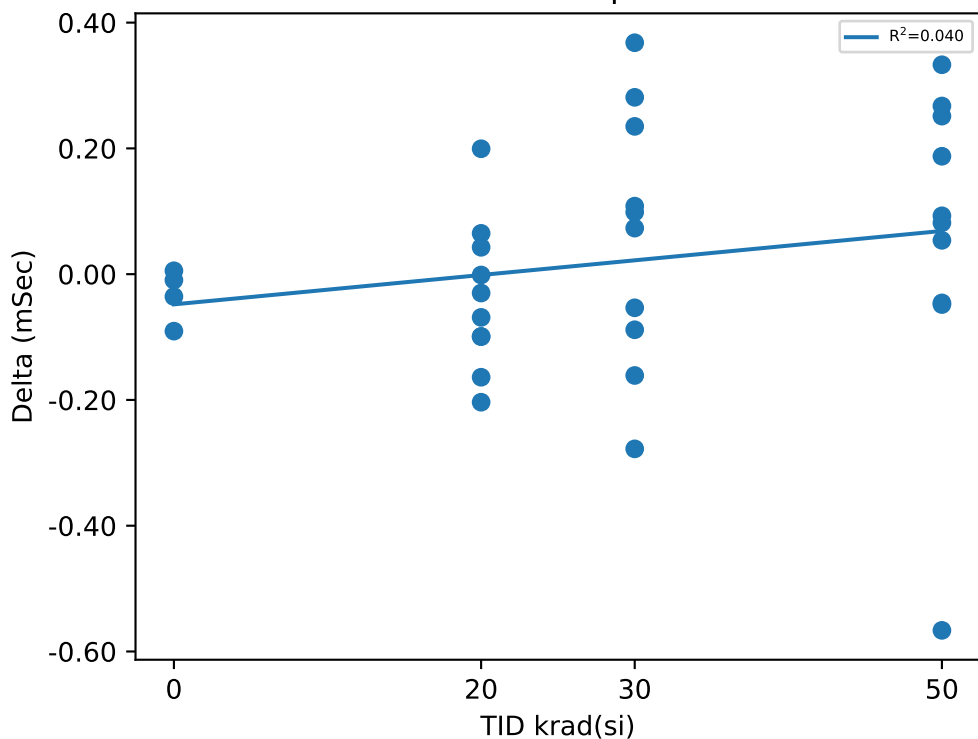## Test Statistics (mSec)
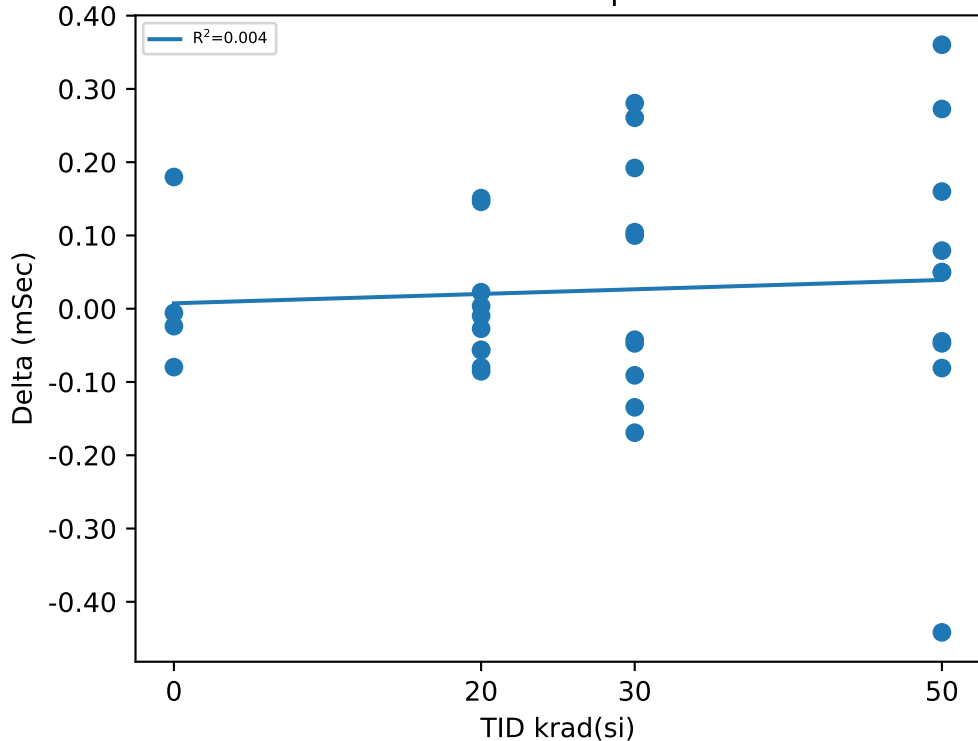
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.267 | 12.494 | 12.606 | 0.1573 | 12.262 | 12.512 | 12.786 | 0.21481 | -0.0797 | 0.01765 | 0.1798 | 0.1126 |
| 20 | 12.178 | 12.465 | 12.774 | 0.1808 | 12.121 | 12.465 | 12.797 | 0.23686 | -0.0855 | 0.00079 | 0.1509 | 0.085284 |
| 30 | 12.233 | 12.446 | 12.646 | 0.14104 | 12.364 | 12.492 | 12.604 | 0.079047 | -0.1692 | 0.04533 | 0.2806 | 0.16429 |
| 50 | 12.142 | 12.519 | 12.77 | 0.2029 | 12.319 | 12.554 | 12.787 | 0.16246 | -0.4417 | 0.03574 | 0.3603 | 0.21961 |
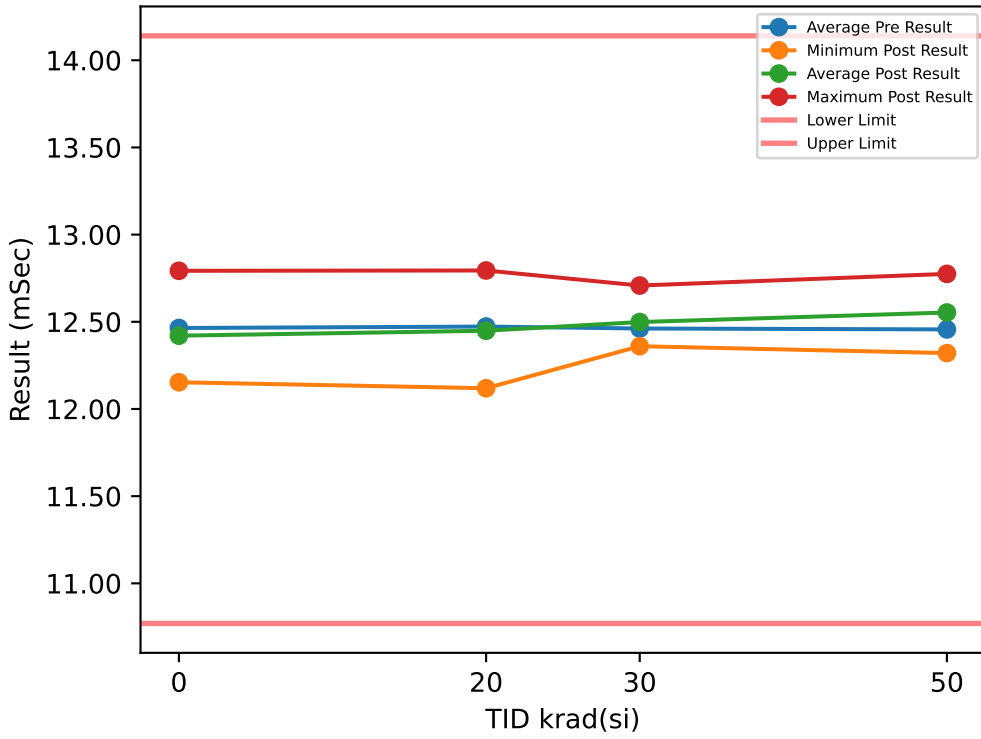
# Device Test: 17.126 DLY_TMR_500KOHM(_DELAY|STEP_UP/SEQ_DONE/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

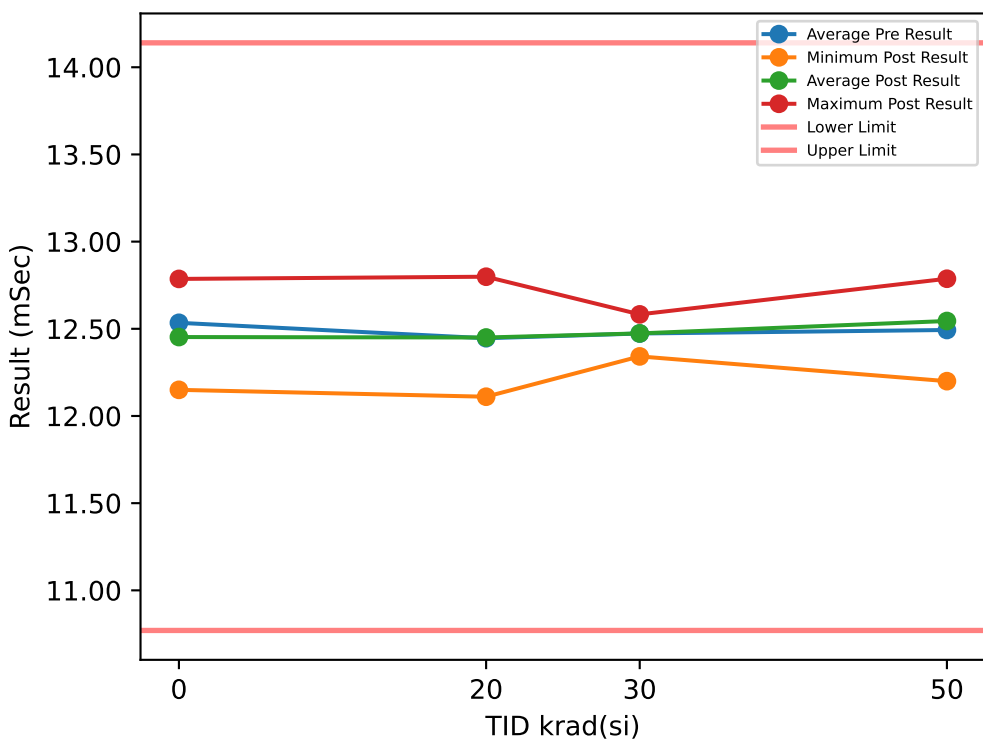| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.447 | 12.416 | -0.0307 |
| 2 | 20 | Bias | 12.704 | 12.643 | -0.0607 |
| 3 | 20 | Bias | 12.134 | 12.166 | 0.0324 |
| 4 | 20 | Bias | 12.772 | 12.794 | 0.0227 |
| 5 | 20 | Bias | 12.621 | 12.487 | -0.1341 |
| 6 | 20 | Unbiased | 12.312 | 12.119 | -0.1933 |
| 7 | 20 | Unbiased | 12.53 | 12.498 | -0.0322 |
| 8 | 20 | Unbiased | 12.472 | 12.425 | -0.0477 |
| 9 | 20 | Unbiased | 12.552 | 12.731 | 0.179 |
| 10 | 20 | Unbiased | 12.184 | 12.208 | 0.0245 |
| 11 | 30 | Bias | 12.224 | 12.513 | 0.2887 |
| 12 | 30 | Bias | 12.458 | 12.439 | -0.0191 |
| 13 | 30 | Bias | 12.565 | 12.496 | -0.0686 |
| 14 | 30 | Bias | 12.21 | 12.565 | 0.3545 |
| 15 | 30 | Bias | 12.534 | 12.393 | -0.1419 |
| 16 | 30 | Unbiased | 12.592 | 12.424 | -0.1676 |
| 17 | 30 | Unbiased | 12.666 | 12.604 | -0.0612 |
| 18 | 30 | Unbiased | 12.466 | 12.708 | 0.2423 |
| 19 | 30 | Unbiased | 12.389 | 12.483 | 0.094 |
| 20 | 30 | Unbiased | 12.511 | 12.36 | -0.1512 |
| 21 | 50 | Bias | 12.141 | 12.505 | 0.3638 |
| 22 | 50 | Bias | 12.148 | 12.321 | 0.1726 |
| 23 | 50 | Bias | 12.778 | 12.335 | -0.4431 |
| 24 | 50 | Bias | 12.298 | 12.591 | 0.293 |
| 25 | 50 | Bias | 12.48 | 12.708 | 0.2277 |
| 26 | 50 | Unbiased | 12.503 | 12.775 | 0.2717 |
| 27 | 50 | Unbiased | 12.466 | 12.428 | -0.0378 |
| 28 | 50 | Unbiased | 12.658 | 12.615 | -0.0425 |
| 29 | 50 | Unbiased | 12.562 | 12.77 | 0.2083 |
| 30 | 50 | Unbiased | 12.53 | 12.485 | -0.0446 |
| 31 | 0 | Correlation | 12.511 | 12.351 | -0.1606 |
| 32 | 0 | Correlation | 12.147 | 12.153 | 0.0058 |
| 33 | 0 | Correlation | 12.608 | 12.793 | 0.184 |
| 34 | 0 | Correlation | 12.591 | 12.386 | -0.2053 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.147 | 12.464 | 12.608 | 0.21558 | 12.153 | 12.42 | 12.793 | 0.26829 | -0.2053 | -0.044025 | 0.184 | 0.17708 |
| 20 | 12.134 | 12.473 | 12.772 | 0.21062 | 12.119 | 12.449 | 12.794 | 0.23307 | -0.1933 | -0.02401 | 0.179 | 0.10096 |
| 30 | 12.21 | 12.462 | 12.666 | 0.14972 | 12.36 | 12.499 | 12.708 | 0.10511 | -0.1676 | 0.03699 | 0.3545 | 0.19516 |
| 50 | 12.141 | 12.456 | 12.778 | 0.20637 | 12.321 | 12.553 | 12.775 | 0.16661 | -0.4431 | 0.09691 | 0.3638 | 0.24145 |
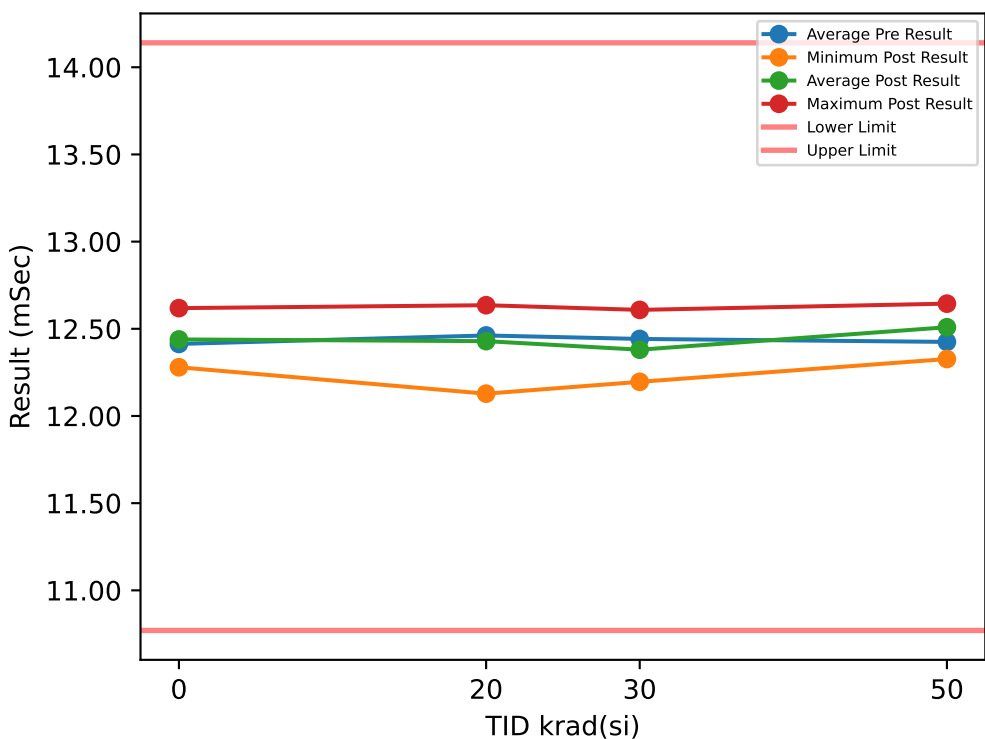
# Device Test: 17.127 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN1/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

## TID vs Post - Pre Exposure Delta

- R²=0.044

## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

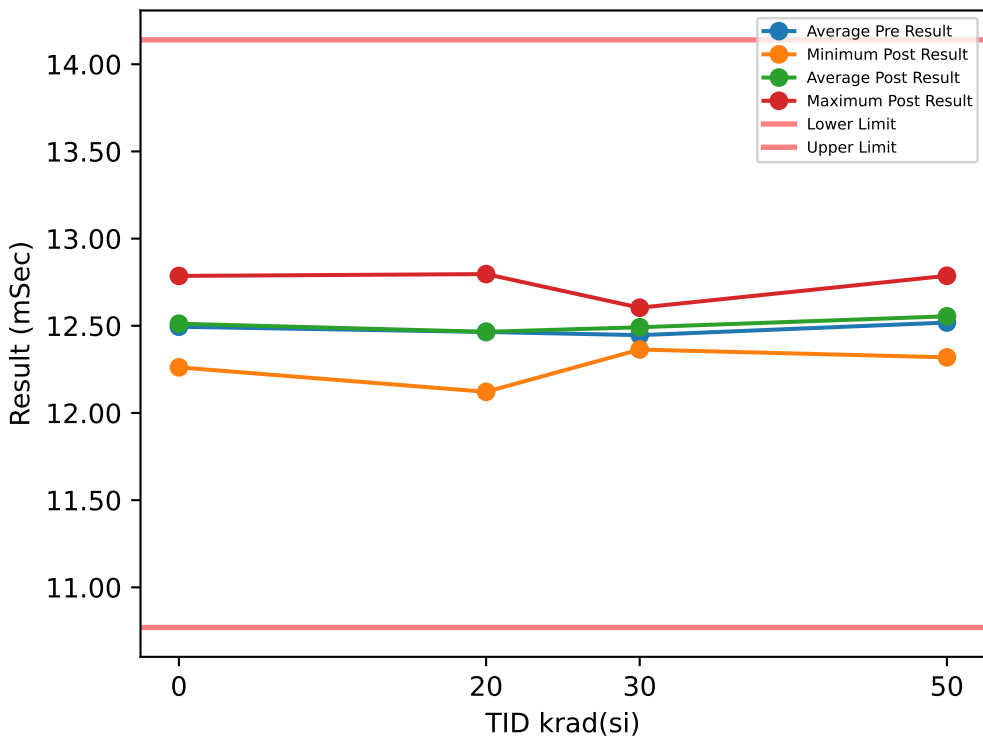| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.284 | 12.447 | 0.1632 |
| 2 | 20 | Bias | 12.7 | 12.495 | -0.2047 |
| 3 | 20 | Bias | 12.252 | 12.168 | -0.0843 |
| 4 | 20 | Bias | 12.62 | 12.621 | 0.0016 |
| 5 | 20 | Bias | 12.534 | 12.635 | 0.1013 |
| 6 | 20 | Unbiased | 12.33 | 12.128 | -0.2017 |
| 7 | 20 | Unbiased | 12.53 | 12.53 | -0.0002 |
| 8 | 20 | Unbiased | 12.494 | 12.369 | -0.1249 |
| 9 | 20 | Unbiased | 12.577 | 12.559 | -0.018 |
| 10 | 20 | Unbiased | 12.298 | 12.339 | 0.0413 |
| 11 | 30 | Bias | 12.378 | 12.336 | -0.0418 |
| 12 | 30 | Bias | 12.48 | 12.269 | -0.2107 |
| 13 | 30 | Bias | 12.386 | 12.493 | 0.1073 |
| 14 | 30 | Bias | 12.347 | 12.409 | 0.0617 |
| 15 | 30 | Bias | 12.565 | 12.223 | -0.3423 |
| 16 | 30 | Unbiased | 12.429 | 12.391 | -0.0378 |
| 17 | 30 | Unbiased | 12.491 | 12.608 | 0.1173 |
| 18 | 30 | Unbiased | 12.49 | 12.558 | 0.0682 |
| 19 | 30 | Unbiased | 12.415 | 12.316 | -0.099 |
| 20 | 30 | Unbiased | 12.437 | 12.196 | -0.2413 |
| 21 | 50 | Bias | 12.283 | 12.36 | 0.0769 |
| 22 | 50 | Bias | 12.296 | 12.327 | 0.0303 |
| 23 | 50 | Bias | 12.615 | 12.353 | -0.2623 |
| 24 | 50 | Bias | 12.266 | 12.602 | 0.336 |
| 25 | 50 | Bias | 12.514 | 12.558 | 0.0439 |
| 26 | 50 | Unbiased | 12.524 | 12.598 | 0.0743 |
| 27 | 50 | Unbiased | 12.328 | 12.436 | 0.1079 |
| 28 | 50 | Unbiased | 12.479 | 12.609 | 0.1293 |
| 29 | 50 | Unbiased | 12.588 | 12.602 | 0.0139 |
| 30 | 50 | Unbiased | 12.354 | 12.644 | 0.2901 |
| 31 | 0 | Correlation | 12.334 | 12.514 | 0.1796 |
| 32 | 0 | Correlation | 12.269 | 12.279 | 0.0106 |
| 33 | 0 | Correlation | 12.625 | 12.619 | -0.0064 |
| 34 | 0 | Correlation | 12.424 | 12.344 | -0.0801 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.269 | 12.413 | 12.625 | 0.15497 | 12.279 | 12.439 | 12.619 | 0.15529 | -0.0801 | 0.025925 | 0.1796 | 0.10975 |
| 20 | 12.252 | 12.462 | 12.7 | 0.15843 | 12.128 | 12.429 | 12.635 | 0.17694 | -0.2047 | -0.03264 | 0.1632 | 0.12182 |
| 30 | 12.347 | 12.442 | 12.565 | 0.065425 | 12.196 | 12.38 | 12.608 | 0.13926 | -0.3423 | -0.06184 | 0.1173 | 0.15925 |
| 50 | 12.266 | 12.425 | 12.615 | 0.13325 | 12.327 | 12.509 | 12.644 | 0.12521 | -0.2623 | 0.08403 | 0.336 | 0.16264 |
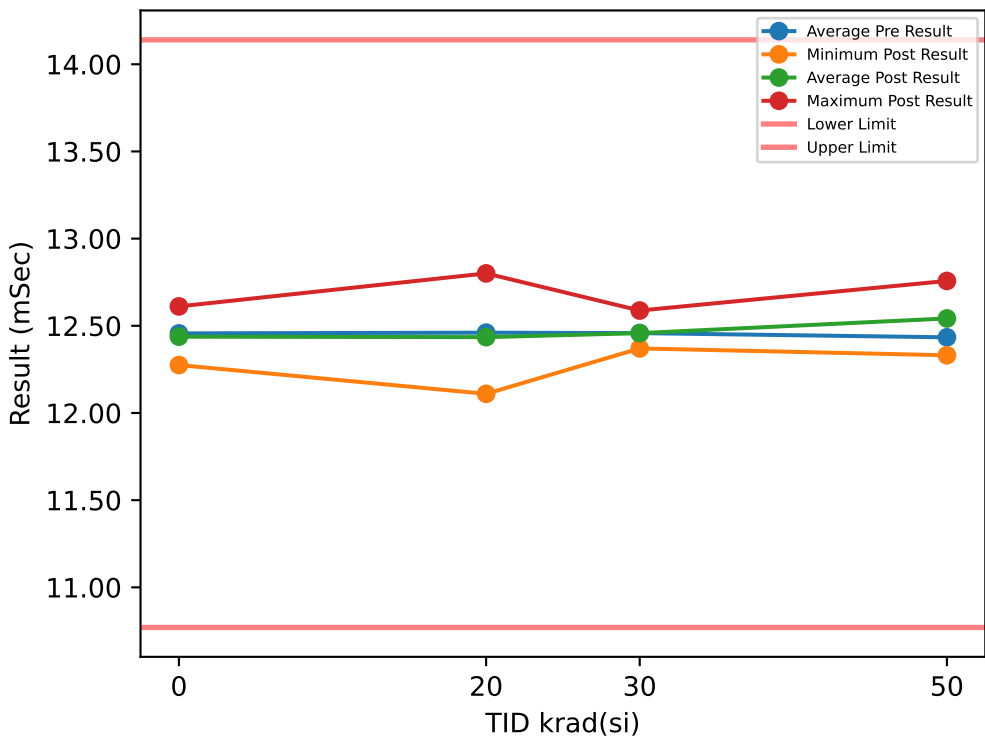
# Device Test: 17.128 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN2/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 12.46 | 12.412 | -0.0481 |
| 2 | 20 | Bias | 12.521 | 12.48 | -0.0404 |
| 3 | 20 | Bias | 12.256 | 12.179 | -0.077 |
| 4 | 20 | Bias | 12.608 | 12.8 | 0.1925 |
| 5 | 20 | Bias | 12.625 | 12.643 | 0.0182 |
| 6 | 20 | Unbiased | 12.326 | 12.11 | -0.216 |
| 7 | 20 | Unbiased | 12.527 | 12.518 | -0.0085 |
| 8 | 20 | Unbiased | 12.414 | 12.448 | 0.034 |
| 9 | 20 | Unbiased | 12.558 | 12.545 | -0.013 |
| 10 | 20 | Unbiased | 12.311 | 12.213 | -0.0983 |
| 11 | 30 | Bias | 12.242 | 12.524 | 0.2828 |
| 12 | 30 | Bias | 12.333 | 12.449 | 0.1158 |
| 13 | 30 | Bias | 12.569 | 12.482 | -0.0868 |
| 14 | 30 | Bias | 12.327 | 12.397 | 0.0695 |
| 15 | 30 | Bias | 12.573 | 12.37 | -0.2025 |
| 16 | 30 | Unbiased | 12.513 | 12.375 | -0.1381 |
| 17 | 30 | Unbiased | 12.662 | 12.588 | -0.0748 |
| 18 | 30 | Unbiased | 12.47 | 12.549 | 0.0784 |
| 19 | 30 | Unbiased | 12.385 | 12.472 | 0.0866 |
| 20 | 30 | Unbiased | 12.506 | 12.374 | -0.1324 |
| 21 | 50 | Bias | 12.158 | 12.537 | 0.3786 |
| 22 | 50 | Bias | 12.264 | 12.331 | 0.0666 |
| 23 | 50 | Bias | 12.602 | 12.345 | -0.2566 |
| 24 | 50 | Bias | 12.44 | 12.592 | 0.152 |
| 25 | 50 | Bias | 12.489 | 12.581 | 0.0925 |
| 26 | 50 | Unbiased | 12.514 | 12.757 | 0.2437 |
| 27 | 50 | Unbiased | 12.476 | 12.439 | -0.0371 |
| 28 | 50 | Unbiased | 12.476 | 12.597 | 0.1208 |
| 29 | 50 | Unbiased | 12.576 | 12.609 | 0.0332 |
| 30 | 50 | Unbiased | 12.344 | 12.633 | 0.2884 |
| 31 | 0 | Correlation | 12.522 | 12.364 | -0.1572 |
| 32 | 0 | Correlation | 12.281 | 12.275 | -0.0058 |
| 33 | 0 | Correlation | 12.614 | 12.611 | -0.003 |
| 34 | 0 | Correlation | 12.409 | 12.5 | 0.0906 |

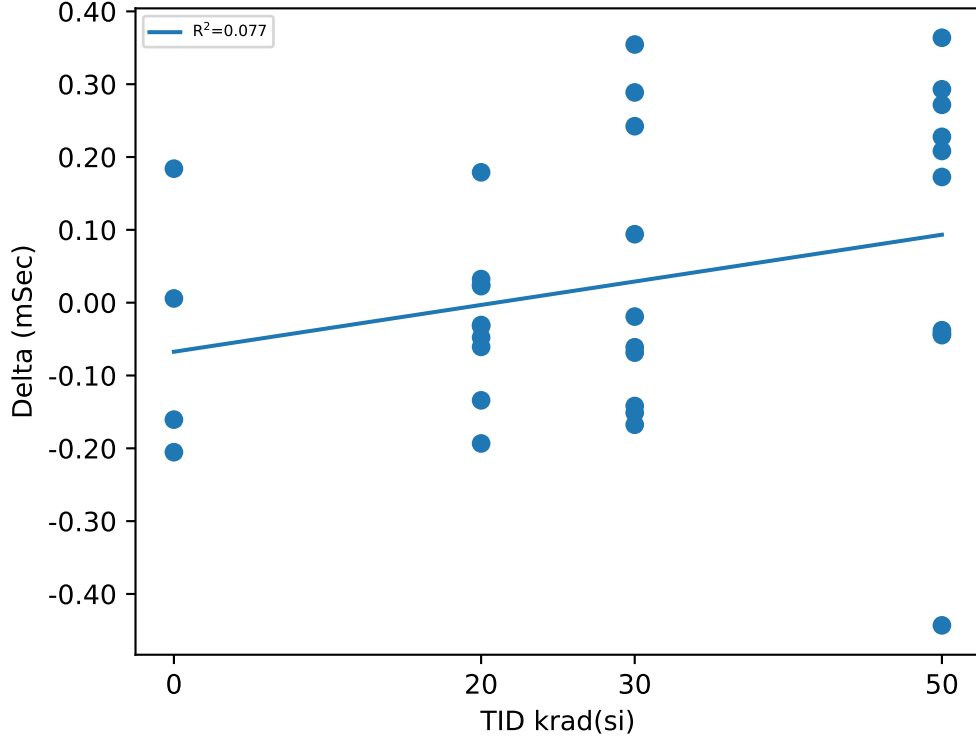## Test Statistics (mSec)
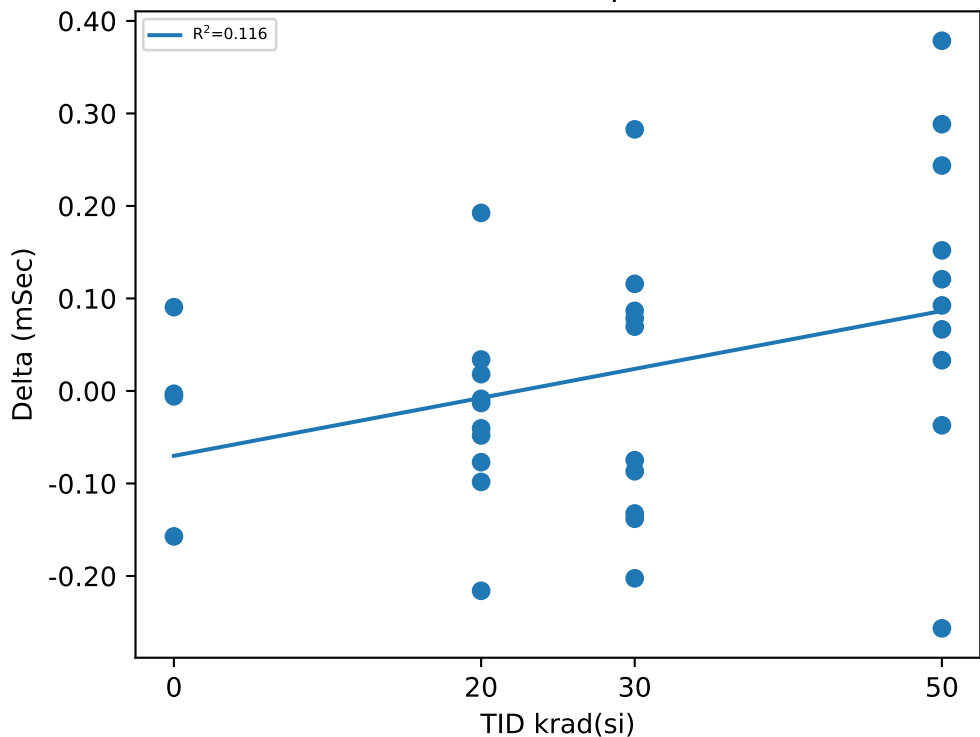
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 12.281 | 12.457 | 12.614 | 0.14405 | 12.275 | 12.438 | 12.611 | 0.14822 | -0.1572 | -0.01885 | 0.0906 | 0.10254 |
| 20 | 12.256 | 12.461 | 12.625 | 0.1294 | 12.11 | 12.435 | 12.8 | 0.21583 | -0.216 | -0.02566 | 0.1925 | 0.10456 |
| 30 | 12.242 | 12.458 | 12.662 | 0.13236 | 12.37 | 12.458 | 12.588 | 0.078598 | -0.2025 | -0.00015 | 0.2828 | 0.15004 |
| 50 | 12.158 | 12.434 | 12.602 | 0.13905 | 12.331 | 12.542 | 12.757 | 0.1333 | -0.2566 | 0.10821 | 0.3786 | 0.17883 |
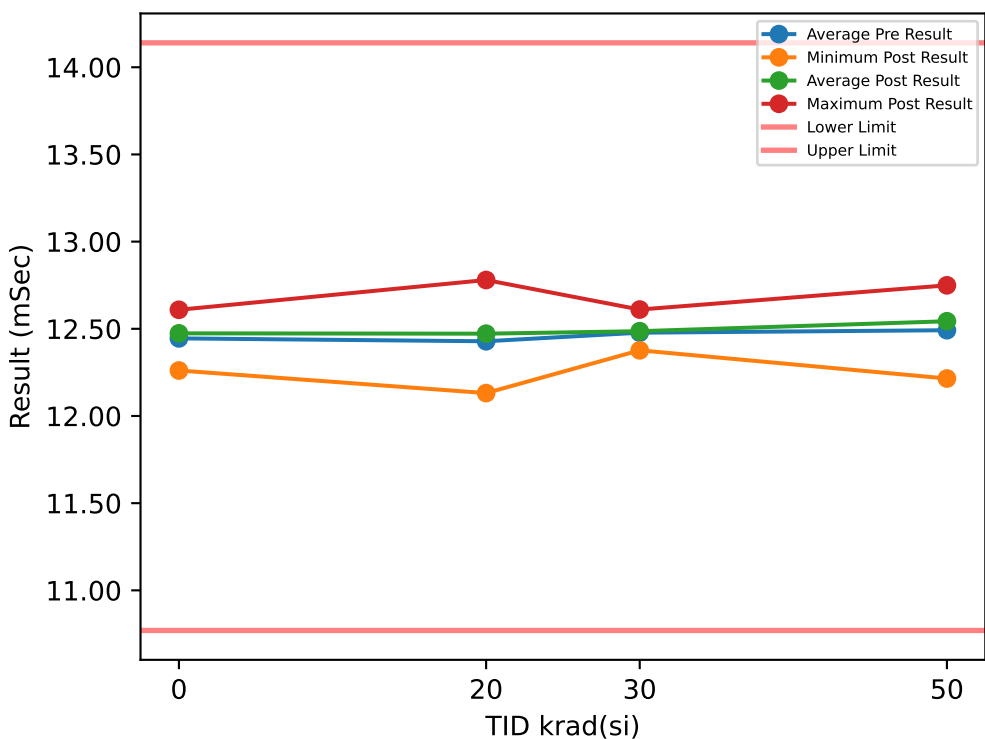
# Device Test: 17.129 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN3/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.464 | 12.437 | -0.0271 |
| 2 | 20 | Bias | 12.517 | 12.663 | 0.1454 |
| 3 | 20 | Bias | 12.237 | 12.179 | -0.0579 |
| 4 | 20 | Bias | 12.61 | 12.78 | 0.1695 |
| 5 | 20 | Bias | 12.445 | 12.644 | 0.1982 |
| 6 | 20 | Unbiased | 12.295 | 12.131 | -0.1639 |
| 7 | 20 | Unbiased | 12.345 | 12.51 | 0.1643 |
| 8 | 20 | Unbiased | 12.505 | 12.453 | -0.0516 |
| 9 | 20 | Unbiased | 12.562 | 12.725 | 0.163 |
| 10 | 20 | Unbiased | 12.305 | 12.2 | -0.1051 |
| 11 | 30 | Bias | 12.366 | 12.504 | 0.1383 |
| 12 | 30 | Bias | 12.469 | 12.451 | -0.0179 |
| 13 | 30 | Bias | 12.553 | 12.506 | -0.047 |
| 14 | 30 | Bias | 12.334 | 12.396 | 0.0615 |
| 15 | 30 | Bias | 12.573 | 12.402 | -0.1705 |
| 16 | 30 | Unbiased | 12.607 | 12.57 | -0.0376 |
| 17 | 30 | Unbiased | 12.478 | 12.61 | 0.1326 |
| 18 | 30 | Unbiased | 12.475 | 12.548 | 0.073 |
| 19 | 30 | Unbiased | 12.401 | 12.499 | 0.0984 |
| 20 | 30 | Unbiased | 12.521 | 12.377 | -0.1446 |
| 21 | 50 | Bias | 12.145 | 12.541 | 0.3954 |
| 22 | 50 | Bias | 12.283 | 12.307 | 0.024 |
| 23 | 50 | Bias | 12.779 | 12.215 | -0.564 |
| 24 | 50 | Bias | 12.44 | 12.602 | 0.1613 |
| 25 | 50 | Bias | 12.492 | 12.741 | 0.2487 |
| 26 | 50 | Unbiased | 12.512 | 12.749 | 0.237 |
| 27 | 50 | Unbiased | 12.51 | 12.433 | -0.0764 |
| 28 | 50 | Unbiased | 12.473 | 12.617 | 0.1435 |
| 29 | 50 | Unbiased | 12.751 | 12.609 | -0.142 |
| 30 | 50 | Unbiased | 12.533 | 12.62 | 0.087 |
| 31 | 0 | Correlation | 12.495 | 12.499 | 0.0041 |
| 32 | 0 | Correlation | 12.259 | 12.261 | 0.0016 |
| 33 | 0 | Correlation | 12.617 | 12.609 | -0.0085 |
| 34 | 0 | Correlation | 12.409 | 12.527 | 0.1182 |

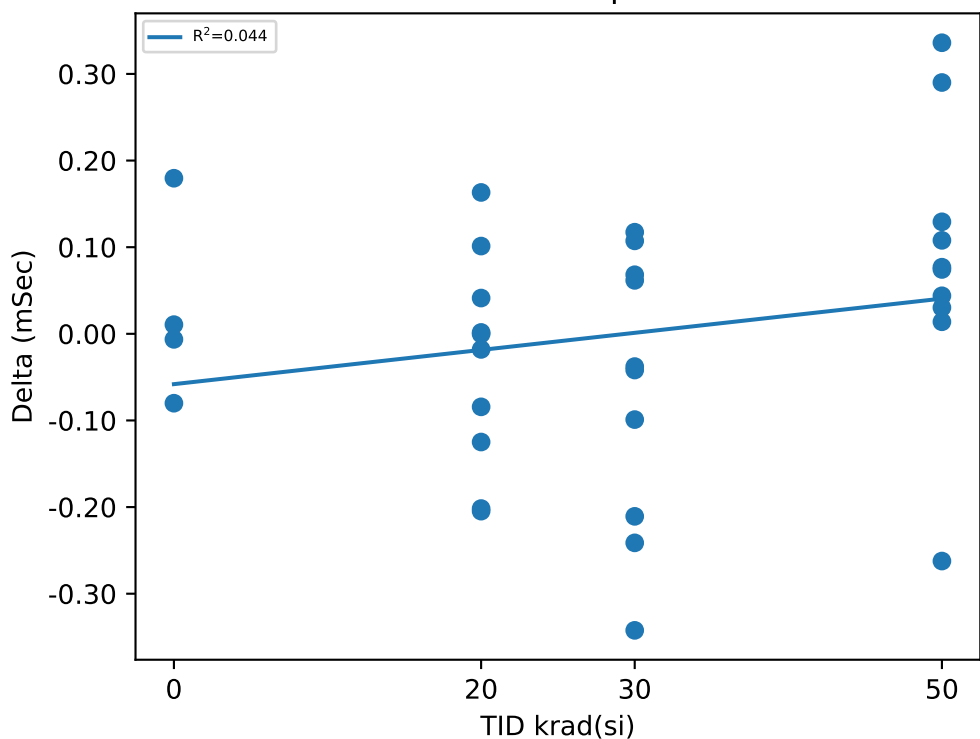## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.259 | 12.445 | 12.617 | 0.15062 | 12.261 | 12.474 | 12.609 | 0.14949 | -0.0085 | 0.02885 | 0.1182 | 0.059815 |
| 20 | 12.237 | 12.429 | 12.61 | 0.12595 | 12.131 | 12.472 | 12.78 | 0.23657 | -0.1639 | 0.04348 | 0.1982 | 0.13682 |
| 30 | 12.334 | 12.478 | 12.607 | 0.089763 | 12.377 | 12.486 | 12.61 | 0.078608 | -0.1705 | 0.00862 | 0.1383 | 0.10989 |
| 50 | 12.145 | 12.492 | 12.779 | 0.18816 | 12.215 | 12.543 | 12.749 | 0.17521 | -0.564 | 0.05145 | 0.3954 | 0.26807 |

# Device Test: 17.13  TPD_EN(_DELAY|STEP_UP/EN1/1.6/14/0/0/0/@TPD_EN )
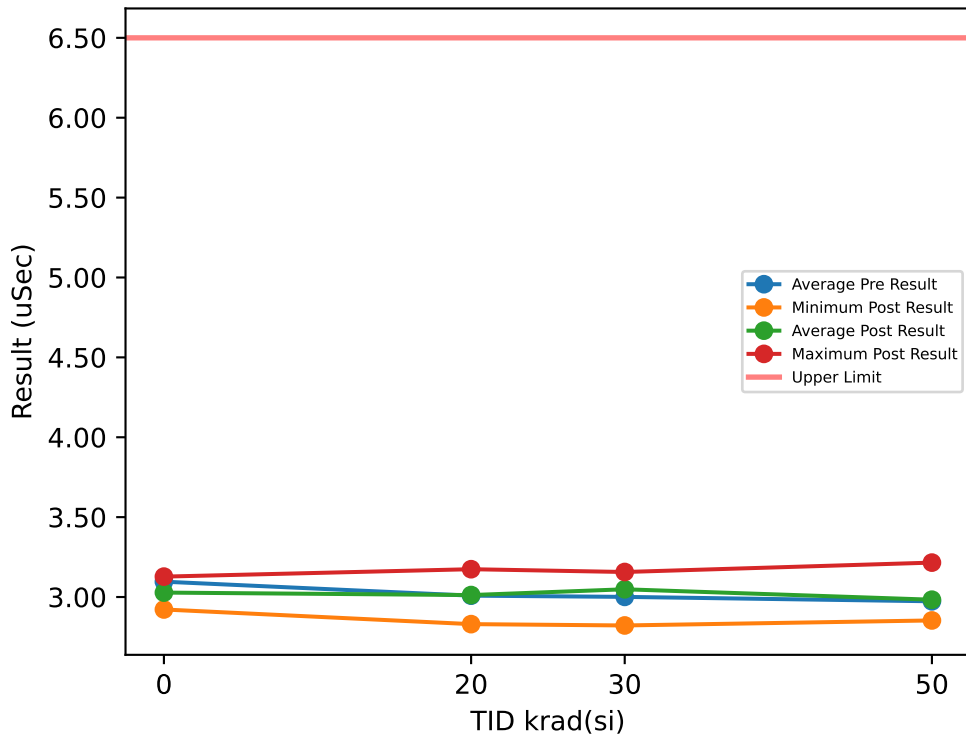
## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.1528 | 2.9959 | -0.1569 |
| 2 | 20 | Bias | 2.9745 | 3.1605 | 0.186 |
| 3 | 20 | Bias | 3.3206 | 3.113 | -0.2076 |
| 4 | 20 | Bias | 3.0051 | 3.0524 | 0.0473 |
| 5 | 20 | Bias | 2.9877 | 3.1741 | 0.1864 |
| 6 | 20 | Unbiased | 2.8575 | 2.8314 | -0.0261 |
| 7 | 20 | Unbiased | 3.0124 | 2.9386 | -0.0738 |
| 8 | 20 | Unbiased | 3.0143 | 3.1119 | 0.0976 |
| 9 | 20 | Unbiased | 2.8357 | 2.9146 | 0.0789 |
| 10 | 20 | Unbiased | 2.9241 | 2.8303 | -0.0938 |
| 11 | 30 | Bias | 2.9552 | 3.1152 | 0.16 |
| 12 | 30 | Bias | 2.8312 | 3.1566 | 0.3254 |
| 13 | 30 | Bias | 3.0664 | 3.0628 | -0.0036 |
| 14 | 30 | Bias | 3.0354 | 2.822 | -0.2134 |
| 15 | 30 | Bias | 2.9951 | 3.0027 | 0.0076 |
| 16 | 30 | Unbiased | 2.8491 | 3.0111 | 0.162 |
| 17 | 30 | Unbiased | 3.1045 | 3.1195 | 0.015 |
| 18 | 30 | Unbiased | 3.0043 | 2.9832 | -0.0211 |
| 19 | 30 | Unbiased | 3.0419 | 3.112 | 0.0701 |
| 20 | 30 | Unbiased | 3.1256 | 3.0993 | -0.0263 |
| 21 | 50 | Bias | 3.0634 | 2.8872 | -0.1762 |
| 22 | 50 | Bias | 2.7525 | 2.8551 | 0.1026 |
| 23 | 50 | Bias | 2.726 | 2.9678 | 0.2418 |
| 24 | 50 | Bias | 3.0561 | 2.9539 | -0.1022 |
| 25 | 50 | Bias | 3.0958 | 3.0889 | -0.0069 |
| 26 | 50 | Unbiased | 2.9225 | 3.0091 | 0.0866 |
| 27 | 50 | Unbiased | 2.946 | 3.2154 | 0.2694 |
| 28 | 50 | Unbiased | 3.2006 | 2.8534 | -0.3472 |
| 29 | 50 | Unbiased | 3.0287 | 3.0051 | -0.0236 |
| 30 | 50 | Unbiased | 2.9412 | 2.9965 | 0.0553 |
| 31 | 0 | Correlation | 3.1131 | 2.922 | -0.1911 |
| 32 | 0 | Correlation | 3.0354 | 3.1277 | 0.0923 |
| 33 | 0 | Correlation | 3.0214 | 3.1004 | 0.079 |
| 34 | 0 | Correlation | 3.2143 | 2.9609 | -0.2534 |

## Test Statistics (uSec)
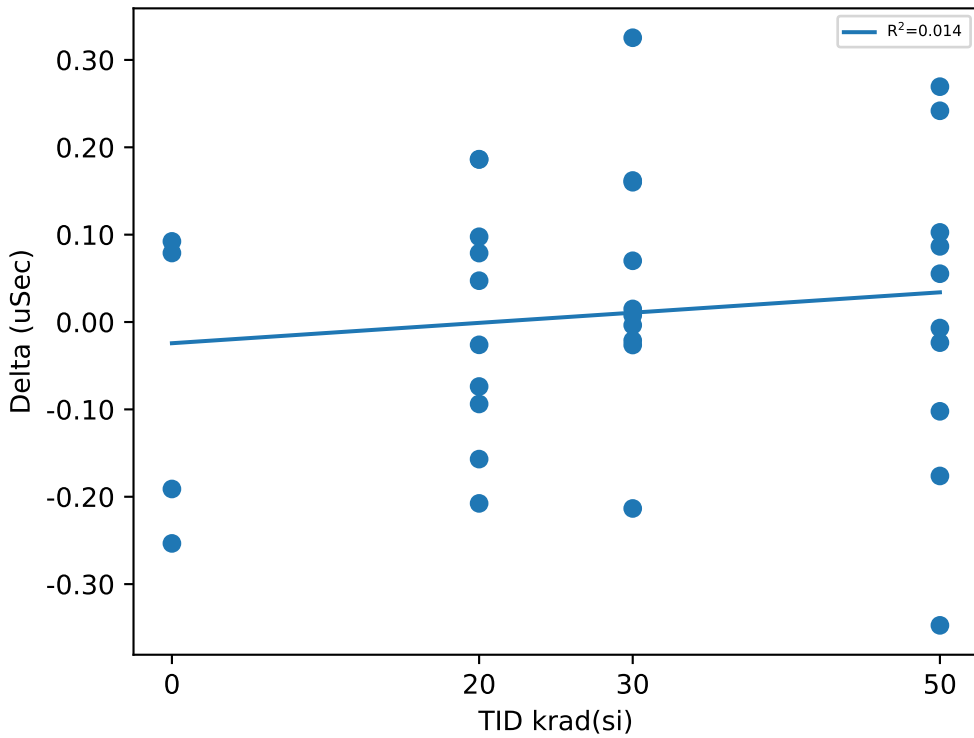
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0214 | 3.096 | 3.2143 | 0.088553 | 2.922 | 3.0278 | 3.1277 | 0.10152 | -0.2534 | -0.0683 | 0.0923 | 0.17966 |
| 20 | 2.8357 | 3.0085 | 3.3206 | 0.14129 | 2.8303 | 3.0123 | 3.1741 | 0.12949 | -0.2076 | 0.0038 | 0.1864 | 0.13737 |
| 30 | 2.8312 | 3.0009 | 3.1256 | 0.098556 | 2.822 | 3.0484 | 3.1566 | 0.098351 | -0.2134 | 0.04757 | 0.3254 | 0.14414 |
| 50 | 2.726 | 2.9733 | 3.2006 | 0.14869 | 2.8534 | 2.9832 | 3.2154 | 0.11055 | -0.3472 | 0.00996 | 0.2694 | 0.18672 |
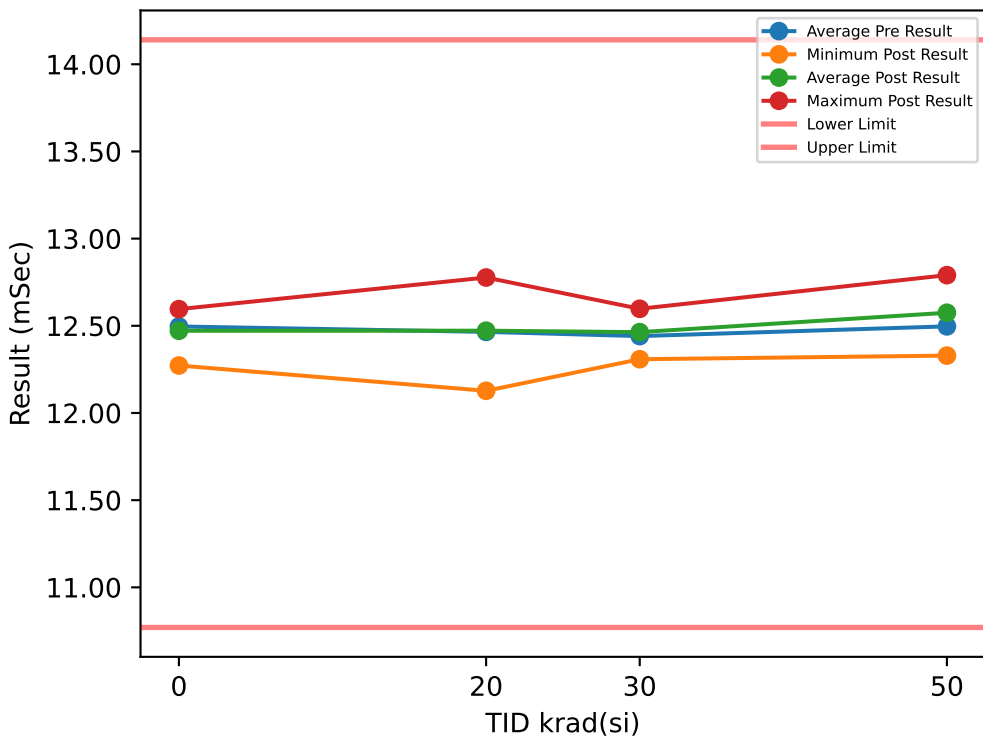
# Device Test: 17.130 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN4/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 12.44 | 12.436 | -0.0031 |
| 2 | 20 | Bias | 12.513 | 12.578 | 0.065 |
| 3 | 20 | Bias | 12.246 | 12.168 | -0.0783 |
| 4 | 20 | Bias | 12.606 | 12.777 | 0.1709 |
| 5 | 20 | Bias | 12.613 | 12.641 | 0.0281 |
| 6 | 20 | Unbiased | 12.321 | 12.127 | -0.1941 |
| 7 | 20 | Unbiased | 12.536 | 12.49 | -0.0455 |
| 8 | 20 | Unbiased | 12.508 | 12.45 | -0.0578 |
| 9 | 20 | Unbiased | 12.561 | 12.73 | 0.1692 |
| 10 | 20 | Unbiased | 12.309 | 12.322 | 0.0132 |
| 11 | 30 | Bias | 12.214 | 12.504 | 0.2898 |
| 12 | 30 | Bias | 12.459 | 12.308 | -0.1507 |
| 13 | 30 | Bias | 12.551 | 12.49 | -0.0605 |
| 14 | 30 | Bias | 12.197 | 12.393 | 0.1961 |
| 15 | 30 | Bias | 12.562 | 12.376 | -0.1861 |
| 16 | 30 | Unbiased | 12.607 | 12.56 | -0.0465 |
| 17 | 30 | Unbiased | 12.475 | 12.598 | 0.1228 |
| 18 | 30 | Unbiased | 12.452 | 12.542 | 0.0897 |
| 19 | 30 | Unbiased | 12.382 | 12.496 | 0.1144 |
| 20 | 30 | Unbiased | 12.51 | 12.368 | -0.1425 |
| 21 | 50 | Bias | 12.268 | 12.54 | 0.2717 |
| 22 | 50 | Bias | 12.28 | 12.329 | 0.0494 |
| 23 | 50 | Bias | 12.767 | 12.337 | -0.4302 |
| 24 | 50 | Bias | 12.411 | 12.598 | 0.187 |
| 25 | 50 | Bias | 12.49 | 12.712 | 0.2224 |
| 26 | 50 | Unbiased | 12.691 | 12.772 | 0.0816 |
| 27 | 50 | Unbiased | 12.484 | 12.435 | -0.049 |
| 28 | 50 | Unbiased | 12.474 | 12.623 | 0.1488 |
| 29 | 50 | Unbiased | 12.568 | 12.79 | 0.2227 |
| 30 | 50 | Unbiased | 12.536 | 12.611 | 0.0753 |
| 31 | 0 | Correlation | 12.52 | 12.497 | -0.0223 |
| 32 | 0 | Correlation | 12.279 | 12.272 | -0.0066 |
| 33 | 0 | Correlation | 12.781 | 12.596 | -0.1854 |
| 34 | 0 | Correlation | 12.405 | 12.521 | 0.116 |

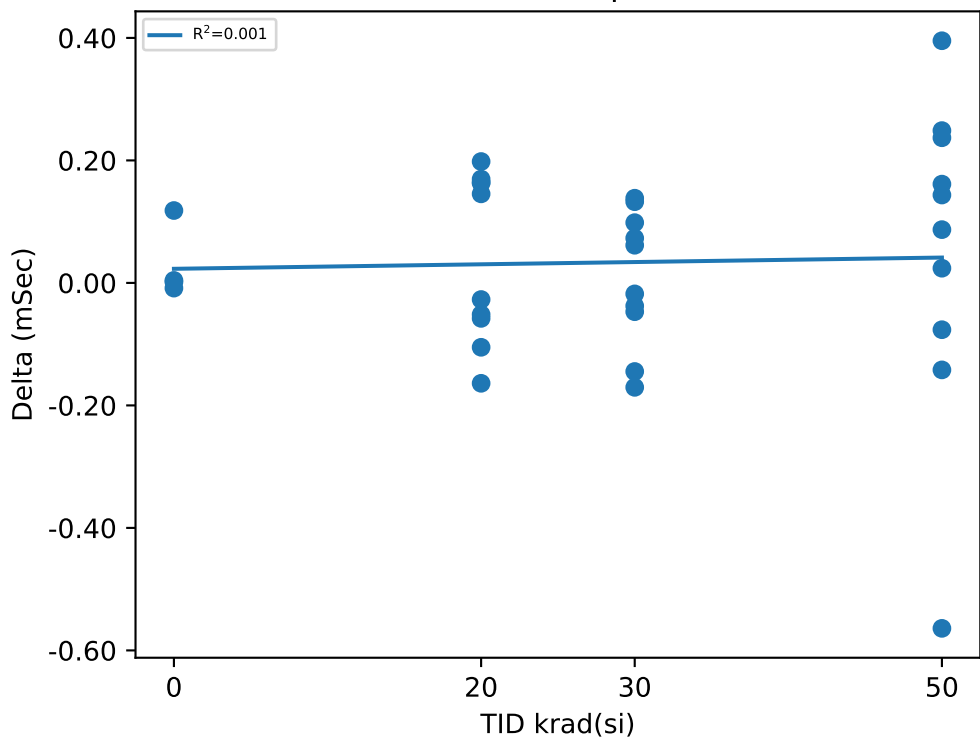## Test Statistics (mSec)
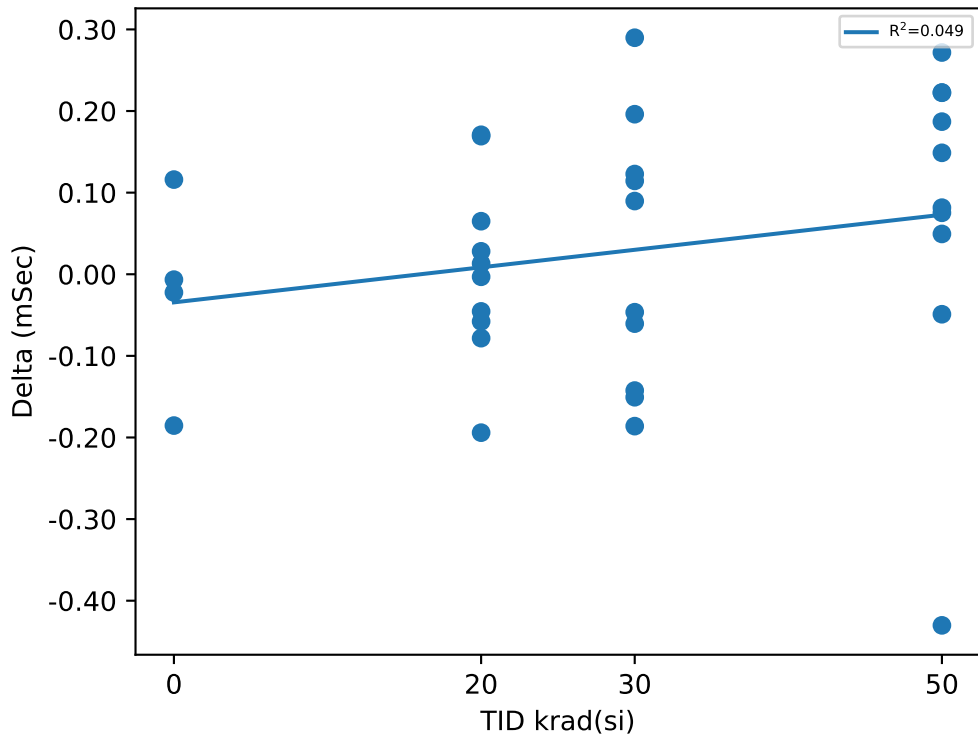
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 12.279 | 12.496 | 12.781 | 0.21381 | 12.272 | 12.472 | 12.596 | 0.13932 | -0.1854 | -0.024575 | 0.116 | 0.12377 |
| 20 | 12.246 | 12.465 | 12.613 | 0.13061 | 12.127 | 12.472 | 12.777 | 0.21989 | -0.1941 | 0.00676 | 0.1709 | 0.11145 |
| 30 | 12.197 | 12.441 | 12.607 | 0.13947 | 12.308 | 12.464 | 12.598 | 0.095791 | -0.1861 | 0.02265 | 0.2898 | 0.16227 |
| 50 | 12.268 | 12.497 | 12.767 | 0.15805 | 12.329 | 12.575 | 12.79 | 0.16548 | -0.4302 | 0.07797 | 0.2717 | 0.20315 |
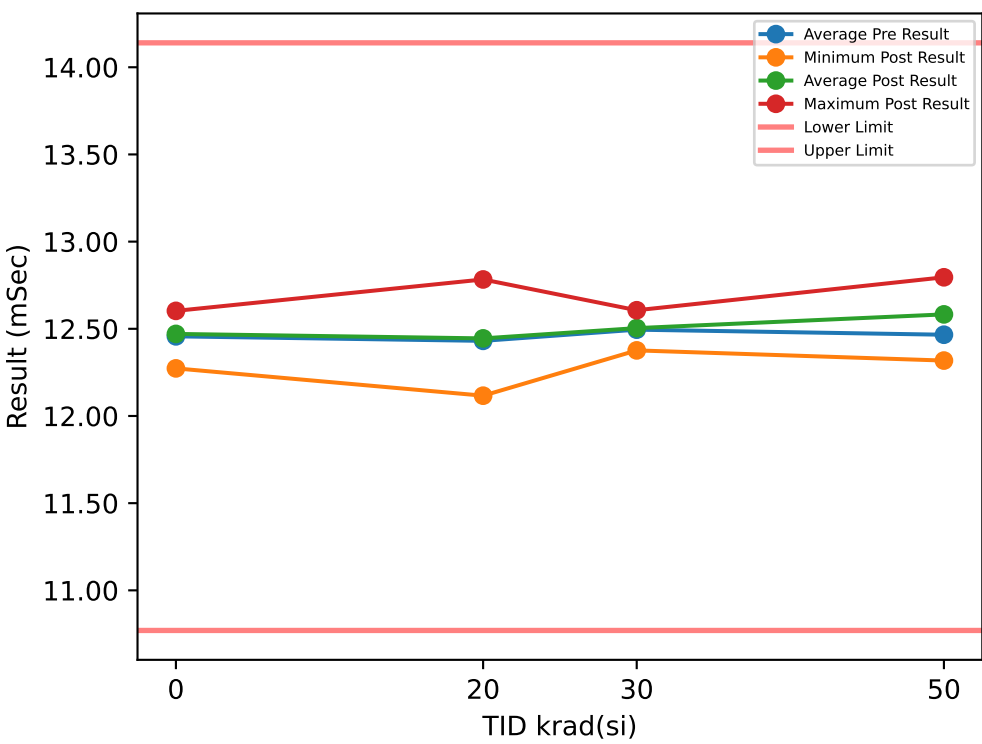
# Device Test: 17.131 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/SEQ_DONE/7/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.466 | 12.423 | -0.0437 |
| 2 | 20 | Bias | 12.521 | 12.481 | -0.0397 |
| 3 | 20 | Bias | 12.256 | 12.178 | -0.0773 |
| 4 | 20 | Bias | 12.605 | 12.783 | 0.1781 |
| 5 | 20 | Bias | 12.439 | 12.636 | 0.1965 |
| 6 | 20 | Unbiased | 12.322 | 12.116 | -0.206 |
| 7 | 20 | Unbiased | 12.346 | 12.519 | 0.1726 |
| 8 | 20 | Unbiased | 12.509 | 12.452 | -0.0574 |
| 9 | 20 | Unbiased | 12.549 | 12.548 | -0.0006 |
| 10 | 20 | Unbiased | 12.295 | 12.314 | 0.019 |
| 11 | 30 | Bias | 12.362 | 12.523 | 0.1612 |
| 12 | 30 | Bias | 12.47 | 12.451 | -0.0189 |
| 13 | 30 | Bias | 12.575 | 12.507 | -0.068 |
| 14 | 30 | Bias | 12.335 | 12.588 | 0.2529 |
| 15 | 30 | Bias | 12.573 | 12.403 | -0.1693 |
| 16 | 30 | Unbiased | 12.612 | 12.544 | -0.0682 |
| 17 | 30 | Unbiased | 12.659 | 12.606 | -0.0521 |
| 18 | 30 | Unbiased | 12.46 | 12.548 | 0.0886 |
| 19 | 30 | Unbiased | 12.4 | 12.492 | 0.0919 |
| 20 | 30 | Unbiased | 12.505 | 12.376 | -0.1288 |
| 21 | 50 | Bias | 12.153 | 12.542 | 0.3888 |
| 22 | 50 | Bias | 12.156 | 12.326 | 0.1697 |
| 23 | 50 | Bias | 12.595 | 12.344 | -0.251 |
| 24 | 50 | Bias | 12.439 | 12.776 | 0.3366 |
| 25 | 50 | Bias | 12.659 | 12.735 | 0.0767 |
| 26 | 50 | Unbiased | 12.513 | 12.762 | 0.2495 |
| 27 | 50 | Unbiased | 12.474 | 12.318 | -0.1565 |
| 28 | 50 | Unbiased | 12.654 | 12.595 | -0.0591 |
| 29 | 50 | Unbiased | 12.574 | 12.795 | 0.2211 |
| 30 | 50 | Unbiased | 12.442 | 12.632 | 0.1907 |
| 31 | 0 | Correlation | 12.521 | 12.487 | -0.0337 |
| 32 | 0 | Correlation | 12.28 | 12.273 | -0.0068 |
| 33 | 0 | Correlation | 12.618 | 12.603 | -0.0153 |
| 34 | 0 | Correlation | 12.408 | 12.52 | 0.1115 |

## Test Statistics (mSec)
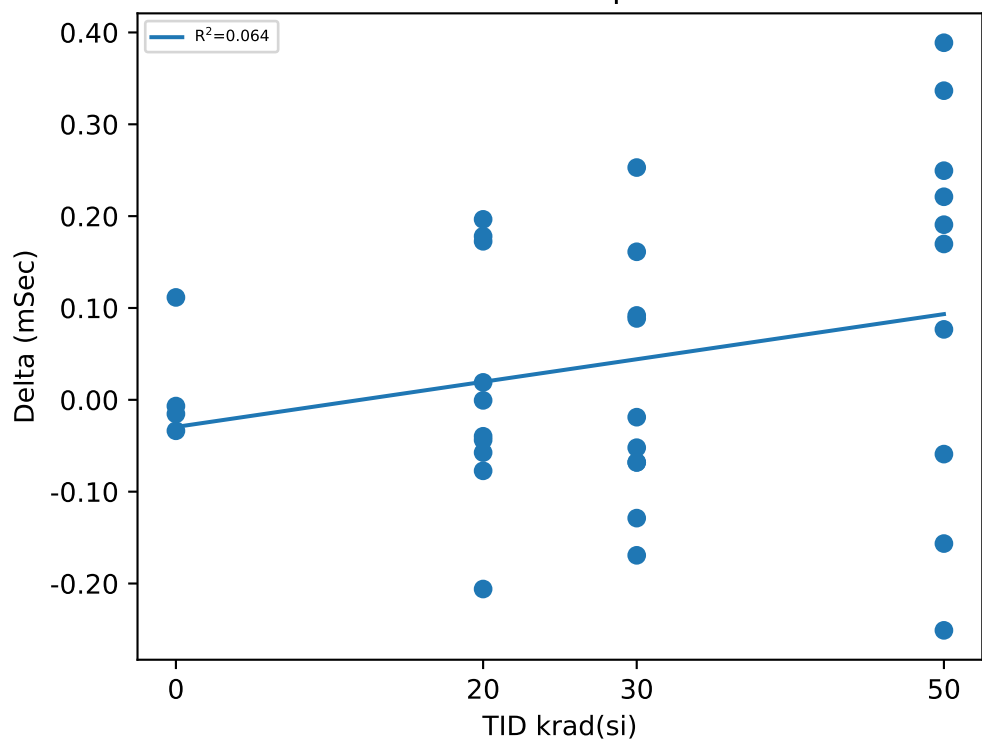
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.28 | 12.457 | 12.618 | 0.14585 | 12.273 | 12.471 | 12.603 | 0.14049 | -0.0337 | 0.013925 | 0.1115 | 0.066012 |
| 20 | 12.256 | 12.431 | 12.605 | 0.1191 | 12.116 | 12.445 | 12.783 | 0.20128 | -0.206 | 0.01415 | 0.1965 | 0.13067 |
| 30 | 12.335 | 12.495 | 12.659 | 0.10912 | 12.376 | 12.504 | 12.606 | 0.075153 | -0.1693 | 0.00893 | 0.2529 | 0.13459 |
| 50 | 12.153 | 12.466 | 12.659 | 0.18199 | 12.318 | 12.583 | 12.795 | 0.19298 | -0.251 | 0.11665 | 0.3888 | 0.21123 |

# Device Test: 17.132 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN1/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.374 | 23.07 | -0.3037 |
| 2 | 20 | Bias | 23.759 | 23.726 | -0.033 |
| 3 | 20 | Bias | 22.803 | 23.147 | 0.3442 |
| 4 | 20 | Bias | 24.206 | 24.049 | -0.1568 |
| 5 | 20 | Bias | 23.909 | 23.707 | -0.2017 |
| 6 | 20 | Unbiased | 23.388 | 23.206 | -0.1815 |
| 7 | 20 | Unbiased | 23.382 | 23.411 | 0.0298 |
| 8 | 20 | Unbiased | 23.558 | 23.453 | -0.1045 |
| 9 | 20 | Unbiased | 24.185 | 23.904 | -0.2814 |
| 10 | 20 | Unbiased | 23.24 | 23.302 | 0.0616 |
| 11 | 30 | Bias | 23.204 | 23.647 | 0.4435 |
| 12 | 30 | Bias | 23.308 | 23.351 | 0.0427 |
| 13 | 30 | Bias | 23.48 | 23.328 | -0.1514 |
| 14 | 30 | Bias | 23.229 | 23.77 | 0.5406 |
| 15 | 30 | Bias | 23.41 | 23.026 | -0.3841 |
| 16 | 30 | Unbiased | 23.881 | 23.76 | -0.1212 |
| 17 | 30 | Unbiased | 23.992 | 23.629 | -0.363 |
| 18 | 30 | Unbiased | 23.343 | 23.816 | 0.4737 |
| 19 | 30 | Unbiased | 23.287 | 23.587 | 0.2997 |
| 20 | 30 | Unbiased | 23.426 | 23.287 | -0.1394 |
| 21 | 50 | Bias | 23.059 | 23.43 | 0.3716 |
| 22 | 50 | Bias | 23.376 | 23.168 | -0.2081 |
| 23 | 50 | Bias | 24.184 | 23.465 | -0.719 |
| 24 | 50 | Bias | 23.247 | 23.863 | 0.6159 |
| 25 | 50 | Bias | 23.512 | 23.699 | 0.1871 |
| 26 | 50 | Unbiased | 23.702 | 23.888 | 0.1861 |
| 27 | 50 | Unbiased | 23.57 | 23.432 | -0.1377 |
| 28 | 50 | Unbiased | 23.644 | 23.957 | 0.3135 |
| 29 | 50 | Unbiased | 24.11 | 23.887 | -0.2231 |
| 30 | 50 | Unbiased | 23.371 | 23.597 | 0.2258 |
| 31 | 0 | Correlation | 23.395 | 23.363 | -0.0316 |
| 32 | 0 | Correlation | 23.095 | 23.352 | 0.2567 |
| 33 | 0 | Correlation | 23.871 | 23.801 | -0.0703 |
| 34 | 0 | Correlation | 23.527 | 23.352 | -0.175 |

## Test Statistics (mSec)
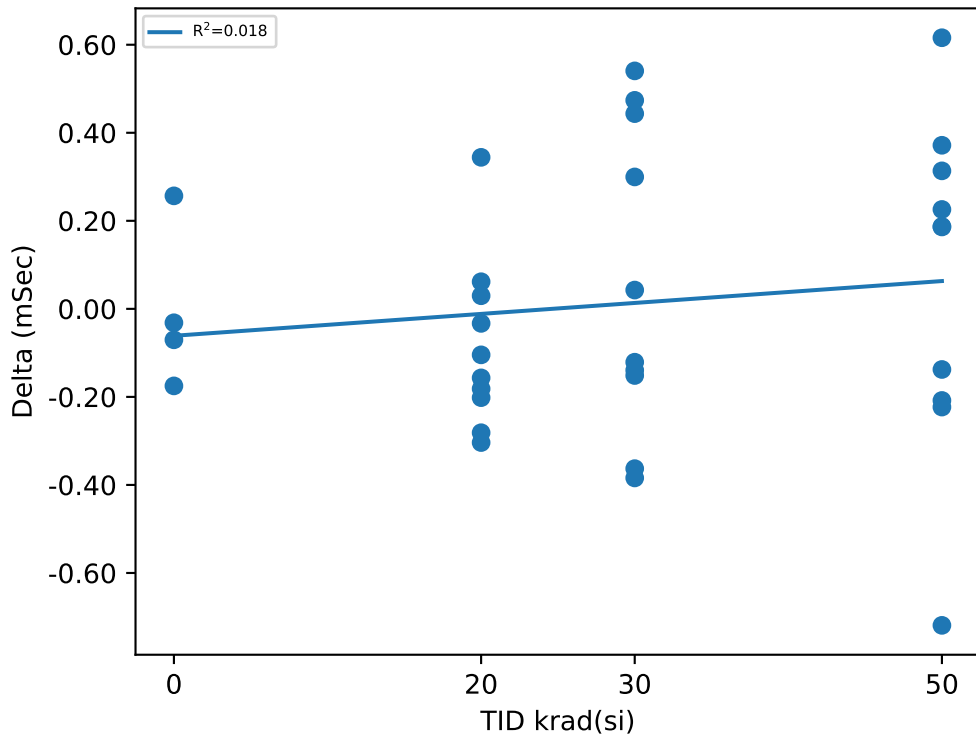
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.095 | 23.472 | 23.871 | 0.32147 | 23.352 | 23.467 | 23.801 | 0.22242 | -0.175 | -0.00505 | 0.2567 | 0.18471 |
| 20 | 22.803 | 23.58 | 24.206 | 0.43919 | 23.07 | 23.498 | 24.049 | 0.33383 | -0.3037 | -0.0827 | 0.3442 | 0.19333 |
| 30 | 23.204 | 23.456 | 23.992 | 0.26873 | 23.026 | 23.52 | 23.816 | 0.25907 | -0.3841 | 0.06411 | 0.5406 | 0.34964 |
| 50 | 23.059 | 23.578 | 24.184 | 0.35547 | 23.168 | 23.639 | 23.957 | 0.26222 | -0.719 | 0.06121 | 0.6159 | 0.38411 |

# Device Test: 17.133 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN2/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

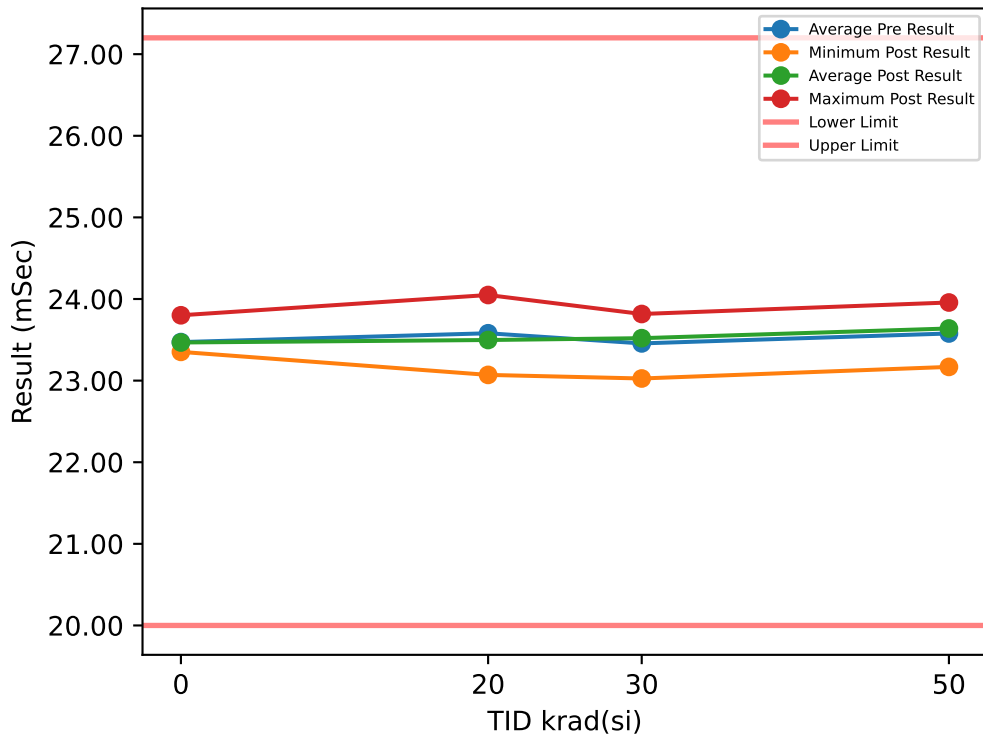| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.112 | 23.028 | -0.084 |
| 2 | 20 | Bias | 23.782 | 23.708 | -0.0749 |
| 3 | 20 | Bias | 22.788 | 23.201 | 0.4126 |
| 4 | 20 | Bias | 24.193 | 24.03 | -0.1638 |
| 5 | 20 | Bias | 23.691 | 23.706 | 0.0142 |
| 6 | 20 | Unbiased | 23.116 | 22.953 | -0.1636 |
| 7 | 20 | Unbiased | 23.394 | 23.376 | -0.0186 |
| 8 | 20 | Unbiased | 23.333 | 23.193 | -0.1403 |
| 9 | 20 | Unbiased | 23.889 | 23.895 | 0.0059 |
| 10 | 20 | Unbiased | 22.902 | 23.299 | 0.3975 |
| 11 | 30 | Bias | 23.221 | 23.381 | 0.1605 |
| 12 | 30 | Bias | 23.313 | 23.375 | 0.0616 |
| 13 | 30 | Bias | 23.465 | 23.364 | -0.101 |
| 14 | 30 | Bias | 22.93 | 23.497 | 0.5666 |
| 15 | 30 | Bias | 23.452 | 23.056 | -0.3959 |
| 16 | 30 | Unbiased | 23.589 | 23.457 | -0.132 |
| 17 | 30 | Unbiased | 23.713 | 23.615 | -0.0978 |
| 18 | 30 | Unbiased | 23.28 | 23.849 | 0.5696 |
| 19 | 30 | Unbiased | 23.322 | 23.329 | 0.0071 |
| 20 | 30 | Unbiased | 23.361 | 23.259 | -0.102 |
| 21 | 50 | Bias | 23.025 | 23.411 | 0.3864 |
| 22 | 50 | Bias | 23.078 | 23.134 | 0.056 |
| 23 | 50 | Bias | 23.938 | 23.208 | -0.7293 |
| 24 | 50 | Bias | 23.169 | 23.926 | 0.7567 |
| 25 | 50 | Bias | 23.545 | 23.682 | 0.1376 |
| 26 | 50 | Unbiased | 23.732 | 23.899 | 0.1667 |
| 27 | 50 | Unbiased | 23.307 | 23.151 | -0.1558 |
| 28 | 50 | Unbiased | 23.672 | 23.648 | -0.0241 |
| 29 | 50 | Unbiased | 23.873 | 23.962 | 0.0881 |
| 30 | 50 | Unbiased | 23.42 | 23.636 | 0.2162 |
| 31 | 0 | Correlation | 23.369 | 23.339 | -0.0296 |
| 32 | 0 | Correlation | 23.1 | 23.075 | -0.0256 |
| 33 | 0 | Correlation | 23.858 | 23.86 | 0.0018 |
| 34 | 0 | Correlation | 23.595 | 23.373 | -0.2219 |

## Test Statistics (mSec)
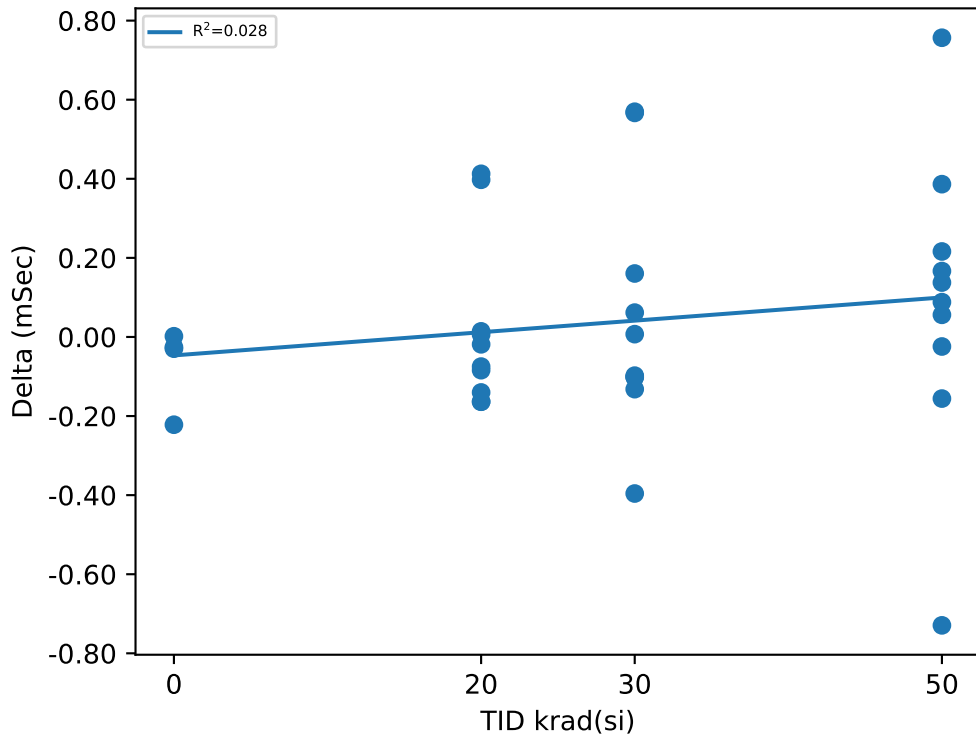
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.1 | 23.481 | 23.858 | 0.32297 | 23.075 | 23.412 | 23.86 | 0.32725 | -0.2219 | -0.068825 | 0.0018 | 0.103 |
| 20 | 22.788 | 23.42 | 24.193 | 0.4578 | 22.953 | 23.439 | 24.03 | 0.37214 | -0.1638 | 0.0185 | 0.4126 | 0.21379 |
| 30 | 22.93 | 23.365 | 23.713 | 0.21365 | 23.056 | 23.418 | 23.849 | 0.2116 | -0.3959 | 0.05367 | 0.5696 | 0.30743 |
| 50 | 23.025 | 23.476 | 23.938 | 0.32796 | 23.134 | 23.566 | 23.962 | 0.32198 | -0.7293 | 0.08985 | 0.7567 | 0.38039 |

# Device Test: 17.134 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN3/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.092 | 23.06 | -0.0321 |
| 2 | 20 | Bias | 23.787 | 23.684 | -0.1021 |
| 3 | 20 | Bias | 22.792 | 23.212 | 0.4201 |
| 4 | 20 | Bias | 24.198 | 24.002 | -0.1961 |
| 5 | 20 | Bias | 23.697 | 23.71 | 0.0128 |
| 6 | 20 | Unbiased | 23.117 | 22.956 | -0.1612 |
| 7 | 20 | Unbiased | 23.412 | 23.377 | -0.0351 |
| 8 | 20 | Unbiased | 23.337 | 23.207 | -0.1303 |
| 9 | 20 | Unbiased | 23.907 | 23.901 | -0.0052 |
| 10 | 20 | Unbiased | 22.91 | 22.968 | 0.0573 |
| 11 | 30 | Bias | 23.218 | 23.348 | 0.1302 |
| 12 | 30 | Bias | 23.317 | 23.41 | 0.0932 |
| 13 | 30 | Bias | 23.473 | 23.381 | -0.0921 |
| 14 | 30 | Bias | 22.938 | 23.472 | 0.5334 |
| 15 | 30 | Bias | 23.474 | 23.054 | -0.4206 |
| 16 | 30 | Unbiased | 23.602 | 23.468 | -0.134 |
| 17 | 30 | Unbiased | 23.717 | 23.63 | -0.0873 |
| 18 | 30 | Unbiased | 23.308 | 23.852 | 0.5432 |
| 19 | 30 | Unbiased | 23.298 | 23.324 | 0.0261 |
| 20 | 30 | Unbiased | 23.402 | 23.257 | -0.1456 |
| 21 | 50 | Bias | 23.015 | 23.384 | 0.3688 |
| 22 | 50 | Bias | 23.07 | 23.134 | 0.0639 |
| 23 | 50 | Bias | 23.941 | 23.218 | -0.7234 |
| 24 | 50 | Bias | 23.214 | 23.916 | 0.7018 |
| 25 | 50 | Bias | 23.561 | 23.687 | 0.1252 |
| 26 | 50 | Unbiased | 23.73 | 23.896 | 0.1668 |
| 27 | 50 | Unbiased | 23.316 | 23.178 | -0.1382 |
| 28 | 50 | Unbiased | 23.678 | 23.643 | -0.0349 |
| 29 | 50 | Unbiased | 23.876 | 23.962 | 0.0861 |
| 30 | 50 | Unbiased | 23.426 | 23.635 | 0.209 |
| 31 | 0 | Correlation | 23.356 | 23.348 | -0.0083 |
| 32 | 0 | Correlation | 23.116 | 23.106 | -0.0097 |
| 33 | 0 | Correlation | 23.85 | 23.865 | 0.0149 |
| 34 | 0 | Correlation | 23.595 | 23.404 | -0.1905 |

## Test Statistics (mSec)
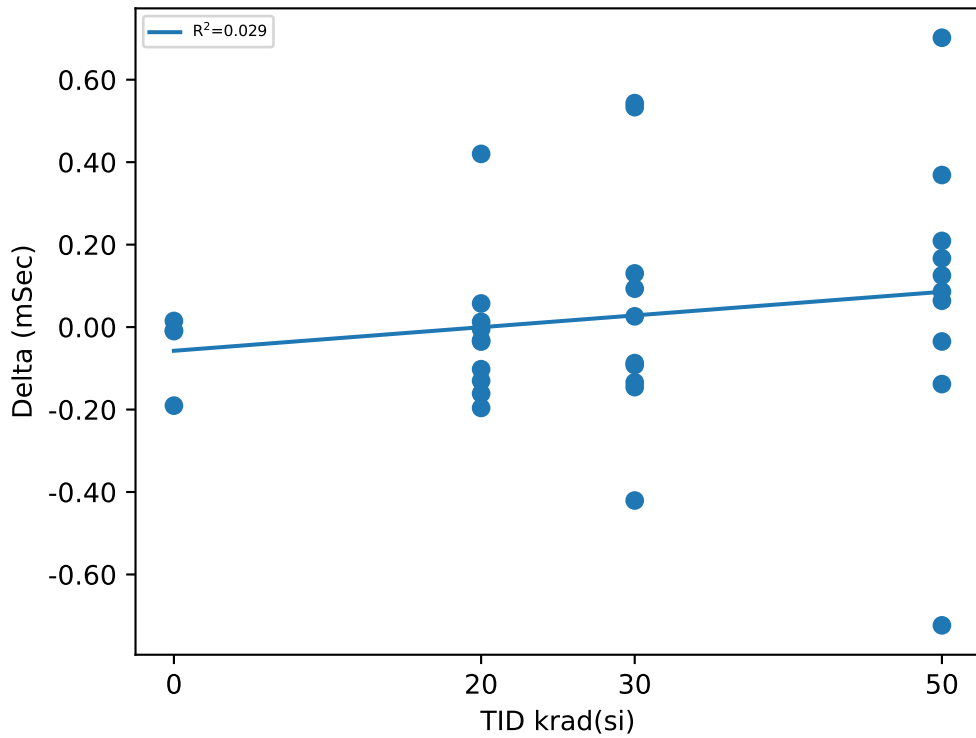
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.116 | 23.479 | 23.85 | 0.31543 | 23.106 | 23.431 | 23.865 | 0.31721 | -0.1905 | -0.0484 | 0.0149 | 0.095403 |
| 20 | 22.792 | 23.425 | 24.198 | 0.46105 | 22.956 | 23.408 | 24.002 | 0.38915 | -0.1961 | -0.01719 | 0.4201 | 0.17356 |
| 30 | 22.938 | 23.375 | 23.717 | 0.21541 | 23.054 | 23.419 | 23.852 | 0.21396 | -0.4206 | 0.04465 | 0.5432 | 0.3015 |
| 50 | 23.015 | 23.483 | 23.941 | 0.3269 | 23.134 | 23.565 | 23.962 | 0.3171 | -0.7234 | 0.08251 | 0.7018 | 0.36557 |

# Device Test: 17.135 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN4/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

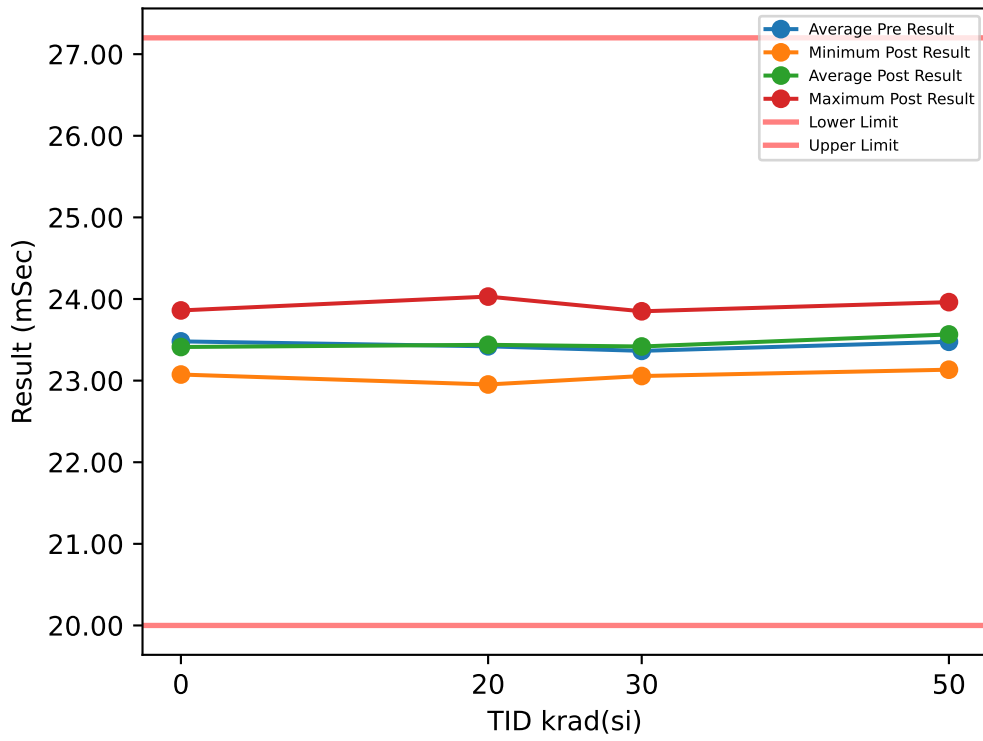| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.109 | 23.056 | -0.0527 |
| 2 | 20 | Bias | 23.755 | 23.681 | -0.0739 |
| 3 | 20 | Bias | 22.764 | 22.87 | 0.1067 |
| 4 | 20 | Bias | 23.978 | 23.996 | 0.018 |
| 5 | 20 | Bias | 23.693 | 23.695 | 0.0017 |
| 6 | 20 | Unbiased | 23.119 | 22.952 | -0.1665 |
| 7 | 20 | Unbiased | 23.394 | 23.377 | -0.0168 |
| 8 | 20 | Unbiased | 23.31 | 23.202 | -0.1085 |
| 9 | 20 | Unbiased | 23.901 | 23.897 | -0.004 |
| 10 | 20 | Unbiased | 22.933 | 22.964 | 0.0303 |
| 11 | 30 | Bias | 23.233 | 23.382 | 0.1483 |
| 12 | 30 | Bias | 23.317 | 23.384 | 0.0672 |
| 13 | 30 | Bias | 23.472 | 23.381 | -0.0913 |
| 14 | 30 | Bias | 22.936 | 23.507 | 0.5714 |
| 15 | 30 | Bias | 23.465 | 23.062 | -0.4023 |
| 16 | 30 | Unbiased | 23.616 | 23.443 | -0.1727 |
| 17 | 30 | Unbiased | 23.713 | 23.628 | -0.0854 |
| 18 | 30 | Unbiased | 23.302 | 23.841 | 0.5393 |
| 19 | 30 | Unbiased | 23.325 | 23.327 | 0.0023 |
| 20 | 30 | Unbiased | 23.375 | 23.263 | -0.1119 |
| 21 | 50 | Bias | 23.353 | 23.414 | 0.0615 |
| 22 | 50 | Bias | 23.075 | 23.134 | 0.0589 |
| 23 | 50 | Bias | 23.939 | 23.213 | -0.7262 |
| 24 | 50 | Bias | 23.198 | 23.891 | 0.693 |
| 25 | 50 | Bias | 23.573 | 23.647 | 0.0744 |
| 26 | 50 | Unbiased | 23.748 | 23.902 | 0.1542 |
| 27 | 50 | Unbiased | 23.288 | 23.174 | -0.1131 |
| 28 | 50 | Unbiased | 23.691 | 23.603 | -0.0873 |
| 29 | 50 | Unbiased | 23.872 | 23.962 | 0.0902 |
| 30 | 50 | Unbiased | 23.389 | 23.648 | 0.2593 |
| 31 | 0 | Correlation | 23.369 | 23.337 | -0.0328 |
| 32 | 0 | Correlation | 23.111 | 23.103 | -0.0074 |
| 33 | 0 | Correlation | 23.871 | 23.861 | -0.0095 |
| 34 | 0 | Correlation | 23.594 | 23.394 | -0.1998 |

## Test Statistics (mSec)
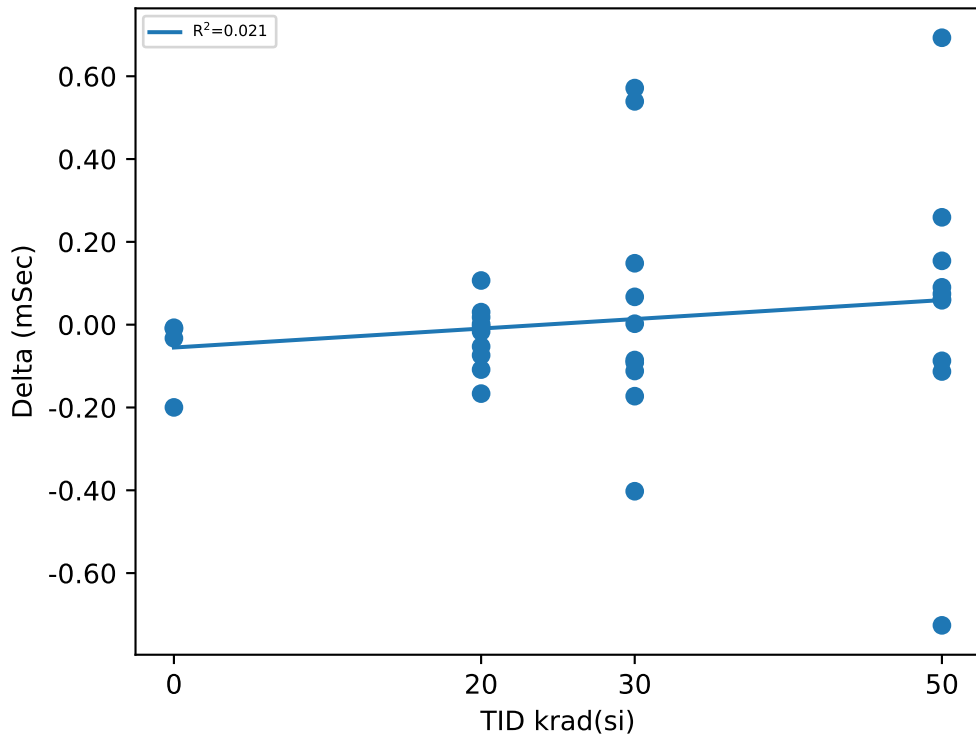
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.111 | 23.486 | 23.871 | 0.32359 | 23.103 | 23.424 | 23.861 | 0.31754 | -0.1998 | -0.062375 | -0.0074 | 0.092337 |
| 20 | 22.764 | 23.396 | 23.978 | 0.42049 | 22.87 | 23.369 | 23.996 | 0.42005 | -0.1665 | -0.02657 | 0.1067 | 0.077173 |
| 30 | 22.936 | 23.375 | 23.713 | 0.21456 | 23.062 | 23.422 | 23.841 | 0.20934 | -0.4023 | 0.04649 | 0.5714 | 0.30588 |
| 50 | 23.075 | 23.513 | 23.939 | 0.295 | 23.134 | 23.559 | 23.962 | 0.3122 | -0.7262 | 0.04649 | 0.693 | 0.35251 |
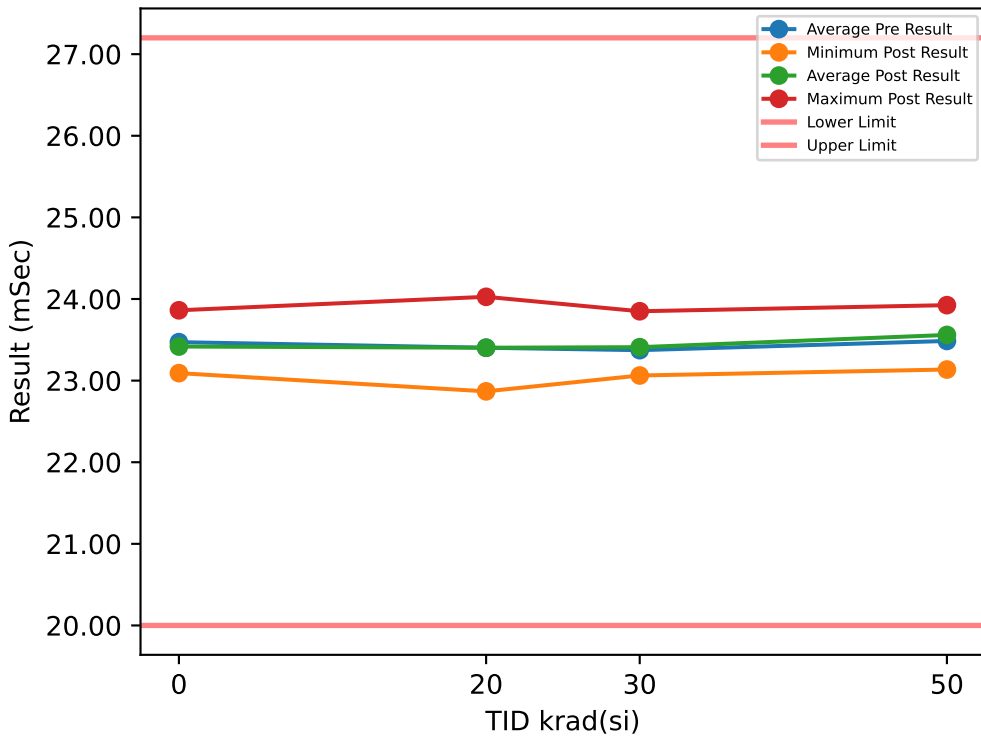
# Device Test: 17.136 DLY_TMR_1MOHM(_DELAY|STEP_UP/SEQ_DONE/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

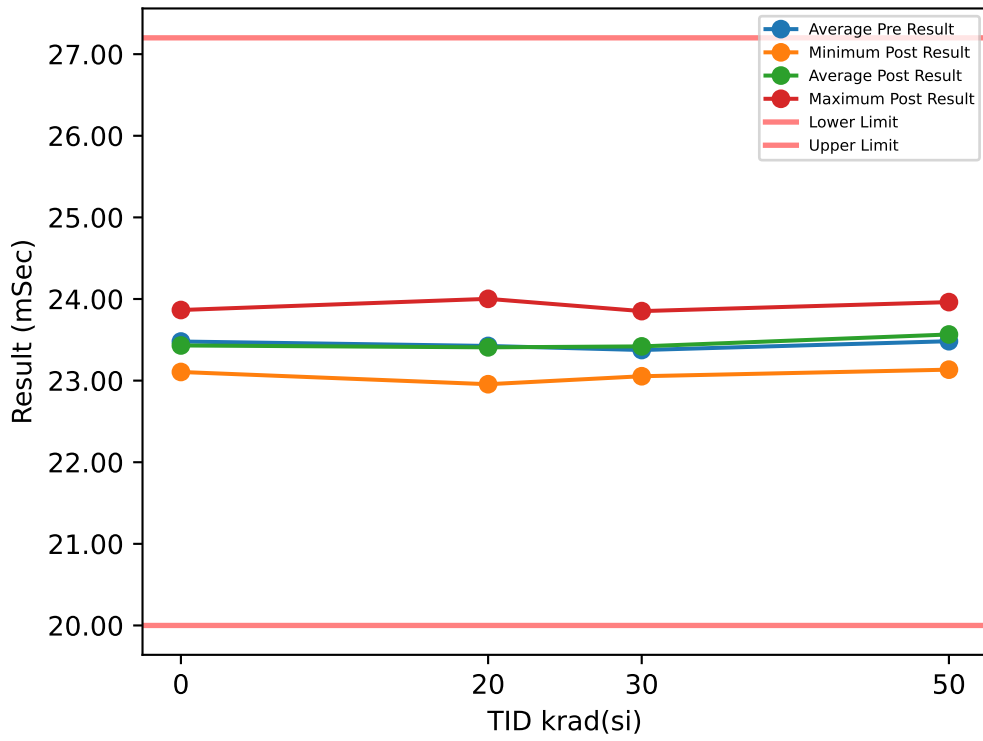| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.114 | 23.059 | -0.0553 |
| 2 | 20 | Bias | 23.756 | 23.688 | -0.0673 |
| 3 | 20 | Bias | 22.761 | 22.869 | 0.108 |
| 4 | 20 | Bias | 24.002 | 24.027 | 0.025 |
| 5 | 20 | Bias | 23.688 | 23.695 | 0.0072 |
| 6 | 20 | Unbiased | 23.123 | 22.936 | -0.1868 |
| 7 | 20 | Unbiased | 23.41 | 23.36 | -0.0494 |
| 8 | 20 | Unbiased | 23.334 | 23.197 | -0.1375 |
| 9 | 20 | Unbiased | 23.909 | 23.898 | -0.0108 |
| 10 | 20 | Unbiased | 22.931 | 23.302 | 0.3706 |
| 11 | 30 | Bias | 23.231 | 23.345 | 0.1142 |
| 12 | 30 | Bias | 23.309 | 23.389 | 0.0793 |
| 13 | 30 | Bias | 23.458 | 23.353 | -0.1053 |
| 14 | 30 | Bias | 22.935 | 23.48 | 0.5448 |
| 15 | 30 | Bias | 23.466 | 23.063 | -0.4028 |
| 16 | 30 | Unbiased | 23.617 | 23.432 | -0.1852 |
| 17 | 30 | Unbiased | 23.687 | 23.628 | -0.0586 |
| 18 | 30 | Unbiased | 23.306 | 23.85 | 0.5438 |
| 19 | 30 | Unbiased | 23.324 | 23.327 | 0.0026 |
| 20 | 30 | Unbiased | 23.398 | 23.232 | -0.1659 |
| 21 | 50 | Bias | 23.031 | 23.401 | 0.3703 |
| 22 | 50 | Bias | 23.084 | 23.136 | 0.0521 |
| 23 | 50 | Bias | 23.939 | 23.209 | -0.7298 |
| 24 | 50 | Bias | 23.188 | 23.91 | 0.7221 |
| 25 | 50 | Bias | 23.574 | 23.673 | 0.0989 |
| 26 | 50 | Unbiased | 23.736 | 23.898 | 0.1618 |
| 27 | 50 | Unbiased | 23.315 | 23.147 | -0.168 |
| 28 | 50 | Unbiased | 23.695 | 23.649 | -0.0464 |
| 29 | 50 | Unbiased | 23.874 | 23.925 | 0.0509 |
| 30 | 50 | Unbiased | 23.423 | 23.649 | 0.2257 |
| 31 | 0 | Correlation | 23.342 | 23.348 | 0.0058 |
| 32 | 0 | Correlation | 23.109 | 23.092 | -0.0176 |
| 33 | 0 | Correlation | 23.84 | 23.862 | 0.0217 |
| 34 | 0 | Correlation | 23.594 | 23.369 | -0.2248 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.109 | 23.471 | 23.84 | 0.31551 | 23.092 | 23.418 | 23.862 | 0.32172 | -0.2248 | -0.053725 | 0.0217 | 0.11519 |
| 20 | 22.761 | 23.403 | 24.002 | 0.42445 | 22.869 | 23.403 | 24.027 | 0.40513 | -0.1868 | 0.00037 | 0.3706 | 0.15407 |
| 30 | 22.935 | 23.373 | 23.687 | 0.21025 | 23.063 | 23.41 | 23.85 | 0.21438 | -0.4028 | 0.03669 | 0.5448 | 0.30496 |
| 50 | 23.031 | 23.486 | 23.939 | 0.32665 | 23.136 | 23.56 | 23.925 | 0.3156 | -0.7298 | 0.07376 | 0.7221 | 0.37407 |

# Device Test: 17.137 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN1/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

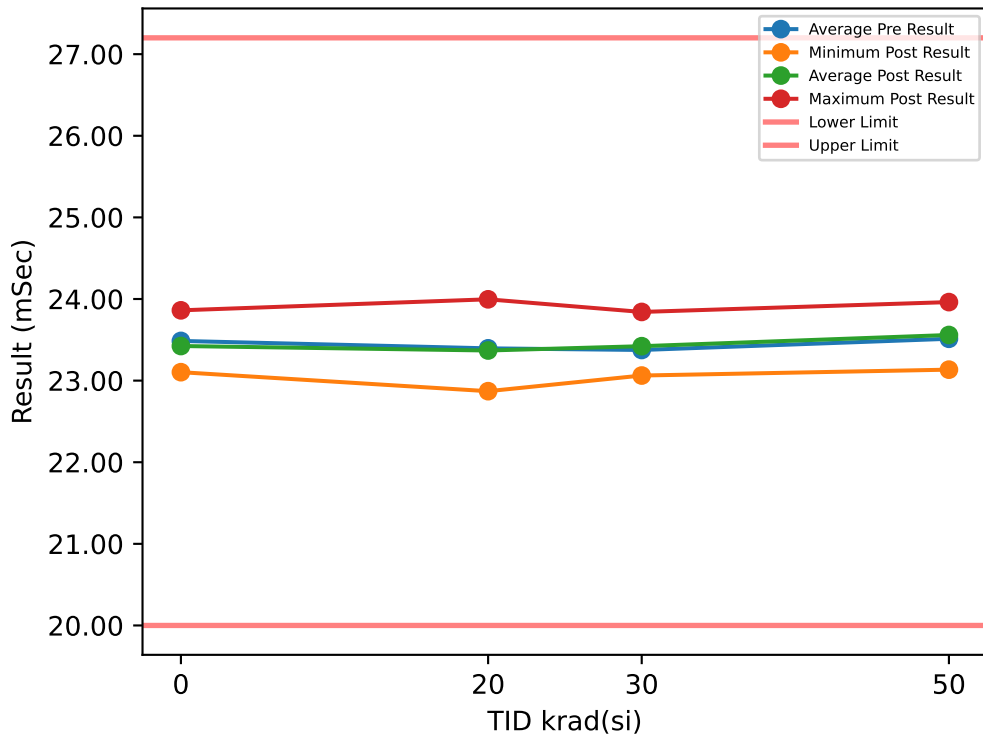| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.357 | 23.104 | -0.2537 |
| 2 | 20 | Bias | 24.027 | 23.954 | -0.0726 |
| 3 | 20 | Bias | 23.027 | 22.926 | -0.1006 |
| 4 | 20 | Bias | 24.254 | 24.28 | 0.0258 |
| 5 | 20 | Bias | 23.926 | 23.741 | -0.1849 |
| 6 | 20 | Unbiased | 23.365 | 22.973 | -0.3924 |
| 7 | 20 | Unbiased | 23.652 | 23.622 | -0.0305 |
| 8 | 20 | Unbiased | 23.563 | 23.447 | -0.1156 |
| 9 | 20 | Unbiased | 24.161 | 24.145 | -0.0161 |
| 10 | 20 | Unbiased | 23.172 | 23.022 | -0.1501 |
| 11 | 30 | Bias | 23.481 | 23.625 | 0.1436 |
| 12 | 30 | Bias | 23.564 | 23.645 | 0.081 |
| 13 | 30 | Bias | 23.721 | 23.627 | -0.0941 |
| 14 | 30 | Bias | 23.178 | 23.729 | 0.5509 |
| 15 | 30 | Bias | 23.715 | 23.291 | -0.4249 |
| 16 | 30 | Unbiased | 23.839 | 23.708 | -0.1308 |
| 17 | 30 | Unbiased | 23.939 | 23.858 | -0.0809 |
| 18 | 30 | Unbiased | 23.54 | 24.096 | 0.5564 |
| 19 | 30 | Unbiased | 23.562 | 23.57 | 0.0085 |
| 20 | 30 | Unbiased | 23.421 | 23.501 | 0.0803 |
| 21 | 50 | Bias | 23.052 | 23.657 | 0.6041 |
| 22 | 50 | Bias | 23.329 | 23.174 | -0.1551 |
| 23 | 50 | Bias | 24.162 | 23.457 | -0.7046 |
| 24 | 50 | Bias | 23.459 | 24.181 | 0.7215 |
| 25 | 50 | Bias | 23.816 | 23.929 | 0.113 |
| 26 | 50 | Unbiased | 24.001 | 24.144 | 0.143 |
| 27 | 50 | Unbiased | 23.543 | 23.226 | -0.3169 |
| 28 | 50 | Unbiased | 23.958 | 23.89 | -0.0675 |
| 29 | 50 | Unbiased | 24.123 | 24.204 | 0.0814 |
| 30 | 50 | Unbiased | 23.656 | 23.892 | 0.2364 |
| 31 | 0 | Correlation | 23.616 | 23.585 | -0.031 |
| 32 | 0 | Correlation | 23.151 | 23.14 | -0.0106 |
| 33 | 0 | Correlation | 24.095 | 24.113 | 0.0181 |
| 34 | 0 | Correlation | 23.836 | 23.647 | -0.1894 |

## Test Statistics (mSec)
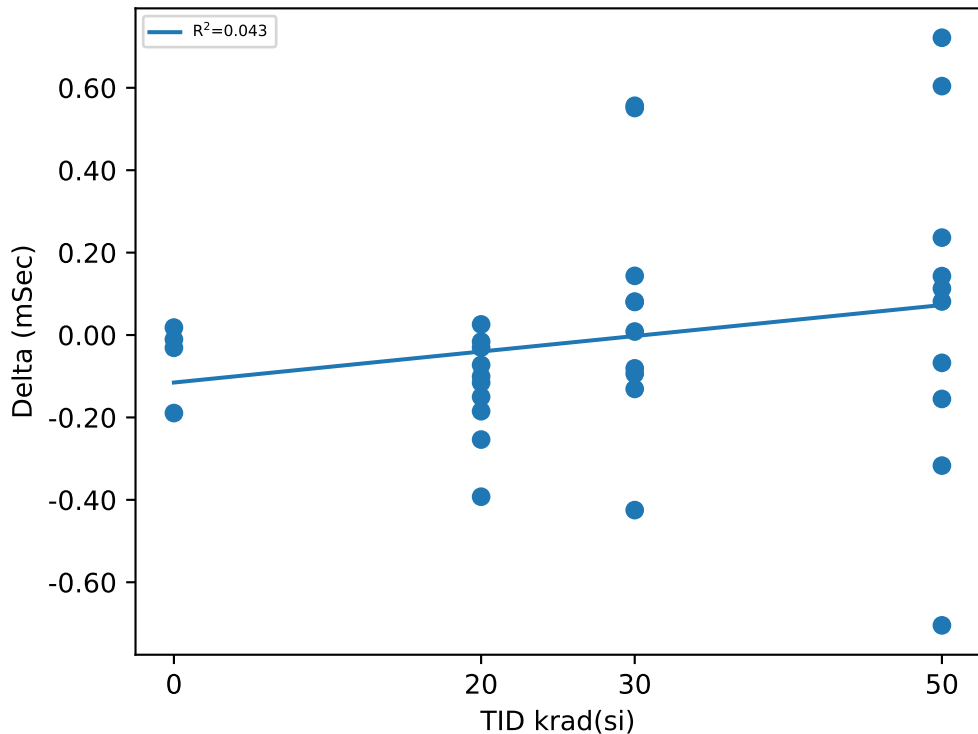
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.151 | 23.675 | 24.095 | 0.40016 | 23.14 | 23.621 | 24.113 | 0.39794 | -0.1894 | -0.053225 | 0.0181 | 0.092991 |
| 20 | 23.027 | 23.651 | 24.254 | 0.42626 | 22.926 | 23.521 | 24.28 | 0.50491 | -0.3924 | -0.12907 | 0.0258 | 0.12431 |
| 30 | 23.178 | 23.596 | 23.939 | 0.21849 | 23.291 | 23.665 | 24.096 | 0.21309 | -0.4249 | 0.069 | 0.5564 | 0.30041 |
| 50 | 23.052 | 23.71 | 24.162 | 0.36555 | 23.174 | 23.775 | 24.204 | 0.38203 | -0.7046 | 0.06553 | 0.7215 | 0.41684 |

# Device Test: 17.138 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN2/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.121 | 23.059 | -0.0615 |
| 2 | 20 | Bias | 23.782 | 23.706 | -0.0752 |
| 3 | 20 | Bias | 22.791 | 22.875 | 0.0843 |
| 4 | 20 | Bias | 24.207 | 24.038 | -0.1685 |
| 5 | 20 | Bias | 23.699 | 23.691 | -0.0088 |
| 6 | 20 | Unbiased | 23.132 | 22.948 | -0.1841 |
| 7 | 20 | Unbiased | 23.421 | 23.36 | -0.0603 |
| 8 | 20 | Unbiased | 23.329 | 23.212 | -0.1174 |
| 9 | 20 | Unbiased | 24.118 | 23.892 | -0.2262 |
| 10 | 20 | Unbiased | 22.943 | 22.977 | 0.0337 |
| 11 | 30 | Bias | 23.243 | 23.367 | 0.1241 |
| 12 | 30 | Bias | 23.319 | 23.417 | 0.0972 |
| 13 | 30 | Bias | 23.486 | 23.392 | -0.0946 |
| 14 | 30 | Bias | 22.944 | 23.521 | 0.5769 |
| 15 | 30 | Bias | 23.451 | 23.067 | -0.3839 |
| 16 | 30 | Unbiased | 23.625 | 23.477 | -0.1475 |
| 17 | 30 | Unbiased | 23.715 | 23.622 | -0.092 |
| 18 | 30 | Unbiased | 23.317 | 24.05 | 0.7332 |
| 19 | 30 | Unbiased | 23.327 | 23.327 | -0.0003 |
| 20 | 30 | Unbiased | 23.364 | 23.24 | -0.1238 |
| 21 | 50 | Bias | 23.034 | 23.427 | 0.3932 |
| 22 | 50 | Bias | 23.08 | 23.129 | 0.0489 |
| 23 | 50 | Bias | 23.938 | 23.193 | -0.7447 |
| 24 | 50 | Bias | 23.184 | 24.133 | 0.9489 |
| 25 | 50 | Bias | 23.572 | 23.671 | 0.0986 |
| 26 | 50 | Unbiased | 23.744 | 23.89 | 0.1455 |
| 27 | 50 | Unbiased | 23.326 | 23.187 | -0.1388 |
| 28 | 50 | Unbiased | 23.724 | 23.659 | -0.0645 |
| 29 | 50 | Unbiased | 24.075 | 23.974 | -0.101 |
| 30 | 50 | Unbiased | 23.431 | 23.662 | 0.2311 |
| 31 | 0 | Correlation | 23.354 | 23.36 | 0.0058 |
| 32 | 0 | Correlation | 23.124 | 23.115 | -0.0089 |
| 33 | 0 | Correlation | 24.068 | 23.874 | -0.1947 |
| 34 | 0 | Correlation | 23.596 | 23.385 | -0.2119 |

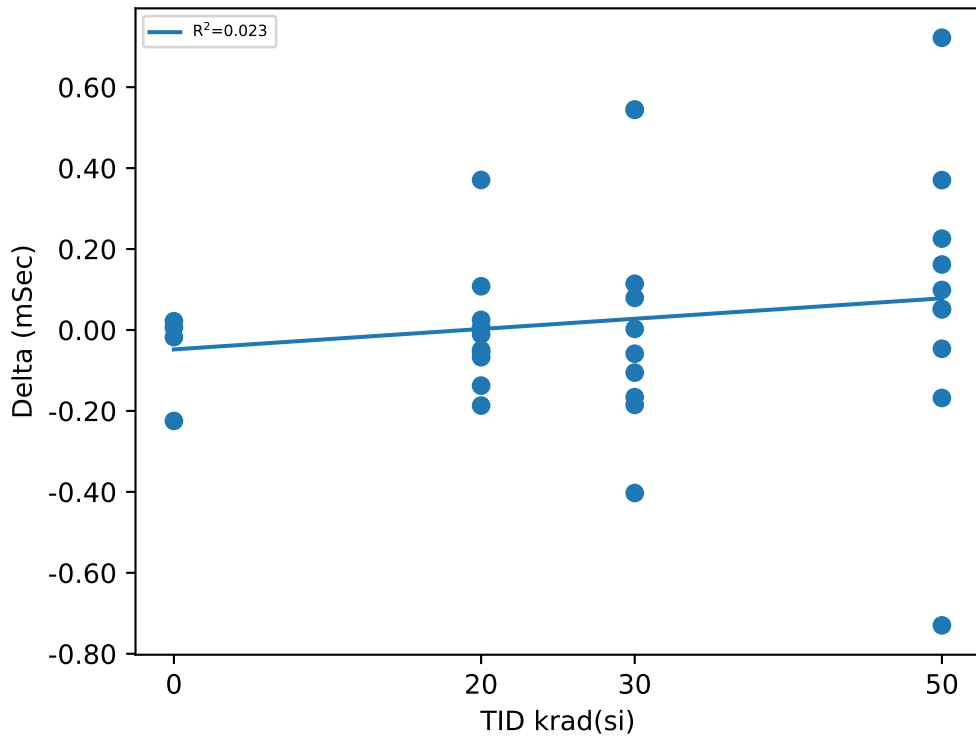## Test Statistics (mSec)
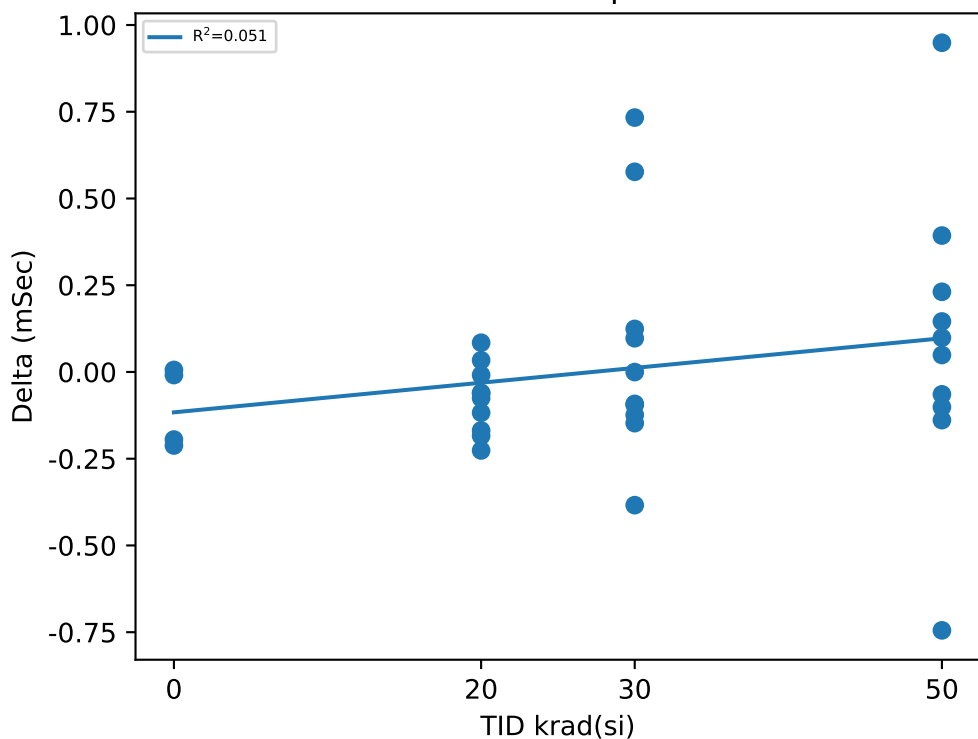
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.124 | 23.536 | 24.068 | 0.4042 | 23.115 | 23.433 | 23.874 | 0.31784 | -0.2119 | -0.10243 | 0.0058 | 0.11685 |
| 20 | 22.791 | 23.454 | 24.207 | 0.48397 | 22.875 | 23.376 | 24.038 | 0.42614 | -0.2262 | -0.0784 | 0.0843 | 0.098411 |
| 30 | 22.944 | 23.379 | 23.715 | 0.21289 | 23.067 | 23.448 | 24.05 | 0.26098 | -0.3839 | 0.06893 | 0.7332 | 0.3415 |
| 50 | 23.034 | 23.511 | 24.075 | 0.35981 | 23.129 | 23.592 | 24.133 | 0.35083 | -0.7447 | 0.08172 | 0.9489 | 0.42987 |

# Device Test: 17.139 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN3/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Lower Limit, Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.037$

## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

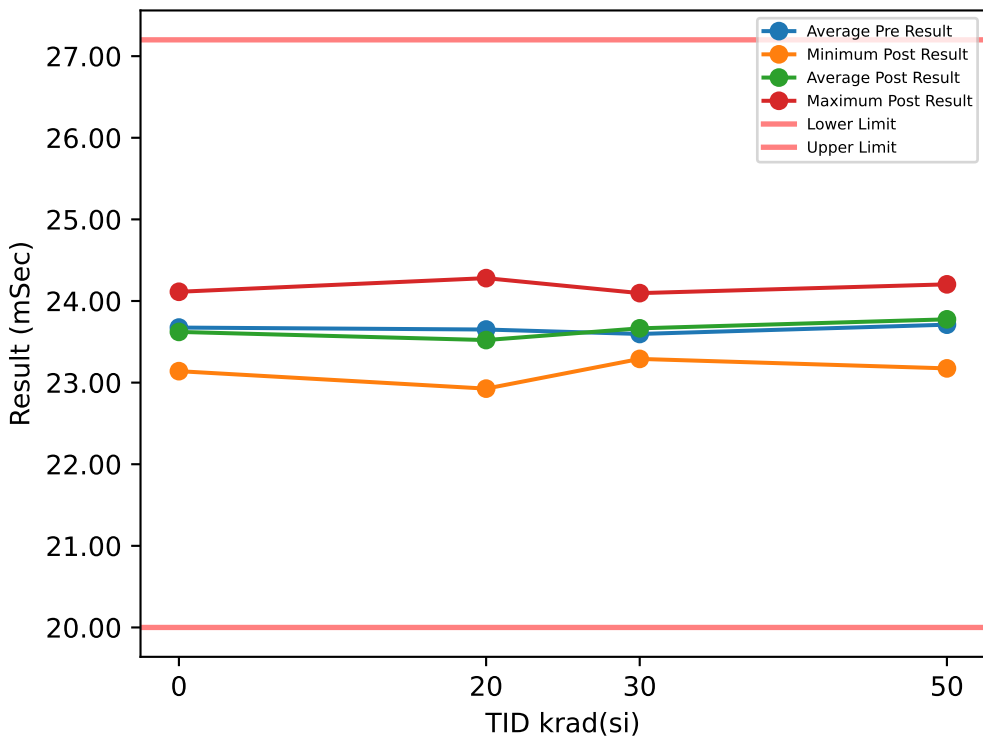| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.128 | 23.067 | -0.0613 |
| 2 | 20 | Bias | 23.768 | 23.719 | -0.0498 |
| 3 | 20 | Bias | 22.776 | 22.867 | 0.0909 |
| 4 | 20 | Bias | 24.001 | 24.014 | 0.0123 |
| 5 | 20 | Bias | 23.705 | 23.718 | 0.0134 |
| 6 | 20 | Unbiased | 23.132 | 22.925 | -0.2072 |
| 7 | 20 | Unbiased | 23.419 | 23.387 | -0.0324 |
| 8 | 20 | Unbiased | 23.345 | 23.213 | -0.1317 |
| 9 | 20 | Unbiased | 24.117 | 23.872 | -0.2453 |
| 10 | 20 | Unbiased | 22.943 | 22.977 | 0.0341 |
| 11 | 30 | Bias | 23.249 | 23.393 | 0.1445 |
| 12 | 30 | Bias | 23.331 | 23.4 | 0.0691 |
| 13 | 30 | Bias | 23.472 | 23.362 | -0.1094 |
| 14 | 30 | Bias | 22.918 | 23.519 | 0.6008 |
| 15 | 30 | Bias | 23.482 | 23.07 | -0.4117 |
| 16 | 30 | Unbiased | 23.621 | 23.442 | -0.179 |
| 17 | 30 | Unbiased | 23.719 | 23.602 | -0.1163 |
| 18 | 30 | Unbiased | 23.261 | 24.049 | 0.7881 |
| 19 | 30 | Unbiased | 23.337 | 23.339 | 0.0025 |
| 20 | 30 | Unbiased | 23.408 | 23.274 | -0.1339 |
| 21 | 50 | Bias | 23.016 | 23.412 | 0.396 |
| 22 | 50 | Bias | 23.066 | 23.147 | 0.081 |
| 23 | 50 | Bias | 23.936 | 23.212 | -0.7239 |
| 24 | 50 | Bias | 23.226 | 23.92 | 0.6947 |
| 25 | 50 | Bias | 23.583 | 23.692 | 0.1097 |
| 26 | 50 | Unbiased | 23.955 | 23.88 | -0.0751 |
| 27 | 50 | Unbiased | 23.324 | 23.171 | -0.1534 |
| 28 | 50 | Unbiased | 23.723 | 23.648 | -0.074 |
| 29 | 50 | Unbiased | 23.863 | 23.975 | 0.1127 |
| 30 | 50 | Unbiased | 23.433 | 23.631 | 0.1973 |
| 31 | 0 | Correlation | 23.378 | 23.348 | -0.0293 |
| 32 | 0 | Correlation | 23.124 | 23.115 | -0.009 |
| 33 | 0 | Correlation | 24.072 | 23.873 | -0.1987 |
| 34 | 0 | Correlation | 23.587 | 23.411 | -0.1762 |

## Test Statistics (mSec)
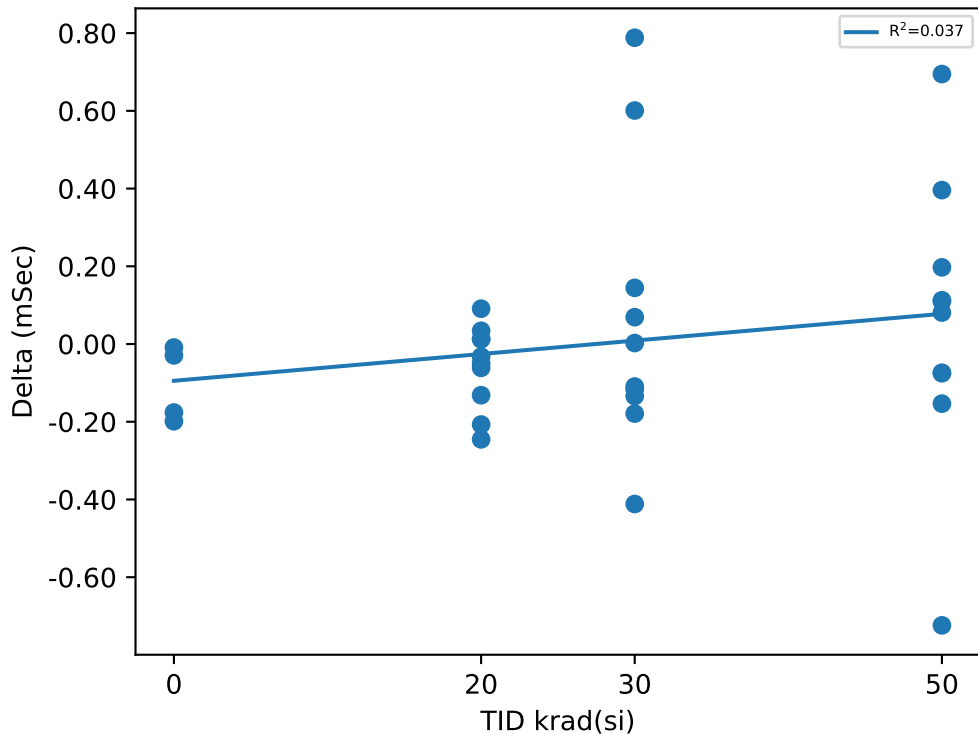
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.124 | 23.54 | 24.072 | 0.40178 | 23.115 | 23.437 | 23.873 | 0.31742 | -0.1987 | -0.1033 | -0.009 | 0.097952 |
| 20 | 22.776 | 23.433 | 24.117 | 0.45224 | 22.867 | 23.376 | 24.014 | 0.4257 | -0.2453 | -0.0577 | 0.0909 | 0.1076 |
| 30 | 22.918 | 23.38 | 23.719 | 0.22145 | 23.07 | 23.445 | 24.049 | 0.25548 | -0.4117 | 0.06547 | 0.7881 | 0.36664 |
| 50 | 23.016 | 23.512 | 23.955 | 0.35232 | 23.147 | 23.569 | 23.975 | 0.31607 | -0.7239 | 0.0565 | 0.6947 | 0.37065 |

# Device Test: 17.14  TPD_EN(_DELAY|STEP_UP/EN2/1.6/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

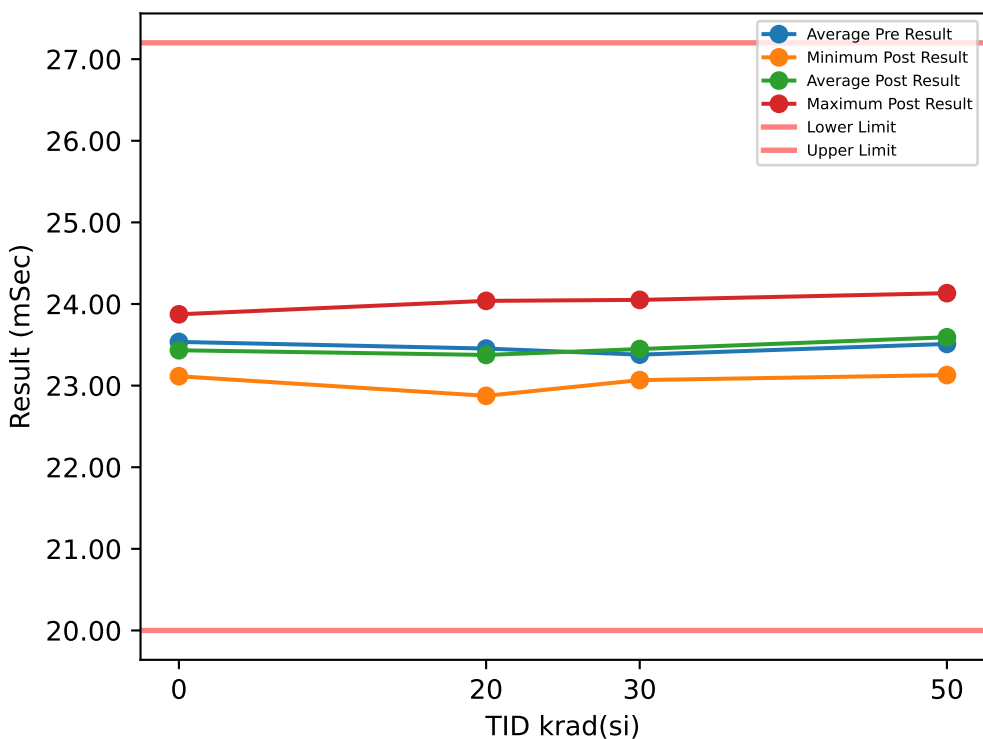| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.2791 | 3.0964 | -0.1827 |
| 2 | 20 | Bias | 3.176 | 3.2242 | 0.0482 |
| 3 | 20 | Bias | 3.2472 | 3.0996 | -0.1476 |
| 4 | 20 | Bias | 3.0354 | 3.3916 | 0.3562 |
| 5 | 20 | Bias | 3.2335 | 3.3242 | 0.0907 |
| 6 | 20 | Unbiased | 3.2253 | 3.2537 | 0.0284 |
| 7 | 20 | Unbiased | 3.0986 | 3.2105 | 0.1119 |
| 8 | 20 | Unbiased | 3.5402 | 3.2096 | -0.3306 |
| 9 | 20 | Unbiased | 2.9407 | 3.0004 | 0.0597 |
| 10 | 20 | Unbiased | 3.215 | 3.1078 | -0.1072 |
| 11 | 30 | Bias | 3.071 | 3.2069 | 0.1359 |
| 12 | 30 | Bias | 3.16 | 3.3988 | 0.2388 |
| 13 | 30 | Bias | 3.0816 | 3.415 | 0.3334 |
| 14 | 30 | Bias | 3.2753 | 3.346 | 0.0707 |
| 15 | 30 | Bias | 3.2642 | 3.0663 | -0.1979 |
| 16 | 30 | Unbiased | 3.3518 | 3.5347 | 0.1829 |
| 17 | 30 | Unbiased | 3.2136 | 3.0763 | -0.1373 |
| 18 | 30 | Unbiased | 3.3131 | 3.3066 | -0.0065 |
| 19 | 30 | Unbiased | 3.4774 | 3.1215 | -0.3559 |
| 20 | 30 | Unbiased | 3.2689 | 3.473 | 0.2041 |
| 21 | 50 | Bias | 3.367 | 3.3692 | 0.0022 |
| 22 | 50 | Bias | 3.1079 | 3.3937 | 0.2858 |
| 23 | 50 | Bias | 3.2777 | 3.1903 | -0.0874 |
| 24 | 50 | Bias | 3.1371 | 3.0551 | -0.082 |
| 25 | 50 | Bias | 2.9896 | 3.2666 | 0.277 |
| 26 | 50 | Unbiased | 3.1316 | 3.4324 | 0.3008 |
| 27 | 50 | Unbiased | 3.2415 | 3.0131 | -0.2284 |
| 28 | 50 | Unbiased | 3.3181 | 3.0537 | -0.2644 |
| 29 | 50 | Unbiased | 3.3217 | 3.2017 | -0.12 |
| 30 | 50 | Unbiased | 3.3747 | 3.0674 | -0.3073 |
| 31 | 0 | Correlation | 2.9513 | 3.3284 | 0.3771 |
| 32 | 0 | Correlation | 3.4283 | 3.3908 | -0.0375 |
| 33 | 0 | Correlation | 3.3109 | 3.1007 | -0.2102 |
| 34 | 0 | Correlation | 3.037 | 3.1108 | 0.0738 |

## Test Statistics (uSec)
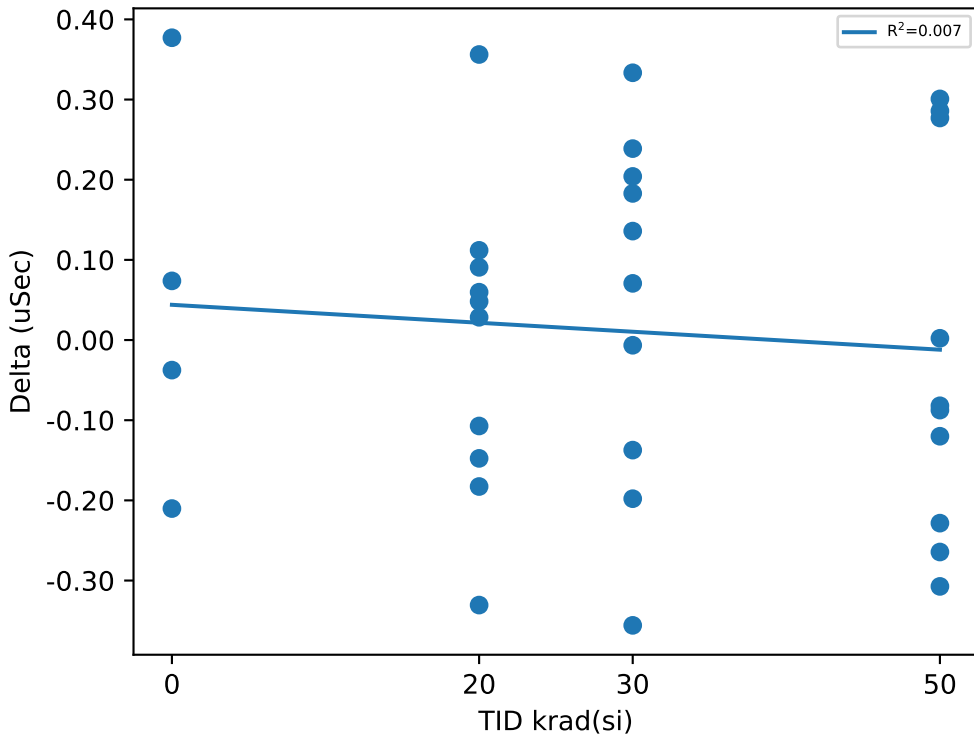
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.9513 | 3.1819 | 3.4283 | 0.22474 | 3.1007 | 3.2327 | 3.3908 | 0.14881 | -0.2102 | 0.0508 | 0.3771 | 0.24693 |
| 20 | 2.9407 | 3.1991 | 3.5402 | 0.16034 | 3.0004 | 3.1918 | 3.3916 | 0.11752 | -0.3306 | -0.0073 | 0.3562 | 0.19141 |
| 30 | 3.071 | 3.2477 | 3.4774 | 0.12339 | 3.0663 | 3.2945 | 3.5347 | 0.16834 | -0.3559 | 0.04682 | 0.3334 | 0.21847 |
| 50 | 2.9896 | 3.2267 | 3.3747 | 0.12875 | 3.0131 | 3.2043 | 3.4324 | 0.15614 | -0.3073 | -0.02237 | 0.3008 | 0.23313 |

# Device Test: 17.140 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN4/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

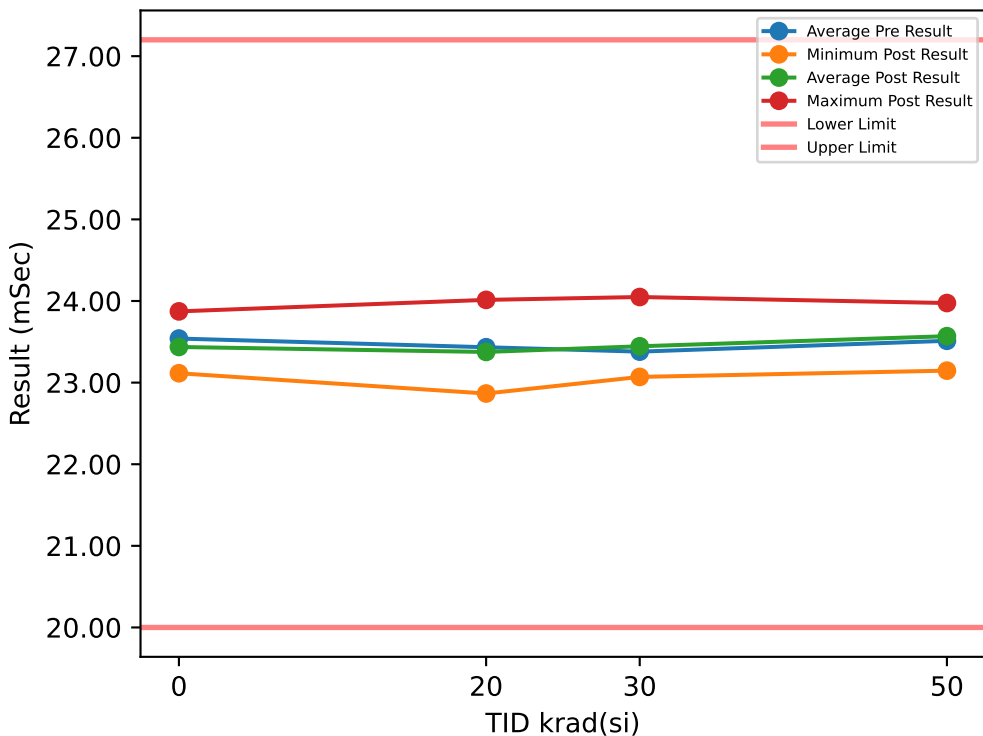| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.12 | 23.063 | -0.0574 |
| 2 | 20 | Bias | 23.787 | 23.715 | -0.0715 |
| 3 | 20 | Bias | 22.789 | 23.211 | 0.4218 |
| 4 | 20 | Bias | 24.203 | 24.039 | -0.1636 |
| 5 | 20 | Bias | 23.701 | 23.713 | 0.0127 |
| 6 | 20 | Unbiased | 23.127 | 22.959 | -0.1681 |
| 7 | 20 | Unbiased | 23.396 | 23.36 | -0.0365 |
| 8 | 20 | Unbiased | 23.34 | 23.197 | -0.1432 |
| 9 | 20 | Unbiased | 24.115 | 23.9 | -0.2147 |
| 10 | 20 | Unbiased | 22.936 | 22.97 | 0.0331 |
| 11 | 30 | Bias | 23.244 | 23.36 | 0.1164 |
| 12 | 30 | Bias | 23.307 | 23.392 | 0.0847 |
| 13 | 30 | Bias | 23.482 | 23.389 | -0.0931 |
| 14 | 30 | Bias | 22.933 | 23.509 | 0.5766 |
| 15 | 30 | Bias | 23.478 | 23.064 | -0.4147 |
| 16 | 30 | Unbiased | 23.625 | 23.471 | -0.1532 |
| 17 | 30 | Unbiased | 23.701 | 23.634 | -0.0665 |
| 18 | 30 | Unbiased | 23.312 | 23.854 | 0.5419 |
| 19 | 30 | Unbiased | 23.291 | 23.332 | 0.041 |
| 20 | 30 | Unbiased | 23.396 | 23.268 | -0.1283 |
| 21 | 50 | Bias | 23.035 | 23.422 | 0.3867 |
| 22 | 50 | Bias | 23.093 | 23.142 | 0.0491 |
| 23 | 50 | Bias | 23.938 | 23.223 | -0.7153 |
| 24 | 50 | Bias | 23.203 | 23.904 | 0.7019 |
| 25 | 50 | Bias | 23.58 | 23.688 | 0.1084 |
| 26 | 50 | Unbiased | 23.729 | 23.9 | 0.1704 |
| 27 | 50 | Unbiased | 23.321 | 23.482 | 0.1603 |
| 28 | 50 | Unbiased | 23.717 | 23.623 | -0.0946 |
| 29 | 50 | Unbiased | 23.846 | 23.971 | 0.1258 |
| 30 | 50 | Unbiased | 23.401 | 23.613 | 0.2125 |
| 31 | 0 | Correlation | 23.35 | 23.354 | 0.0044 |
| 32 | 0 | Correlation | 23.116 | 23.103 | -0.0124 |
| 33 | 0 | Correlation | 23.861 | 23.867 | 0.0066 |
| 34 | 0 | Correlation | 23.602 | 23.385 | -0.2174 |

## Test Statistics (mSec)
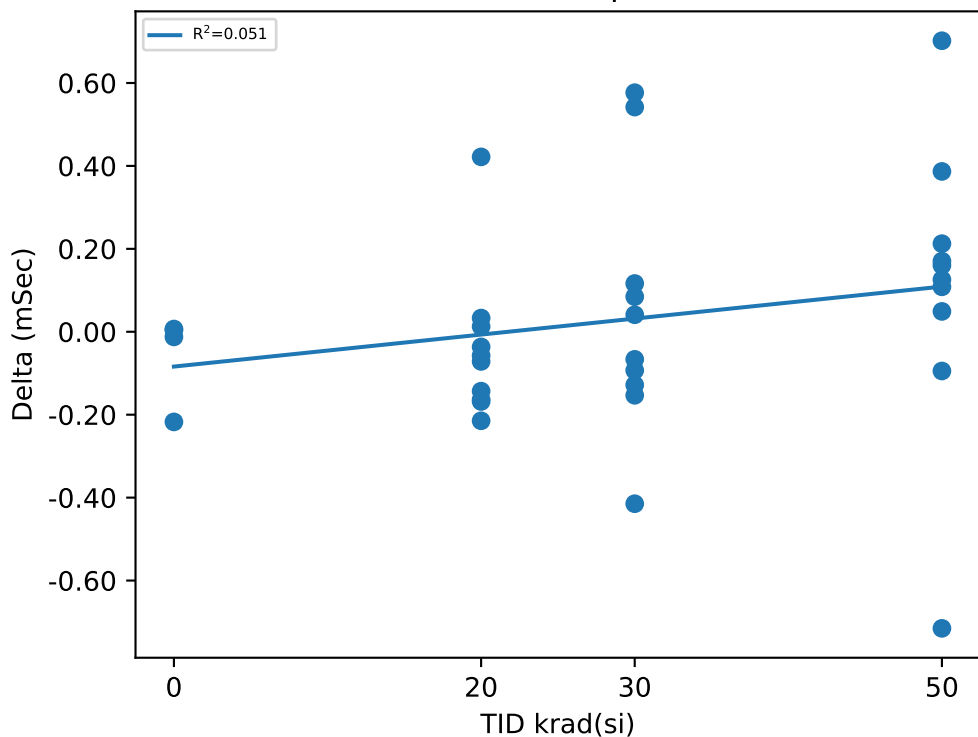
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.116 | 23.482 | 23.861 | 0.32118 | 23.103 | 23.427 | 23.867 | 0.31924 | -0.2174 | -0.0547 | 0.0066 | 0.1088 |
| 20 | 22.789 | 23.452 | 24.203 | 0.4846 | 22.959 | 23.413 | 24.039 | 0.39817 | -0.2147 | -0.03874 | 0.4218 | 0.18121 |
| 30 | 22.933 | 23.377 | 23.701 | 0.21592 | 23.064 | 23.427 | 23.854 | 0.21276 | -0.4147 | 0.05048 | 0.5766 | 0.30696 |
| 50 | 23.035 | 23.486 | 23.938 | 0.32097 | 23.142 | 23.597 | 23.971 | 0.28416 | -0.7153 | 0.11052 | 0.7019 | 0.36064 |
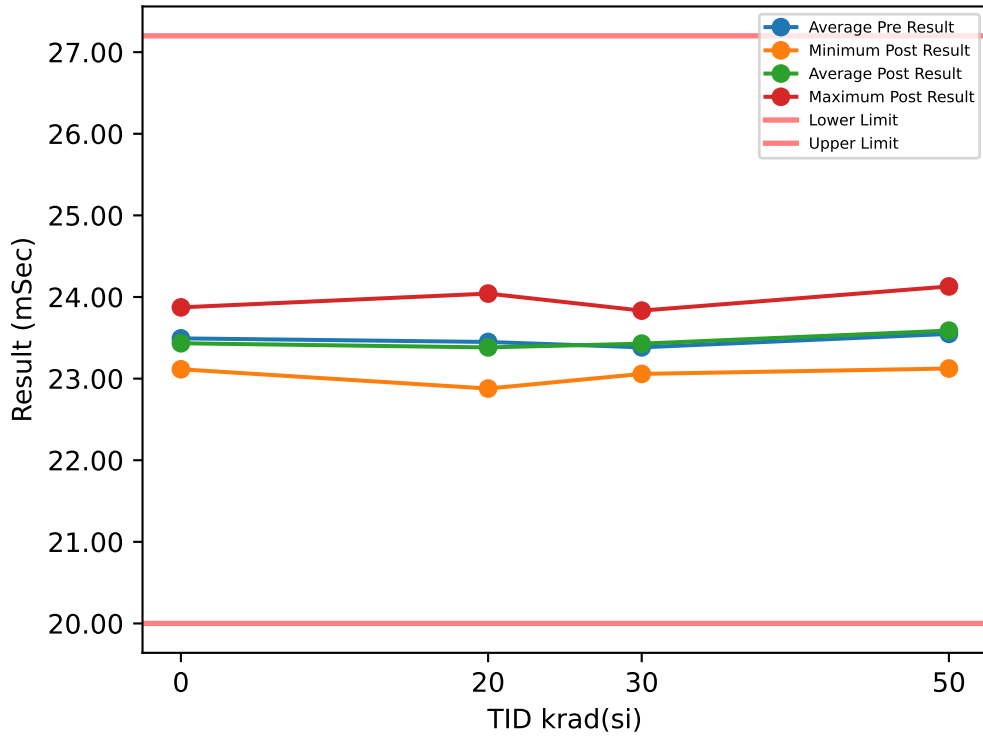
# Device Test: 17.141 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/SEQ_DONE/7/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

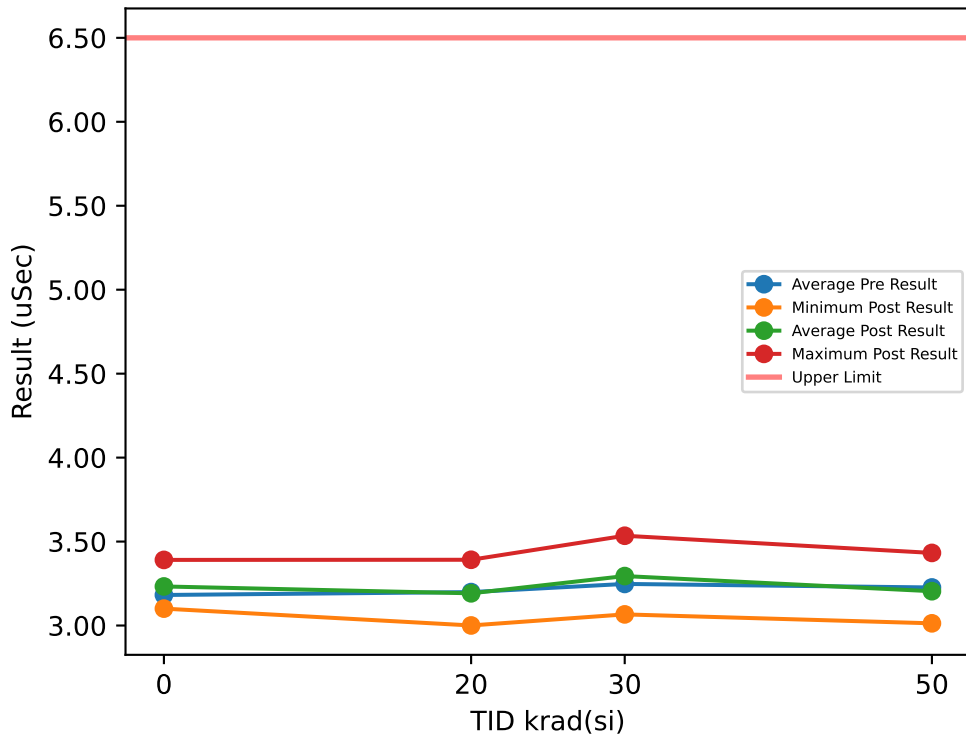| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.11 | 23.051 | -0.059 |
| 2 | 20 | Bias | 23.776 | 23.72 | -0.0568 |
| 3 | 20 | Bias | 22.784 | 22.878 | 0.0944 |
| 4 | 20 | Bias | 24.206 | 24.042 | -0.1637 |
| 5 | 20 | Bias | 23.701 | 23.716 | 0.0152 |
| 6 | 20 | Unbiased | 23.128 | 22.963 | -0.1648 |
| 7 | 20 | Unbiased | 23.419 | 23.387 | -0.0324 |
| 8 | 20 | Unbiased | 23.342 | 23.208 | -0.1343 |
| 9 | 20 | Unbiased | 24.113 | 23.9 | -0.2124 |
| 10 | 20 | Unbiased | 22.912 | 22.957 | 0.0446 |
| 11 | 30 | Bias | 23.234 | 23.39 | 0.1565 |
| 12 | 30 | Bias | 23.331 | 23.416 | 0.0847 |
| 13 | 30 | Bias | 23.445 | 23.354 | -0.0905 |
| 14 | 30 | Bias | 22.945 | 23.52 | 0.5744 |
| 15 | 30 | Bias | 23.474 | 23.058 | -0.4162 |
| 16 | 30 | Unbiased | 23.63 | 23.471 | -0.1587 |
| 17 | 30 | Unbiased | 23.725 | 23.637 | -0.0872 |
| 18 | 30 | Unbiased | 23.307 | 23.833 | 0.5265 |
| 19 | 30 | Unbiased | 23.337 | 23.34 | 0.0031 |
| 20 | 30 | Unbiased | 23.404 | 23.265 | -0.1394 |
| 21 | 50 | Bias | 23.037 | 23.41 | 0.3731 |
| 22 | 50 | Bias | 23.098 | 23.124 | 0.0257 |
| 23 | 50 | Bias | 24.139 | 23.207 | -0.9316 |
| 24 | 50 | Bias | 23.529 | 24.129 | 0.6004 |
| 25 | 50 | Bias | 23.579 | 23.693 | 0.1134 |
| 26 | 50 | Unbiased | 23.765 | 23.899 | 0.1336 |
| 27 | 50 | Unbiased | 23.311 | 23.158 | -0.153 |
| 28 | 50 | Unbiased | 23.722 | 23.63 | -0.0925 |
| 29 | 50 | Unbiased | 23.867 | 23.974 | 0.1075 |
| 30 | 50 | Unbiased | 23.431 | 23.658 | 0.2276 |
| 31 | 0 | Correlation | 23.378 | 23.336 | -0.0425 |
| 32 | 0 | Correlation | 23.124 | 23.114 | -0.01 |
| 33 | 0 | Correlation | 23.864 | 23.873 | 0.0087 |
| 34 | 0 | Correlation | 23.606 | 23.41 | -0.1957 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.124 | 23.493 | 23.864 | 0.31601 | 23.114 | 23.433 | 23.873 | 0.31887 | -0.1957 | -0.059875 | 0.0087 | 0.092988 |
| 20 | 22.784 | 23.449 | 24.206 | 0.48807 | 22.878 | 23.382 | 24.042 | 0.43194 | -0.2124 | -0.06692 | 0.0944 | 0.10067 |
| 30 | 22.945 | 23.383 | 23.725 | 0.21465 | 23.058 | 23.428 | 23.833 | 0.20995 | -0.4162 | 0.04532 | 0.5744 | 0.30766 |
| 50 | 23.037 | 23.548 | 24.139 | 0.3437 | 23.124 | 23.588 | 24.129 | 0.355 | -0.9316 | 0.04042 | 0.6004 | 0.40523 |

# Device Test: 17.142 DLY_TMR_10KOHM(_DELAY|STEP_UP/EN1/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

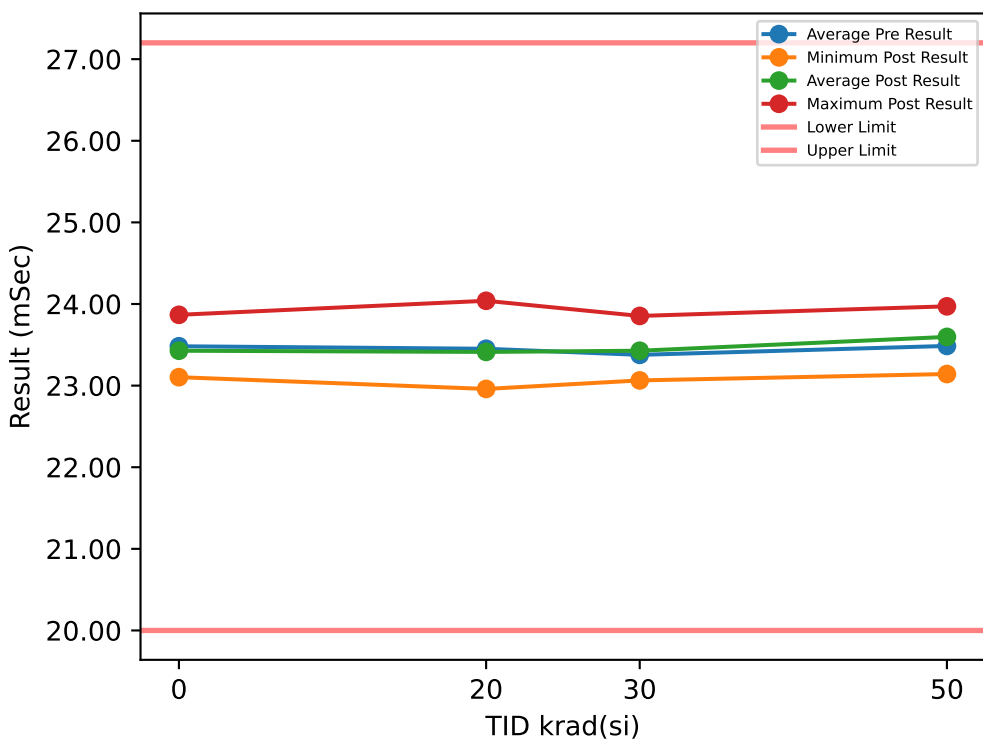| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2681 | 0.2697 | 0.0016 |
| 2 | 20 | Bias | 0.2674 | 0.268 | 0.0006 |
| 3 | 20 | Bias | 0.264 | 0.2647 | 0.0007 |
| 4 | 20 | Bias | 0.2661 | 0.2667 | 0.0006 |
| 5 | 20 | Bias | 0.2633 | 0.2652 | 0.0019 |
| 6 | 20 | Unbiased | 0.2564 | 0.2558 | -0.0006 |
| 7 | 20 | Unbiased | 0.2651 | 0.2631 | -0.002 |
| 8 | 20 | Unbiased | 0.2656 | 0.2648 | -0.0008 |
| 9 | 20 | Unbiased | 0.2658 | 0.2661 | 0.0003 |
| 10 | 20 | Unbiased | 0.263 | 0.2637 | 0.0007 |
| 11 | 30 | Bias | 0.2588 | 0.2638 | 0.005 |
| 12 | 30 | Bias | 0.2641 | 0.2585 | -0.0056 |
| 13 | 30 | Bias | 0.2667 | 0.2641 | -0.0026 |
| 14 | 30 | Bias | 0.2647 | 0.2649 | 0.0002 |
| 15 | 30 | Bias | 0.265 | 0.2646 | -0.0004 |
| 16 | 30 | Unbiased | 0.2649 | 0.2657 | 0.0008 |
| 17 | 30 | Unbiased | 0.2633 | 0.2635 | 0.0002 |
| 18 | 30 | Unbiased | 0.2677 | 0.2638 | -0.0039 |
| 19 | 30 | Unbiased | 0.2569 | 0.2654 | 0.0085 |
| 20 | 30 | Unbiased | 0.2656 | 0.2571 | -0.0085 |
| 21 | 50 | Bias | 0.2571 | 0.264 | 0.0069 |
| 22 | 50 | Bias | 0.2556 | 0.2594 | 0.0038 |
| 23 | 50 | Bias | 0.2655 | 0.2575 | -0.008 |
| 24 | 50 | Bias | 0.2633 | 0.2671 | 0.0038 |
| 25 | 50 | Bias | 0.2733 | 0.273 | -0.0003 |
| 26 | 50 | Unbiased | 0.2683 | 0.268 | -0.0003 |
| 27 | 50 | Unbiased | 0.2633 | 0.264 | 0.0007 |
| 28 | 50 | Unbiased | 0.2645 | 0.2648 | 0.0003 |
| 29 | 50 | Unbiased | 0.2674 | 0.2664 | -0.001 |
| 30 | 50 | Unbiased | 0.2637 | 0.2657 | 0.002 |
| 31 | 0 | Correlation | 0.2647 | 0.2663 | 0.0016 |
| 32 | 0 | Correlation | 0.2562 | 0.255 | -0.0012 |
| 33 | 0 | Correlation | 0.2718 | 0.2739 | 0.0021 |
| 34 | 0 | Correlation | 0.2647 | 0.2644 | -0.0003 |

## Test Statistics (mSec)
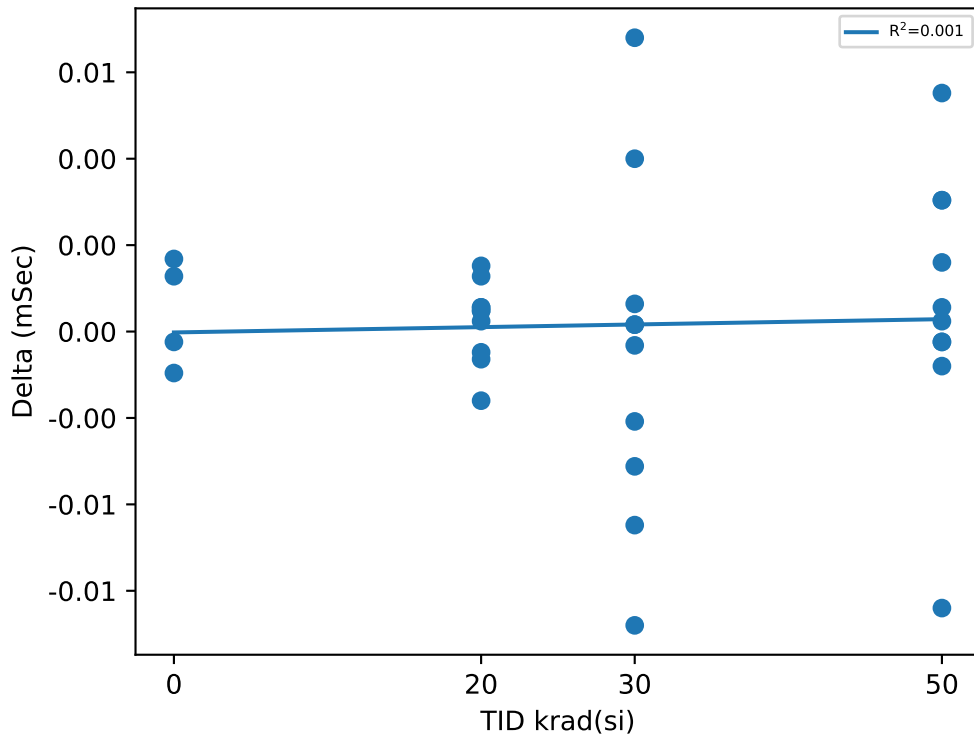
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2562 | 0.26435 | 0.2718 | 0.0063815 | 0.255 | 0.2649 | 0.2739 | 0.0077722 | -0.0012 | 0.00055 | 0.0021 | 0.0015588 |
| 20 | 0.2564 | 0.26448 | 0.2681 | 0.0032785 | 0.2558 | 0.26478 | 0.2697 | 0.003724 | -0.002 | 0.0003 | 0.0019 | 0.0011576 |
| 30 | 0.2569 | 0.26377 | 0.2677 | 0.0033872 | 0.2571 | 0.26314 | 0.2657 | 0.0029216 | -0.0085 | -0.00063 | 0.0085 | 0.0049412 |
| 50 | 0.2556 | 0.2642 | 0.2733 | 0.0051411 | 0.2575 | 0.26499 | 0.273 | 0.0043399 | -0.008 | 0.00079 | 0.0069 | 0.0039442 |
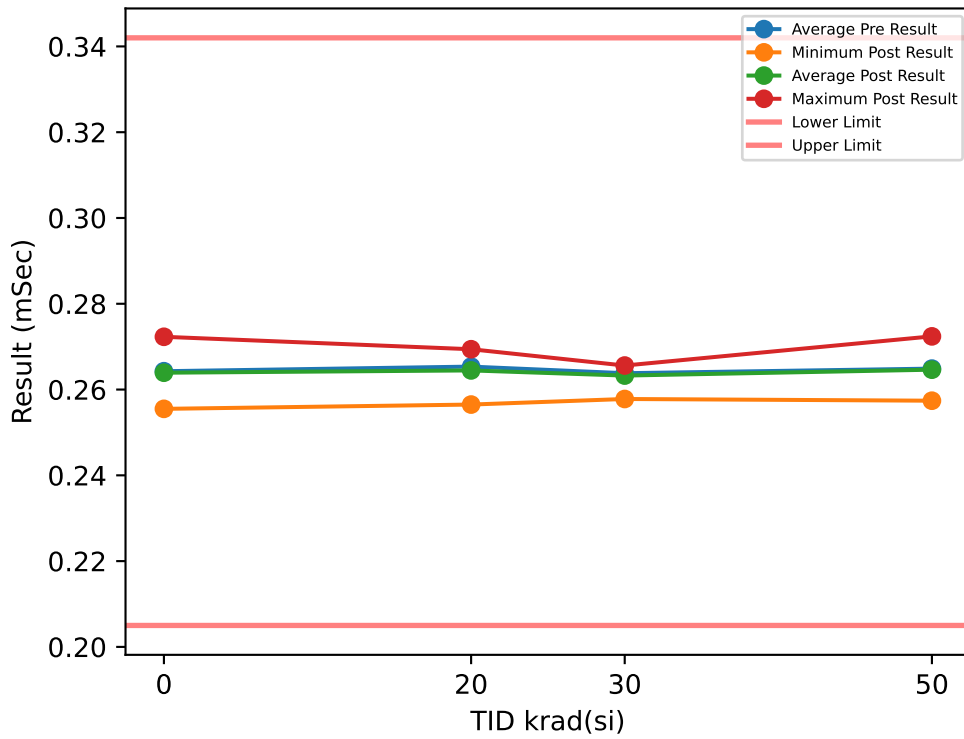
# Device Test: 17.143 DLY_TMR_10KOHM(_DELAY|STEP_UP/EN2/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2688 | 0.2694 | 0.0006 |
| 2 | 20 | Bias | 0.2695 | 0.2687 | -0.0008 |
| 3 | 20 | Bias | 0.2664 | 0.2644 | -0.002 |
| 4 | 20 | Bias | 0.2662 | 0.2664 | 0.0002 |
| 5 | 20 | Bias | 0.2645 | 0.2628 | -0.0017 |
| 6 | 20 | Unbiased | 0.2579 | 0.2565 | -0.0014 |
| 7 | 20 | Unbiased | 0.265 | 0.2647 | -0.0003 |
| 8 | 20 | Unbiased | 0.2665 | 0.2647 | -0.0018 |
| 9 | 20 | Unbiased | 0.2653 | 0.2647 | -0.0006 |
| 10 | 20 | Unbiased | 0.2634 | 0.2623 | -0.0011 |
| 11 | 30 | Bias | 0.2592 | 0.2646 | 0.0054 |
| 12 | 30 | Bias | 0.2644 | 0.2578 | -0.0066 |
| 13 | 30 | Bias | 0.2652 | 0.2634 | -0.0018 |
| 14 | 30 | Bias | 0.2641 | 0.2642 | 0.0001 |
| 15 | 30 | Bias | 0.266 | 0.2649 | -0.0011 |
| 16 | 30 | Unbiased | 0.2654 | 0.2653 | -0.0001 |
| 17 | 30 | Unbiased | 0.2644 | 0.2634 | -0.001 |
| 18 | 30 | Unbiased | 0.2666 | 0.2656 | -0.001 |
| 19 | 30 | Unbiased | 0.2571 | 0.2656 | 0.0085 |
| 20 | 30 | Unbiased | 0.2657 | 0.2578 | -0.0079 |
| 21 | 50 | Bias | 0.258 | 0.2654 | 0.0074 |
| 22 | 50 | Bias | 0.2561 | 0.2583 | 0.0022 |
| 23 | 50 | Bias | 0.2676 | 0.2574 | -0.0102 |
| 24 | 50 | Bias | 0.2647 | 0.2656 | 0.0009 |
| 25 | 50 | Bias | 0.2713 | 0.2724 | 0.0011 |
| 26 | 50 | Unbiased | 0.2673 | 0.2673 | 0 |
| 27 | 50 | Unbiased | 0.2644 | 0.2637 | -0.0007 |
| 28 | 50 | Unbiased | 0.2643 | 0.2632 | -0.0011 |
| 29 | 50 | Unbiased | 0.2688 | 0.2668 | -0.002 |
| 30 | 50 | Unbiased | 0.2663 | 0.2662 | -0.0001 |
| 31 | 0 | Correlation | 0.2654 | 0.2647 | -0.0007 |
| 32 | 0 | Correlation | 0.256 | 0.2555 | -0.0005 |
| 33 | 0 | Correlation | 0.2723 | 0.2723 | 0 |
| 34 | 0 | Correlation | 0.2634 | 0.2632 | -0.0002 |

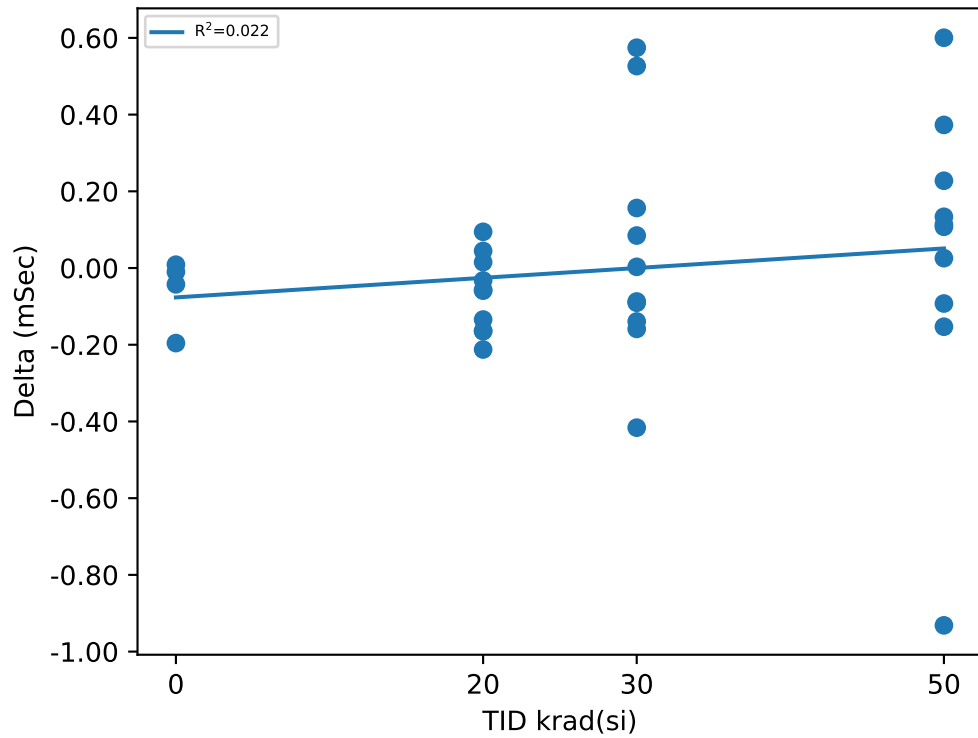## Test Statistics (mSec)
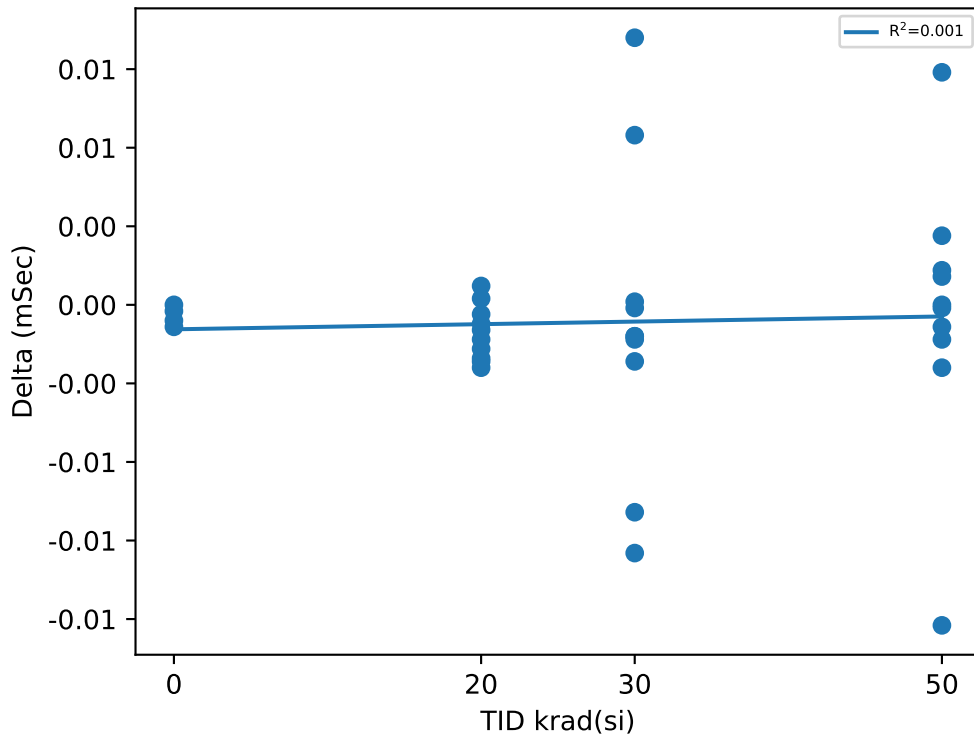
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.256 | 0.26428 | 0.2723 | 0.0067059 | 0.2555 | 0.26392 | 0.2723 | 0.0068859 | -0.0007 | -0.00035 | 0 | 0.00031091 |
| 20 | 0.2579 | 0.26535 | 0.2695 | 0.0032046 | 0.2565 | 0.26446 | 0.2694 | 0.0036072 | -0.002 | -0.00089 | 0.0006 | 0.00087363 |
| 30 | 0.2571 | 0.26381 | 0.2666 | 0.0031211 | 0.2578 | 0.26326 | 0.2656 | 0.0029841 | -0.0079 | -0.00055 | 0.0085 | 0.0048399 |
| 50 | 0.2561 | 0.26488 | 0.2713 | 0.0046771 | 0.2574 | 0.26463 | 0.2724 | 0.0043648 | -0.0102 | -0.00025 | 0.0074 | 0.0043556 |

# Device Test: 17.144 DLY_TMR_10KOHM(_DELAY|STEP_UP/EN3/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

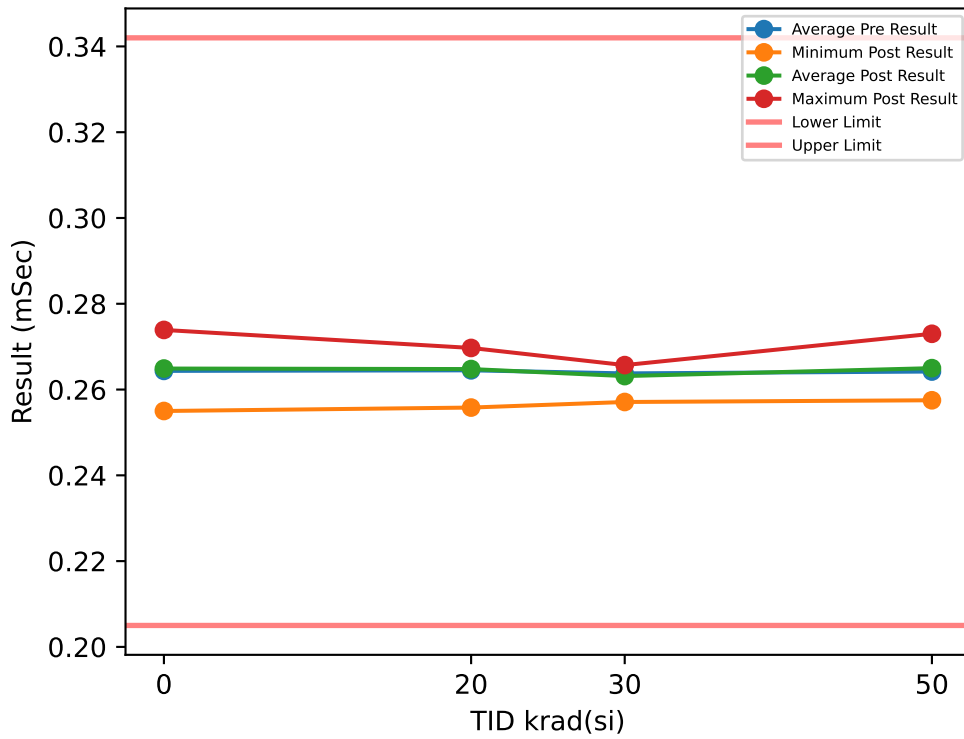| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2685 | 0.2694 | 0.0009 |
| 2 | 20 | Bias | 0.2679 | 0.2687 | 0.0008 |
| 3 | 20 | Bias | 0.2663 | 0.2658 | -0.0005 |
| 4 | 20 | Bias | 0.2663 | 0.2671 | 0.0008 |
| 5 | 20 | Bias | 0.2641 | 0.2631 | -0.001 |
| 6 | 20 | Unbiased | 0.258 | 0.2557 | -0.0023 |
| 7 | 20 | Unbiased | 0.2652 | 0.2653 | 0.0001 |
| 8 | 20 | Unbiased | 0.2659 | 0.2665 | 0.0006 |
| 9 | 20 | Unbiased | 0.2655 | 0.2659 | 0.0004 |
| 10 | 20 | Unbiased | 0.2623 | 0.2636 | 0.0013 |
| 11 | 30 | Bias | 0.2593 | 0.2643 | 0.005 |
| 12 | 30 | Bias | 0.2647 | 0.2592 | -0.0055 |
| 13 | 30 | Bias | 0.2655 | 0.2643 | -0.0012 |
| 14 | 30 | Bias | 0.2645 | 0.2651 | 0.0006 |
| 15 | 30 | Bias | 0.2668 | 0.2643 | -0.0025 |
| 16 | 30 | Unbiased | 0.2642 | 0.266 | 0.0018 |
| 17 | 30 | Unbiased | 0.2641 | 0.2647 | 0.0006 |
| 18 | 30 | Unbiased | 0.2651 | 0.2654 | 0.0003 |
| 19 | 30 | Unbiased | 0.2576 | 0.2665 | 0.0089 |
| 20 | 30 | Unbiased | 0.2656 | 0.2571 | -0.0085 |
| 21 | 50 | Bias | 0.2581 | 0.2647 | 0.0066 |
| 22 | 50 | Bias | 0.258 | 0.2576 | -0.0004 |
| 23 | 50 | Bias | 0.2659 | 0.2572 | -0.0087 |
| 24 | 50 | Bias | 0.264 | 0.2665 | 0.0025 |
| 25 | 50 | Bias | 0.2712 | 0.2715 | 0.0003 |
| 26 | 50 | Unbiased | 0.2683 | 0.268 | -0.0003 |
| 27 | 50 | Unbiased | 0.264 | 0.2627 | -0.0013 |
| 28 | 50 | Unbiased | 0.2644 | 0.2655 | 0.0011 |
| 29 | 50 | Unbiased | 0.2686 | 0.2667 | -0.0019 |
| 30 | 50 | Unbiased | 0.2654 | 0.2654 | 0 |
| 31 | 0 | Correlation | 0.265 | 0.2654 | 0.0004 |
| 32 | 0 | Correlation | 0.2554 | 0.2561 | 0.0007 |
| 33 | 0 | Correlation | 0.2728 | 0.2717 | -0.0011 |
| 34 | 0 | Correlation | 0.2641 | 0.2656 | 0.0015 |

## Test Statistics (mSec)
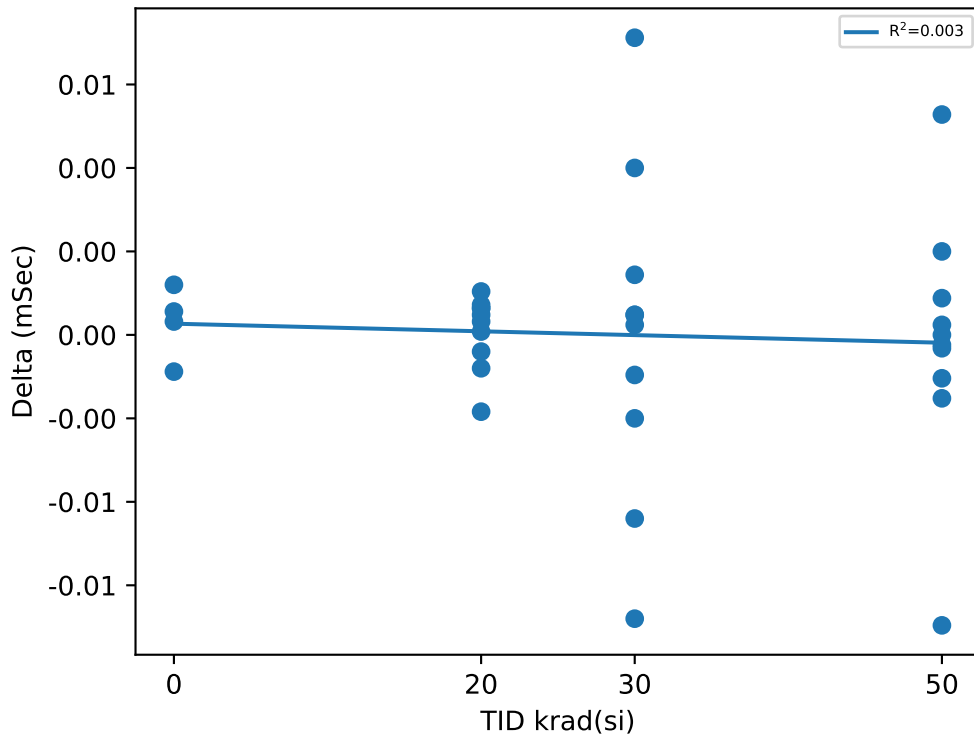
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2554 | 0.26433 | 0.2728 | 0.0071178 | 0.2561 | 0.2647 | 0.2717 | 0.0064358 | -0.0011 | 0.000375 | 0.0015 | 0.0010874 |
| 20 | 0.258 | 0.265 | 0.2685 | 0.0030229 | 0.2557 | 0.26511 | 0.2694 | 0.0038469 | -0.0023 | 0.00011 | 0.0013 | 0.0010918 |
| 30 | 0.2576 | 0.26374 | 0.2668 | 0.0029254 | 0.2571 | 0.26369 | 0.2665 | 0.0030527 | -0.0085 | -5e-05 | 0.0089 | 0.0049264 |
| 50 | 0.258 | 0.26479 | 0.2712 | 0.0042399 | 0.2572 | 0.26458 | 0.2715 | 0.0044224 | -0.0087 | -0.00021 | 0.0066 | 0.0038284 |

# Device Test: 17.145 DLY_TMR_10KOHM(_DELAY|STEP_UP/EN4/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2695 | 0.2681 | -0.0014 |
| 2 | 20 | Bias | 0.2689 | 0.2703 | 0.0014 |
| 3 | 20 | Bias | 0.2644 | 0.265 | 0.0006 |
| 4 | 20 | Bias | 0.2673 | 0.2669 | -0.0004 |
| 5 | 20 | Bias | 0.2627 | 0.2637 | 0.001 |
| 6 | 20 | Unbiased | 0.2572 | 0.257 | -0.0002 |
| 7 | 20 | Unbiased | 0.2662 | 0.2639 | -0.0023 |
| 8 | 20 | Unbiased | 0.2669 | 0.2656 | -0.0013 |
| 9 | 20 | Unbiased | 0.2668 | 0.2659 | -0.0009 |
| 10 | 20 | Unbiased | 0.2632 | 0.2628 | -0.0004 |
| 11 | 30 | Bias | 0.2578 | 0.2642 | 0.0064 |
| 12 | 30 | Bias | 0.2638 | 0.258 | -0.0058 |
| 13 | 30 | Bias | 0.2659 | 0.2634 | -0.0025 |
| 14 | 30 | Bias | 0.2637 | 0.2682 | 0.0045 |
| 15 | 30 | Bias | 0.2688 | 0.2657 | -0.0031 |
| 16 | 30 | Unbiased | 0.2656 | 0.2651 | -0.0005 |
| 17 | 30 | Unbiased | 0.2644 | 0.2646 | 0.0002 |
| 18 | 30 | Unbiased | 0.2655 | 0.2663 | 0.0008 |
| 19 | 30 | Unbiased | 0.258 | 0.2652 | 0.0072 |
| 20 | 30 | Unbiased | 0.267 | 0.2567 | -0.0103 |
| 21 | 50 | Bias | 0.258 | 0.2644 | 0.0064 |
| 22 | 50 | Bias | 0.2579 | 0.2597 | 0.0018 |
| 23 | 50 | Bias | 0.2673 | 0.2569 | -0.0104 |
| 24 | 50 | Bias | 0.2641 | 0.2657 | 0.0016 |
| 25 | 50 | Bias | 0.2719 | 0.2728 | 0.0009 |
| 26 | 50 | Unbiased | 0.2681 | 0.2671 | -0.001 |
| 27 | 50 | Unbiased | 0.2637 | 0.265 | 0.0013 |
| 28 | 50 | Unbiased | 0.2658 | 0.2639 | -0.0019 |
| 29 | 50 | Unbiased | 0.2688 | 0.2676 | -0.0012 |
| 30 | 50 | Unbiased | 0.2649 | 0.2666 | 0.0017 |
| 31 | 0 | Correlation | 0.2654 | 0.2649 | -0.0005 |
| 32 | 0 | Correlation | 0.2564 | 0.2573 | 0.0009 |
| 33 | 0 | Correlation | 0.2732 | 0.2734 | 0.0002 |
| 34 | 0 | Correlation | 0.2636 | 0.2646 | 0.001 |

## Test Statistics (mSec)
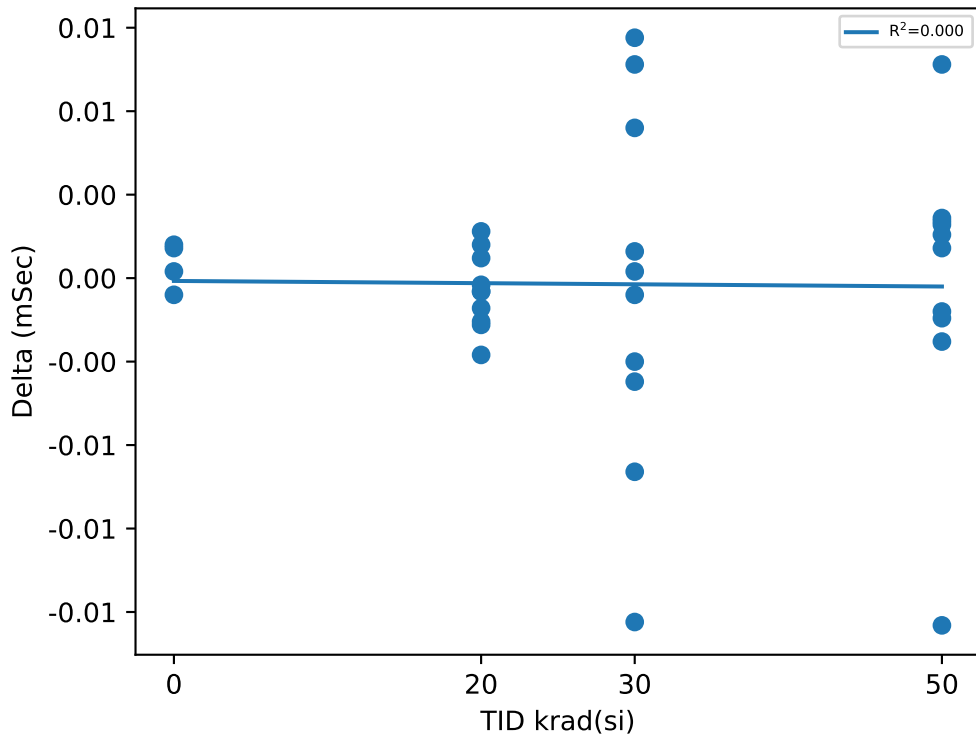
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2564 | 0.26465 | 0.2732 | 0.0069 | 0.2573 | 0.26505 | 0.2734 | 0.0065831 | -0.0005 | 0.0004 | 0.001 | 0.00069761 |
| 20 | 0.2572 | 0.26531 | 0.2695 | 0.003618 | 0.257 | 0.26492 | 0.2703 | 0.0035615 | -0.0023 | -0.00039 | 0.0014 | 0.0011503 |
| 30 | 0.2578 | 0.26405 | 0.2688 | 0.0035772 | 0.2567 | 0.26374 | 0.2682 | 0.0036185 | -0.0103 | -0.00031 | 0.0072 | 0.0054631 |
| 50 | 0.2579 | 0.26505 | 0.2719 | 0.0044657 | 0.2569 | 0.26497 | 0.2728 | 0.0043502 | -0.0104 | -8e-05 | 0.0064 | 0.0042985 |
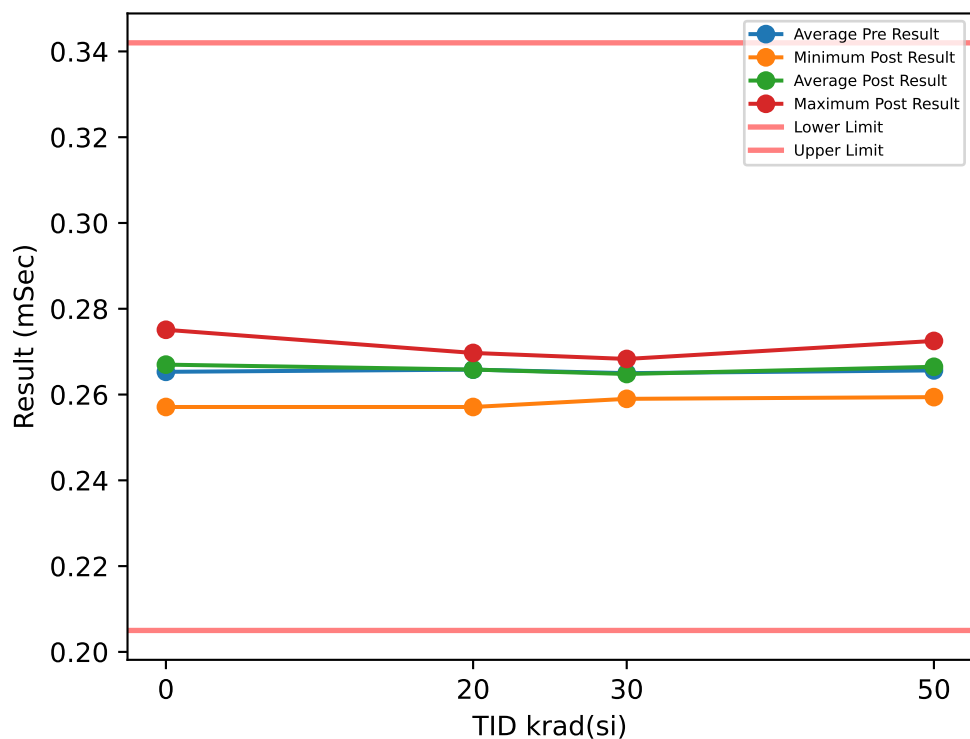
# Device Test: 17.146 DLY_TMR_10KOHM(_DELAY|STEP_UP/SEQ_DONE/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

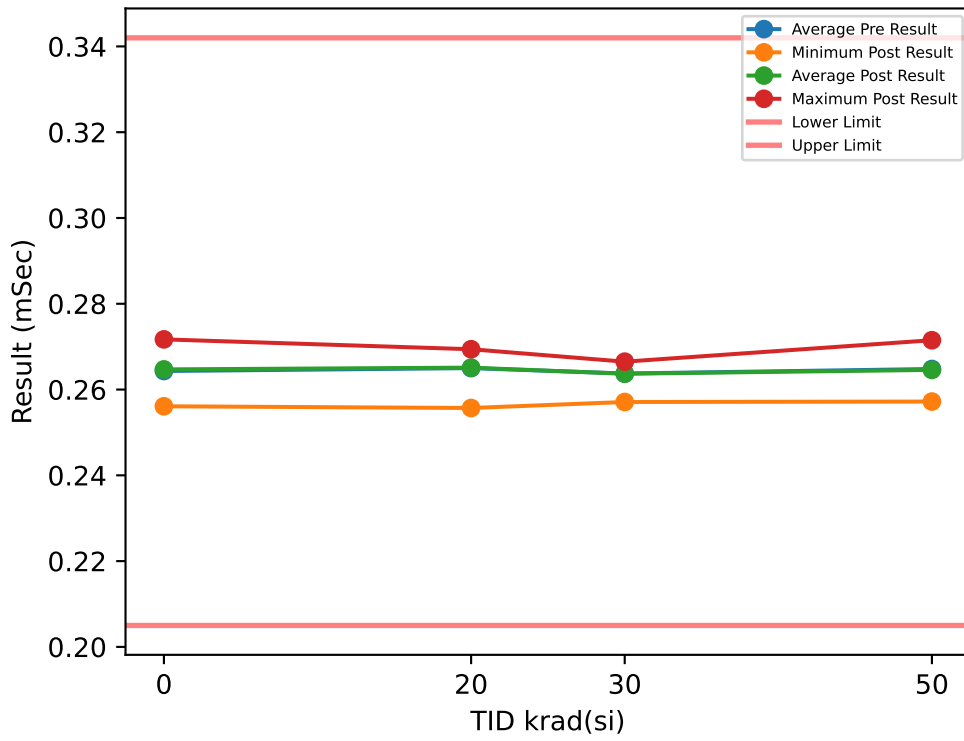| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2702 | 0.2697 | -0.0005 |
| 2 | 20 | Bias | 0.2683 | 0.2687 | 0.0004 |
| 3 | 20 | Bias | 0.2661 | 0.2664 | 0.0003 |
| 4 | 20 | Bias | 0.269 | 0.2671 | -0.0019 |
| 5 | 20 | Bias | 0.2647 | 0.2645 | -0.0002 |
| 6 | 20 | Unbiased | 0.2575 | 0.2571 | -0.0004 |
| 7 | 20 | Unbiased | 0.2665 | 0.2651 | -0.0014 |
| 8 | 20 | Unbiased | 0.2662 | 0.2676 | 0.0014 |
| 9 | 20 | Unbiased | 0.2658 | 0.2671 | 0.0013 |
| 10 | 20 | Unbiased | 0.2638 | 0.265 | 0.0012 |
| 11 | 30 | Bias | 0.2606 | 0.2655 | 0.0049 |
| 12 | 30 | Bias | 0.266 | 0.259 | -0.007 |
| 13 | 30 | Bias | 0.2663 | 0.2648 | -0.0015 |
| 14 | 30 | Bias | 0.2643 | 0.2665 | 0.0022 |
| 15 | 30 | Bias | 0.267 | 0.2658 | -0.0012 |
| 16 | 30 | Unbiased | 0.2651 | 0.2683 | 0.0032 |
| 17 | 30 | Unbiased | 0.2671 | 0.2648 | -0.0023 |
| 18 | 30 | Unbiased | 0.2681 | 0.2664 | -0.0017 |
| 19 | 30 | Unbiased | 0.2595 | 0.2678 | 0.0083 |
| 20 | 30 | Unbiased | 0.2659 | 0.259 | -0.0069 |
| 21 | 50 | Bias | 0.2589 | 0.2686 | 0.0097 |
| 22 | 50 | Bias | 0.2583 | 0.2597 | 0.0014 |
| 23 | 50 | Bias | 0.2681 | 0.2594 | -0.0087 |
| 24 | 50 | Bias | 0.2644 | 0.2674 | 0.003 |
| 25 | 50 | Bias | 0.2733 | 0.2725 | -0.0008 |
| 26 | 50 | Unbiased | 0.2681 | 0.2686 | 0.0005 |
| 27 | 50 | Unbiased | 0.2647 | 0.2661 | 0.0014 |
| 28 | 50 | Unbiased | 0.2648 | 0.2664 | 0.0016 |
| 29 | 50 | Unbiased | 0.2686 | 0.2688 | 0.0002 |
| 30 | 50 | Unbiased | 0.2671 | 0.2672 | 0.0001 |
| 31 | 0 | Correlation | 0.2673 | 0.2677 | 0.0004 |
| 32 | 0 | Correlation | 0.2563 | 0.2571 | 0.0008 |
| 33 | 0 | Correlation | 0.2733 | 0.2751 | 0.0018 |
| 34 | 0 | Correlation | 0.2643 | 0.268 | 0.0037 |

## Test Statistics (mSec)
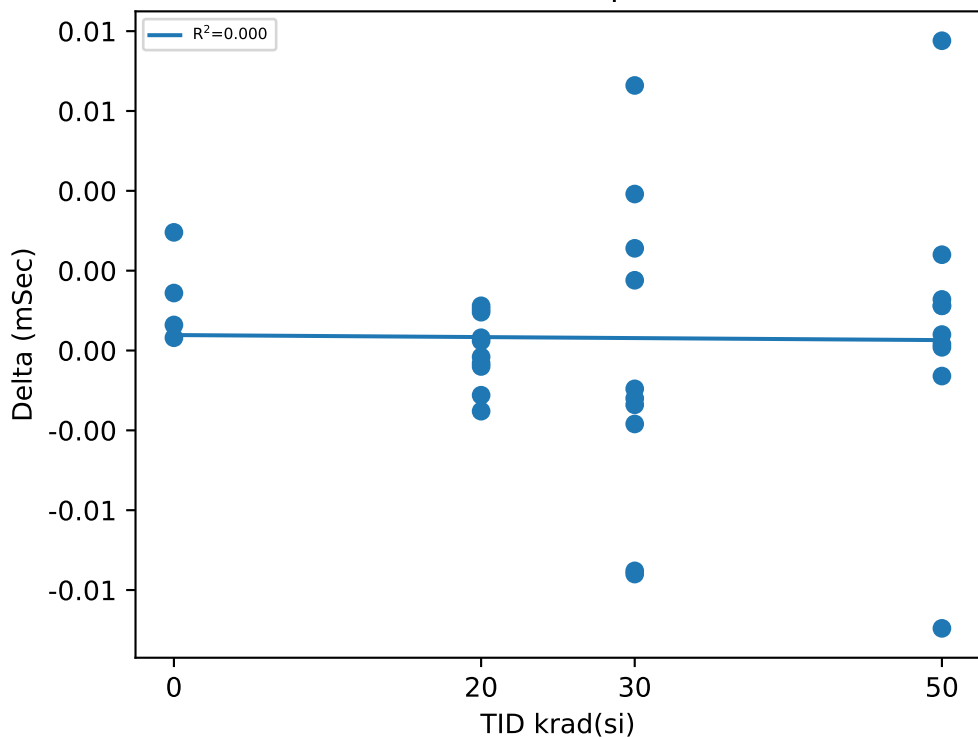
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2563 | 0.2653 | 0.2733 | 0.0070711 | 0.2571 | 0.26698 | 0.2751 | 0.0074186 | 0.0004 | 0.001675 | 0.0037 | 0.0014728 |
| 20 | 0.2575 | 0.26581 | 0.2702 | 0.003507 | 0.2571 | 0.26583 | 0.2697 | 0.0034817 | -0.0019 | 2e-05 | 0.0014 | 0.0011233 |
| 30 | 0.2595 | 0.26499 | 0.2681 | 0.0028211 | 0.259 | 0.26479 | 0.2683 | 0.0032569 | -0.007 | -0.0002 | 0.0083 | 0.0048997 |
| 50 | 0.2583 | 0.26563 | 0.2733 | 0.0045228 | 0.2594 | 0.26647 | 0.2725 | 0.0040582 | -0.0087 | 0.00084 | 0.0097 | 0.0044615 |
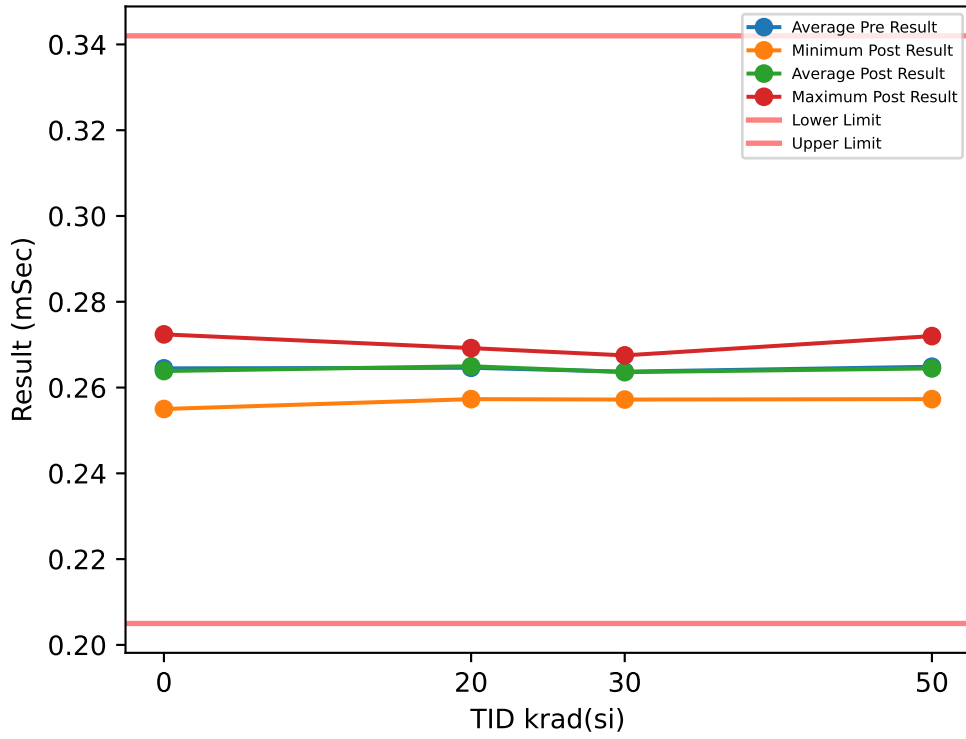
# Device Test: 17.147 DLY_TMR_10KOHM(_DELAY|STEP_UP/PWRGD/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

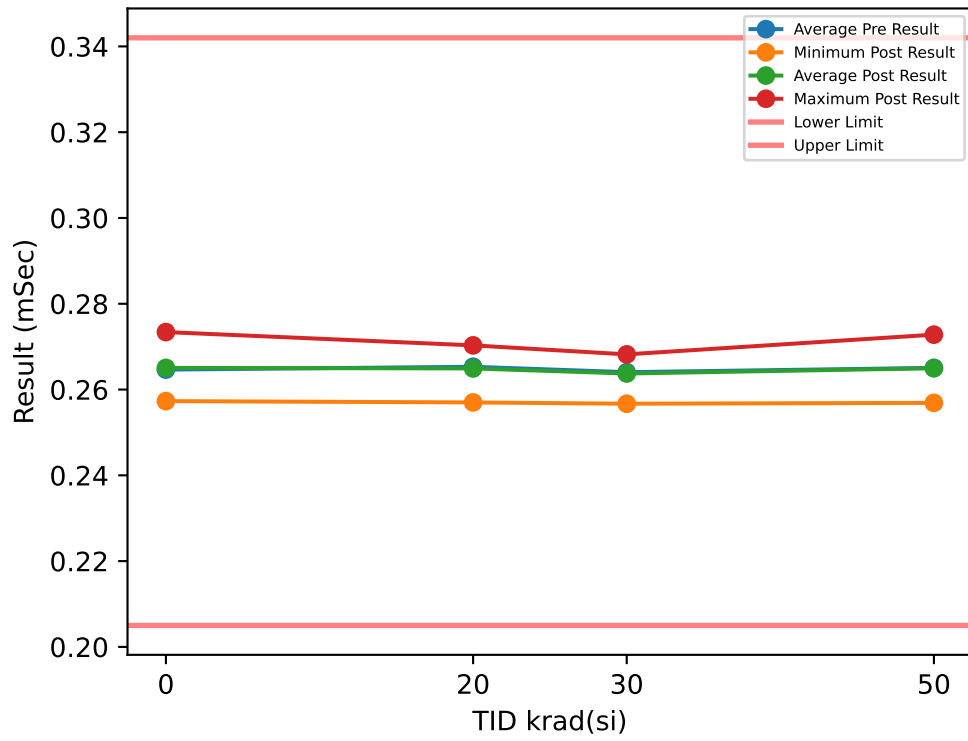| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2683 | 0.2692 | 0.0009 |
| 2 | 20 | Bias | 0.2689 | 0.2689 | 0 |
| 3 | 20 | Bias | 0.2642 | 0.2644 | 0.0002 |
| 4 | 20 | Bias | 0.2668 | 0.2664 | -0.0004 |
| 5 | 20 | Bias | 0.263 | 0.2639 | 0.0009 |
| 6 | 20 | Unbiased | 0.2568 | 0.2573 | 0.0005 |
| 7 | 20 | Unbiased | 0.265 | 0.2637 | -0.0013 |
| 8 | 20 | Unbiased | 0.2657 | 0.2651 | -0.0006 |
| 9 | 20 | Unbiased | 0.2647 | 0.2676 | 0.0029 |
| 10 | 20 | Unbiased | 0.2627 | 0.2632 | 0.0005 |
| 11 | 30 | Bias | 0.2576 | 0.2643 | 0.0067 |
| 12 | 30 | Bias | 0.2645 | 0.2582 | -0.0063 |
| 13 | 30 | Bias | 0.2653 | 0.2636 | -0.0017 |
| 14 | 30 | Bias | 0.2657 | 0.2664 | 0.0007 |
| 15 | 30 | Bias | 0.2657 | 0.2646 | -0.0011 |
| 16 | 30 | Unbiased | 0.2641 | 0.2675 | 0.0034 |
| 17 | 30 | Unbiased | 0.2652 | 0.2643 | -0.0009 |
| 18 | 30 | Unbiased | 0.2669 | 0.2642 | -0.0027 |
| 19 | 30 | Unbiased | 0.257 | 0.2656 | 0.0086 |
| 20 | 30 | Unbiased | 0.265 | 0.2572 | -0.0078 |
| 21 | 50 | Bias | 0.2591 | 0.2651 | 0.006 |
| 22 | 50 | Bias | 0.257 | 0.2573 | 0.0003 |
| 23 | 50 | Bias | 0.2672 | 0.2581 | -0.0091 |
| 24 | 50 | Bias | 0.2648 | 0.2646 | -0.0002 |
| 25 | 50 | Bias | 0.2721 | 0.272 | -0.0001 |
| 26 | 50 | Unbiased | 0.2668 | 0.268 | 0.0012 |
| 27 | 50 | Unbiased | 0.2643 | 0.2631 | -0.0012 |
| 28 | 50 | Unbiased | 0.2643 | 0.2639 | -0.0004 |
| 29 | 50 | Unbiased | 0.2678 | 0.2664 | -0.0014 |
| 30 | 50 | Unbiased | 0.2651 | 0.2661 | 0.001 |
| 31 | 0 | Correlation | 0.2661 | 0.2644 | -0.0017 |
| 32 | 0 | Correlation | 0.2562 | 0.255 | -0.0012 |
| 33 | 0 | Correlation | 0.2725 | 0.2724 | -0.0001 |
| 34 | 0 | Correlation | 0.2631 | 0.2636 | 0.0005 |

## Test Statistics (mSec)
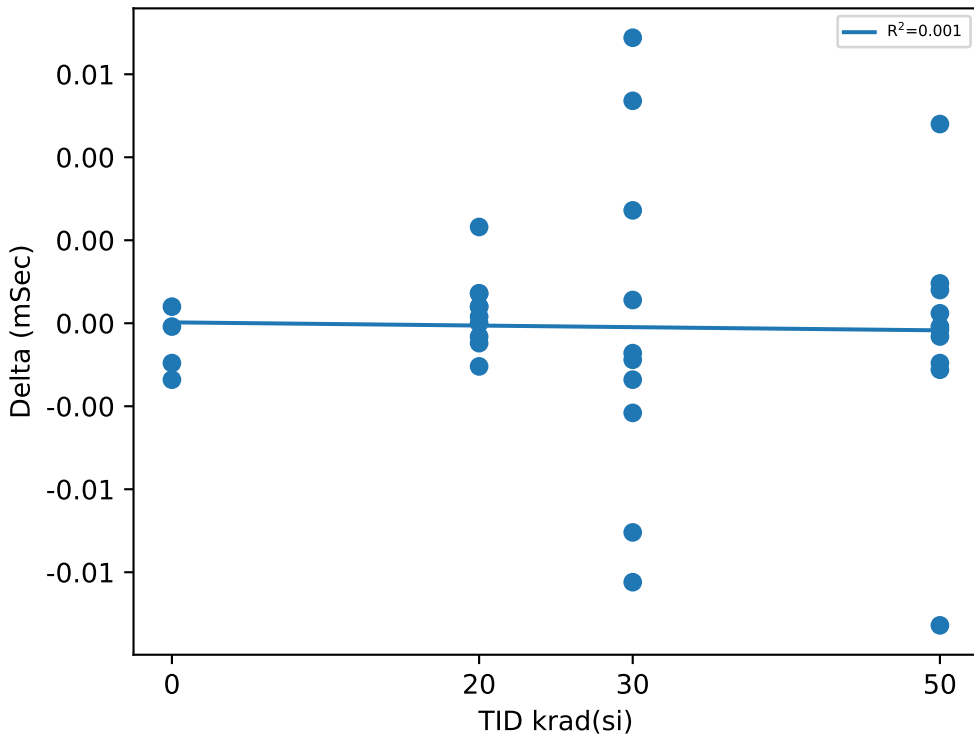
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2562 | 0.26448 | 0.2725 | 0.0067678 | 0.255 | 0.26385 | 0.2724 | 0.0071131 | -0.0017 | -0.000625 | 0.0005 | 0.0010046 |
| 20 | 0.2568 | 0.26461 | 0.2689 | 0.0034249 | 0.2573 | 0.26497 | 0.2692 | 0.0034538 | -0.0013 | 0.00036 | 0.0029 | 0.0011296 |
| 30 | 0.257 | 0.2637 | 0.2669 | 0.0034583 | 0.2572 | 0.26359 | 0.2675 | 0.0033251 | -0.0078 | -0.00011 | 0.0086 | 0.0052016 |
| 50 | 0.257 | 0.26485 | 0.2721 | 0.004294 | 0.2573 | 0.26446 | 0.272 | 0.004348 | -0.0091 | -0.00039 | 0.006 | 0.0037033 |
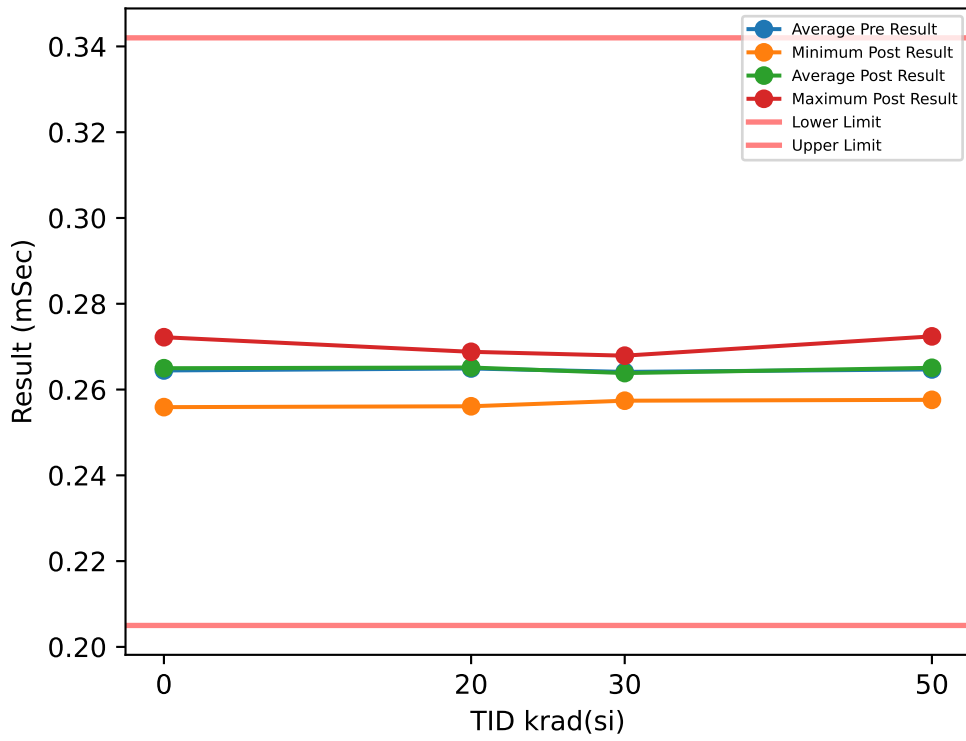
# Device Test: 17.148 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN1/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2677 | 0.2679 | 0.0002 |
| 2 | 20 | Bias | 0.2683 | 0.2688 | 0.0005 |
| 3 | 20 | Bias | 0.2647 | 0.2637 | -0.001 |
| 4 | 20 | Bias | 0.2674 | 0.2675 | 0.0001 |
| 5 | 20 | Bias | 0.264 | 0.2641 | 0.0001 |
| 6 | 20 | Unbiased | 0.2556 | 0.2561 | 0.0005 |
| 7 | 20 | Unbiased | 0.2655 | 0.2655 | 0 |
| 8 | 20 | Unbiased | 0.2673 | 0.2686 | 0.0013 |
| 9 | 20 | Unbiased | 0.2662 | 0.265 | -0.0012 |
| 10 | 20 | Unbiased | 0.2624 | 0.2642 | 0.0018 |
| 11 | 30 | Bias | 0.2586 | 0.2638 | 0.0052 |
| 12 | 30 | Bias | 0.2654 | 0.2574 | -0.008 |
| 13 | 30 | Bias | 0.2665 | 0.2643 | -0.0022 |
| 14 | 30 | Bias | 0.2658 | 0.265 | -0.0008 |
| 15 | 30 | Bias | 0.2659 | 0.2641 | -0.0018 |
| 16 | 30 | Unbiased | 0.2648 | 0.2679 | 0.0031 |
| 17 | 30 | Unbiased | 0.265 | 0.2645 | -0.0005 |
| 18 | 30 | Unbiased | 0.2641 | 0.2668 | 0.0027 |
| 19 | 30 | Unbiased | 0.2586 | 0.2662 | 0.0076 |
| 20 | 30 | Unbiased | 0.2665 | 0.2584 | -0.0081 |
| 21 | 50 | Bias | 0.2591 | 0.2657 | 0.0066 |
| 22 | 50 | Bias | 0.2585 | 0.2584 | -0.0001 |
| 23 | 50 | Bias | 0.2661 | 0.2576 | -0.0085 |
| 24 | 50 | Bias | 0.2634 | 0.266 | 0.0026 |
| 25 | 50 | Bias | 0.2725 | 0.2724 | -0.0001 |
| 26 | 50 | Unbiased | 0.2686 | 0.2673 | -0.0013 |
| 27 | 50 | Unbiased | 0.2643 | 0.2644 | 0.0001 |
| 28 | 50 | Unbiased | 0.2634 | 0.2637 | 0.0003 |
| 29 | 50 | Unbiased | 0.2661 | 0.2682 | 0.0021 |
| 30 | 50 | Unbiased | 0.2649 | 0.267 | 0.0021 |
| 31 | 0 | Correlation | 0.2638 | 0.2657 | 0.0019 |
| 32 | 0 | Correlation | 0.2562 | 0.2559 | -0.0003 |
| 33 | 0 | Correlation | 0.2732 | 0.2722 | -0.001 |
| 34 | 0 | Correlation | 0.2646 | 0.2661 | 0.0015 |

## Test Statistics (mSec)
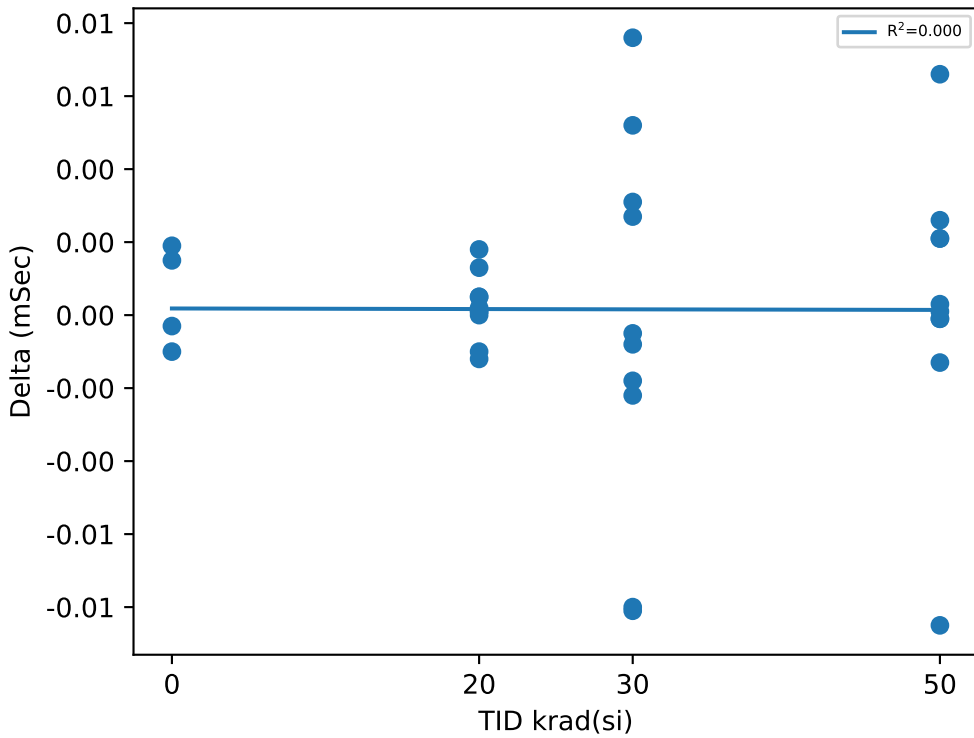
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2562 | 0.26445 | 0.2732 | 0.0069539 | 0.2559 | 0.26498 | 0.2722 | 0.0067416 | -0.001 | 0.000525 | 0.0019 | 0.0013961 |
| 20 | 0.2556 | 0.26491 | 0.2683 | 0.0037572 | 0.2561 | 0.26514 | 0.2688 | 0.0037188 | -0.0012 | 0.00023 | 0.0018 | 0.00090683 |
| 30 | 0.2586 | 0.26412 | 0.2665 | 0.0030025 | 0.2574 | 0.26384 | 0.2679 | 0.0033984 | -0.0081 | -0.00028 | 0.0076 | 0.0051586 |
| 50 | 0.2585 | 0.26469 | 0.2725 | 0.0041278 | 0.2576 | 0.26507 | 0.2724 | 0.0044234 | -0.0085 | 0.00038 | 0.0066 | 0.0038262 |
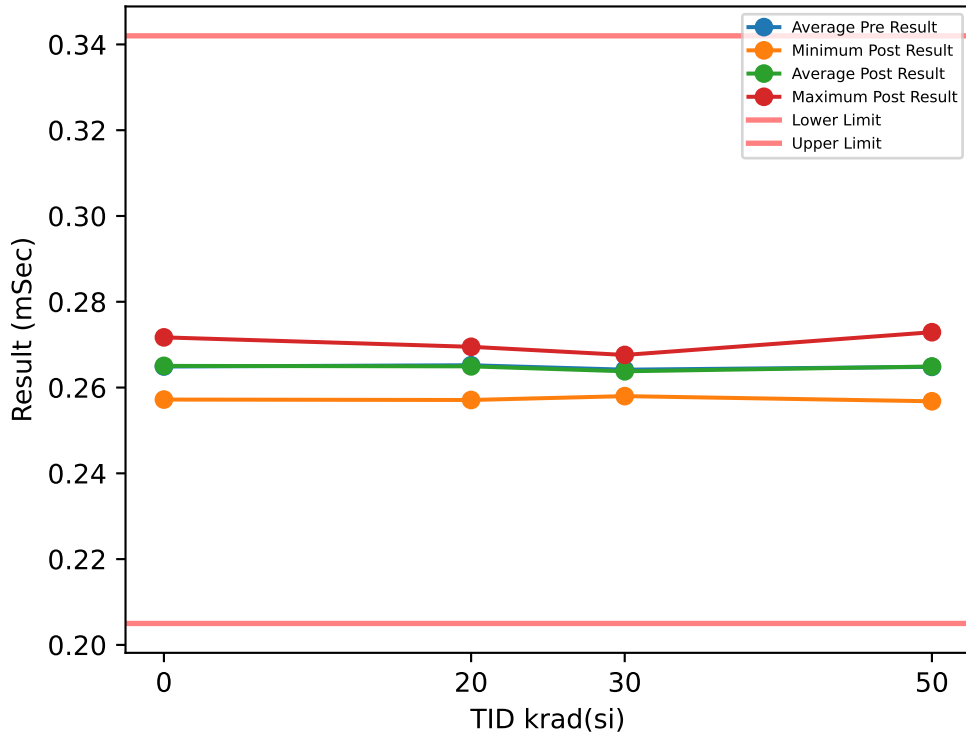
# Device Test: 17.149 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN2/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2679 | 0.2694 | 0.0015 |
| 2 | 20 | Bias | 0.2684 | 0.2681 | -0.0003 |
| 3 | 20 | Bias | 0.2666 | 0.2637 | -0.0029 |
| 4 | 20 | Bias | 0.2661 | 0.2695 | 0.0034 |
| 5 | 20 | Bias | 0.2642 | 0.2641 | -0.0001 |
| 6 | 20 | Unbiased | 0.2576 | 0.2571 | -0.0005 |
| 7 | 20 | Unbiased | 0.2649 | 0.2638 | -0.0011 |
| 8 | 20 | Unbiased | 0.2666 | 0.2654 | -0.0012 |
| 9 | 20 | Unbiased | 0.2664 | 0.2647 | -0.0017 |
| 10 | 20 | Unbiased | 0.2633 | 0.2636 | 0.0003 |
| 11 | 30 | Bias | 0.2579 | 0.2642 | 0.0063 |
| 12 | 30 | Bias | 0.2642 | 0.2592 | -0.005 |
| 13 | 30 | Bias | 0.2669 | 0.2646 | -0.0023 |
| 14 | 30 | Bias | 0.2647 | 0.2652 | 0.0005 |
| 15 | 30 | Bias | 0.2669 | 0.2648 | -0.0021 |
| 16 | 30 | Unbiased | 0.2655 | 0.2649 | -0.0006 |
| 17 | 30 | Unbiased | 0.2659 | 0.264 | -0.0019 |
| 18 | 30 | Unbiased | 0.2647 | 0.2676 | 0.0029 |
| 19 | 30 | Unbiased | 0.2585 | 0.2654 | 0.0069 |
| 20 | 30 | Unbiased | 0.2665 | 0.258 | -0.0085 |
| 21 | 50 | Bias | 0.2578 | 0.2645 | 0.0067 |
| 22 | 50 | Bias | 0.2579 | 0.2587 | 0.0008 |
| 23 | 50 | Bias | 0.2662 | 0.2568 | -0.0094 |
| 24 | 50 | Bias | 0.2635 | 0.2675 | 0.004 |
| 25 | 50 | Bias | 0.2723 | 0.2729 | 0.0006 |
| 26 | 50 | Unbiased | 0.2676 | 0.2669 | -0.0007 |
| 27 | 50 | Unbiased | 0.2653 | 0.2644 | -0.0009 |
| 28 | 50 | Unbiased | 0.2639 | 0.2647 | 0.0008 |
| 29 | 50 | Unbiased | 0.2677 | 0.2664 | -0.0013 |
| 30 | 50 | Unbiased | 0.266 | 0.2663 | 0.0003 |
| 31 | 0 | Correlation | 0.2665 | 0.2653 | -0.0012 |
| 32 | 0 | Correlation | 0.2554 | 0.2572 | 0.0018 |
| 33 | 0 | Correlation | 0.2734 | 0.2717 | -0.0017 |
| 34 | 0 | Correlation | 0.2643 | 0.266 | 0.0017 |

## Test Statistics (mSec)
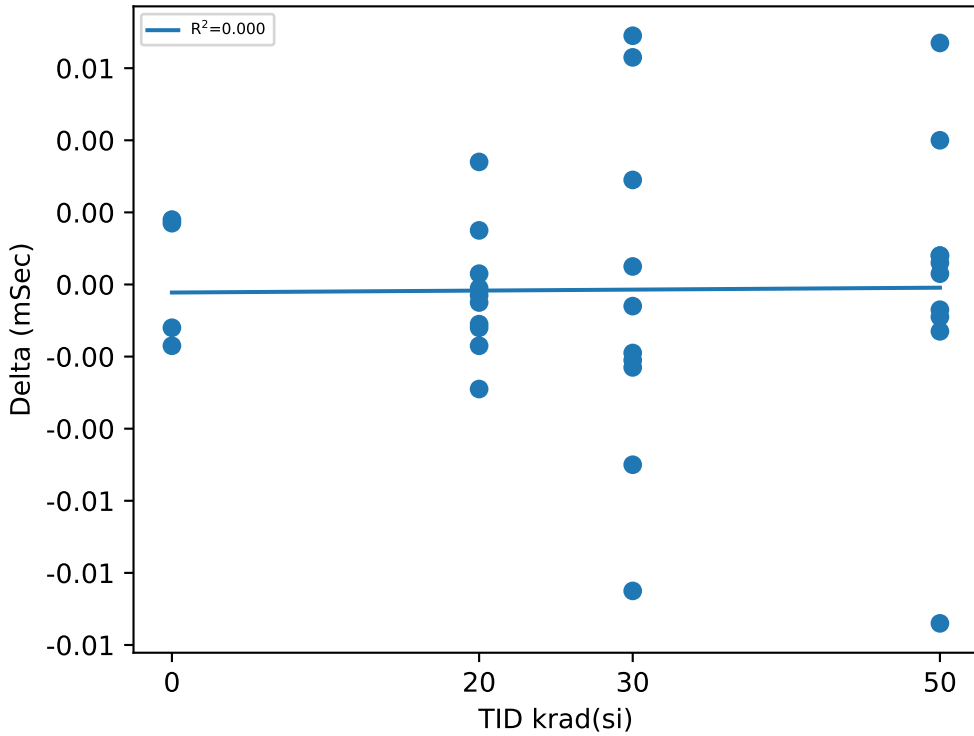
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2554 | 0.2649 | 0.2734 | 0.0074256 | 0.2572 | 0.26505 | 0.2717 | 0.0059669 | -0.0017 | 0.00015 | 0.0018 | 0.0018592 |
| 20 | 0.2576 | 0.2652 | 0.2684 | 0.0030941 | 0.2571 | 0.26494 | 0.2695 | 0.003617 | -0.0029 | -0.00026 | 0.0034 | 0.0017488 |
| 30 | 0.2579 | 0.26417 | 0.2669 | 0.003285 | 0.258 | 0.26379 | 0.2676 | 0.0029214 | -0.0085 | -0.00038 | 0.0069 | 0.0047777 |
| 50 | 0.2578 | 0.26482 | 0.2723 | 0.0044128 | 0.2568 | 0.26491 | 0.2729 | 0.004515 | -0.0094 | 9e-05 | 0.0067 | 0.0041351 |

# Device Test: 17.15  TPD_EN(_DELAY|STEP_UP/EN3/1.6/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.0985 | 3.3095 | 0.211 |
| 2 | 20 | Bias | 3.4304 | 3.2026 | -0.2278 |
| 3 | 20 | Bias | 3.348 | 3.2251 | -0.1229 |
| 4 | 20 | Bias | 3.3484 | 3.3058 | -0.0426 |
| 5 | 20 | Bias | 3.1738 | 3.2067 | 0.0329 |
| 6 | 20 | Unbiased | 3.2658 | 3.2472 | -0.0186 |
| 7 | 20 | Unbiased | 3.2011 | 3.1767 | -0.0244 |
| 8 | 20 | Unbiased | 3.2692 | 3.4585 | 0.1893 |
| 9 | 20 | Unbiased | 3.2992 | 3.2502 | -0.049 |
| 10 | 20 | Unbiased | 3.0285 | 3.399 | 0.3705 |
| 11 | 30 | Bias | 3.4235 | 3.1469 | -0.2766 |
| 12 | 30 | Bias | 2.9272 | 3.0327 | 0.1055 |
| 13 | 30 | Bias | 3.2331 | 3.0457 | -0.1874 |
| 14 | 30 | Bias | 3.4471 | 3.3362 | -0.1109 |
| 15 | 30 | Bias | 2.9775 | 2.9678 | -0.0097 |
| 16 | 30 | Unbiased | 3.3959 | 3.1304 | -0.2655 |
| 17 | 30 | Unbiased | 3.0409 | 3.2926 | 0.2517 |
| 18 | 30 | Unbiased | 3.2014 | 3.2252 | 0.0238 |
| 19 | 30 | Unbiased | 3.3461 | 3.1895 | -0.1566 |
| 20 | 30 | Unbiased | 3.0677 | 3.2597 | 0.192 |
| 21 | 50 | Bias | 3.3909 | 3.161 | -0.2299 |
| 22 | 50 | Bias | 2.9497 | 3.1501 | 0.2004 |
| 23 | 50 | Bias | 3.0782 | 3.2742 | 0.196 |
| 24 | 50 | Bias | 3.4842 | 3.1434 | -0.3408 |
| 25 | 50 | Bias | 3.4537 | 3.0348 | -0.4189 |
| 26 | 50 | Unbiased | 3.1057 | 3.1268 | 0.0211 |
| 27 | 50 | Unbiased | 2.9842 | 3.0166 | 0.0324 |
| 28 | 50 | Unbiased | 3.1469 | 3.2548 | 0.1079 |
| 29 | 50 | Unbiased | 3.3057 | 3.2533 | -0.0524 |
| 30 | 50 | Unbiased | 3.1158 | 3.2217 | 0.1059 |
| 31 | 0 | Correlation | 3.4468 | 3.3822 | -0.0646 |
| 32 | 0 | Correlation | 3.3473 | 3.1889 | -0.1584 |
| 33 | 0 | Correlation | 3.3066 | 3.2771 | -0.0295 |
| 34 | 0 | Correlation | 3.3212 | 3.2954 | -0.0258 |

## Test Statistics (uSec)
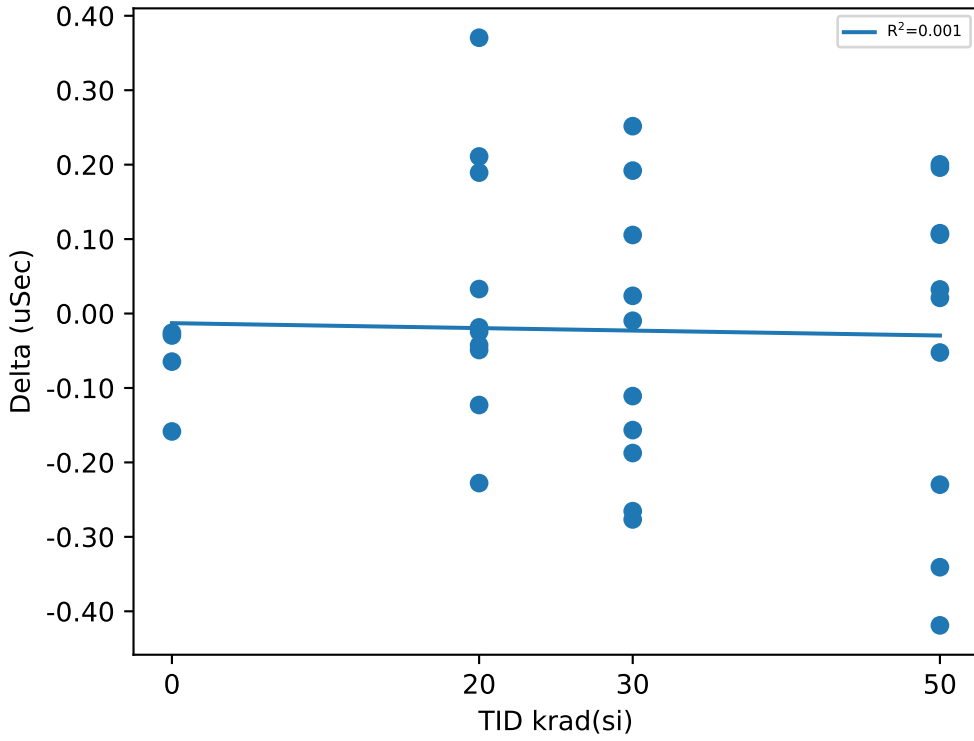
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.3066 | 3.3555 | 3.4468 | 0.063168 | 3.1889 | 3.2859 | 3.3822 | 0.079268 | -0.1584 | -0.069575 | -0.0258 | 0.061744 |
| 20 | 3.0285 | 3.2463 | 3.4304 | 0.12245 | 3.1767 | 3.2781 | 3.4585 | 0.091005 | -0.2278 | 0.03184 | 0.3705 | 0.17661 |
| 30 | 2.9272 | 3.206 | 3.4471 | 0.19385 | 2.9678 | 3.1627 | 3.3362 | 0.12059 | -0.2766 | -0.04337 | 0.2517 | 0.18623 |
| 50 | 2.9497 | 3.2015 | 3.4842 | 0.1931 | 3.0166 | 3.1637 | 3.2742 | 0.089518 | -0.4189 | -0.03783 | 0.2004 | 0.22006 |
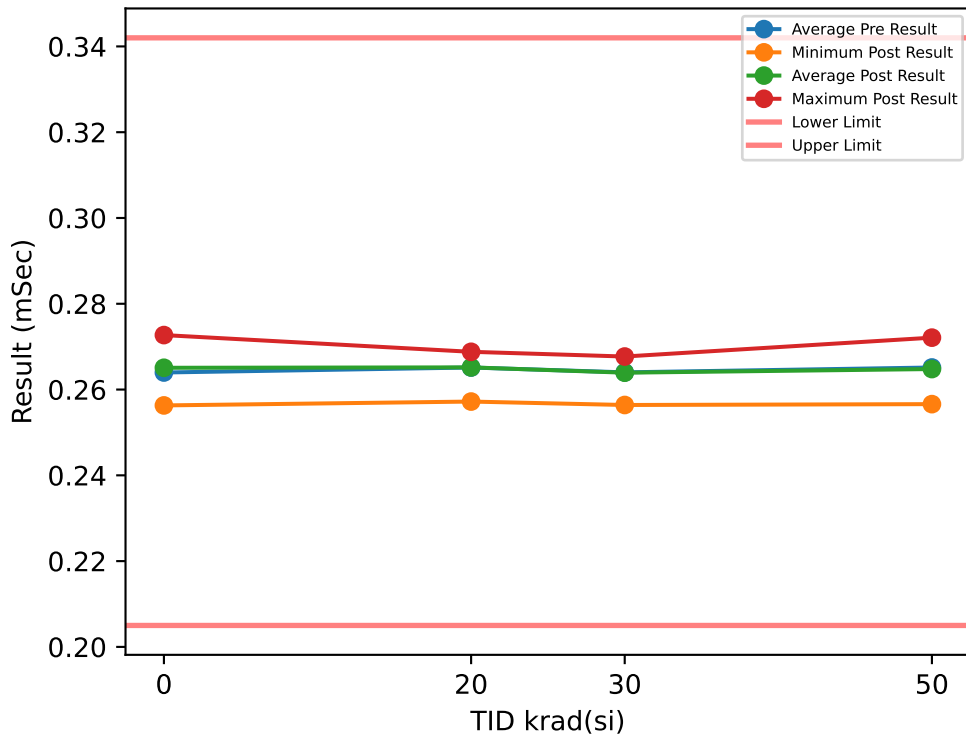
# Device Test: 17.150 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN3/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 0.2687 | 0.2688 | 0.0001 |
| 2 | 20 | Bias | 0.2676 | 0.2681 | 0.0005 |
| 3 | 20 | Bias | 0.2654 | 0.2651 | -0.0003 |
| 4 | 20 | Bias | 0.2677 | 0.266 | -0.0017 |
| 5 | 20 | Bias | 0.265 | 0.2639 | -0.0011 |
| 6 | 20 | Unbiased | 0.2571 | 0.2572 | 0.0001 |
| 7 | 20 | Unbiased | 0.2655 | 0.2664 | 0.0009 |
| 8 | 20 | Unbiased | 0.2657 | 0.2667 | 0.001 |
| 9 | 20 | Unbiased | 0.2653 | 0.2659 | 0.0006 |
| 10 | 20 | Unbiased | 0.2634 | 0.2636 | 0.0002 |
| 11 | 30 | Bias | 0.2576 | 0.2655 | 0.0079 |
| 12 | 30 | Bias | 0.2645 | 0.2581 | -0.0064 |
| 13 | 30 | Bias | 0.2672 | 0.2644 | -0.0028 |
| 14 | 30 | Bias | 0.266 | 0.2665 | 0.0005 |
| 15 | 30 | Bias | 0.2653 | 0.2677 | 0.0024 |
| 16 | 30 | Unbiased | 0.2641 | 0.2648 | 0.0007 |
| 17 | 30 | Unbiased | 0.2649 | 0.2635 | -0.0014 |
| 18 | 30 | Unbiased | 0.2674 | 0.2658 | -0.0016 |
| 19 | 30 | Unbiased | 0.2585 | 0.2666 | 0.0081 |
| 20 | 30 | Unbiased | 0.2646 | 0.2564 | -0.0082 |
| 21 | 50 | Bias | 0.2585 | 0.2645 | 0.006 |
| 22 | 50 | Bias | 0.2567 | 0.258 | 0.0013 |
| 23 | 50 | Bias | 0.2664 | 0.2566 | -0.0098 |
| 24 | 50 | Bias | 0.2634 | 0.2658 | 0.0024 |
| 25 | 50 | Bias | 0.2722 | 0.2721 | -0.0001 |
| 26 | 50 | Unbiased | 0.2702 | 0.2673 | -0.0029 |
| 27 | 50 | Unbiased | 0.2634 | 0.2637 | 0.0003 |
| 28 | 50 | Unbiased | 0.2649 | 0.2657 | 0.0008 |
| 29 | 50 | Unbiased | 0.2698 | 0.2663 | -0.0035 |
| 30 | 50 | Unbiased | 0.2659 | 0.2678 | 0.0019 |
| 31 | 0 | Correlation | 0.2643 | 0.2663 | 0.002 |
| 32 | 0 | Correlation | 0.2551 | 0.2563 | 0.0012 |
| 33 | 0 | Correlation | 0.2717 | 0.2727 | 0.001 |
| 34 | 0 | Correlation | 0.2648 | 0.265 | 0.0002 |

## Test Statistics (mSec)
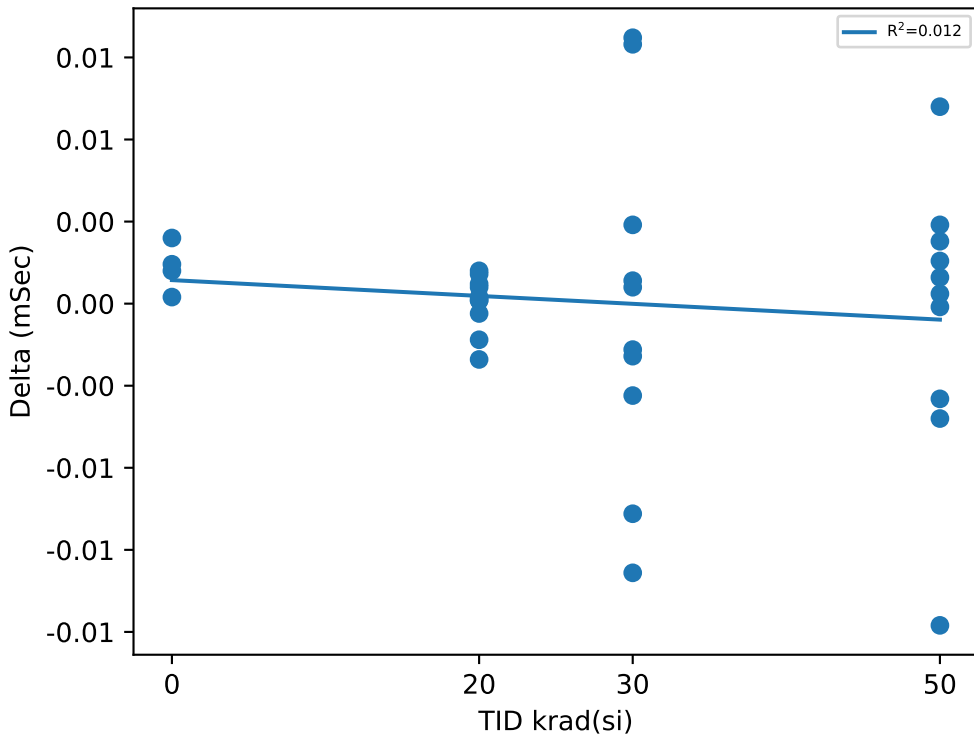
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2551 | 0.26397 | 0.2717 | 0.0068124 | 0.2563 | 0.26508 | 0.2727 | 0.006749 | 0.0002 | 0.0011 | 0.002 | 0.00073937 |
| 20 | 0.2571 | 0.26514 | 0.2687 | 0.0032232 | 0.2572 | 0.26517 | 0.2688 | 0.0032394 | -0.0017 | 3e-05 | 0.001 | 0.0008603 |
| 30 | 0.2576 | 0.26401 | 0.2674 | 0.0033355 | 0.2564 | 0.26393 | 0.2677 | 0.0037381 | -0.0082 | -8e-05 | 0.0081 | 0.0053231 |
| 50 | 0.2567 | 0.26514 | 0.2722 | 0.0049527 | 0.2566 | 0.26478 | 0.2721 | 0.0045628 | -0.0098 | -0.00036 | 0.006 | 0.0042584 |
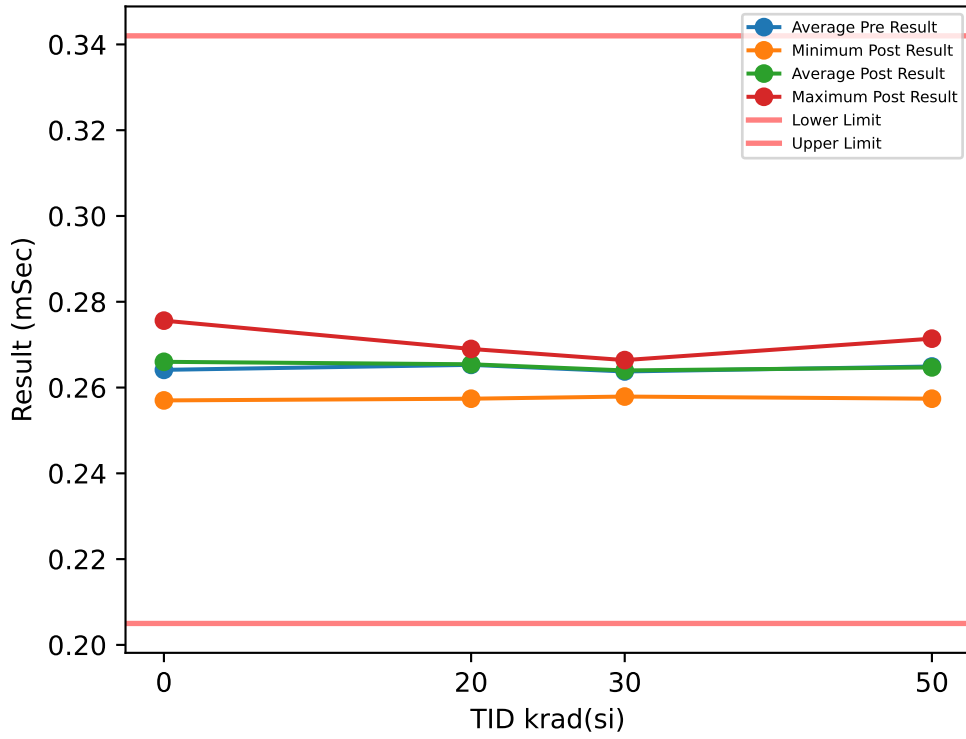
# Device Test: 17.151 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN4/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

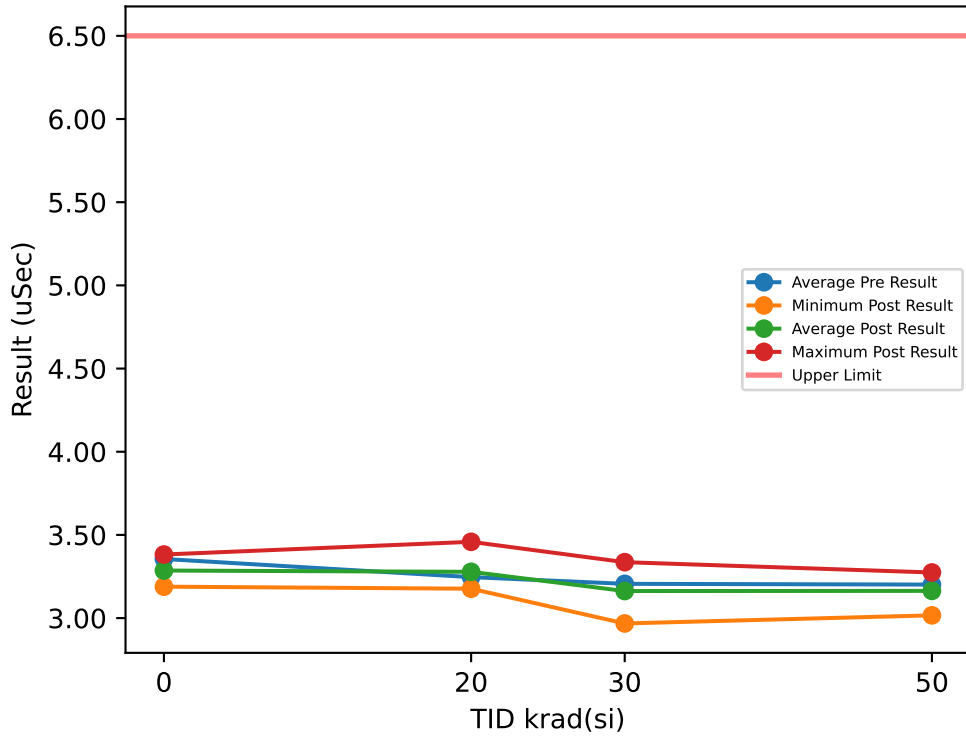| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 0.2708 | 0.2686 | -0.0022 |
| 2 | 20 | Bias | 0.2678 | 0.269 | 0.0012 |
| 3 | 20 | Bias | 0.2639 | 0.2659 | 0.002 |
| 4 | 20 | Bias | 0.2663 | 0.2661 | -0.0002 |
| 5 | 20 | Bias | 0.2648 | 0.2655 | 0.0007 |
| 6 | 20 | Unbiased | 0.2572 | 0.2574 | 0.0002 |
| 7 | 20 | Unbiased | 0.2653 | 0.2656 | 0.0003 |
| 8 | 20 | Unbiased | 0.266 | 0.2655 | -0.0005 |
| 9 | 20 | Unbiased | 0.2671 | 0.2653 | -0.0018 |
| 10 | 20 | Unbiased | 0.2637 | 0.2654 | 0.0017 |
| 11 | 30 | Bias | 0.2581 | 0.2644 | 0.0063 |
| 12 | 30 | Bias | 0.2651 | 0.2583 | -0.0068 |
| 13 | 30 | Bias | 0.2659 | 0.2643 | -0.0016 |
| 14 | 30 | Bias | 0.2659 | 0.2658 | -0.0001 |
| 15 | 30 | Bias | 0.266 | 0.2655 | -0.0005 |
| 16 | 30 | Unbiased | 0.2652 | 0.2664 | 0.0012 |
| 17 | 30 | Unbiased | 0.2638 | 0.2656 | 0.0018 |
| 18 | 30 | Unbiased | 0.2662 | 0.2654 | -0.0008 |
| 19 | 30 | Unbiased | 0.2572 | 0.2663 | 0.0091 |
| 20 | 30 | Unbiased | 0.2641 | 0.2579 | -0.0062 |
| 21 | 50 | Bias | 0.2575 | 0.2645 | 0.007 |
| 22 | 50 | Bias | 0.2564 | 0.2583 | 0.0019 |
| 23 | 50 | Bias | 0.267 | 0.2574 | -0.0096 |
| 24 | 50 | Bias | 0.2623 | 0.2664 | 0.0041 |
| 25 | 50 | Bias | 0.2746 | 0.2714 | -0.0032 |
| 26 | 50 | Unbiased | 0.2685 | 0.2675 | -0.001 |
| 27 | 50 | Unbiased | 0.2638 | 0.2633 | -0.0005 |
| 28 | 50 | Unbiased | 0.2646 | 0.2644 | -0.0002 |
| 29 | 50 | Unbiased | 0.2685 | 0.2671 | -0.0014 |
| 30 | 50 | Unbiased | 0.2659 | 0.2667 | 0.0008 |
| 31 | 0 | Correlation | 0.2663 | 0.2659 | -0.0004 |
| 32 | 0 | Correlation | 0.2548 | 0.257 | 0.0022 |
| 33 | 0 | Correlation | 0.272 | 0.2756 | 0.0036 |
| 34 | 0 | Correlation | 0.2634 | 0.2655 | 0.0021 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2548 | 0.26412 | 0.272 | 0.00717 | 0.257 | 0.266 | 0.2756 | 0.0076031 | -0.0004 | 0.001875 | 0.0036 | 0.0016641 |
| 20 | 0.2572 | 0.26529 | 0.2708 | 0.0035215 | 0.2574 | 0.26543 | 0.269 | 0.003127 | -0.0022 | 0.00014 | 0.002 | 0.0013794 |
| 30 | 0.2572 | 0.26375 | 0.2662 | 0.0033197 | 0.2579 | 0.26399 | 0.2664 | 0.00318 | -0.0068 | 0.00024 | 0.0091 | 0.0048847 |
| 50 | 0.2564 | 0.26491 | 0.2746 | 0.0053799 | 0.2574 | 0.2647 | 0.2714 | 0.004239 | -0.0096 | -0.00021 | 0.007 | 0.004413 |
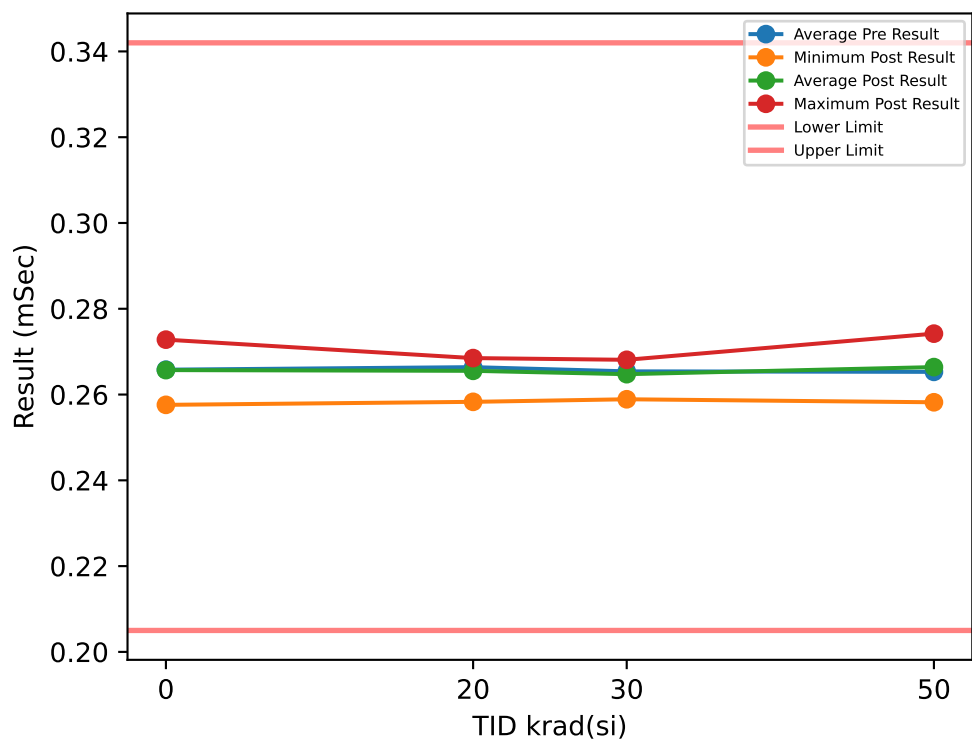
# Device Test: 17.152 DLY_TMR_10KOHM(_DELAY|STEP_DOWN/SEQ_DONE/7/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2703 | 0.2685 | -0.0018 |
| 2 | 20 | Bias | 0.271 | 0.2685 | -0.0025 |
| 3 | 20 | Bias | 0.2675 | 0.2647 | -0.0028 |
| 4 | 20 | Bias | 0.2684 | 0.2679 | -0.0005 |
| 5 | 20 | Bias | 0.2648 | 0.2656 | 0.0008 |
| 6 | 20 | Unbiased | 0.2572 | 0.2583 | 0.0011 |
| 7 | 20 | Unbiased | 0.2662 | 0.2647 | -0.0015 |
| 8 | 20 | Unbiased | 0.2682 | 0.2665 | -0.0017 |
| 9 | 20 | Unbiased | 0.2663 | 0.2664 | 0.0001 |
| 10 | 20 | Unbiased | 0.264 | 0.2642 | 0.0002 |
| 11 | 30 | Bias | 0.2599 | 0.2652 | 0.0053 |
| 12 | 30 | Bias | 0.2659 | 0.2593 | -0.0066 |
| 13 | 30 | Bias | 0.267 | 0.2645 | -0.0025 |
| 14 | 30 | Bias | 0.2658 | 0.2654 | -0.0004 |
| 15 | 30 | Bias | 0.2683 | 0.2654 | -0.0029 |
| 16 | 30 | Unbiased | 0.2667 | 0.2676 | 0.0009 |
| 17 | 30 | Unbiased | 0.2674 | 0.2681 | 0.0007 |
| 18 | 30 | Unbiased | 0.2679 | 0.2654 | -0.0025 |
| 19 | 30 | Unbiased | 0.2599 | 0.2677 | 0.0078 |
| 20 | 30 | Unbiased | 0.2653 | 0.2589 | -0.0064 |
| 21 | 50 | Bias | 0.2594 | 0.2663 | 0.0069 |
| 22 | 50 | Bias | 0.257 | 0.2613 | 0.0043 |
| 23 | 50 | Bias | 0.2663 | 0.2582 | -0.0081 |
| 24 | 50 | Bias | 0.2636 | 0.2682 | 0.0046 |
| 25 | 50 | Bias | 0.2729 | 0.2742 | 0.0013 |
| 26 | 50 | Unbiased | 0.2687 | 0.2693 | 0.0006 |
| 27 | 50 | Unbiased | 0.2663 | 0.2651 | -0.0012 |
| 28 | 50 | Unbiased | 0.2643 | 0.2668 | 0.0025 |
| 29 | 50 | Unbiased | 0.2684 | 0.2675 | -0.0009 |
| 30 | 50 | Unbiased | 0.266 | 0.2671 | 0.0011 |
| 31 | 0 | Correlation | 0.2669 | 0.267 | 0.0001 |
| 32 | 0 | Correlation | 0.2572 | 0.2576 | 0.0004 |
| 33 | 0 | Correlation | 0.2739 | 0.2728 | -0.0011 |
| 34 | 0 | Correlation | 0.2652 | 0.2654 | 0.0002 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2572 | 0.2658 | 0.2739 | 0.0068591 | 0.2576 | 0.2657 | 0.2728 | 0.0062663 | -0.0011 | -0.0001 | 0.0004 | 0.00067823 |
| 20 | 0.2572 | 0.26639 | 0.271 | 0.0039134 | 0.2583 | 0.26553 | 0.2685 | 0.0029885 | -0.0028 | -0.00086 | 0.0011 | 0.0013834 |
| 30 | 0.2599 | 0.26541 | 0.2683 | 0.0030519 | 0.2589 | 0.26475 | 0.2681 | 0.0032233 | -0.0066 | -0.00066 | 0.0078 | 0.0046124 |
| 50 | 0.257 | 0.26529 | 0.2729 | 0.0045827 | 0.2582 | 0.2664 | 0.2742 | 0.0043372 | -0.0081 | 0.00111 | 0.0069 | 0.0041138 |
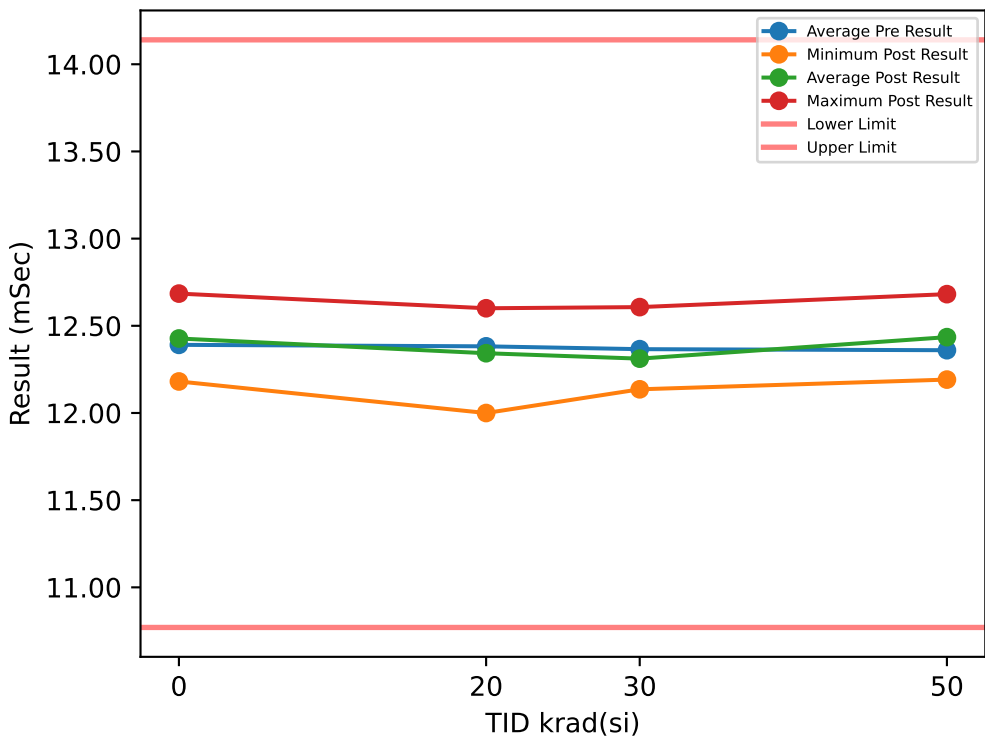
# Device Test: 17.153 DLY_TMR_500KOHM(_DELAY|STEP_UP/EN1/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.369 | 12.217 | -0.1525 |
| 2 | 20 | Bias | 12.449 | 12.533 | 0.0838 |
| 3 | 20 | Bias | 12.015 | 12.09 | 0.0757 |
| 4 | 20 | Bias | 12.686 | 12.567 | -0.1195 |
| 5 | 20 | Bias | 12.523 | 12.539 | 0.0158 |
| 6 | 20 | Unbiased | 12.226 | 12 | -0.2263 |
| 7 | 20 | Unbiased | 12.296 | 12.263 | -0.033 |
| 8 | 20 | Unbiased | 12.408 | 12.351 | -0.0567 |
| 9 | 20 | Unbiased | 12.611 | 12.601 | -0.01 |
| 10 | 20 | Unbiased | 12.239 | 12.266 | 0.0276 |
| 11 | 30 | Bias | 12.278 | 12.278 | -0.0006 |
| 12 | 30 | Bias | 12.387 | 12.178 | -0.2091 |
| 13 | 30 | Bias | 12.469 | 12.241 | -0.2284 |
| 14 | 30 | Bias | 12.105 | 12.484 | 0.3795 |
| 15 | 30 | Bias | 12.436 | 12.136 | -0.2999 |
| 16 | 30 | Unbiased | 12.516 | 12.471 | -0.0449 |
| 17 | 30 | Unbiased | 12.549 | 12.346 | -0.2031 |
| 18 | 30 | Unbiased | 12.355 | 12.607 | 0.2525 |
| 19 | 30 | Unbiased | 12.163 | 12.235 | 0.0713 |
| 20 | 30 | Unbiased | 12.403 | 12.141 | -0.2613 |
| 21 | 50 | Bias | 12.202 | 12.294 | 0.0917 |
| 22 | 50 | Bias | 12.044 | 12.214 | 0.1699 |
| 23 | 50 | Bias | 12.524 | 12.251 | -0.2727 |
| 24 | 50 | Bias | 12.216 | 12.525 | 0.3094 |
| 25 | 50 | Bias | 12.432 | 12.604 | 0.1725 |
| 26 | 50 | Unbiased | 12.602 | 12.659 | 0.0576 |
| 27 | 50 | Unbiased | 12.275 | 12.191 | -0.084 |
| 28 | 50 | Unbiased | 12.389 | 12.388 | -0.0007 |
| 29 | 50 | Unbiased | 12.491 | 12.681 | 0.1908 |
| 30 | 50 | Unbiased | 12.426 | 12.54 | 0.1143 |
| 31 | 0 | Correlation | 12.33 | 12.416 | 0.0861 |
| 32 | 0 | Correlation | 12.197 | 12.181 | -0.0158 |
| 33 | 0 | Correlation | 12.691 | 12.685 | -0.0067 |
| 34 | 0 | Correlation | 12.345 | 12.427 | 0.0823 |

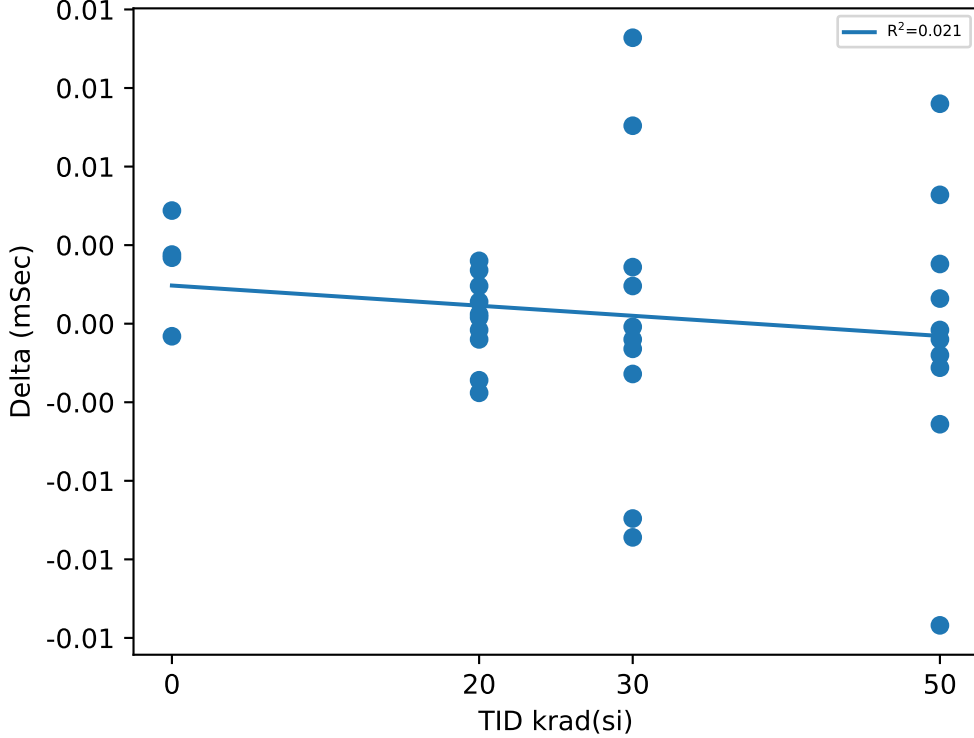## Test Statistics (mSec)
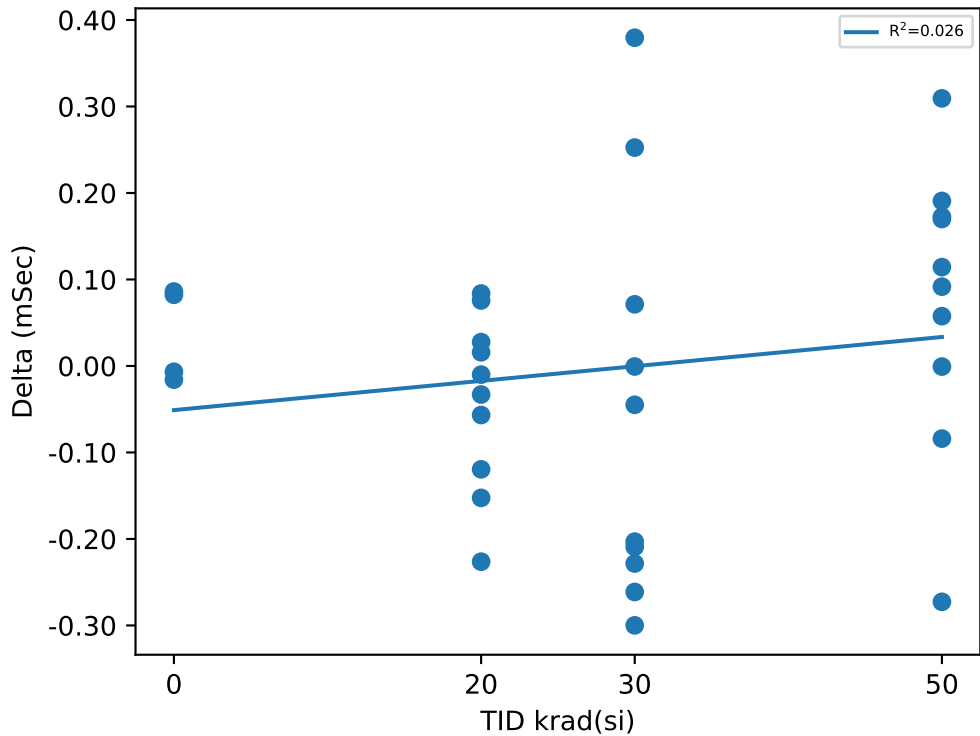
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.197 | 12.391 | 12.691 | 0.21123 | 12.181 | 12.427 | 12.685 | 0.20586 | -0.0158 | 0.036475 | 0.0861 | 0.055255 |
| 20 | 12.015 | 12.382 | 12.686 | 0.1993 | 12 | 12.343 | 12.601 | 0.2111 | -0.2263 | -0.03951 | 0.0838 | 0.10072 |
| 30 | 12.105 | 12.366 | 12.549 | 0.14539 | 12.136 | 12.312 | 12.607 | 0.1611 | -0.2999 | -0.0544 | 0.3795 | 0.23109 |
| 50 | 12.044 | 12.36 | 12.602 | 0.17174 | 12.191 | 12.435 | 12.681 | 0.18959 | -0.2727 | 0.07488 | 0.3094 | 0.1636 |
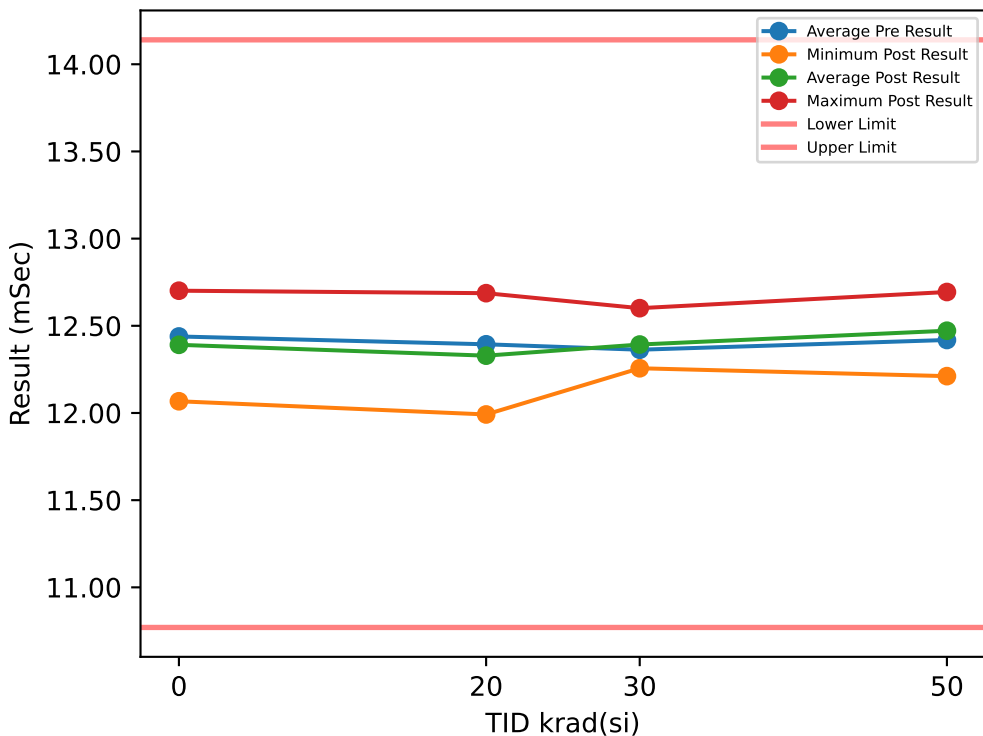
# Device Test: 17.154 DLY_TMR_500KOHM(_DELAY|STEP_UP/EN2/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.345 | 12.215 | -0.1303 |
| 2 | 20 | Bias | 12.597 | 12.559 | -0.0387 |
| 3 | 20 | Bias | 12.144 | 12.067 | -0.0771 |
| 4 | 20 | Bias | 12.672 | 12.687 | 0.0146 |
| 5 | 20 | Bias | 12.527 | 12.408 | -0.1184 |
| 6 | 20 | Unbiased | 12.209 | 11.992 | -0.217 |
| 7 | 20 | Unbiased | 12.43 | 12.284 | -0.1463 |
| 8 | 20 | Unbiased | 12.394 | 12.326 | -0.0682 |
| 9 | 20 | Unbiased | 12.546 | 12.627 | 0.081 |
| 10 | 20 | Unbiased | 12.074 | 12.123 | 0.0487 |
| 11 | 30 | Bias | 12.14 | 12.403 | 0.2632 |
| 12 | 30 | Bias | 12.228 | 12.332 | 0.1039 |
| 13 | 30 | Bias | 12.46 | 12.257 | -0.2031 |
| 14 | 30 | Bias | 12.227 | 12.476 | 0.2489 |
| 15 | 30 | Bias | 12.456 | 12.293 | -0.1629 |
| 16 | 30 | Unbiased | 12.495 | 12.433 | -0.0618 |
| 17 | 30 | Unbiased | 12.558 | 12.5 | -0.0587 |
| 18 | 30 | Unbiased | 12.363 | 12.601 | 0.2378 |
| 19 | 30 | Unbiased | 12.292 | 12.363 | 0.0712 |
| 20 | 30 | Unbiased | 12.41 | 12.269 | -0.1409 |
| 21 | 50 | Bias | 12.041 | 12.427 | 0.3861 |
| 22 | 50 | Bias | 12.069 | 12.211 | 0.1424 |
| 23 | 50 | Bias | 12.683 | 12.235 | -0.4484 |
| 24 | 50 | Bias | 12.207 | 12.651 | 0.4441 |
| 25 | 50 | Bias | 12.582 | 12.611 | 0.029 |
| 26 | 50 | Unbiased | 12.596 | 12.637 | 0.0416 |
| 27 | 50 | Unbiased | 12.382 | 12.332 | -0.0506 |
| 28 | 50 | Unbiased | 12.565 | 12.4 | -0.1652 |
| 29 | 50 | Unbiased | 12.631 | 12.694 | 0.0631 |
| 30 | 50 | Unbiased | 12.43 | 12.52 | 0.0895 |
| 31 | 0 | Correlation | 12.409 | 12.385 | -0.0236 |
| 32 | 0 | Correlation | 12.172 | 12.067 | -0.1044 |
| 33 | 0 | Correlation | 12.687 | 12.701 | 0.014 |
| 34 | 0 | Correlation | 12.488 | 12.41 | -0.0774 |

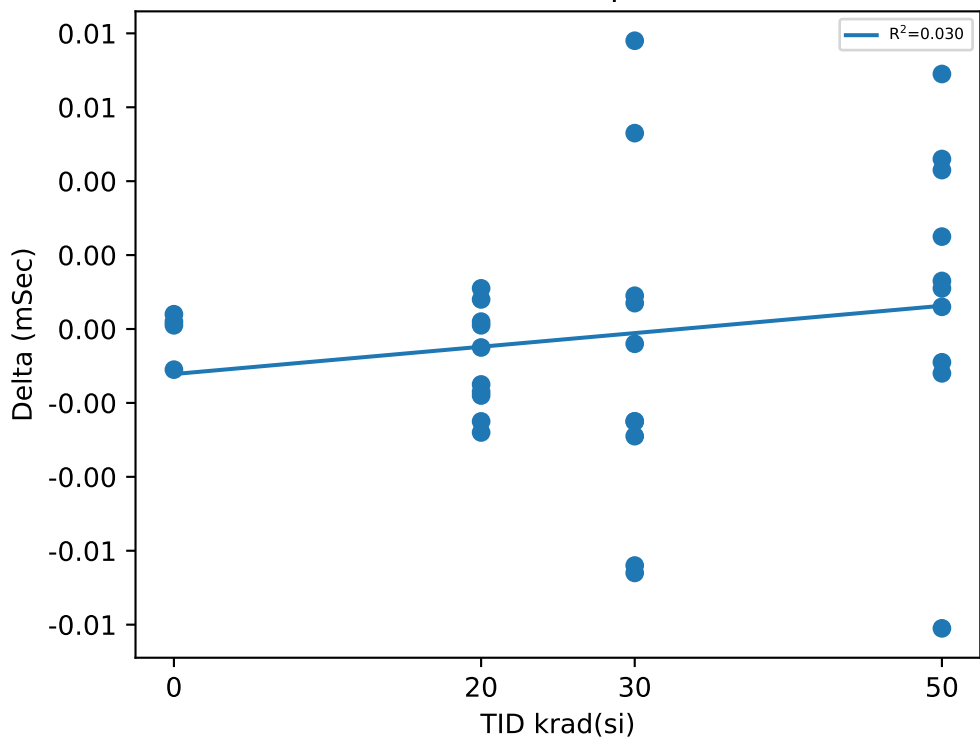## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.172 | 12.439 | 12.687 | 0.21324 | 12.067 | 12.391 | 12.701 | 0.25918 | -0.1044 | -0.04785 | 0.014 | 0.053181 |
| 20 | 12.074 | 12.394 | 12.672 | 0.20067 | 11.992 | 12.329 | 12.687 | 0.23947 | -0.217 | -0.06517 | 0.081 | 0.093248 |
| 30 | 12.14 | 12.363 | 12.558 | 0.13622 | 12.257 | 12.393 | 12.601 | 0.11158 | -0.2031 | 0.02976 | 0.2632 | 0.17941 |
| 50 | 12.041 | 12.419 | 12.683 | 0.23701 | 12.211 | 12.472 | 12.694 | 0.17677 | -0.4484 | 0.05316 | 0.4441 | 0.25469 |

# Device Test: 17.155 DLY_TMR_500KOHM(_DELAY|STEP_UP/EN3/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.355 | 12.328 | -0.0272 |
| 2 | 20 | Bias | 12.607 | 12.567 | -0.0408 |
| 3 | 20 | Bias | 12.147 | 12.07 | -0.0771 |
| 4 | 20 | Bias | 12.498 | 12.677 | 0.1794 |
| 5 | 20 | Bias | 12.513 | 12.402 | -0.1107 |
| 6 | 20 | Unbiased | 12.205 | 12.002 | -0.2027 |
| 7 | 20 | Unbiased | 12.432 | 12.406 | -0.0256 |
| 8 | 20 | Unbiased | 12.373 | 12.338 | -0.0343 |
| 9 | 20 | Unbiased | 12.448 | 12.615 | 0.1668 |
| 10 | 20 | Unbiased | 12.201 | 12.126 | -0.075 |
| 11 | 30 | Bias | 12.128 | 12.404 | 0.2761 |
| 12 | 30 | Bias | 12.359 | 12.319 | -0.0406 |
| 13 | 30 | Bias | 12.336 | 12.394 | 0.0579 |
| 14 | 30 | Bias | 12.121 | 12.469 | 0.3474 |
| 15 | 30 | Bias | 12.44 | 12.288 | -0.1511 |
| 16 | 30 | Unbiased | 12.49 | 12.447 | -0.043 |
| 17 | 30 | Unbiased | 12.562 | 12.485 | -0.0768 |
| 18 | 30 | Unbiased | 12.366 | 12.598 | 0.2316 |
| 19 | 30 | Unbiased | 12.175 | 12.385 | 0.2105 |
| 20 | 30 | Unbiased | 12.403 | 12.147 | -0.2553 |
| 21 | 50 | Bias | 12.048 | 12.298 | 0.2497 |
| 22 | 50 | Bias | 12.175 | 12.223 | 0.0472 |
| 23 | 50 | Bias | 12.69 | 12.223 | -0.4668 |
| 24 | 50 | Bias | 12.21 | 12.489 | 0.2784 |
| 25 | 50 | Bias | 12.577 | 12.615 | 0.0378 |
| 26 | 50 | Unbiased | 12.604 | 12.515 | -0.0885 |
| 27 | 50 | Unbiased | 12.405 | 12.223 | -0.1823 |
| 28 | 50 | Unbiased | 12.569 | 12.518 | -0.0512 |
| 29 | 50 | Unbiased | 12.561 | 12.682 | 0.1206 |
| 30 | 50 | Unbiased | 12.418 | 12.399 | -0.018 |
| 31 | 0 | Correlation | 12.385 | 12.259 | -0.1257 |
| 32 | 0 | Correlation | 12.168 | 12.062 | -0.1056 |
| 33 | 0 | Correlation | 12.679 | 12.685 | 0.0064 |
| 34 | 0 | Correlation | 12.496 | 12.409 | -0.0876 |

## Test Statistics (mSec)
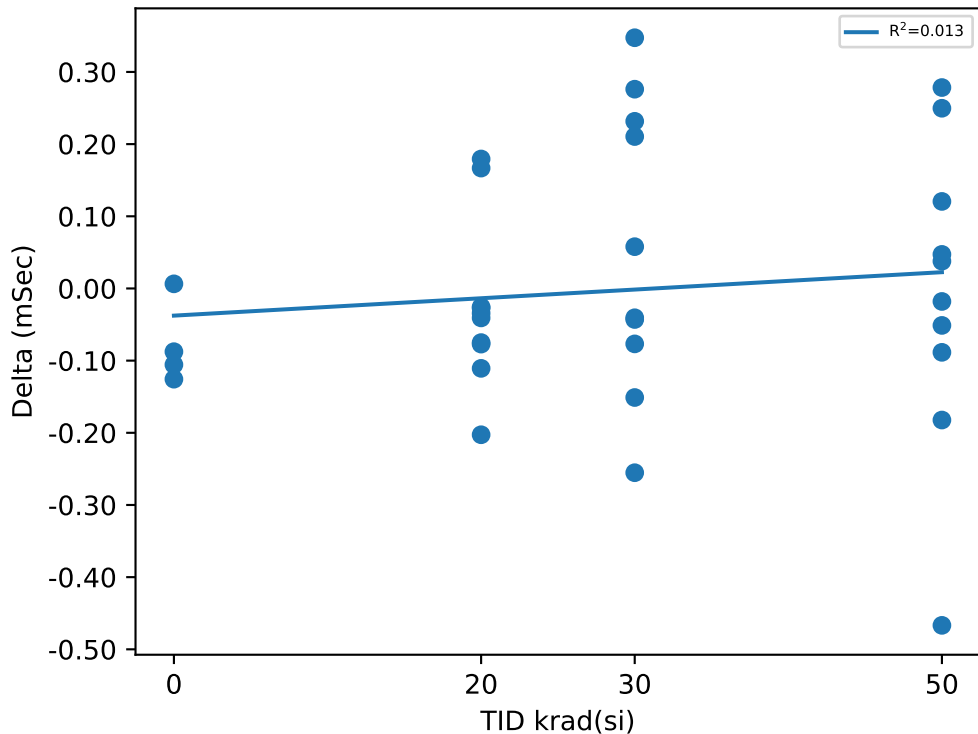
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.168 | 12.432 | 12.679 | 0.21354 | 12.062 | 12.354 | 12.685 | 0.26235 | -0.1257 | -0.078125 | 0.0064 | 0.058459 |
| 20 | 12.147 | 12.378 | 12.607 | 0.15211 | 12.002 | 12.353 | 12.677 | 0.231 | -0.2027 | -0.02472 | 0.1794 | 0.11693 |
| 30 | 12.121 | 12.338 | 12.562 | 0.15169 | 12.147 | 12.394 | 12.598 | 0.12297 | -0.2553 | 0.05567 | 0.3474 | 0.20128 |
| 50 | 12.048 | 12.426 | 12.69 | 0.21486 | 12.223 | 12.418 | 12.682 | 0.1706 | -0.4668 | -0.00731 | 0.2784 | 0.21588 |
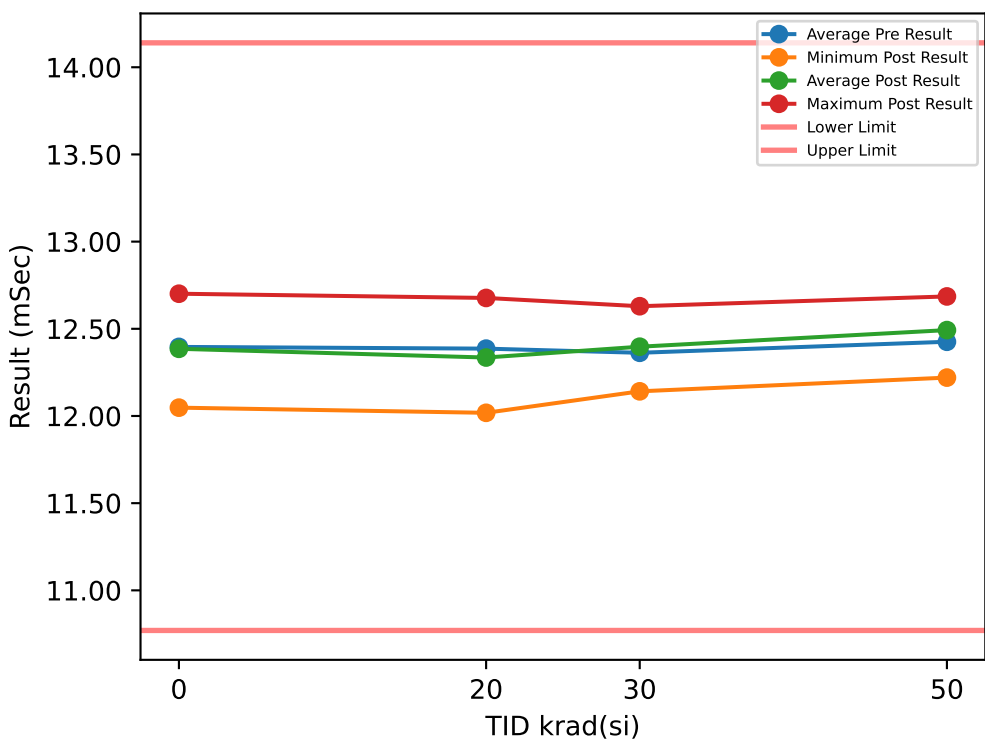
# Device Test: 17.156 DLY_TMR_500KOHM(_DELAY|STEP_UP/EN4/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.348 | 12.185 | -0.1636 |
| 2 | 20 | Bias | 12.605 | 12.564 | -0.0411 |
| 3 | 20 | Bias | 12.037 | 12.054 | 0.0172 |
| 4 | 20 | Bias | 12.496 | 12.677 | 0.1812 |
| 5 | 20 | Bias | 12.529 | 12.528 | -0.0014 |
| 6 | 20 | Unbiased | 12.209 | 12.018 | -0.1905 |
| 7 | 20 | Unbiased | 12.401 | 12.285 | -0.1155 |
| 8 | 20 | Unbiased | 12.394 | 12.326 | -0.0671 |
| 9 | 20 | Unbiased | 12.639 | 12.606 | -0.0322 |
| 10 | 20 | Unbiased | 12.205 | 12.108 | -0.0968 |
| 11 | 30 | Bias | 12.156 | 12.405 | 0.2484 |
| 12 | 30 | Bias | 12.347 | 12.337 | -0.0098 |
| 13 | 30 | Bias | 12.461 | 12.379 | -0.0826 |
| 14 | 30 | Bias | 12.104 | 12.477 | 0.3734 |
| 15 | 30 | Bias | 12.46 | 12.293 | -0.1663 |
| 16 | 30 | Unbiased | 12.498 | 12.46 | -0.0377 |
| 17 | 30 | Unbiased | 12.531 | 12.484 | -0.0464 |
| 18 | 30 | Unbiased | 12.363 | 12.63 | 0.2662 |
| 19 | 30 | Unbiased | 12.294 | 12.367 | 0.0728 |
| 20 | 30 | Unbiased | 12.411 | 12.141 | -0.2692 |
| 21 | 50 | Bias | 12.062 | 12.429 | 0.3668 |
| 22 | 50 | Bias | 12.176 | 12.22 | 0.0444 |
| 23 | 50 | Bias | 12.687 | 12.236 | -0.4517 |
| 24 | 50 | Bias | 12.33 | 12.685 | 0.355 |
| 25 | 50 | Bias | 12.551 | 12.633 | 0.0823 |
| 26 | 50 | Unbiased | 12.6 | 12.67 | 0.0696 |
| 27 | 50 | Unbiased | 12.399 | 12.331 | -0.0674 |
| 28 | 50 | Unbiased | 12.558 | 12.516 | -0.042 |
| 29 | 50 | Unbiased | 12.464 | 12.686 | 0.2217 |
| 30 | 50 | Unbiased | 12.43 | 12.521 | 0.0905 |
| 31 | 0 | Correlation | 12.408 | 12.387 | -0.0206 |
| 32 | 0 | Correlation | 12.174 | 12.048 | -0.1259 |
| 33 | 0 | Correlation | 12.508 | 12.701 | 0.1931 |
| 34 | 0 | Correlation | 12.495 | 12.405 | -0.0903 |

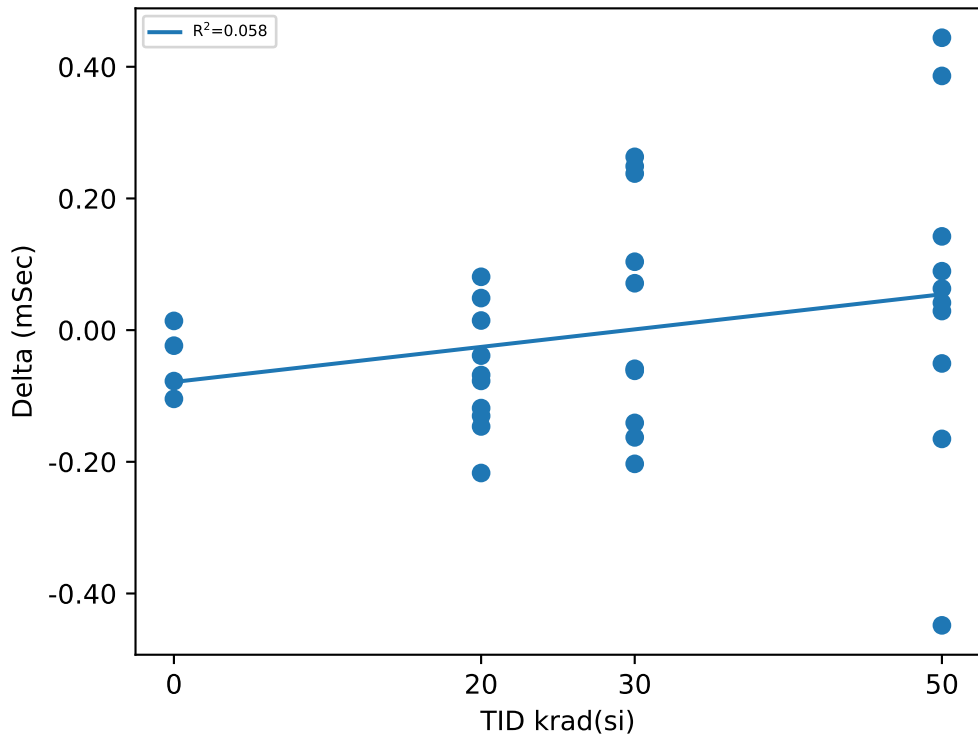## Test Statistics (mSec)
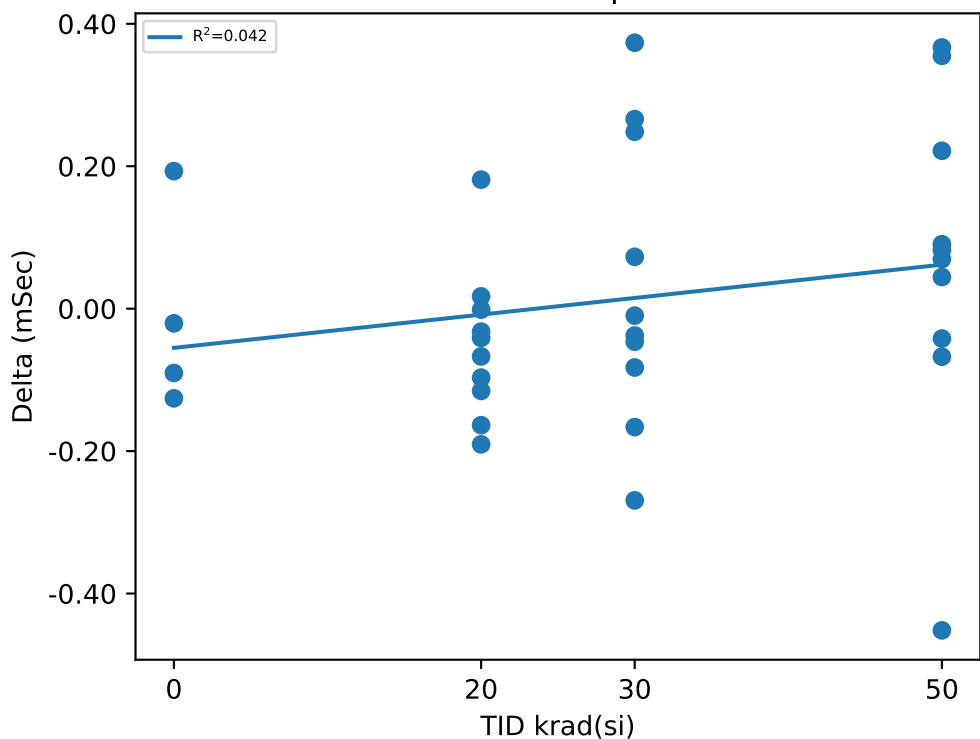
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.174 | 12.396 | 12.508 | 0.15484 | 12.048 | 12.385 | 12.701 | 0.26713 | -0.1259 | -0.010925 | 0.1931 | 0.14287 |
| 20 | 12.037 | 12.386 | 12.639 | 0.19204 | 12.018 | 12.335 | 12.677 | 0.244 | -0.1905 | -0.05098 | 0.1812 | 0.10548 |
| 30 | 12.104 | 12.362 | 12.531 | 0.14233 | 12.141 | 12.397 | 12.63 | 0.13041 | -0.2692 | 0.03488 | 0.3734 | 0.20433 |
| 50 | 12.062 | 12.426 | 12.687 | 0.1939 | 12.22 | 12.493 | 12.686 | 0.1817 | -0.4517 | 0.06692 | 0.3668 | 0.23501 |
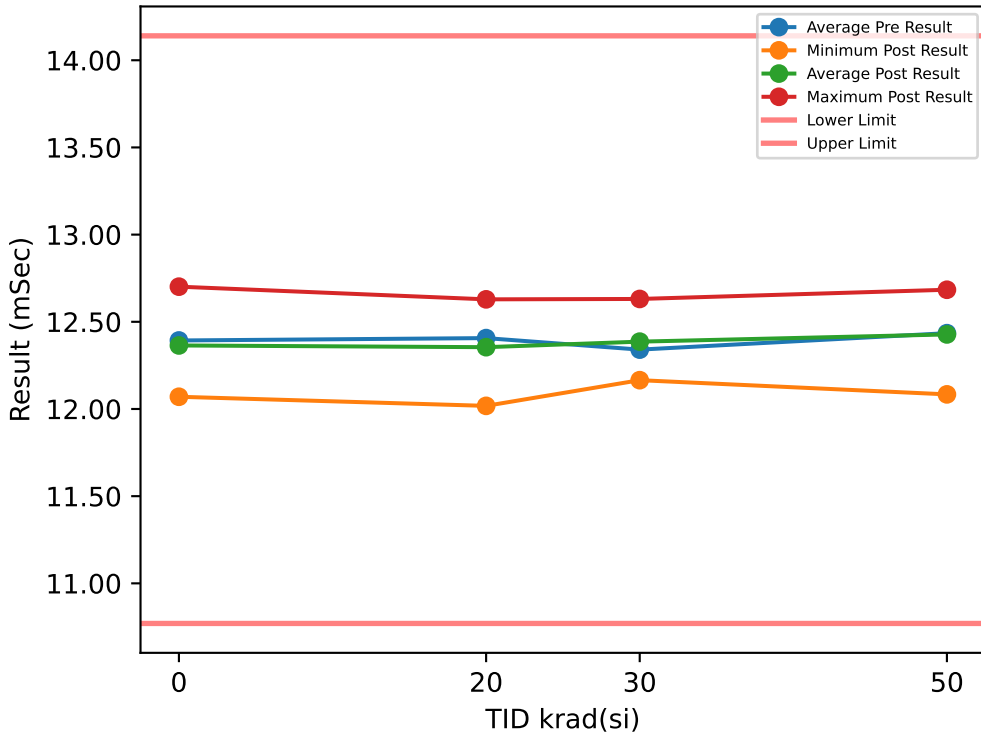
# Device Test: 17.157 DLY_TMR_500KOHM(_DELAY|STEP_UP/SEQ_DONE/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

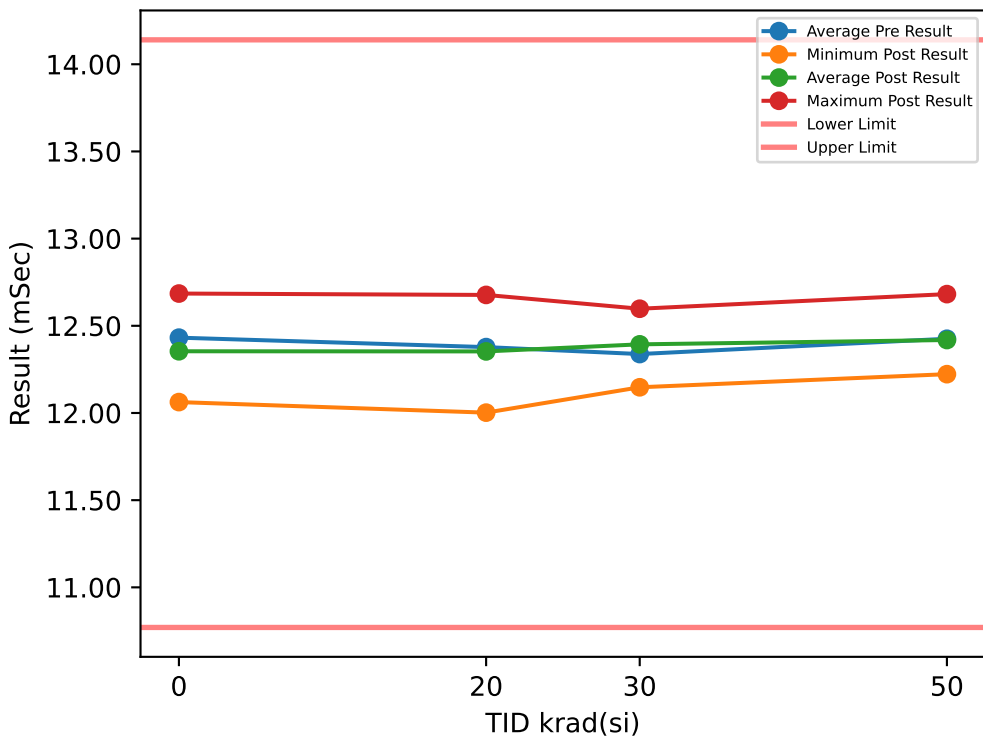| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 12.355 | 12.325 | -0.0303 |
| 2 | 20 | Bias | 12.598 | 12.536 | -0.0611 |
| 3 | 20 | Bias | 12.046 | 12.236 | 0.1899 |
| 4 | 20 | Bias | 12.676 | 12.568 | -0.1076 |
| 5 | 20 | Bias | 12.531 | 12.399 | -0.1318 |
| 6 | 20 | Unbiased | 12.21 | 12.018 | -0.1926 |
| 7 | 20 | Unbiased | 12.432 | 12.406 | -0.0253 |
| 8 | 20 | Unbiased | 12.395 | 12.337 | -0.058 |
| 9 | 20 | Unbiased | 12.616 | 12.629 | 0.013 |
| 10 | 20 | Unbiased | 12.207 | 12.09 | -0.1165 |
| 11 | 30 | Bias | 12.158 | 12.395 | 0.2375 |
| 12 | 30 | Bias | 12.355 | 12.197 | -0.1575 |
| 13 | 30 | Bias | 12.457 | 12.391 | -0.0662 |
| 14 | 30 | Bias | 12.227 | 12.47 | 0.2428 |
| 15 | 30 | Bias | 12.449 | 12.165 | -0.2836 |
| 16 | 30 | Unbiased | 12.497 | 12.458 | -0.0391 |
| 17 | 30 | Unbiased | 12.53 | 12.5 | -0.0297 |
| 18 | 30 | Unbiased | 12.252 | 12.631 | 0.3795 |
| 19 | 30 | Unbiased | 12.19 | 12.385 | 0.1948 |
| 20 | 30 | Unbiased | 12.291 | 12.27 | -0.0212 |
| 21 | 50 | Bias | 12.065 | 12.294 | 0.2292 |
| 22 | 50 | Bias | 12.059 | 12.084 | 0.0246 |
| 23 | 50 | Bias | 12.688 | 12.108 | -0.5803 |
| 24 | 50 | Bias | 12.321 | 12.667 | 0.3465 |
| 25 | 50 | Bias | 12.582 | 12.632 | 0.0494 |
| 26 | 50 | Unbiased | 12.586 | 12.671 | 0.0849 |
| 27 | 50 | Unbiased | 12.405 | 12.211 | -0.1937 |
| 28 | 50 | Unbiased | 12.566 | 12.405 | -0.1614 |
| 29 | 50 | Unbiased | 12.645 | 12.684 | 0.0393 |
| 30 | 50 | Unbiased | 12.432 | 12.521 | 0.0894 |
| 31 | 0 | Correlation | 12.409 | 12.274 | -0.1342 |
| 32 | 0 | Correlation | 12.175 | 12.07 | -0.1051 |
| 33 | 0 | Correlation | 12.51 | 12.701 | 0.1916 |
| 34 | 0 | Correlation | 12.478 | 12.411 | -0.0666 |

## TID vs Post - Pre Exposure Delta



## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 12.175 | 12.393 | 12.51 | 0.15119 | 12.07 | 12.364 | 12.701 | 0.26493 | -0.1342 | -0.028575 | 0.1916 | 0.14937 |
| 20 | 12.046 | 12.406 | 12.676 | 0.20558 | 12.018 | 12.354 | 12.629 | 0.19923 | -0.1926 | -0.05203 | 0.1899 | 0.10405 |
| 30 | 12.158 | 12.34 | 12.53 | 0.13538 | 12.165 | 12.386 | 12.631 | 0.14262 | -0.2836 | 0.04573 | 0.3795 | 0.20787 |
| 50 | 12.059 | 12.435 | 12.688 | 0.22653 | 12.084 | 12.428 | 12.684 | 0.2401 | -0.5803 | -0.00721 | 0.3465 | 0.25651 |
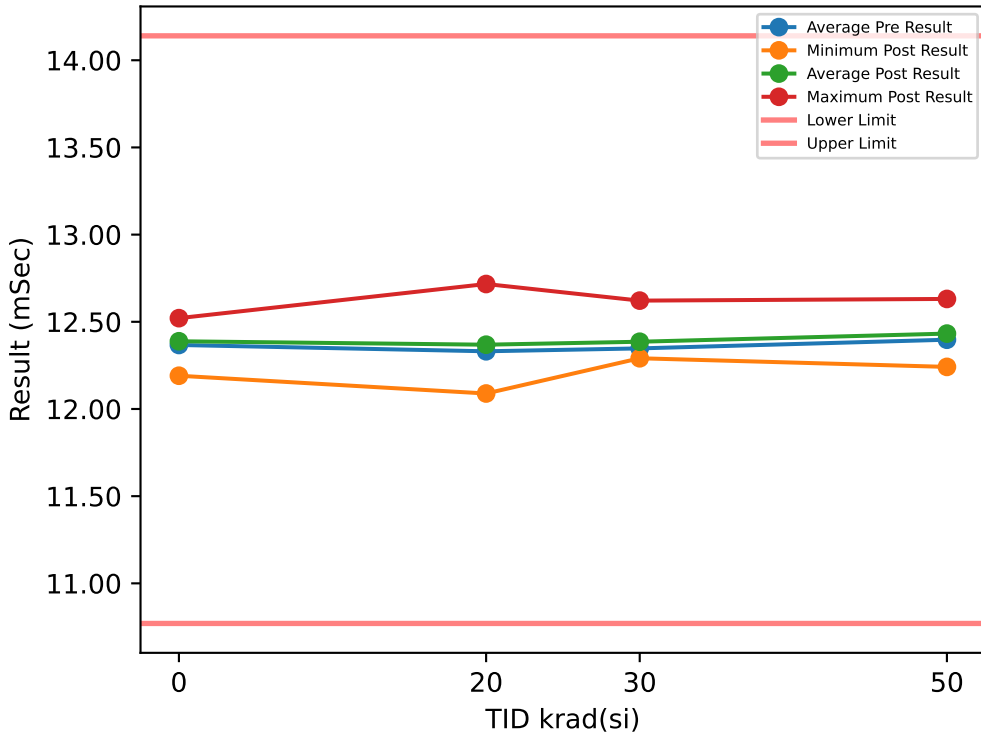
# Device Test: 17.158 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN1/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.378 | 12.335 | -0.0432 |
| 2 | 20 | Bias | 12.414 | 12.394 | -0.0199 |
| 3 | 20 | Bias | 12.16 | 12.089 | -0.0716 |
| 4 | 20 | Bias | 12.521 | 12.717 | 0.1959 |
| 5 | 20 | Bias | 12.353 | 12.555 | 0.2022 |
| 6 | 20 | Unbiased | 12.231 | 12.142 | -0.0893 |
| 7 | 20 | Unbiased | 12.352 | 12.404 | 0.052 |
| 8 | 20 | Unbiased | 12.226 | 12.352 | 0.1259 |
| 9 | 20 | Unbiased | 12.472 | 12.456 | -0.0165 |
| 10 | 20 | Unbiased | 12.202 | 12.244 | 0.0422 |
| 11 | 30 | Bias | 12.267 | 12.414 | 0.1473 |
| 12 | 30 | Bias | 12.37 | 12.361 | -0.0083 |
| 13 | 30 | Bias | 12.291 | 12.389 | 0.0974 |
| 14 | 30 | Bias | 12.254 | 12.303 | 0.0495 |
| 15 | 30 | Bias | 12.289 | 12.297 | 0.0078 |
| 16 | 30 | Unbiased | 12.499 | 12.291 | -0.2084 |
| 17 | 30 | Unbiased | 12.388 | 12.506 | 0.1175 |
| 18 | 30 | Unbiased | 12.367 | 12.621 | 0.2547 |
| 19 | 30 | Unbiased | 12.319 | 12.381 | 0.0629 |
| 20 | 30 | Unbiased | 12.431 | 12.293 | -0.1382 |
| 21 | 50 | Bias | 12.186 | 12.257 | 0.0713 |
| 22 | 50 | Bias | 12.178 | 12.247 | 0.0689 |
| 23 | 50 | Bias | 12.501 | 12.241 | -0.2599 |
| 24 | 50 | Bias | 12.356 | 12.494 | 0.138 |
| 25 | 50 | Bias | 12.41 | 12.631 | 0.2207 |
| 26 | 50 | Unbiased | 12.599 | 12.497 | -0.1024 |
| 27 | 50 | Unbiased | 12.424 | 12.357 | -0.0674 |
| 28 | 50 | Unbiased | 12.395 | 12.538 | 0.1438 |
| 29 | 50 | Unbiased | 12.485 | 12.518 | 0.0338 |
| 30 | 50 | Unbiased | 12.439 | 12.543 | 0.1042 |
| 31 | 0 | Correlation | 12.415 | 12.413 | -0.0027 |
| 32 | 0 | Correlation | 12.197 | 12.191 | -0.0061 |
| 33 | 0 | Correlation | 12.532 | 12.521 | -0.0107 |
| 34 | 0 | Correlation | 12.325 | 12.429 | 0.1045 |

## Test Statistics (mSec)
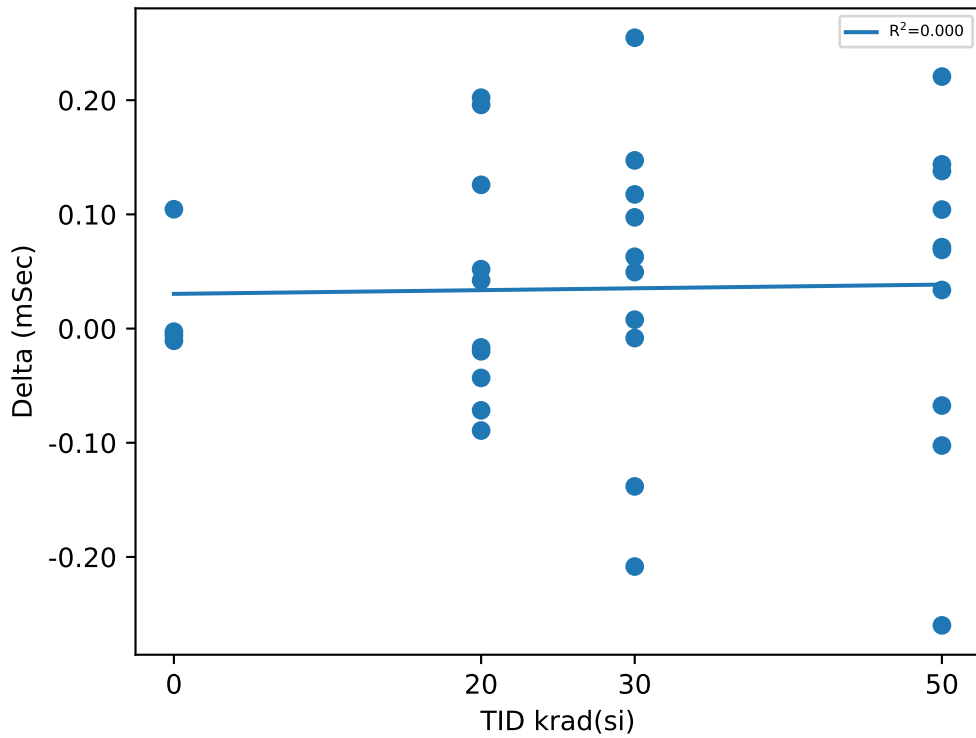
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.197 | 12.367 | 12.532 | 0.14168 | 12.191 | 12.388 | 12.521 | 0.1401 | -0.0107 | 0.02125 | 0.1045 | 0.055597 |
| 20 | 12.16 | 12.331 | 12.521 | 0.12142 | 12.089 | 12.369 | 12.717 | 0.18622 | -0.0893 | 0.03777 | 0.2022 | 0.10592 |
| 30 | 12.254 | 12.347 | 12.499 | 0.078318 | 12.291 | 12.386 | 12.621 | 0.10735 | -0.2084 | 0.03822 | 0.2547 | 0.13512 |
| 50 | 12.178 | 12.397 | 12.599 | 0.13182 | 12.241 | 12.432 | 12.631 | 0.14364 | -0.2599 | 0.0351 | 0.2207 | 0.14162 |
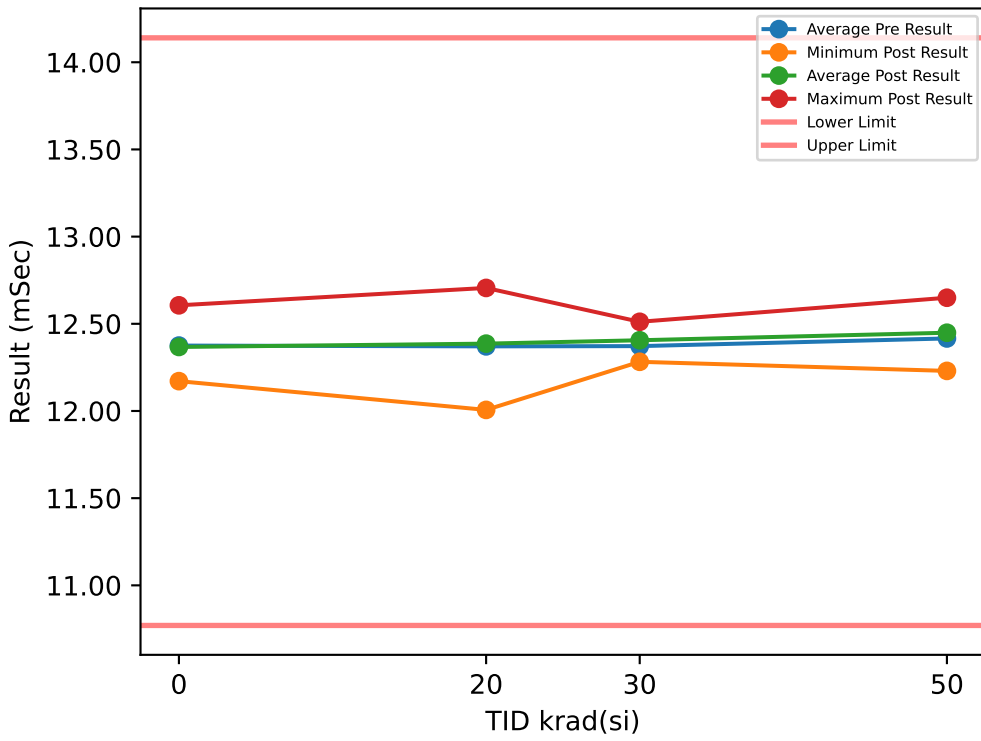
# Device Test: 17.159 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN2/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.366 | 12.338 | -0.0278 |
| 2 | 20 | Bias | 12.42 | 12.577 | 0.1566 |
| 3 | 20 | Bias | 12.157 | 12.08 | -0.0773 |
| 4 | 20 | Bias | 12.509 | 12.706 | 0.1965 |
| 5 | 20 | Bias | 12.345 | 12.54 | 0.1942 |
| 6 | 20 | Unbiased | 12.223 | 12.006 | -0.2169 |
| 7 | 20 | Unbiased | 12.443 | 12.418 | -0.0249 |
| 8 | 20 | Unbiased | 12.394 | 12.347 | -0.0469 |
| 9 | 20 | Unbiased | 12.631 | 12.621 | -0.0105 |
| 10 | 20 | Unbiased | 12.217 | 12.23 | 0.0127 |
| 11 | 30 | Bias | 12.265 | 12.416 | 0.151 |
| 12 | 30 | Bias | 12.369 | 12.346 | -0.023 |
| 13 | 30 | Bias | 12.467 | 12.404 | -0.0625 |
| 14 | 30 | Bias | 12.125 | 12.489 | 0.364 |
| 15 | 30 | Bias | 12.444 | 12.307 | -0.1368 |
| 16 | 30 | Unbiased | 12.504 | 12.467 | -0.0375 |
| 17 | 30 | Unbiased | 12.566 | 12.511 | -0.0549 |
| 18 | 30 | Unbiased | 12.376 | 12.437 | 0.0612 |
| 19 | 30 | Unbiased | 12.305 | 12.396 | 0.0908 |
| 20 | 30 | Unbiased | 12.298 | 12.282 | -0.0162 |
| 21 | 50 | Bias | 12.057 | 12.439 | 0.3815 |
| 22 | 50 | Bias | 12.188 | 12.233 | 0.0453 |
| 23 | 50 | Bias | 12.68 | 12.248 | -0.4322 |
| 24 | 50 | Bias | 12.336 | 12.498 | 0.1621 |
| 25 | 50 | Bias | 12.575 | 12.64 | 0.065 |
| 26 | 50 | Unbiased | 12.417 | 12.649 | 0.2322 |
| 27 | 50 | Unbiased | 12.416 | 12.23 | -0.1858 |
| 28 | 50 | Unbiased | 12.573 | 12.512 | -0.0616 |
| 29 | 50 | Unbiased | 12.475 | 12.507 | 0.0318 |
| 30 | 50 | Unbiased | 12.442 | 12.532 | 0.0899 |
| 31 | 0 | Correlation | 12.421 | 12.27 | -0.1517 |
| 32 | 0 | Correlation | 12.056 | 12.171 | 0.1149 |
| 33 | 0 | Correlation | 12.521 | 12.606 | 0.0845 |
| 34 | 0 | Correlation | 12.502 | 12.422 | -0.0797 |

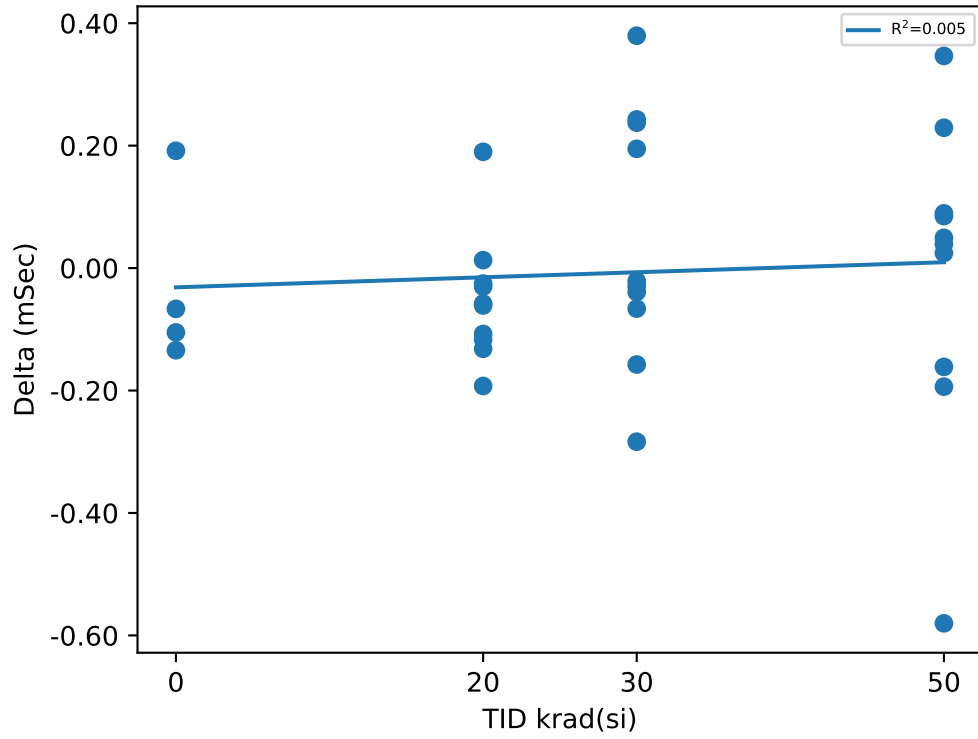## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.056 | 12.375 | 12.521 | 0.21703 | 12.171 | 12.367 | 12.606 | 0.18977 | -0.1517 | -0.008 | 0.1149 | 0.12839 |
| 20 | 12.157 | 12.371 | 12.631 | 0.14402 | 12.006 | 12.386 | 12.706 | 0.23198 | -0.2169 | 0.01557 | 0.1965 | 0.13136 |
| 30 | 12.125 | 12.372 | 12.566 | 0.12974 | 12.282 | 12.406 | 12.511 | 0.075847 | -0.1368 | 0.03361 | 0.364 | 0.14292 |
| 50 | 12.057 | 12.416 | 12.68 | 0.18582 | 12.23 | 12.449 | 12.649 | 0.15922 | -0.4322 | 0.03282 | 0.3815 | 0.22496 |

# Device Test: 17.16  TPD_EN(_DELAY|STEP_UP/EN4/1.6/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.154 | 3.2373 | 0.0833 |
| 2 | 20 | Bias | 3.4589 | 3.296 | -0.1629 |
| 3 | 20 | Bias | 3.2427 | 3.2903 | 0.0476 |
| 4 | 20 | Bias | 3.5149 | 3.3463 | -0.1686 |
| 5 | 20 | Bias | 3.4005 | 3.381 | -0.0195 |
| 6 | 20 | Unbiased | 3.2287 | 3.0298 | -0.1989 |
| 7 | 20 | Unbiased | 3.2672 | 3.3177 | 0.0505 |
| 8 | 20 | Unbiased | 3.0479 | 3.4727 | 0.4248 |
| 9 | 20 | Unbiased | 3.3134 | 3.2613 | -0.0521 |
| 10 | 20 | Unbiased | 3.5017 | 3.3023 | -0.1994 |
| 11 | 30 | Bias | 3.3036 | 3.2871 | -0.0165 |
| 12 | 30 | Bias | 3.2871 | 3.3667 | 0.0796 |
| 13 | 30 | Bias | 3.1481 | 3.2877 | 0.1396 |
| 14 | 30 | Bias | 3.0163 | 3.3459 | 0.3296 |
| 15 | 30 | Bias | 3.1141 | 3.2753 | 0.1612 |
| 16 | 30 | Unbiased | 3.2592 | 3.3174 | 0.0582 |
| 17 | 30 | Unbiased | 3.23 | 3.5238 | 0.2938 |
| 18 | 30 | Unbiased | 3.3875 | 3.2535 | -0.134 |
| 19 | 30 | Unbiased | 3.1619 | 3.345 | 0.1831 |
| 20 | 30 | Unbiased | 3.2608 | 3.1919 | -0.0689 |
| 21 | 50 | Bias | 3.1327 | 3.2633 | 0.1306 |
| 22 | 50 | Bias | 3.4385 | 3.3009 | -0.1376 |
| 23 | 50 | Bias | 3.4074 | 3.3195 | -0.0879 |
| 24 | 50 | Bias | 3.3011 | 2.9852 | -0.3159 |
| 25 | 50 | Bias | 2.9986 | 3.2943 | 0.2957 |
| 26 | 50 | Unbiased | 3.1832 | 3.3545 | 0.1713 |
| 27 | 50 | Unbiased | 3.106 | 3.3182 | 0.2122 |
| 28 | 50 | Unbiased | 3.3744 | 3.322 | -0.0524 |
| 29 | 50 | Unbiased | 3.0819 | 3.31 | 0.2281 |
| 30 | 50 | Unbiased | 3.2039 | 3.0802 | -0.1237 |
| 31 | 0 | Correlation | 3.3385 | 3.1347 | -0.2038 |
| 32 | 0 | Correlation | 3.3027 | 3.2916 | -0.0111 |
| 33 | 0 | Correlation | 3.2025 | 3.1616 | -0.0409 |
| 34 | 0 | Correlation | 3.4014 | 3.2167 | -0.1847 |

## Test Statistics (uSec)
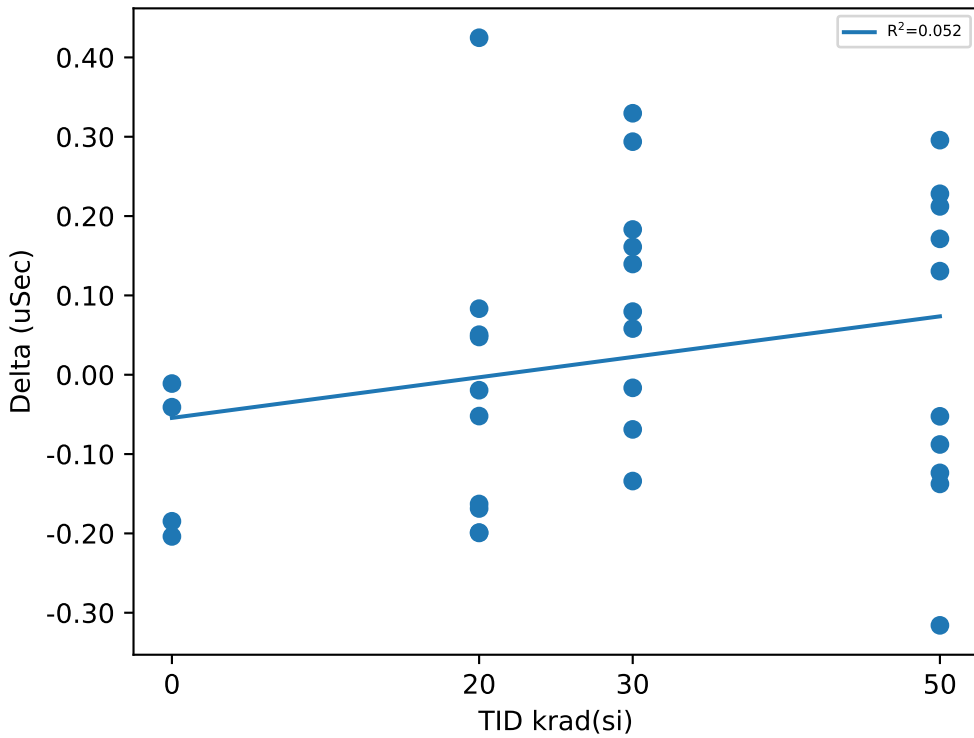
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.2025 | 3.3113 | 3.4014 | 0.083205 | 3.1347 | 3.2012 | 3.2916 | 0.069289 | -0.2038 | -0.11013 | -0.0111 | 0.098208 |
| 20 | 3.0479 | 3.313 | 3.5149 | 0.15457 | 3.0298 | 3.2935 | 3.4727 | 0.114 | -0.1994 | -0.01952 | 0.4248 | 0.19026 |
| 30 | 3.0163 | 3.2169 | 3.3875 | 0.1075 | 3.1919 | 3.3194 | 3.5238 | 0.088173 | -0.134 | 0.10257 | 0.3296 | 0.14961 |
| 50 | 2.9986 | 3.2228 | 3.4385 | 0.15038 | 2.9852 | 3.2548 | 3.3545 | 0.1214 | -0.3159 | 0.03204 | 0.2957 | 0.20142 |
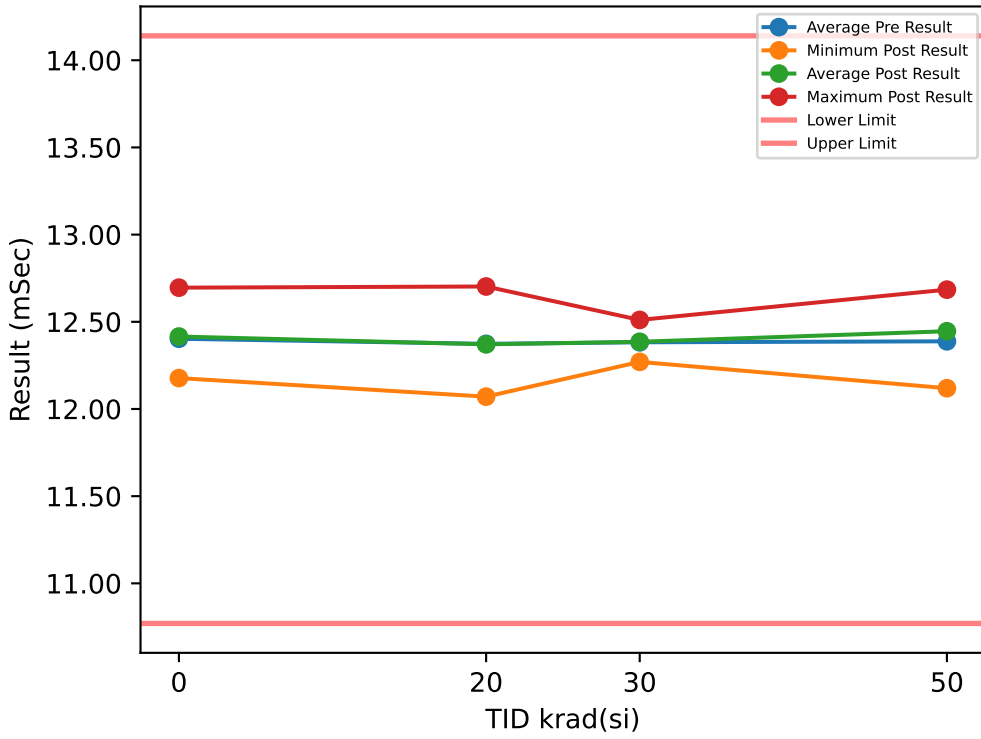
# Device Test: 17.160 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN3/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.345 | 12.32 | -0.0251 |
| 2 | 20 | Bias | 12.415 | 12.568 | 0.1524 |
| 3 | 20 | Bias | 12.156 | 12.071 | -0.0855 |
| 4 | 20 | Bias | 12.501 | 12.703 | 0.2012 |
| 5 | 20 | Bias | 12.523 | 12.531 | 0.0084 |
| 6 | 20 | Unbiased | 12.222 | 12.18 | -0.0417 |
| 7 | 20 | Unbiased | 12.437 | 12.411 | -0.0258 |
| 8 | 20 | Unbiased | 12.406 | 12.215 | -0.1905 |
| 9 | 20 | Unbiased | 12.639 | 12.605 | -0.0344 |
| 10 | 20 | Unbiased | 12.091 | 12.104 | 0.0129 |
| 11 | 30 | Bias | 12.132 | 12.27 | 0.1377 |
| 12 | 30 | Bias | 12.349 | 12.345 | -0.0039 |
| 13 | 30 | Bias | 12.473 | 12.398 | -0.0753 |
| 14 | 30 | Bias | 12.241 | 12.454 | 0.2132 |
| 15 | 30 | Bias | 12.47 | 12.287 | -0.1828 |
| 16 | 30 | Unbiased | 12.485 | 12.473 | -0.0123 |
| 17 | 30 | Unbiased | 12.572 | 12.511 | -0.0611 |
| 18 | 30 | Unbiased | 12.375 | 12.443 | 0.0679 |
| 19 | 30 | Unbiased | 12.304 | 12.392 | 0.0875 |
| 20 | 30 | Unbiased | 12.422 | 12.281 | -0.1413 |
| 21 | 50 | Bias | 12.172 | 12.441 | 0.2692 |
| 22 | 50 | Bias | 12.189 | 12.227 | 0.0376 |
| 23 | 50 | Bias | 12.5 | 12.119 | -0.381 |
| 24 | 50 | Bias | 12.341 | 12.684 | 0.3433 |
| 25 | 50 | Bias | 12.397 | 12.637 | 0.2401 |
| 26 | 50 | Unbiased | 12.6 | 12.584 | -0.0159 |
| 27 | 50 | Unbiased | 12.389 | 12.217 | -0.1724 |
| 28 | 50 | Unbiased | 12.38 | 12.514 | 0.1345 |
| 29 | 50 | Unbiased | 12.475 | 12.505 | 0.0307 |
| 30 | 50 | Unbiased | 12.438 | 12.53 | 0.0927 |
| 31 | 0 | Correlation | 12.402 | 12.399 | -0.0031 |
| 32 | 0 | Correlation | 12.185 | 12.177 | -0.0077 |
| 33 | 0 | Correlation | 12.517 | 12.696 | 0.1787 |
| 34 | 0 | Correlation | 12.507 | 12.391 | -0.1167 |

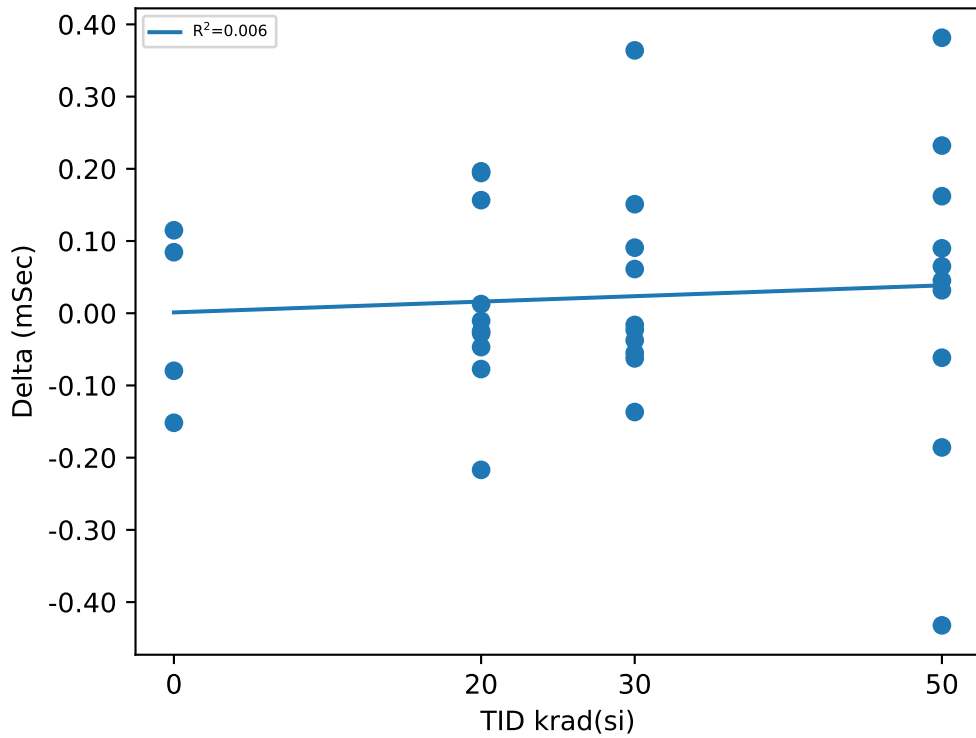## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.185 | 12.403 | 12.517 | 0.15434 | 12.177 | 12.416 | 12.696 | 0.21311 | -0.1167 | 0.0128 | 0.1787 | 0.12243 |
| 20 | 12.091 | 12.374 | 12.639 | 0.1721 | 12.071 | 12.371 | 12.703 | 0.22486 | -0.1905 | -0.00281 | 0.2012 | 0.1114 |
| 30 | 12.132 | 12.382 | 12.572 | 0.13076 | 12.27 | 12.385 | 12.511 | 0.086288 | -0.1828 | 0.00296 | 0.2132 | 0.12452 |
| 50 | 12.172 | 12.388 | 12.6 | 0.13173 | 12.119 | 12.446 | 12.684 | 0.19295 | -0.381 | 0.05788 | 0.3433 | 0.21568 |
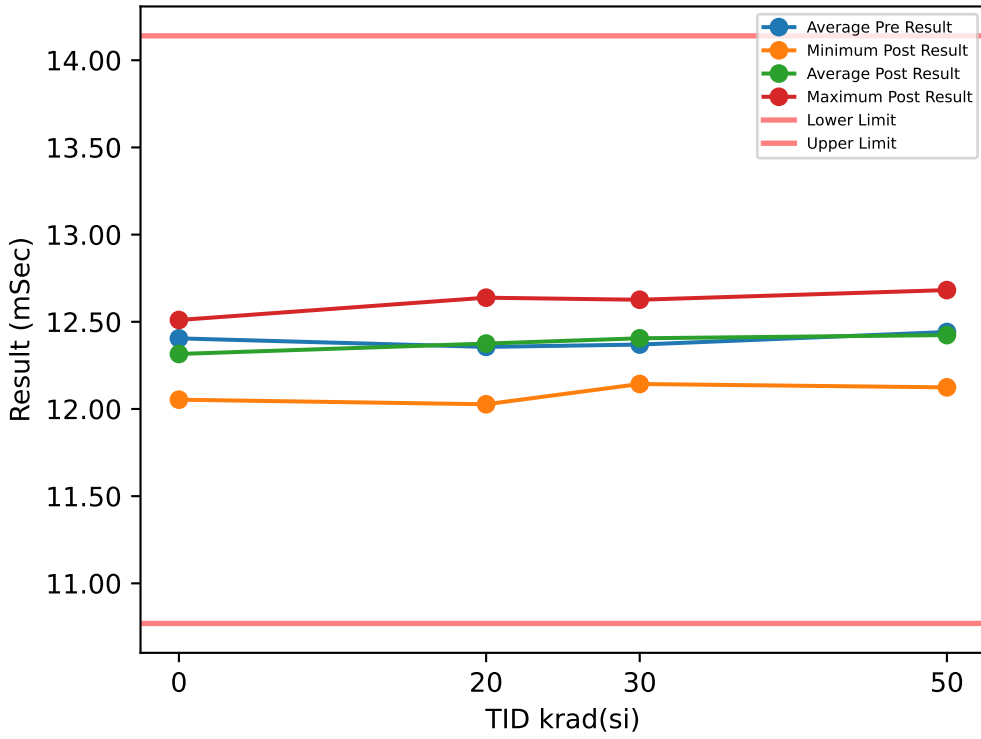
# Device Test: 17.161 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN4/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Lower Limit, Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2 = 0.005$

## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

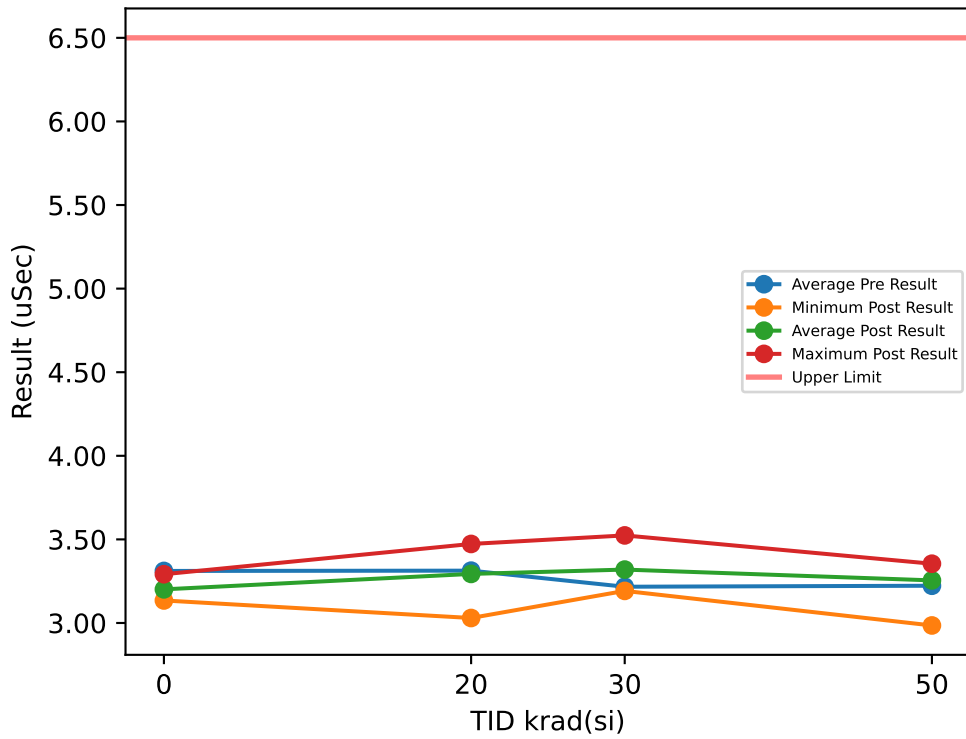| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.362 | 12.334 | -0.0281 |
| 2 | 20 | Bias | 12.417 | 12.574 | 0.1571 |
| 3 | 20 | Bias | 12.042 | 12.075 | 0.0337 |
| 4 | 20 | Bias | 12.506 | 12.575 | 0.0694 |
| 5 | 20 | Bias | 12.538 | 12.538 | 0.0002 |
| 6 | 20 | Unbiased | 12.212 | 12.027 | -0.185 |
| 7 | 20 | Unbiased | 12.44 | 12.415 | -0.0252 |
| 8 | 20 | Unbiased | 12.38 | 12.345 | -0.0348 |
| 9 | 20 | Unbiased | 12.455 | 12.638 | 0.1833 |
| 10 | 20 | Unbiased | 12.209 | 12.23 | 0.0208 |
| 11 | 30 | Bias | 12.142 | 12.413 | 0.2716 |
| 12 | 30 | Bias | 12.365 | 12.346 | -0.0193 |
| 13 | 30 | Bias | 12.449 | 12.401 | -0.0479 |
| 14 | 30 | Bias | 12.238 | 12.485 | 0.2474 |
| 15 | 30 | Bias | 12.466 | 12.303 | -0.1623 |
| 16 | 30 | Unbiased | 12.494 | 12.441 | -0.0536 |
| 17 | 30 | Unbiased | 12.57 | 12.504 | -0.066 |
| 18 | 30 | Unbiased | 12.373 | 12.626 | 0.2531 |
| 19 | 30 | Unbiased | 12.303 | 12.393 | 0.09 |
| 20 | 30 | Unbiased | 12.296 | 12.143 | -0.1524 |
| 21 | 50 | Bias | 12.169 | 12.302 | 0.1333 |
| 22 | 50 | Bias | 12.18 | 12.23 | 0.0507 |
| 23 | 50 | Bias | 12.499 | 12.124 | -0.3748 |
| 24 | 50 | Bias | 12.335 | 12.491 | 0.1561 |
| 25 | 50 | Bias | 12.565 | 12.641 | 0.076 |
| 26 | 50 | Unbiased | 12.599 | 12.682 | 0.0833 |
| 27 | 50 | Unbiased | 12.412 | 12.342 | -0.0702 |
| 28 | 50 | Unbiased | 12.56 | 12.52 | -0.04 |
| 29 | 50 | Unbiased | 12.657 | 12.506 | -0.1511 |
| 30 | 50 | Unbiased | 12.44 | 12.4 | -0.0398 |
| 31 | 0 | Correlation | 12.417 | 12.279 | -0.1381 |
| 32 | 0 | Correlation | 12.183 | 12.053 | -0.1295 |
| 33 | 0 | Correlation | 12.516 | 12.51 | -0.0055 |
| 34 | 0 | Correlation | 12.504 | 12.419 | -0.0852 |

## Test Statistics (mSec)
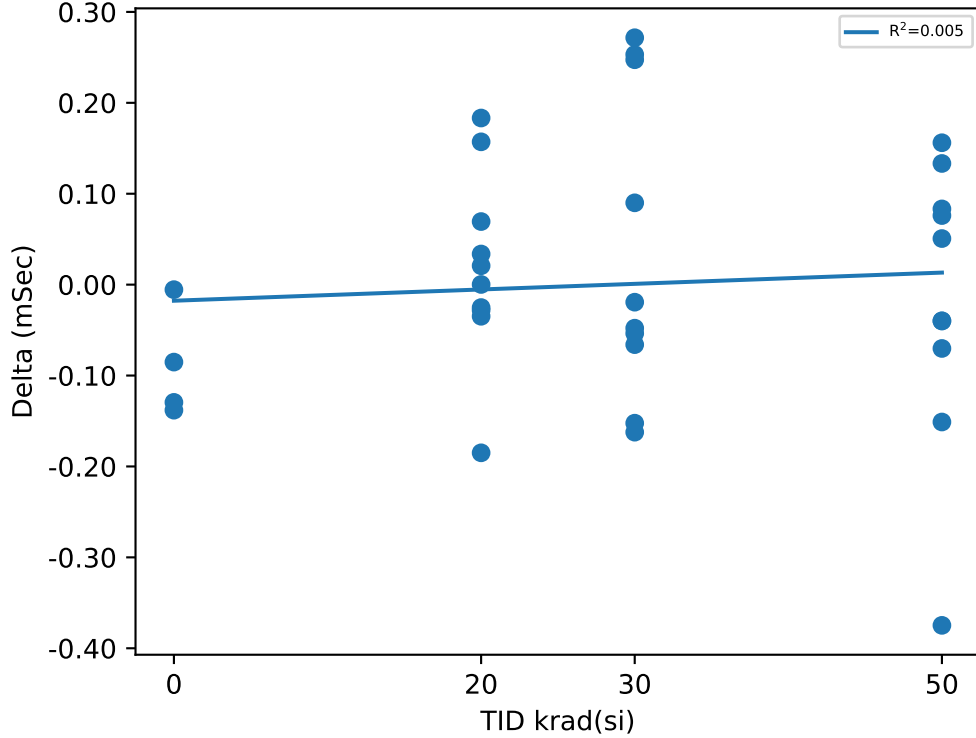
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.183 | 12.405 | 12.516 | 0.15449 | 12.053 | 12.315 | 12.51 | 0.19889 | -0.1381 | -0.089575 | -0.0055 | 0.060653 |
| 20 | 12.042 | 12.356 | 12.538 | 0.15556 | 12.027 | 12.375 | 12.638 | 0.21389 | -0.185 | 0.01914 | 0.1833 | 0.10428 |
| 30 | 12.142 | 12.369 | 12.57 | 0.1293 | 12.143 | 12.405 | 12.626 | 0.12867 | -0.1623 | 0.03606 | 0.2716 | 0.16786 |
| 50 | 12.169 | 12.441 | 12.657 | 0.16961 | 12.124 | 12.424 | 12.682 | 0.17751 | -0.3748 | -0.01765 | 0.1561 | 0.15837 |
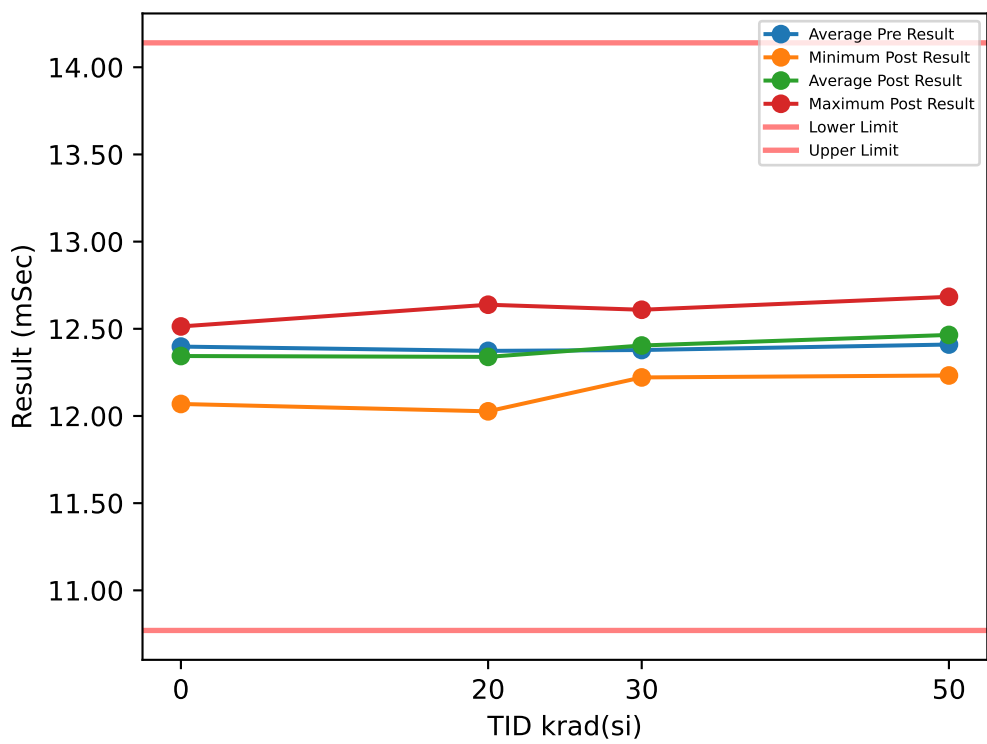
# Device Test: 17.162 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/SEQ_DONE/7/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 12.232 | 12.222 | -0.0102 |
| 2 | 20 | Bias | 12.598 | 12.576 | -0.0218 |
| 3 | 20 | Bias | 12.156 | 12.08 | -0.0756 |
| 4 | 20 | Bias | 12.507 | 12.571 | 0.0648 |
| 5 | 20 | Bias | 12.53 | 12.54 | 0.01 |
| 6 | 20 | Unbiased | 12.222 | 12.027 | -0.195 |
| 7 | 20 | Unbiased | 12.411 | 12.288 | -0.1229 |
| 8 | 20 | Unbiased | 12.405 | 12.347 | -0.0588 |
| 9 | 20 | Unbiased | 12.458 | 12.638 | 0.1805 |
| 10 | 20 | Unbiased | 12.215 | 12.1 | -0.1154 |
| 11 | 30 | Bias | 12.263 | 12.396 | 0.133 |
| 12 | 30 | Bias | 12.351 | 12.221 | -0.1302 |
| 13 | 30 | Bias | 12.46 | 12.401 | -0.0595 |
| 14 | 30 | Bias | 12.115 | 12.457 | 0.3411 |
| 15 | 30 | Bias | 12.463 | 12.301 | -0.1619 |
| 16 | 30 | Unbiased | 12.508 | 12.472 | -0.0364 |
| 17 | 30 | Unbiased | 12.544 | 12.512 | -0.0321 |
| 18 | 30 | Unbiased | 12.376 | 12.609 | 0.2336 |
| 19 | 30 | Unbiased | 12.286 | 12.392 | 0.1059 |
| 20 | 30 | Unbiased | 12.416 | 12.281 | -0.1343 |
| 21 | 50 | Bias | 12.037 | 12.44 | 0.4027 |
| 22 | 50 | Bias | 12.188 | 12.232 | 0.0439 |
| 23 | 50 | Bias | 12.693 | 12.247 | -0.4457 |
| 24 | 50 | Bias | 12.342 | 12.498 | 0.1558 |
| 25 | 50 | Bias | 12.58 | 12.644 | 0.0644 |
| 26 | 50 | Unbiased | 12.415 | 12.684 | 0.2687 |
| 27 | 50 | Unbiased | 12.391 | 12.337 | -0.0545 |
| 28 | 50 | Unbiased | 12.559 | 12.527 | -0.0319 |
| 29 | 50 | Unbiased | 12.476 | 12.508 | 0.0324 |
| 30 | 50 | Unbiased | 12.415 | 12.53 | 0.1151 |
| 31 | 0 | Correlation | 12.416 | 12.399 | -0.0173 |
| 32 | 0 | Correlation | 12.182 | 12.069 | -0.1128 |
| 33 | 0 | Correlation | 12.521 | 12.514 | -0.0079 |
| 34 | 0 | Correlation | 12.473 | 12.394 | -0.0785 |

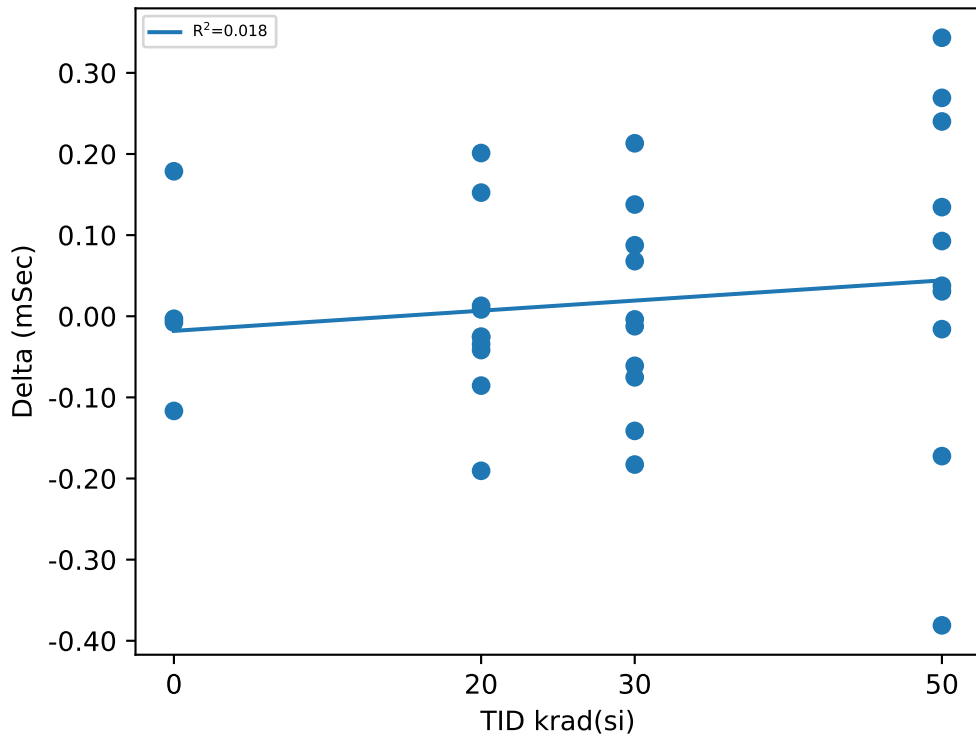## Test Statistics (mSec)
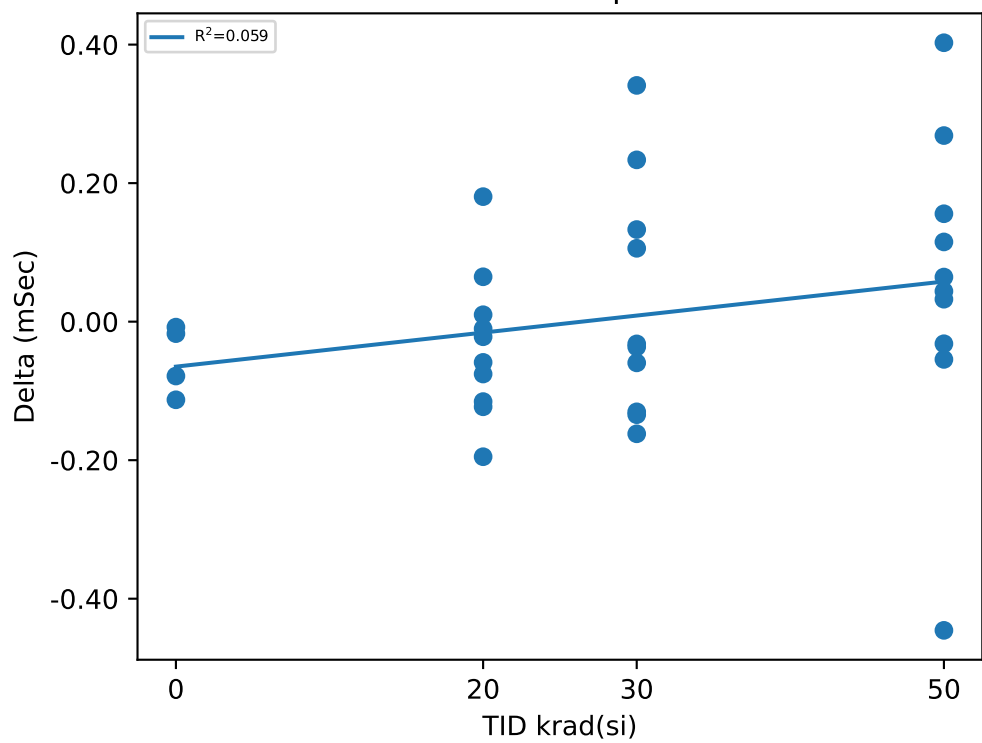
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 12.182 | 12.398 | 12.521 | 0.15044 | 12.069 | 12.344 | 12.514 | 0.19143 | -0.1128 | -0.054125 | -0.0079 | 0.050099 |
| 20 | 12.156 | 12.373 | 12.598 | 0.15558 | 12.027 | 12.339 | 12.638 | 0.23058 | -0.195 | -0.03444 | 0.1805 | 0.10605 |
| 30 | 12.115 | 12.378 | 12.544 | 0.1296 | 12.221 | 12.404 | 12.609 | 0.11568 | -0.1619 | 0.02592 | 0.3411 | 0.17003 |
| 50 | 12.037 | 12.41 | 12.693 | 0.19103 | 12.232 | 12.465 | 12.684 | 0.1526 | -0.4457 | 0.05509 | 0.4027 | 0.22393 |

# Device Test: 17.163 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN1/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.931 | 23.184 | 0.2527 |
| 2 | 20 | Bias | 23.57 | 23.812 | 0.2414 |
| 3 | 20 | Bias | 22.902 | 22.748 | -0.1535 |
| 4 | 20 | Bias | 24.046 | 24.139 | 0.0923 |
| 5 | 20 | Bias | 23.785 | 23.802 | 0.0175 |
| 6 | 20 | Unbiased | 23.23 | 23.023 | -0.2074 |
| 7 | 20 | Unbiased | 23.517 | 23.186 | -0.3304 |
| 8 | 20 | Unbiased | 23.404 | 22.992 | -0.4119 |
| 9 | 20 | Unbiased | 23.831 | 23.675 | -0.156 |
| 10 | 20 | Unbiased | 22.75 | 23.127 | 0.3771 |
| 11 | 30 | Bias | 23.04 | 23.223 | 0.1833 |
| 12 | 30 | Bias | 23.436 | 23.485 | 0.049 |
| 13 | 30 | Bias | 23.243 | 23.163 | -0.0808 |
| 14 | 30 | Bias | 23.03 | 23.557 | 0.5273 |
| 15 | 30 | Bias | 23.601 | 23.147 | -0.4539 |
| 16 | 30 | Unbiased | 23.456 | 23.293 | -0.163 |
| 17 | 30 | Unbiased | 23.521 | 23.437 | -0.084 |
| 18 | 30 | Unbiased | 23.132 | 23.87 | 0.7379 |
| 19 | 30 | Unbiased | 23.458 | 23.437 | -0.0209 |
| 20 | 30 | Unbiased | 23.459 | 23.394 | -0.0642 |
| 21 | 50 | Bias | 23.165 | 23.203 | 0.0381 |
| 22 | 50 | Bias | 23.178 | 22.976 | -0.2028 |
| 23 | 50 | Bias | 23.768 | 23.328 | -0.4399 |
| 24 | 50 | Bias | 23.293 | 23.731 | 0.4379 |
| 25 | 50 | Bias | 23.377 | 23.507 | 0.1302 |
| 26 | 50 | Unbiased | 23.854 | 23.982 | 0.128 |
| 27 | 50 | Unbiased | 23.372 | 23.299 | -0.073 |
| 28 | 50 | Unbiased | 23.823 | 23.465 | -0.3576 |
| 29 | 50 | Unbiased | 23.942 | 24.029 | 0.0877 |
| 30 | 50 | Unbiased | 23.216 | 23.753 | 0.5374 |
| 31 | 0 | Correlation | 23.178 | 23.459 | 0.2802 |
| 32 | 0 | Correlation | 22.933 | 22.943 | 0.0096 |
| 33 | 0 | Correlation | 23.917 | 23.69 | -0.2269 |
| 34 | 0 | Correlation | 23.421 | 23.196 | -0.2253 |

## Test Statistics (mSec)
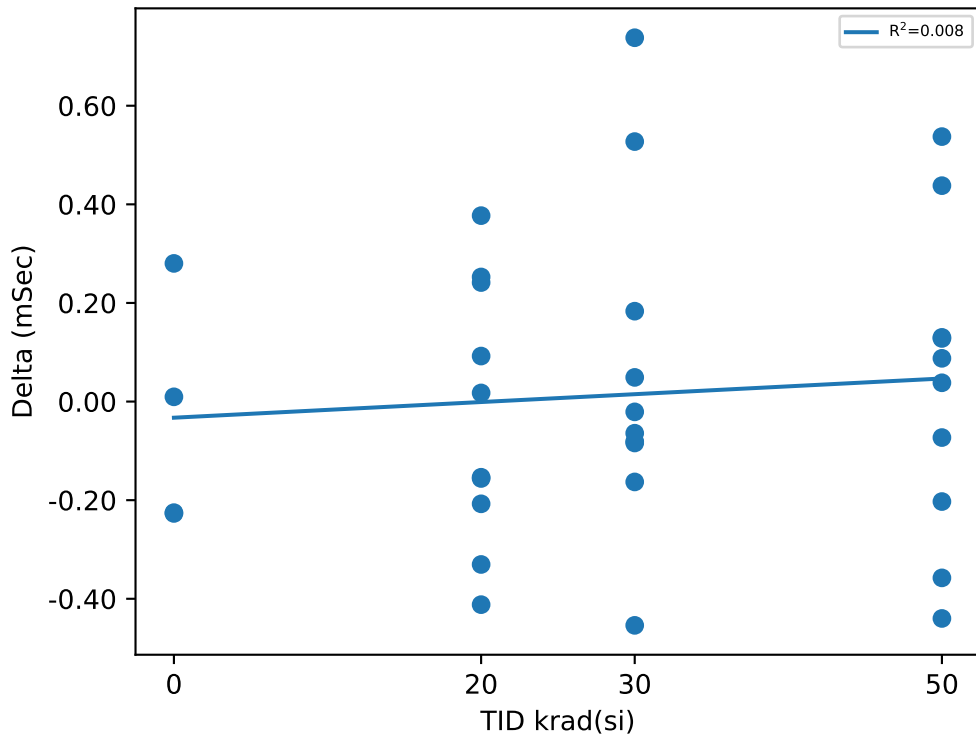
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.933 | 23.362 | 23.917 | 0.41979 | 22.943 | 23.322 | 23.69 | 0.32331 | -0.2269 | -0.0406 | 0.2802 | 0.24101 |
| 20 | 22.75 | 23.397 | 24.046 | 0.4363 | 22.748 | 23.369 | 24.139 | 0.45259 | -0.4119 | -0.02782 | 0.3771 | 0.26566 |
| 30 | 23.03 | 23.337 | 23.601 | 0.20836 | 23.147 | 23.401 | 23.87 | 0.21563 | -0.4539 | 0.06307 | 0.7379 | 0.34472 |
| 50 | 23.165 | 23.499 | 23.942 | 0.31035 | 22.976 | 23.527 | 24.029 | 0.34266 | -0.4399 | 0.0286 | 0.5374 | 0.31317 |

# Device Test: 17.164 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN2/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

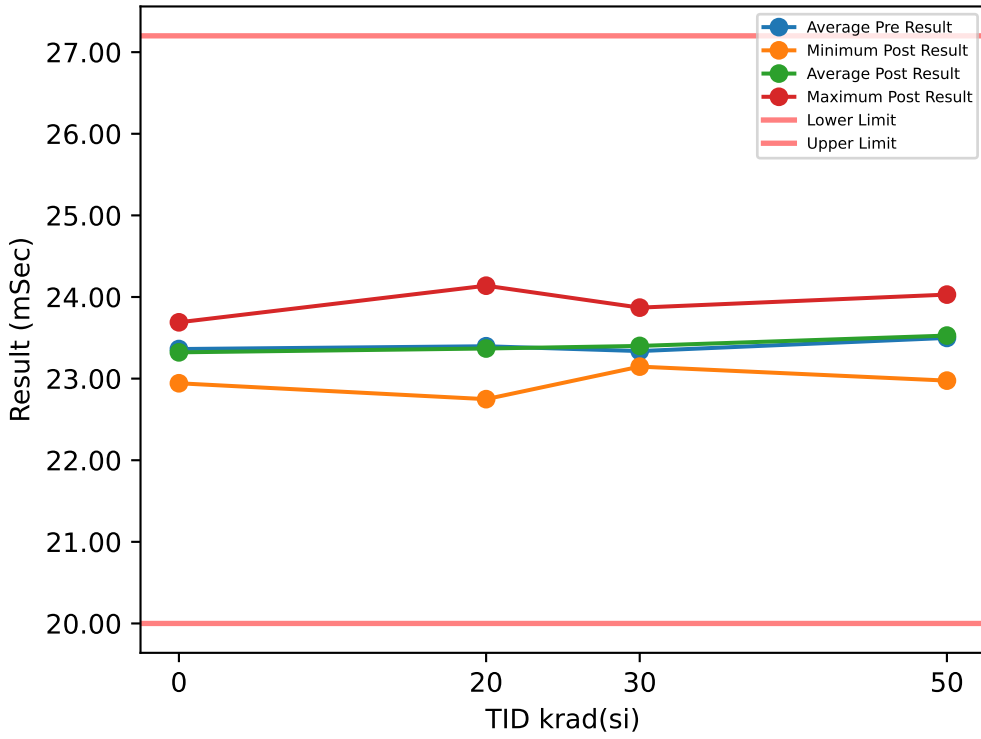| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.936 | 22.851 | -0.0847 |
| 2 | 20 | Bias | 23.601 | 23.518 | -0.0823 |
| 3 | 20 | Bias | 22.593 | 23.05 | 0.4574 |
| 4 | 20 | Bias | 23.795 | 23.841 | 0.0465 |
| 5 | 20 | Bias | 23.509 | 23.52 | 0.0115 |
| 6 | 20 | Unbiased | 22.906 | 23.092 | 0.1858 |
| 7 | 20 | Unbiased | 23.211 | 23.175 | -0.0361 |
| 8 | 20 | Unbiased | 23.146 | 22.999 | -0.1471 |
| 9 | 20 | Unbiased | 23.727 | 23.707 | -0.0202 |
| 10 | 20 | Unbiased | 22.761 | 22.798 | 0.0375 |
| 11 | 30 | Bias | 23.029 | 23.186 | 0.1569 |
| 12 | 30 | Bias | 23.132 | 23.199 | 0.0671 |
| 13 | 30 | Bias | 23.291 | 23.17 | -0.1205 |
| 14 | 30 | Bias | 22.752 | 23.291 | 0.5394 |
| 15 | 30 | Bias | 23.288 | 22.889 | -0.3987 |
| 16 | 30 | Unbiased | 23.418 | 23.279 | -0.1384 |
| 17 | 30 | Unbiased | 23.527 | 23.406 | -0.1209 |
| 18 | 30 | Unbiased | 23.101 | 23.628 | 0.5268 |
| 19 | 30 | Unbiased | 23.132 | 23.133 | 0.0008 |
| 20 | 30 | Unbiased | 23.213 | 23.08 | -0.1337 |
| 21 | 50 | Bias | 22.849 | 23.228 | 0.3784 |
| 22 | 50 | Bias | 22.912 | 22.951 | 0.0382 |
| 23 | 50 | Bias | 23.737 | 23.02 | -0.7172 |
| 24 | 50 | Bias | 23.034 | 23.716 | 0.6828 |
| 25 | 50 | Bias | 23.401 | 23.485 | 0.0836 |
| 26 | 50 | Unbiased | 23.564 | 23.675 | 0.1108 |
| 27 | 50 | Unbiased | 23.138 | 22.976 | -0.1614 |
| 28 | 50 | Unbiased | 23.537 | 23.433 | -0.1035 |
| 29 | 50 | Unbiased | 23.668 | 23.781 | 0.1128 |
| 30 | 50 | Unbiased | 23.249 | 23.456 | 0.2076 |
| 31 | 0 | Correlation | 23.19 | 23.151 | -0.0389 |
| 32 | 0 | Correlation | 22.937 | 22.911 | -0.0268 |
| 33 | 0 | Correlation | 23.689 | 23.676 | -0.0132 |
| 34 | 0 | Correlation | 23.394 | 23.212 | -0.1825 |

## Test Statistics (mSec)
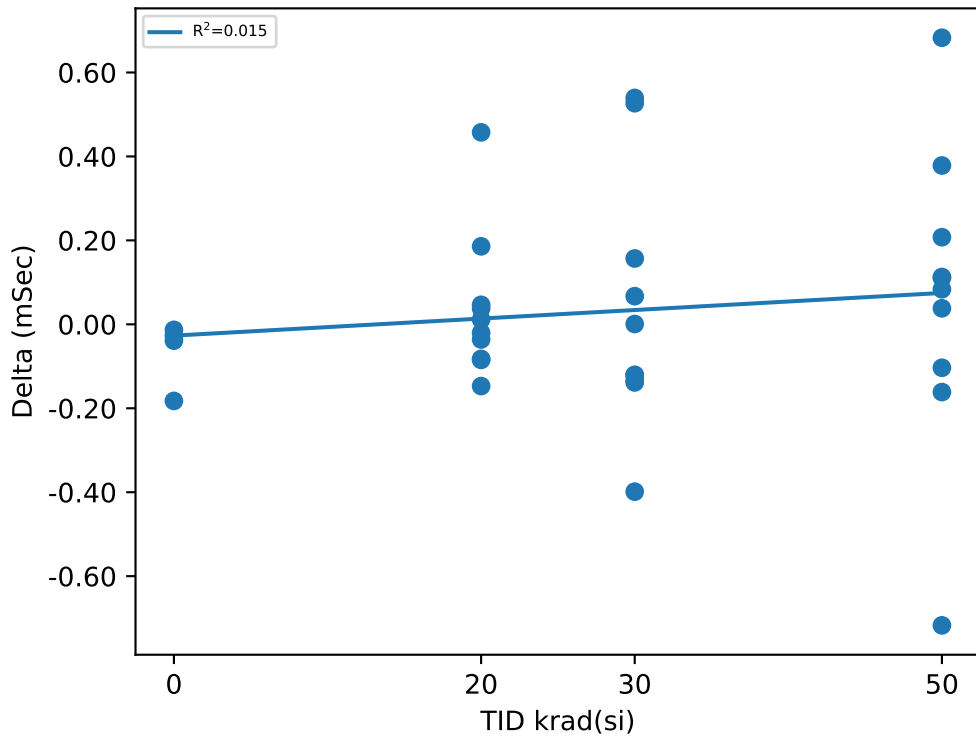
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.937 | 23.303 | 23.689 | 0.31824 | 22.911 | 23.237 | 23.676 | 0.32002 | -0.1825 | -0.06535 | -0.0132 | 0.078802 |
| 20 | 22.593 | 23.218 | 23.795 | 0.42228 | 22.798 | 23.255 | 23.841 | 0.36513 | -0.1471 | 0.03683 | 0.4574 | 0.17358 |
| 30 | 22.752 | 23.188 | 23.527 | 0.21562 | 22.889 | 23.226 | 23.628 | 0.19718 | -0.3987 | 0.03788 | 0.5394 | 0.2997 |
| 50 | 22.849 | 23.309 | 23.737 | 0.31879 | 22.951 | 23.372 | 23.781 | 0.31271 | -0.7172 | 0.06321 | 0.6828 | 0.36471 |

# Device Test: 17.165 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN3/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

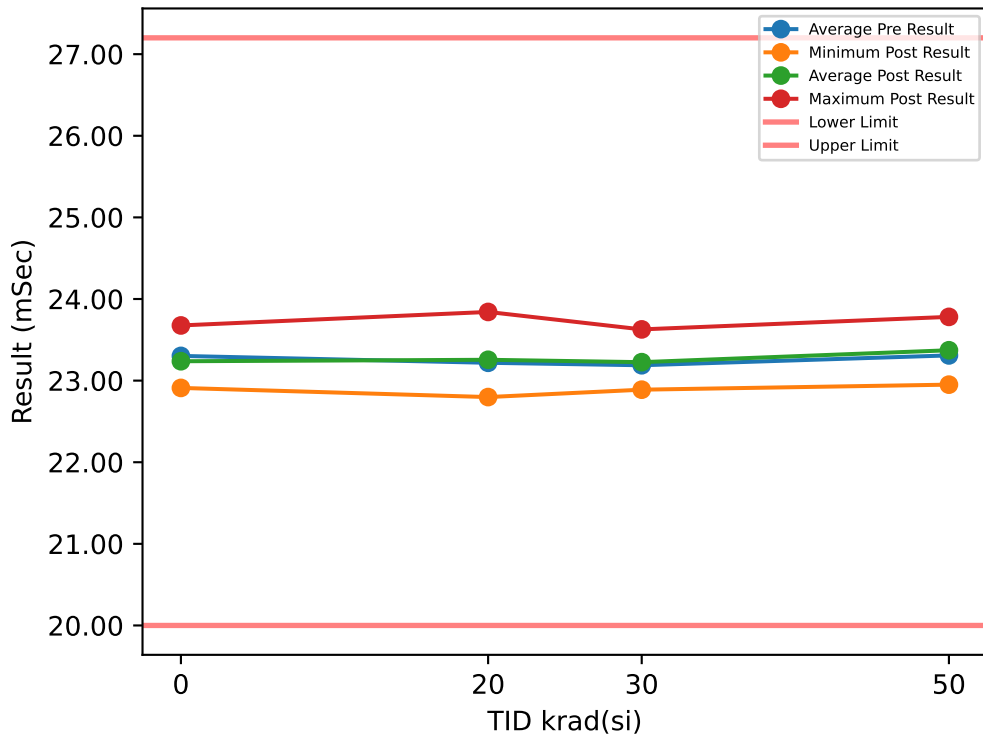| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.938 | 22.855 | -0.0835 |
| 2 | 20 | Bias | 23.606 | 23.527 | -0.0787 |
| 3 | 20 | Bias | 22.596 | 22.694 | 0.0979 |
| 4 | 20 | Bias | 23.798 | 23.848 | 0.0495 |
| 5 | 20 | Bias | 23.481 | 23.524 | 0.0434 |
| 6 | 20 | Unbiased | 22.925 | 22.745 | -0.1793 |
| 7 | 20 | Unbiased | 23.212 | 23.198 | -0.0138 |
| 8 | 20 | Unbiased | 23.151 | 22.994 | -0.1566 |
| 9 | 20 | Unbiased | 23.716 | 23.685 | -0.0314 |
| 10 | 20 | Unbiased | 22.753 | 22.802 | 0.0496 |
| 11 | 30 | Bias | 23.061 | 23.184 | 0.1228 |
| 12 | 30 | Bias | 23.144 | 23.211 | 0.067 |
| 13 | 30 | Bias | 23.288 | 23.165 | -0.1231 |
| 14 | 30 | Bias | 22.772 | 23.319 | 0.5472 |
| 15 | 30 | Bias | 23.284 | 22.89 | -0.394 |
| 16 | 30 | Unbiased | 23.425 | 23.283 | -0.1429 |
| 17 | 30 | Unbiased | 23.504 | 23.445 | -0.0598 |
| 18 | 30 | Unbiased | 23.13 | 23.626 | 0.4962 |
| 19 | 30 | Unbiased | 23.142 | 23.121 | -0.0207 |
| 20 | 30 | Unbiased | 23.224 | 23.096 | -0.1289 |
| 21 | 50 | Bias | 22.848 | 23.234 | 0.386 |
| 22 | 50 | Bias | 22.915 | 22.954 | 0.0391 |
| 23 | 50 | Bias | 23.759 | 23.029 | -0.7295 |
| 24 | 50 | Bias | 23.032 | 23.741 | 0.7081 |
| 25 | 50 | Bias | 23.403 | 23.491 | 0.0875 |
| 26 | 50 | Unbiased | 23.581 | 23.718 | 0.1375 |
| 27 | 50 | Unbiased | 23.132 | 23.006 | -0.1256 |
| 28 | 50 | Unbiased | 23.528 | 23.471 | -0.0572 |
| 29 | 50 | Unbiased | 23.689 | 23.784 | 0.0956 |
| 30 | 50 | Unbiased | 23.246 | 23.473 | 0.2268 |
| 31 | 0 | Correlation | 23.173 | 23.155 | -0.0187 |
| 32 | 0 | Correlation | 22.94 | 22.93 | -0.0099 |
| 33 | 0 | Correlation | 23.676 | 23.67 | -0.0062 |
| 34 | 0 | Correlation | 23.419 | 23.217 | -0.2017 |

## Test Statistics (mSec)
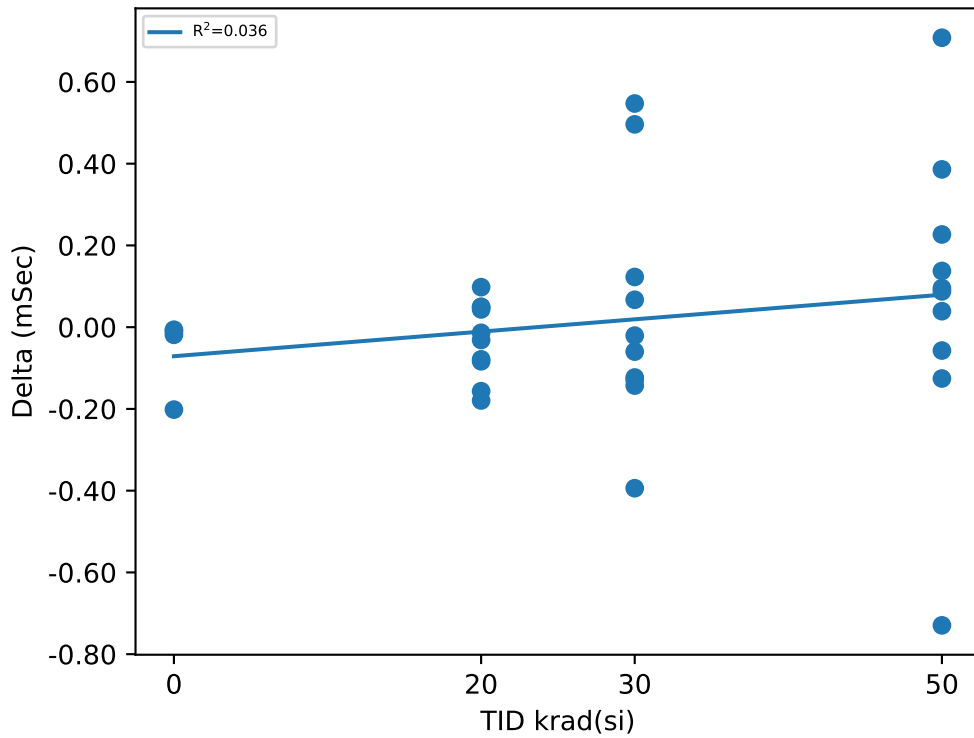
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.94 | 23.302 | 23.676 | 0.31699 | 22.93 | 23.243 | 23.67 | 0.31031 | -0.2017 | -0.059125 | -0.0062 | 0.095194 |
| 20 | 22.596 | 23.217 | 23.798 | 0.41854 | 22.694 | 23.187 | 23.848 | 0.42784 | -0.1793 | -0.03029 | 0.0979 | 0.093225 |
| 30 | 22.772 | 23.197 | 23.504 | 0.20346 | 22.89 | 23.234 | 23.626 | 0.20166 | -0.394 | 0.03638 | 0.5472 | 0.29124 |
| 50 | 22.848 | 23.313 | 23.759 | 0.32592 | 22.954 | 23.39 | 23.784 | 0.31646 | -0.7295 | 0.07683 | 0.7081 | 0.36987 |

# Device Test: 17.166 DLY_TMR_1MOHM(_DELAY|STEP_UP/EN4/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.935 | 23.2 | 0.2647 |
| 2 | 20 | Bias | 23.598 | 23.511 | -0.0874 |
| 3 | 20 | Bias | 22.615 | 23.053 | 0.438 |
| 4 | 20 | Bias | 23.785 | 23.843 | 0.0585 |
| 5 | 20 | Bias | 23.511 | 23.51 | -0.0009 |
| 6 | 20 | Unbiased | 22.931 | 22.753 | -0.1786 |
| 7 | 20 | Unbiased | 23.23 | 23.196 | -0.0346 |
| 8 | 20 | Unbiased | 23.13 | 22.988 | -0.1416 |
| 9 | 20 | Unbiased | 23.721 | 23.701 | -0.0205 |
| 10 | 20 | Unbiased | 22.764 | 22.799 | 0.0349 |
| 11 | 30 | Bias | 23.058 | 23.188 | 0.1298 |
| 12 | 30 | Bias | 23.138 | 23.222 | 0.0837 |
| 13 | 30 | Bias | 23.292 | 23.196 | -0.0956 |
| 14 | 30 | Bias | 22.77 | 23.305 | 0.5359 |
| 15 | 30 | Bias | 23.288 | 22.889 | -0.3987 |
| 16 | 30 | Unbiased | 23.433 | 23.263 | -0.1699 |
| 17 | 30 | Unbiased | 23.508 | 23.434 | -0.0745 |
| 18 | 30 | Unbiased | 23.126 | 23.657 | 0.531 |
| 19 | 30 | Unbiased | 23.153 | 23.147 | -0.0064 |
| 20 | 30 | Unbiased | 23.206 | 23.092 | -0.1135 |
| 21 | 50 | Bias | 22.851 | 23.184 | 0.3335 |
| 22 | 50 | Bias | 22.913 | 22.953 | 0.0401 |
| 23 | 50 | Bias | 23.753 | 23.04 | -0.714 |
| 24 | 50 | Bias | 23.021 | 23.729 | 0.7088 |
| 25 | 50 | Bias | 23.398 | 23.503 | 0.1058 |
| 26 | 50 | Unbiased | 23.578 | 23.711 | 0.1325 |
| 27 | 50 | Unbiased | 23.142 | 23.002 | -0.14 |
| 28 | 50 | Unbiased | 23.536 | 23.444 | -0.0917 |
| 29 | 50 | Unbiased | 23.674 | 23.757 | 0.0825 |
| 30 | 50 | Unbiased | 23.249 | 23.463 | 0.2147 |
| 31 | 0 | Correlation | 23.165 | 23.168 | 0.0027 |
| 32 | 0 | Correlation | 22.94 | 22.9 | -0.04 |
| 33 | 0 | Correlation | 23.696 | 23.687 | -0.009 |
| 34 | 0 | Correlation | 23.409 | 23.213 | -0.1962 |

## Test Statistics (mSec)
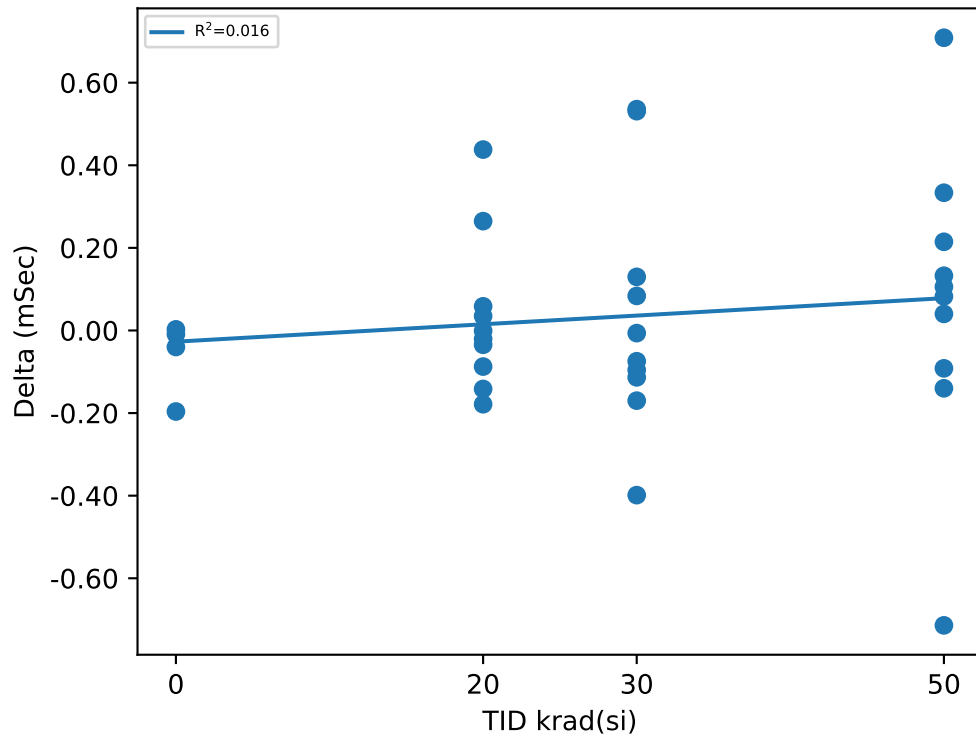
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.94 | 23.303 | 23.696 | 0.32481 | 22.9 | 23.242 | 23.687 | 0.32725 | -0.1962 | -0.060625 | 0.0027 | 0.092161 |
| 20 | 22.615 | 23.222 | 23.785 | 0.41432 | 22.753 | 23.255 | 23.843 | 0.37334 | -0.1786 | 0.03325 | 0.438 | 0.18759 |
| 30 | 22.77 | 23.197 | 23.508 | 0.20607 | 22.889 | 23.239 | 23.657 | 0.20411 | -0.3987 | 0.04218 | 0.5359 | 0.2964 |
| 50 | 22.851 | 23.312 | 23.753 | 0.32399 | 22.953 | 23.379 | 23.757 | 0.31258 | -0.714 | 0.06722 | 0.7088 | 0.36355 |
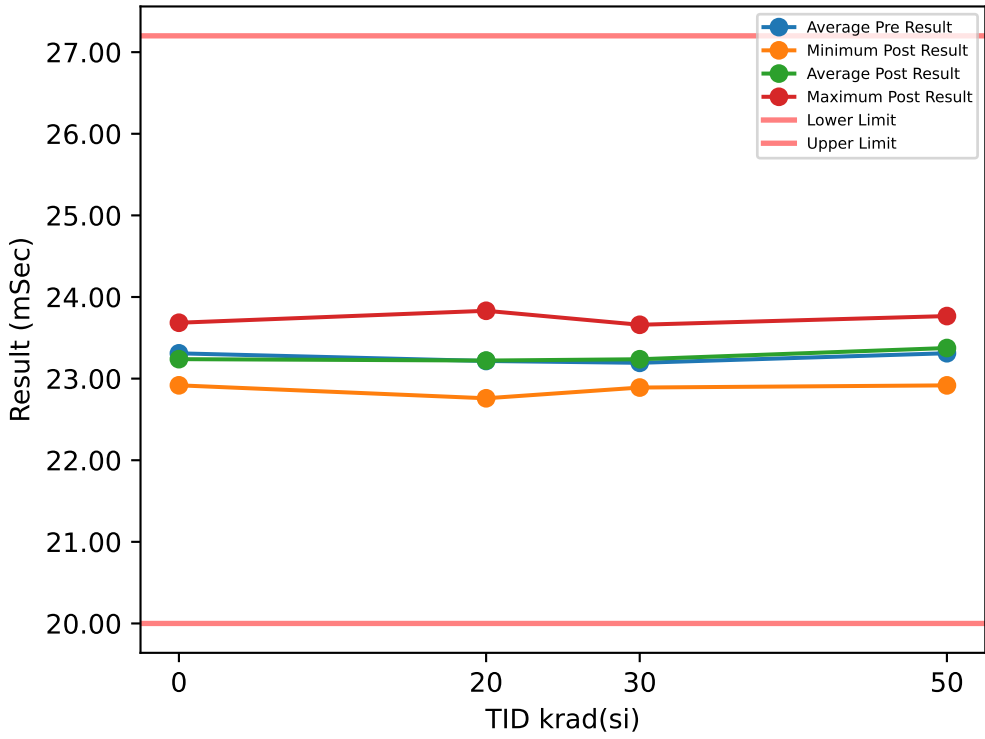
# Device Test: 17.167 DLY_TMR_1MOHM(_DELAY|STEP_UP/SEQ_DONE/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

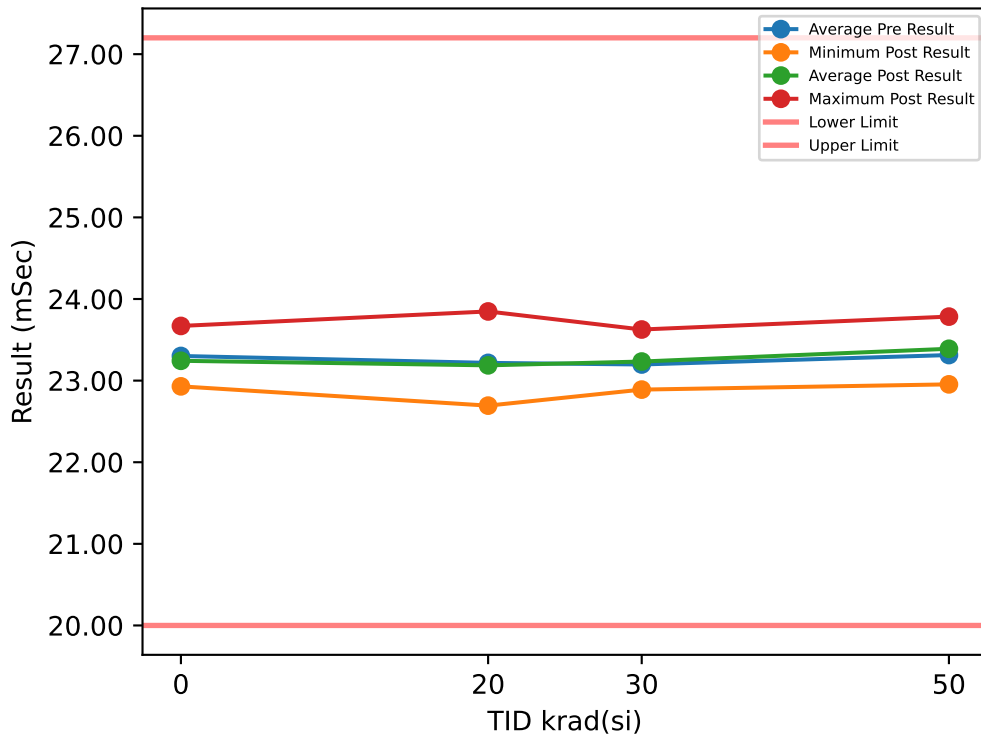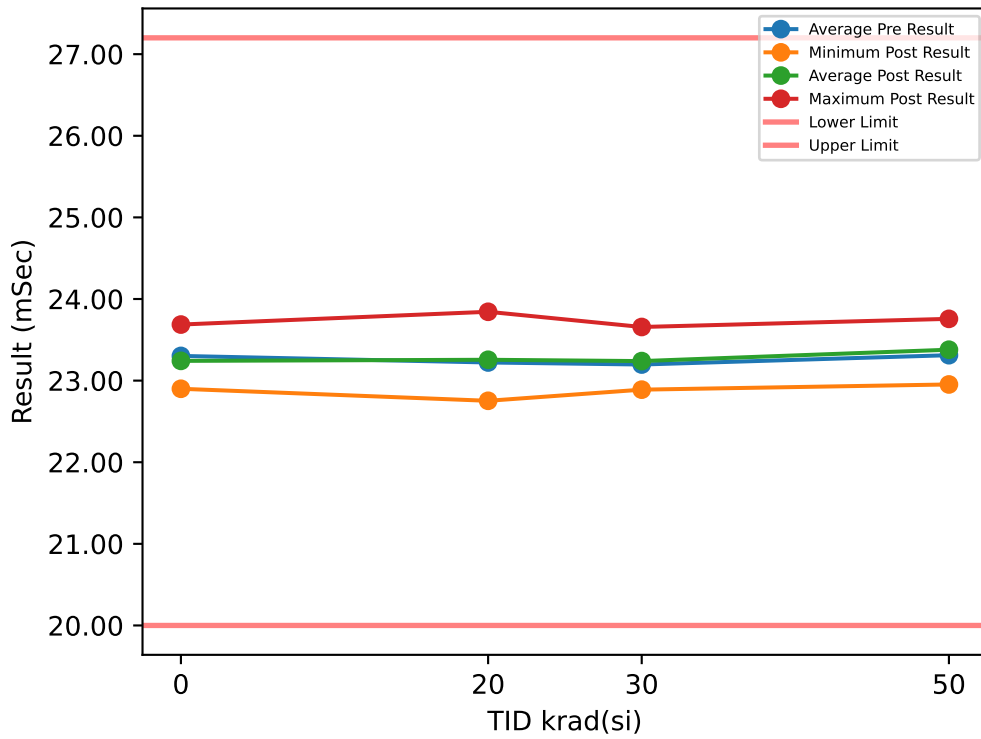| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 22.939 | 22.871 | -0.0681 |
| 2 | 20 | Bias | 23.598 | 23.518 | -0.0798 |
| 3 | 20 | Bias | 22.616 | 23.03 | 0.4144 |
| 4 | 20 | Bias | 23.803 | 23.831 | 0.0285 |
| 5 | 20 | Bias | 23.475 | 23.521 | 0.0466 |
| 6 | 20 | Unbiased | 22.935 | 22.759 | -0.1757 |
| 7 | 20 | Unbiased | 23.206 | 23.184 | -0.022 |
| 8 | 20 | Unbiased | 23.116 | 23.014 | -0.1017 |
| 9 | 20 | Unbiased | 23.708 | 23.686 | -0.0218 |
| 10 | 20 | Unbiased | 22.765 | 22.798 | 0.0322 |
| 11 | 30 | Bias | 23.059 | 23.184 | 0.1251 |
| 12 | 30 | Bias | 23.134 | 23.201 | 0.0665 |
| 13 | 30 | Bias | 23.275 | 23.167 | -0.1082 |
| 14 | 30 | Bias | 22.769 | 23.323 | 0.5534 |
| 15 | 30 | Bias | 23.272 | 22.891 | -0.3815 |
| 16 | 30 | Unbiased | 23.428 | 23.282 | -0.1459 |
| 17 | 30 | Unbiased | 23.528 | 23.442 | -0.086 |
| 18 | 30 | Unbiased | 23.119 | 23.66 | 0.5408 |
| 19 | 30 | Unbiased | 23.154 | 23.146 | -0.0079 |
| 20 | 30 | Unbiased | 23.196 | 23.079 | -0.1164 |
| 21 | 50 | Bias | 22.851 | 23.229 | 0.3783 |
| 22 | 50 | Bias | 22.915 | 22.917 | 0.0026 |
| 23 | 50 | Bias | 23.755 | 23.041 | -0.7137 |
| 24 | 50 | Bias | 23.037 | 23.709 | 0.6721 |
| 25 | 50 | Bias | 23.396 | 23.461 | 0.0647 |
| 26 | 50 | Unbiased | 23.572 | 23.717 | 0.1445 |
| 27 | 50 | Unbiased | 23.126 | 23.001 | -0.125 |
| 28 | 50 | Unbiased | 23.535 | 23.436 | -0.0993 |
| 29 | 50 | Unbiased | 23.689 | 23.766 | 0.077 |
| 30 | 50 | Unbiased | 23.233 | 23.471 | 0.2379 |
| 31 | 0 | Correlation | 23.19 | 23.145 | -0.0451 |
| 32 | 0 | Correlation | 22.939 | 22.918 | -0.021 |
| 33 | 0 | Correlation | 23.697 | 23.685 | -0.0122 |
| 34 | 0 | Correlation | 23.413 | 23.207 | -0.2067 |

## Test Statistics (mSec)
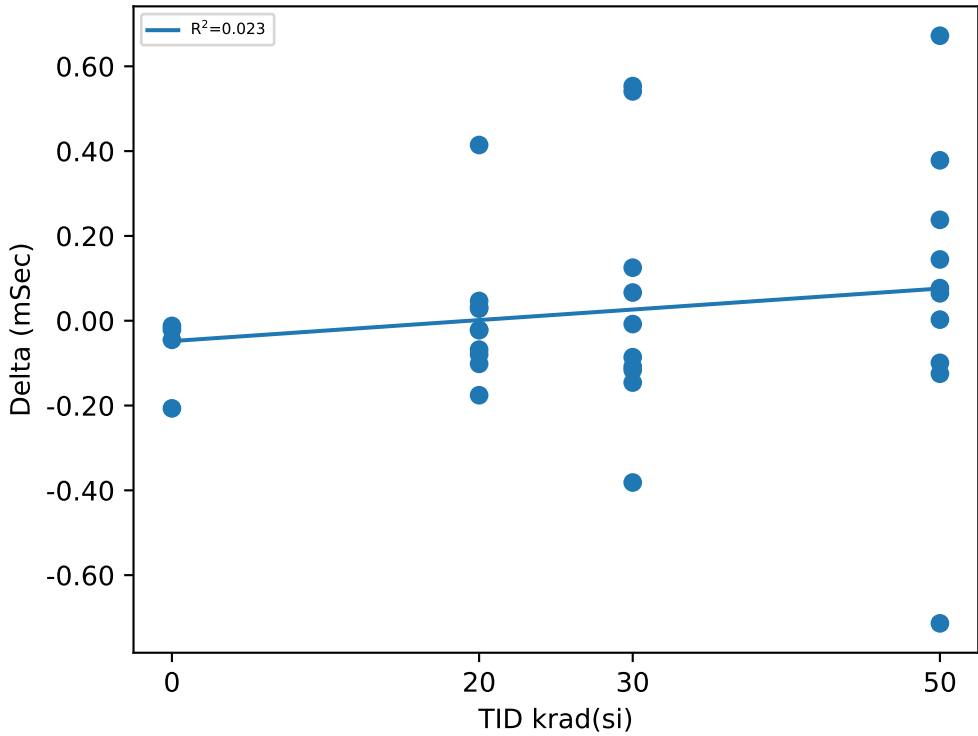
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 22.939 | 23.31 | 23.697 | 0.32272 | 22.918 | 23.239 | 23.685 | 0.32229 | -0.2067 | -0.07125 | -0.0122 | 0.091365 |
| 20 | 22.616 | 23.216 | 23.803 | 0.41202 | 22.759 | 23.221 | 23.831 | 0.38909 | -0.1757 | 0.00526 | 0.4144 | 0.15939 |
| 30 | 22.769 | 23.193 | 23.528 | 0.20771 | 22.891 | 23.237 | 23.66 | 0.20873 | -0.3815 | 0.04399 | 0.5534 | 0.29795 |
| 50 | 22.851 | 23.311 | 23.755 | 0.32487 | 22.917 | 23.375 | 23.766 | 0.31335 | -0.7137 | 0.06391 | 0.6721 | 0.36155 |

# Device Test: 17.168 DLY_TMR_1MOHM(_DELAY|STEP_UP/PWRGD/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 23.179 | 22.936 | -0.2431 |
| 2 | 20 | Bias | 23.85 | 23.767 | -0.0828 |
| 3 | 20 | Bias | 22.671 | 22.733 | 0.0614 |
| 4 | 20 | Bias | 24.066 | 24.086 | 0.02 |
| 5 | 20 | Bias | 23.723 | 23.766 | 0.0431 |
| 6 | 20 | Unbiased | 22.961 | 22.794 | -0.1672 |
| 7 | 20 | Unbiased | 23.477 | 23.439 | -0.0378 |
| 8 | 20 | Unbiased | 23.392 | 23.257 | -0.1346 |
| 9 | 20 | Unbiased | 23.977 | 23.954 | -0.0227 |
| 10 | 20 | Unbiased | 23.007 | 22.857 | -0.1502 |
| 11 | 30 | Bias | 23.11 | 23.421 | 0.3104 |
| 12 | 30 | Bias | 23.179 | 23.459 | 0.28 |
| 13 | 30 | Bias | 23.539 | 23.435 | -0.1038 |
| 14 | 30 | Bias | 22.829 | 23.545 | 0.716 |
| 15 | 30 | Bias | 23.537 | 23.13 | -0.4061 |
| 16 | 30 | Unbiased | 23.681 | 23.502 | -0.1789 |
| 17 | 30 | Unbiased | 23.762 | 23.672 | -0.0893 |
| 18 | 30 | Unbiased | 23.37 | 23.905 | 0.535 |
| 19 | 30 | Unbiased | 23.388 | 23.372 | -0.0157 |
| 20 | 30 | Unbiased | 23.463 | 23.33 | -0.1327 |
| 21 | 50 | Bias | 22.909 | 23.242 | 0.3332 |
| 22 | 50 | Bias | 23.158 | 22.978 | -0.1798 |
| 23 | 50 | Bias | 23.762 | 23.283 | -0.4791 |
| 24 | 50 | Bias | 23.284 | 23.99 | 0.7062 |
| 25 | 50 | Bias | 23.649 | 23.75 | 0.1009 |
| 26 | 50 | Unbiased | 23.826 | 23.959 | 0.1335 |
| 27 | 50 | Unbiased | 23.377 | 23.029 | -0.3484 |
| 28 | 50 | Unbiased | 23.778 | 23.71 | -0.0677 |
| 29 | 50 | Unbiased | 23.939 | 24.023 | 0.0838 |
| 30 | 50 | Unbiased | 23.484 | 23.714 | 0.2302 |
| 31 | 0 | Correlation | 23.221 | 23.21 | -0.0117 |
| 32 | 0 | Correlation | 22.968 | 22.985 | 0.0164 |
| 33 | 0 | Correlation | 23.946 | 23.935 | -0.0106 |
| 34 | 0 | Correlation | 23.646 | 23.458 | -0.1876 |

## Test Statistics (mSec)
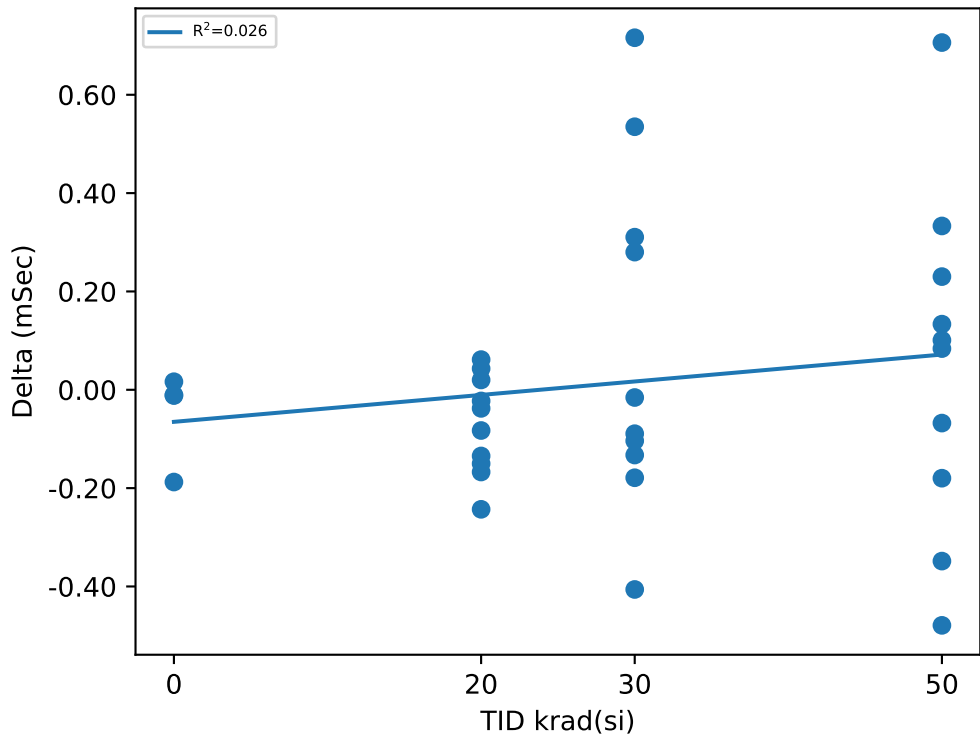
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 22.968 | 23.445 | 23.946 | 0.43511 | 22.985 | 23.397 | 23.935 | 0.40746 | -0.1876 | -0.048375 | 0.0164 | 0.093722 |
| 20 | 22.671 | 23.43 | 24.066 | 0.47212 | 22.733 | 23.359 | 24.086 | 0.51356 | -0.2431 | -0.07139 | 0.0614 | 0.10088 |
| 30 | 22.829 | 23.386 | 23.762 | 0.28092 | 23.13 | 23.477 | 23.905 | 0.20671 | -0.4061 | 0.09149 | 0.716 | 0.35331 |
| 50 | 22.909 | 23.516 | 23.939 | 0.33215 | 22.978 | 23.568 | 24.023 | 0.39981 | -0.4791 | 0.05128 | 0.7062 | 0.34307 |
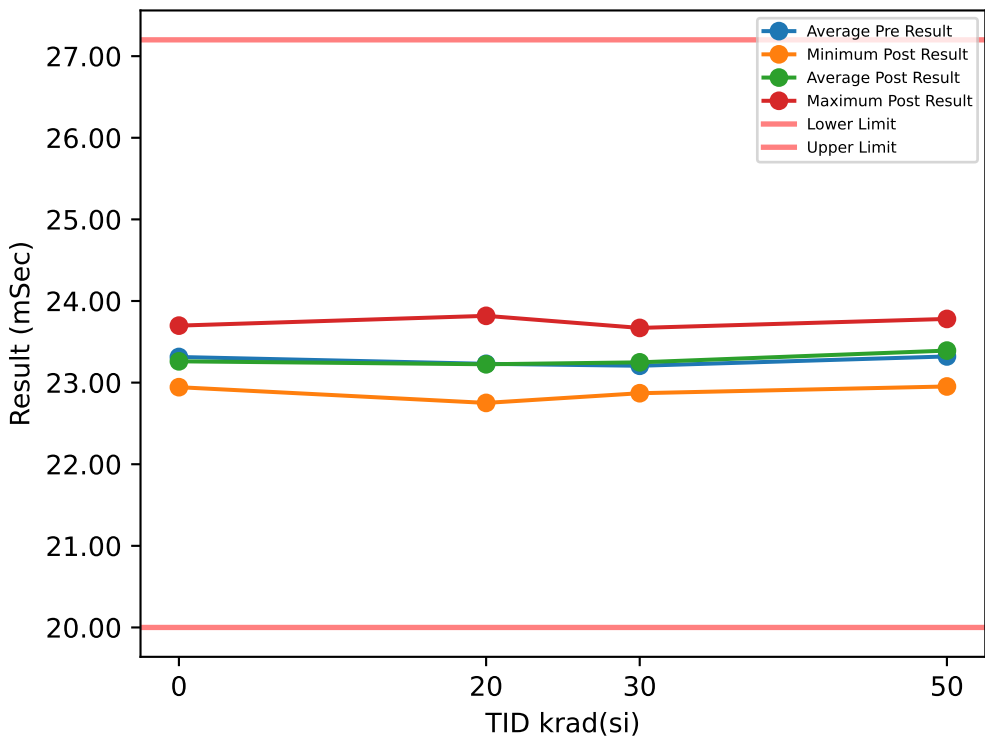
# Device Test: 17.169 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN1/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

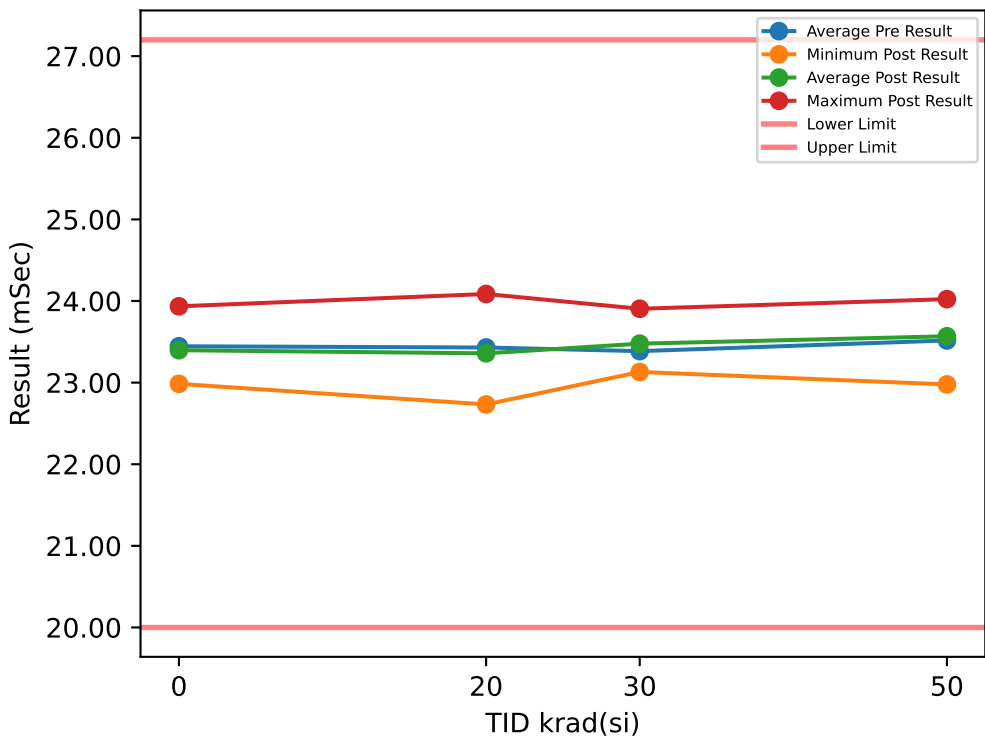| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.942 | 22.887 | -0.0548 |
| 2 | 20 | Bias | 23.614 | 23.498 | -0.1163 |
| 3 | 20 | Bias | 22.593 | 23.048 | 0.4544 |
| 4 | 20 | Bias | 23.822 | 23.818 | -0.0033 |
| 5 | 20 | Bias | 23.523 | 23.531 | 0.0086 |
| 6 | 20 | Unbiased | 22.942 | 22.751 | -0.1905 |
| 7 | 20 | Unbiased | 23.219 | 23.188 | -0.0306 |
| 8 | 20 | Unbiased | 23.149 | 23.014 | -0.1349 |
| 9 | 20 | Unbiased | 23.725 | 23.703 | -0.0216 |
| 10 | 20 | Unbiased | 22.776 | 22.809 | 0.033 |
| 11 | 30 | Bias | 23.07 | 23.197 | 0.1269 |
| 12 | 30 | Bias | 23.152 | 23.206 | 0.0539 |
| 13 | 30 | Bias | 23.299 | 23.207 | -0.0923 |
| 14 | 30 | Bias | 22.768 | 23.335 | 0.5667 |
| 15 | 30 | Bias | 23.298 | 22.87 | -0.4275 |
| 16 | 30 | Unbiased | 23.446 | 23.289 | -0.157 |
| 17 | 30 | Unbiased | 23.523 | 23.447 | -0.0764 |
| 18 | 30 | Unbiased | 23.14 | 23.67 | 0.5303 |
| 19 | 30 | Unbiased | 23.165 | 23.159 | -0.0061 |
| 20 | 30 | Unbiased | 23.203 | 23.105 | -0.0975 |
| 21 | 50 | Bias | 22.86 | 23.241 | 0.3811 |
| 22 | 50 | Bias | 22.925 | 22.953 | 0.0273 |
| 23 | 50 | Bias | 23.767 | 23.044 | -0.7226 |
| 24 | 50 | Bias | 23.033 | 23.729 | 0.6965 |
| 25 | 50 | Bias | 23.412 | 23.516 | 0.104 |
| 26 | 50 | Unbiased | 23.59 | 23.725 | 0.1357 |
| 27 | 50 | Unbiased | 23.154 | 23.007 | -0.147 |
| 28 | 50 | Unbiased | 23.529 | 23.47 | -0.0592 |
| 29 | 50 | Unbiased | 23.703 | 23.78 | 0.0772 |
| 30 | 50 | Unbiased | 23.234 | 23.457 | 0.2233 |
| 31 | 0 | Correlation | 23.204 | 23.18 | -0.0235 |
| 32 | 0 | Correlation | 22.947 | 22.944 | -0.0033 |
| 33 | 0 | Correlation | 23.709 | 23.698 | -0.0103 |
| 34 | 0 | Correlation | 23.397 | 23.221 | -0.1757 |

## Test Statistics (mSec)
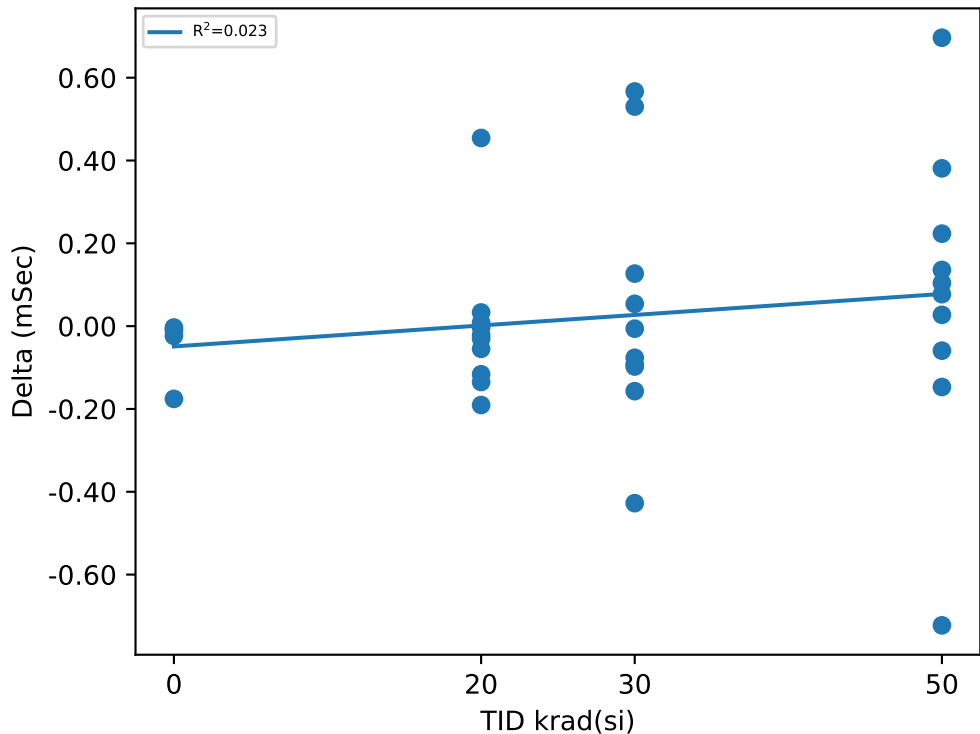
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.947 | 23.314 | 23.709 | 0.32103 | 22.944 | 23.261 | 23.698 | 0.31615 | -0.1757 | -0.0532 | -0.0033 | 0.082095 |
| 20 | 22.593 | 23.23 | 23.822 | 0.42322 | 22.751 | 23.225 | 23.818 | 0.38555 | -0.1905 | -0.0056 | 0.4544 | 0.17631 |
| 30 | 22.768 | 23.206 | 23.523 | 0.20922 | 22.87 | 23.248 | 23.67 | 0.21191 | -0.4275 | 0.0421 | 0.5667 | 0.30459 |
| 50 | 22.86 | 23.321 | 23.767 | 0.32588 | 22.953 | 23.392 | 23.78 | 0.31375 | -0.7226 | 0.07163 | 0.6965 | 0.36699 |
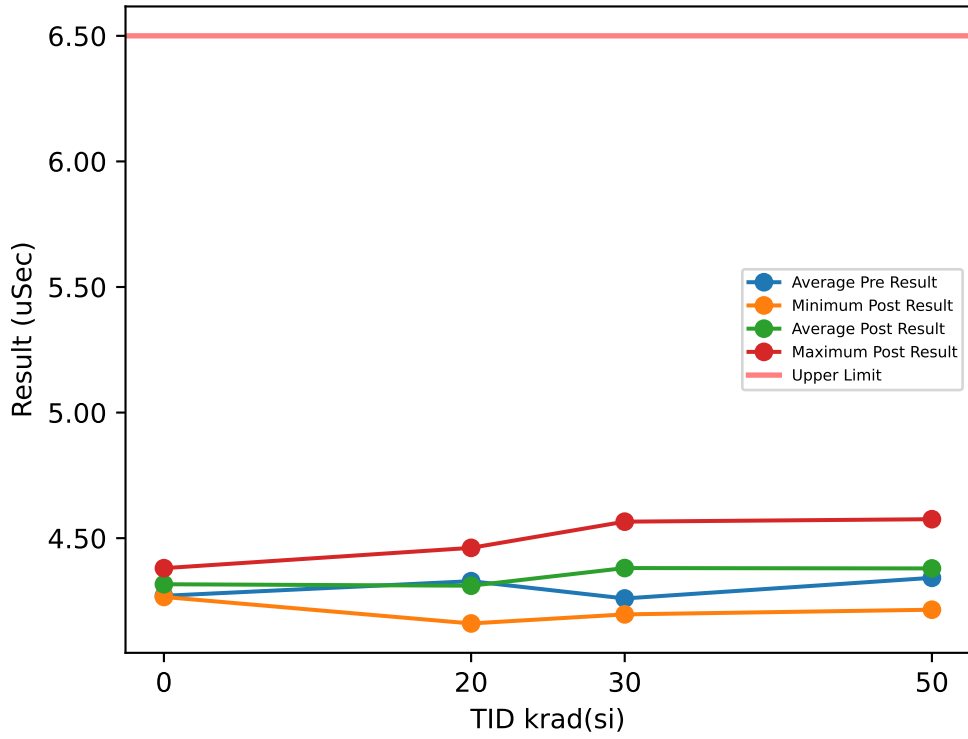
# Device Test: 17.17  TPD_SEQ_DONE(_DELAY|STEP_UP/SEQ_DONE/1.6/14/0/0/0/@TPD_SEQ_DONE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 4.5337 | 4.4258 | -0.1079 |
| 2 | 20 | Bias | 4.6167 | 4.4043 | -0.2124 |
| 3 | 20 | Bias | 4.2064 | 4.4614 | 0.255 |
| 4 | 20 | Bias | 4.4727 | 4.3423 | -0.1304 |
| 5 | 20 | Bias | 4.3726 | 4.1765 | -0.1961 |
| 6 | 20 | Unbiased | 4.1952 | 4.197 | 0.0018 |
| 7 | 20 | Unbiased | 4.3159 | 4.1604 | -0.1555 |
| 8 | 20 | Unbiased | 4.0999 | 4.3516 | 0.2517 |
| 9 | 20 | Unbiased | 4.1974 | 4.3107 | 0.1133 |
| 10 | 20 | Unbiased | 4.2765 | 4.2769 | 0.0004 |
| 11 | 30 | Bias | 4.4899 | 4.4628 | -0.0271 |
| 12 | 30 | Bias | 4.3324 | 4.5657 | 0.2333 |
| 13 | 30 | Bias | 4.3404 | 4.3971 | 0.0567 |
| 14 | 30 | Bias | 3.9814 | 4.4766 | 0.4952 |
| 15 | 30 | Bias | 4.1553 | 4.4059 | 0.2506 |
| 16 | 30 | Unbiased | 4.3407 | 4.3727 | 0.032 |
| 17 | 30 | Unbiased | 4.3103 | 4.4107 | 0.1004 |
| 18 | 30 | Unbiased | 4.0615 | 4.1965 | 0.135 |
| 19 | 30 | Unbiased | 4.2741 | 4.2754 | 0.0013 |
| 20 | 30 | Unbiased | 4.3133 | 4.2463 | -0.067 |
| 21 | 50 | Bias | 4.3335 | 4.3989 | 0.0654 |
| 22 | 50 | Bias | 4.3891 | 4.3934 | 0.0043 |
| 23 | 50 | Bias | 4.5948 | 4.4995 | -0.0953 |
| 24 | 50 | Bias | 4.2435 | 4.2909 | 0.0474 |
| 25 | 50 | Bias | 4.277 | 4.2151 | -0.0619 |
| 26 | 50 | Unbiased | 4.3156 | 4.3359 | 0.0203 |
| 27 | 50 | Unbiased | 4.3975 | 4.5755 | 0.178 |
| 28 | 50 | Unbiased | 4.2508 | 4.4625 | 0.2117 |
| 29 | 50 | Unbiased | 4.3578 | 4.4078 | 0.05 |
| 30 | 50 | Unbiased | 4.2615 | 4.2152 | -0.0463 |
| 31 | 0 | Correlation | 4.1768 | 4.2659 | 0.0891 |
| 32 | 0 | Correlation | 4.236 | 4.3805 | 0.1445 |
| 33 | 0 | Correlation | 4.5273 | 4.2952 | -0.2321 |
| 34 | 0 | Correlation | 4.1417 | 4.3244 | 0.1827 |

## Test Statistics (uSec)
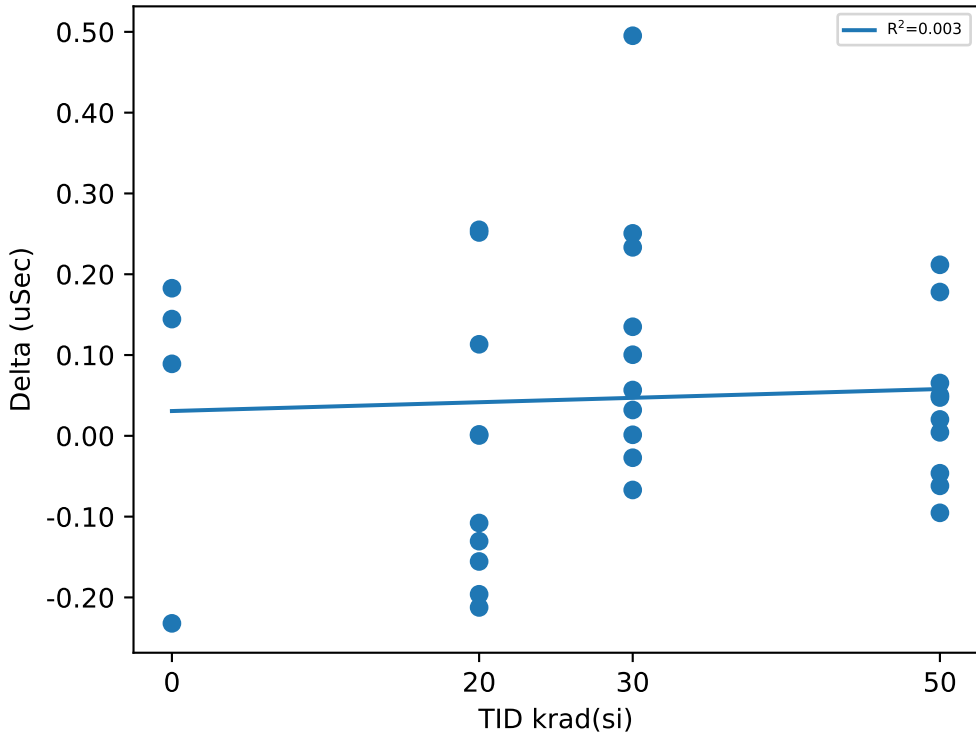
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 4.1417 | 4.2705 | 4.5273 | 0.1756 | 4.2659 | 4.3165 | 4.3805 | 0.048896 | -0.2321 | 0.04605 | 0.1827 | 0.18937 |
| 20 | 4.0999 | 4.3287 | 4.6167 | 0.16763 | 4.1604 | 4.3107 | 4.4614 | 0.10649 | -0.2124 | -0.01801 | 0.255 | 0.1746 |
| 30 | 3.9814 | 4.2599 | 4.4899 | 0.15078 | 4.1965 | 4.381 | 4.5657 | 0.11309 | -0.067 | 0.12104 | 0.4952 | 0.1679 |
| 50 | 4.2435 | 4.3421 | 4.5948 | 0.10485 | 4.2151 | 4.3795 | 4.5755 | 0.11778 | -0.0953 | 0.03736 | 0.2117 | 0.09835 |
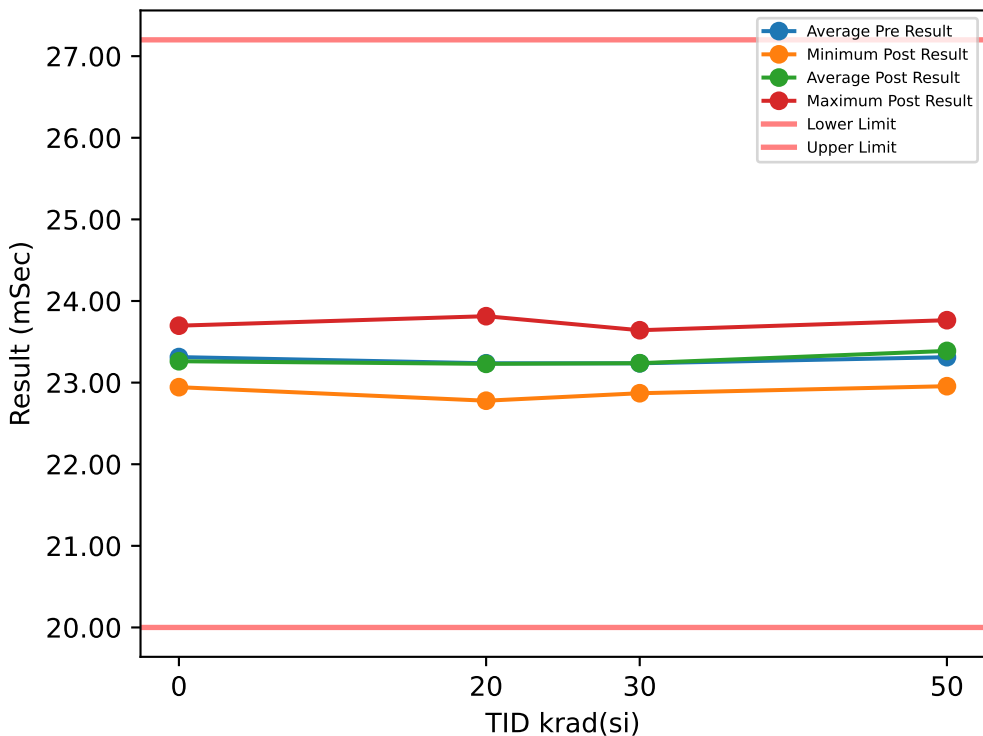
# Device Test: 17.170 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN2/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 22.944 | 22.887 | -0.0566 |
| 2 | 20 | Bias | 23.614 | 23.517 | -0.0965 |
| 3 | 20 | Bias | 22.626 | 23.037 | 0.4107 |
| 4 | 20 | Bias | 23.823 | 23.814 | -0.0096 |
| 5 | 20 | Bias | 23.524 | 23.523 | -0.0016 |
| 6 | 20 | Unbiased | 22.95 | 22.778 | -0.1721 |
| 7 | 20 | Unbiased | 23.241 | 23.195 | -0.046 |
| 8 | 20 | Unbiased | 23.131 | 23.021 | -0.1097 |
| 9 | 20 | Unbiased | 23.739 | 23.718 | -0.0213 |
| 10 | 20 | Unbiased | 22.776 | 22.809 | 0.0328 |
| 11 | 30 | Bias | 23.07 | 23.161 | 0.091 |
| 12 | 30 | Bias | 23.138 | 23.232 | 0.0934 |
| 13 | 30 | Bias | 23.304 | 23.184 | -0.1207 |
| 14 | 30 | Bias | 22.781 | 23.311 | 0.5302 |
| 15 | 30 | Bias | 23.301 | 22.87 | -0.4311 |
| 16 | 30 | Unbiased | 23.423 | 23.286 | -0.1371 |
| 17 | 30 | Unbiased | 23.835 | 23.454 | -0.3814 |
| 18 | 30 | Unbiased | 23.134 | 23.642 | 0.5084 |
| 19 | 30 | Unbiased | 23.148 | 23.156 | 0.0082 |
| 20 | 30 | Unbiased | 23.23 | 23.083 | -0.1474 |
| 21 | 50 | Bias | 22.862 | 23.241 | 0.3786 |
| 22 | 50 | Bias | 22.914 | 22.956 | 0.0423 |
| 23 | 50 | Bias | 23.766 | 23.028 | -0.7375 |
| 24 | 50 | Bias | 23.017 | 23.752 | 0.7348 |
| 25 | 50 | Bias | 23.394 | 23.514 | 0.1198 |
| 26 | 50 | Unbiased | 23.59 | 23.718 | 0.128 |
| 27 | 50 | Unbiased | 23.135 | 22.988 | -0.1471 |
| 28 | 50 | Unbiased | 23.497 | 23.457 | -0.0396 |
| 29 | 50 | Unbiased | 23.703 | 23.765 | 0.0622 |
| 30 | 50 | Unbiased | 23.236 | 23.465 | 0.2288 |
| 31 | 0 | Correlation | 23.2 | 23.18 | -0.0198 |
| 32 | 0 | Correlation | 22.932 | 22.944 | 0.0121 |
| 33 | 0 | Correlation | 23.696 | 23.698 | 0.0017 |
| 34 | 0 | Correlation | 23.424 | 23.226 | -0.1982 |

## Test Statistics (mSec)
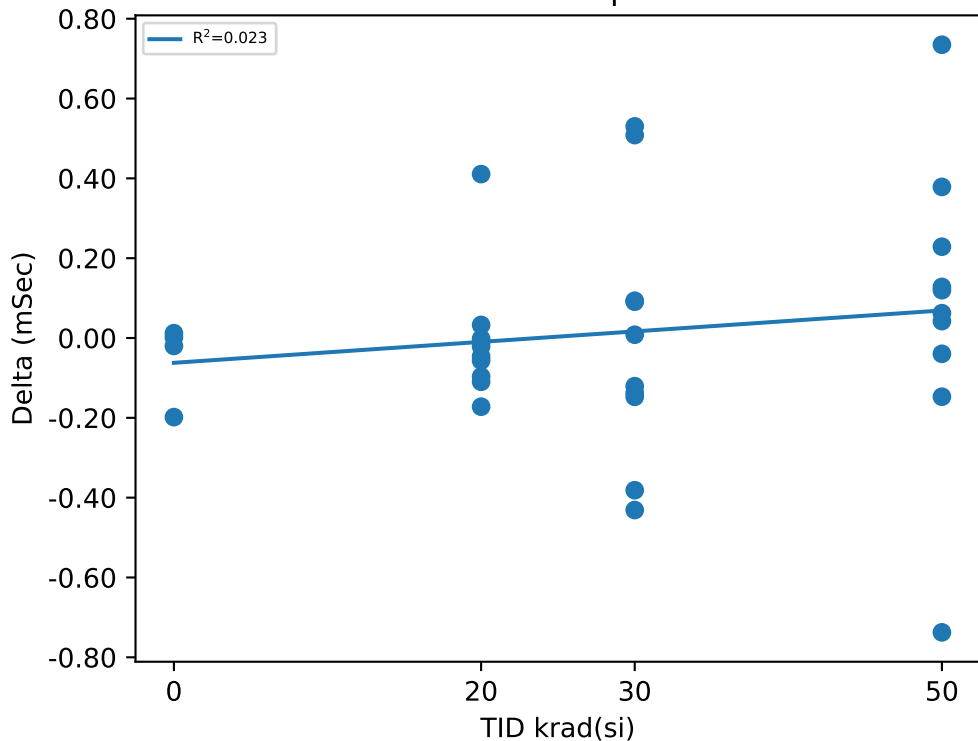
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 22.932 | 23.313 | 23.696 | 0.32494 | 22.944 | 23.262 | 23.698 | 0.31559 | -0.1982 | -0.05105 | 0.0121 | 0.098995 |
| 20 | 22.626 | 23.237 | 23.823 | 0.41977 | 22.778 | 23.23 | 23.814 | 0.38421 | -0.1721 | -0.00699 | 0.4107 | 0.1585 |
| 30 | 22.781 | 23.236 | 23.835 | 0.27191 | 22.87 | 23.238 | 23.642 | 0.20883 | -0.4311 | 0.00135 | 0.5302 | 0.3237 |
| 50 | 22.862 | 23.311 | 23.766 | 0.32681 | 22.956 | 23.388 | 23.765 | 0.31757 | -0.7375 | 0.07703 | 0.7348 | 0.37709 |
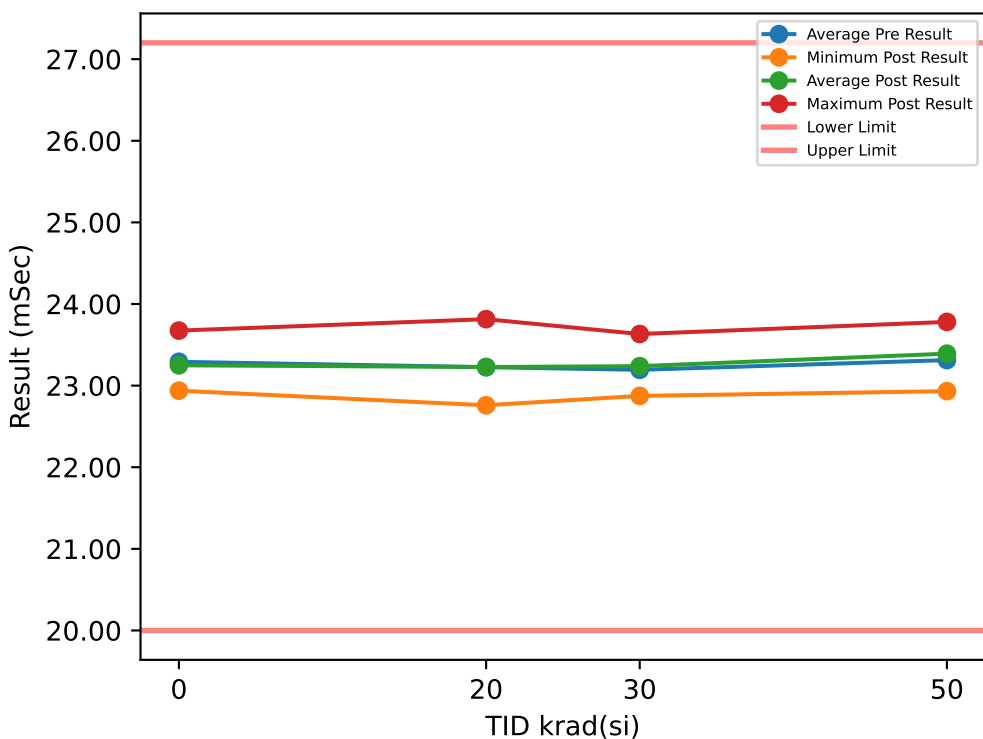
# Device Test: 17.171 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN3/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.929 | 22.882 | -0.0468 |
| 2 | 20 | Bias | 23.555 | 23.53 | -0.025 |
| 3 | 20 | Bias | 22.618 | 23.051 | 0.4323 |
| 4 | 20 | Bias | 23.804 | 23.814 | 0.0106 |
| 5 | 20 | Bias | 23.514 | 23.528 | 0.0137 |
| 6 | 20 | Unbiased | 22.946 | 22.759 | -0.1871 |
| 7 | 20 | Unbiased | 23.24 | 23.205 | -0.0342 |
| 8 | 20 | Unbiased | 23.146 | 22.998 | -0.1484 |
| 9 | 20 | Unbiased | 23.736 | 23.713 | -0.0226 |
| 10 | 20 | Unbiased | 22.772 | 22.8 | 0.0282 |
| 11 | 30 | Bias | 23.065 | 23.169 | 0.1032 |
| 12 | 30 | Bias | 23.115 | 23.229 | 0.1137 |
| 13 | 30 | Bias | 23.284 | 23.2 | -0.0837 |
| 14 | 30 | Bias | 22.769 | 23.329 | 0.56 |
| 15 | 30 | Bias | 23.297 | 22.874 | -0.4234 |
| 16 | 30 | Unbiased | 23.442 | 23.288 | -0.1532 |
| 17 | 30 | Unbiased | 23.501 | 23.437 | -0.0642 |
| 18 | 30 | Unbiased | 23.133 | 23.632 | 0.4997 |
| 19 | 30 | Unbiased | 23.127 | 23.149 | 0.0215 |
| 20 | 30 | Unbiased | 23.201 | 23.076 | -0.1255 |
| 21 | 50 | Bias | 22.855 | 23.234 | 0.3795 |
| 22 | 50 | Bias | 22.901 | 22.932 | 0.0311 |
| 23 | 50 | Bias | 23.738 | 23.046 | -0.6914 |
| 24 | 50 | Bias | 23.046 | 23.75 | 0.7045 |
| 25 | 50 | Bias | 23.409 | 23.502 | 0.0931 |
| 26 | 50 | Unbiased | 23.578 | 23.709 | 0.1312 |
| 27 | 50 | Unbiased | 23.125 | 23.011 | -0.1141 |
| 28 | 50 | Unbiased | 23.528 | 23.475 | -0.0536 |
| 29 | 50 | Unbiased | 23.692 | 23.78 | 0.0882 |
| 30 | 50 | Unbiased | 23.255 | 23.476 | 0.2215 |
| 31 | 0 | Correlation | 23.179 | 23.162 | -0.0174 |
| 32 | 0 | Correlation | 22.925 | 22.938 | 0.0134 |
| 33 | 0 | Correlation | 23.676 | 23.674 | -0.0015 |
| 34 | 0 | Correlation | 23.387 | 23.22 | -0.1666 |

## Test Statistics (mSec)
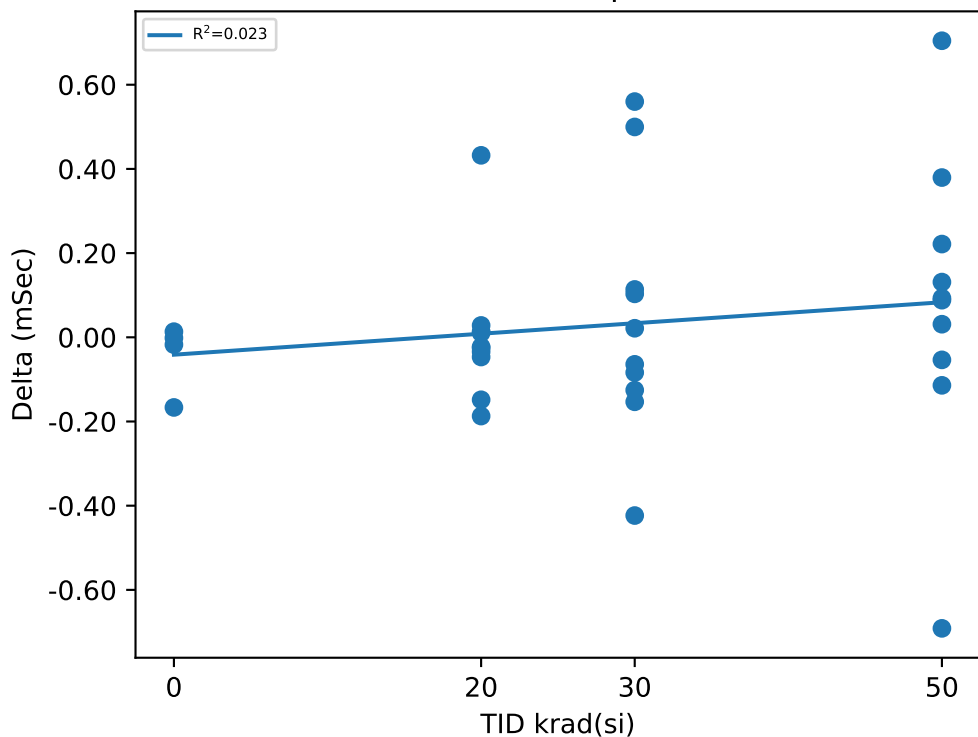
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.925 | 23.292 | 23.676 | 0.31814 | 22.938 | 23.249 | 23.674 | 0.30857 | -0.1666 | -0.043025 | 0.0134 | 0.083338 |
| 20 | 22.618 | 23.226 | 23.804 | 0.41277 | 22.759 | 23.228 | 23.814 | 0.38985 | -0.1871 | 0.00207 | 0.4323 | 0.16649 |
| 30 | 22.769 | 23.193 | 23.501 | 0.20703 | 22.874 | 23.238 | 23.632 | 0.20515 | -0.4234 | 0.04481 | 0.56 | 0.29756 |
| 50 | 22.855 | 23.313 | 23.738 | 0.32315 | 22.932 | 23.392 | 23.78 | 0.31745 | -0.6914 | 0.079 | 0.7045 | 0.35832 |
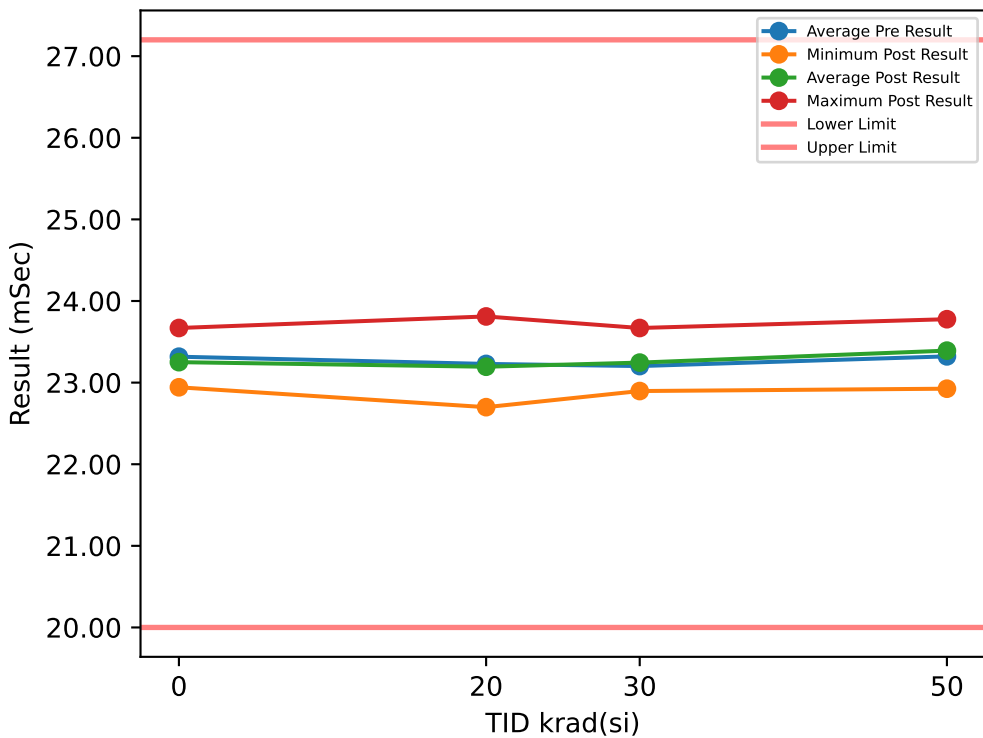
# Device Test: 17.172 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN4/7/14/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 22.923 | 22.885 | -0.0379 |
| 2 | 20 | Bias | 23.59 | 23.522 | -0.0675 |
| 3 | 20 | Bias | 22.588 | 22.699 | 0.1115 |
| 4 | 20 | Bias | 23.814 | 23.811 | -0.0033 |
| 5 | 20 | Bias | 23.522 | 23.531 | 0.0088 |
| 6 | 20 | Unbiased | 22.95 | 22.776 | -0.1735 |
| 7 | 20 | Unbiased | 23.237 | 23.169 | -0.0678 |
| 8 | 20 | Unbiased | 23.155 | 23.028 | -0.1272 |
| 9 | 20 | Unbiased | 23.739 | 23.717 | -0.0221 |
| 10 | 20 | Unbiased | 22.774 | 22.809 | 0.0349 |
| 11 | 30 | Bias | 23.054 | 23.195 | 0.1414 |
| 12 | 30 | Bias | 23.132 | 23.191 | 0.0588 |
| 13 | 30 | Bias | 23.303 | 23.205 | -0.0982 |
| 14 | 30 | Bias | 22.749 | 23.33 | 0.5805 |
| 15 | 30 | Bias | 23.301 | 22.897 | -0.4043 |
| 16 | 30 | Unbiased | 23.437 | 23.266 | -0.171 |
| 17 | 30 | Unbiased | 23.525 | 23.453 | -0.0724 |
| 18 | 30 | Unbiased | 23.139 | 23.669 | 0.5305 |
| 19 | 30 | Unbiased | 23.164 | 23.151 | -0.0133 |
| 20 | 30 | Unbiased | 23.223 | 23.095 | -0.1275 |
| 21 | 50 | Bias | 22.863 | 23.239 | 0.376 |
| 22 | 50 | Bias | 22.928 | 22.925 | -0.0028 |
| 23 | 50 | Bias | 23.762 | 23.049 | -0.7122 |
| 24 | 50 | Bias | 23.049 | 23.753 | 0.7035 |
| 25 | 50 | Bias | 23.395 | 23.513 | 0.1176 |
| 26 | 50 | Unbiased | 23.589 | 23.72 | 0.1314 |
| 27 | 50 | Unbiased | 23.154 | 23.014 | -0.1403 |
| 28 | 50 | Unbiased | 23.528 | 23.459 | -0.0687 |
| 29 | 50 | Unbiased | 23.697 | 23.777 | 0.0802 |
| 30 | 50 | Unbiased | 23.253 | 23.47 | 0.2172 |
| 31 | 0 | Correlation | 23.196 | 23.179 | -0.0163 |
| 32 | 0 | Correlation | 22.948 | 22.943 | -0.0056 |
| 33 | 0 | Correlation | 23.701 | 23.669 | -0.0316 |
| 34 | 0 | Correlation | 23.425 | 23.211 | -0.2141 |

## Test Statistics (mSec)
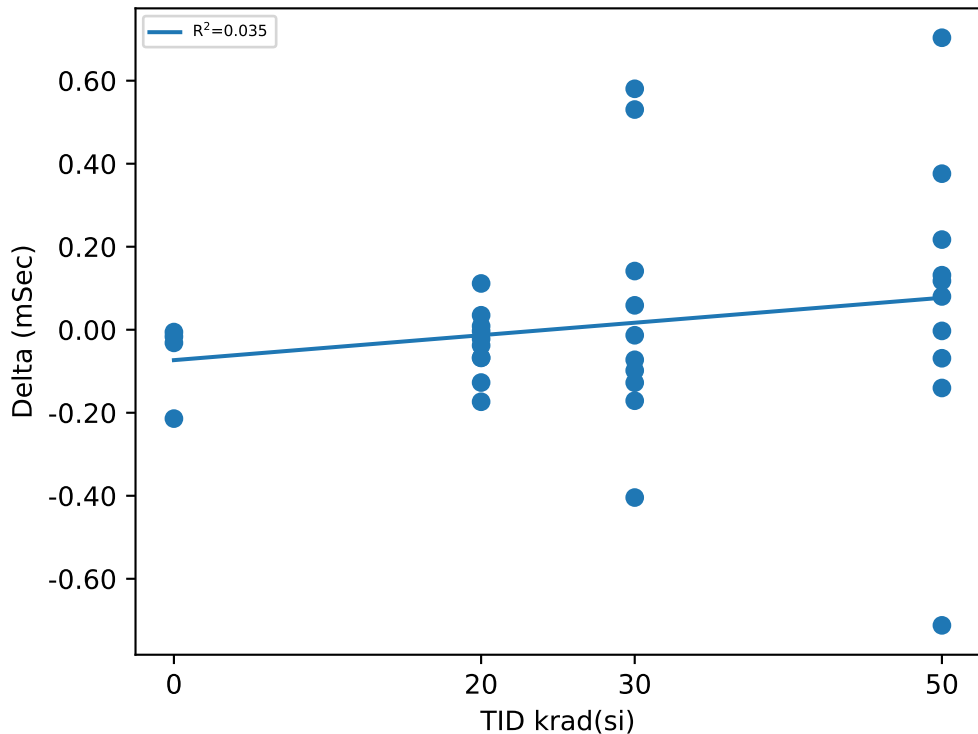
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.948 | 23.318 | 23.701 | 0.32135 | 22.943 | 23.251 | 23.669 | 0.30372 | -0.2141 | -0.0669 | -0.0056 | 0.098712 |
| 20 | 22.588 | 23.229 | 23.814 | 0.42339 | 22.699 | 23.195 | 23.811 | 0.4171 | -0.1735 | -0.03441 | 0.1115 | 0.081143 |
| 30 | 22.749 | 23.203 | 23.525 | 0.21542 | 22.897 | 23.245 | 23.669 | 0.20823 | -0.4043 | 0.04245 | 0.5805 | 0.30693 |
| 50 | 22.863 | 23.322 | 23.762 | 0.32079 | 22.925 | 23.392 | 23.777 | 0.31845 | -0.7122 | 0.07019 | 0.7035 | 0.36566 |

# Device Test: 17.18  TPD_PWRGD(_DELAY|STEP_UP/PWRGD/1.6/14/0/0/0/@TPD_PWRGD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.3843 | 3.273 | -0.1113 |
| 2 | 20 | Bias | 3.2303 | 3.5266 | 0.2963 |
| 3 | 20 | Bias | 3.4523 | 3.3947 | -0.0576 |
| 4 | 20 | Bias | 3.4892 | 3.3371 | -0.1521 |
| 5 | 20 | Bias | 3.0107 | 3.2668 | 0.2561 |
| 6 | 20 | Unbiased | 3.2456 | 3.2626 | 0.017 |
| 7 | 20 | Unbiased | 3.3118 | 3.1476 | -0.1642 |
| 8 | 20 | Unbiased | 3.2784 | 3.359 | 0.0806 |
| 9 | 20 | Unbiased | 3.257 | 3.056 | -0.201 |
| 10 | 20 | Unbiased | 3.2738 | 3.3218 | 0.048 |
| 11 | 30 | Bias | 3.4348 | 3.0378 | -0.397 |
| 12 | 30 | Bias | 3.1502 | 3.0316 | -0.1186 |
| 13 | 30 | Bias | 3.3039 | 3.3069 | 0.003 |
| 14 | 30 | Bias | 3.444 | 3.4384 | -0.0056 |
| 15 | 30 | Bias | 3.1386 | 3.4212 | 0.2826 |
| 16 | 30 | Unbiased | 3.2587 | 3.211 | -0.0477 |
| 17 | 30 | Unbiased | 3.3499 | 3.3595 | 0.0096 |
| 18 | 30 | Unbiased | 3.2132 | 3.5613 | 0.3481 |
| 19 | 30 | Unbiased | 3.4267 | 3.3494 | -0.0773 |
| 20 | 30 | Unbiased | 3.2657 | 3.2895 | 0.0238 |
| 21 | 50 | Bias | 3.3559 | 3.2289 | -0.127 |
| 22 | 50 | Bias | 3.3609 | 3.233 | -0.1279 |
| 23 | 50 | Bias | 3.2042 | 3.2254 | 0.0212 |
| 24 | 50 | Bias | 3.1043 | 3.1263 | 0.022 |
| 25 | 50 | Bias | 3.1017 | 3.1288 | 0.0271 |
| 26 | 50 | Unbiased | 3.2354 | 2.972 | -0.2634 |
| 27 | 50 | Unbiased | 3.0703 | 3.3296 | 0.2593 |
| 28 | 50 | Unbiased | 3.2007 | 3.0917 | -0.109 |
| 29 | 50 | Unbiased | 3.0819 | 3.2581 | 0.1762 |
| 30 | 50 | Unbiased | 3.0038 | 3.3539 | 0.3501 |
| 31 | 0 | Correlation | 3.3869 | 3.4135 | 0.0266 |
| 32 | 0 | Correlation | 3.5343 | 3.4189 | -0.1154 |
| 33 | 0 | Correlation | 3.2353 | 3.2501 | 0.0148 |
| 34 | 0 | Correlation | 3.3519 | 3.0933 | -0.2586 |

## Test Statistics (uSec)
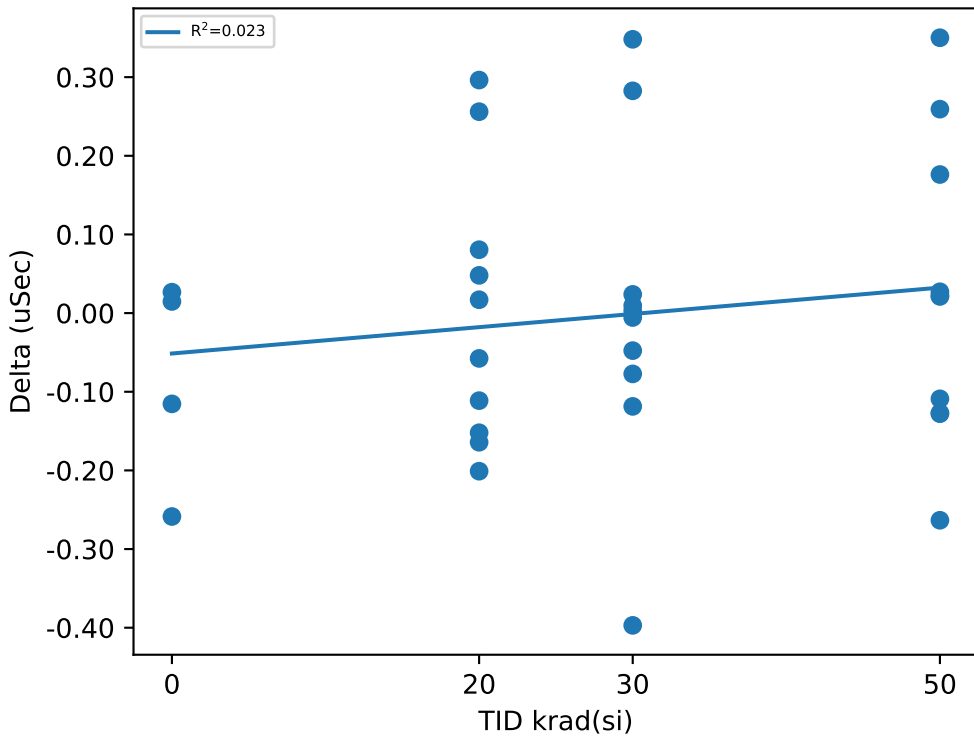
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.2353 | 3.3771 | 3.5343 | 0.12322 | 3.0933 | 3.294 | 3.4189 | 0.15501 | -0.2586 | -0.08315 | 0.0266 | 0.13349 |
| 20 | 3.0107 | 3.2933 | 3.4892 | 0.13346 | 3.056 | 3.2945 | 3.5266 | 0.12967 | -0.201 | 0.00118 | 0.2963 | 0.17277 |
| 30 | 3.1386 | 3.2986 | 3.444 | 0.1137 | 3.0316 | 3.3007 | 3.5613 | 0.16897 | -0.397 | 0.00209 | 0.3481 | 0.20592 |
| 50 | 3.0038 | 3.1719 | 3.3609 | 0.12095 | 2.972 | 3.1948 | 3.3539 | 0.11565 | -0.2634 | 0.02286 | 0.3501 | 0.19179 |

# Device Test: 17.19  TPD_EN(_DELAY|STEP_DOWN/EN1/1.6/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

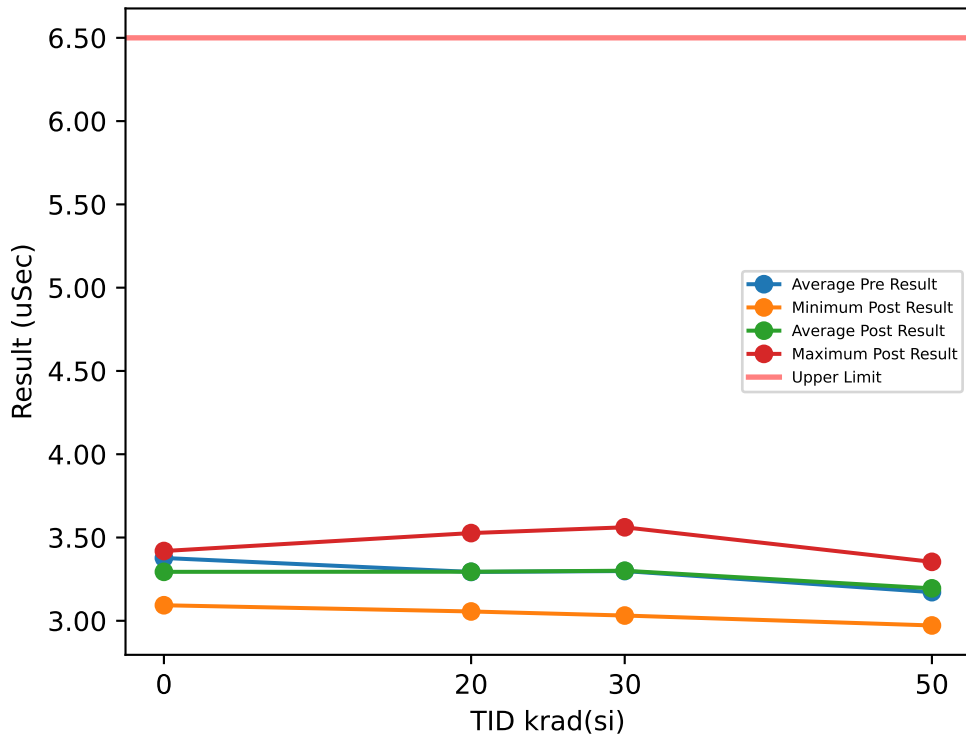| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 3.1782 | 3.0858 | -0.0924 |
| 2 | 20 | Bias | 3.2104 | 3.1387 | -0.0717 |
| 3 | 20 | Bias | 3.3285 | 3.3685 | 0.04 |
| 4 | 20 | Bias | 3.3597 | 3.4293 | 0.0696 |
| 5 | 20 | Bias | 3.1027 | 3.0545 | -0.0482 |
| 6 | 20 | Unbiased | 3.0389 | 3.1904 | 0.1515 |
| 7 | 20 | Unbiased | 3.1917 | 3.215 | 0.0233 |
| 8 | 20 | Unbiased | 3.2856 | 3.3047 | 0.0191 |
| 9 | 20 | Unbiased | 3.1088 | 3.3372 | 0.2284 |
| 10 | 20 | Unbiased | 3.0857 | 3.0329 | -0.0528 |
| 11 | 30 | Bias | 3.3774 | 3.165 | -0.2124 |
| 12 | 30 | Bias | 3.4605 | 3.3663 | -0.0942 |
| 13 | 30 | Bias | 3.2215 | 3.0505 | -0.171 |
| 14 | 30 | Bias | 2.9781 | 3.3456 | 0.3675 |
| 15 | 30 | Bias | 3.3084 | 3.381 | 0.0726 |
| 16 | 30 | Unbiased | 3.1611 | 3.2132 | 0.0521 |
| 17 | 30 | Unbiased | 2.9709 | 3.3585 | 0.3876 |
| 18 | 30 | Unbiased | 3.2482 | 3.3427 | 0.0945 |
| 19 | 30 | Unbiased | 2.9796 | 3.473 | 0.4934 |
| 20 | 30 | Unbiased | 3.1217 | 3.2642 | 0.1425 |
| 21 | 50 | Bias | 3.3365 | 3.1325 | -0.204 |
| 22 | 50 | Bias | 3.0543 | 3.1946 | 0.1403 |
| 23 | 50 | Bias | 3.1434 | 3.2295 | 0.0861 |
| 24 | 50 | Bias | 2.9379 | 3.1215 | 0.1836 |
| 25 | 50 | Bias | 3.3239 | 3.2517 | -0.0722 |
| 26 | 50 | Unbiased | 2.9633 | 3.1619 | 0.1986 |
| 27 | 50 | Unbiased | 3.1886 | 3.2123 | 0.0237 |
| 28 | 50 | Unbiased | 3.2728 | 3.1333 | -0.1395 |
| 29 | 50 | Unbiased | 3.2467 | 3.1674 | -0.0793 |
| 30 | 50 | Unbiased | 3.1626 | 3.2044 | 0.0418 |
| 31 | 0 | Correlation | 3.5071 | 3.4308 | -0.0763 |
| 32 | 0 | Correlation | 3.2556 | 3.0735 | -0.1821 |
| 33 | 0 | Correlation | 3.0257 | 3.2576 | 0.2319 |
| 34 | 0 | Correlation | 3.2928 | 3.2307 | -0.0621 |

## Test Statistics (uSec)
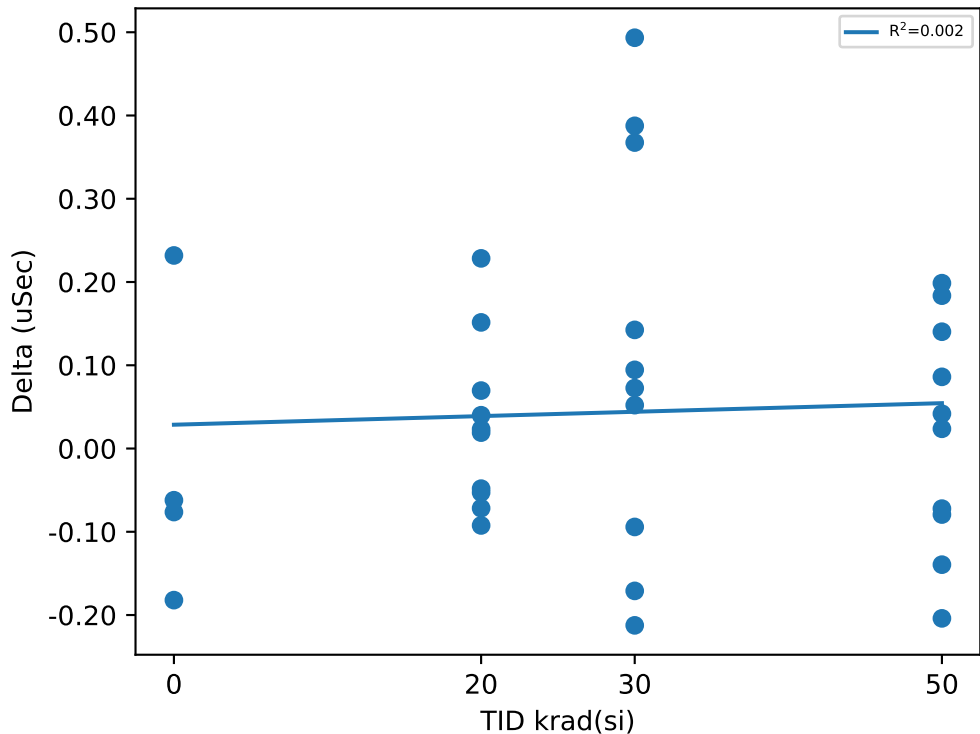
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.0257 | 3.2703 | 3.5071 | 0.19717 | 3.0735 | 3.2481 | 3.4308 | 0.14635 | -0.1821 | -0.02215 | 0.2319 | 0.17763 |
| 20 | 3.0389 | 3.189 | 3.3597 | 0.10832 | 3.0329 | 3.2157 | 3.4293 | 0.13924 | -0.0924 | 0.02668 | 0.2284 | 0.10228 |
| 30 | 2.9709 | 3.1827 | 3.4605 | 0.17283 | 3.0505 | 3.296 | 3.473 | 0.12353 | -0.2124 | 0.11326 | 0.4934 | 0.24058 |
| 50 | 2.9379 | 3.163 | 3.3365 | 0.14081 | 3.1215 | 3.1809 | 3.2517 | 0.044448 | -0.204 | 0.01791 | 0.1986 | 0.13821 |
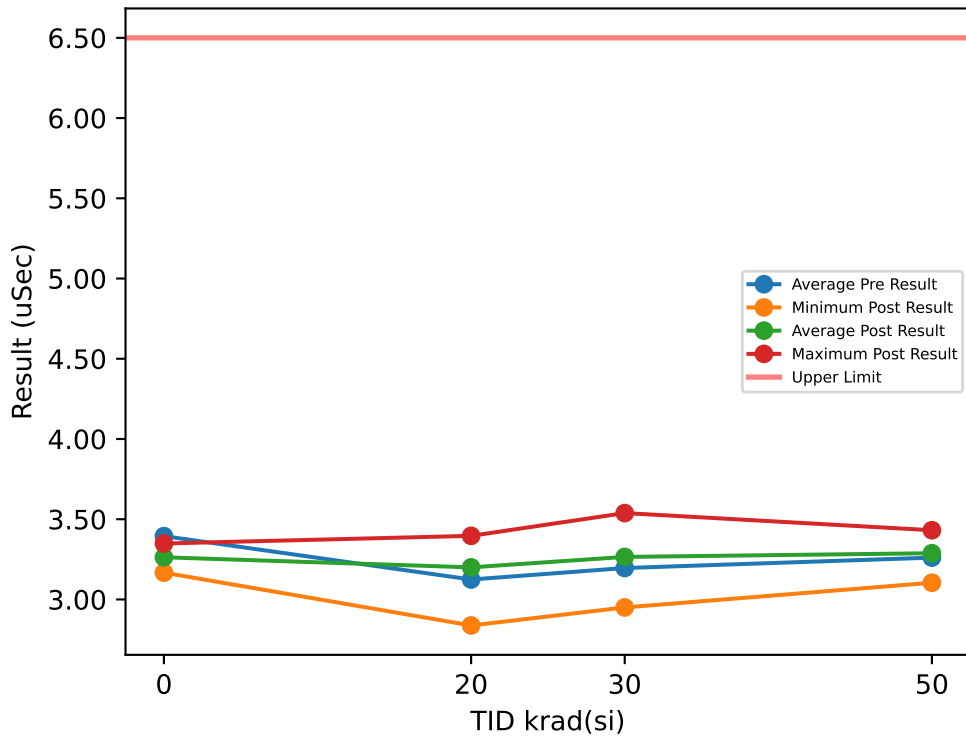
# Device Test: 17.2   TPD_EN(_DELAY|STEP_UP/EN2/1.6/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

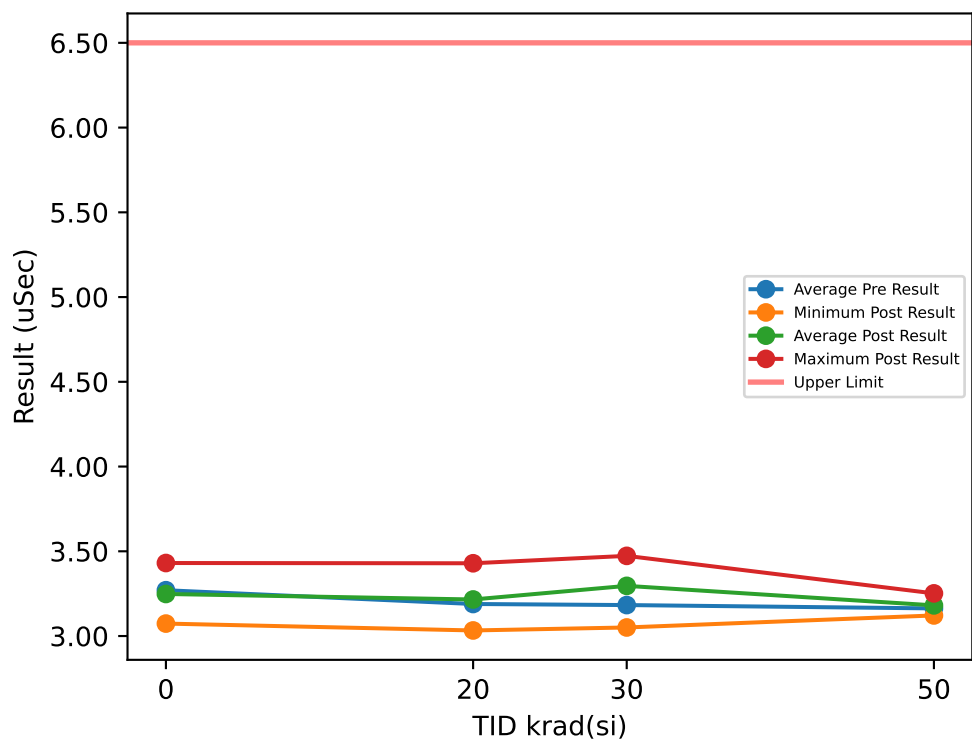| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 3.016 | 3.3964 | 0.3804 |
| 2 | 20 | Bias | 3.22 | 3.3661 | 0.1461 |
| 3 | 20 | Bias | 3.2475 | 3.2413 | -0.0062 |
| 4 | 20 | Bias | 3.347 | 3.3138 | -0.0332 |
| 5 | 20 | Bias | 3.0916 | 3.2569 | 0.1653 |
| 6 | 20 | Unbiased | 3.3419 | 3.127 | -0.2149 |
| 7 | 20 | Unbiased | 2.9114 | 3.1908 | 0.2794 |
| 8 | 20 | Unbiased | 2.9335 | 3.0974 | 0.1639 |
| 9 | 20 | Unbiased | 3.0046 | 3.1724 | 0.1678 |
| 10 | 20 | Unbiased | 3.1291 | 2.8379 | -0.2912 |
| 11 | 30 | Bias | 3.3065 | 3.396 | 0.0895 |
| 12 | 30 | Bias | 3.1286 | 3.1425 | 0.0139 |
| 13 | 30 | Bias | 3.0425 | 3.0742 | 0.0317 |
| 14 | 30 | Bias | 3.2781 | 3.5383 | 0.2602 |
| 15 | 30 | Bias | 3.0532 | 3.1332 | 0.08 |
| 16 | 30 | Unbiased | 3.3701 | 2.9502 | -0.4199 |
| 17 | 30 | Unbiased | 3.2853 | 3.526 | 0.2407 |
| 18 | 30 | Unbiased | 3.0737 | 3.2875 | 0.2138 |
| 19 | 30 | Unbiased | 3.1627 | 3.3342 | 0.1715 |
| 20 | 30 | Unbiased | 3.257 | 3.2688 | 0.0118 |
| 21 | 50 | Bias | 3.351 | 3.4314 | 0.0804 |
| 22 | 50 | Bias | 3.0681 | 3.2602 | 0.1921 |
| 23 | 50 | Bias | 3.1711 | 3.3574 | 0.1863 |
| 24 | 50 | Bias | 3.3069 | 3.3748 | 0.0679 |
| 25 | 50 | Bias | 3.3282 | 3.1991 | -0.1291 |
| 26 | 50 | Unbiased | 3.4785 | 3.1042 | -0.3743 |
| 27 | 50 | Unbiased | 3.0742 | 3.2844 | 0.2102 |
| 28 | 50 | Unbiased | 3.3614 | 3.3417 | -0.0197 |
| 29 | 50 | Unbiased | 3.3053 | 3.2998 | -0.0055 |
| 30 | 50 | Unbiased | 3.1625 | 3.2276 | 0.0651 |
| 31 | 0 | Correlation | 3.5162 | 3.3486 | -0.1676 |
| 32 | 0 | Correlation | 3.2883 | 3.167 | -0.1213 |
| 33 | 0 | Correlation | 3.1849 | 3.2386 | 0.0537 |
| 34 | 0 | Correlation | 3.5892 | 3.2969 | -0.2923 |

## Test Statistics (uSec)
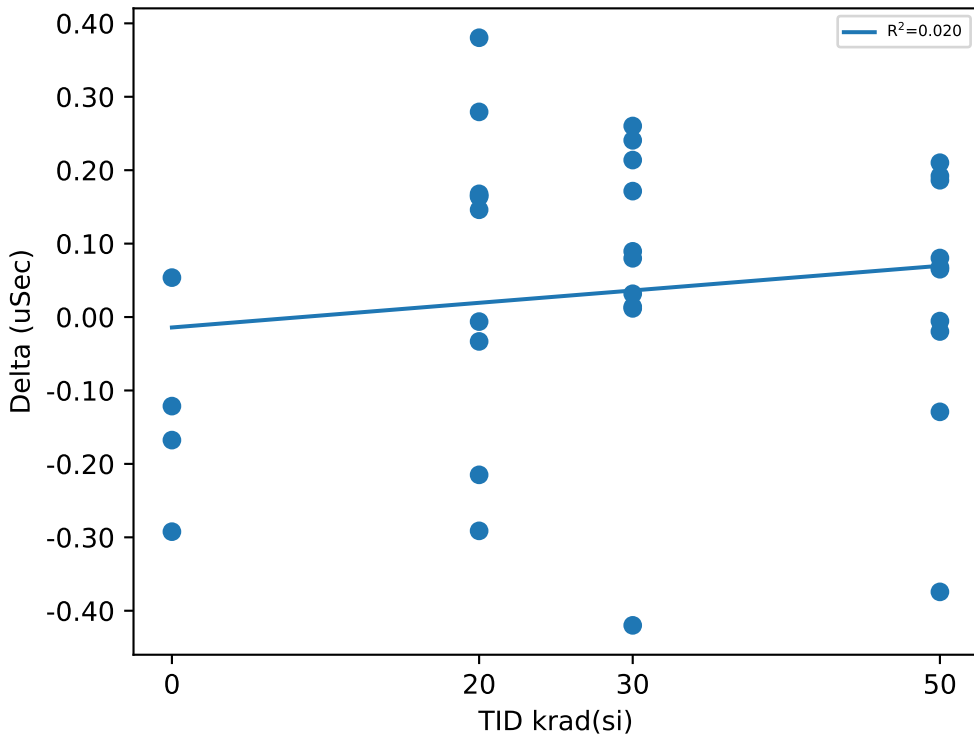
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.1849 | 3.3946 | 3.5892 | 0.18967 | 3.167 | 3.2628 | 3.3486 | 0.078076 | -0.2923 | -0.13188 | 0.0537 | 0.14325 |
| 20 | 2.9114 | 3.1243 | 3.347 | 0.15992 | 2.8379 | 3.2 | 3.3964 | 0.16051 | -0.2912 | 0.07574 | 0.3804 | 0.21114 |
| 30 | 3.0425 | 3.1958 | 3.3701 | 0.1181 | 2.9502 | 3.2651 | 3.5383 | 0.1924 | -0.4199 | 0.06932 | 0.2602 | 0.19572 |
| 50 | 3.0681 | 3.2607 | 3.4785 | 0.13497 | 3.1042 | 3.2881 | 3.4314 | 0.095485 | -0.3743 | 0.02734 | 0.2102 | 0.17664 |

# Device Test: 17.20  TPD_EN(_DELAY|STEP_DOWN/EN2/1.6/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 3.4088 | 3.3543 | -0.0545 |
| 2 | 20 | Bias | 3.4125 | 3.5463 | 0.1338 |
| 3 | 20 | Bias | 3.4779 | 3.2796 | -0.1983 |
| 4 | 20 | Bias | 3.1864 | 3.6252 | 0.4388 |
| 5 | 20 | Bias | 3.0567 | 3.4027 | 0.346 |
| 6 | 20 | Unbiased | 3.0035 | 3.1563 | 0.1528 |
| 7 | 20 | Unbiased | 3.4247 | 3.523 | 0.0983 |
| 8 | 20 | Unbiased | 3.24 | 3.4516 | 0.2116 |
| 9 | 20 | Unbiased | 3.3692 | 3.4315 | 0.0623 |
| 10 | 20 | Unbiased | 3.3554 | 3.2789 | -0.0765 |
| 11 | 30 | Bias | 3.2757 | 3.1583 | -0.1174 |
| 12 | 30 | Bias | 3.5666 | 3.5426 | -0.024 |
| 13 | 30 | Bias | 3.3844 | 3.5044 | 0.12 |
| 14 | 30 | Bias | 3.5676 | 3.2556 | -0.312 |
| 15 | 30 | Bias | 3.3392 | 3.5133 | 0.1741 |
| 16 | 30 | Unbiased | 3.3806 | 3.3038 | -0.0768 |
| 17 | 30 | Unbiased | 3.2235 | 3.4244 | 0.2009 |
| 18 | 30 | Unbiased | 3.4506 | 3.3055 | -0.1451 |
| 19 | 30 | Unbiased | 3.4497 | 3.2355 | -0.2142 |
| 20 | 30 | Unbiased | 3.3558 | 3.0485 | -0.3073 |
| 21 | 50 | Bias | 3.2854 | 3.4623 | 0.1769 |
| 22 | 50 | Bias | 3.4374 | 3.4073 | -0.0301 |
| 23 | 50 | Bias | 3.3858 | 3.352 | -0.0338 |
| 24 | 50 | Bias | 3.3528 | 3.4437 | 0.0909 |
| 25 | 50 | Bias | 3.2608 | 3.3594 | 0.0986 |
| 26 | 50 | Unbiased | 3.4218 | 3.2359 | -0.1859 |
| 27 | 50 | Unbiased | 3.1948 | 3.257 | 0.0622 |
| 28 | 50 | Unbiased | 3.2244 | 3.4853 | 0.2609 |
| 29 | 50 | Unbiased | 3.3761 | 3.1882 | -0.1879 |
| 30 | 50 | Unbiased | 3.3742 | 3.2335 | -0.1407 |
| 31 | 0 | Correlation | 3.3345 | 3.2028 | -0.1317 |
| 32 | 0 | Correlation | 3.6077 | 3.3874 | -0.2203 |
| 33 | 0 | Correlation | 3.3283 | 3.275 | -0.0533 |
| 34 | 0 | Correlation | 3.3415 | 3.3802 | 0.0387 |

## Test Statistics (uSec)
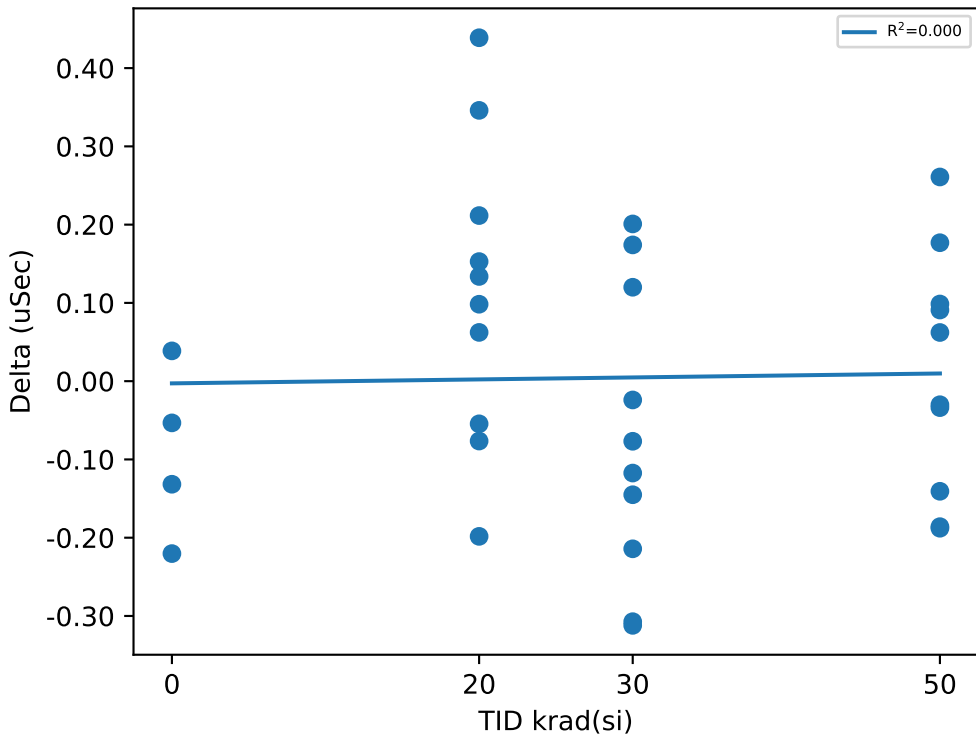
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.3283 | 3.403 | 3.6077 | 0.13657 | 3.2028 | 3.3114 | 3.3874 | 0.088747 | -0.2203 | -0.09165 | 0.0387 | 0.11048 |
| 20 | 3.0035 | 3.2935 | 3.4779 | 0.16423 | 3.1563 | 3.4049 | 3.6252 | 0.14193 | -0.1983 | 0.11143 | 0.4388 | 0.19316 |
| 30 | 3.2235 | 3.3994 | 3.5676 | 0.11242 | 3.0485 | 3.3292 | 3.5426 | 0.16418 | -0.312 | -0.07018 | 0.2009 | 0.18702 |
| 50 | 3.1948 | 3.3313 | 3.4374 | 0.084238 | 3.1882 | 3.3425 | 3.4853 | 0.10746 | -0.1879 | 0.01111 | 0.2609 | 0.15337 |
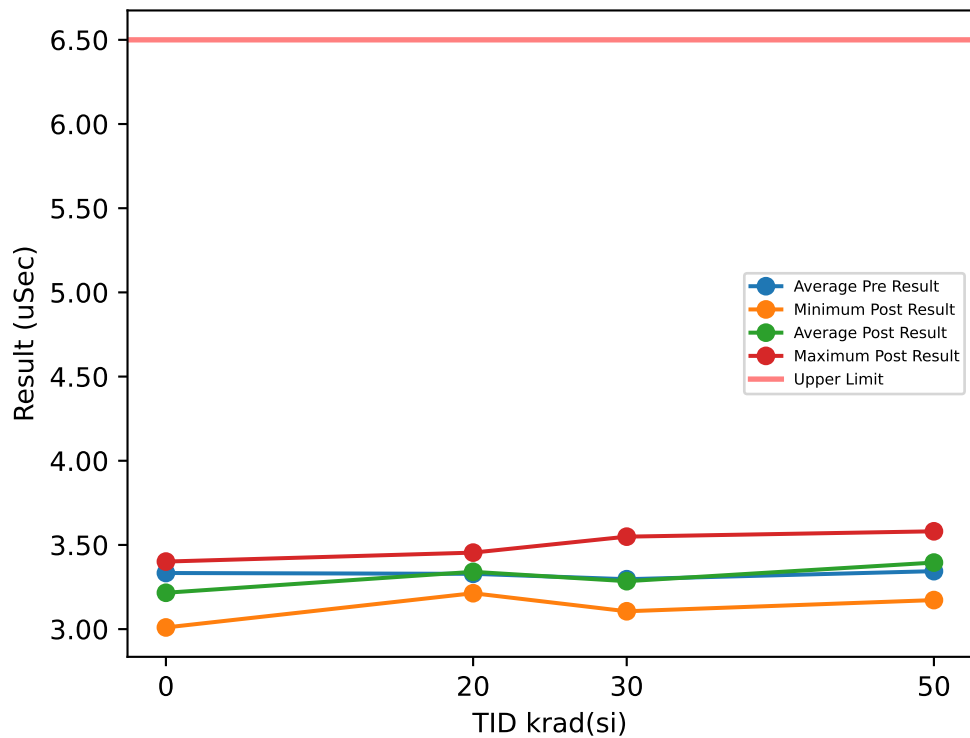
# Device Test: 17.21  TPD_EN(_DELAY|STEP_DOWN/EN3/1.6/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

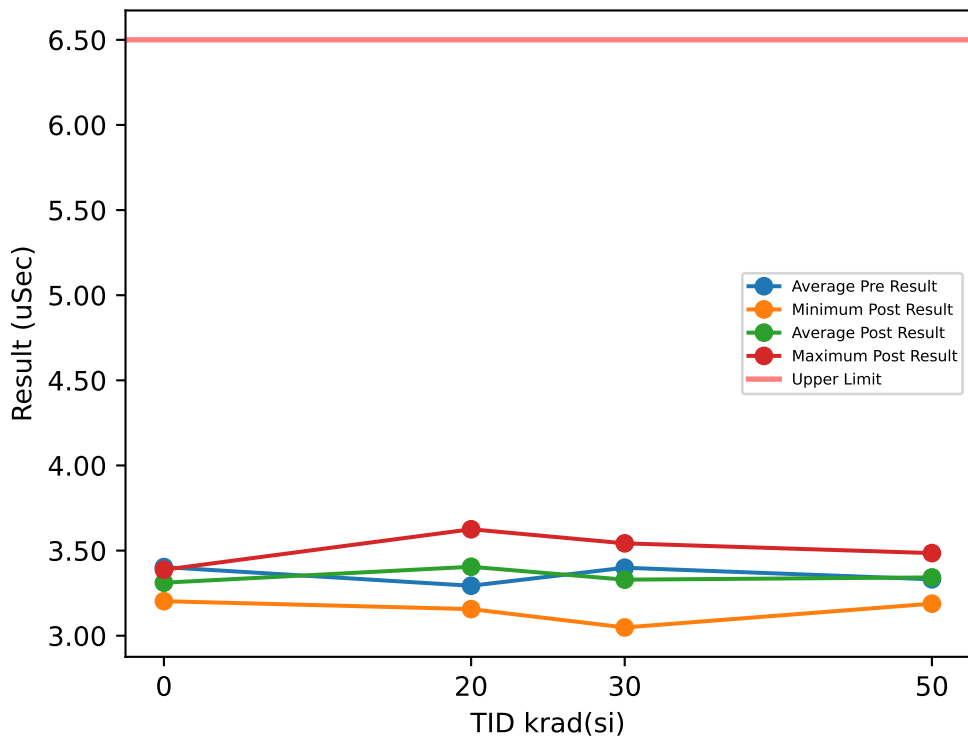| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.3297 | 3.4462 | 0.1165 |
| 2 | 20 | Bias | 3.4313 | 3.3625 | -0.0688 |
| 3 | 20 | Bias | 3.4392 | 3.4544 | 0.0152 |
| 4 | 20 | Bias | 3.3822 | 3.4034 | 0.0212 |
| 5 | 20 | Bias | 3.1485 | 3.2132 | 0.0647 |
| 6 | 20 | Unbiased | 3.2414 | 3.2424 | 0.001 |
| 7 | 20 | Unbiased | 3.1932 | 3.2789 | 0.0857 |
| 8 | 20 | Unbiased | 3.4734 | 3.4142 | -0.0592 |
| 9 | 20 | Unbiased | 3.3205 | 3.2689 | -0.0516 |
| 10 | 20 | Unbiased | 3.3248 | 3.3194 | -0.0054 |
| 11 | 30 | Bias | 3.218 | 3.427 | 0.209 |
| 12 | 30 | Bias | 3.4656 | 3.255 | -0.2106 |
| 13 | 30 | Bias | 3.0743 | 3.1383 | 0.064 |
| 14 | 30 | Bias | 3.3952 | 3.2663 | -0.1289 |
| 15 | 30 | Bias | 3.3854 | 3.1665 | -0.2189 |
| 16 | 30 | Unbiased | 3.266 | 3.106 | -0.16 |
| 17 | 30 | Unbiased | 3.3868 | 3.3235 | -0.0633 |
| 18 | 30 | Unbiased | 3.308 | 3.5492 | 0.2412 |
| 19 | 30 | Unbiased | 3.2482 | 3.3714 | 0.1232 |
| 20 | 30 | Unbiased | 3.2175 | 3.2439 | 0.0264 |
| 21 | 50 | Bias | 3.2808 | 3.5003 | 0.2195 |
| 22 | 50 | Bias | 3.5185 | 3.3934 | -0.1251 |
| 23 | 50 | Bias | 3.2815 | 3.5339 | 0.2524 |
| 24 | 50 | Bias | 3.2688 | 3.2735 | 0.0047 |
| 25 | 50 | Bias | 3.3107 | 3.2954 | -0.0153 |
| 26 | 50 | Unbiased | 3.4821 | 3.5629 | 0.0808 |
| 27 | 50 | Unbiased | 3.5877 | 3.258 | -0.3297 |
| 28 | 50 | Unbiased | 3.1253 | 3.581 | 0.4557 |
| 29 | 50 | Unbiased | 3.1291 | 3.3821 | 0.253 |
| 30 | 50 | Unbiased | 3.4589 | 3.1725 | -0.2864 |
| 31 | 0 | Correlation | 3.1307 | 3.222 | 0.0913 |
| 32 | 0 | Correlation | 3.3703 | 3.0099 | -0.3604 |
| 33 | 0 | Correlation | 3.4405 | 3.2308 | -0.2097 |
| 34 | 0 | Correlation | 3.3917 | 3.4012 | 0.0095 |

## Test Statistics (uSec)
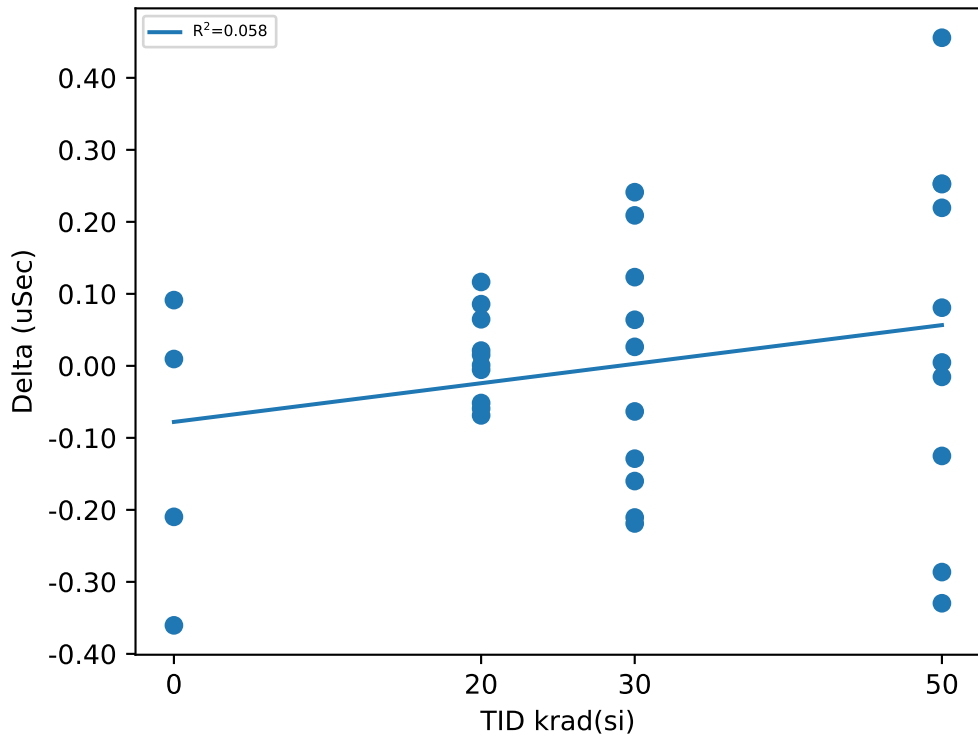
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.1307 | 3.3333 | 3.4405 | 0.13822 | 3.0099 | 3.216 | 3.4012 | 0.16024 | -0.3604 | -0.11733 | 0.0913 | 0.20593 |
| 20 | 3.1485 | 3.3284 | 3.4734 | 0.10805 | 3.2132 | 3.3403 | 3.4544 | 0.087694 | -0.0688 | 0.01193 | 0.1165 | 0.06262 |
| 30 | 3.0743 | 3.2965 | 3.4656 | 0.11526 | 3.106 | 3.2847 | 3.5492 | 0.13722 | -0.2189 | -0.01179 | 0.2412 | 0.16962 |
| 50 | 3.1253 | 3.3443 | 3.5877 | 0.16013 | 3.1725 | 3.3953 | 3.581 | 0.14387 | -0.3297 | 0.05096 | 0.4557 | 0.25183 |
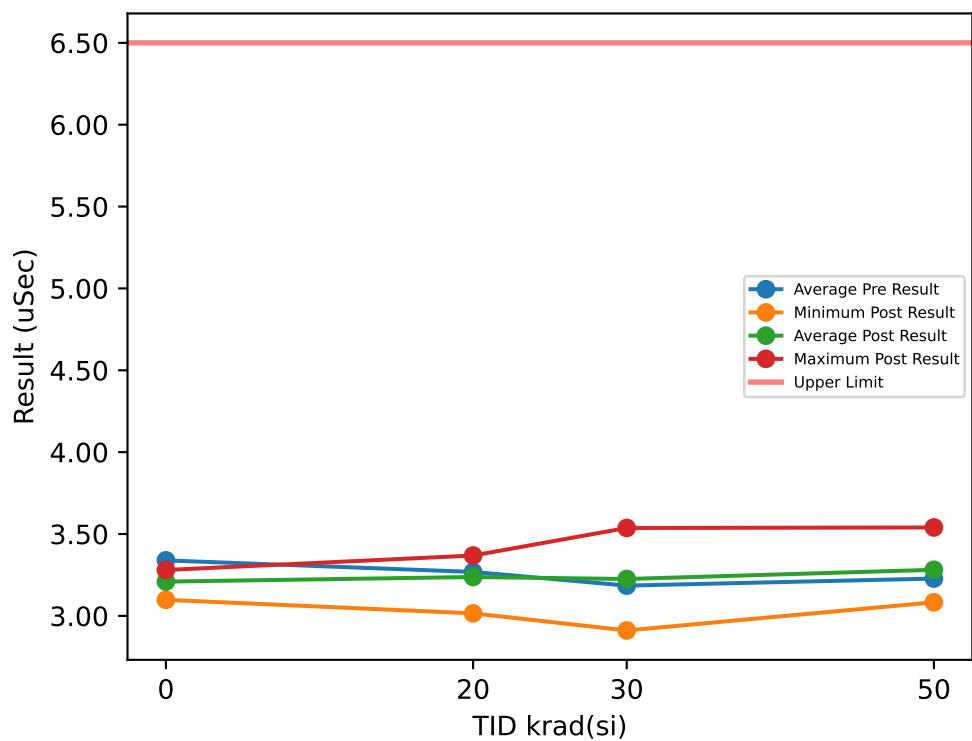
# Device Test: 17.22  TPD_EN(_DELAY|STEP_DOWN/EN4/1.6/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.3701 | 3.3077 | -0.0624 |
| 2 | 20 | Bias | 3.2334 | 3.2759 | 0.0425 |
| 3 | 20 | Bias | 3.064 | 3.147 | 0.083 |
| 4 | 20 | Bias | 3.2179 | 3.2492 | 0.0313 |
| 5 | 20 | Bias | 3.2792 | 3.3687 | 0.0895 |
| 6 | 20 | Unbiased | 3.285 | 3.2224 | -0.0626 |
| 7 | 20 | Unbiased | 3.2446 | 3.0155 | -0.2291 |
| 8 | 20 | Unbiased | 3.3302 | 3.2315 | -0.0987 |
| 9 | 20 | Unbiased | 3.3473 | 3.2332 | -0.1141 |
| 10 | 20 | Unbiased | 3.3122 | 3.3226 | 0.0104 |
| 11 | 30 | Bias | 3.2639 | 3.1469 | -0.117 |
| 12 | 30 | Bias | 3.1837 | 3.4111 | 0.2274 |
| 13 | 30 | Bias | 3.1735 | 3.1403 | -0.0332 |
| 14 | 30 | Bias | 3.3665 | 2.911 | -0.4555 |
| 15 | 30 | Bias | 3.1527 | 2.9974 | -0.1553 |
| 16 | 30 | Unbiased | 3.1375 | 3.3545 | 0.217 |
| 17 | 30 | Unbiased | 3.021 | 3.2707 | 0.2497 |
| 18 | 30 | Unbiased | 3.1866 | 3.537 | 0.3504 |
| 19 | 30 | Unbiased | 2.9237 | 3.2024 | 0.2787 |
| 20 | 30 | Unbiased | 3.4398 | 3.2818 | -0.158 |
| 21 | 50 | Bias | 3.2347 | 3.083 | -0.1517 |
| 22 | 50 | Bias | 3.4101 | 3.1468 | -0.2633 |
| 23 | 50 | Bias | 3.1419 | 3.2123 | 0.0704 |
| 24 | 50 | Bias | 3.0635 | 3.2657 | 0.2022 |
| 25 | 50 | Bias | 3.4295 | 3.4429 | 0.0134 |
| 26 | 50 | Unbiased | 3.2233 | 3.5401 | 0.3168 |
| 27 | 50 | Unbiased | 3.143 | 3.2542 | 0.1112 |
| 28 | 50 | Unbiased | 3.2263 | 3.433 | 0.2067 |
| 29 | 50 | Unbiased | 3.2851 | 3.1829 | -0.1022 |
| 30 | 50 | Unbiased | 3.1218 | 3.2553 | 0.1335 |
| 31 | 0 | Correlation | 3.3135 | 3.0982 | -0.2153 |
| 32 | 0 | Correlation | 3.3106 | 3.2803 | -0.0303 |
| 33 | 0 | Correlation | 3.4383 | 3.2574 | -0.1809 |
| 34 | 0 | Correlation | 3.294 | 3.2015 | -0.0925 |

## Test Statistics (uSec)
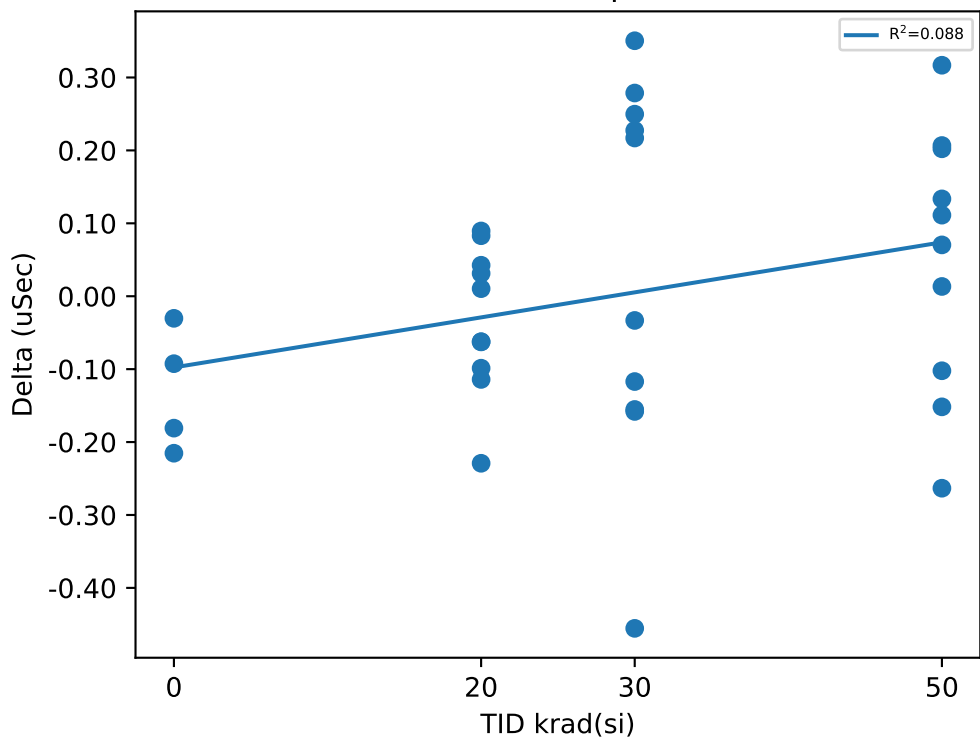
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.294 | 3.3391 | 3.4383 | 0.066689 | 3.0982 | 3.2093 | 3.2803 | 0.081156 | -0.2153 | -0.12975 | -0.0303 | 0.084089 |
| 20 | 3.064 | 3.2684 | 3.3701 | 0.087445 | 3.0155 | 3.2374 | 3.3687 | 0.099304 | -0.2291 | -0.03102 | 0.0895 | 0.10068 |
| 30 | 2.9237 | 3.1849 | 3.4398 | 0.15007 | 2.911 | 3.2253 | 3.537 | 0.18804 | -0.4555 | 0.04042 | 0.3504 | 0.26175 |
| 50 | 3.0635 | 3.2279 | 3.4295 | 0.12022 | 3.083 | 3.2816 | 3.5401 | 0.14515 | -0.2633 | 0.0537 | 0.3168 | 0.18051 |
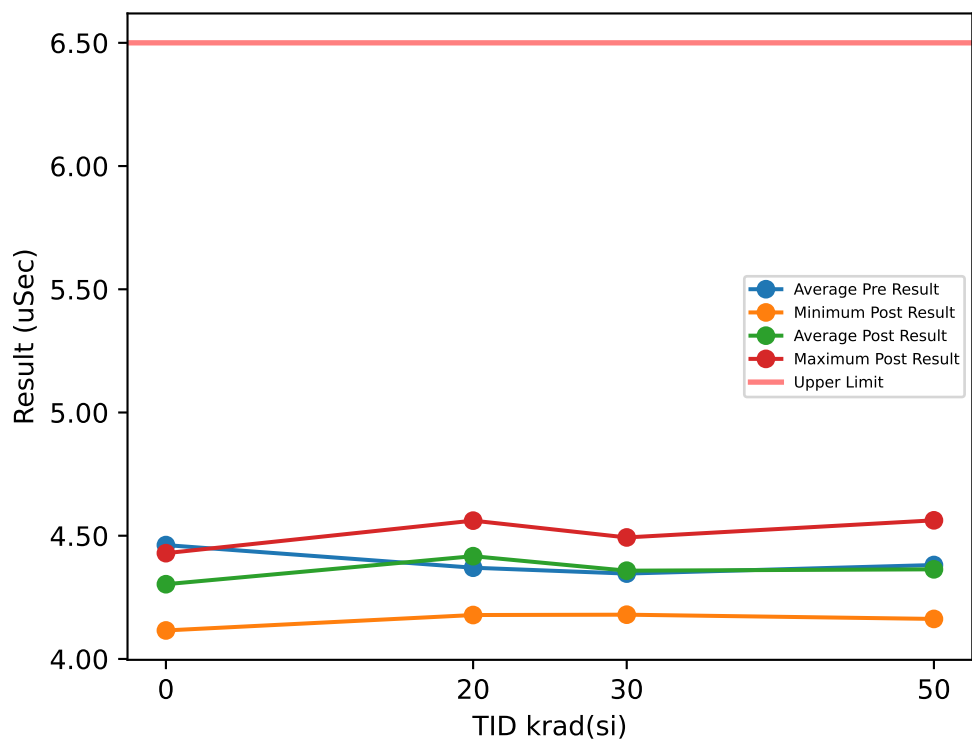
# Device Test: 17.23  TPD_SEQ_DONE(_DELAY|STEP_DOWN/SEQ_DONE/1.6/14/0/0/0/@TPD_SEQ_DONE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 4.3204 | 4.2898 | -0.0306 |
| 2 | 20 | Bias | 4.3704 | 4.5612 | 0.1908 |
| 3 | 20 | Bias | 4.3735 | 4.3507 | -0.0228 |
| 4 | 20 | Bias | 4.4399 | 4.4883 | 0.0484 |
| 5 | 20 | Bias | 4.2841 | 4.1782 | -0.1059 |
| 6 | 20 | Unbiased | 4.4842 | 4.4119 | -0.0723 |
| 7 | 20 | Unbiased | 4.3627 | 4.5096 | 0.1469 |
| 8 | 20 | Unbiased | 4.4918 | 4.4275 | -0.0643 |
| 9 | 20 | Unbiased | 4.2991 | 4.5403 | 0.2412 |
| 10 | 20 | Unbiased | 4.276 | 4.4122 | 0.1362 |
| 11 | 30 | Bias | 4.1995 | 4.493 | 0.2935 |
| 12 | 30 | Bias | 4.1454 | 4.3955 | 0.2501 |
| 13 | 30 | Bias | 4.3531 | 4.3192 | -0.0339 |
| 14 | 30 | Bias | 4.3476 | 4.3196 | -0.028 |
| 15 | 30 | Bias | 4.5166 | 4.357 | -0.1596 |
| 16 | 30 | Unbiased | 4.5748 | 4.2532 | -0.3216 |
| 17 | 30 | Unbiased | 4.3845 | 4.4072 | 0.0227 |
| 18 | 30 | Unbiased | 4.2534 | 4.3932 | 0.1398 |
| 19 | 30 | Unbiased | 4.3161 | 4.4642 | 0.1481 |
| 20 | 30 | Unbiased | 4.3727 | 4.1796 | -0.1931 |
| 21 | 50 | Bias | 4.476 | 4.5625 | 0.0865 |
| 22 | 50 | Bias | 4.6017 | 4.2658 | -0.3359 |
| 23 | 50 | Bias | 4.3614 | 4.4412 | 0.0798 |
| 24 | 50 | Bias | 4.0926 | 4.1624 | 0.0698 |
| 25 | 50 | Bias | 4.3984 | 4.3939 | -0.0045 |
| 26 | 50 | Unbiased | 4.3896 | 4.4163 | 0.0267 |
| 27 | 50 | Unbiased | 4.4116 | 4.3866 | -0.025 |
| 28 | 50 | Unbiased | 4.5537 | 4.3433 | -0.2104 |
| 29 | 50 | Unbiased | 4.3603 | 4.3614 | 0.0011 |
| 30 | 50 | Unbiased | 4.1663 | 4.303 | 0.1367 |
| 31 | 0 | Correlation | 4.5947 | 4.4028 | -0.1919 |
| 32 | 0 | Correlation | 4.5798 | 4.2653 | -0.3145 |
| 33 | 0 | Correlation | 4.3362 | 4.1156 | -0.2206 |
| 34 | 0 | Correlation | 4.3373 | 4.4292 | 0.0919 |

## Test Statistics (uSec)
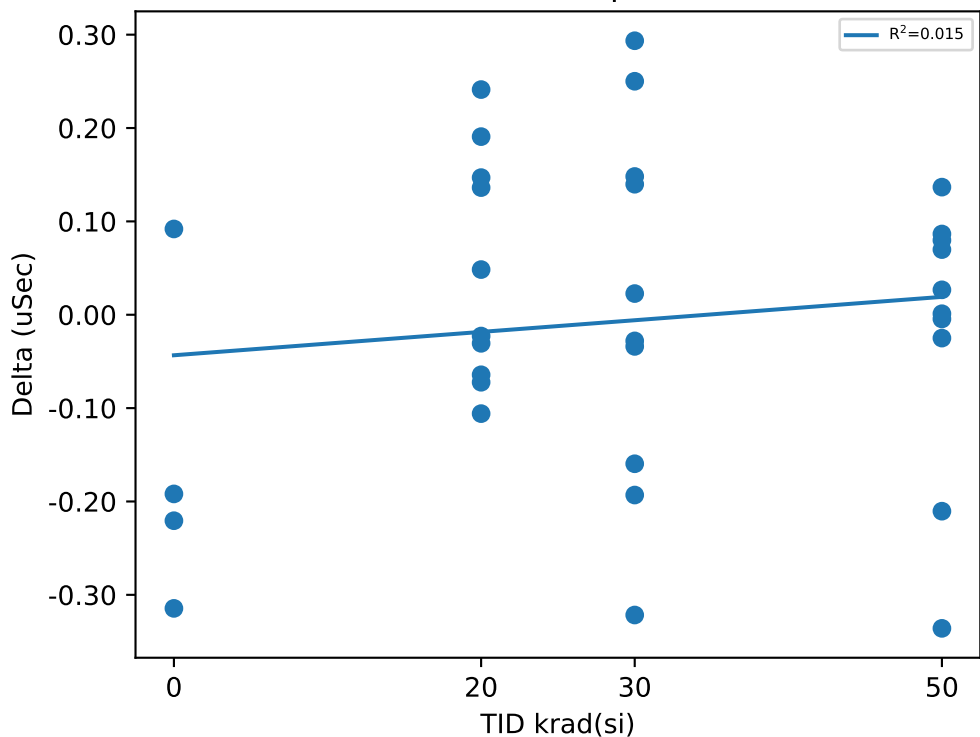
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 4.3362 | 4.462 | 4.5947 | 0.14475 | 4.1156 | 4.3032 | 4.4292 | 0.14425 | -0.3145 | -0.15877 | 0.0919 | 0.17513 |
| 20 | 4.276 | 4.3702 | 4.4918 | 0.079253 | 4.1782 | 4.417 | 4.5612 | 0.11898 | -0.1059 | 0.04676 | 0.2412 | 0.12348 |
| 30 | 4.1454 | 4.3464 | 4.5748 | 0.13118 | 4.1796 | 4.3582 | 4.493 | 0.094493 | -0.3216 | 0.0118 | 0.2935 | 0.19928 |
| 50 | 4.0926 | 4.3812 | 4.6017 | 0.15598 | 4.1624 | 4.3636 | 4.5625 | 0.10747 | -0.3359 | -0.01752 | 0.1367 | 0.14636 |
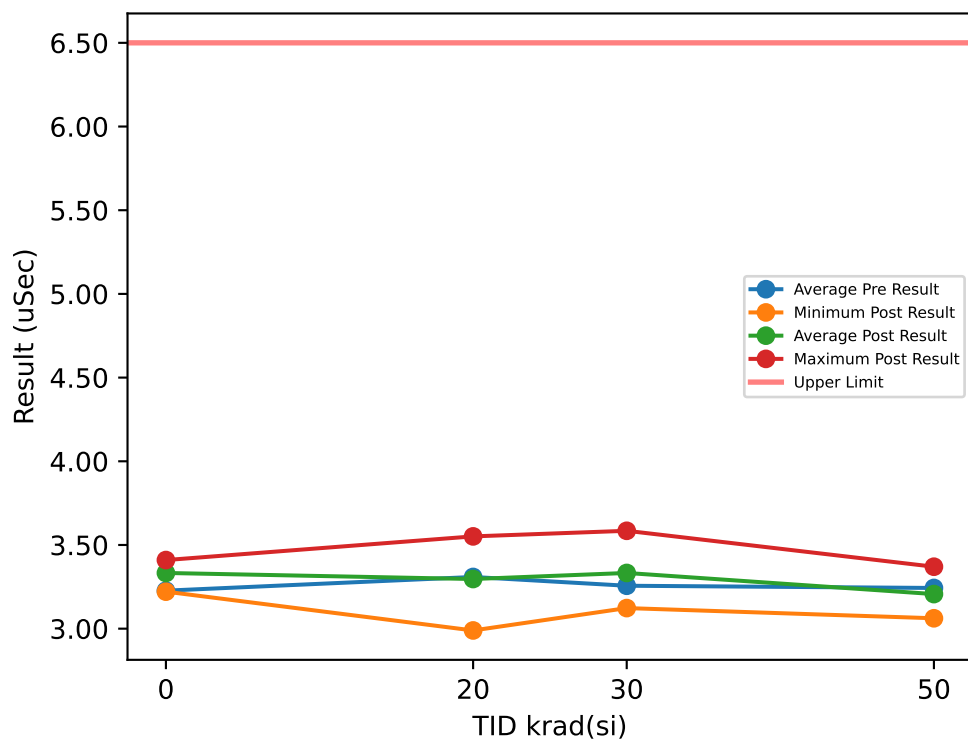
# Device Test: 17.24  TPD_PWRGD(_DELAY|STEP_DOWN/PWRGD/1.6/14/0/0/0/@TPD_PWRGD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.2365 | 3.5513 | 0.3148 |
| 2 | 20 | Bias | 3.4875 | 3.4622 | -0.0253 |
| 3 | 20 | Bias | 3.2704 | 3.3209 | 0.0505 |
| 4 | 20 | Bias | 3.4011 | 3.3295 | -0.0716 |
| 5 | 20 | Bias | 3.2058 | 3.3019 | 0.0961 |
| 6 | 20 | Unbiased | 3.3428 | 3.2661 | -0.0767 |
| 7 | 20 | Unbiased | 3.1714 | 2.9893 | -0.1821 |
| 8 | 20 | Unbiased | 3.3326 | 3.3441 | 0.0115 |
| 9 | 20 | Unbiased | 3.3085 | 3.2523 | -0.0562 |
| 10 | 20 | Unbiased | 3.332 | 3.1488 | -0.1832 |
| 11 | 30 | Bias | 3.2987 | 3.3887 | 0.09 |
| 12 | 30 | Bias | 3.0318 | 3.5847 | 0.5529 |
| 13 | 30 | Bias | 3.2773 | 3.4119 | 0.1346 |
| 14 | 30 | Bias | 2.9686 | 3.3741 | 0.4055 |
| 15 | 30 | Bias | 3.3133 | 3.3731 | 0.0598 |
| 16 | 30 | Unbiased | 3.1463 | 3.1754 | 0.0291 |
| 17 | 30 | Unbiased | 3.3051 | 3.1987 | -0.1064 |
| 18 | 30 | Unbiased | 3.3488 | 3.3057 | -0.0431 |
| 19 | 30 | Unbiased | 3.4951 | 3.3928 | -0.1023 |
| 20 | 30 | Unbiased | 3.3793 | 3.123 | -0.2563 |
| 21 | 50 | Bias | 3.1529 | 3.279 | 0.1261 |
| 22 | 50 | Bias | 3.2631 | 3.123 | -0.1401 |
| 23 | 50 | Bias | 3.101 | 3.235 | 0.134 |
| 24 | 50 | Bias | 3.286 | 3.1416 | -0.1444 |
| 25 | 50 | Bias | 3.241 | 3.1742 | -0.0668 |
| 26 | 50 | Unbiased | 3.3507 | 3.0833 | -0.2674 |
| 27 | 50 | Unbiased | 3.3949 | 3.3031 | -0.0918 |
| 28 | 50 | Unbiased | 2.945 | 3.295 | 0.35 |
| 29 | 50 | Unbiased | 3.3448 | 3.3701 | 0.0253 |
| 30 | 50 | Unbiased | 3.3528 | 3.0621 | -0.2907 |
| 31 | 0 | Correlation | 3.1752 | 3.4099 | 0.2347 |
| 32 | 0 | Correlation | 3.2158 | 3.3169 | 0.1011 |
| 33 | 0 | Correlation | 3.3447 | 3.2211 | -0.1236 |
| 34 | 0 | Correlation | 3.1726 | 3.3832 | 0.2106 |

## Test Statistics (uSec)
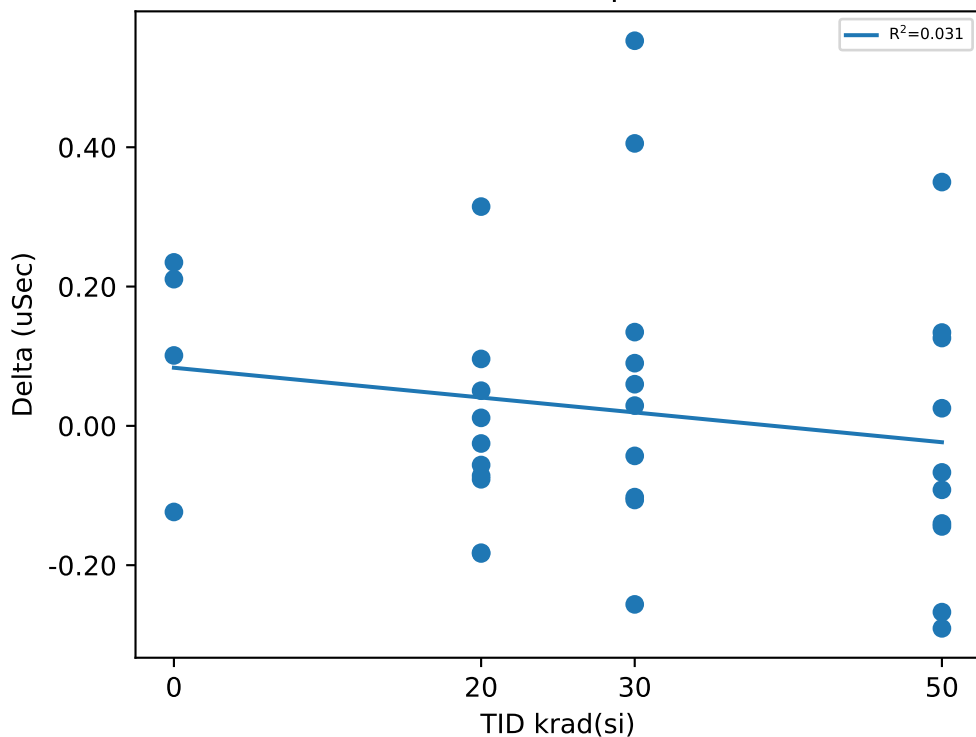
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.1726 | 3.2271 | 3.3447 | 0.080873 | 3.2211 | 3.3328 | 3.4099 | 0.084092 | -0.1236 | 0.1057 | 0.2347 | 0.16355 |
| 20 | 3.1714 | 3.3089 | 3.4875 | 0.093632 | 2.9893 | 3.2966 | 3.5513 | 0.15471 | -0.1832 | -0.01222 | 0.3148 | 0.1457 |
| 30 | 2.9686 | 3.2564 | 3.4951 | 0.16119 | 3.123 | 3.3328 | 3.5847 | 0.13633 | -0.2563 | 0.07638 | 0.5529 | 0.24307 |
| 50 | 2.945 | 3.2432 | 3.3949 | 0.14001 | 3.0621 | 3.2066 | 3.3701 | 0.10449 | -0.2907 | -0.03658 | 0.35 | 0.19804 |

# Device Test: 17.25  TPD_EN(_DELAY|STEP_UP/EN1/7/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.1505 | 3.0451 | -0.1054 |
| 2 | 20 | Bias | 3.1678 | 3.1171 | -0.0507 |
| 3 | 20 | Bias | 3.13 | 3.0091 | -0.1209 |
| 4 | 20 | Bias | 3.094 | 2.853 | -0.241 |
| 5 | 20 | Bias | 2.8616 | 3.144 | 0.2824 |
| 6 | 20 | Unbiased | 2.7955 | 2.9672 | 0.1717 |
| 7 | 20 | Unbiased | 2.8465 | 2.899 | 0.0525 |
| 8 | 20 | Unbiased | 3.033 | 2.8776 | -0.1554 |
| 9 | 20 | Unbiased | 2.9585 | 2.894 | -0.0645 |
| 10 | 20 | Unbiased | 2.7872 | 3.3487 | 0.5615 |
| 11 | 30 | Bias | 2.7279 | 2.8201 | 0.0922 |
| 12 | 30 | Bias | 2.879 | 2.9695 | 0.0905 |
| 13 | 30 | Bias | 3.225 | 2.758 | -0.467 |
| 14 | 30 | Bias | 3.0147 | 2.9536 | -0.0611 |
| 15 | 30 | Bias | 2.8259 | 3.1144 | 0.2885 |
| 16 | 30 | Unbiased | 3.0493 | 2.8793 | -0.17 |
| 17 | 30 | Unbiased | 2.89 | 3.1114 | 0.2214 |
| 18 | 30 | Unbiased | 2.9262 | 2.874 | -0.0522 |
| 19 | 30 | Unbiased | 2.8071 | 3.095 | 0.2879 |
| 20 | 30 | Unbiased | 2.9707 | 3.041 | 0.0703 |
| 21 | 50 | Bias | 2.9492 | 3.1432 | 0.194 |
| 22 | 50 | Bias | 2.848 | 2.8406 | -0.0074 |
| 23 | 50 | Bias | 2.8825 | 3.0825 | 0.2 |
| 24 | 50 | Bias | 2.8705 | 2.862 | -0.0085 |
| 25 | 50 | Bias | 2.735 | 2.8752 | 0.1402 |
| 26 | 50 | Unbiased | 3.0333 | 2.7467 | -0.2866 |
| 27 | 50 | Unbiased | 2.7384 | 3.0965 | 0.3581 |
| 28 | 50 | Unbiased | 2.9058 | 2.6781 | -0.2277 |
| 29 | 50 | Unbiased | 2.8909 | 2.9013 | 0.0104 |
| 30 | 50 | Unbiased | 2.7285 | 2.9589 | 0.2304 |
| 31 | 0 | Correlation | 3.0086 | 3.0507 | 0.0421 |
| 32 | 0 | Correlation | 3.1003 | 3.122 | 0.0217 |
| 33 | 0 | Correlation | 2.8657 | 3.0184 | 0.1527 |
| 34 | 0 | Correlation | 3.2565 | 3.0493 | -0.2072 |

## Test Statistics (uSec)
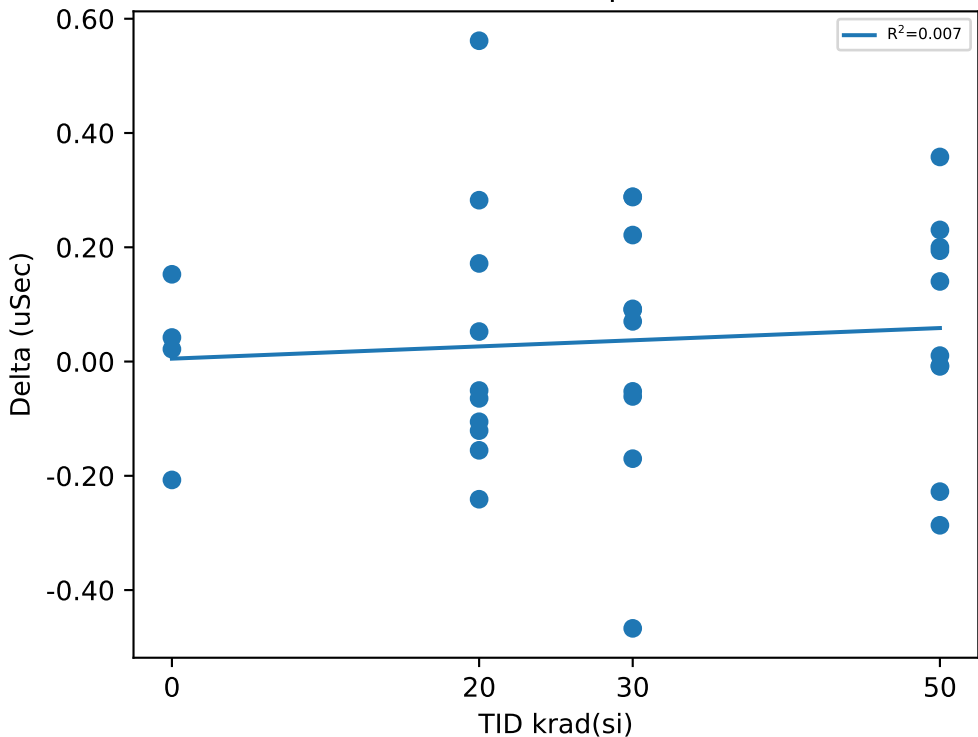
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.8657 | 3.0578 | 3.2565 | 0.16392 | 3.0184 | 3.0601 | 3.122 | 0.043877 | -0.2072 | 0.002325 | 0.1527 | 0.15107 |
| 20 | 2.7872 | 2.9825 | 3.1678 | 0.15133 | 2.853 | 3.0155 | 3.3487 | 0.15451 | -0.241 | 0.03302 | 0.5615 | 0.24291 |
| 30 | 2.7279 | 2.9316 | 3.225 | 0.14184 | 2.758 | 2.9616 | 3.1144 | 0.12734 | -0.467 | 0.03005 | 0.2885 | 0.23123 |
| 50 | 2.7285 | 2.8582 | 3.0333 | 0.099707 | 2.6781 | 2.9185 | 3.1432 | 0.15255 | -0.2866 | 0.06029 | 0.3581 | 0.20453 |

# Device Test: 17.26  TPD_EN(_DELAY|STEP_UP/EN2/7/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

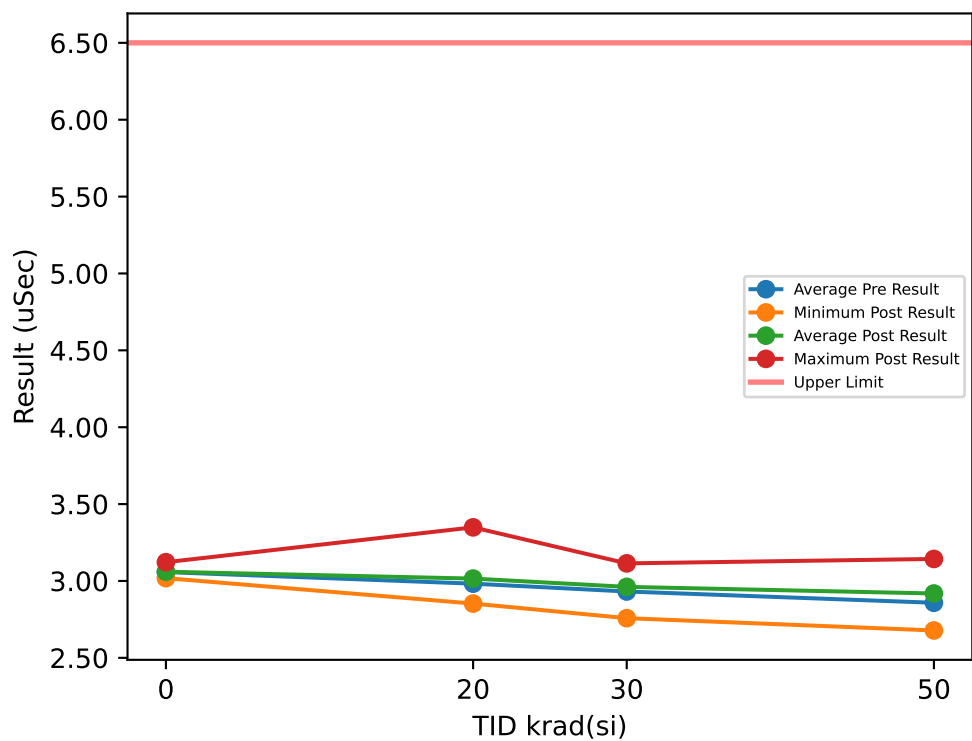| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 3.0616 | 3.3174 | 0.2558 |
| 2 | 20 | Bias | 3.4303 | 3.1895 | -0.2408 |
| 3 | 20 | Bias | 3.1038 | 2.9684 | -0.1354 |
| 4 | 20 | Bias | 3.5291 | 3.2318 | -0.2973 |
| 5 | 20 | Bias | 3.3147 | 3.2628 | -0.0519 |
| 6 | 20 | Unbiased | 3.1694 | 3.332 | 0.1626 |
| 7 | 20 | Unbiased | 3.1071 | 3.0823 | -0.0248 |
| 8 | 20 | Unbiased | 3.2035 | 3.4494 | 0.2459 |
| 9 | 20 | Unbiased | 3.0474 | 3.2221 | 0.1747 |
| 10 | 20 | Unbiased | 3.1183 | 3.3082 | 0.1899 |
| 11 | 30 | Bias | 3.1183 | 3.2406 | 0.1223 |
| 12 | 30 | Bias | 3.0987 | 3.4654 | 0.3667 |
| 13 | 30 | Bias | 3.2322 | 3.1331 | -0.0991 |
| 14 | 30 | Bias | 3.1787 | 3.0143 | -0.1644 |
| 15 | 30 | Bias | 3.0701 | 3.313 | 0.2429 |
| 16 | 30 | Unbiased | 3.1678 | 3.2248 | 0.057 |
| 17 | 30 | Unbiased | 3.2889 | 3.0852 | -0.2037 |
| 18 | 30 | Unbiased | 3.2317 | 3.3555 | 0.1238 |
| 19 | 30 | Unbiased | 3.1975 | 3.122 | -0.0755 |
| 20 | 30 | Unbiased | 3.3536 | 3.1851 | -0.1685 |
| 21 | 50 | Bias | 3.1882 | 3.0883 | -0.0999 |
| 22 | 50 | Bias | 3.1618 | 3.3106 | 0.1488 |
| 23 | 50 | Bias | 2.9326 | 3.3321 | 0.3995 |
| 24 | 50 | Bias | 3.1695 | 2.9735 | -0.196 |
| 25 | 50 | Bias | 3.1579 | 3.2369 | 0.079 |
| 26 | 50 | Unbiased | 3.2791 | 3.258 | -0.0211 |
| 27 | 50 | Unbiased | 3.3092 | 3.1643 | -0.1449 |
| 28 | 50 | Unbiased | 2.9188 | 3.2611 | 0.3423 |
| 29 | 50 | Unbiased | 3.2213 | 3.0726 | -0.1487 |
| 30 | 50 | Unbiased | 3.1012 | 3.2777 | 0.1765 |
| 31 | 0 | Correlation | 3.0653 | 3.3215 | 0.2562 |
| 32 | 0 | Correlation | 3.0878 | 3.1998 | 0.112 |
| 33 | 0 | Correlation | 3.1879 | 3.0067 | -0.1812 |
| 34 | 0 | Correlation | 2.9544 | 3.2299 | 0.2755 |

## Test Statistics (uSec)
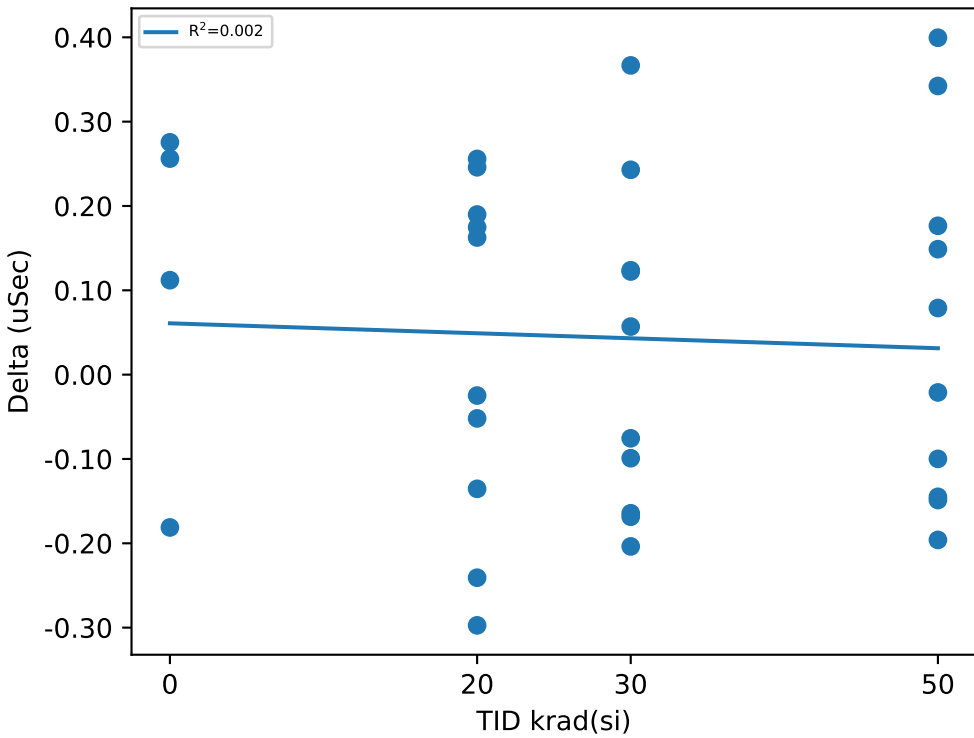
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.9544 | 3.0739 | 3.1879 | 0.095818 | 3.0067 | 3.1895 | 3.3215 | 0.13239 | -0.1812 | 0.11562 | 0.2755 | 0.2109 |
| 20 | 3.0474 | 3.2085 | 3.5291 | 0.16389 | 2.9684 | 3.2364 | 3.4494 | 0.13537 | -0.2973 | 0.02787 | 0.2558 | 0.20526 |
| 30 | 3.0701 | 3.1938 | 3.3536 | 0.087213 | 3.0143 | 3.2139 | 3.4654 | 0.13588 | -0.2037 | 0.02015 | 0.3667 | 0.19304 |
| 50 | 2.9188 | 3.144 | 3.3092 | 0.1299 | 2.9735 | 3.1975 | 3.3321 | 0.11804 | -0.196 | 0.05355 | 0.3995 | 0.21071 |

# Device Test: 17.27  TPD_EN(_DELAY|STEP_UP/EN3/7/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

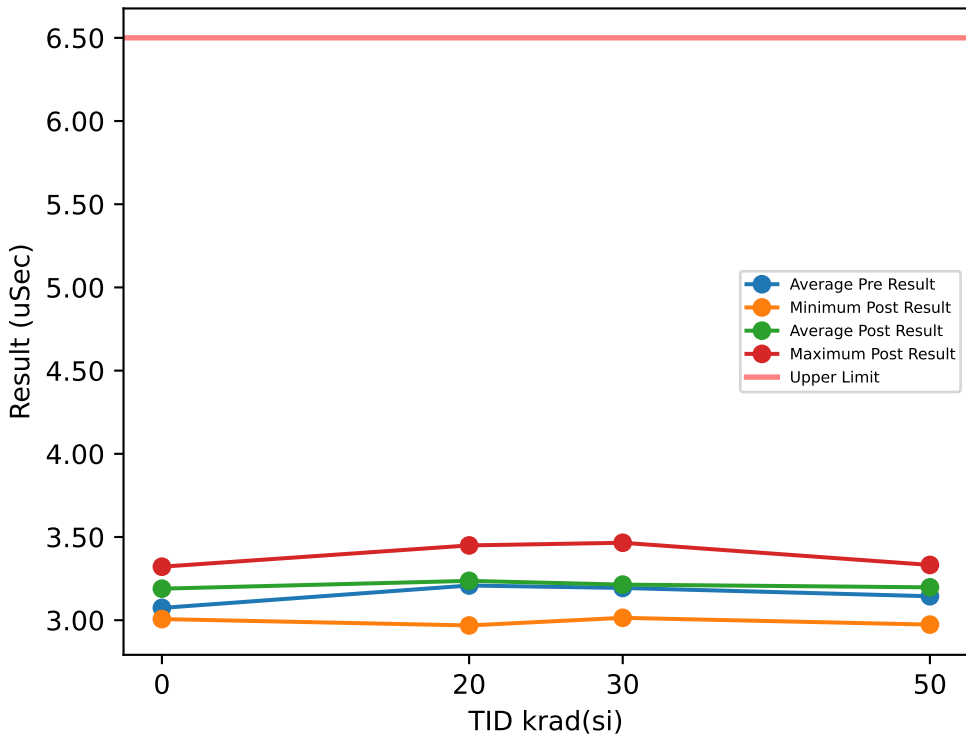| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.3551 | 3.1558 | -0.1993 |
| 2 | 20 | Bias | 3.1941 | 3.114 | -0.0801 |
| 3 | 20 | Bias | 3.3044 | 3.2312 | -0.0732 |
| 4 | 20 | Bias | 3.1986 | 3.1622 | -0.0364 |
| 5 | 20 | Bias | 3.2427 | 3.0307 | -0.212 |
| 6 | 20 | Unbiased | 3.1532 | 3.3711 | 0.2179 |
| 7 | 20 | Unbiased | 3.3219 | 3.1577 | -0.1642 |
| 8 | 20 | Unbiased | 3.1224 | 3.2478 | 0.1254 |
| 9 | 20 | Unbiased | 3.139 | 3.3122 | 0.1732 |
| 10 | 20 | Unbiased | 3.2242 | 3.2398 | 0.0156 |
| 11 | 30 | Bias | 3.2264 | 3.4075 | 0.1811 |
| 12 | 30 | Bias | 3.3588 | 3.2048 | -0.154 |
| 13 | 30 | Bias | 2.9596 | 3.1405 | 0.1809 |
| 14 | 30 | Bias | 3.4039 | 2.9909 | -0.413 |
| 15 | 30 | Bias | 3.1212 | 3.2008 | 0.0796 |
| 16 | 30 | Unbiased | 3.1333 | 2.9673 | -0.166 |
| 17 | 30 | Unbiased | 2.9879 | 3.1651 | 0.1772 |
| 18 | 30 | Unbiased | 3.1167 | 3.2803 | 0.1636 |
| 19 | 30 | Unbiased | 3.3138 | 3.3192 | 0.0054 |
| 20 | 30 | Unbiased | 3.298 | 3.0825 | -0.2155 |
| 21 | 50 | Bias | 3.325 | 3.0585 | -0.2665 |
| 22 | 50 | Bias | 3.2442 | 3.1973 | -0.0469 |
| 23 | 50 | Bias | 3.2831 | 3.2444 | -0.0387 |
| 24 | 50 | Bias | 3.1202 | 3.1261 | 0.0059 |
| 25 | 50 | Bias | 3.3619 | 3.3119 | -0.05 |
| 26 | 50 | Unbiased | 3.1635 | 3.0782 | -0.0853 |
| 27 | 50 | Unbiased | 3.1898 | 2.8991 | -0.2907 |
| 28 | 50 | Unbiased | 3.4087 | 3.1653 | -0.2434 |
| 29 | 50 | Unbiased | 3.0208 | 3.2818 | 0.261 |
| 30 | 50 | Unbiased | 3.3253 | 3.204 | -0.1213 |
| 31 | 0 | Correlation | 3.219 | 3.1752 | -0.0438 |
| 32 | 0 | Correlation | 3.3295 | 2.9754 | -0.3541 |
| 33 | 0 | Correlation | 2.99 | 3.1123 | 0.1223 |
| 34 | 0 | Correlation | 3.1472 | 3.1549 | 0.0077 |

## Test Statistics (uSec)
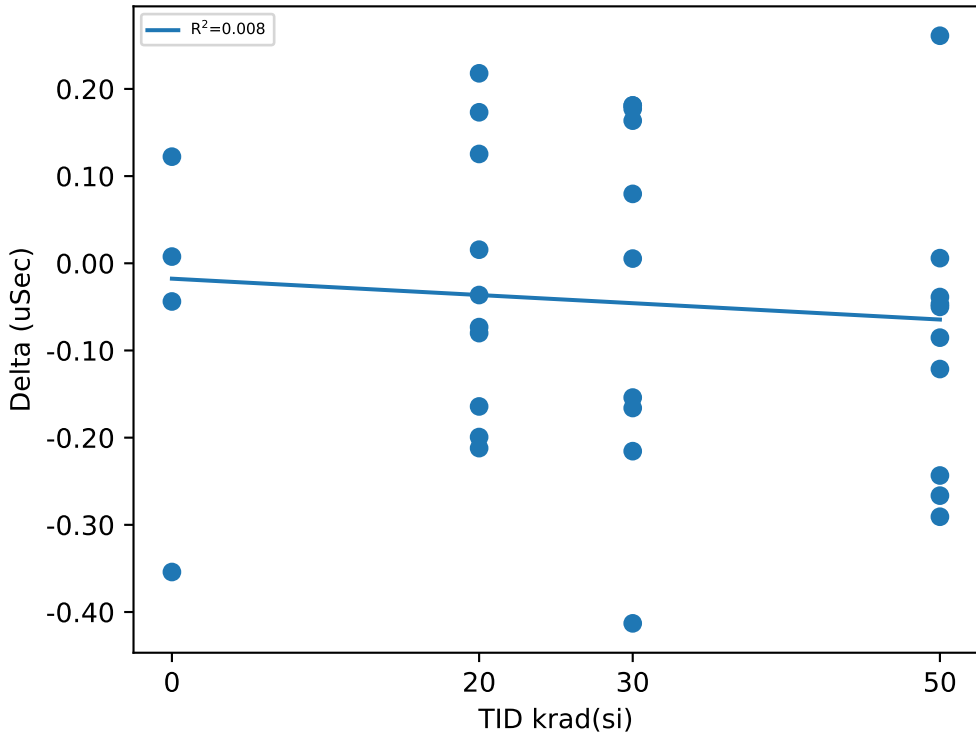
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.99 | 3.1714 | 3.3295 | 0.14231 | 2.9754 | 3.1044 | 3.1752 | 0.089938 | -0.3541 | -0.066975 | 0.1223 | 0.20362 |
| 20 | 3.1224 | 3.2256 | 3.3551 | 0.080042 | 3.0307 | 3.2023 | 3.3711 | 0.098819 | -0.212 | -0.02331 | 0.2179 | 0.15375 |
| 30 | 2.9596 | 3.192 | 3.4039 | 0.15267 | 2.9673 | 3.1759 | 3.4075 | 0.13919 | -0.413 | -0.01607 | 0.1811 | 0.2097 |
| 50 | 3.0208 | 3.2443 | 3.4087 | 0.12032 | 2.8991 | 3.1567 | 3.3119 | 0.12224 | -0.2907 | -0.08759 | 0.261 | 0.16138 |

# Device Test: 17.28  TPD_EN(_DELAY|STEP_UP/EN4/7/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

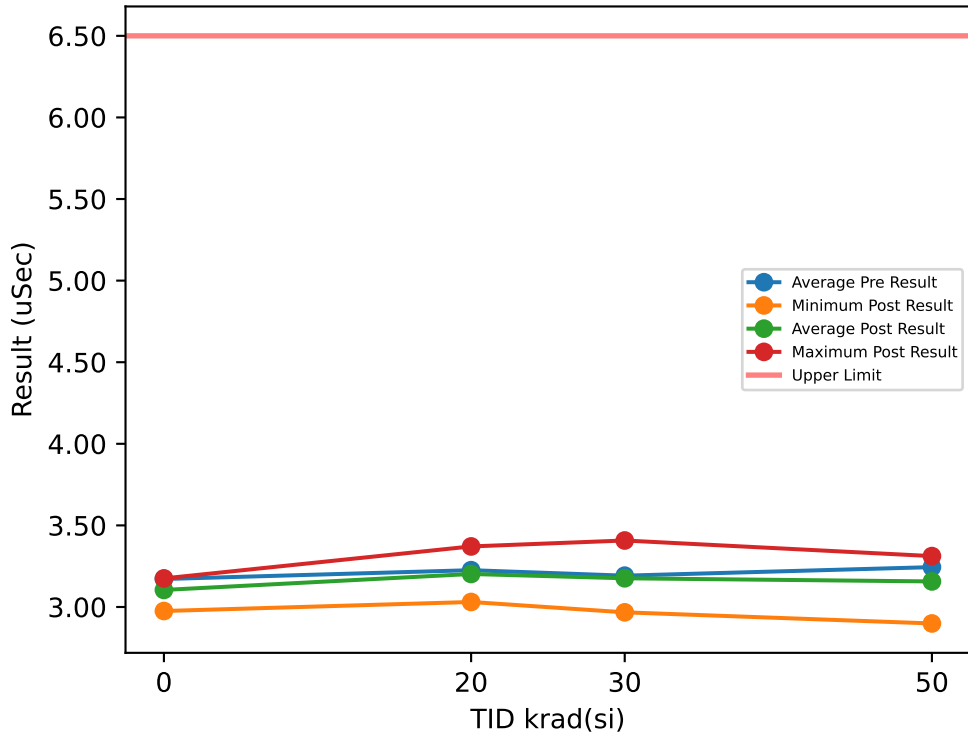| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 3.452 | 3.237 | -0.215 |
| 2 | 20 | Bias | 3.3971 | 3.2665 | -0.1306 |
| 3 | 20 | Bias | 3.3675 | 3.1618 | -0.2057 |
| 4 | 20 | Bias | 3.3579 | 2.9891 | -0.3688 |
| 5 | 20 | Bias | 3.0244 | 2.9495 | -0.0749 |
| 6 | 20 | Unbiased | 3.2961 | 3.1121 | -0.184 |
| 7 | 20 | Unbiased | 3.3848 | 3.3608 | -0.024 |
| 8 | 20 | Unbiased | 3.356 | 3.3227 | -0.0333 |
| 9 | 20 | Unbiased | 3.1215 | 3.4363 | 0.3148 |
| 10 | 20 | Unbiased | 3.2348 | 3.2815 | 0.0467 |
| 11 | 30 | Bias | 3.4202 | 3.0701 | -0.3501 |
| 12 | 30 | Bias | 2.852 | 3.1346 | 0.2826 |
| 13 | 30 | Bias | 3.219 | 3.4745 | 0.2555 |
| 14 | 30 | Bias | 3.3621 | 3.0673 | -0.2948 |
| 15 | 30 | Bias | 3.1874 | 3.1899 | 0.0025 |
| 16 | 30 | Unbiased | 3.1564 | 3.0781 | -0.0783 |
| 17 | 30 | Unbiased | 3.1338 | 3.2589 | 0.1251 |
| 18 | 30 | Unbiased | 3.1826 | 2.9951 | -0.1875 |
| 19 | 30 | Unbiased | 3.4635 | 3.3063 | -0.1572 |
| 20 | 30 | Unbiased | 3.16 | 3.2625 | 0.1025 |
| 21 | 50 | Bias | 3.1913 | 3.0749 | -0.1164 |
| 22 | 50 | Bias | 3.4523 | 3.2205 | -0.2318 |
| 23 | 50 | Bias | 3.193 | 3.256 | 0.063 |
| 24 | 50 | Bias | 3.3455 | 3.0281 | -0.3174 |
| 25 | 50 | Bias | 3.1635 | 3.0554 | -0.1081 |
| 26 | 50 | Unbiased | 3.2048 | 3.1048 | -0.1 |
| 27 | 50 | Unbiased | 3.2439 | 3.2789 | 0.035 |
| 28 | 50 | Unbiased | 3.2367 | 3.1855 | -0.0512 |
| 29 | 50 | Unbiased | 3.2481 | 3.0572 | -0.1909 |
| 30 | 50 | Unbiased | 3.4052 | 3.3111 | -0.0941 |
| 31 | 0 | Correlation | 3.3269 | 3.164 | -0.1629 |
| 32 | 0 | Correlation | 3.2164 | 3.2723 | 0.0559 |
| 33 | 0 | Correlation | 3.1394 | 3.0181 | -0.1213 |
| 34 | 0 | Correlation | 3.3519 | 3.1272 | -0.2247 |

## Test Statistics (uSec)
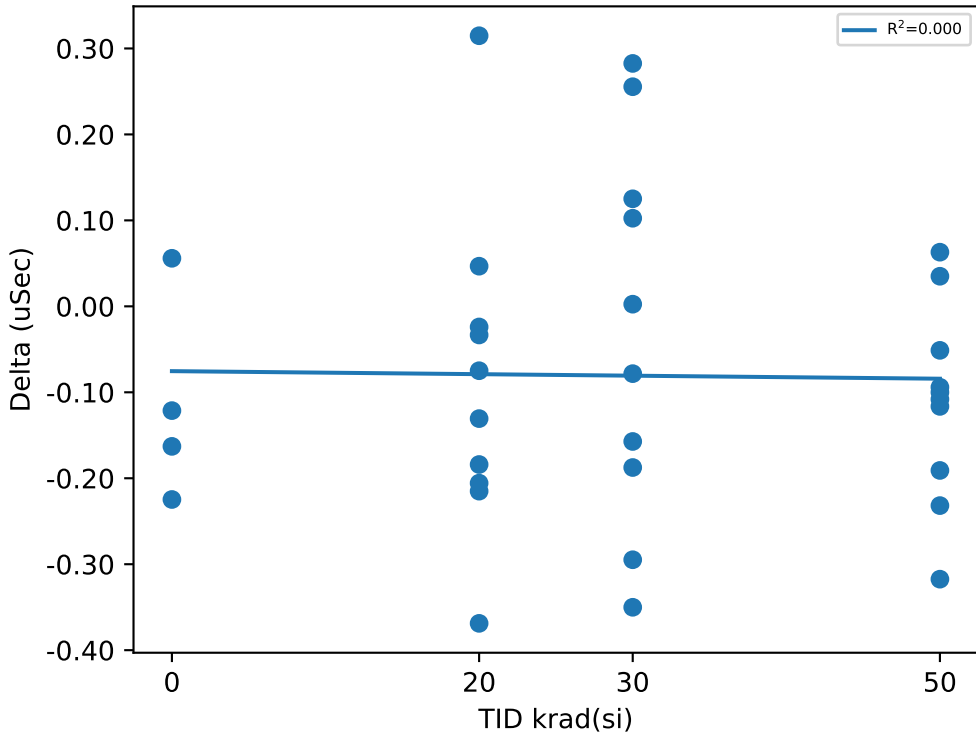
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.1394 | 3.2587 | 3.3519 | 0.098926 | 3.0181 | 3.1454 | 3.2723 | 0.10486 | -0.2247 | -0.11325 | 0.0559 | 0.1205 |
| 20 | 3.0244 | 3.2992 | 3.452 | 0.13451 | 2.9495 | 3.2117 | 3.4363 | 0.15784 | -0.3688 | -0.08748 | 0.3148 | 0.18485 |
| 30 | 2.852 | 3.2137 | 3.4635 | 0.17389 | 2.9951 | 3.1837 | 3.4745 | 0.14418 | -0.3501 | -0.02997 | 0.2826 | 0.22055 |
| 50 | 3.1635 | 3.2684 | 3.4523 | 0.098417 | 3.0281 | 3.1572 | 3.3111 | 0.10521 | -0.3174 | -0.11119 | 0.063 | 0.11508 |
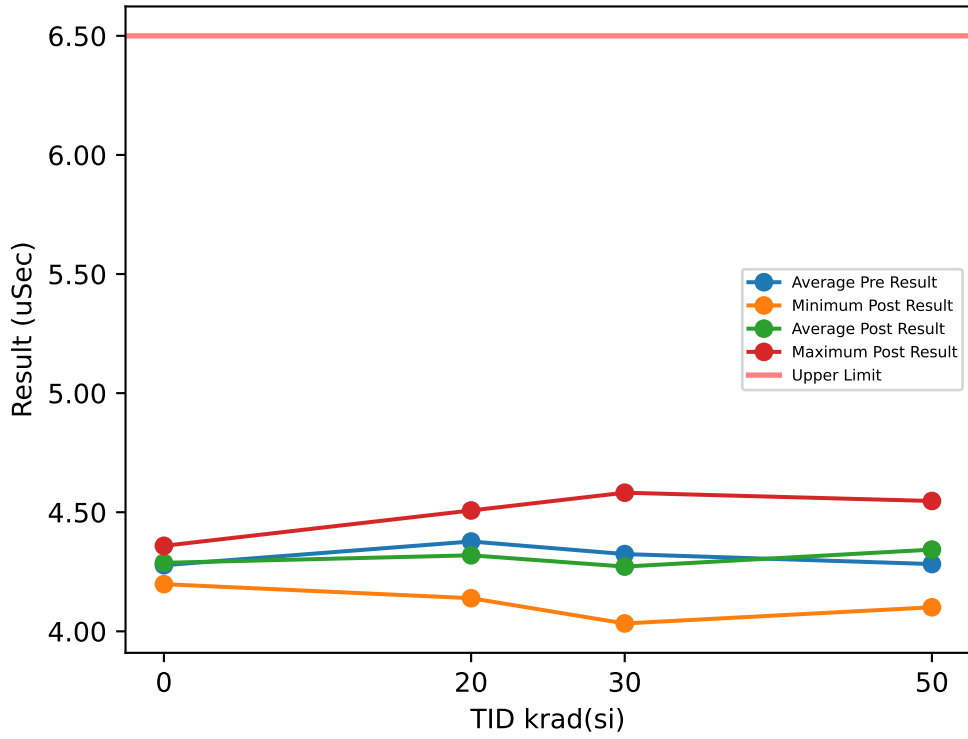
# Device Test: 17.29  TPD_SEQ_DONE(_DELAY|STEP_UP/SEQ_DONE/7/3/0/0/0/@TPD_SEQ_DONE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

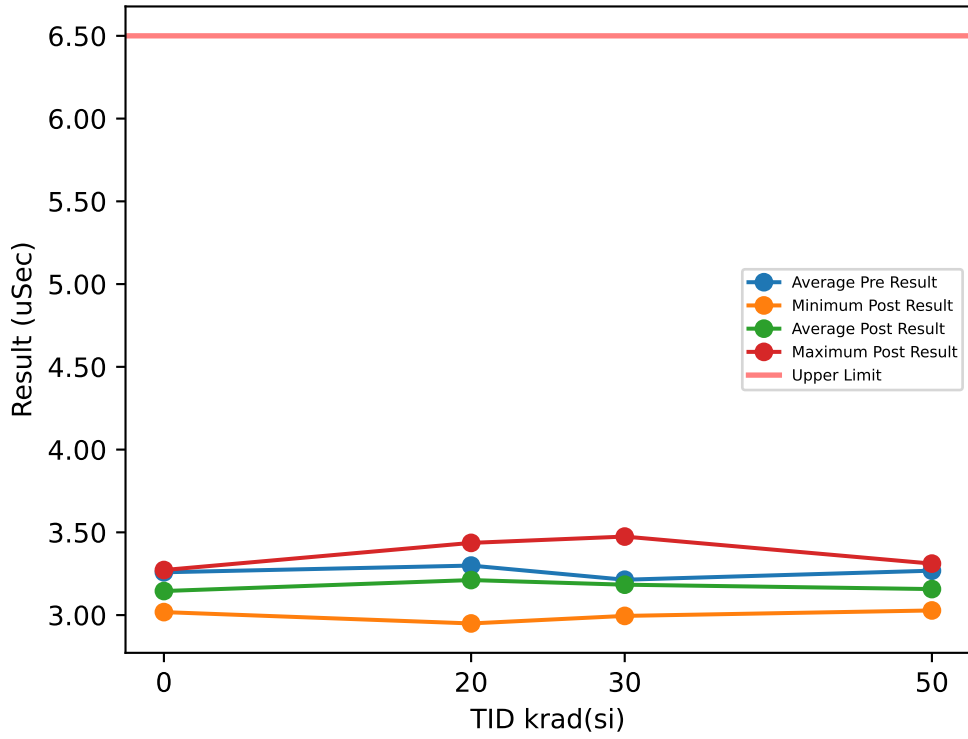| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 4.2759 | 4.4512 | 0.1753 |
| 2 | 20 | Bias | 4.4314 | 4.353 | -0.0784 |
| 3 | 20 | Bias | 4.4936 | 4.4527 | -0.0409 |
| 4 | 20 | Bias | 4.7432 | 4.5074 | -0.2358 |
| 5 | 20 | Bias | 4.4289 | 4.265 | -0.1639 |
| 6 | 20 | Unbiased | 4.1407 | 4.1429 | 0.0022 |
| 7 | 20 | Unbiased | 4.2753 | 4.1391 | -0.1362 |
| 8 | 20 | Unbiased | 4.4528 | 4.2791 | -0.1737 |
| 9 | 20 | Unbiased | 4.1795 | 4.2829 | 0.1034 |
| 10 | 20 | Unbiased | 4.3507 | 4.319 | -0.0317 |
| 11 | 30 | Bias | 4.2553 | 4.09 | -0.1653 |
| 12 | 30 | Bias | 4.293 | 4.247 | -0.046 |
| 13 | 30 | Bias | 4.4682 | 4.0331 | -0.4351 |
| 14 | 30 | Bias | 4.1198 | 4.5496 | 0.4298 |
| 15 | 30 | Bias | 4.0317 | 4.582 | 0.5503 |
| 16 | 30 | Unbiased | 4.2955 | 4.3152 | 0.0197 |
| 17 | 30 | Unbiased | 4.4436 | 4.437 | -0.0066 |
| 18 | 30 | Unbiased | 4.5925 | 4.0536 | -0.5389 |
| 19 | 30 | Unbiased | 4.5545 | 4.3288 | -0.2257 |
| 20 | 30 | Unbiased | 4.1894 | 4.0824 | -0.107 |
| 21 | 50 | Bias | 4.3519 | 4.3753 | 0.0234 |
| 22 | 50 | Bias | 4.1554 | 4.394 | 0.2386 |
| 23 | 50 | Bias | 4.2975 | 4.4645 | 0.167 |
| 24 | 50 | Bias | 4.1429 | 4.2819 | 0.139 |
| 25 | 50 | Bias | 4.446 | 4.5472 | 0.1012 |
| 26 | 50 | Unbiased | 4.1506 | 4.3546 | 0.204 |
| 27 | 50 | Unbiased | 4.2925 | 4.3731 | 0.0806 |
| 28 | 50 | Unbiased | 4.1777 | 4.101 | -0.0767 |
| 29 | 50 | Unbiased | 4.4662 | 4.3858 | -0.0804 |
| 30 | 50 | Unbiased | 4.3438 | 4.1544 | -0.1894 |
| 31 | 0 | Correlation | 4.2442 | 4.359 | 0.1148 |
| 32 | 0 | Correlation | 4.3115 | 4.3097 | -0.0018 |
| 33 | 0 | Correlation | 4.3592 | 4.2838 | -0.0754 |
| 34 | 0 | Correlation | 4.1958 | 4.1981 | 0.0023 |

## Test Statistics (uSec)
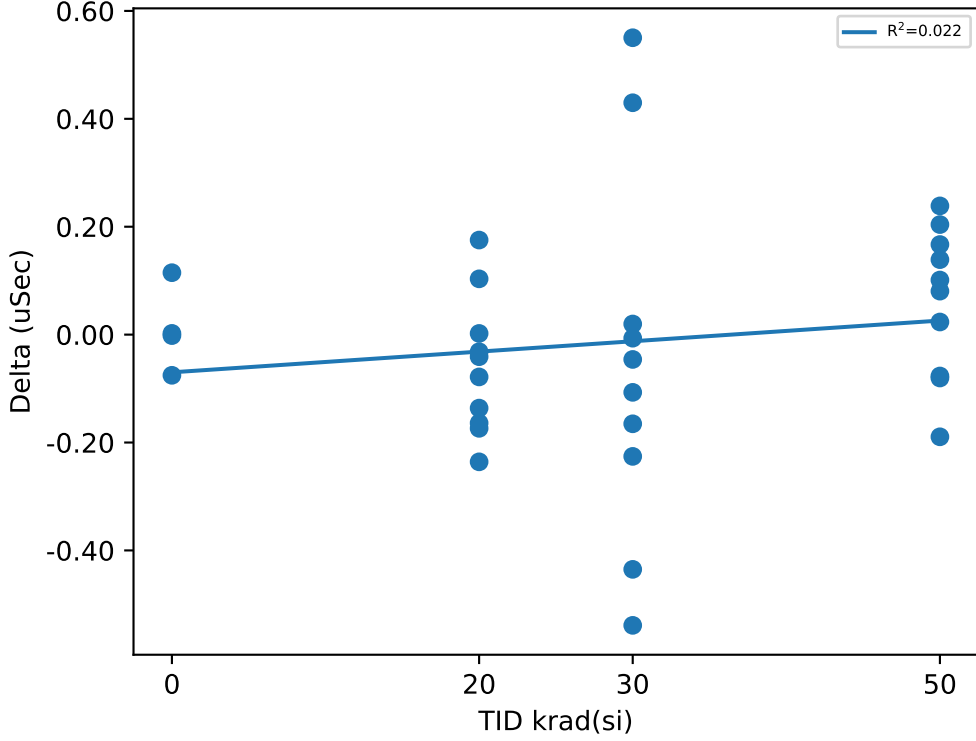
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 4.1958 | 4.2777 | 4.3592 | 0.072145 | 4.1981 | 4.2877 | 4.359 | 0.067357 | -0.0754 | 0.009975 | 0.1148 | 0.078474 |
| 20 | 4.1407 | 4.3772 | 4.7432 | 0.17486 | 4.1391 | 4.3192 | 4.5074 | 0.12525 | -0.2358 | -0.05797 | 0.1753 | 0.12816 |
| 30 | 4.0317 | 4.3243 | 4.5925 | 0.18621 | 4.0331 | 4.2719 | 4.582 | 0.20547 | -0.5389 | -0.05248 | 0.5503 | 0.33863 |
| 50 | 4.1429 | 4.2824 | 4.4662 | 0.12175 | 4.101 | 4.3432 | 4.5472 | 0.13368 | -0.1894 | 0.06073 | 0.2386 | 0.1392 |
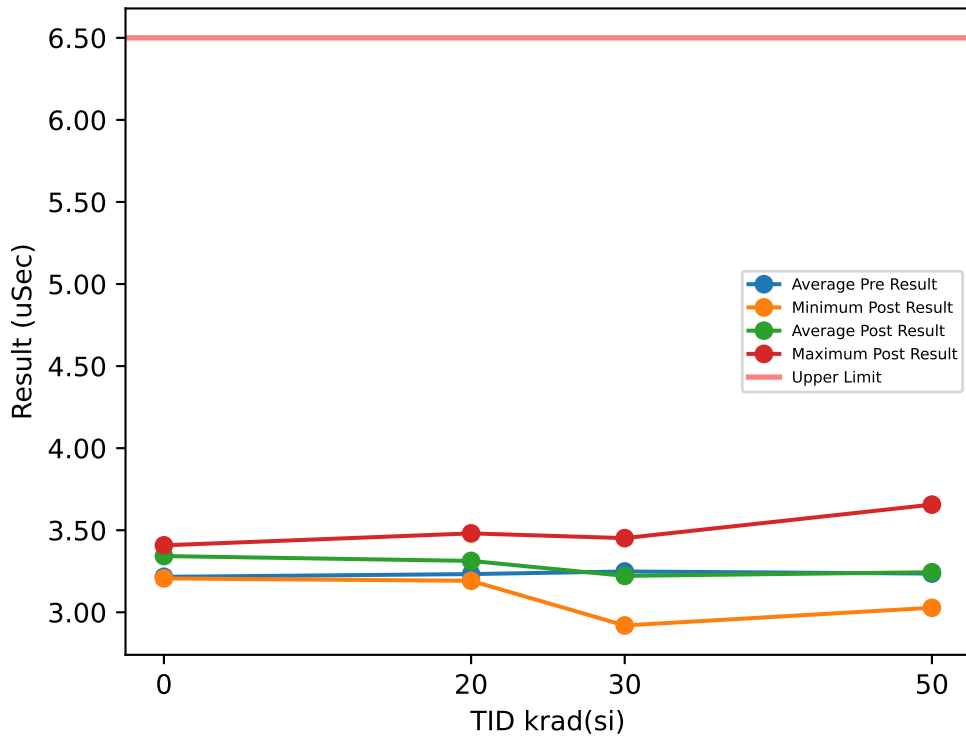
# Device Test: 17.3   TPD_EN(_DELAY|STEP_UP/EN3/1.6/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.1676 | 3.3541 | 0.1865 |
| 2 | 20 | Bias | 3.3469 | 3.4297 | 0.0828 |
| 3 | 20 | Bias | 3.2314 | 3.1966 | -0.0348 |
| 4 | 20 | Bias | 3.283 | 3.2637 | -0.0193 |
| 5 | 20 | Bias | 3.1989 | 3.1919 | -0.007 |
| 6 | 20 | Unbiased | 3.0655 | 3.2154 | 0.1499 |
| 7 | 20 | Unbiased | 3.2167 | 3.2759 | 0.0592 |
| 8 | 20 | Unbiased | 3.3324 | 3.3536 | 0.0212 |
| 9 | 20 | Unbiased | 3.145 | 3.4808 | 0.3358 |
| 10 | 20 | Unbiased | 3.3408 | 3.3689 | 0.0281 |
| 11 | 30 | Bias | 3.326 | 2.9604 | -0.3656 |
| 12 | 30 | Bias | 3.2004 | 3.3688 | 0.1684 |
| 13 | 30 | Bias | 3.3061 | 3.3272 | 0.0211 |
| 14 | 30 | Bias | 3.3894 | 3.2824 | -0.107 |
| 15 | 30 | Bias | 3.2386 | 3.2458 | 0.0072 |
| 16 | 30 | Unbiased | 3.4328 | 3.1293 | -0.3035 |
| 17 | 30 | Unbiased | 3.034 | 3.4519 | 0.4179 |
| 18 | 30 | Unbiased | 3.2932 | 2.9198 | -0.3734 |
| 19 | 30 | Unbiased | 3.1157 | 3.2227 | 0.107 |
| 20 | 30 | Unbiased | 3.1511 | 3.3097 | 0.1586 |
| 21 | 50 | Bias | 3.3035 | 3.656 | 0.3525 |
| 22 | 50 | Bias | 3.2397 | 3.2326 | -0.0071 |
| 23 | 50 | Bias | 3.4195 | 3.1634 | -0.2561 |
| 24 | 50 | Bias | 3.1436 | 3.0276 | -0.116 |
| 25 | 50 | Bias | 3.1963 | 3.2231 | 0.0268 |
| 26 | 50 | Unbiased | 3.1913 | 3.1092 | -0.0821 |
| 27 | 50 | Unbiased | 3.2387 | 3.2464 | 0.0077 |
| 28 | 50 | Unbiased | 3.2755 | 3.4748 | 0.1993 |
| 29 | 50 | Unbiased | 3.3512 | 3.21 | -0.1412 |
| 30 | 50 | Unbiased | 2.9993 | 3.0989 | 0.0996 |
| 31 | 0 | Correlation | 3.0964 | 3.3907 | 0.2943 |
| 32 | 0 | Correlation | 3.2458 | 3.3653 | 0.1195 |
| 33 | 0 | Correlation | 3.1346 | 3.408 | 0.2734 |
| 34 | 0 | Correlation | 3.3877 | 3.2065 | -0.1812 |

## Test Statistics (uSec)
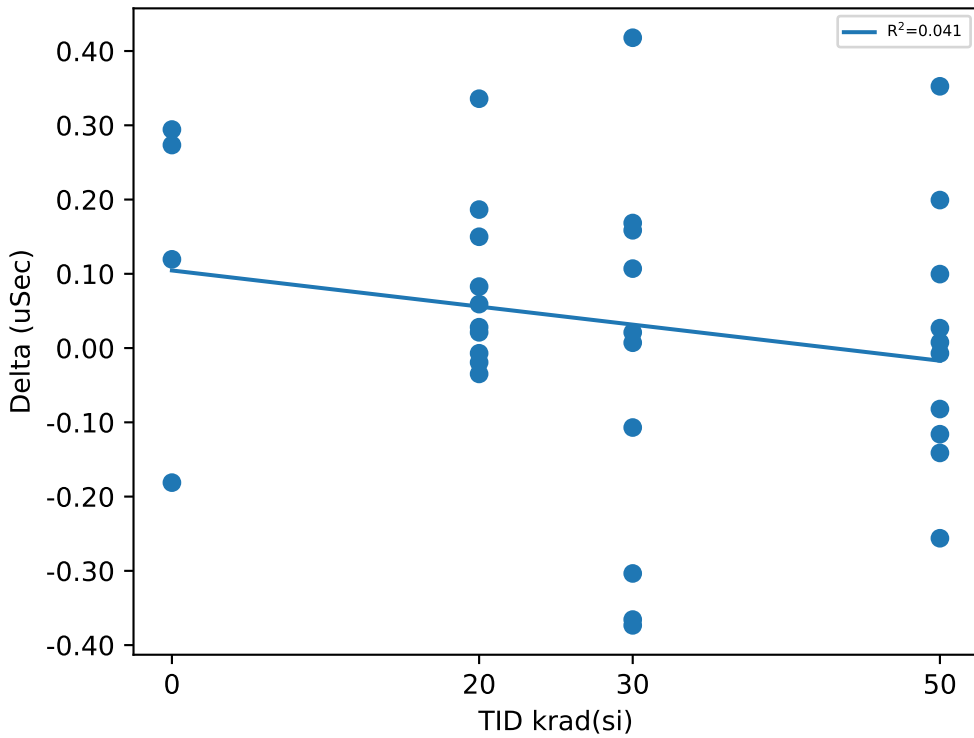
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0964 | 3.2161 | 3.3877 | 0.13077 | 3.2065 | 3.3426 | 3.408 | 0.092429 | -0.1812 | 0.1265 | 0.2943 | 0.21944 |
| 20 | 3.0655 | 3.2328 | 3.3469 | 0.093382 | 3.1919 | 3.3131 | 3.4808 | 0.09988 | -0.0348 | 0.08024 | 0.3358 | 0.11492 |
| 30 | 3.034 | 3.2487 | 3.4328 | 0.12503 | 2.9198 | 3.2218 | 3.4519 | 0.17183 | -0.3734 | -0.02693 | 0.4179 | 0.26023 |
| 50 | 2.9993 | 3.2359 | 3.4195 | 0.11606 | 3.0276 | 3.2442 | 3.656 | 0.18776 | -0.2561 | 0.00834 | 0.3525 | 0.1763 |
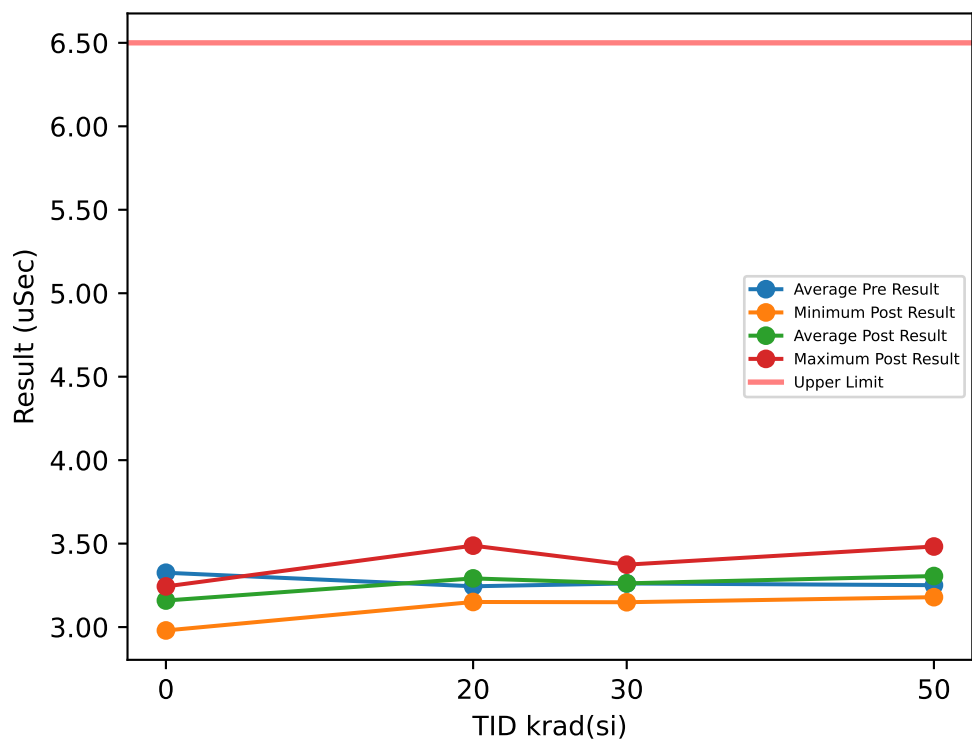
# Device Test: 17.30  TPD_PWRGD(_DELAY|STEP_UP/PWRGD/7/3/0/0/0/@TPD_PWRGD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.3085 | 3.1504 | -0.1581 |
| 2 | 20 | Bias | 3.3168 | 3.4879 | 0.1711 |
| 3 | 20 | Bias | 3.455 | 3.3887 | -0.0663 |
| 4 | 20 | Bias | 3.2078 | 3.2634 | 0.0556 |
| 5 | 20 | Bias | 3.0718 | 3.3871 | 0.3153 |
| 6 | 20 | Unbiased | 3.2709 | 3.1915 | -0.0794 |
| 7 | 20 | Unbiased | 3.117 | 3.3305 | 0.2135 |
| 8 | 20 | Unbiased | 3.1444 | 3.1545 | 0.0101 |
| 9 | 20 | Unbiased | 3.2889 | 3.3789 | 0.09 |
| 10 | 20 | Unbiased | 3.2631 | 3.1834 | -0.0797 |
| 11 | 30 | Bias | 3.1968 | 3.2007 | 0.0039 |
| 12 | 30 | Bias | 3.1255 | 3.3699 | 0.2444 |
| 13 | 30 | Bias | 3.2364 | 3.1612 | -0.0752 |
| 14 | 30 | Bias | 3.1111 | 3.3297 | 0.2186 |
| 15 | 30 | Bias | 3.4623 | 3.2725 | -0.1898 |
| 16 | 30 | Unbiased | 3.3475 | 3.1703 | -0.1772 |
| 17 | 30 | Unbiased | 3.0883 | 3.2195 | 0.1312 |
| 18 | 30 | Unbiased | 3.3848 | 3.3731 | -0.0117 |
| 19 | 30 | Unbiased | 3.1792 | 3.1489 | -0.0303 |
| 20 | 30 | Unbiased | 3.481 | 3.3739 | -0.1071 |
| 21 | 50 | Bias | 3.2345 | 3.3553 | 0.1208 |
| 22 | 50 | Bias | 3.3492 | 3.358 | 0.0088 |
| 23 | 50 | Bias | 3.2519 | 3.4827 | 0.2308 |
| 24 | 50 | Bias | 3.058 | 3.1792 | 0.1212 |
| 25 | 50 | Bias | 3.2392 | 3.4397 | 0.2005 |
| 26 | 50 | Unbiased | 3.4112 | 3.2555 | -0.1557 |
| 27 | 50 | Unbiased | 3.1867 | 3.228 | 0.0413 |
| 28 | 50 | Unbiased | 3.2226 | 3.2561 | 0.0335 |
| 29 | 50 | Unbiased | 3.2314 | 3.1945 | -0.0369 |
| 30 | 50 | Unbiased | 3.3258 | 3.3086 | -0.0172 |
| 31 | 0 | Correlation | 3.382 | 3.1842 | -0.1978 |
| 32 | 0 | Correlation | 3.4635 | 3.2436 | -0.2199 |
| 33 | 0 | Correlation | 3.1429 | 3.2285 | 0.0856 |
| 34 | 0 | Correlation | 3.3137 | 2.9798 | -0.3339 |

## Test Statistics (uSec)
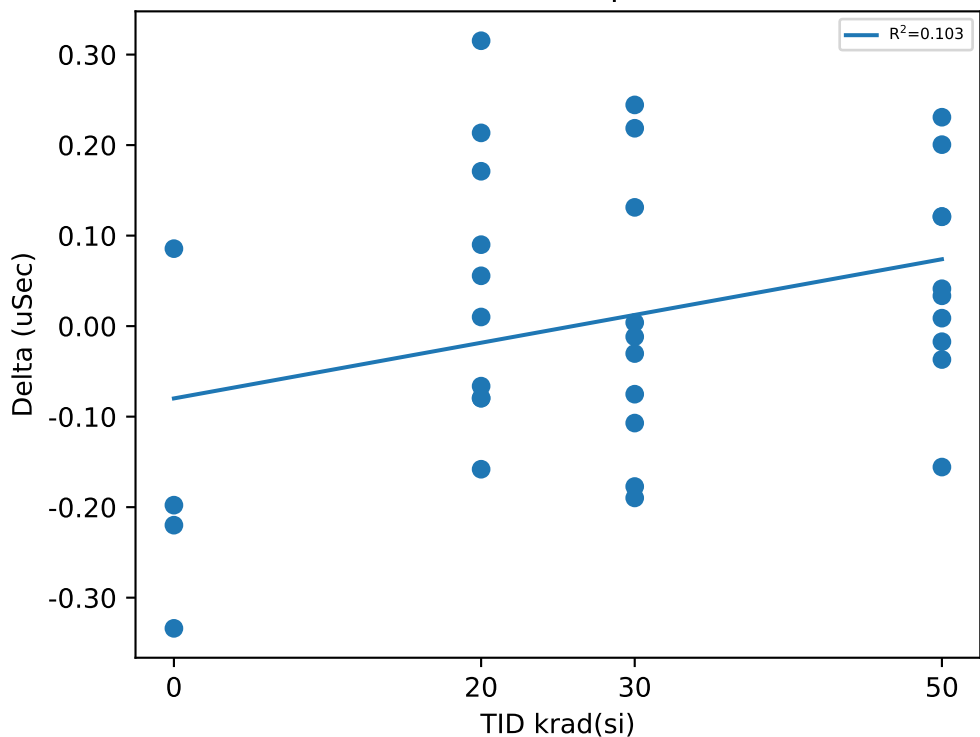
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.1429 | 3.3255 | 3.4635 | 0.13628 | 2.9798 | 3.159 | 3.2436 | 0.12211 | -0.3339 | -0.1665 | 0.0856 | 0.17833 |
| 20 | 3.0718 | 3.2444 | 3.455 | 0.11259 | 3.1504 | 3.2916 | 3.4879 | 0.11901 | -0.1581 | 0.04721 | 0.3153 | 0.15104 |
| 30 | 3.0883 | 3.2613 | 3.481 | 0.14674 | 3.1489 | 3.262 | 3.3739 | 0.09317 | -0.1898 | 0.00068 | 0.2444 | 0.15288 |
| 50 | 3.058 | 3.2511 | 3.4112 | 0.096545 | 3.1792 | 3.3058 | 3.4827 | 0.10213 | -0.1557 | 0.05471 | 0.2308 | 0.11625 |

# Device Test: 17.31  TPD_EN(_DELAY|STEP_DOWN/EN1/7/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.1865 | 3.1269 | -0.0596 |
| 2 | 20 | Bias | 3.1469 | 3.2954 | 0.1485 |
| 3 | 20 | Bias | 3.4283 | 3.179 | -0.2493 |
| 4 | 20 | Bias | 3.2156 | 3.2223 | 0.0067 |
| 5 | 20 | Bias | 3.2995 | 3.1647 | -0.1348 |
| 6 | 20 | Unbiased | 3.3888 | 3.3496 | -0.0392 |
| 7 | 20 | Unbiased | 3.3976 | 3.3367 | -0.0609 |
| 8 | 20 | Unbiased | 3.2348 | 3.1745 | -0.0603 |
| 9 | 20 | Unbiased | 3.2413 | 3.1916 | -0.0497 |
| 10 | 20 | Unbiased | 3.2642 | 3.387 | 0.1228 |
| 11 | 30 | Bias | 3.1851 | 3.2617 | 0.0766 |
| 12 | 30 | Bias | 3.0345 | 3.219 | 0.1845 |
| 13 | 30 | Bias | 3.0601 | 3.1116 | 0.0515 |
| 14 | 30 | Bias | 3.1014 | 3.1209 | 0.0195 |
| 15 | 30 | Bias | 3.2288 | 3.3157 | 0.0869 |
| 16 | 30 | Unbiased | 3.2843 | 3.2853 | 0.001 |
| 17 | 30 | Unbiased | 3.3151 | 3.1389 | -0.1762 |
| 18 | 30 | Unbiased | 3.1973 | 3.228 | 0.0307 |
| 19 | 30 | Unbiased | 3.2725 | 3.3401 | 0.0676 |
| 20 | 30 | Unbiased | 3.1336 | 3.2163 | 0.0827 |
| 21 | 50 | Bias | 3.1709 | 3.0796 | -0.0913 |
| 22 | 50 | Bias | 3.3143 | 3.3376 | 0.0233 |
| 23 | 50 | Bias | 3.1821 | 3.4405 | 0.2584 |
| 24 | 50 | Bias | 3.3374 | 3.2594 | -0.078 |
| 25 | 50 | Bias | 3.1855 | 3.4073 | 0.2218 |
| 26 | 50 | Unbiased | 3.1341 | 3.1803 | 0.0462 |
| 27 | 50 | Unbiased | 3.4276 | 3.0118 | -0.4158 |
| 28 | 50 | Unbiased | 3.0324 | 3.3134 | 0.281 |
| 29 | 50 | Unbiased | 3.1813 | 3.1892 | 0.0079 |
| 30 | 50 | Unbiased | 3.1403 | 3.1757 | 0.0354 |
| 31 | 0 | Correlation | 3.0292 | 3.3367 | 0.3075 |
| 32 | 0 | Correlation | 3.2358 | 3.0971 | -0.1387 |
| 33 | 0 | Correlation | 3.0293 | 3.1093 | 0.08 |
| 34 | 0 | Correlation | 3.3283 | 3.255 | -0.0733 |

## Test Statistics (uSec)
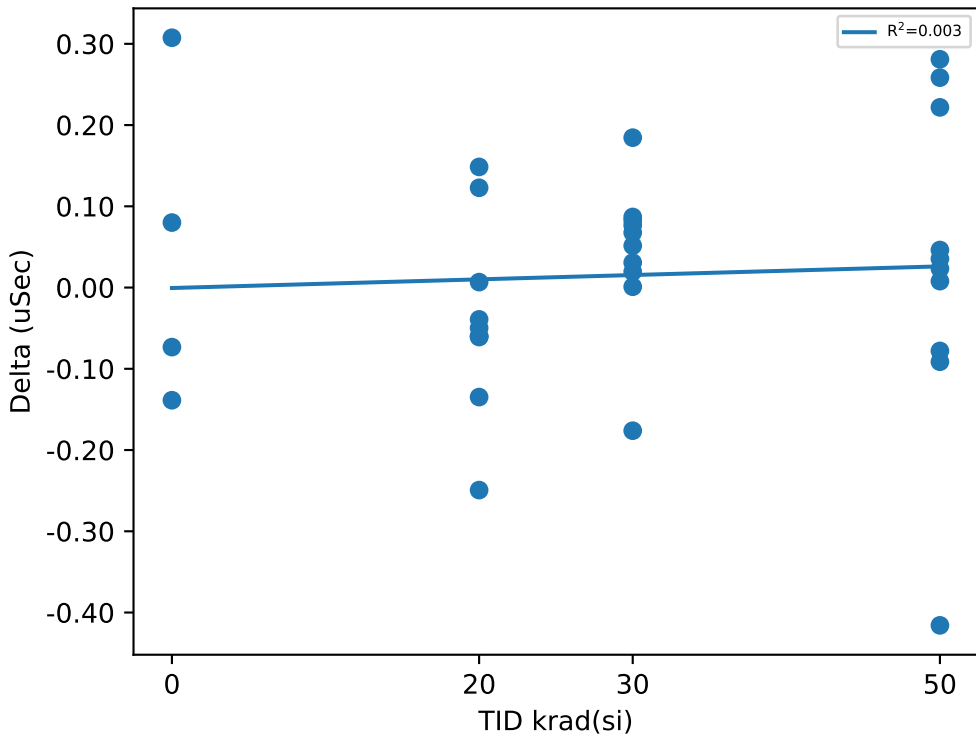
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0292 | 3.1557 | 3.3283 | 0.15076 | 3.0971 | 3.1995 | 3.3367 | 0.11623 | -0.1387 | 0.043875 | 0.3075 | 0.19821 |
| 20 | 3.1469 | 3.2803 | 3.4283 | 0.095705 | 3.1269 | 3.2428 | 3.387 | 0.091344 | -0.2493 | -0.03758 | 0.1485 | 0.11464 |
| 30 | 3.0345 | 3.1813 | 3.3151 | 0.096755 | 3.1116 | 3.2237 | 3.3401 | 0.08005 | -0.1762 | 0.04248 | 0.1845 | 0.0918 |
| 50 | 3.0324 | 3.2106 | 3.4276 | 0.11564 | 3.0118 | 3.2395 | 3.4405 | 0.13807 | -0.4158 | 0.02889 | 0.281 | 0.20491 |

# Device Test: 17.32  TPD_EN(_DELAY|STEP_DOWN/EN2/7/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

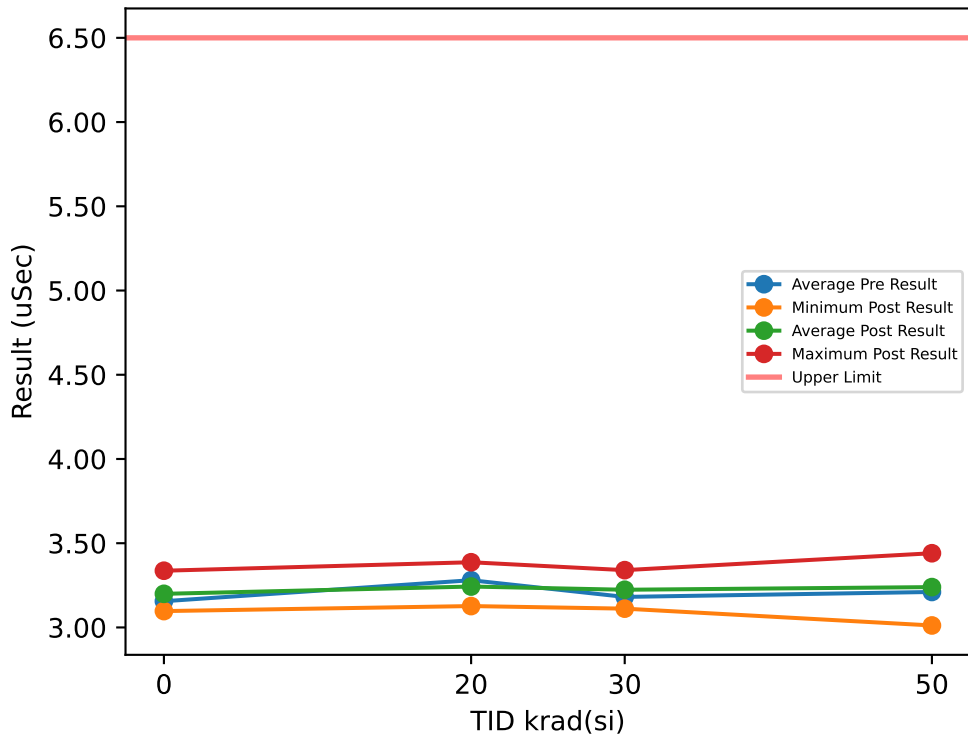| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.4735 | 3.5294 | 0.0559 |
| 2 | 20 | Bias | 3.2845 | 3.4434 | 0.1589 |
| 3 | 20 | Bias | 3.4475 | 3.2968 | -0.1507 |
| 4 | 20 | Bias | 3.3196 | 3.3962 | 0.0766 |
| 5 | 20 | Bias | 3.5241 | 3.2915 | -0.2326 |
| 6 | 20 | Unbiased | 3.3536 | 3.661 | 0.3074 |
| 7 | 20 | Unbiased | 3.3151 | 3.4323 | 0.1172 |
| 8 | 20 | Unbiased | 3.4071 | 3.3946 | -0.0125 |
| 9 | 20 | Unbiased | 3.272 | 3.4241 | 0.1521 |
| 10 | 20 | Unbiased | 3.3173 | 3.1531 | -0.1642 |
| 11 | 30 | Bias | 3.4373 | 3.4652 | 0.0279 |
| 12 | 30 | Bias | 3.3487 | 3.4455 | 0.0968 |
| 13 | 30 | Bias | 3.4548 | 3.5956 | 0.1408 |
| 14 | 30 | Bias | 3.2104 | 3.6076 | 0.3972 |
| 15 | 30 | Bias | 3.2512 | 3.504 | 0.2528 |
| 16 | 30 | Unbiased | 3.0735 | 3.5184 | 0.4449 |
| 17 | 30 | Unbiased | 3.6866 | 3.3544 | -0.3322 |
| 18 | 30 | Unbiased | 3.2302 | 3.2695 | 0.0393 |
| 19 | 30 | Unbiased | 3.4389 | 3.3054 | -0.1335 |
| 20 | 30 | Unbiased | 3.2519 | 3.5927 | 0.3408 |
| 21 | 50 | Bias | 3.5514 | 3.5727 | 0.0213 |
| 22 | 50 | Bias | 3.4801 | 3.3811 | -0.099 |
| 23 | 50 | Bias | 3.3501 | 3.414 | 0.0639 |
| 24 | 50 | Bias | 3.3903 | 3.2483 | -0.142 |
| 25 | 50 | Bias | 3.2801 | 3.3303 | 0.0502 |
| 26 | 50 | Unbiased | 3.4826 | 3.3618 | -0.1208 |
| 27 | 50 | Unbiased | 3.2887 | 3.4972 | 0.2085 |
| 28 | 50 | Unbiased | 3.4626 | 3.1443 | -0.3183 |
| 29 | 50 | Unbiased | 3.3323 | 3.1901 | -0.1422 |
| 30 | 50 | Unbiased | 3.3676 | 3.2806 | -0.087 |
| 31 | 0 | Correlation | 3.2448 | 3.2576 | 0.0128 |
| 32 | 0 | Correlation | 3.4804 | 3.56 | 0.0796 |
| 33 | 0 | Correlation | 3.491 | 3.1472 | -0.3438 |
| 34 | 0 | Correlation | 3.2924 | 3.534 | 0.2416 |

## Test Statistics (uSec)
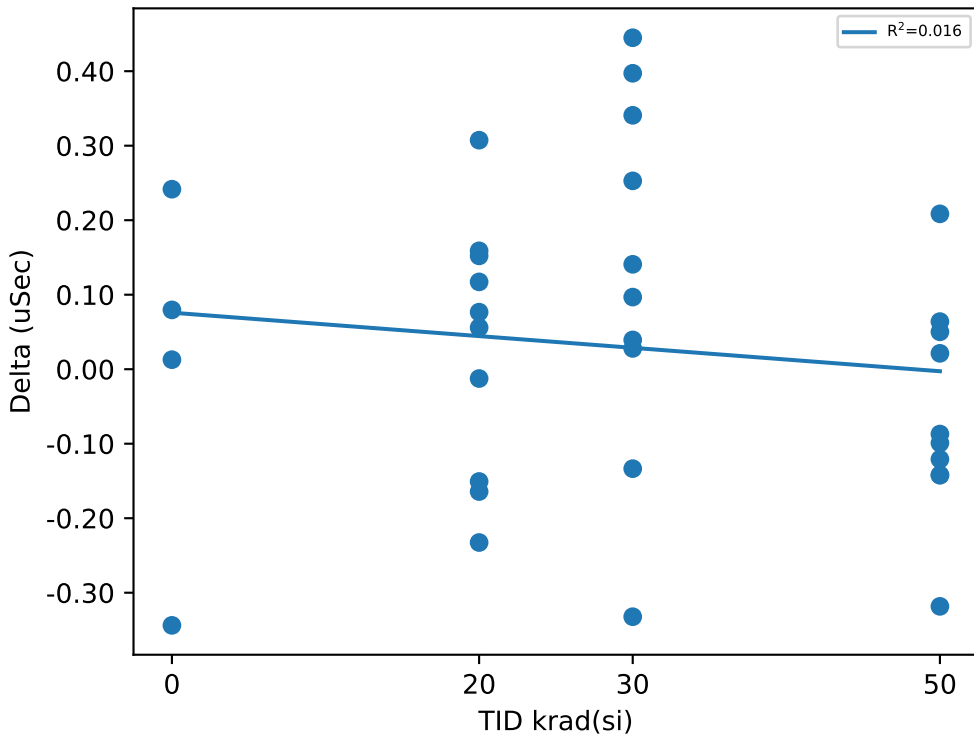
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.2448 | 3.3772 | 3.491 | 0.12691 | 3.1472 | 3.3747 | 3.56 | 0.20427 | -0.3438 | -0.00245 | 0.2416 | 0.24701 |
| 20 | 3.272 | 3.3714 | 3.5241 | 0.086497 | 3.1531 | 3.4022 | 3.661 | 0.13814 | -0.2326 | 0.03081 | 0.3074 | 0.16998 |
| 30 | 3.0735 | 3.3383 | 3.6866 | 0.1726 | 3.2695 | 3.4658 | 3.6076 | 0.12219 | -0.3322 | 0.12748 | 0.4449 | 0.24334 |
| 50 | 3.2801 | 3.3986 | 3.5514 | 0.091312 | 3.1443 | 3.342 | 3.5727 | 0.13302 | -0.3183 | -0.05654 | 0.2085 | 0.14614 |

# Device Test: 17.33  TPD_EN(_DELAY|STEP_DOWN/EN3/7/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

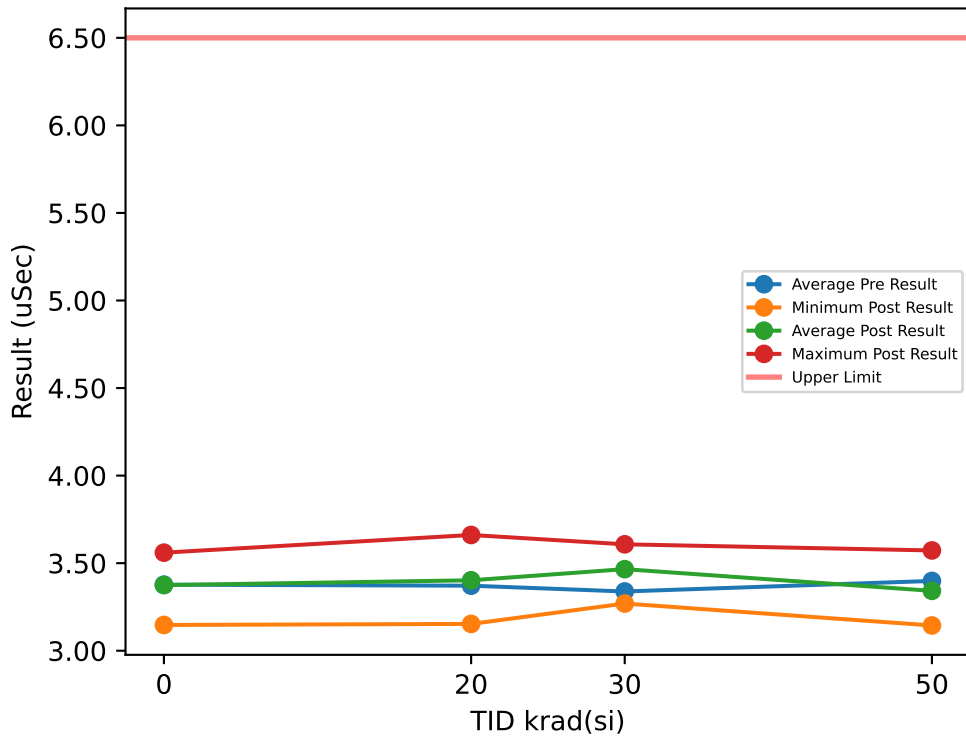| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.3453 | 3.4801 | 0.1348 |
| 2 | 20 | Bias | 3.3246 | 3.0494 | -0.2752 |
| 3 | 20 | Bias | 3.3634 | 3.5126 | 0.1492 |
| 4 | 20 | Bias | 3.4781 | 3.2915 | -0.1866 |
| 5 | 20 | Bias | 3.4139 | 3.3527 | -0.0612 |
| 6 | 20 | Unbiased | 3.2098 | 3.4161 | 0.2063 |
| 7 | 20 | Unbiased | 3.2808 | 3.4257 | 0.1449 |
| 8 | 20 | Unbiased | 3.1324 | 3.6147 | 0.4823 |
| 9 | 20 | Unbiased | 3.3257 | 3.2764 | -0.0493 |
| 10 | 20 | Unbiased | 3.3925 | 3.4726 | 0.0801 |
| 11 | 30 | Bias | 3.169 | 3.4673 | 0.2983 |
| 12 | 30 | Bias | 3.4251 | 3.3571 | -0.068 |
| 13 | 30 | Bias | 3.4562 | 3.1908 | -0.2654 |
| 14 | 30 | Bias | 3.5855 | 3.4512 | -0.1343 |
| 15 | 30 | Bias | 3.3505 | 3.3391 | -0.0114 |
| 16 | 30 | Unbiased | 3.3226 | 3.4019 | 0.0793 |
| 17 | 30 | Unbiased | 3.6246 | 3.5233 | -0.1013 |
| 18 | 30 | Unbiased | 3.4103 | 3.2443 | -0.166 |
| 19 | 30 | Unbiased | 3.2849 | 3.316 | 0.0311 |
| 20 | 30 | Unbiased | 3.6251 | 3.1702 | -0.4549 |
| 21 | 50 | Bias | 3.455 | 3.2955 | -0.1595 |
| 22 | 50 | Bias | 3.2593 | 3.2975 | 0.0382 |
| 23 | 50 | Bias | 3.5643 | 3.5964 | 0.0321 |
| 24 | 50 | Bias | 3.2981 | 3.3426 | 0.0445 |
| 25 | 50 | Bias | 3.3367 | 3.4199 | 0.0832 |
| 26 | 50 | Unbiased | 3.4336 | 3.3828 | -0.0508 |
| 27 | 50 | Unbiased | 3.355 | 3.5651 | 0.2101 |
| 28 | 50 | Unbiased | 3.4241 | 3.4204 | -0.0037 |
| 29 | 50 | Unbiased | 3.5094 | 3.5046 | -0.0048 |
| 30 | 50 | Unbiased | 3.3151 | 3.266 | -0.0491 |
| 31 | 0 | Correlation | 3.382 | 3.2796 | -0.1024 |
| 32 | 0 | Correlation | 3.4736 | 3.354 | -0.1196 |
| 33 | 0 | Correlation | 3.1459 | 3.5134 | 0.3675 |
| 34 | 0 | Correlation | 3.2954 | 3.3847 | 0.0893 |

## Test Statistics (uSec)
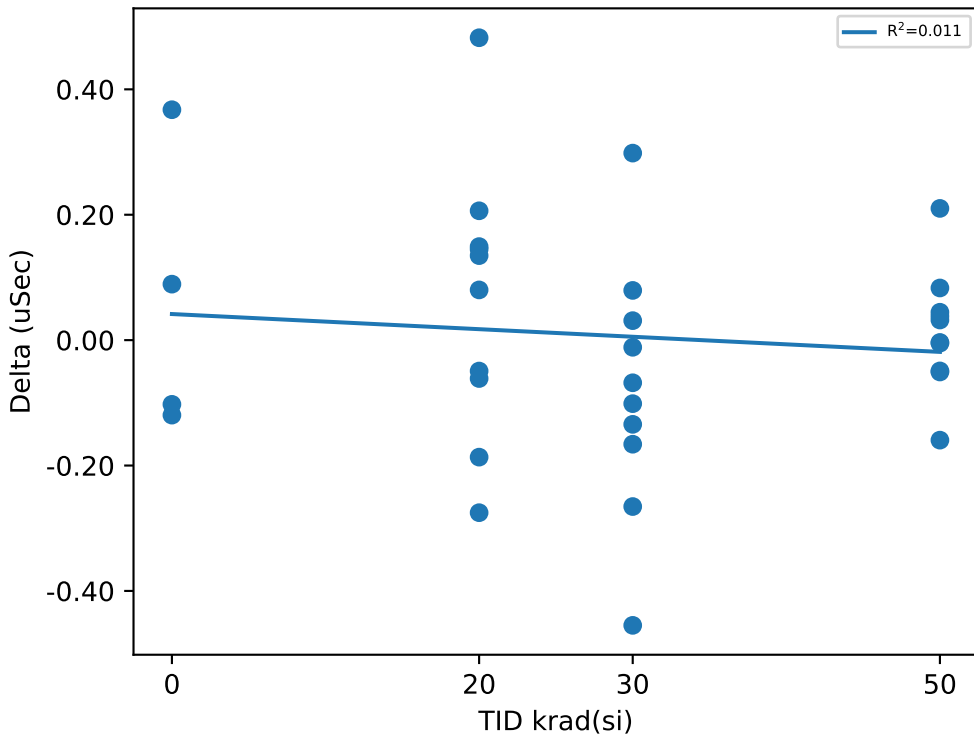
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.1459 | 3.3242 | 3.4736 | 0.13938 | 3.2796 | 3.3829 | 3.5134 | 0.097536 | -0.1196 | 0.0587 | 0.3675 | 0.2266 |
| 20 | 3.1324 | 3.3266 | 3.4781 | 0.10004 | 3.0494 | 3.3892 | 3.6147 | 0.1572 | -0.2752 | 0.06253 | 0.4823 | 0.21619 |
| 30 | 3.169 | 3.4254 | 3.6251 | 0.15203 | 3.1702 | 3.3461 | 3.5233 | 0.11867 | -0.4549 | -0.07926 | 0.2983 | 0.20314 |
| 50 | 3.2593 | 3.3951 | 3.5643 | 0.098248 | 3.266 | 3.4091 | 3.5964 | 0.11534 | -0.1595 | 0.01402 | 0.2101 | 0.09663 |

# Device Test: 17.34  TPD_EN(_DELAY|STEP_DOWN/EN4/7/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

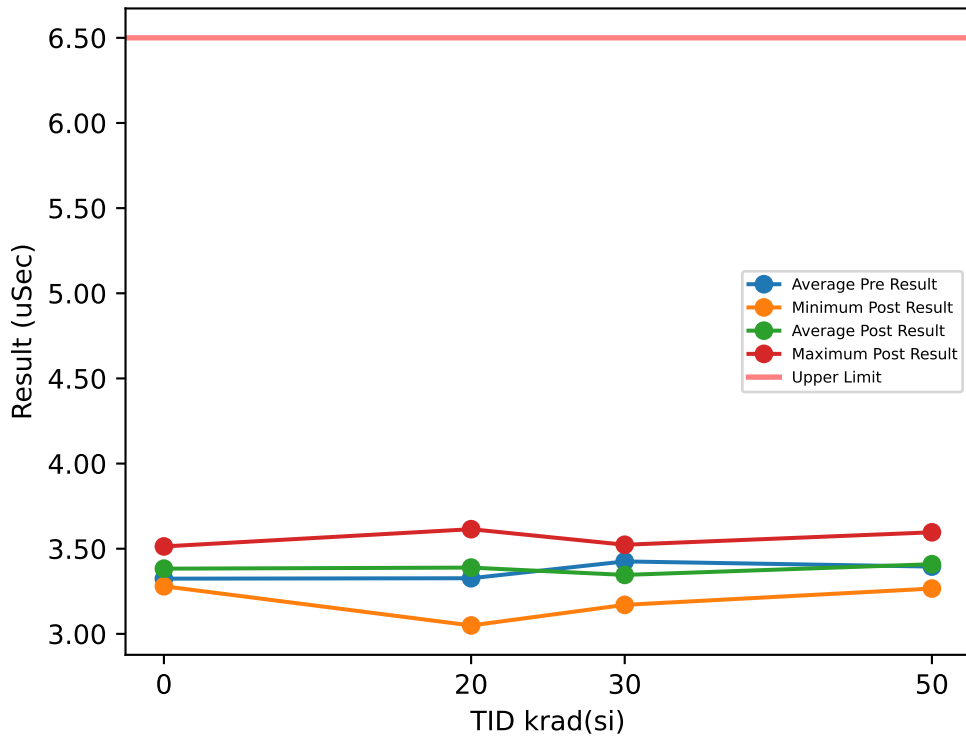| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 3.396 | 3.2809 | -0.1151 |
| 2 | 20 | Bias | 3.3296 | 3.2472 | -0.0824 |
| 3 | 20 | Bias | 3.1735 | 3.2438 | 0.0703 |
| 4 | 20 | Bias | 3.3685 | 3.2196 | -0.1489 |
| 5 | 20 | Bias | 3.0794 | 3.4651 | 0.3857 |
| 6 | 20 | Unbiased | 3.3642 | 3.1398 | -0.2244 |
| 7 | 20 | Unbiased | 3.5299 | 3.4373 | -0.0926 |
| 8 | 20 | Unbiased | 3.2243 | 3.1242 | -0.1001 |
| 9 | 20 | Unbiased | 3.3872 | 3.4539 | 0.0667 |
| 10 | 20 | Unbiased | 3.1225 | 3.3661 | 0.2436 |
| 11 | 30 | Bias | 3.1153 | 3.2317 | 0.1164 |
| 12 | 30 | Bias | 3.1826 | 3.4585 | 0.2759 |
| 13 | 30 | Bias | 3.2823 | 3.2007 | -0.0816 |
| 14 | 30 | Bias | 3.3988 | 3.3991 | 0.0003 |
| 15 | 30 | Bias | 3.2495 | 3.3771 | 0.1276 |
| 16 | 30 | Unbiased | 3.184 | 3.3335 | 0.1495 |
| 17 | 30 | Unbiased | 3.2355 | 3.3388 | 0.1033 |
| 18 | 30 | Unbiased | 3.1992 | 3.0316 | -0.1676 |
| 19 | 30 | Unbiased | 3.2086 | 3.4898 | 0.2812 |
| 20 | 30 | Unbiased | 3.3454 | 3.3464 | 0.001 |
| 21 | 50 | Bias | 3.4074 | 3.4864 | 0.079 |
| 22 | 50 | Bias | 3.1899 | 3.2239 | 0.034 |
| 23 | 50 | Bias | 3.3395 | 3.1762 | -0.1633 |
| 24 | 50 | Bias | 3.3192 | 3.2029 | -0.1163 |
| 25 | 50 | Bias | 3.2737 | 3.1118 | -0.1619 |
| 26 | 50 | Unbiased | 3.3512 | 3.4034 | 0.0522 |
| 27 | 50 | Unbiased | 3.3827 | 3.2612 | -0.1215 |
| 28 | 50 | Unbiased | 3.206 | 3.2862 | 0.0802 |
| 29 | 50 | Unbiased | 3.241 | 3.3509 | 0.1099 |
| 30 | 50 | Unbiased | 3.2966 | 3.1605 | -0.1361 |
| 31 | 0 | Correlation | 3.427 | 3.4505 | 0.0235 |
| 32 | 0 | Correlation | 3.5089 | 3.5439 | 0.035 |
| 33 | 0 | Correlation | 3.323 | 3.2727 | -0.0503 |
| 34 | 0 | Correlation | 3.0319 | 3.0147 | -0.0172 |

## Test Statistics (uSec)
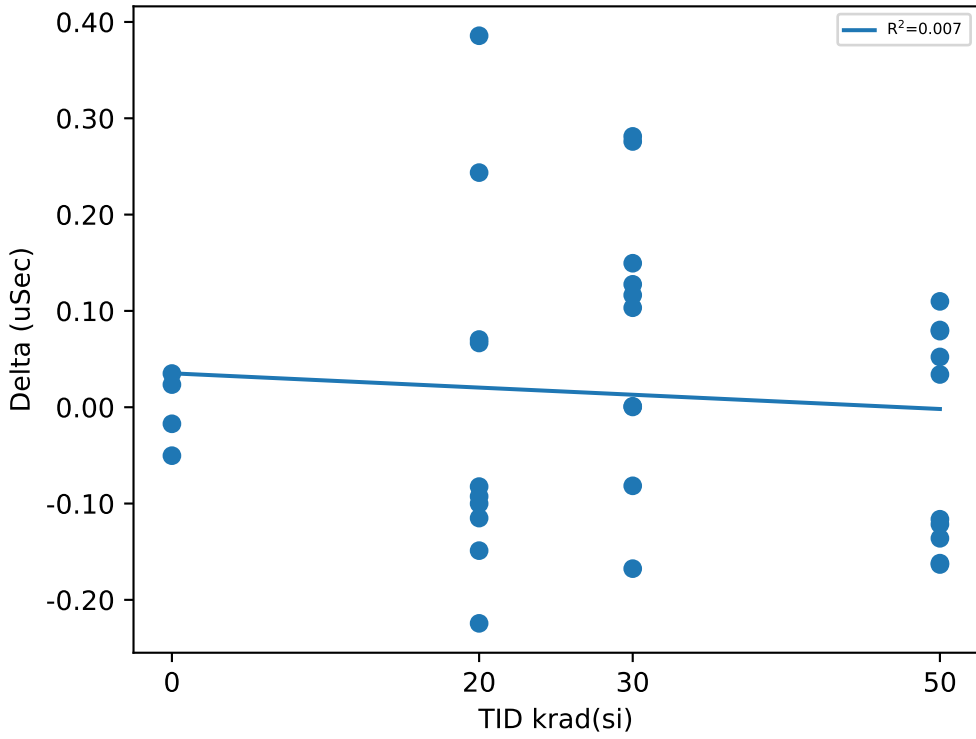
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.0319 | 3.3227 | 3.5089 | 0.20826 | 3.0147 | 3.3205 | 3.5439 | 0.23281 | -0.0503 | -0.00225 | 0.035 | 0.039085 |
| 20 | 3.0794 | 3.2975 | 3.5299 | 0.14189 | 3.1242 | 3.2978 | 3.4651 | 0.12625 | -0.2244 | 0.00028 | 0.3857 | 0.19109 |
| 30 | 3.1153 | 3.2401 | 3.3988 | 0.083571 | 3.0316 | 3.3207 | 3.4898 | 0.13497 | -0.1676 | 0.0806 | 0.2812 | 0.14447 |
| 50 | 3.1899 | 3.3007 | 3.4074 | 0.073076 | 3.1118 | 3.2663 | 3.4864 | 0.11729 | -0.1633 | -0.03438 | 0.1099 | 0.11377 |
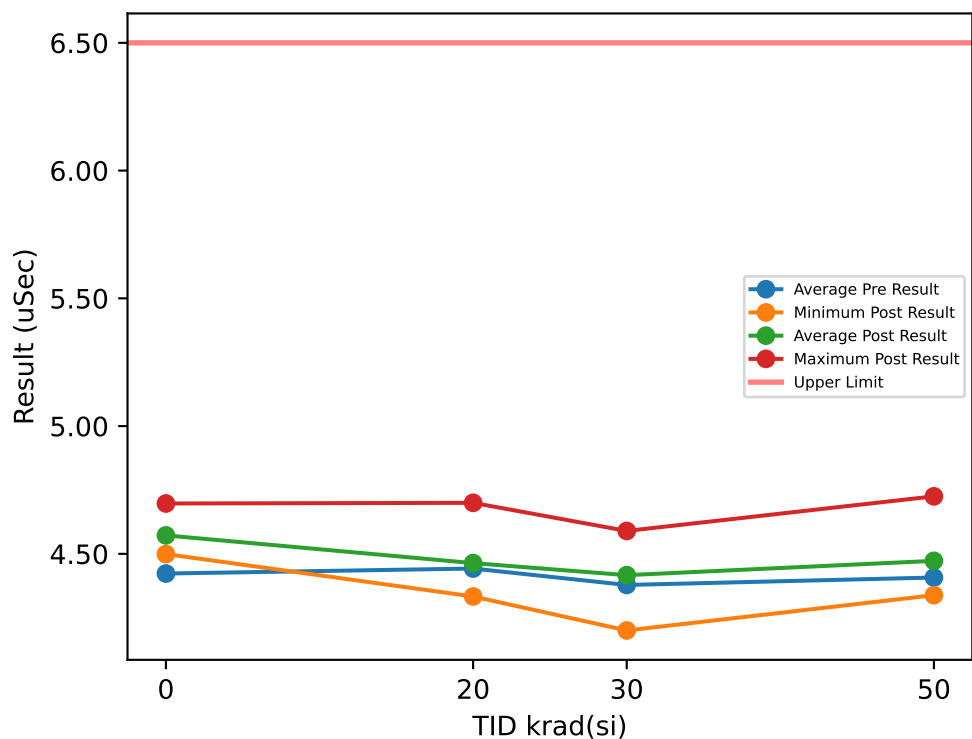
# Device Test: 17.35  TPD_SEQ_DONE(_DELAY|STEP_DOWN/SEQ_DONE/7/3/0/0/0/@TPD_SEQ_DONE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

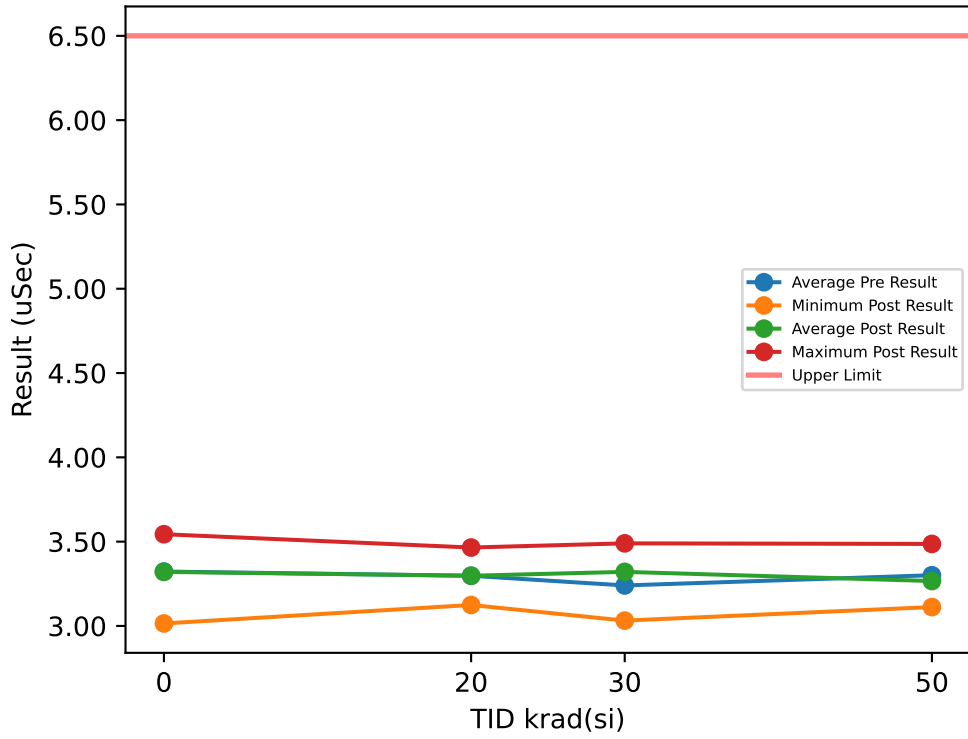| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 4.3849 | 4.6997 | 0.3148 |
| 2 | 20 | Bias | 4.6058 | 4.3894 | -0.2164 |
| 3 | 20 | Bias | 4.3816 | 4.4891 | 0.1075 |
| 4 | 20 | Bias | 4.6844 | 4.4959 | -0.1885 |
| 5 | 20 | Bias | 4.5172 | 4.3593 | -0.1579 |
| 6 | 20 | Unbiased | 4.3543 | 4.3332 | -0.0211 |
| 7 | 20 | Unbiased | 4.09 | 4.5711 | 0.4811 |
| 8 | 20 | Unbiased | 4.394 | 4.5 | 0.106 |
| 9 | 20 | Unbiased | 4.5812 | 4.3365 | -0.2447 |
| 10 | 20 | Unbiased | 4.4318 | 4.4638 | 0.032 |
| 11 | 30 | Bias | 4.7228 | 4.4577 | -0.2651 |
| 12 | 30 | Bias | 4.4571 | 4.2961 | -0.161 |
| 13 | 30 | Bias | 4.3498 | 4.5047 | 0.1549 |
| 14 | 30 | Bias | 4.2287 | 4.2354 | 0.0067 |
| 15 | 30 | Bias | 4.4698 | 4.5897 | 0.1199 |
| 16 | 30 | Unbiased | 4.4476 | 4.2002 | -0.2474 |
| 17 | 30 | Unbiased | 4.1006 | 4.5299 | 0.4293 |
| 18 | 30 | Unbiased | 4.2894 | 4.4834 | 0.194 |
| 19 | 30 | Unbiased | 4.256 | 4.3634 | 0.1074 |
| 20 | 30 | Unbiased | 4.4607 | 4.5058 | 0.0451 |
| 21 | 50 | Bias | 4.4152 | 4.3382 | -0.077 |
| 22 | 50 | Bias | 4.3452 | 4.3918 | 0.0466 |
| 23 | 50 | Bias | 4.3942 | 4.391 | -0.0032 |
| 24 | 50 | Bias | 4.2859 | 4.4788 | 0.1929 |
| 25 | 50 | Bias | 4.5016 | 4.5412 | 0.0396 |
| 26 | 50 | Unbiased | 4.3936 | 4.4484 | 0.0548 |
| 27 | 50 | Unbiased | 4.4987 | 4.4936 | -0.0051 |
| 28 | 50 | Unbiased | 4.4687 | 4.4507 | -0.018 |
| 29 | 50 | Unbiased | 4.4663 | 4.4673 | 0.001 |
| 30 | 50 | Unbiased | 4.3045 | 4.7251 | 0.4206 |
| 31 | 0 | Correlation | 4.3229 | 4.6971 | 0.3742 |
| 32 | 0 | Correlation | 4.6023 | 4.5369 | -0.0654 |
| 33 | 0 | Correlation | 4.3424 | 4.5561 | 0.2137 |
| 34 | 0 | Correlation | 4.4244 | 4.499 | 0.0746 |

## Test Statistics (uSec)
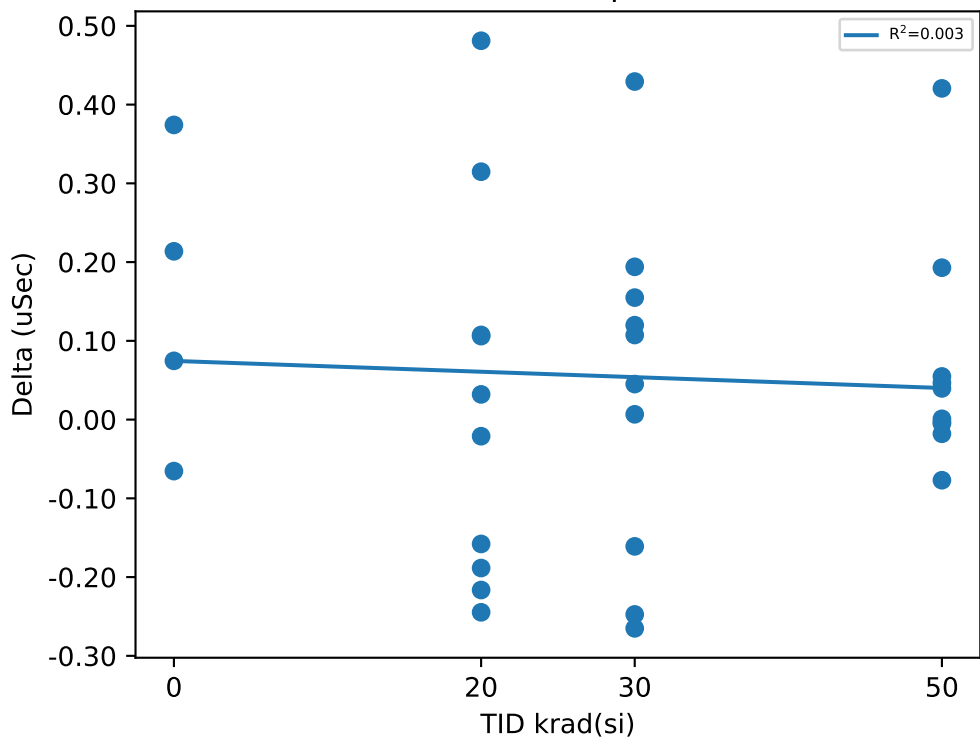
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.3229 | 4.423 | 4.6023 | 0.12737 | 4.499 | 4.5723 | 4.6971 | 0.086532 | -0.0654 | 0.14928 | 0.3742 | 0.18833 |
| 20 | 4.09 | 4.4425 | 4.6844 | 0.16718 | 4.3332 | 4.4638 | 4.6997 | 0.1154 | -0.2447 | 0.02128 | 0.4811 | 0.23978 |
| 30 | 4.1006 | 4.3782 | 4.7228 | 0.17257 | 4.2002 | 4.4166 | 4.5897 | 0.13403 | -0.2651 | 0.03838 | 0.4293 | 0.21515 |
| 50 | 4.2859 | 4.4074 | 4.5016 | 0.077518 | 4.3382 | 4.4726 | 4.7251 | 0.10608 | -0.077 | 0.06522 | 0.4206 | 0.14322 |
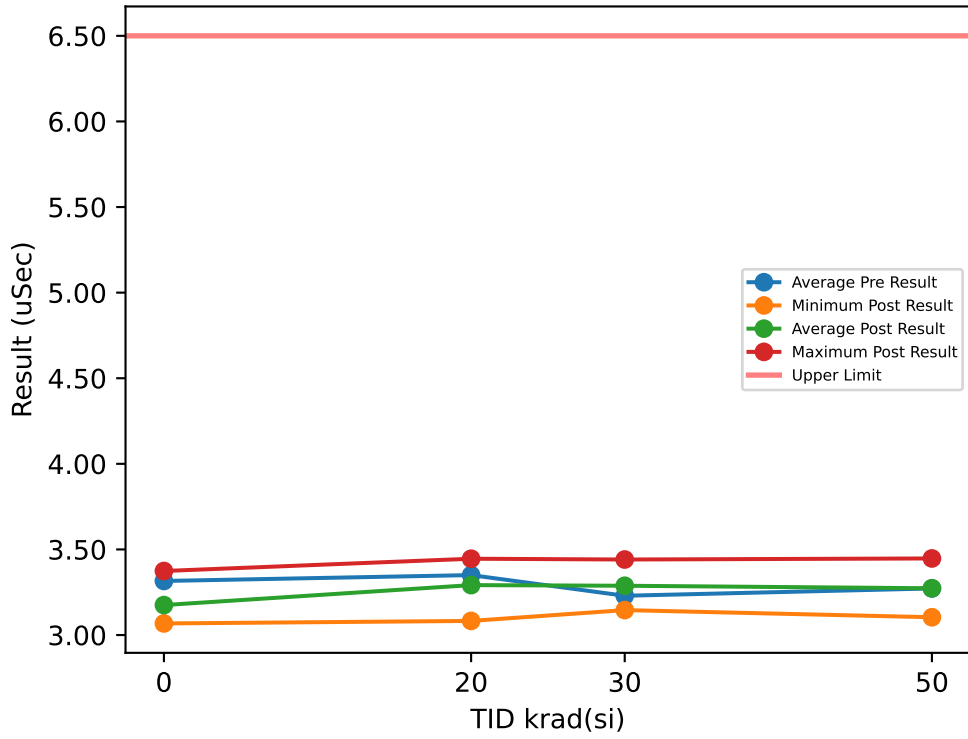
# Device Test: 17.36  TPD_PWRGD(_DELAY|STEP_DOWN/PWRGD/7/3/0/0/0/@TPD_PWRGD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 3.2692 | 3.0824 | -0.1868 |
| 2 | 20 | Bias | 3.3091 | 3.4265 | 0.1174 |
| 3 | 20 | Bias | 3.5095 | 3.3234 | -0.1861 |
| 4 | 20 | Bias | 3.3601 | 3.4457 | 0.0856 |
| 5 | 20 | Bias | 3.4802 | 3.3186 | -0.1616 |
| 6 | 20 | Unbiased | 3.2135 | 3.2652 | 0.0517 |
| 7 | 20 | Unbiased | 3.4392 | 3.3255 | -0.1137 |
| 8 | 20 | Unbiased | 3.3914 | 3.3817 | -0.0097 |
| 9 | 20 | Unbiased | 3.0612 | 3.1123 | 0.0511 |
| 10 | 20 | Unbiased | 3.4674 | 3.2346 | -0.2328 |
| 11 | 30 | Bias | 3.2049 | 3.2305 | 0.0256 |
| 12 | 30 | Bias | 2.9176 | 3.3715 | 0.4539 |
| 13 | 30 | Bias | 3.2871 | 3.1895 | -0.0976 |
| 14 | 30 | Bias | 3.285 | 3.3575 | 0.0725 |
| 15 | 30 | Bias | 3.3185 | 3.1812 | -0.1373 |
| 16 | 30 | Unbiased | 3.2237 | 3.4103 | 0.1866 |
| 17 | 30 | Unbiased | 3.2168 | 3.1456 | -0.0712 |
| 18 | 30 | Unbiased | 3.1929 | 3.4411 | 0.2482 |
| 19 | 30 | Unbiased | 3.3498 | 3.1563 | -0.1935 |
| 20 | 30 | Unbiased | 3.2977 | 3.3947 | 0.097 |
| 21 | 50 | Bias | 3.2342 | 3.3144 | 0.0802 |
| 22 | 50 | Bias | 3.1792 | 3.4236 | 0.2444 |
| 23 | 50 | Bias | 3.3889 | 3.2912 | -0.0977 |
| 24 | 50 | Bias | 3.436 | 3.2268 | -0.2092 |
| 25 | 50 | Bias | 3.2197 | 3.1061 | -0.1136 |
| 26 | 50 | Unbiased | 3.2891 | 3.375 | 0.0859 |
| 27 | 50 | Unbiased | 3.3218 | 3.202 | -0.1198 |
| 28 | 50 | Unbiased | 3.3468 | 3.1039 | -0.2429 |
| 29 | 50 | Unbiased | 3.138 | 3.2418 | 0.1038 |
| 30 | 50 | Unbiased | 3.1671 | 3.4473 | 0.2802 |
| 31 | 0 | Correlation | 3.4732 | 3.1611 | -0.3121 |
| 32 | 0 | Correlation | 3.1863 | 3.374 | 0.1877 |
| 33 | 0 | Correlation | 3.3548 | 3.0676 | -0.2872 |
| 34 | 0 | Correlation | 3.2489 | 3.0972 | -0.1517 |

## Test Statistics (uSec)
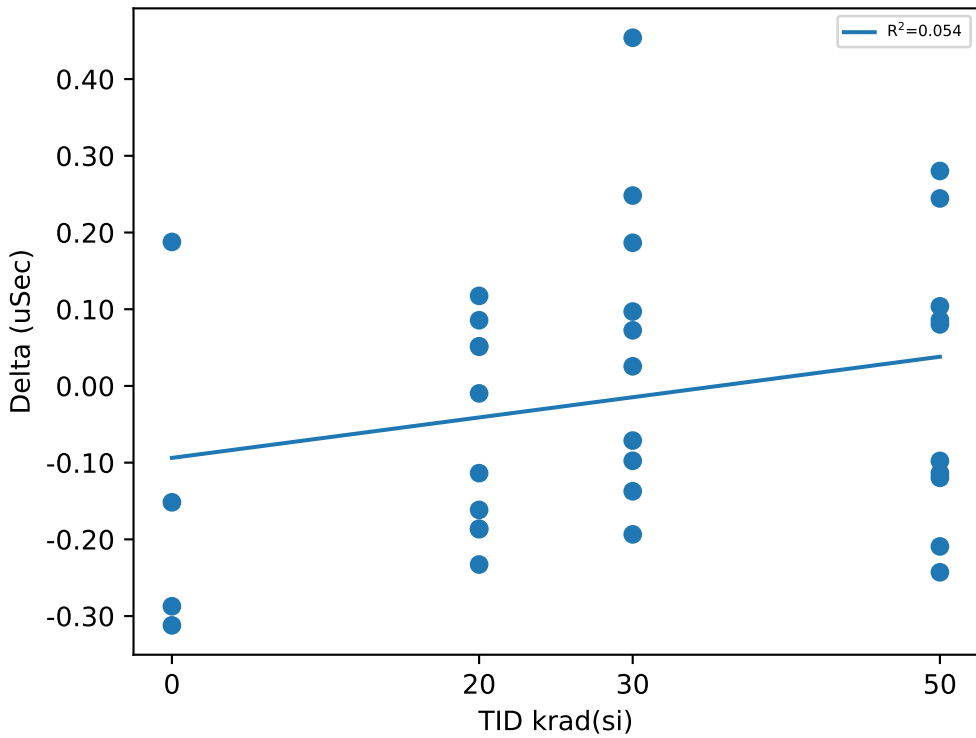
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.1863 | 3.3158 | 3.4732 | 0.12589 | 3.0676 | 3.175 | 3.374 | 0.1383 | -0.3121 | -0.14082 | 0.1877 | 0.23008 |
| 20 | 3.0612 | 3.3501 | 3.5095 | 0.13992 | 3.0824 | 3.2916 | 3.4457 | 0.12148 | -0.2328 | -0.05849 | 0.1174 | 0.13125 |
| 30 | 2.9176 | 3.2294 | 3.3498 | 0.1215 | 3.1456 | 3.2878 | 3.4411 | 0.1172 | -0.1935 | 0.05842 | 0.4539 | 0.19847 |
| 50 | 3.138 | 3.2721 | 3.436 | 0.10037 | 3.1039 | 3.2732 | 3.4473 | 0.12024 | -0.2429 | 0.00113 | 0.2802 | 0.1833 |
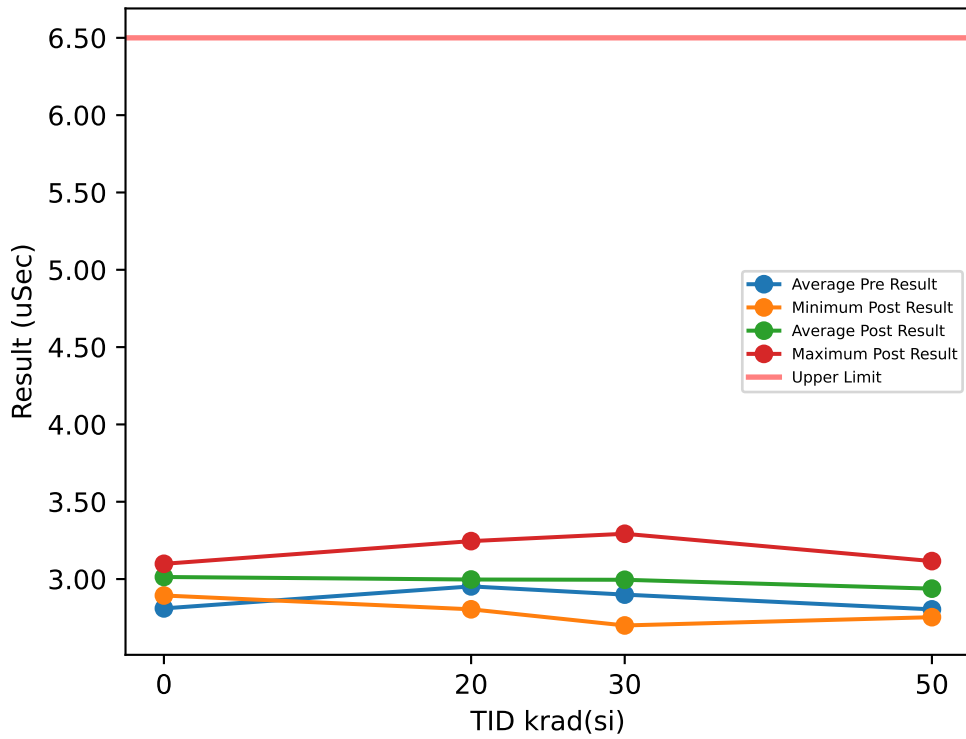
# Device Test: 17.37  TPD_EN(_DELAY|STEP_UP/EN1/7/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.768 | 2.936 | 0.168 |
| 2 | 20 | Bias | 3.0459 | 2.9635 | -0.0824 |
| 3 | 20 | Bias | 2.9256 | 2.9696 | 0.044 |
| 4 | 20 | Bias | 2.8453 | 3.0978 | 0.2525 |
| 5 | 20 | Bias | 2.8995 | 3.0191 | 0.1196 |
| 6 | 20 | Unbiased | 2.8475 | 2.8757 | 0.0282 |
| 7 | 20 | Unbiased | 3.1817 | 3.2454 | 0.0637 |
| 8 | 20 | Unbiased | 3.0496 | 3.0182 | -0.0314 |
| 9 | 20 | Unbiased | 3.0416 | 3.0416 | 0 |
| 10 | 20 | Unbiased | 2.9215 | 2.8044 | -0.1171 |
| 11 | 30 | Bias | 3.0618 | 3.0869 | 0.0251 |
| 12 | 30 | Bias | 3.1454 | 3.2929 | 0.1475 |
| 13 | 30 | Bias | 2.754 | 2.9324 | 0.1784 |
| 14 | 30 | Bias | 2.8287 | 3.0238 | 0.1951 |
| 15 | 30 | Bias | 2.9237 | 3.0661 | 0.1424 |
| 16 | 30 | Unbiased | 2.8435 | 2.7 | -0.1435 |
| 17 | 30 | Unbiased | 2.9182 | 3.0401 | 0.1219 |
| 18 | 30 | Unbiased | 2.8774 | 2.8416 | -0.0358 |
| 19 | 30 | Unbiased | 2.7466 | 2.8347 | 0.0881 |
| 20 | 30 | Unbiased | 2.8951 | 3.1354 | 0.2403 |
| 21 | 50 | Bias | 2.8008 | 2.9199 | 0.1191 |
| 22 | 50 | Bias | 2.7832 | 2.894 | 0.1108 |
| 23 | 50 | Bias | 2.5399 | 2.7692 | 0.2293 |
| 24 | 50 | Bias | 2.9581 | 2.7535 | -0.2046 |
| 25 | 50 | Bias | 2.7887 | 2.983 | 0.1943 |
| 26 | 50 | Unbiased | 2.7754 | 2.9909 | 0.2155 |
| 27 | 50 | Unbiased | 2.8937 | 3.1162 | 0.2225 |
| 28 | 50 | Unbiased | 2.7253 | 2.9679 | 0.2426 |
| 29 | 50 | Unbiased | 2.9444 | 2.8711 | -0.0733 |
| 30 | 50 | Unbiased | 2.831 | 3.1145 | 0.2835 |
| 31 | 0 | Correlation | 2.7307 | 3.0986 | 0.3679 |
| 32 | 0 | Correlation | 2.728 | 3.0114 | 0.2834 |
| 33 | 0 | Correlation | 2.8706 | 2.8938 | 0.0232 |
| 34 | 0 | Correlation | 2.9119 | 3.0499 | 0.138 |

## Test Statistics (uSec)
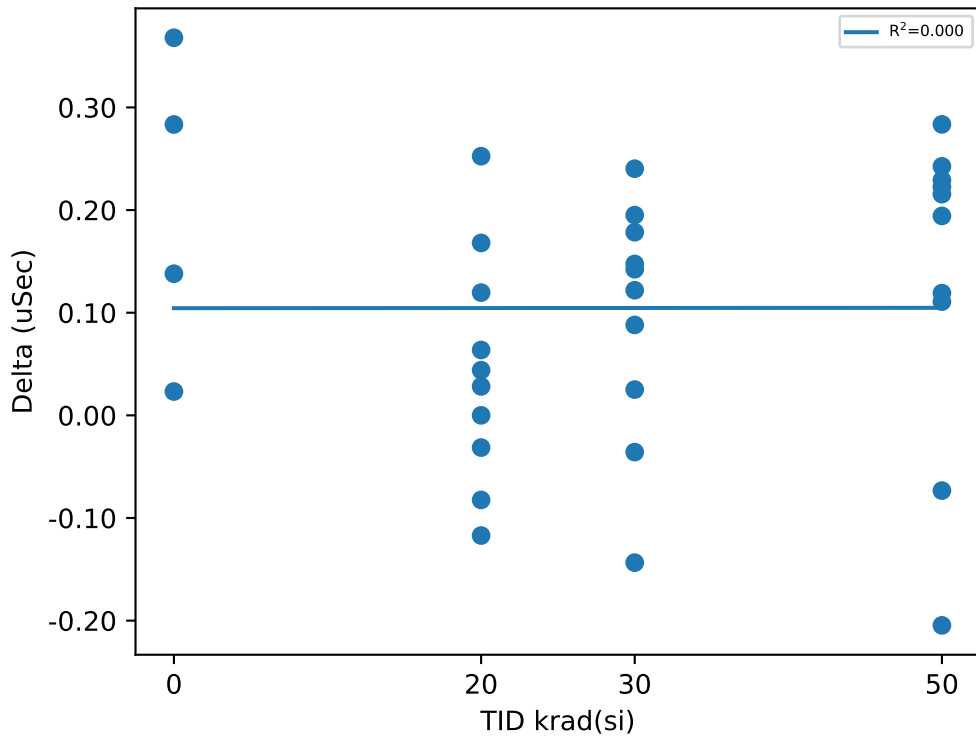
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.728 | 2.8103 | 2.9119 | 0.094988 | 2.8938 | 3.0134 | 3.0986 | 0.087368 | 0.0232 | 0.20312 | 0.3679 | 0.15298 |
| 20 | 2.768 | 2.9526 | 3.1817 | 0.12458 | 2.8044 | 2.9971 | 3.2454 | 0.12119 | -0.1171 | 0.04451 | 0.2525 | 0.11292 |
| 30 | 2.7466 | 2.8994 | 3.1454 | 0.12514 | 2.7 | 2.9954 | 3.2929 | 0.17159 | -0.1435 | 0.09595 | 0.2403 | 0.11678 |
| 50 | 2.5399 | 2.804 | 2.9581 | 0.12003 | 2.7535 | 2.938 | 3.1162 | 0.12378 | -0.2046 | 0.13397 | 0.2835 | 0.15625 |
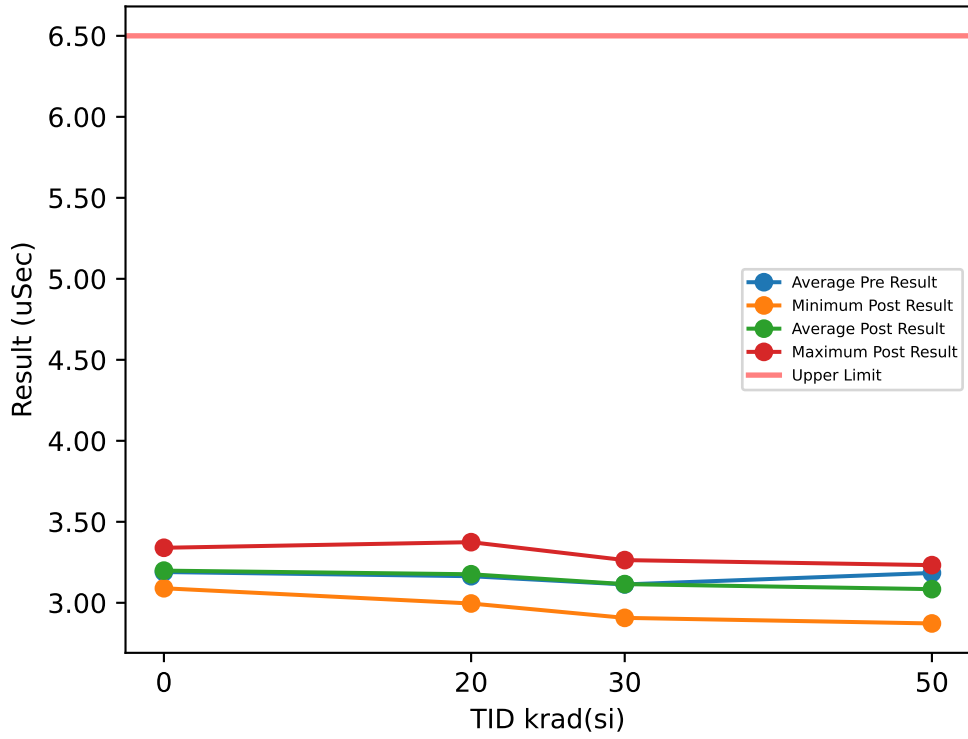
# Device Test: 17.38  TPD_EN(_DELAY|STEP_UP/EN2/7/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.9324 | 3.0763 | 0.1439 |
| 2 | 20 | Bias | 3.2544 | 3.2286 | -0.0258 |
| 3 | 20 | Bias | 3.2414 | 3.144 | -0.0974 |
| 4 | 20 | Bias | 3.3876 | 3.3743 | -0.0133 |
| 5 | 20 | Bias | 3.2726 | 3.1918 | -0.0808 |
| 6 | 20 | Unbiased | 3.1418 | 3.1669 | 0.0251 |
| 7 | 20 | Unbiased | 3.1749 | 2.9957 | -0.1792 |
| 8 | 20 | Unbiased | 3.1752 | 3.0617 | -0.1135 |
| 9 | 20 | Unbiased | 2.9411 | 3.3156 | 0.3745 |
| 10 | 20 | Unbiased | 3.1201 | 3.2081 | 0.088 |
| 11 | 30 | Bias | 3.0068 | 3.0977 | 0.0909 |
| 12 | 30 | Bias | 3.0117 | 3.2534 | 0.2417 |
| 13 | 30 | Bias | 3.082 | 2.907 | -0.175 |
| 14 | 30 | Bias | 3.2571 | 3.2275 | -0.0296 |
| 15 | 30 | Bias | 3.0959 | 3.1261 | 0.0302 |
| 16 | 30 | Unbiased | 3.1305 | 3.0031 | -0.1274 |
| 17 | 30 | Unbiased | 3.1397 | 3.2636 | 0.1239 |
| 18 | 30 | Unbiased | 3.0385 | 3.1837 | 0.1452 |
| 19 | 30 | Unbiased | 3.1273 | 3.027 | -0.1003 |
| 20 | 30 | Unbiased | 3.2446 | 3.0641 | -0.1805 |
| 21 | 50 | Bias | 3.0681 | 3.0136 | -0.0545 |
| 22 | 50 | Bias | 3.3506 | 3.2325 | -0.1181 |
| 23 | 50 | Bias | 3.0655 | 3.1367 | 0.0712 |
| 24 | 50 | Bias | 3.1115 | 3.0052 | -0.1063 |
| 25 | 50 | Bias | 3.2906 | 3.0639 | -0.2267 |
| 26 | 50 | Unbiased | 3.3138 | 2.8725 | -0.4413 |
| 27 | 50 | Unbiased | 3.0643 | 3.0903 | 0.026 |
| 28 | 50 | Unbiased | 3.114 | 3.1837 | 0.0697 |
| 29 | 50 | Unbiased | 3.2919 | 3.1063 | -0.1856 |
| 30 | 50 | Unbiased | 3.1725 | 3.1381 | -0.0344 |
| 31 | 0 | Correlation | 3.0336 | 3.0898 | 0.0562 |
| 32 | 0 | Correlation | 3.2258 | 3.112 | -0.1138 |
| 33 | 0 | Correlation | 3.3596 | 3.3397 | -0.0199 |
| 34 | 0 | Correlation | 3.1404 | 3.2532 | 0.1128 |

## Test Statistics (uSec)
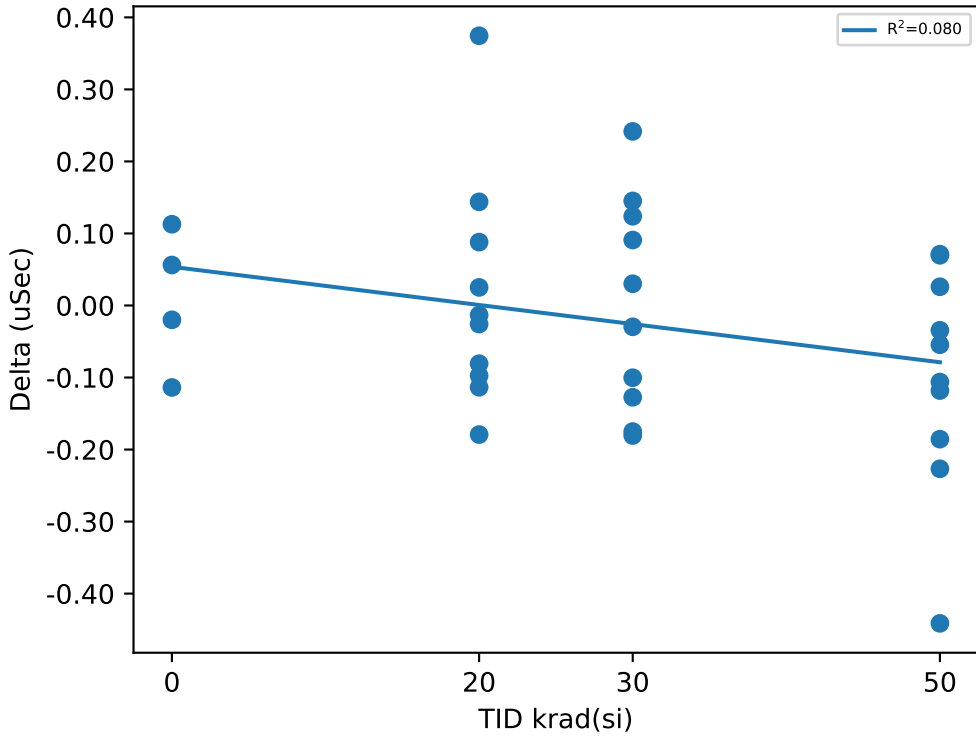
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0336 | 3.1898 | 3.3596 | 0.1378 | 3.0898 | 3.1987 | 3.3397 | 0.11864 | -0.1138 | 0.008825 | 0.1128 | 0.098179 |
| 20 | 2.9324 | 3.1642 | 3.3876 | 0.14218 | 2.9957 | 3.1763 | 3.3743 | 0.11522 | -0.1792 | 0.01215 | 0.3745 | 0.15976 |
| 30 | 3.0068 | 3.1134 | 3.2571 | 0.086698 | 2.907 | 3.1153 | 3.2636 | 0.11792 | -0.1805 | 0.00191 | 0.2417 | 0.14696 |
| 50 | 3.0643 | 3.1843 | 3.3506 | 0.11533 | 2.8725 | 3.0843 | 3.2325 | 0.10249 | -0.4413 | -0.1 | 0.0712 | 0.15656 |
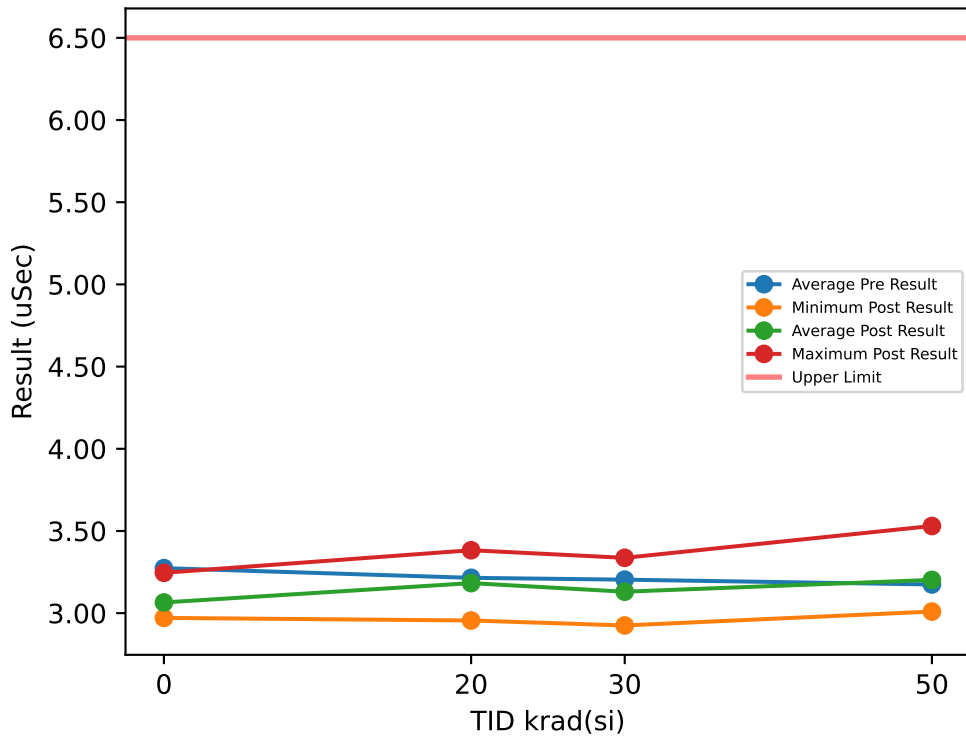
# Device Test: 17.39  TPD_EN(_DELAY|STEP_UP/EN3/7/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.458 | 3.273 | -0.185 |
| 2 | 20 | Bias | 3.071 | 3.1944 | 0.1234 |
| 3 | 20 | Bias | 3.0011 | 3.1661 | 0.165 |
| 4 | 20 | Bias | 3.1649 | 3.3828 | 0.2179 |
| 5 | 20 | Bias | 3.2301 | 2.9555 | -0.2746 |
| 6 | 20 | Unbiased | 3.3017 | 3.1185 | -0.1832 |
| 7 | 20 | Unbiased | 3.1425 | 3.3242 | 0.1817 |
| 8 | 20 | Unbiased | 3.3873 | 3.1707 | -0.2166 |
| 9 | 20 | Unbiased | 3.0457 | 3.1443 | 0.0986 |
| 10 | 20 | Unbiased | 3.3472 | 3.0992 | -0.248 |
| 11 | 30 | Bias | 3.0215 | 3.1676 | 0.1461 |
| 12 | 30 | Bias | 2.998 | 3.3366 | 0.3386 |
| 13 | 30 | Bias | 3.1788 | 3.2218 | 0.043 |
| 14 | 30 | Bias | 3.2723 | 3.3012 | 0.0289 |
| 15 | 30 | Bias | 3.2512 | 2.9252 | -0.326 |
| 16 | 30 | Unbiased | 3.3172 | 2.9805 | -0.3367 |
| 17 | 30 | Unbiased | 3.2861 | 3.2122 | -0.0739 |
| 18 | 30 | Unbiased | 3.4089 | 2.9785 | -0.4304 |
| 19 | 30 | Unbiased | 3.164 | 3.1816 | 0.0176 |
| 20 | 30 | Unbiased | 3.1398 | 3.0009 | -0.1389 |
| 21 | 50 | Bias | 3.2651 | 3.2708 | 0.0057 |
| 22 | 50 | Bias | 3.2707 | 3.3278 | 0.0571 |
| 23 | 50 | Bias | 3.0757 | 3.3577 | 0.282 |
| 24 | 50 | Bias | 3.0728 | 3.0097 | -0.0631 |
| 25 | 50 | Bias | 3.1263 | 3.1084 | -0.0179 |
| 26 | 50 | Unbiased | 3.2146 | 3.209 | -0.0056 |
| 27 | 50 | Unbiased | 3.0003 | 3.0714 | 0.0711 |
| 28 | 50 | Unbiased | 3.343 | 3.0788 | -0.2642 |
| 29 | 50 | Unbiased | 3.1359 | 3.5303 | 0.3944 |
| 30 | 50 | Unbiased | 3.2413 | 3.059 | -0.1823 |
| 31 | 0 | Correlation | 3.4499 | 2.9712 | -0.4787 |
| 32 | 0 | Correlation | 3.3273 | 3.2456 | -0.0817 |
| 33 | 0 | Correlation | 3.1338 | 2.9963 | -0.1375 |
| 34 | 0 | Correlation | 3.1846 | 3.047 | -0.1376 |

## Test Statistics (uSec)
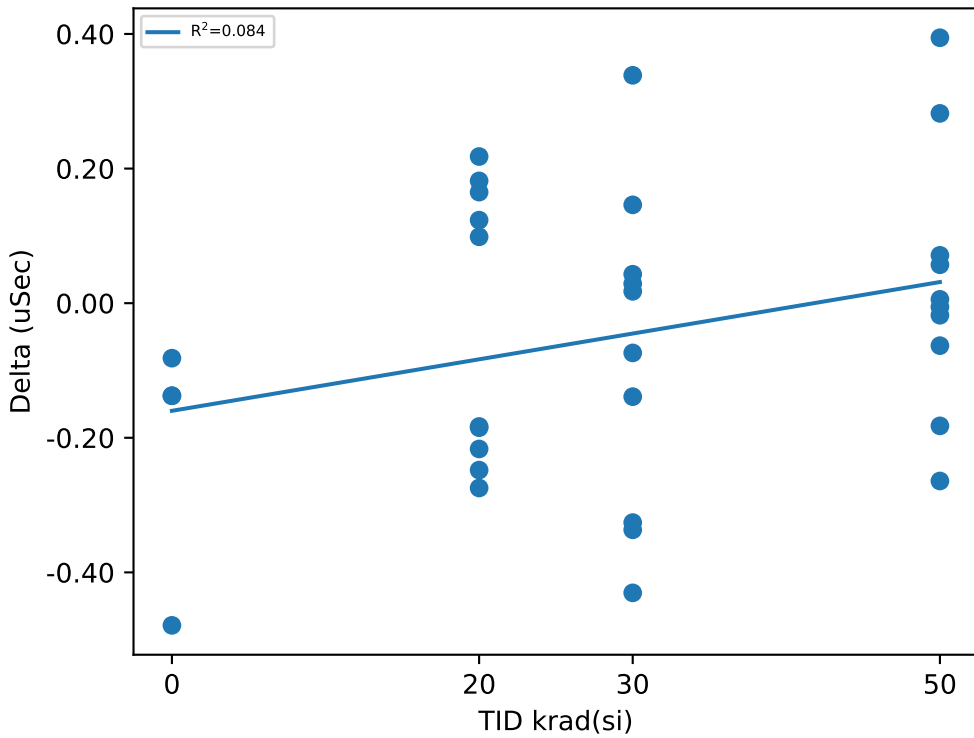
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.1338 | 3.2739 | 3.4499 | 0.1431 | 2.9712 | 3.065 | 3.2456 | 0.12444 | -0.4787 | -0.20887 | -0.0817 | 0.1818 |
| 20 | 3.0011 | 3.215 | 3.458 | 0.15523 | 2.9555 | 3.1829 | 3.3828 | 0.12155 | -0.2746 | -0.03208 | 0.2179 | 0.20385 |
| 30 | 2.998 | 3.2038 | 3.4089 | 0.12933 | 2.9252 | 3.1306 | 3.3366 | 0.14726 | -0.4304 | -0.07317 | 0.3386 | 0.23923 |
| 50 | 3.0003 | 3.1746 | 3.343 | 0.10862 | 3.0097 | 3.2023 | 3.5303 | 0.16702 | -0.2642 | 0.02772 | 0.3944 | 0.19525 |
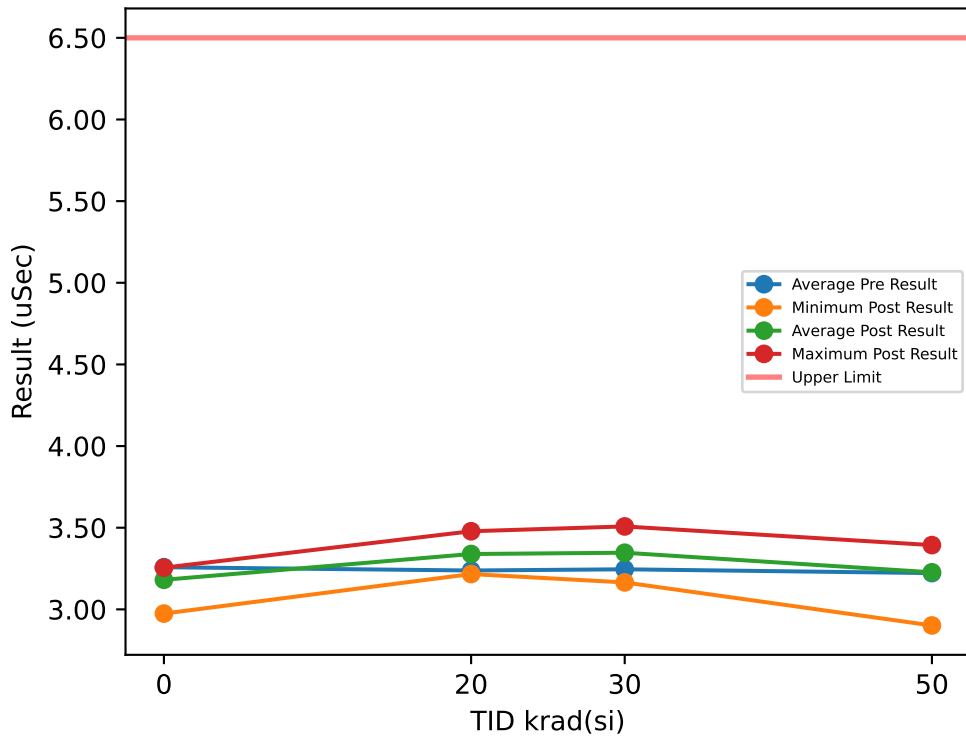
# Device Test: 17.4   TPD_EN(_DELAY|STEP_UP/EN4/1.6/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.3951 | 3.461 | 0.0659 |
| 2 | 20 | Bias | 3.476 | 3.3482 | -0.1278 |
| 3 | 20 | Bias | 3.1457 | 3.4784 | 0.3327 |
| 4 | 20 | Bias | 3.0653 | 3.3256 | 0.2603 |
| 5 | 20 | Bias | 3.1249 | 3.2842 | 0.1593 |
| 6 | 20 | Unbiased | 3.0499 | 3.2164 | 0.1665 |
| 7 | 20 | Unbiased | 3.2508 | 3.2269 | -0.0239 |
| 8 | 20 | Unbiased | 3.19 | 3.3289 | 0.1389 |
| 9 | 20 | Unbiased | 3.4475 | 3.3817 | -0.0658 |
| 10 | 20 | Unbiased | 3.2357 | 3.3392 | 0.1035 |
| 11 | 30 | Bias | 3.4027 | 3.165 | -0.2377 |
| 12 | 30 | Bias | 3.2402 | 3.473 | 0.2328 |
| 13 | 30 | Bias | 3.2664 | 3.2969 | 0.0305 |
| 14 | 30 | Bias | 3.1482 | 3.3983 | 0.2501 |
| 15 | 30 | Bias | 3.3718 | 3.5079 | 0.1361 |
| 16 | 30 | Unbiased | 3.3318 | 3.3306 | -0.0012 |
| 17 | 30 | Unbiased | 3.3322 | 3.3682 | 0.036 |
| 18 | 30 | Unbiased | 3.0356 | 3.4318 | 0.3962 |
| 19 | 30 | Unbiased | 3.1284 | 3.2591 | 0.1307 |
| 20 | 30 | Unbiased | 3.1968 | 3.238 | 0.0412 |
| 21 | 50 | Bias | 3.3845 | 3.2902 | -0.0943 |
| 22 | 50 | Bias | 3.1548 | 3.3698 | 0.215 |
| 23 | 50 | Bias | 3.1911 | 2.9015 | -0.2896 |
| 24 | 50 | Bias | 3.2978 | 3.1713 | -0.1265 |
| 25 | 50 | Bias | 3.1574 | 3.1673 | 0.0099 |
| 26 | 50 | Unbiased | 3.2698 | 3.3873 | 0.1175 |
| 27 | 50 | Unbiased | 3.2802 | 3.058 | -0.2222 |
| 28 | 50 | Unbiased | 3.1272 | 3.1802 | 0.053 |
| 29 | 50 | Unbiased | 3.1472 | 3.3518 | 0.2046 |
| 30 | 50 | Unbiased | 3.212 | 3.3936 | 0.1816 |
| 31 | 0 | Correlation | 3.0553 | 3.2554 | 0.2001 |
| 32 | 0 | Correlation | 3.2699 | 2.9743 | -0.2956 |
| 33 | 0 | Correlation | 3.4853 | 3.2421 | -0.2432 |
| 34 | 0 | Correlation | 3.2218 | 3.2527 | 0.0309 |

## Test Statistics (uSec)
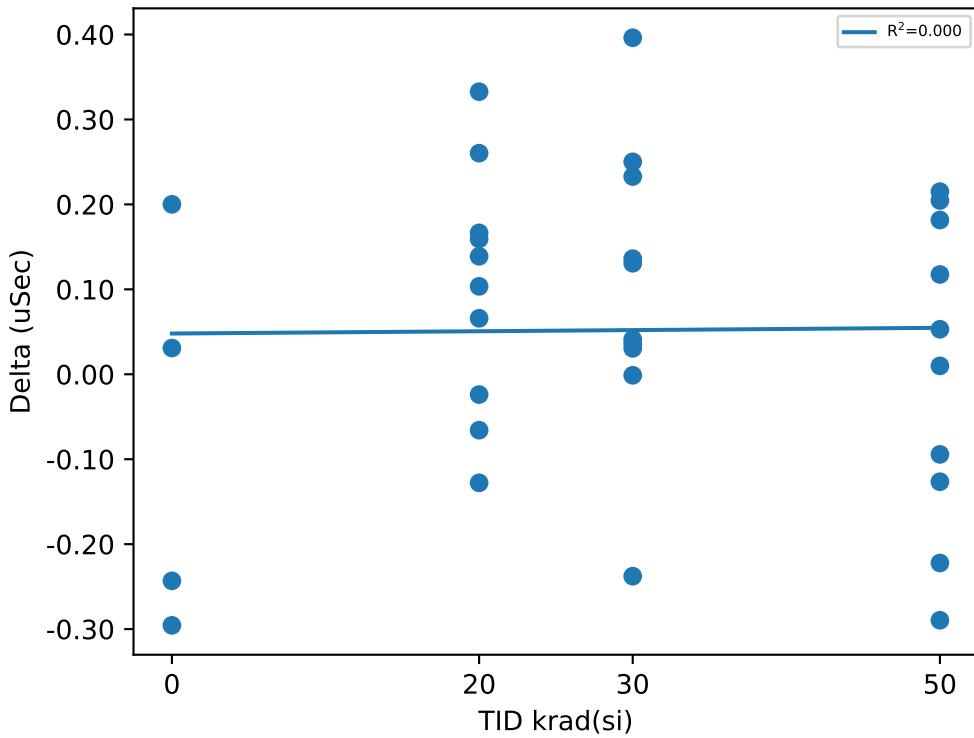
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0553 | 3.2581 | 3.4853 | 0.1772 | 2.9743 | 3.1811 | 3.2554 | 0.138 | -0.2956 | -0.07695 | 0.2001 | 0.23369 |
| 20 | 3.0499 | 3.2381 | 3.476 | 0.15427 | 3.2164 | 3.3391 | 3.4784 | 0.086349 | -0.1278 | 0.10096 | 0.3327 | 0.14345 |
| 30 | 3.0356 | 3.2454 | 3.4027 | 0.11818 | 3.165 | 3.3469 | 3.5079 | 0.10931 | -0.2377 | 0.10147 | 0.3962 | 0.17217 |
| 50 | 3.1272 | 3.2222 | 3.3845 | 0.083099 | 2.9015 | 3.2271 | 3.3936 | 0.1622 | -0.2896 | 0.0049 | 0.215 | 0.18125 |
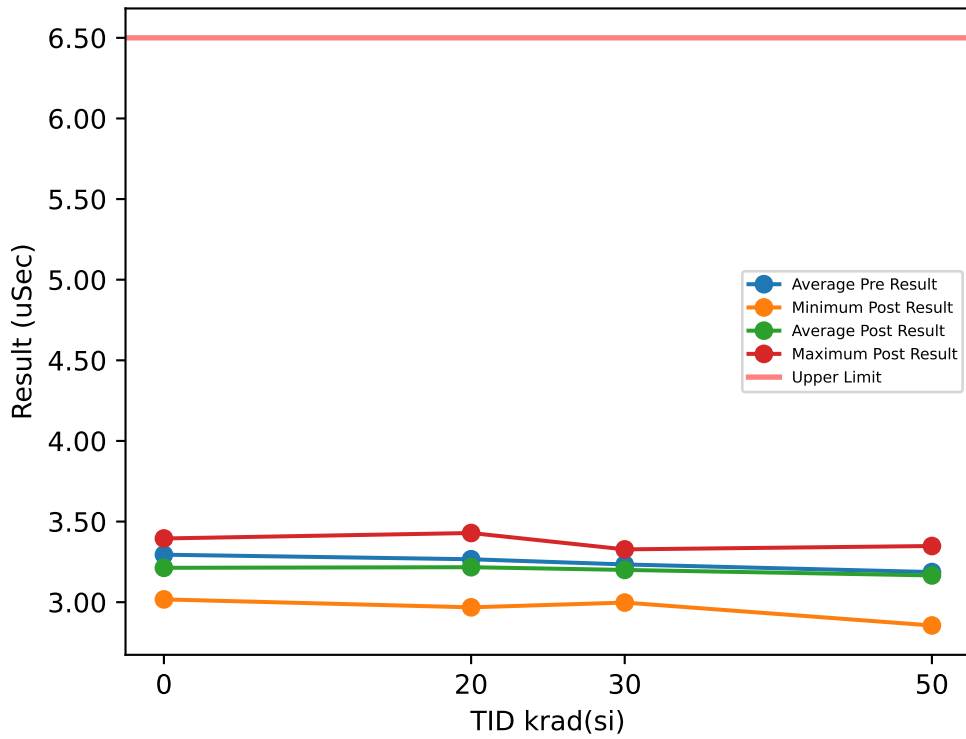
# Device Test: 17.40  TPD_EN(_DELAY|STEP_UP/EN4/7/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.4298 | 3.3485 | -0.0813 |
| 2 | 20 | Bias | 3.1591 | 3.1484 | -0.0107 |
| 3 | 20 | Bias | 3.4556 | 3.4291 | -0.0265 |
| 4 | 20 | Bias | 3.369 | 3.0684 | -0.3006 |
| 5 | 20 | Bias | 3.2334 | 3.3585 | 0.1251 |
| 6 | 20 | Unbiased | 3.0089 | 3.1839 | 0.175 |
| 7 | 20 | Unbiased | 3.3648 | 3.2354 | -0.1294 |
| 8 | 20 | Unbiased | 3.2769 | 3.1537 | -0.1232 |
| 9 | 20 | Unbiased | 3.1456 | 2.9681 | -0.1775 |
| 10 | 20 | Unbiased | 3.2204 | 3.275 | 0.0546 |
| 11 | 30 | Bias | 3.3436 | 3.2337 | -0.1099 |
| 12 | 30 | Bias | 3.1879 | 3.2907 | 0.1028 |
| 13 | 30 | Bias | 3.3456 | 3.024 | -0.3216 |
| 14 | 30 | Bias | 2.9811 | 3.284 | 0.3029 |
| 15 | 30 | Bias | 3.0771 | 3.2858 | 0.2087 |
| 16 | 30 | Unbiased | 3.3113 | 3.2714 | -0.0399 |
| 17 | 30 | Unbiased | 3.2306 | 3.2325 | 0.0019 |
| 18 | 30 | Unbiased | 3.3681 | 3.3275 | -0.0406 |
| 19 | 30 | Unbiased | 3.2887 | 2.9976 | -0.2911 |
| 20 | 30 | Unbiased | 3.2066 | 3.0547 | -0.1519 |
| 21 | 50 | Bias | 3.1444 | 3.2018 | 0.0574 |
| 22 | 50 | Bias | 3.1811 | 3.1396 | -0.0415 |
| 23 | 50 | Bias | 3.1536 | 3.3162 | 0.1626 |
| 24 | 50 | Bias | 2.9857 | 2.8557 | -0.13 |
| 25 | 50 | Bias | 3.3836 | 3.1875 | -0.1961 |
| 26 | 50 | Unbiased | 3.1285 | 3.2753 | 0.1468 |
| 27 | 50 | Unbiased | 3.2243 | 3.0994 | -0.1249 |
| 28 | 50 | Unbiased | 3.1213 | 3.2652 | 0.1439 |
| 29 | 50 | Unbiased | 3.2325 | 3.3484 | 0.1159 |
| 30 | 50 | Unbiased | 3.3133 | 2.9701 | -0.3432 |
| 31 | 0 | Correlation | 3.4109 | 3.3952 | -0.0157 |
| 32 | 0 | Correlation | 3.0963 | 3.0773 | -0.019 |
| 33 | 0 | Correlation | 3.2949 | 3.3631 | 0.0682 |
| 34 | 0 | Correlation | 3.3761 | 3.0173 | -0.3588 |

## Test Statistics (uSec)
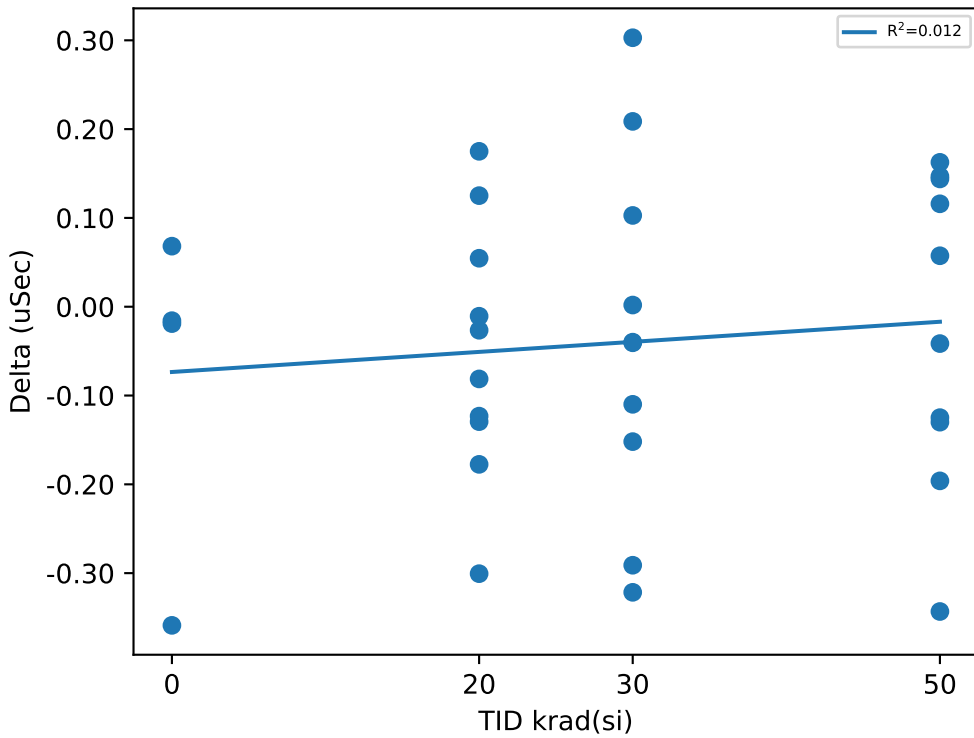
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0963 | 3.2946 | 3.4109 | 0.14082 | 3.0173 | 3.2132 | 3.3952 | 0.1936 | -0.3588 | -0.081325 | 0.0682 | 0.18933 |
| 20 | 3.0089 | 3.2664 | 3.4556 | 0.1408 | 2.9681 | 3.2169 | 3.4291 | 0.14136 | -0.3006 | -0.04945 | 0.175 | 0.14377 |
| 30 | 2.9811 | 3.2341 | 3.3681 | 0.126 | 2.9976 | 3.2002 | 3.3275 | 0.12438 | -0.3216 | -0.03387 | 0.3029 | 0.20027 |
| 50 | 2.9857 | 3.1868 | 3.3836 | 0.1102 | 2.8557 | 3.1659 | 3.3484 | 0.15605 | -0.3432 | -0.02091 | 0.1626 | 0.17369 |
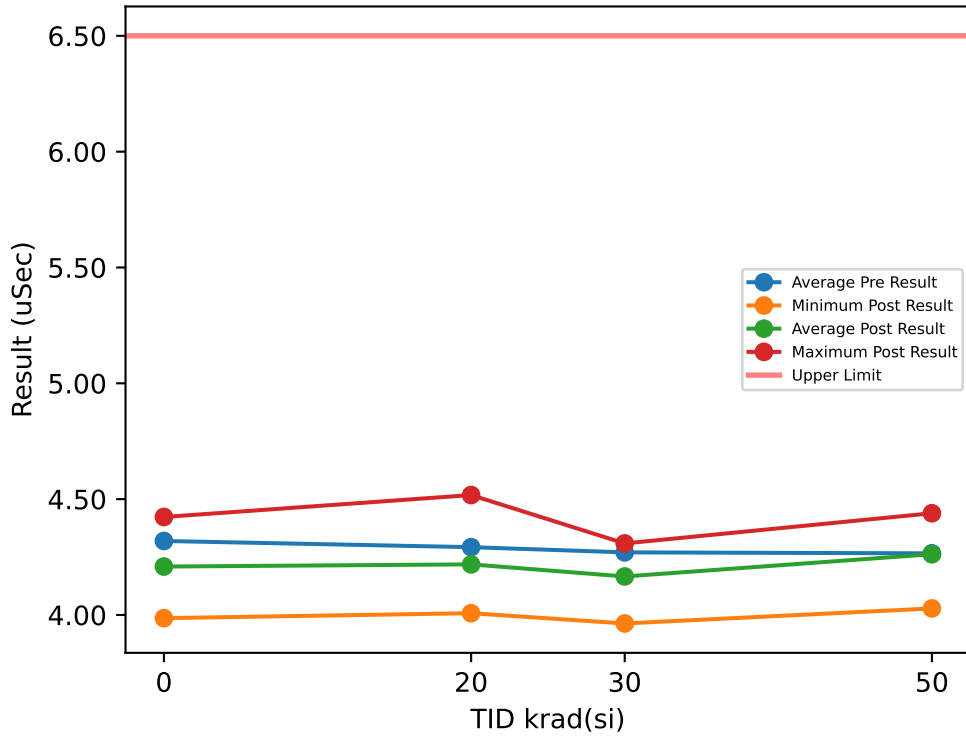
# Device Test: 17.41  TPD_SEQ_DONE(_DELAY|STEP_UP/SEQ_DONE/7/14/0/0/0/@TPD_SEQ_DONE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 4.3759 | 4.5176 | 0.1417 |
| 2 | 20 | Bias | 4.2839 | 4.294 | 0.0101 |
| 3 | 20 | Bias | 4.4579 | 4.2253 | -0.2326 |
| 4 | 20 | Bias | 4.2435 | 4.173 | -0.0705 |
| 5 | 20 | Bias | 4.1405 | 4.1178 | -0.0227 |
| 6 | 20 | Unbiased | 4.2999 | 4.0174 | -0.2825 |
| 7 | 20 | Unbiased | 4.0454 | 4.0076 | -0.0378 |
| 8 | 20 | Unbiased | 4.3668 | 4.203 | -0.1638 |
| 9 | 20 | Unbiased | 4.415 | 4.2505 | -0.1645 |
| 10 | 20 | Unbiased | 4.2973 | 4.3771 | 0.0798 |
| 11 | 30 | Bias | 4.1547 | 4.1633 | 0.0086 |
| 12 | 30 | Bias | 4.2523 | 4.1203 | -0.132 |
| 13 | 30 | Bias | 4.4285 | 3.9633 | -0.4652 |
| 14 | 30 | Bias | 4.2585 | 4.2616 | 0.0031 |
| 15 | 30 | Bias | 4.3745 | 4.3088 | -0.0657 |
| 16 | 30 | Unbiased | 4.1385 | 4.1426 | 0.0041 |
| 17 | 30 | Unbiased | 4.3094 | 4.2268 | -0.0826 |
| 18 | 30 | Unbiased | 4.1981 | 4.1918 | -0.0063 |
| 19 | 30 | Unbiased | 4.3918 | 4.1967 | -0.1951 |
| 20 | 30 | Unbiased | 4.1958 | 4.0865 | -0.1093 |
| 21 | 50 | Bias | 4.6357 | 4.3813 | -0.2544 |
| 22 | 50 | Bias | 4.0472 | 4.3278 | 0.2806 |
| 23 | 50 | Bias | 4.0409 | 4.3783 | 0.3374 |
| 24 | 50 | Bias | 4.3631 | 4.1765 | -0.1866 |
| 25 | 50 | Bias | 4.2174 | 4.3299 | 0.1125 |
| 26 | 50 | Unbiased | 4.335 | 4.4391 | 0.1041 |
| 27 | 50 | Unbiased | 4.2522 | 4.0281 | -0.2241 |
| 28 | 50 | Unbiased | 4.1438 | 4.1361 | -0.0077 |
| 29 | 50 | Unbiased | 4.2519 | 4.0707 | -0.1812 |
| 30 | 50 | Unbiased | 4.3728 | 4.3534 | -0.0194 |
| 31 | 0 | Correlation | 4.3268 | 4.4229 | 0.0961 |
| 32 | 0 | Correlation | 4.3614 | 4.1771 | -0.1843 |
| 33 | 0 | Correlation | 4.1364 | 3.9862 | -0.1502 |
| 34 | 0 | Correlation | 4.4528 | 4.2497 | -0.2031 |

## Test Statistics (uSec)
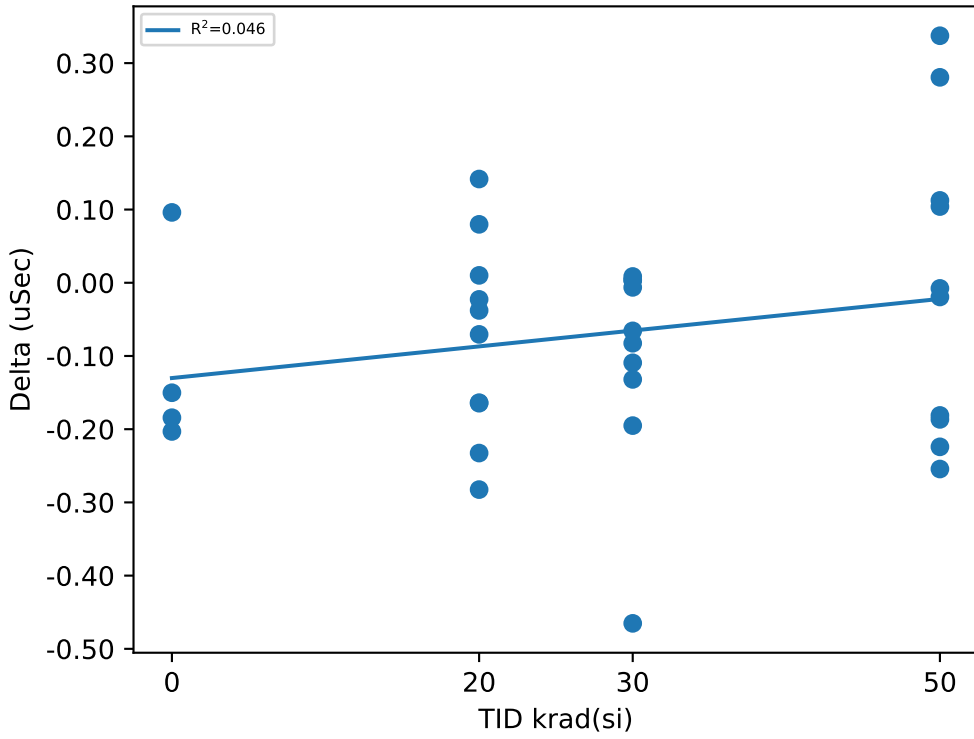
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 4.1364 | 4.3194 | 4.4528 | 0.13305 | 3.9862 | 4.209 | 4.4229 | 0.1808 | -0.2031 | -0.11037 | 0.0961 | 0.13938 |
| 20 | 4.0454 | 4.2926 | 4.4579 | 0.12541 | 4.0076 | 4.2183 | 4.5176 | 0.1559 | -0.2825 | -0.07428 | 0.1417 | 0.13585 |
| 30 | 4.1385 | 4.2702 | 4.4285 | 0.10227 | 3.9633 | 4.1662 | 4.3088 | 0.097118 | -0.4652 | -0.10404 | 0.0086 | 0.1441 |
| 50 | 4.0409 | 4.266 | 4.6357 | 0.17591 | 4.0281 | 4.2621 | 4.4391 | 0.14563 | -0.2544 | -0.00388 | 0.3374 | 0.21054 |

# Device Test: 17.42  TPD_PWRGD(_DELAY|STEP_UP/PWRGD/7/14/0/0/0/@TPD_PWRGD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.1701 | 3.3761 | 0.206 |
| 2 | 20 | Bias | 3.2769 | 3.2013 | -0.0756 |
| 3 | 20 | Bias | 3.2758 | 3.3754 | 0.0996 |
| 4 | 20 | Bias | 3.438 | 3.4186 | -0.0194 |
| 5 | 20 | Bias | 3.0506 | 2.9169 | -0.1337 |
| 6 | 20 | Unbiased | 3.2885 | 3.1398 | -0.1487 |
| 7 | 20 | Unbiased | 3.2346 | 3.0022 | -0.2324 |
| 8 | 20 | Unbiased | 3.2583 | 3.1894 | -0.0689 |
| 9 | 20 | Unbiased | 3.4623 | 3.374 | -0.0883 |
| 10 | 20 | Unbiased | 3.3081 | 3.3383 | 0.0302 |
| 11 | 30 | Bias | 3.4648 | 3.1569 | -0.3079 |
| 12 | 30 | Bias | 3.3496 | 3.3989 | 0.0493 |
| 13 | 30 | Bias | 3.3128 | 3.3142 | 0.0014 |
| 14 | 30 | Bias | 3.4108 | 3.281 | -0.1298 |
| 15 | 30 | Bias | 3.1623 | 3.4063 | 0.244 |
| 16 | 30 | Unbiased | 3.0921 | 2.9474 | -0.1447 |
| 17 | 30 | Unbiased | 3.1915 | 3.2286 | 0.0371 |
| 18 | 30 | Unbiased | 3.1556 | 3.3007 | 0.1451 |
| 19 | 30 | Unbiased | 3.3565 | 3.1291 | -0.2274 |
| 20 | 30 | Unbiased | 3.0606 | 3.281 | 0.2204 |
| 21 | 50 | Bias | 3.331 | 3.0387 | -0.2923 |
| 22 | 50 | Bias | 3.4565 | 3.3096 | -0.1469 |
| 23 | 50 | Bias | 3.1981 | 3.1853 | -0.0128 |
| 24 | 50 | Bias | 3.2062 | 3.2455 | 0.0393 |
| 25 | 50 | Bias | 3.2465 | 3.2207 | -0.0258 |
| 26 | 50 | Unbiased | 3.2685 | 3.0716 | -0.1969 |
| 27 | 50 | Unbiased | 3.3466 | 3.0511 | -0.2955 |
| 28 | 50 | Unbiased | 3.0378 | 3.178 | 0.1402 |
| 29 | 50 | Unbiased | 3.1135 | 3.3393 | 0.2258 |
| 30 | 50 | Unbiased | 3.2687 | 3.1715 | -0.0972 |
| 31 | 0 | Correlation | 3.2392 | 3.2349 | -0.0043 |
| 32 | 0 | Correlation | 3.4879 | 3.1815 | -0.3064 |
| 33 | 0 | Correlation | 3.1947 | 3.0932 | -0.1015 |
| 34 | 0 | Correlation | 3.2666 | 3.2321 | -0.0345 |

## Test Statistics (uSec)
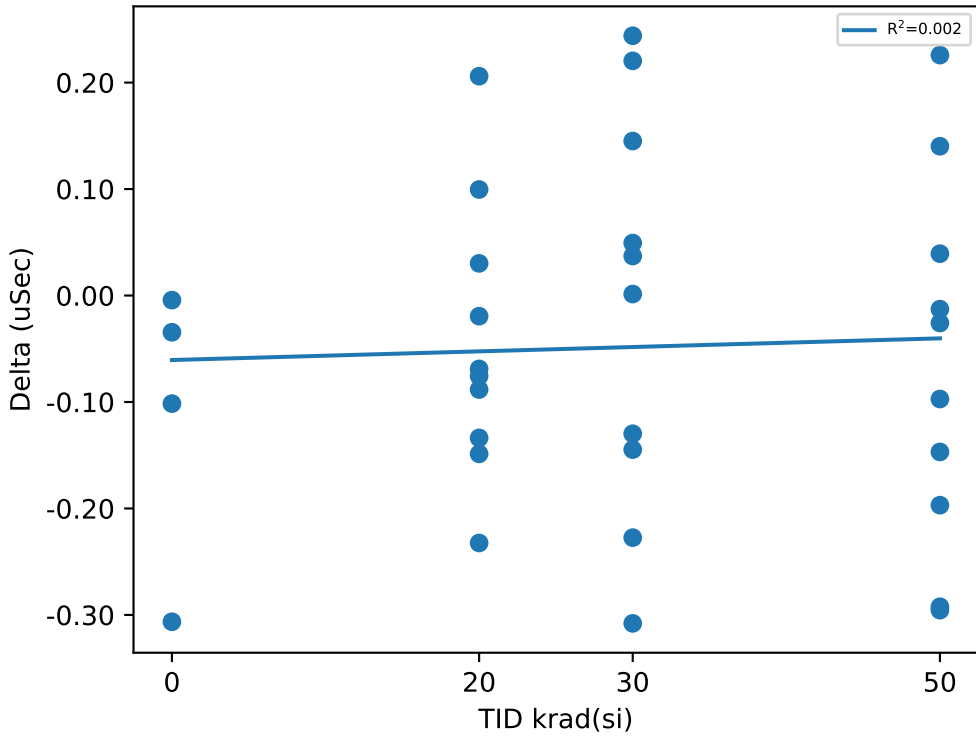
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.1947 | 3.2971 | 3.4879 | 0.13061 | 3.0932 | 3.1854 | 3.2349 | 0.0662 | -0.3064 | -0.11167 | -0.0043 | 0.13602 |
| 20 | 3.0506 | 3.2763 | 3.4623 | 0.11841 | 2.9169 | 3.2332 | 3.4186 | 0.17351 | -0.2324 | -0.04312 | 0.206 | 0.12794 |
| 30 | 3.0606 | 3.2557 | 3.4648 | 0.14052 | 2.9474 | 3.2444 | 3.4063 | 0.13752 | -0.3079 | -0.01125 | 0.244 | 0.18738 |
| 50 | 3.0378 | 3.2473 | 3.4565 | 0.119 | 3.0387 | 3.1811 | 3.3393 | 0.10357 | -0.2955 | -0.06621 | 0.2258 | 0.17376 |
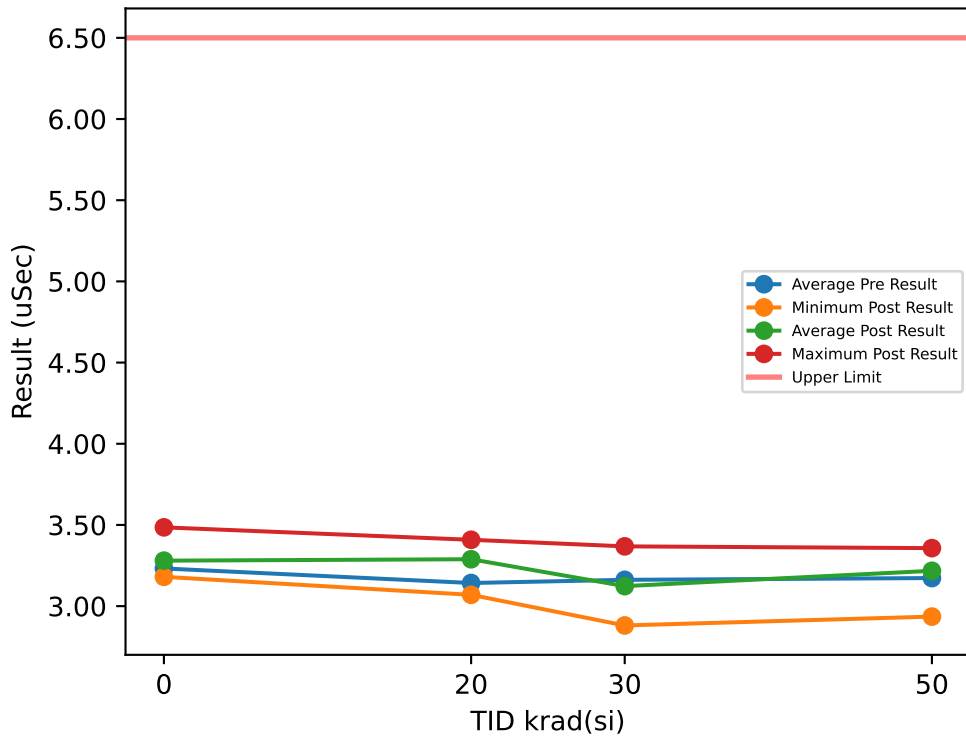
# Device Test: 17.43  TPD_EN(_DELAY|STEP_DOWN/EN1/7/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

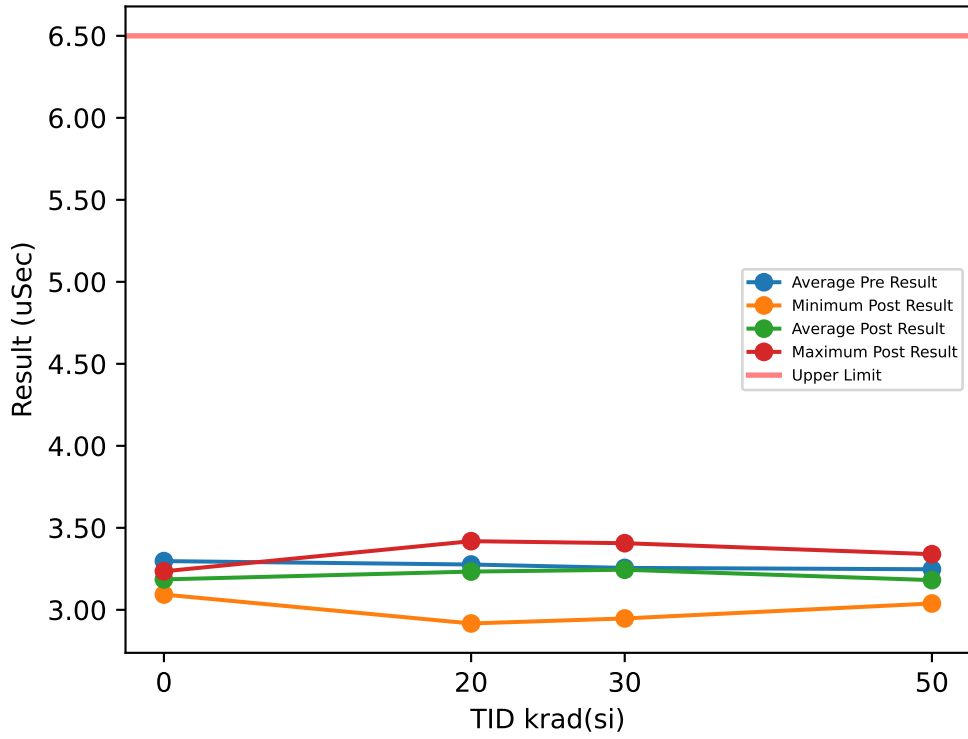| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.3665 | 3.286 | -0.0805 |
| 2 | 20 | Bias | 3.0302 | 3.3142 | 0.284 |
| 3 | 20 | Bias | 3.1625 | 3.3892 | 0.2267 |
| 4 | 20 | Bias | 3.3481 | 3.2417 | -0.1064 |
| 5 | 20 | Bias | 2.9805 | 3.1569 | 0.1764 |
| 6 | 20 | Unbiased | 3.0402 | 3.3344 | 0.2942 |
| 7 | 20 | Unbiased | 3.1694 | 3.2983 | 0.1289 |
| 8 | 20 | Unbiased | 3.2554 | 3.4086 | 0.1532 |
| 9 | 20 | Unbiased | 2.8879 | 3.0697 | 0.1818 |
| 10 | 20 | Unbiased | 3.1844 | 3.3893 | 0.2049 |
| 11 | 30 | Bias | 3.1862 | 3.3681 | 0.1819 |
| 12 | 30 | Bias | 2.8722 | 3.0971 | 0.2249 |
| 13 | 30 | Bias | 3.0974 | 2.881 | -0.2164 |
| 14 | 30 | Bias | 3.2209 | 3.1079 | -0.113 |
| 15 | 30 | Bias | 3.0843 | 3.2486 | 0.1643 |
| 16 | 30 | Unbiased | 3.3607 | 2.9507 | -0.41 |
| 17 | 30 | Unbiased | 3.0871 | 3.0999 | 0.0128 |
| 18 | 30 | Unbiased | 3.3914 | 3.2053 | -0.1861 |
| 19 | 30 | Unbiased | 3.1195 | 3.1475 | 0.028 |
| 20 | 30 | Unbiased | 3.2006 | 3.1257 | -0.0749 |
| 21 | 50 | Bias | 3.2825 | 3.2032 | -0.0793 |
| 22 | 50 | Bias | 3.2722 | 3.3573 | 0.0851 |
| 23 | 50 | Bias | 2.9847 | 3.2322 | 0.2475 |
| 24 | 50 | Bias | 3.2444 | 3.2924 | 0.048 |
| 25 | 50 | Bias | 3.2661 | 2.9355 | -0.3306 |
| 26 | 50 | Unbiased | 3.0599 | 3.3378 | 0.2779 |
| 27 | 50 | Unbiased | 3.0358 | 3.3187 | 0.2829 |
| 28 | 50 | Unbiased | 3.2568 | 3.2235 | -0.0333 |
| 29 | 50 | Unbiased | 3.1209 | 3.0086 | -0.1123 |
| 30 | 50 | Unbiased | 3.2054 | 3.2667 | 0.0613 |
| 31 | 0 | Correlation | 3.257 | 3.1869 | -0.0701 |
| 32 | 0 | Correlation | 3.3343 | 3.4852 | 0.1509 |
| 33 | 0 | Correlation | 3.2479 | 3.2679 | 0.02 |
| 34 | 0 | Correlation | 3.0891 | 3.1805 | 0.0914 |

## Test Statistics (uSec)
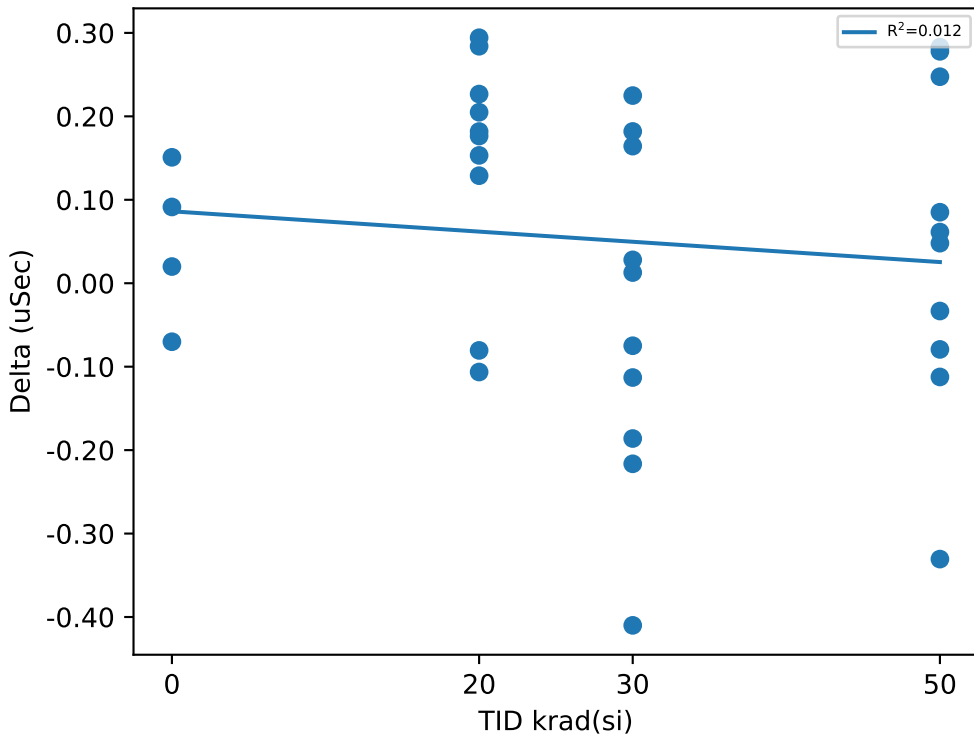
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0891 | 3.2321 | 3.3343 | 0.1029 | 3.1805 | 3.2801 | 3.4852 | 0.14239 | -0.0701 | 0.04805 | 0.1509 | 0.095225 |
| 20 | 2.8879 | 3.1425 | 3.3665 | 0.15713 | 3.0697 | 3.2888 | 3.4086 | 0.108 | -0.1064 | 0.14632 | 0.2942 | 0.13685 |
| 30 | 2.8722 | 3.162 | 3.3914 | 0.1488 | 2.881 | 3.1232 | 3.3681 | 0.13861 | -0.41 | -0.03885 | 0.2249 | 0.20123 |
| 50 | 2.9847 | 3.1729 | 3.2825 | 0.11228 | 2.9355 | 3.2176 | 3.3573 | 0.1398 | -0.3306 | 0.04472 | 0.2829 | 0.19469 |

# Device Test: 17.44  TPD_EN(_DELAY|STEP_DOWN/EN2/7/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.6125 | 3.4416 | -0.1709 |
| 2 | 20 | Bias | 3.5581 | 3.3444 | -0.2137 |
| 3 | 20 | Bias | 3.3156 | 3.5624 | 0.2468 |
| 4 | 20 | Bias | 3.0883 | 3.4156 | 0.3273 |
| 5 | 20 | Bias | 3.3898 | 3.3365 | -0.0533 |
| 6 | 20 | Unbiased | 3.4444 | 3.3209 | -0.1235 |
| 7 | 20 | Unbiased | 3.2676 | 3.4367 | 0.1691 |
| 8 | 20 | Unbiased | 3.4601 | 3.2757 | -0.1844 |
| 9 | 20 | Unbiased | 3.1799 | 3.4912 | 0.3113 |
| 10 | 20 | Unbiased | 3.373 | 3.3819 | 0.0089 |
| 11 | 30 | Bias | 3.3594 | 3.0898 | -0.2696 |
| 12 | 30 | Bias | 3.0277 | 3.4303 | 0.4026 |
| 13 | 30 | Bias | 3.2434 | 3.2482 | 0.0048 |
| 14 | 30 | Bias | 3.3098 | 3.1582 | -0.1516 |
| 15 | 30 | Bias | 3.4217 | 3.2156 | -0.2061 |
| 16 | 30 | Unbiased | 3.3383 | 3.4336 | 0.0953 |
| 17 | 30 | Unbiased | 3.3481 | 3.409 | 0.0609 |
| 18 | 30 | Unbiased | 3.3366 | 3.4913 | 0.1547 |
| 19 | 30 | Unbiased | 3.3649 | 3.4247 | 0.0598 |
| 20 | 30 | Unbiased | 3.2376 | 3.4839 | 0.2463 |
| 21 | 50 | Bias | 3.4187 | 3.4155 | -0.0032 |
| 22 | 50 | Bias | 3.4151 | 3.2596 | -0.1555 |
| 23 | 50 | Bias | 3.249 | 3.4093 | 0.1603 |
| 24 | 50 | Bias | 3.4665 | 3.5071 | 0.0406 |
| 25 | 50 | Bias | 3.4379 | 3.5174 | 0.0795 |
| 26 | 50 | Unbiased | 3.247 | 3.481 | 0.234 |
| 27 | 50 | Unbiased | 3.2234 | 3.498 | 0.2746 |
| 28 | 50 | Unbiased | 3.1058 | 3.348 | 0.2422 |
| 29 | 50 | Unbiased | 3.4882 | 3.2258 | -0.2624 |
| 30 | 50 | Unbiased | 3.4784 | 3.2221 | -0.2563 |
| 31 | 0 | Correlation | 3.3299 | 3.3704 | 0.0405 |
| 32 | 0 | Correlation | 3.5442 | 3.4095 | -0.1347 |
| 33 | 0 | Correlation | 3.4576 | 3.4861 | 0.0285 |
| 34 | 0 | Correlation | 3.3155 | 3.2709 | -0.0446 |

## Test Statistics (uSec)
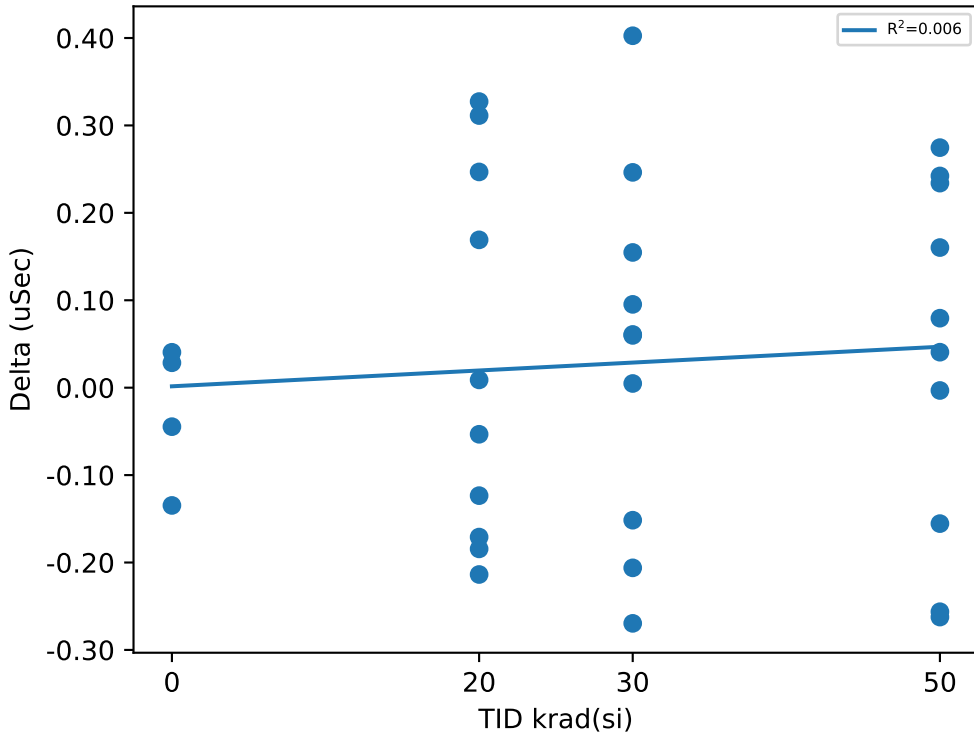
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.3155 | 3.4118 | 3.5442 | 0.10895 | 3.2709 | 3.3842 | 3.4861 | 0.089538 | -0.1347 | -0.027575 | 0.0405 | 0.080714 |
| 20 | 3.0883 | 3.3689 | 3.6125 | 0.16233 | 3.2757 | 3.4007 | 3.5624 | 0.086388 | -0.2137 | 0.03176 | 0.3273 | 0.21357 |
| 30 | 3.0277 | 3.2987 | 3.4217 | 0.11005 | 3.0898 | 3.3385 | 3.4913 | 0.14605 | -0.2696 | 0.03971 | 0.4026 | 0.20695 |
| 50 | 3.1058 | 3.353 | 3.4882 | 0.13426 | 3.2221 | 3.3884 | 3.5174 | 0.11776 | -0.2624 | 0.03538 | 0.2746 | 0.2024 |

# Device Test: 17.45  TPD_EN(_DELAY|STEP_DOWN/EN3/7/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

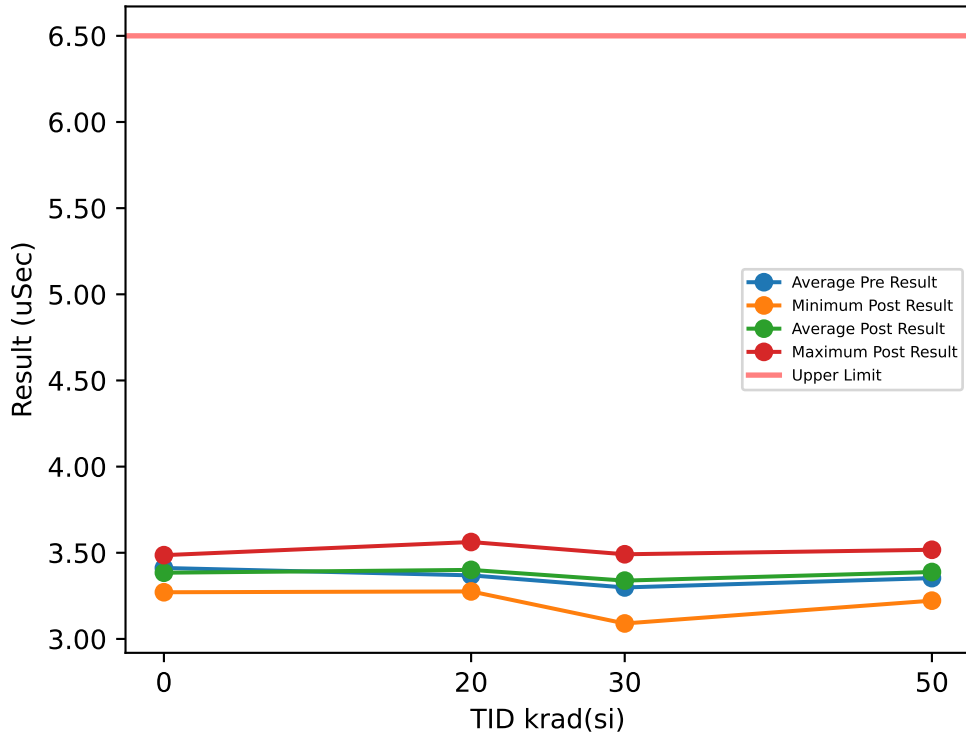| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 3.3414 | 3.3185 | -0.0229 |
| 2 | 20 | Bias | 3.5426 | 3.4861 | -0.0565 |
| 3 | 20 | Bias | 3.452 | 3.5874 | 0.1354 |
| 4 | 20 | Bias | 3.0777 | 3.3933 | 0.3156 |
| 5 | 20 | Bias | 3.3298 | 3.1829 | -0.1469 |
| 6 | 20 | Unbiased | 3.0953 | 3.3114 | 0.2161 |
| 7 | 20 | Unbiased | 3.1325 | 3.293 | 0.1605 |
| 8 | 20 | Unbiased | 3.1488 | 3.3636 | 0.2148 |
| 9 | 20 | Unbiased | 3.3123 | 3.4626 | 0.1503 |
| 10 | 20 | Unbiased | 3.2173 | 3.4279 | 0.2106 |
| 11 | 30 | Bias | 3.3328 | 3.2953 | -0.0375 |
| 12 | 30 | Bias | 3.1279 | 3.4715 | 0.3436 |
| 13 | 30 | Bias | 3.1783 | 3.4509 | 0.2726 |
| 14 | 30 | Bias | 3.4482 | 3.5389 | 0.0907 |
| 15 | 30 | Bias | 3.3255 | 3.4272 | 0.1017 |
| 16 | 30 | Unbiased | 3.5661 | 3.1817 | -0.3844 |
| 17 | 30 | Unbiased | 3.2355 | 3.4072 | 0.1717 |
| 18 | 30 | Unbiased | 3.4419 | 3.5166 | 0.0747 |
| 19 | 30 | Unbiased | 3.5123 | 3.1961 | -0.3162 |
| 20 | 30 | Unbiased | 3.0981 | 3.3401 | 0.242 |
| 21 | 50 | Bias | 3.1534 | 3.2454 | 0.092 |
| 22 | 50 | Bias | 3.1927 | 3.3931 | 0.2004 |
| 23 | 50 | Bias | 3.3383 | 3.4726 | 0.1343 |
| 24 | 50 | Bias | 3.5082 | 3.3974 | -0.1108 |
| 25 | 50 | Bias | 3.228 | 3.1652 | -0.0628 |
| 26 | 50 | Unbiased | 3.237 | 3.2214 | -0.0156 |
| 27 | 50 | Unbiased | 3.3075 | 3.3961 | 0.0886 |
| 28 | 50 | Unbiased | 3.1723 | 3.3677 | 0.1954 |
| 29 | 50 | Unbiased | 3.3228 | 3.2555 | -0.0673 |
| 30 | 50 | Unbiased | 3.2311 | 3.3876 | 0.1565 |
| 31 | 0 | Correlation | 3.679 | 3.3234 | -0.3556 |
| 32 | 0 | Correlation | 3.1932 | 3.3816 | 0.1884 |
| 33 | 0 | Correlation | 3.1748 | 3.1935 | 0.0187 |
| 34 | 0 | Correlation | 3.5076 | 3.153 | -0.3546 |

## Test Statistics (uSec)
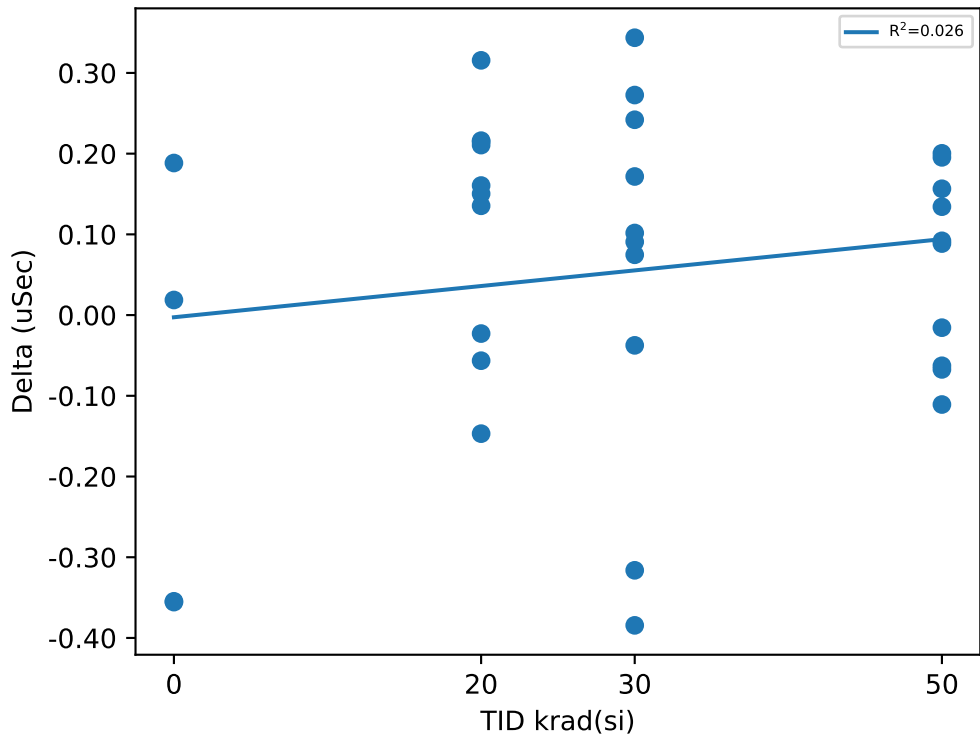
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.1748 | 3.3887 | 3.679 | 0.24657 | 3.153 | 3.2629 | 3.3816 | 0.10746 | -0.3556 | -0.12577 | 0.1884 | 0.27371 |
| 20 | 3.0777 | 3.265 | 3.5426 | 0.15689 | 3.1829 | 3.3827 | 3.5874 | 0.11483 | -0.1469 | 0.1177 | 0.3156 | 0.14539 |
| 30 | 3.0981 | 3.3267 | 3.5661 | 0.16396 | 3.1817 | 3.3825 | 3.5389 | 0.12566 | -0.3844 | 0.05589 | 0.3436 | 0.24094 |
| 50 | 3.1534 | 3.2691 | 3.5082 | 0.10492 | 3.1652 | 3.3302 | 3.4726 | 0.099793 | -0.1108 | 0.06107 | 0.2004 | 0.11589 |
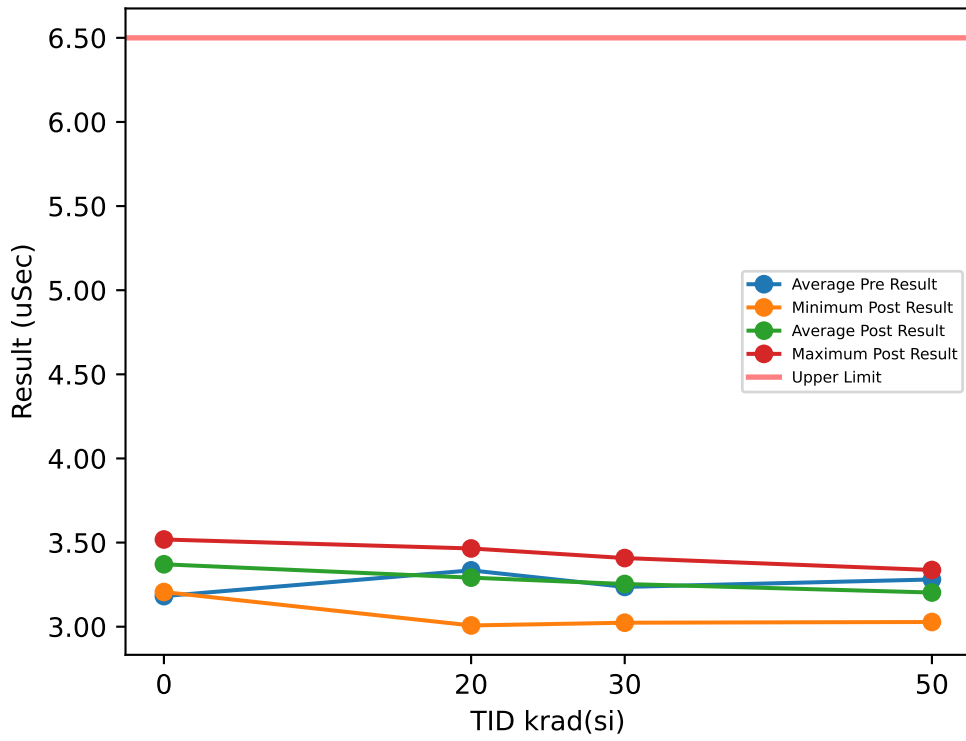
# Device Test: 17.46  TPD_EN(_DELAY|STEP_DOWN/EN4/7/14/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

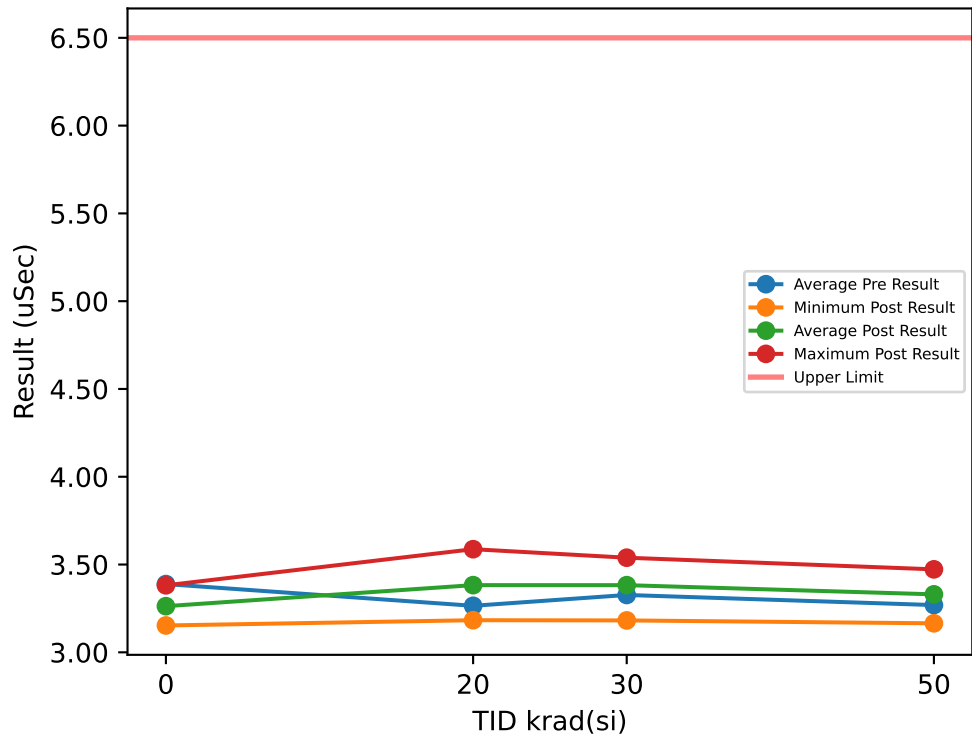| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 3.5511 | 3.4112 | -0.1399 |
| 2 | 20 | Bias | 3.5454 | 3.3864 | -0.159 |
| 3 | 20 | Bias | 3.121 | 3.3434 | 0.2224 |
| 4 | 20 | Bias | 3.4653 | 3.4651 | -0.0002 |
| 5 | 20 | Bias | 3.1137 | 3.2297 | 0.116 |
| 6 | 20 | Unbiased | 3.2881 | 3.0074 | -0.2807 |
| 7 | 20 | Unbiased | 3.0405 | 3.3097 | 0.2692 |
| 8 | 20 | Unbiased | 3.3507 | 3.1261 | -0.2246 |
| 9 | 20 | Unbiased | 3.5167 | 3.3196 | -0.1971 |
| 10 | 20 | Unbiased | 3.3557 | 3.3167 | -0.039 |
| 11 | 30 | Bias | 3.2893 | 3.3528 | 0.0635 |
| 12 | 30 | Bias | 3.113 | 3.3005 | 0.1875 |
| 13 | 30 | Bias | 3.4991 | 3.0237 | -0.4754 |
| 14 | 30 | Bias | 3.1627 | 3.408 | 0.2453 |
| 15 | 30 | Bias | 3.1584 | 3.0486 | -0.1098 |
| 16 | 30 | Unbiased | 3.2544 | 3.2209 | -0.0335 |
| 17 | 30 | Unbiased | 3.1967 | 3.3288 | 0.1321 |
| 18 | 30 | Unbiased | 3.249 | 3.3429 | 0.0939 |
| 19 | 30 | Unbiased | 3.0624 | 3.1269 | 0.0645 |
| 20 | 30 | Unbiased | 3.3789 | 3.3856 | 0.0067 |
| 21 | 50 | Bias | 3.5774 | 3.2423 | -0.3351 |
| 22 | 50 | Bias | 3.324 | 3.313 | -0.011 |
| 23 | 50 | Bias | 2.8708 | 3.0284 | 0.1576 |
| 24 | 50 | Bias | 3.5014 | 3.3048 | -0.1966 |
| 25 | 50 | Bias | 3.1466 | 3.2392 | 0.0926 |
| 26 | 50 | Unbiased | 3.4486 | 3.2452 | -0.2034 |
| 27 | 50 | Unbiased | 3.2386 | 3.1754 | -0.0632 |
| 28 | 50 | Unbiased | 3.1885 | 3.3369 | 0.1484 |
| 29 | 50 | Unbiased | 3.3765 | 3.1179 | -0.2586 |
| 30 | 50 | Unbiased | 3.135 | 3.028 | -0.107 |
| 31 | 0 | Correlation | 3.1487 | 3.5184 | 0.3697 |
| 32 | 0 | Correlation | 3.223 | 3.206 | -0.017 |
| 33 | 0 | Correlation | 3.207 | 3.3276 | 0.1206 |
| 34 | 0 | Correlation | 3.1486 | 3.4316 | 0.283 |

## Test Statistics (uSec)
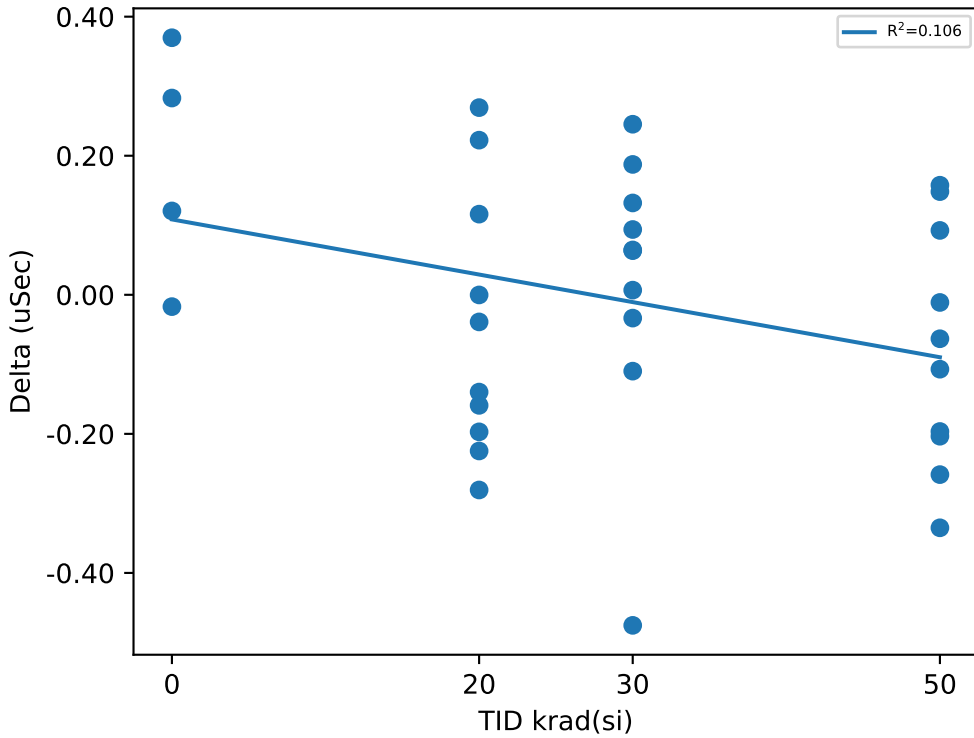
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.1486 | 3.1818 | 3.223 | 0.03886 | 3.206 | 3.3709 | 3.5184 | 0.13479 | -0.017 | 0.18908 | 0.3697 | 0.17186 |
| 20 | 3.0405 | 3.3348 | 3.5511 | 0.19013 | 3.0074 | 3.2915 | 3.4651 | 0.13736 | -0.2807 | -0.04329 | 0.2692 | 0.19181 |
| 30 | 3.0624 | 3.2364 | 3.4991 | 0.12961 | 3.0237 | 3.2539 | 3.408 | 0.141 | -0.4754 | 0.01748 | 0.2453 | 0.20165 |
| 50 | 2.8708 | 3.2807 | 3.5774 | 0.20909 | 3.028 | 3.2031 | 3.3369 | 0.11262 | -0.3351 | -0.07763 | 0.1576 | 0.17318 |
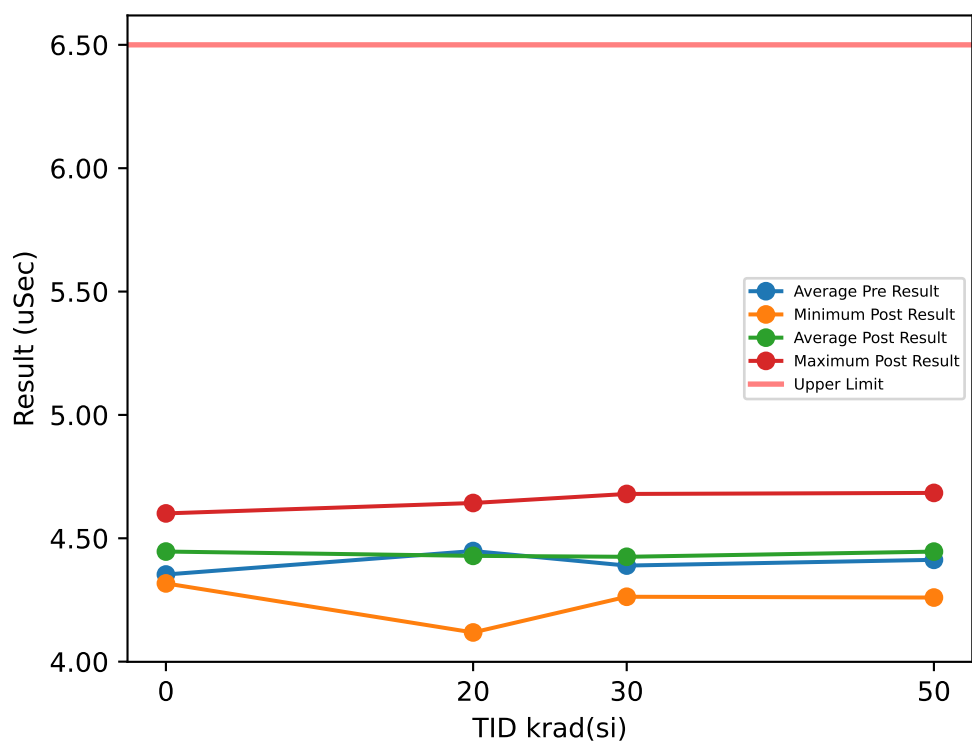
# Device Test: 17.47  TPD_SEQ_DONE(_DELAY|STEP_DOWN/SEQ_DONE/7/14/0/0/0/@TPD_SEQ_DONE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 4.3482 | 4.4872 | 0.139 |
| 2 | 20 | Bias | 4.5162 | 4.4109 | -0.1053 |
| 3 | 20 | Bias | 4.5748 | 4.643 | 0.0682 |
| 4 | 20 | Bias | 4.5553 | 4.5295 | -0.0258 |
| 5 | 20 | Bias | 4.3469 | 4.5475 | 0.2006 |
| 6 | 20 | Unbiased | 4.3419 | 4.2097 | -0.1322 |
| 7 | 20 | Unbiased | 4.432 | 4.6258 | 0.1938 |
| 8 | 20 | Unbiased | 4.2791 | 4.2284 | -0.0507 |
| 9 | 20 | Unbiased | 4.6483 | 4.1183 | -0.53 |
| 10 | 20 | Unbiased | 4.4403 | 4.4874 | 0.0471 |
| 11 | 30 | Bias | 4.6188 | 4.6797 | 0.0609 |
| 12 | 30 | Bias | 4.1931 | 4.263 | 0.0699 |
| 13 | 30 | Bias | 4.1721 | 4.3922 | 0.2201 |
| 14 | 30 | Bias | 4.5045 | 4.3227 | -0.1818 |
| 15 | 30 | Bias | 4.425 | 4.3556 | -0.0694 |
| 16 | 30 | Unbiased | 4.3676 | 4.4769 | 0.1093 |
| 17 | 30 | Unbiased | 4.2276 | 4.4978 | 0.2702 |
| 18 | 30 | Unbiased | 4.3437 | 4.4398 | 0.0961 |
| 19 | 30 | Unbiased | 4.5397 | 4.3073 | -0.2324 |
| 20 | 30 | Unbiased | 4.5017 | 4.5146 | 0.0129 |
| 21 | 50 | Bias | 4.4657 | 4.455 | -0.0107 |
| 22 | 50 | Bias | 4.5667 | 4.4607 | -0.106 |
| 23 | 50 | Bias | 4.1322 | 4.4481 | 0.3159 |
| 24 | 50 | Bias | 4.2524 | 4.3511 | 0.0987 |
| 25 | 50 | Bias | 4.3948 | 4.2598 | -0.135 |
| 26 | 50 | Unbiased | 4.3251 | 4.5502 | 0.2251 |
| 27 | 50 | Unbiased | 4.4907 | 4.4793 | -0.0114 |
| 28 | 50 | Unbiased | 4.4466 | 4.2928 | -0.1538 |
| 29 | 50 | Unbiased | 4.7535 | 4.6839 | -0.0696 |
| 30 | 50 | Unbiased | 4.2989 | 4.4789 | 0.18 |
| 31 | 0 | Correlation | 4.3524 | 4.6008 | 0.2484 |
| 32 | 0 | Correlation | 4.1828 | 4.4294 | 0.2466 |
| 33 | 0 | Correlation | 4.4313 | 4.4376 | 0.0063 |
| 34 | 0 | Correlation | 4.4463 | 4.3171 | -0.1292 |

## Test Statistics (uSec)
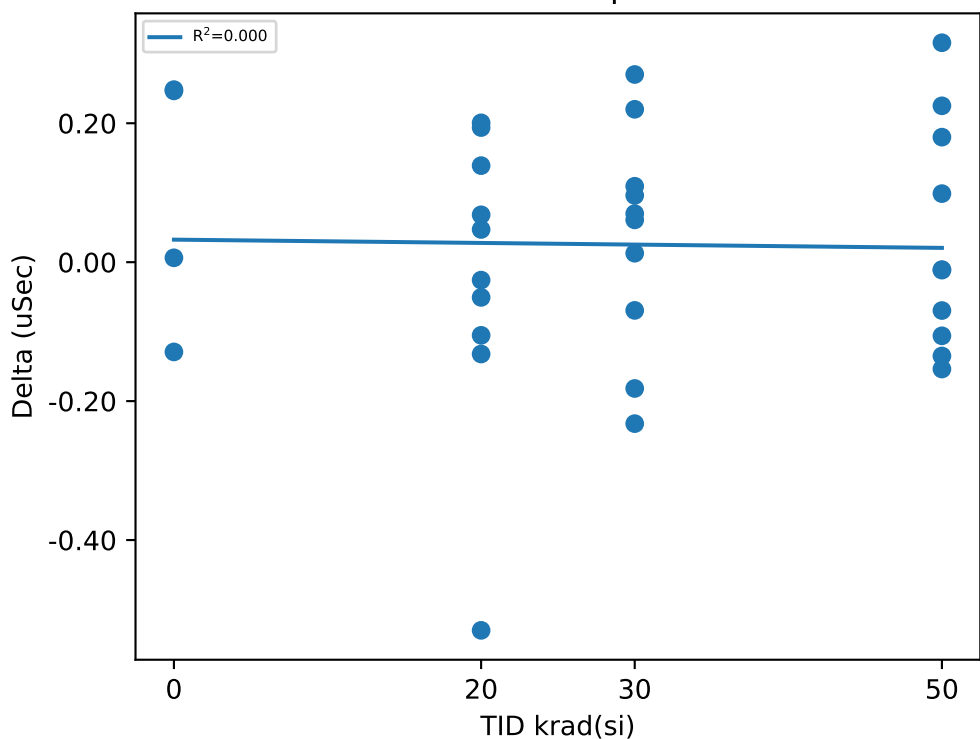
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 4.1828 | 4.3532 | 4.4463 | 0.12084 | 4.3171 | 4.4462 | 4.6008 | 0.1168 | -0.1292 | 0.093025 | 0.2484 | 0.18675 |
| 20 | 4.2791 | 4.4483 | 4.6483 | 0.1214 | 4.1183 | 4.4288 | 4.643 | 0.18278 | -0.53 | -0.01953 | 0.2006 | 0.21418 |
| 30 | 4.1721 | 4.3894 | 4.6188 | 0.15522 | 4.263 | 4.425 | 4.6797 | 0.12363 | -0.2324 | 0.03558 | 0.2702 | 0.16007 |
| 50 | 4.1322 | 4.4127 | 4.7535 | 0.17487 | 4.2598 | 4.446 | 4.6839 | 0.12342 | -0.1538 | 0.03332 | 0.3159 | 0.1632 |
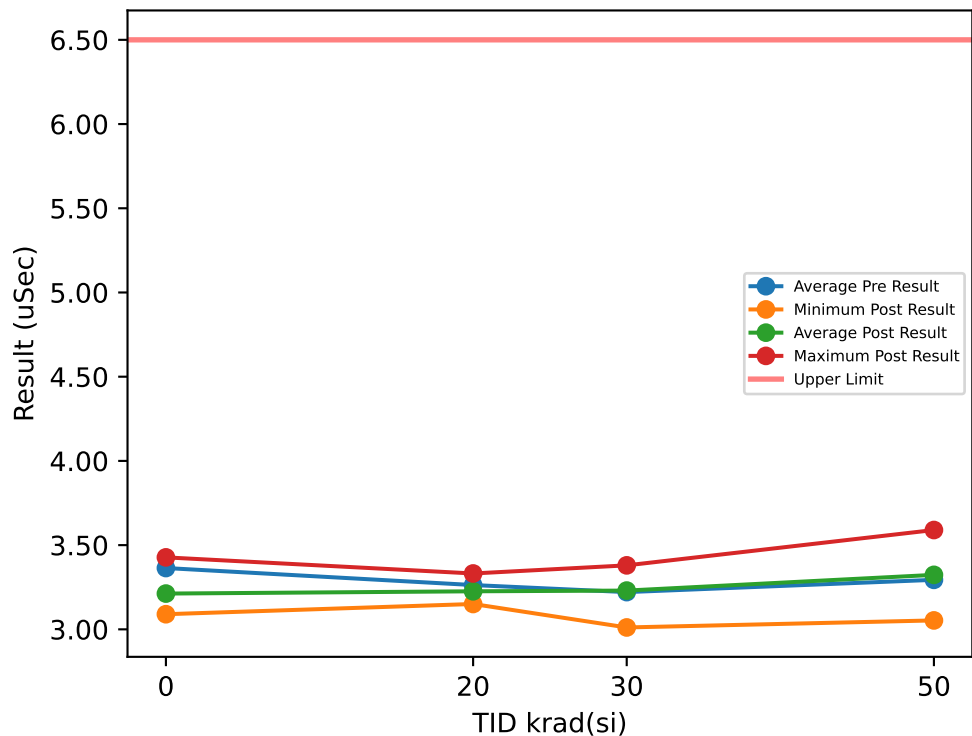
# Device Test: 17.48  TPD_PWRGD(_DELAY|STEP_DOWN/PWRGD/7/14/0/0/0/@TPD_PWRGD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.1862 | 3.2934 | 0.1072 |
| 2 | 20 | Bias | 3.1967 | 3.2289 | 0.0322 |
| 3 | 20 | Bias | 3.2952 | 3.3317 | 0.0365 |
| 4 | 20 | Bias | 3.2304 | 3.1644 | -0.066 |
| 5 | 20 | Bias | 3.2268 | 3.3055 | 0.0787 |
| 6 | 20 | Unbiased | 3.3315 | 3.1841 | -0.1474 |
| 7 | 20 | Unbiased | 3.413 | 3.1505 | -0.2625 |
| 8 | 20 | Unbiased | 3.294 | 3.1649 | -0.1291 |
| 9 | 20 | Unbiased | 3.3252 | 3.2571 | -0.0681 |
| 10 | 20 | Unbiased | 3.1312 | 3.1783 | 0.0471 |
| 11 | 30 | Bias | 3.5683 | 3.3248 | -0.2435 |
| 12 | 30 | Bias | 3.2552 | 3.2086 | -0.0466 |
| 13 | 30 | Bias | 3.2734 | 3.0112 | -0.2622 |
| 14 | 30 | Bias | 3.2802 | 3.3799 | 0.0997 |
| 15 | 30 | Bias | 3.0855 | 3.1611 | 0.0756 |
| 16 | 30 | Unbiased | 3.1221 | 3.2187 | 0.0966 |
| 17 | 30 | Unbiased | 3.3121 | 3.0528 | -0.2593 |
| 18 | 30 | Unbiased | 3.0809 | 3.3744 | 0.2935 |
| 19 | 30 | Unbiased | 3.225 | 3.1943 | -0.0307 |
| 20 | 30 | Unbiased | 3.0084 | 3.3758 | 0.3674 |
| 21 | 50 | Bias | 3.3354 | 3.1995 | -0.1359 |
| 22 | 50 | Bias | 3.1673 | 3.5701 | 0.4028 |
| 23 | 50 | Bias | 3.2172 | 3.5897 | 0.3725 |
| 24 | 50 | Bias | 3.2433 | 3.2925 | 0.0492 |
| 25 | 50 | Bias | 3.432 | 3.2222 | -0.2098 |
| 26 | 50 | Unbiased | 3.2132 | 3.4711 | 0.2579 |
| 27 | 50 | Unbiased | 3.3164 | 3.053 | -0.2634 |
| 28 | 50 | Unbiased | 3.1654 | 3.2207 | 0.0553 |
| 29 | 50 | Unbiased | 3.5297 | 3.3404 | -0.1893 |
| 30 | 50 | Unbiased | 3.3194 | 3.2754 | -0.044 |
| 31 | 0 | Correlation | 3.2676 | 3.1324 | -0.1352 |
| 32 | 0 | Correlation | 3.3924 | 3.0898 | -0.3026 |
| 33 | 0 | Correlation | 3.4913 | 3.2 | -0.2913 |
| 34 | 0 | Correlation | 3.3048 | 3.4273 | 0.1225 |

## Test Statistics (uSec)
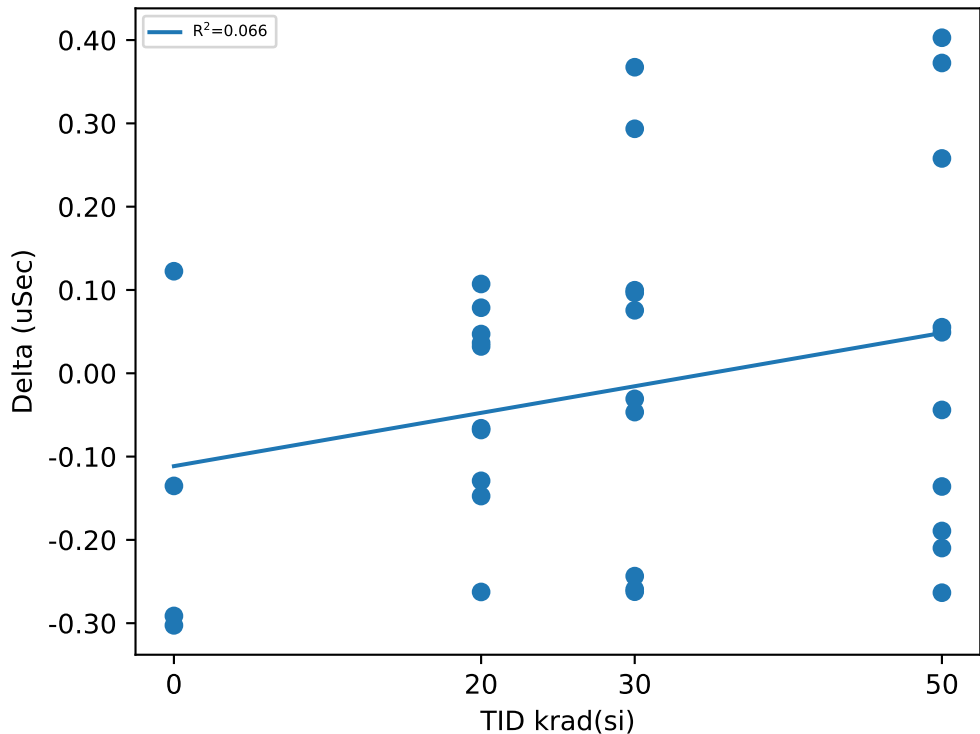
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.2676 | 3.364 | 3.4913 | 0.099682 | 3.0898 | 3.2124 | 3.4273 | 0.1503 | -0.3026 | -0.15165 | 0.1225 | 0.19809 |
| 20 | 3.1312 | 3.263 | 3.413 | 0.083731 | 3.1505 | 3.2259 | 3.3317 | 0.066891 | -0.2625 | -0.03714 | 0.1072 | 0.11774 |
| 30 | 3.0084 | 3.2211 | 3.5683 | 0.15962 | 3.0112 | 3.2302 | 3.3799 | 0.1331 | -0.2622 | 0.00905 | 0.3674 | 0.22203 |
| 50 | 3.1654 | 3.2939 | 3.5297 | 0.11787 | 3.053 | 3.3235 | 3.5897 | 0.17205 | -0.2634 | 0.02953 | 0.4028 | 0.24356 |
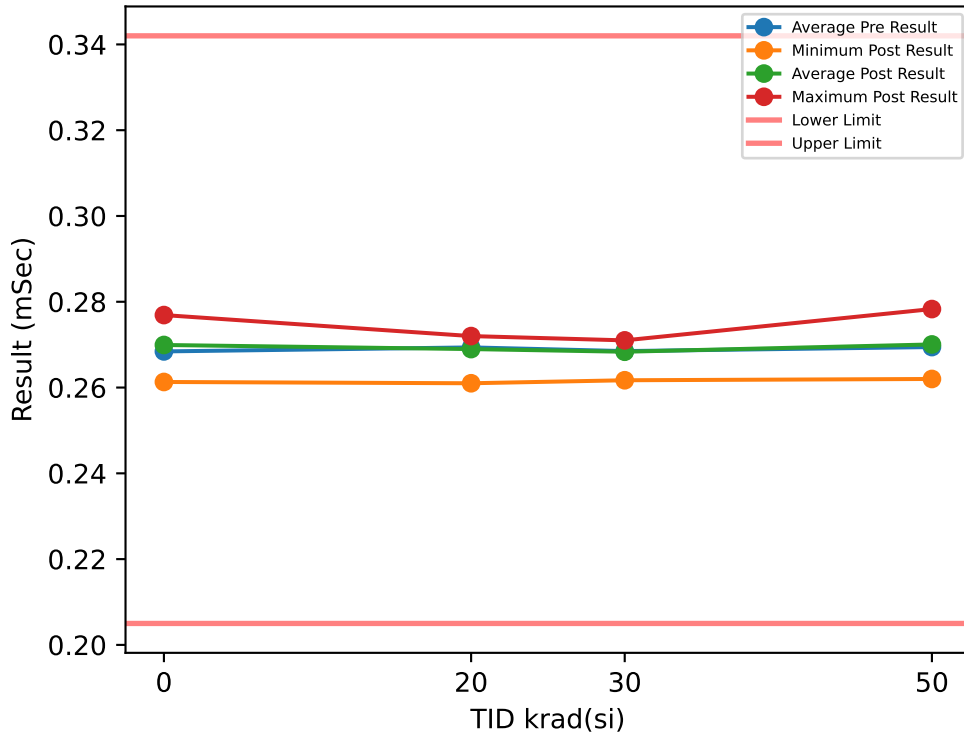
# Device Test: 17.49  DLY_TMR_10KOHM(_DELAY|STEP_UP/EN1/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2736 | 0.272 | -0.0016 |
| 2 | 20 | Bias | 0.272 | 0.2718 | -0.0002 |
| 3 | 20 | Bias | 0.2695 | 0.2696 | 0.0001 |
| 4 | 20 | Bias | 0.2717 | 0.2707 | -0.001 |
| 5 | 20 | Bias | 0.2677 | 0.2688 | 0.0011 |
| 6 | 20 | Unbiased | 0.2624 | 0.261 | -0.0014 |
| 7 | 20 | Unbiased | 0.2699 | 0.269 | -0.0009 |
| 8 | 20 | Unbiased | 0.2695 | 0.269 | -0.0005 |
| 9 | 20 | Unbiased | 0.2701 | 0.2699 | -0.0002 |
| 10 | 20 | Unbiased | 0.2672 | 0.2679 | 0.0007 |
| 11 | 30 | Bias | 0.2624 | 0.2687 | 0.0063 |
| 12 | 30 | Bias | 0.2704 | 0.2635 | -0.0069 |
| 13 | 30 | Bias | 0.2708 | 0.2697 | -0.0011 |
| 14 | 30 | Bias | 0.269 | 0.2695 | 0.0005 |
| 15 | 30 | Bias | 0.2716 | 0.2688 | -0.0028 |
| 16 | 30 | Unbiased | 0.2696 | 0.271 | 0.0014 |
| 17 | 30 | Unbiased | 0.2695 | 0.2708 | 0.0013 |
| 18 | 30 | Unbiased | 0.2699 | 0.2694 | -0.0005 |
| 19 | 30 | Unbiased | 0.2614 | 0.2704 | 0.009 |
| 20 | 30 | Unbiased | 0.2704 | 0.2617 | -0.0087 |
| 21 | 50 | Bias | 0.2624 | 0.2705 | 0.0081 |
| 22 | 50 | Bias | 0.2623 | 0.2643 | 0.002 |
| 23 | 50 | Bias | 0.2727 | 0.262 | -0.0107 |
| 24 | 50 | Bias | 0.269 | 0.2711 | 0.0021 |
| 25 | 50 | Bias | 0.2773 | 0.2783 | 0.001 |
| 26 | 50 | Unbiased | 0.2727 | 0.2724 | -0.0003 |
| 27 | 50 | Unbiased | 0.2696 | 0.268 | -0.0016 |
| 28 | 50 | Unbiased | 0.2681 | 0.2692 | 0.0011 |
| 29 | 50 | Unbiased | 0.2711 | 0.2729 | 0.0018 |
| 30 | 50 | Unbiased | 0.2692 | 0.2718 | 0.0026 |
| 31 | 0 | Correlation | 0.2699 | 0.2716 | 0.0017 |
| 32 | 0 | Correlation | 0.2599 | 0.2613 | 0.0014 |
| 33 | 0 | Correlation | 0.2768 | 0.2769 | 0.0001 |
| 34 | 0 | Correlation | 0.2671 | 0.2699 | 0.0028 |

## Test Statistics (mSec)
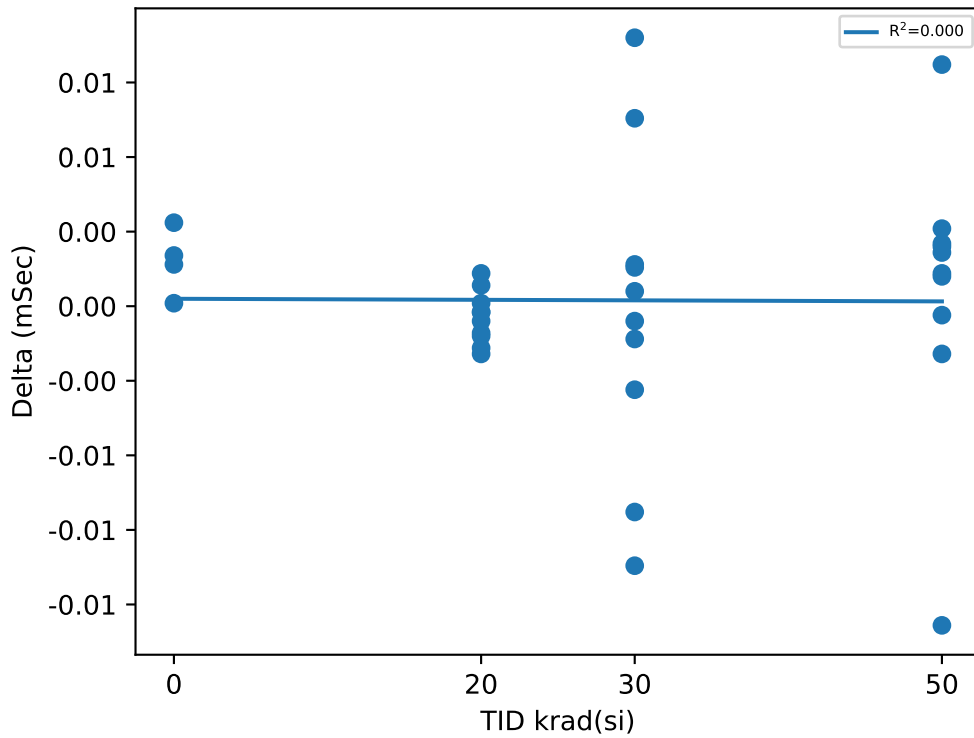
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2599 | 0.26843 | 0.2768 | 0.006994 | 0.2613 | 0.26992 | 0.2769 | 0.0064768 | 0.0001 | 0.0015 | 0.0028 | 0.0011106 |
| 20 | 0.2624 | 0.26936 | 0.2736 | 0.0031121 | 0.261 | 0.26897 | 0.272 | 0.0030937 | -0.0016 | -0.00039 | 0.0011 | 0.00087235 |
| 30 | 0.2614 | 0.2685 | 0.2716 | 0.0035615 | 0.2617 | 0.26835 | 0.271 | 0.0031543 | -0.0087 | -0.00015 | 0.009 | 0.0053434 |
| 50 | 0.2623 | 0.26944 | 0.2773 | 0.0045753 | 0.262 | 0.27005 | 0.2783 | 0.0045809 | -0.0107 | 0.00061 | 0.0081 | 0.0047099 |
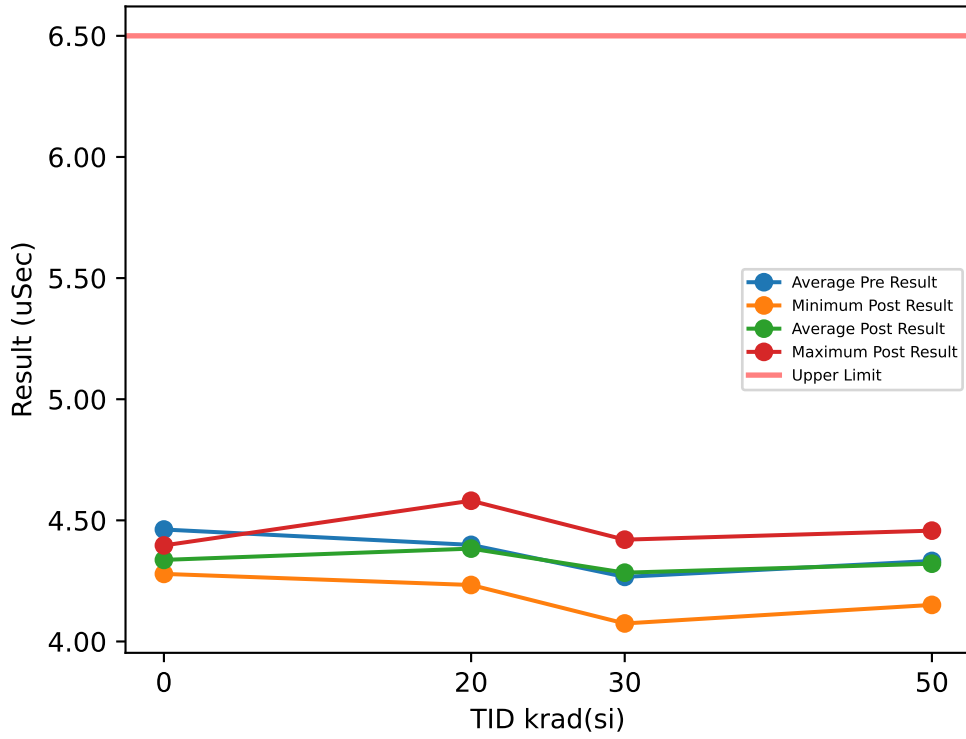
# Device Test: 17.5   TPD_SEQ_DONE(_DELAY|STEP_UP/SEQ_DONE/1.6/3/0/0/0/@TPD_SEQ_DONE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 4.3762 | 4.4695 | 0.0933 |
| 2 | 20 | Bias | 4.541 | 4.581 | 0.04 |
| 3 | 20 | Bias | 4.3552 | 4.4548 | 0.0996 |
| 4 | 20 | Bias | 4.4711 | 4.3981 | -0.073 |
| 5 | 20 | Bias | 4.3883 | 4.2433 | -0.145 |
| 6 | 20 | Unbiased | 4.5411 | 4.4223 | -0.1188 |
| 7 | 20 | Unbiased | 4.3966 | 4.3043 | -0.0923 |
| 8 | 20 | Unbiased | 4.2423 | 4.3267 | 0.0844 |
| 9 | 20 | Unbiased | 4.3508 | 4.4002 | 0.0494 |
| 10 | 20 | Unbiased | 4.3253 | 4.2332 | -0.0921 |
| 11 | 30 | Bias | 4.4899 | 4.3073 | -0.1826 |
| 12 | 30 | Bias | 4.1576 | 4.3404 | 0.1828 |
| 13 | 30 | Bias | 4.2544 | 4.4038 | 0.1494 |
| 14 | 30 | Bias | 4.1929 | 4.3136 | 0.1207 |
| 15 | 30 | Bias | 4.0706 | 4.2659 | 0.1953 |
| 16 | 30 | Unbiased | 4.404 | 4.0744 | -0.3296 |
| 17 | 30 | Unbiased | 4.4106 | 4.4203 | 0.0097 |
| 18 | 30 | Unbiased | 4.2788 | 4.2788 | 0 |
| 19 | 30 | Unbiased | 4.21 | 4.1125 | -0.0975 |
| 20 | 30 | Unbiased | 4.1976 | 4.3236 | 0.126 |
| 21 | 50 | Bias | 4.2672 | 4.4162 | 0.149 |
| 22 | 50 | Bias | 4.5347 | 4.2248 | -0.3099 |
| 23 | 50 | Bias | 4.3565 | 4.151 | -0.2055 |
| 24 | 50 | Bias | 4.4016 | 4.4575 | 0.0559 |
| 25 | 50 | Bias | 4.2553 | 4.4075 | 0.1522 |
| 26 | 50 | Unbiased | 4.3239 | 4.3192 | -0.0047 |
| 27 | 50 | Unbiased | 4.4804 | 4.3766 | -0.1038 |
| 28 | 50 | Unbiased | 4.19 | 4.3122 | 0.1222 |
| 29 | 50 | Unbiased | 4.3344 | 4.3674 | 0.033 |
| 30 | 50 | Unbiased | 4.1807 | 4.1787 | -0.002 |
| 31 | 0 | Correlation | 4.5958 | 4.279 | -0.3168 |
| 32 | 0 | Correlation | 4.5541 | 4.2882 | -0.2659 |
| 33 | 0 | Correlation | 4.1597 | 4.3834 | 0.2237 |
| 34 | 0 | Correlation | 4.5393 | 4.3965 | -0.1428 |

## Test Statistics (uSec)
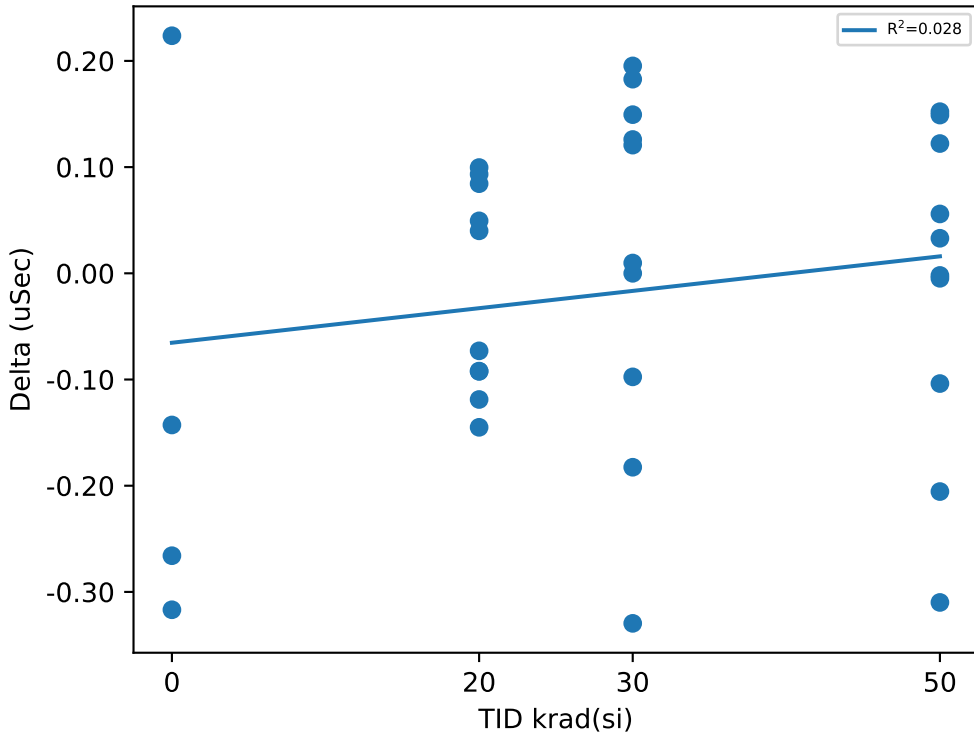
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 4.1597 | 4.4622 | 4.5958 | 0.2031 | 4.279 | 4.3368 | 4.3965 | 0.061748 | -0.3168 | -0.12545 | 0.2237 | 0.24396 |
| 20 | 4.2423 | 4.3988 | 4.5411 | 0.09453 | 4.2332 | 4.3833 | 4.581 | 0.10813 | -0.145 | -0.01545 | 0.0996 | 0.097109 |
| 30 | 4.0706 | 4.2666 | 4.4899 | 0.13058 | 4.0744 | 4.2841 | 4.4203 | 0.11195 | -0.3296 | 0.01742 | 0.1953 | 0.17412 |
| 50 | 4.1807 | 4.3325 | 4.5347 | 0.11631 | 4.151 | 4.3211 | 4.4575 | 0.10483 | -0.3099 | -0.01136 | 0.1522 | 0.15358 |
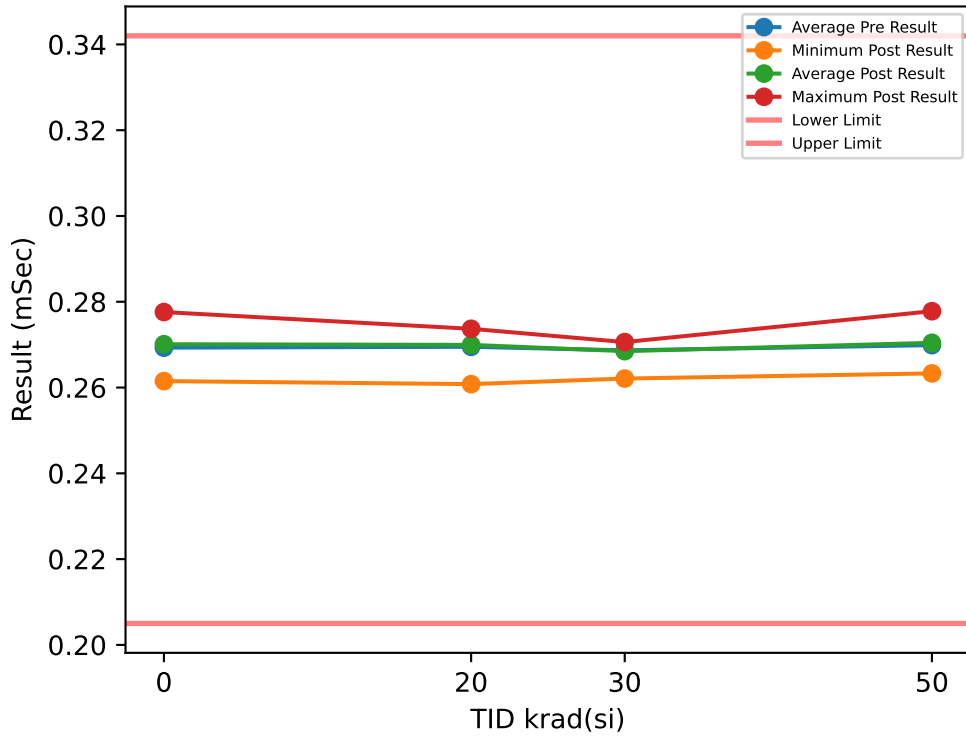
# Device Test: 17.50  DLY_TMR_10KOHM(_DELAY|STEP_UP/EN2/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2737 | 0.2737 | 0 |
| 2 | 20 | Bias | 0.2724 | 0.2735 | 0.0011 |
| 3 | 20 | Bias | 0.2699 | 0.2704 | 0.0005 |
| 4 | 20 | Bias | 0.2719 | 0.2713 | -0.0006 |
| 5 | 20 | Bias | 0.2684 | 0.2695 | 0.0011 |
| 6 | 20 | Unbiased | 0.2615 | 0.2608 | -0.0007 |
| 7 | 20 | Unbiased | 0.2686 | 0.2683 | -0.0003 |
| 8 | 20 | Unbiased | 0.2705 | 0.272 | 0.0015 |
| 9 | 20 | Unbiased | 0.2704 | 0.2728 | 0.0024 |
| 10 | 20 | Unbiased | 0.2677 | 0.2672 | -0.0005 |
| 11 | 30 | Bias | 0.2626 | 0.2695 | 0.0069 |
| 12 | 30 | Bias | 0.2701 | 0.2633 | -0.0068 |
| 13 | 30 | Bias | 0.2718 | 0.2696 | -0.0022 |
| 14 | 30 | Bias | 0.2695 | 0.2703 | 0.0008 |
| 15 | 30 | Bias | 0.2713 | 0.2695 | -0.0018 |
| 16 | 30 | Unbiased | 0.2678 | 0.2702 | 0.0024 |
| 17 | 30 | Unbiased | 0.2705 | 0.27 | -0.0005 |
| 18 | 30 | Unbiased | 0.2711 | 0.2706 | -0.0005 |
| 19 | 30 | Unbiased | 0.2615 | 0.2697 | 0.0082 |
| 20 | 30 | Unbiased | 0.2706 | 0.2621 | -0.0085 |
| 21 | 50 | Bias | 0.2626 | 0.272 | 0.0094 |
| 22 | 50 | Bias | 0.2613 | 0.2643 | 0.003 |
| 23 | 50 | Bias | 0.2715 | 0.2633 | -0.0082 |
| 24 | 50 | Bias | 0.2709 | 0.2715 | 0.0006 |
| 25 | 50 | Bias | 0.2781 | 0.2778 | -0.0003 |
| 26 | 50 | Unbiased | 0.2746 | 0.2732 | -0.0014 |
| 27 | 50 | Unbiased | 0.2695 | 0.2692 | -0.0003 |
| 28 | 50 | Unbiased | 0.2689 | 0.2692 | 0.0003 |
| 29 | 50 | Unbiased | 0.2715 | 0.2726 | 0.0011 |
| 30 | 50 | Unbiased | 0.27 | 0.2712 | 0.0012 |
| 31 | 0 | Correlation | 0.269 | 0.2713 | 0.0023 |
| 32 | 0 | Correlation | 0.261 | 0.2615 | 0.0005 |
| 33 | 0 | Correlation | 0.2781 | 0.2776 | -0.0005 |
| 34 | 0 | Correlation | 0.2691 | 0.27 | 0.0009 |

## Test Statistics (mSec)
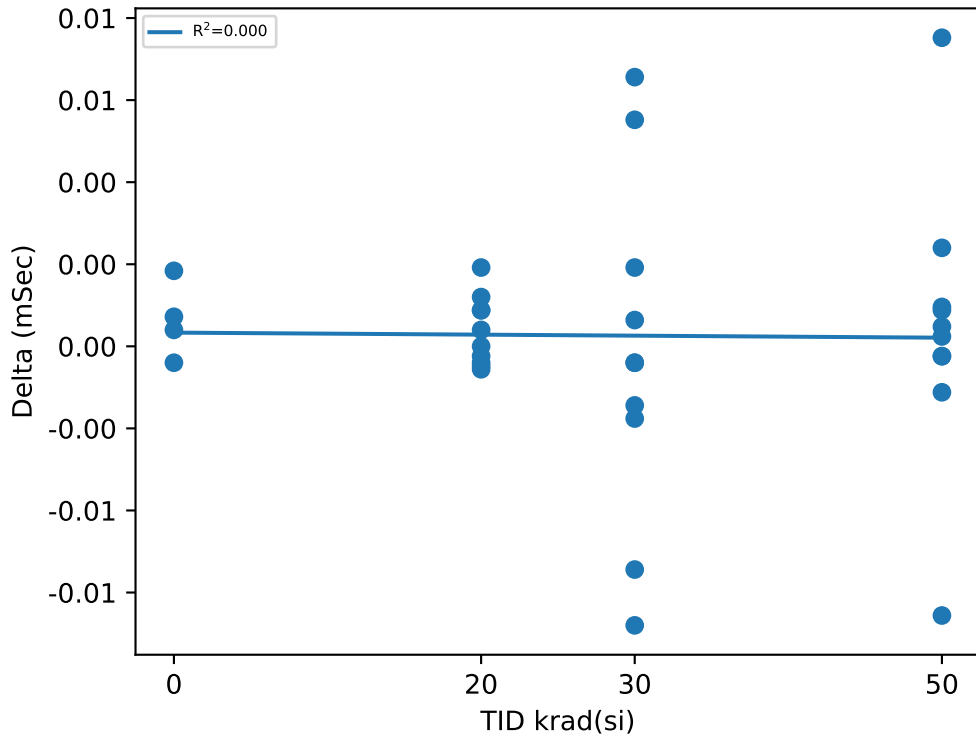
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.261 | 0.2693 | 0.2781 | 0.0069871 | 0.2615 | 0.2701 | 0.2776 | 0.0066247 | -0.0005 | 0.0008 | 0.0023 | 0.0011605 |
| 20 | 0.2615 | 0.2695 | 0.2737 | 0.0033836 | 0.2608 | 0.26995 | 0.2737 | 0.0038762 | -0.0007 | 0.00045 | 0.0024 | 0.0010459 |
| 30 | 0.2615 | 0.26868 | 0.2718 | 0.0036733 | 0.2621 | 0.26848 | 0.2706 | 0.0030811 | -0.0085 | -0.0002 | 0.0082 | 0.0052485 |
| 50 | 0.2613 | 0.26989 | 0.2781 | 0.0049874 | 0.2633 | 0.27043 | 0.2778 | 0.0042471 | -0.0082 | 0.00054 | 0.0094 | 0.0043066 |
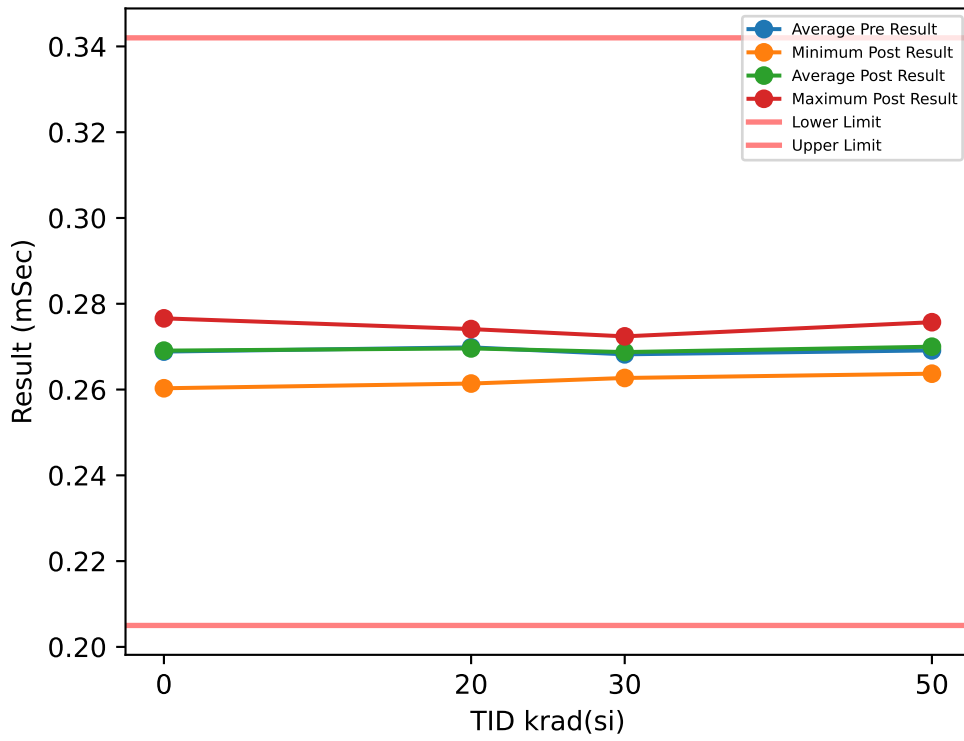
# Device Test: 17.51  DLY_TMR_10KOHM(_DELAY|STEP_UP/EN3/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2738 | 0.2741 | 0.0003 |
| 2 | 20 | Bias | 0.2735 | 0.2733 | -0.0002 |
| 3 | 20 | Bias | 0.2687 | 0.269 | 0.0003 |
| 4 | 20 | Bias | 0.2719 | 0.2722 | 0.0003 |
| 5 | 20 | Bias | 0.2679 | 0.2684 | 0.0005 |
| 6 | 20 | Unbiased | 0.2625 | 0.2614 | -0.0011 |
| 7 | 20 | Unbiased | 0.27 | 0.2695 | -0.0005 |
| 8 | 20 | Unbiased | 0.2714 | 0.2692 | -0.0022 |
| 9 | 20 | Unbiased | 0.2705 | 0.2701 | -0.0004 |
| 10 | 20 | Unbiased | 0.2682 | 0.2687 | 0.0005 |
| 11 | 30 | Bias | 0.2627 | 0.2682 | 0.0055 |
| 12 | 30 | Bias | 0.2679 | 0.2633 | -0.0046 |
| 13 | 30 | Bias | 0.271 | 0.2697 | -0.0013 |
| 14 | 30 | Bias | 0.2686 | 0.2717 | 0.0031 |
| 15 | 30 | Bias | 0.2713 | 0.2698 | -0.0015 |
| 16 | 30 | Unbiased | 0.2684 | 0.2724 | 0.004 |
| 17 | 30 | Unbiased | 0.2704 | 0.269 | -0.0014 |
| 18 | 30 | Unbiased | 0.2696 | 0.2693 | -0.0003 |
| 19 | 30 | Unbiased | 0.2624 | 0.2713 | 0.0089 |
| 20 | 30 | Unbiased | 0.2698 | 0.2627 | -0.0071 |
| 21 | 50 | Bias | 0.2618 | 0.2697 | 0.0079 |
| 22 | 50 | Bias | 0.2618 | 0.264 | 0.0022 |
| 23 | 50 | Bias | 0.2707 | 0.2637 | -0.007 |
| 24 | 50 | Bias | 0.2683 | 0.2697 | 0.0014 |
| 25 | 50 | Bias | 0.2771 | 0.2757 | -0.0014 |
| 26 | 50 | Unbiased | 0.2721 | 0.2735 | 0.0014 |
| 27 | 50 | Unbiased | 0.2694 | 0.2695 | 0.0001 |
| 28 | 50 | Unbiased | 0.2683 | 0.2705 | 0.0022 |
| 29 | 50 | Unbiased | 0.2717 | 0.2727 | 0.001 |
| 30 | 50 | Unbiased | 0.2701 | 0.2709 | 0.0008 |
| 31 | 0 | Correlation | 0.2691 | 0.2706 | 0.0015 |
| 32 | 0 | Correlation | 0.26 | 0.2603 | 0.0003 |
| 33 | 0 | Correlation | 0.2776 | 0.2766 | -0.001 |
| 34 | 0 | Correlation | 0.2687 | 0.2688 | 0.0001 |

## Test Statistics (mSec)
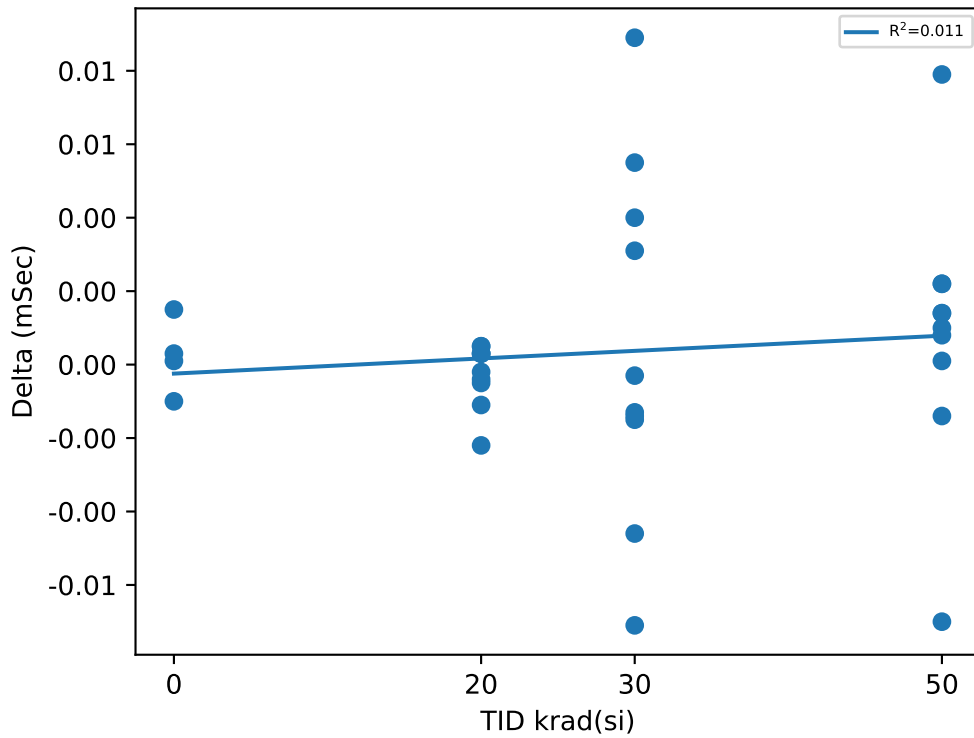
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.26 | 0.26885 | 0.2776 | 0.0071873 | 0.2603 | 0.26908 | 0.2766 | 0.0067337 | -0.001 | 0.000225 | 0.0015 | 0.0010243 |
| 20 | 0.2625 | 0.26984 | 0.2738 | 0.0032972 | 0.2614 | 0.26959 | 0.2741 | 0.0035114 | -0.0022 | -0.00025 | 0.0005 | 0.00085926 |
| 30 | 0.2624 | 0.26821 | 0.2713 | 0.0031796 | 0.2627 | 0.26874 | 0.2724 | 0.0032915 | -0.0071 | 0.00053 | 0.0089 | 0.0048284 |
| 50 | 0.2618 | 0.26913 | 0.2771 | 0.0046099 | 0.2637 | 0.26999 | 0.2757 | 0.003789 | -0.007 | 0.00086 | 0.0079 | 0.0036701 |
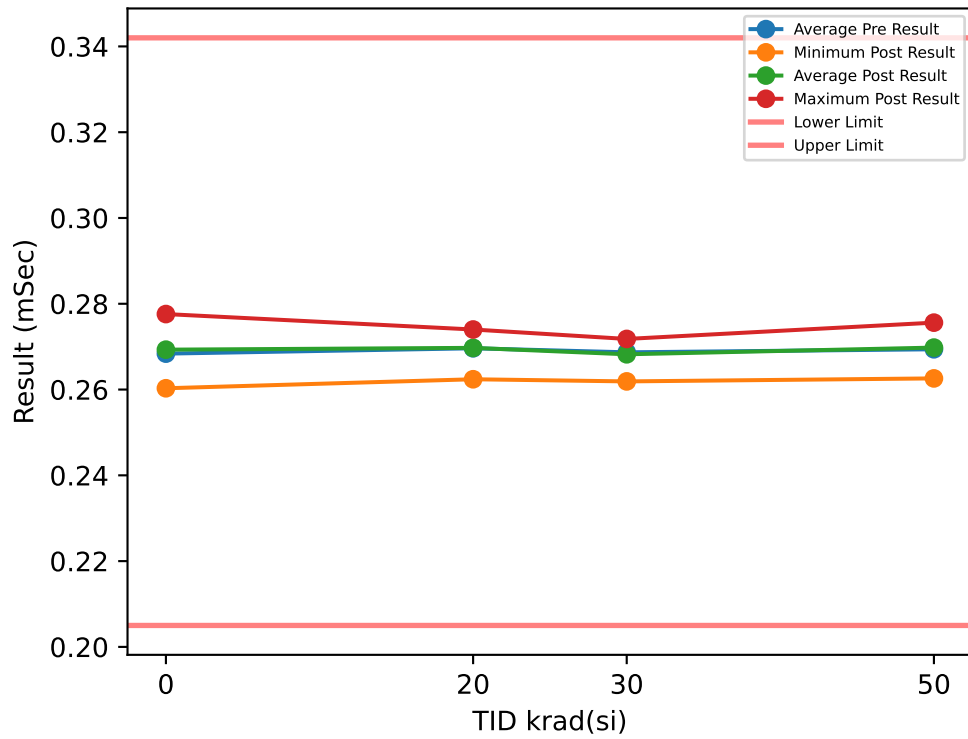
# Device Test: 17.52  DLY_TMR_10KOHM(_DELAY|STEP_UP/EN4/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2741 | 0.2734 | -0.0007 |
| 2 | 20 | Bias | 0.2724 | 0.274 | 0.0016 |
| 3 | 20 | Bias | 0.2699 | 0.269 | -0.0009 |
| 4 | 20 | Bias | 0.272 | 0.2711 | -0.0009 |
| 5 | 20 | Bias | 0.2688 | 0.2695 | 0.0007 |
| 6 | 20 | Unbiased | 0.2624 | 0.2624 | 0 |
| 7 | 20 | Unbiased | 0.2692 | 0.2686 | -0.0006 |
| 8 | 20 | Unbiased | 0.2699 | 0.2713 | 0.0014 |
| 9 | 20 | Unbiased | 0.271 | 0.2697 | -0.0013 |
| 10 | 20 | Unbiased | 0.2665 | 0.2682 | 0.0017 |
| 11 | 30 | Bias | 0.2633 | 0.2702 | 0.0069 |
| 12 | 30 | Bias | 0.2688 | 0.2637 | -0.0051 |
| 13 | 30 | Bias | 0.2698 | 0.2672 | -0.0026 |
| 14 | 30 | Bias | 0.2688 | 0.2688 | 0 |
| 15 | 30 | Bias | 0.2716 | 0.2684 | -0.0032 |
| 16 | 30 | Unbiased | 0.2708 | 0.2718 | 0.001 |
| 17 | 30 | Unbiased | 0.2692 | 0.2695 | 0.0003 |
| 18 | 30 | Unbiased | 0.2708 | 0.2697 | -0.0011 |
| 19 | 30 | Unbiased | 0.2629 | 0.271 | 0.0081 |
| 20 | 30 | Unbiased | 0.2708 | 0.2619 | -0.0089 |
| 21 | 50 | Bias | 0.2638 | 0.2703 | 0.0065 |
| 22 | 50 | Bias | 0.2619 | 0.2641 | 0.0022 |
| 23 | 50 | Bias | 0.2712 | 0.2626 | -0.0086 |
| 24 | 50 | Bias | 0.2684 | 0.2716 | 0.0032 |
| 25 | 50 | Bias | 0.2776 | 0.2756 | -0.002 |
| 26 | 50 | Unbiased | 0.2715 | 0.2721 | 0.0006 |
| 27 | 50 | Unbiased | 0.2682 | 0.269 | 0.0008 |
| 28 | 50 | Unbiased | 0.2689 | 0.2682 | -0.0007 |
| 29 | 50 | Unbiased | 0.2719 | 0.2729 | 0.001 |
| 30 | 50 | Unbiased | 0.2705 | 0.2714 | 0.0009 |
| 31 | 0 | Correlation | 0.269 | 0.2698 | 0.0008 |
| 32 | 0 | Correlation | 0.2598 | 0.2603 | 0.0005 |
| 33 | 0 | Correlation | 0.2771 | 0.2776 | 0.0005 |
| 34 | 0 | Correlation | 0.2676 | 0.2695 | 0.0019 |

## Test Statistics (mSec)
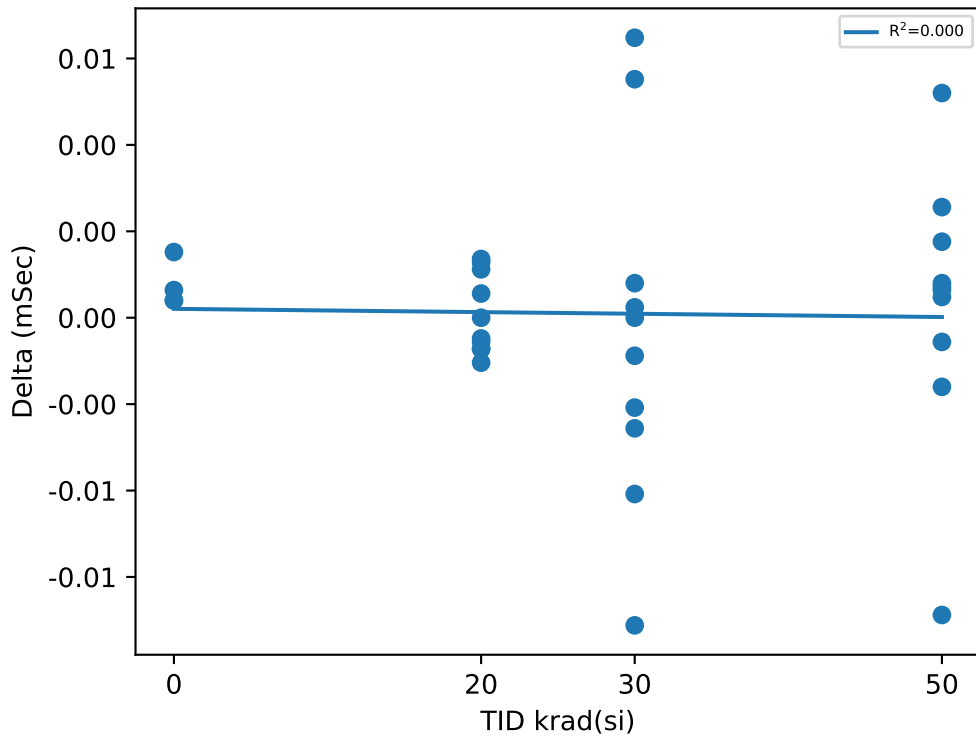
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2598 | 0.26838 | 0.2771 | 0.0070863 | 0.2603 | 0.2693 | 0.2776 | 0.0070753 | 0.0005 | 0.000925 | 0.0019 | 0.00066521 |
| 20 | 0.2624 | 0.26962 | 0.2741 | 0.0033038 | 0.2624 | 0.26972 | 0.274 | 0.0032314 | -0.0013 | 0.0001 | 0.0017 | 0.0011528 |
| 30 | 0.2629 | 0.26868 | 0.2716 | 0.0030897 | 0.2619 | 0.26822 | 0.2718 | 0.0031636 | -0.0089 | -0.00046 | 0.0081 | 0.0051167 |
| 50 | 0.2619 | 0.26939 | 0.2776 | 0.0043799 | 0.2626 | 0.26978 | 0.2756 | 0.0039737 | -0.0086 | 0.00039 | 0.0065 | 0.0039025 |
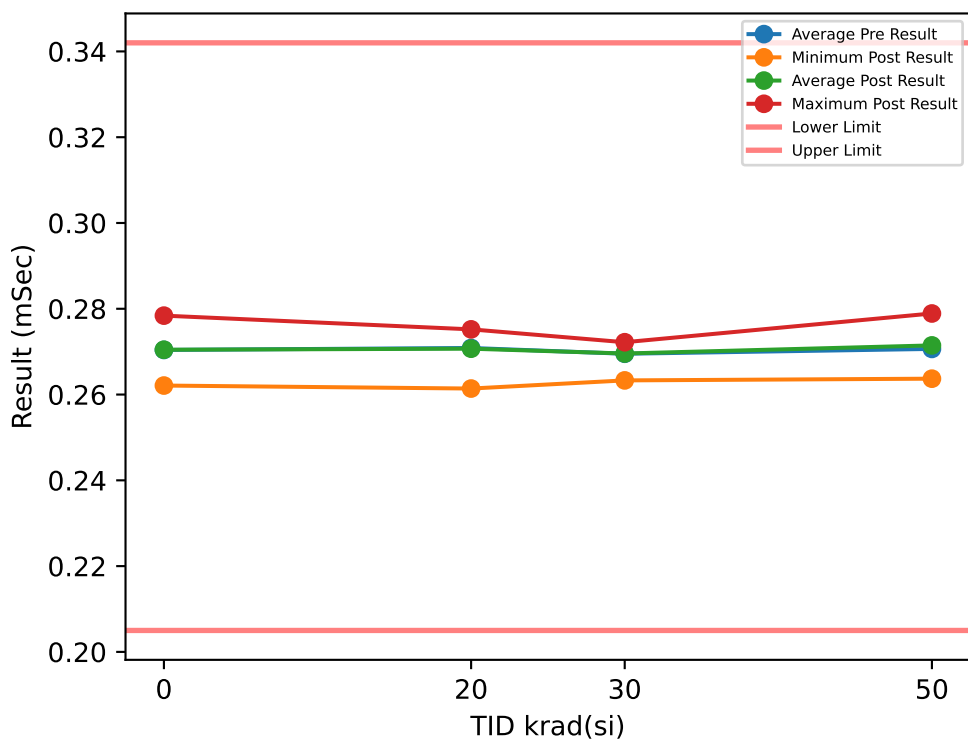
# Device Test: 17.53  DLY_TMR_10KOHM(_DELAY|STEP_UP/SEQ_DONE/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2743 | 0.2733 | -0.001 |
| 2 | 20 | Bias | 0.2743 | 0.2752 | 0.0009 |
| 3 | 20 | Bias | 0.2702 | 0.2712 | 0.001 |
| 4 | 20 | Bias | 0.2715 | 0.2715 | 0 |
| 5 | 20 | Bias | 0.2695 | 0.2694 | -0.0001 |
| 6 | 20 | Unbiased | 0.2638 | 0.2614 | -0.0024 |
| 7 | 20 | Unbiased | 0.2713 | 0.2709 | -0.0004 |
| 8 | 20 | Unbiased | 0.2718 | 0.273 | 0.0012 |
| 9 | 20 | Unbiased | 0.2721 | 0.2724 | 0.0003 |
| 10 | 20 | Unbiased | 0.2698 | 0.2686 | -0.0012 |
| 11 | 30 | Bias | 0.2635 | 0.2703 | 0.0068 |
| 12 | 30 | Bias | 0.2706 | 0.2633 | -0.0073 |
| 13 | 30 | Bias | 0.2721 | 0.2708 | -0.0013 |
| 14 | 30 | Bias | 0.2708 | 0.2715 | 0.0007 |
| 15 | 30 | Bias | 0.2704 | 0.2709 | 0.0005 |
| 16 | 30 | Unbiased | 0.2712 | 0.272 | 0.0008 |
| 17 | 30 | Unbiased | 0.2699 | 0.27 | 0.0001 |
| 18 | 30 | Unbiased | 0.2715 | 0.2708 | -0.0007 |
| 19 | 30 | Unbiased | 0.2629 | 0.2722 | 0.0093 |
| 20 | 30 | Unbiased | 0.2722 | 0.2639 | -0.0083 |
| 21 | 50 | Bias | 0.2641 | 0.2712 | 0.0071 |
| 22 | 50 | Bias | 0.2632 | 0.2651 | 0.0019 |
| 23 | 50 | Bias | 0.2727 | 0.2637 | -0.009 |
| 24 | 50 | Bias | 0.2695 | 0.2717 | 0.0022 |
| 25 | 50 | Bias | 0.2773 | 0.2789 | 0.0016 |
| 26 | 50 | Unbiased | 0.2735 | 0.2753 | 0.0018 |
| 27 | 50 | Unbiased | 0.2709 | 0.2699 | -0.001 |
| 28 | 50 | Unbiased | 0.2709 | 0.2717 | 0.0008 |
| 29 | 50 | Unbiased | 0.2729 | 0.2742 | 0.0013 |
| 30 | 50 | Unbiased | 0.2714 | 0.2729 | 0.0015 |
| 31 | 0 | Correlation | 0.2715 | 0.2707 | -0.0008 |
| 32 | 0 | Correlation | 0.2621 | 0.2621 | 0 |
| 33 | 0 | Correlation | 0.2781 | 0.2784 | 0.0003 |
| 34 | 0 | Correlation | 0.2699 | 0.2706 | 0.0007 |

## Test Statistics (mSec)
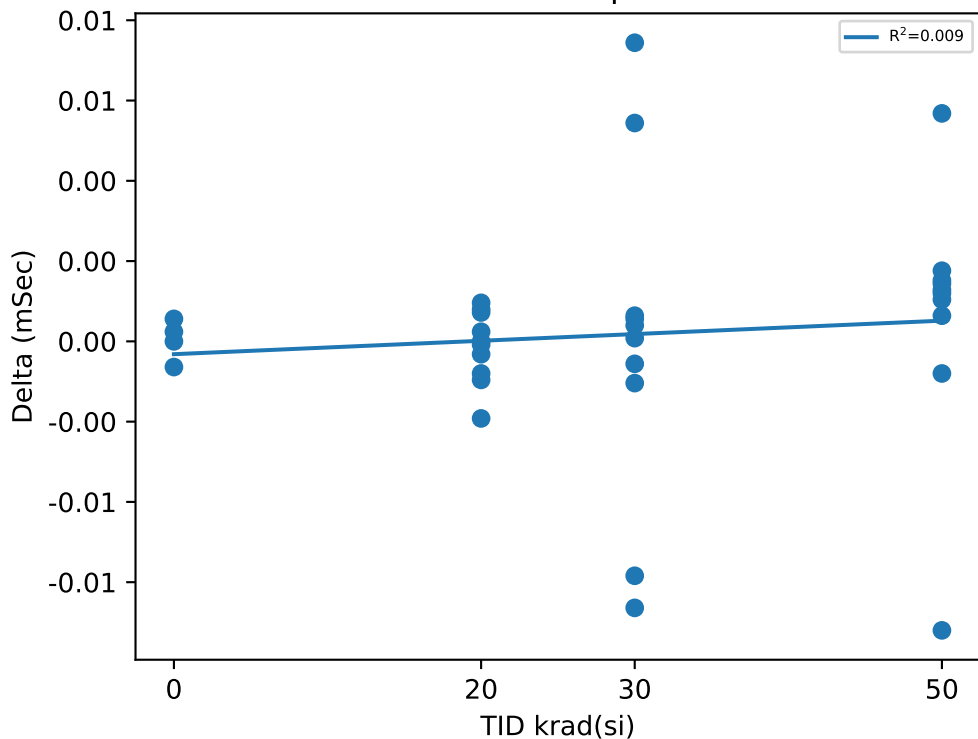
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2621 | 0.2704 | 0.2781 | 0.0065737 | 0.2621 | 0.27045 | 0.2784 | 0.0066586 | -0.0008 | 5e-05 | 0.0007 | 0.00063509 |
| 20 | 0.2638 | 0.27086 | 0.2743 | 0.0029804 | 0.2614 | 0.27069 | 0.2752 | 0.0037817 | -0.0024 | -0.00017 | 0.0012 | 0.0011265 |
| 30 | 0.2629 | 0.26951 | 0.2722 | 0.0034054 | 0.2633 | 0.26957 | 0.2722 | 0.0032235 | -0.0083 | 6e-05 | 0.0093 | 0.0053587 |
| 50 | 0.2632 | 0.27064 | 0.2773 | 0.004243 | 0.2637 | 0.27146 | 0.2789 | 0.0045088 | -0.009 | 0.00082 | 0.0071 | 0.0040072 |
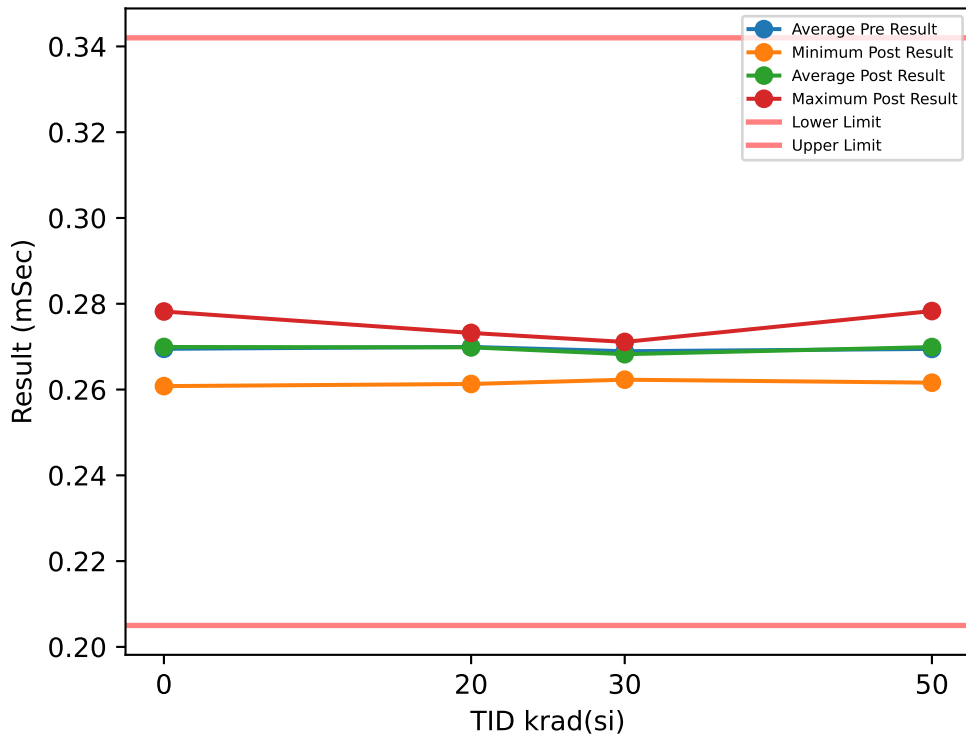
# Device Test: 17.54  DLY_TMR_10KOHM(_DELAY|STEP_UP/PWRGD/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2733 | 0.2723 | -0.001 |
| 2 | 20 | Bias | 0.2741 | 0.2732 | -0.0009 |
| 3 | 20 | Bias | 0.2698 | 0.2706 | 0.0008 |
| 4 | 20 | Bias | 0.272 | 0.2729 | 0.0009 |
| 5 | 20 | Bias | 0.2679 | 0.271 | 0.0031 |
| 6 | 20 | Unbiased | 0.2617 | 0.2613 | -0.0004 |
| 7 | 20 | Unbiased | 0.2699 | 0.2685 | -0.0014 |
| 8 | 20 | Unbiased | 0.2714 | 0.2703 | -0.0011 |
| 9 | 20 | Unbiased | 0.271 | 0.2706 | -0.0004 |
| 10 | 20 | Unbiased | 0.2683 | 0.2677 | -0.0006 |
| 11 | 30 | Bias | 0.2631 | 0.2693 | 0.0062 |
| 12 | 30 | Bias | 0.2703 | 0.2629 | -0.0074 |
| 13 | 30 | Bias | 0.2708 | 0.2692 | -0.0016 |
| 14 | 30 | Bias | 0.2684 | 0.2701 | 0.0017 |
| 15 | 30 | Bias | 0.2722 | 0.2695 | -0.0027 |
| 16 | 30 | Unbiased | 0.2706 | 0.2711 | 0.0005 |
| 17 | 30 | Unbiased | 0.2696 | 0.2686 | -0.001 |
| 18 | 30 | Unbiased | 0.2716 | 0.2697 | -0.0019 |
| 19 | 30 | Unbiased | 0.2626 | 0.2697 | 0.0071 |
| 20 | 30 | Unbiased | 0.2702 | 0.2623 | -0.0079 |
| 21 | 50 | Bias | 0.2641 | 0.2706 | 0.0065 |
| 22 | 50 | Bias | 0.2622 | 0.2625 | 0.0003 |
| 23 | 50 | Bias | 0.2723 | 0.2616 | -0.0107 |
| 24 | 50 | Bias | 0.2684 | 0.2708 | 0.0024 |
| 25 | 50 | Bias | 0.2768 | 0.2783 | 0.0015 |
| 26 | 50 | Unbiased | 0.2724 | 0.2737 | 0.0013 |
| 27 | 50 | Unbiased | 0.269 | 0.2678 | -0.0012 |
| 28 | 50 | Unbiased | 0.2684 | 0.2706 | 0.0022 |
| 29 | 50 | Unbiased | 0.2706 | 0.2732 | 0.0026 |
| 30 | 50 | Unbiased | 0.2705 | 0.27 | -0.0005 |
| 31 | 0 | Correlation | 0.2708 | 0.2709 | 0.0001 |
| 32 | 0 | Correlation | 0.2614 | 0.2608 | -0.0006 |
| 33 | 0 | Correlation | 0.2772 | 0.2782 | 0.001 |
| 34 | 0 | Correlation | 0.2686 | 0.2698 | 0.0012 |

## Test Statistics (mSec)
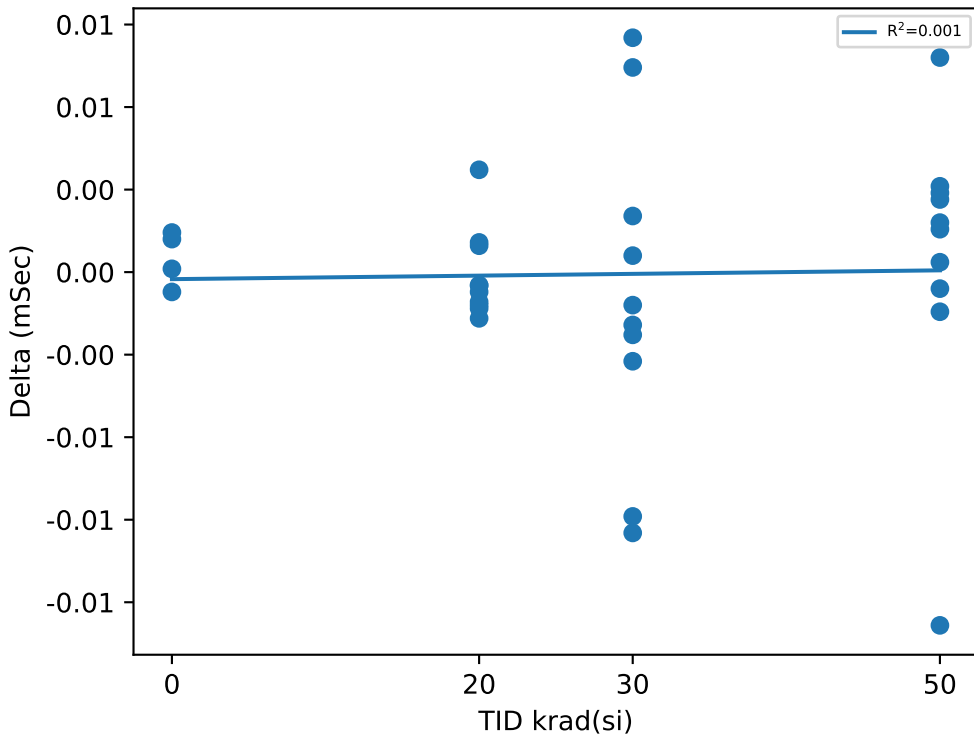
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2614 | 0.2695 | 0.2772 | 0.0065166 | 0.2608 | 0.26992 | 0.2782 | 0.0071346 | -0.0006 | 0.000425 | 0.0012 | 0.00083417 |
| 20 | 0.2617 | 0.26994 | 0.2741 | 0.0035097 | 0.2613 | 0.26984 | 0.2732 | 0.0034757 | -0.0014 | -0.0001 | 0.0031 | 0.0013589 |
| 30 | 0.2626 | 0.26894 | 0.2722 | 0.0033728 | 0.2623 | 0.26824 | 0.2711 | 0.0030453 | -0.0079 | -0.0007 | 0.0071 | 0.0049297 |
| 50 | 0.2622 | 0.26947 | 0.2768 | 0.0041748 | 0.2616 | 0.26991 | 0.2783 | 0.0050083 | -0.0107 | 0.00044 | 0.0065 | 0.0044458 |
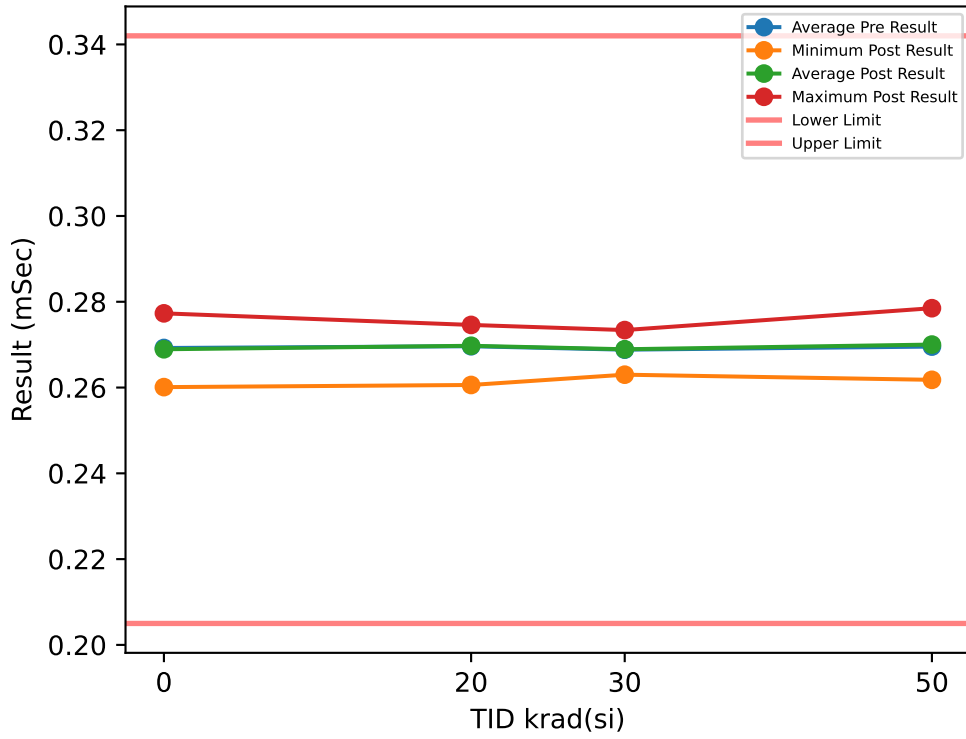
# Device Test: 17.55  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN1/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2734 | 0.2746 | 0.0012 |
| 2 | 20 | Bias | 0.2725 | 0.2724 | -0.0001 |
| 3 | 20 | Bias | 0.2703 | 0.2692 | -0.0011 |
| 4 | 20 | Bias | 0.2704 | 0.2701 | -0.0003 |
| 5 | 20 | Bias | 0.2686 | 0.2686 | 0 |
| 6 | 20 | Unbiased | 0.262 | 0.2606 | -0.0014 |
| 7 | 20 | Unbiased | 0.2687 | 0.271 | 0.0023 |
| 8 | 20 | Unbiased | 0.272 | 0.2717 | -0.0003 |
| 9 | 20 | Unbiased | 0.2704 | 0.2699 | -0.0005 |
| 10 | 20 | Unbiased | 0.268 | 0.2693 | 0.0013 |
| 11 | 30 | Bias | 0.2632 | 0.2701 | 0.0069 |
| 12 | 30 | Bias | 0.2695 | 0.2638 | -0.0057 |
| 13 | 30 | Bias | 0.2718 | 0.2686 | -0.0032 |
| 14 | 30 | Bias | 0.2694 | 0.2699 | 0.0005 |
| 15 | 30 | Bias | 0.271 | 0.2683 | -0.0027 |
| 16 | 30 | Unbiased | 0.2692 | 0.2716 | 0.0024 |
| 17 | 30 | Unbiased | 0.2693 | 0.2694 | 0.0001 |
| 18 | 30 | Unbiased | 0.2719 | 0.2712 | -0.0007 |
| 19 | 30 | Unbiased | 0.2627 | 0.2734 | 0.0107 |
| 20 | 30 | Unbiased | 0.2703 | 0.263 | -0.0073 |
| 21 | 50 | Bias | 0.2633 | 0.271 | 0.0077 |
| 22 | 50 | Bias | 0.262 | 0.2634 | 0.0014 |
| 23 | 50 | Bias | 0.2703 | 0.2618 | -0.0085 |
| 24 | 50 | Bias | 0.2677 | 0.2712 | 0.0035 |
| 25 | 50 | Bias | 0.2783 | 0.2785 | 0.0002 |
| 26 | 50 | Unbiased | 0.2708 | 0.2719 | 0.0011 |
| 27 | 50 | Unbiased | 0.2707 | 0.2693 | -0.0014 |
| 28 | 50 | Unbiased | 0.27 | 0.2682 | -0.0018 |
| 29 | 50 | Unbiased | 0.2715 | 0.2719 | 0.0004 |
| 30 | 50 | Unbiased | 0.2709 | 0.273 | 0.0021 |
| 31 | 0 | Correlation | 0.27 | 0.2692 | -0.0008 |
| 32 | 0 | Correlation | 0.2617 | 0.2601 | -0.0016 |
| 33 | 0 | Correlation | 0.277 | 0.2773 | 0.0003 |
| 34 | 0 | Correlation | 0.2682 | 0.2691 | 0.0009 |
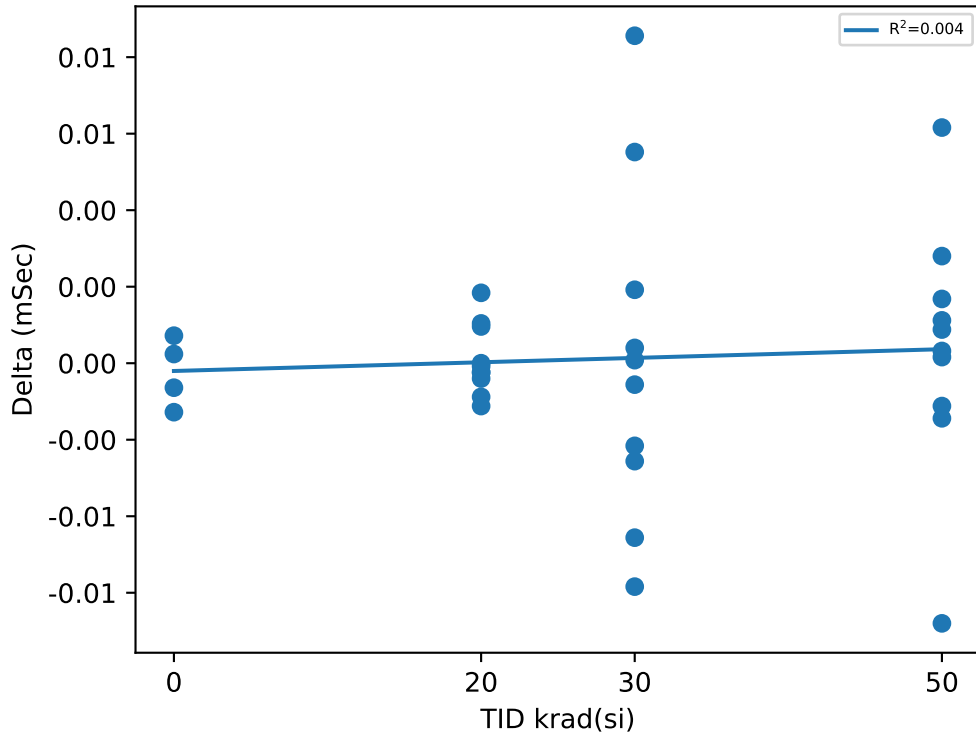
## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2617 | 0.26922 | 0.277 | 0.0062909 | 0.2601 | 0.26892 | 0.2773 | 0.0070268 | -0.0016 | -0.0003 | 0.0009 | 0.0011165 |
| 20 | 0.262 | 0.26963 | 0.2734 | 0.0032059 | 0.2606 | 0.26974 | 0.2746 | 0.0036758 | -0.0014 | 0.00011 | 0.0023 | 0.0011503 |
| 30 | 0.2627 | 0.26883 | 0.2719 | 0.0032578 | 0.263 | 0.26893 | 0.2734 | 0.0032792 | -0.0073 | 0.0001 | 0.0107 | 0.0054957 |
| 50 | 0.262 | 0.26955 | 0.2783 | 0.0045378 | 0.2618 | 0.27002 | 0.2785 | 0.0047777 | -0.0085 | 0.00047 | 0.0077 | 0.0041441 |
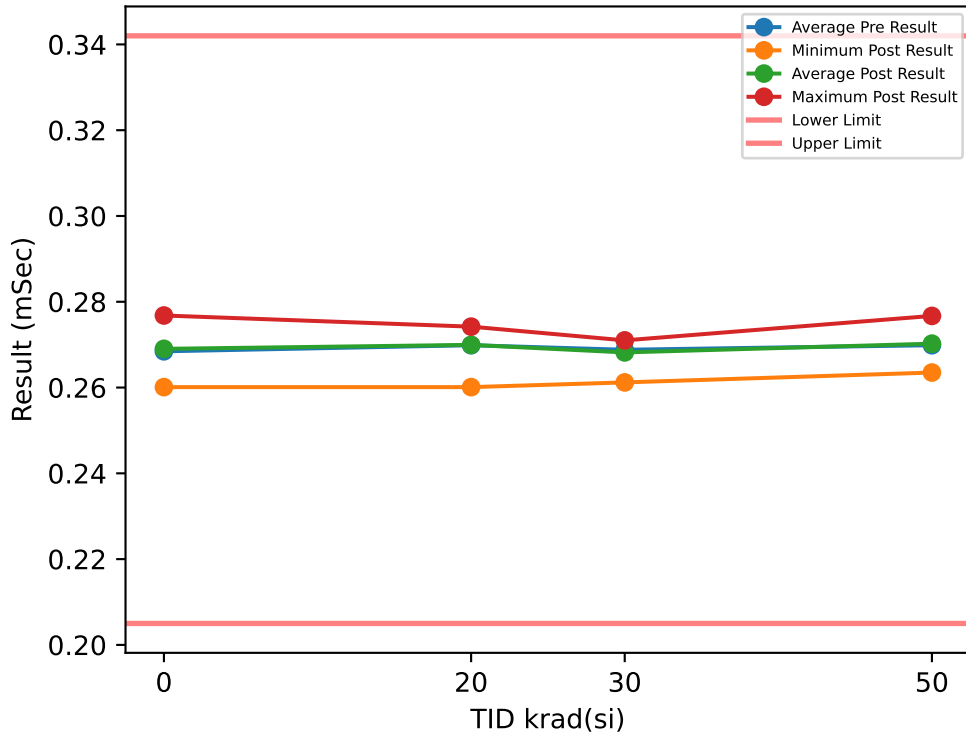
# Device Test: 17.56  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN2/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2733 | 0.2727 | -0.0006 |
| 2 | 20 | Bias | 0.2731 | 0.2742 | 0.0011 |
| 3 | 20 | Bias | 0.2698 | 0.2706 | 0.0008 |
| 4 | 20 | Bias | 0.2714 | 0.2722 | 0.0008 |
| 5 | 20 | Bias | 0.2683 | 0.2688 | 0.0005 |
| 6 | 20 | Unbiased | 0.2616 | 0.2601 | -0.0015 |
| 7 | 20 | Unbiased | 0.27 | 0.2687 | -0.0013 |
| 8 | 20 | Unbiased | 0.2703 | 0.2704 | 0.0001 |
| 9 | 20 | Unbiased | 0.272 | 0.2728 | 0.0008 |
| 10 | 20 | Unbiased | 0.2689 | 0.269 | 0.0001 |
| 11 | 30 | Bias | 0.2636 | 0.2695 | 0.0059 |
| 12 | 30 | Bias | 0.2689 | 0.2637 | -0.0052 |
| 13 | 30 | Bias | 0.273 | 0.2687 | -0.0043 |
| 14 | 30 | Bias | 0.2702 | 0.2693 | -0.0009 |
| 15 | 30 | Bias | 0.2705 | 0.2693 | -0.0012 |
| 16 | 30 | Unbiased | 0.2697 | 0.27 | 0.0003 |
| 17 | 30 | Unbiased | 0.2688 | 0.2685 | -0.0003 |
| 18 | 30 | Unbiased | 0.2696 | 0.2707 | 0.0011 |
| 19 | 30 | Unbiased | 0.2639 | 0.271 | 0.0071 |
| 20 | 30 | Unbiased | 0.2699 | 0.2612 | -0.0087 |
| 21 | 50 | Bias | 0.2616 | 0.2697 | 0.0081 |
| 22 | 50 | Bias | 0.2626 | 0.2661 | 0.0035 |
| 23 | 50 | Bias | 0.2731 | 0.2635 | -0.0096 |
| 24 | 50 | Bias | 0.2684 | 0.2722 | 0.0038 |
| 25 | 50 | Bias | 0.2788 | 0.2767 | -0.0021 |
| 26 | 50 | Unbiased | 0.2719 | 0.2735 | 0.0016 |
| 27 | 50 | Unbiased | 0.269 | 0.2695 | 0.0005 |
| 28 | 50 | Unbiased | 0.27 | 0.2683 | -0.0017 |
| 29 | 50 | Unbiased | 0.2724 | 0.2707 | -0.0017 |
| 30 | 50 | Unbiased | 0.2709 | 0.2721 | 0.0012 |
| 31 | 0 | Correlation | 0.2692 | 0.2694 | 0.0002 |
| 32 | 0 | Correlation | 0.2588 | 0.2601 | 0.0013 |
| 33 | 0 | Correlation | 0.2766 | 0.2768 | 0.0002 |
| 34 | 0 | Correlation | 0.2692 | 0.2698 | 0.0006 |

## Test Statistics (mSec)
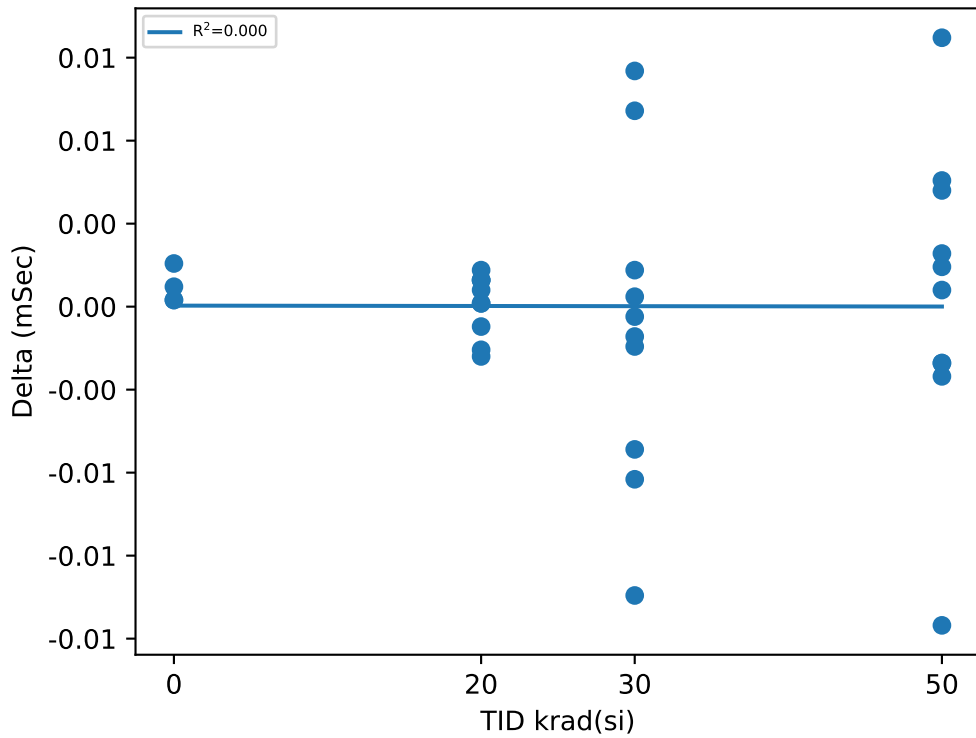
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2588 | 0.26845 | 0.2766 | 0.0073182 | 0.2601 | 0.26902 | 0.2768 | 0.0068519 | 0.0002 | 0.000575 | 0.0013 | 0.00051881 |
| 20 | 0.2616 | 0.26987 | 0.2733 | 0.0033513 | 0.2601 | 0.26995 | 0.2742 | 0.0039475 | -0.0015 | 8e-05 | 0.0011 | 0.00092111 |
| 30 | 0.2636 | 0.26881 | 0.273 | 0.0029099 | 0.2612 | 0.26819 | 0.271 | 0.0031803 | -0.0087 | -0.00062 | 0.0071 | 0.004787 |
| 50 | 0.2616 | 0.26987 | 0.2788 | 0.0050104 | 0.2635 | 0.27023 | 0.2767 | 0.0037571 | -0.0096 | 0.00036 | 0.0081 | 0.0046857 |
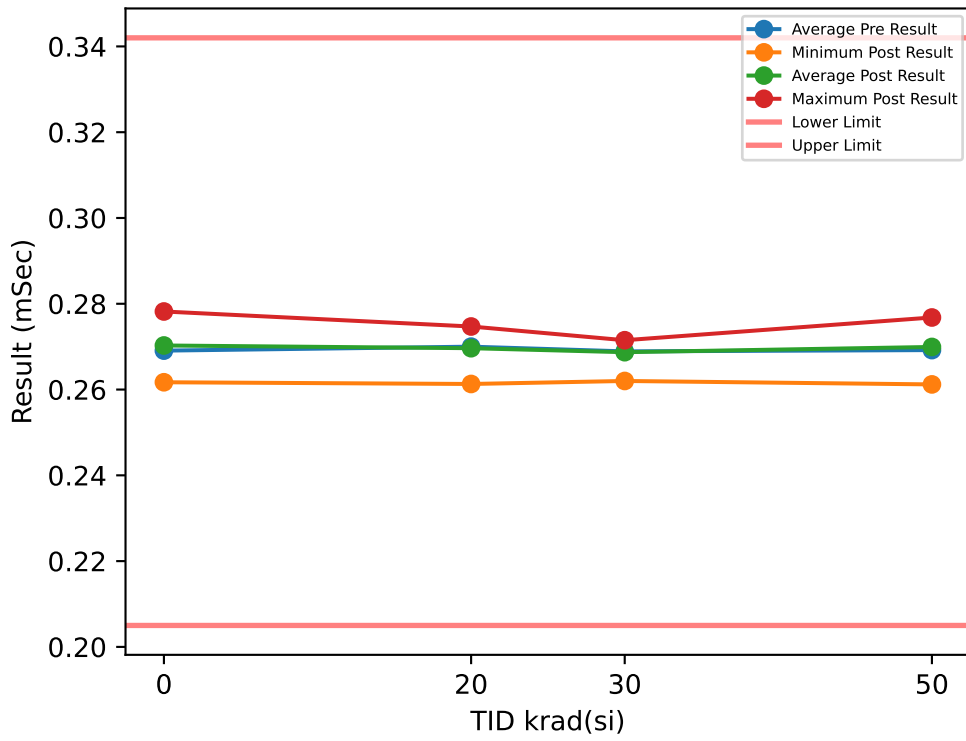
# Device Test: 17.57  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN3/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2731 | 0.2747 | 0.0016 |
| 2 | 20 | Bias | 0.2731 | 0.2721 | -0.001 |
| 3 | 20 | Bias | 0.2702 | 0.2699 | -0.0003 |
| 4 | 20 | Bias | 0.272 | 0.2721 | 0.0001 |
| 5 | 20 | Bias | 0.2678 | 0.2685 | 0.0007 |
| 6 | 20 | Unbiased | 0.2627 | 0.2613 | -0.0014 |
| 7 | 20 | Unbiased | 0.2698 | 0.2686 | -0.0012 |
| 8 | 20 | Unbiased | 0.2707 | 0.2709 | 0.0002 |
| 9 | 20 | Unbiased | 0.2716 | 0.2702 | -0.0014 |
| 10 | 20 | Unbiased | 0.269 | 0.2681 | -0.0009 |
| 11 | 30 | Bias | 0.262 | 0.2707 | 0.0087 |
| 12 | 30 | Bias | 0.2699 | 0.2625 | -0.0074 |
| 13 | 30 | Bias | 0.2705 | 0.2696 | -0.0009 |
| 14 | 30 | Bias | 0.2696 | 0.2698 | 0.0002 |
| 15 | 30 | Bias | 0.272 | 0.2701 | -0.0019 |
| 16 | 30 | Unbiased | 0.2707 | 0.2715 | 0.0008 |
| 17 | 30 | Unbiased | 0.2692 | 0.2701 | 0.0009 |
| 18 | 30 | Unbiased | 0.2715 | 0.2703 | -0.0012 |
| 19 | 30 | Unbiased | 0.2631 | 0.2705 | 0.0074 |
| 20 | 30 | Unbiased | 0.2705 | 0.262 | -0.0085 |
| 21 | 50 | Bias | 0.2642 | 0.2707 | 0.0065 |
| 22 | 50 | Bias | 0.261 | 0.2645 | 0.0035 |
| 23 | 50 | Bias | 0.2711 | 0.2612 | -0.0099 |
| 24 | 50 | Bias | 0.2674 | 0.2714 | 0.004 |
| 25 | 50 | Bias | 0.2762 | 0.2768 | 0.0006 |
| 26 | 50 | Unbiased | 0.2735 | 0.2735 | 0 |
| 27 | 50 | Unbiased | 0.2684 | 0.2683 | -0.0001 |
| 28 | 50 | Unbiased | 0.2693 | 0.2683 | -0.001 |
| 29 | 50 | Unbiased | 0.2711 | 0.2723 | 0.0012 |
| 30 | 50 | Unbiased | 0.2698 | 0.2723 | 0.0025 |
| 31 | 0 | Correlation | 0.2699 | 0.2709 | 0.001 |
| 32 | 0 | Correlation | 0.2607 | 0.2617 | 0.001 |
| 33 | 0 | Correlation | 0.2771 | 0.2782 | 0.0011 |
| 34 | 0 | Correlation | 0.2686 | 0.2703 | 0.0017 |

## Test Statistics (mSec)
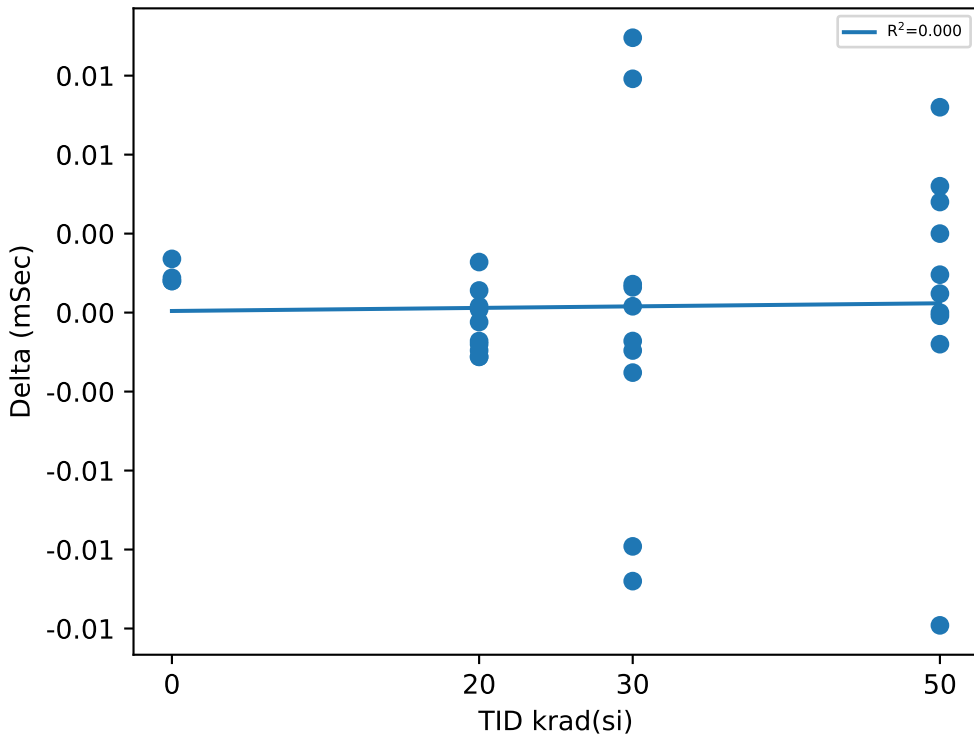
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2607 | 0.26908 | 0.2771 | 0.0067193 | 0.2617 | 0.27027 | 0.2782 | 0.006751 | 0.001 | 0.0012 | 0.0017 | 0.00033665 |
| 20 | 0.2627 | 0.27 | 0.2731 | 0.0030818 | 0.2613 | 0.26964 | 0.2747 | 0.0035588 | -0.0014 | -0.00036 | 0.0016 | 0.0010035 |
| 30 | 0.262 | 0.2689 | 0.272 | 0.003457 | 0.262 | 0.26871 | 0.2715 | 0.0034466 | -0.0085 | -0.00019 | 0.0087 | 0.0054206 |
| 50 | 0.261 | 0.2692 | 0.2762 | 0.0043614 | 0.2612 | 0.26993 | 0.2768 | 0.0045331 | -0.0099 | 0.00073 | 0.0065 | 0.0043747 |
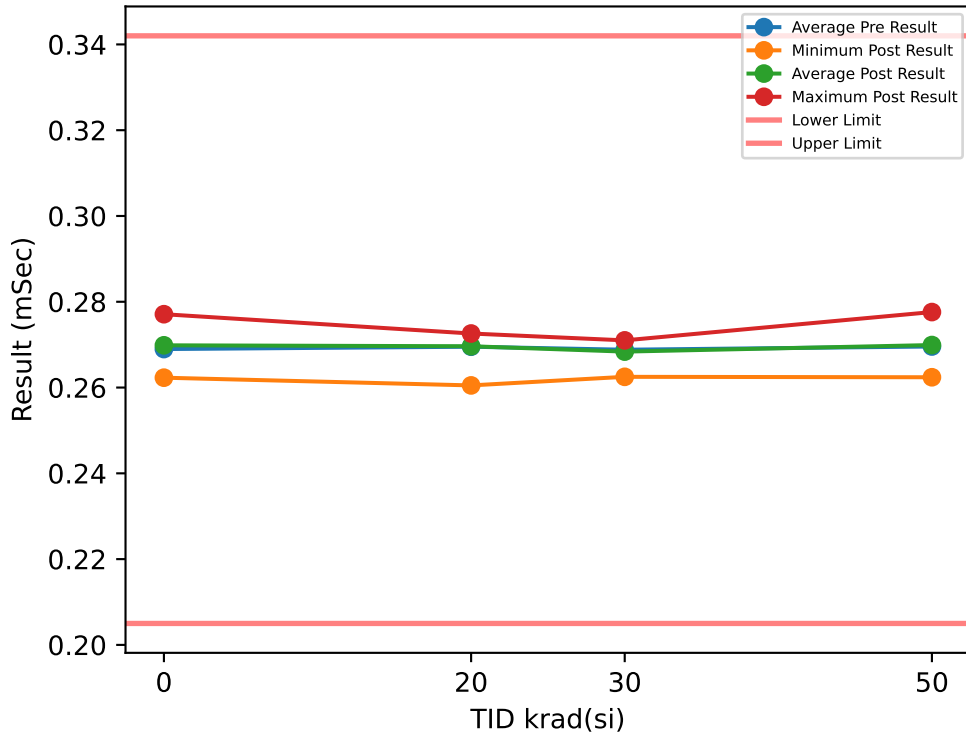
# Device Test: 17.58  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN4/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2717 | 0.272 | 0.0003 |
| 2 | 20 | Bias | 0.2722 | 0.2713 | -0.0009 |
| 3 | 20 | Bias | 0.2702 | 0.2707 | 0.0005 |
| 4 | 20 | Bias | 0.2722 | 0.2726 | 0.0004 |
| 5 | 20 | Bias | 0.2689 | 0.2696 | 0.0007 |
| 6 | 20 | Unbiased | 0.2621 | 0.2605 | -0.0016 |
| 7 | 20 | Unbiased | 0.2708 | 0.269 | -0.0018 |
| 8 | 20 | Unbiased | 0.2701 | 0.2709 | 0.0008 |
| 9 | 20 | Unbiased | 0.2694 | 0.2698 | 0.0004 |
| 10 | 20 | Unbiased | 0.2676 | 0.2699 | 0.0023 |
| 11 | 30 | Bias | 0.2633 | 0.2694 | 0.0061 |
| 12 | 30 | Bias | 0.2682 | 0.2627 | -0.0055 |
| 13 | 30 | Bias | 0.2724 | 0.2697 | -0.0027 |
| 14 | 30 | Bias | 0.2712 | 0.2695 | -0.0017 |
| 15 | 30 | Bias | 0.2703 | 0.2699 | -0.0004 |
| 16 | 30 | Unbiased | 0.2691 | 0.2698 | 0.0007 |
| 17 | 30 | Unbiased | 0.2694 | 0.2686 | -0.0008 |
| 18 | 30 | Unbiased | 0.272 | 0.271 | -0.001 |
| 19 | 30 | Unbiased | 0.2617 | 0.2707 | 0.009 |
| 20 | 30 | Unbiased | 0.2706 | 0.2625 | -0.0081 |
| 21 | 50 | Bias | 0.2617 | 0.2696 | 0.0079 |
| 22 | 50 | Bias | 0.2617 | 0.2624 | 0.0007 |
| 23 | 50 | Bias | 0.2717 | 0.2625 | -0.0092 |
| 24 | 50 | Bias | 0.269 | 0.2717 | 0.0027 |
| 25 | 50 | Bias | 0.2767 | 0.2776 | 0.0009 |
| 26 | 50 | Unbiased | 0.2733 | 0.2737 | 0.0004 |
| 27 | 50 | Unbiased | 0.2692 | 0.2682 | -0.001 |
| 28 | 50 | Unbiased | 0.2684 | 0.2683 | -0.0001 |
| 29 | 50 | Unbiased | 0.2726 | 0.2732 | 0.0006 |
| 30 | 50 | Unbiased | 0.2714 | 0.2719 | 0.0005 |
| 31 | 0 | Correlation | 0.2697 | 0.2709 | 0.0012 |
| 32 | 0 | Correlation | 0.2604 | 0.2623 | 0.0019 |
| 33 | 0 | Correlation | 0.2758 | 0.2771 | 0.0013 |
| 34 | 0 | Correlation | 0.27 | 0.2691 | -0.0009 |

## Test Statistics (mSec)
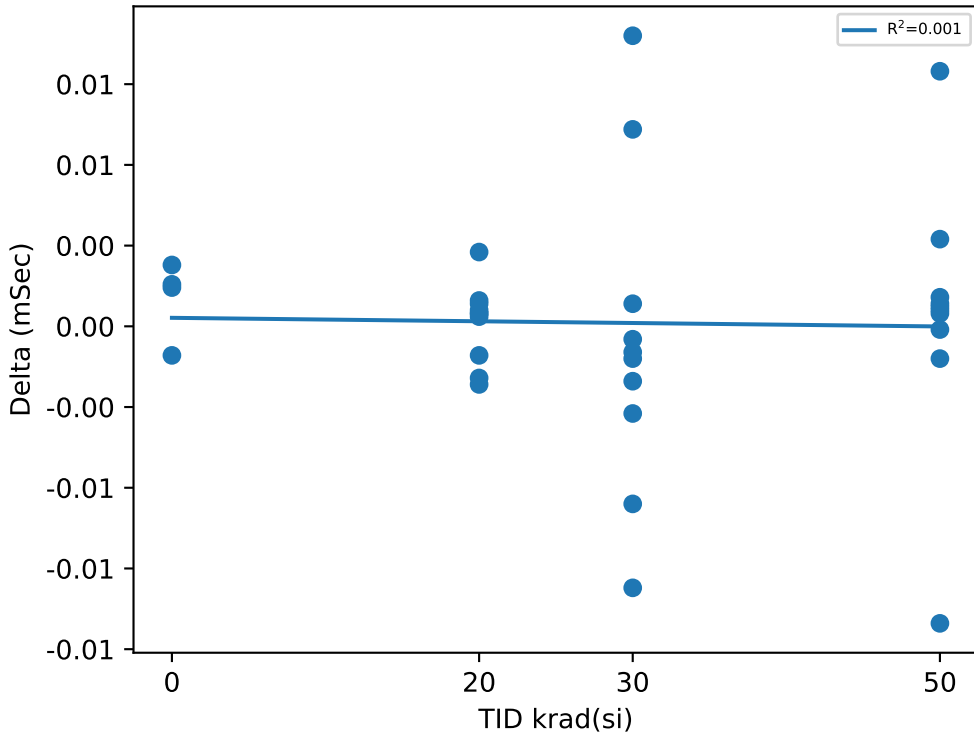
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2604 | 0.26898 | 0.2758 | 0.0063689 | 0.2623 | 0.26985 | 0.2771 | 0.0060891 | -0.0009 | 0.000875 | 0.0019 | 0.001223 |
| 20 | 0.2621 | 0.26952 | 0.2722 | 0.0029944 | 0.2605 | 0.26963 | 0.2726 | 0.0033967 | -0.0018 | 0.00011 | 0.0023 | 0.0012279 |
| 30 | 0.2617 | 0.26882 | 0.2724 | 0.0035888 | 0.2625 | 0.26838 | 0.271 | 0.003118 | -0.0081 | -0.00044 | 0.009 | 0.0049956 |
| 50 | 0.2617 | 0.26957 | 0.2767 | 0.0048019 | 0.2624 | 0.26991 | 0.2776 | 0.0048121 | -0.0092 | 0.00034 | 0.0079 | 0.0041669 |
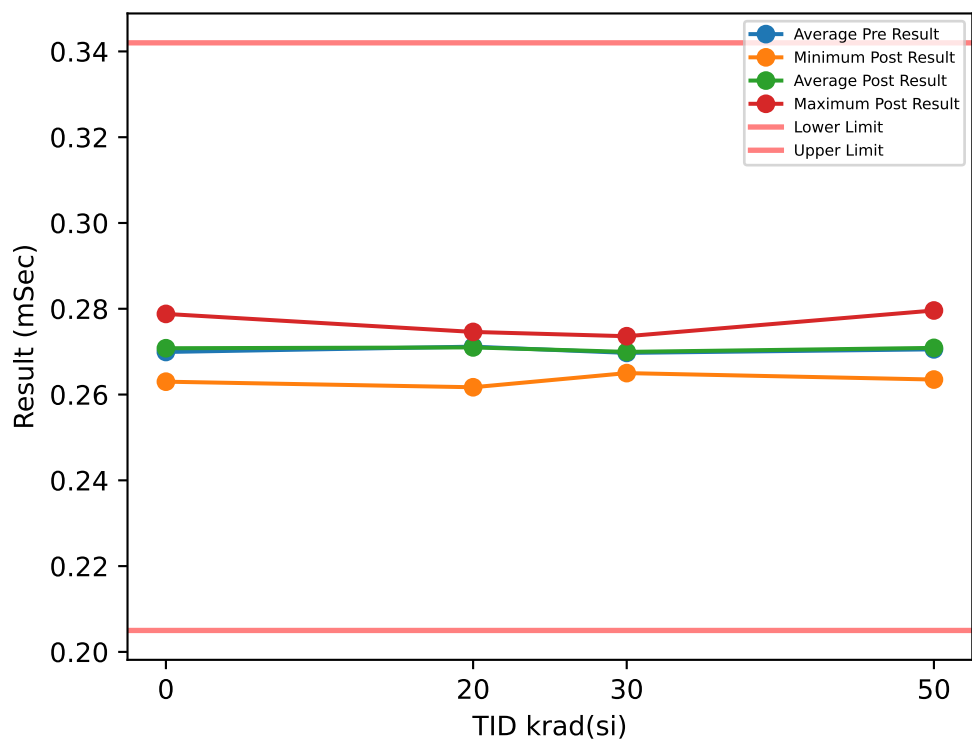
# Device Test: 17.59  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/SEQ_DONE/1.6/3/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2771 | 0.2745 | -0.0026 |
| 2 | 20 | Bias | 0.2741 | 0.2746 | 0.0005 |
| 3 | 20 | Bias | 0.2704 | 0.2716 | 0.0012 |
| 4 | 20 | Bias | 0.2724 | 0.2723 | -0.0001 |
| 5 | 20 | Bias | 0.2691 | 0.2726 | 0.0035 |
| 6 | 20 | Unbiased | 0.2638 | 0.2617 | -0.0021 |
| 7 | 20 | Unbiased | 0.2706 | 0.2699 | -0.0007 |
| 8 | 20 | Unbiased | 0.2718 | 0.2719 | 0.0001 |
| 9 | 20 | Unbiased | 0.2719 | 0.2714 | -0.0005 |
| 10 | 20 | Unbiased | 0.2705 | 0.2694 | -0.0011 |
| 11 | 30 | Bias | 0.2648 | 0.2695 | 0.0047 |
| 12 | 30 | Bias | 0.2705 | 0.265 | -0.0055 |
| 13 | 30 | Bias | 0.2719 | 0.2705 | -0.0014 |
| 14 | 30 | Bias | 0.2712 | 0.2713 | 0.0001 |
| 15 | 30 | Bias | 0.2729 | 0.2708 | -0.0021 |
| 16 | 30 | Unbiased | 0.2702 | 0.2712 | 0.001 |
| 17 | 30 | Unbiased | 0.2702 | 0.27 | -0.0002 |
| 18 | 30 | Unbiased | 0.2708 | 0.2723 | 0.0015 |
| 19 | 30 | Unbiased | 0.2635 | 0.2736 | 0.0101 |
| 20 | 30 | Unbiased | 0.2711 | 0.2653 | -0.0058 |
| 21 | 50 | Bias | 0.264 | 0.2713 | 0.0073 |
| 22 | 50 | Bias | 0.2635 | 0.2652 | 0.0017 |
| 23 | 50 | Bias | 0.2722 | 0.2635 | -0.0087 |
| 24 | 50 | Bias | 0.2691 | 0.2718 | 0.0027 |
| 25 | 50 | Bias | 0.2787 | 0.2796 | 0.0009 |
| 26 | 50 | Unbiased | 0.2744 | 0.2736 | -0.0008 |
| 27 | 50 | Unbiased | 0.2697 | 0.2702 | 0.0005 |
| 28 | 50 | Unbiased | 0.271 | 0.2701 | -0.0009 |
| 29 | 50 | Unbiased | 0.2717 | 0.2715 | -0.0002 |
| 30 | 50 | Unbiased | 0.2711 | 0.272 | 0.0009 |
| 31 | 0 | Correlation | 0.2709 | 0.271 | 0.0001 |
| 32 | 0 | Correlation | 0.2617 | 0.263 | 0.0013 |
| 33 | 0 | Correlation | 0.2772 | 0.2788 | 0.0016 |
| 34 | 0 | Correlation | 0.2699 | 0.2704 | 0.0005 |

## Test Statistics (mSec)
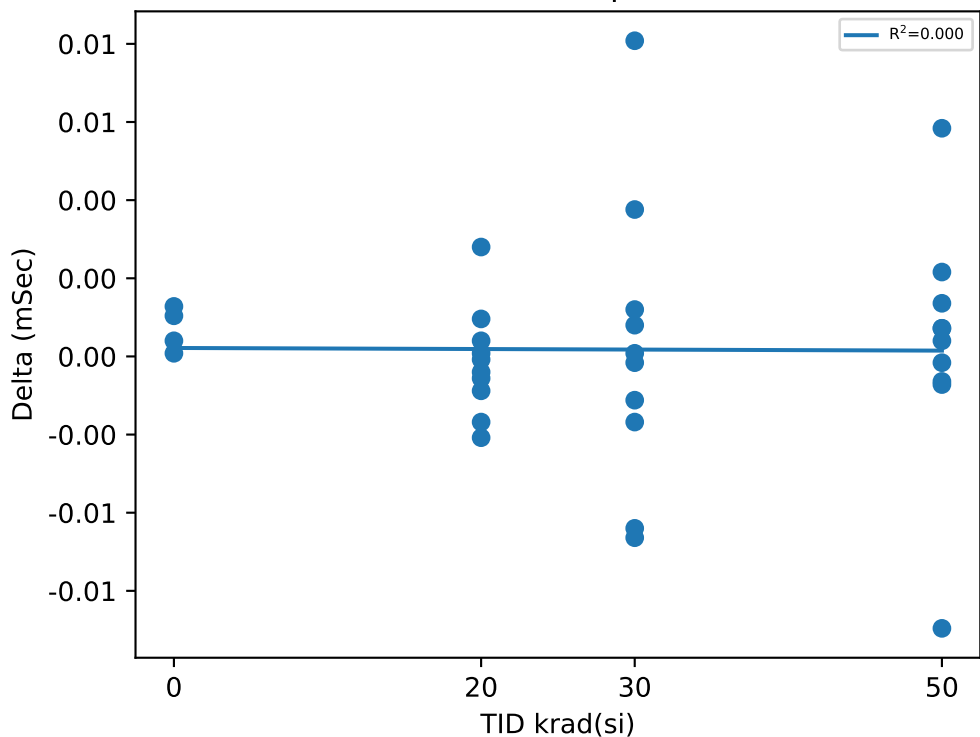
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2617 | 0.26992 | 0.2772 | 0.0063647 | 0.263 | 0.2708 | 0.2788 | 0.006456 | 0.0001 | 0.000875 | 0.0016 | 0.00069462 |
| 20 | 0.2638 | 0.27117 | 0.2771 | 0.0034345 | 0.2617 | 0.27099 | 0.2746 | 0.0036674 | -0.0026 | -0.00018 | 0.0035 | 0.0017242 |
| 30 | 0.2635 | 0.26971 | 0.2729 | 0.0030567 | 0.265 | 0.26995 | 0.2736 | 0.0027806 | -0.0058 | 0.00024 | 0.0101 | 0.0046796 |
| 50 | 0.2635 | 0.27054 | 0.2787 | 0.0044873 | 0.2635 | 0.27088 | 0.2796 | 0.0043957 | -0.0087 | 0.00034 | 0.0073 | 0.0039632 |
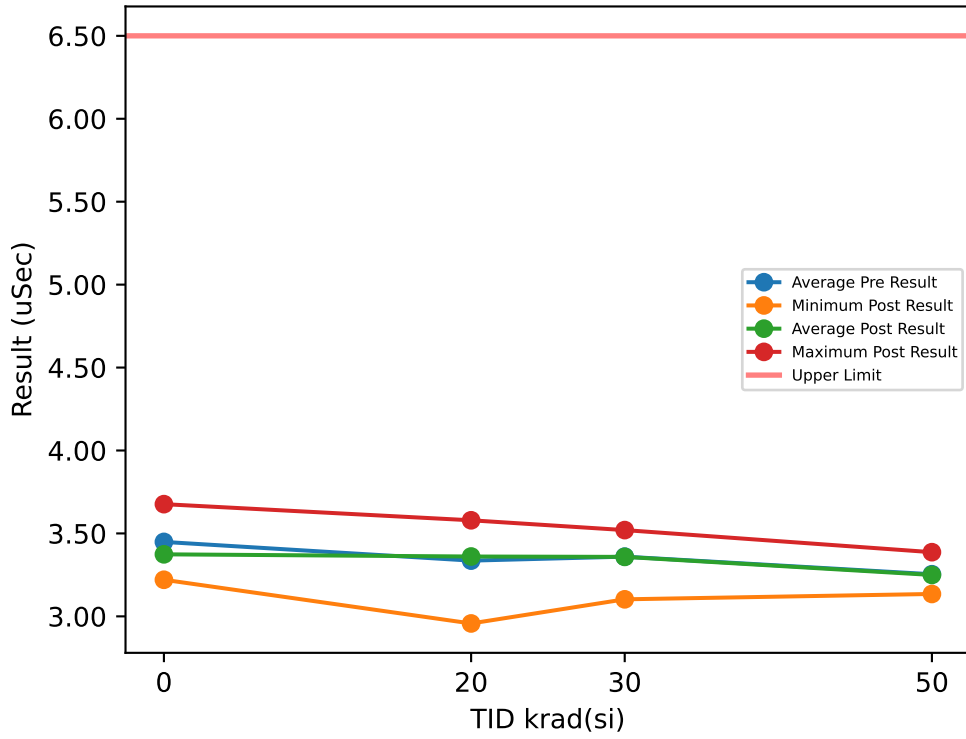
# Device Test: 17.6   TPD_PWRGD(_DELAY|STEP_UP/PWRGD/1.6/3/0/0/0/@TPD_PWRGD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.2959 | 3.5792 | 0.2833 |
| 2 | 20 | Bias | 3.3402 | 3.3451 | 0.0049 |
| 3 | 20 | Bias | 3.4531 | 3.2576 | -0.1955 |
| 4 | 20 | Bias | 3.1532 | 3.5467 | 0.3935 |
| 5 | 20 | Bias | 3.41 | 3.3613 | -0.0487 |
| 6 | 20 | Unbiased | 3.0256 | 3.4187 | 0.3931 |
| 7 | 20 | Unbiased | 3.3877 | 3.3787 | -0.009 |
| 8 | 20 | Unbiased | 3.2306 | 3.4532 | 0.2226 |
| 9 | 20 | Unbiased | 3.6087 | 3.3107 | -0.298 |
| 10 | 20 | Unbiased | 3.4553 | 2.9572 | -0.4981 |
| 11 | 30 | Bias | 3.216 | 3.2027 | -0.0133 |
| 12 | 30 | Bias | 3.3944 | 3.4837 | 0.0893 |
| 13 | 30 | Bias | 3.5586 | 3.4152 | -0.1434 |
| 14 | 30 | Bias | 3.5339 | 3.5081 | -0.0258 |
| 15 | 30 | Bias | 3.1809 | 3.4341 | 0.2532 |
| 16 | 30 | Unbiased | 3.2511 | 3.3644 | 0.1133 |
| 17 | 30 | Unbiased | 3.3837 | 3.144 | -0.2397 |
| 18 | 30 | Unbiased | 3.3222 | 3.4109 | 0.0887 |
| 19 | 30 | Unbiased | 3.4262 | 3.5201 | 0.0939 |
| 20 | 30 | Unbiased | 3.3333 | 3.1027 | -0.2306 |
| 21 | 50 | Bias | 3.0766 | 3.3869 | 0.3103 |
| 22 | 50 | Bias | 3.2681 | 3.2564 | -0.0117 |
| 23 | 50 | Bias | 3.0111 | 3.1934 | 0.1823 |
| 24 | 50 | Bias | 3.3002 | 3.2789 | -0.0213 |
| 25 | 50 | Bias | 3.13 | 3.2939 | 0.1639 |
| 26 | 50 | Unbiased | 3.1884 | 3.135 | -0.0534 |
| 27 | 50 | Unbiased | 3.3313 | 3.3318 | 0.0005 |
| 28 | 50 | Unbiased | 3.273 | 3.2002 | -0.0728 |
| 29 | 50 | Unbiased | 3.5014 | 3.2573 | -0.2441 |
| 30 | 50 | Unbiased | 3.4593 | 3.1626 | -0.2967 |
| 31 | 0 | Correlation | 3.6648 | 3.2453 | -0.4195 |
| 32 | 0 | Correlation | 3.3478 | 3.2206 | -0.1272 |
| 33 | 0 | Correlation | 3.1884 | 3.3536 | 0.1652 |
| 34 | 0 | Correlation | 3.5942 | 3.6765 | 0.0823 |

## Test Statistics (uSec)
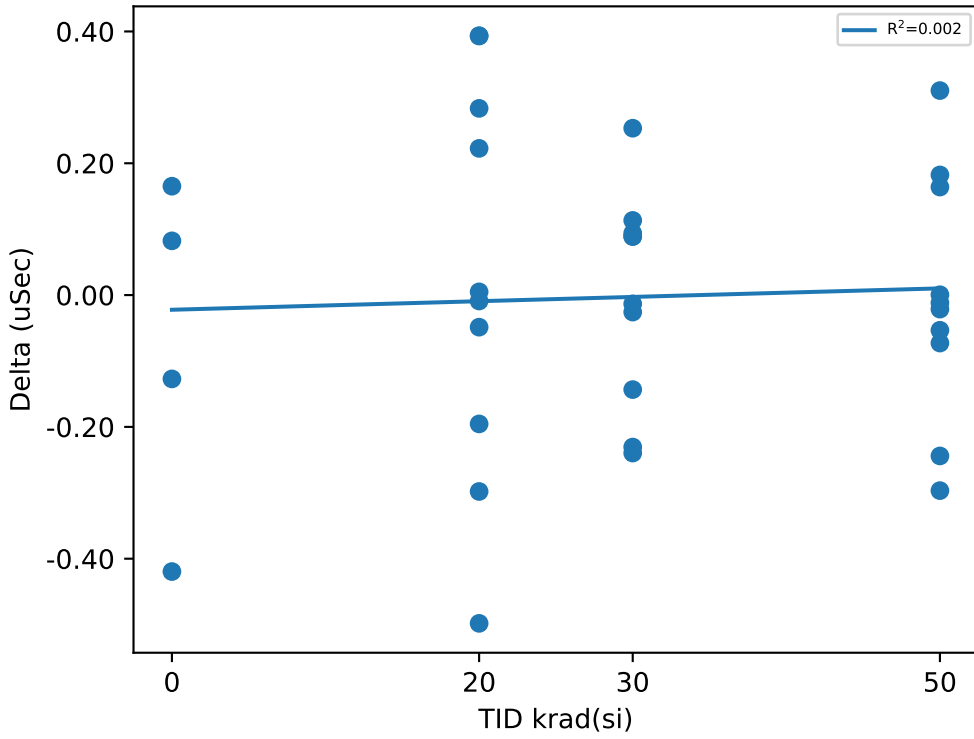
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.1884 | 3.4488 | 3.6648 | 0.22046 | 3.2206 | 3.374 | 3.6765 | 0.20978 | -0.4195 | -0.0748 | 0.1652 | 0.26067 |
| 20 | 3.0256 | 3.336 | 3.6087 | 0.16765 | 2.9572 | 3.3608 | 3.5792 | 0.17345 | -0.4981 | 0.02481 | 0.3935 | 0.30012 |
| 30 | 3.1809 | 3.36 | 3.5586 | 0.12589 | 3.1027 | 3.3586 | 3.5201 | 0.15333 | -0.2397 | -0.00144 | 0.2532 | 0.16112 |
| 50 | 3.0111 | 3.2539 | 3.5014 | 0.15712 | 3.135 | 3.2496 | 3.3869 | 0.078057 | -0.2967 | -0.0043 | 0.3103 | 0.18636 |
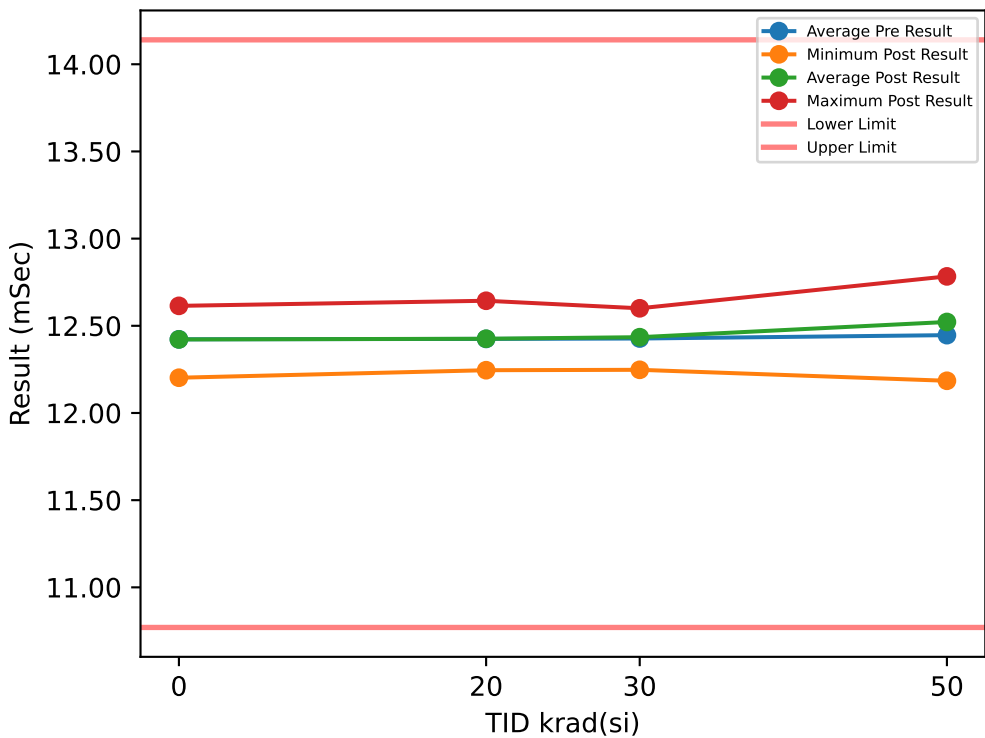
# Device Test: 17.60  DLY_TMR_500KOHM(_DELAY|STEP_UP/EN1/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.282 | 12.42 | 0.1388 |
| 2 | 20 | Bias | 12.548 | 12.644 | 0.0958 |
| 3 | 20 | Bias | 12.13 | 12.297 | 0.1669 |
| 4 | 20 | Bias | 12.613 | 12.636 | 0.0229 |
| 5 | 20 | Bias | 12.459 | 12.477 | 0.0175 |
| 6 | 20 | Unbiased | 12.325 | 12.245 | -0.0798 |
| 7 | 20 | Unbiased | 12.53 | 12.357 | -0.1732 |
| 8 | 20 | Unbiased | 12.345 | 12.281 | -0.0639 |
| 9 | 20 | Unbiased | 12.706 | 12.587 | -0.1196 |
| 10 | 20 | Unbiased | 12.311 | 12.315 | 0.0032 |
| 11 | 30 | Bias | 12.343 | 12.501 | 0.158 |
| 12 | 30 | Bias | 12.481 | 12.273 | -0.2077 |
| 13 | 30 | Bias | 12.42 | 12.317 | -0.1031 |
| 14 | 30 | Bias | 12.17 | 12.584 | 0.4142 |
| 15 | 30 | Bias | 12.409 | 12.248 | -0.161 |
| 16 | 30 | Unbiased | 12.578 | 12.411 | -0.167 |
| 17 | 30 | Unbiased | 12.518 | 12.6 | 0.0828 |
| 18 | 30 | Unbiased | 12.47 | 12.565 | 0.0951 |
| 19 | 30 | Unbiased | 12.371 | 12.462 | 0.0908 |
| 20 | 30 | Unbiased | 12.511 | 12.385 | -0.1259 |
| 21 | 50 | Bias | 12.289 | 12.535 | 0.2462 |
| 22 | 50 | Bias | 12.211 | 12.316 | 0.1051 |
| 23 | 50 | Bias | 12.607 | 12.185 | -0.422 |
| 24 | 50 | Bias | 12.286 | 12.606 | 0.3203 |
| 25 | 50 | Bias | 12.478 | 12.712 | 0.2342 |
| 26 | 50 | Unbiased | 12.658 | 12.728 | 0.0707 |
| 27 | 50 | Unbiased | 12.345 | 12.276 | -0.0689 |
| 28 | 50 | Unbiased | 12.64 | 12.596 | -0.044 |
| 29 | 50 | Unbiased | 12.592 | 12.783 | 0.1916 |
| 30 | 50 | Unbiased | 12.36 | 12.482 | 0.1223 |
| 31 | 0 | Correlation | 12.361 | 12.365 | 0.0047 |
| 32 | 0 | Correlation | 12.269 | 12.202 | -0.0671 |
| 33 | 0 | Correlation | 12.627 | 12.614 | -0.0124 |
| 34 | 0 | Correlation | 12.434 | 12.505 | 0.0717 |

## Test Statistics (mSec)
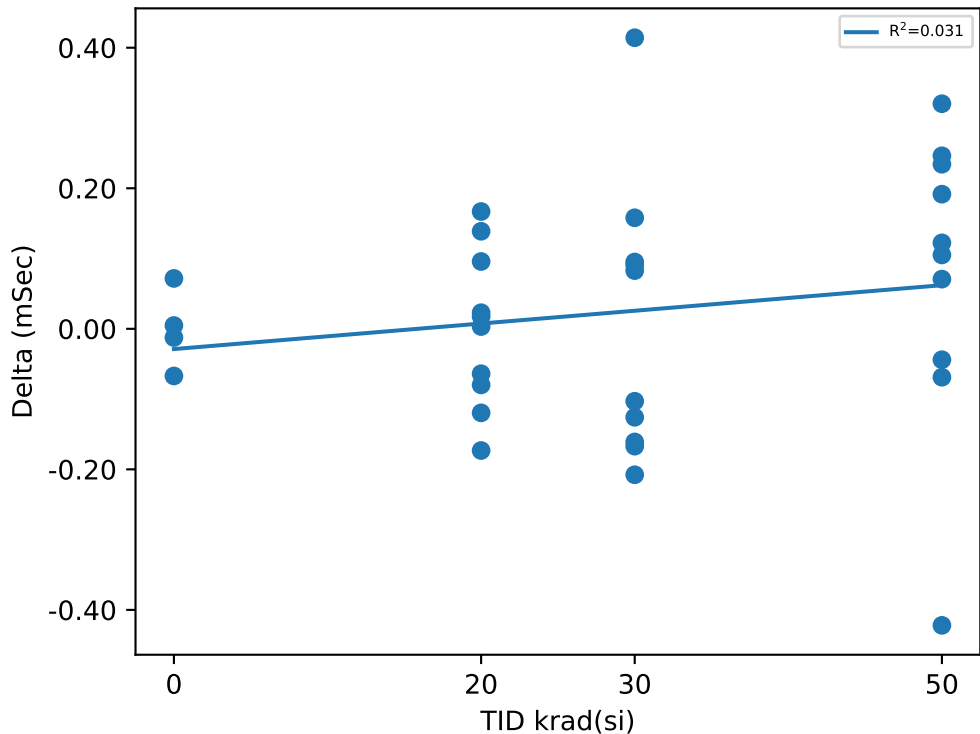
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.269 | 12.423 | 12.627 | 0.15186 | 12.202 | 12.422 | 12.614 | 0.17845 | -0.0671 | -0.000775 | 0.0717 | 0.057204 |
| 20 | 12.13 | 12.425 | 12.706 | 0.17596 | 12.245 | 12.426 | 12.644 | 0.15182 | -0.1732 | 0.00086 | 0.1669 | 0.1115 |
| 30 | 12.17 | 12.427 | 12.578 | 0.1152 | 12.248 | 12.435 | 12.6 | 0.12905 | -0.2077 | 0.00762 | 0.4142 | 0.19537 |
| 50 | 12.211 | 12.446 | 12.658 | 0.16788 | 12.185 | 12.522 | 12.783 | 0.20491 | -0.422 | 0.07555 | 0.3203 | 0.21434 |

# Device Test: 17.61  DLY_TMR_500KOHM(_DELAY|STEP_UP/EN2/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.451 | 12.426 | -0.0255 |
| 2 | 20 | Bias | 12.603 | 12.668 | 0.0648 |
| 3 | 20 | Bias | 12.242 | 12.166 | -0.0759 |
| 4 | 20 | Bias | 12.589 | 12.776 | 0.1873 |
| 5 | 20 | Bias | 12.63 | 12.632 | 0.0022 |
| 6 | 20 | Unbiased | 12.307 | 12.084 | -0.2233 |
| 7 | 20 | Unbiased | 12.528 | 12.501 | -0.0277 |
| 8 | 20 | Unbiased | 12.498 | 12.32 | -0.1773 |
| 9 | 20 | Unbiased | 12.725 | 12.733 | 0.0089 |
| 10 | 20 | Unbiased | 12.297 | 12.201 | -0.0962 |
| 11 | 30 | Bias | 12.348 | 12.508 | 0.1608 |
| 12 | 30 | Bias | 12.454 | 12.438 | -0.0156 |
| 13 | 30 | Bias | 12.559 | 12.471 | -0.0884 |
| 14 | 30 | Bias | 12.322 | 12.58 | 0.2579 |
| 15 | 30 | Bias | 12.559 | 12.387 | -0.1715 |
| 16 | 30 | Unbiased | 12.598 | 12.531 | -0.0669 |
| 17 | 30 | Unbiased | 12.64 | 12.563 | -0.0769 |
| 18 | 30 | Unbiased | 12.462 | 12.715 | 0.2527 |
| 19 | 30 | Unbiased | 12.385 | 12.457 | 0.0726 |
| 20 | 30 | Unbiased | 12.509 | 12.232 | -0.2765 |
| 21 | 50 | Bias | 12.116 | 12.499 | 0.3835 |
| 22 | 50 | Bias | 12.266 | 12.315 | 0.0492 |
| 23 | 50 | Bias | 12.588 | 12.314 | -0.2743 |
| 24 | 50 | Bias | 12.424 | 12.587 | 0.1625 |
| 25 | 50 | Bias | 12.664 | 12.733 | 0.0684 |
| 26 | 50 | Unbiased | 12.672 | 12.77 | 0.0979 |
| 27 | 50 | Unbiased | 12.495 | 12.304 | -0.1914 |
| 28 | 50 | Unbiased | 12.644 | 12.484 | -0.1598 |
| 29 | 50 | Unbiased | 12.742 | 12.797 | 0.0552 |
| 30 | 50 | Unbiased | 12.494 | 12.621 | 0.1276 |
| 31 | 0 | Correlation | 12.508 | 12.373 | -0.1352 |
| 32 | 0 | Correlation | 12.265 | 12.259 | -0.0062 |
| 33 | 0 | Correlation | 12.607 | 12.597 | -0.0104 |
| 34 | 0 | Correlation | 12.594 | 12.513 | -0.081 |

## Test Statistics (mSec)
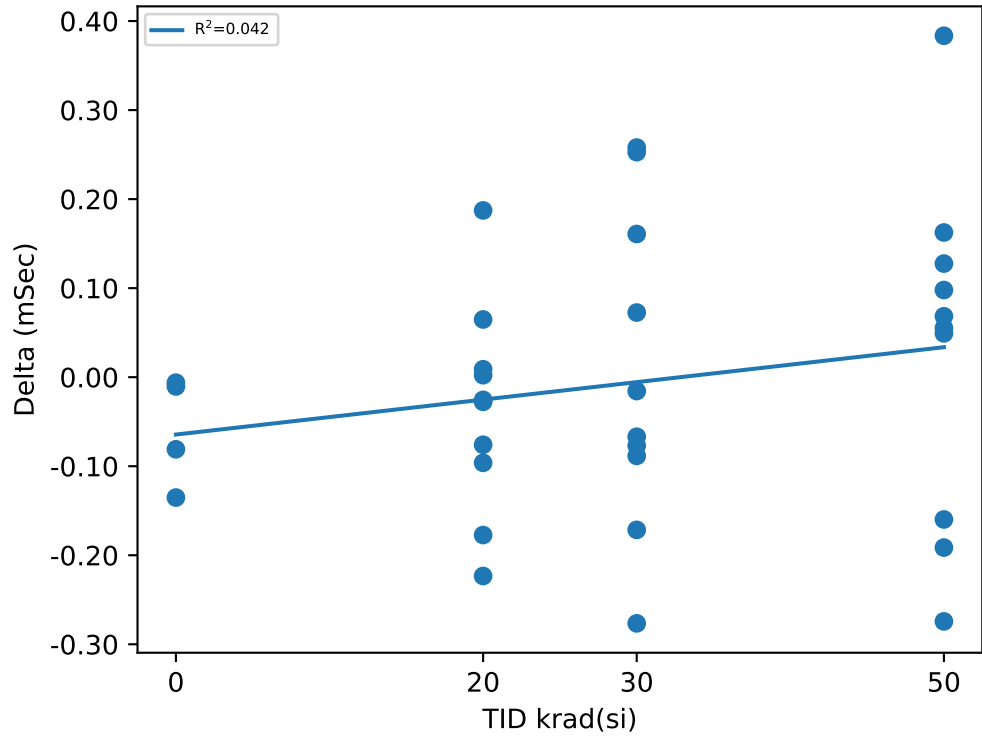
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.265 | 12.494 | 12.607 | 0.15853 | 12.259 | 12.435 | 12.597 | 0.14958 | -0.1352 | -0.0582 | -0.0062 | 0.061746 |
| 20 | 12.242 | 12.487 | 12.725 | 0.16054 | 12.084 | 12.451 | 12.776 | 0.2502 | -0.2233 | -0.03627 | 0.1873 | 0.11735 |
| 30 | 12.322 | 12.484 | 12.64 | 0.10823 | 12.232 | 12.488 | 12.715 | 0.12791 | -0.2765 | 0.00482 | 0.2579 | 0.17813 |
| 50 | 12.116 | 12.51 | 12.742 | 0.19743 | 12.304 | 12.542 | 12.797 | 0.19069 | -0.2743 | 0.03188 | 0.3835 | 0.19343 |
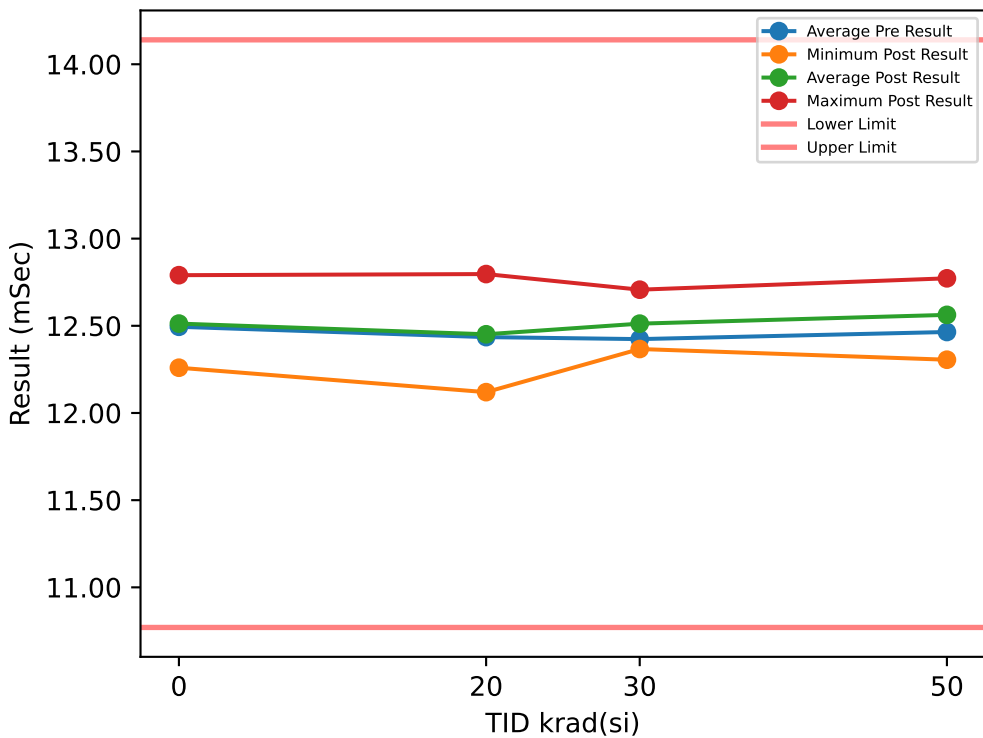
# Device Test: 17.62 DLY_TMR_500KOHM(_DELAY|STEP_UP/EN3/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

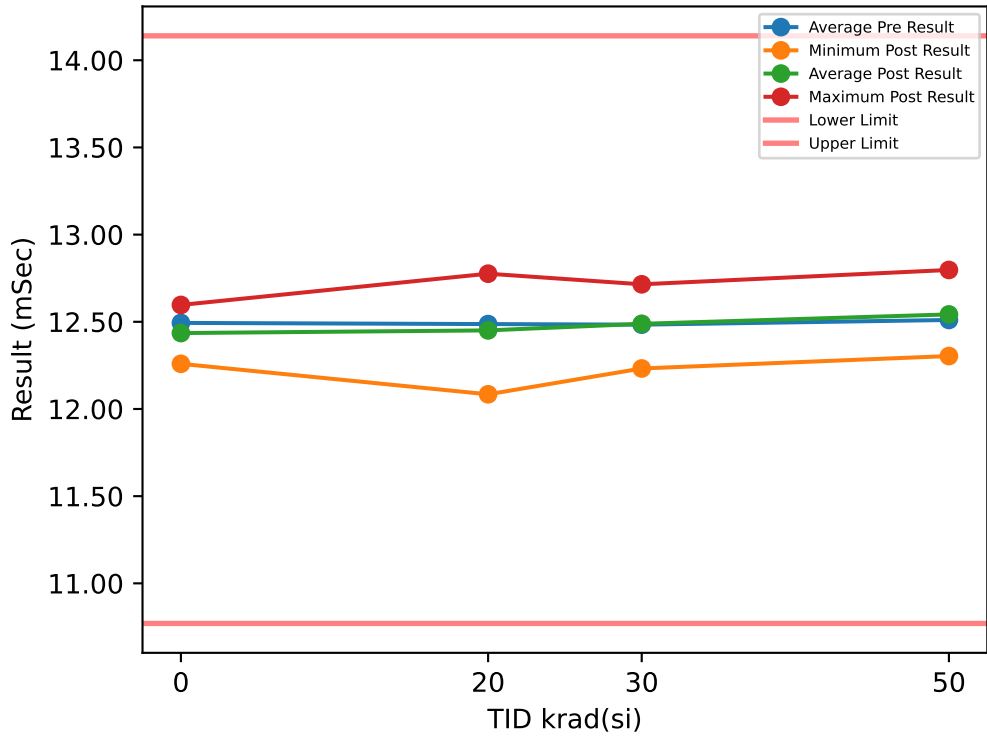| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.451 | 12.279 | -0.1717 |
| 2 | 20 | Bias | 12.507 | 12.67 | 0.1634 |
| 3 | 20 | Bias | 12.127 | 12.167 | 0.0399 |
| 4 | 20 | Bias | 12.596 | 12.797 | 0.2006 |
| 5 | 20 | Bias | 12.631 | 12.632 | 0.0014 |
| 6 | 20 | Unbiased | 12.299 | 12.12 | -0.1796 |
| 7 | 20 | Unbiased | 12.526 | 12.501 | -0.0259 |
| 8 | 20 | Unbiased | 12.499 | 12.442 | -0.0572 |
| 9 | 20 | Unbiased | 12.55 | 12.719 | 0.1691 |
| 10 | 20 | Unbiased | 12.164 | 12.187 | 0.0228 |
| 11 | 30 | Bias | 12.238 | 12.511 | 0.2726 |
| 12 | 30 | Bias | 12.328 | 12.43 | 0.1025 |
| 13 | 30 | Bias | 12.554 | 12.496 | -0.0577 |
| 14 | 30 | Bias | 12.201 | 12.582 | 0.3808 |
| 15 | 30 | Bias | 12.532 | 12.393 | -0.1393 |
| 16 | 30 | Unbiased | 12.597 | 12.548 | -0.0492 |
| 17 | 30 | Unbiased | 12.665 | 12.603 | -0.0626 |
| 18 | 30 | Unbiased | 12.344 | 12.707 | 0.3636 |
| 19 | 30 | Unbiased | 12.268 | 12.488 | 0.2199 |
| 20 | 30 | Unbiased | 12.511 | 12.367 | -0.1439 |
| 21 | 50 | Bias | 12.258 | 12.529 | 0.2705 |
| 22 | 50 | Bias | 12.125 | 12.306 | 0.1804 |
| 23 | 50 | Bias | 12.776 | 12.334 | -0.4415 |
| 24 | 50 | Bias | 12.308 | 12.59 | 0.2824 |
| 25 | 50 | Bias | 12.66 | 12.732 | 0.0727 |
| 26 | 50 | Unbiased | 12.502 | 12.772 | 0.2704 |
| 27 | 50 | Unbiased | 12.359 | 12.427 | 0.0675 |
| 28 | 50 | Unbiased | 12.566 | 12.616 | 0.0505 |
| 29 | 50 | Unbiased | 12.563 | 12.698 | 0.1345 |
| 30 | 50 | Unbiased | 12.528 | 12.623 | 0.095 |
| 31 | 0 | Correlation | 12.511 | 12.488 | -0.0233 |
| 32 | 0 | Correlation | 12.262 | 12.26 | -0.0027 |
| 33 | 0 | Correlation | 12.608 | 12.79 | 0.1821 |
| 34 | 0 | Correlation | 12.596 | 12.513 | -0.0827 |

## Test Statistics (mSec)
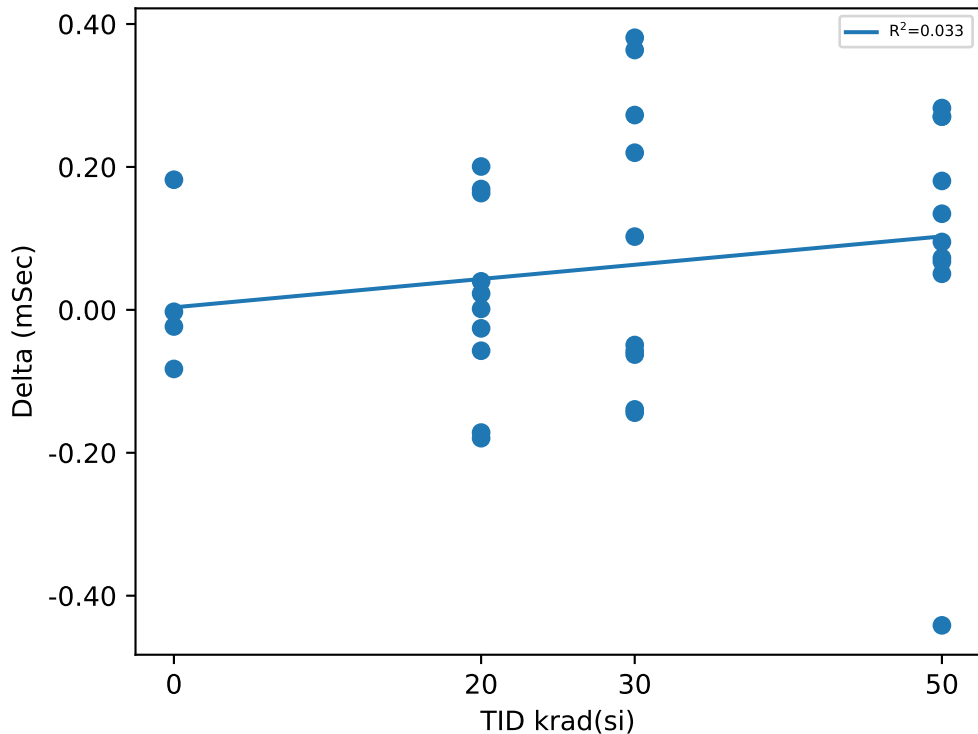
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.262 | 12.494 | 12.608 | 0.16066 | 12.26 | 12.513 | 12.79 | 0.21738 | -0.0827 | 0.01835 | 0.1821 | 0.11431 |
| 20 | 12.127 | 12.435 | 12.631 | 0.17693 | 12.12 | 12.451 | 12.797 | 0.25043 | -0.1796 | 0.01628 | 0.2006 | 0.13362 |
| 30 | 12.201 | 12.424 | 12.665 | 0.16624 | 12.367 | 12.512 | 12.707 | 0.10289 | -0.1439 | 0.08867 | 0.3808 | 0.2059 |
| 50 | 12.125 | 12.464 | 12.776 | 0.19832 | 12.306 | 12.563 | 12.772 | 0.16201 | -0.4415 | 0.09824 | 0.2824 | 0.20989 |
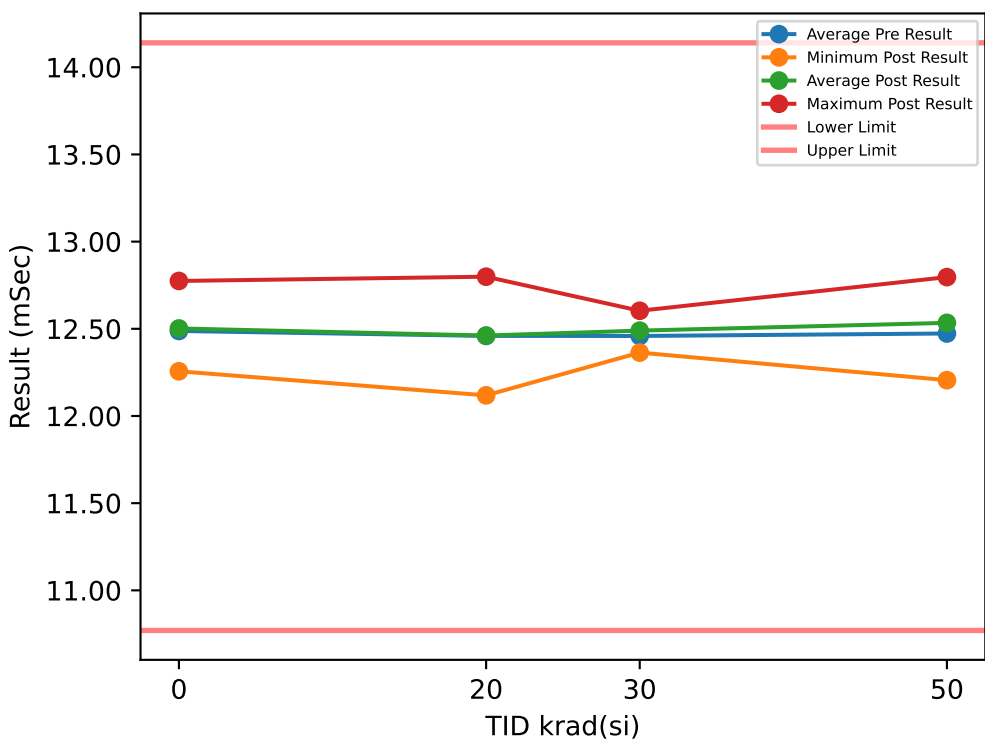
# Device Test: 17.63  DLY_TMR_500KOHM(_DELAY|STEP_UP/EN4/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.454 | 12.309 | -0.1449 |
| 2 | 20 | Bias | 12.508 | 12.655 | 0.1474 |
| 3 | 20 | Bias | 12.243 | 12.157 | -0.0857 |
| 4 | 20 | Bias | 12.598 | 12.799 | 0.2011 |
| 5 | 20 | Bias | 12.606 | 12.611 | 0.0048 |
| 6 | 20 | Unbiased | 12.31 | 12.118 | -0.1919 |
| 7 | 20 | Unbiased | 12.53 | 12.497 | -0.0337 |
| 8 | 20 | Unbiased | 12.493 | 12.437 | -0.0555 |
| 9 | 20 | Unbiased | 12.551 | 12.715 | 0.1643 |
| 10 | 20 | Unbiased | 12.299 | 12.314 | 0.0149 |
| 11 | 30 | Bias | 12.352 | 12.505 | 0.1533 |
| 12 | 30 | Bias | 12.454 | 12.434 | -0.0196 |
| 13 | 30 | Bias | 12.562 | 12.472 | -0.09 |
| 14 | 30 | Bias | 12.203 | 12.561 | 0.3579 |
| 15 | 30 | Bias | 12.538 | 12.384 | -0.154 |
| 16 | 30 | Unbiased | 12.456 | 12.562 | 0.1062 |
| 17 | 30 | Unbiased | 12.663 | 12.603 | -0.0593 |
| 18 | 30 | Unbiased | 12.465 | 12.53 | 0.0658 |
| 19 | 30 | Unbiased | 12.388 | 12.48 | 0.0916 |
| 20 | 30 | Unbiased | 12.509 | 12.364 | -0.1455 |
| 21 | 50 | Bias | 12.142 | 12.515 | 0.3724 |
| 22 | 50 | Bias | 12.27 | 12.319 | 0.0498 |
| 23 | 50 | Bias | 12.786 | 12.205 | -0.5801 |
| 24 | 50 | Bias | 12.424 | 12.589 | 0.1649 |
| 25 | 50 | Bias | 12.479 | 12.732 | 0.2536 |
| 26 | 50 | Unbiased | 12.501 | 12.772 | 0.2716 |
| 27 | 50 | Unbiased | 12.499 | 12.307 | -0.1922 |
| 28 | 50 | Unbiased | 12.566 | 12.615 | 0.0494 |
| 29 | 50 | Unbiased | 12.564 | 12.796 | 0.2326 |
| 30 | 50 | Unbiased | 12.502 | 12.489 | -0.0125 |
| 31 | 0 | Correlation | 12.504 | 12.484 | -0.0206 |
| 32 | 0 | Correlation | 12.268 | 12.256 | -0.0115 |
| 33 | 0 | Correlation | 12.606 | 12.774 | 0.1688 |
| 34 | 0 | Correlation | 12.572 | 12.494 | -0.0786 |

## Test Statistics (mSec)
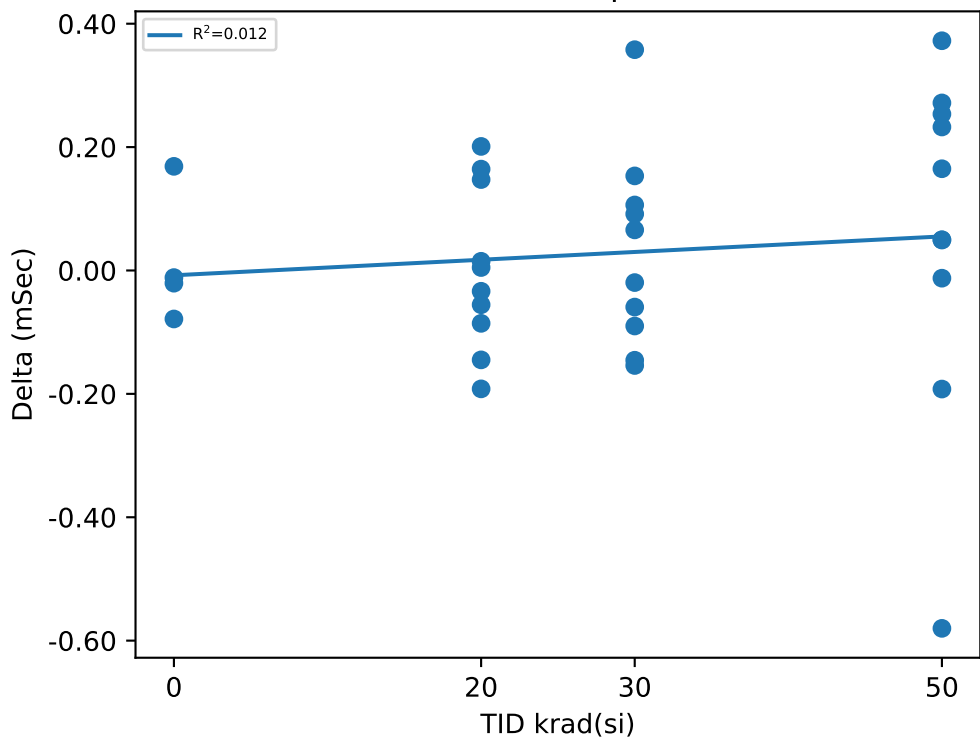
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.268 | 12.488 | 12.606 | 0.15241 | 12.256 | 12.502 | 12.774 | 0.21211 | -0.0786 | 0.014525 | 0.1688 | 0.10706 |
| 20 | 12.243 | 12.459 | 12.606 | 0.1302 | 12.118 | 12.461 | 12.799 | 0.23462 | -0.1919 | 0.00208 | 0.2011 | 0.13281 |
| 30 | 12.203 | 12.459 | 12.663 | 0.12601 | 12.364 | 12.49 | 12.603 | 0.078656 | -0.154 | 0.03064 | 0.3579 | 0.15744 |
| 50 | 12.142 | 12.473 | 12.786 | 0.17321 | 12.205 | 12.534 | 12.796 | 0.20611 | -0.5801 | 0.06095 | 0.3724 | 0.27878 |
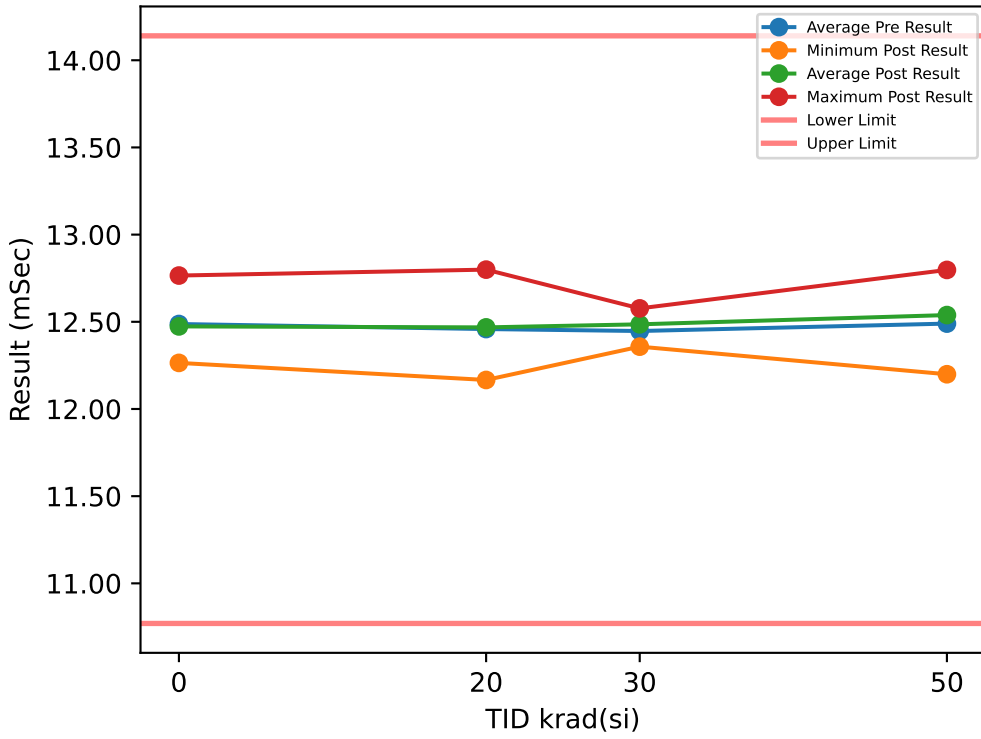
# Device Test: 17.64  DLY_TMR_500KOHM(_DELAY|STEP_UP/SEQ_DONE/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.445 | 12.289 | -0.1564 |
| 2 | 20 | Bias | 12.704 | 12.665 | -0.0385 |
| 3 | 20 | Bias | 12.244 | 12.166 | -0.0776 |
| 4 | 20 | Bias | 12.597 | 12.799 | 0.2019 |
| 5 | 20 | Bias | 12.624 | 12.613 | -0.0109 |
| 6 | 20 | Unbiased | 12.195 | 12.273 | 0.078 |
| 7 | 20 | Unbiased | 12.392 | 12.506 | 0.1134 |
| 8 | 20 | Unbiased | 12.482 | 12.442 | -0.0406 |
| 9 | 20 | Unbiased | 12.734 | 12.716 | -0.0177 |
| 10 | 20 | Unbiased | 12.167 | 12.211 | 0.0442 |
| 11 | 30 | Bias | 12.219 | 12.512 | 0.2933 |
| 12 | 30 | Bias | 12.446 | 12.435 | -0.0109 |
| 13 | 30 | Bias | 12.563 | 12.466 | -0.0964 |
| 14 | 30 | Bias | 12.323 | 12.55 | 0.2268 |
| 15 | 30 | Bias | 12.562 | 12.393 | -0.1687 |
| 16 | 30 | Unbiased | 12.462 | 12.54 | 0.0783 |
| 17 | 30 | Unbiased | 12.664 | 12.577 | -0.0869 |
| 18 | 30 | Unbiased | 12.463 | 12.537 | 0.0742 |
| 19 | 30 | Unbiased | 12.389 | 12.487 | 0.0976 |
| 20 | 30 | Unbiased | 12.381 | 12.357 | -0.0239 |
| 21 | 50 | Bias | 12.135 | 12.509 | 0.3743 |
| 22 | 50 | Bias | 12.141 | 12.199 | 0.0583 |
| 23 | 50 | Bias | 12.783 | 12.208 | -0.5753 |
| 24 | 50 | Bias | 12.429 | 12.751 | 0.3221 |
| 25 | 50 | Bias | 12.481 | 12.733 | 0.2518 |
| 26 | 50 | Unbiased | 12.685 | 12.772 | 0.0876 |
| 27 | 50 | Unbiased | 12.496 | 12.424 | -0.0721 |
| 28 | 50 | Unbiased | 12.653 | 12.491 | -0.1616 |
| 29 | 50 | Unbiased | 12.564 | 12.797 | 0.2331 |
| 30 | 50 | Unbiased | 12.53 | 12.501 | -0.0292 |
| 31 | 0 | Correlation | 12.511 | 12.35 | -0.1606 |
| 32 | 0 | Correlation | 12.27 | 12.264 | -0.0054 |
| 33 | 0 | Correlation | 12.603 | 12.765 | 0.1622 |
| 34 | 0 | Correlation | 12.565 | 12.514 | -0.0509 |

## Test Statistics (mSec)
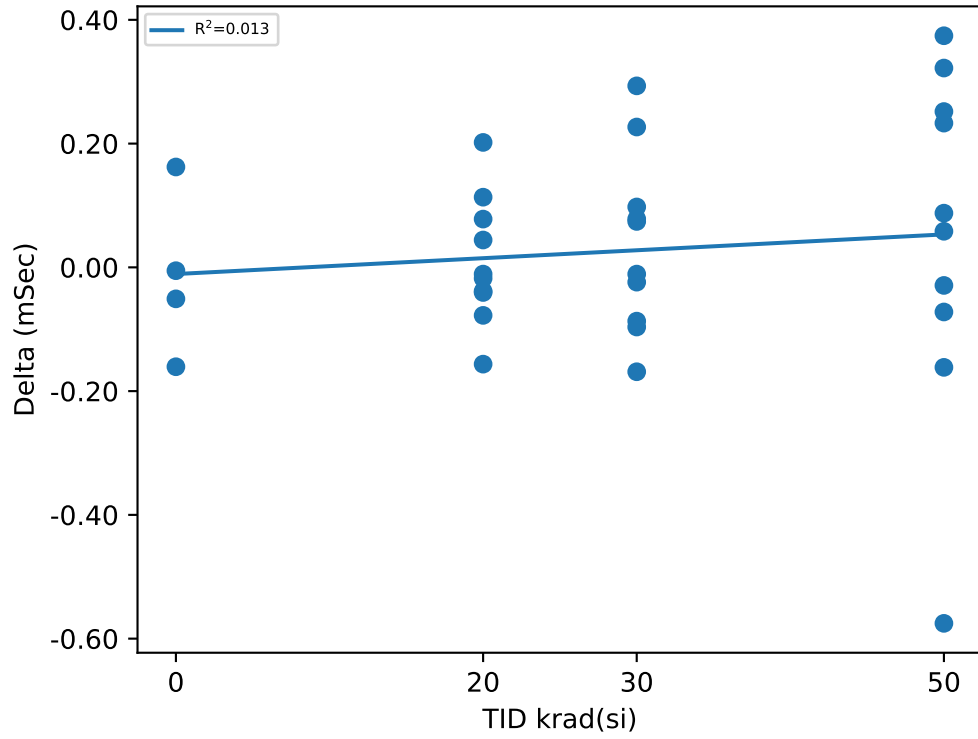
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.27 | 12.487 | 12.603 | 0.14991 | 12.264 | 12.474 | 12.765 | 0.22043 | -0.1606 | -0.013675 | 0.1622 | 0.13413 |
| 20 | 12.167 | 12.458 | 12.734 | 0.20771 | 12.166 | 12.468 | 12.799 | 0.22621 | -0.1564 | 0.00958 | 0.2019 | 0.10263 |
| 30 | 12.219 | 12.447 | 12.664 | 0.12872 | 12.357 | 12.486 | 12.577 | 0.07207 | -0.1687 | 0.03834 | 0.2933 | 0.14527 |
| 50 | 12.135 | 12.49 | 12.783 | 0.21324 | 12.199 | 12.539 | 12.797 | 0.22277 | -0.5753 | 0.0489 | 0.3743 | 0.28124 |
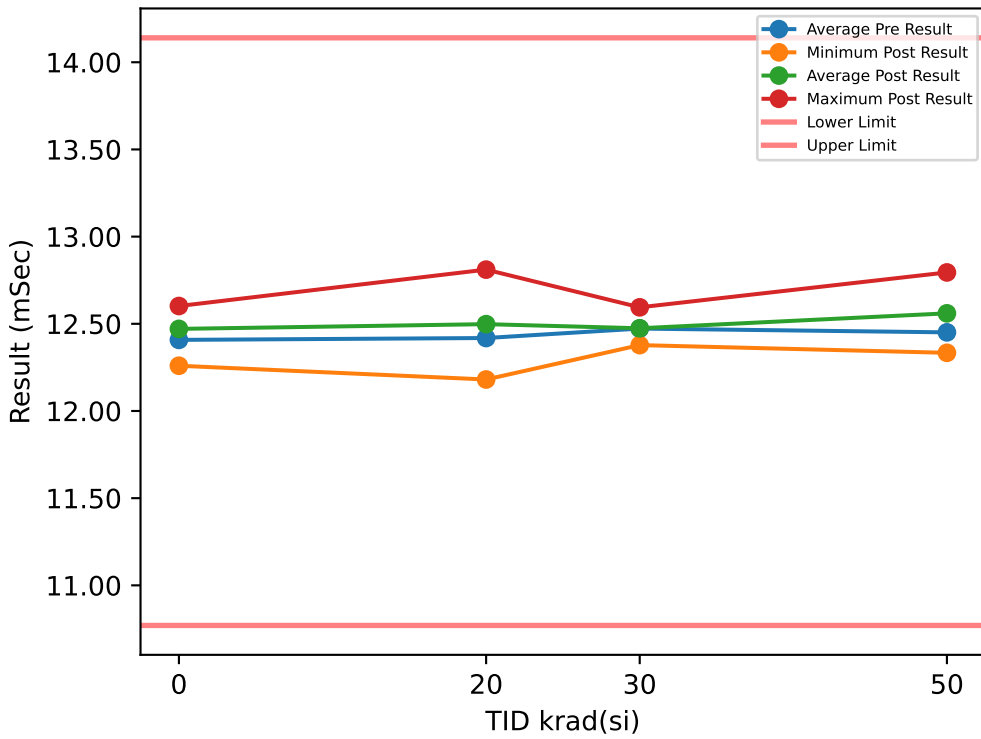
# Device Test: 17.65  DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN1/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.467 | 12.436 | -0.031 |
| 2 | 20 | Bias | 12.508 | 12.669 | 0.1604 |
| 3 | 20 | Bias | 12.249 | 12.181 | -0.0689 |
| 4 | 20 | Bias | 12.594 | 12.811 | 0.2166 |
| 5 | 20 | Bias | 12.449 | 12.646 | 0.197 |
| 6 | 20 | Unbiased | 12.299 | 12.232 | -0.0673 |
| 7 | 20 | Unbiased | 12.347 | 12.519 | 0.1716 |
| 8 | 20 | Unbiased | 12.413 | 12.428 | 0.0149 |
| 9 | 20 | Unbiased | 12.545 | 12.733 | 0.1883 |
| 10 | 20 | Unbiased | 12.312 | 12.326 | 0.0139 |
| 11 | 30 | Bias | 12.366 | 12.428 | 0.0618 |
| 12 | 30 | Bias | 12.457 | 12.451 | -0.0062 |
| 13 | 30 | Bias | 12.551 | 12.509 | -0.0422 |
| 14 | 30 | Bias | 12.331 | 12.398 | 0.0669 |
| 15 | 30 | Bias | 12.561 | 12.399 | -0.1623 |
| 16 | 30 | Unbiased | 12.415 | 12.54 | 0.1248 |
| 17 | 30 | Unbiased | 12.651 | 12.595 | -0.0565 |
| 18 | 30 | Unbiased | 12.466 | 12.55 | 0.0847 |
| 19 | 30 | Unbiased | 12.403 | 12.496 | 0.0925 |
| 20 | 30 | Unbiased | 12.524 | 12.378 | -0.1458 |
| 21 | 50 | Bias | 12.272 | 12.526 | 0.2536 |
| 22 | 50 | Bias | 12.27 | 12.334 | 0.0632 |
| 23 | 50 | Bias | 12.587 | 12.348 | -0.2387 |
| 24 | 50 | Bias | 12.419 | 12.771 | 0.352 |
| 25 | 50 | Bias | 12.487 | 12.547 | 0.06 |
| 26 | 50 | Unbiased | 12.515 | 12.585 | 0.07 |
| 27 | 50 | Unbiased | 12.414 | 12.431 | 0.0179 |
| 28 | 50 | Unbiased | 12.64 | 12.628 | -0.0123 |
| 29 | 50 | Unbiased | 12.56 | 12.795 | 0.235 |
| 30 | 50 | Unbiased | 12.345 | 12.635 | 0.2895 |
| 31 | 0 | Correlation | 12.328 | 12.501 | 0.1737 |
| 32 | 0 | Correlation | 12.273 | 12.259 | -0.0137 |
| 33 | 0 | Correlation | 12.619 | 12.602 | -0.0168 |
| 34 | 0 | Correlation | 12.412 | 12.521 | 0.1089 |

## Test Statistics (mSec)
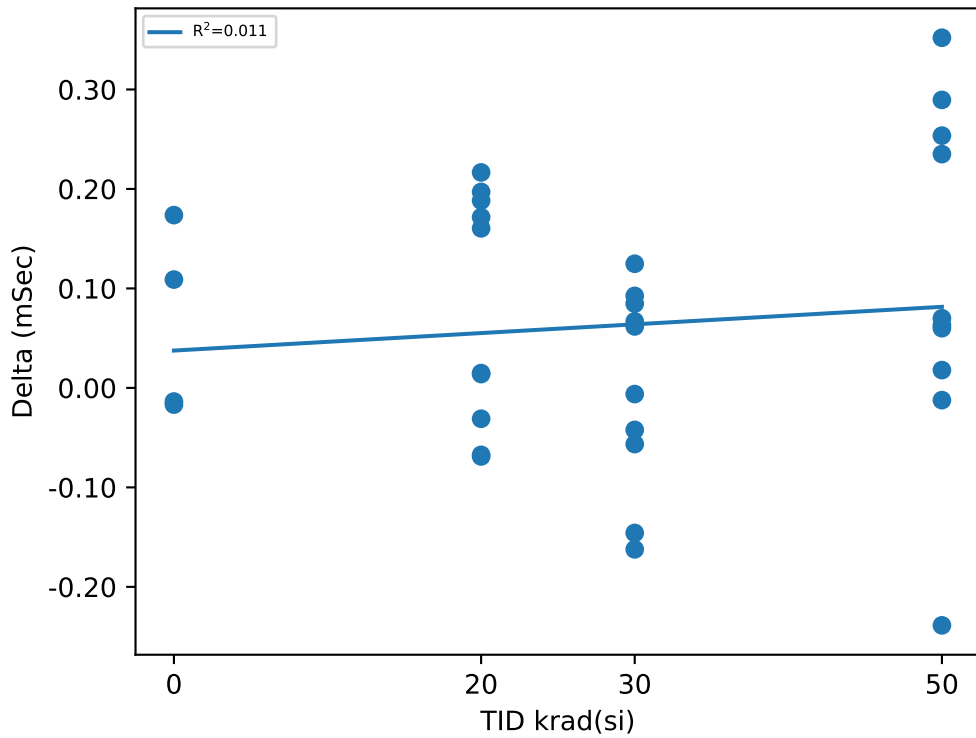
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.273 | 12.408 | 12.619 | 0.15175 | 12.259 | 12.471 | 12.602 | 0.1475 | -0.0168 | 0.063025 | 0.1737 | 0.094185 |
| 20 | 12.249 | 12.418 | 12.594 | 0.11422 | 12.181 | 12.498 | 12.811 | 0.21461 | -0.0689 | 0.07955 | 0.2166 | 0.11725 |
| 30 | 12.331 | 12.473 | 12.651 | 0.098969 | 12.378 | 12.474 | 12.595 | 0.074329 | -0.1623 | 0.00177 | 0.1248 | 0.1012 |
| 50 | 12.27 | 12.451 | 12.64 | 0.12899 | 12.334 | 12.56 | 12.795 | 0.15793 | -0.2387 | 0.10902 | 0.352 | 0.17586 |
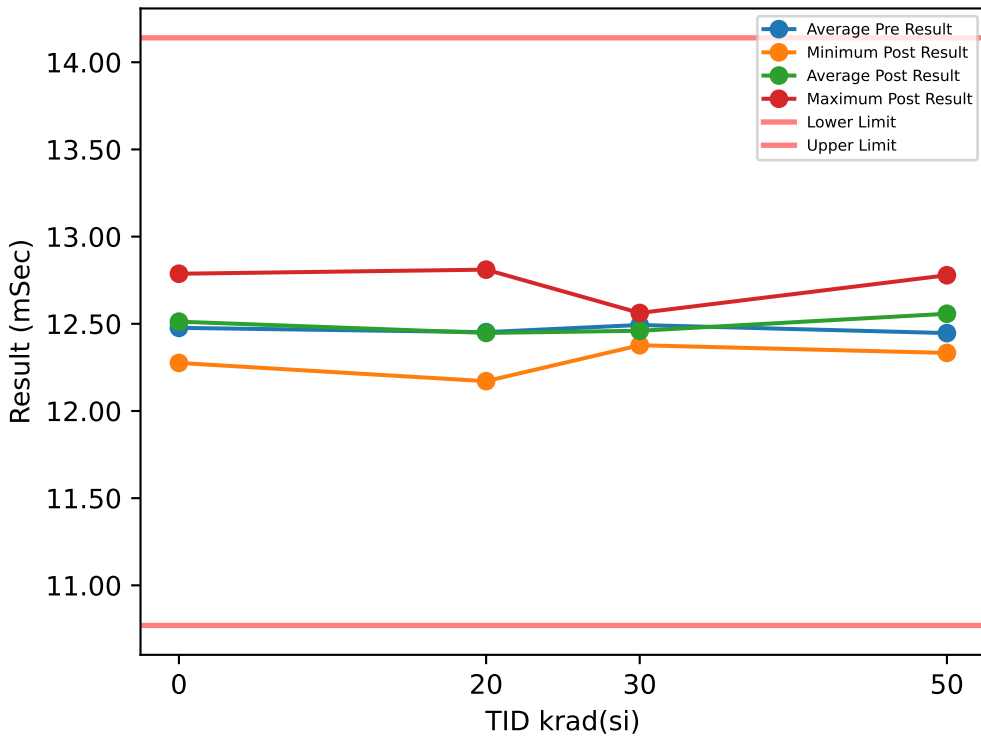
# Device Test: 17.66  DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN2/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.465 | 12.42 | -0.0447 |
| 2 | 20 | Bias | 12.52 | 12.484 | -0.0355 |
| 3 | 20 | Bias | 12.255 | 12.171 | -0.0835 |
| 4 | 20 | Bias | 12.609 | 12.811 | 0.202 |
| 5 | 20 | Bias | 12.445 | 12.644 | 0.199 |
| 6 | 20 | Unbiased | 12.324 | 12.229 | -0.095 |
| 7 | 20 | Unbiased | 12.522 | 12.518 | -0.0036 |
| 8 | 20 | Unbiased | 12.511 | 12.453 | -0.0571 |
| 9 | 20 | Unbiased | 12.563 | 12.548 | -0.0142 |
| 10 | 20 | Unbiased | 12.311 | 12.197 | -0.1137 |
| 11 | 30 | Bias | 12.354 | 12.519 | 0.1644 |
| 12 | 30 | Bias | 12.448 | 12.451 | 0.0029 |
| 13 | 30 | Bias | 12.562 | 12.477 | -0.0848 |
| 14 | 30 | Bias | 12.335 | 12.562 | 0.227 |
| 15 | 30 | Bias | 12.558 | 12.405 | -0.1533 |
| 16 | 30 | Unbiased | 12.605 | 12.377 | -0.2281 |
| 17 | 30 | Unbiased | 12.667 | 12.419 | -0.2475 |
| 18 | 30 | Unbiased | 12.478 | 12.543 | 0.0651 |
| 19 | 30 | Unbiased | 12.402 | 12.47 | 0.0674 |
| 20 | 30 | Unbiased | 12.522 | 12.377 | -0.145 |
| 21 | 50 | Bias | 12.152 | 12.514 | 0.3621 |
| 22 | 50 | Bias | 12.282 | 12.333 | 0.0513 |
| 23 | 50 | Bias | 12.602 | 12.343 | -0.2592 |
| 24 | 50 | Bias | 12.441 | 12.591 | 0.1507 |
| 25 | 50 | Bias | 12.492 | 12.739 | 0.2473 |
| 26 | 50 | Unbiased | 12.51 | 12.578 | 0.0677 |
| 27 | 50 | Unbiased | 12.493 | 12.438 | -0.0551 |
| 28 | 50 | Unbiased | 12.478 | 12.627 | 0.1485 |
| 29 | 50 | Unbiased | 12.576 | 12.778 | 0.2028 |
| 30 | 50 | Unbiased | 12.441 | 12.633 | 0.1922 |
| 31 | 0 | Correlation | 12.424 | 12.482 | 0.0577 |
| 32 | 0 | Correlation | 12.281 | 12.276 | -0.0056 |
| 33 | 0 | Correlation | 12.619 | 12.787 | 0.1679 |
| 34 | 0 | Correlation | 12.583 | 12.505 | -0.0775 |

## Test Statistics (mSec)
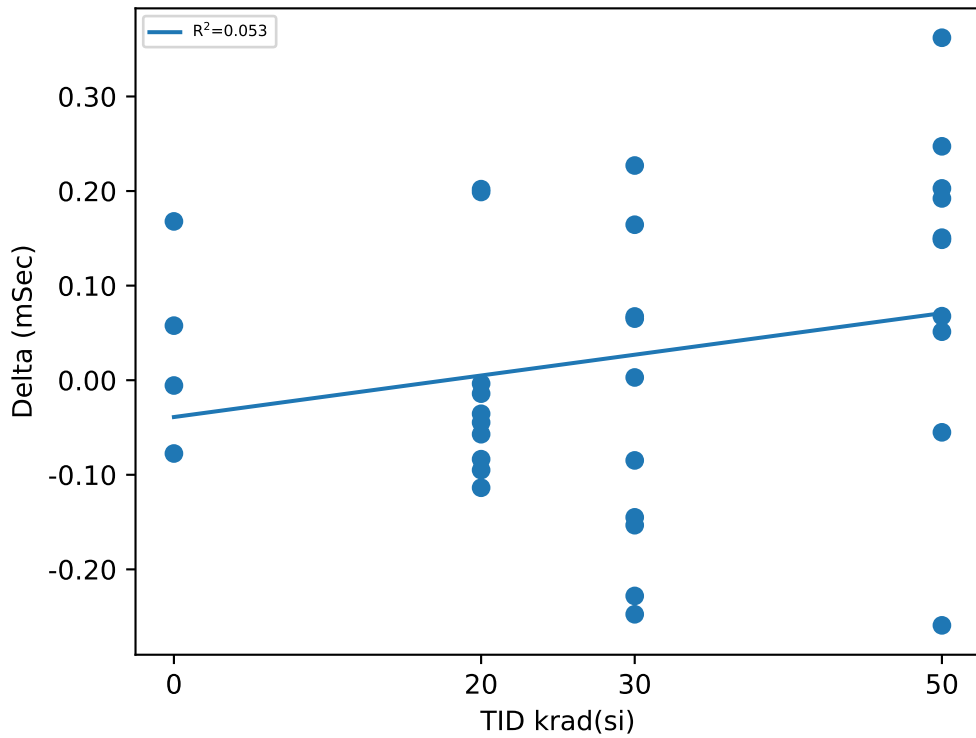
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.281 | 12.477 | 12.619 | 0.15552 | 12.276 | 12.512 | 12.787 | 0.21019 | -0.0775 | 0.035625 | 0.1679 | 0.10405 |
| 20 | 12.255 | 12.452 | 12.609 | 0.11797 | 12.171 | 12.448 | 12.811 | 0.20403 | -0.1137 | -0.00463 | 0.202 | 0.11346 |
| 30 | 12.335 | 12.493 | 12.667 | 0.10914 | 12.377 | 12.46 | 12.562 | 0.066475 | -0.2475 | -0.03319 | 0.227 | 0.16375 |
| 50 | 12.152 | 12.447 | 12.602 | 0.13515 | 12.333 | 12.558 | 12.778 | 0.15146 | -0.2592 | 0.11083 | 0.3621 | 0.17311 |
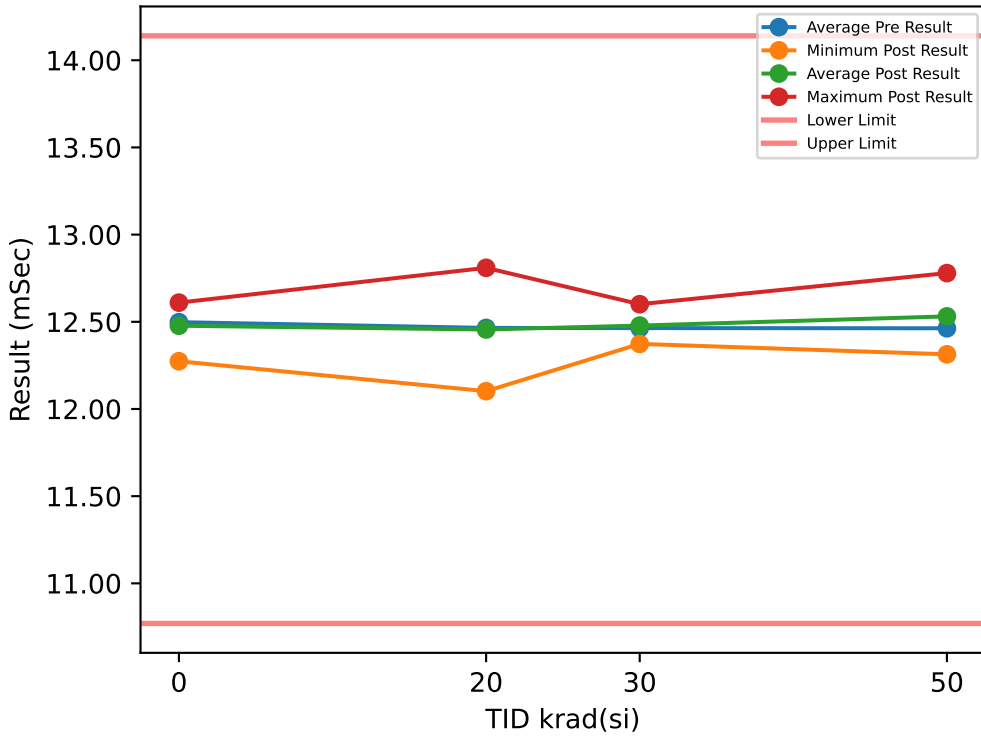
# Device Test: 17.67  DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN3/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.45 | 12.436 | -0.0139 |
| 2 | 20 | Bias | 12.694 | 12.669 | -0.0245 |
| 3 | 20 | Bias | 12.255 | 12.179 | -0.0756 |
| 4 | 20 | Bias | 12.608 | 12.81 | 0.2019 |
| 5 | 20 | Bias | 12.622 | 12.636 | 0.0134 |
| 6 | 20 | Unbiased | 12.318 | 12.102 | -0.2163 |
| 7 | 20 | Unbiased | 12.346 | 12.517 | 0.1707 |
| 8 | 20 | Unbiased | 12.51 | 12.452 | -0.0574 |
| 9 | 20 | Unbiased | 12.562 | 12.547 | -0.0155 |
| 10 | 20 | Unbiased | 12.284 | 12.21 | -0.0735 |
| 11 | 30 | Bias | 12.363 | 12.522 | 0.159 |
| 12 | 30 | Bias | 12.46 | 12.418 | -0.0428 |
| 13 | 30 | Bias | 12.573 | 12.508 | -0.065 |
| 14 | 30 | Bias | 12.326 | 12.564 | 0.238 |
| 15 | 30 | Bias | 12.571 | 12.373 | -0.1981 |
| 16 | 30 | Unbiased | 12.512 | 12.375 | -0.1379 |
| 17 | 30 | Unbiased | 12.476 | 12.601 | 0.1245 |
| 18 | 30 | Unbiased | 12.458 | 12.548 | 0.0903 |
| 19 | 30 | Unbiased | 12.386 | 12.498 | 0.1122 |
| 20 | 30 | Unbiased | 12.513 | 12.377 | -0.1364 |
| 21 | 50 | Bias | 12.257 | 12.518 | 0.2608 |
| 22 | 50 | Bias | 12.275 | 12.32 | 0.0446 |
| 23 | 50 | Bias | 12.602 | 12.346 | -0.2566 |
| 24 | 50 | Bias | 12.434 | 12.6 | 0.1658 |
| 25 | 50 | Bias | 12.659 | 12.724 | 0.0649 |
| 26 | 50 | Unbiased | 12.505 | 12.584 | 0.079 |
| 27 | 50 | Unbiased | 12.498 | 12.313 | -0.1844 |
| 28 | 50 | Unbiased | 12.478 | 12.626 | 0.148 |
| 29 | 50 | Unbiased | 12.575 | 12.779 | 0.2041 |
| 30 | 50 | Unbiased | 12.344 | 12.5 | 0.156 |
| 31 | 0 | Correlation | 12.521 | 12.5 | -0.0204 |
| 32 | 0 | Correlation | 12.276 | 12.274 | -0.0019 |
| 33 | 0 | Correlation | 12.609 | 12.61 | 0.0006 |
| 34 | 0 | Correlation | 12.586 | 12.525 | -0.0605 |

## Test Statistics (mSec)
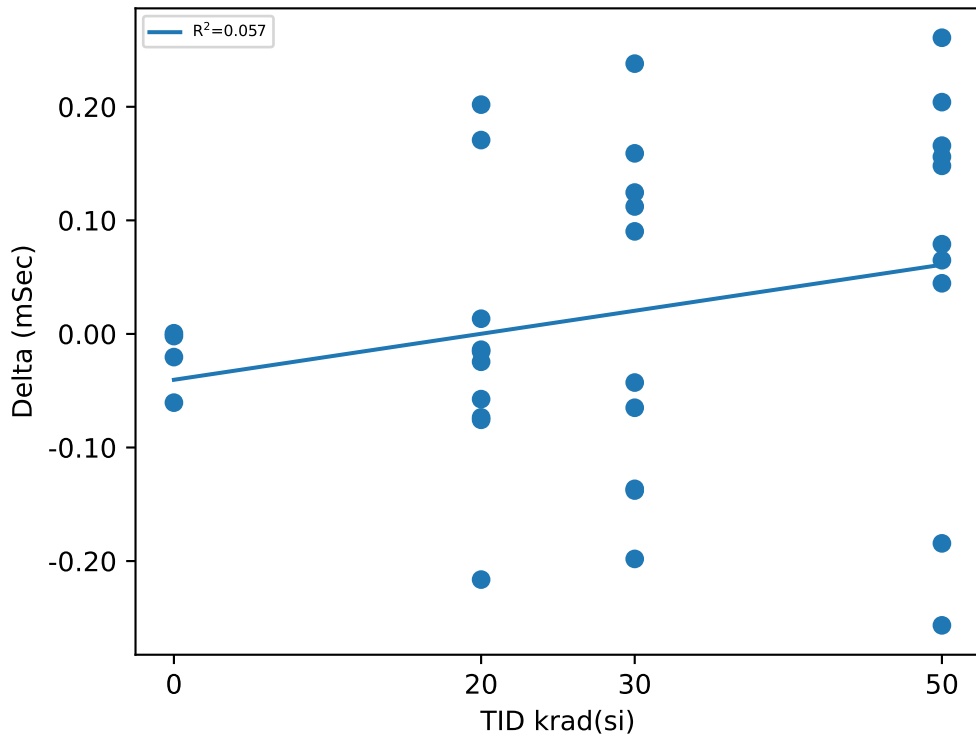
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.276 | 12.498 | 12.609 | 0.15281 | 12.274 | 12.477 | 12.61 | 0.14358 | -0.0605 | -0.02055 | 0.0006 | 0.028232 |
| 20 | 12.255 | 12.465 | 12.694 | 0.15695 | 12.102 | 12.456 | 12.81 | 0.23029 | -0.2163 | -0.00907 | 0.2019 | 0.12087 |
| 30 | 12.326 | 12.464 | 12.573 | 0.084019 | 12.373 | 12.478 | 12.601 | 0.085824 | -0.1981 | 0.01438 | 0.238 | 0.14871 |
| 50 | 12.257 | 12.463 | 12.659 | 0.13605 | 12.313 | 12.531 | 12.779 | 0.16435 | -0.2566 | 0.06822 | 0.2608 | 0.16638 |
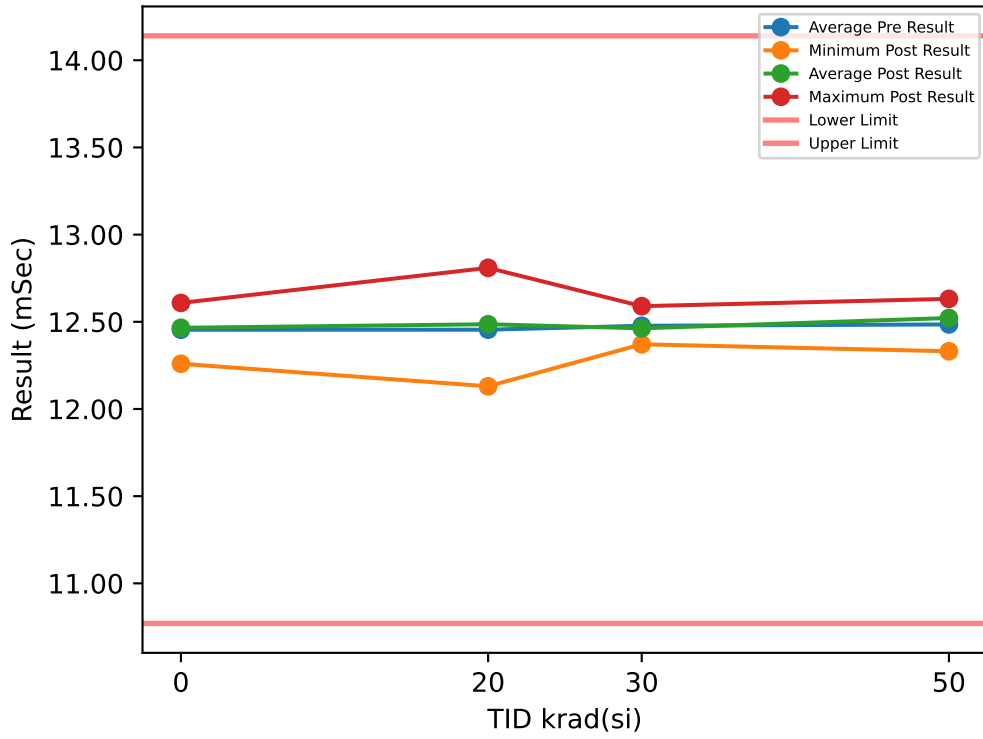
# Device Test: 17.68  DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN4/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.465 | 12.427 | -0.0372 |
| 2 | 20 | Bias | 12.514 | 12.672 | 0.1587 |
| 3 | 20 | Bias | 12.115 | 12.178 | 0.0635 |
| 4 | 20 | Bias | 12.783 | 12.809 | 0.0269 |
| 5 | 20 | Bias | 12.444 | 12.631 | 0.1868 |
| 6 | 20 | Unbiased | 12.322 | 12.13 | -0.1924 |
| 7 | 20 | Unbiased | 12.536 | 12.517 | -0.0197 |
| 8 | 20 | Unbiased | 12.505 | 12.434 | -0.0706 |
| 9 | 20 | Unbiased | 12.555 | 12.736 | 0.1816 |
| 10 | 20 | Unbiased | 12.31 | 12.324 | 0.014 |
| 11 | 30 | Bias | 12.358 | 12.523 | 0.1646 |
| 12 | 30 | Bias | 12.467 | 12.45 | -0.0171 |
| 13 | 30 | Bias | 12.572 | 12.506 | -0.0664 |
| 14 | 30 | Bias | 12.334 | 12.395 | 0.0609 |
| 15 | 30 | Bias | 12.571 | 12.403 | -0.1674 |
| 16 | 30 | Unbiased | 12.599 | 12.376 | -0.2223 |
| 17 | 30 | Unbiased | 12.476 | 12.59 | 0.1142 |
| 18 | 30 | Unbiased | 12.476 | 12.547 | 0.0706 |
| 19 | 30 | Unbiased | 12.4 | 12.466 | 0.0659 |
| 20 | 30 | Unbiased | 12.52 | 12.371 | -0.1491 |
| 21 | 50 | Bias | 12.269 | 12.541 | 0.2726 |
| 22 | 50 | Bias | 12.282 | 12.331 | 0.0491 |
| 23 | 50 | Bias | 12.595 | 12.337 | -0.2581 |
| 24 | 50 | Bias | 12.44 | 12.601 | 0.1608 |
| 25 | 50 | Bias | 12.481 | 12.544 | 0.0634 |
| 26 | 50 | Unbiased | 12.512 | 12.583 | 0.0703 |
| 27 | 50 | Unbiased | 12.51 | 12.436 | -0.0735 |
| 28 | 50 | Unbiased | 12.657 | 12.612 | -0.0457 |
| 29 | 50 | Unbiased | 12.571 | 12.602 | 0.0309 |
| 30 | 50 | Unbiased | 12.533 | 12.632 | 0.0988 |
| 31 | 0 | Correlation | 12.515 | 12.492 | -0.0237 |
| 32 | 0 | Correlation | 12.28 | 12.259 | -0.0207 |
| 33 | 0 | Correlation | 12.613 | 12.608 | -0.0051 |
| 34 | 0 | Correlation | 12.409 | 12.503 | 0.0944 |

## Test Statistics (mSec)
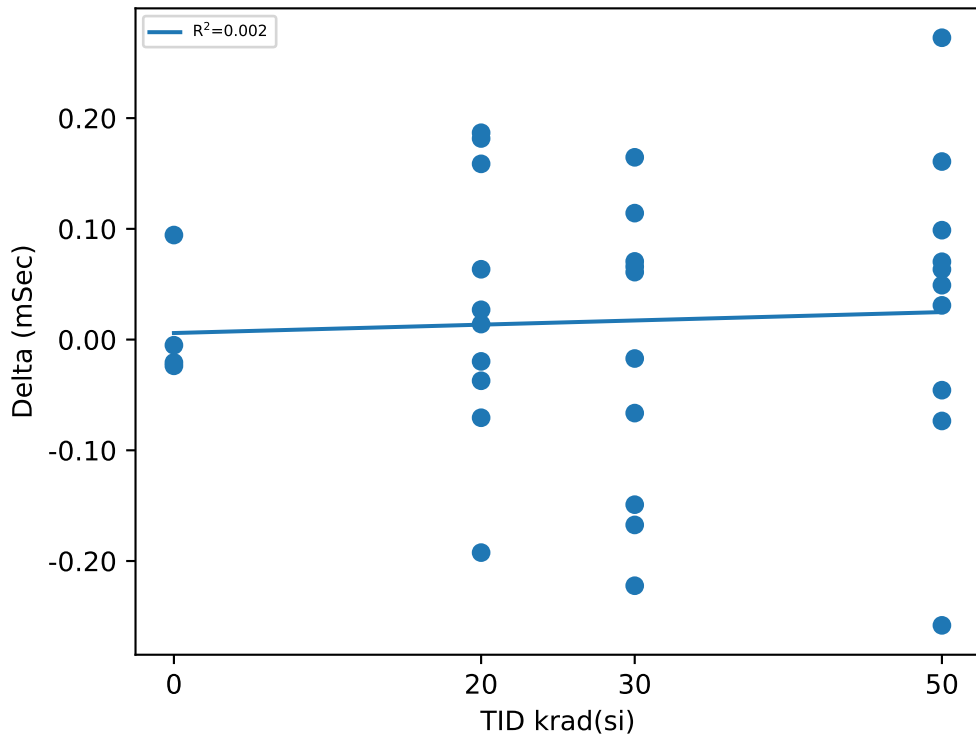
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.28 | 12.454 | 12.613 | 0.1431 | 12.259 | 12.466 | 12.608 | 0.14715 | -0.0237 | 0.011225 | 0.0944 | 0.056046 |
| 20 | 12.115 | 12.455 | 12.783 | 0.1778 | 12.13 | 12.486 | 12.809 | 0.23044 | -0.1924 | 0.03116 | 0.1868 | 0.12114 |
| 30 | 12.334 | 12.477 | 12.599 | 0.09148 | 12.371 | 12.463 | 12.59 | 0.076624 | -0.2223 | -0.01461 | 0.1646 | 0.13141 |
| 50 | 12.269 | 12.485 | 12.657 | 0.12597 | 12.331 | 12.522 | 12.632 | 0.11321 | -0.2581 | 0.03686 | 0.2726 | 0.14251 |
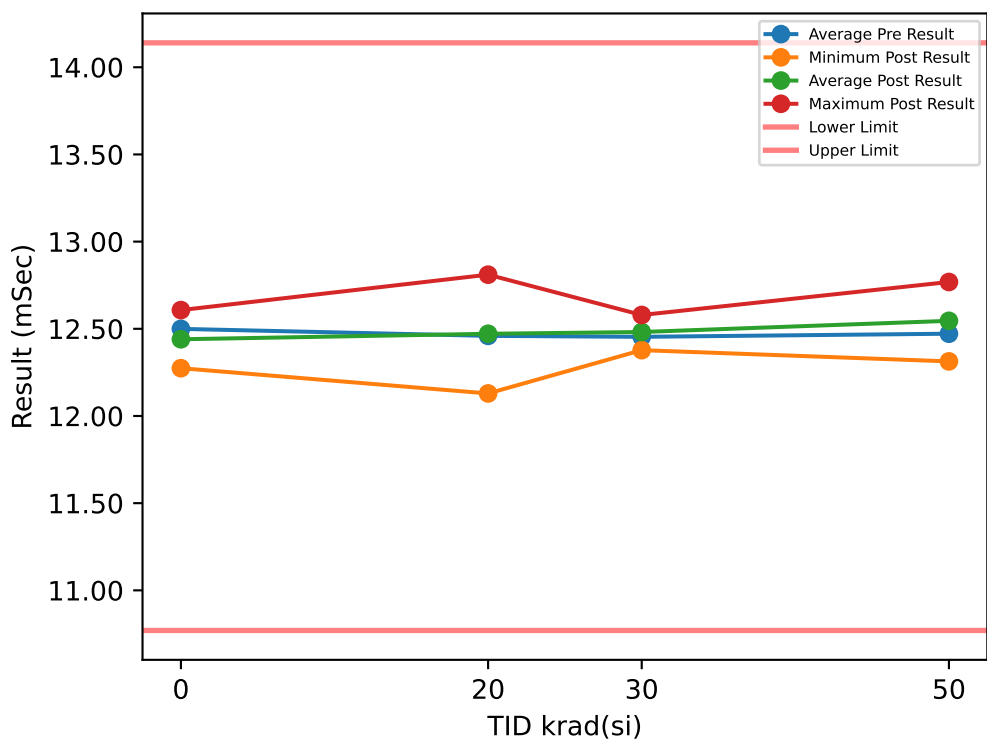
# Device Test: 17.69  DLY_TMR_500KOHM(_DELAY|STEP_DOWN/SEQ_DONE/1.6/3/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.452 | 12.435 | -0.0175 |
| 2 | 20 | Bias | 12.521 | 12.651 | 0.13 |
| 3 | 20 | Bias | 12.255 | 12.18 | -0.0752 |
| 4 | 20 | Bias | 12.595 | 12.81 | 0.2155 |
| 5 | 20 | Bias | 12.632 | 12.614 | -0.0182 |
| 6 | 20 | Unbiased | 12.317 | 12.129 | -0.1878 |
| 7 | 20 | Unbiased | 12.444 | 12.497 | 0.0536 |
| 8 | 20 | Unbiased | 12.509 | 12.453 | -0.0561 |
| 9 | 20 | Unbiased | 12.563 | 12.736 | 0.1731 |
| 10 | 20 | Unbiased | 12.306 | 12.209 | -0.0979 |
| 11 | 30 | Bias | 12.366 | 12.5 | 0.1346 |
| 12 | 30 | Bias | 12.324 | 12.438 | 0.1133 |
| 13 | 30 | Bias | 12.578 | 12.502 | -0.0767 |
| 14 | 30 | Bias | 12.197 | 12.579 | 0.3817 |
| 15 | 30 | Bias | 12.566 | 12.39 | -0.1757 |
| 16 | 30 | Unbiased | 12.586 | 12.57 | -0.0161 |
| 17 | 30 | Unbiased | 12.656 | 12.417 | -0.2388 |
| 18 | 30 | Unbiased | 12.476 | 12.544 | 0.0679 |
| 19 | 30 | Unbiased | 12.268 | 12.498 | 0.2302 |
| 20 | 30 | Unbiased | 12.521 | 12.378 | -0.1435 |
| 21 | 50 | Bias | 12.265 | 12.528 | 0.2629 |
| 22 | 50 | Bias | 12.162 | 12.313 | 0.1515 |
| 23 | 50 | Bias | 12.785 | 12.347 | -0.4387 |
| 24 | 50 | Bias | 12.422 | 12.682 | 0.2602 |
| 25 | 50 | Bias | 12.492 | 12.545 | 0.0529 |
| 26 | 50 | Unbiased | 12.513 | 12.768 | 0.2551 |
| 27 | 50 | Unbiased | 12.484 | 12.425 | -0.0588 |
| 28 | 50 | Unbiased | 12.478 | 12.607 | 0.1284 |
| 29 | 50 | Unbiased | 12.576 | 12.608 | 0.0315 |
| 30 | 50 | Unbiased | 12.54 | 12.634 | 0.0934 |
| 31 | 0 | Correlation | 12.522 | 12.491 | -0.0304 |
| 32 | 0 | Correlation | 12.264 | 12.274 | 0.0104 |
| 33 | 0 | Correlation | 12.618 | 12.607 | -0.0107 |
| 34 | 0 | Correlation | 12.595 | 12.387 | -0.2079 |

## Test Statistics (mSec)
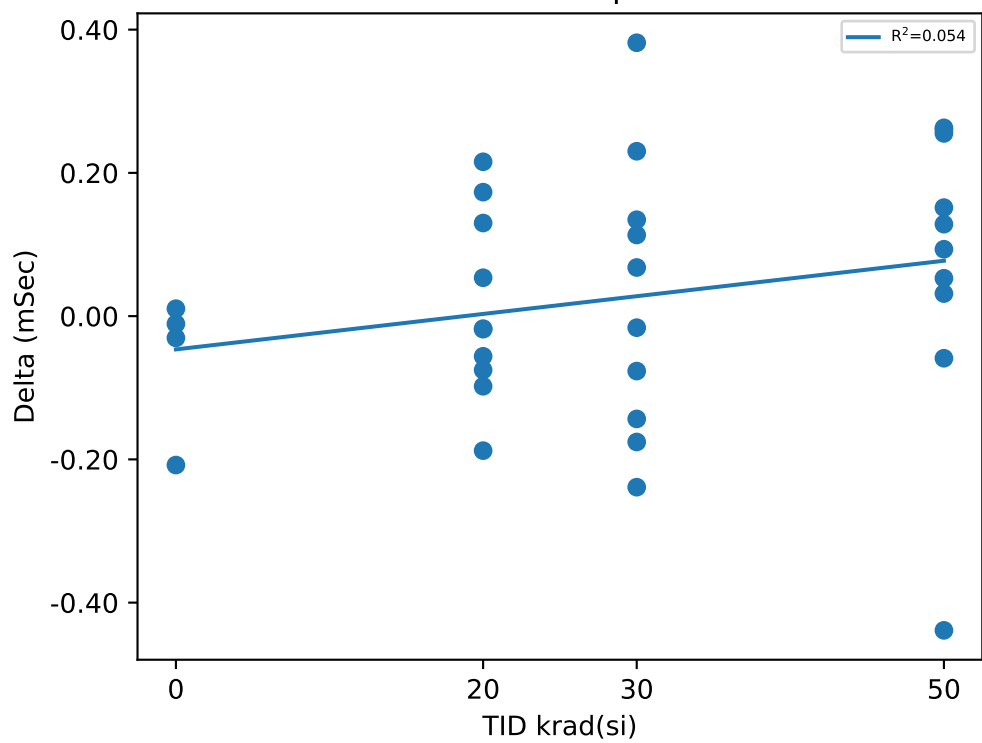
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.264 | 12.5 | 12.618 | 0.16255 | 12.274 | 12.44 | 12.607 | 0.1425 | -0.2079 | -0.05965 | 0.0104 | 0.10023 |
| 20 | 12.255 | 12.46 | 12.632 | 0.12942 | 12.129 | 12.471 | 12.81 | 0.23824 | -0.1878 | 0.01195 | 0.2155 | 0.12869 |
| 30 | 12.197 | 12.454 | 12.656 | 0.15509 | 12.378 | 12.482 | 12.579 | 0.072668 | -0.2388 | 0.02769 | 0.3817 | 0.19471 |
| 50 | 12.162 | 12.472 | 12.785 | 0.16922 | 12.313 | 12.546 | 12.768 | 0.1461 | -0.4387 | 0.07384 | 0.2629 | 0.20956 |

# Device Test: 17.7   TPD_EN(_DELAY|STEP_DOWN/EN1/1.6/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.1305 | 3.2732 | 0.1427 |
| 2 | 20 | Bias | 3.2716 | 3.1287 | -0.1429 |
| 3 | 20 | Bias | 3.2311 | 3.2814 | 0.0503 |
| 4 | 20 | Bias | 3.0768 | 3.2549 | 0.1781 |
| 5 | 20 | Bias | 3.1627 | 3.1679 | 0.0052 |
| 6 | 20 | Unbiased | 3.2689 | 3.29 | 0.0211 |
| 7 | 20 | Unbiased | 3.0931 | 3.4103 | 0.3172 |
| 8 | 20 | Unbiased | 3.3431 | 2.9133 | -0.4298 |
| 9 | 20 | Unbiased | 3.0725 | 3.2975 | 0.225 |
| 10 | 20 | Unbiased | 3.2004 | 3.272 | 0.0716 |
| 11 | 30 | Bias | 3.2113 | 3.2633 | 0.052 |
| 12 | 30 | Bias | 3.1857 | 3.4076 | 0.2219 |
| 13 | 30 | Bias | 3.2443 | 3.3544 | 0.1101 |
| 14 | 30 | Bias | 2.9823 | 3.327 | 0.3447 |
| 15 | 30 | Bias | 3.1686 | 3.2159 | 0.0473 |
| 16 | 30 | Unbiased | 3.4691 | 3.1483 | -0.3208 |
| 17 | 30 | Unbiased | 3.2961 | 3.2053 | -0.0908 |
| 18 | 30 | Unbiased | 3.322 | 3.2085 | -0.1135 |
| 19 | 30 | Unbiased | 3.1258 | 3.1099 | -0.0159 |
| 20 | 30 | Unbiased | 3.2808 | 3.2022 | -0.0786 |
| 21 | 50 | Bias | 3.2468 | 3.3972 | 0.1504 |
| 22 | 50 | Bias | 3.2481 | 3.1543 | -0.0938 |
| 23 | 50 | Bias | 3.2108 | 3.525 | 0.3142 |
| 24 | 50 | Bias | 3.3891 | 3.1085 | -0.2806 |
| 25 | 50 | Bias | 3.0867 | 3.1741 | 0.0874 |
| 26 | 50 | Unbiased | 3.0025 | 2.927 | -0.0755 |
| 27 | 50 | Unbiased | 3.4268 | 3.3181 | -0.1087 |
| 28 | 50 | Unbiased | 3.2108 | 3.0576 | -0.1532 |
| 29 | 50 | Unbiased | 3.1369 | 3.2983 | 0.1614 |
| 30 | 50 | Unbiased | 3.2375 | 3.206 | -0.0315 |
| 31 | 0 | Correlation | 3.2602 | 2.9446 | -0.3156 |
| 32 | 0 | Correlation | 3.2964 | 3.1878 | -0.1086 |
| 33 | 0 | Correlation | 3.3391 | 3.2258 | -0.1133 |
| 34 | 0 | Correlation | 3.0793 | 3.4061 | 0.3268 |

## Test Statistics (uSec)
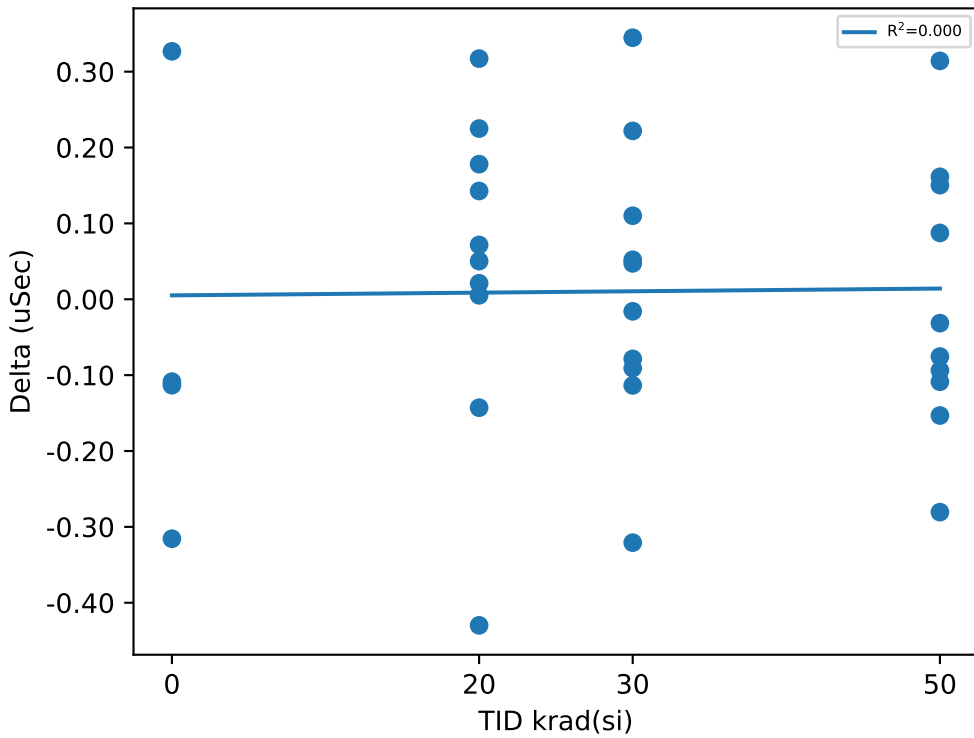
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.0793 | 3.2438 | 3.3391 | 0.11428 | 2.9446 | 3.1911 | 3.4061 | 0.18991 | -0.3156 | -0.052675 | 0.3268 | 0.27076 |
| 20 | 3.0725 | 3.1851 | 3.3431 | 0.093198 | 2.9133 | 3.2289 | 3.4103 | 0.13415 | -0.4298 | 0.04385 | 0.3172 | 0.21013 |
| 30 | 2.9823 | 3.2286 | 3.4691 | 0.12956 | 3.1099 | 3.2442 | 3.4076 | 0.093482 | -0.3208 | 0.01564 | 0.3447 | 0.18653 |
| 50 | 3.0025 | 3.2196 | 3.4268 | 0.12707 | 2.927 | 3.2166 | 3.525 | 0.17363 | -0.2806 | -0.00299 | 0.3142 | 0.17778 |
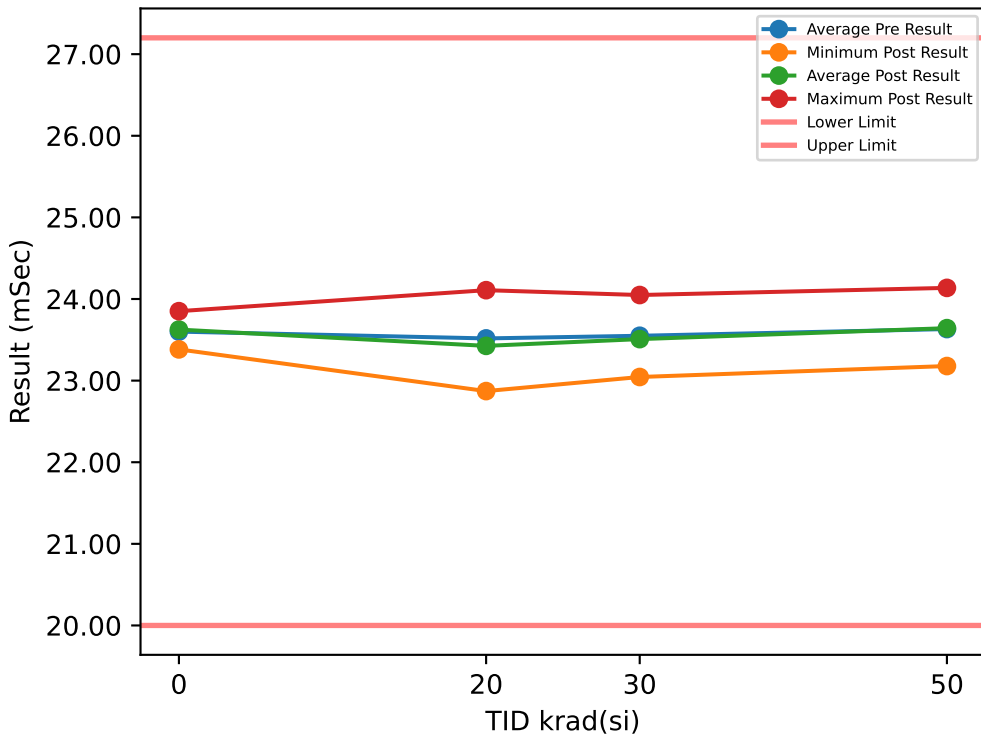
# Device Test: 17.70  DLY_TMR_1MOHM(_DELAY|STEP_UP/EN1/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

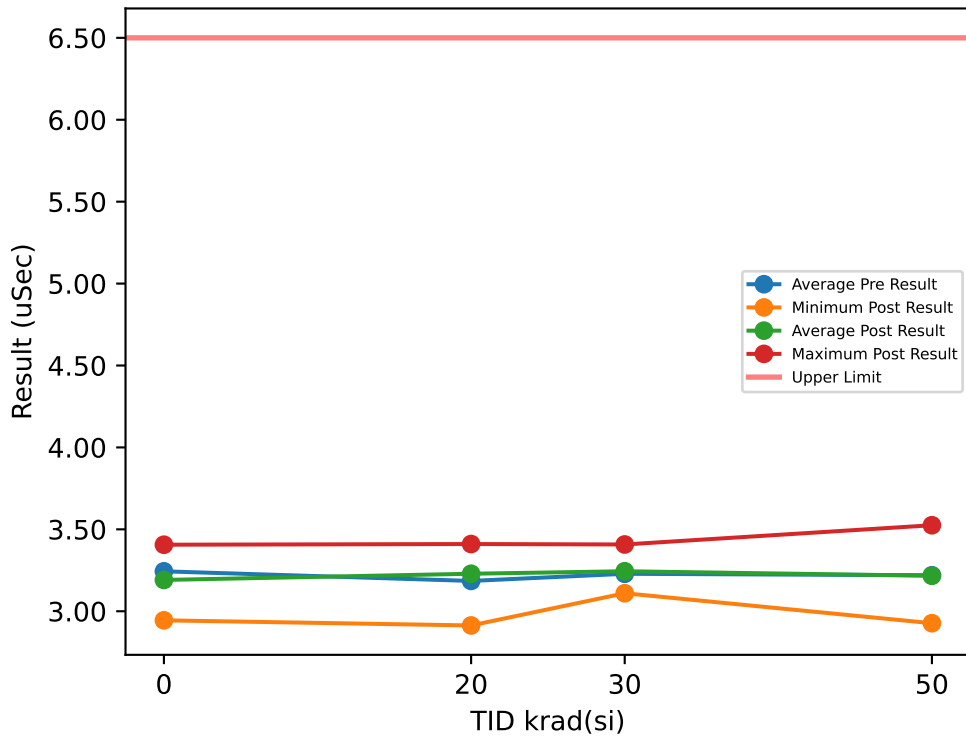| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 23.364 | 23.065 | -0.2988 |
| 2 | 20 | Bias | 23.758 | 23.665 | -0.0933 |
| 3 | 20 | Bias | 23.033 | 22.872 | -0.1617 |
| 4 | 20 | Bias | 24.222 | 24.029 | -0.1928 |
| 5 | 20 | Bias | 23.953 | 23.737 | -0.2154 |
| 6 | 20 | Unbiased | 23.129 | 23.187 | 0.0577 |
| 7 | 20 | Unbiased | 23.348 | 23.409 | 0.0602 |
| 8 | 20 | Unbiased | 23.6 | 23.205 | -0.3945 |
| 9 | 20 | Unbiased | 23.853 | 24.108 | 0.2555 |
| 10 | 20 | Unbiased | 22.911 | 22.982 | 0.0703 |
| 11 | 30 | Bias | 23.545 | 23.383 | -0.1623 |
| 12 | 30 | Bias | 23.626 | 23.526 | -0.1002 |
| 13 | 30 | Bias | 23.7 | 23.677 | -0.0231 |
| 14 | 30 | Bias | 22.939 | 23.514 | 0.5752 |
| 15 | 30 | Bias | 23.774 | 23.044 | -0.7293 |
| 16 | 30 | Unbiased | 23.856 | 23.401 | -0.455 |
| 17 | 30 | Unbiased | 23.717 | 23.594 | -0.1227 |
| 18 | 30 | Unbiased | 23.316 | 24.049 | 0.7326 |
| 19 | 30 | Unbiased | 23.608 | 23.356 | -0.2519 |
| 20 | 30 | Unbiased | 23.415 | 23.542 | 0.1268 |
| 21 | 50 | Bias | 23.274 | 23.373 | 0.0985 |
| 22 | 50 | Bias | 23.369 | 23.428 | 0.0587 |
| 23 | 50 | Bias | 24.183 | 23.178 | -1.0043 |
| 24 | 50 | Bias | 23.247 | 24.136 | 0.8893 |
| 25 | 50 | Bias | 23.824 | 23.978 | 0.1537 |
| 26 | 50 | Unbiased | 23.693 | 23.916 | 0.2229 |
| 27 | 50 | Unbiased | 23.269 | 23.199 | -0.0695 |
| 28 | 50 | Unbiased | 23.935 | 23.615 | -0.3202 |
| 29 | 50 | Unbiased | 24.159 | 23.957 | -0.2018 |
| 30 | 50 | Unbiased | 23.365 | 23.649 | 0.2848 |
| 31 | 0 | Correlation | 23.67 | 23.588 | -0.0821 |
| 32 | 0 | Correlation | 23.086 | 23.383 | 0.297 |
| 33 | 0 | Correlation | 24.087 | 23.851 | -0.2359 |
| 34 | 0 | Correlation | 23.559 | 23.679 | 0.1208 |

## Test Statistics (mSec)
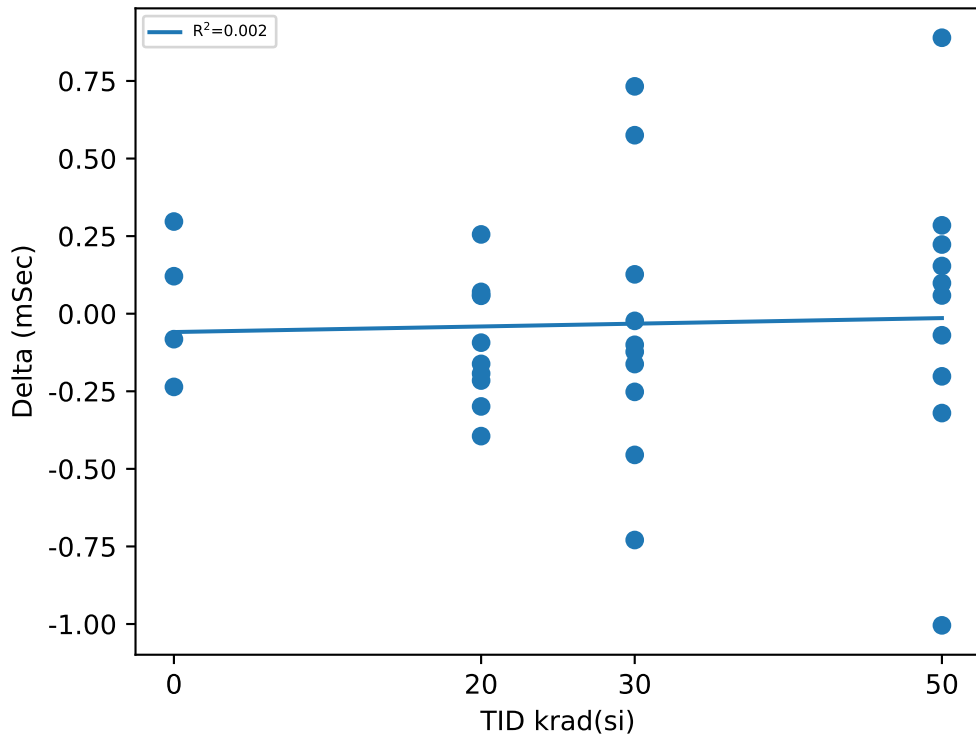
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 23.086 | 23.6 | 24.087 | 0.41156 | 23.383 | 23.625 | 23.851 | 0.19498 | -0.2359 | 0.02495 | 0.297 | 0.23288 |
| 20 | 22.911 | 23.517 | 24.222 | 0.43044 | 22.872 | 23.426 | 24.108 | 0.43773 | -0.3945 | -0.09128 | 0.2555 | 0.19922 |
| 30 | 22.939 | 23.549 | 23.856 | 0.26863 | 23.044 | 23.508 | 24.049 | 0.25716 | -0.7293 | -0.04099 | 0.7326 | 0.43731 |
| 50 | 23.247 | 23.632 | 24.183 | 0.37447 | 23.178 | 23.643 | 24.136 | 0.34337 | -1.0043 | 0.01121 | 0.8893 | 0.48464 |
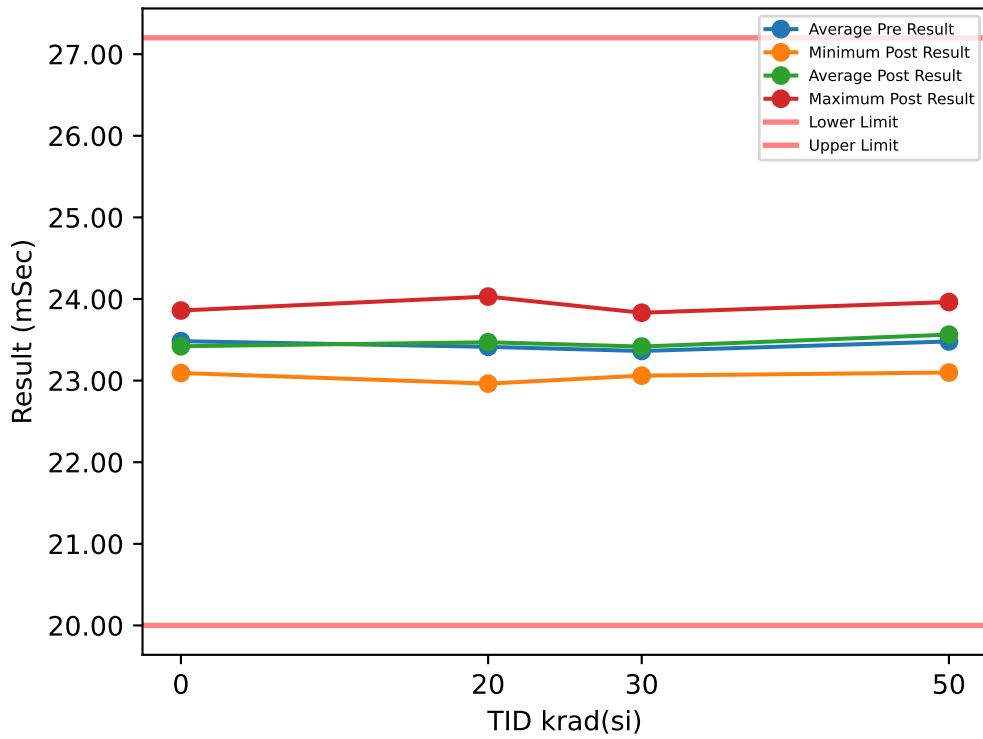
# Device Test: 17.71  DLY_TMR_1MOHM(_DELAY|STEP_UP/EN2/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.076 | 23.372 | 0.2963 |
| 2 | 20 | Bias | 23.766 | 23.701 | -0.0651 |
| 3 | 20 | Bias | 22.787 | 23.208 | 0.421 |
| 4 | 20 | Bias | 24.195 | 24.03 | -0.1656 |
| 5 | 20 | Bias | 23.666 | 23.703 | 0.0376 |
| 6 | 20 | Unbiased | 23.111 | 23.277 | 0.1655 |
| 7 | 20 | Unbiased | 23.404 | 23.373 | -0.0312 |
| 8 | 20 | Unbiased | 23.315 | 23.176 | -0.1385 |
| 9 | 20 | Unbiased | 23.91 | 23.898 | -0.0128 |
| 10 | 20 | Unbiased | 22.908 | 22.963 | 0.0554 |
| 11 | 30 | Bias | 23.222 | 23.374 | 0.1517 |
| 12 | 30 | Bias | 23.317 | 23.399 | 0.0825 |
| 13 | 30 | Bias | 23.472 | 23.376 | -0.0954 |
| 14 | 30 | Bias | 22.908 | 23.507 | 0.5992 |
| 15 | 30 | Bias | 23.439 | 23.061 | -0.3776 |
| 16 | 30 | Unbiased | 23.615 | 23.434 | -0.1813 |
| 17 | 30 | Unbiased | 23.684 | 23.604 | -0.0804 |
| 18 | 30 | Unbiased | 23.303 | 23.832 | 0.5284 |
| 19 | 30 | Unbiased | 23.302 | 23.326 | 0.0245 |
| 20 | 30 | Unbiased | 23.367 | 23.259 | -0.1083 |
| 21 | 50 | Bias | 23.008 | 23.412 | 0.4047 |
| 22 | 50 | Bias | 23.076 | 23.099 | 0.0227 |
| 23 | 50 | Bias | 23.932 | 23.209 | -0.7236 |
| 24 | 50 | Bias | 23.194 | 23.93 | 0.7357 |
| 25 | 50 | Bias | 23.57 | 23.681 | 0.1108 |
| 26 | 50 | Unbiased | 23.723 | 23.898 | 0.1753 |
| 27 | 50 | Unbiased | 23.311 | 23.156 | -0.1548 |
| 28 | 50 | Unbiased | 23.693 | 23.64 | -0.0539 |
| 29 | 50 | Unbiased | 23.871 | 23.963 | 0.0916 |
| 30 | 50 | Unbiased | 23.421 | 23.646 | 0.2251 |
| 31 | 0 | Correlation | 23.369 | 23.343 | -0.0269 |
| 32 | 0 | Correlation | 23.107 | 23.093 | -0.0141 |
| 33 | 0 | Correlation | 23.868 | 23.859 | -0.0094 |
| 34 | 0 | Correlation | 23.589 | 23.389 | -0.1995 |

## Test Statistics (mSec)
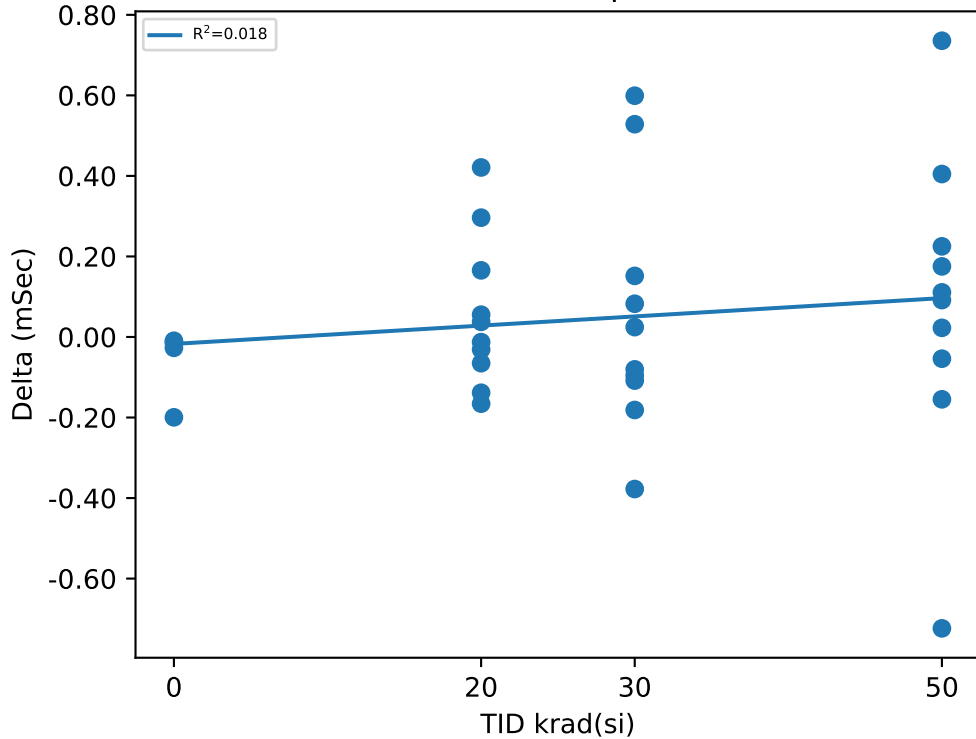
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.107 | 23.483 | 23.868 | 0.32338 | 23.093 | 23.421 | 23.859 | 0.31961 | -0.1995 | -0.062475 | -0.0094 | 0.091649 |
| 20 | 22.787 | 23.414 | 24.195 | 0.46062 | 22.963 | 23.47 | 24.03 | 0.34513 | -0.1656 | 0.05626 | 0.421 | 0.18775 |
| 30 | 22.908 | 23.363 | 23.684 | 0.21611 | 23.061 | 23.417 | 23.832 | 0.20518 | -0.3776 | 0.05433 | 0.5992 | 0.30585 |
| 50 | 23.008 | 23.48 | 23.932 | 0.32823 | 23.099 | 23.563 | 23.963 | 0.32704 | -0.7236 | 0.08336 | 0.7357 | 0.37839 |
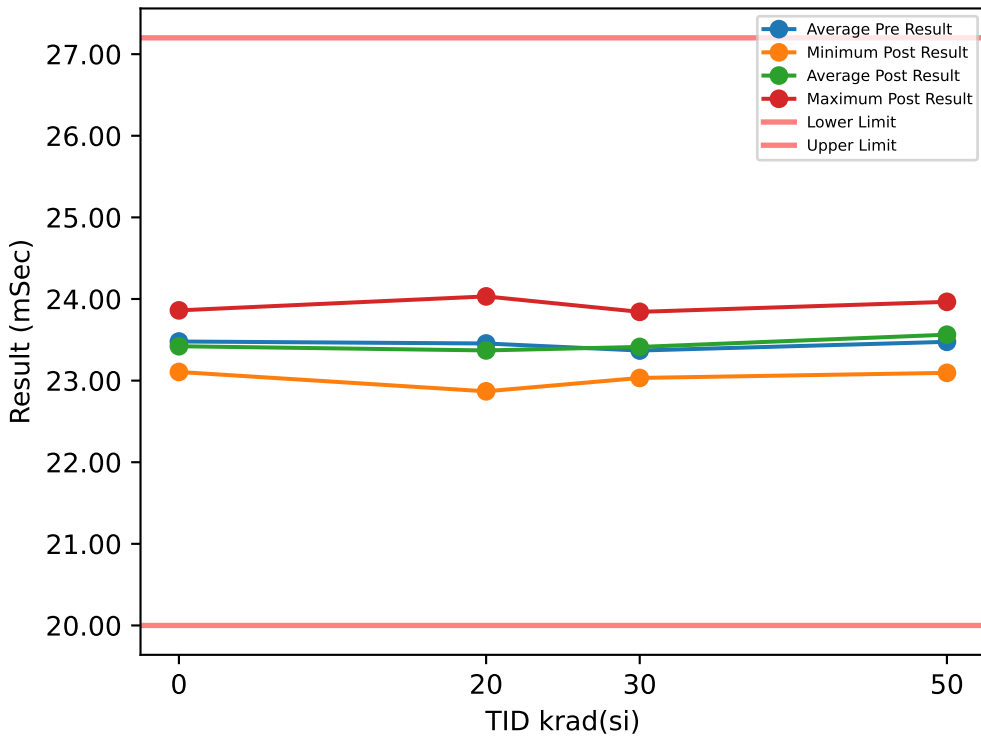
# Device Test: 17.72  DLY_TMR_1MOHM(_DELAY|STEP_UP/EN3/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.108 | 23.053 | -0.055 |
| 2 | 20 | Bias | 23.767 | 23.695 | -0.0718 |
| 3 | 20 | Bias | 23.11 | 22.869 | -0.2407 |
| 4 | 20 | Bias | 24.198 | 24.032 | -0.166 |
| 5 | 20 | Bias | 23.694 | 23.704 | 0.0104 |
| 6 | 20 | Unbiased | 23.117 | 22.926 | -0.1912 |
| 7 | 20 | Unbiased | 23.405 | 23.368 | -0.0376 |
| 8 | 20 | Unbiased | 23.333 | 23.201 | -0.1315 |
| 9 | 20 | Unbiased | 23.892 | 23.884 | -0.0087 |
| 10 | 20 | Unbiased | 22.926 | 22.967 | 0.0411 |
| 11 | 30 | Bias | 23.237 | 23.383 | 0.146 |
| 12 | 30 | Bias | 23.298 | 23.365 | 0.0675 |
| 13 | 30 | Bias | 23.451 | 23.375 | -0.0755 |
| 14 | 30 | Bias | 22.931 | 23.479 | 0.5477 |
| 15 | 30 | Bias | 23.469 | 23.033 | -0.4364 |
| 16 | 30 | Unbiased | 23.617 | 23.466 | -0.1507 |
| 17 | 30 | Unbiased | 23.708 | 23.614 | -0.0937 |
| 18 | 30 | Unbiased | 23.297 | 23.843 | 0.5456 |
| 19 | 30 | Unbiased | 23.287 | 23.314 | 0.0272 |
| 20 | 30 | Unbiased | 23.391 | 23.255 | -0.1358 |
| 21 | 50 | Bias | 23.019 | 23.391 | 0.3721 |
| 22 | 50 | Bias | 23.055 | 23.095 | 0.0405 |
| 23 | 50 | Bias | 23.939 | 23.213 | -0.726 |
| 24 | 50 | Bias | 23.178 | 23.926 | 0.7481 |
| 25 | 50 | Bias | 23.573 | 23.683 | 0.1096 |
| 26 | 50 | Unbiased | 23.71 | 23.9 | 0.1904 |
| 27 | 50 | Unbiased | 23.298 | 23.171 | -0.127 |
| 28 | 50 | Unbiased | 23.709 | 23.633 | -0.0761 |
| 29 | 50 | Unbiased | 23.863 | 23.965 | 0.1024 |
| 30 | 50 | Unbiased | 23.409 | 23.649 | 0.2399 |
| 31 | 0 | Correlation | 23.353 | 23.316 | -0.0366 |
| 32 | 0 | Correlation | 23.105 | 23.106 | 0.0014 |
| 33 | 0 | Correlation | 23.87 | 23.861 | -0.0094 |
| 34 | 0 | Correlation | 23.59 | 23.402 | -0.1882 |

## Test Statistics (mSec)
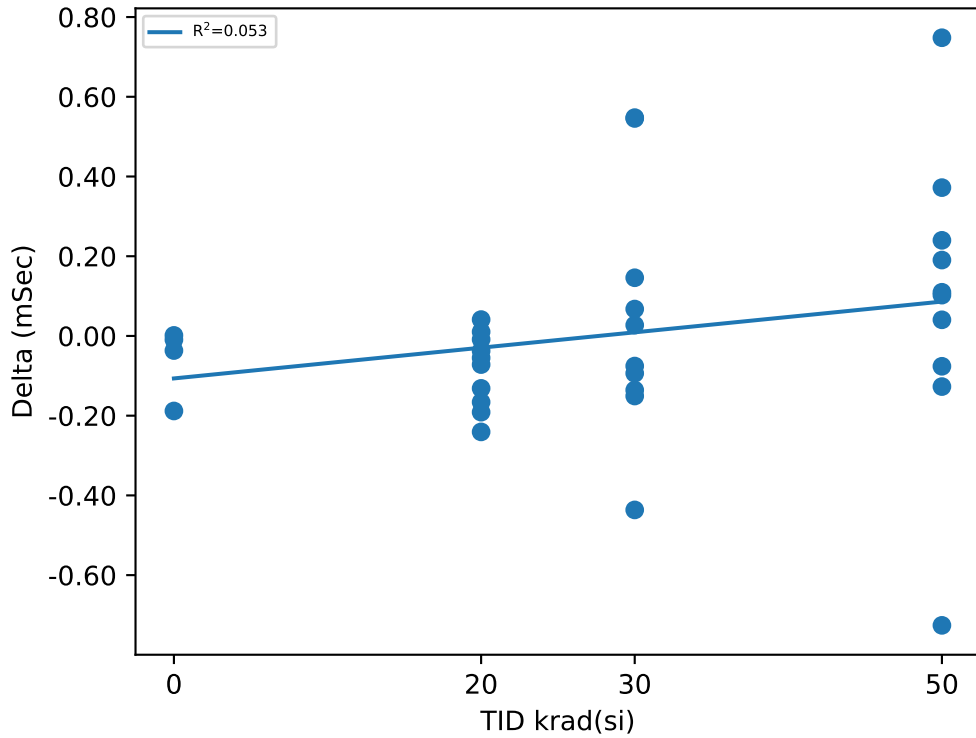
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.105 | 23.479 | 23.87 | 0.32728 | 23.106 | 23.421 | 23.861 | 0.31826 | -0.1882 | -0.0582 | 0.0014 | 0.088129 |
| 20 | 22.926 | 23.455 | 24.198 | 0.41479 | 22.869 | 23.37 | 24.032 | 0.42931 | -0.2407 | -0.0851 | 0.0411 | 0.093327 |
| 30 | 22.931 | 23.369 | 23.708 | 0.21595 | 23.033 | 23.413 | 23.843 | 0.21499 | -0.4364 | 0.04419 | 0.5477 | 0.30747 |
| 50 | 23.019 | 23.475 | 23.939 | 0.33226 | 23.095 | 23.563 | 23.965 | 0.32636 | -0.726 | 0.08739 | 0.7481 | 0.3784 |

# Device Test: 17.73  DLY_TMR_1MOHM(_DELAY|STEP_UP/EN4/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.11 | 23.373 | 0.2632 |
| 2 | 20 | Bias | 23.785 | 23.693 | -0.0918 |
| 3 | 20 | Bias | 22.756 | 22.87 | 0.1143 |
| 4 | 20 | Bias | 23.992 | 23.996 | 0.0038 |
| 5 | 20 | Bias | 23.676 | 23.67 | -0.006 |
| 6 | 20 | Unbiased | 23.121 | 22.932 | -0.189 |
| 7 | 20 | Unbiased | 23.408 | 23.375 | -0.0325 |
| 8 | 20 | Unbiased | 23.329 | 23.201 | -0.1282 |
| 9 | 20 | Unbiased | 23.887 | 23.88 | -0.008 |
| 10 | 20 | Unbiased | 22.922 | 22.965 | 0.0428 |
| 11 | 30 | Bias | 23.211 | 23.374 | 0.1629 |
| 12 | 30 | Bias | 23.316 | 23.406 | 0.0903 |
| 13 | 30 | Bias | 23.459 | 23.38 | -0.0789 |
| 14 | 30 | Bias | 22.92 | 23.483 | 0.5636 |
| 15 | 30 | Bias | 23.46 | 23.055 | -0.4042 |
| 16 | 30 | Unbiased | 23.608 | 23.466 | -0.1427 |
| 17 | 30 | Unbiased | 23.677 | 23.625 | -0.0516 |
| 18 | 30 | Unbiased | 23.306 | 23.844 | 0.5384 |
| 19 | 30 | Unbiased | 23.323 | 23.325 | 0.0026 |
| 20 | 30 | Unbiased | 23.394 | 23.261 | -0.1334 |
| 21 | 50 | Bias | 23 | 23.414 | 0.4144 |
| 22 | 50 | Bias | 23.05 | 23.133 | 0.0834 |
| 23 | 50 | Bias | 23.937 | 23.208 | -0.7286 |
| 24 | 50 | Bias | 23.211 | 23.931 | 0.7195 |
| 25 | 50 | Bias | 23.569 | 23.669 | 0.1002 |
| 26 | 50 | Unbiased | 23.744 | 23.897 | 0.1531 |
| 27 | 50 | Unbiased | 23.31 | 23.15 | -0.1597 |
| 28 | 50 | Unbiased | 23.71 | 23.609 | -0.1003 |
| 29 | 50 | Unbiased | 23.872 | 23.965 | 0.0925 |
| 30 | 50 | Unbiased | 23.422 | 23.621 | 0.1981 |
| 31 | 0 | Correlation | 23.371 | 23.346 | -0.0246 |
| 32 | 0 | Correlation | 23.083 | 23.104 | 0.0208 |
| 33 | 0 | Correlation | 23.868 | 23.859 | -0.0089 |
| 34 | 0 | Correlation | 23.595 | 23.375 | -0.2201 |

## Test Statistics (mSec)
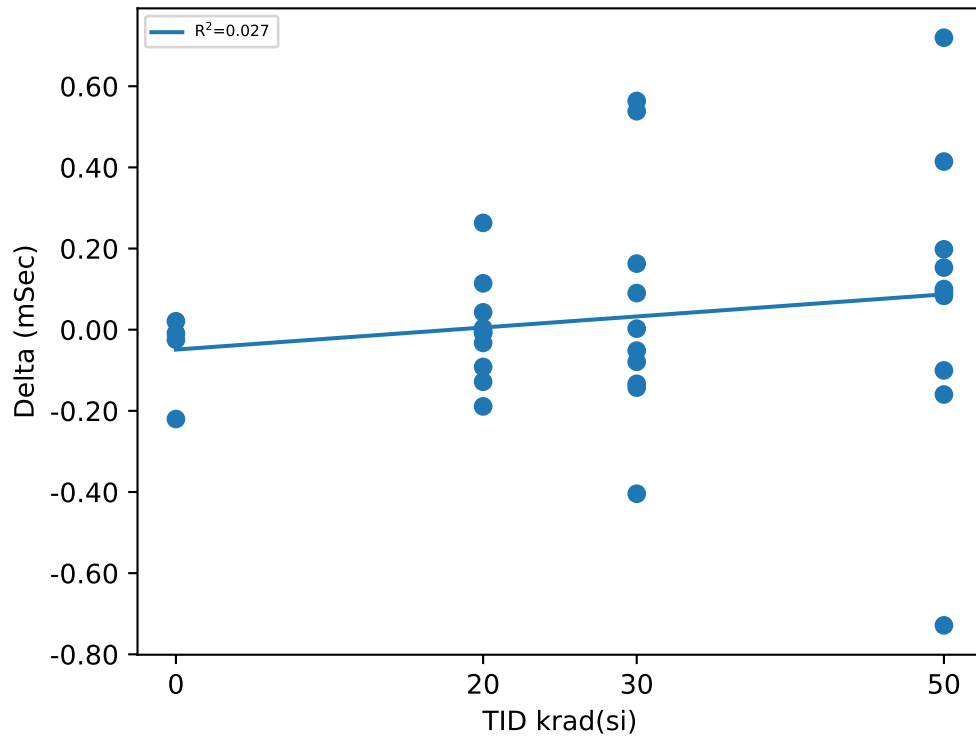
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.083 | 23.479 | 23.868 | 0.33322 | 23.104 | 23.421 | 23.859 | 0.3163 | -0.2201 | -0.0582 | 0.0208 | 0.10956 |
| 20 | 22.756 | 23.399 | 23.992 | 0.4245 | 22.87 | 23.396 | 23.996 | 0.4045 | -0.189 | -0.00314 | 0.2632 | 0.12729 |
| 30 | 22.92 | 23.367 | 23.677 | 0.21204 | 23.055 | 23.422 | 23.844 | 0.21067 | -0.4042 | 0.0547 | 0.5636 | 0.30235 |
| 50 | 23 | 23.483 | 23.937 | 0.33549 | 23.133 | 23.56 | 23.965 | 0.32111 | -0.7286 | 0.07726 | 0.7195 | 0.37777 |
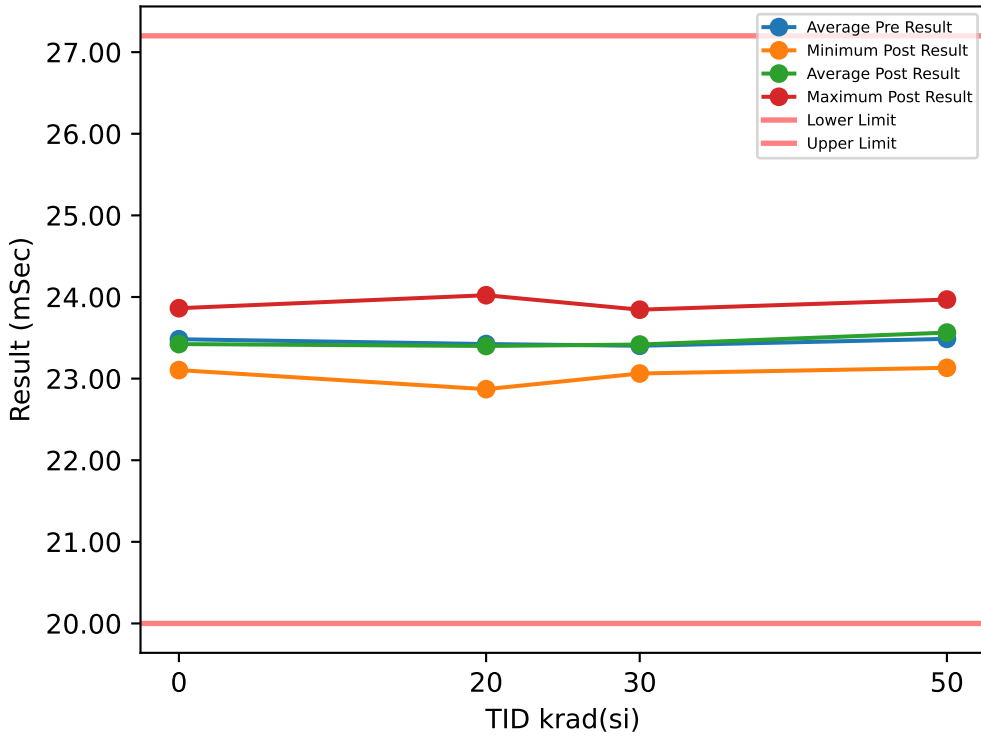
# Device Test: 17.74  DLY_TMR_1MOHM(_DELAY|STEP_UP/SEQ_DONE/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

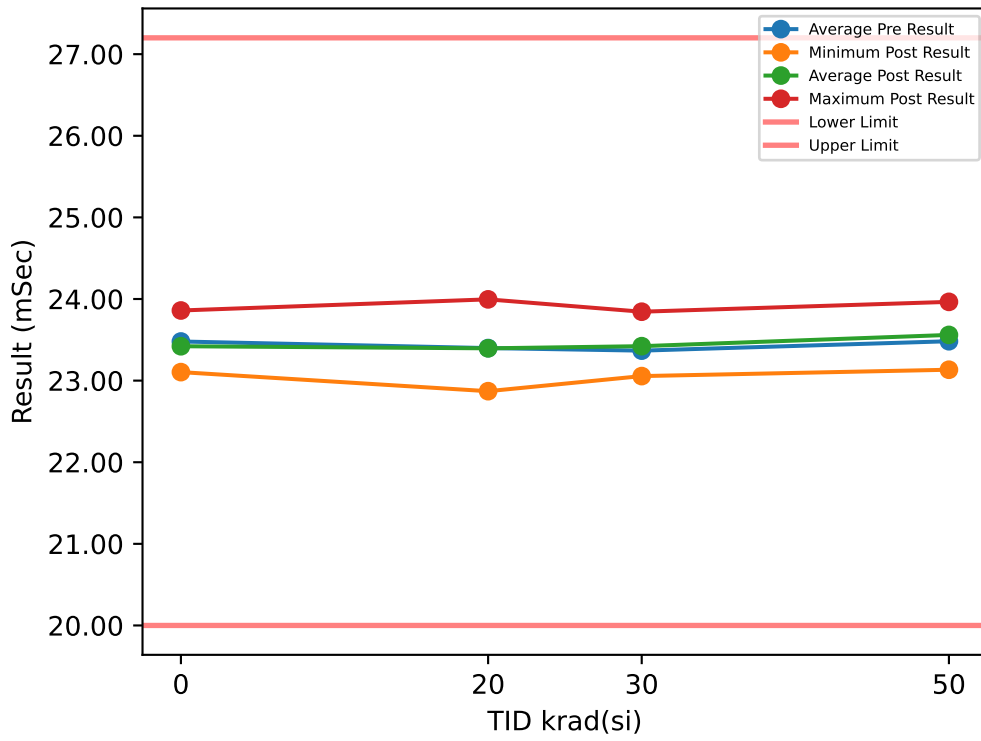| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.114 | 23.055 | -0.059 |
| 2 | 20 | Bias | 23.784 | 23.687 | -0.0971 |
| 3 | 20 | Bias | 22.764 | 22.87 | 0.1067 |
| 4 | 20 | Bias | 24.196 | 24.022 | -0.1745 |
| 5 | 20 | Bias | 23.694 | 23.697 | 0.0028 |
| 6 | 20 | Unbiased | 23.107 | 22.931 | -0.1762 |
| 7 | 20 | Unbiased | 23.402 | 23.369 | -0.0329 |
| 8 | 20 | Unbiased | 23.334 | 23.193 | -0.1407 |
| 9 | 20 | Unbiased | 23.909 | 23.882 | -0.0277 |
| 10 | 20 | Unbiased | 22.931 | 23.292 | 0.3609 |
| 11 | 30 | Bias | 23.225 | 23.383 | 0.158 |
| 12 | 30 | Bias | 23.289 | 23.377 | 0.0878 |
| 13 | 30 | Bias | 23.474 | 23.377 | -0.0971 |
| 14 | 30 | Bias | 23.258 | 23.508 | 0.2502 |
| 15 | 30 | Bias | 23.471 | 23.063 | -0.4078 |
| 16 | 30 | Unbiased | 23.604 | 23.447 | -0.1572 |
| 17 | 30 | Unbiased | 23.716 | 23.628 | -0.0883 |
| 18 | 30 | Unbiased | 23.296 | 23.845 | 0.5483 |
| 19 | 30 | Unbiased | 23.317 | 23.304 | -0.0126 |
| 20 | 30 | Unbiased | 23.375 | 23.245 | -0.1301 |
| 21 | 50 | Bias | 23.028 | 23.418 | 0.39 |
| 22 | 50 | Bias | 23.08 | 23.133 | 0.0523 |
| 23 | 50 | Bias | 23.939 | 23.214 | -0.7256 |
| 24 | 50 | Bias | 23.198 | 23.927 | 0.7292 |
| 25 | 50 | Bias | 23.574 | 23.672 | 0.0981 |
| 26 | 50 | Unbiased | 23.737 | 23.9 | 0.1632 |
| 27 | 50 | Unbiased | 23.314 | 23.159 | -0.1545 |
| 28 | 50 | Unbiased | 23.71 | 23.625 | -0.0854 |
| 29 | 50 | Unbiased | 23.874 | 23.969 | 0.0952 |
| 30 | 50 | Unbiased | 23.418 | 23.624 | 0.2064 |
| 31 | 0 | Correlation | 23.353 | 23.325 | -0.0279 |
| 32 | 0 | Correlation | 23.113 | 23.105 | -0.008 |
| 33 | 0 | Correlation | 23.869 | 23.863 | -0.0067 |
| 34 | 0 | Correlation | 23.597 | 23.401 | -0.1957 |

## Test Statistics (mSec)
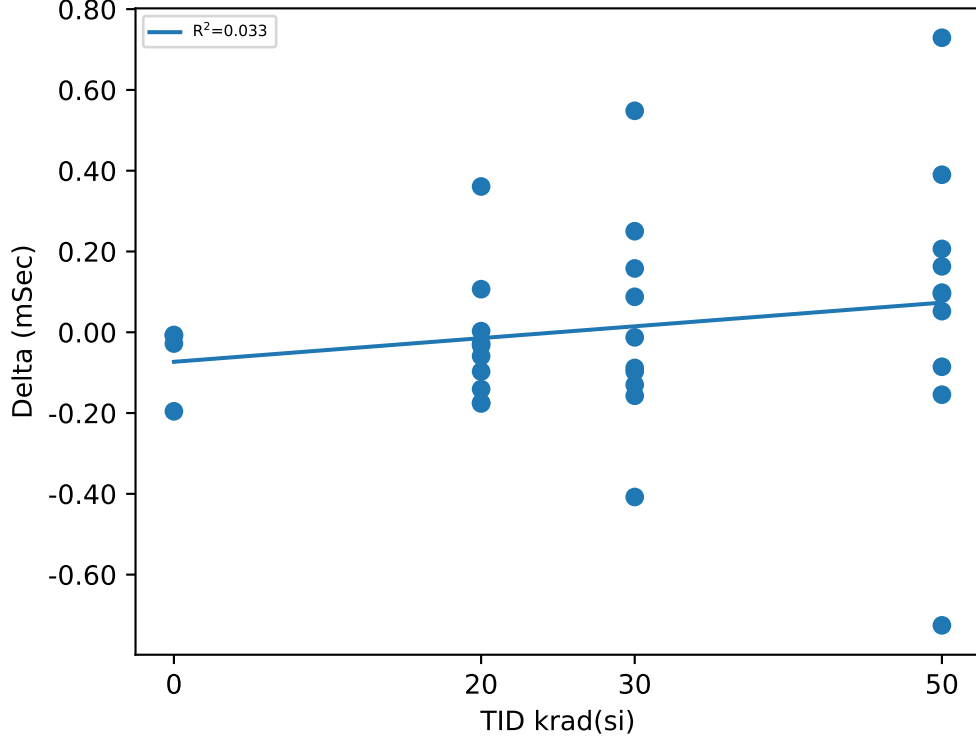
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.113 | 23.483 | 23.869 | 0.32476 | 23.105 | 23.423 | 23.863 | 0.31877 | -0.1957 | -0.059575 | -0.0067 | 0.091267 |
| 20 | 22.764 | 23.424 | 24.196 | 0.46169 | 22.87 | 23.4 | 24.022 | 0.4033 | -0.1762 | -0.02377 | 0.3609 | 0.16057 |
| 30 | 23.225 | 23.402 | 23.716 | 0.16104 | 23.063 | 23.418 | 23.845 | 0.21302 | -0.4078 | 0.01512 | 0.5483 | 0.26224 |
| 50 | 23.028 | 23.487 | 23.939 | 0.32802 | 23.133 | 23.564 | 23.969 | 0.32001 | -0.7256 | 0.07689 | 0.7292 | 0.3761 |
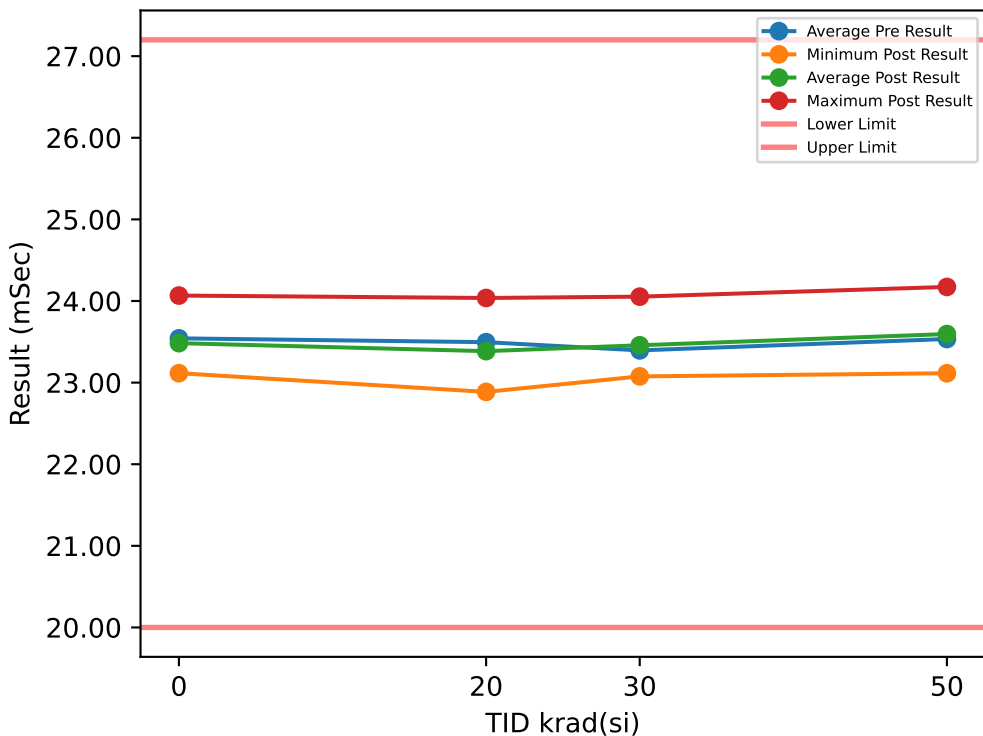
# Device Test: 17.75  DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN1/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.1 | 23.072 | -0.0275 |
| 2 | 20 | Bias | 23.989 | 23.722 | -0.2668 |
| 3 | 20 | Bias | 22.805 | 22.886 | 0.0813 |
| 4 | 20 | Bias | 24.213 | 24.037 | -0.1763 |
| 5 | 20 | Bias | 23.899 | 23.692 | -0.2072 |
| 6 | 20 | Unbiased | 23.131 | 22.954 | -0.1776 |
| 7 | 20 | Unbiased | 23.425 | 23.391 | -0.0337 |
| 8 | 20 | Unbiased | 23.346 | 23.219 | -0.1278 |
| 9 | 20 | Unbiased | 24.125 | 23.901 | -0.2248 |
| 10 | 20 | Unbiased | 22.921 | 22.981 | 0.06 |
| 11 | 30 | Bias | 23.254 | 23.391 | 0.137 |
| 12 | 30 | Bias | 23.336 | 23.42 | 0.0842 |
| 13 | 30 | Bias | 23.484 | 23.394 | -0.09 |
| 14 | 30 | Bias | 22.953 | 23.495 | 0.5426 |
| 15 | 30 | Bias | 23.486 | 23.076 | -0.4095 |
| 16 | 30 | Unbiased | 23.632 | 23.481 | -0.1504 |
| 17 | 30 | Unbiased | 23.731 | 23.642 | -0.0887 |
| 18 | 30 | Unbiased | 23.321 | 24.053 | 0.732 |
| 19 | 30 | Unbiased | 23.341 | 23.344 | 0.003 |
| 20 | 30 | Unbiased | 23.412 | 23.278 | -0.1343 |
| 21 | 50 | Bias | 23.041 | 23.401 | 0.3601 |
| 22 | 50 | Bias | 23.1 | 23.115 | 0.015 |
| 23 | 50 | Bias | 23.92 | 23.231 | -0.6888 |
| 24 | 50 | Bias | 23.205 | 23.935 | 0.73 |
| 25 | 50 | Bias | 23.588 | 23.67 | 0.0825 |
| 26 | 50 | Unbiased | 23.959 | 23.916 | -0.0431 |
| 27 | 50 | Unbiased | 23.318 | 23.187 | -0.1306 |
| 28 | 50 | Unbiased | 23.695 | 23.659 | -0.0363 |
| 29 | 50 | Unbiased | 24.077 | 24.172 | 0.095 |
| 30 | 50 | Unbiased | 23.44 | 23.664 | 0.2245 |
| 31 | 0 | Correlation | 23.388 | 23.361 | -0.0275 |
| 32 | 0 | Correlation | 23.128 | 23.115 | -0.0123 |
| 33 | 0 | Correlation | 24.073 | 24.067 | -0.0067 |
| 34 | 0 | Correlation | 23.58 | 23.391 | -0.1892 |

## Test Statistics (mSec)
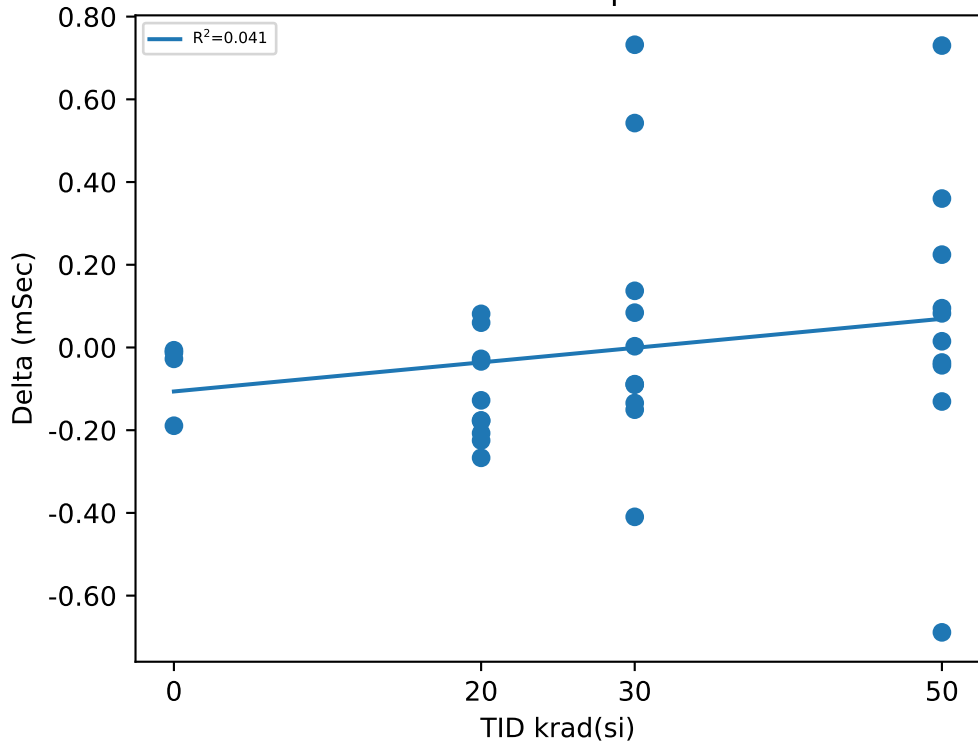
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.128 | 23.542 | 24.073 | 0.39966 | 23.115 | 23.483 | 24.067 | 0.40798 | -0.1892 | -0.058925 | -0.0067 | 0.087293 |
| 20 | 22.805 | 23.496 | 24.213 | 0.52078 | 22.886 | 23.385 | 24.037 | 0.42449 | -0.2668 | -0.11004 | 0.0813 | 0.1223 |
| 30 | 22.953 | 23.395 | 23.731 | 0.21417 | 23.076 | 23.458 | 24.053 | 0.25637 | -0.4095 | 0.06259 | 0.732 | 0.34014 |
| 50 | 23.041 | 23.534 | 24.077 | 0.37249 | 23.115 | 23.595 | 24.172 | 0.35483 | -0.6888 | 0.06083 | 0.73 | 0.36312 |
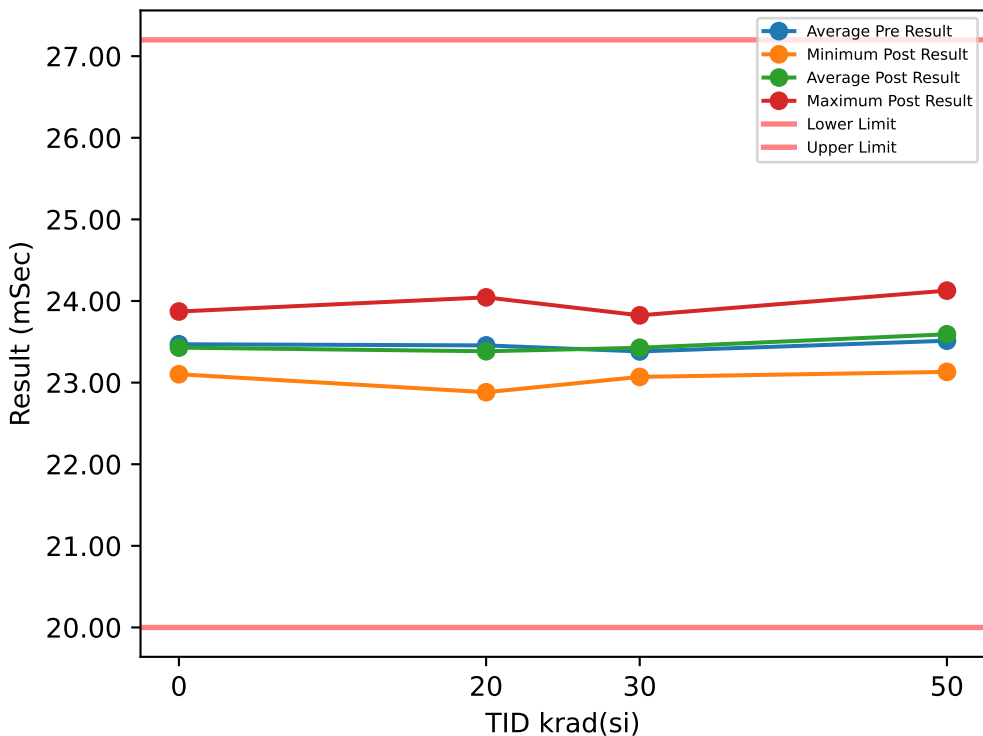
# Device Test: 17.76  DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN2/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.118 | 23.068 | -0.0493 |
| 2 | 20 | Bias | 23.984 | 23.712 | -0.2723 |
| 3 | 20 | Bias | 22.801 | 22.882 | 0.0808 |
| 4 | 20 | Bias | 24.001 | 24.044 | 0.0438 |
| 5 | 20 | Bias | 23.704 | 23.718 | 0.0138 |
| 6 | 20 | Unbiased | 23.134 | 22.945 | -0.1887 |
| 7 | 20 | Unbiased | 23.412 | 23.38 | -0.0321 |
| 8 | 20 | Unbiased | 23.346 | 23.214 | -0.1318 |
| 9 | 20 | Unbiased | 24.12 | 23.898 | -0.2213 |
| 10 | 20 | Unbiased | 22.941 | 22.977 | 0.0362 |
| 11 | 30 | Bias | 23.244 | 23.393 | 0.149 |
| 12 | 30 | Bias | 23.328 | 23.41 | 0.0823 |
| 13 | 30 | Bias | 23.483 | 23.384 | -0.0996 |
| 14 | 30 | Bias | 22.948 | 23.518 | 0.5699 |
| 15 | 30 | Bias | 23.442 | 23.07 | -0.3716 |
| 16 | 30 | Unbiased | 23.628 | 23.448 | -0.1802 |
| 17 | 30 | Unbiased | 23.726 | 23.634 | -0.0923 |
| 18 | 30 | Unbiased | 23.316 | 23.824 | 0.508 |
| 19 | 30 | Unbiased | 23.326 | 23.315 | -0.0113 |
| 20 | 30 | Unbiased | 23.378 | 23.273 | -0.1059 |
| 21 | 50 | Bias | 23.04 | 23.408 | 0.3678 |
| 22 | 50 | Bias | 23.095 | 23.132 | 0.0369 |
| 23 | 50 | Bias | 23.927 | 23.223 | -0.7044 |
| 24 | 50 | Bias | 23.224 | 24.127 | 0.9037 |
| 25 | 50 | Bias | 23.558 | 23.695 | 0.1374 |
| 26 | 50 | Unbiased | 23.749 | 23.88 | 0.1305 |
| 27 | 50 | Unbiased | 23.324 | 23.163 | -0.1613 |
| 28 | 50 | Unbiased | 23.715 | 23.657 | -0.0579 |
| 29 | 50 | Unbiased | 24.072 | 23.974 | -0.0982 |
| 30 | 50 | Unbiased | 23.428 | 23.662 | 0.234 |
| 31 | 0 | Correlation | 23.363 | 23.328 | -0.0353 |
| 32 | 0 | Correlation | 23.083 | 23.103 | 0.0195 |
| 33 | 0 | Correlation | 23.86 | 23.871 | 0.0117 |
| 34 | 0 | Correlation | 23.574 | 23.412 | -0.1615 |

## Test Statistics (mSec)
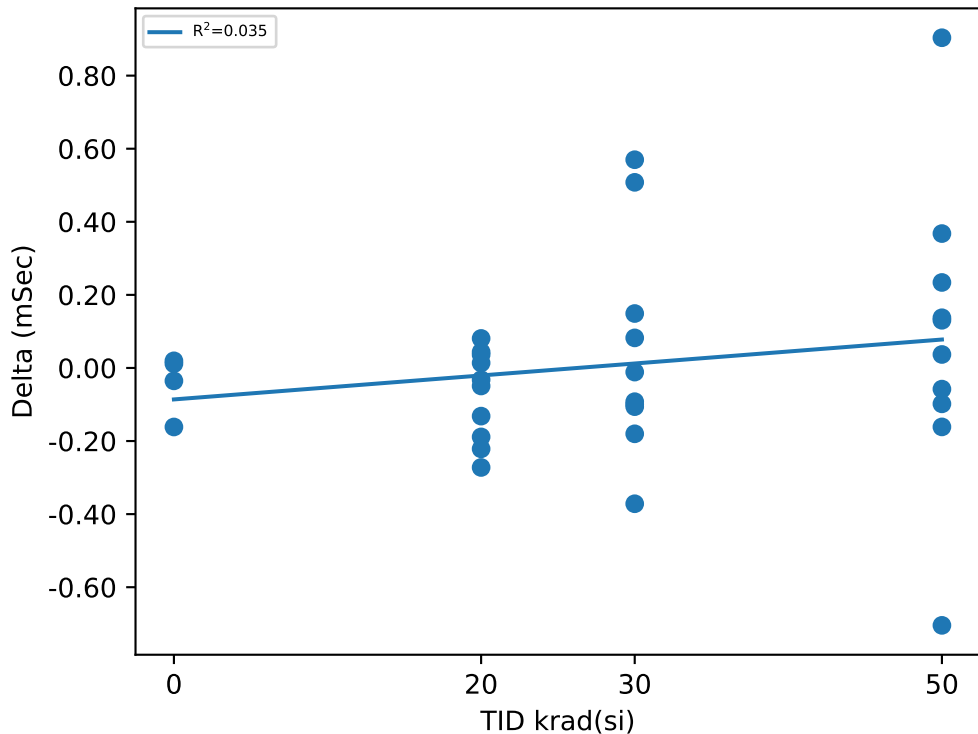
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.083 | 23.47 | 23.86 | 0.32829 | 23.103 | 23.429 | 23.871 | 0.32268 | -0.1615 | -0.0414 | 0.0195 | 0.083645 |
| 20 | 22.801 | 23.456 | 24.12 | 0.47187 | 22.882 | 23.384 | 24.044 | 0.42926 | -0.2723 | -0.07209 | 0.0808 | 0.12362 |
| 30 | 22.948 | 23.382 | 23.726 | 0.21361 | 23.07 | 23.427 | 23.824 | 0.20448 | -0.3716 | 0.04483 | 0.5699 | 0.29666 |
| 50 | 23.04 | 23.513 | 24.072 | 0.35088 | 23.132 | 23.592 | 24.127 | 0.34972 | -0.7044 | 0.07885 | 0.9037 | 0.41055 |
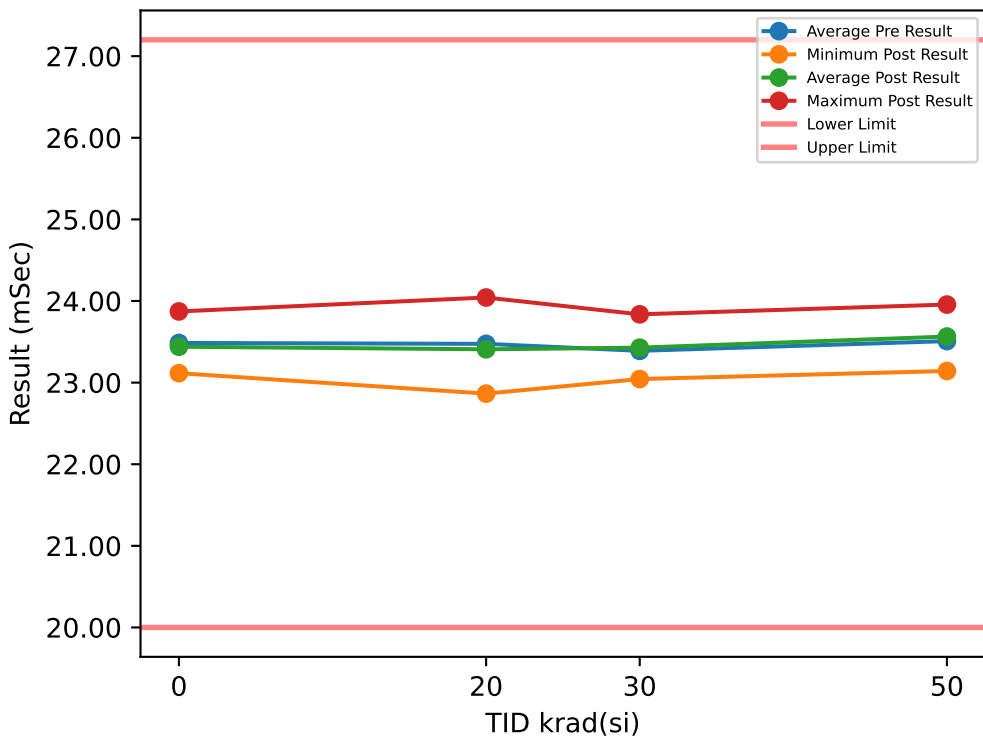
# Device Test: 17.77  DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN3/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 20 | Bias | 23.124 | 23.047 | -0.077 |
| 2 | 20 | Bias | 23.983 | 23.716 | -0.2664 |
| 3 | 20 | Bias | 22.799 | 22.865 | 0.066 |
| 4 | 20 | Bias | 24.202 | 24.043 | -0.1589 |
| 5 | 20 | Bias | 23.705 | 23.718 | 0.0134 |
| 6 | 20 | Unbiased | 23.133 | 23.213 | 0.0804 |
| 7 | 20 | Unbiased | 23.418 | 23.388 | -0.0304 |
| 8 | 20 | Unbiased | 23.327 | 23.207 | -0.1199 |
| 9 | 20 | Unbiased | 24.118 | 23.908 | -0.2104 |
| 10 | 20 | Unbiased | 22.942 | 22.977 | 0.0347 |
| 11 | 30 | Bias | 23.247 | 23.361 | 0.1147 |
| 12 | 30 | Bias | 23.329 | 23.414 | 0.085 |
| 13 | 30 | Bias | 23.483 | 23.388 | -0.0953 |
| 14 | 30 | Bias | 22.946 | 23.515 | 0.569 |
| 15 | 30 | Bias | 23.48 | 23.044 | -0.4364 |
| 16 | 30 | Unbiased | 23.621 | 23.477 | -0.1434 |
| 17 | 30 | Unbiased | 23.726 | 23.639 | -0.0878 |
| 18 | 30 | Unbiased | 23.316 | 23.837 | 0.5202 |
| 19 | 30 | Unbiased | 23.335 | 23.34 | 0.0052 |
| 20 | 30 | Unbiased | 23.408 | 23.267 | -0.1419 |
| 21 | 50 | Bias | 23.018 | 23.424 | 0.4059 |
| 22 | 50 | Bias | 23.091 | 23.142 | 0.0515 |
| 23 | 50 | Bias | 23.946 | 23.226 | -0.7194 |
| 24 | 50 | Bias | 23.202 | 23.926 | 0.7241 |
| 25 | 50 | Bias | 23.555 | 23.671 | 0.1164 |
| 26 | 50 | Unbiased | 23.953 | 23.879 | -0.0738 |
| 27 | 50 | Unbiased | 23.319 | 23.15 | -0.1684 |
| 28 | 50 | Unbiased | 23.704 | 23.607 | -0.0974 |
| 29 | 50 | Unbiased | 23.864 | 23.956 | 0.0927 |
| 30 | 50 | Unbiased | 23.436 | 23.661 | 0.2253 |
| 31 | 0 | Correlation | 23.383 | 23.359 | -0.0242 |
| 32 | 0 | Correlation | 23.107 | 23.116 | 0.0086 |
| 33 | 0 | Correlation | 23.847 | 23.872 | 0.0255 |
| 34 | 0 | Correlation | 23.607 | 23.412 | -0.1951 |

## Test Statistics (mSec)
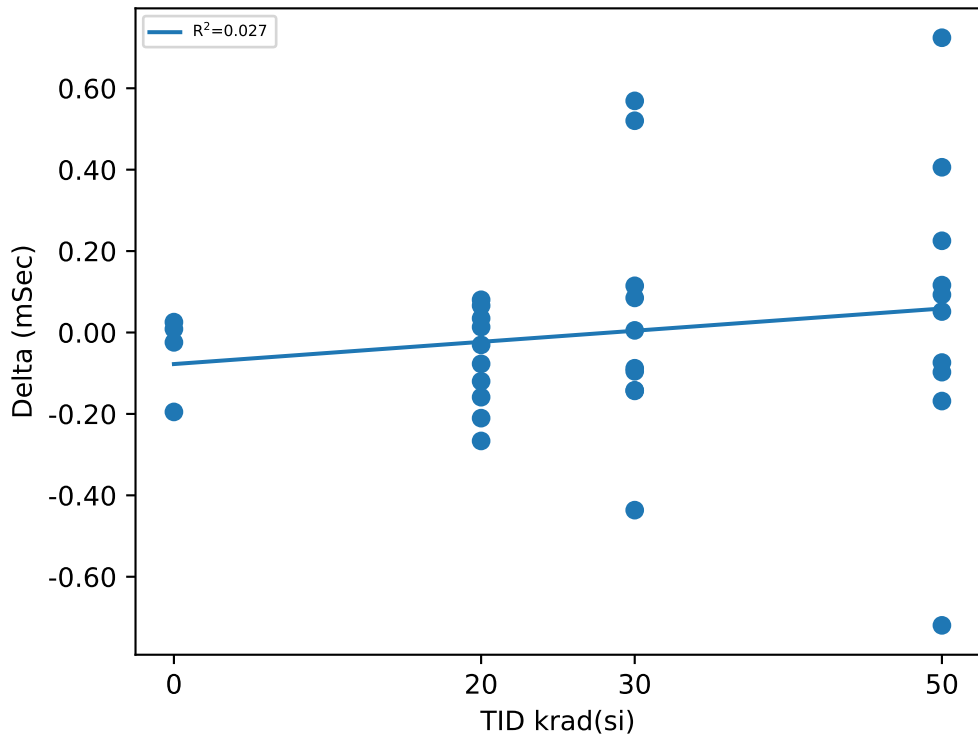
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 23.107 | 23.486 | 23.847 | 0.31551 | 23.116 | 23.44 | 23.872 | 0.31572 | -0.1951 | -0.0463 | 0.0255 | 0.10132 |
| 20 | 22.799 | 23.475 | 24.202 | 0.50105 | 22.865 | 23.408 | 24.043 | 0.41289 | -0.2664 | -0.06685 | 0.0804 | 0.11983 |
| 30 | 22.946 | 23.389 | 23.726 | 0.21422 | 23.044 | 23.428 | 23.837 | 0.21315 | -0.4364 | 0.03893 | 0.569 | 0.30688 |
| 50 | 23.018 | 23.509 | 23.953 | 0.35048 | 23.142 | 23.564 | 23.956 | 0.31436 | -0.7194 | 0.05569 | 0.7241 | 0.37925 |
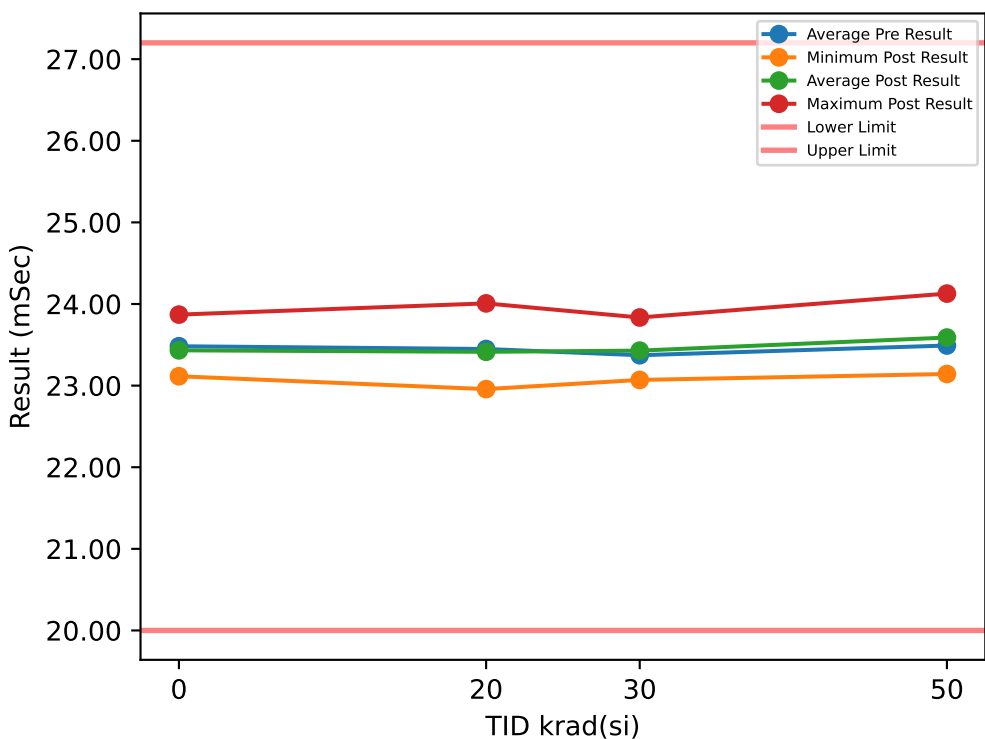
# Device Test: 17.78  DLY_TMR_1MOHM(_DELAY|STEP_DOWN/EN4/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.123 | 23.068 | -0.0548 |
| 2 | 20 | Bias | 23.78 | 23.714 | -0.0665 |
| 3 | 20 | Bias | 22.798 | 23.211 | 0.4136 |
| 4 | 20 | Bias | 24.206 | 24.008 | -0.1988 |
| 5 | 20 | Bias | 23.679 | 23.716 | 0.0374 |
| 6 | 20 | Unbiased | 23.112 | 22.957 | -0.1549 |
| 7 | 20 | Unbiased | 23.39 | 23.378 | -0.012 |
| 8 | 20 | Unbiased | 23.345 | 23.212 | -0.1321 |
| 9 | 20 | Unbiased | 24.115 | 23.904 | -0.2114 |
| 10 | 20 | Unbiased | 22.94 | 22.975 | 0.035 |
| 11 | 30 | Bias | 23.246 | 23.386 | 0.1401 |
| 12 | 30 | Bias | 23.318 | 23.397 | 0.0794 |
| 13 | 30 | Bias | 23.461 | 23.368 | -0.0937 |
| 14 | 30 | Bias | 22.913 | 23.511 | 0.5978 |
| 15 | 30 | Bias | 23.447 | 23.07 | -0.3768 |
| 16 | 30 | Unbiased | 23.604 | 23.477 | -0.1266 |
| 17 | 30 | Unbiased | 23.711 | 23.636 | -0.0747 |
| 18 | 30 | Unbiased | 23.315 | 23.835 | 0.5197 |
| 19 | 30 | Unbiased | 23.312 | 23.336 | 0.0234 |
| 20 | 30 | Unbiased | 23.398 | 23.272 | -0.1253 |
| 21 | 50 | Bias | 23.031 | 23.425 | 0.3937 |
| 22 | 50 | Bias | 23.072 | 23.142 | 0.0707 |
| 23 | 50 | Bias | 23.93 | 23.224 | -0.7058 |
| 24 | 50 | Bias | 23.221 | 24.128 | 0.906 |
| 25 | 50 | Bias | 23.583 | 23.692 | 0.1092 |
| 26 | 50 | Unbiased | 23.762 | 23.867 | 0.1048 |
| 27 | 50 | Unbiased | 23.323 | 23.181 | -0.1423 |
| 28 | 50 | Unbiased | 23.719 | 23.619 | -0.1006 |
| 29 | 50 | Unbiased | 23.865 | 23.965 | 0.1004 |
| 30 | 50 | Unbiased | 23.407 | 23.647 | 0.2407 |
| 31 | 0 | Correlation | 23.344 | 23.348 | 0.0047 |
| 32 | 0 | Correlation | 23.122 | 23.115 | -0.0075 |
| 33 | 0 | Correlation | 23.86 | 23.87 | 0.0104 |
| 34 | 0 | Correlation | 23.604 | 23.396 | -0.2082 |

## Test Statistics (mSec)
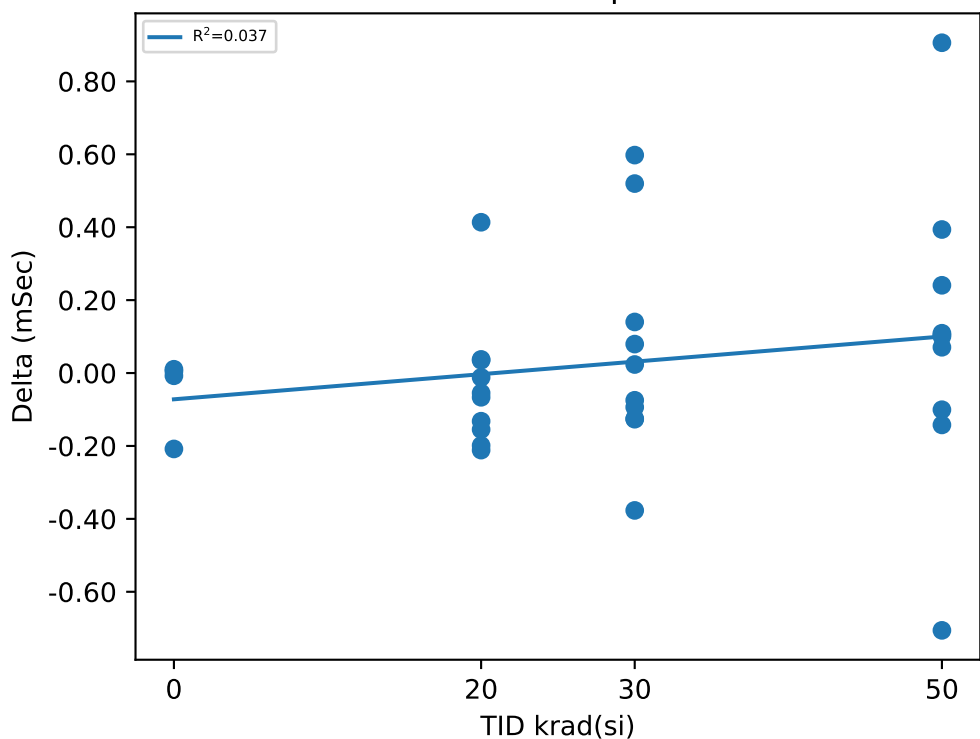
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.122 | 23.482 | 23.86 | 0.31951 | 23.115 | 23.432 | 23.87 | 0.31673 | -0.2082 | -0.05015 | 0.0104 | 0.10563 |
| 20 | 22.798 | 23.449 | 24.206 | 0.48276 | 22.957 | 23.414 | 24.008 | 0.39122 | -0.2114 | -0.03445 | 0.4136 | 0.18106 |
| 30 | 22.913 | 23.372 | 23.711 | 0.21578 | 23.07 | 23.429 | 23.835 | 0.20695 | -0.3768 | 0.05633 | 0.5978 | 0.30005 |
| 50 | 23.031 | 23.491 | 23.93 | 0.3268 | 23.142 | 23.589 | 24.128 | 0.34154 | -0.7058 | 0.09768 | 0.906 | 0.40891 |
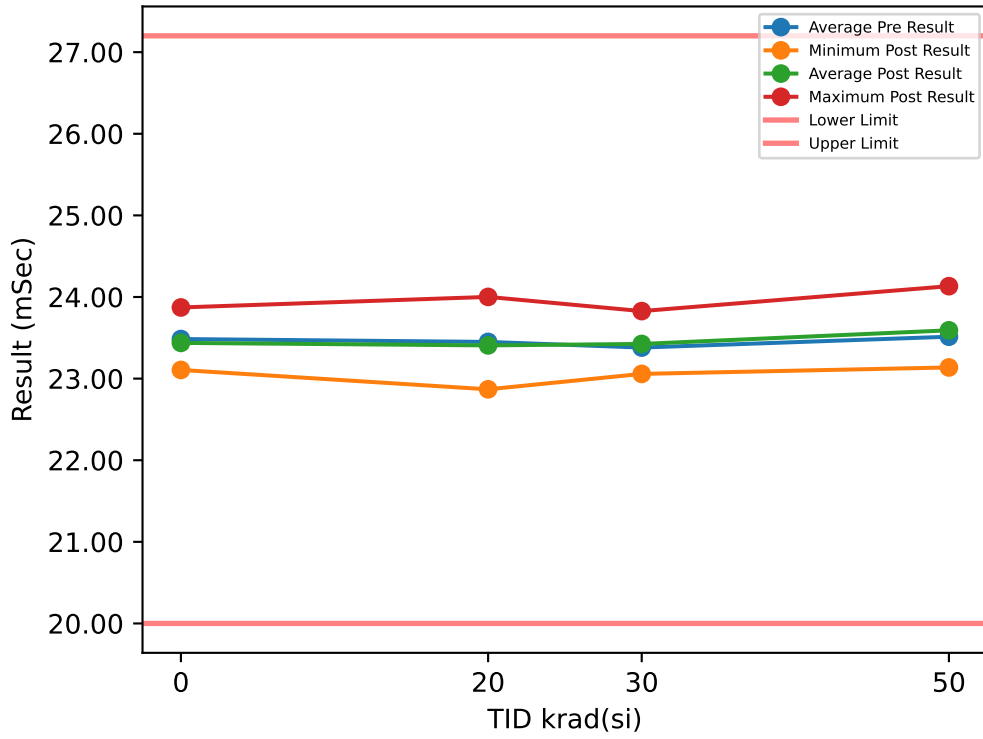
# Device Test: 17.79 DLY_TMR_1MOHM(_DELAY|STEP_DOWN/SEQ_DONE/1.6/3/1.18M/0/0/@DLY_TMR_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.0, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.123 | 23.066 | -0.0578 |
| 2 | 20 | Bias | 23.983 | 23.682 | -0.3014 |
| 3 | 20 | Bias | 22.797 | 22.869 | 0.0716 |
| 4 | 20 | Bias | 24.207 | 24.001 | -0.2064 |
| 5 | 20 | Bias | 23.699 | 23.716 | 0.0172 |
| 6 | 20 | Unbiased | 23.107 | 22.96 | -0.1463 |
| 7 | 20 | Unbiased | 23.419 | 23.386 | -0.0331 |
| 8 | 20 | Unbiased | 23.312 | 23.214 | -0.0984 |
| 9 | 20 | Unbiased | 23.907 | 23.877 | -0.0293 |
| 10 | 20 | Unbiased | 22.942 | 23.299 | 0.3574 |
| 11 | 30 | Bias | 23.204 | 23.36 | 0.1559 |
| 12 | 30 | Bias | 23.33 | 23.416 | 0.0856 |
| 13 | 30 | Bias | 23.487 | 23.39 | -0.0969 |
| 14 | 30 | Bias | 22.925 | 23.518 | 0.593 |
| 15 | 30 | Bias | 23.468 | 23.058 | -0.4106 |
| 16 | 30 | Unbiased | 23.627 | 23.459 | -0.1678 |
| 17 | 30 | Unbiased | 23.721 | 23.638 | -0.0834 |
| 18 | 30 | Unbiased | 23.295 | 23.827 | 0.532 |
| 19 | 30 | Unbiased | 23.339 | 23.341 | 0.0021 |
| 20 | 30 | Unbiased | 23.407 | 23.241 | -0.1664 |
| 21 | 50 | Bias | 23.014 | 23.419 | 0.4052 |
| 22 | 50 | Bias | 23.098 | 23.137 | 0.0388 |
| 23 | 50 | Bias | 23.934 | 23.221 | -0.7135 |
| 24 | 50 | Bias | 23.223 | 24.133 | 0.9094 |
| 25 | 50 | Bias | 23.583 | 23.665 | 0.0823 |
| 26 | 50 | Unbiased | 23.954 | 23.907 | -0.0472 |
| 27 | 50 | Unbiased | 23.303 | 23.168 | -0.1355 |
| 28 | 50 | Unbiased | 23.722 | 23.643 | -0.0788 |
| 29 | 50 | Unbiased | 23.869 | 23.978 | 0.1094 |
| 30 | 50 | Unbiased | 23.434 | 23.649 | 0.2141 |
| 31 | 0 | Correlation | 23.383 | 23.359 | -0.0235 |
| 32 | 0 | Correlation | 23.122 | 23.106 | -0.0163 |
| 33 | 0 | Correlation | 23.849 | 23.872 | 0.023 |
| 34 | 0 | Correlation | 23.586 | 23.413 | -0.1731 |

## Test Statistics (mSec)
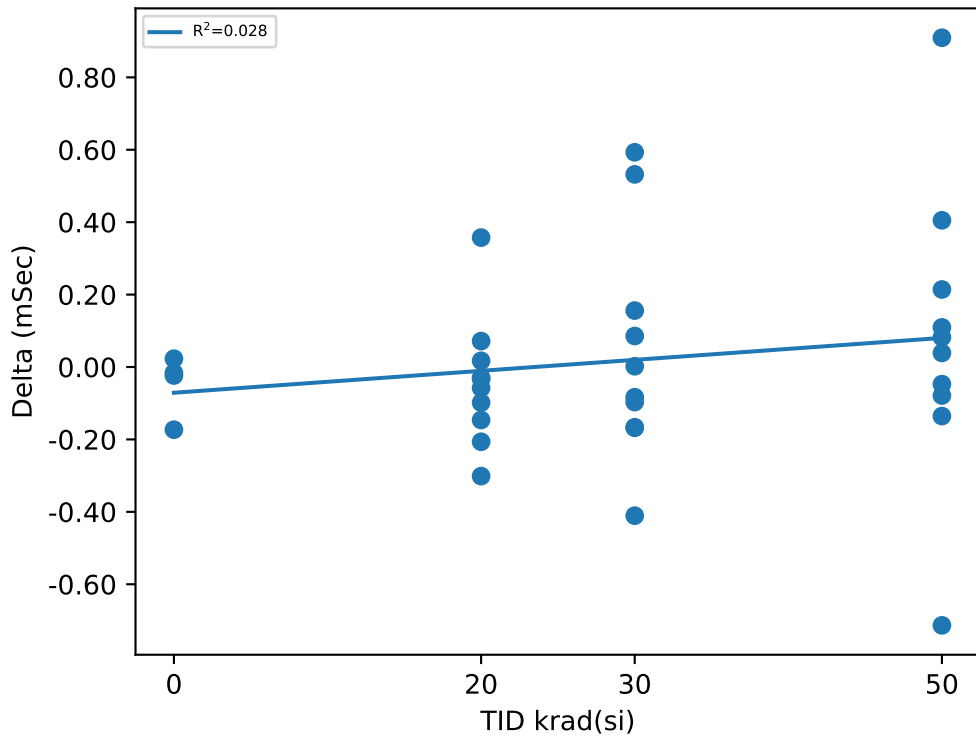
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.122 | 23.485 | 23.849 | 0.30788 | 23.106 | 23.438 | 23.872 | 0.3189 | -0.1731 | -0.047475 | 0.023 | 0.086207 |
| 20 | 22.797 | 23.45 | 24.207 | 0.47816 | 22.869 | 23.407 | 24.001 | 0.3945 | -0.3014 | -0.04265 | 0.3574 | 0.17789 |
| 30 | 22.925 | 23.38 | 23.721 | 0.22279 | 23.058 | 23.425 | 23.827 | 0.21043 | -0.4106 | 0.04435 | 0.593 | 0.31401 |
| 50 | 23.014 | 23.513 | 23.954 | 0.34999 | 23.137 | 23.592 | 24.133 | 0.35062 | -0.7135 | 0.07842 | 0.9094 | 0.41253 |

# Device Test: 17.8   TPD_EN(_DELAY|STEP_DOWN/EN2/1.6/3/0/0/0/@TPD_EN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.47 | 3.2716 | -0.1984 |
| 2 | 20 | Bias | 3.5572 | 3.2503 | -0.3069 |
| 3 | 20 | Bias | 3.1845 | 3.3137 | 0.1292 |
| 4 | 20 | Bias | 3.5237 | 3.3214 | -0.2023 |
| 5 | 20 | Bias | 3.4185 | 3.4955 | 0.077 |
| 6 | 20 | Unbiased | 3.4388 | 3.3479 | -0.0909 |
| 7 | 20 | Unbiased | 3.2555 | 3.4679 | 0.2124 |
| 8 | 20 | Unbiased | 3.336 | 3.5741 | 0.2381 |
| 9 | 20 | Unbiased | 3.5122 | 3.5186 | 0.0064 |
| 10 | 20 | Unbiased | 3.3871 | 3.4125 | 0.0254 |
| 11 | 30 | Bias | 3.2499 | 3.194 | -0.0559 |
| 12 | 30 | Bias | 3.1384 | 3.3152 | 0.1768 |
| 13 | 30 | Bias | 3.6787 | 3.0711 | -0.6076 |
| 14 | 30 | Bias | 3.3612 | 3.2169 | -0.1443 |
| 15 | 30 | Bias | 3.4125 | 3.3829 | -0.0296 |
| 16 | 30 | Unbiased | 3.2585 | 3.2291 | -0.0294 |
| 17 | 30 | Unbiased | 3.3906 | 3.388 | -0.0026 |
| 18 | 30 | Unbiased | 3.1635 | 3.2396 | 0.0761 |
| 19 | 30 | Unbiased | 3.2675 | 3.3797 | 0.1122 |
| 20 | 30 | Unbiased | 3.4643 | 3.3837 | -0.0806 |
| 21 | 50 | Bias | 3.3975 | 3.3951 | -0.0024 |
| 22 | 50 | Bias | 3.3645 | 3.5834 | 0.2189 |
| 23 | 50 | Bias | 3.0928 | 3.4489 | 0.3561 |
| 24 | 50 | Bias | 3.3685 | 3.4398 | 0.0713 |
| 25 | 50 | Bias | 3.237 | 3.2816 | 0.0446 |
| 26 | 50 | Unbiased | 3.2764 | 3.3211 | 0.0447 |
| 27 | 50 | Unbiased | 3.423 | 3.2089 | -0.2141 |
| 28 | 50 | Unbiased | 3.505 | 3.0865 | -0.4185 |
| 29 | 50 | Unbiased | 3.2614 | 3.2986 | 0.0372 |
| 30 | 50 | Unbiased | 3.4123 | 3.3393 | -0.073 |
| 31 | 0 | Correlation | 3.4922 | 3.4147 | -0.0775 |
| 32 | 0 | Correlation | 3.4314 | 3.3277 | -0.1037 |
| 33 | 0 | Correlation | 3.2575 | 3.3698 | 0.1123 |
| 34 | 0 | Correlation | 3.1176 | 3.4593 | 0.3417 |

## Test Statistics (uSec)
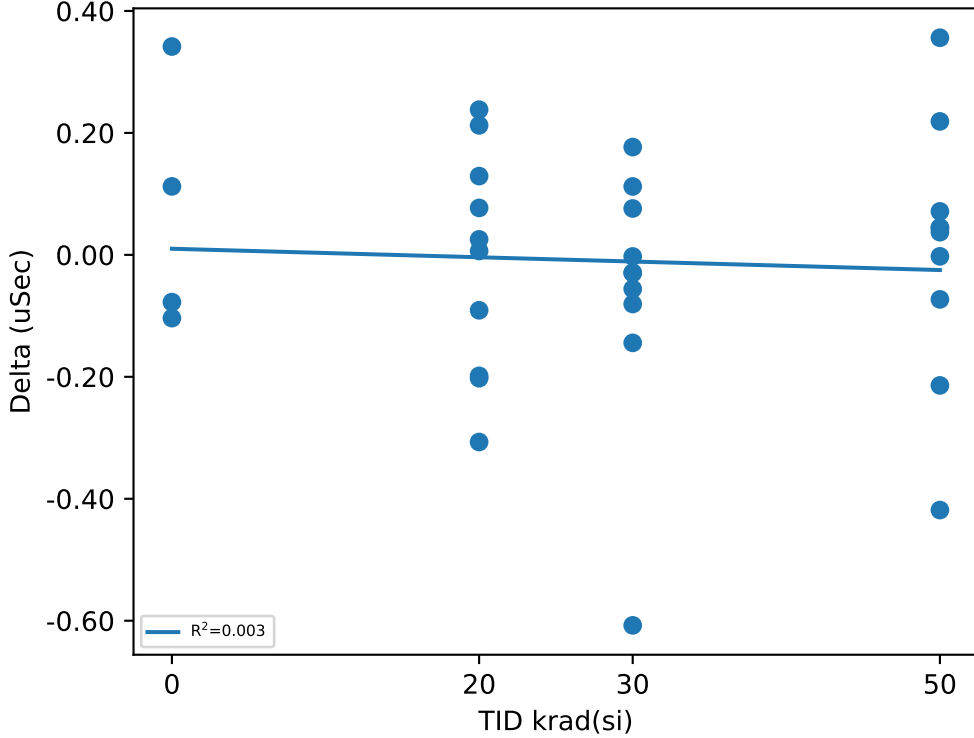
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.1176 | 3.3247 | 3.4922 | 0.17014 | 3.3277 | 3.3929 | 3.4593 | 0.056771 | -0.1037 | 0.0682 | 0.3417 | 0.20618 |
| 20 | 3.1845 | 3.4083 | 3.5572 | 0.12029 | 3.2503 | 3.3974 | 3.5741 | 0.11226 | -0.3069 | -0.011 | 0.2381 | 0.18458 |
| 30 | 3.1384 | 3.3385 | 3.6787 | 0.15994 | 3.0711 | 3.28 | 3.388 | 0.1072 | -0.6076 | -0.05849 | 0.1768 | 0.2152 |
| 50 | 3.0928 | 3.3338 | 3.505 | 0.11814 | 3.0865 | 3.3403 | 3.5834 | 0.13785 | -0.4185 | 0.00648 | 0.3561 | 0.21372 |
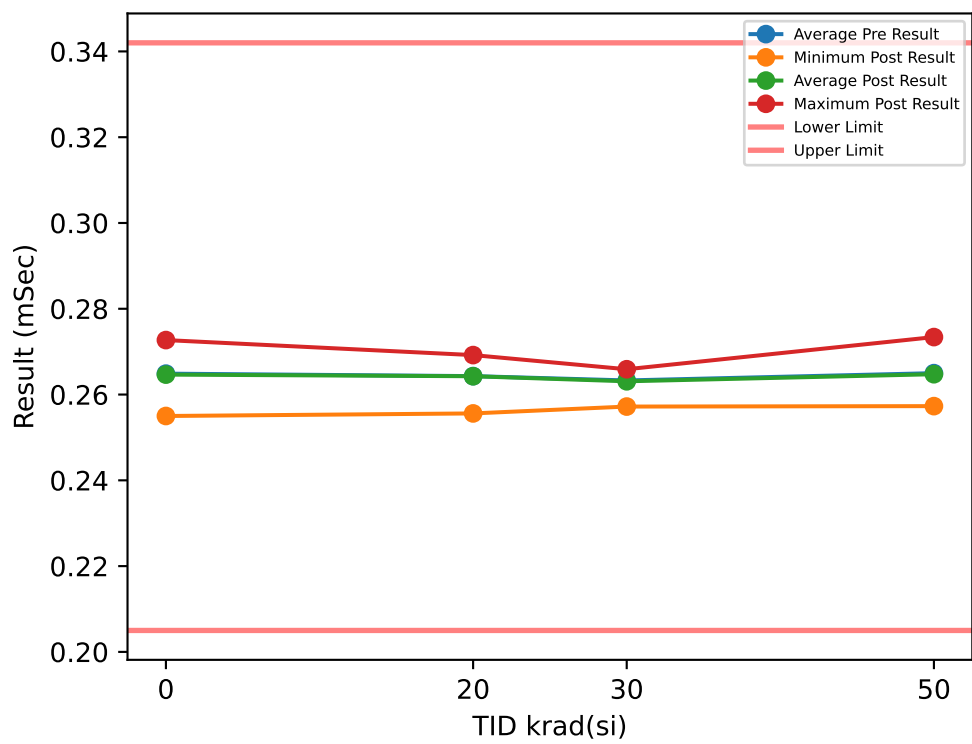
# Device Test: 17.80  DLY_TMR_10KOHM(_DELAY|STEP_UP/EN1/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

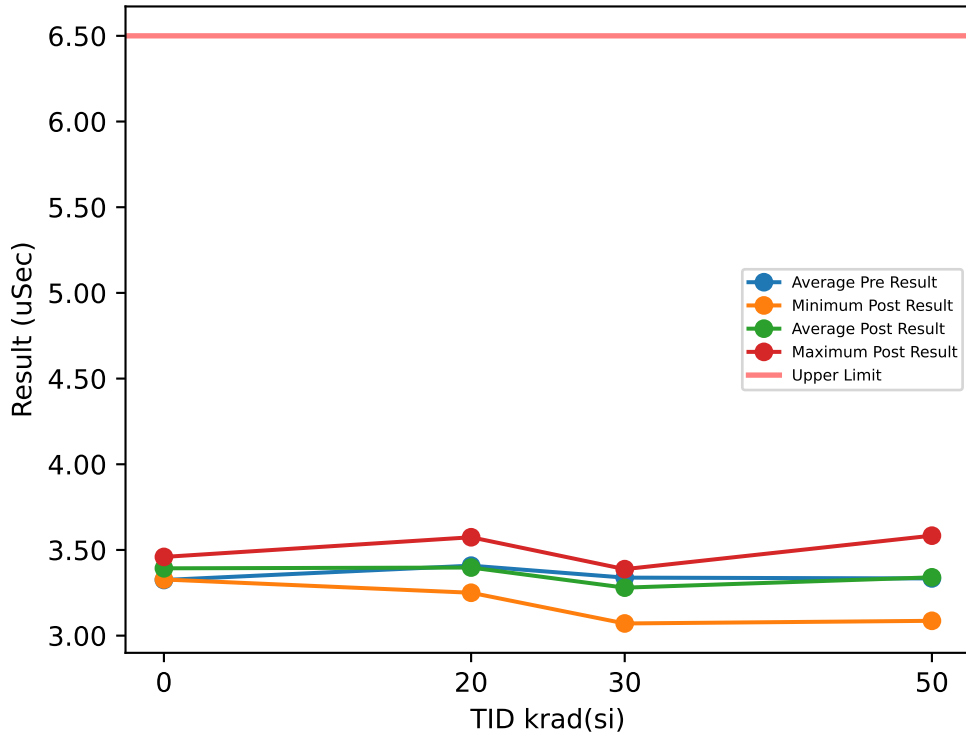| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2688 | 0.2665 | -0.0023 |
| 2 | 20 | Bias | 0.2676 | 0.2692 | 0.0016 |
| 3 | 20 | Bias | 0.2633 | 0.2644 | 0.0011 |
| 4 | 20 | Bias | 0.2662 | 0.2657 | -0.0005 |
| 5 | 20 | Bias | 0.2623 | 0.2634 | 0.0011 |
| 6 | 20 | Unbiased | 0.2569 | 0.2556 | -0.0013 |
| 7 | 20 | Unbiased | 0.264 | 0.2644 | 0.0004 |
| 8 | 20 | Unbiased | 0.2653 | 0.2654 | 0.0001 |
| 9 | 20 | Unbiased | 0.2649 | 0.2659 | 0.001 |
| 10 | 20 | Unbiased | 0.2637 | 0.2622 | -0.0015 |
| 11 | 30 | Bias | 0.2565 | 0.264 | 0.0075 |
| 12 | 30 | Bias | 0.2634 | 0.2572 | -0.0062 |
| 13 | 30 | Bias | 0.2666 | 0.2631 | -0.0035 |
| 14 | 30 | Bias | 0.2653 | 0.2654 | 0.0001 |
| 15 | 30 | Bias | 0.2668 | 0.2645 | -0.0023 |
| 16 | 30 | Unbiased | 0.2648 | 0.2651 | 0.0003 |
| 17 | 30 | Unbiased | 0.2639 | 0.2638 | -0.0001 |
| 18 | 30 | Unbiased | 0.2641 | 0.2659 | 0.0018 |
| 19 | 30 | Unbiased | 0.2564 | 0.2647 | 0.0083 |
| 20 | 30 | Unbiased | 0.2651 | 0.2572 | -0.0079 |
| 21 | 50 | Bias | 0.2584 | 0.2647 | 0.0063 |
| 22 | 50 | Bias | 0.2595 | 0.2573 | -0.0022 |
| 23 | 50 | Bias | 0.2655 | 0.2577 | -0.0078 |
| 24 | 50 | Bias | 0.2649 | 0.2655 | 0.0006 |
| 25 | 50 | Bias | 0.2719 | 0.2734 | 0.0015 |
| 26 | 50 | Unbiased | 0.268 | 0.2661 | -0.0019 |
| 27 | 50 | Unbiased | 0.2653 | 0.2651 | -0.0002 |
| 28 | 50 | Unbiased | 0.2654 | 0.2646 | -0.0008 |
| 29 | 50 | Unbiased | 0.2664 | 0.2666 | 0.0002 |
| 30 | 50 | Unbiased | 0.2646 | 0.2664 | 0.0018 |
| 31 | 0 | Correlation | 0.2656 | 0.2659 | 0.0003 |
| 32 | 0 | Correlation | 0.2554 | 0.255 | -0.0004 |
| 33 | 0 | Correlation | 0.2751 | 0.2727 | -0.0024 |
| 34 | 0 | Correlation | 0.2634 | 0.265 | 0.0016 |

## Test Statistics (mSec)
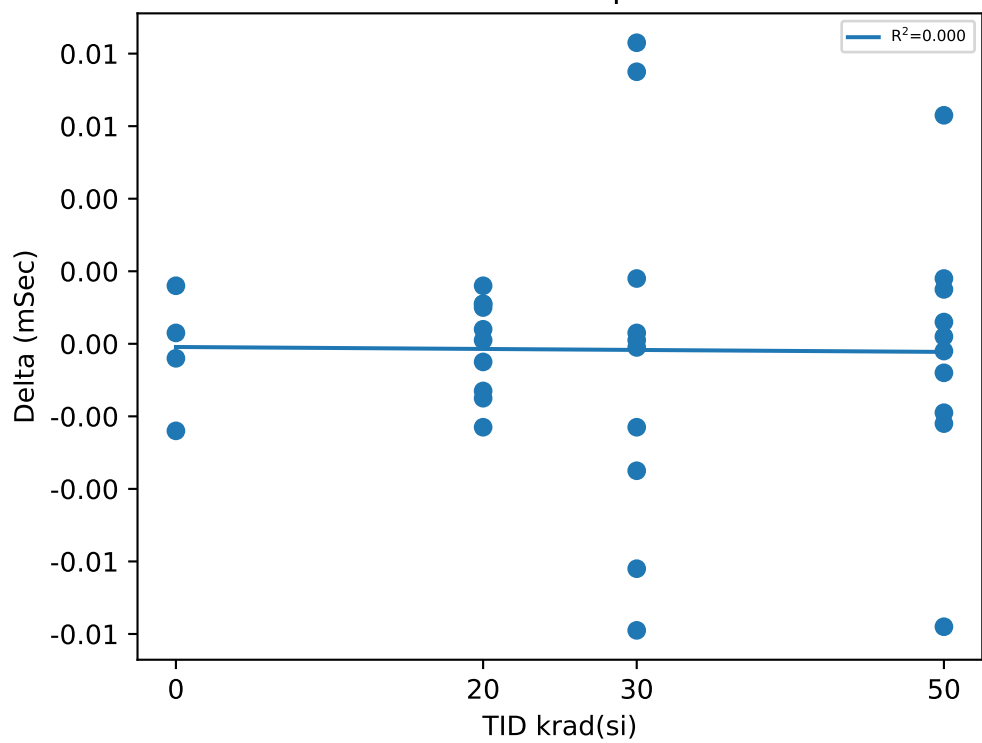
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2554 | 0.26488 | 0.2751 | 0.0081041 | 0.255 | 0.26465 | 0.2727 | 0.0072941 | -0.0024 | -0.000225 | 0.0016 | 0.0016701 |
| 20 | 0.2569 | 0.2643 | 0.2688 | 0.0032714 | 0.2556 | 0.26427 | 0.2692 | 0.0035824 | -0.0023 | -3e-05 | 0.0016 | 0.0013174 |
| 30 | 0.2564 | 0.26329 | 0.2668 | 0.0037637 | 0.2572 | 0.26309 | 0.2659 | 0.0032071 | -0.0079 | -0.0002 | 0.0083 | 0.0052332 |
| 50 | 0.2584 | 0.26499 | 0.2719 | 0.0038449 | 0.2573 | 0.26474 | 0.2734 | 0.004579 | -0.0078 | -0.00025 | 0.0063 | 0.0035734 |
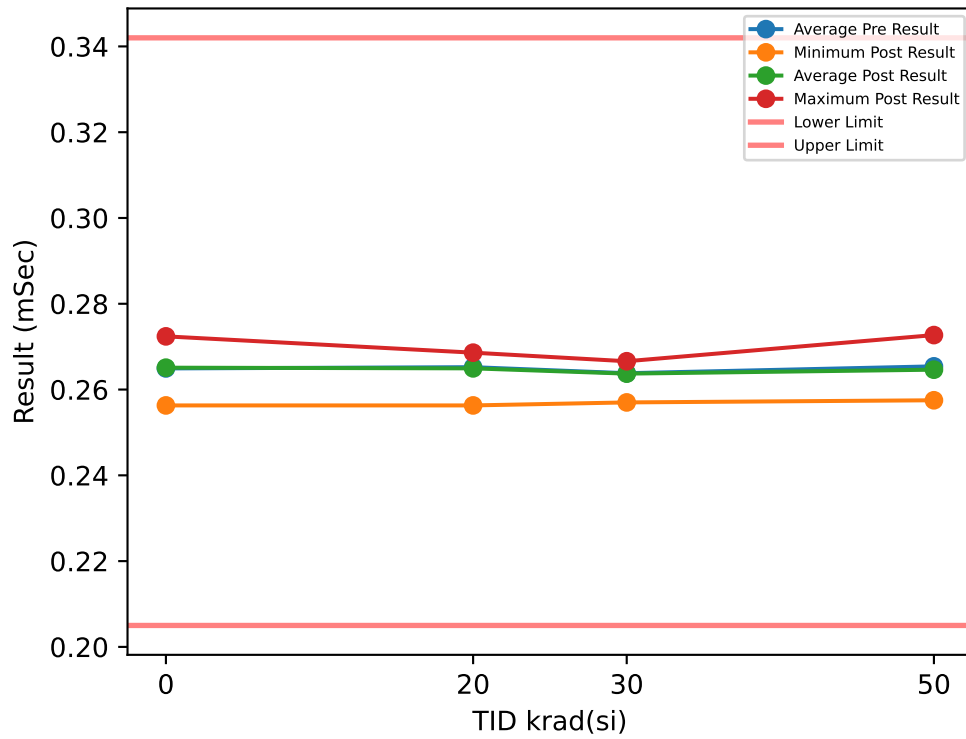
# Device Test: 17.81  DLY_TMR_10KOHM(_DELAY|STEP_UP/EN2/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2688 | 0.2686 | -0.0002 |
| 2 | 20 | Bias | 0.2683 | 0.268 | -0.0003 |
| 3 | 20 | Bias | 0.2649 | 0.2653 | 0.0004 |
| 4 | 20 | Bias | 0.2681 | 0.2657 | -0.0024 |
| 5 | 20 | Bias | 0.2634 | 0.265 | 0.0016 |
| 6 | 20 | Unbiased | 0.2583 | 0.2563 | -0.002 |
| 7 | 20 | Unbiased | 0.2655 | 0.2655 | 0 |
| 8 | 20 | Unbiased | 0.2659 | 0.266 | 0.0001 |
| 9 | 20 | Unbiased | 0.2651 | 0.2657 | 0.0006 |
| 10 | 20 | Unbiased | 0.2639 | 0.2633 | -0.0006 |
| 11 | 30 | Bias | 0.2582 | 0.2655 | 0.0073 |
| 12 | 30 | Bias | 0.2648 | 0.2581 | -0.0067 |
| 13 | 30 | Bias | 0.2645 | 0.2666 | 0.0021 |
| 14 | 30 | Bias | 0.2658 | 0.2661 | 0.0003 |
| 15 | 30 | Bias | 0.2675 | 0.2642 | -0.0033 |
| 16 | 30 | Unbiased | 0.2638 | 0.2654 | 0.0016 |
| 17 | 30 | Unbiased | 0.2639 | 0.2648 | 0.0009 |
| 18 | 30 | Unbiased | 0.2646 | 0.265 | 0.0004 |
| 19 | 30 | Unbiased | 0.2588 | 0.2644 | 0.0056 |
| 20 | 30 | Unbiased | 0.2662 | 0.257 | -0.0092 |
| 21 | 50 | Bias | 0.2588 | 0.2641 | 0.0053 |
| 22 | 50 | Bias | 0.2577 | 0.2583 | 0.0006 |
| 23 | 50 | Bias | 0.2678 | 0.2575 | -0.0103 |
| 24 | 50 | Bias | 0.2649 | 0.2645 | -0.0004 |
| 25 | 50 | Bias | 0.274 | 0.2727 | -0.0013 |
| 26 | 50 | Unbiased | 0.2689 | 0.2683 | -0.0006 |
| 27 | 50 | Unbiased | 0.2654 | 0.264 | -0.0014 |
| 28 | 50 | Unbiased | 0.2646 | 0.2634 | -0.0012 |
| 29 | 50 | Unbiased | 0.2668 | 0.2675 | 0.0007 |
| 30 | 50 | Unbiased | 0.2652 | 0.266 | 0.0008 |
| 31 | 0 | Correlation | 0.2649 | 0.2653 | 0.0004 |
| 32 | 0 | Correlation | 0.2574 | 0.2563 | -0.0011 |
| 33 | 0 | Correlation | 0.2733 | 0.2724 | -0.0009 |
| 34 | 0 | Correlation | 0.2641 | 0.2664 | 0.0023 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2574 | 0.26493 | 0.2733 | 0.0065179 | 0.2563 | 0.2651 | 0.2724 | 0.0066448 | -0.0011 | 0.000175 | 0.0023 | 0.001565 |
| 20 | 0.2583 | 0.26522 | 0.2688 | 0.0030586 | 0.2563 | 0.26494 | 0.2686 | 0.0033801 | -0.0024 | -0.00028 | 0.0016 | 0.0011811 |
| 30 | 0.2582 | 0.26381 | 0.2675 | 0.0030175 | 0.257 | 0.26371 | 0.2666 | 0.0033365 | -0.0092 | -0.0001 | 0.0073 | 0.0050881 |
| 50 | 0.2577 | 0.26541 | 0.274 | 0.004687 | 0.2575 | 0.26463 | 0.2727 | 0.0044947 | -0.0103 | -0.00078 | 0.0053 | 0.0038758 |
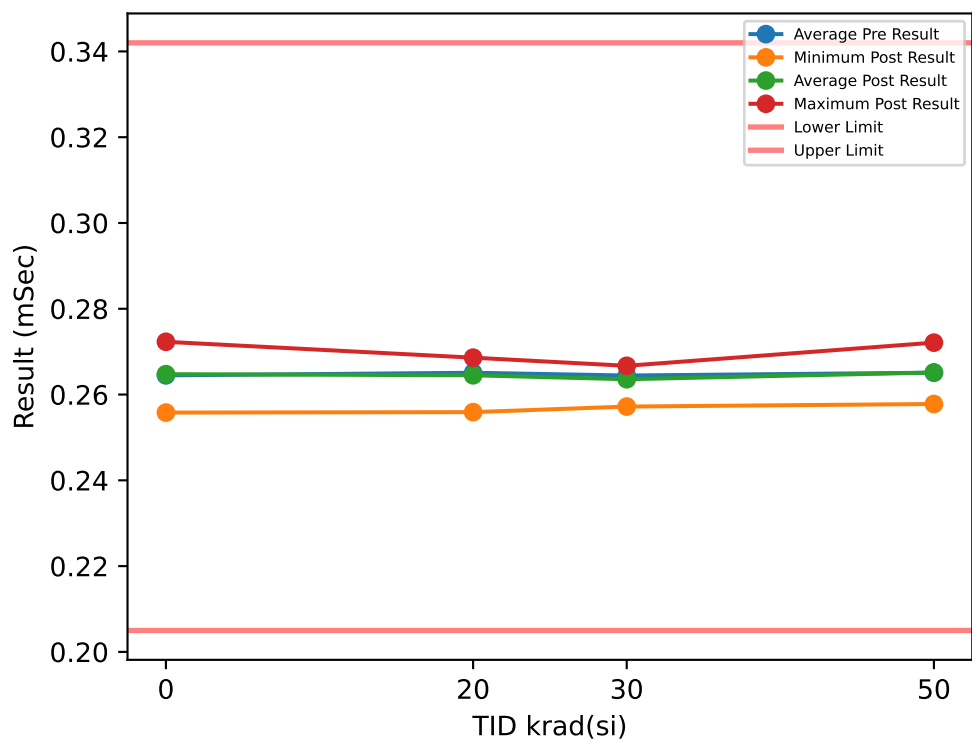
# Device Test: 17.82  DLY_TMR_10KOHM(_DELAY|STEP_UP/EN3/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 0.2688 | 0.2686 | -0.0002 |
| 2 | 20 | Bias | 0.2682 | 0.2673 | -0.0009 |
| 3 | 20 | Bias | 0.2647 | 0.2649 | 0.0002 |
| 4 | 20 | Bias | 0.2662 | 0.2662 | 0 |
| 5 | 20 | Bias | 0.2645 | 0.2629 | -0.0016 |
| 6 | 20 | Unbiased | 0.2575 | 0.2559 | -0.0016 |
| 7 | 20 | Unbiased | 0.2656 | 0.2633 | -0.0023 |
| 8 | 20 | Unbiased | 0.266 | 0.2656 | -0.0004 |
| 9 | 20 | Unbiased | 0.2656 | 0.266 | 0.0004 |
| 10 | 20 | Unbiased | 0.2637 | 0.2642 | 0.0005 |
| 11 | 30 | Bias | 0.2585 | 0.2654 | 0.0069 |
| 12 | 30 | Bias | 0.2643 | 0.2588 | -0.0055 |
| 13 | 30 | Bias | 0.2669 | 0.2634 | -0.0035 |
| 14 | 30 | Bias | 0.2654 | 0.2659 | 0.0005 |
| 15 | 30 | Bias | 0.2661 | 0.2635 | -0.0026 |
| 16 | 30 | Unbiased | 0.2654 | 0.2667 | 0.0013 |
| 17 | 30 | Unbiased | 0.2647 | 0.2647 | 0 |
| 18 | 30 | Unbiased | 0.2668 | 0.2652 | -0.0016 |
| 19 | 30 | Unbiased | 0.2605 | 0.2649 | 0.0044 |
| 20 | 30 | Unbiased | 0.2658 | 0.2572 | -0.0086 |
| 21 | 50 | Bias | 0.2581 | 0.2657 | 0.0076 |
| 22 | 50 | Bias | 0.2575 | 0.2593 | 0.0018 |
| 23 | 50 | Bias | 0.2658 | 0.2578 | -0.008 |
| 24 | 50 | Bias | 0.2647 | 0.2667 | 0.002 |
| 25 | 50 | Bias | 0.2736 | 0.2721 | -0.0015 |
| 26 | 50 | Unbiased | 0.2689 | 0.2671 | -0.0018 |
| 27 | 50 | Unbiased | 0.2648 | 0.2645 | -0.0003 |
| 28 | 50 | Unbiased | 0.2645 | 0.2638 | -0.0007 |
| 29 | 50 | Unbiased | 0.2666 | 0.2674 | 0.0008 |
| 30 | 50 | Unbiased | 0.2665 | 0.267 | 0.0005 |
| 31 | 0 | Correlation | 0.2649 | 0.2657 | 0.0008 |
| 32 | 0 | Correlation | 0.2564 | 0.2558 | -0.0006 |
| 33 | 0 | Correlation | 0.2732 | 0.2723 | -0.0009 |
| 34 | 0 | Correlation | 0.2634 | 0.2652 | 0.0018 |

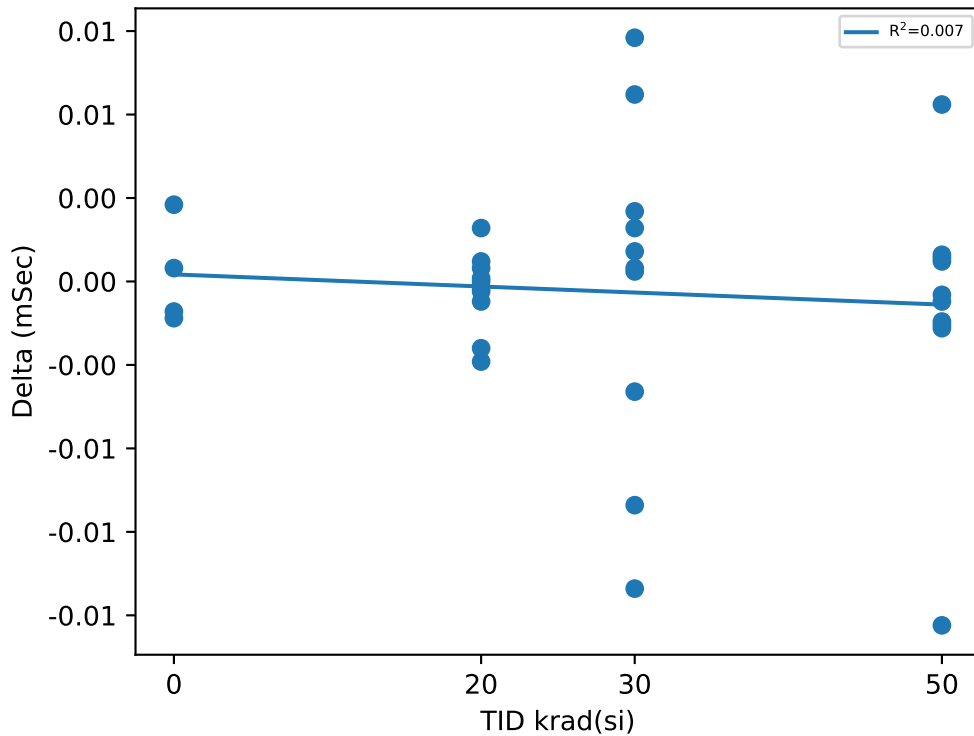## Test Statistics (mSec)
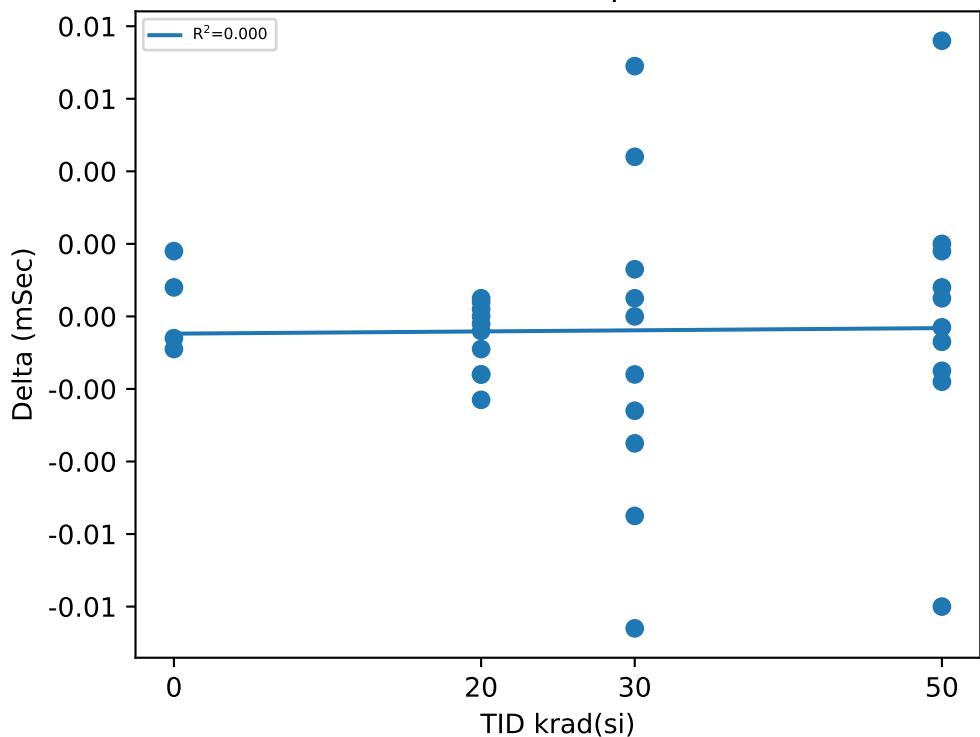
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2564 | 0.26448 | 0.2732 | 0.0068961 | 0.2558 | 0.26475 | 0.2723 | 0.0067875 | -0.0009 | 0.000275 | 0.0018 | 0.001258 |
| 20 | 0.2575 | 0.26508 | 0.2688 | 0.0030922 | 0.2559 | 0.26449 | 0.2686 | 0.0034834 | -0.0023 | -0.00059 | 0.0005 | 0.00096546 |
| 30 | 0.2585 | 0.26444 | 0.2669 | 0.0027682 | 0.2572 | 0.26357 | 0.2667 | 0.0031206 | -0.0086 | -0.00087 | 0.0069 | 0.0045597 |
| 50 | 0.2575 | 0.2651 | 0.2736 | 0.0046994 | 0.2578 | 0.26514 | 0.2721 | 0.0041337 | -0.008 | 4e-05 | 0.0076 | 0.0038865 |
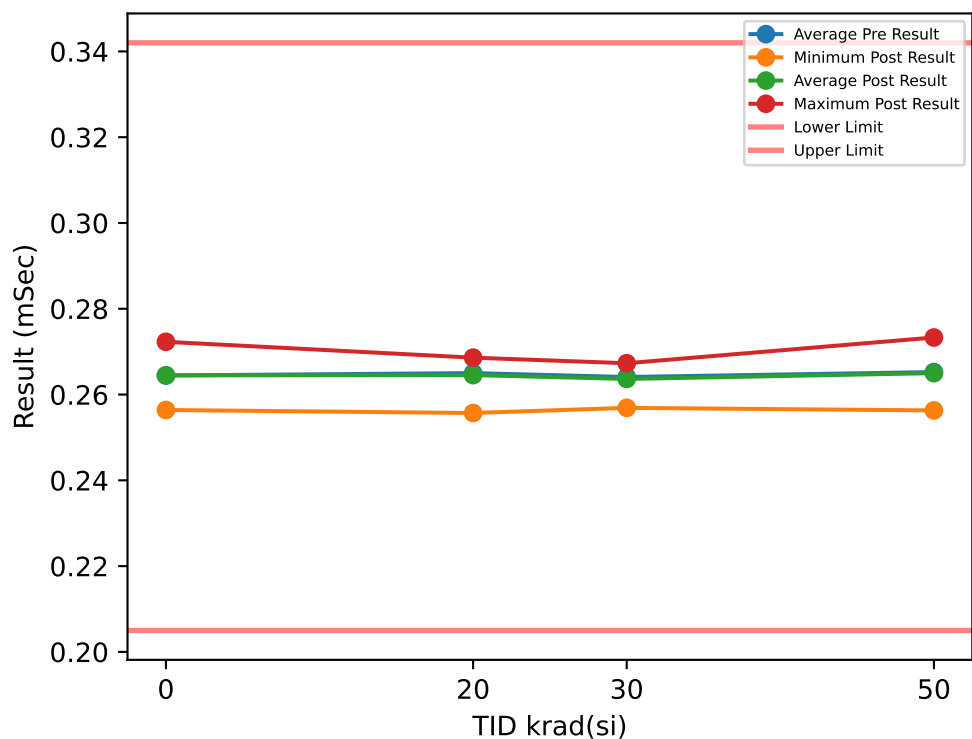
# Device Test: 17.83  DLY_TMR_10KOHM(_DELAY|STEP_UP/EN4/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats

Result (mSec) vs TID krad(si)

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

## TID vs Post - Pre Exposure Delta

Delta (mSec) vs TID krad(si)

R²=0.000

## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2691 | 0.2671 | -0.002 |
| 2 | 20 | Bias | 0.2697 | 0.2686 | -0.0011 |
| 3 | 20 | Bias | 0.2651 | 0.2638 | -0.0013 |
| 4 | 20 | Bias | 0.2658 | 0.2661 | 0.0003 |
| 5 | 20 | Bias | 0.2634 | 0.2637 | 0.0003 |
| 6 | 20 | Unbiased | 0.2575 | 0.2557 | -0.0018 |
| 7 | 20 | Unbiased | 0.2644 | 0.265 | 0.0006 |
| 8 | 20 | Unbiased | 0.2662 | 0.266 | -0.0002 |
| 9 | 20 | Unbiased | 0.2661 | 0.2655 | -0.0006 |
| 10 | 20 | Unbiased | 0.2627 | 0.2638 | 0.0011 |
| 11 | 30 | Bias | 0.2576 | 0.2637 | 0.0061 |
| 12 | 30 | Bias | 0.2646 | 0.2569 | -0.0077 |
| 13 | 30 | Bias | 0.2653 | 0.264 | -0.0013 |
| 14 | 30 | Bias | 0.2652 | 0.266 | 0.0008 |
| 15 | 30 | Bias | 0.2672 | 0.2651 | -0.0021 |
| 16 | 30 | Unbiased | 0.2644 | 0.2673 | 0.0029 |
| 17 | 30 | Unbiased | 0.2664 | 0.2648 | -0.0016 |
| 18 | 30 | Unbiased | 0.2668 | 0.2654 | -0.0014 |
| 19 | 30 | Unbiased | 0.2584 | 0.2662 | 0.0078 |
| 20 | 30 | Unbiased | 0.265 | 0.257 | -0.008 |
| 21 | 50 | Bias | 0.2589 | 0.2644 | 0.0055 |
| 22 | 50 | Bias | 0.2574 | 0.2594 | 0.002 |
| 23 | 50 | Bias | 0.2655 | 0.2563 | -0.0092 |
| 24 | 50 | Bias | 0.2651 | 0.2657 | 0.0006 |
| 25 | 50 | Bias | 0.2734 | 0.2733 | -0.0001 |
| 26 | 50 | Unbiased | 0.2693 | 0.2688 | -0.0005 |
| 27 | 50 | Unbiased | 0.2647 | 0.2642 | -0.0005 |
| 28 | 50 | Unbiased | 0.2646 | 0.2647 | 0.0001 |
| 29 | 50 | Unbiased | 0.2668 | 0.2669 | 0.0001 |
| 30 | 50 | Unbiased | 0.2667 | 0.2662 | -0.0005 |
| 31 | 0 | Correlation | 0.2654 | 0.2645 | -0.0009 |
| 32 | 0 | Correlation | 0.2552 | 0.2564 | 0.0012 |
| 33 | 0 | Correlation | 0.2726 | 0.2723 | -0.0003 |
| 34 | 0 | Correlation | 0.2646 | 0.2647 | 0.0001 |

## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2552 | 0.26445 | 0.2726 | 0.0071393 | 0.2564 | 0.26448 | 0.2723 | 0.0064933 | -0.0009 | 2.5e-05 | 0.0012 | 0.00088459 |
| 20 | 0.2575 | 0.265 | 0.2697 | 0.0034425 | 0.2557 | 0.26453 | 0.2686 | 0.003475 | -0.002 | -0.00047 | 0.0011 | 0.0010584 |
| 30 | 0.2576 | 0.26409 | 0.2672 | 0.0033455 | 0.2569 | 0.26364 | 0.2673 | 0.0036779 | -0.008 | -0.00045 | 0.0078 | 0.005153 |
| 50 | 0.2574 | 0.26524 | 0.2734 | 0.0045957 | 0.2563 | 0.26499 | 0.2733 | 0.0046787 | -0.0092 | -0.00025 | 0.0055 | 0.0036424 |
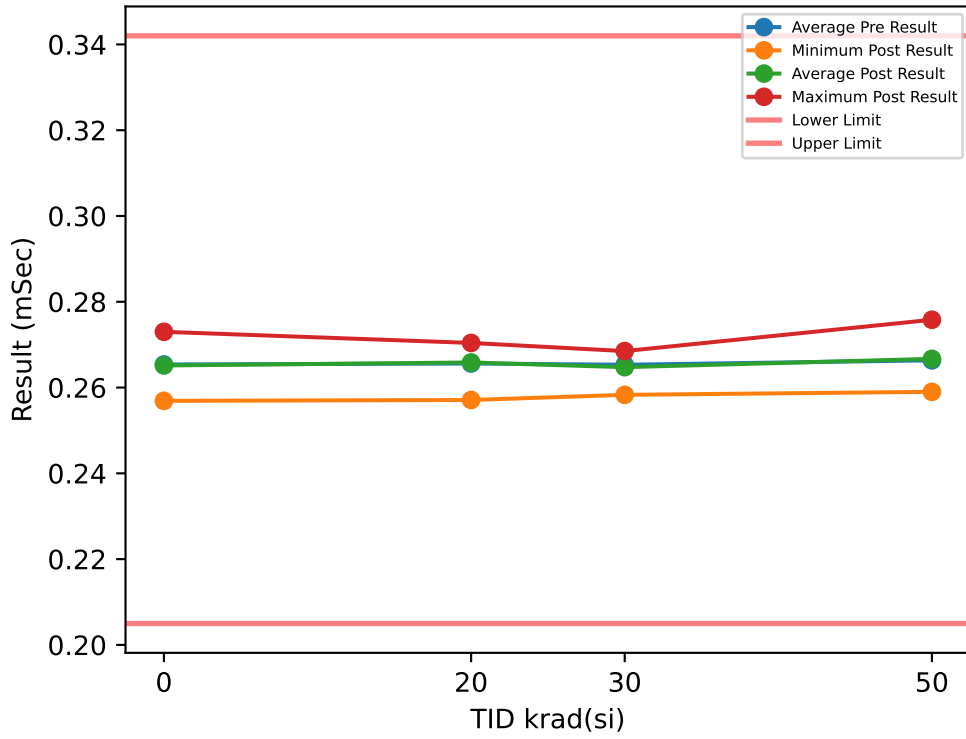
# Device Test: 17.84  DLY_TMR_10KOHM(_DELAY|STEP_UP/SEQ_DONE/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2689 | 0.2704 | 0.0015 |
| 2 | 20 | Bias | 0.2698 | 0.2695 | -0.0003 |
| 3 | 20 | Bias | 0.2666 | 0.2647 | -0.0019 |
| 4 | 20 | Bias | 0.2663 | 0.268 | 0.0017 |
| 5 | 20 | Bias | 0.2643 | 0.2651 | 0.0008 |
| 6 | 20 | Unbiased | 0.2569 | 0.2571 | 0.0002 |
| 7 | 20 | Unbiased | 0.2663 | 0.2654 | -0.0009 |
| 8 | 20 | Unbiased | 0.2661 | 0.267 | 0.0009 |
| 9 | 20 | Unbiased | 0.2673 | 0.2655 | -0.0018 |
| 10 | 20 | Unbiased | 0.2636 | 0.2658 | 0.0022 |
| 11 | 30 | Bias | 0.258 | 0.2648 | 0.0068 |
| 12 | 30 | Bias | 0.2662 | 0.2595 | -0.0067 |
| 13 | 30 | Bias | 0.267 | 0.2656 | -0.0014 |
| 14 | 30 | Bias | 0.2658 | 0.2663 | 0.0005 |
| 15 | 30 | Bias | 0.2691 | 0.2669 | -0.0022 |
| 16 | 30 | Unbiased | 0.265 | 0.2673 | 0.0023 |
| 17 | 30 | Unbiased | 0.2666 | 0.2643 | -0.0023 |
| 18 | 30 | Unbiased | 0.2685 | 0.2685 | 0 |
| 19 | 30 | Unbiased | 0.2591 | 0.266 | 0.0069 |
| 20 | 30 | Unbiased | 0.2678 | 0.2583 | -0.0095 |
| 21 | 50 | Bias | 0.2602 | 0.267 | 0.0068 |
| 22 | 50 | Bias | 0.2582 | 0.2604 | 0.0022 |
| 23 | 50 | Bias | 0.2676 | 0.259 | -0.0086 |
| 24 | 50 | Bias | 0.2657 | 0.2685 | 0.0028 |
| 25 | 50 | Bias | 0.2739 | 0.2758 | 0.0019 |
| 26 | 50 | Unbiased | 0.2702 | 0.2686 | -0.0016 |
| 27 | 50 | Unbiased | 0.2655 | 0.2654 | -0.0001 |
| 28 | 50 | Unbiased | 0.2668 | 0.2659 | -0.0009 |
| 29 | 50 | Unbiased | 0.268 | 0.2681 | 0.0001 |
| 30 | 50 | Unbiased | 0.2674 | 0.2682 | 0.0008 |
| 31 | 0 | Correlation | 0.266 | 0.2651 | -0.0009 |
| 32 | 0 | Correlation | 0.2575 | 0.2569 | -0.0006 |
| 33 | 0 | Correlation | 0.273 | 0.273 | 0 |
| 34 | 0 | Correlation | 0.265 | 0.2656 | 0.0006 |

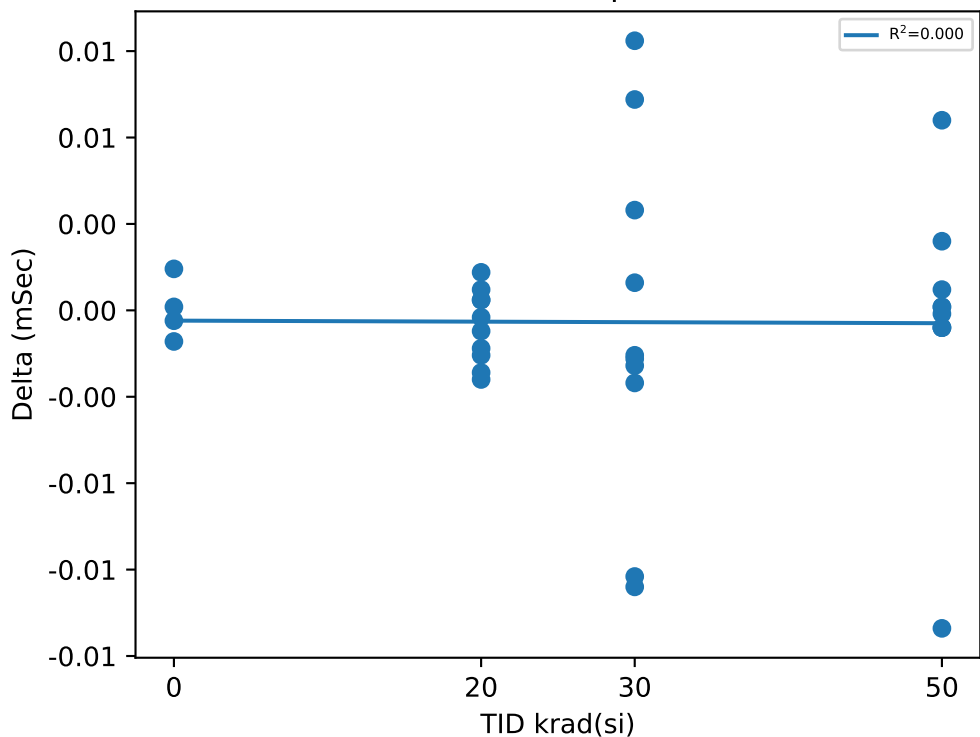## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2575 | 0.26538 | 0.273 | 0.0063426 | 0.2569 | 0.26515 | 0.273 | 0.00658 | -0.0009 | -0.000225 | 0.0006 | 0.00066521 |
| 20 | 0.2569 | 0.26561 | 0.2698 | 0.0035751 | 0.2571 | 0.26585 | 0.2704 | 0.0036323 | -0.0019 | 0.00024 | 0.0022 | 0.0014393 |
| 30 | 0.258 | 0.26531 | 0.2691 | 0.003777 | 0.2583 | 0.26475 | 0.2685 | 0.0033207 | -0.0095 | -0.00056 | 0.0069 | 0.0052013 |
| 50 | 0.2582 | 0.26635 | 0.2739 | 0.0045068 | 0.259 | 0.26669 | 0.2758 | 0.004658 | -0.0086 | 0.00034 | 0.0068 | 0.0039351 |
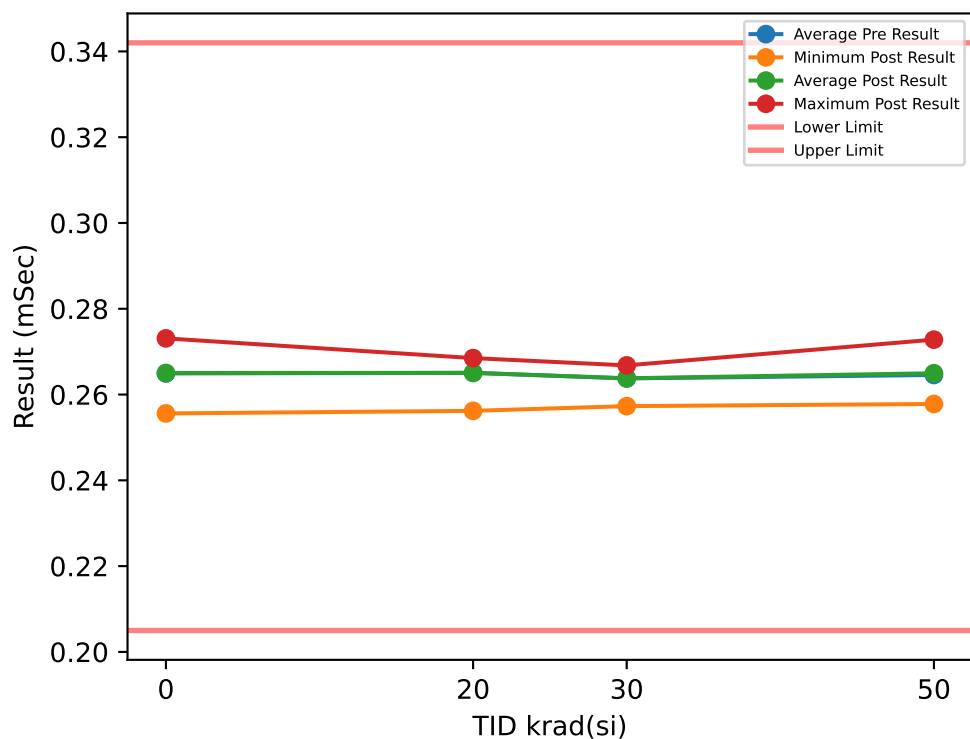
# Device Test: 17.85  DLY_TMR_10KOHM(_DELAY|STEP_UP/PWRGD/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2675 | 0.2685 | 0.001 |
| 2 | 20 | Bias | 0.2679 | 0.2676 | -0.0003 |
| 3 | 20 | Bias | 0.2659 | 0.2654 | -0.0005 |
| 4 | 20 | Bias | 0.2679 | 0.2669 | -0.001 |
| 5 | 20 | Bias | 0.264 | 0.2651 | 0.0011 |
| 6 | 20 | Unbiased | 0.257 | 0.2562 | -0.0008 |
| 7 | 20 | Unbiased | 0.2655 | 0.2646 | -0.0009 |
| 8 | 20 | Unbiased | 0.2662 | 0.2664 | 0.0002 |
| 9 | 20 | Unbiased | 0.2664 | 0.2647 | -0.0017 |
| 10 | 20 | Unbiased | 0.2624 | 0.2651 | 0.0027 |
| 11 | 30 | Bias | 0.2569 | 0.2644 | 0.0075 |
| 12 | 30 | Bias | 0.264 | 0.2573 | -0.0067 |
| 13 | 30 | Bias | 0.267 | 0.2647 | -0.0023 |
| 14 | 30 | Bias | 0.2654 | 0.265 | -0.0004 |
| 15 | 30 | Bias | 0.2658 | 0.2654 | -0.0004 |
| 16 | 30 | Unbiased | 0.2643 | 0.2662 | 0.0019 |
| 17 | 30 | Unbiased | 0.2653 | 0.2651 | -0.0002 |
| 18 | 30 | Unbiased | 0.2645 | 0.2652 | 0.0007 |
| 19 | 30 | Unbiased | 0.2577 | 0.2668 | 0.0091 |
| 20 | 30 | Unbiased | 0.2667 | 0.2579 | -0.0088 |
| 21 | 50 | Bias | 0.2575 | 0.2648 | 0.0073 |
| 22 | 50 | Bias | 0.2581 | 0.2588 | 0.0007 |
| 23 | 50 | Bias | 0.2669 | 0.2578 | -0.0091 |
| 24 | 50 | Bias | 0.264 | 0.2664 | 0.0024 |
| 25 | 50 | Bias | 0.2719 | 0.2728 | 0.0009 |
| 26 | 50 | Unbiased | 0.2666 | 0.2673 | 0.0007 |
| 27 | 50 | Unbiased | 0.2645 | 0.2638 | -0.0007 |
| 28 | 50 | Unbiased | 0.2637 | 0.2641 | 0.0004 |
| 29 | 50 | Unbiased | 0.2662 | 0.2672 | 0.001 |
| 30 | 50 | Unbiased | 0.2662 | 0.2667 | 0.0005 |
| 31 | 0 | Correlation | 0.264 | 0.2663 | 0.0023 |
| 32 | 0 | Correlation | 0.2574 | 0.2556 | -0.0018 |
| 33 | 0 | Correlation | 0.2736 | 0.2731 | -0.0005 |
| 34 | 0 | Correlation | 0.2647 | 0.2651 | 0.0004 |

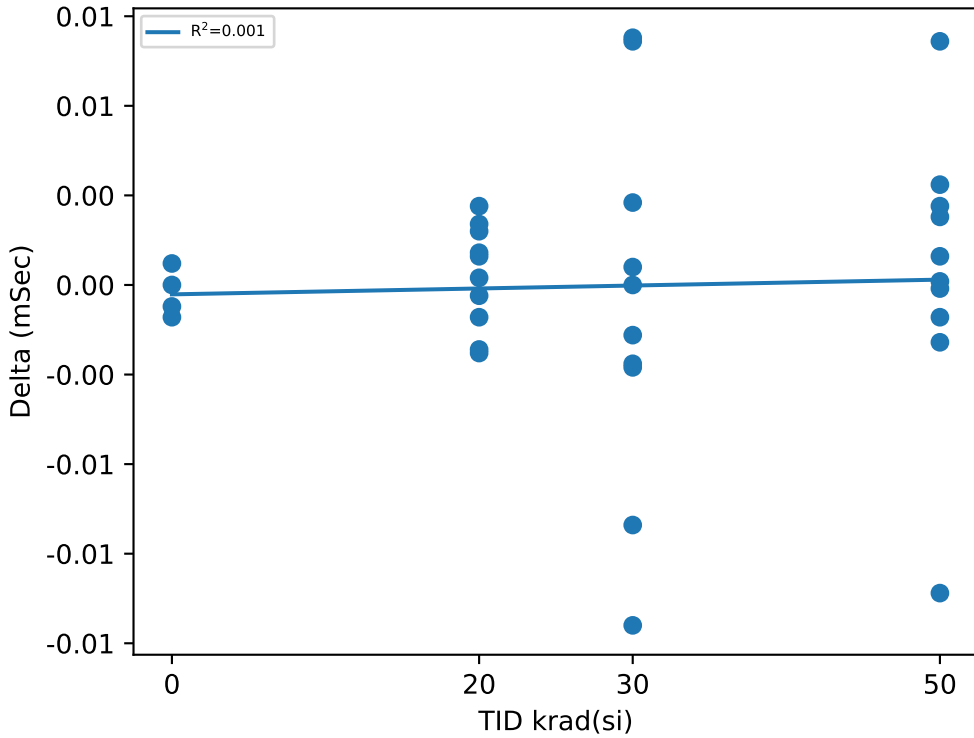## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2574 | 0.26493 | 0.2736 | 0.006653 | 0.2556 | 0.26503 | 0.2731 | 0.0072034 | -0.0018 | 0.0001 | 0.0023 | 0.0017224 |
| 20 | 0.257 | 0.26507 | 0.2679 | 0.0033207 | 0.2562 | 0.26505 | 0.2685 | 0.0033735 | -0.0017 | -2e-05 | 0.0027 | 0.0013003 |
| 30 | 0.2569 | 0.26376 | 0.267 | 0.0035441 | 0.2573 | 0.2638 | 0.2668 | 0.003344 | -0.0088 | 4e-05 | 0.0091 | 0.0054886 |
| 50 | 0.2575 | 0.26456 | 0.2719 | 0.0042364 | 0.2578 | 0.26497 | 0.2728 | 0.0043254 | -0.0091 | 0.00041 | 0.0073 | 0.0039982 |
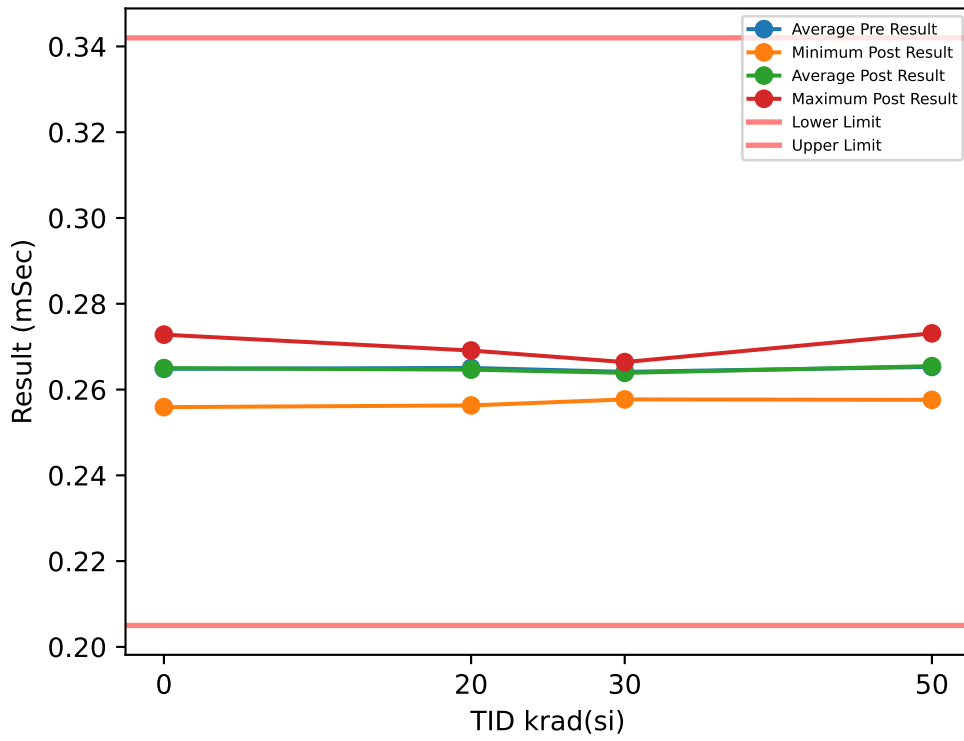
# Device Test: 17.86  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN1/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2681 | 0.2681 | 0 |
| 2 | 20 | Bias | 0.268 | 0.2691 | 0.0011 |
| 3 | 20 | Bias | 0.266 | 0.2649 | -0.0011 |
| 4 | 20 | Bias | 0.2668 | 0.2659 | -0.0009 |
| 5 | 20 | Bias | 0.2631 | 0.2625 | -0.0006 |
| 6 | 20 | Unbiased | 0.2575 | 0.2563 | -0.0012 |
| 7 | 20 | Unbiased | 0.2651 | 0.2646 | -0.0005 |
| 8 | 20 | Unbiased | 0.2673 | 0.2661 | -0.0012 |
| 9 | 20 | Unbiased | 0.2652 | 0.2646 | -0.0006 |
| 10 | 20 | Unbiased | 0.2633 | 0.2643 | 0.001 |
| 11 | 30 | Bias | 0.2584 | 0.266 | 0.0076 |
| 12 | 30 | Bias | 0.2644 | 0.2578 | -0.0066 |
| 13 | 30 | Bias | 0.2669 | 0.2637 | -0.0032 |
| 14 | 30 | Bias | 0.2652 | 0.2661 | 0.0009 |
| 15 | 30 | Bias | 0.2688 | 0.2658 | -0.003 |
| 16 | 30 | Unbiased | 0.2639 | 0.2664 | 0.0025 |
| 17 | 30 | Unbiased | 0.2646 | 0.2632 | -0.0014 |
| 18 | 30 | Unbiased | 0.2665 | 0.2662 | -0.0003 |
| 19 | 30 | Unbiased | 0.2584 | 0.266 | 0.0076 |
| 20 | 30 | Unbiased | 0.2642 | 0.2577 | -0.0065 |
| 21 | 50 | Bias | 0.259 | 0.2658 | 0.0068 |
| 22 | 50 | Bias | 0.2576 | 0.259 | 0.0014 |
| 23 | 50 | Bias | 0.2677 | 0.2576 | -0.0101 |
| 24 | 50 | Bias | 0.2636 | 0.2683 | 0.0047 |
| 25 | 50 | Bias | 0.2731 | 0.2731 | 0 |
| 26 | 50 | Unbiased | 0.2677 | 0.2684 | 0.0007 |
| 27 | 50 | Unbiased | 0.2648 | 0.2642 | -0.0006 |
| 28 | 50 | Unbiased | 0.2658 | 0.264 | -0.0018 |
| 29 | 50 | Unbiased | 0.2677 | 0.2674 | -0.0003 |
| 30 | 50 | Unbiased | 0.2658 | 0.2668 | 0.001 |
| 31 | 0 | Correlation | 0.2651 | 0.2653 | 0.0002 |
| 32 | 0 | Correlation | 0.2564 | 0.2559 | -0.0005 |
| 33 | 0 | Correlation | 0.2732 | 0.2728 | -0.0004 |
| 34 | 0 | Correlation | 0.2646 | 0.266 | 0.0014 |

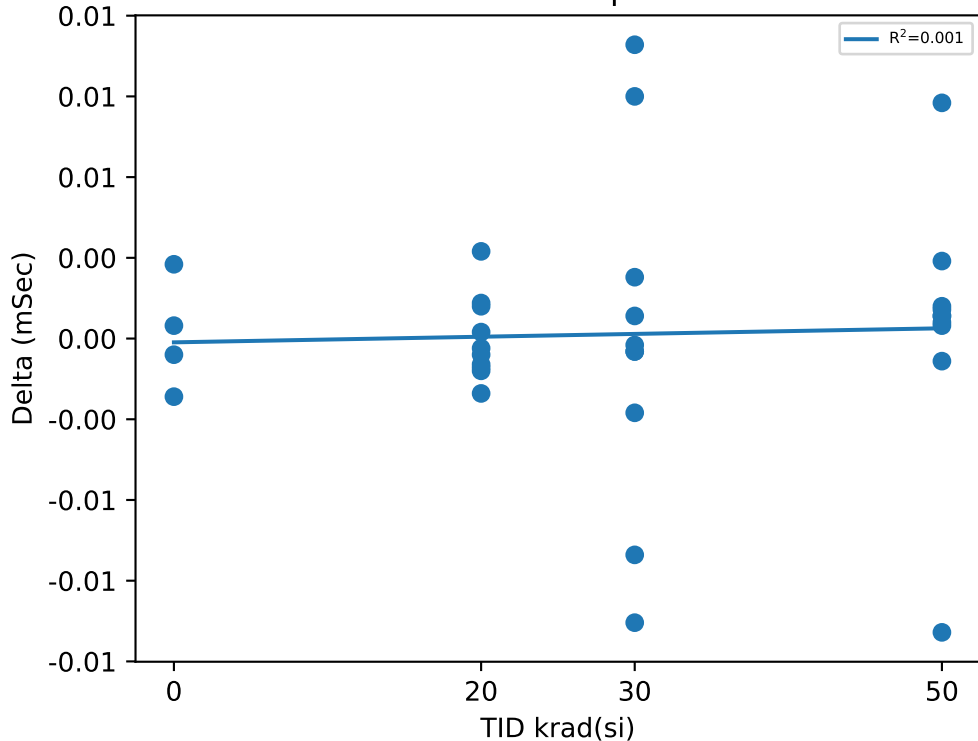## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2564 | 0.26482 | 0.2732 | 0.0068617 | 0.2559 | 0.265 | 0.2728 | 0.006946 | -0.0005 | 0.000175 | 0.0014 | 0.00087321 |
| 20 | 0.2575 | 0.26504 | 0.2681 | 0.0031785 | 0.2563 | 0.26464 | 0.2691 | 0.0034945 | -0.0012 | -0.0004 | 0.0011 | 0.00084853 |
| 30 | 0.2584 | 0.26413 | 0.2688 | 0.0033708 | 0.2577 | 0.26389 | 0.2664 | 0.0034155 | -0.0066 | -0.00024 | 0.0076 | 0.0050454 |
| 50 | 0.2576 | 0.26528 | 0.2731 | 0.0044813 | 0.2576 | 0.26546 | 0.2731 | 0.0045702 | -0.0101 | 0.00018 | 0.0068 | 0.0044367 |
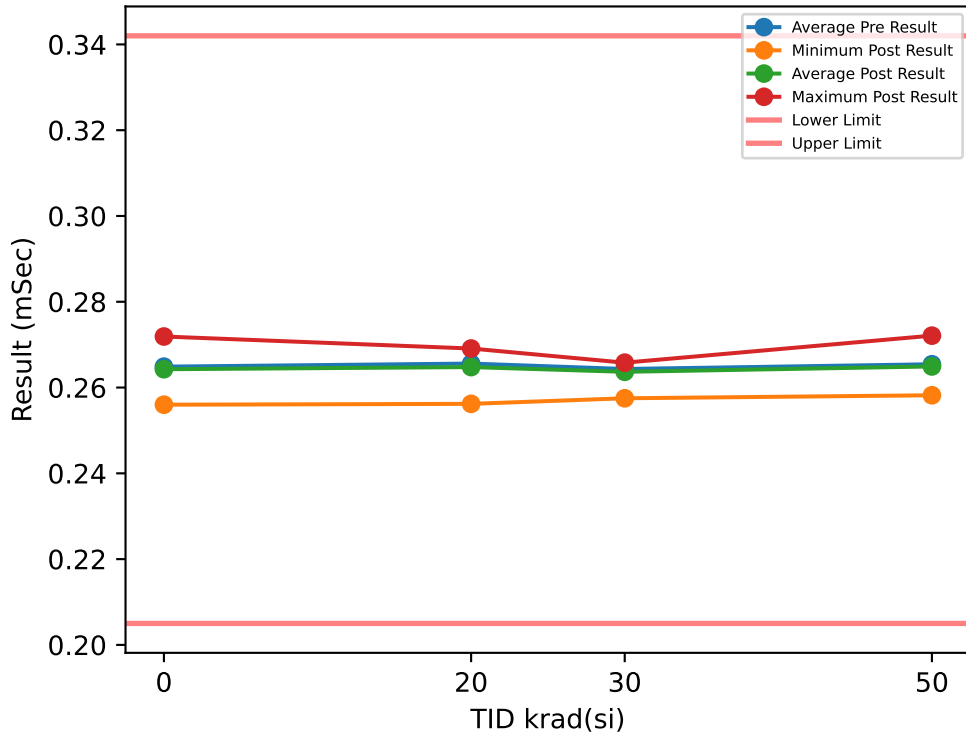
# Device Test: 17.87  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN2/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 0.2712 | 0.268 | -0.0032 |
| 2 | 20 | Bias | 0.2693 | 0.2691 | -0.0002 |
| 3 | 20 | Bias | 0.2642 | 0.2657 | 0.0015 |
| 4 | 20 | Bias | 0.2678 | 0.2658 | -0.002 |
| 5 | 20 | Bias | 0.2642 | 0.264 | -0.0002 |
| 6 | 20 | Unbiased | 0.2575 | 0.2562 | -0.0013 |
| 7 | 20 | Unbiased | 0.2659 | 0.2647 | -0.0012 |
| 8 | 20 | Unbiased | 0.2654 | 0.2658 | 0.0004 |
| 9 | 20 | Unbiased | 0.2661 | 0.2648 | -0.0013 |
| 10 | 20 | Unbiased | 0.2643 | 0.2636 | -0.0007 |
| 11 | 30 | Bias | 0.258 | 0.2649 | 0.0069 |
| 12 | 30 | Bias | 0.265 | 0.2596 | -0.0054 |
| 13 | 30 | Bias | 0.2656 | 0.2647 | -0.0009 |
| 14 | 30 | Bias | 0.2653 | 0.2658 | 0.0005 |
| 15 | 30 | Bias | 0.2668 | 0.2648 | -0.002 |
| 16 | 30 | Unbiased | 0.2656 | 0.2648 | -0.0008 |
| 17 | 30 | Unbiased | 0.2648 | 0.2646 | -0.0002 |
| 18 | 30 | Unbiased | 0.2665 | 0.2654 | -0.0011 |
| 19 | 30 | Unbiased | 0.2601 | 0.2646 | 0.0045 |
| 20 | 30 | Unbiased | 0.2656 | 0.2575 | -0.0081 |
| 21 | 50 | Bias | 0.2591 | 0.2634 | 0.0043 |
| 22 | 50 | Bias | 0.2568 | 0.2601 | 0.0033 |
| 23 | 50 | Bias | 0.2676 | 0.2582 | -0.0094 |
| 24 | 50 | Bias | 0.2643 | 0.2668 | 0.0025 |
| 25 | 50 | Bias | 0.273 | 0.2721 | -0.0009 |
| 26 | 50 | Unbiased | 0.2682 | 0.2689 | 0.0007 |
| 27 | 50 | Unbiased | 0.2652 | 0.2628 | -0.0024 |
| 28 | 50 | Unbiased | 0.2657 | 0.264 | -0.0017 |
| 29 | 50 | Unbiased | 0.2678 | 0.2667 | -0.0011 |
| 30 | 50 | Unbiased | 0.2666 | 0.2662 | -0.0004 |
| 31 | 0 | Correlation | 0.2669 | 0.264 | -0.0029 |
| 32 | 0 | Correlation | 0.2551 | 0.256 | 0.0009 |
| 33 | 0 | Correlation | 0.2733 | 0.2719 | -0.0014 |
| 34 | 0 | Correlation | 0.2642 | 0.2652 | 0.001 |

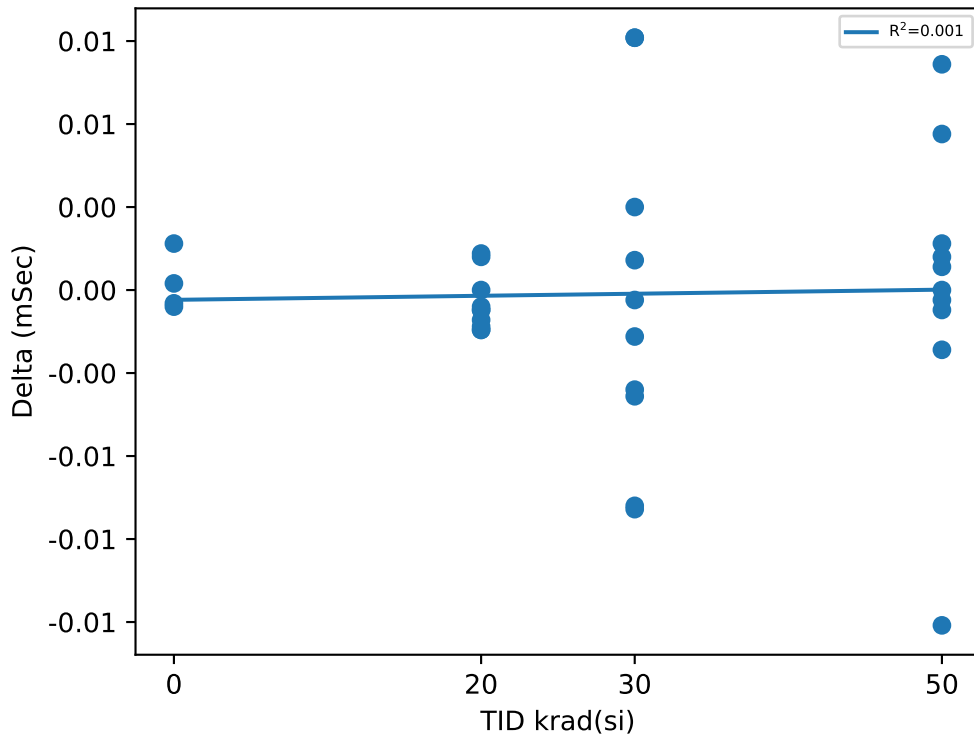## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2551 | 0.26487 | 0.2733 | 0.0075518 | 0.256 | 0.26427 | 0.2719 | 0.0065204 | -0.0029 | -0.0006 | 0.001 | 0.0018921 |
| 20 | 0.2575 | 0.26559 | 0.2712 | 0.0036741 | 0.2562 | 0.26477 | 0.2691 | 0.0034574 | -0.0032 | -0.00082 | 0.0015 | 0.0013045 |
| 30 | 0.258 | 0.26433 | 0.2668 | 0.002891 | 0.2575 | 0.26367 | 0.2658 | 0.0027693 | -0.0081 | -0.00066 | 0.0069 | 0.0042846 |
| 50 | 0.2568 | 0.26543 | 0.273 | 0.0046263 | 0.2582 | 0.26492 | 0.2721 | 0.0041066 | -0.0094 | -0.00051 | 0.0043 | 0.00384 |
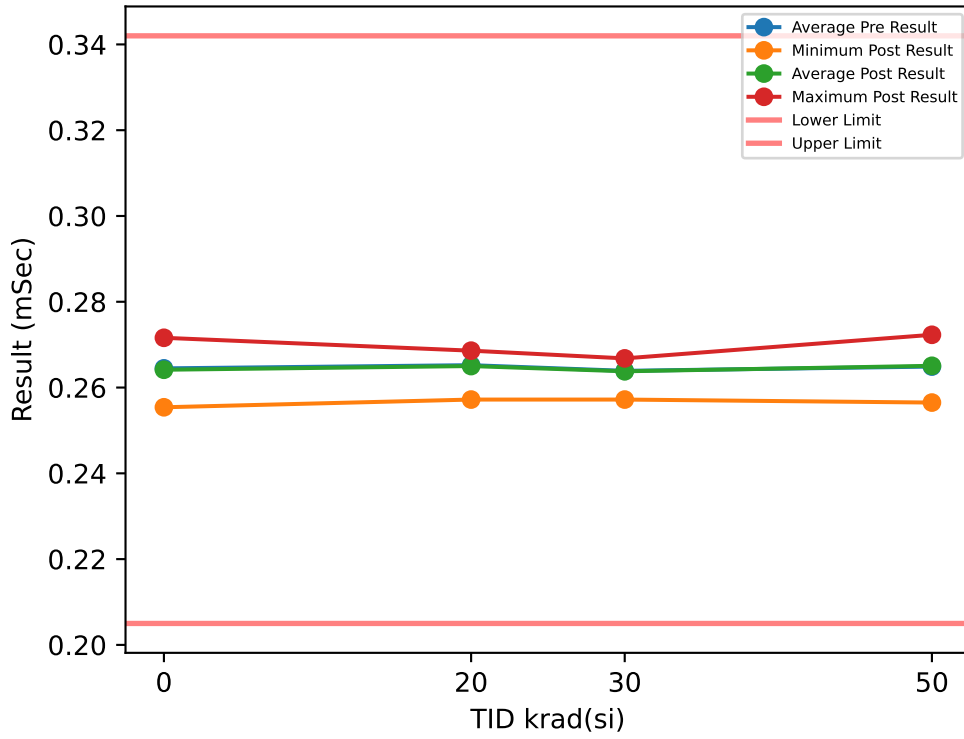
# Device Test: 17.88  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN3/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2698 | 0.2686 | -0.0012 |
| 2 | 20 | Bias | 0.2679 | 0.2678 | -0.0001 |
| 3 | 20 | Bias | 0.2663 | 0.2655 | -0.0008 |
| 4 | 20 | Bias | 0.2673 | 0.266 | -0.0013 |
| 5 | 20 | Bias | 0.2629 | 0.2642 | 0.0013 |
| 6 | 20 | Unbiased | 0.2565 | 0.2572 | 0.0007 |
| 7 | 20 | Unbiased | 0.2652 | 0.2661 | 0.0009 |
| 8 | 20 | Unbiased | 0.2657 | 0.2655 | -0.0002 |
| 9 | 20 | Unbiased | 0.267 | 0.2659 | -0.0011 |
| 10 | 20 | Unbiased | 0.2636 | 0.2633 | -0.0003 |
| 11 | 30 | Bias | 0.2577 | 0.2656 | 0.0079 |
| 12 | 30 | Bias | 0.2642 | 0.2572 | -0.007 |
| 13 | 30 | Bias | 0.266 | 0.2668 | 0.0008 |
| 14 | 30 | Bias | 0.2647 | 0.2655 | 0.0008 |
| 15 | 30 | Bias | 0.2651 | 0.2651 | 0 |
| 16 | 30 | Unbiased | 0.2656 | 0.2659 | 0.0003 |
| 17 | 30 | Unbiased | 0.2654 | 0.2631 | -0.0023 |
| 18 | 30 | Unbiased | 0.2669 | 0.2645 | -0.0024 |
| 19 | 30 | Unbiased | 0.258 | 0.2664 | 0.0084 |
| 20 | 30 | Unbiased | 0.2654 | 0.2578 | -0.0076 |
| 21 | 50 | Bias | 0.2584 | 0.265 | 0.0066 |
| 22 | 50 | Bias | 0.2568 | 0.2597 | 0.0029 |
| 23 | 50 | Bias | 0.2662 | 0.2565 | -0.0097 |
| 24 | 50 | Bias | 0.264 | 0.2674 | 0.0034 |
| 25 | 50 | Bias | 0.2736 | 0.2723 | -0.0013 |
| 26 | 50 | Unbiased | 0.2688 | 0.2684 | -0.0004 |
| 27 | 50 | Unbiased | 0.2641 | 0.264 | -0.0001 |
| 28 | 50 | Unbiased | 0.2645 | 0.2637 | -0.0008 |
| 29 | 50 | Unbiased | 0.2674 | 0.2677 | 0.0003 |
| 30 | 50 | Unbiased | 0.2651 | 0.266 | 0.0009 |
| 31 | 0 | Correlation | 0.2656 | 0.2649 | -0.0007 |
| 32 | 0 | Correlation | 0.2548 | 0.2554 | 0.0006 |
| 33 | 0 | Correlation | 0.2735 | 0.2716 | -0.0019 |
| 34 | 0 | Correlation | 0.264 | 0.2647 | 0.0007 |

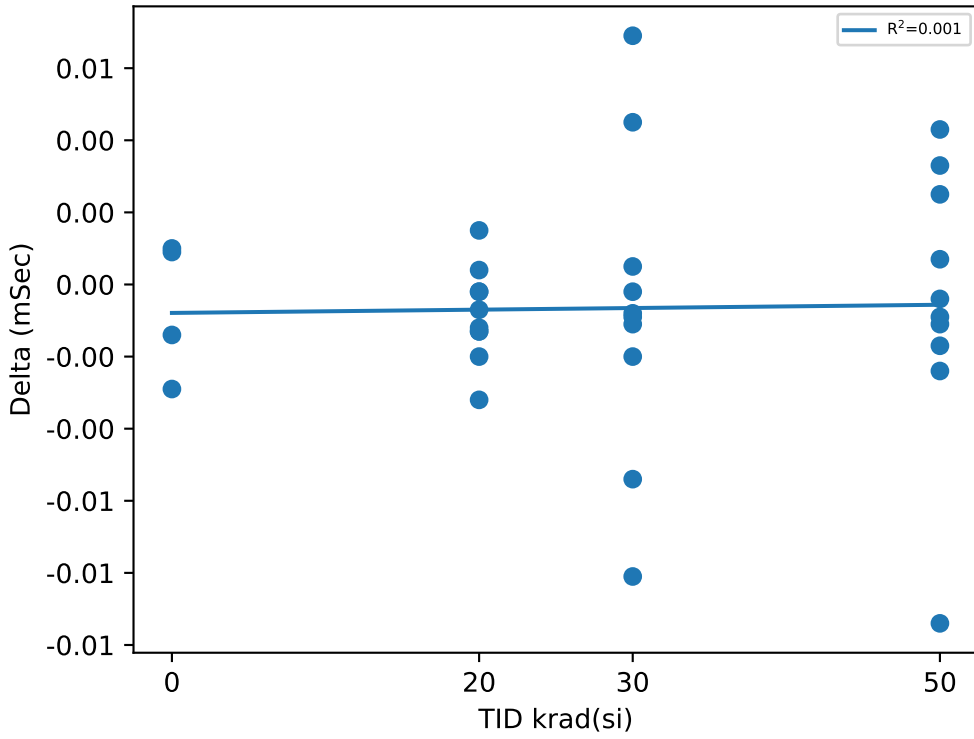## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2548 | 0.26448 | 0.2735 | 0.0076713 | 0.2554 | 0.26415 | 0.2716 | 0.0066566 | -0.0019 | -0.000325 | 0.0007 | 0.0012285 |
| 20 | 0.2565 | 0.26522 | 0.2698 | 0.0036681 | 0.2572 | 0.26501 | 0.2686 | 0.0031392 | -0.0013 | -0.00021 | 0.0013 | 0.0009231 |
| 30 | 0.2577 | 0.2639 | 0.2669 | 0.0032697 | 0.2572 | 0.26379 | 0.2668 | 0.0034726 | -0.0076 | -0.00011 | 0.0084 | 0.0052918 |
| 50 | 0.2568 | 0.26489 | 0.2736 | 0.0048114 | 0.2565 | 0.26507 | 0.2723 | 0.0044954 | -0.0097 | 0.00018 | 0.0066 | 0.0042255 |
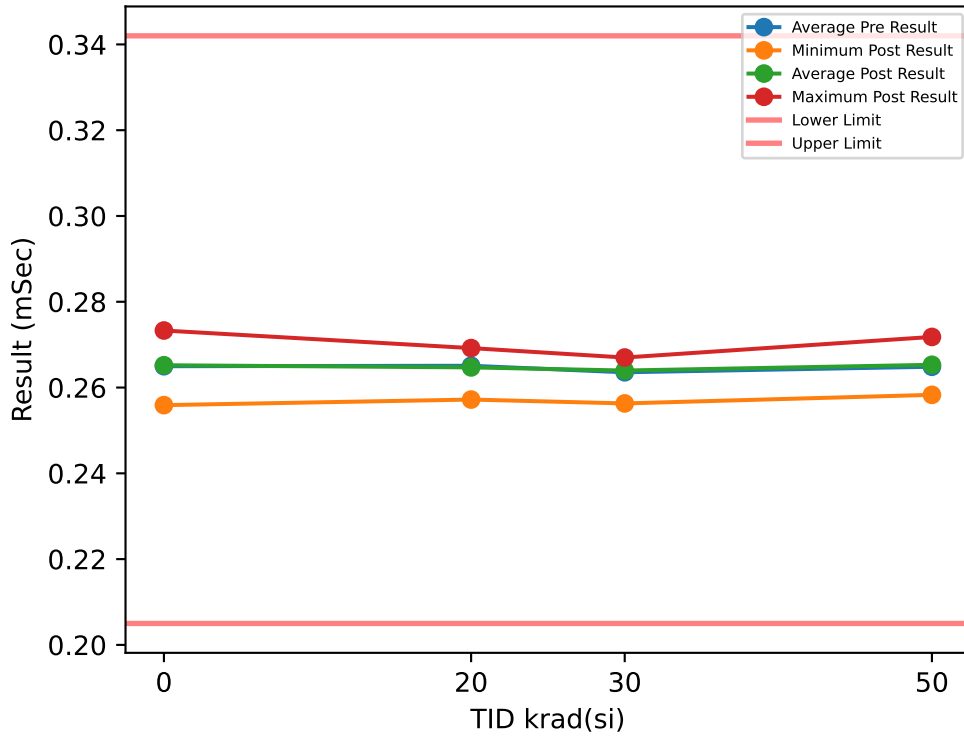
# Device Test: 17.89  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/EN4/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 0.2691 | 0.2692 | 0.0001 |
| 2 | 20 | Bias | 0.2683 | 0.2662 | -0.0021 |
| 3 | 20 | Bias | 0.2636 | 0.2646 | 0.001 |
| 4 | 20 | Bias | 0.2679 | 0.2673 | -0.0006 |
| 5 | 20 | Bias | 0.2646 | 0.2627 | -0.0019 |
| 6 | 20 | Unbiased | 0.2565 | 0.2572 | 0.0007 |
| 7 | 20 | Unbiased | 0.2652 | 0.2651 | -0.0001 |
| 8 | 20 | Unbiased | 0.2664 | 0.2659 | -0.0005 |
| 9 | 20 | Unbiased | 0.2653 | 0.2653 | 0 |
| 10 | 20 | Unbiased | 0.2639 | 0.2635 | -0.0004 |
| 11 | 30 | Bias | 0.2588 | 0.2664 | 0.0076 |
| 12 | 30 | Bias | 0.2636 | 0.259 | -0.0046 |
| 13 | 30 | Bias | 0.2669 | 0.265 | -0.0019 |
| 14 | 30 | Bias | 0.2643 | 0.2654 | 0.0011 |
| 15 | 30 | Bias | 0.2655 | 0.2658 | 0.0003 |
| 16 | 30 | Unbiased | 0.2642 | 0.267 | 0.0028 |
| 17 | 30 | Unbiased | 0.2641 | 0.2631 | -0.001 |
| 18 | 30 | Unbiased | 0.266 | 0.2648 | -0.0012 |
| 19 | 30 | Unbiased | 0.2578 | 0.2669 | 0.0091 |
| 20 | 30 | Unbiased | 0.2644 | 0.2563 | -0.0081 |
| 21 | 50 | Bias | 0.2583 | 0.2652 | 0.0069 |
| 22 | 50 | Bias | 0.2568 | 0.2593 | 0.0025 |
| 23 | 50 | Bias | 0.268 | 0.2583 | -0.0097 |
| 24 | 50 | Bias | 0.2631 | 0.2667 | 0.0036 |
| 25 | 50 | Bias | 0.2747 | 0.2718 | -0.0029 |
| 26 | 50 | Unbiased | 0.2667 | 0.269 | 0.0023 |
| 27 | 50 | Unbiased | 0.2638 | 0.2636 | -0.0002 |
| 28 | 50 | Unbiased | 0.2642 | 0.2629 | -0.0013 |
| 29 | 50 | Unbiased | 0.2677 | 0.2699 | 0.0022 |
| 30 | 50 | Unbiased | 0.2652 | 0.2663 | 0.0011 |
| 31 | 0 | Correlation | 0.2656 | 0.2664 | 0.0008 |
| 32 | 0 | Correlation | 0.2561 | 0.2559 | -0.0002 |
| 33 | 0 | Correlation | 0.2723 | 0.2733 | 0.001 |
| 34 | 0 | Correlation | 0.2659 | 0.2652 | -0.0007 |

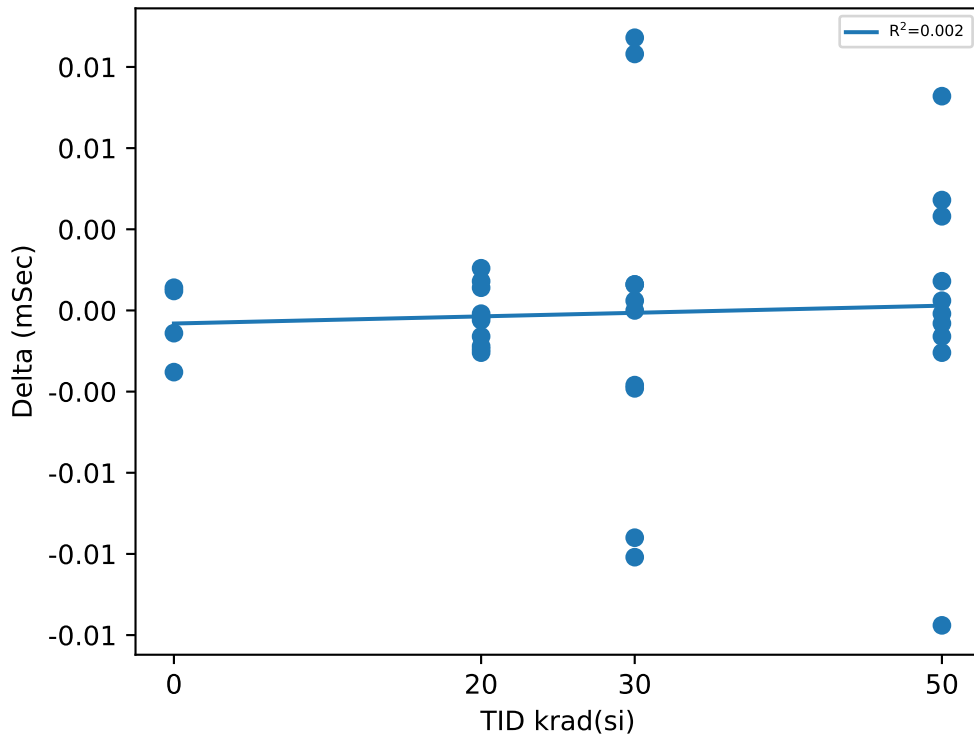## Test Statistics (mSec)
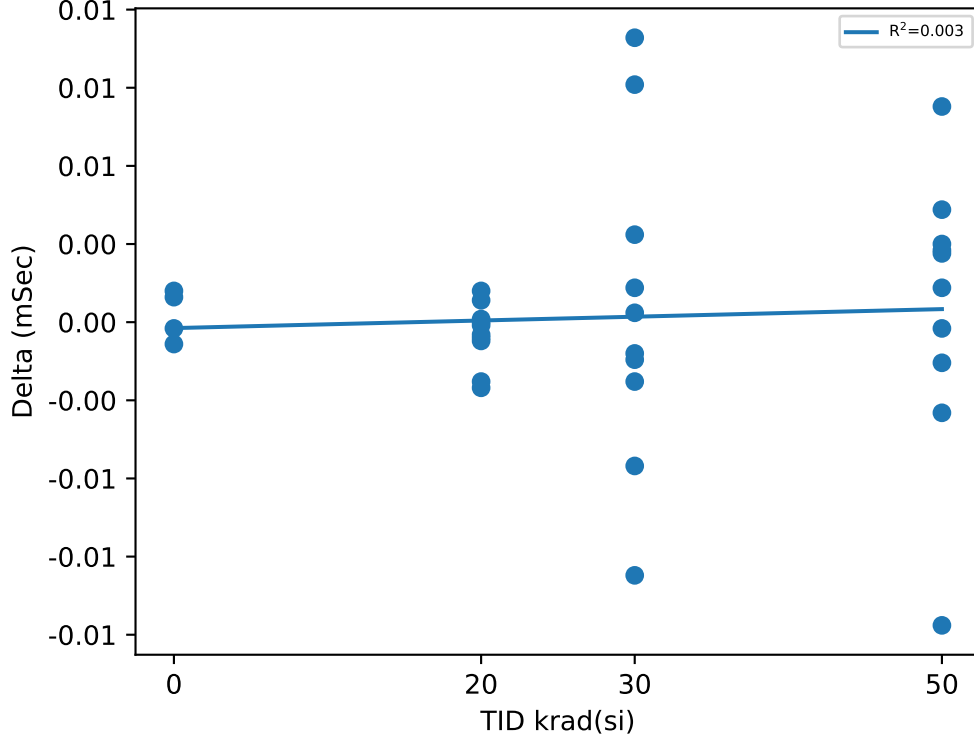
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2561 | 0.26498 | 0.2723 | 0.006675 | 0.2559 | 0.2652 | 0.2733 | 0.007154 | -0.0007 | 0.000225 | 0.001 | 0.00080984 |
| 20 | 0.2565 | 0.26508 | 0.2691 | 0.0035546 | 0.2572 | 0.2647 | 0.2692 | 0.0032132 | -0.0021 | -0.00038 | 0.001 | 0.00099197 |
| 30 | 0.2578 | 0.26356 | 0.2669 | 0.0029564 | 0.2563 | 0.26397 | 0.267 | 0.0035762 | -0.0081 | 0.00041 | 0.0091 | 0.0051731 |
| 50 | 0.2568 | 0.26485 | 0.2747 | 0.0050652 | 0.2583 | 0.2653 | 0.2718 | 0.0043934 | -0.0097 | 0.00045 | 0.0069 | 0.0044767 |

# Device Test: 17.9   TPD_EN(_DELAY|STEP_DOWN/EN3/1.6/3/0/0/0/@TPD_EN )

## TID vs Result Stats
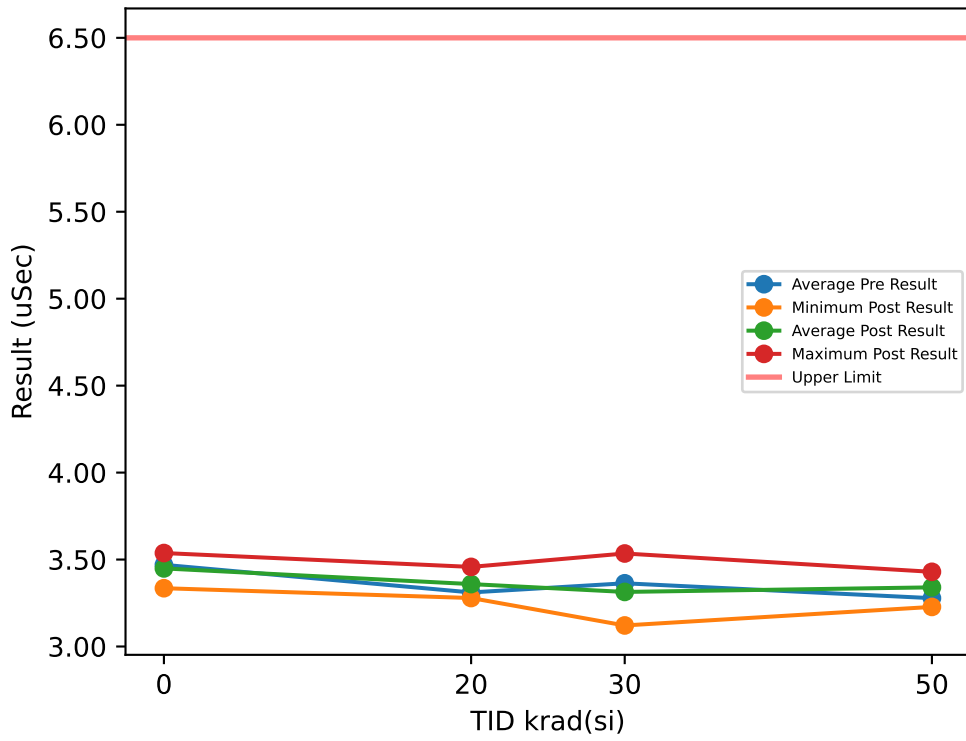


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 6.5 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 3.3041 | 3.3518 | 0.0477 |
| 2 | 20 | Bias | 3.3252 | 3.3383 | 0.0131 |
| 3 | 20 | Bias | 3.2795 | 3.3477 | 0.0682 |
| 4 | 20 | Bias | 3.3951 | 3.3692 | -0.0259 |
| 5 | 20 | Bias | 3.2482 | 3.3498 | 0.1016 |
| 6 | 20 | Unbiased | 3.5284 | 3.3703 | -0.1581 |
| 7 | 20 | Unbiased | 3.489 | 3.3683 | -0.1207 |
| 8 | 20 | Unbiased | 3.2423 | 3.2788 | 0.0365 |
| 9 | 20 | Unbiased | 3.1516 | 3.4577 | 0.3061 |
| 10 | 20 | Unbiased | 3.1457 | 3.357 | 0.2113 |
| 11 | 30 | Bias | 3.4018 | 3.2969 | -0.1049 |
| 12 | 30 | Bias | 3.1401 | 3.2334 | 0.0933 |
| 13 | 30 | Bias | 3.2125 | 3.121 | -0.0915 |
| 14 | 30 | Bias | 3.5005 | 3.125 | -0.3755 |
| 15 | 30 | Bias | 3.3178 | 3.4318 | 0.114 |
| 16 | 30 | Unbiased | 3.1917 | 3.3951 | 0.2034 |
| 17 | 30 | Unbiased | 3.5789 | 3.2656 | -0.3133 |
| 18 | 30 | Unbiased | 3.1849 | 3.5348 | 0.3499 |
| 19 | 30 | Unbiased | 3.5861 | 3.5341 | -0.052 |
| 20 | 30 | Unbiased | 3.5204 | 3.2002 | -0.3202 |
| 21 | 50 | Bias | 3.3008 | 3.2579 | -0.0429 |
| 22 | 50 | Bias | 3.5441 | 3.4294 | -0.1147 |
| 23 | 50 | Bias | 3.3713 | 3.3049 | -0.0664 |
| 24 | 50 | Bias | 3.335 | 3.3913 | 0.0563 |
| 25 | 50 | Bias | 3.3617 | 3.3134 | -0.0483 |
| 26 | 50 | Unbiased | 3.37 | 3.3848 | 0.0148 |
| 27 | 50 | Unbiased | 3.0544 | 3.2276 | 0.1732 |
| 28 | 50 | Unbiased | 3.0106 | 3.3306 | 0.32 |
| 29 | 50 | Unbiased | 3.3522 | 3.4132 | 0.061 |
| 30 | 50 | Unbiased | 3.0795 | 3.3479 | 0.2684 |
| 31 | 0 | Correlation | 3.5616 | 3.5374 | -0.0242 |
| 32 | 0 | Correlation | 3.4754 | 3.3352 | -0.1402 |
| 33 | 0 | Correlation | 3.427 | 3.4706 | 0.0436 |
| 34 | 0 | Correlation | 3.4146 | 3.4528 | 0.0382 |

## Test Statistics (uSec)
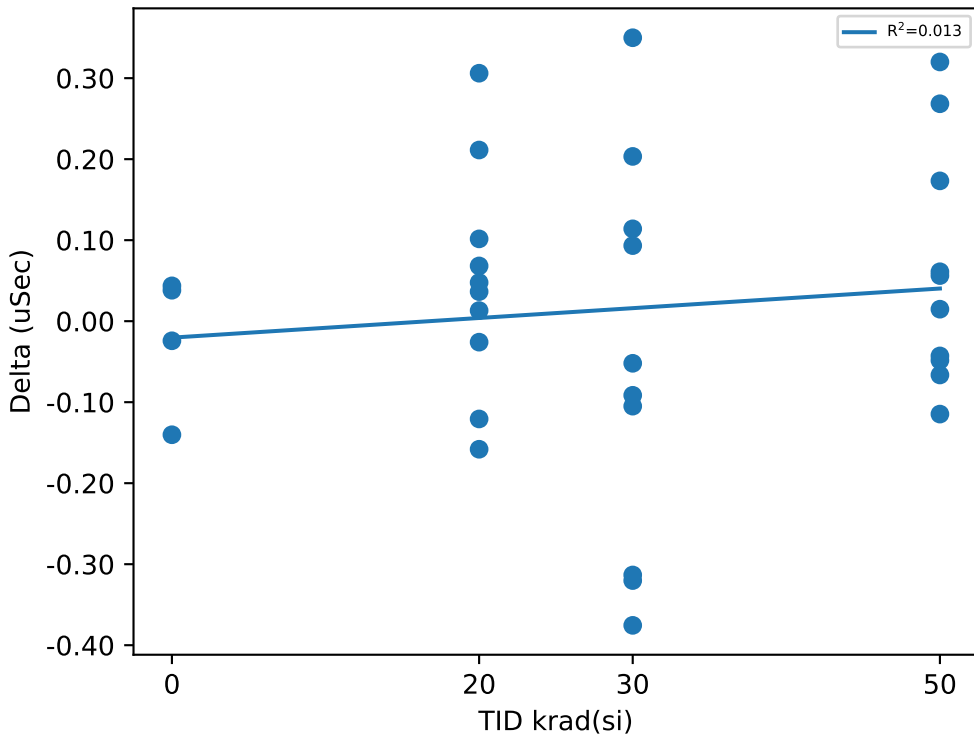
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.4146 | 3.4697 | 3.5616 | 0.066677 | 3.3352 | 3.449 | 3.5374 | 0.084155 | -0.1402 | -0.02065 | 0.0436 | 0.085433 |
| 20 | 3.1457 | 3.3109 | 3.5284 | 0.12852 | 3.2788 | 3.3589 | 3.4577 | 0.043702 | -0.1581 | 0.04798 | 0.3061 | 0.13917 |
| 30 | 3.1401 | 3.3635 | 3.5861 | 0.17544 | 3.121 | 3.3138 | 3.5348 | 0.15373 | -0.3755 | -0.04968 | 0.3499 | 0.24143 |
| 50 | 3.0106 | 3.278 | 3.5441 | 0.17165 | 3.2276 | 3.3401 | 3.4294 | 0.06621 | -0.1147 | 0.06214 | 0.32 | 0.14707 |
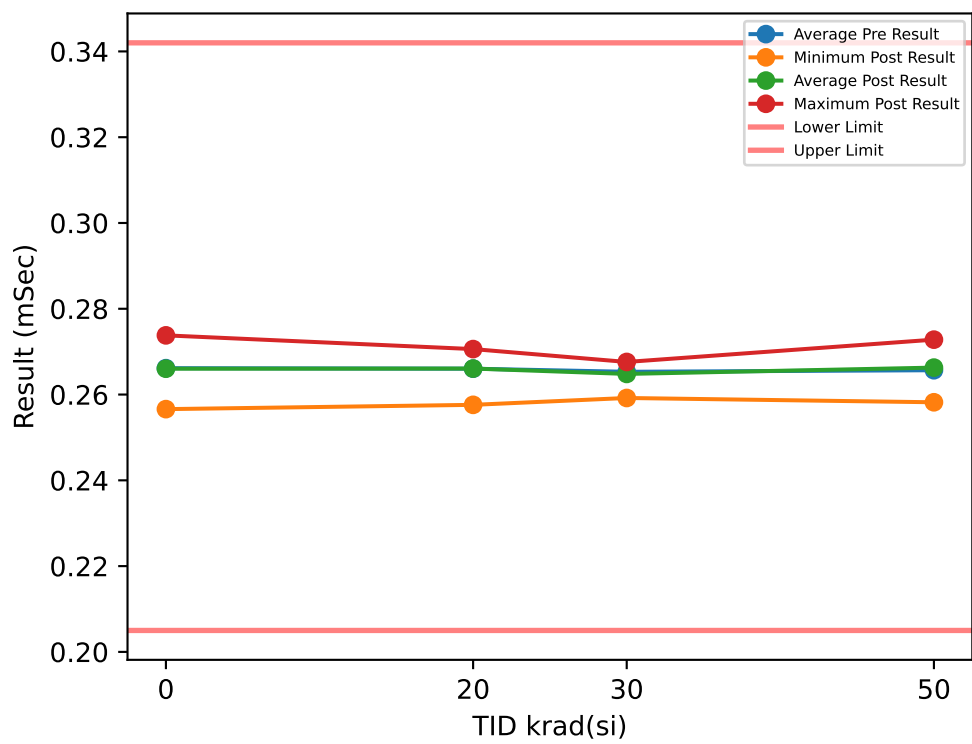
# Device Test: 17.90  DLY_TMR_10KOHM(_DELAY|STEP_DOWN/SEQ_DONE/1.6/14/10.5K/0/0/@DLY_TMR_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.205, Upper Limit = 0.342 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2687 | 0.2706 | 0.0019 |
| 2 | 20 | Bias | 0.27 | 0.2687 | -0.0013 |
| 3 | 20 | Bias | 0.2661 | 0.2685 | 0.0024 |
| 4 | 20 | Bias | 0.2684 | 0.2677 | -0.0007 |
| 5 | 20 | Bias | 0.2639 | 0.2665 | 0.0026 |
| 6 | 20 | Unbiased | 0.2573 | 0.2576 | 0.0003 |
| 7 | 20 | Unbiased | 0.2669 | 0.2645 | -0.0024 |
| 8 | 20 | Unbiased | 0.2674 | 0.2661 | -0.0013 |
| 9 | 20 | Unbiased | 0.2668 | 0.2669 | 0.0001 |
| 10 | 20 | Unbiased | 0.2648 | 0.2635 | -0.0013 |
| 11 | 30 | Bias | 0.2609 | 0.2658 | 0.0049 |
| 12 | 30 | Bias | 0.2648 | 0.26 | -0.0048 |
| 13 | 30 | Bias | 0.2671 | 0.2657 | -0.0014 |
| 14 | 30 | Bias | 0.2669 | 0.2676 | 0.0007 |
| 15 | 30 | Bias | 0.2679 | 0.2669 | -0.001 |
| 16 | 30 | Unbiased | 0.2673 | 0.2658 | -0.0015 |
| 17 | 30 | Unbiased | 0.2666 | 0.2645 | -0.0021 |
| 18 | 30 | Unbiased | 0.2665 | 0.2664 | -0.0001 |
| 19 | 30 | Unbiased | 0.2594 | 0.2662 | 0.0068 |
| 20 | 30 | Unbiased | 0.2657 | 0.2592 | -0.0065 |
| 21 | 50 | Bias | 0.2586 | 0.2667 | 0.0081 |
| 22 | 50 | Bias | 0.257 | 0.2611 | 0.0041 |
| 23 | 50 | Bias | 0.2664 | 0.2582 | -0.0082 |
| 24 | 50 | Bias | 0.2652 | 0.267 | 0.0018 |
| 25 | 50 | Bias | 0.2742 | 0.2728 | -0.0014 |
| 26 | 50 | Unbiased | 0.2693 | 0.2688 | -0.0005 |
| 27 | 50 | Unbiased | 0.2641 | 0.2655 | 0.0014 |
| 28 | 50 | Unbiased | 0.267 | 0.2661 | -0.0009 |
| 29 | 50 | Unbiased | 0.2674 | 0.269 | 0.0016 |
| 30 | 50 | Unbiased | 0.2675 | 0.2676 | 0.0001 |
| 31 | 0 | Correlation | 0.2673 | 0.2668 | -0.0005 |
| 32 | 0 | Correlation | 0.258 | 0.2566 | -0.0014 |
| 33 | 0 | Correlation | 0.2733 | 0.2738 | 0.0005 |
| 34 | 0 | Correlation | 0.266 | 0.2669 | 0.0009 |

## Test Statistics (mSec)
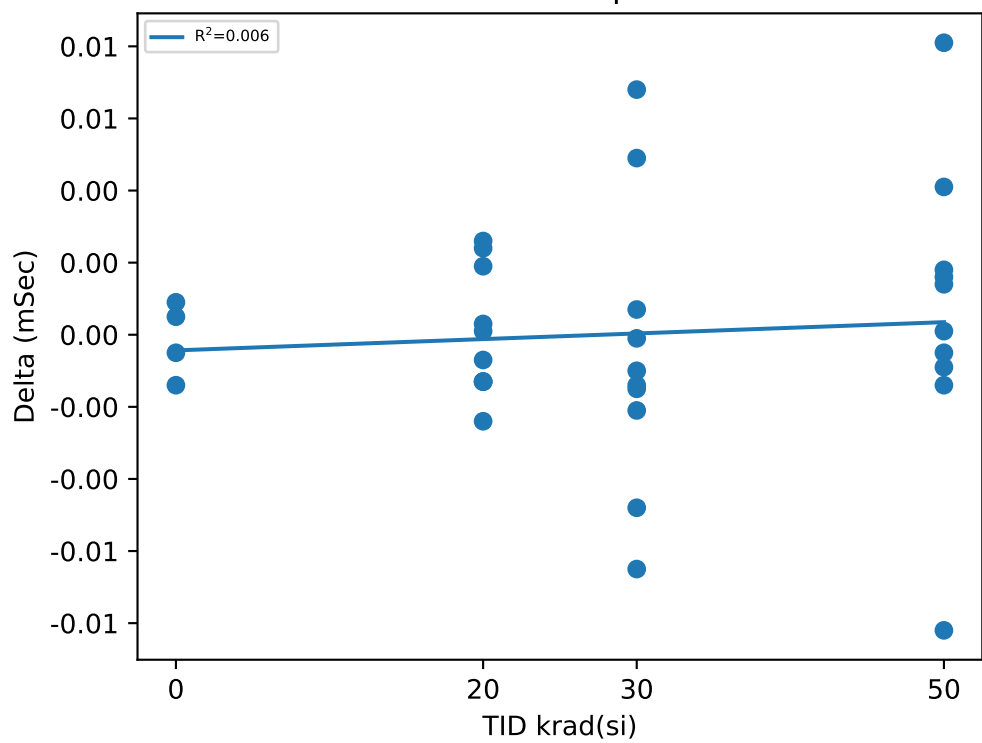
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.258 | 0.26615 | 0.2733 | 0.0062952 | 0.2566 | 0.26603 | 0.2738 | 0.0070863 | -0.0014 | -0.000125 | 0.0009 | 0.001034 |
| 20 | 0.2573 | 0.26603 | 0.27 | 0.003559 | 0.2576 | 0.26606 | 0.2706 | 0.0036161 | -0.0024 | 3e-05 | 0.0026 | 0.0017493 |
| 30 | 0.2594 | 0.26531 | 0.2679 | 0.0028726 | 0.2592 | 0.26481 | 0.2676 | 0.0028688 | -0.0065 | -0.0005 | 0.0068 | 0.0039883 |
| 50 | 0.257 | 0.26567 | 0.2742 | 0.0049713 | 0.2582 | 0.26628 | 0.2728 | 0.0041022 | -0.0082 | 0.00061 | 0.0081 | 0.004173 |
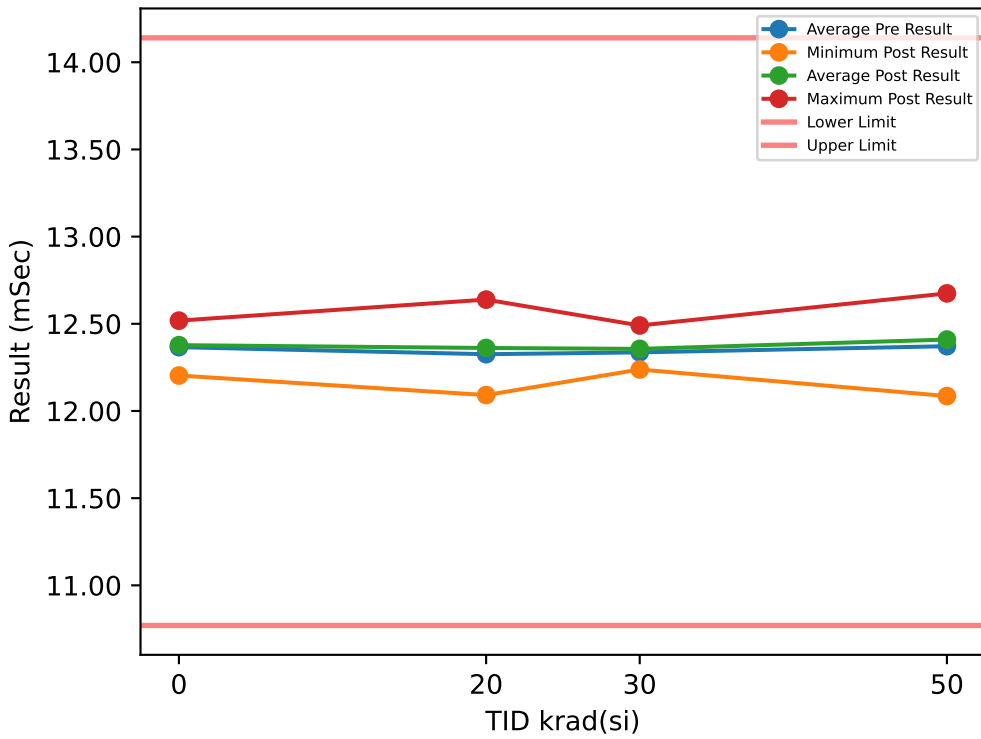
# Device Test: 17.91  DLY_TMR_500KOHM(_DELAY|STEP_UP/EN1/1.6/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.219 | 12.324 | 0.105 |
| 2 | 20 | Bias | 12.455 | 12.577 | 0.1219 |
| 3 | 20 | Bias | 12.039 | 12.091 | 0.0523 |
| 4 | 20 | Bias | 12.493 | 12.528 | 0.0358 |
| 5 | 20 | Bias | 12.511 | 12.389 | -0.1229 |
| 6 | 20 | Unbiased | 12.07 | 12.162 | 0.0921 |
| 7 | 20 | Unbiased | 12.283 | 12.284 | 0.0015 |
| 8 | 20 | Unbiased | 12.392 | 12.358 | -0.0335 |
| 9 | 20 | Unbiased | 12.595 | 12.639 | 0.0434 |
| 10 | 20 | Unbiased | 12.199 | 12.261 | 0.062 |
| 11 | 30 | Bias | 12.147 | 12.392 | 0.2452 |
| 12 | 30 | Bias | 12.236 | 12.331 | 0.0947 |
| 13 | 30 | Bias | 12.443 | 12.402 | -0.0405 |
| 14 | 30 | Bias | 12.237 | 12.49 | 0.2531 |
| 15 | 30 | Bias | 12.454 | 12.314 | -0.1396 |
| 16 | 30 | Unbiased | 12.485 | 12.327 | -0.1577 |
| 17 | 30 | Unbiased | 12.554 | 12.334 | -0.2197 |
| 18 | 30 | Unbiased | 12.25 | 12.453 | 0.2025 |
| 19 | 30 | Unbiased | 12.284 | 12.238 | -0.0465 |
| 20 | 30 | Unbiased | 12.27 | 12.28 | 0.0101 |
| 21 | 50 | Bias | 12.202 | 12.266 | 0.0638 |
| 22 | 50 | Bias | 12.21 | 12.086 | -0.1241 |
| 23 | 50 | Bias | 12.683 | 12.241 | -0.4418 |
| 24 | 50 | Bias | 12.196 | 12.511 | 0.3152 |
| 25 | 50 | Bias | 12.409 | 12.479 | 0.0698 |
| 26 | 50 | Unbiased | 12.577 | 12.674 | 0.0971 |
| 27 | 50 | Unbiased | 12.269 | 12.22 | -0.049 |
| 28 | 50 | Unbiased | 12.408 | 12.538 | 0.1293 |
| 29 | 50 | Unbiased | 12.475 | 12.541 | 0.0666 |
| 30 | 50 | Unbiased | 12.286 | 12.539 | 0.2538 |
| 31 | 0 | Correlation | 12.383 | 12.39 | 0.0063 |
| 32 | 0 | Correlation | 12.06 | 12.203 | 0.1437 |
| 33 | 0 | Correlation | 12.673 | 12.518 | -0.1548 |
| 34 | 0 | Correlation | 12.348 | 12.399 | 0.0512 |

## Test Statistics (mSec)
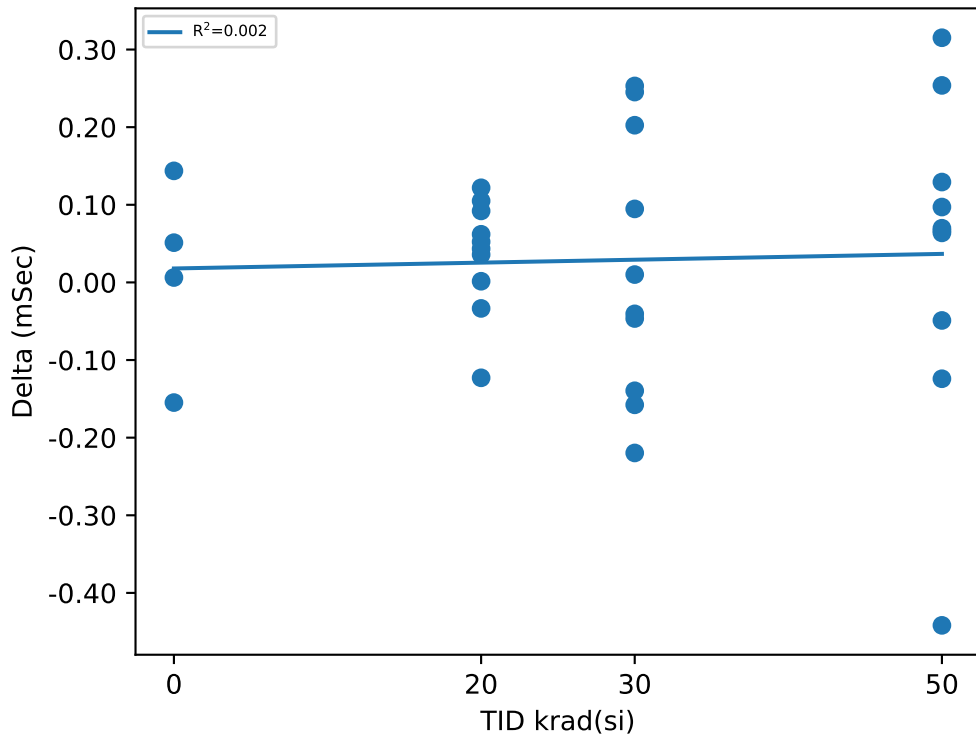
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.06 | 12.366 | 12.673 | 0.25075 | 12.203 | 12.378 | 12.518 | 0.13001 | -0.1548 | 0.0116 | 0.1437 | 0.12481 |
| 20 | 12.039 | 12.326 | 12.595 | 0.19238 | 12.091 | 12.361 | 12.639 | 0.17705 | -0.1229 | 0.03576 | 0.1219 | 0.072689 |
| 30 | 12.147 | 12.336 | 12.554 | 0.13529 | 12.238 | 12.356 | 12.49 | 0.077643 | -0.2197 | 0.02016 | 0.2531 | 0.17212 |
| 50 | 12.196 | 12.372 | 12.683 | 0.16871 | 12.086 | 12.41 | 12.674 | 0.19026 | -0.4418 | 0.03807 | 0.3152 | 0.21129 |
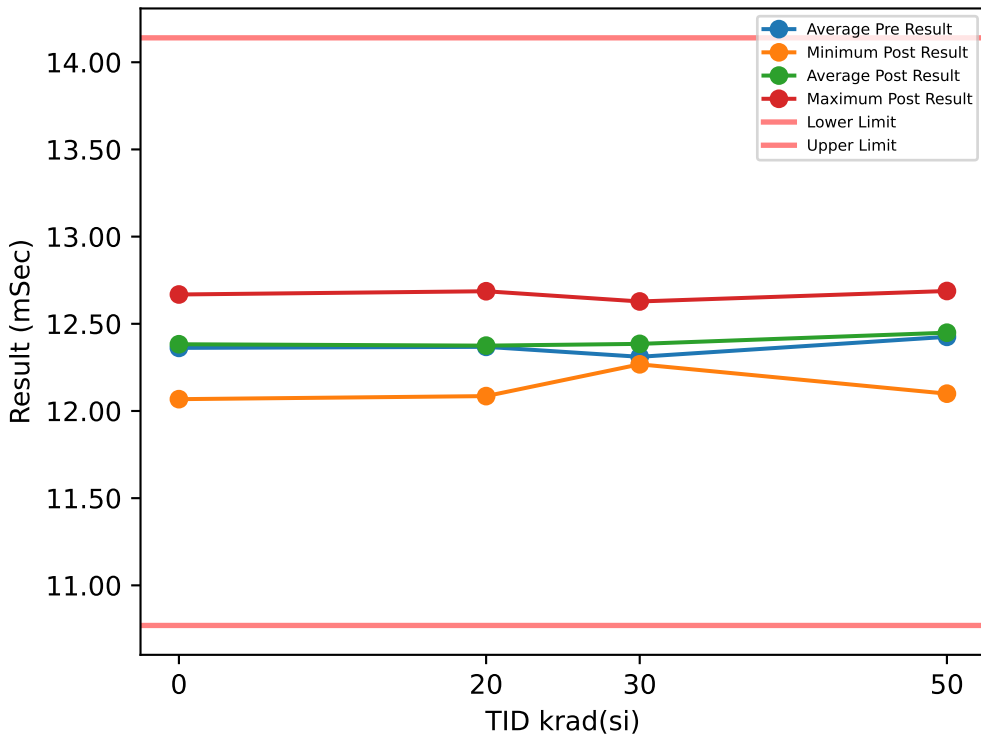
# Device Test: 17.92  DLY_TMR_500KOHM(_DELAY|STEP_UP/EN2/1.6/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.34 | 12.212 | -0.1278 |
| 2 | 20 | Bias | 12.568 | 12.551 | -0.0169 |
| 3 | 20 | Bias | 12.018 | 12.236 | 0.2188 |
| 4 | 20 | Bias | 12.495 | 12.687 | 0.1921 |
| 5 | 20 | Bias | 12.528 | 12.528 | -0.0005 |
| 6 | 20 | Unbiased | 12.207 | 12.085 | -0.1214 |
| 7 | 20 | Unbiased | 12.428 | 12.404 | -0.0245 |
| 8 | 20 | Unbiased | 12.388 | 12.326 | -0.0622 |
| 9 | 20 | Unbiased | 12.615 | 12.62 | 0.0056 |
| 10 | 20 | Unbiased | 12.093 | 12.099 | 0.0068 |
| 11 | 30 | Bias | 12.153 | 12.275 | 0.1219 |
| 12 | 30 | Bias | 12.35 | 12.329 | -0.0217 |
| 13 | 30 | Bias | 12.448 | 12.389 | -0.0588 |
| 14 | 30 | Bias | 12.111 | 12.476 | 0.3654 |
| 15 | 30 | Bias | 12.457 | 12.295 | -0.1628 |
| 16 | 30 | Unbiased | 12.478 | 12.458 | -0.0202 |
| 17 | 30 | Unbiased | 12.422 | 12.355 | -0.0668 |
| 18 | 30 | Unbiased | 12.253 | 12.628 | 0.3747 |
| 19 | 30 | Unbiased | 12.165 | 12.376 | 0.2113 |
| 20 | 30 | Unbiased | 12.27 | 12.268 | -0.0022 |
| 21 | 50 | Bias | 12.046 | 12.427 | 0.3805 |
| 22 | 50 | Bias | 12.047 | 12.099 | 0.0525 |
| 23 | 50 | Bias | 12.68 | 12.234 | -0.4466 |
| 24 | 50 | Bias | 12.329 | 12.639 | 0.3108 |
| 25 | 50 | Bias | 12.558 | 12.492 | -0.066 |
| 26 | 50 | Unbiased | 12.566 | 12.668 | 0.1018 |
| 27 | 50 | Unbiased | 12.402 | 12.328 | -0.0734 |
| 28 | 50 | Unbiased | 12.55 | 12.395 | -0.1546 |
| 29 | 50 | Unbiased | 12.645 | 12.688 | 0.0432 |
| 30 | 50 | Unbiased | 12.43 | 12.52 | 0.0898 |
| 31 | 0 | Correlation | 12.273 | 12.385 | 0.1122 |
| 32 | 0 | Correlation | 12.172 | 12.068 | -0.1042 |
| 33 | 0 | Correlation | 12.508 | 12.668 | 0.1596 |
| 34 | 0 | Correlation | 12.494 | 12.41 | -0.0843 |

## Test Statistics (mSec)
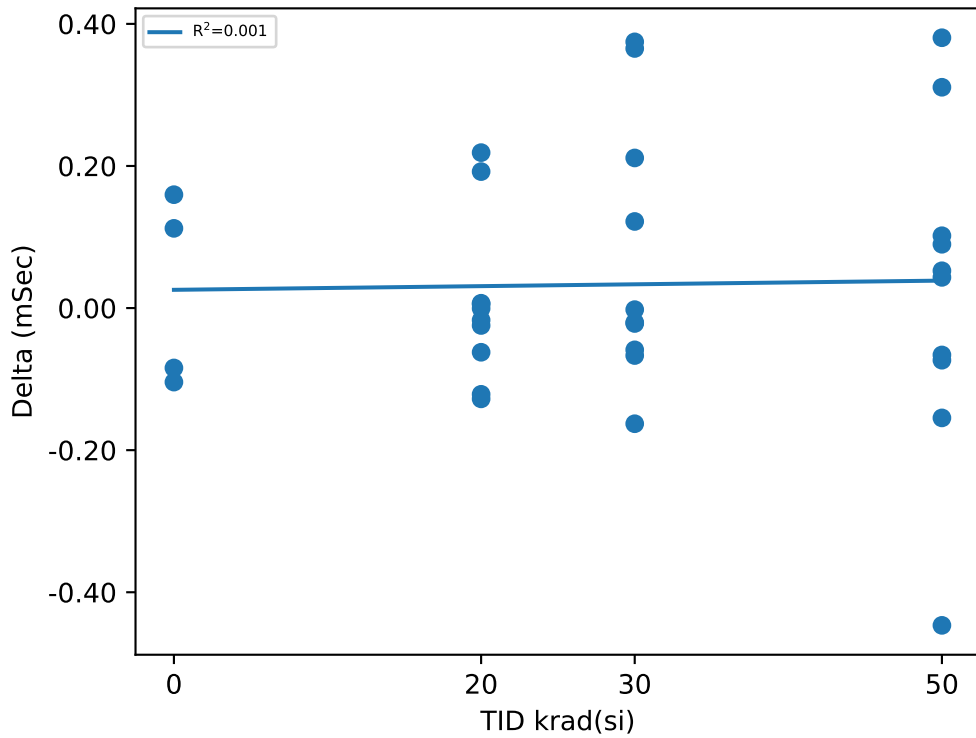
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.172 | 12.362 | 12.508 | 0.16636 | 12.068 | 12.383 | 12.668 | 0.24588 | -0.1042 | 0.020825 | 0.1596 | 0.13452 |
| 20 | 12.018 | 12.368 | 12.615 | 0.20332 | 12.085 | 12.375 | 12.687 | 0.2162 | -0.1278 | 0.007 | 0.2188 | 0.11556 |
| 30 | 12.111 | 12.311 | 12.478 | 0.13875 | 12.268 | 12.385 | 12.628 | 0.11101 | -0.1628 | 0.07408 | 0.3747 | 0.18674 |
| 50 | 12.046 | 12.425 | 12.68 | 0.2268 | 12.099 | 12.449 | 12.688 | 0.19283 | -0.4466 | 0.0238 | 0.3805 | 0.23378 |
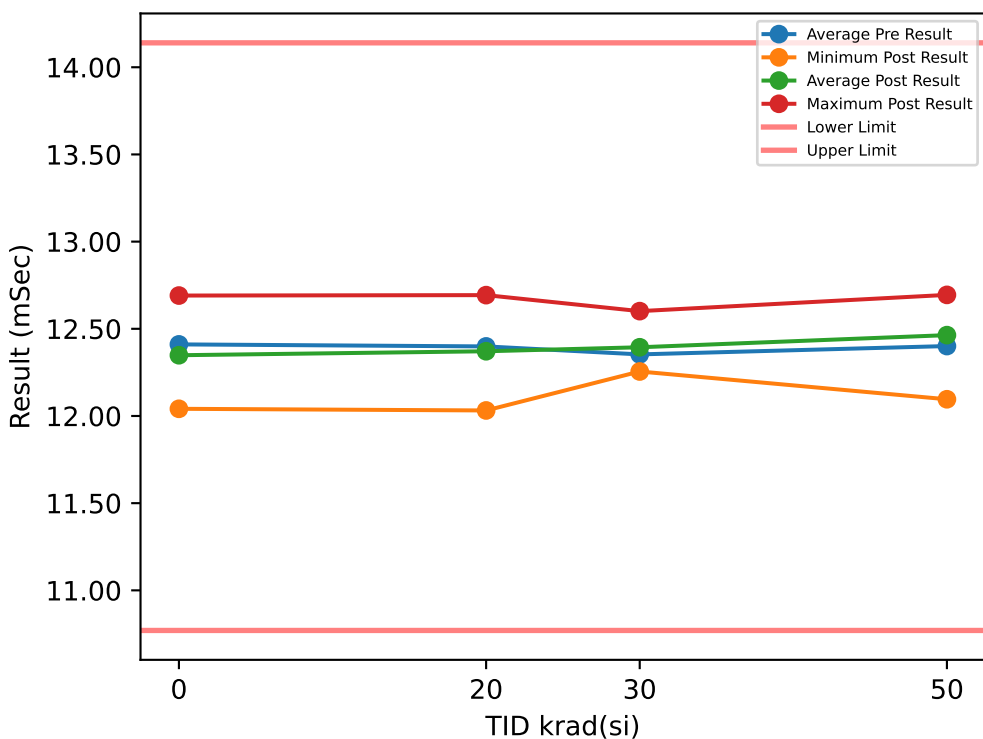
# Device Test: 17.93  DLY_TMR_500KOHM(_DELAY|STEP_UP/EN3/1.6/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.354 | 12.323 | -0.0314 |
| 2 | 20 | Bias | 12.605 | 12.56 | -0.0446 |
| 3 | 20 | Bias | 12.145 | 12.202 | 0.0571 |
| 4 | 20 | Bias | 12.496 | 12.693 | 0.1968 |
| 5 | 20 | Bias | 12.528 | 12.529 | 0.0017 |
| 6 | 20 | Unbiased | 12.201 | 12.032 | -0.1697 |
| 7 | 20 | Unbiased | 12.431 | 12.286 | -0.1447 |
| 8 | 20 | Unbiased | 12.394 | 12.335 | -0.0589 |
| 9 | 20 | Unbiased | 12.637 | 12.627 | -0.0099 |
| 10 | 20 | Unbiased | 12.199 | 12.124 | -0.0744 |
| 11 | 30 | Bias | 12.153 | 12.404 | 0.2505 |
| 12 | 30 | Bias | 12.35 | 12.338 | -0.0122 |
| 13 | 30 | Bias | 12.462 | 12.255 | -0.2072 |
| 14 | 30 | Bias | 12.106 | 12.453 | 0.347 |
| 15 | 30 | Bias | 12.458 | 12.294 | -0.1641 |
| 16 | 30 | Unbiased | 12.495 | 12.457 | -0.0376 |
| 17 | 30 | Unbiased | 12.562 | 12.5 | -0.0614 |
| 18 | 30 | Unbiased | 12.243 | 12.601 | 0.3583 |
| 19 | 30 | Unbiased | 12.293 | 12.383 | 0.0906 |
| 20 | 30 | Unbiased | 12.411 | 12.255 | -0.1553 |
| 21 | 50 | Bias | 12.063 | 12.421 | 0.3582 |
| 22 | 50 | Bias | 12.071 | 12.096 | 0.0249 |
| 23 | 50 | Bias | 12.661 | 12.236 | -0.425 |
| 24 | 50 | Bias | 12.216 | 12.68 | 0.464 |
| 25 | 50 | Bias | 12.555 | 12.603 | 0.0473 |
| 26 | 50 | Unbiased | 12.602 | 12.651 | 0.0485 |
| 27 | 50 | Unbiased | 12.383 | 12.229 | -0.1539 |
| 28 | 50 | Unbiased | 12.567 | 12.515 | -0.0526 |
| 29 | 50 | Unbiased | 12.463 | 12.694 | 0.2316 |
| 30 | 50 | Unbiased | 12.428 | 12.512 | 0.0834 |
| 31 | 0 | Correlation | 12.408 | 12.27 | -0.1381 |
| 32 | 0 | Correlation | 12.063 | 12.041 | -0.0215 |
| 33 | 0 | Correlation | 12.702 | 12.691 | -0.0114 |
| 34 | 0 | Correlation | 12.47 | 12.392 | -0.0778 |

## Test Statistics (mSec)
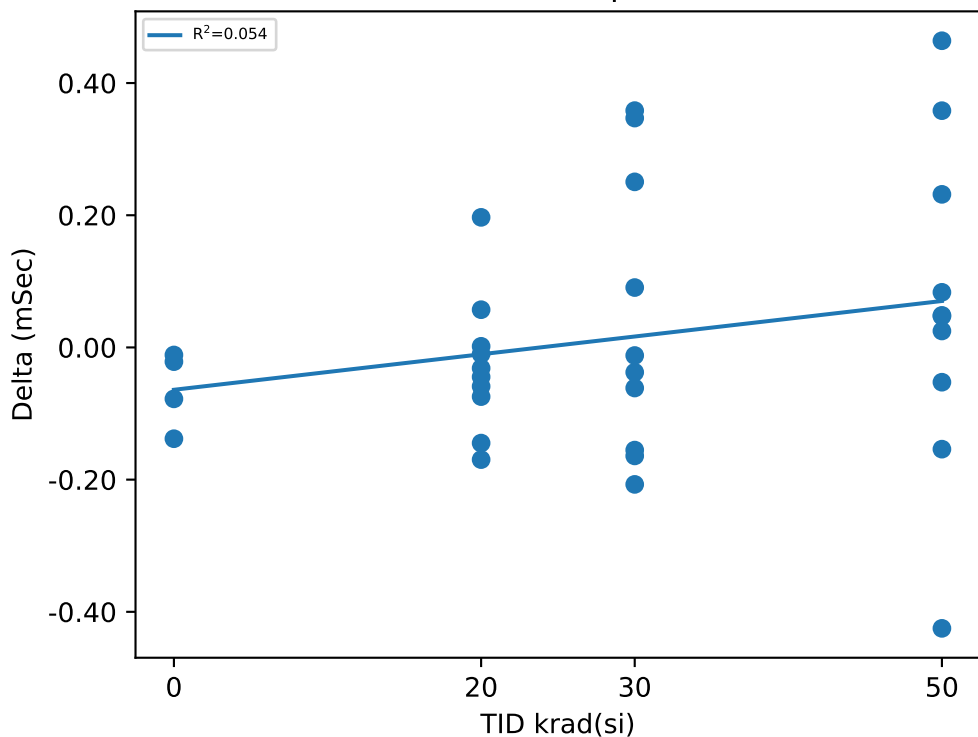
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.063 | 12.411 | 12.702 | 0.26426 | 12.041 | 12.348 | 12.691 | 0.27056 | -0.1381 | -0.0622 | -0.0114 | 0.058427 |
| 20 | 12.145 | 12.399 | 12.637 | 0.17372 | 12.032 | 12.371 | 12.693 | 0.22246 | -0.1697 | -0.0278 | 0.1968 | 0.10332 |
| 30 | 12.106 | 12.353 | 12.562 | 0.15145 | 12.255 | 12.394 | 12.601 | 0.11233 | -0.2072 | 0.04086 | 0.3583 | 0.21144 |
| 50 | 12.063 | 12.401 | 12.661 | 0.21654 | 12.096 | 12.464 | 12.694 | 0.21166 | -0.425 | 0.06264 | 0.464 | 0.25326 |
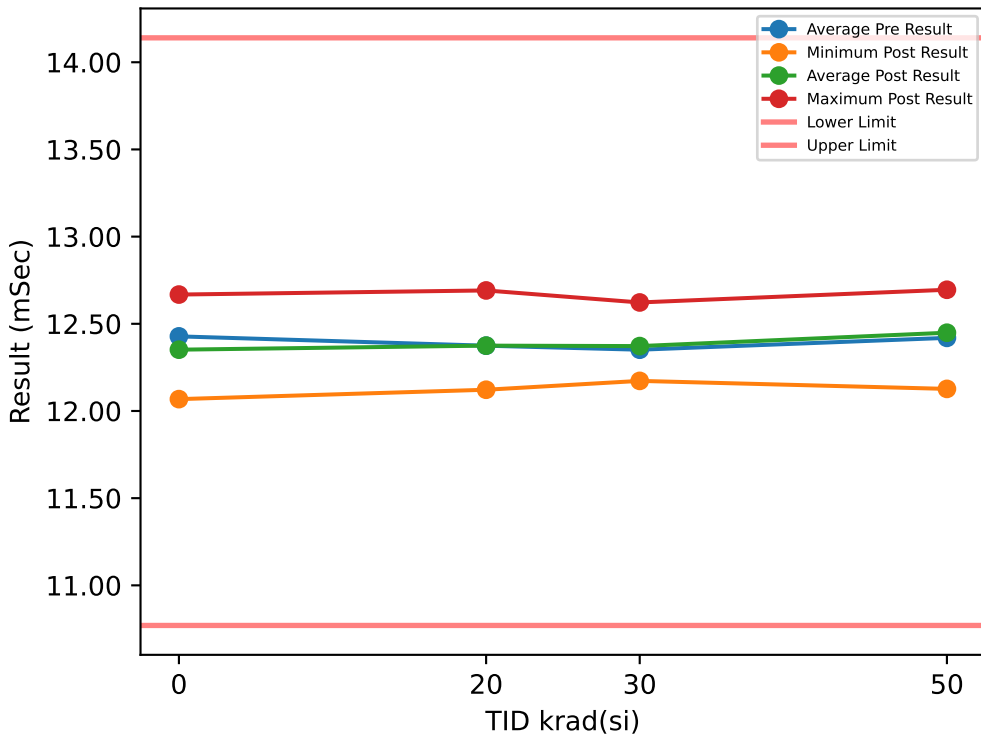
# Device Test: 17.94  DLY_TMR_500KOHM(_DELAY|STEP_UP/EN4/1.6/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.342 | 12.318 | -0.0238 |
| 2 | 20 | Bias | 12.606 | 12.562 | -0.0436 |
| 3 | 20 | Bias | 12.146 | 12.236 | 0.0898 |
| 4 | 20 | Bias | 12.495 | 12.691 | 0.1958 |
| 5 | 20 | Bias | 12.513 | 12.399 | -0.1142 |
| 6 | 20 | Unbiased | 12.209 | 12.169 | -0.0394 |
| 7 | 20 | Unbiased | 12.295 | 12.404 | 0.109 |
| 8 | 20 | Unbiased | 12.387 | 12.219 | -0.1678 |
| 9 | 20 | Unbiased | 12.546 | 12.628 | 0.082 |
| 10 | 20 | Unbiased | 12.206 | 12.122 | -0.0839 |
| 11 | 30 | Bias | 12.156 | 12.383 | 0.2268 |
| 12 | 30 | Bias | 12.356 | 12.21 | -0.1463 |
| 13 | 30 | Bias | 12.455 | 12.39 | -0.0649 |
| 14 | 30 | Bias | 12.227 | 12.344 | 0.1172 |
| 15 | 30 | Bias | 12.459 | 12.173 | -0.2862 |
| 16 | 30 | Unbiased | 12.495 | 12.46 | -0.0356 |
| 17 | 30 | Unbiased | 12.543 | 12.498 | -0.0447 |
| 18 | 30 | Unbiased | 12.365 | 12.622 | 0.2578 |
| 19 | 30 | Unbiased | 12.163 | 12.372 | 0.2091 |
| 20 | 30 | Unbiased | 12.295 | 12.27 | -0.0248 |
| 21 | 50 | Bias | 12.065 | 12.427 | 0.3626 |
| 22 | 50 | Bias | 12.079 | 12.219 | 0.14 |
| 23 | 50 | Bias | 12.685 | 12.127 | -0.5583 |
| 24 | 50 | Bias | 12.33 | 12.487 | 0.1569 |
| 25 | 50 | Bias | 12.58 | 12.632 | 0.052 |
| 26 | 50 | Unbiased | 12.603 | 12.659 | 0.0558 |
| 27 | 50 | Unbiased | 12.404 | 12.329 | -0.0751 |
| 28 | 50 | Unbiased | 12.567 | 12.396 | -0.1719 |
| 29 | 50 | Unbiased | 12.463 | 12.695 | 0.2322 |
| 30 | 50 | Unbiased | 12.418 | 12.519 | 0.1013 |
| 31 | 0 | Correlation | 12.386 | 12.388 | 0.0015 |
| 32 | 0 | Correlation | 12.168 | 12.068 | -0.0996 |
| 33 | 0 | Correlation | 12.694 | 12.668 | -0.0263 |
| 34 | 0 | Correlation | 12.464 | 12.283 | -0.181 |

## Test Statistics (mSec)
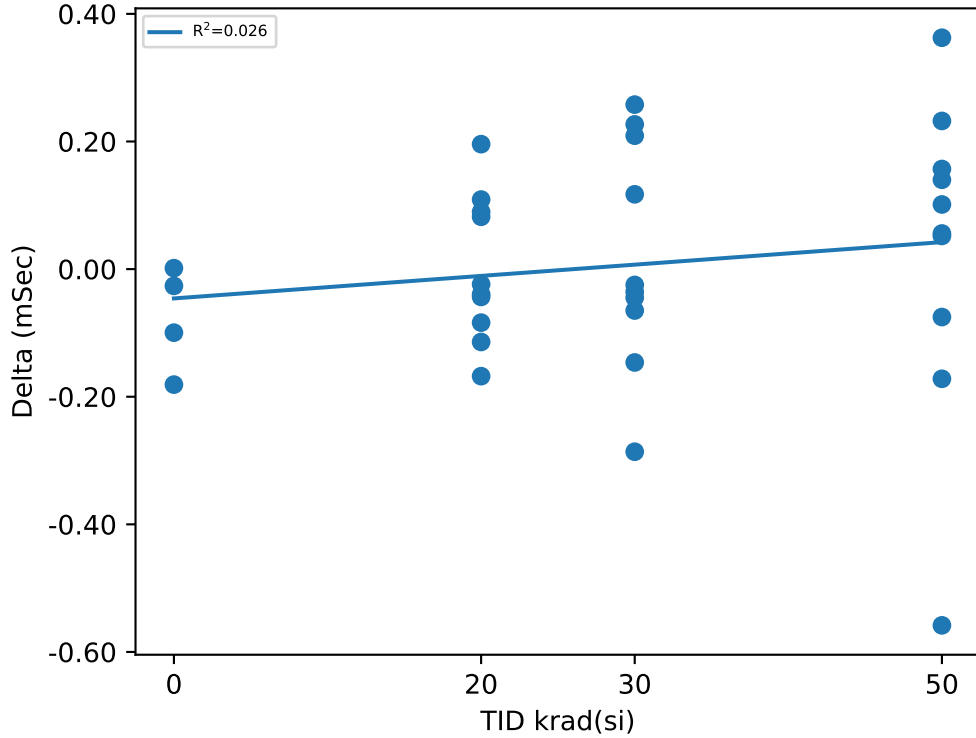
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.168 | 12.428 | 12.694 | 0.21724 | 12.068 | 12.352 | 12.668 | 0.24926 | -0.181 | -0.07635 | 0.0015 | 0.081768 |
| 20 | 12.146 | 12.374 | 12.606 | 0.16067 | 12.122 | 12.375 | 12.691 | 0.19826 | -0.1678 | 0.00039 | 0.1958 | 0.11415 |
| 30 | 12.156 | 12.351 | 12.543 | 0.13834 | 12.173 | 12.372 | 12.622 | 0.13492 | -0.2862 | 0.02084 | 0.2578 | 0.17714 |
| 50 | 12.065 | 12.419 | 12.685 | 0.21191 | 12.127 | 12.449 | 12.695 | 0.18836 | -0.5583 | 0.02955 | 0.3626 | 0.2547 |
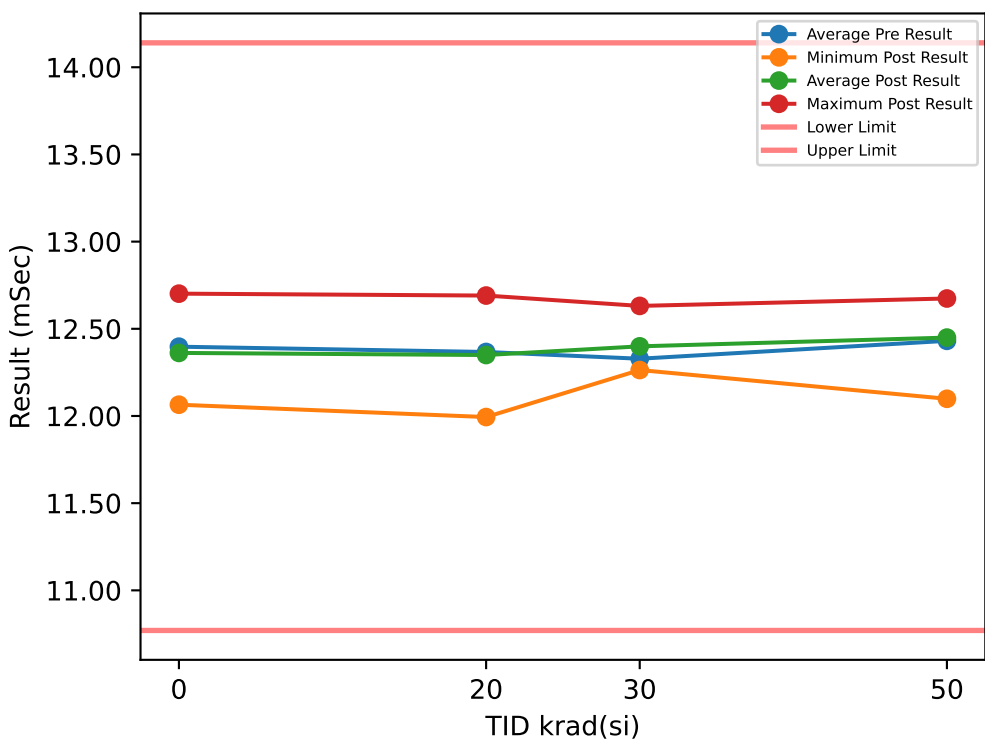
# Device Test: 17.95  DLY_TMR_500KOHM(_DELAY|STEP_UP/SEQ_DONE/1.6/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.353 | 12.323 | -0.0294 |
| 2 | 20 | Bias | 12.58 | 12.541 | -0.039 |
| 3 | 20 | Bias | 12.023 | 12.066 | 0.0437 |
| 4 | 20 | Bias | 12.497 | 12.691 | 0.1935 |
| 5 | 20 | Bias | 12.532 | 12.529 | -0.0024 |
| 6 | 20 | Unbiased | 12.21 | 11.994 | -0.2163 |
| 7 | 20 | Unbiased | 12.431 | 12.284 | -0.1465 |
| 8 | 20 | Unbiased | 12.395 | 12.334 | -0.0604 |
| 9 | 20 | Unbiased | 12.448 | 12.628 | 0.1804 |
| 10 | 20 | Unbiased | 12.203 | 12.104 | -0.0985 |
| 11 | 30 | Bias | 12.157 | 12.403 | 0.2459 |
| 12 | 30 | Bias | 12.35 | 12.338 | -0.0114 |
| 13 | 30 | Bias | 12.461 | 12.265 | -0.1962 |
| 14 | 30 | Bias | 12.114 | 12.477 | 0.3632 |
| 15 | 30 | Bias | 12.46 | 12.295 | -0.1648 |
| 16 | 30 | Unbiased | 12.489 | 12.436 | -0.0527 |
| 17 | 30 | Unbiased | 12.427 | 12.501 | 0.0739 |
| 18 | 30 | Unbiased | 12.238 | 12.631 | 0.3935 |
| 19 | 30 | Unbiased | 12.176 | 12.384 | 0.2081 |
| 20 | 30 | Unbiased | 12.412 | 12.264 | -0.149 |
| 21 | 50 | Bias | 12.06 | 12.3 | 0.2408 |
| 22 | 50 | Bias | 12.081 | 12.099 | 0.0176 |
| 23 | 50 | Bias | 12.688 | 12.237 | -0.4506 |
| 24 | 50 | Bias | 12.33 | 12.674 | 0.3434 |
| 25 | 50 | Bias | 12.575 | 12.633 | 0.0587 |
| 26 | 50 | Unbiased | 12.584 | 12.646 | 0.0622 |
| 27 | 50 | Unbiased | 12.398 | 12.204 | -0.1931 |
| 28 | 50 | Unbiased | 12.539 | 12.517 | -0.0229 |
| 29 | 50 | Unbiased | 12.626 | 12.664 | 0.0381 |
| 30 | 50 | Unbiased | 12.43 | 12.521 | 0.0915 |
| 31 | 0 | Correlation | 12.406 | 12.28 | -0.1262 |
| 32 | 0 | Correlation | 12.176 | 12.065 | -0.1117 |
| 33 | 0 | Correlation | 12.511 | 12.702 | 0.1902 |
| 34 | 0 | Correlation | 12.496 | 12.401 | -0.0953 |

## Test Statistics (mSec)
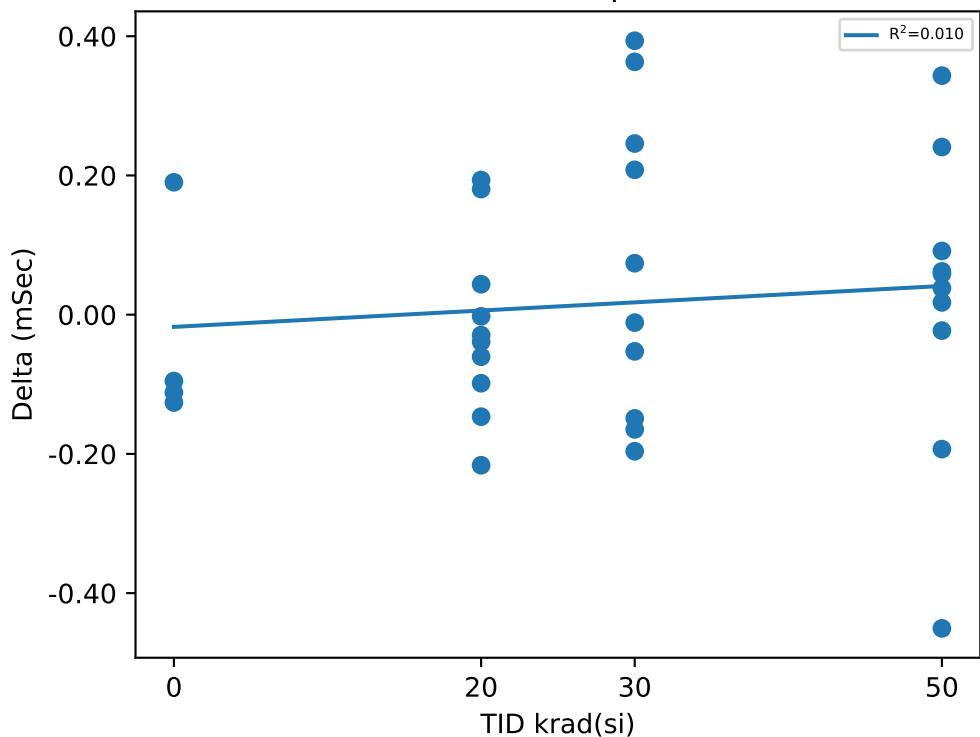
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.176 | 12.397 | 12.511 | 0.15452 | 12.065 | 12.362 | 12.702 | 0.26582 | -0.1262 | -0.03575 | 0.1902 | 0.15116 |
| 20 | 12.023 | 12.367 | 12.58 | 0.17357 | 11.994 | 12.35 | 12.691 | 0.2438 | -0.2163 | -0.01749 | 0.1935 | 0.13031 |
| 30 | 12.114 | 12.328 | 12.489 | 0.14328 | 12.264 | 12.399 | 12.631 | 0.11688 | -0.1962 | 0.07105 | 0.3935 | 0.22017 |
| 50 | 12.06 | 12.431 | 12.688 | 0.21893 | 12.099 | 12.45 | 12.674 | 0.21825 | -0.4506 | 0.01857 | 0.3434 | 0.21877 |
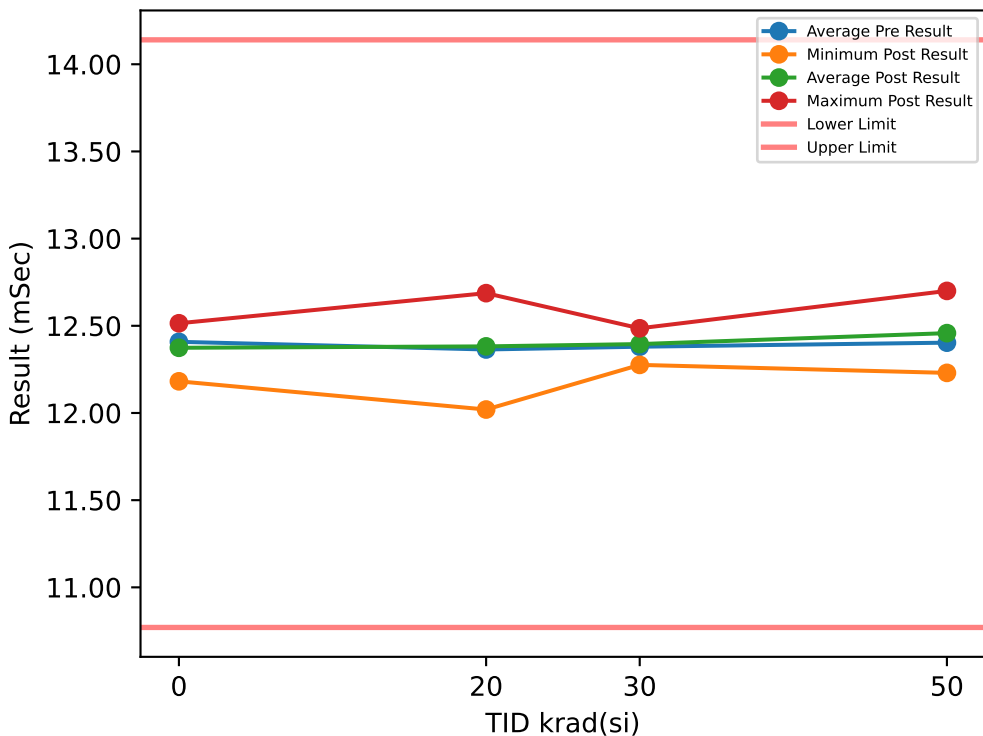
# Device Test: 17.96 DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN1/1.6/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.349 | 12.319 | -0.0302 |
| 2 | 20 | Bias | 12.602 | 12.578 | -0.0242 |
| 3 | 20 | Bias | 12.153 | 12.08 | -0.0732 |
| 4 | 20 | Bias | 12.495 | 12.687 | 0.1918 |
| 5 | 20 | Bias | 12.347 | 12.543 | 0.1954 |
| 6 | 20 | Unbiased | 12.221 | 12.02 | -0.2009 |
| 7 | 20 | Unbiased | 12.412 | 12.413 | 0.0013 |
| 8 | 20 | Unbiased | 12.392 | 12.335 | -0.057 |
| 9 | 20 | Unbiased | 12.454 | 12.612 | 0.1583 |
| 10 | 20 | Unbiased | 12.217 | 12.233 | 0.0166 |
| 11 | 30 | Bias | 12.259 | 12.394 | 0.1354 |
| 12 | 30 | Bias | 12.371 | 12.344 | -0.0269 |
| 13 | 30 | Bias | 12.447 | 12.404 | -0.0433 |
| 14 | 30 | Bias | 12.097 | 12.479 | 0.3817 |
| 15 | 30 | Bias | 12.446 | 12.276 | -0.1703 |
| 16 | 30 | Unbiased | 12.51 | 12.45 | -0.0599 |
| 17 | 30 | Unbiased | 12.573 | 12.486 | -0.0875 |
| 18 | 30 | Unbiased | 12.377 | 12.446 | 0.0687 |
| 19 | 30 | Unbiased | 12.306 | 12.392 | 0.0865 |
| 20 | 30 | Unbiased | 12.414 | 12.28 | -0.1334 |
| 21 | 50 | Bias | 12.165 | 12.44 | 0.2753 |
| 22 | 50 | Bias | 12.189 | 12.23 | 0.0412 |
| 23 | 50 | Bias | 12.498 | 12.232 | -0.2657 |
| 24 | 50 | Bias | 12.322 | 12.494 | 0.172 |
| 25 | 50 | Bias | 12.568 | 12.608 | 0.0407 |
| 26 | 50 | Unbiased | 12.593 | 12.484 | -0.1083 |
| 27 | 50 | Unbiased | 12.417 | 12.343 | -0.074 |
| 28 | 50 | Unbiased | 12.383 | 12.529 | 0.1465 |
| 29 | 50 | Unbiased | 12.477 | 12.7 | 0.2233 |
| 30 | 50 | Unbiased | 12.422 | 12.517 | 0.0949 |
| 31 | 0 | Correlation | 12.418 | 12.401 | -0.0169 |
| 32 | 0 | Correlation | 12.188 | 12.182 | -0.0064 |
| 33 | 0 | Correlation | 12.523 | 12.514 | -0.0082 |
| 34 | 0 | Correlation | 12.504 | 12.399 | -0.1054 |

## Test Statistics (mSec)
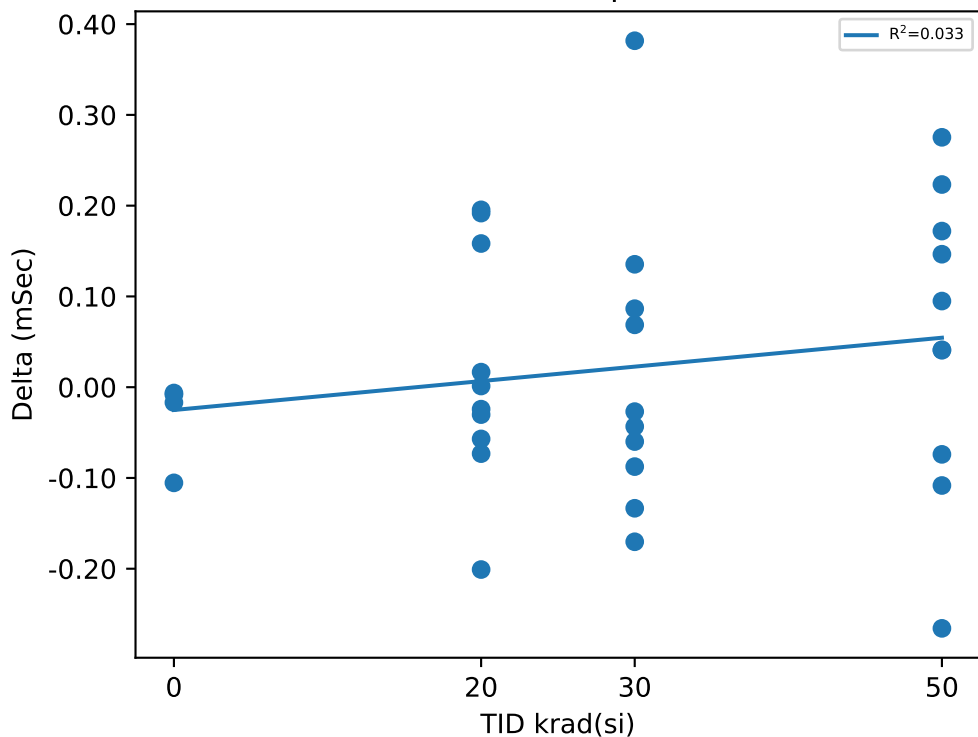
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.188 | 12.408 | 12.523 | 0.15374 | 12.182 | 12.374 | 12.514 | 0.13916 | -0.1054 | -0.034225 | -0.0064 | 0.047671 |
| 20 | 12.153 | 12.364 | 12.602 | 0.13833 | 12.02 | 12.382 | 12.687 | 0.22657 | -0.2009 | 0.01779 | 0.1954 | 0.12806 |
| 30 | 12.097 | 12.38 | 12.573 | 0.13515 | 12.276 | 12.395 | 12.486 | 0.075249 | -0.1703 | 0.0151 | 0.3817 | 0.16145 |
| 50 | 12.165 | 12.403 | 12.593 | 0.14446 | 12.23 | 12.458 | 12.7 | 0.15207 | -0.2657 | 0.05459 | 0.2753 | 0.16568 |
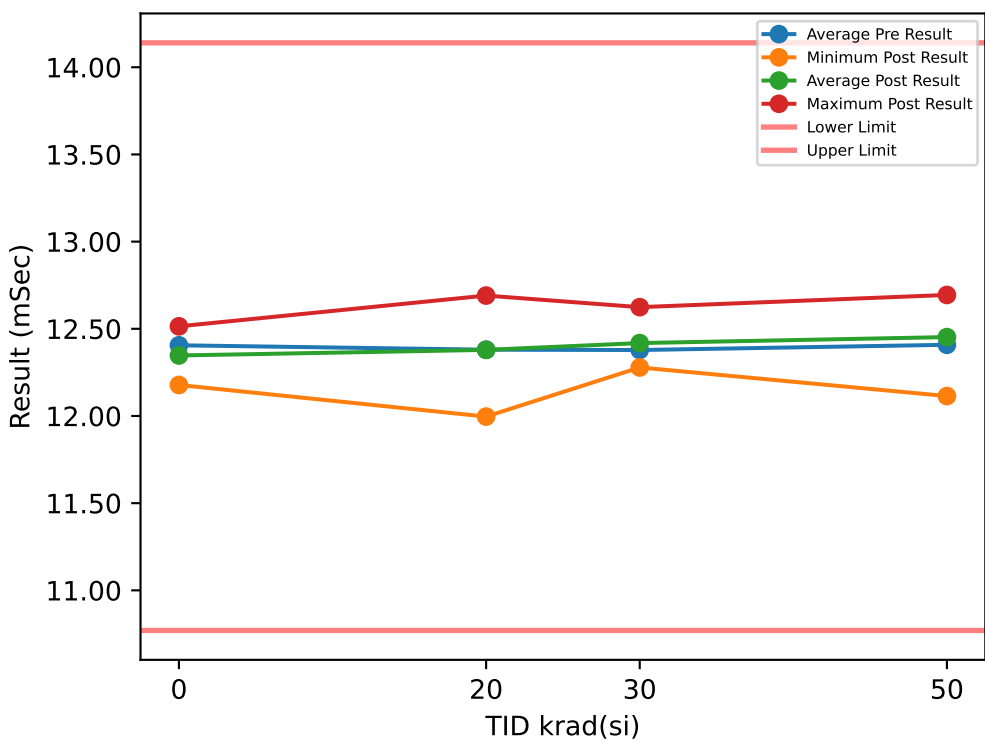
# Device Test: 17.97  DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN2/1.6/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.363 | 12.334 | -0.029 |
| 2 | 20 | Bias | 12.421 | 12.577 | 0.156 |
| 3 | 20 | Bias | 12.157 | 12.066 | -0.0917 |
| 4 | 20 | Bias | 12.591 | 12.691 | 0.0996 |
| 5 | 20 | Bias | 12.521 | 12.532 | 0.0104 |
| 6 | 20 | Unbiased | 12.222 | 11.996 | -0.2257 |
| 7 | 20 | Unbiased | 12.443 | 12.395 | -0.0481 |
| 8 | 20 | Unbiased | 12.407 | 12.347 | -0.0599 |
| 9 | 20 | Unbiased | 12.459 | 12.625 | 0.1662 |
| 10 | 20 | Unbiased | 12.218 | 12.229 | 0.0114 |
| 11 | 30 | Bias | 12.265 | 12.415 | 0.1499 |
| 12 | 30 | Bias | 12.36 | 12.349 | -0.0113 |
| 13 | 30 | Bias | 12.335 | 12.38 | 0.0447 |
| 14 | 30 | Bias | 12.239 | 12.487 | 0.2479 |
| 15 | 30 | Bias | 12.47 | 12.306 | -0.1637 |
| 16 | 30 | Unbiased | 12.48 | 12.472 | -0.0085 |
| 17 | 30 | Unbiased | 12.549 | 12.475 | -0.074 |
| 18 | 30 | Unbiased | 12.366 | 12.624 | 0.2579 |
| 19 | 30 | Unbiased | 12.296 | 12.396 | 0.0994 |
| 20 | 30 | Unbiased | 12.422 | 12.278 | -0.1442 |
| 21 | 50 | Bias | 12.171 | 12.415 | 0.2439 |
| 22 | 50 | Bias | 12.184 | 12.231 | 0.0469 |
| 23 | 50 | Bias | 12.69 | 12.114 | -0.5761 |
| 24 | 50 | Bias | 12.342 | 12.499 | 0.1568 |
| 25 | 50 | Bias | 12.396 | 12.625 | 0.2291 |
| 26 | 50 | Unbiased | 12.416 | 12.584 | 0.1672 |
| 27 | 50 | Unbiased | 12.411 | 12.328 | -0.0836 |
| 28 | 50 | Unbiased | 12.553 | 12.515 | -0.0385 |
| 29 | 50 | Unbiased | 12.476 | 12.694 | 0.2186 |
| 30 | 50 | Unbiased | 12.442 | 12.52 | 0.0776 |
| 31 | 0 | Correlation | 12.419 | 12.282 | -0.1376 |
| 32 | 0 | Correlation | 12.18 | 12.178 | -0.0023 |
| 33 | 0 | Correlation | 12.515 | 12.514 | -0.0011 |
| 34 | 0 | Correlation | 12.507 | 12.415 | -0.0926 |

## Test Statistics (mSec)
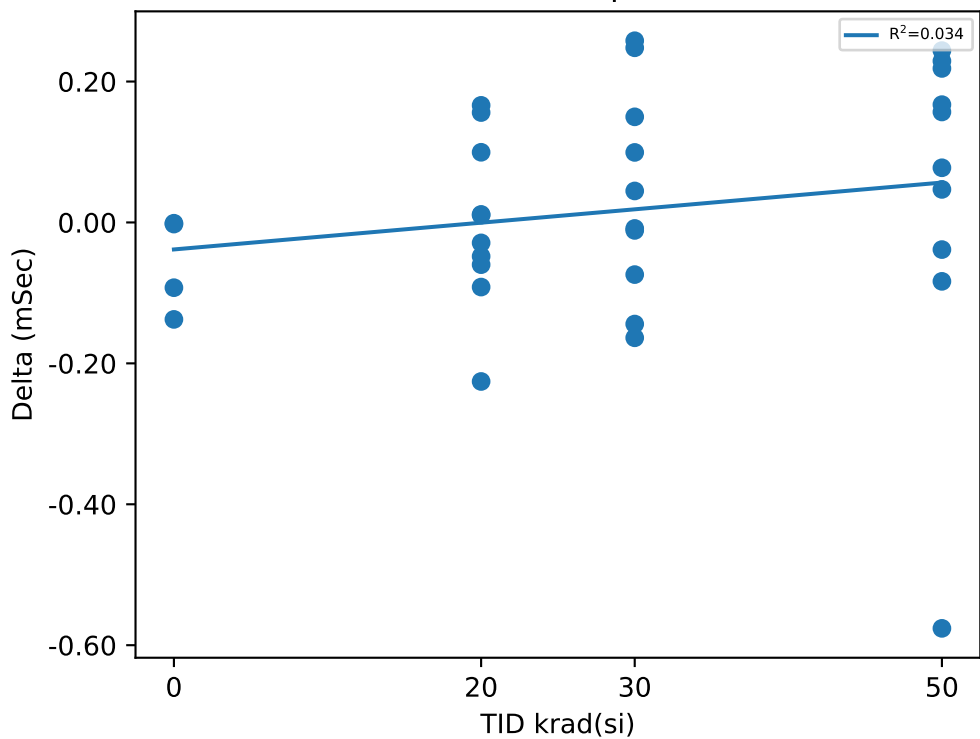
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.18 | 12.405 | 12.515 | 0.15639 | 12.178 | 12.347 | 12.514 | 0.14767 | -0.1376 | -0.0584 | -0.0011 | 0.068002 |
| 20 | 12.157 | 12.38 | 12.591 | 0.14071 | 11.996 | 12.379 | 12.691 | 0.23343 | -0.2257 | -0.00108 | 0.1662 | 0.11935 |
| 30 | 12.239 | 12.378 | 12.549 | 0.10057 | 12.278 | 12.418 | 12.624 | 0.10122 | -0.1637 | 0.03981 | 0.2579 | 0.14897 |
| 50 | 12.171 | 12.408 | 12.69 | 0.15544 | 12.114 | 12.452 | 12.694 | 0.18147 | -0.5761 | 0.04419 | 0.2439 | 0.24526 |
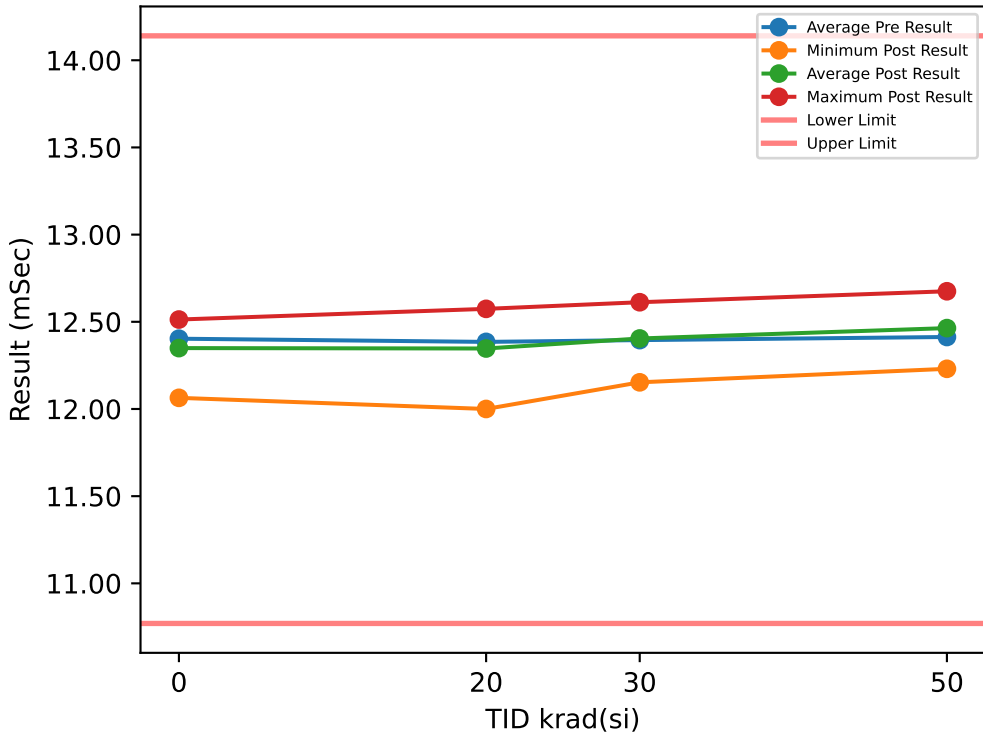
# Device Test: 17.98  DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN3/1.6/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.349 | 12.324 | -0.0247 |
| 2 | 20 | Bias | 12.593 | 12.546 | -0.0463 |
| 3 | 20 | Bias | 12.156 | 12.058 | -0.0983 |
| 4 | 20 | Bias | 12.506 | 12.574 | 0.0681 |
| 5 | 20 | Bias | 12.346 | 12.541 | 0.1958 |
| 6 | 20 | Unbiased | 12.222 | 12 | -0.2221 |
| 7 | 20 | Unbiased | 12.436 | 12.417 | -0.0189 |
| 8 | 20 | Unbiased | 12.38 | 12.346 | -0.0337 |
| 9 | 20 | Unbiased | 12.643 | 12.54 | -0.1025 |
| 10 | 20 | Unbiased | 12.217 | 12.121 | -0.0962 |
| 11 | 30 | Bias | 12.265 | 12.401 | 0.1361 |
| 12 | 30 | Bias | 12.367 | 12.34 | -0.0278 |
| 13 | 30 | Bias | 12.473 | 12.404 | -0.0697 |
| 14 | 30 | Bias | 12.239 | 12.466 | 0.2266 |
| 15 | 30 | Bias | 12.47 | 12.306 | -0.164 |
| 16 | 30 | Unbiased | 12.493 | 12.466 | -0.0267 |
| 17 | 30 | Unbiased | 12.549 | 12.512 | -0.0369 |
| 18 | 30 | Unbiased | 12.375 | 12.612 | 0.237 |
| 19 | 30 | Unbiased | 12.305 | 12.384 | 0.0795 |
| 20 | 30 | Unbiased | 12.413 | 12.153 | -0.2605 |
| 21 | 50 | Bias | 12.172 | 12.439 | 0.2676 |
| 22 | 50 | Bias | 12.189 | 12.23 | 0.0418 |
| 23 | 50 | Bias | 12.498 | 12.248 | -0.2494 |
| 24 | 50 | Bias | 12.219 | 12.498 | 0.279 |
| 25 | 50 | Bias | 12.587 | 12.643 | 0.0564 |
| 26 | 50 | Unbiased | 12.584 | 12.675 | 0.0908 |
| 27 | 50 | Unbiased | 12.415 | 12.34 | -0.075 |
| 28 | 50 | Unbiased | 12.555 | 12.527 | -0.0278 |
| 29 | 50 | Unbiased | 12.474 | 12.506 | 0.0314 |
| 30 | 50 | Unbiased | 12.437 | 12.532 | 0.095 |
| 31 | 0 | Correlation | 12.415 | 12.399 | -0.0158 |
| 32 | 0 | Correlation | 12.176 | 12.064 | -0.1122 |
| 33 | 0 | Correlation | 12.52 | 12.513 | -0.0069 |
| 34 | 0 | Correlation | 12.501 | 12.421 | -0.0807 |

## Test Statistics (mSec)
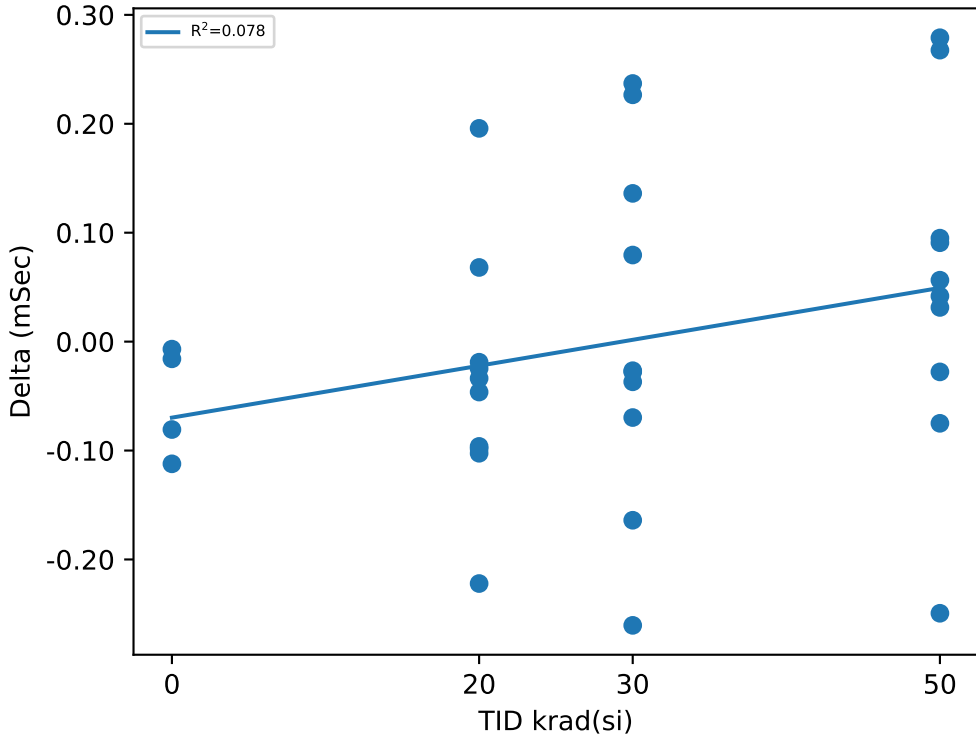
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.176 | 12.403 | 12.52 | 0.15805 | 12.064 | 12.349 | 12.513 | 0.19649 | -0.1122 | -0.0539 | -0.0069 | 0.050917 |
| 20 | 12.156 | 12.385 | 12.643 | 0.16224 | 12 | 12.347 | 12.574 | 0.21786 | -0.2221 | -0.03788 | 0.1958 | 0.11137 |
| 30 | 12.239 | 12.395 | 12.549 | 0.10325 | 12.153 | 12.404 | 12.612 | 0.12462 | -0.2605 | 0.00936 | 0.237 | 0.16123 |
| 50 | 12.172 | 12.413 | 12.587 | 0.16246 | 12.23 | 12.464 | 12.675 | 0.15105 | -0.2494 | 0.05098 | 0.279 | 0.15465 |
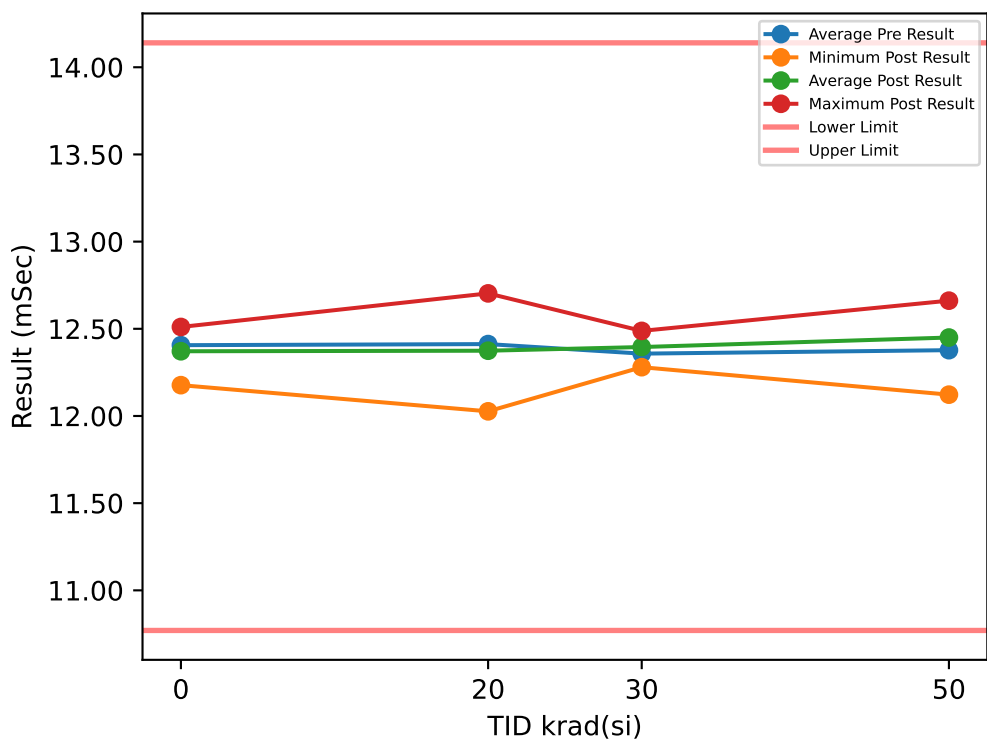
# Device Test: 17.99  DLY_TMR_500KOHM(_DELAY|STEP_DOWN/EN4/1.6/14/619K/0/0/@DLY_TMR_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.77, Upper Limit = 14.14 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.364 | 12.325 | -0.0392 |
| 2 | 20 | Bias | 12.585 | 12.56 | -0.0249 |
| 3 | 20 | Bias | 12.043 | 12.077 | 0.0336 |
| 4 | 20 | Bias | 12.681 | 12.703 | 0.0219 |
| 5 | 20 | Bias | 12.535 | 12.54 | 0.0051 |
| 6 | 20 | Unbiased | 12.216 | 12.027 | -0.1893 |
| 7 | 20 | Unbiased | 12.438 | 12.416 | -0.0227 |
| 8 | 20 | Unbiased | 12.404 | 12.337 | -0.0669 |
| 9 | 20 | Unbiased | 12.643 | 12.64 | -0.0032 |
| 10 | 20 | Unbiased | 12.214 | 12.119 | -0.0945 |
| 11 | 30 | Bias | 12.149 | 12.397 | 0.2482 |
| 12 | 30 | Bias | 12.365 | 12.347 | -0.0186 |
| 13 | 30 | Bias | 12.451 | 12.372 | -0.079 |
| 14 | 30 | Bias | 12.117 | 12.488 | 0.371 |
| 15 | 30 | Bias | 12.453 | 12.28 | -0.1727 |
| 16 | 30 | Unbiased | 12.502 | 12.471 | -0.0308 |
| 17 | 30 | Unbiased | 12.571 | 12.483 | -0.0873 |
| 18 | 30 | Unbiased | 12.371 | 12.443 | 0.0716 |
| 19 | 30 | Unbiased | 12.177 | 12.393 | 0.2159 |
| 20 | 30 | Unbiased | 12.421 | 12.281 | -0.1399 |
| 21 | 50 | Bias | 12.056 | 12.437 | 0.3805 |
| 22 | 50 | Bias | 12.189 | 12.211 | 0.022 |
| 23 | 50 | Bias | 12.498 | 12.122 | -0.3757 |
| 24 | 50 | Bias | 12.341 | 12.661 | 0.3202 |
| 25 | 50 | Bias | 12.395 | 12.642 | 0.247 |
| 26 | 50 | Unbiased | 12.599 | 12.646 | 0.0471 |
| 27 | 50 | Unbiased | 12.404 | 12.341 | -0.0622 |
| 28 | 50 | Unbiased | 12.381 | 12.527 | 0.1466 |
| 29 | 50 | Unbiased | 12.474 | 12.507 | 0.0335 |
| 30 | 50 | Unbiased | 12.438 | 12.403 | -0.0345 |
| 31 | 0 | Correlation | 12.418 | 12.386 | -0.0318 |
| 32 | 0 | Correlation | 12.185 | 12.177 | -0.0083 |
| 33 | 0 | Correlation | 12.52 | 12.511 | -0.0097 |
| 34 | 0 | Correlation | 12.501 | 12.411 | -0.0898 |

## Test Statistics (mSec)
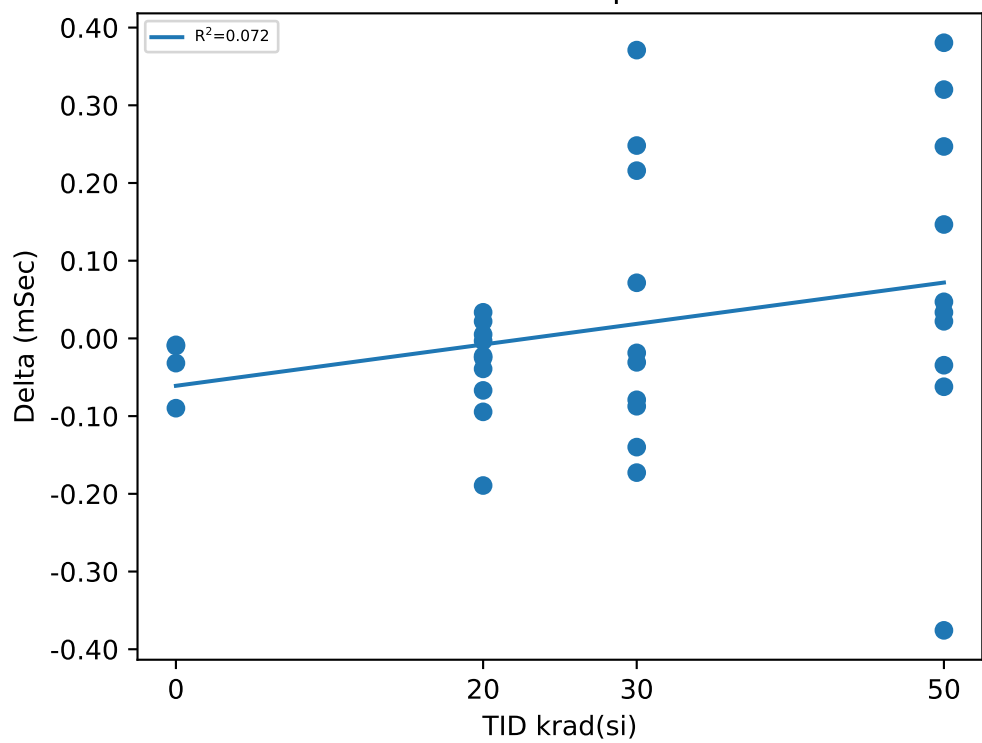
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.185 | 12.406 | 12.52 | 0.15381 | 12.177 | 12.371 | 12.511 | 0.14025 | -0.0898 | -0.0349 | -0.0083 | 0.03815 |
| 20 | 12.043 | 12.412 | 12.681 | 0.20753 | 12.027 | 12.374 | 12.703 | 0.24049 | -0.1893 | -0.03801 | 0.0336 | 0.06592 |
| 30 | 12.117 | 12.358 | 12.571 | 0.15718 | 12.28 | 12.395 | 12.488 | 0.077165 | -0.1727 | 0.03784 | 0.371 | 0.18294 |
| 50 | 12.056 | 12.377 | 12.599 | 0.15544 | 12.122 | 12.45 | 12.661 | 0.18488 | -0.3757 | 0.07245 | 0.3805 | 0.21791 |
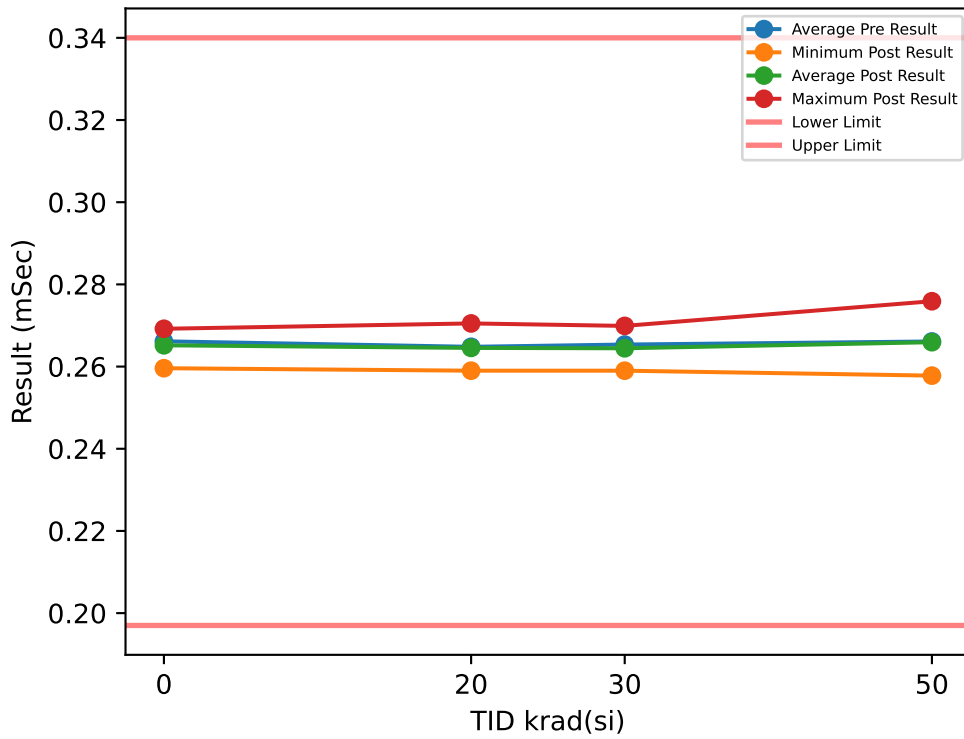
# Device Test: 18.1   REG_TIME_10KOHM(_DELAY|TIMING/SENSE1/1.6/3/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2676 | 0.2671 | -0.0005 |
| 2 | 20 | Bias | 0.2693 | 0.2705 | 0.0012 |
| 3 | 20 | Bias | 0.2679 | 0.2679 | 0 |
| 4 | 20 | Bias | 0.2675 | 0.266 | -0.0015 |
| 5 | 20 | Bias | 0.2606 | 0.2599 | -0.0007 |
| 6 | 20 | Unbiased | 0.2671 | 0.267 | -0.0001 |
| 7 | 20 | Unbiased | 0.2665 | 0.2666 | 0.0001 |
| 8 | 20 | Unbiased | 0.2597 | 0.259 | -0.0007 |
| 9 | 20 | Unbiased | 0.2615 | 0.2607 | -0.0008 |
| 10 | 20 | Unbiased | 0.2604 | 0.2607 | 0.0003 |
| 11 | 30 | Bias | 0.2643 | 0.259 | -0.0053 |
| 12 | 30 | Bias | 0.2689 | 0.2644 | -0.0045 |
| 13 | 30 | Bias | 0.2626 | 0.2685 | 0.0059 |
| 14 | 30 | Bias | 0.2685 | 0.26 | -0.0085 |
| 15 | 30 | Bias | 0.2666 | 0.2685 | 0.0019 |
| 16 | 30 | Unbiased | 0.261 | 0.2661 | 0.0051 |
| 17 | 30 | Unbiased | 0.2659 | 0.2602 | -0.0057 |
| 18 | 30 | Unbiased | 0.2685 | 0.2656 | -0.0029 |
| 19 | 30 | Unbiased | 0.2629 | 0.2699 | 0.007 |
| 20 | 30 | Unbiased | 0.2644 | 0.2623 | -0.0021 |
| 21 | 50 | Bias | 0.2678 | 0.2665 | -0.0013 |
| 22 | 50 | Bias | 0.2652 | 0.2666 | 0.0014 |
| 23 | 50 | Bias | 0.2613 | 0.2647 | 0.0034 |
| 24 | 50 | Bias | 0.2686 | 0.261 | -0.0076 |
| 25 | 50 | Bias | 0.2734 | 0.2759 | 0.0025 |
| 26 | 50 | Unbiased | 0.2609 | 0.2615 | 0.0006 |
| 27 | 50 | Unbiased | 0.259 | 0.2578 | -0.0012 |
| 28 | 50 | Unbiased | 0.2694 | 0.2712 | 0.0018 |
| 29 | 50 | Unbiased | 0.2674 | 0.2675 | 0.0001 |
| 30 | 50 | Unbiased | 0.2681 | 0.2666 | -0.0015 |
| 31 | 0 | Correlation | 0.2672 | 0.2692 | 0.002 |
| 32 | 0 | Correlation | 0.2661 | 0.266 | -0.0001 |
| 33 | 0 | Correlation | 0.2659 | 0.2659 | 0 |
| 34 | 0 | Correlation | 0.2654 | 0.2596 | -0.0058 |
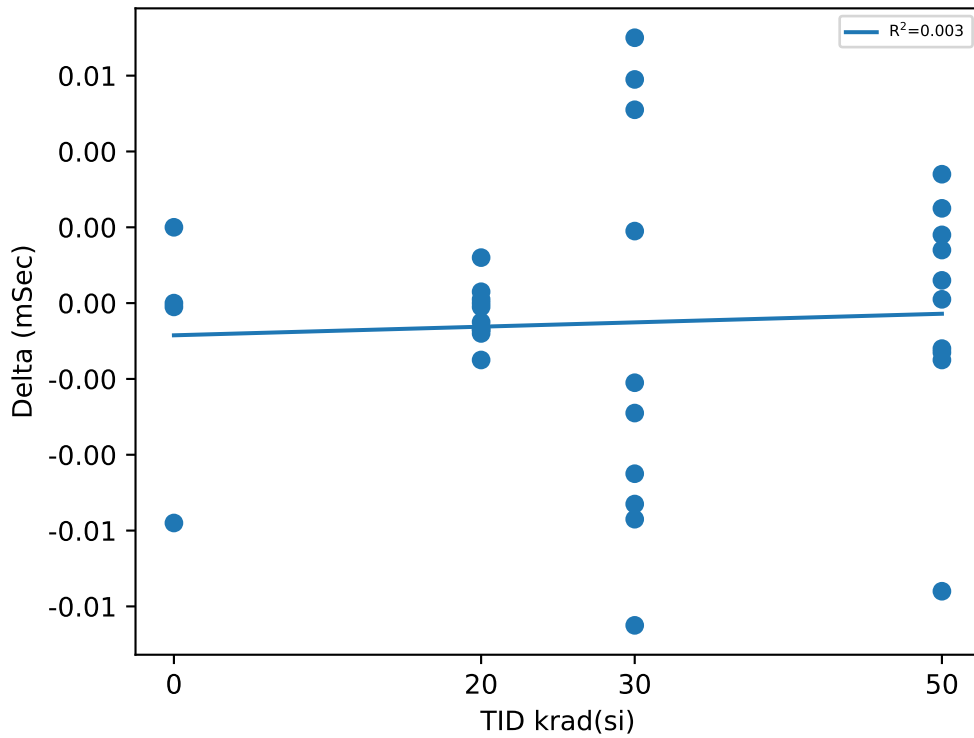
## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2654 | 0.26615 | 0.2672 | 0.00075939 | 0.2596 | 0.26517 | 0.2692 | 0.0040203 | -0.0058 | -0.000975 | 0.002 | 0.0033589 |
| 20 | 0.2597 | 0.26481 | 0.2693 | 0.0037575 | 0.259 | 0.26454 | 0.2705 | 0.0040484 | -0.0015 | -0.00027 | 0.0012 | 0.00074095 |
| 30 | 0.261 | 0.26536 | 0.2689 | 0.0027649 | 0.259 | 0.26445 | 0.2699 | 0.0039263 | -0.0085 | -0.00091 | 0.007 | 0.0054879 |
| 50 | 0.259 | 0.26611 | 0.2734 | 0.004476 | 0.2578 | 0.26593 | 0.2759 | 0.0051897 | -0.0076 | -0.00018 | 0.0034 | 0.0030947 |
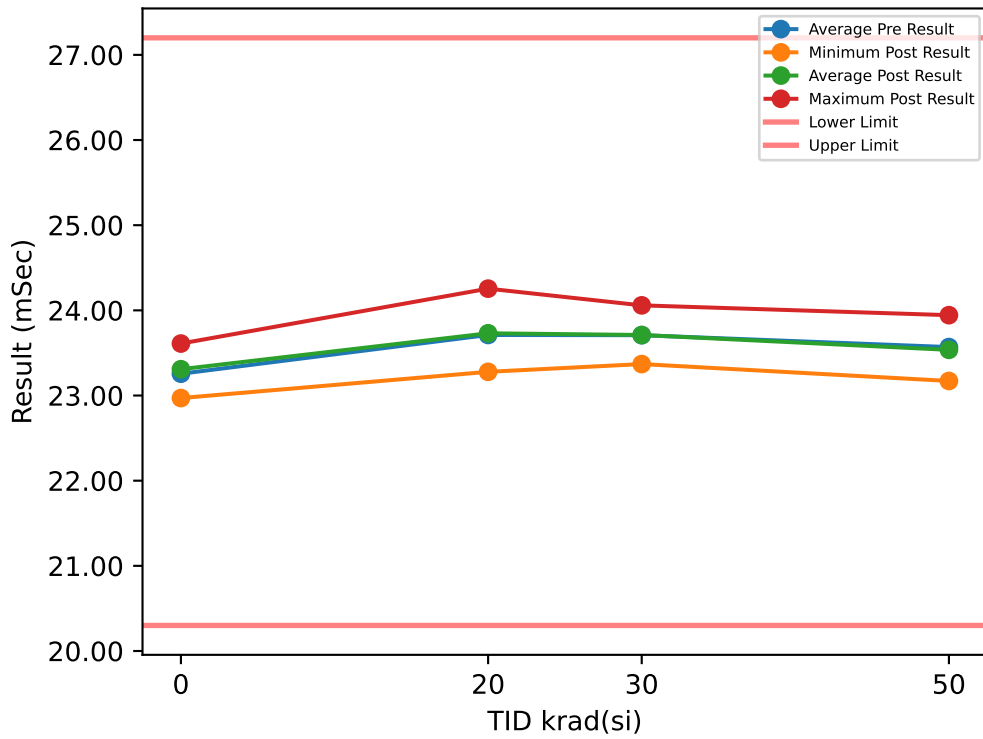
# Device Test: 18.10  REG_TIME_1MOHM(_DELAY|TIMING/SENSE2/1.6/3/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Lower Limit, Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.009$

## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.032 | 23.904 | -0.1271 |
| 2 | 20 | Bias | 24.16 | 24.255 | 0.0947 |
| 3 | 20 | Bias | 23.987 | 24.25 | 0.2635 |
| 4 | 20 | Bias | 23.49 | 23.343 | -0.1469 |
| 5 | 20 | Bias | 23.761 | 23.837 | 0.0755 |
| 6 | 20 | Unbiased | 23.326 | 23.3 | -0.0264 |
| 7 | 20 | Unbiased | 23.365 | 23.278 | -0.0868 |
| 8 | 20 | Unbiased | 23.871 | 23.807 | -0.0641 |
| 9 | 20 | Unbiased | 23.397 | 23.491 | 0.0945 |
| 10 | 20 | Unbiased | 23.72 | 23.841 | 0.1215 |
| 11 | 30 | Bias | 23.402 | 23.702 | 0.2999 |
| 12 | 30 | Bias | 23.321 | 23.369 | 0.048 |
| 13 | 30 | Bias | 24.164 | 23.39 | -0.7742 |
| 14 | 30 | Bias | 24.043 | 23.902 | -0.1404 |
| 15 | 30 | Bias | 23.544 | 23.964 | 0.4193 |
| 16 | 30 | Unbiased | 23.53 | 23.384 | -0.146 |
| 17 | 30 | Unbiased | 24.042 | 23.486 | -0.5564 |
| 18 | 30 | Unbiased | 23.974 | 24.042 | 0.0686 |
| 19 | 30 | Unbiased | 23.61 | 24.059 | 0.4485 |
| 20 | 30 | Unbiased | 23.453 | 23.811 | 0.3582 |
| 21 | 50 | Bias | 23.526 | 23.482 | -0.0439 |
| 22 | 50 | Bias | 23.095 | 23.333 | 0.2379 |
| 23 | 50 | Bias | 23.658 | 23.171 | -0.487 |
| 24 | 50 | Bias | 24.057 | 23.501 | -0.5564 |
| 25 | 50 | Bias | 23.442 | 23.569 | 0.1268 |
| 26 | 50 | Unbiased | 23.478 | 23.587 | 0.1085 |
| 27 | 50 | Unbiased | 23.698 | 23.368 | -0.3302 |
| 28 | 50 | Unbiased | 23.965 | 23.924 | -0.0404 |
| 29 | 50 | Unbiased | 23.459 | 23.944 | 0.4843 |
| 30 | 50 | Unbiased | 23.31 | 23.485 | 0.1744 |
| 31 | 0 | Correlation | 23.036 | 22.97 | -0.0654 |
| 32 | 0 | Correlation | 23.355 | 23.38 | 0.025 |
| 33 | 0 | Correlation | 23.3 | 23.276 | -0.0246 |
| 34 | 0 | Correlation | 23.333 | 23.61 | 0.2769 |

## Test Statistics (mSec)
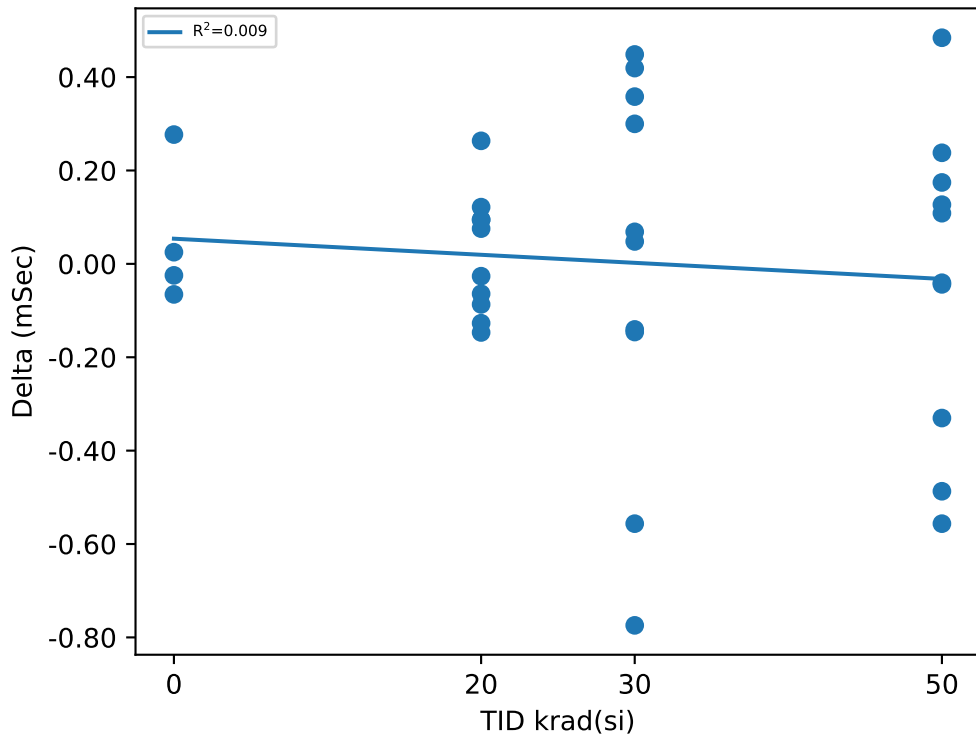
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.036 | 23.256 | 23.355 | 0.14856 | 22.97 | 23.309 | 23.61 | 0.26559 | -0.0654 | 0.052975 | 0.2769 | 0.15379 |
| 20 | 23.326 | 23.711 | 24.16 | 0.30259 | 23.278 | 23.731 | 24.255 | 0.36546 | -0.1469 | 0.01984 | 0.2635 | 0.13078 |
| 30 | 23.321 | 23.708 | 24.164 | 0.31243 | 23.369 | 23.711 | 24.059 | 0.28262 | -0.7742 | 0.00255 | 0.4485 | 0.41528 |
| 50 | 23.095 | 23.569 | 24.057 | 0.28851 | 23.171 | 23.536 | 23.944 | 0.24269 | -0.5564 | -0.0326 | 0.4843 | 0.33302 |
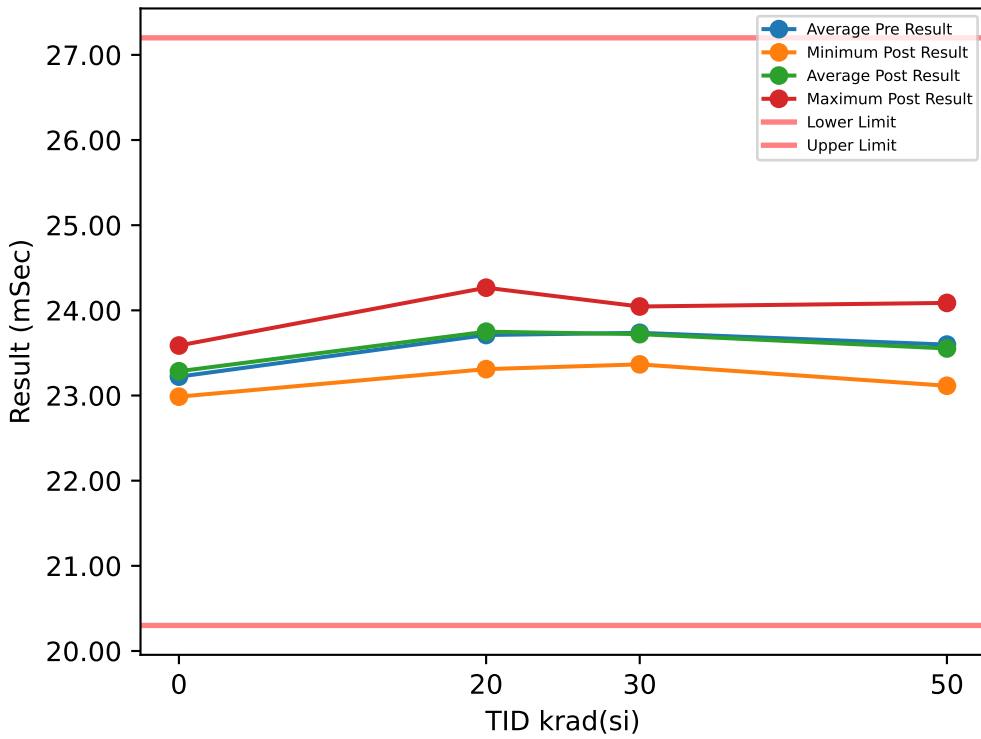
# Device Test: 18.11  REG_TIME_1MOHM(_DELAY|TIMING/SENSE3/1.6/3/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Lower Limit, Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.018$

## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.027 | 24.067 | 0.0395 |
| 2 | 20 | Bias | 24.15 | 24.266 | 0.1161 |
| 3 | 20 | Bias | 23.962 | 24.074 | 0.1119 |
| 4 | 20 | Bias | 23.465 | 23.476 | 0.0114 |
| 5 | 20 | Bias | 23.742 | 23.843 | 0.1005 |
| 6 | 20 | Unbiased | 23.314 | 23.31 | -0.004 |
| 7 | 20 | Unbiased | 23.355 | 23.404 | 0.0488 |
| 8 | 20 | Unbiased | 23.851 | 23.794 | -0.057 |
| 9 | 20 | Unbiased | 23.549 | 23.442 | -0.1078 |
| 10 | 20 | Unbiased | 23.687 | 23.818 | 0.1312 |
| 11 | 30 | Bias | 23.537 | 23.653 | 0.1161 |
| 12 | 30 | Bias | 23.49 | 23.366 | -0.1244 |
| 13 | 30 | Bias | 24.099 | 23.379 | -0.7208 |
| 14 | 30 | Bias | 23.993 | 24.045 | 0.0521 |
| 15 | 30 | Bias | 23.557 | 23.938 | 0.3811 |
| 16 | 30 | Unbiased | 23.505 | 23.528 | 0.0232 |
| 17 | 30 | Unbiased | 24.186 | 23.469 | -0.7167 |
| 18 | 30 | Unbiased | 23.967 | 24.027 | 0.0599 |
| 19 | 30 | Unbiased | 23.583 | 24.015 | 0.4316 |
| 20 | 30 | Unbiased | 23.445 | 23.788 | 0.3433 |
| 21 | 50 | Bias | 23.629 | 23.453 | -0.1768 |
| 22 | 50 | Bias | 23.059 | 23.442 | 0.3832 |
| 23 | 50 | Bias | 23.636 | 23.114 | -0.5215 |
| 24 | 50 | Bias | 24.18 | 23.477 | -0.703 |
| 25 | 50 | Bias | 23.417 | 23.54 | 0.1235 |
| 26 | 50 | Unbiased | 23.462 | 23.549 | 0.0877 |
| 27 | 50 | Unbiased | 23.657 | 23.529 | -0.1275 |
| 28 | 50 | Unbiased | 23.933 | 24.087 | 0.1542 |
| 29 | 50 | Unbiased | 23.563 | 23.889 | 0.3266 |
| 30 | 50 | Unbiased | 23.444 | 23.444 | -0.0004 |
| 31 | 0 | Correlation | 22.982 | 22.986 | 0.0048 |
| 32 | 0 | Correlation | 23.346 | 23.331 | -0.015 |
| 33 | 0 | Correlation | 23.262 | 23.236 | -0.0268 |
| 34 | 0 | Correlation | 23.297 | 23.587 | 0.2906 |

## Test Statistics (mSec)
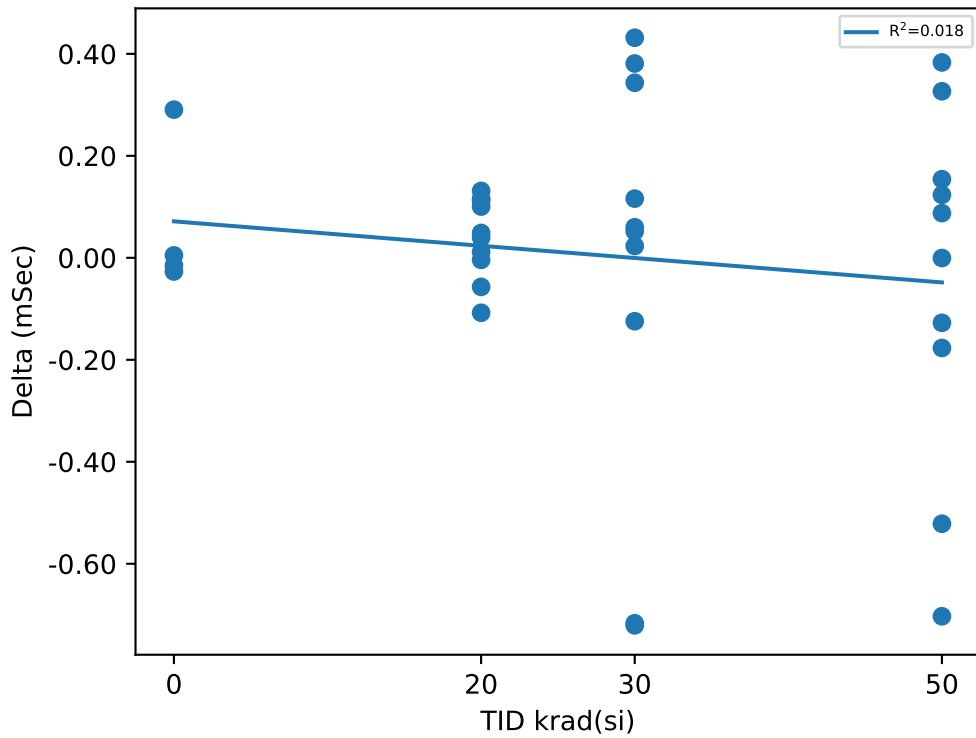
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.982 | 23.222 | 23.346 | 0.16354 | 22.986 | 23.285 | 23.587 | 0.24828 | -0.0268 | 0.0634 | 0.2906 | 0.15203 |
| 20 | 23.314 | 23.71 | 24.15 | 0.28835 | 23.31 | 23.749 | 24.266 | 0.32844 | -0.1078 | 0.03906 | 0.1312 | 0.079593 |
| 30 | 23.445 | 23.736 | 24.186 | 0.28828 | 23.366 | 23.721 | 24.045 | 0.27599 | -0.7208 | -0.01546 | 0.4316 | 0.41042 |
| 50 | 23.059 | 23.598 | 24.18 | 0.30254 | 23.114 | 23.553 | 24.087 | 0.26497 | -0.703 | -0.0454 | 0.3832 | 0.34854 |
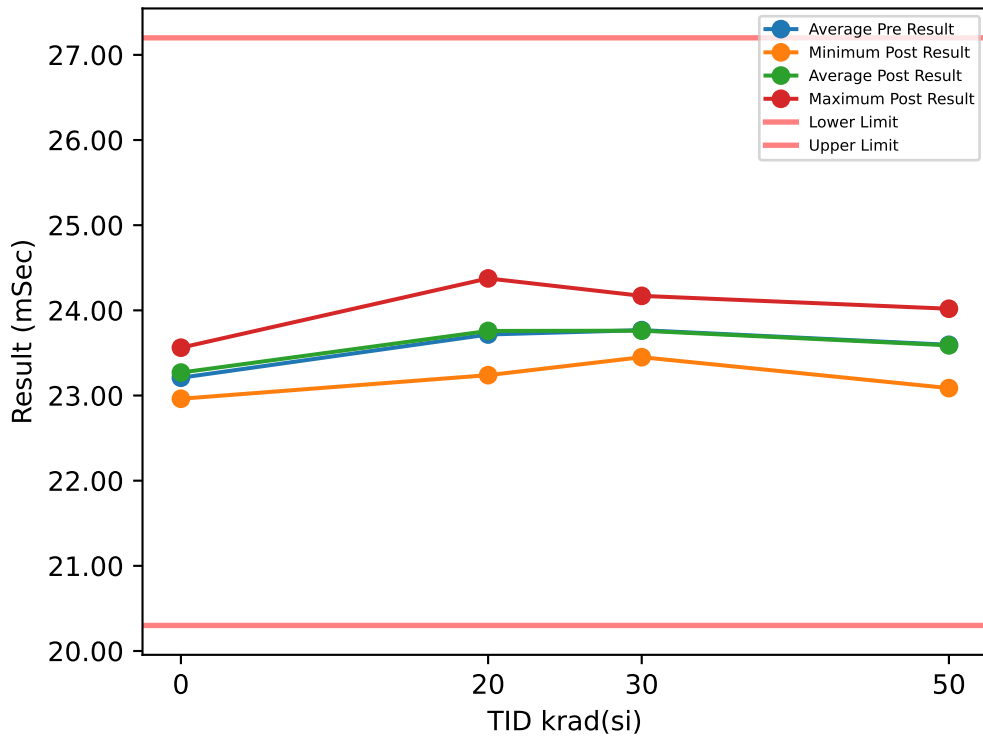
# Device Test: 18.12  REG_TIME_1MOHM(_DELAY|TIMING/SENSE4/1.6/3/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.021 | 23.981 | -0.0402 |
| 2 | 20 | Bias | 24.086 | 24.375 | 0.2893 |
| 3 | 20 | Bias | 24.104 | 24.188 | 0.0842 |
| 4 | 20 | Bias | 23.591 | 23.423 | -0.1679 |
| 5 | 20 | Bias | 23.693 | 23.814 | 0.1215 |
| 6 | 20 | Unbiased | 23.306 | 23.239 | -0.0668 |
| 7 | 20 | Unbiased | 23.346 | 23.37 | 0.0242 |
| 8 | 20 | Unbiased | 23.8 | 23.782 | -0.0185 |
| 9 | 20 | Unbiased | 23.542 | 23.591 | 0.0485 |
| 10 | 20 | Unbiased | 23.672 | 23.819 | 0.1465 |
| 11 | 30 | Bias | 23.513 | 23.648 | 0.1353 |
| 12 | 30 | Bias | 23.479 | 23.509 | 0.0303 |
| 13 | 30 | Bias | 24.108 | 23.506 | -0.6026 |
| 14 | 30 | Bias | 24.134 | 24.058 | -0.0757 |
| 15 | 30 | Bias | 23.526 | 24.066 | 0.5404 |
| 16 | 30 | Unbiased | 23.634 | 23.49 | -0.1435 |
| 17 | 30 | Unbiased | 24.199 | 23.45 | -0.749 |
| 18 | 30 | Unbiased | 23.943 | 24.024 | 0.0808 |
| 19 | 30 | Unbiased | 23.557 | 24.17 | 0.6128 |
| 20 | 30 | Unbiased | 23.585 | 23.69 | 0.1046 |
| 21 | 50 | Bias | 23.646 | 23.462 | -0.1844 |
| 22 | 50 | Bias | 22.992 | 23.431 | 0.4388 |
| 23 | 50 | Bias | 23.61 | 23.087 | -0.5228 |
| 24 | 50 | Bias | 24.006 | 23.596 | -0.41 |
| 25 | 50 | Bias | 23.412 | 23.659 | 0.2478 |
| 26 | 50 | Unbiased | 23.594 | 23.679 | 0.0844 |
| 27 | 50 | Unbiased | 23.645 | 23.519 | -0.1267 |
| 28 | 50 | Unbiased | 24.076 | 24.019 | -0.0569 |
| 29 | 50 | Unbiased | 23.545 | 23.875 | 0.3306 |
| 30 | 50 | Unbiased | 23.428 | 23.565 | 0.1363 |
| 31 | 0 | Correlation | 22.95 | 22.962 | 0.0119 |
| 32 | 0 | Correlation | 23.337 | 23.308 | -0.0282 |
| 33 | 0 | Correlation | 23.255 | 23.246 | -0.0087 |
| 34 | 0 | Correlation | 23.294 | 23.562 | 0.2675 |

## Test Statistics (mSec)
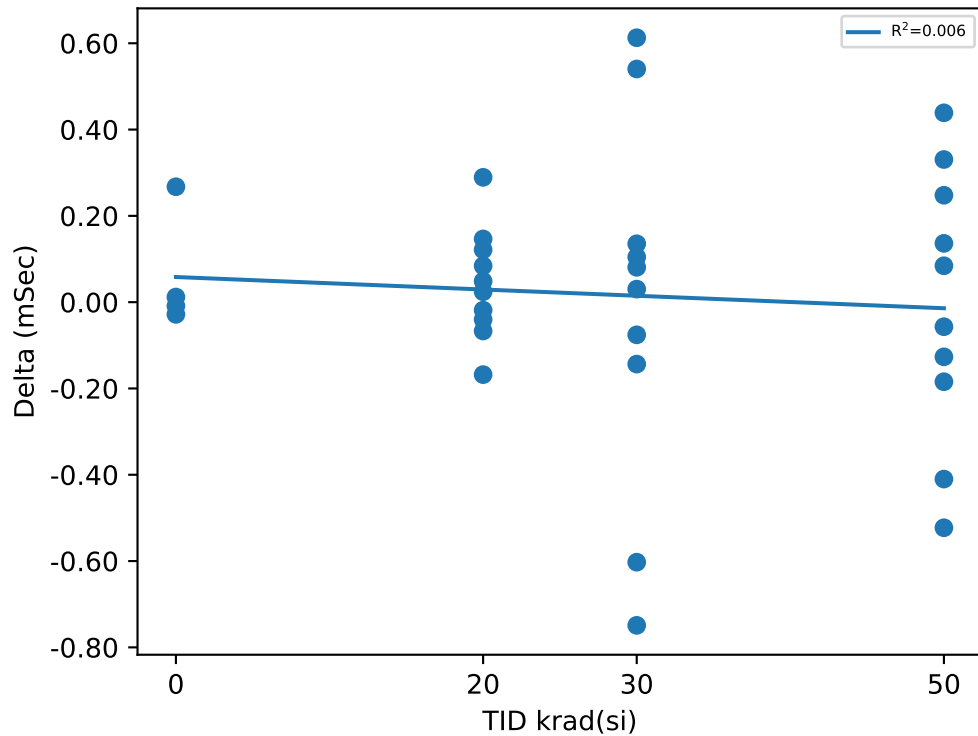
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.95 | 23.209 | 23.337 | 0.17578 | 22.962 | 23.269 | 23.562 | 0.24631 | -0.0282 | 0.060625 | 0.2675 | 0.13889 |
| 20 | 23.306 | 23.716 | 24.104 | 0.28696 | 23.239 | 23.758 | 24.375 | 0.36258 | -0.1679 | 0.04208 | 0.2893 | 0.12774 |
| 30 | 23.479 | 23.768 | 24.199 | 0.29241 | 23.45 | 23.761 | 24.17 | 0.28566 | -0.749 | -0.00666 | 0.6128 | 0.42873 |
| 50 | 22.992 | 23.595 | 24.076 | 0.30422 | 23.087 | 23.589 | 24.019 | 0.25352 | -0.5228 | -0.00629 | 0.4388 | 0.31327 |
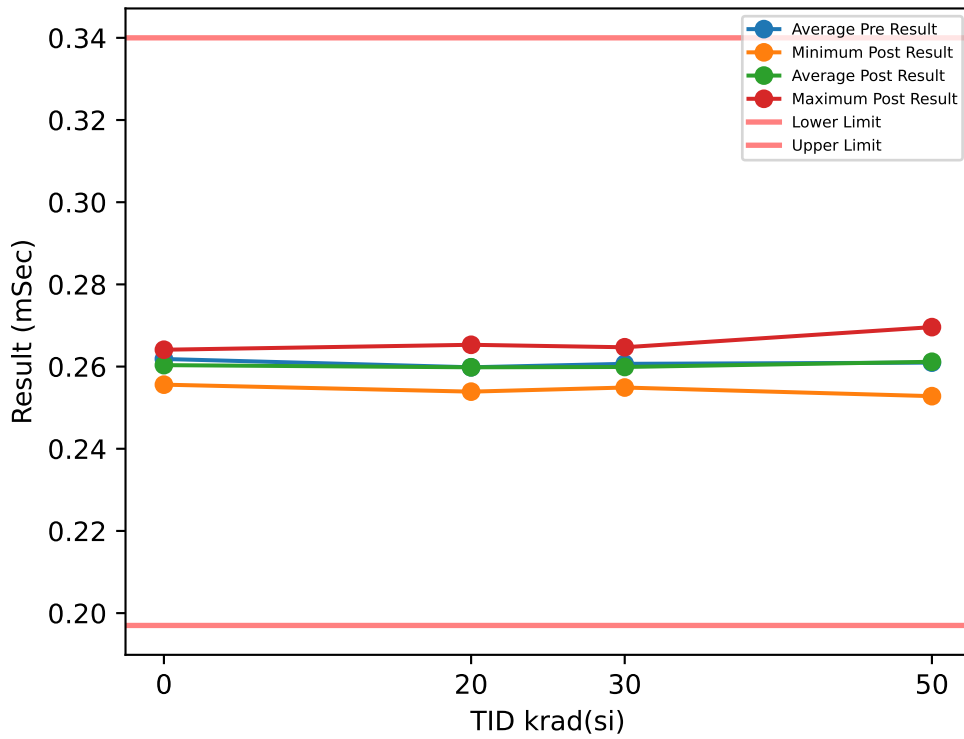
# Device Test: 18.13  REG_TIME_10KOHM(_DELAY|TIMING/SENSE1/1.6/14/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2645 | 0.2629 | -0.0016 |
| 2 | 20 | Bias | 0.2652 | 0.2653 | 0.0001 |
| 3 | 20 | Bias | 0.2628 | 0.2628 | 0 |
| 4 | 20 | Bias | 0.2634 | 0.2619 | -0.0015 |
| 5 | 20 | Bias | 0.2546 | 0.2569 | 0.0023 |
| 6 | 20 | Unbiased | 0.2609 | 0.2607 | -0.0002 |
| 7 | 20 | Unbiased | 0.2604 | 0.2605 | 0.0001 |
| 8 | 20 | Unbiased | 0.2536 | 0.2539 | 0.0003 |
| 9 | 20 | Unbiased | 0.2564 | 0.2576 | 0.0012 |
| 10 | 20 | Unbiased | 0.2565 | 0.2557 | -0.0008 |
| 11 | 30 | Bias | 0.2581 | 0.2549 | -0.0032 |
| 12 | 30 | Bias | 0.2639 | 0.2591 | -0.0048 |
| 13 | 30 | Bias | 0.2566 | 0.2633 | 0.0067 |
| 14 | 30 | Bias | 0.2644 | 0.2569 | -0.0075 |
| 15 | 30 | Bias | 0.2634 | 0.2643 | 0.0009 |
| 16 | 30 | Unbiased | 0.2569 | 0.2609 | 0.004 |
| 17 | 30 | Unbiased | 0.2608 | 0.2572 | -0.0036 |
| 18 | 30 | Unbiased | 0.2634 | 0.2604 | -0.003 |
| 19 | 30 | Unbiased | 0.2579 | 0.2647 | 0.0068 |
| 20 | 30 | Unbiased | 0.2613 | 0.2573 | -0.004 |
| 21 | 50 | Bias | 0.2637 | 0.2593 | -0.0044 |
| 22 | 50 | Bias | 0.2601 | 0.2624 | 0.0023 |
| 23 | 50 | Bias | 0.2553 | 0.2606 | 0.0053 |
| 24 | 50 | Bias | 0.2615 | 0.2579 | -0.0036 |
| 25 | 50 | Bias | 0.2684 | 0.2696 | 0.0012 |
| 26 | 50 | Unbiased | 0.2559 | 0.2563 | 0.0004 |
| 27 | 50 | Unbiased | 0.253 | 0.2528 | -0.0002 |
| 28 | 50 | Unbiased | 0.2654 | 0.2681 | 0.0027 |
| 29 | 50 | Unbiased | 0.2632 | 0.2632 | 0 |
| 30 | 50 | Unbiased | 0.2631 | 0.2615 | -0.0016 |
| 31 | 0 | Correlation | 0.2641 | 0.2641 | 0 |
| 32 | 0 | Correlation | 0.261 | 0.2609 | -0.0001 |
| 33 | 0 | Correlation | 0.2609 | 0.2608 | -0.0001 |
| 34 | 0 | Correlation | 0.2614 | 0.2556 | -0.0058 |

## Test Statistics (mSec)
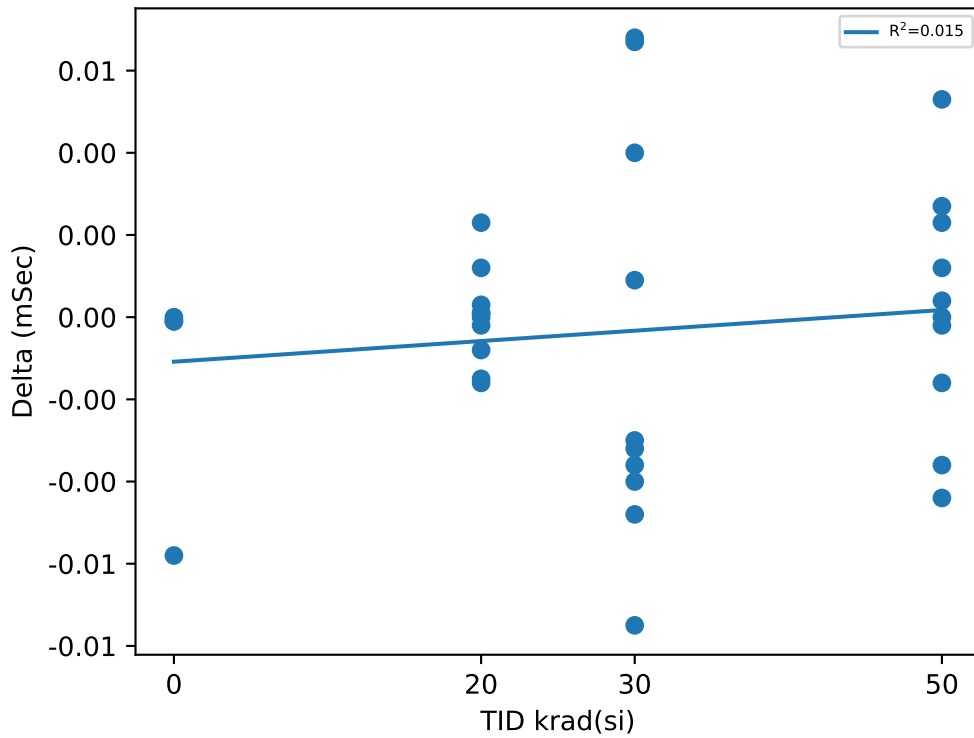
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2609 | 0.26185 | 0.2641 | 0.0015155 | 0.2556 | 0.26035 | 0.2641 | 0.003518 | -0.0058 | -0.0015 | 0 | 0.0028671 |
| 20 | 0.2536 | 0.25983 | 0.2652 | 0.0042518 | 0.2539 | 0.25982 | 0.2653 | 0.0036429 | -0.0016 | -1e-05 | 0.0023 | 0.0011704 |
| 30 | 0.2566 | 0.26067 | 0.2644 | 0.0030681 | 0.2549 | 0.2599 | 0.2647 | 0.0033977 | -0.0075 | -0.00077 | 0.0068 | 0.0050498 |
| 50 | 0.253 | 0.26096 | 0.2684 | 0.0048786 | 0.2528 | 0.26117 | 0.2696 | 0.0050894 | -0.0044 | 0.00021 | 0.0053 | 0.0029202 |
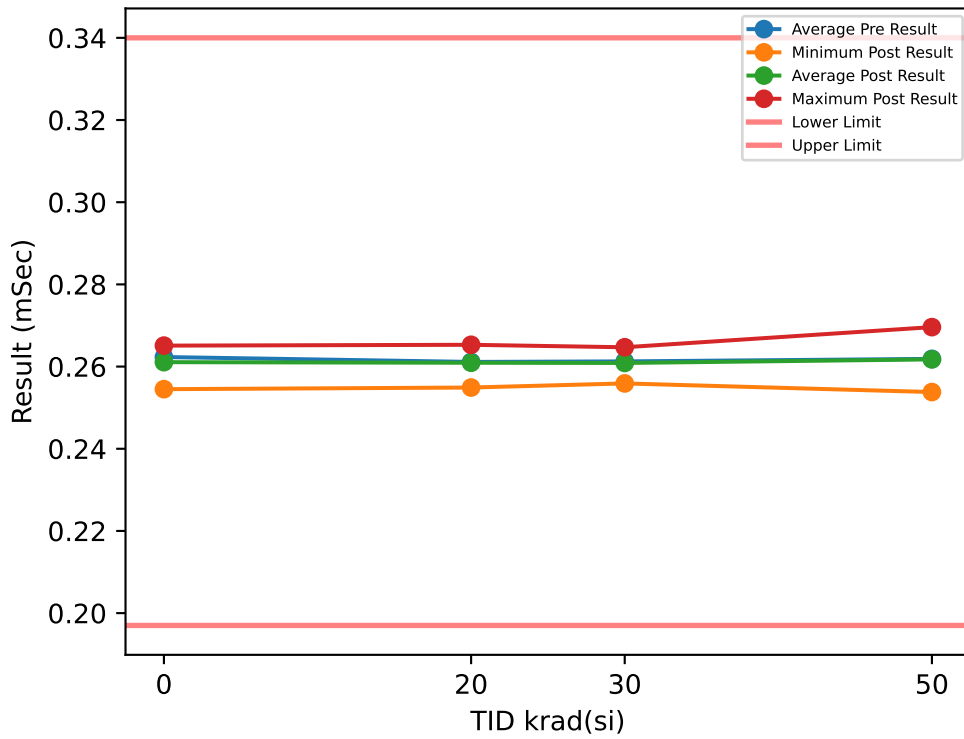
# Device Test: 18.14  REG_TIME_10KOHM(_DELAY|TIMING/SENSE2/1.6/14/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2655 | 0.265 | -0.0005 |
| 2 | 20 | Bias | 0.2652 | 0.2653 | 0.0001 |
| 3 | 20 | Bias | 0.2648 | 0.2648 | 0 |
| 4 | 20 | Bias | 0.2644 | 0.2629 | -0.0015 |
| 5 | 20 | Bias | 0.2566 | 0.2579 | 0.0013 |
| 6 | 20 | Unbiased | 0.2619 | 0.2617 | -0.0002 |
| 7 | 20 | Unbiased | 0.2624 | 0.2615 | -0.0009 |
| 8 | 20 | Unbiased | 0.2546 | 0.2549 | 0.0003 |
| 9 | 20 | Unbiased | 0.2584 | 0.2586 | 0.0002 |
| 10 | 20 | Unbiased | 0.2575 | 0.2567 | -0.0008 |
| 11 | 30 | Bias | 0.2591 | 0.2559 | -0.0032 |
| 12 | 30 | Bias | 0.2639 | 0.2591 | -0.0048 |
| 13 | 30 | Bias | 0.2576 | 0.2643 | 0.0067 |
| 14 | 30 | Bias | 0.2654 | 0.2579 | -0.0075 |
| 15 | 30 | Bias | 0.2633 | 0.2643 | 0.001 |
| 16 | 30 | Unbiased | 0.2569 | 0.2628 | 0.0059 |
| 17 | 30 | Unbiased | 0.2618 | 0.2571 | -0.0047 |
| 18 | 30 | Unbiased | 0.2644 | 0.2634 | -0.001 |
| 19 | 30 | Unbiased | 0.2589 | 0.2647 | 0.0058 |
| 20 | 30 | Unbiased | 0.2613 | 0.2593 | -0.002 |
| 21 | 50 | Bias | 0.2637 | 0.2613 | -0.0024 |
| 22 | 50 | Bias | 0.2601 | 0.2624 | 0.0023 |
| 23 | 50 | Bias | 0.2563 | 0.2606 | 0.0043 |
| 24 | 50 | Bias | 0.2635 | 0.2569 | -0.0066 |
| 25 | 50 | Bias | 0.2714 | 0.2696 | -0.0018 |
| 26 | 50 | Unbiased | 0.2569 | 0.2573 | 0.0004 |
| 27 | 50 | Unbiased | 0.254 | 0.2538 | -0.0002 |
| 28 | 50 | Unbiased | 0.2664 | 0.268 | 0.0016 |
| 29 | 50 | Unbiased | 0.2643 | 0.2642 | -0.0001 |
| 30 | 50 | Unbiased | 0.2621 | 0.2634 | 0.0013 |
| 31 | 0 | Correlation | 0.2641 | 0.2651 | 0.001 |
| 32 | 0 | Correlation | 0.262 | 0.2629 | 0.0009 |
| 33 | 0 | Correlation | 0.2619 | 0.2618 | -0.0001 |
| 34 | 0 | Correlation | 0.2613 | 0.2545 | -0.0068 |

## Test Statistics (mSec)
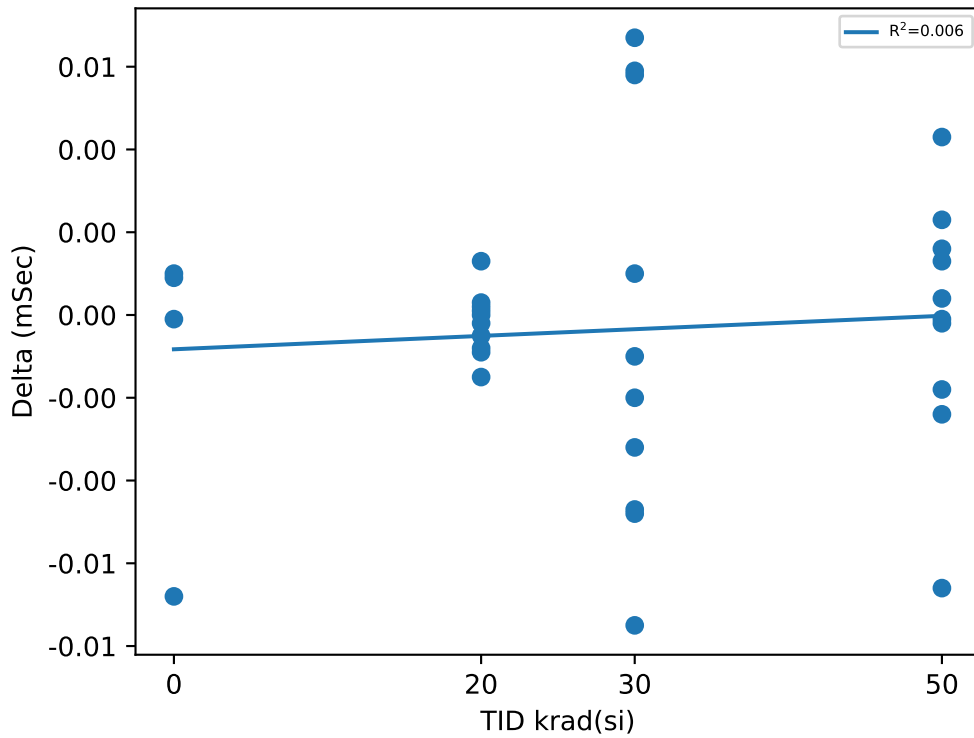
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2613 | 0.26233 | 0.2641 | 0.001223 | 0.2545 | 0.26108 | 0.2651 | 0.004593 | -0.0068 | -0.00125 | 0.001 | 0.0037332 |
| 20 | 0.2546 | 0.26113 | 0.2655 | 0.0040252 | 0.2549 | 0.26093 | 0.2653 | 0.0037163 | -0.0015 | -0.0002 | 0.0013 | 0.00077603 |
| 30 | 0.2569 | 0.26126 | 0.2654 | 0.0030012 | 0.2559 | 0.26088 | 0.2647 | 0.0033608 | -0.0075 | -0.00038 | 0.0067 | 0.0050499 |
| 50 | 0.254 | 0.26187 | 0.2714 | 0.0052079 | 0.2538 | 0.26175 | 0.2696 | 0.0049203 | -0.0066 | -0.00012 | 0.0043 | 0.0029936 |
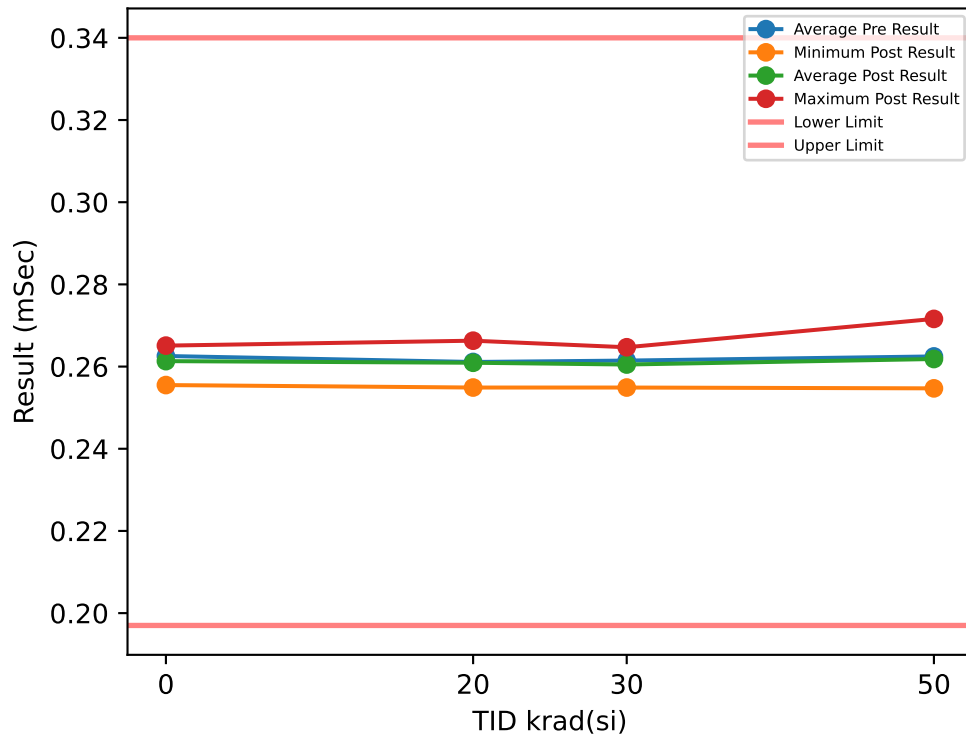
# Device Test: 18.15  REG_TIME_10KOHM(_DELAY|TIMING/SENSE3/1.6/14/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2645 | 0.265 | 0.0005 |
| 2 | 20 | Bias | 0.2662 | 0.2663 | 0.0001 |
| 3 | 20 | Bias | 0.2638 | 0.2648 | 0.001 |
| 4 | 20 | Bias | 0.2644 | 0.2629 | -0.0015 |
| 5 | 20 | Bias | 0.2566 | 0.2559 | -0.0007 |
| 6 | 20 | Unbiased | 0.2628 | 0.2617 | -0.0011 |
| 7 | 20 | Unbiased | 0.2634 | 0.2625 | -0.0009 |
| 8 | 20 | Unbiased | 0.2546 | 0.2549 | 0.0003 |
| 9 | 20 | Unbiased | 0.2574 | 0.2586 | 0.0012 |
| 10 | 20 | Unbiased | 0.2575 | 0.2567 | -0.0008 |
| 11 | 30 | Bias | 0.2591 | 0.2549 | -0.0042 |
| 12 | 30 | Bias | 0.2639 | 0.2591 | -0.0048 |
| 13 | 30 | Bias | 0.2586 | 0.2643 | 0.0057 |
| 14 | 30 | Bias | 0.2654 | 0.2569 | -0.0085 |
| 15 | 30 | Bias | 0.2643 | 0.2643 | 0 |
| 16 | 30 | Unbiased | 0.2579 | 0.2619 | 0.004 |
| 17 | 30 | Unbiased | 0.2618 | 0.2582 | -0.0036 |
| 18 | 30 | Unbiased | 0.2644 | 0.2614 | -0.003 |
| 19 | 30 | Unbiased | 0.2579 | 0.2647 | 0.0068 |
| 20 | 30 | Unbiased | 0.2613 | 0.2593 | -0.002 |
| 21 | 50 | Bias | 0.2637 | 0.2613 | -0.0024 |
| 22 | 50 | Bias | 0.2622 | 0.2624 | 0.0002 |
| 23 | 50 | Bias | 0.2563 | 0.2606 | 0.0043 |
| 24 | 50 | Bias | 0.2635 | 0.2569 | -0.0066 |
| 25 | 50 | Bias | 0.2704 | 0.2716 | 0.0012 |
| 26 | 50 | Unbiased | 0.2589 | 0.2573 | -0.0016 |
| 27 | 50 | Unbiased | 0.255 | 0.2547 | -0.0003 |
| 28 | 50 | Unbiased | 0.2674 | 0.267 | -0.0004 |
| 29 | 50 | Unbiased | 0.2642 | 0.2642 | 0 |
| 30 | 50 | Unbiased | 0.2631 | 0.2624 | -0.0007 |
| 31 | 0 | Correlation | 0.2641 | 0.2651 | 0.001 |
| 32 | 0 | Correlation | 0.263 | 0.2629 | -0.0001 |
| 33 | 0 | Correlation | 0.2619 | 0.2618 | -0.0001 |
| 34 | 0 | Correlation | 0.2613 | 0.2555 | -0.0058 |

## Test Statistics (mSec)
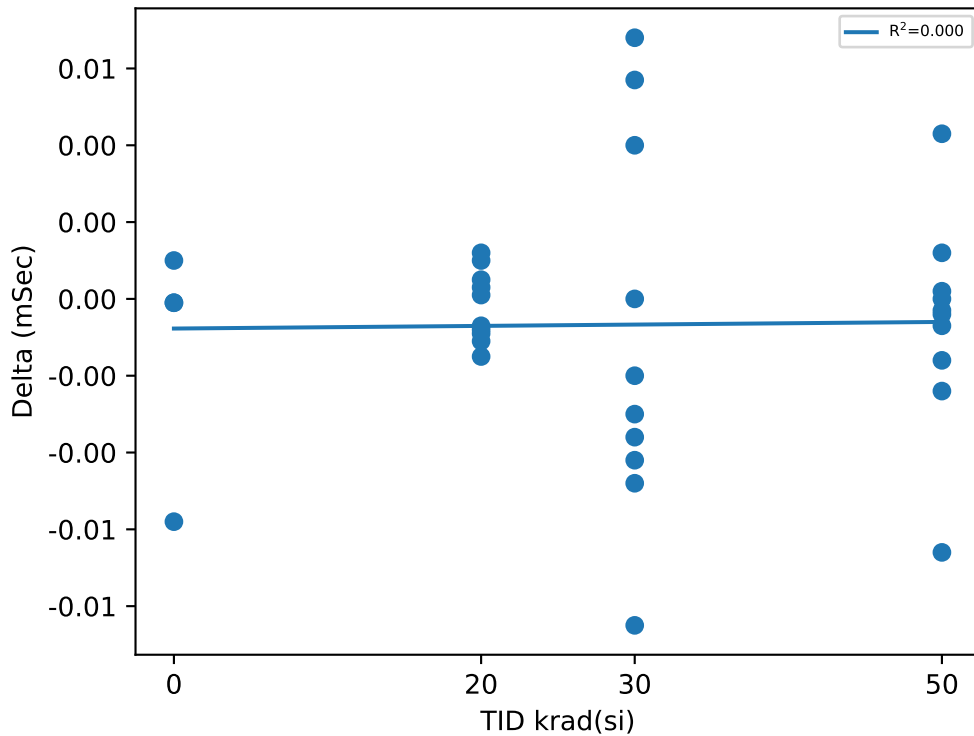
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2613 | 0.26258 | 0.2641 | 0.0012366 | 0.2555 | 0.26133 | 0.2651 | 0.0041186 | -0.0058 | -0.00125 | 0.001 | 0.0030773 |
| 20 | 0.2546 | 0.26112 | 0.2662 | 0.0041241 | 0.2549 | 0.26093 | 0.2663 | 0.0041137 | -0.0015 | -0.00019 | 0.0012 | 0.00093268 |
| 30 | 0.2579 | 0.26146 | 0.2654 | 0.002933 | 0.2549 | 0.2605 | 0.2647 | 0.0033714 | -0.0085 | -0.00096 | 0.0068 | 0.0049934 |
| 50 | 0.255 | 0.26247 | 0.2704 | 0.0047122 | 0.2547 | 0.26184 | 0.2716 | 0.00501 | -0.0066 | -0.00063 | 0.0043 | 0.0027613 |
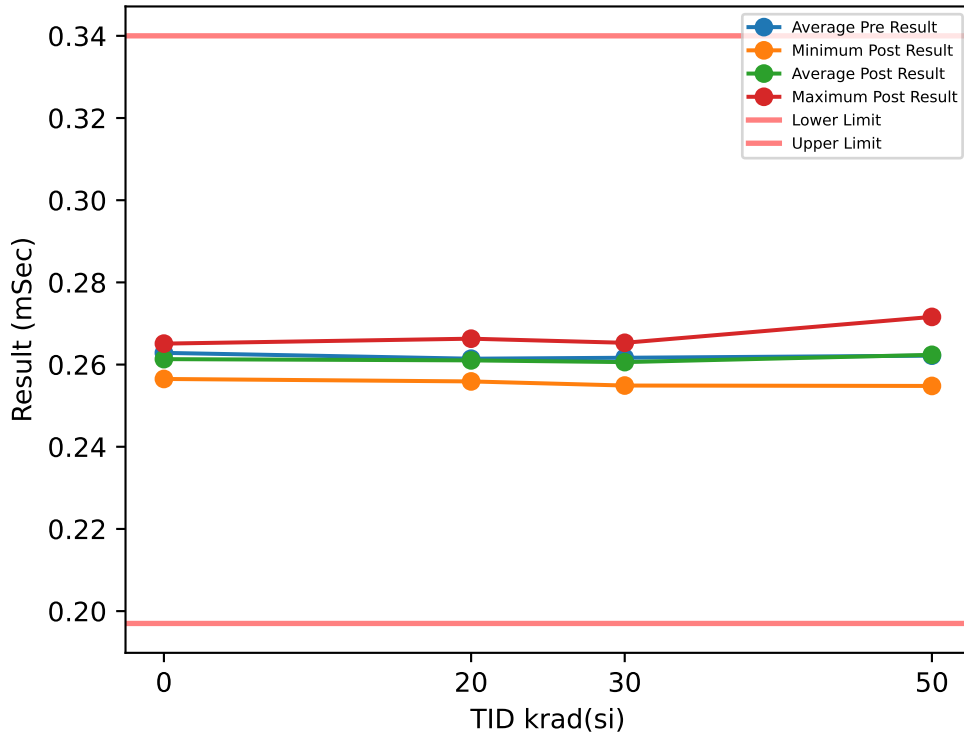
# Device Test: 18.16  REG_TIME_10KOHM(_DELAY|TIMING/SENSE4/1.6/14/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2666 | 0.2639 | -0.0027 |
| 2 | 20 | Bias | 0.2672 | 0.2663 | -0.0009 |
| 3 | 20 | Bias | 0.2648 | 0.2648 | 0 |
| 4 | 20 | Bias | 0.2634 | 0.2629 | -0.0005 |
| 5 | 20 | Bias | 0.2566 | 0.2559 | -0.0007 |
| 6 | 20 | Unbiased | 0.2628 | 0.2627 | -0.0001 |
| 7 | 20 | Unbiased | 0.2624 | 0.2625 | 0.0001 |
| 8 | 20 | Unbiased | 0.2556 | 0.2559 | 0.0003 |
| 9 | 20 | Unbiased | 0.2574 | 0.2586 | 0.0012 |
| 10 | 20 | Unbiased | 0.2575 | 0.2567 | -0.0008 |
| 11 | 30 | Bias | 0.2601 | 0.2549 | -0.0052 |
| 12 | 30 | Bias | 0.2639 | 0.2602 | -0.0037 |
| 13 | 30 | Bias | 0.2586 | 0.2633 | 0.0047 |
| 14 | 30 | Bias | 0.2644 | 0.2579 | -0.0065 |
| 15 | 30 | Bias | 0.2634 | 0.2653 | 0.0019 |
| 16 | 30 | Unbiased | 0.2569 | 0.2629 | 0.006 |
| 17 | 30 | Unbiased | 0.2637 | 0.2561 | -0.0076 |
| 18 | 30 | Unbiased | 0.2654 | 0.2624 | -0.003 |
| 19 | 30 | Unbiased | 0.2579 | 0.2647 | 0.0068 |
| 20 | 30 | Unbiased | 0.2623 | 0.2583 | -0.004 |
| 21 | 50 | Bias | 0.2627 | 0.2613 | -0.0014 |
| 22 | 50 | Bias | 0.2611 | 0.2634 | 0.0023 |
| 23 | 50 | Bias | 0.2573 | 0.2626 | 0.0053 |
| 24 | 50 | Bias | 0.2635 | 0.2578 | -0.0057 |
| 25 | 50 | Bias | 0.2704 | 0.2716 | 0.0012 |
| 26 | 50 | Unbiased | 0.2579 | 0.2573 | -0.0006 |
| 27 | 50 | Unbiased | 0.256 | 0.2548 | -0.0012 |
| 28 | 50 | Unbiased | 0.2674 | 0.2681 | 0.0007 |
| 29 | 50 | Unbiased | 0.2633 | 0.2643 | 0.001 |
| 30 | 50 | Unbiased | 0.2621 | 0.2625 | 0.0004 |
| 31 | 0 | Correlation | 0.2651 | 0.2651 | 0 |
| 32 | 0 | Correlation | 0.262 | 0.2619 | -0.0001 |
| 33 | 0 | Correlation | 0.2619 | 0.2618 | -0.0001 |
| 34 | 0 | Correlation | 0.2624 | 0.2565 | -0.0059 |

## Test Statistics (mSec)
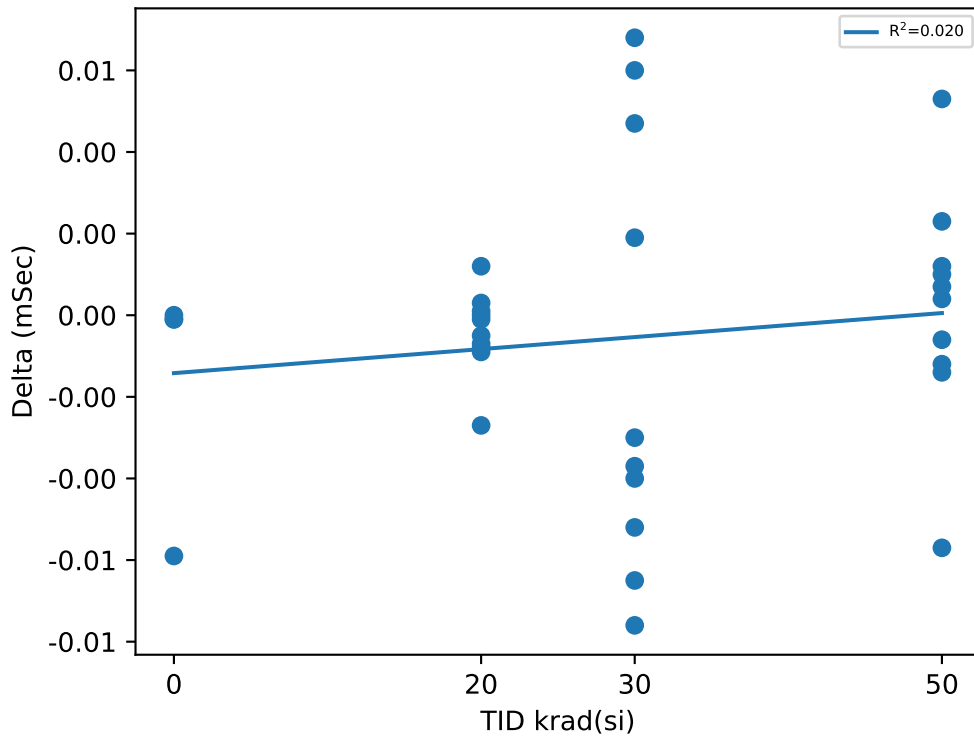
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2619 | 0.26285 | 0.2651 | 0.0015155 | 0.2565 | 0.26133 | 0.2651 | 0.0035631 | -0.0059 | -0.001525 | 0 | 0.002917 |
| 20 | 0.2556 | 0.26143 | 0.2672 | 0.0043087 | 0.2559 | 0.26102 | 0.2663 | 0.0038867 | -0.0027 | -0.00041 | 0.0012 | 0.0010192 |
| 30 | 0.2569 | 0.26166 | 0.2654 | 0.0030314 | 0.2549 | 0.2606 | 0.2653 | 0.0036545 | -0.0076 | -0.00106 | 0.0068 | 0.0054 |
| 50 | 0.256 | 0.26217 | 0.2704 | 0.0044669 | 0.2548 | 0.26237 | 0.2716 | 0.0050324 | -0.0057 | 0.0002 | 0.0053 | 0.0028347 |
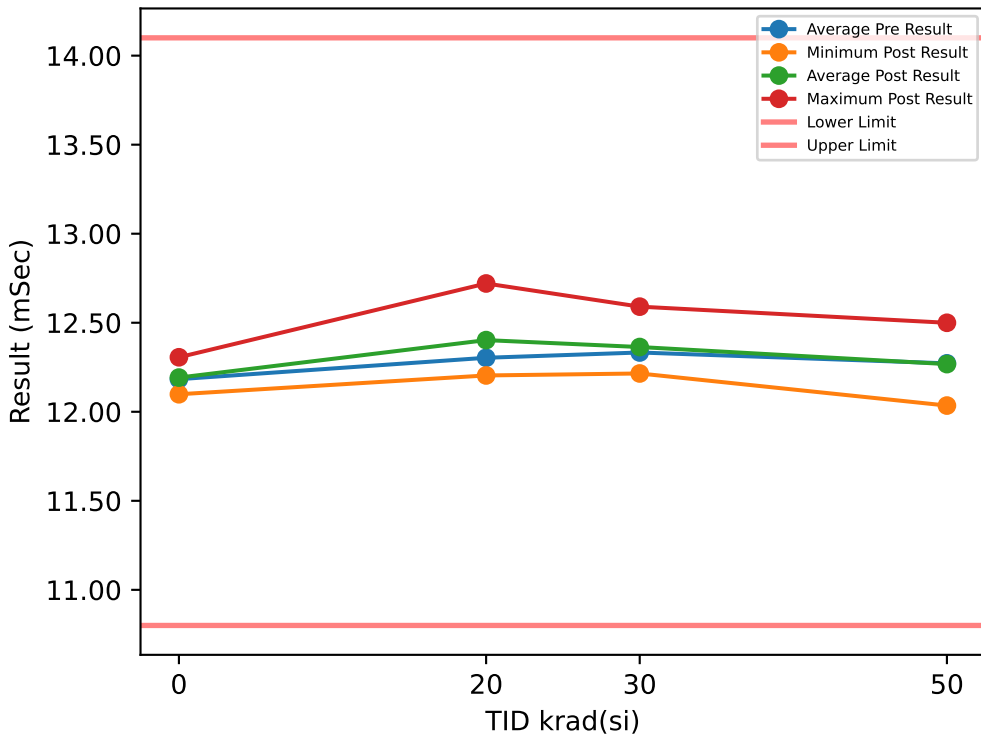
# Device Test: 18.17  REG_TIME_500KOHM(_DELAY|TIMING/SENSE1/1.6/14/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.391 | 12.599 | 0.2078 |
| 2 | 20 | Bias | 12.515 | 12.72 | 0.2057 |
| 3 | 20 | Bias | 12.452 | 12.482 | 0.0301 |
| 4 | 20 | Bias | 12.224 | 12.331 | 0.1073 |
| 5 | 20 | Bias | 12.215 | 12.396 | 0.1807 |
| 6 | 20 | Unbiased | 12.248 | 12.257 | 0.009 |
| 7 | 20 | Unbiased | 12.275 | 12.3 | 0.0247 |
| 8 | 20 | Unbiased | 12.338 | 12.204 | -0.1337 |
| 9 | 20 | Unbiased | 12.137 | 12.289 | 0.1522 |
| 10 | 20 | Unbiased | 12.238 | 12.446 | 0.2076 |
| 11 | 30 | Bias | 12.134 | 12.347 | 0.2129 |
| 12 | 30 | Bias | 12.159 | 12.281 | 0.122 |
| 13 | 30 | Bias | 12.576 | 12.337 | -0.2398 |
| 14 | 30 | Bias | 12.473 | 12.346 | -0.1266 |
| 15 | 30 | Bias | 12.393 | 12.446 | 0.0527 |
| 16 | 30 | Unbiased | 12.133 | 12.215 | 0.0818 |
| 17 | 30 | Unbiased | 12.438 | 12.219 | -0.2186 |
| 18 | 30 | Unbiased | 12.501 | 12.437 | -0.0639 |
| 19 | 30 | Unbiased | 12.324 | 12.59 | 0.2663 |
| 20 | 30 | Unbiased | 12.198 | 12.418 | 0.2205 |
| 21 | 50 | Bias | 12.241 | 12.124 | -0.1175 |
| 22 | 50 | Bias | 12.121 | 12.239 | 0.1179 |
| 23 | 50 | Bias | 12.217 | 12.035 | -0.1825 |
| 24 | 50 | Bias | 12.42 | 12.292 | -0.1279 |
| 25 | 50 | Bias | 12.41 | 12.318 | -0.092 |
| 26 | 50 | Unbiased | 12.124 | 12.159 | 0.0348 |
| 27 | 50 | Unbiased | 12.313 | 12.219 | -0.0944 |
| 28 | 50 | Unbiased | 12.478 | 12.447 | -0.0305 |
| 29 | 50 | Unbiased | 12.21 | 12.5 | 0.2895 |
| 30 | 50 | Unbiased | 12.184 | 12.345 | 0.1605 |
| 31 | 0 | Correlation | 12.144 | 12.162 | 0.0179 |
| 32 | 0 | Correlation | 12.115 | 12.098 | -0.0168 |
| 33 | 0 | Correlation | 12.232 | 12.202 | -0.0303 |
| 34 | 0 | Correlation | 12.241 | 12.306 | 0.0652 |

## Test Statistics (mSec)
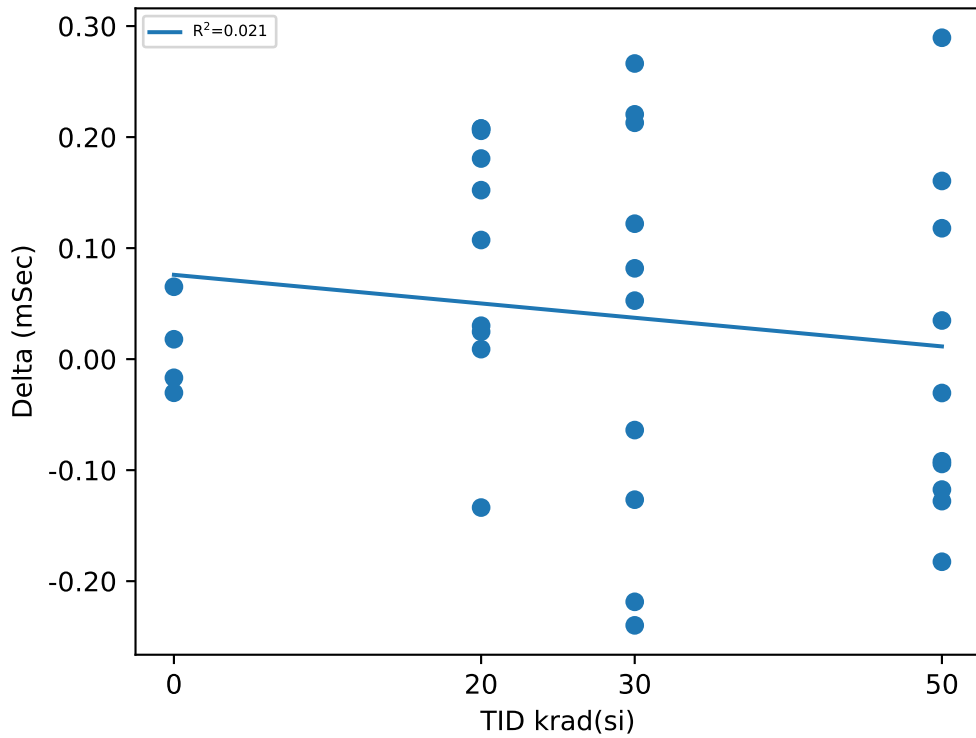
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.115 | 12.183 | 12.241 | 0.062931 | 12.098 | 12.192 | 12.306 | 0.087143 | -0.0303 | 0.009 | 0.0652 | 0.042614 |
| 20 | 12.137 | 12.303 | 12.515 | 0.11809 | 12.204 | 12.402 | 12.72 | 0.16224 | -0.1337 | 0.09914 | 0.2078 | 0.11407 |
| 30 | 12.133 | 12.333 | 12.576 | 0.16653 | 12.215 | 12.364 | 12.59 | 0.11431 | -0.2398 | 0.03073 | 0.2663 | 0.18414 |
| 50 | 12.121 | 12.272 | 12.478 | 0.12693 | 12.035 | 12.268 | 12.5 | 0.14343 | -0.1825 | -0.00421 | 0.2895 | 0.15139 |
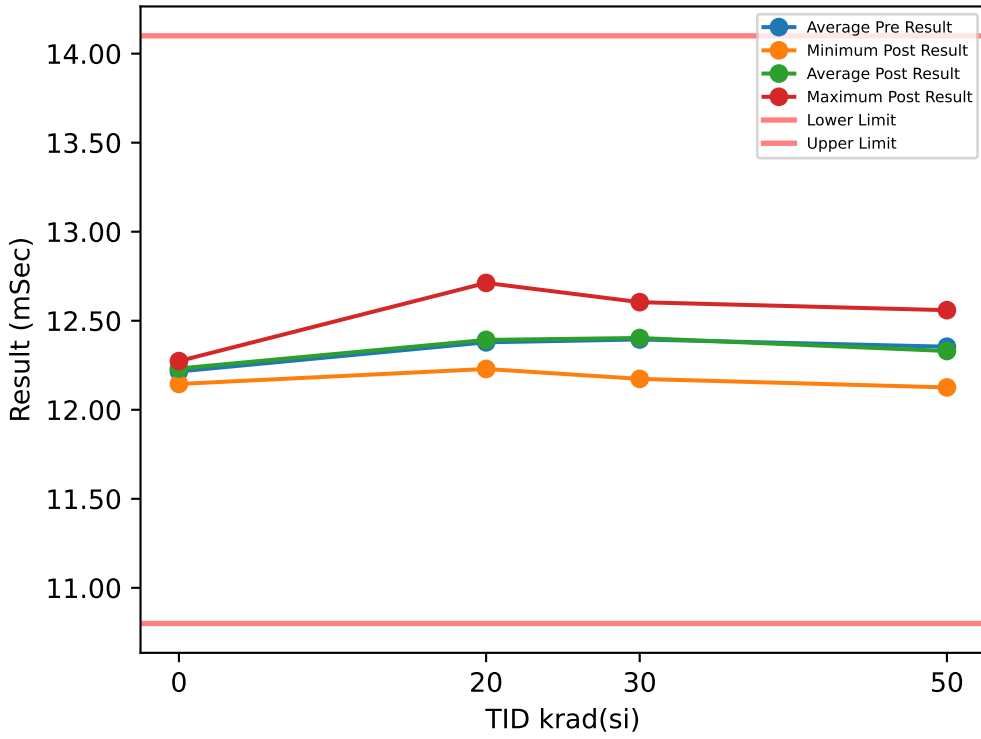
# Device Test: 18.18 REG_TIME_500KOHM(_DELAY|TIMING/SENSE2/1.6/14/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.504 | 12.553 | 0.0494 |
| 2 | 20 | Bias | 12.629 | 12.712 | 0.0835 |
| 3 | 20 | Bias | 12.523 | 12.584 | 0.0608 |
| 4 | 20 | Bias | 12.347 | 12.261 | -0.0867 |
| 5 | 20 | Bias | 12.374 | 12.415 | 0.0413 |
| 6 | 20 | Unbiased | 12.206 | 12.25 | 0.0444 |
| 7 | 20 | Unbiased | 12.276 | 12.229 | -0.0472 |
| 8 | 20 | Unbiased | 12.317 | 12.288 | -0.0294 |
| 9 | 20 | Unbiased | 12.224 | 12.256 | 0.0326 |
| 10 | 20 | Unbiased | 12.388 | 12.375 | -0.0129 |
| 11 | 30 | Bias | 12.252 | 12.334 | 0.0814 |
| 12 | 30 | Bias | 12.294 | 12.307 | 0.0127 |
| 13 | 30 | Bias | 12.601 | 12.348 | -0.2536 |
| 14 | 30 | Bias | 12.577 | 12.459 | -0.1186 |
| 15 | 30 | Bias | 12.342 | 12.553 | 0.2111 |
| 16 | 30 | Unbiased | 12.264 | 12.325 | 0.0605 |
| 17 | 30 | Unbiased | 12.549 | 12.174 | -0.3754 |
| 18 | 30 | Unbiased | 12.507 | 12.57 | 0.0628 |
| 19 | 30 | Unbiased | 12.277 | 12.604 | 0.327 |
| 20 | 30 | Unbiased | 12.285 | 12.36 | 0.0751 |
| 21 | 50 | Bias | 12.406 | 12.233 | -0.1724 |
| 22 | 50 | Bias | 12.102 | 12.299 | 0.1967 |
| 23 | 50 | Bias | 12.333 | 12.126 | -0.2071 |
| 24 | 50 | Bias | 12.519 | 12.268 | -0.251 |
| 25 | 50 | Bias | 12.388 | 12.496 | 0.1078 |
| 26 | 50 | Unbiased | 12.252 | 12.253 | 0.0017 |
| 27 | 50 | Unbiased | 12.304 | 12.214 | -0.0898 |
| 28 | 50 | Unbiased | 12.554 | 12.559 | 0.005 |
| 29 | 50 | Unbiased | 12.376 | 12.505 | 0.129 |
| 30 | 50 | Unbiased | 12.308 | 12.347 | 0.0391 |
| 31 | 0 | Correlation | 12.166 | 12.145 | -0.0214 |
| 32 | 0 | Correlation | 12.278 | 12.273 | -0.0047 |
| 33 | 0 | Correlation | 12.225 | 12.239 | 0.0134 |
| 34 | 0 | Correlation | 12.191 | 12.271 | 0.0798 |

## Test Statistics (mSec)
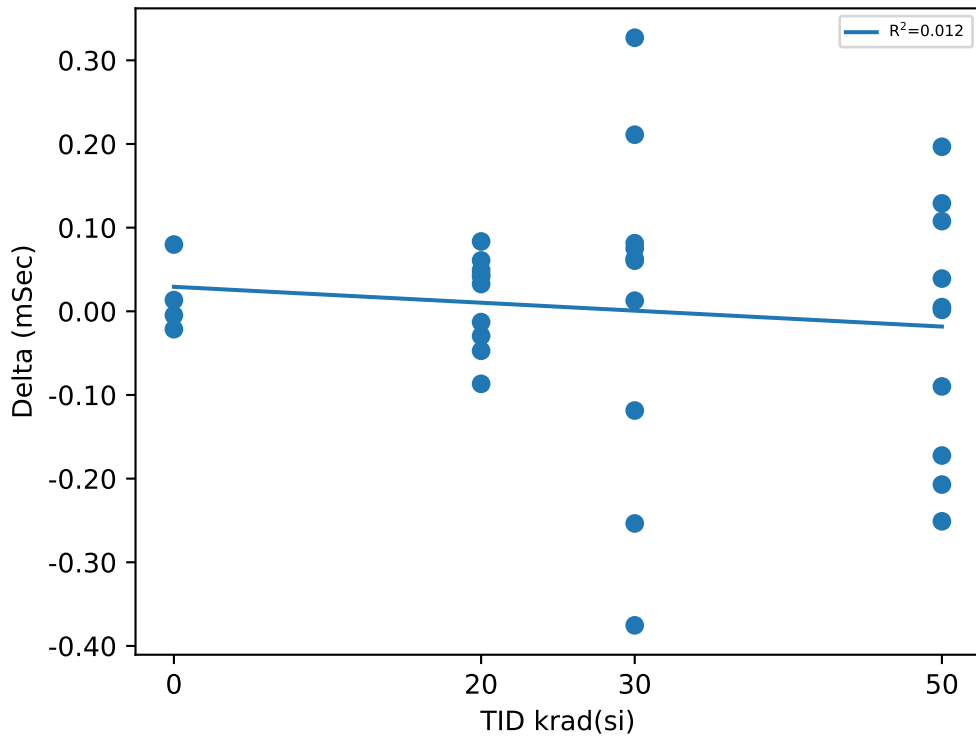
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.166 | 12.215 | 12.278 | 0.048379 | 12.145 | 12.232 | 12.273 | 0.060176 | -0.0214 | 0.016775 | 0.0798 | 0.044355 |
| 20 | 12.206 | 12.379 | 12.629 | 0.13682 | 12.229 | 12.392 | 12.712 | 0.16982 | -0.0867 | 0.01358 | 0.0835 | 0.054549 |
| 30 | 12.252 | 12.395 | 12.601 | 0.14466 | 12.174 | 12.403 | 12.604 | 0.13808 | -0.3754 | 0.0083 | 0.327 | 0.2082 |
| 50 | 12.102 | 12.354 | 12.554 | 0.12948 | 12.126 | 12.33 | 12.559 | 0.14395 | -0.251 | -0.0241 | 0.1967 | 0.15143 |
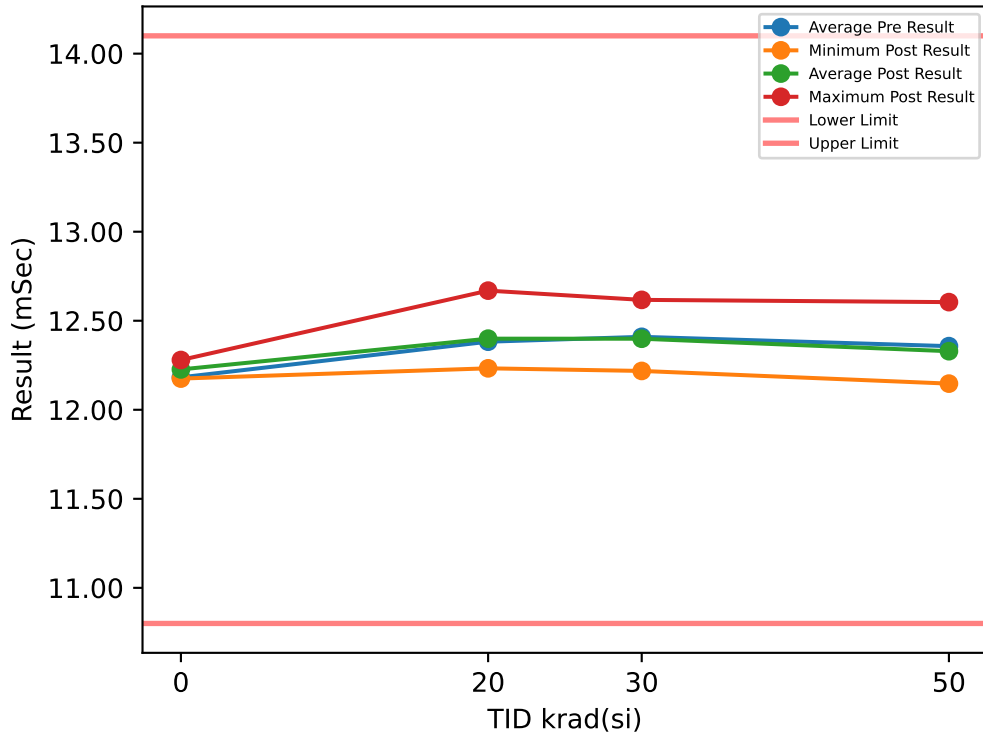
# Device Test: 18.19  REG_TIME_500KOHM(_DELAY|TIMING/SENSE3/1.6/14/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.561 | 12.541 | -0.0206 |
| 2 | 20 | Bias | 12.624 | 12.669 | 0.0452 |
| 3 | 20 | Bias | 12.522 | 12.668 | 0.1458 |
| 4 | 20 | Bias | 12.354 | 12.251 | -0.1029 |
| 5 | 20 | Bias | 12.309 | 12.365 | 0.0555 |
| 6 | 20 | Unbiased | 12.237 | 12.233 | -0.0038 |
| 7 | 20 | Unbiased | 12.262 | 12.242 | -0.0204 |
| 8 | 20 | Unbiased | 12.336 | 12.309 | -0.0264 |
| 9 | 20 | Unbiased | 12.264 | 12.298 | 0.0344 |
| 10 | 20 | Unbiased | 12.354 | 12.418 | 0.0637 |
| 11 | 30 | Bias | 12.296 | 12.279 | -0.0175 |
| 12 | 30 | Bias | 12.289 | 12.233 | -0.0559 |
| 13 | 30 | Bias | 12.593 | 12.269 | -0.3239 |
| 14 | 30 | Bias | 12.584 | 12.433 | -0.151 |
| 15 | 30 | Bias | 12.402 | 12.617 | 0.2149 |
| 16 | 30 | Unbiased | 12.224 | 12.335 | 0.1115 |
| 17 | 30 | Unbiased | 12.624 | 12.218 | -0.4056 |
| 18 | 30 | Unbiased | 12.496 | 12.616 | 0.1198 |
| 19 | 30 | Unbiased | 12.306 | 12.587 | 0.2807 |
| 20 | 30 | Unbiased | 12.282 | 12.402 | 0.1203 |
| 21 | 50 | Bias | 12.38 | 12.266 | -0.1141 |
| 22 | 50 | Bias | 12.096 | 12.251 | 0.1548 |
| 23 | 50 | Bias | 12.335 | 12.147 | -0.1876 |
| 24 | 50 | Bias | 12.594 | 12.248 | -0.3462 |
| 25 | 50 | Bias | 12.448 | 12.483 | 0.035 |
| 26 | 50 | Unbiased | 12.297 | 12.259 | -0.0384 |
| 27 | 50 | Unbiased | 12.278 | 12.221 | -0.0567 |
| 28 | 50 | Unbiased | 12.561 | 12.605 | 0.0434 |
| 29 | 50 | Unbiased | 12.326 | 12.472 | 0.1461 |
| 30 | 50 | Unbiased | 12.258 | 12.338 | 0.0794 |
| 31 | 0 | Correlation | 12.125 | 12.175 | 0.0501 |
| 32 | 0 | Correlation | 12.195 | 12.28 | 0.0842 |
| 33 | 0 | Correlation | 12.221 | 12.192 | -0.0294 |
| 34 | 0 | Correlation | 12.187 | 12.26 | 0.0725 |

## Test Statistics (mSec)
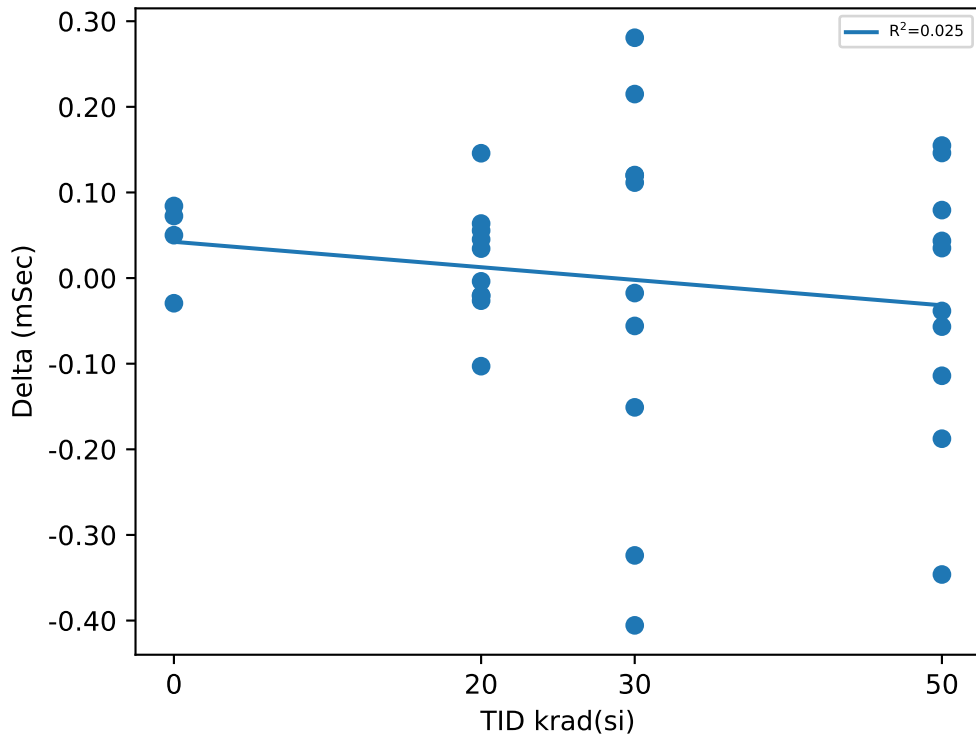
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.125 | 12.182 | 12.221 | 0.040775 | 12.175 | 12.227 | 12.28 | 0.050837 | -0.0294 | 0.04435 | 0.0842 | 0.051162 |
| 20 | 12.237 | 12.382 | 12.624 | 0.13688 | 12.233 | 12.399 | 12.669 | 0.16964 | -0.1029 | 0.01705 | 0.1458 | 0.067376 |
| 30 | 12.224 | 12.41 | 12.624 | 0.15142 | 12.218 | 12.399 | 12.617 | 0.15862 | -0.4056 | -0.01067 | 0.2807 | 0.22626 |
| 50 | 12.096 | 12.357 | 12.594 | 0.14749 | 12.147 | 12.329 | 12.605 | 0.14395 | -0.3462 | -0.02843 | 0.1548 | 0.15613 |
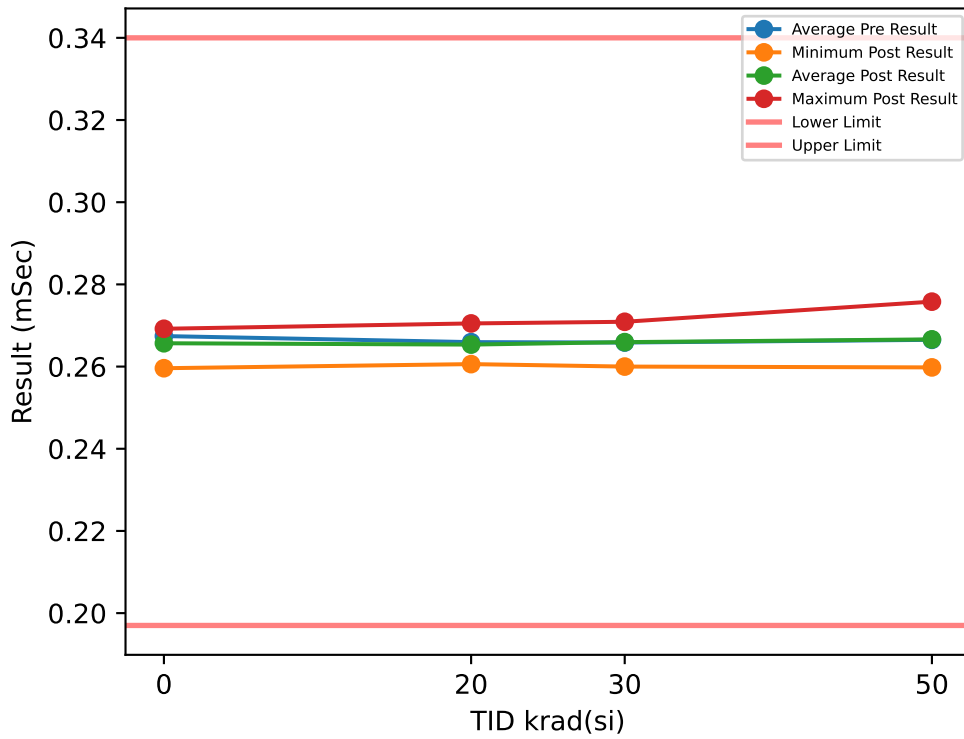
# Device Test: 18.2   REG_TIME_10KOHM(_DELAY|TIMING/SENSE2/1.6/3/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2707 | 0.2681 | -0.0026 |
| 2 | 20 | Bias | 0.2703 | 0.2705 | 0.0002 |
| 3 | 20 | Bias | 0.27 | 0.27 | 0 |
| 4 | 20 | Bias | 0.2675 | 0.267 | -0.0005 |
| 5 | 20 | Bias | 0.2606 | 0.2609 | 0.0003 |
| 6 | 20 | Unbiased | 0.2681 | 0.266 | -0.0021 |
| 7 | 20 | Unbiased | 0.2675 | 0.2676 | 0.0001 |
| 8 | 20 | Unbiased | 0.2598 | 0.2611 | 0.0013 |
| 9 | 20 | Unbiased | 0.2625 | 0.2617 | -0.0008 |
| 10 | 20 | Unbiased | 0.2625 | 0.2606 | -0.0019 |
| 11 | 30 | Bias | 0.2653 | 0.26 | -0.0053 |
| 12 | 30 | Bias | 0.2689 | 0.2654 | -0.0035 |
| 13 | 30 | Bias | 0.2626 | 0.2704 | 0.0078 |
| 14 | 30 | Bias | 0.2695 | 0.262 | -0.0075 |
| 15 | 30 | Bias | 0.2675 | 0.2695 | 0.002 |
| 16 | 30 | Unbiased | 0.261 | 0.2681 | 0.0071 |
| 17 | 30 | Unbiased | 0.2669 | 0.2623 | -0.0046 |
| 18 | 30 | Unbiased | 0.2685 | 0.2676 | -0.0009 |
| 19 | 30 | Unbiased | 0.2629 | 0.2709 | 0.008 |
| 20 | 30 | Unbiased | 0.2654 | 0.2633 | -0.0021 |
| 21 | 50 | Bias | 0.2678 | 0.2665 | -0.0013 |
| 22 | 50 | Bias | 0.2662 | 0.2686 | 0.0024 |
| 23 | 50 | Bias | 0.2623 | 0.2657 | 0.0034 |
| 24 | 50 | Bias | 0.2666 | 0.261 | -0.0056 |
| 25 | 50 | Bias | 0.2744 | 0.2758 | 0.0014 |
| 26 | 50 | Unbiased | 0.2619 | 0.2615 | -0.0004 |
| 27 | 50 | Unbiased | 0.26 | 0.2598 | -0.0002 |
| 28 | 50 | Unbiased | 0.2704 | 0.2712 | 0.0008 |
| 29 | 50 | Unbiased | 0.2694 | 0.2685 | -0.0009 |
| 30 | 50 | Unbiased | 0.2661 | 0.2676 | 0.0015 |
| 31 | 0 | Correlation | 0.2703 | 0.2692 | -0.0011 |
| 32 | 0 | Correlation | 0.2661 | 0.268 | 0.0019 |
| 33 | 0 | Correlation | 0.2669 | 0.2659 | -0.001 |
| 34 | 0 | Correlation | 0.2664 | 0.2596 | -0.0068 |

## Test Statistics (mSec)
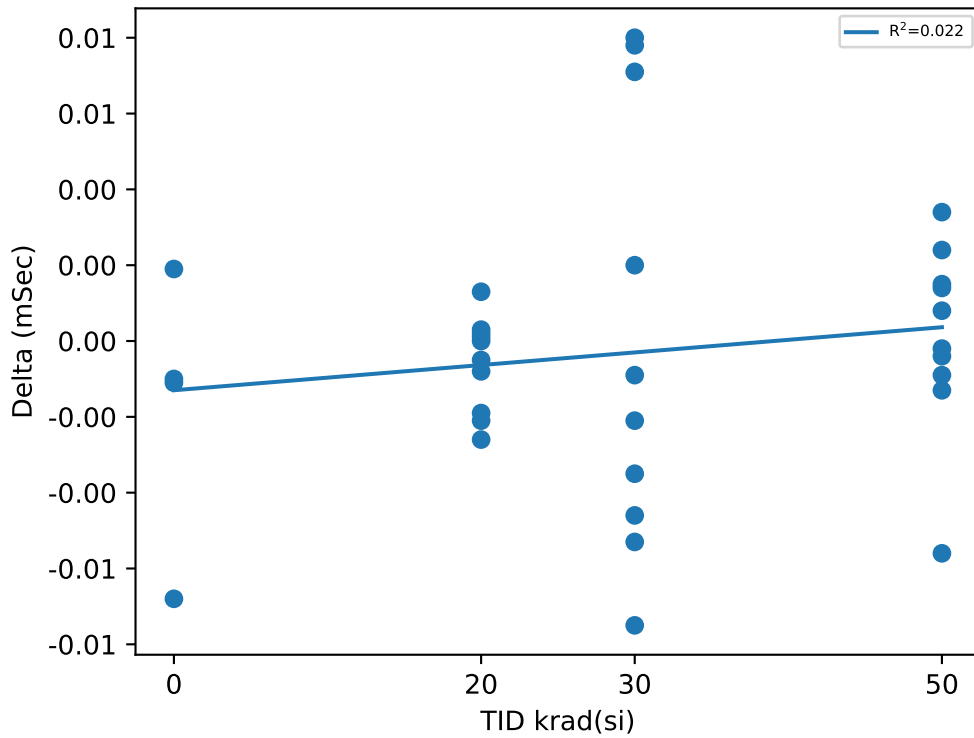
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2661 | 0.26743 | 0.2703 | 0.0019449 | 0.2596 | 0.26567 | 0.2692 | 0.0042735 | -0.0068 | -0.00175 | 0.0019 | 0.0036428 |
| 20 | 0.2598 | 0.26595 | 0.2707 | 0.0041842 | 0.2606 | 0.26535 | 0.2705 | 0.003911 | -0.0026 | -0.0006 | 0.0013 | 0.0012428 |
| 30 | 0.261 | 0.26585 | 0.2695 | 0.0029205 | 0.26 | 0.26595 | 0.2709 | 0.0038859 | -0.0075 | 0.0001 | 0.008 | 0.0057939 |
| 50 | 0.26 | 0.26651 | 0.2744 | 0.0043337 | 0.2598 | 0.26662 | 0.2758 | 0.004931 | -0.0056 | 0.00011 | 0.0034 | 0.0024969 |
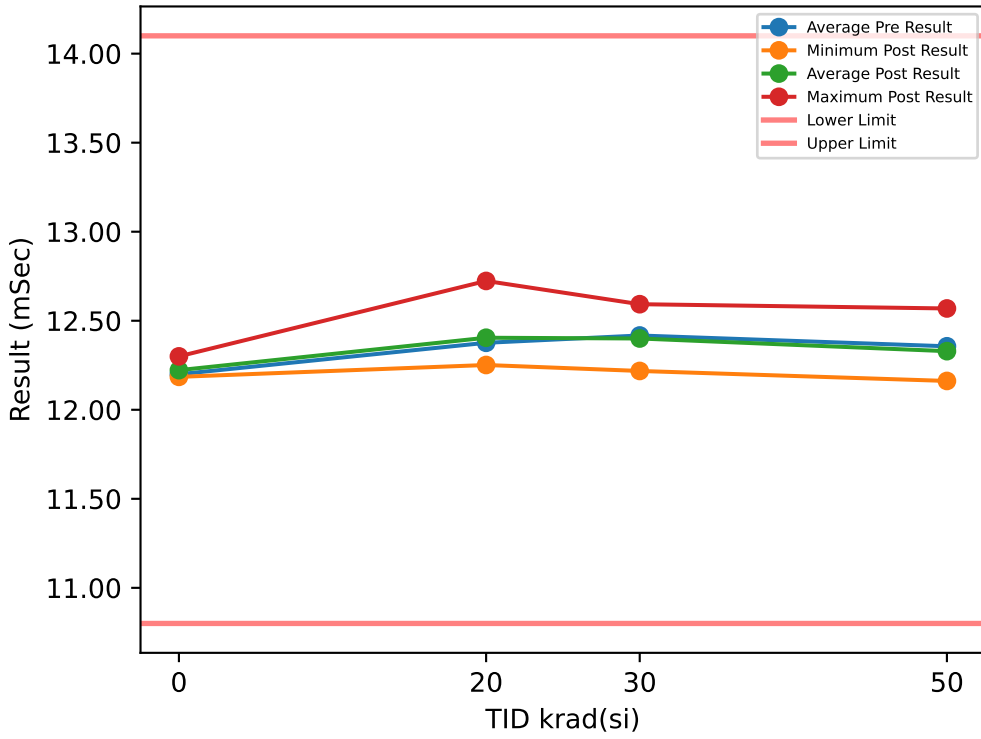
# Device Test: 18.20  REG_TIME_500KOHM(_DELAY|TIMING/SENSE4/1.6/14/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.507 | 12.542 | 0.0347 |
| 2 | 20 | Bias | 12.613 | 12.723 | 0.1109 |
| 3 | 20 | Bias | 12.592 | 12.641 | 0.0489 |
| 4 | 20 | Bias | 12.324 | 12.341 | 0.0168 |
| 5 | 20 | Bias | 12.323 | 12.332 | 0.0088 |
| 6 | 20 | Unbiased | 12.248 | 12.252 | 0.003 |
| 7 | 20 | Unbiased | 12.22 | 12.273 | 0.0535 |
| 8 | 20 | Unbiased | 12.298 | 12.266 | -0.0324 |
| 9 | 20 | Unbiased | 12.268 | 12.282 | 0.0138 |
| 10 | 20 | Unbiased | 12.368 | 12.394 | 0.0263 |
| 11 | 30 | Bias | 12.299 | 12.282 | -0.0167 |
| 12 | 30 | Bias | 12.32 | 12.277 | -0.0424 |
| 13 | 30 | Bias | 12.567 | 12.293 | -0.2735 |
| 14 | 30 | Bias | 12.653 | 12.439 | -0.2138 |
| 15 | 30 | Bias | 12.343 | 12.587 | 0.2439 |
| 16 | 30 | Unbiased | 12.297 | 12.37 | 0.0729 |
| 17 | 30 | Unbiased | 12.588 | 12.218 | -0.3699 |
| 18 | 30 | Unbiased | 12.466 | 12.582 | 0.1158 |
| 19 | 30 | Unbiased | 12.33 | 12.593 | 0.2628 |
| 20 | 30 | Unbiased | 12.31 | 12.362 | 0.0521 |
| 21 | 50 | Bias | 12.317 | 12.276 | -0.0404 |
| 22 | 50 | Bias | 12.133 | 12.243 | 0.1097 |
| 23 | 50 | Bias | 12.297 | 12.181 | -0.1165 |
| 24 | 50 | Bias | 12.571 | 12.235 | -0.3365 |
| 25 | 50 | Bias | 12.4 | 12.468 | 0.0677 |
| 26 | 50 | Unbiased | 12.296 | 12.262 | -0.0342 |
| 27 | 50 | Unbiased | 12.264 | 12.162 | -0.1017 |
| 28 | 50 | Unbiased | 12.633 | 12.569 | -0.0639 |
| 29 | 50 | Unbiased | 12.322 | 12.518 | 0.1961 |
| 30 | 50 | Unbiased | 12.332 | 12.377 | 0.0452 |
| 31 | 0 | Correlation | 12.18 | 12.188 | 0.0079 |
| 32 | 0 | Correlation | 12.229 | 12.218 | -0.0118 |
| 33 | 0 | Correlation | 12.16 | 12.185 | 0.0252 |
| 34 | 0 | Correlation | 12.23 | 12.3 | 0.0699 |

## Test Statistics (mSec)
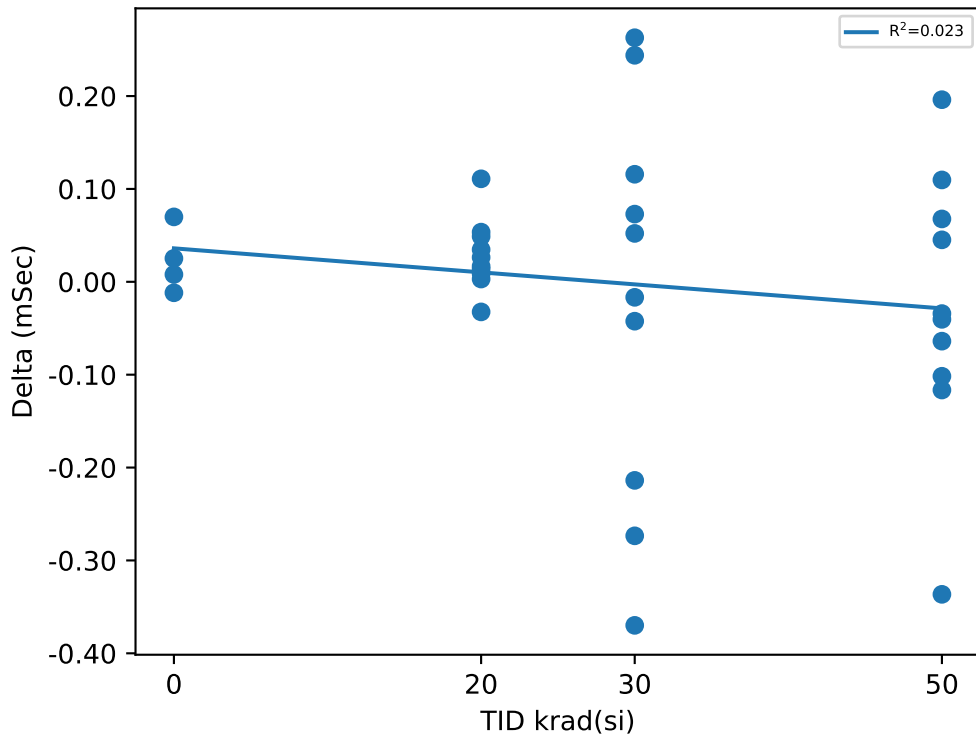
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.16 | 12.2 | 12.23 | 0.03561 | 12.185 | 12.222 | 12.3 | 0.053708 | -0.0118 | 0.0228 | 0.0699 | 0.034849 |
| 20 | 12.22 | 12.376 | 12.613 | 0.14282 | 12.252 | 12.405 | 12.723 | 0.17018 | -0.0324 | 0.02843 | 0.1109 | 0.037968 |
| 30 | 12.297 | 12.417 | 12.653 | 0.13831 | 12.218 | 12.4 | 12.593 | 0.14248 | -0.3699 | -0.01688 | 0.2628 | 0.21254 |
| 50 | 12.133 | 12.357 | 12.633 | 0.14654 | 12.162 | 12.329 | 12.569 | 0.14467 | -0.3365 | -0.02745 | 0.1961 | 0.14667 |
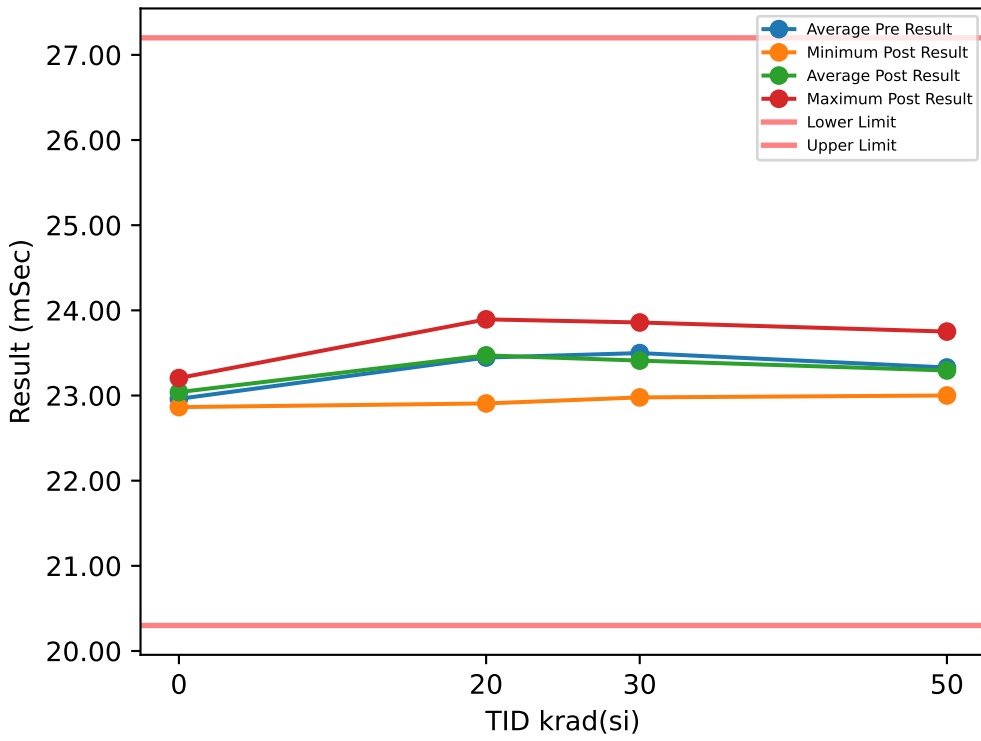
# Device Test: 18.21  REG_TIME_1MOHM(_DELAY|TIMING/SENSE1/1.6/14/0/1.18M/0/@REG_TIME_1MOHM )

### TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

### TID vs Post - Pre Exposure Delta



$R^2=0.012$

## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.848 | 23.536 | -0.3118 |
| 2 | 20 | Bias | 24.041 | 23.894 | -0.1469 |
| 3 | 20 | Bias | 23.869 | 23.723 | -0.1465 |
| 4 | 20 | Bias | 23.143 | 23.279 | 0.1354 |
| 5 | 20 | Bias | 23.607 | 23.689 | 0.0824 |
| 6 | 20 | Unbiased | 23.116 | 22.907 | -0.2095 |
| 7 | 20 | Unbiased | 22.894 | 23.26 | 0.3653 |
| 8 | 20 | Unbiased | 23.662 | 23.609 | -0.0532 |
| 9 | 20 | Unbiased | 23.008 | 23.426 | 0.4173 |
| 10 | 20 | Unbiased | 23.268 | 23.392 | 0.1239 |
| 11 | 30 | Bias | 23.057 | 23.278 | 0.2215 |
| 12 | 30 | Bias | 23.329 | 23.272 | -0.0571 |
| 13 | 30 | Bias | 23.768 | 23.306 | -0.462 |
| 14 | 30 | Bias | 23.922 | 23.623 | -0.2987 |
| 15 | 30 | Bias | 23.431 | 23.858 | 0.4267 |
| 16 | 30 | Unbiased | 23.167 | 23.039 | -0.1277 |
| 17 | 30 | Unbiased | 23.998 | 22.978 | -1.0199 |
| 18 | 30 | Unbiased | 23.747 | 23.669 | -0.0786 |
| 19 | 30 | Unbiased | 23.445 | 23.692 | 0.247 |
| 20 | 30 | Unbiased | 23.119 | 23.384 | 0.2651 |
| 21 | 50 | Bias | 23.196 | 23.009 | -0.1878 |
| 22 | 50 | Bias | 22.68 | 23.003 | 0.3233 |
| 23 | 50 | Bias | 23.247 | 23 | -0.2469 |
| 24 | 50 | Bias | 23.946 | 23.105 | -0.8417 |
| 25 | 50 | Bias | 23.36 | 23.489 | 0.1291 |
| 26 | 50 | Unbiased | 23.344 | 23.158 | -0.1856 |
| 27 | 50 | Unbiased | 23.279 | 23.378 | 0.0993 |
| 28 | 50 | Unbiased | 23.937 | 23.627 | -0.3106 |
| 29 | 50 | Unbiased | 23.317 | 23.751 | 0.4337 |
| 30 | 50 | Unbiased | 22.985 | 23.42 | 0.435 |
| 31 | 0 | Correlation | 22.673 | 22.864 | 0.1906 |
| 32 | 0 | Correlation | 22.875 | 22.935 | 0.0598 |
| 33 | 0 | Correlation | 23.121 | 23.155 | 0.0341 |
| 34 | 0 | Correlation | 23.174 | 23.205 | 0.0309 |

## Test Statistics (mSec)
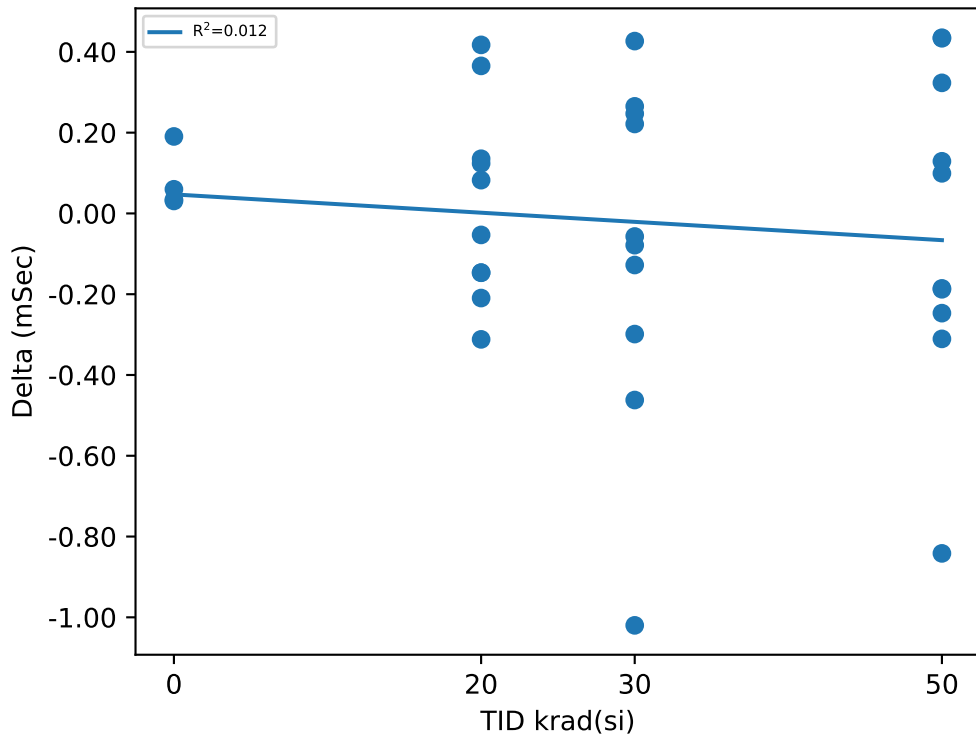
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.673 | 22.961 | 23.174 | 0.2318 | 22.864 | 23.04 | 23.205 | 0.16589 | 0.0309 | 0.07885 | 0.1906 | 0.075615 |
| 20 | 22.894 | 23.446 | 24.041 | 0.4076 | 22.907 | 23.471 | 23.894 | 0.28315 | -0.3118 | 0.02564 | 0.4173 | 0.24232 |
| 30 | 23.057 | 23.498 | 23.998 | 0.34123 | 22.978 | 23.41 | 23.858 | 0.29141 | -1.0199 | -0.08837 | 0.4267 | 0.42856 |
| 50 | 22.68 | 23.329 | 23.946 | 0.38284 | 23 | 23.294 | 23.751 | 0.27628 | -0.8417 | -0.03522 | 0.435 | 0.39883 |
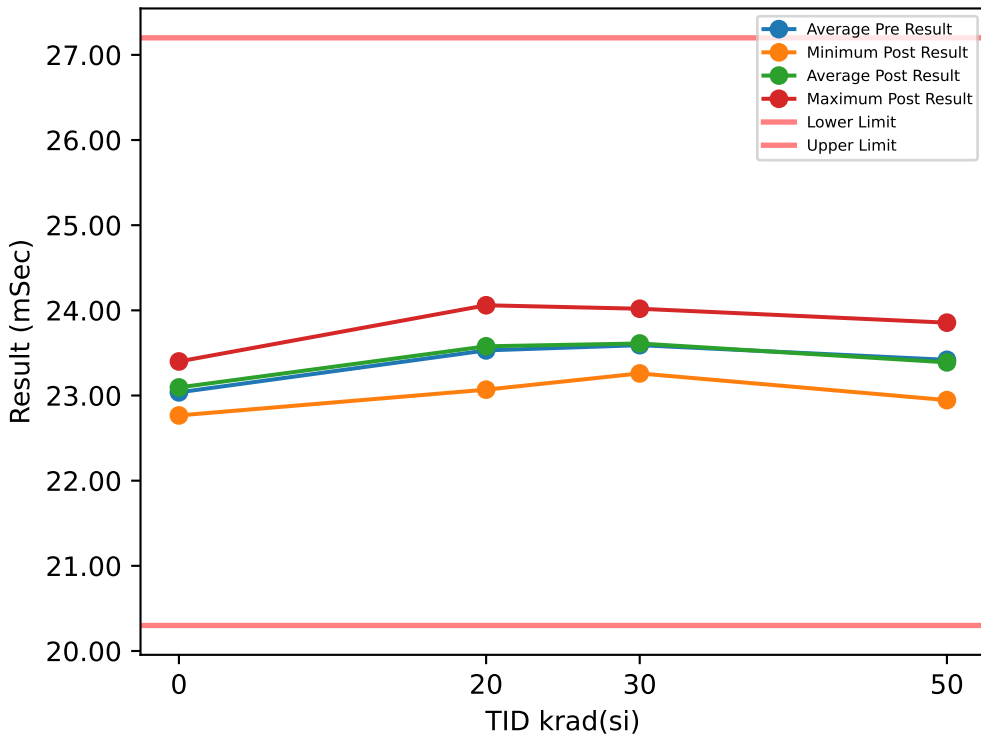
# Device Test: 18.22  REG_TIME_1MOHM(_DELAY|TIMING/SENSE2/1.6/14/0/1.18M/0/@REG_TIME_1MOHM )

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.848 | 23.854 | 0.0058 |
| 2 | 20 | Bias | 23.947 | 24.043 | 0.0955 |
| 3 | 20 | Bias | 23.935 | 24.06 | 0.1251 |
| 4 | 20 | Bias | 23.257 | 23.28 | 0.0229 |
| 5 | 20 | Bias | 23.506 | 23.628 | 0.1228 |
| 6 | 20 | Unbiased | 23.1 | 23.069 | -0.0316 |
| 7 | 20 | Unbiased | 23.145 | 23.232 | 0.0873 |
| 8 | 20 | Unbiased | 23.651 | 23.577 | -0.0745 |
| 9 | 20 | Unbiased | 23.374 | 23.396 | 0.0221 |
| 10 | 20 | Unbiased | 23.536 | 23.643 | 0.1073 |
| 11 | 30 | Bias | 23.35 | 23.503 | 0.1537 |
| 12 | 30 | Bias | 23.302 | 23.338 | 0.036 |
| 13 | 30 | Bias | 23.937 | 23.359 | -0.5784 |
| 14 | 30 | Bias | 24.007 | 23.846 | -0.1607 |
| 15 | 30 | Bias | 23.448 | 23.89 | 0.4414 |
| 16 | 30 | Unbiased | 23.31 | 23.328 | 0.0183 |
| 17 | 30 | Unbiased | 24.037 | 23.259 | -0.7776 |
| 18 | 30 | Unbiased | 23.731 | 24.019 | 0.2877 |
| 19 | 30 | Unbiased | 23.393 | 23.984 | 0.5913 |
| 20 | 30 | Unbiased | 23.396 | 23.582 | 0.1869 |
| 21 | 50 | Bias | 23.472 | 23.279 | -0.1931 |
| 22 | 50 | Bias | 22.844 | 23.236 | 0.3919 |
| 23 | 50 | Bias | 23.407 | 22.946 | -0.4608 |
| 24 | 50 | Bias | 23.832 | 23.438 | -0.3938 |
| 25 | 50 | Bias | 23.414 | 23.332 | -0.0824 |
| 26 | 50 | Unbiased | 23.27 | 23.341 | 0.0708 |
| 27 | 50 | Unbiased | 23.505 | 23.328 | -0.1768 |
| 28 | 50 | Unbiased | 23.936 | 23.855 | -0.0803 |
| 29 | 50 | Unbiased | 23.229 | 23.688 | 0.4588 |
| 30 | 50 | Unbiased | 23.281 | 23.45 | 0.1685 |
| 31 | 0 | Correlation | 22.801 | 22.766 | -0.0346 |
| 32 | 0 | Correlation | 23.171 | 23.133 | -0.0377 |
| 33 | 0 | Correlation | 23.069 | 23.08 | 0.011 |
| 34 | 0 | Correlation | 23.108 | 23.4 | 0.2919 |

### Test Statistics (mSec)
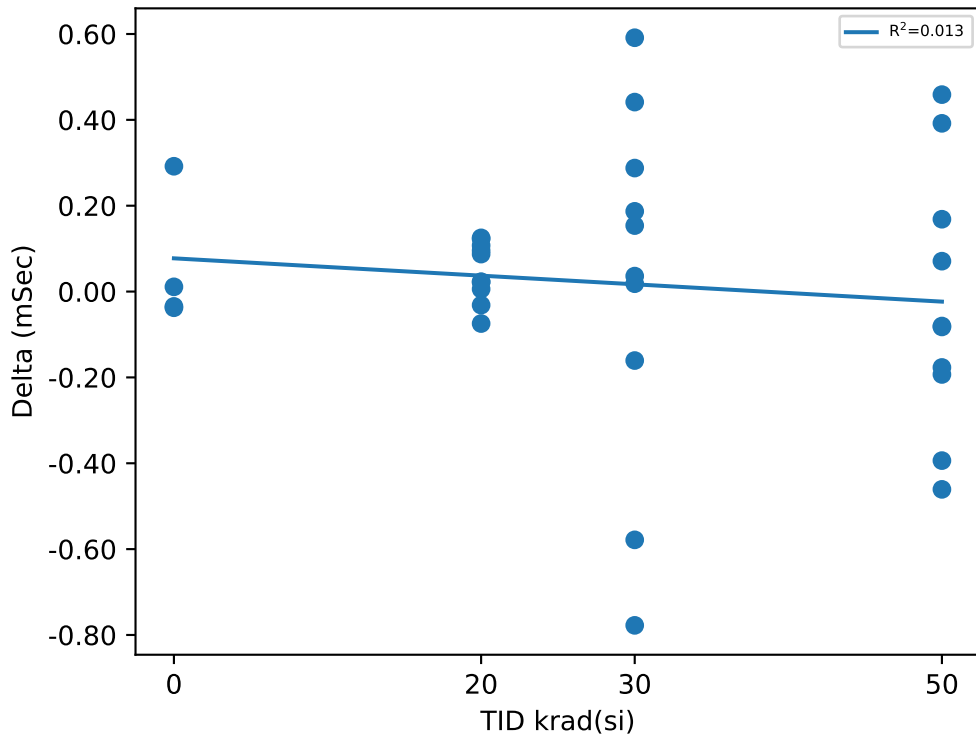
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.801 | 23.037 | 23.171 | 0.16298 | 22.766 | 23.095 | 23.4 | 0.25991 | -0.0377 | 0.05765 | 0.2919 | 0.15775 |
| 20 | 23.1 | 23.53 | 23.947 | 0.3137 | 23.069 | 23.578 | 24.06 | 0.33852 | -0.0745 | 0.04827 | 0.1251 | 0.069346 |
| 30 | 23.302 | 23.591 | 24.037 | 0.30366 | 23.259 | 23.611 | 24.019 | 0.29671 | -0.7776 | 0.01986 | 0.5913 | 0.42798 |
| 50 | 22.844 | 23.419 | 23.936 | 0.30834 | 22.946 | 23.389 | 23.855 | 0.24817 | -0.4608 | -0.02972 | 0.4588 | 0.30511 |
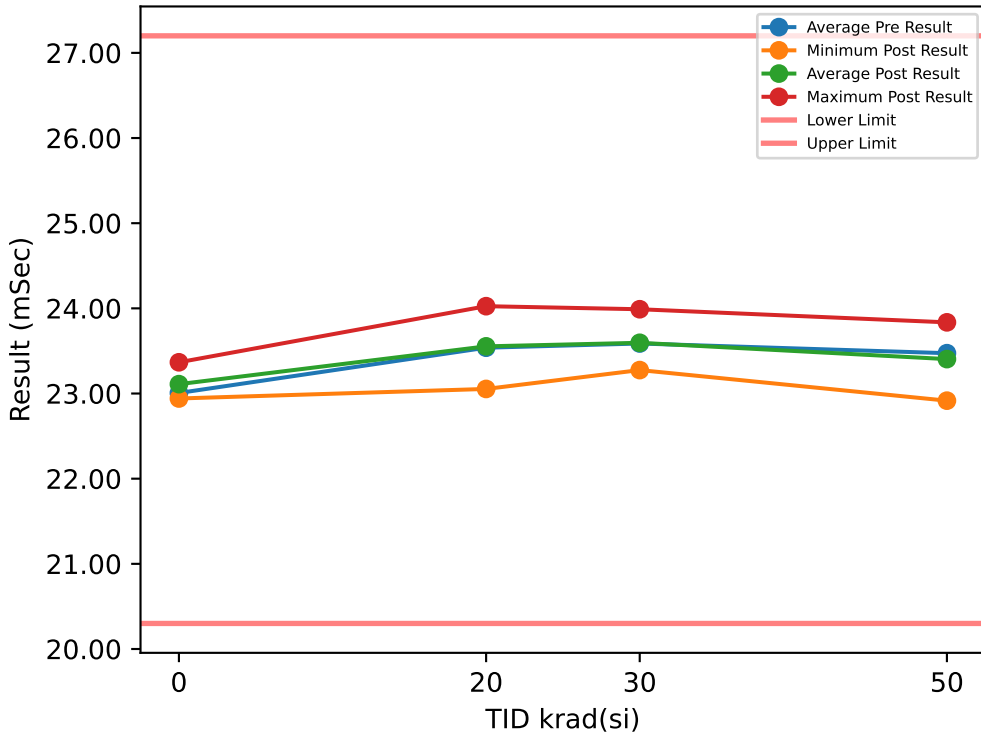
# Device Test: 18.23  REG_TIME_1MOHM(_DELAY|TIMING/SENSE3/1.6/14/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.82 | 23.83 | 0.0091 |
| 2 | 20 | Bias | 24.071 | 24.026 | -0.0458 |
| 3 | 20 | Bias | 23.922 | 24.001 | 0.0795 |
| 4 | 20 | Bias | 23.395 | 23.246 | -0.1496 |
| 5 | 20 | Bias | 23.512 | 23.599 | 0.0868 |
| 6 | 20 | Unbiased | 23.094 | 23.054 | -0.0405 |
| 7 | 20 | Unbiased | 23.133 | 23.198 | 0.0655 |
| 8 | 20 | Unbiased | 23.626 | 23.575 | -0.0516 |
| 9 | 20 | Unbiased | 23.33 | 23.414 | 0.0847 |
| 10 | 20 | Unbiased | 23.475 | 23.596 | 0.1215 |
| 11 | 30 | Bias | 23.297 | 23.444 | 0.1464 |
| 12 | 30 | Bias | 23.242 | 23.322 | 0.0799 |
| 13 | 30 | Bias | 23.912 | 23.325 | -0.5869 |
| 14 | 30 | Bias | 23.966 | 23.838 | -0.1279 |
| 15 | 30 | Bias | 23.448 | 23.894 | 0.4457 |
| 16 | 30 | Unbiased | 23.435 | 23.324 | -0.1104 |
| 17 | 30 | Unbiased | 23.944 | 23.275 | -0.6686 |
| 18 | 30 | Unbiased | 23.707 | 23.99 | 0.2823 |
| 19 | 30 | Unbiased | 23.522 | 23.983 | 0.4609 |
| 20 | 30 | Unbiased | 23.399 | 23.561 | 0.1617 |
| 21 | 50 | Bias | 23.445 | 23.255 | -0.1902 |
| 22 | 50 | Bias | 22.998 | 23.25 | 0.2519 |
| 23 | 50 | Bias | 23.573 | 22.916 | -0.6574 |
| 24 | 50 | Bias | 23.993 | 23.412 | -0.5805 |
| 25 | 50 | Bias | 23.39 | 23.472 | 0.0826 |
| 26 | 50 | Unbiased | 23.387 | 23.495 | 0.1081 |
| 27 | 50 | Unbiased | 23.451 | 23.339 | -0.1128 |
| 28 | 50 | Unbiased | 23.907 | 23.836 | -0.0713 |
| 29 | 50 | Unbiased | 23.37 | 23.676 | 0.3055 |
| 30 | 50 | Unbiased | 23.221 | 23.391 | 0.17 |
| 31 | 0 | Correlation | 22.786 | 22.942 | 0.1554 |
| 32 | 0 | Correlation | 23.125 | 23.094 | -0.0311 |
| 33 | 0 | Correlation | 23.032 | 23.038 | 0.0054 |
| 34 | 0 | Correlation | 23.082 | 23.367 | 0.2846 |

## Test Statistics (mSec)
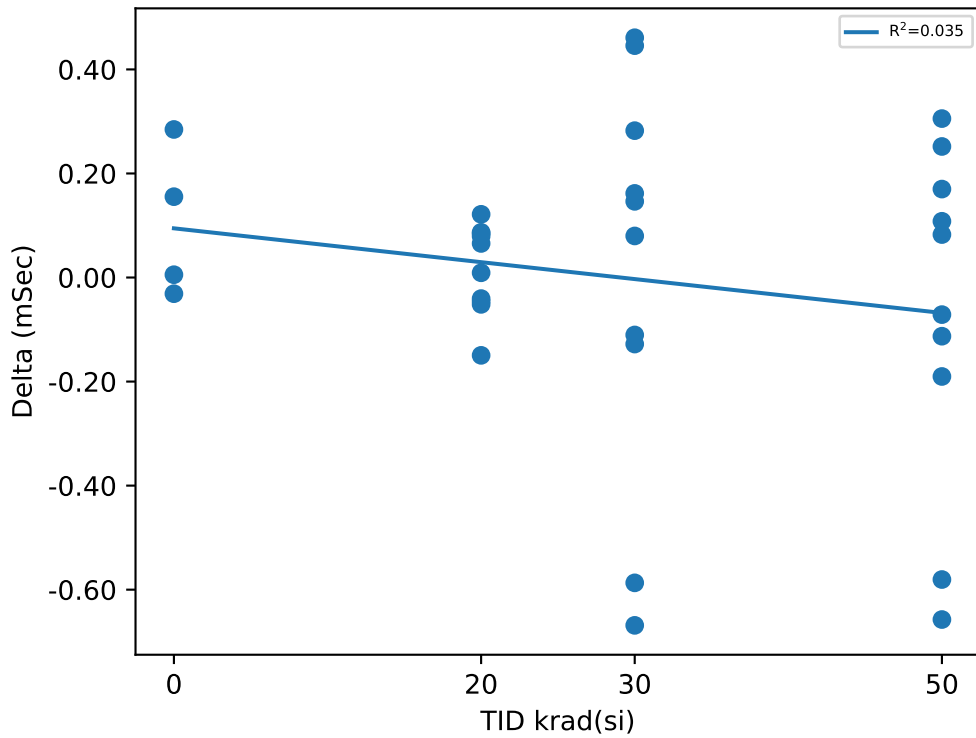
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.786 | 23.006 | 23.125 | 0.1516 | 22.942 | 23.11 | 23.367 | 0.18236 | -0.0311 | 0.10358 | 0.2846 | 0.14518 |
| 20 | 23.094 | 23.538 | 24.071 | 0.32469 | 23.054 | 23.554 | 24.026 | 0.33232 | -0.1496 | 0.01596 | 0.1215 | 0.085892 |
| 30 | 23.242 | 23.587 | 23.966 | 0.27406 | 23.275 | 23.596 | 23.99 | 0.29846 | -0.6686 | 0.00831 | 0.4609 | 0.38931 |
| 50 | 22.998 | 23.474 | 23.993 | 0.29517 | 22.916 | 23.404 | 23.836 | 0.24987 | -0.6574 | -0.06941 | 0.3055 | 0.32984 |
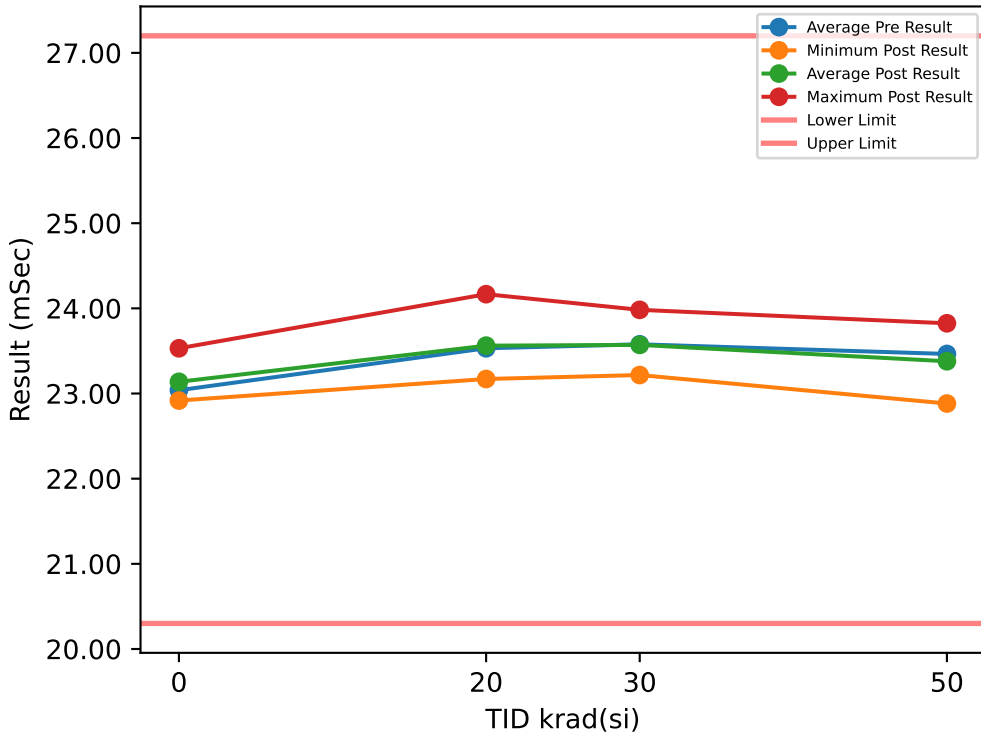
# Device Test: 18.24  REG_TIME_1MOHM(_DELAY|TIMING/SENSE4/1.6/14/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.757 | 23.782 | 0.025 |
| 2 | 20 | Bias | 24.048 | 24.166 | 0.1184 |
| 3 | 20 | Bias | 23.893 | 23.973 | 0.0794 |
| 4 | 20 | Bias | 23.401 | 23.251 | -0.1507 |
| 5 | 20 | Bias | 23.501 | 23.59 | 0.0889 |
| 6 | 20 | Unbiased | 23.048 | 23.184 | 0.1353 |
| 7 | 20 | Unbiased | 23.127 | 23.171 | 0.0433 |
| 8 | 20 | Unbiased | 23.597 | 23.556 | -0.0401 |
| 9 | 20 | Unbiased | 23.323 | 23.382 | 0.0581 |
| 10 | 20 | Unbiased | 23.615 | 23.566 | -0.0493 |
| 11 | 30 | Bias | 23.27 | 23.606 | 0.3355 |
| 12 | 30 | Bias | 23.255 | 23.277 | 0.0224 |
| 13 | 30 | Bias | 24.056 | 23.255 | -0.8003 |
| 14 | 30 | Bias | 23.894 | 23.807 | -0.087 |
| 15 | 30 | Bias | 23.392 | 23.853 | 0.4616 |
| 16 | 30 | Unbiased | 23.385 | 23.249 | -0.1363 |
| 17 | 30 | Unbiased | 23.968 | 23.217 | -0.7508 |
| 18 | 30 | Unbiased | 23.697 | 23.983 | 0.2856 |
| 19 | 30 | Unbiased | 23.491 | 23.93 | 0.4396 |
| 20 | 30 | Unbiased | 23.372 | 23.532 | 0.1603 |
| 21 | 50 | Bias | 23.447 | 23.192 | -0.2549 |
| 22 | 50 | Bias | 22.824 | 23.212 | 0.3883 |
| 23 | 50 | Bias | 23.563 | 22.883 | -0.6801 |
| 24 | 50 | Bias | 23.966 | 23.418 | -0.5479 |
| 25 | 50 | Bias | 23.39 | 23.471 | 0.0816 |
| 26 | 50 | Unbiased | 23.402 | 23.481 | 0.079 |
| 27 | 50 | Unbiased | 23.599 | 23.302 | -0.2978 |
| 28 | 50 | Unbiased | 23.869 | 23.825 | -0.0443 |
| 29 | 50 | Unbiased | 23.358 | 23.651 | 0.2927 |
| 30 | 50 | Unbiased | 23.229 | 23.352 | 0.1232 |
| 31 | 0 | Correlation | 22.94 | 22.918 | -0.0223 |
| 32 | 0 | Correlation | 23.106 | 23.102 | -0.0037 |
| 33 | 0 | Correlation | 23.037 | 22.999 | -0.0384 |
| 34 | 0 | Correlation | 23.072 | 23.531 | 0.4593 |

## Test Statistics (mSec)
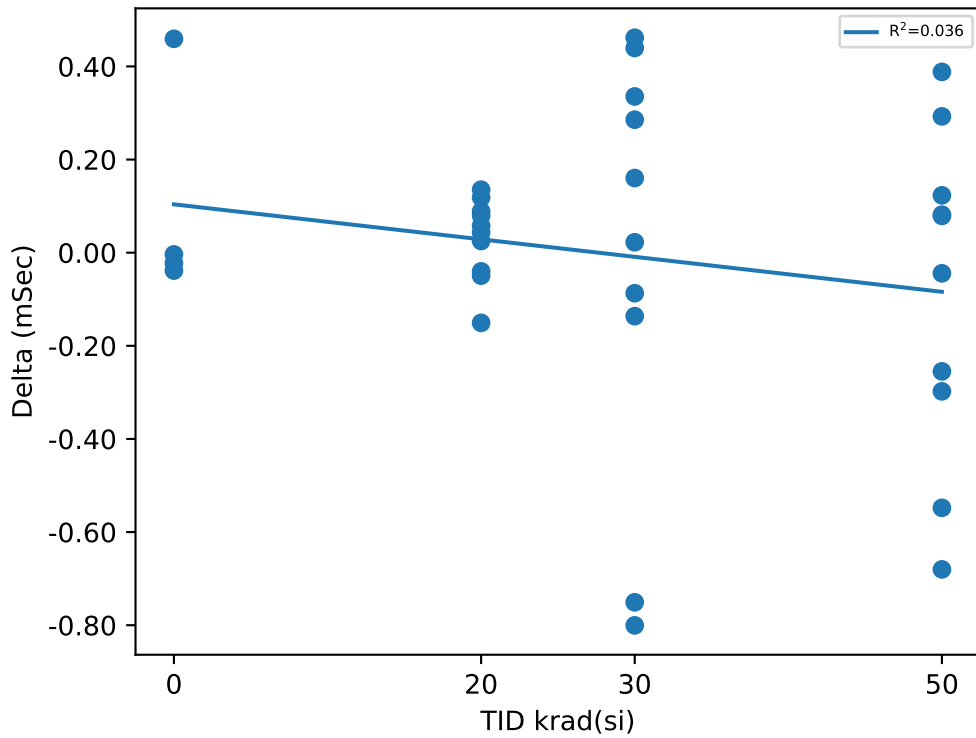
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.94 | 23.039 | 23.106 | 0.071588 | 22.918 | 23.137 | 23.531 | 0.27307 | -0.0384 | 0.098725 | 0.4593 | 0.2408 |
| 20 | 23.048 | 23.531 | 24.048 | 0.31931 | 23.171 | 23.562 | 24.166 | 0.33482 | -0.1507 | 0.03083 | 0.1353 | 0.087972 |
| 30 | 23.255 | 23.578 | 24.056 | 0.30103 | 23.217 | 23.571 | 23.983 | 0.30761 | -0.8003 | -0.00694 | 0.4616 | 0.45418 |
| 50 | 22.824 | 23.465 | 23.966 | 0.32144 | 22.883 | 23.379 | 23.825 | 0.26002 | -0.6801 | -0.08602 | 0.3883 | 0.35101 |
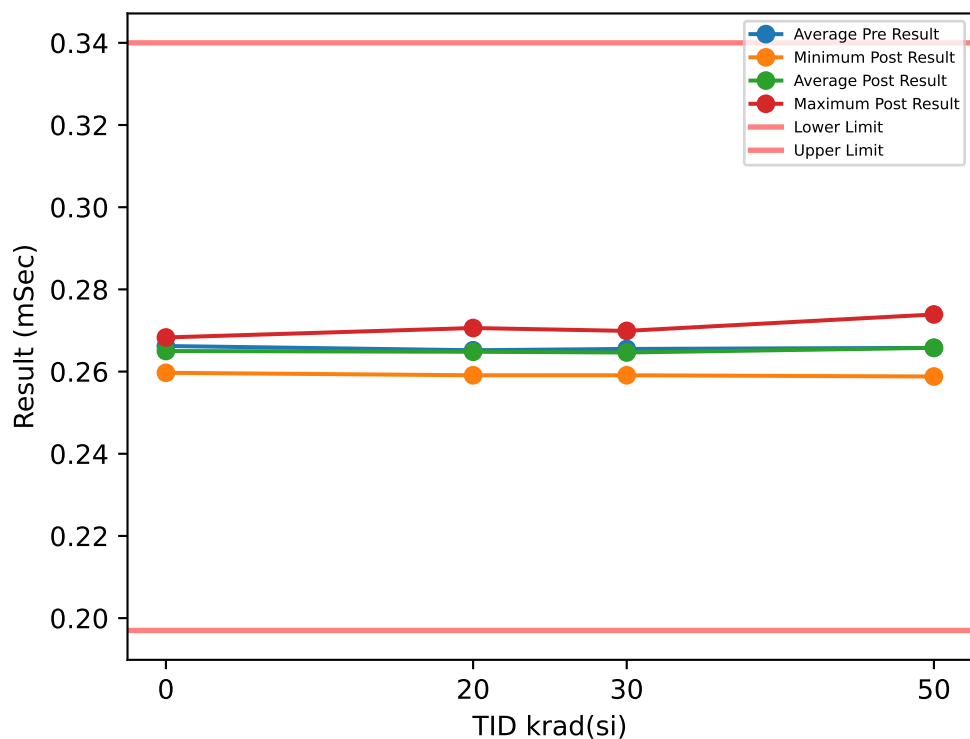
# Device Test: 18.25 REG_TIME_10KOHM(_DELAY|TIMING/SENSE1/7/3/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 0.2687 | 0.2692 | 0.0005 |
| 2 | 20 | Bias | 0.2704 | 0.2706 | 0.0002 |
| 3 | 20 | Bias | 0.268 | 0.269 | 0.001 |
| 4 | 20 | Bias | 0.2676 | 0.2661 | -0.0015 |
| 5 | 20 | Bias | 0.2617 | 0.261 | -0.0007 |
| 6 | 20 | Unbiased | 0.2672 | 0.2651 | -0.0021 |
| 7 | 20 | Unbiased | 0.2665 | 0.2656 | -0.0009 |
| 8 | 20 | Unbiased | 0.2588 | 0.2591 | 0.0003 |
| 9 | 20 | Unbiased | 0.2615 | 0.2618 | 0.0003 |
| 10 | 20 | Unbiased | 0.2615 | 0.2607 | -0.0008 |
| 11 | 30 | Bias | 0.2643 | 0.2591 | -0.0052 |
| 12 | 30 | Bias | 0.268 | 0.2645 | -0.0035 |
| 13 | 30 | Bias | 0.2617 | 0.2676 | 0.0059 |
| 14 | 30 | Bias | 0.2685 | 0.2611 | -0.0074 |
| 15 | 30 | Bias | 0.2686 | 0.2676 | -0.001 |
| 16 | 30 | Unbiased | 0.26 | 0.2662 | 0.0062 |
| 17 | 30 | Unbiased | 0.266 | 0.2603 | -0.0057 |
| 18 | 30 | Unbiased | 0.2696 | 0.2667 | -0.0029 |
| 19 | 30 | Unbiased | 0.263 | 0.2699 | 0.0069 |
| 20 | 30 | Unbiased | 0.2654 | 0.2634 | -0.002 |
| 21 | 50 | Bias | 0.2669 | 0.2645 | -0.0024 |
| 22 | 50 | Bias | 0.2642 | 0.2667 | 0.0025 |
| 23 | 50 | Bias | 0.2604 | 0.2658 | 0.0054 |
| 24 | 50 | Bias | 0.2666 | 0.262 | -0.0046 |
| 25 | 50 | Bias | 0.2745 | 0.2739 | -0.0006 |
| 26 | 50 | Unbiased | 0.263 | 0.2616 | -0.0014 |
| 27 | 50 | Unbiased | 0.257 | 0.2588 | 0.0018 |
| 28 | 50 | Unbiased | 0.2695 | 0.2703 | 0.0008 |
| 29 | 50 | Unbiased | 0.2684 | 0.2675 | -0.0009 |
| 30 | 50 | Unbiased | 0.2672 | 0.2667 | -0.0005 |
| 31 | 0 | Correlation | 0.2673 | 0.2683 | 0.001 |
| 32 | 0 | Correlation | 0.2671 | 0.2671 | 0 |
| 33 | 0 | Correlation | 0.266 | 0.2649 | -0.0011 |
| 34 | 0 | Correlation | 0.2645 | 0.2597 | -0.0048 |

## Test Statistics (mSec)
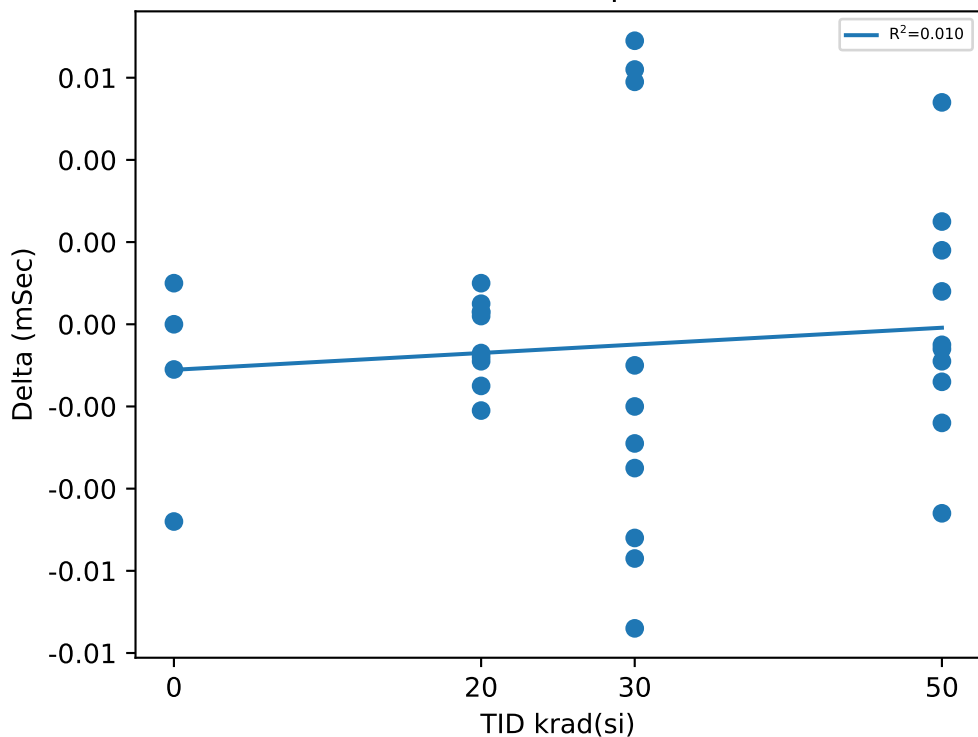
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2645 | 0.26622 | 0.2673 | 0.0012842 | 0.2597 | 0.265 | 0.2683 | 0.0038035 | -0.0048 | -0.001225 | 0.001 | 0.0025329 |
| 20 | 0.2588 | 0.26519 | 0.2704 | 0.0039323 | 0.2591 | 0.26482 | 0.2706 | 0.0040249 | -0.0021 | -0.00037 | 0.001 | 0.00098325 |
| 30 | 0.26 | 0.26551 | 0.2696 | 0.0032371 | 0.2591 | 0.26464 | 0.2699 | 0.0035821 | -0.0074 | -0.00087 | 0.0069 | 0.0053045 |
| 50 | 0.257 | 0.26577 | 0.2745 | 0.0049096 | 0.2588 | 0.26578 | 0.2739 | 0.004386 | -0.0046 | 1e-05 | 0.0054 | 0.0027807 |
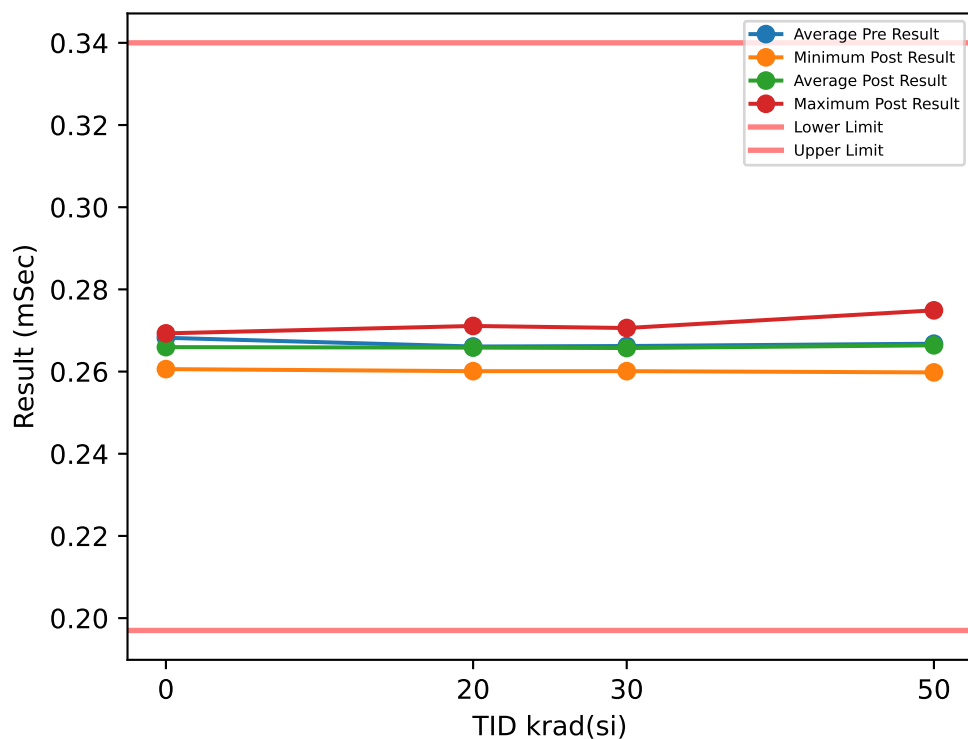
# Device Test: 18.26  REG_TIME_10KOHM(_DELAY|TIMING/SENSE2/7/3/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.014$

## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2687 | 0.2692 | 0.0005 |
| 2 | 20 | Bias | 0.2704 | 0.2705 | 0.0001 |
| 3 | 20 | Bias | 0.27 | 0.2711 | 0.0011 |
| 4 | 20 | Bias | 0.2696 | 0.2671 | -0.0025 |
| 5 | 20 | Bias | 0.2617 | 0.261 | -0.0007 |
| 6 | 20 | Unbiased | 0.2672 | 0.2671 | -0.0001 |
| 7 | 20 | Unbiased | 0.2676 | 0.2677 | 0.0001 |
| 8 | 20 | Unbiased | 0.2608 | 0.2601 | -0.0007 |
| 9 | 20 | Unbiased | 0.2625 | 0.2618 | -0.0007 |
| 10 | 20 | Unbiased | 0.2625 | 0.2627 | 0.0002 |
| 11 | 30 | Bias | 0.2654 | 0.2601 | -0.0053 |
| 12 | 30 | Bias | 0.269 | 0.2645 | -0.0045 |
| 13 | 30 | Bias | 0.2627 | 0.2685 | 0.0058 |
| 14 | 30 | Bias | 0.2705 | 0.2621 | -0.0084 |
| 15 | 30 | Bias | 0.2676 | 0.2706 | 0.003 |
| 16 | 30 | Unbiased | 0.262 | 0.2672 | 0.0052 |
| 17 | 30 | Unbiased | 0.267 | 0.2613 | -0.0057 |
| 18 | 30 | Unbiased | 0.2696 | 0.2687 | -0.0009 |
| 19 | 30 | Unbiased | 0.263 | 0.2699 | 0.0069 |
| 20 | 30 | Unbiased | 0.2654 | 0.2644 | -0.001 |
| 21 | 50 | Bias | 0.2679 | 0.2656 | -0.0023 |
| 22 | 50 | Bias | 0.2652 | 0.2677 | 0.0025 |
| 23 | 50 | Bias | 0.2624 | 0.2658 | 0.0034 |
| 24 | 50 | Bias | 0.2666 | 0.262 | -0.0046 |
| 25 | 50 | Bias | 0.2755 | 0.2749 | -0.0006 |
| 26 | 50 | Unbiased | 0.263 | 0.2626 | -0.0004 |
| 27 | 50 | Unbiased | 0.2591 | 0.2598 | 0.0007 |
| 28 | 50 | Unbiased | 0.2705 | 0.2713 | 0.0008 |
| 29 | 50 | Unbiased | 0.2694 | 0.2675 | -0.0019 |
| 30 | 50 | Unbiased | 0.2682 | 0.2667 | -0.0015 |
| 31 | 0 | Correlation | 0.2703 | 0.2693 | -0.001 |
| 32 | 0 | Correlation | 0.2681 | 0.267 | -0.0011 |
| 33 | 0 | Correlation | 0.268 | 0.2669 | -0.0011 |
| 34 | 0 | Correlation | 0.2665 | 0.2606 | -0.0059 |

## Test Statistics (mSec)
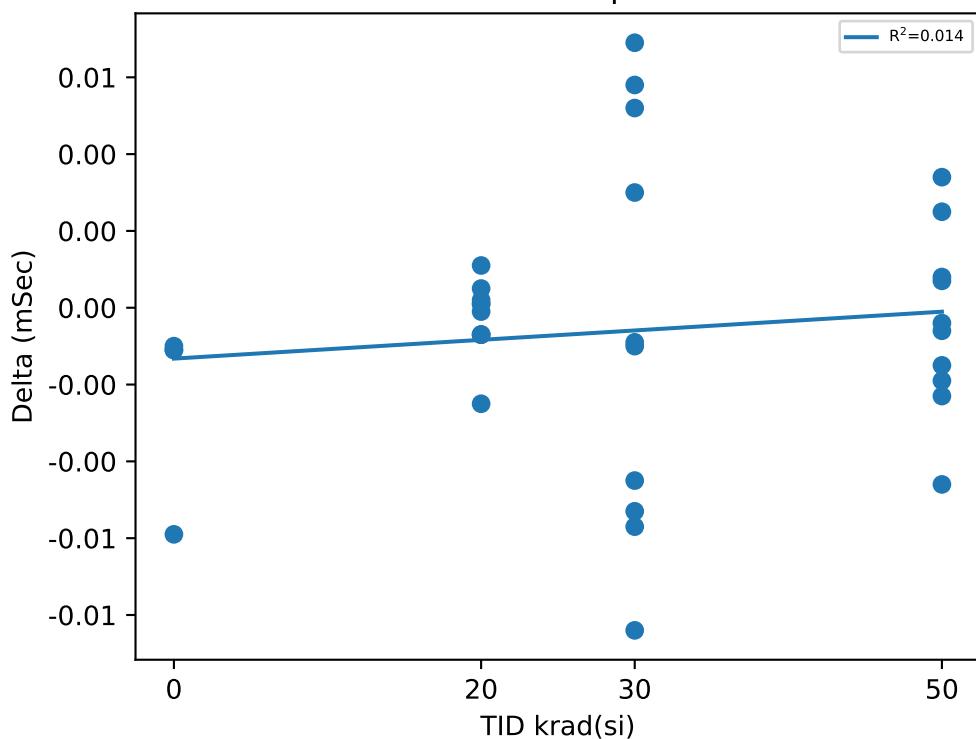
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2665 | 0.26822 | 0.2703 | 0.001565 | 0.2606 | 0.26595 | 0.2693 | 0.003735 | -0.0059 | -0.002275 | -0.001 | 0.0024171 |
| 20 | 0.2608 | 0.2661 | 0.2704 | 0.0037939 | 0.2601 | 0.26583 | 0.2711 | 0.0040806 | -0.0025 | -0.00027 | 0.0011 | 0.00097303 |
| 30 | 0.262 | 0.26622 | 0.2705 | 0.0030165 | 0.2601 | 0.26573 | 0.2706 | 0.0037645 | -0.0084 | -0.00049 | 0.0069 | 0.0054578 |
| 50 | 0.2591 | 0.26678 | 0.2755 | 0.0046547 | 0.2598 | 0.26639 | 0.2749 | 0.0044423 | -0.0046 | -0.00039 | 0.0034 | 0.0023629 |
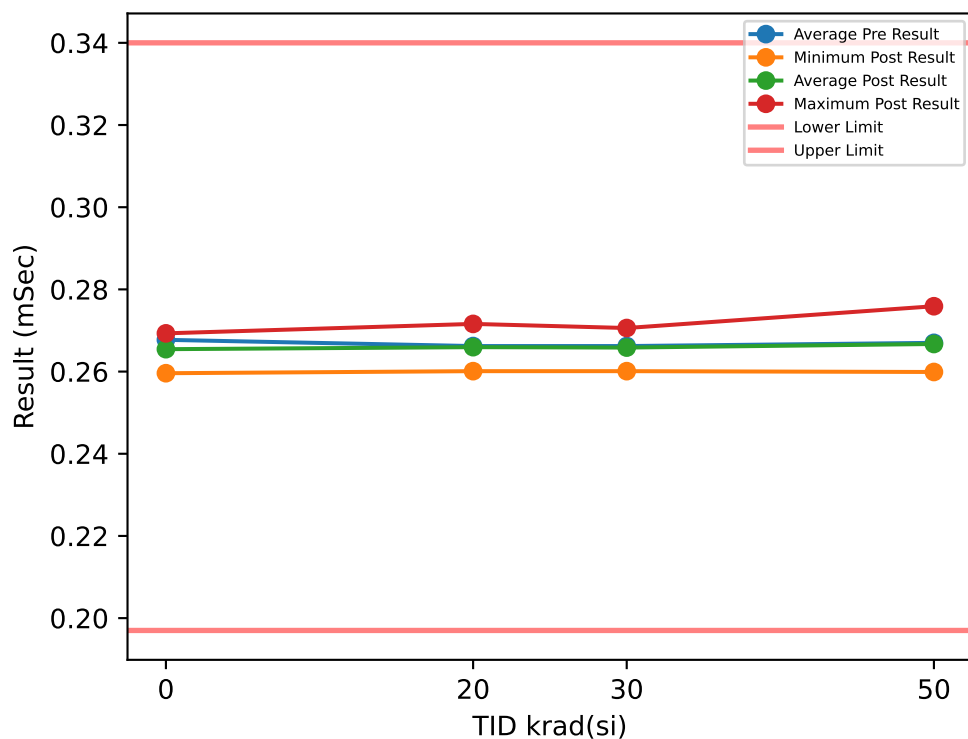
# Device Test: 18.27  REG_TIME_10KOHM(_DELAY|TIMING/SENSE3/7/3/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2697 | 0.2702 | 0.0005 |
| 2 | 20 | Bias | 0.2704 | 0.2716 | 0.0012 |
| 3 | 20 | Bias | 0.27 | 0.269 | -0.001 |
| 4 | 20 | Bias | 0.2696 | 0.2692 | -0.0004 |
| 5 | 20 | Bias | 0.2607 | 0.261 | 0.0003 |
| 6 | 20 | Unbiased | 0.2672 | 0.2661 | -0.0011 |
| 7 | 20 | Unbiased | 0.2686 | 0.2677 | -0.0009 |
| 8 | 20 | Unbiased | 0.2598 | 0.2601 | 0.0003 |
| 9 | 20 | Unbiased | 0.2636 | 0.2628 | -0.0008 |
| 10 | 20 | Unbiased | 0.2625 | 0.2617 | -0.0008 |
| 11 | 30 | Bias | 0.2643 | 0.2601 | -0.0042 |
| 12 | 30 | Bias | 0.269 | 0.2645 | -0.0045 |
| 13 | 30 | Bias | 0.2637 | 0.2695 | 0.0058 |
| 14 | 30 | Bias | 0.2695 | 0.2621 | -0.0074 |
| 15 | 30 | Bias | 0.2686 | 0.2706 | 0.002 |
| 16 | 30 | Unbiased | 0.261 | 0.2682 | 0.0072 |
| 17 | 30 | Unbiased | 0.268 | 0.2624 | -0.0056 |
| 18 | 30 | Unbiased | 0.2696 | 0.2677 | -0.0019 |
| 19 | 30 | Unbiased | 0.263 | 0.2699 | 0.0069 |
| 20 | 30 | Unbiased | 0.2654 | 0.2634 | -0.002 |
| 21 | 50 | Bias | 0.2689 | 0.2656 | -0.0033 |
| 22 | 50 | Bias | 0.2663 | 0.2687 | 0.0024 |
| 23 | 50 | Bias | 0.2624 | 0.2658 | 0.0034 |
| 24 | 50 | Bias | 0.2666 | 0.262 | -0.0046 |
| 25 | 50 | Bias | 0.2755 | 0.2759 | 0.0004 |
| 26 | 50 | Unbiased | 0.262 | 0.2626 | 0.0006 |
| 27 | 50 | Unbiased | 0.2591 | 0.2599 | 0.0008 |
| 28 | 50 | Unbiased | 0.2725 | 0.2713 | -0.0012 |
| 29 | 50 | Unbiased | 0.2684 | 0.2686 | 0.0002 |
| 30 | 50 | Unbiased | 0.2682 | 0.2667 | -0.0015 |
| 31 | 0 | Correlation | 0.2703 | 0.2693 | -0.001 |
| 32 | 0 | Correlation | 0.2681 | 0.266 | -0.0021 |
| 33 | 0 | Correlation | 0.267 | 0.2669 | -0.0001 |
| 34 | 0 | Correlation | 0.2655 | 0.2596 | -0.0059 |

## Test Statistics (mSec)
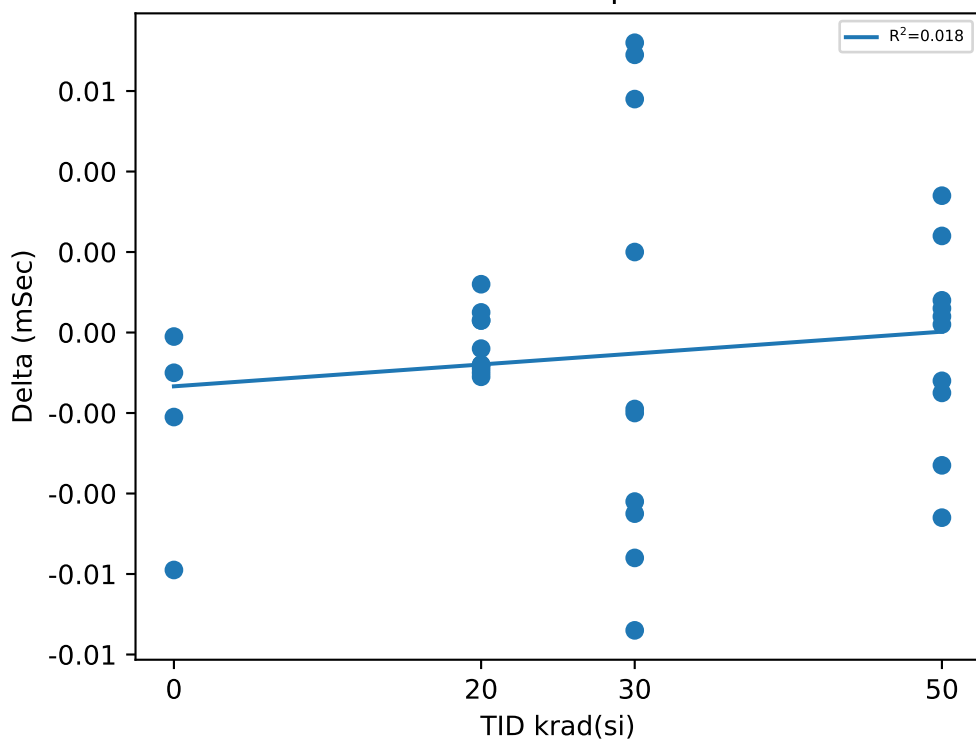
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2655 | 0.26772 | 0.2703 | 0.0020205 | 0.2596 | 0.26545 | 0.2693 | 0.0041413 | -0.0059 | -0.002275 | -0.0001 | 0.0025513 |
| 20 | 0.2598 | 0.26621 | 0.2704 | 0.0041407 | 0.2601 | 0.26594 | 0.2716 | 0.0042117 | -0.0011 | -0.00027 | 0.0012 | 0.00078888 |
| 30 | 0.261 | 0.26621 | 0.2696 | 0.0031104 | 0.2601 | 0.26584 | 0.2706 | 0.0037725 | -0.0074 | -0.00037 | 0.0072 | 0.0054502 |
| 50 | 0.2591 | 0.26699 | 0.2755 | 0.0049298 | 0.2599 | 0.26671 | 0.2759 | 0.0047207 | -0.0046 | -0.00028 | 0.0034 | 0.0024376 |
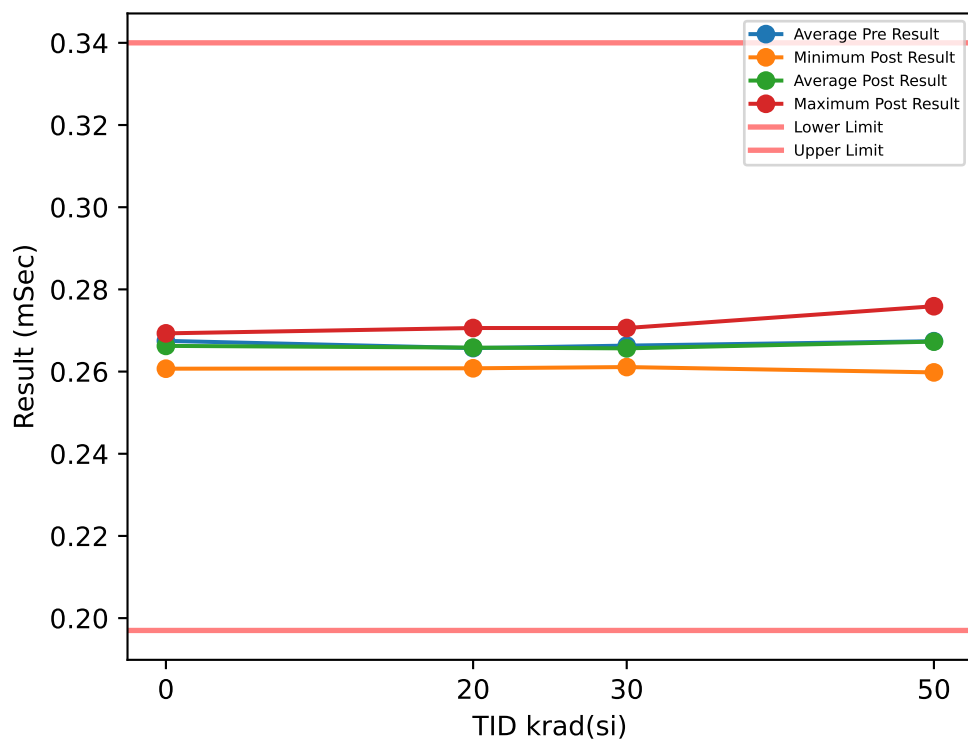
# Device Test: 18.28  REG_TIME_10KOHM(_DELAY|TIMING/SENSE4/7/3/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2698 | 0.2702 | 0.0004 |
| 2 | 20 | Bias | 0.2724 | 0.2706 | -0.0018 |
| 3 | 20 | Bias | 0.27 | 0.27 | 0 |
| 4 | 20 | Bias | 0.2676 | 0.2681 | 0.0005 |
| 5 | 20 | Bias | 0.2607 | 0.261 | 0.0003 |
| 6 | 20 | Unbiased | 0.2672 | 0.2681 | 0.0009 |
| 7 | 20 | Unbiased | 0.2666 | 0.2667 | 0.0001 |
| 8 | 20 | Unbiased | 0.2598 | 0.2611 | 0.0013 |
| 9 | 20 | Unbiased | 0.2625 | 0.2608 | -0.0017 |
| 10 | 20 | Unbiased | 0.2605 | 0.2617 | 0.0012 |
| 11 | 30 | Bias | 0.2643 | 0.2611 | -0.0032 |
| 12 | 30 | Bias | 0.269 | 0.2645 | -0.0045 |
| 13 | 30 | Bias | 0.2627 | 0.2686 | 0.0059 |
| 14 | 30 | Bias | 0.2695 | 0.2631 | -0.0064 |
| 15 | 30 | Bias | 0.2686 | 0.2706 | 0.002 |
| 16 | 30 | Unbiased | 0.262 | 0.2672 | 0.0052 |
| 17 | 30 | Unbiased | 0.267 | 0.2624 | -0.0046 |
| 18 | 30 | Unbiased | 0.2706 | 0.2667 | -0.0039 |
| 19 | 30 | Unbiased | 0.263 | 0.2689 | 0.0059 |
| 20 | 30 | Unbiased | 0.2665 | 0.2634 | -0.0031 |
| 21 | 50 | Bias | 0.2699 | 0.2656 | -0.0043 |
| 22 | 50 | Bias | 0.2663 | 0.2697 | 0.0034 |
| 23 | 50 | Bias | 0.2624 | 0.2668 | 0.0044 |
| 24 | 50 | Bias | 0.2676 | 0.263 | -0.0046 |
| 25 | 50 | Bias | 0.2765 | 0.2759 | -0.0006 |
| 26 | 50 | Unbiased | 0.263 | 0.2626 | -0.0004 |
| 27 | 50 | Unbiased | 0.2601 | 0.2598 | -0.0003 |
| 28 | 50 | Unbiased | 0.2725 | 0.2723 | -0.0002 |
| 29 | 50 | Unbiased | 0.2694 | 0.2685 | -0.0009 |
| 30 | 50 | Unbiased | 0.2662 | 0.2687 | 0.0025 |
| 31 | 0 | Correlation | 0.2693 | 0.2693 | 0 |
| 32 | 0 | Correlation | 0.2661 | 0.2681 | 0.002 |
| 33 | 0 | Correlation | 0.267 | 0.2669 | -0.0001 |
| 34 | 0 | Correlation | 0.2675 | 0.2607 | -0.0068 |

## Test Statistics (mSec)
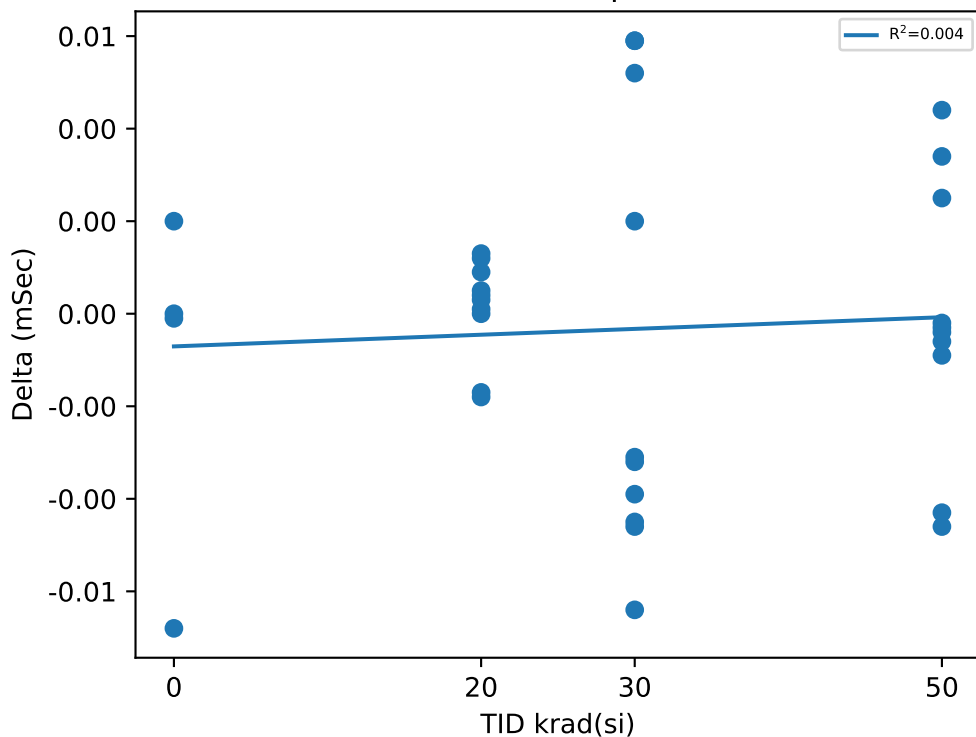
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2661 | 0.26748 | 0.2693 | 0.0013475 | 0.2607 | 0.26625 | 0.2693 | 0.0038275 | -0.0068 | -0.001225 | 0.002 | 0.0038405 |
| 20 | 0.2598 | 0.26571 | 0.2724 | 0.0045209 | 0.2608 | 0.26583 | 0.2706 | 0.0041947 | -0.0018 | 0.00012 | 0.0013 | 0.0010768 |
| 30 | 0.262 | 0.26632 | 0.2706 | 0.0031301 | 0.2611 | 0.26565 | 0.2706 | 0.0031872 | -0.0064 | -0.00067 | 0.0059 | 0.0048717 |
| 50 | 0.2601 | 0.26739 | 0.2765 | 0.0049375 | 0.2598 | 0.26729 | 0.2759 | 0.0048084 | -0.0046 | -0.0001 | 0.0044 | 0.0029473 |
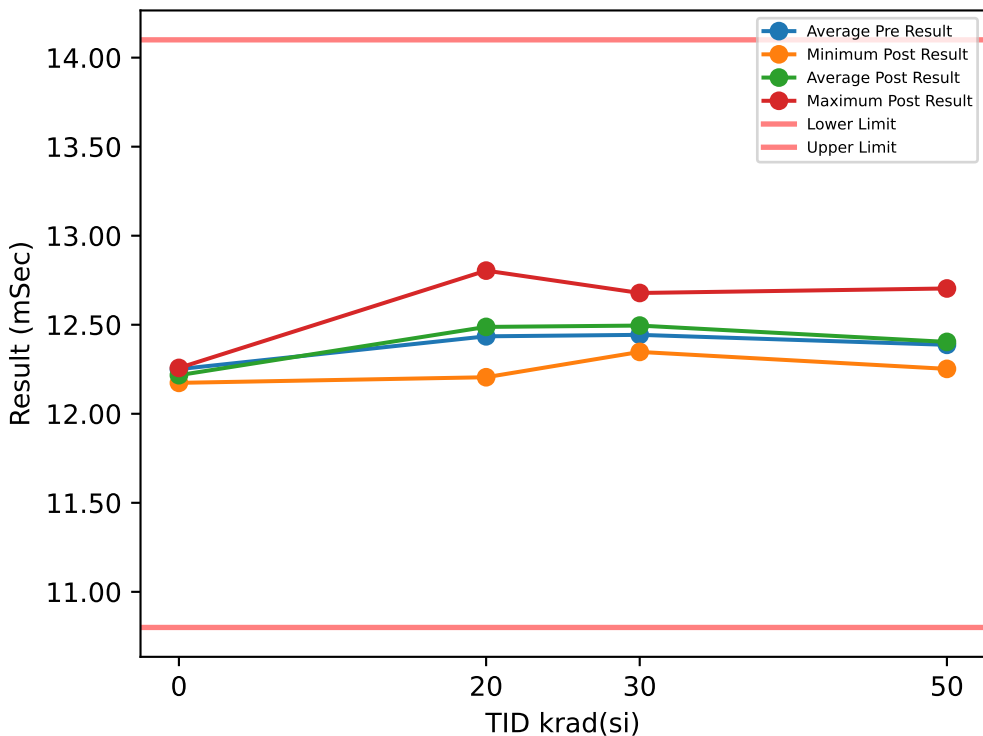
# Device Test: 18.29 REG_TIME_500KOHM(_DELAY|TIMING/SENSE1/7/3/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.645 | 12.694 | 0.0482 |
| 2 | 20 | Bias | 12.619 | 12.804 | 0.1848 |
| 3 | 20 | Bias | 12.683 | 12.76 | 0.0773 |
| 4 | 20 | Bias | 12.286 | 12.404 | 0.1186 |
| 5 | 20 | Bias | 12.457 | 12.503 | 0.0461 |
| 6 | 20 | Unbiased | 12.329 | 12.341 | 0.0115 |
| 7 | 20 | Unbiased | 12.356 | 12.205 | -0.1508 |
| 8 | 20 | Unbiased | 12.317 | 12.407 | 0.0904 |
| 9 | 20 | Unbiased | 12.357 | 12.389 | 0.032 |
| 10 | 20 | Unbiased | 12.301 | 12.371 | 0.0704 |
| 11 | 30 | Bias | 12.25 | 12.415 | 0.1648 |
| 12 | 30 | Bias | 12.263 | 12.368 | 0.105 |
| 13 | 30 | Bias | 12.532 | 12.444 | -0.088 |
| 14 | 30 | Bias | 12.595 | 12.572 | -0.0225 |
| 15 | 30 | Bias | 12.521 | 12.526 | 0.0052 |
| 16 | 30 | Unbiased | 12.26 | 12.444 | 0.1842 |
| 17 | 30 | Unbiased | 12.681 | 12.347 | -0.3338 |
| 18 | 30 | Unbiased | 12.482 | 12.678 | 0.1966 |
| 19 | 30 | Unbiased | 12.436 | 12.674 | 0.238 |
| 20 | 30 | Unbiased | 12.412 | 12.484 | 0.0714 |
| 21 | 50 | Bias | 12.328 | 12.392 | 0.0633 |
| 22 | 50 | Bias | 12.23 | 12.278 | 0.0484 |
| 23 | 50 | Bias | 12.287 | 12.267 | -0.0194 |
| 24 | 50 | Bias | 12.665 | 12.252 | -0.4134 |
| 25 | 50 | Bias | 12.38 | 12.579 | 0.1991 |
| 26 | 50 | Unbiased | 12.214 | 12.396 | 0.1815 |
| 27 | 50 | Unbiased | 12.264 | 12.299 | 0.0351 |
| 28 | 50 | Unbiased | 12.713 | 12.704 | -0.0093 |
| 29 | 50 | Unbiased | 12.377 | 12.539 | 0.1622 |
| 30 | 50 | Unbiased | 12.413 | 12.33 | -0.0835 |
| 31 | 0 | Correlation | 12.245 | 12.253 | 0.0078 |
| 32 | 0 | Correlation | 12.225 | 12.183 | -0.0424 |
| 33 | 0 | Correlation | 12.171 | 12.174 | 0.0023 |
| 34 | 0 | Correlation | 12.361 | 12.258 | -0.1034 |

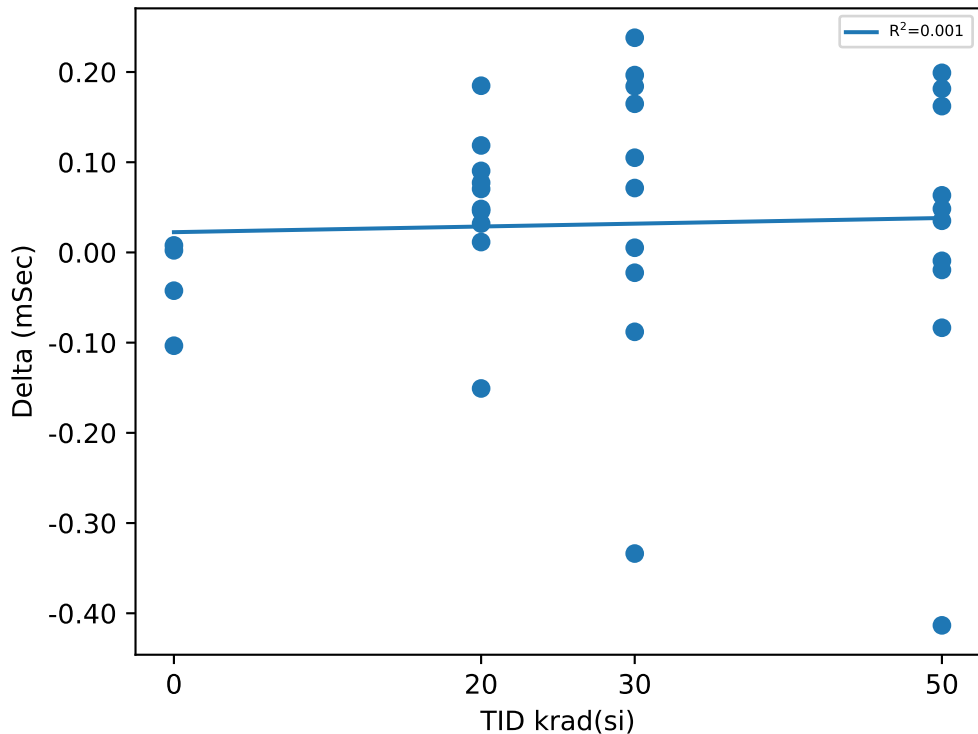## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.171 | 12.251 | 12.361 | 0.079852 | 12.174 | 12.217 | 12.258 | 0.044681 | -0.1034 | -0.033925 | 0.0078 | 0.051484 |
| 20 | 12.286 | 12.435 | 12.683 | 0.15557 | 12.205 | 12.488 | 12.804 | 0.19861 | -0.1508 | 0.05285 | 0.1848 | 0.086753 |
| 30 | 12.25 | 12.443 | 12.681 | 0.14885 | 12.347 | 12.495 | 12.678 | 0.11658 | -0.3338 | 0.05209 | 0.238 | 0.17162 |
| 50 | 12.214 | 12.387 | 12.713 | 0.17252 | 12.252 | 12.404 | 12.704 | 0.15389 | -0.4134 | 0.0164 | 0.1991 | 0.17705 |
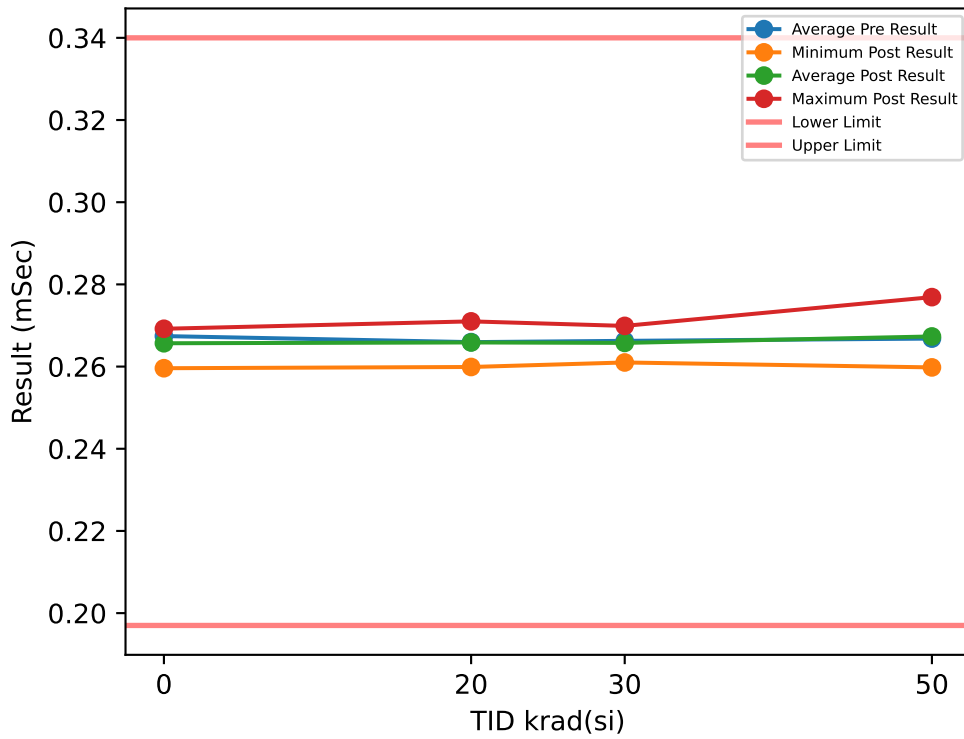
# Device Test: 18.3   REG_TIME_10KOHM(_DELAY|TIMING/SENSE3/1.6/3/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 0.2707 | 0.2691 | -0.0016 |
| 2 | 20 | Bias | 0.2703 | 0.2705 | 0.0002 |
| 3 | 20 | Bias | 0.2689 | 0.271 | 0.0021 |
| 4 | 20 | Bias | 0.2675 | 0.2681 | 0.0006 |
| 5 | 20 | Bias | 0.2617 | 0.2599 | -0.0018 |
| 6 | 20 | Unbiased | 0.2681 | 0.268 | -0.0001 |
| 7 | 20 | Unbiased | 0.2675 | 0.2676 | 0.0001 |
| 8 | 20 | Unbiased | 0.2608 | 0.2611 | 0.0003 |
| 9 | 20 | Unbiased | 0.2615 | 0.2627 | 0.0012 |
| 10 | 20 | Unbiased | 0.2625 | 0.2607 | -0.0018 |
| 11 | 30 | Bias | 0.2643 | 0.261 | -0.0033 |
| 12 | 30 | Bias | 0.2689 | 0.2654 | -0.0035 |
| 13 | 30 | Bias | 0.2636 | 0.2685 | 0.0049 |
| 14 | 30 | Bias | 0.2705 | 0.262 | -0.0085 |
| 15 | 30 | Bias | 0.2676 | 0.2695 | 0.0019 |
| 16 | 30 | Unbiased | 0.261 | 0.2671 | 0.0061 |
| 17 | 30 | Unbiased | 0.2679 | 0.2623 | -0.0056 |
| 18 | 30 | Unbiased | 0.2695 | 0.2676 | -0.0019 |
| 19 | 30 | Unbiased | 0.2629 | 0.2699 | 0.007 |
| 20 | 30 | Unbiased | 0.2664 | 0.2643 | -0.0021 |
| 21 | 50 | Bias | 0.2698 | 0.2665 | -0.0033 |
| 22 | 50 | Bias | 0.2652 | 0.2697 | 0.0045 |
| 23 | 50 | Bias | 0.2613 | 0.2667 | 0.0054 |
| 24 | 50 | Bias | 0.2676 | 0.2629 | -0.0047 |
| 25 | 50 | Bias | 0.2744 | 0.2769 | 0.0025 |
| 26 | 50 | Unbiased | 0.2619 | 0.2615 | -0.0004 |
| 27 | 50 | Unbiased | 0.259 | 0.2598 | 0.0008 |
| 28 | 50 | Unbiased | 0.2724 | 0.2732 | 0.0008 |
| 29 | 50 | Unbiased | 0.2694 | 0.2685 | -0.0009 |
| 30 | 50 | Unbiased | 0.2671 | 0.2676 | 0.0005 |
| 31 | 0 | Correlation | 0.2703 | 0.2692 | -0.0011 |
| 32 | 0 | Correlation | 0.2681 | 0.267 | -0.0011 |
| 33 | 0 | Correlation | 0.2659 | 0.2669 | 0.001 |
| 34 | 0 | Correlation | 0.2654 | 0.2596 | -0.0058 |
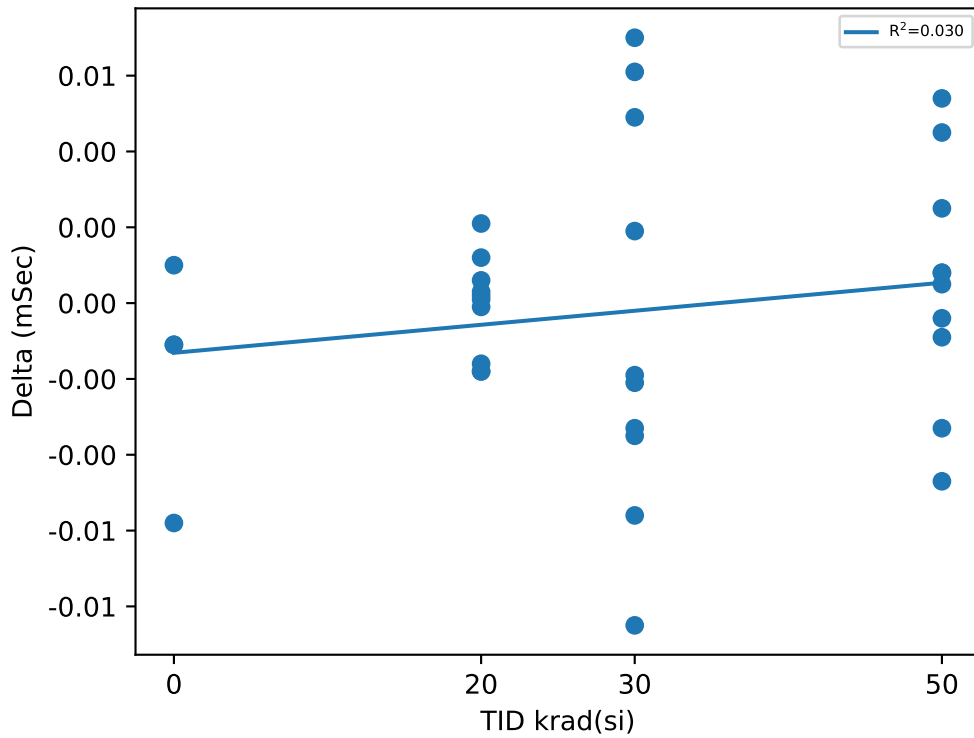
## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2654 | 0.26743 | 0.2703 | 0.002247 | 0.2596 | 0.26567 | 0.2692 | 0.0041868 | -0.0058 | -0.00175 | 0.001 | 0.0028758 |
| 20 | 0.2608 | 0.26595 | 0.2707 | 0.0038859 | 0.2599 | 0.26587 | 0.271 | 0.0042929 | -0.0018 | -8e-05 | 0.0021 | 0.0013054 |
| 30 | 0.261 | 0.26626 | 0.2705 | 0.0031592 | 0.261 | 0.26576 | 0.2699 | 0.0032463 | -0.0085 | -0.0005 | 0.007 | 0.0052292 |
| 50 | 0.259 | 0.26681 | 0.2744 | 0.0049807 | 0.2598 | 0.26733 | 0.2769 | 0.0052122 | -0.0047 | 0.00052 | 0.0054 | 0.0031347 |
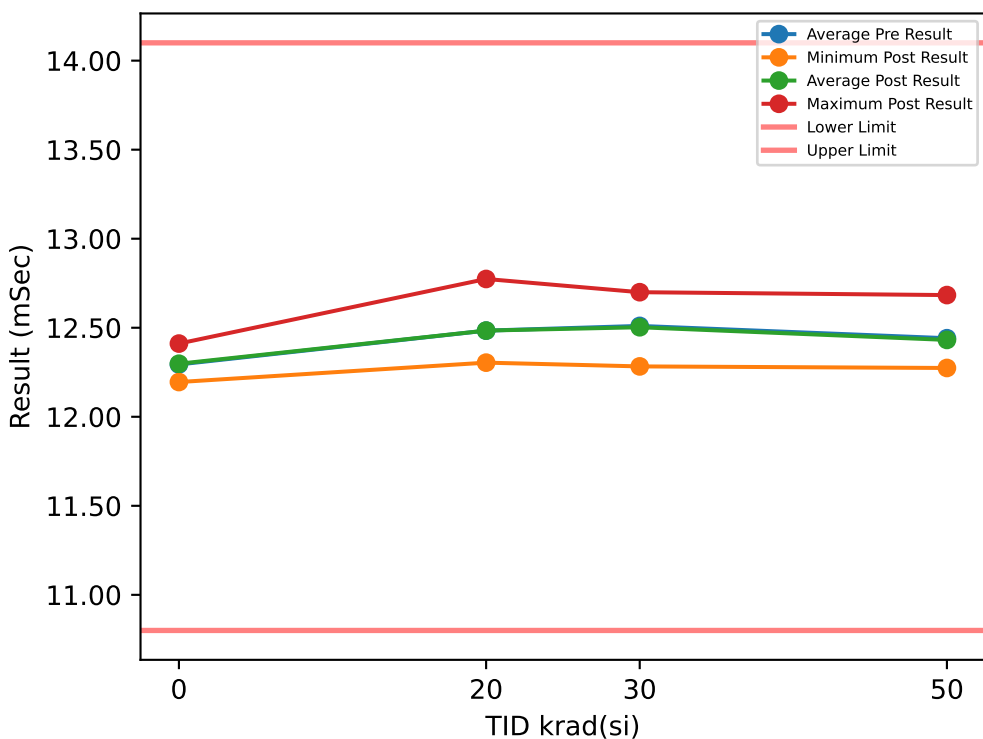
# Device Test: 18.30  REG_TIME_500KOHM(_DELAY|TIMING/SENSE2/7/3/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.652 | 12.653 | 0.0007 |
| 2 | 20 | Bias | 12.786 | 12.774 | -0.0118 |
| 3 | 20 | Bias | 12.693 | 12.731 | 0.0373 |
| 4 | 20 | Bias | 12.427 | 12.387 | -0.0407 |
| 5 | 20 | Bias | 12.393 | 12.463 | 0.0694 |
| 6 | 20 | Unbiased | 12.36 | 12.304 | -0.0559 |
| 7 | 20 | Unbiased | 12.351 | 12.315 | -0.036 |
| 8 | 20 | Unbiased | 12.372 | 12.373 | 0.0018 |
| 9 | 20 | Unbiased | 12.371 | 12.37 | -0.0012 |
| 10 | 20 | Unbiased | 12.432 | 12.47 | 0.0382 |
| 11 | 30 | Bias | 12.362 | 12.434 | 0.0719 |
| 12 | 30 | Bias | 12.352 | 12.384 | 0.0311 |
| 13 | 30 | Bias | 12.667 | 12.367 | -0.3 |
| 14 | 30 | Bias | 12.74 | 12.601 | -0.1381 |
| 15 | 30 | Bias | 12.503 | 12.694 | 0.1914 |
| 16 | 30 | Unbiased | 12.407 | 12.383 | -0.0232 |
| 17 | 30 | Unbiased | 12.669 | 12.283 | -0.3863 |
| 18 | 30 | Unbiased | 12.54 | 12.681 | 0.1403 |
| 19 | 30 | Unbiased | 12.428 | 12.7 | 0.272 |
| 20 | 30 | Unbiased | 12.436 | 12.502 | 0.0658 |
| 21 | 50 | Bias | 12.415 | 12.354 | -0.0608 |
| 22 | 50 | Bias | 12.167 | 12.418 | 0.2509 |
| 23 | 50 | Bias | 12.41 | 12.274 | -0.1357 |
| 24 | 50 | Bias | 12.686 | 12.333 | -0.3531 |
| 25 | 50 | Bias | 12.47 | 12.582 | 0.1129 |
| 26 | 50 | Unbiased | 12.296 | 12.424 | 0.128 |
| 27 | 50 | Unbiased | 12.431 | 12.284 | -0.1476 |
| 28 | 50 | Unbiased | 12.693 | 12.684 | -0.0091 |
| 29 | 50 | Unbiased | 12.428 | 12.556 | 0.1275 |
| 30 | 50 | Unbiased | 12.416 | 12.407 | -0.0088 |
| 31 | 0 | Correlation | 12.271 | 12.195 | -0.0759 |
| 32 | 0 | Correlation | 12.306 | 12.327 | 0.0212 |
| 33 | 0 | Correlation | 12.262 | 12.258 | -0.0039 |
| 34 | 0 | Correlation | 12.336 | 12.411 | 0.0748 |

## Test Statistics (mSec)
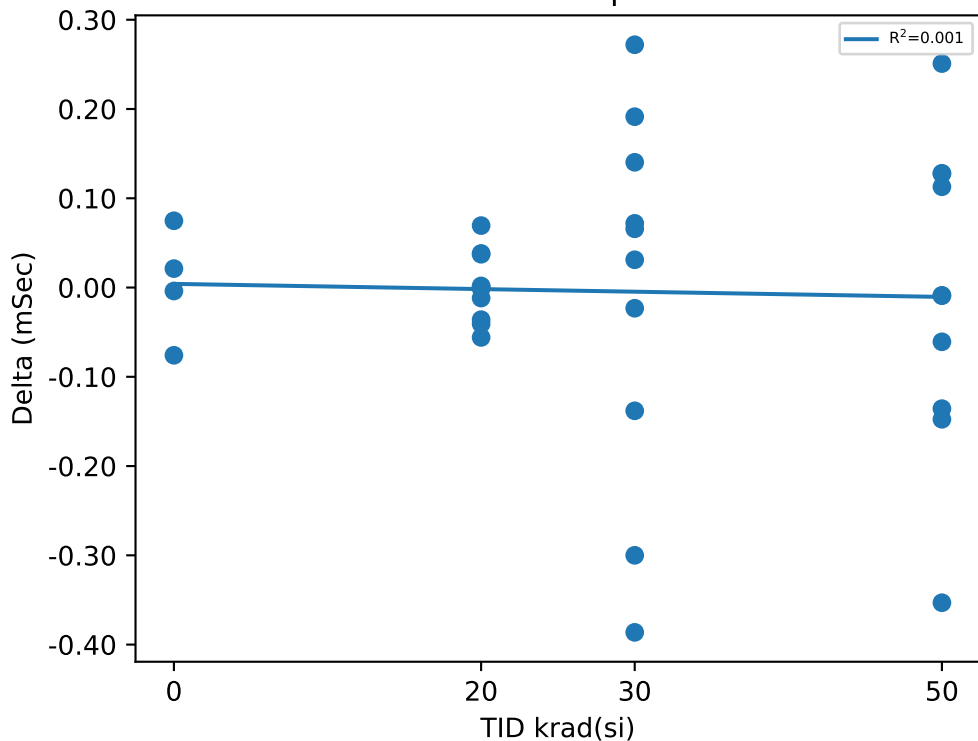
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.262 | 12.294 | 12.336 | 0.033918 | 12.195 | 12.298 | 12.411 | 0.092682 | -0.0759 | 0.00405 | 0.0748 | 0.062596 |
| 20 | 12.351 | 12.484 | 12.786 | 0.16181 | 12.304 | 12.484 | 12.774 | 0.17309 | -0.0559 | 0.00018 | 0.0694 | 0.039283 |
| 30 | 12.352 | 12.51 | 12.74 | 0.13881 | 12.283 | 12.503 | 12.7 | 0.15518 | -0.3863 | -0.00751 | 0.272 | 0.21057 |
| 50 | 12.167 | 12.441 | 12.693 | 0.15727 | 12.274 | 12.432 | 12.684 | 0.13535 | -0.3531 | -0.00958 | 0.2509 | 0.17517 |
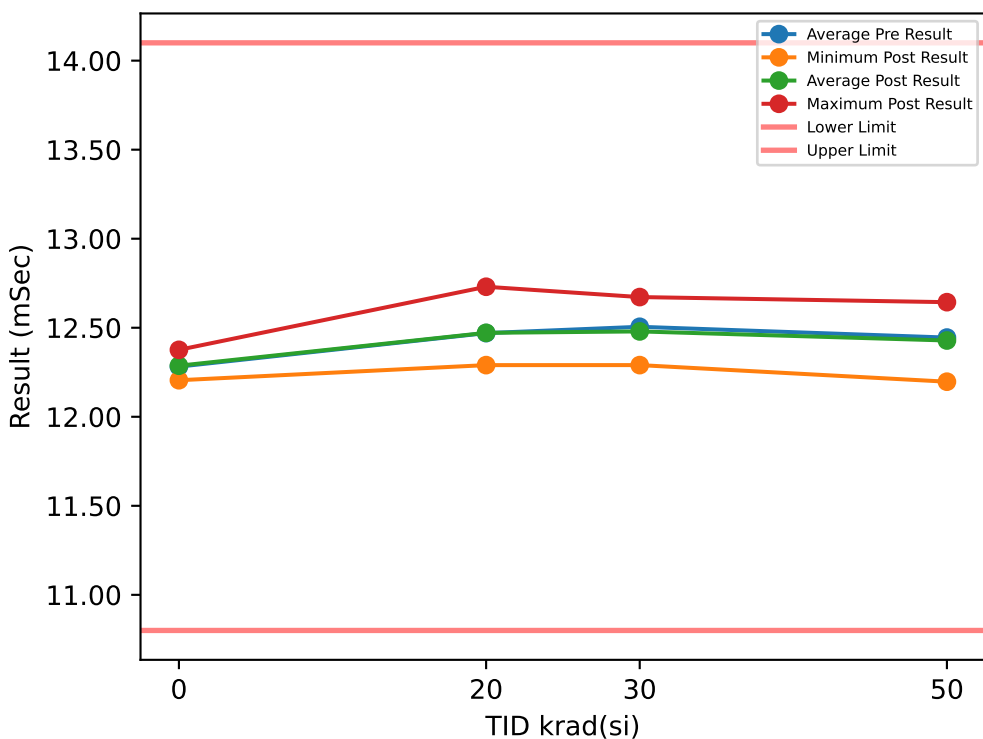
# Device Test: 18.31  REG_TIME_500KOHM(_DELAY|TIMING/SENSE3/7/3/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.628 | 12.623 | -0.0047 |
| 2 | 20 | Bias | 12.761 | 12.73 | -0.0313 |
| 3 | 20 | Bias | 12.667 | 12.68 | 0.013 |
| 4 | 20 | Bias | 12.459 | 12.362 | -0.0974 |
| 5 | 20 | Bias | 12.394 | 12.436 | 0.0416 |
| 6 | 20 | Unbiased | 12.311 | 12.29 | -0.0206 |
| 7 | 20 | Unbiased | 12.286 | 12.332 | 0.0464 |
| 8 | 20 | Unbiased | 12.457 | 12.413 | -0.044 |
| 9 | 20 | Unbiased | 12.336 | 12.378 | 0.0425 |
| 10 | 20 | Unbiased | 12.4 | 12.469 | 0.0695 |
| 11 | 30 | Bias | 12.362 | 12.416 | 0.0548 |
| 12 | 30 | Bias | 12.369 | 12.344 | -0.0258 |
| 13 | 30 | Bias | 12.642 | 12.373 | -0.2685 |
| 14 | 30 | Bias | 12.707 | 12.57 | -0.1364 |
| 15 | 30 | Bias | 12.475 | 12.648 | 0.1736 |
| 16 | 30 | Unbiased | 12.367 | 12.375 | 0.0084 |
| 17 | 30 | Unbiased | 12.642 | 12.29 | -0.3516 |
| 18 | 30 | Unbiased | 12.616 | 12.659 | 0.0432 |
| 19 | 30 | Unbiased | 12.447 | 12.672 | 0.2258 |
| 20 | 30 | Unbiased | 12.429 | 12.445 | 0.0167 |
| 21 | 50 | Bias | 12.435 | 12.359 | -0.0754 |
| 22 | 50 | Bias | 12.207 | 12.394 | 0.1862 |
| 23 | 50 | Bias | 12.428 | 12.197 | -0.2307 |
| 24 | 50 | Bias | 12.621 | 12.384 | -0.2367 |
| 25 | 50 | Bias | 12.498 | 12.555 | 0.0575 |
| 26 | 50 | Unbiased | 12.354 | 12.374 | 0.0203 |
| 27 | 50 | Unbiased | 12.43 | 12.335 | -0.0949 |
| 28 | 50 | Unbiased | 12.675 | 12.644 | -0.0318 |
| 29 | 50 | Unbiased | 12.401 | 12.601 | 0.2001 |
| 30 | 50 | Unbiased | 12.399 | 12.44 | 0.0403 |
| 31 | 0 | Correlation | 12.19 | 12.205 | 0.0148 |
| 32 | 0 | Correlation | 12.334 | 12.326 | -0.0076 |
| 33 | 0 | Correlation | 12.271 | 12.24 | -0.0313 |
| 34 | 0 | Correlation | 12.331 | 12.376 | 0.0446 |

## Test Statistics (mSec)
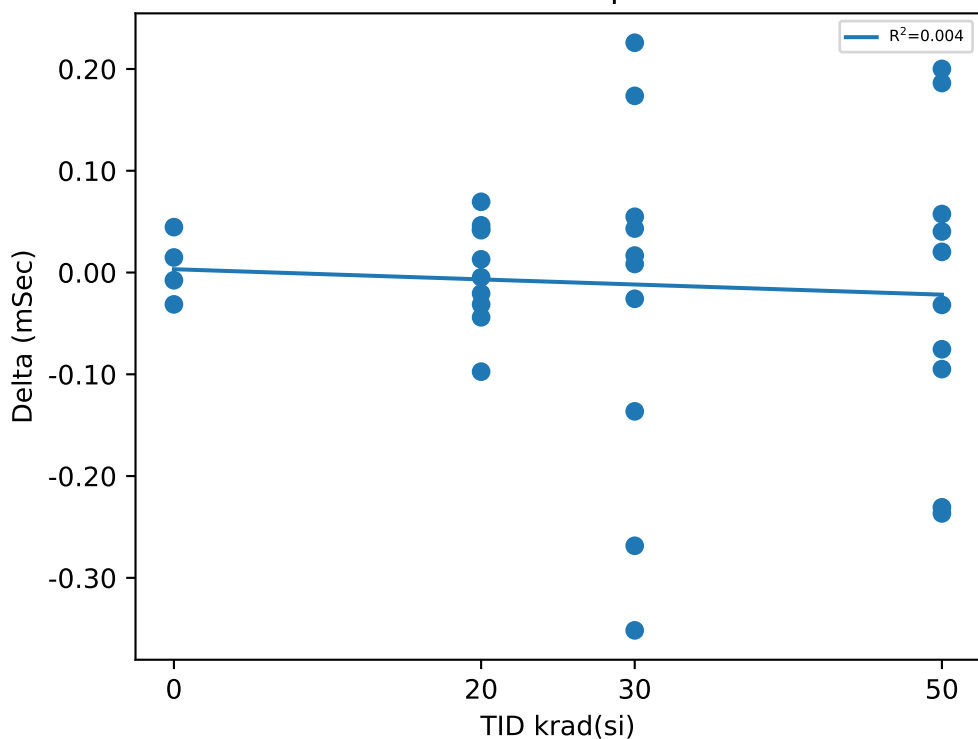
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.19 | 12.282 | 12.334 | 0.067443 | 12.205 | 12.287 | 12.376 | 0.078281 | -0.0313 | 0.005125 | 0.0446 | 0.032355 |
| 20 | 12.286 | 12.47 | 12.761 | 0.16224 | 12.29 | 12.471 | 12.73 | 0.15311 | -0.0974 | 0.0015 | 0.0695 | 0.051116 |
| 30 | 12.362 | 12.505 | 12.707 | 0.13273 | 12.29 | 12.479 | 12.672 | 0.14442 | -0.3516 | -0.02598 | 0.2258 | 0.18092 |
| 50 | 12.207 | 12.445 | 12.675 | 0.13179 | 12.197 | 12.428 | 12.644 | 0.13558 | -0.2367 | -0.01651 | 0.2001 | 0.14992 |
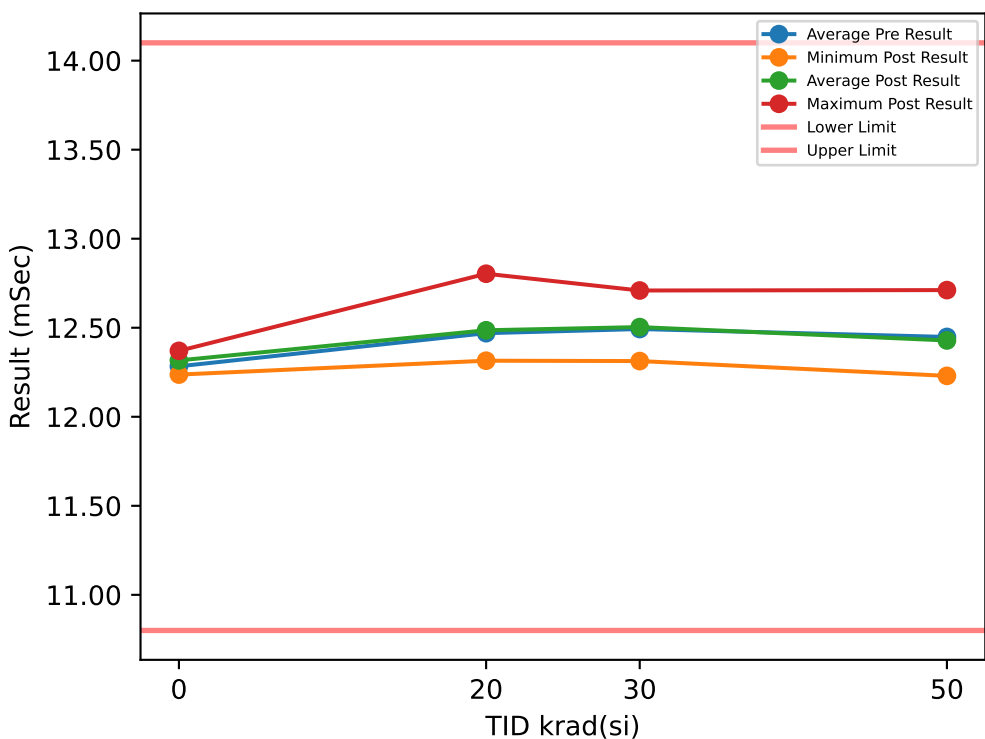
# Device Test: 18.32  REG_TIME_500KOHM(_DELAY|TIMING/SENSE4/7/3/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 12.668 | 12.599 | -0.0686 |
| 2 | 20 | Bias | 12.734 | 12.803 | 0.0693 |
| 3 | 20 | Bias | 12.618 | 12.742 | 0.1235 |
| 4 | 20 | Bias | 12.407 | 12.366 | -0.0415 |
| 5 | 20 | Bias | 12.447 | 12.502 | 0.0544 |
| 6 | 20 | Unbiased | 12.367 | 12.319 | -0.0485 |
| 7 | 20 | Unbiased | 12.297 | 12.315 | 0.0182 |
| 8 | 20 | Unbiased | 12.455 | 12.428 | -0.0277 |
| 9 | 20 | Unbiased | 12.296 | 12.327 | 0.0302 |
| 10 | 20 | Unbiased | 12.405 | 12.459 | 0.0542 |
| 11 | 30 | Bias | 12.351 | 12.425 | 0.0743 |
| 12 | 30 | Bias | 12.395 | 12.341 | -0.0535 |
| 13 | 30 | Bias | 12.606 | 12.424 | -0.1818 |
| 14 | 30 | Bias | 12.674 | 12.572 | -0.1027 |
| 15 | 30 | Bias | 12.503 | 12.636 | 0.1329 |
| 16 | 30 | Unbiased | 12.32 | 12.459 | 0.1387 |
| 17 | 30 | Unbiased | 12.695 | 12.313 | -0.3826 |
| 18 | 30 | Unbiased | 12.59 | 12.709 | 0.1195 |
| 19 | 30 | Unbiased | 12.416 | 12.644 | 0.2278 |
| 20 | 30 | Unbiased | 12.378 | 12.514 | 0.1362 |
| 21 | 50 | Bias | 12.486 | 12.299 | -0.188 |
| 22 | 50 | Bias | 12.2 | 12.401 | 0.2007 |
| 23 | 50 | Bias | 12.397 | 12.23 | -0.1671 |
| 24 | 50 | Bias | 12.705 | 12.375 | -0.3302 |
| 25 | 50 | Bias | 12.471 | 12.527 | 0.0564 |
| 26 | 50 | Unbiased | 12.342 | 12.414 | 0.0712 |
| 27 | 50 | Unbiased | 12.392 | 12.31 | -0.0823 |
| 28 | 50 | Unbiased | 12.66 | 12.711 | 0.0512 |
| 29 | 50 | Unbiased | 12.434 | 12.614 | 0.1795 |
| 30 | 50 | Unbiased | 12.395 | 12.406 | 0.0107 |
| 31 | 0 | Correlation | 12.228 | 12.237 | 0.0089 |
| 32 | 0 | Correlation | 12.283 | 12.356 | 0.0731 |
| 33 | 0 | Correlation | 12.261 | 12.303 | 0.0422 |
| 34 | 0 | Correlation | 12.362 | 12.37 | 0.0081 |

## Test Statistics (mSec)
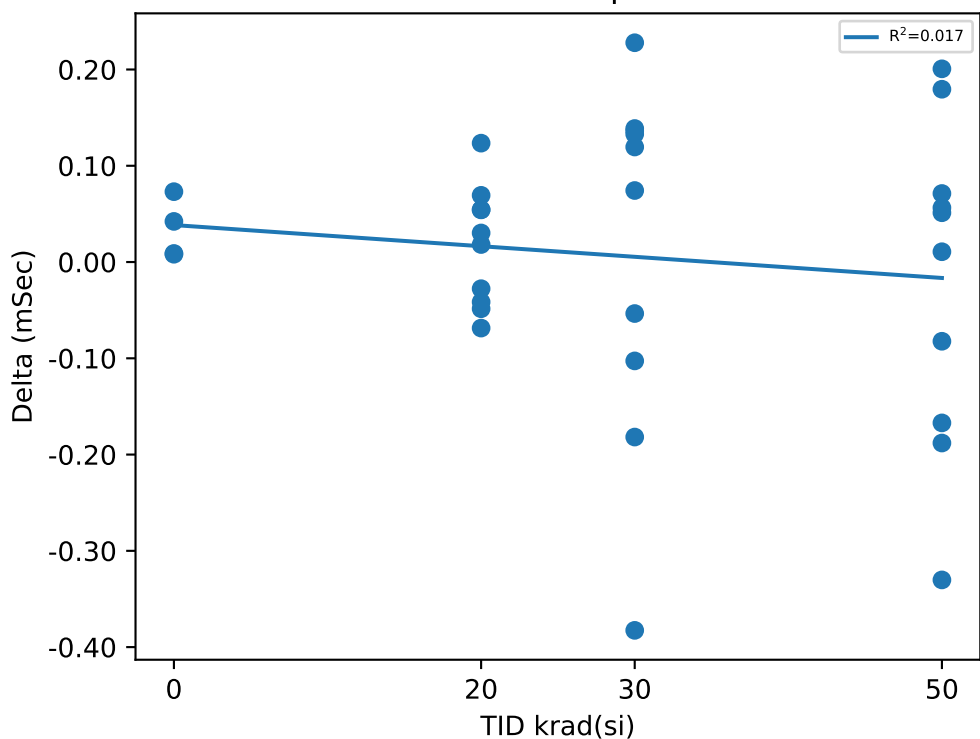
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 12.228 | 12.283 | 12.362 | 0.057053 | 12.237 | 12.317 | 12.37 | 0.060369 | 0.0081 | 0.033075 | 0.0731 | 0.031056 |
| 20 | 12.296 | 12.469 | 12.734 | 0.15288 | 12.315 | 12.486 | 12.803 | 0.1765 | -0.0686 | 0.01635 | 0.1235 | 0.061526 |
| 30 | 12.32 | 12.493 | 12.695 | 0.13947 | 12.313 | 12.504 | 12.709 | 0.13392 | -0.3826 | 0.01088 | 0.2278 | 0.18821 |
| 50 | 12.2 | 12.448 | 12.705 | 0.14692 | 12.23 | 12.429 | 12.711 | 0.14871 | -0.3302 | -0.01979 | 0.2007 | 0.16952 |
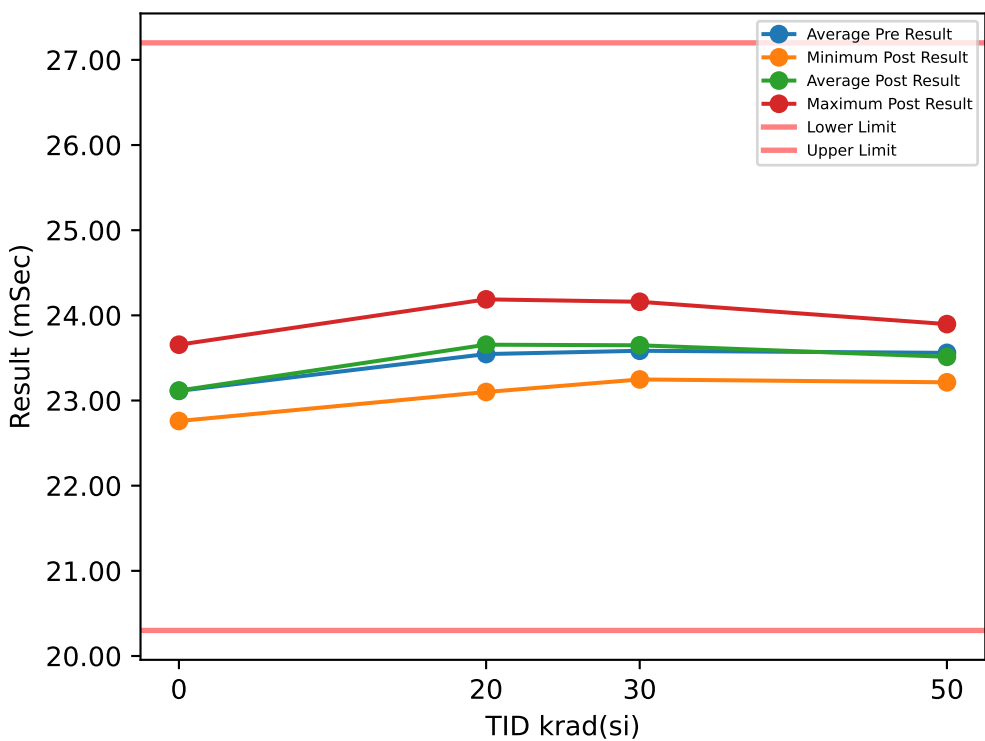
# Device Test: 18.33  REG_TIME_1MOHM(_DELAY|TIMING/SENSE1/7/3/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.733 | 24.073 | 0.3396 |
| 2 | 20 | Bias | 24.227 | 24.087 | -0.1405 |
| 3 | 20 | Bias | 24.037 | 24.188 | 0.1506 |
| 4 | 20 | Bias | 23.273 | 23.166 | -0.1064 |
| 5 | 20 | Bias | 23.45 | 23.566 | 0.1159 |
| 6 | 20 | Unbiased | 23.043 | 23.352 | 0.309 |
| 7 | 20 | Unbiased | 23.049 | 23.1 | 0.0512 |
| 8 | 20 | Unbiased | 23.594 | 23.83 | 0.2361 |
| 9 | 20 | Unbiased | 23.25 | 23.594 | 0.3437 |
| 10 | 20 | Unbiased | 23.798 | 23.6 | -0.198 |
| 11 | 30 | Bias | 23.487 | 23.443 | -0.0441 |
| 12 | 30 | Bias | 23.157 | 23.494 | 0.337 |
| 13 | 30 | Bias | 23.952 | 23.458 | -0.4939 |
| 14 | 30 | Bias | 23.842 | 23.766 | -0.0766 |
| 15 | 30 | Bias | 23.369 | 23.756 | 0.3866 |
| 16 | 30 | Unbiased | 23.546 | 23.247 | -0.2989 |
| 17 | 30 | Unbiased | 23.896 | 23.467 | -0.4288 |
| 18 | 30 | Unbiased | 23.69 | 23.871 | 0.1812 |
| 19 | 30 | Unbiased | 23.661 | 24.16 | 0.4984 |
| 20 | 30 | Unbiased | 23.241 | 23.825 | 0.5844 |
| 21 | 50 | Bias | 23.372 | 23.429 | 0.0579 |
| 22 | 50 | Bias | 22.846 | 23.455 | 0.6087 |
| 23 | 50 | Bias | 23.691 | 23.214 | -0.4775 |
| 24 | 50 | Bias | 24.156 | 23.593 | -0.5634 |
| 25 | 50 | Bias | 23.247 | 23.631 | 0.3832 |
| 26 | 50 | Unbiased | 23.553 | 23.326 | -0.2267 |
| 27 | 50 | Unbiased | 23.735 | 23.527 | -0.2071 |
| 28 | 50 | Unbiased | 24.097 | 23.745 | -0.352 |
| 29 | 50 | Unbiased | 23.52 | 23.897 | 0.3777 |
| 30 | 50 | Unbiased | 23.381 | 23.313 | -0.0685 |
| 31 | 0 | Correlation | 23.069 | 22.759 | -0.3094 |
| 32 | 0 | Correlation | 23.372 | 23.043 | -0.3291 |
| 33 | 0 | Correlation | 22.999 | 23.009 | 0.0108 |
| 34 | 0 | Correlation | 23.013 | 23.655 | 0.6426 |

## Test Statistics (mSec)
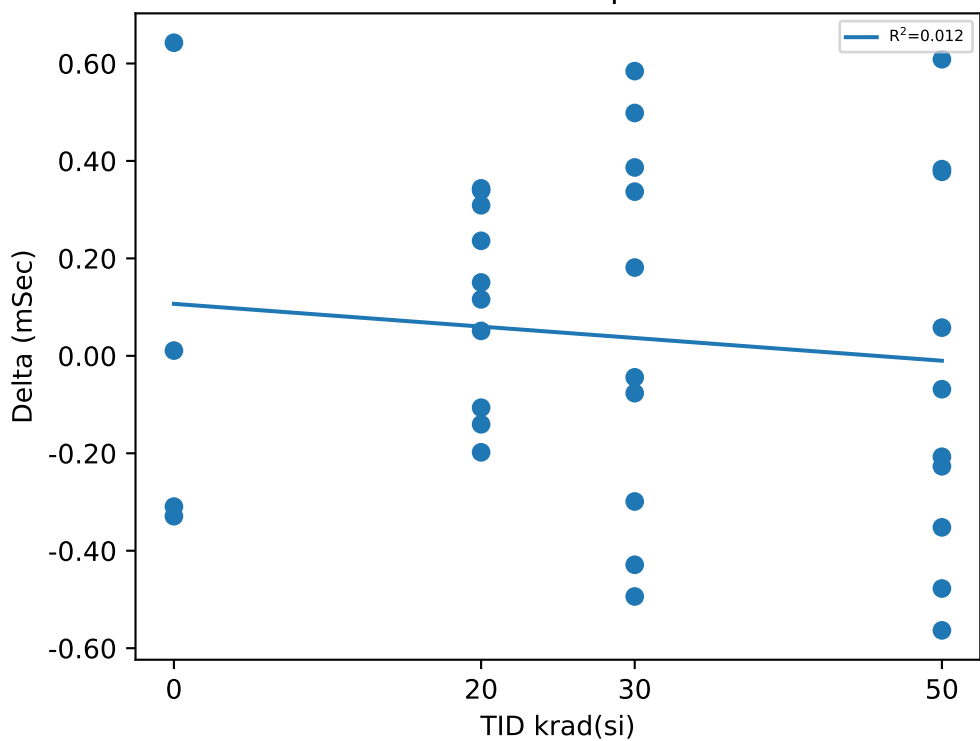
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.999 | 23.113 | 23.372 | 0.17538 | 22.759 | 23.117 | 23.655 | 0.38078 | -0.3291 | 0.003725 | 0.6426 | 0.45352 |
| 20 | 23.043 | 23.545 | 24.227 | 0.4051 | 23.1 | 23.656 | 24.188 | 0.38417 | -0.198 | 0.11012 | 0.3437 | 0.20342 |
| 30 | 23.157 | 23.584 | 23.952 | 0.27354 | 23.247 | 23.649 | 24.16 | 0.27151 | -0.4939 | 0.06453 | 0.5844 | 0.39003 |
| 50 | 22.846 | 23.56 | 24.156 | 0.38979 | 23.214 | 23.513 | 23.897 | 0.20994 | -0.5634 | -0.04677 | 0.6087 | 0.39578 |
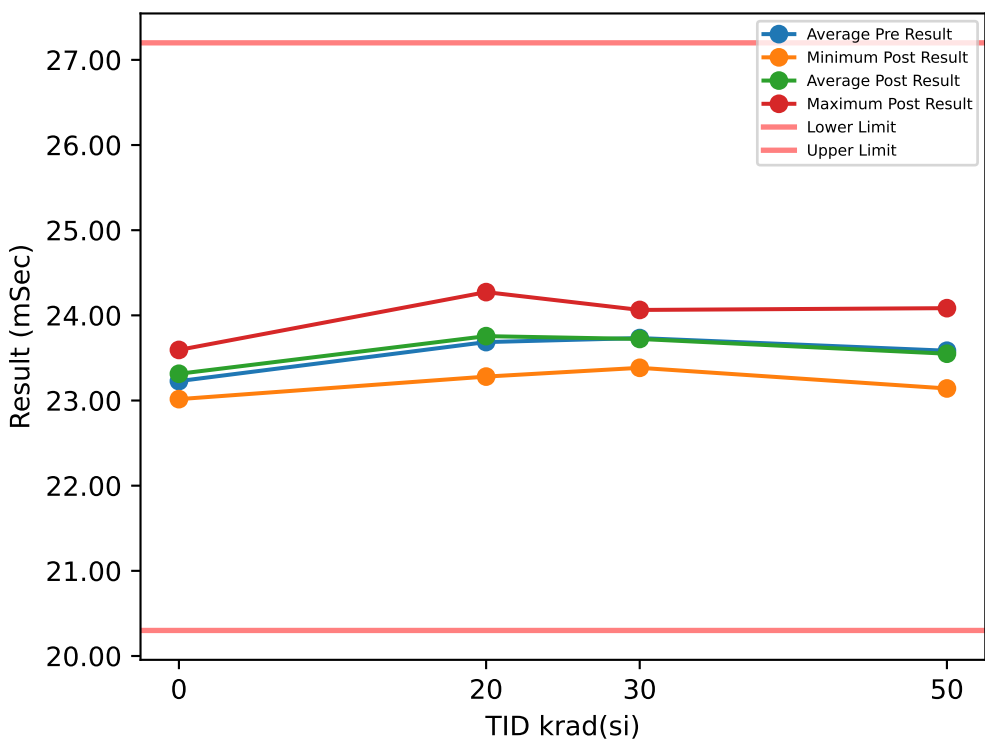
# Device Test: 18.34  REG_TIME_1MOHM(_DELAY|TIMING/SENSE2/7/3/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.874 | 24.077 | 0.203 |
| 2 | 20 | Bias | 24.176 | 24.273 | 0.0966 |
| 3 | 20 | Bias | 23.99 | 24.109 | 0.1198 |
| 4 | 20 | Bias | 23.471 | 23.505 | 0.0343 |
| 5 | 20 | Bias | 23.776 | 23.847 | 0.0716 |
| 6 | 20 | Unbiased | 23.362 | 23.284 | -0.0789 |
| 7 | 20 | Unbiased | 23.219 | 23.281 | 0.0618 |
| 8 | 20 | Unbiased | 23.854 | 23.842 | -0.0114 |
| 9 | 20 | Unbiased | 23.409 | 23.474 | 0.0652 |
| 10 | 20 | Unbiased | 23.731 | 23.867 | 0.1353 |
| 11 | 30 | Bias | 23.557 | 23.735 | 0.1782 |
| 12 | 30 | Bias | 23.341 | 23.384 | 0.0427 |
| 13 | 30 | Bias | 24.168 | 23.401 | -0.7669 |
| 14 | 30 | Bias | 24.046 | 23.932 | -0.1146 |
| 15 | 30 | Bias | 23.575 | 23.942 | 0.3663 |
| 16 | 30 | Unbiased | 23.53 | 23.401 | -0.1292 |
| 17 | 30 | Unbiased | 24.067 | 23.485 | -0.582 |
| 18 | 30 | Unbiased | 23.978 | 24.036 | 0.0584 |
| 19 | 30 | Unbiased | 23.6 | 24.064 | 0.4639 |
| 20 | 30 | Unbiased | 23.472 | 23.85 | 0.378 |
| 21 | 50 | Bias | 23.524 | 23.492 | -0.0327 |
| 22 | 50 | Bias | 23.064 | 23.339 | 0.2757 |
| 23 | 50 | Bias | 23.663 | 23.142 | -0.5209 |
| 24 | 50 | Bias | 24.062 | 23.475 | -0.5866 |
| 25 | 50 | Bias | 23.47 | 23.547 | 0.0772 |
| 26 | 50 | Unbiased | 23.474 | 23.594 | 0.1199 |
| 27 | 50 | Unbiased | 23.69 | 23.372 | -0.318 |
| 28 | 50 | Unbiased | 24.117 | 24.084 | -0.0325 |
| 29 | 50 | Unbiased | 23.466 | 23.959 | 0.4921 |
| 30 | 50 | Unbiased | 23.318 | 23.491 | 0.1737 |
| 31 | 0 | Correlation | 23.039 | 23.016 | -0.0227 |
| 32 | 0 | Correlation | 23.21 | 23.362 | 0.1515 |
| 33 | 0 | Correlation | 23.311 | 23.285 | -0.0267 |
| 34 | 0 | Correlation | 23.351 | 23.594 | 0.2428 |

## Test Statistics (mSec)
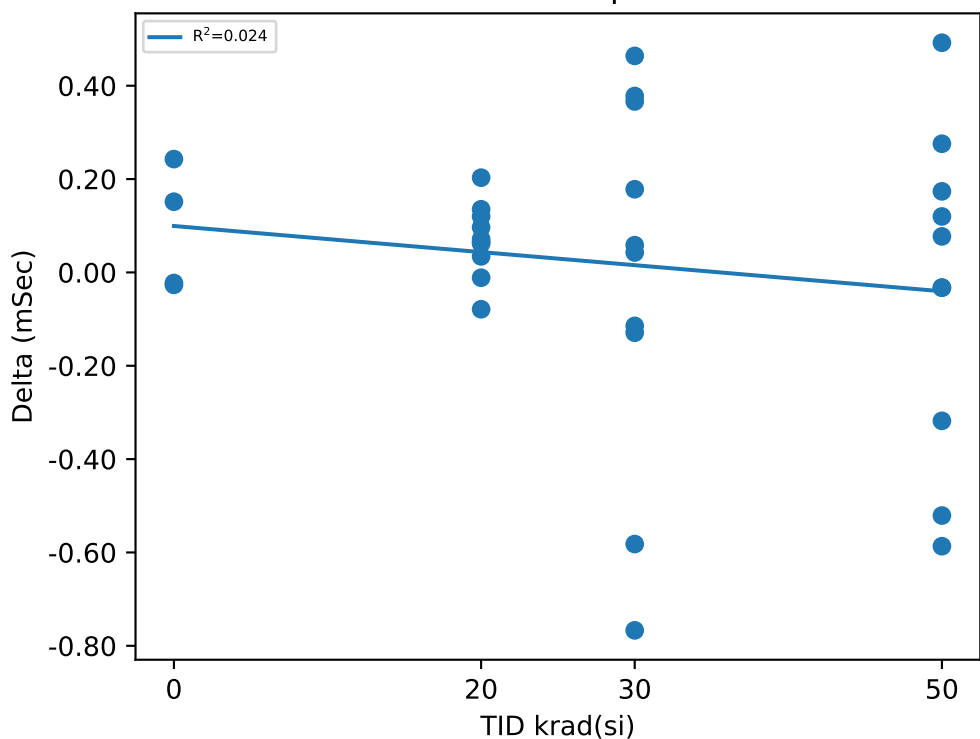
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.039 | 23.228 | 23.351 | 0.1393 | 23.016 | 23.314 | 23.594 | 0.23824 | -0.0267 | 0.086225 | 0.2428 | 0.13341 |
| 20 | 23.219 | 23.686 | 24.176 | 0.30771 | 23.281 | 23.756 | 24.273 | 0.35196 | -0.0789 | 0.06973 | 0.203 | 0.07839 |
| 30 | 23.341 | 23.733 | 24.168 | 0.29718 | 23.384 | 23.723 | 24.064 | 0.27907 | -0.7669 | -0.01052 | 0.4639 | 0.40618 |
| 50 | 23.064 | 23.585 | 24.117 | 0.31867 | 23.142 | 23.55 | 24.084 | 0.28083 | -0.5866 | -0.03521 | 0.4921 | 0.3456 |
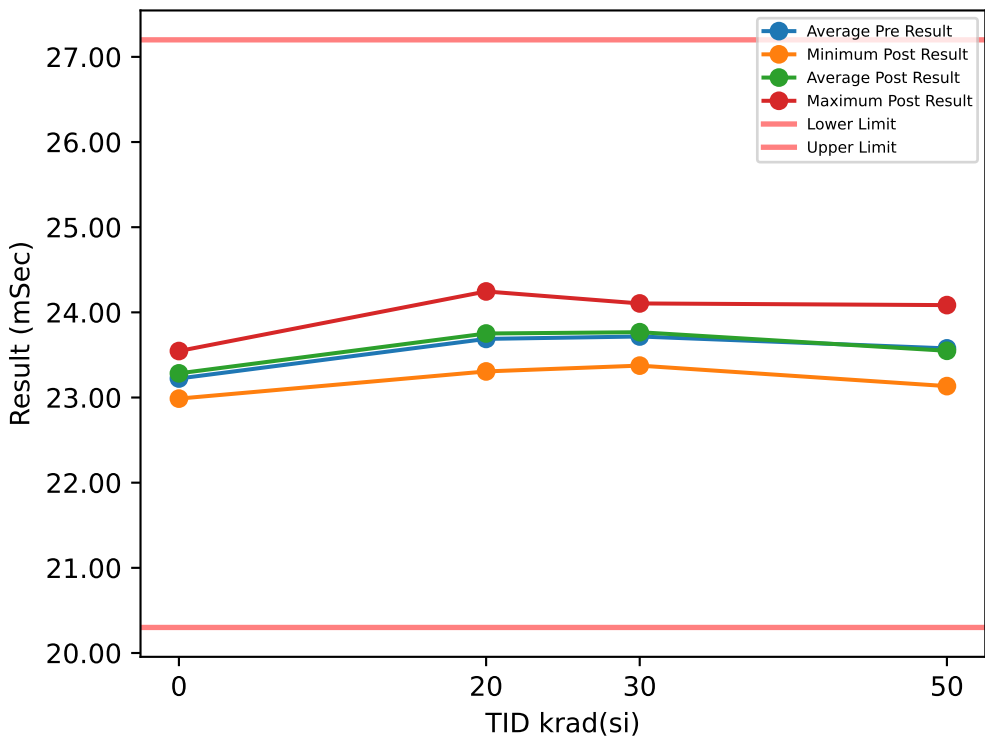
# Device Test: 18.35  REG_TIME_1MOHM(_DELAY|TIMING/SENSE3/7/3/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.042 | 24.025 | -0.0172 |
| 2 | 20 | Bias | 24.121 | 24.246 | 0.1242 |
| 3 | 20 | Bias | 23.96 | 24.219 | 0.2592 |
| 4 | 20 | Bias | 23.465 | 23.484 | 0.0191 |
| 5 | 20 | Bias | 23.747 | 23.811 | 0.063 |
| 6 | 20 | Unbiased | 23.289 | 23.306 | 0.0174 |
| 7 | 20 | Unbiased | 23.355 | 23.402 | 0.047 |
| 8 | 20 | Unbiased | 23.816 | 23.809 | -0.0067 |
| 9 | 20 | Unbiased | 23.398 | 23.465 | 0.0666 |
| 10 | 20 | Unbiased | 23.688 | 23.749 | 0.0614 |
| 11 | 30 | Bias | 23.38 | 23.704 | 0.324 |
| 12 | 30 | Bias | 23.487 | 23.375 | -0.1127 |
| 13 | 30 | Bias | 24.12 | 23.542 | -0.578 |
| 14 | 30 | Bias | 24.002 | 24.089 | 0.0872 |
| 15 | 30 | Bias | 23.557 | 24.105 | 0.5478 |
| 16 | 30 | Unbiased | 23.478 | 23.52 | 0.0415 |
| 17 | 30 | Unbiased | 24.032 | 23.465 | -0.567 |
| 18 | 30 | Unbiased | 23.94 | 24.05 | 0.1105 |
| 19 | 30 | Unbiased | 23.581 | 24.01 | 0.4286 |
| 20 | 30 | Unbiased | 23.587 | 23.81 | 0.2228 |
| 21 | 50 | Bias | 23.525 | 23.451 | -0.0743 |
| 22 | 50 | Bias | 23.061 | 23.422 | 0.3609 |
| 23 | 50 | Bias | 23.636 | 23.134 | -0.5019 |
| 24 | 50 | Bias | 24.181 | 23.481 | -0.6994 |
| 25 | 50 | Bias | 23.406 | 23.511 | 0.1048 |
| 26 | 50 | Unbiased | 23.464 | 23.535 | 0.0703 |
| 27 | 50 | Unbiased | 23.687 | 23.525 | -0.1613 |
| 28 | 50 | Unbiased | 23.939 | 24.085 | 0.1463 |
| 29 | 50 | Unbiased | 23.412 | 23.895 | 0.4827 |
| 30 | 50 | Unbiased | 23.46 | 23.447 | -0.0129 |
| 31 | 0 | Correlation | 22.976 | 22.987 | 0.0114 |
| 32 | 0 | Correlation | 23.348 | 23.355 | 0.0074 |
| 33 | 0 | Correlation | 23.246 | 23.247 | 0.0002 |
| 34 | 0 | Correlation | 23.323 | 23.546 | 0.2229 |

## Test Statistics (mSec)
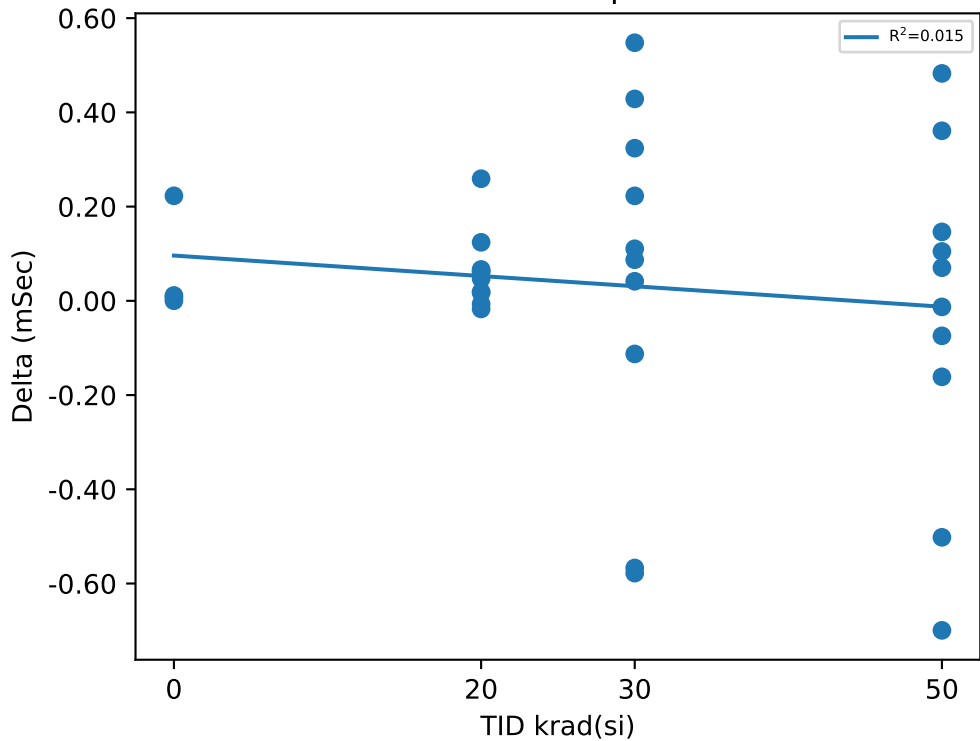
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.976 | 23.223 | 23.348 | 0.17062 | 22.987 | 23.284 | 23.546 | 0.23324 | 0.0002 | 0.060475 | 0.2229 | 0.10838 |
| 20 | 23.289 | 23.688 | 24.121 | 0.3001 | 23.306 | 23.752 | 24.246 | 0.33632 | -0.0172 | 0.0634 | 0.2592 | 0.080143 |
| 30 | 23.38 | 23.716 | 24.12 | 0.27418 | 23.375 | 23.767 | 24.105 | 0.28277 | -0.578 | 0.05047 | 0.5478 | 0.38046 |
| 50 | 23.061 | 23.577 | 24.181 | 0.30959 | 23.134 | 23.549 | 24.085 | 0.26295 | -0.6994 | -0.02848 | 0.4827 | 0.35982 |
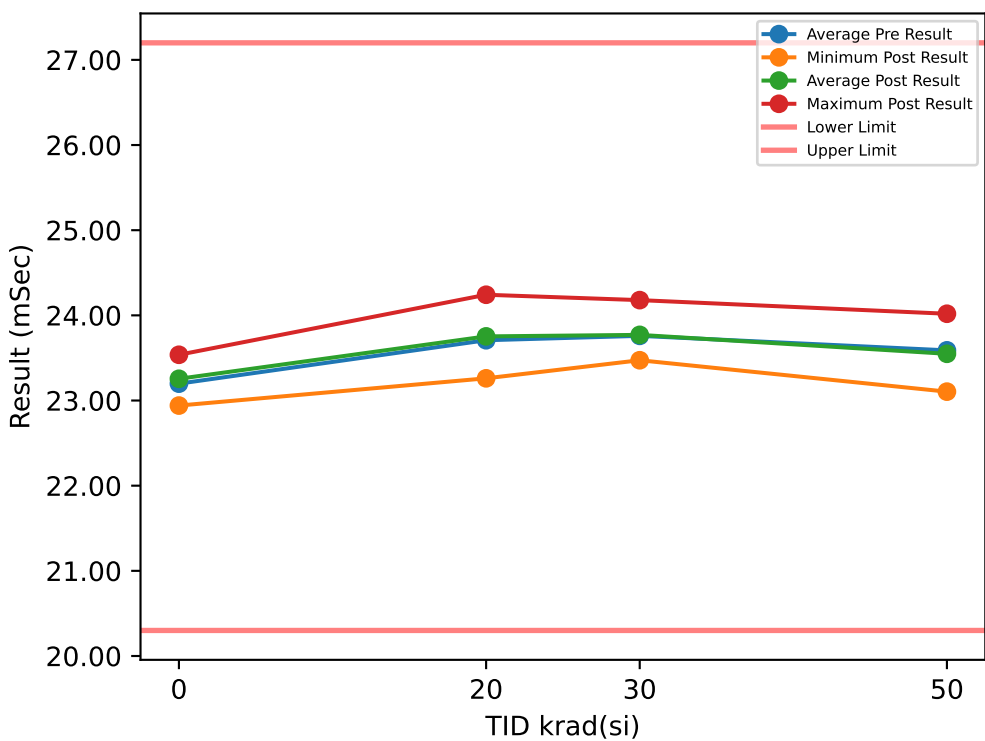
# Device Test: 18.36  REG_TIME_1MOHM(_DELAY|TIMING/SENSE4/7/3/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.025 | 24.037 | 0.0121 |
| 2 | 20 | Bias | 24.123 | 24.237 | 0.1138 |
| 3 | 20 | Bias | 24.103 | 24.242 | 0.1389 |
| 4 | 20 | Bias | 23.438 | 23.477 | 0.0389 |
| 5 | 20 | Bias | 23.719 | 23.779 | 0.0594 |
| 6 | 20 | Unbiased | 23.288 | 23.261 | -0.0274 |
| 7 | 20 | Unbiased | 23.346 | 23.385 | 0.0391 |
| 8 | 20 | Unbiased | 23.826 | 23.784 | -0.0419 |
| 9 | 20 | Unbiased | 23.532 | 23.438 | -0.0943 |
| 10 | 20 | Unbiased | 23.677 | 23.891 | 0.2141 |
| 11 | 30 | Bias | 23.538 | 23.677 | 0.1394 |
| 12 | 30 | Bias | 23.463 | 23.502 | 0.0391 |
| 13 | 30 | Bias | 24.093 | 23.501 | -0.5918 |
| 14 | 30 | Bias | 24.146 | 24.035 | -0.1115 |
| 15 | 30 | Bias | 23.53 | 24.078 | 0.5487 |
| 16 | 30 | Unbiased | 23.616 | 23.482 | -0.1339 |
| 17 | 30 | Unbiased | 24.149 | 23.473 | -0.6757 |
| 18 | 30 | Unbiased | 23.942 | 24.179 | 0.2367 |
| 19 | 30 | Unbiased | 23.559 | 24.006 | 0.4471 |
| 20 | 30 | Unbiased | 23.558 | 23.776 | 0.2174 |
| 21 | 50 | Bias | 23.497 | 23.464 | -0.0329 |
| 22 | 50 | Bias | 23.023 | 23.441 | 0.4185 |
| 23 | 50 | Bias | 23.61 | 23.104 | -0.5061 |
| 24 | 50 | Bias | 24.007 | 23.452 | -0.5547 |
| 25 | 50 | Bias | 23.566 | 23.5 | -0.0655 |
| 26 | 50 | Unbiased | 23.429 | 23.517 | 0.0885 |
| 27 | 50 | Unbiased | 23.657 | 23.519 | -0.1374 |
| 28 | 50 | Unbiased | 24.097 | 24.019 | -0.0782 |
| 29 | 50 | Unbiased | 23.579 | 23.88 | 0.3012 |
| 30 | 50 | Unbiased | 23.428 | 23.59 | 0.1616 |
| 31 | 0 | Correlation | 22.941 | 22.941 | 0 |
| 32 | 0 | Correlation | 23.337 | 23.302 | -0.0342 |
| 33 | 0 | Correlation | 23.254 | 23.24 | -0.0138 |
| 34 | 0 | Correlation | 23.261 | 23.537 | 0.2766 |

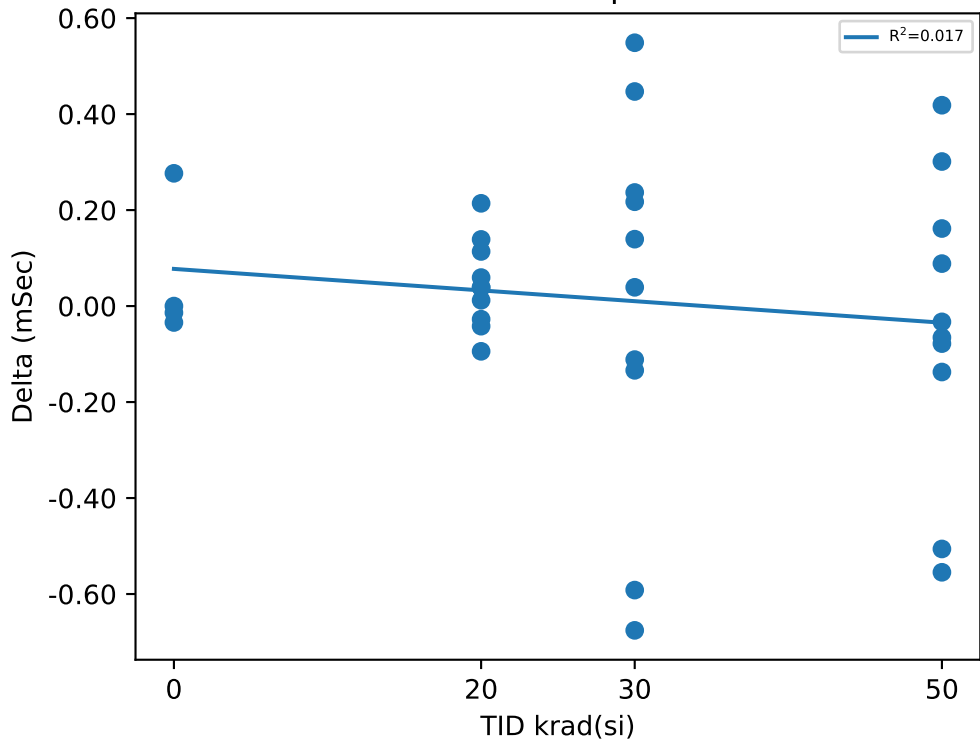## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.941 | 23.198 | 23.337 | 0.17552 | 22.941 | 23.255 | 23.537 | 0.24547 | -0.0342 | 0.05715 | 0.2766 | 0.14697 |
| 20 | 23.288 | 23.708 | 24.123 | 0.3082 | 23.261 | 23.753 | 24.242 | 0.35398 | -0.0943 | 0.04527 | 0.2141 | 0.091715 |
| 30 | 23.463 | 23.759 | 24.149 | 0.28615 | 23.473 | 23.771 | 24.179 | 0.28132 | -0.6757 | 0.01155 | 0.5487 | 0.40291 |
| 50 | 23.023 | 23.589 | 24.097 | 0.3017 | 23.104 | 23.549 | 24.019 | 0.24996 | -0.5547 | -0.0405 | 0.4185 | 0.31227 |
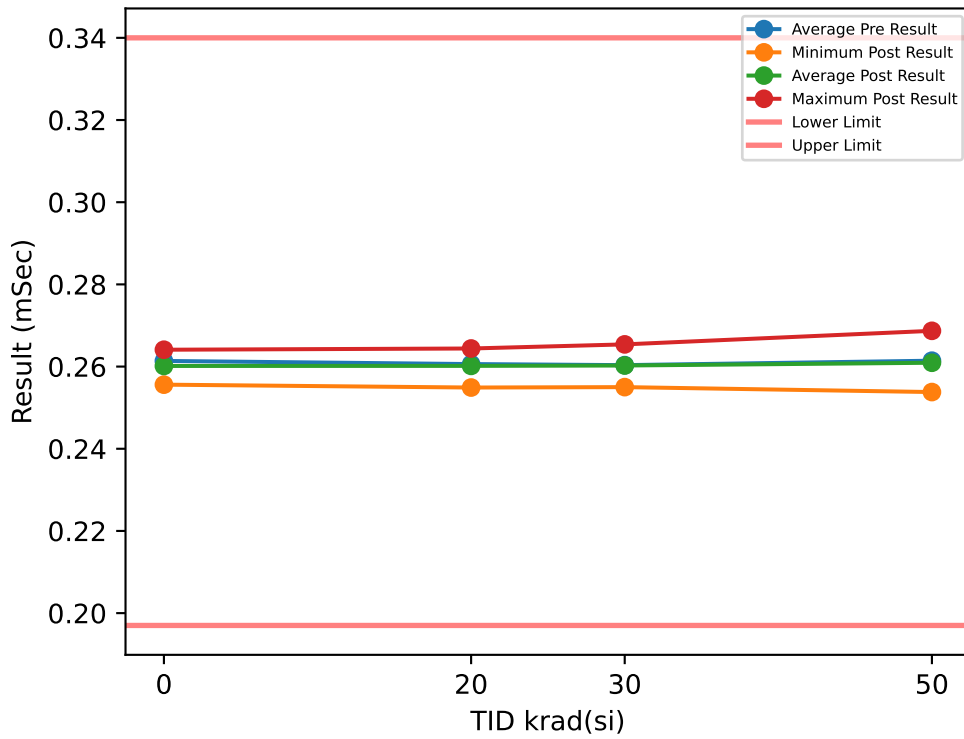
# Device Test: 18.37  REG_TIME_10KOHM(_DELAY|TIMING/SENSE1/7/14/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats

Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Lower Limit, Upper Limit

## TID vs Post - Pre Exposure Delta

$R^2 = 0.002$

## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2646 | 0.263 | -0.0016 |
| 2 | 20 | Bias | 0.2643 | 0.2644 | 0.0001 |
| 3 | 20 | Bias | 0.2639 | 0.2628 | -0.0011 |
| 4 | 20 | Bias | 0.2624 | 0.2619 | -0.0005 |
| 5 | 20 | Bias | 0.2567 | 0.255 | -0.0017 |
| 6 | 20 | Unbiased | 0.2629 | 0.2608 | -0.0021 |
| 7 | 20 | Unbiased | 0.2625 | 0.2635 | 0.001 |
| 8 | 20 | Unbiased | 0.2547 | 0.2549 | 0.0002 |
| 9 | 20 | Unbiased | 0.2565 | 0.2587 | 0.0022 |
| 10 | 20 | Unbiased | 0.2576 | 0.2567 | -0.0009 |
| 11 | 30 | Bias | 0.2591 | 0.255 | -0.0041 |
| 12 | 30 | Bias | 0.262 | 0.2592 | -0.0028 |
| 13 | 30 | Bias | 0.2567 | 0.2634 | 0.0067 |
| 14 | 30 | Bias | 0.2645 | 0.2559 | -0.0086 |
| 15 | 30 | Bias | 0.2615 | 0.2654 | 0.0039 |
| 16 | 30 | Unbiased | 0.257 | 0.2629 | 0.0059 |
| 17 | 30 | Unbiased | 0.2608 | 0.2572 | -0.0036 |
| 18 | 30 | Unbiased | 0.2645 | 0.2615 | -0.003 |
| 19 | 30 | Unbiased | 0.257 | 0.2637 | 0.0067 |
| 20 | 30 | Unbiased | 0.2604 | 0.2584 | -0.002 |
| 21 | 50 | Bias | 0.2637 | 0.2594 | -0.0043 |
| 22 | 50 | Bias | 0.2612 | 0.2635 | 0.0023 |
| 23 | 50 | Bias | 0.2564 | 0.2606 | 0.0042 |
| 24 | 50 | Bias | 0.2616 | 0.256 | -0.0056 |
| 25 | 50 | Bias | 0.2704 | 0.2687 | -0.0017 |
| 26 | 50 | Unbiased | 0.256 | 0.2554 | -0.0006 |
| 27 | 50 | Unbiased | 0.2531 | 0.2538 | 0.0007 |
| 28 | 50 | Unbiased | 0.2664 | 0.2671 | 0.0007 |
| 29 | 50 | Unbiased | 0.2633 | 0.2633 | 0 |
| 30 | 50 | Unbiased | 0.2622 | 0.2615 | -0.0007 |
| 31 | 0 | Correlation | 0.2632 | 0.2641 | 0.0009 |
| 32 | 0 | Correlation | 0.262 | 0.261 | -0.001 |
| 33 | 0 | Correlation | 0.2599 | 0.2599 | 0 |
| 34 | 0 | Correlation | 0.2604 | 0.2556 | -0.0048 |

## Test Statistics (mSec)
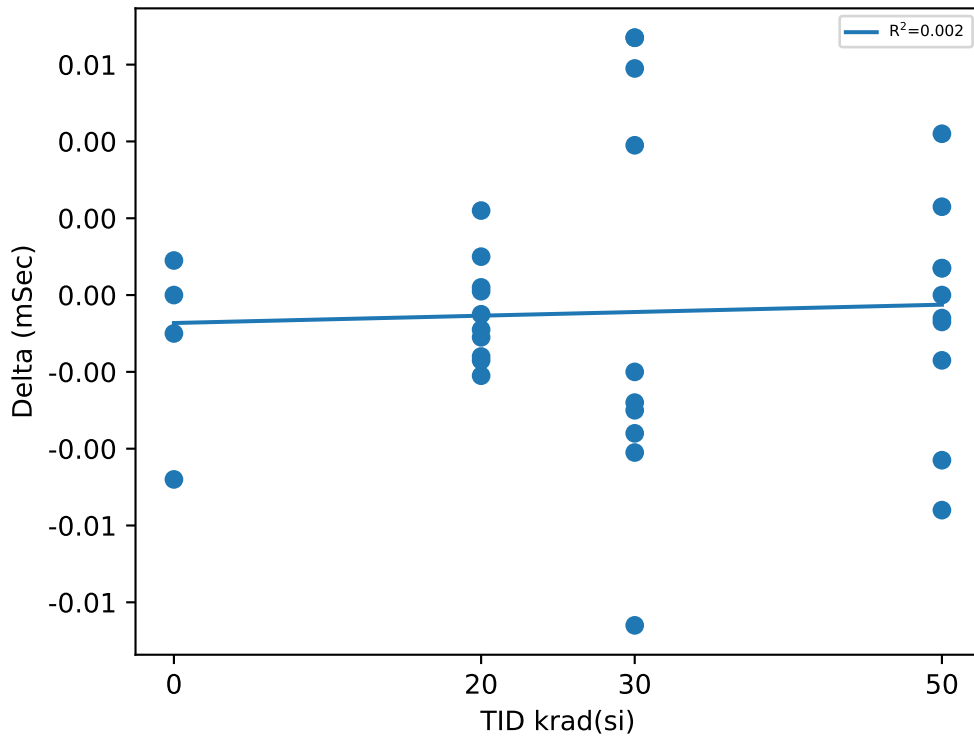
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2599 | 0.26138 | 0.2632 | 0.0015108 | 0.2556 | 0.26015 | 0.2641 | 0.0035162 | -0.0048 | -0.001225 | 0.0009 | 0.0025065 |
| 20 | 0.2547 | 0.26061 | 0.2646 | 0.0037793 | 0.2549 | 0.26017 | 0.2644 | 0.0035901 | -0.0021 | -0.00044 | 0.0022 | 0.0013368 |
| 30 | 0.2567 | 0.26035 | 0.2645 | 0.0029064 | 0.255 | 0.26026 | 0.2654 | 0.0036093 | -0.0086 | -9e-05 | 0.0067 | 0.005419 |
| 50 | 0.2531 | 0.26143 | 0.2704 | 0.0051496 | 0.2538 | 0.26093 | 0.2687 | 0.0049347 | -0.0056 | -0.0005 | 0.0042 | 0.0028868 |
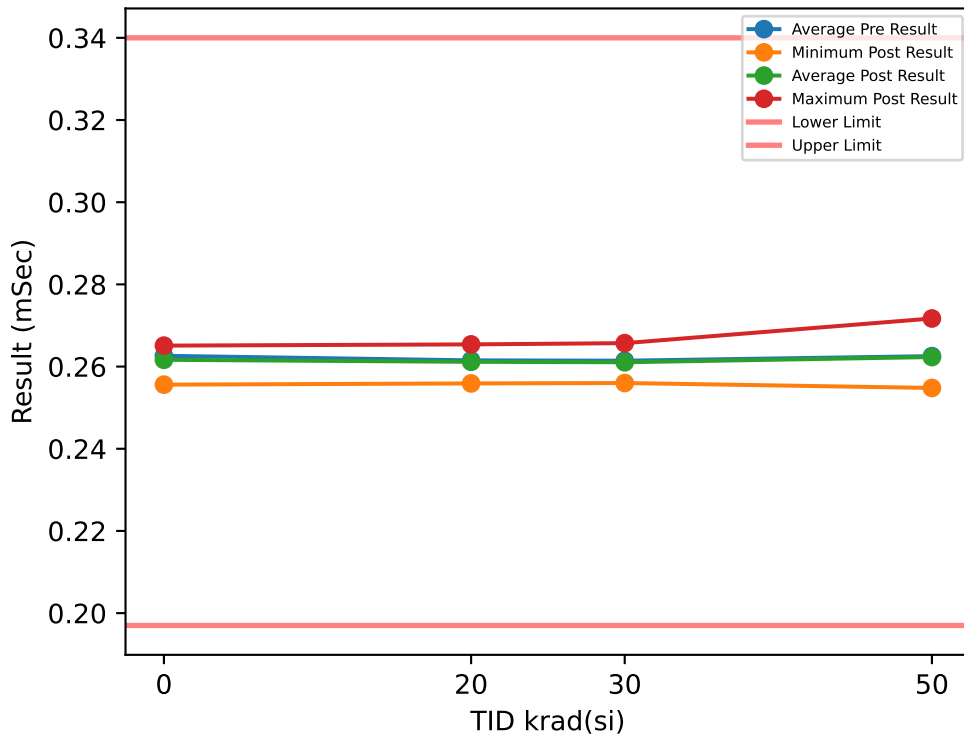
# Device Test: 18.38  REG_TIME_10KOHM(_DELAY|TIMING/SENSE2/7/14/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2646 | 0.264 | -0.0006 |
| 2 | 20 | Bias | 0.2663 | 0.2654 | -0.0009 |
| 3 | 20 | Bias | 0.2659 | 0.2648 | -0.0011 |
| 4 | 20 | Bias | 0.2635 | 0.2629 | -0.0006 |
| 5 | 20 | Bias | 0.2577 | 0.2579 | 0.0002 |
| 6 | 20 | Unbiased | 0.2629 | 0.2628 | -0.0001 |
| 7 | 20 | Unbiased | 0.2625 | 0.2625 | 0 |
| 8 | 20 | Unbiased | 0.2567 | 0.2559 | -0.0008 |
| 9 | 20 | Unbiased | 0.2575 | 0.2587 | 0.0012 |
| 10 | 20 | Unbiased | 0.2575 | 0.2567 | -0.0008 |
| 11 | 30 | Bias | 0.2602 | 0.256 | -0.0042 |
| 12 | 30 | Bias | 0.2639 | 0.2602 | -0.0037 |
| 13 | 30 | Bias | 0.2577 | 0.2634 | 0.0057 |
| 14 | 30 | Bias | 0.2645 | 0.2579 | -0.0066 |
| 15 | 30 | Bias | 0.2624 | 0.2654 | 0.003 |
| 16 | 30 | Unbiased | 0.257 | 0.2629 | 0.0059 |
| 17 | 30 | Unbiased | 0.2638 | 0.2582 | -0.0056 |
| 18 | 30 | Unbiased | 0.2645 | 0.2614 | -0.0031 |
| 19 | 30 | Unbiased | 0.259 | 0.2657 | 0.0067 |
| 20 | 30 | Unbiased | 0.2613 | 0.2594 | -0.0019 |
| 21 | 50 | Bias | 0.2647 | 0.2604 | -0.0043 |
| 22 | 50 | Bias | 0.2622 | 0.2645 | 0.0023 |
| 23 | 50 | Bias | 0.2584 | 0.2616 | 0.0032 |
| 24 | 50 | Bias | 0.2626 | 0.2579 | -0.0047 |
| 25 | 50 | Bias | 0.2704 | 0.2717 | 0.0013 |
| 26 | 50 | Unbiased | 0.258 | 0.2584 | 0.0004 |
| 27 | 50 | Unbiased | 0.2551 | 0.2548 | -0.0003 |
| 28 | 50 | Unbiased | 0.2665 | 0.2671 | 0.0006 |
| 29 | 50 | Unbiased | 0.2643 | 0.2633 | -0.001 |
| 30 | 50 | Unbiased | 0.2632 | 0.2635 | 0.0003 |
| 31 | 0 | Correlation | 0.2642 | 0.2651 | 0.0009 |
| 32 | 0 | Correlation | 0.262 | 0.264 | 0.002 |
| 33 | 0 | Correlation | 0.2619 | 0.2619 | 0 |
| 34 | 0 | Correlation | 0.2624 | 0.2556 | -0.0068 |

## Test Statistics (mSec)
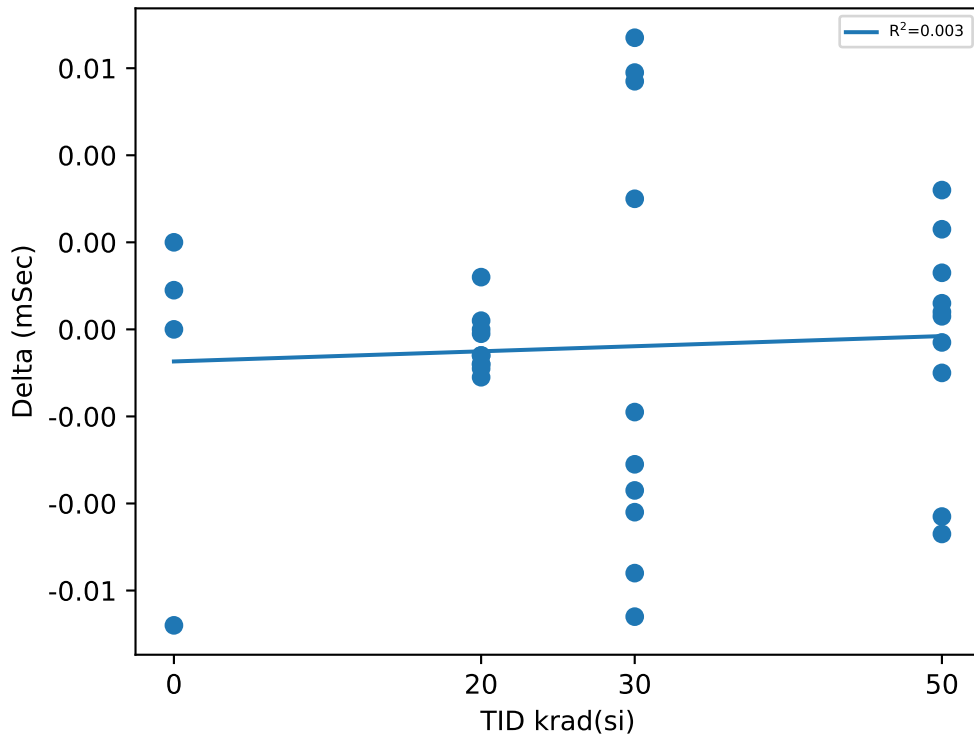
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2619 | 0.26262 | 0.2642 | 0.001072 | 0.2556 | 0.26165 | 0.2651 | 0.0042462 | -0.0068 | -0.000975 | 0.002 | 0.0039685 |
| 20 | 0.2567 | 0.26151 | 0.2663 | 0.0037778 | 0.2559 | 0.26116 | 0.2654 | 0.0035126 | -0.0011 | -0.00035 | 0.0012 | 0.00069001 |
| 30 | 0.257 | 0.26143 | 0.2645 | 0.0028379 | 0.256 | 0.26105 | 0.2657 | 0.0032763 | -0.0066 | -0.00038 | 0.0067 | 0.0051555 |
| 50 | 0.2551 | 0.26254 | 0.2704 | 0.0044583 | 0.2548 | 0.26232 | 0.2717 | 0.0048716 | -0.0047 | -0.00022 | 0.0032 | 0.0025607 |
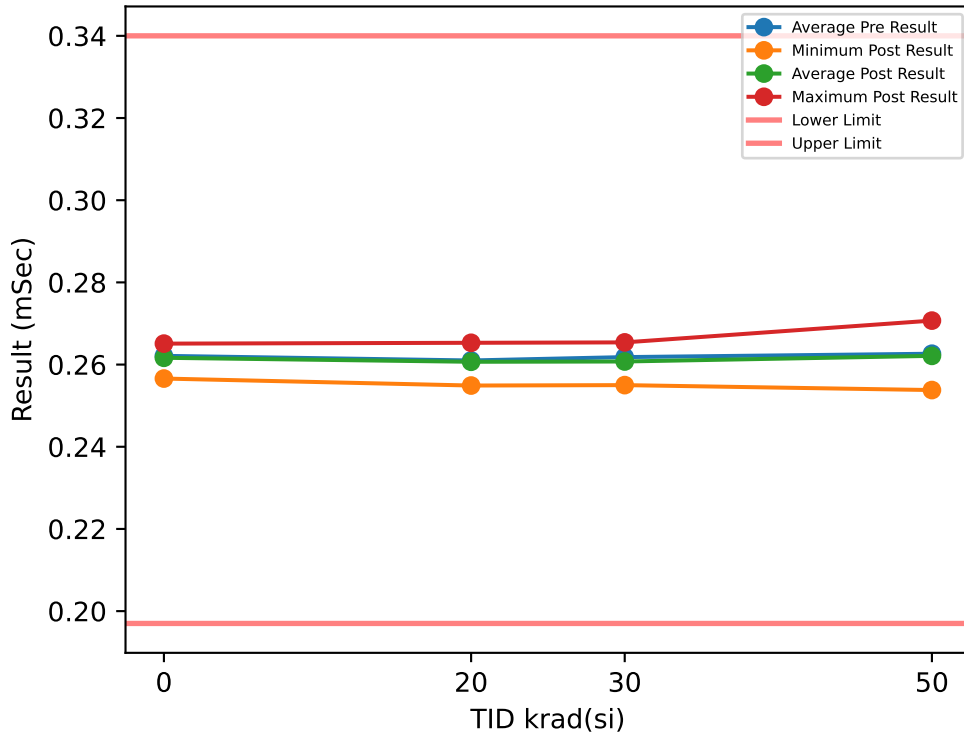
# Device Test: 18.39 REG_TIME_10KOHM(_DELAY|TIMING/SENSE3/7/14/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2656 | 0.264 | -0.0016 |
| 2 | 20 | Bias | 0.2653 | 0.2653 | 0 |
| 3 | 20 | Bias | 0.2639 | 0.2649 | 0.001 |
| 4 | 20 | Bias | 0.2645 | 0.2629 | -0.0016 |
| 5 | 20 | Bias | 0.2567 | 0.257 | 0.0003 |
| 6 | 20 | Unbiased | 0.2619 | 0.2608 | -0.0011 |
| 7 | 20 | Unbiased | 0.2625 | 0.2615 | -0.001 |
| 8 | 20 | Unbiased | 0.2557 | 0.2549 | -0.0008 |
| 9 | 20 | Unbiased | 0.2574 | 0.2567 | -0.0007 |
| 10 | 20 | Unbiased | 0.2565 | 0.2588 | 0.0023 |
| 11 | 30 | Bias | 0.2602 | 0.255 | -0.0052 |
| 12 | 30 | Bias | 0.2649 | 0.2602 | -0.0047 |
| 13 | 30 | Bias | 0.2576 | 0.2654 | 0.0078 |
| 14 | 30 | Bias | 0.2654 | 0.2579 | -0.0075 |
| 15 | 30 | Bias | 0.2644 | 0.2644 | 0 |
| 16 | 30 | Unbiased | 0.258 | 0.2619 | 0.0039 |
| 17 | 30 | Unbiased | 0.2628 | 0.2572 | -0.0056 |
| 18 | 30 | Unbiased | 0.2645 | 0.2624 | -0.0021 |
| 19 | 30 | Unbiased | 0.259 | 0.2647 | 0.0057 |
| 20 | 30 | Unbiased | 0.2614 | 0.2584 | -0.003 |
| 21 | 50 | Bias | 0.2647 | 0.2604 | -0.0043 |
| 22 | 50 | Bias | 0.2612 | 0.2645 | 0.0033 |
| 23 | 50 | Bias | 0.2584 | 0.2616 | 0.0032 |
| 24 | 50 | Bias | 0.2626 | 0.2579 | -0.0047 |
| 25 | 50 | Bias | 0.2714 | 0.2707 | -0.0007 |
| 26 | 50 | Unbiased | 0.259 | 0.2584 | -0.0006 |
| 27 | 50 | Unbiased | 0.2551 | 0.2538 | -0.0013 |
| 28 | 50 | Unbiased | 0.2675 | 0.2671 | -0.0004 |
| 29 | 50 | Unbiased | 0.2633 | 0.2633 | 0 |
| 30 | 50 | Unbiased | 0.2632 | 0.2635 | 0.0003 |
| 31 | 0 | Correlation | 0.2642 | 0.2651 | 0.0009 |
| 32 | 0 | Correlation | 0.263 | 0.263 | 0 |
| 33 | 0 | Correlation | 0.2609 | 0.2619 | 0.001 |
| 34 | 0 | Correlation | 0.2604 | 0.2566 | -0.0038 |

## Test Statistics (mSec)
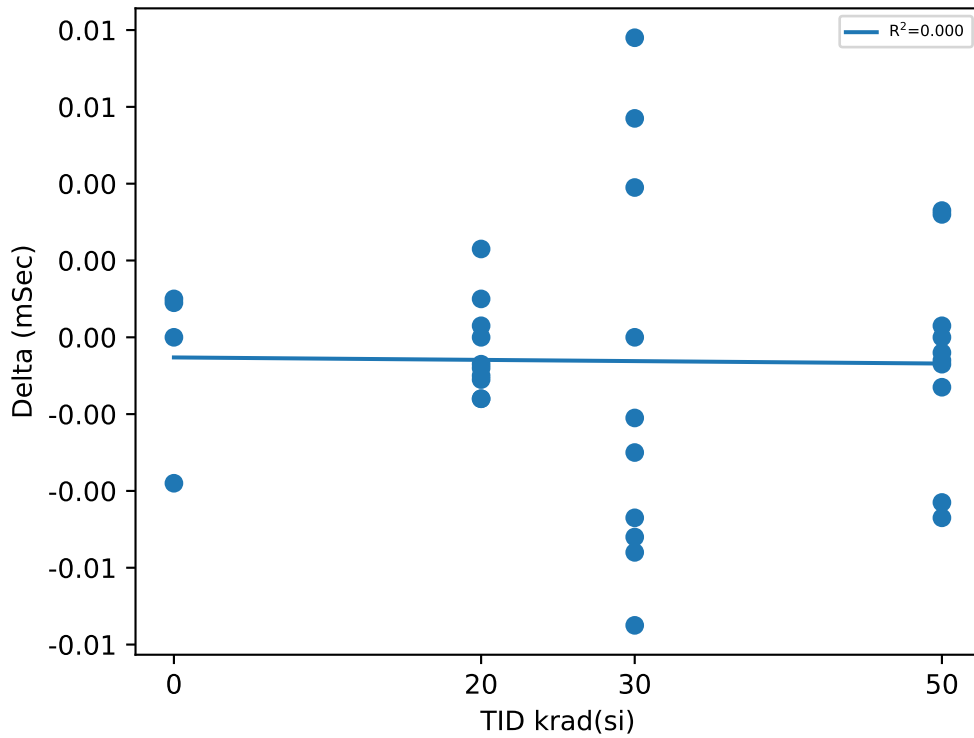
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2604 | 0.26212 | 0.2642 | 0.001784 | 0.2566 | 0.26165 | 0.2651 | 0.0036189 | -0.0038 | -0.000475 | 0.001 | 0.0022618 |
| 20 | 0.2557 | 0.261 | 0.2656 | 0.0039883 | 0.2549 | 0.26068 | 0.2653 | 0.0036835 | -0.0016 | -0.00032 | 0.0023 | 0.001239 |
| 30 | 0.2576 | 0.26182 | 0.2654 | 0.0029862 | 0.255 | 0.26075 | 0.2654 | 0.0035622 | -0.0075 | -0.00107 | 0.0078 | 0.0052413 |
| 50 | 0.2551 | 0.26264 | 0.2714 | 0.0046608 | 0.2538 | 0.26212 | 0.2707 | 0.0048474 | -0.0047 | -0.00052 | 0.0033 | 0.0026203 |
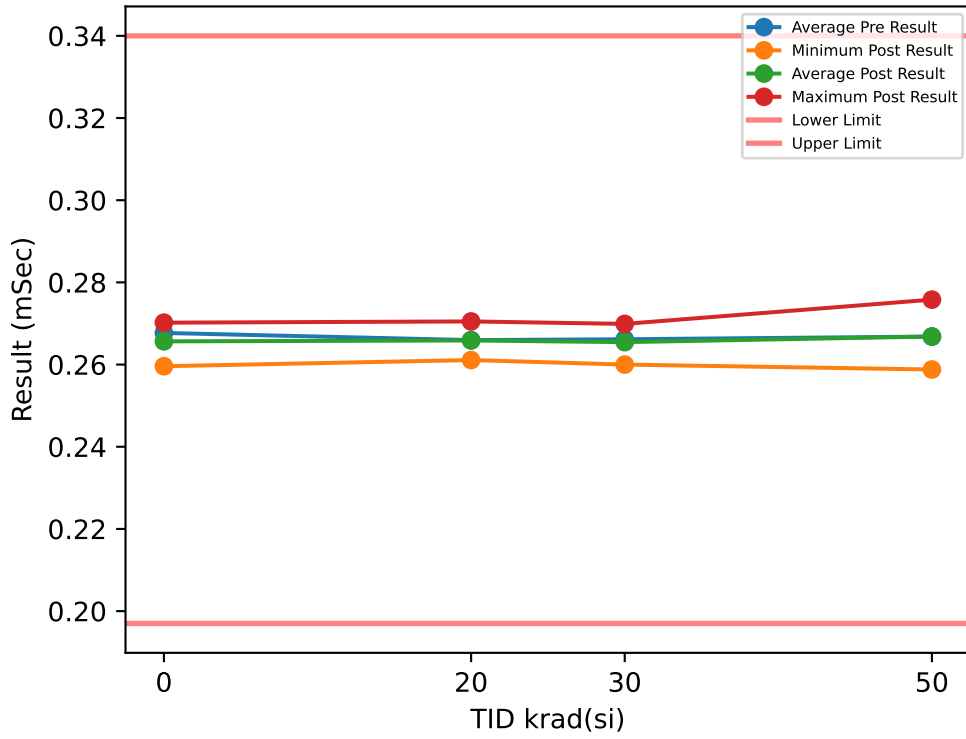
# Device Test: 18.4   REG_TIME_10KOHM(_DELAY|TIMING/SENSE4/1.6/3/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.2697 | 0.2691 | -0.0006 |
| 2 | 20 | Bias | 0.2714 | 0.2705 | -0.0009 |
| 3 | 20 | Bias | 0.2689 | 0.269 | 0.0001 |
| 4 | 20 | Bias | 0.2685 | 0.2681 | -0.0004 |
| 5 | 20 | Bias | 0.2616 | 0.2619 | 0.0003 |
| 6 | 20 | Unbiased | 0.2671 | 0.268 | 0.0009 |
| 7 | 20 | Unbiased | 0.2665 | 0.2676 | 0.0011 |
| 8 | 20 | Unbiased | 0.2608 | 0.2611 | 0.0003 |
| 9 | 20 | Unbiased | 0.2625 | 0.2617 | -0.0008 |
| 10 | 20 | Unbiased | 0.2625 | 0.2617 | -0.0008 |
| 11 | 30 | Bias | 0.2643 | 0.26 | -0.0043 |
| 12 | 30 | Bias | 0.2699 | 0.2634 | -0.0065 |
| 13 | 30 | Bias | 0.2626 | 0.2695 | 0.0069 |
| 14 | 30 | Bias | 0.2695 | 0.262 | -0.0075 |
| 15 | 30 | Bias | 0.2686 | 0.2685 | -0.0001 |
| 16 | 30 | Unbiased | 0.262 | 0.2681 | 0.0061 |
| 17 | 30 | Unbiased | 0.2669 | 0.2623 | -0.0046 |
| 18 | 30 | Unbiased | 0.2695 | 0.2676 | -0.0019 |
| 19 | 30 | Unbiased | 0.2619 | 0.2699 | 0.008 |
| 20 | 30 | Unbiased | 0.2664 | 0.2633 | -0.0031 |
| 21 | 50 | Bias | 0.2688 | 0.2655 | -0.0033 |
| 22 | 50 | Bias | 0.2672 | 0.2687 | 0.0015 |
| 23 | 50 | Bias | 0.2623 | 0.2657 | 0.0034 |
| 24 | 50 | Bias | 0.2666 | 0.262 | -0.0046 |
| 25 | 50 | Bias | 0.2744 | 0.2758 | 0.0014 |
| 26 | 50 | Unbiased | 0.2619 | 0.2625 | 0.0006 |
| 27 | 50 | Unbiased | 0.258 | 0.2588 | 0.0008 |
| 28 | 50 | Unbiased | 0.2724 | 0.2722 | -0.0002 |
| 29 | 50 | Unbiased | 0.2684 | 0.2695 | 0.0011 |
| 30 | 50 | Unbiased | 0.2681 | 0.2676 | -0.0005 |
| 31 | 0 | Correlation | 0.2703 | 0.2702 | -0.0001 |
| 32 | 0 | Correlation | 0.2681 | 0.266 | -0.0021 |
| 33 | 0 | Correlation | 0.2659 | 0.2668 | 0.0009 |
| 34 | 0 | Correlation | 0.2665 | 0.2596 | -0.0069 |

## Test Statistics (mSec)
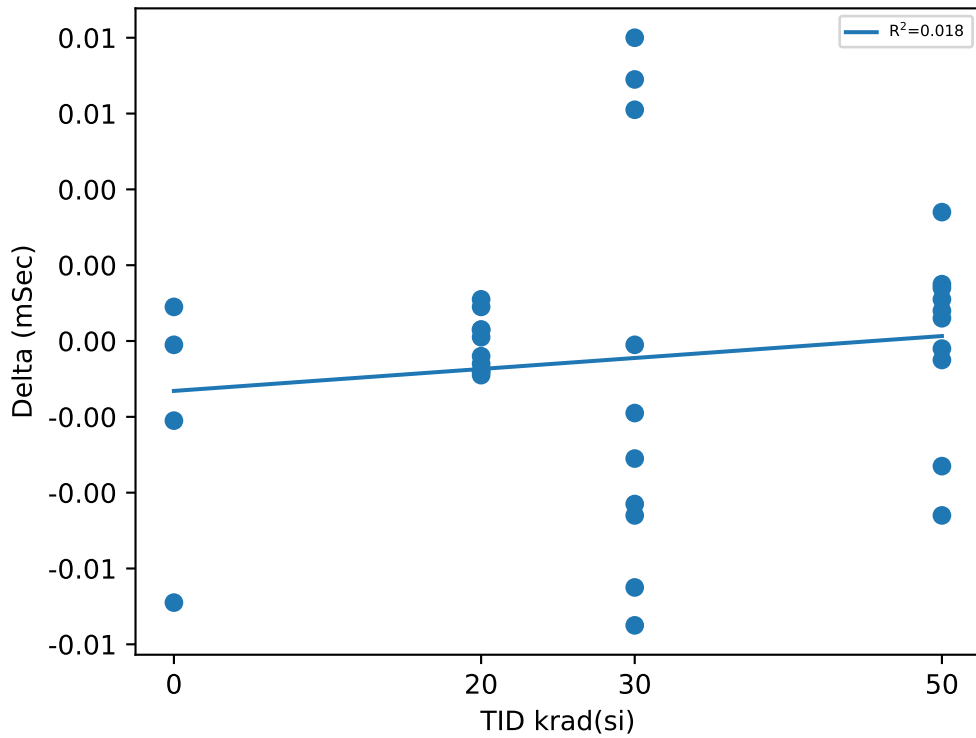
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.2659 | 0.2677 | 0.2703 | 0.0019664 | 0.2596 | 0.26565 | 0.2702 | 0.0044253 | -0.0069 | -0.00205 | 0.0009 | 0.0034655 |
| 20 | 0.2608 | 0.26595 | 0.2714 | 0.0037983 | 0.2611 | 0.26587 | 0.2705 | 0.0037633 | -0.0009 | -8e-05 | 0.0011 | 0.00072694 |
| 30 | 0.2619 | 0.26616 | 0.2699 | 0.0032394 | 0.26 | 0.26546 | 0.2699 | 0.0036133 | -0.0075 | -0.0007 | 0.008 | 0.0057281 |
| 50 | 0.258 | 0.26681 | 0.2744 | 0.0049359 | 0.2588 | 0.26683 | 0.2758 | 0.0050566 | -0.0046 | 2e-05 | 0.0034 | 0.0023645 |
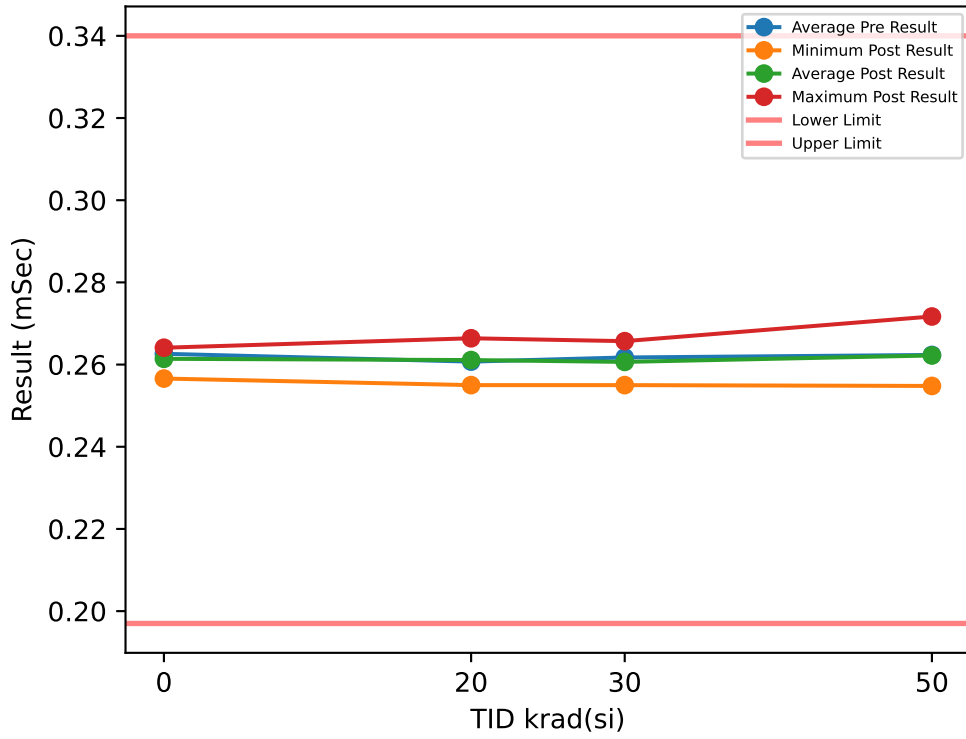
# Device Test: 18.40  REG_TIME_10KOHM(_DELAY|TIMING/SENSE4/7/14/0/10.5K/0/@REG_TIME_10KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 0.197, Upper Limit = 0.34 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 0.2646 | 0.264 | -0.0006 |
| 2 | 20 | Bias | 0.2653 | 0.2664 | 0.0011 |
| 3 | 20 | Bias | 0.2639 | 0.2649 | 0.001 |
| 4 | 20 | Bias | 0.2645 | 0.2629 | -0.0016 |
| 5 | 20 | Bias | 0.2557 | 0.257 | 0.0013 |
| 6 | 20 | Unbiased | 0.2619 | 0.2628 | 0.0009 |
| 7 | 20 | Unbiased | 0.2625 | 0.2635 | 0.001 |
| 8 | 20 | Unbiased | 0.2557 | 0.255 | -0.0007 |
| 9 | 20 | Unbiased | 0.2565 | 0.2577 | 0.0012 |
| 10 | 20 | Unbiased | 0.2566 | 0.2568 | 0.0002 |
| 11 | 30 | Bias | 0.2592 | 0.255 | -0.0042 |
| 12 | 30 | Bias | 0.264 | 0.2592 | -0.0048 |
| 13 | 30 | Bias | 0.2586 | 0.2634 | 0.0048 |
| 14 | 30 | Bias | 0.2644 | 0.2569 | -0.0075 |
| 15 | 30 | Bias | 0.2634 | 0.2654 | 0.002 |
| 16 | 30 | Unbiased | 0.258 | 0.2629 | 0.0049 |
| 17 | 30 | Unbiased | 0.2638 | 0.2572 | -0.0066 |
| 18 | 30 | Unbiased | 0.2655 | 0.2614 | -0.0041 |
| 19 | 30 | Unbiased | 0.258 | 0.2657 | 0.0077 |
| 20 | 30 | Unbiased | 0.2624 | 0.2594 | -0.003 |
| 21 | 50 | Bias | 0.2637 | 0.2624 | -0.0013 |
| 22 | 50 | Bias | 0.2602 | 0.2635 | 0.0033 |
| 23 | 50 | Bias | 0.2574 | 0.2616 | 0.0042 |
| 24 | 50 | Bias | 0.2636 | 0.2569 | -0.0067 |
| 25 | 50 | Bias | 0.2714 | 0.2717 | 0.0003 |
| 26 | 50 | Unbiased | 0.258 | 0.2564 | -0.0016 |
| 27 | 50 | Unbiased | 0.2541 | 0.2548 | 0.0007 |
| 28 | 50 | Unbiased | 0.2665 | 0.2681 | 0.0016 |
| 29 | 50 | Unbiased | 0.2643 | 0.2633 | -0.001 |
| 30 | 50 | Unbiased | 0.2642 | 0.2635 | -0.0007 |
| 31 | 0 | Correlation | 0.2642 | 0.2641 | -0.0001 |
| 32 | 0 | Correlation | 0.263 | 0.262 | -0.001 |
| 33 | 0 | Correlation | 0.2609 | 0.2629 | 0.002 |
| 34 | 0 | Correlation | 0.2624 | 0.2566 | -0.0058 |

## Test Statistics (mSec)
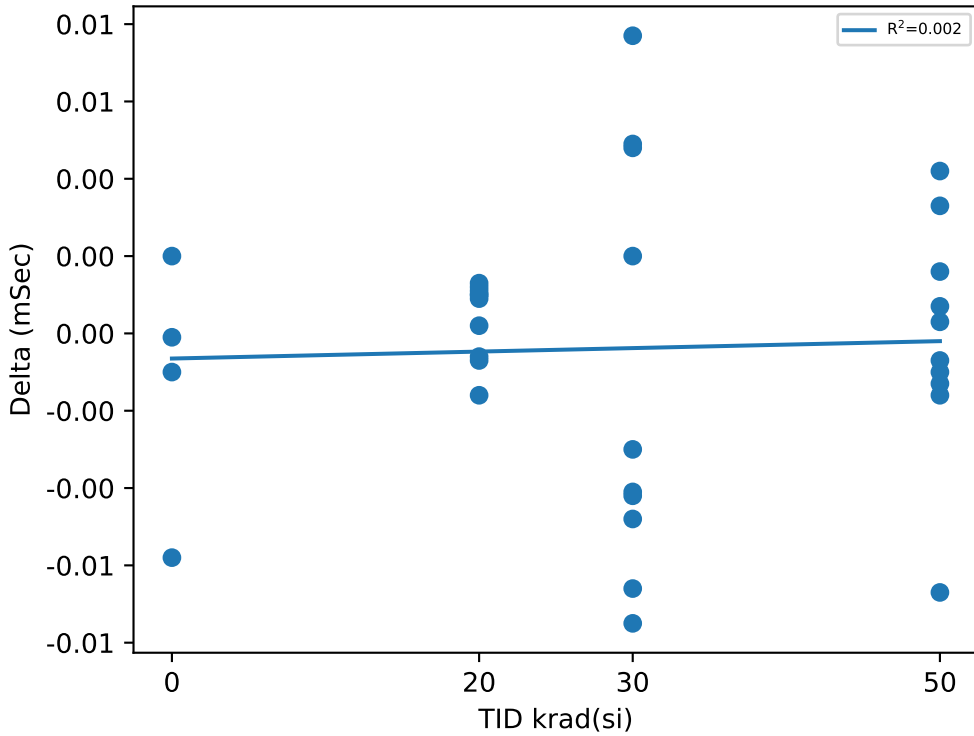
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2609 | 0.26262 | 0.2642 | 0.001372 | 0.2566 | 0.2614 | 0.2641 | 0.0033136 | -0.0058 | -0.001225 | 0.002 | 0.0032989 |
| 20 | 0.2557 | 0.26072 | 0.2653 | 0.0040849 | 0.255 | 0.2611 | 0.2664 | 0.0040401 | -0.0016 | 0.00038 | 0.0013 | 0.0010086 |
| 30 | 0.258 | 0.26173 | 0.2655 | 0.0029447 | 0.255 | 0.26065 | 0.2657 | 0.0036939 | -0.0075 | -0.00108 | 0.0077 | 0.005426 |
| 50 | 0.2541 | 0.26234 | 0.2714 | 0.0050094 | 0.2548 | 0.26222 | 0.2717 | 0.0052338 | -0.0067 | -0.00012 | 0.0042 | 0.0030213 |
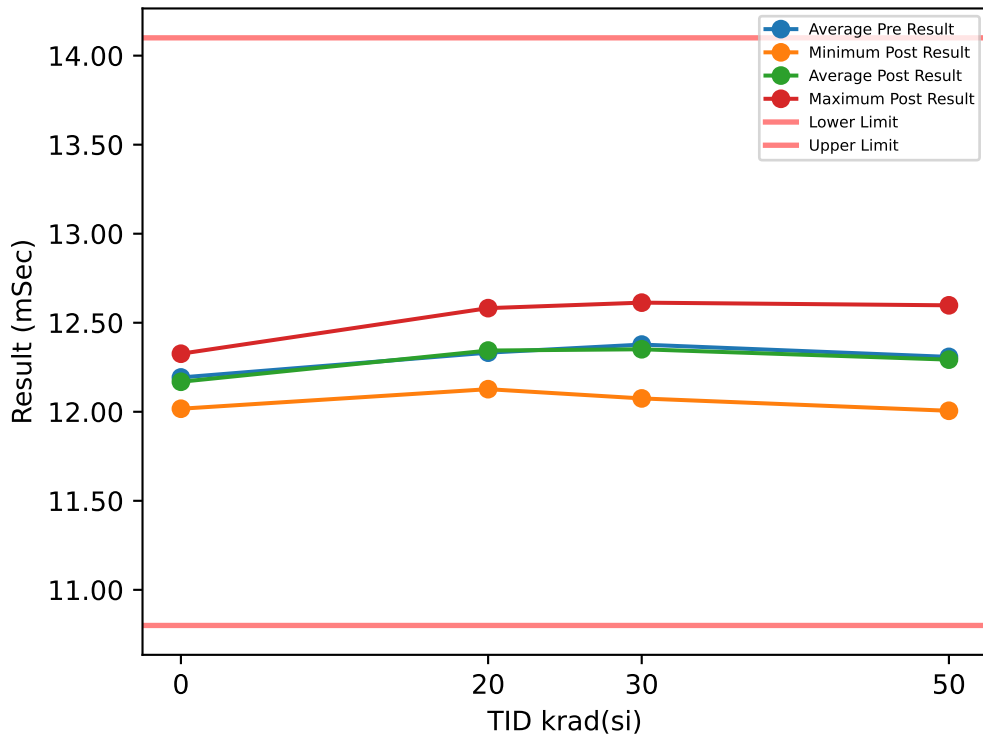
# Device Test: 18.41  REG_TIME_500KOHM(_DELAY|TIMING/SENSE1/7/14/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.557 | 12.441 | -0.1159 |
| 2 | 20 | Bias | 12.684 | 12.582 | -0.1024 |
| 3 | 20 | Bias | 12.586 | 12.488 | -0.0977 |
| 4 | 20 | Bias | 12.209 | 12.341 | 0.132 |
| 5 | 20 | Bias | 12.203 | 12.41 | 0.2071 |
| 6 | 20 | Unbiased | 12.258 | 12.127 | -0.1309 |
| 7 | 20 | Unbiased | 12.108 | 12.28 | 0.1719 |
| 8 | 20 | Unbiased | 12.193 | 12.204 | 0.0107 |
| 9 | 20 | Unbiased | 12.118 | 12.128 | 0.0105 |
| 10 | 20 | Unbiased | 12.403 | 12.437 | 0.0335 |
| 11 | 30 | Bias | 12.143 | 12.33 | 0.1867 |
| 12 | 30 | Bias | 12.195 | 12.284 | 0.0888 |
| 13 | 30 | Bias | 12.428 | 12.365 | -0.0638 |
| 14 | 30 | Bias | 12.651 | 12.332 | -0.3193 |
| 15 | 30 | Bias | 12.428 | 12.469 | 0.0405 |
| 16 | 30 | Unbiased | 12.298 | 12.222 | -0.0759 |
| 17 | 30 | Unbiased | 12.591 | 12.075 | -0.5162 |
| 18 | 30 | Unbiased | 12.521 | 12.613 | 0.092 |
| 19 | 30 | Unbiased | 12.188 | 12.431 | 0.2429 |
| 20 | 30 | Unbiased | 12.33 | 12.39 | 0.0604 |
| 21 | 50 | Bias | 12.368 | 12.145 | -0.2234 |
| 22 | 50 | Bias | 12.123 | 12.317 | 0.1942 |
| 23 | 50 | Bias | 12.196 | 12.006 | -0.19 |
| 24 | 50 | Bias | 12.612 | 12.293 | -0.3192 |
| 25 | 50 | Bias | 12.429 | 12.333 | -0.0957 |
| 26 | 50 | Unbiased | 12.119 | 12.296 | 0.1774 |
| 27 | 50 | Unbiased | 12.198 | 12.213 | 0.0155 |
| 28 | 50 | Unbiased | 12.475 | 12.598 | 0.1232 |
| 29 | 50 | Unbiased | 12.376 | 12.378 | 0.0019 |
| 30 | 50 | Unbiased | 12.187 | 12.35 | 0.1621 |
| 31 | 0 | Correlation | 12.152 | 12.017 | -0.1351 |
| 32 | 0 | Correlation | 12.274 | 12.255 | -0.019 |
| 33 | 0 | Correlation | 12.22 | 12.076 | -0.1436 |
| 34 | 0 | Correlation | 12.125 | 12.326 | 0.2008 |

## Test Statistics (mSec)
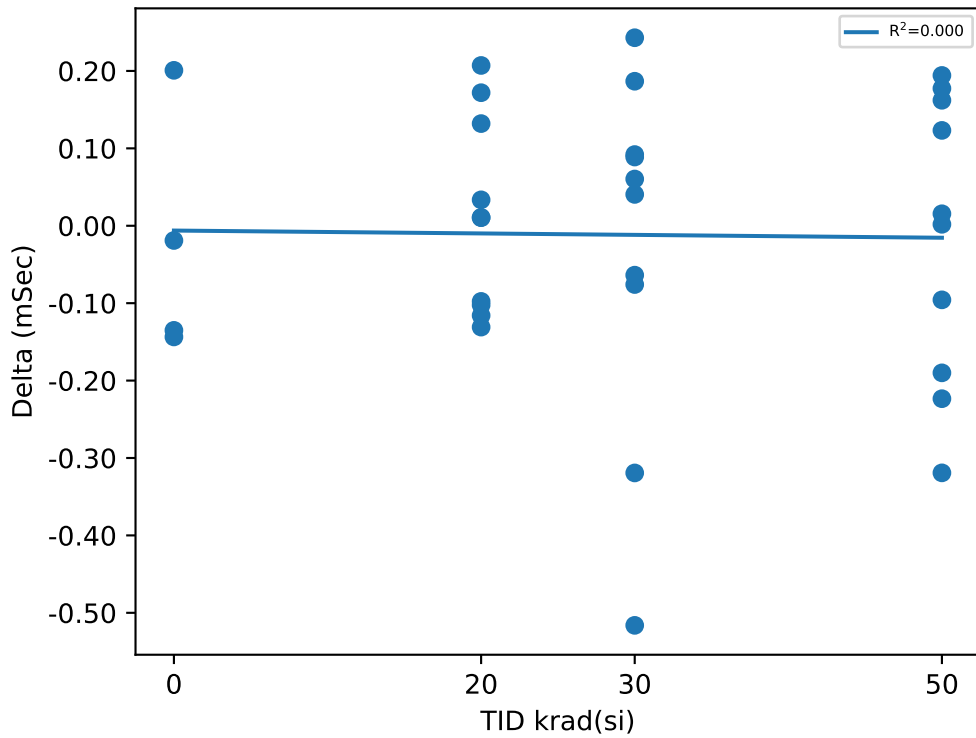
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.125 | 12.193 | 12.274 | 0.067183 | 12.017 | 12.169 | 12.326 | 0.14575 | -0.1436 | -0.024225 | 0.2008 | 0.16042 |
| 20 | 12.108 | 12.332 | 12.684 | 0.20997 | 12.127 | 12.344 | 12.582 | 0.15533 | -0.1309 | 0.01188 | 0.2071 | 0.1249 |
| 30 | 12.143 | 12.377 | 12.651 | 0.17602 | 12.075 | 12.351 | 12.613 | 0.14478 | -0.5162 | -0.02639 | 0.2429 | 0.23256 |
| 50 | 12.119 | 12.308 | 12.612 | 0.16743 | 12.006 | 12.293 | 12.598 | 0.15511 | -0.3192 | -0.0154 | 0.1942 | 0.18426 |
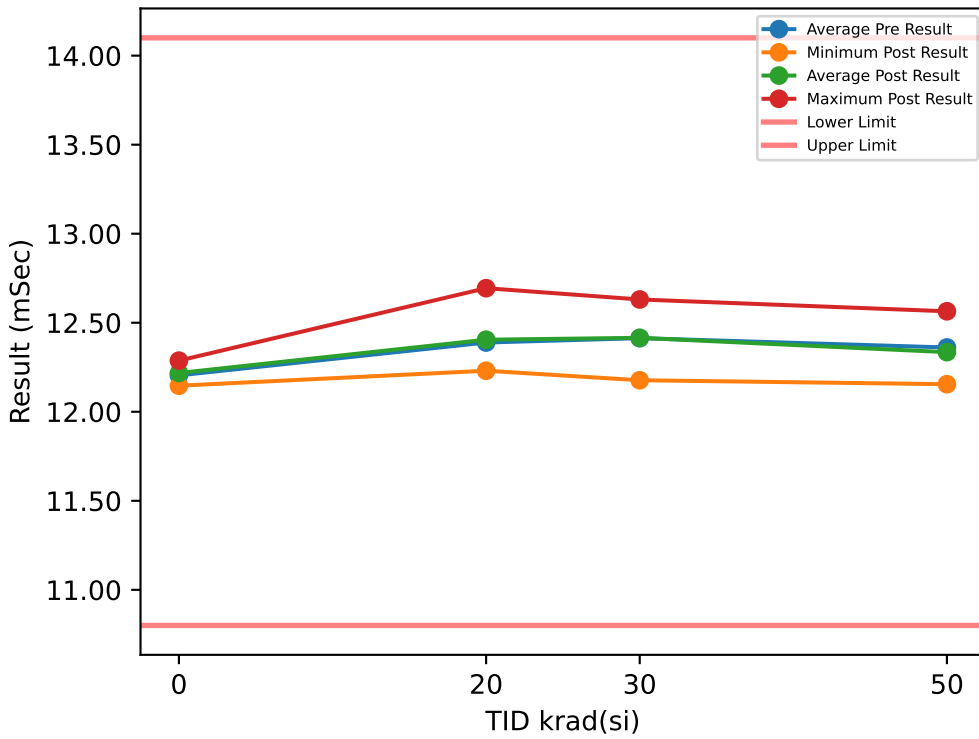
# Device Test: 18.42  REG_TIME_500KOHM(_DELAY|TIMING/SENSE2/7/14/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.582 | 12.58 | -0.0025 |
| 2 | 20 | Bias | 12.668 | 12.694 | 0.0265 |
| 3 | 20 | Bias | 12.532 | 12.578 | 0.0462 |
| 4 | 20 | Bias | 12.381 | 12.263 | -0.1174 |
| 5 | 20 | Bias | 12.377 | 12.404 | 0.0267 |
| 6 | 20 | Unbiased | 12.206 | 12.263 | 0.0563 |
| 7 | 20 | Unbiased | 12.185 | 12.23 | 0.0455 |
| 8 | 20 | Unbiased | 12.365 | 12.334 | -0.0305 |
| 9 | 20 | Unbiased | 12.27 | 12.259 | -0.0105 |
| 10 | 20 | Unbiased | 12.322 | 12.441 | 0.1189 |
| 11 | 30 | Bias | 12.233 | 12.339 | 0.1065 |
| 12 | 30 | Bias | 12.31 | 12.255 | -0.0548 |
| 13 | 30 | Bias | 12.596 | 12.327 | -0.2692 |
| 14 | 30 | Bias | 12.61 | 12.493 | -0.1166 |
| 15 | 30 | Bias | 12.413 | 12.558 | 0.1454 |
| 16 | 30 | Unbiased | 12.267 | 12.331 | 0.0644 |
| 17 | 30 | Unbiased | 12.603 | 12.177 | -0.4258 |
| 18 | 30 | Unbiased | 12.523 | 12.631 | 0.1078 |
| 19 | 30 | Unbiased | 12.309 | 12.614 | 0.305 |
| 20 | 30 | Unbiased | 12.271 | 12.427 | 0.1559 |
| 21 | 50 | Bias | 12.374 | 12.237 | -0.1368 |
| 22 | 50 | Bias | 12.107 | 12.3 | 0.1927 |
| 23 | 50 | Bias | 12.347 | 12.155 | -0.1924 |
| 24 | 50 | Bias | 12.611 | 12.29 | -0.3204 |
| 25 | 50 | Bias | 12.362 | 12.441 | 0.0788 |
| 26 | 50 | Unbiased | 12.254 | 12.283 | 0.029 |
| 27 | 50 | Unbiased | 12.324 | 12.233 | -0.0915 |
| 28 | 50 | Unbiased | 12.589 | 12.564 | -0.0249 |
| 29 | 50 | Unbiased | 12.349 | 12.489 | 0.1402 |
| 30 | 50 | Unbiased | 12.293 | 12.355 | 0.0625 |
| 31 | 0 | Correlation | 12.168 | 12.146 | -0.022 |
| 32 | 0 | Correlation | 12.219 | 12.198 | -0.0209 |
| 33 | 0 | Correlation | 12.153 | 12.239 | 0.0859 |
| 34 | 0 | Correlation | 12.278 | 12.287 | 0.0096 |

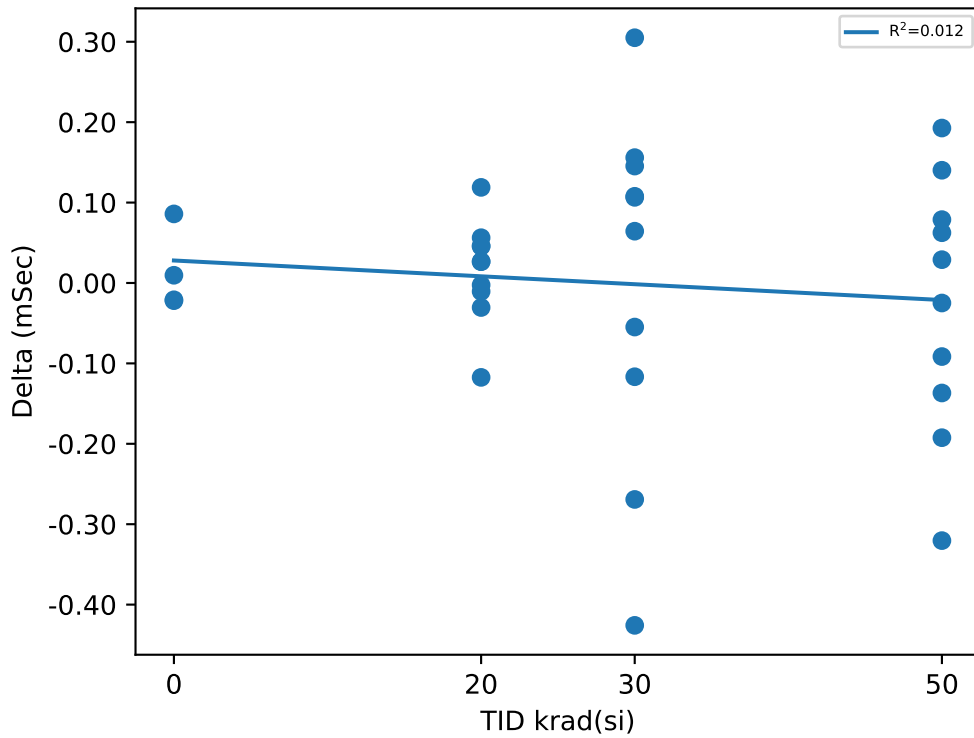## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.153 | 12.205 | 12.278 | 0.056279 | 12.146 | 12.218 | 12.287 | 0.059855 | -0.022 | 0.01315 | 0.0859 | 0.050663 |
| 20 | 12.185 | 12.389 | 12.668 | 0.15983 | 12.23 | 12.405 | 12.694 | 0.16415 | -0.1174 | 0.01592 | 0.1189 | 0.062558 |
| 30 | 12.233 | 12.413 | 12.61 | 0.15486 | 12.177 | 12.415 | 12.631 | 0.15479 | -0.4258 | 0.00186 | 0.305 | 0.22008 |
| 50 | 12.107 | 12.361 | 12.611 | 0.14793 | 12.155 | 12.335 | 12.564 | 0.12756 | -0.3204 | -0.02628 | 0.1927 | 0.15924 |
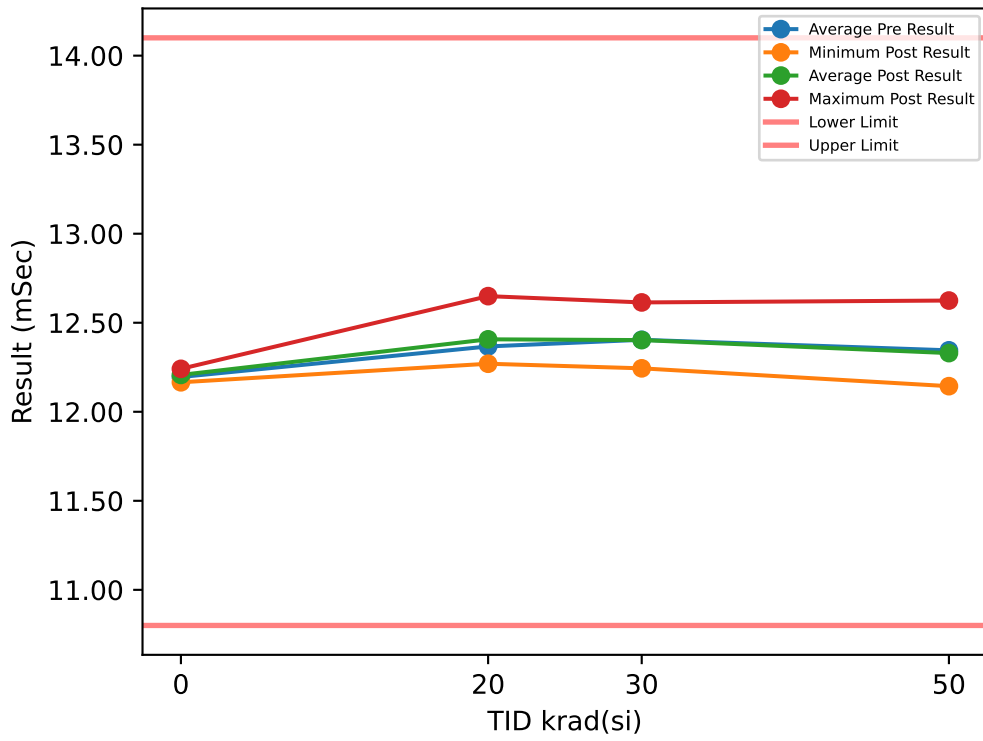
# Device Test: 18.43  REG_TIME_500KOHM(_DELAY|TIMING/SENSE3/7/14/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.561 | 12.538 | -0.0233 |
| 2 | 20 | Bias | 12.641 | 12.649 | 0.008 |
| 3 | 20 | Bias | 12.518 | 12.622 | 0.1041 |
| 4 | 20 | Bias | 12.326 | 12.328 | 0.002 |
| 5 | 20 | Bias | 12.308 | 12.333 | 0.0246 |
| 6 | 20 | Unbiased | 12.25 | 12.286 | 0.036 |
| 7 | 20 | Unbiased | 12.183 | 12.293 | 0.1102 |
| 8 | 20 | Unbiased | 12.315 | 12.27 | -0.0456 |
| 9 | 20 | Unbiased | 12.199 | 12.303 | 0.1043 |
| 10 | 20 | Unbiased | 12.367 | 12.447 | 0.08 |
| 11 | 30 | Bias | 12.226 | 12.266 | 0.0405 |
| 12 | 30 | Bias | 12.29 | 12.296 | 0.0055 |
| 13 | 30 | Bias | 12.595 | 12.323 | -0.2722 |
| 14 | 30 | Bias | 12.582 | 12.432 | -0.1507 |
| 15 | 30 | Bias | 12.411 | 12.533 | 0.1223 |
| 16 | 30 | Unbiased | 12.312 | 12.338 | 0.0255 |
| 17 | 30 | Unbiased | 12.586 | 12.244 | -0.3418 |
| 18 | 30 | Unbiased | 12.494 | 12.614 | 0.1203 |
| 19 | 30 | Unbiased | 12.266 | 12.595 | 0.3286 |
| 20 | 30 | Unbiased | 12.28 | 12.386 | 0.1066 |
| 21 | 50 | Bias | 12.347 | 12.271 | -0.0759 |
| 22 | 50 | Bias | 12.077 | 12.267 | 0.1897 |
| 23 | 50 | Bias | 12.345 | 12.144 | -0.2014 |
| 24 | 50 | Bias | 12.583 | 12.258 | -0.3246 |
| 25 | 50 | Bias | 12.417 | 12.488 | 0.0712 |
| 26 | 50 | Unbiased | 12.211 | 12.24 | 0.0294 |
| 27 | 50 | Unbiased | 12.287 | 12.217 | -0.0702 |
| 28 | 50 | Unbiased | 12.554 | 12.625 | 0.0709 |
| 29 | 50 | Unbiased | 12.35 | 12.449 | 0.0998 |
| 30 | 50 | Unbiased | 12.282 | 12.336 | 0.0548 |
| 31 | 0 | Correlation | 12.108 | 12.166 | 0.0571 |
| 32 | 0 | Correlation | 12.254 | 12.241 | -0.0129 |
| 33 | 0 | Correlation | 12.204 | 12.182 | -0.0218 |
| 34 | 0 | Correlation | 12.215 | 12.239 | 0.0244 |

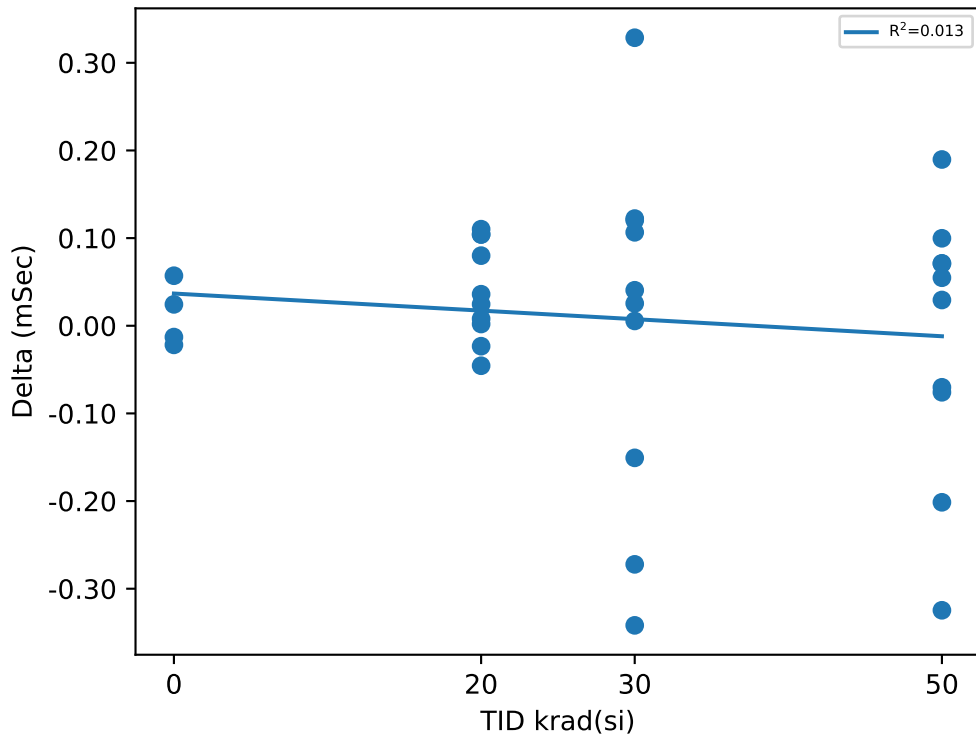## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.108 | 12.195 | 12.254 | 0.061735 | 12.166 | 12.207 | 12.241 | 0.038804 | -0.0218 | 0.0117 | 0.0571 | 0.036285 |
| 20 | 12.183 | 12.367 | 12.641 | 0.15608 | 12.27 | 12.407 | 12.649 | 0.14628 | -0.0456 | 0.04003 | 0.1102 | 0.056595 |
| 30 | 12.226 | 12.404 | 12.595 | 0.14803 | 12.244 | 12.403 | 12.614 | 0.13561 | -0.3418 | -0.00154 | 0.3286 | 0.2013 |
| 50 | 12.077 | 12.345 | 12.583 | 0.15002 | 12.144 | 12.33 | 12.625 | 0.14697 | -0.3246 | -0.01563 | 0.1897 | 0.15423 |
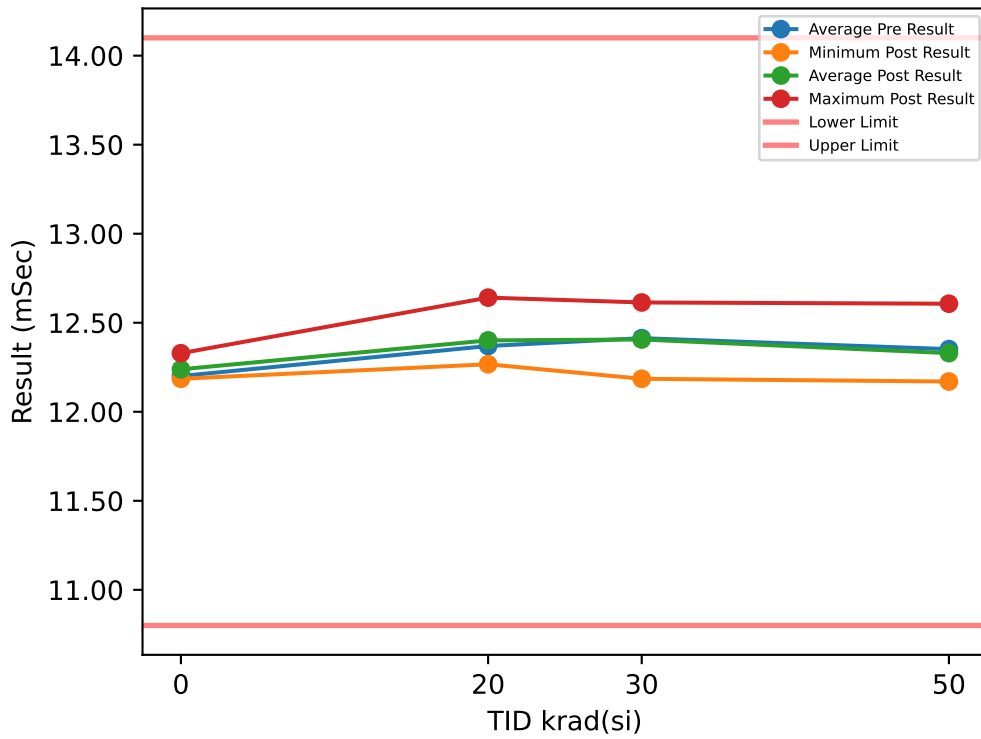
# Device Test: 18.44  REG_TIME_500KOHM(_DELAY|TIMING/SENSE4/7/14/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.531 | 12.6 | 0.0693 |
| 2 | 20 | Bias | 12.613 | 12.641 | 0.028 |
| 3 | 20 | Bias | 12.59 | 12.591 | 0.0005 |
| 4 | 20 | Bias | 12.307 | 12.322 | 0.0144 |
| 5 | 20 | Bias | 12.304 | 12.364 | 0.0597 |
| 6 | 20 | Unbiased | 12.249 | 12.268 | 0.0193 |
| 7 | 20 | Unbiased | 12.213 | 12.267 | 0.0538 |
| 8 | 20 | Unbiased | 12.296 | 12.269 | -0.0274 |
| 9 | 20 | Unbiased | 12.225 | 12.284 | 0.0593 |
| 10 | 20 | Unbiased | 12.365 | 12.403 | 0.0389 |
| 11 | 30 | Bias | 12.277 | 12.281 | 0.0045 |
| 12 | 30 | Bias | 12.267 | 12.303 | 0.0353 |
| 13 | 30 | Bias | 12.565 | 12.294 | -0.2708 |
| 14 | 30 | Bias | 12.646 | 12.476 | -0.1702 |
| 15 | 30 | Bias | 12.398 | 12.573 | 0.1747 |
| 16 | 30 | Unbiased | 12.288 | 12.371 | 0.0831 |
| 17 | 30 | Unbiased | 12.559 | 12.185 | -0.3735 |
| 18 | 30 | Unbiased | 12.542 | 12.614 | 0.0721 |
| 19 | 30 | Unbiased | 12.28 | 12.568 | 0.2877 |
| 20 | 30 | Unbiased | 12.312 | 12.394 | 0.0824 |
| 21 | 50 | Bias | 12.355 | 12.278 | -0.0767 |
| 22 | 50 | Bias | 12.151 | 12.247 | 0.0956 |
| 23 | 50 | Bias | 12.318 | 12.17 | -0.1478 |
| 24 | 50 | Bias | 12.57 | 12.235 | -0.3354 |
| 25 | 50 | Bias | 12.433 | 12.464 | 0.031 |
| 26 | 50 | Unbiased | 12.286 | 12.304 | 0.0184 |
| 27 | 50 | Unbiased | 12.253 | 12.176 | -0.0773 |
| 28 | 50 | Unbiased | 12.606 | 12.607 | 0.0007 |
| 29 | 50 | Unbiased | 12.3 | 12.464 | 0.1648 |
| 30 | 50 | Unbiased | 12.246 | 12.348 | 0.1022 |
| 31 | 0 | Correlation | 12.103 | 12.188 | 0.0844 |
| 32 | 0 | Correlation | 12.251 | 12.252 | 0.0008 |
| 33 | 0 | Correlation | 12.194 | 12.185 | -0.0091 |
| 34 | 0 | Correlation | 12.254 | 12.329 | 0.0745 |

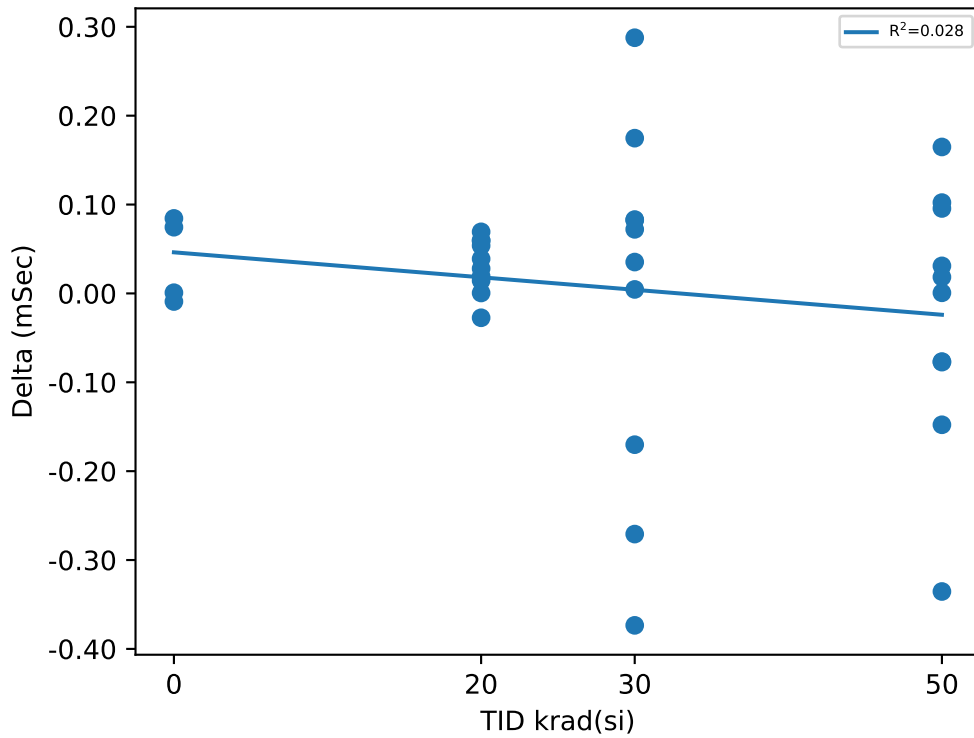## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.103 | 12.201 | 12.254 | 0.070571 | 12.185 | 12.239 | 12.329 | 0.067713 | -0.0091 | 0.03765 | 0.0844 | 0.048604 |
| 20 | 12.213 | 12.369 | 12.613 | 0.15182 | 12.267 | 12.401 | 12.641 | 0.15189 | -0.0274 | 0.03158 | 0.0693 | 0.03061 |
| 30 | 12.267 | 12.413 | 12.646 | 0.14866 | 12.185 | 12.406 | 12.614 | 0.14564 | -0.3735 | -0.00747 | 0.2877 | 0.20404 |
| 50 | 12.151 | 12.352 | 12.606 | 0.14475 | 12.17 | 12.329 | 12.607 | 0.14213 | -0.3354 | -0.02245 | 0.1648 | 0.14499 |
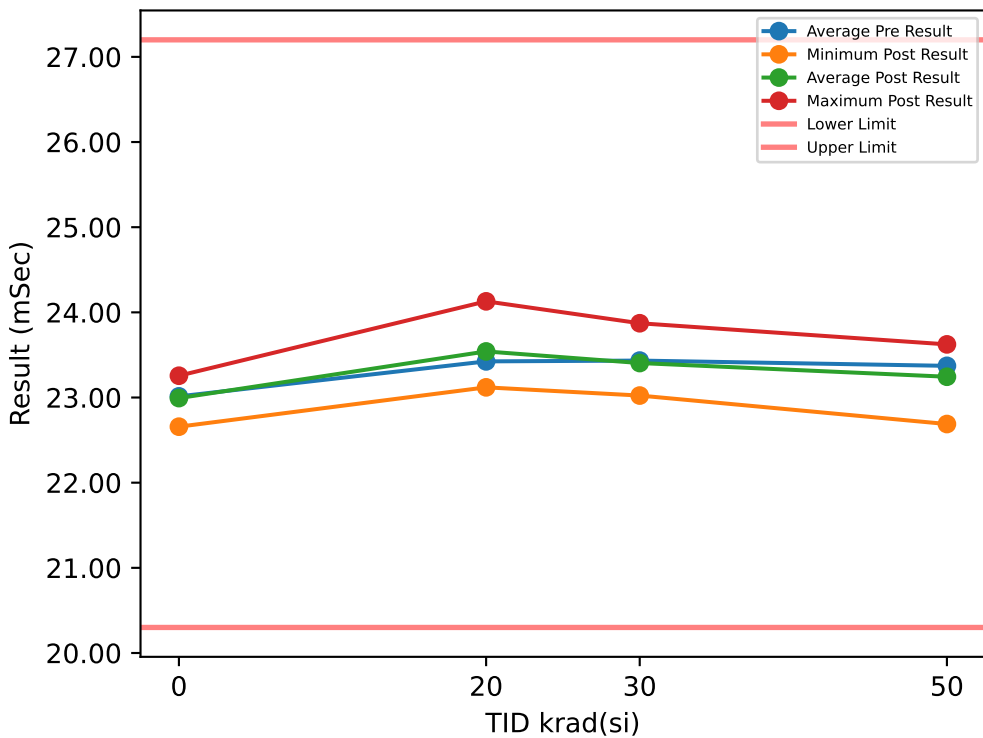
# Device Test: 18.45  REG_TIME_1MOHM(_DELAY|TIMING/SENSE1/7/14/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 23.512 | 23.575 | 0.063 |
| 2 | 20 | Bias | 24.059 | 24.129 | 0.0704 |
| 3 | 20 | Bias | 23.591 | 24.048 | 0.4565 |
| 4 | 20 | Bias | 23.147 | 23.323 | 0.1764 |
| 5 | 20 | Bias | 23.591 | 23.704 | 0.113 |
| 6 | 20 | Unbiased | 23.113 | 23.151 | 0.0376 |
| 7 | 20 | Unbiased | 23.152 | 23.225 | 0.0729 |
| 8 | 20 | Unbiased | 23.386 | 23.409 | 0.0233 |
| 9 | 20 | Unbiased | 23.374 | 23.119 | -0.2541 |
| 10 | 20 | Unbiased | 23.319 | 23.728 | 0.4093 |
| 11 | 30 | Bias | 23.343 | 23.577 | 0.2339 |
| 12 | 30 | Bias | 22.978 | 23.032 | 0.0536 |
| 13 | 30 | Bias | 23.786 | 23.036 | -0.7499 |
| 14 | 30 | Bias | 23.945 | 23.872 | -0.0724 |
| 15 | 30 | Bias | 23.426 | 23.655 | 0.2286 |
| 16 | 30 | Unbiased | 23.42 | 23.031 | -0.3888 |
| 17 | 30 | Unbiased | 23.678 | 23.023 | -0.655 |
| 18 | 30 | Unbiased | 23.458 | 23.711 | 0.2532 |
| 19 | 30 | Unbiased | 23.197 | 23.718 | 0.5217 |
| 20 | 30 | Unbiased | 23.108 | 23.394 | 0.2863 |
| 21 | 50 | Bias | 23.151 | 23 | -0.151 |
| 22 | 50 | Bias | 22.958 | 23.024 | 0.0664 |
| 23 | 50 | Bias | 23.525 | 22.689 | -0.8363 |
| 24 | 50 | Bias | 24 | 23.132 | -0.8684 |
| 25 | 50 | Bias | 23.113 | 23.433 | 0.3204 |
| 26 | 50 | Unbiased | 23.127 | 23.239 | 0.1118 |
| 27 | 50 | Unbiased | 23.54 | 23.337 | -0.2032 |
| 28 | 50 | Unbiased | 23.926 | 23.624 | -0.3023 |
| 29 | 50 | Unbiased | 23.107 | 23.509 | 0.4018 |
| 30 | 50 | Unbiased | 23.271 | 23.452 | 0.1808 |
| 31 | 0 | Correlation | 22.87 | 22.657 | -0.2126 |
| 32 | 0 | Correlation | 23.135 | 22.929 | -0.206 |
| 33 | 0 | Correlation | 22.869 | 23.131 | 0.2625 |
| 34 | 0 | Correlation | 23.18 | 23.256 | 0.0755 |

## Test Statistics (mSec)
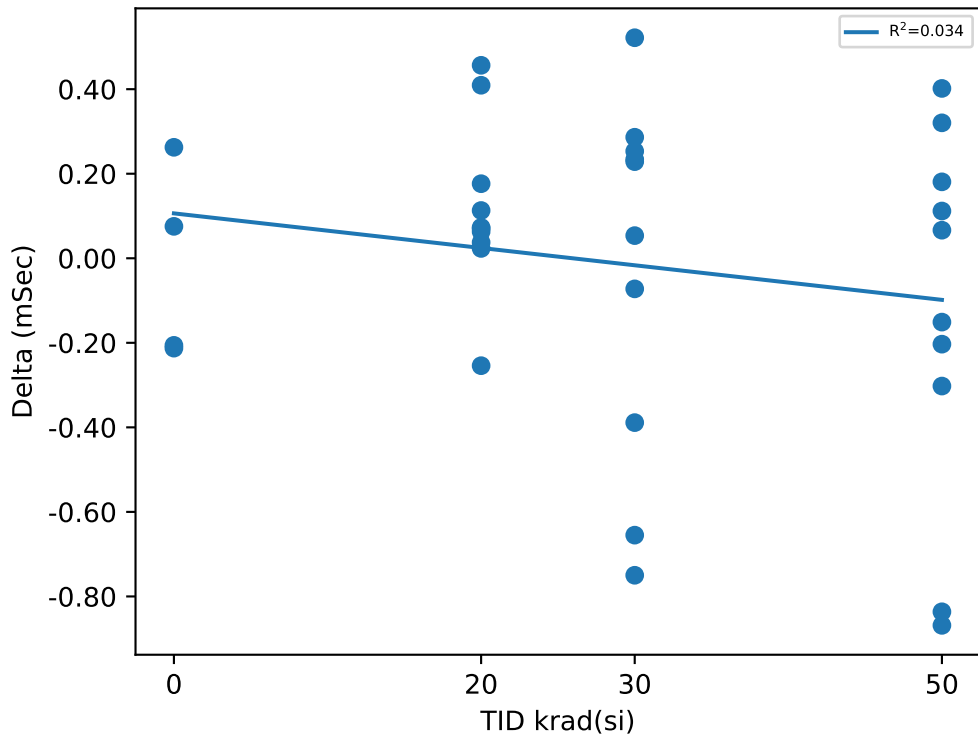
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 22.869 | 23.013 | 23.18 | 0.16749 | 22.657 | 22.993 | 23.256 | 0.26131 | -0.2126 | -0.02015 | 0.2625 | 0.23139 |
| 20 | 23.113 | 23.424 | 24.059 | 0.2846 | 23.119 | 23.541 | 24.129 | 0.35903 | -0.2541 | 0.11683 | 0.4565 | 0.20113 |
| 30 | 22.978 | 23.434 | 23.945 | 0.30247 | 23.023 | 23.405 | 23.872 | 0.34377 | -0.7499 | -0.02888 | 0.5217 | 0.43044 |
| 50 | 22.958 | 23.372 | 24 | 0.36228 | 22.689 | 23.244 | 23.624 | 0.28492 | -0.8684 | -0.128 | 0.4018 | 0.44207 |
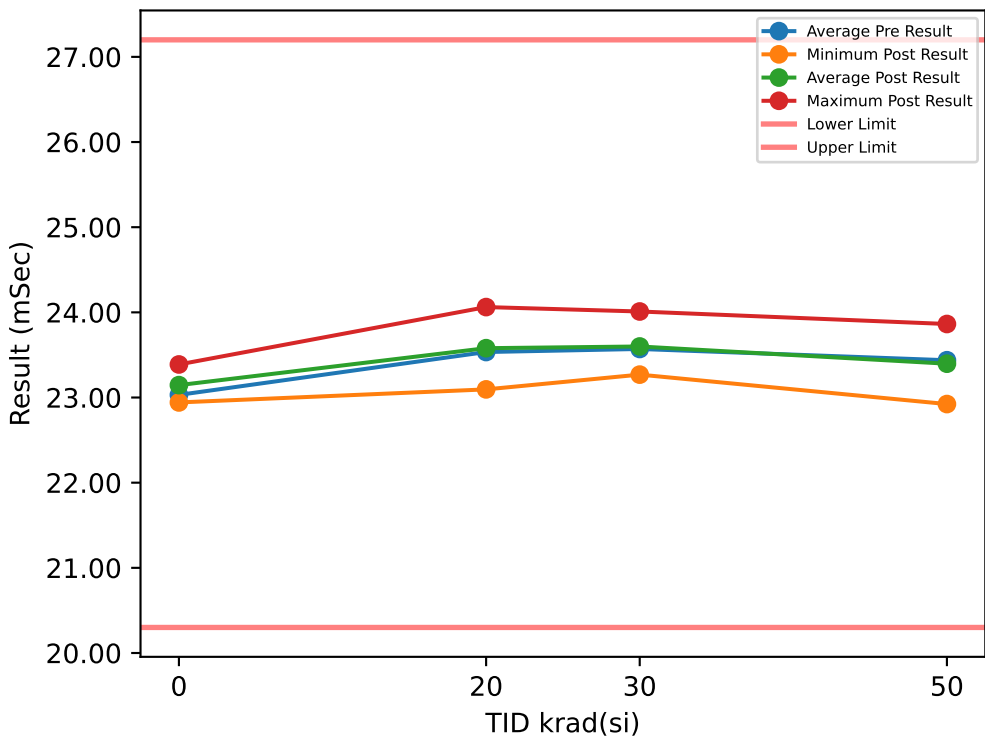
# Device Test: 18.46  REG_TIME_1MOHM(_DELAY|TIMING/SENSE2/7/14/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

## TID vs Post - Pre Exposure Delta

$R^2=0.027$

## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.824 | 23.833 | 0.009 |
| 2 | 20 | Bias | 23.949 | 24.059 | 0.1102 |
| 3 | 20 | Bias | 23.924 | 24.062 | 0.1383 |
| 4 | 20 | Bias | 23.276 | 23.252 | -0.0246 |
| 5 | 20 | Bias | 23.523 | 23.627 | 0.1033 |
| 6 | 20 | Unbiased | 23.109 | 23.096 | -0.0138 |
| 7 | 20 | Unbiased | 23.183 | 23.246 | 0.0624 |
| 8 | 20 | Unbiased | 23.639 | 23.584 | -0.055 |
| 9 | 20 | Unbiased | 23.374 | 23.416 | 0.042 |
| 10 | 20 | Unbiased | 23.54 | 23.62 | 0.0797 |
| 11 | 30 | Bias | 23.292 | 23.454 | 0.1616 |
| 12 | 30 | Bias | 23.315 | 23.311 | -0.0036 |
| 13 | 30 | Bias | 23.94 | 23.358 | -0.5814 |
| 14 | 30 | Bias | 24.004 | 23.883 | -0.1209 |
| 15 | 30 | Bias | 23.331 | 23.894 | 0.5636 |
| 16 | 30 | Unbiased | 23.294 | 23.334 | 0.04 |
| 17 | 30 | Unbiased | 24.019 | 23.269 | -0.7505 |
| 18 | 30 | Unbiased | 23.725 | 23.852 | 0.1264 |
| 19 | 30 | Unbiased | 23.397 | 24.01 | 0.6136 |
| 20 | 30 | Unbiased | 23.383 | 23.628 | 0.2446 |
| 21 | 50 | Bias | 23.318 | 23.24 | -0.0786 |
| 22 | 50 | Bias | 22.882 | 23.262 | 0.38 |
| 23 | 50 | Bias | 23.436 | 22.923 | -0.513 |
| 24 | 50 | Bias | 23.989 | 23.285 | -0.7036 |
| 25 | 50 | Bias | 23.262 | 23.36 | 0.0985 |
| 26 | 50 | Unbiased | 23.425 | 23.509 | 0.0836 |
| 27 | 50 | Unbiased | 23.486 | 23.368 | -0.1181 |
| 28 | 50 | Unbiased | 23.917 | 23.863 | -0.054 |
| 29 | 50 | Unbiased | 23.394 | 23.706 | 0.3123 |
| 30 | 50 | Unbiased | 23.268 | 23.455 | 0.187 |
| 31 | 0 | Correlation | 22.817 | 22.942 | 0.1256 |
| 32 | 0 | Correlation | 23.153 | 23.166 | 0.0124 |
| 33 | 0 | Correlation | 23.066 | 23.086 | 0.0203 |
| 34 | 0 | Correlation | 23.088 | 23.388 | 0.3004 |

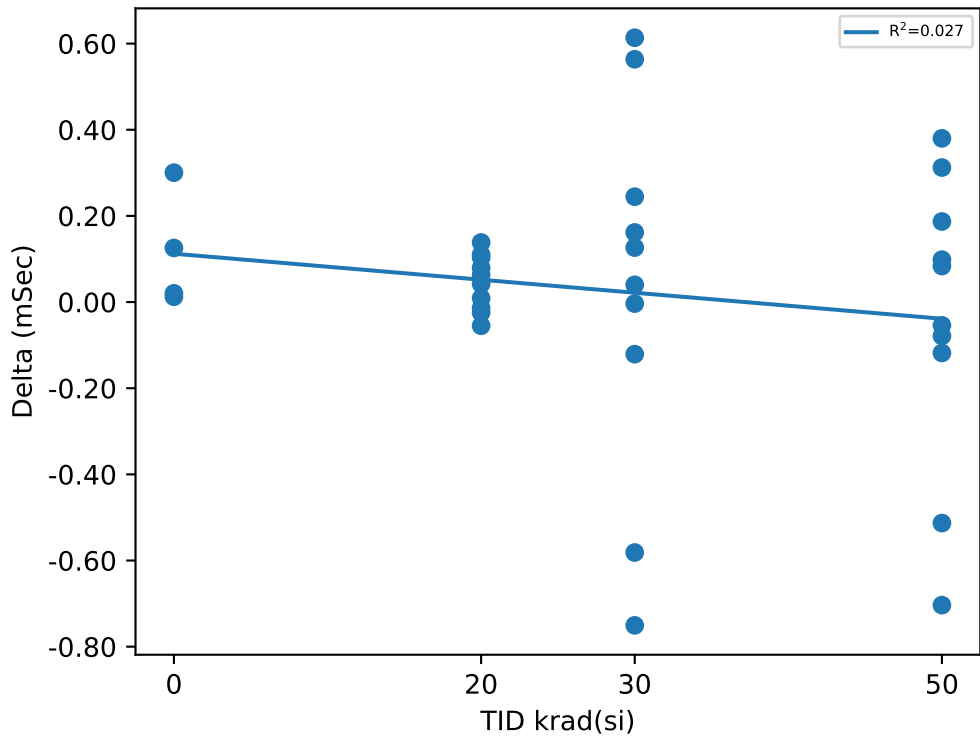## Test Statistics (mSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.817 | 23.031 | 23.153 | 0.14759 | 22.942 | 23.146 | 23.388 | 0.18633 | 0.0124 | 0.11468 | 0.3004 | 0.13414 |
| 20 | 23.109 | 23.534 | 23.949 | 0.30086 | 23.096 | 23.579 | 24.062 | 0.33514 | -0.055 | 0.04515 | 0.1383 | 0.064522 |
| 30 | 23.292 | 23.57 | 24.019 | 0.31476 | 23.269 | 23.599 | 24.01 | 0.28728 | -0.7505 | 0.02934 | 0.6136 | 0.43525 |
| 50 | 22.882 | 23.438 | 23.989 | 0.31989 | 22.923 | 23.397 | 23.863 | 0.26059 | -0.7036 | -0.04059 | 0.38 | 0.34293 |
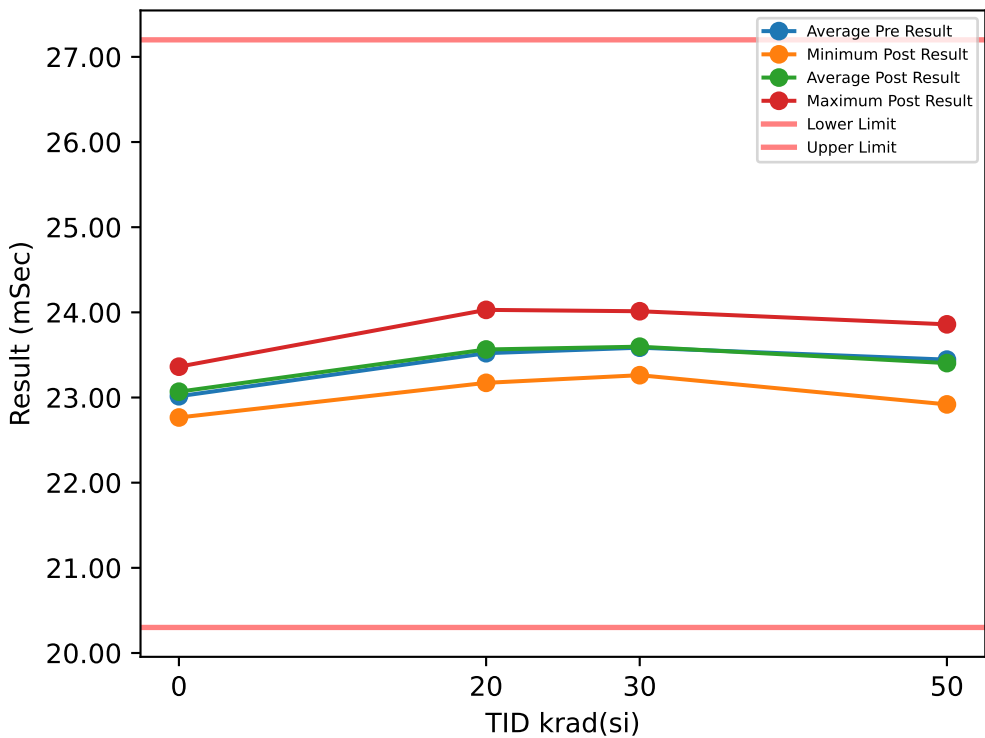
# Device Test: 18.47 REG_TIME_1MOHM(_DELAY|TIMING/SENSE3/7/14/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2 = 0.016$

## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.819 | 23.82 | 0.0011 |
| 2 | 20 | Bias | 23.919 | 24.029 | 0.1102 |
| 3 | 20 | Bias | 23.891 | 24.017 | 0.1261 |
| 4 | 20 | Bias | 23.395 | 23.262 | -0.1323 |
| 5 | 20 | Bias | 23.506 | 23.591 | 0.0842 |
| 6 | 20 | Unbiased | 23.094 | 23.2 | 0.1063 |
| 7 | 20 | Unbiased | 23.122 | 23.172 | 0.0506 |
| 8 | 20 | Unbiased | 23.596 | 23.558 | -0.0375 |
| 9 | 20 | Unbiased | 23.35 | 23.418 | 0.0672 |
| 10 | 20 | Unbiased | 23.511 | 23.574 | 0.0624 |
| 11 | 30 | Bias | 23.33 | 23.482 | 0.152 |
| 12 | 30 | Bias | 23.244 | 23.279 | 0.0353 |
| 13 | 30 | Bias | 23.913 | 23.306 | -0.6076 |
| 14 | 30 | Bias | 23.967 | 23.831 | -0.1353 |
| 15 | 30 | Bias | 23.33 | 23.882 | 0.5528 |
| 16 | 30 | Unbiased | 23.467 | 23.323 | -0.1441 |
| 17 | 30 | Unbiased | 23.989 | 23.262 | -0.7266 |
| 18 | 30 | Unbiased | 23.69 | 24.013 | 0.3234 |
| 19 | 30 | Unbiased | 23.524 | 23.992 | 0.4678 |
| 20 | 30 | Unbiased | 23.398 | 23.599 | 0.2011 |
| 21 | 50 | Bias | 23.432 | 23.259 | -0.1728 |
| 22 | 50 | Bias | 22.851 | 23.231 | 0.38 |
| 23 | 50 | Bias | 23.424 | 22.919 | -0.5043 |
| 24 | 50 | Bias | 23.959 | 23.446 | -0.5134 |
| 25 | 50 | Bias | 23.363 | 23.491 | 0.1284 |
| 26 | 50 | Unbiased | 23.41 | 23.494 | 0.084 |
| 27 | 50 | Unbiased | 23.481 | 23.287 | -0.1937 |
| 28 | 50 | Unbiased | 23.882 | 23.859 | -0.0226 |
| 29 | 50 | Unbiased | 23.39 | 23.657 | 0.2674 |
| 30 | 50 | Unbiased | 23.259 | 23.397 | 0.1385 |
| 31 | 0 | Correlation | 22.772 | 22.765 | -0.0064 |
| 32 | 0 | Correlation | 23.144 | 23.106 | -0.0387 |
| 33 | 0 | Correlation | 23.045 | 23.04 | -0.0049 |
| 34 | 0 | Correlation | 23.098 | 23.362 | 0.264 |

## Test Statistics (mSec)
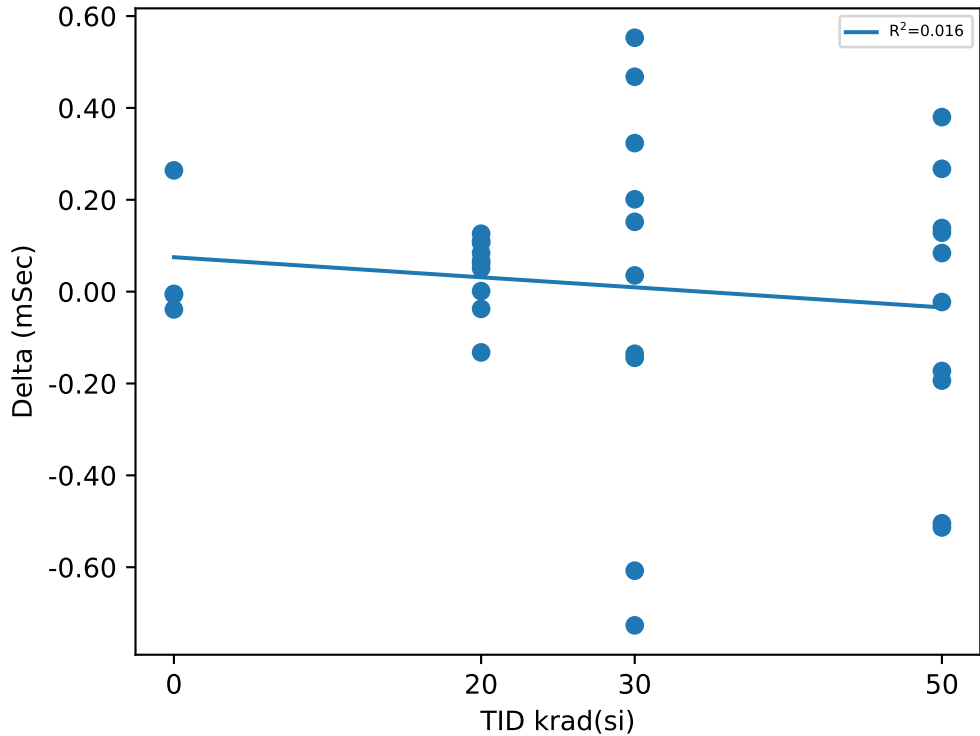
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.772 | 23.015 | 23.144 | 0.16695 | 22.765 | 23.068 | 23.362 | 0.24508 | -0.0387 | 0.0535 | 0.264 | 0.1412 |
| 20 | 23.094 | 23.52 | 23.919 | 0.29383 | 23.172 | 23.564 | 24.029 | 0.31381 | -0.1323 | 0.04383 | 0.1261 | 0.079655 |
| 30 | 23.244 | 23.585 | 23.989 | 0.28411 | 23.262 | 23.597 | 24.013 | 0.30758 | -0.7266 | 0.01188 | 0.5528 | 0.42539 |
| 50 | 22.851 | 23.445 | 23.959 | 0.30836 | 22.919 | 23.404 | 23.859 | 0.25569 | -0.5134 | -0.04085 | 0.38 | 0.30327 |
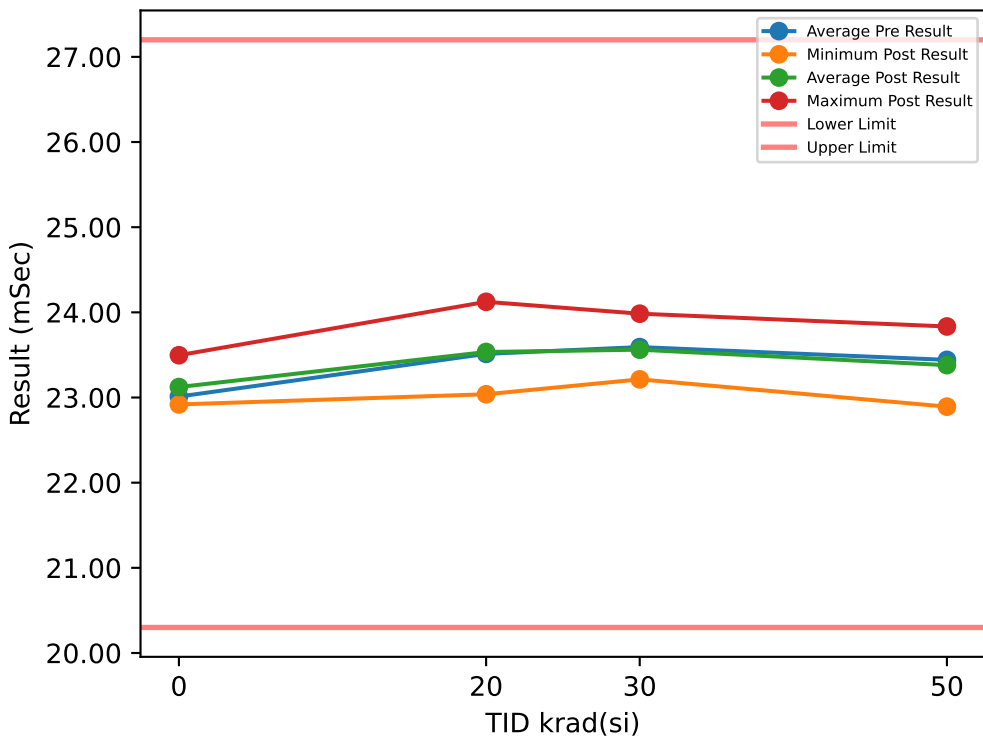
# Device Test: 18.48  REG_TIME_1MOHM(_DELAY|TIMING/SENSE4/7/14/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 23.795 | 23.772 | -0.0233 |
| 2 | 20 | Bias | 24.08 | 24.124 | 0.0439 |
| 3 | 20 | Bias | 23.866 | 24.005 | 0.139 |
| 4 | 20 | Bias | 23.366 | 23.206 | -0.1597 |
| 5 | 20 | Bias | 23.5 | 23.558 | 0.0586 |
| 6 | 20 | Unbiased | 23.012 | 23.038 | 0.0258 |
| 7 | 20 | Unbiased | 23.12 | 23.185 | 0.0648 |
| 8 | 20 | Unbiased | 23.599 | 23.52 | -0.0781 |
| 9 | 20 | Unbiased | 23.325 | 23.368 | 0.0432 |
| 10 | 20 | Unbiased | 23.461 | 23.569 | 0.1084 |
| 11 | 30 | Bias | 23.269 | 23.456 | 0.1867 |
| 12 | 30 | Bias | 23.262 | 23.297 | 0.0348 |
| 13 | 30 | Bias | 24.055 | 23.304 | -0.7514 |
| 14 | 30 | Bias | 23.919 | 23.783 | -0.1359 |
| 15 | 30 | Bias | 23.457 | 23.835 | 0.3775 |
| 16 | 30 | Unbiased | 23.431 | 23.268 | -0.1629 |
| 17 | 30 | Unbiased | 23.985 | 23.213 | -0.7715 |
| 18 | 30 | Unbiased | 23.678 | 23.984 | 0.3067 |
| 19 | 30 | Unbiased | 23.495 | 23.916 | 0.4205 |
| 20 | 30 | Unbiased | 23.37 | 23.559 | 0.189 |
| 21 | 50 | Bias | 23.424 | 23.205 | -0.2198 |
| 22 | 50 | Bias | 22.822 | 23.204 | 0.3817 |
| 23 | 50 | Bias | 23.546 | 22.893 | -0.6531 |
| 24 | 50 | Bias | 23.969 | 23.419 | -0.55 |
| 25 | 50 | Bias | 23.387 | 23.451 | 0.0639 |
| 26 | 50 | Unbiased | 23.404 | 23.493 | 0.0891 |
| 27 | 50 | Unbiased | 23.453 | 23.313 | -0.1401 |
| 28 | 50 | Unbiased | 23.884 | 23.834 | -0.0499 |
| 29 | 50 | Unbiased | 23.332 | 23.637 | 0.3057 |
| 30 | 50 | Unbiased | 23.201 | 23.353 | 0.1515 |
| 31 | 0 | Correlation | 22.901 | 22.919 | 0.018 |
| 32 | 0 | Correlation | 23.088 | 23.086 | -0.0022 |
| 33 | 0 | Correlation | 23.037 | 22.991 | -0.0466 |
| 34 | 0 | Correlation | 23.02 | 23.497 | 0.4763 |

## Test Statistics (mSec)
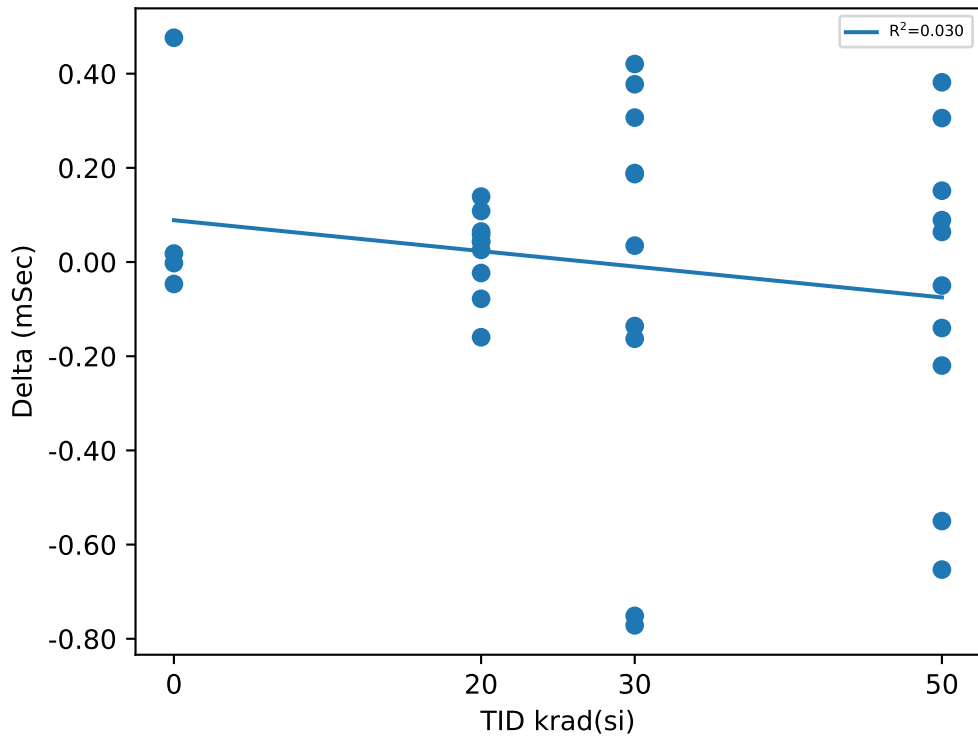
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.901 | 23.011 | 23.088 | 0.079332 | 22.919 | 23.123 | 23.497 | 0.25841 | -0.0466 | 0.11138 | 0.4763 | 0.24478 |
| 20 | 23.012 | 23.512 | 24.08 | 0.33297 | 23.038 | 23.535 | 24.124 | 0.35451 | -0.1597 | 0.02226 | 0.139 | 0.088415 |
| 30 | 23.262 | 23.592 | 24.055 | 0.29792 | 23.213 | 23.562 | 23.984 | 0.29499 | -0.7715 | -0.03065 | 0.4205 | 0.43213 |
| 50 | 22.822 | 23.442 | 23.969 | 0.32366 | 22.893 | 23.38 | 23.834 | 0.25743 | -0.6531 | -0.0621 | 0.3817 | 0.33912 |
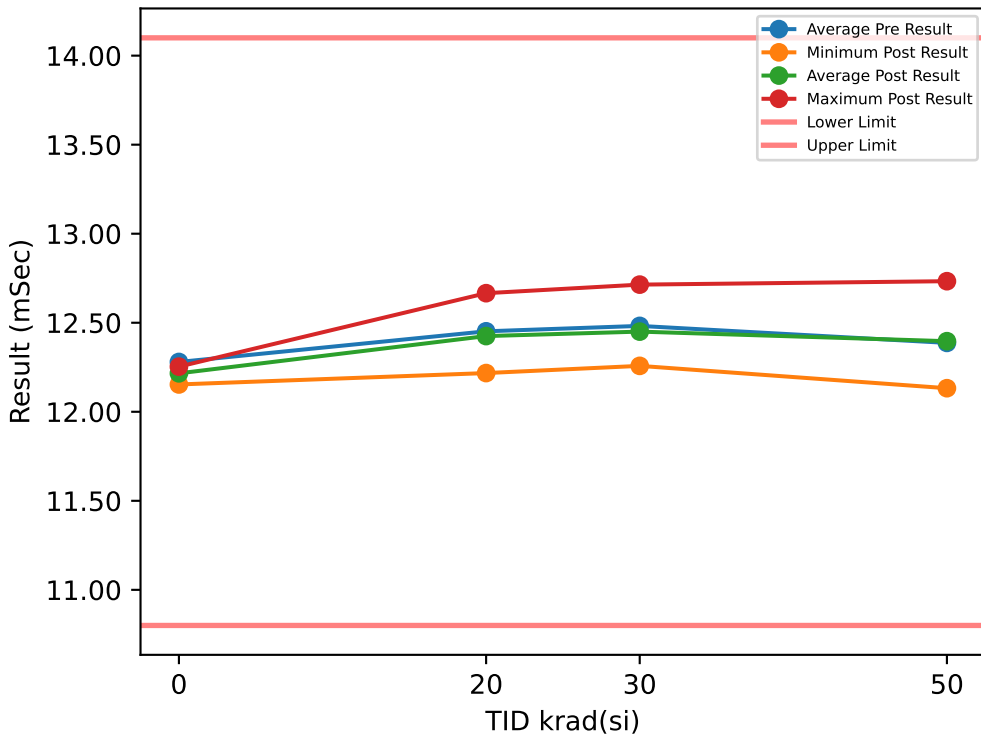
# Device Test: 18.5   REG_TIME_500KOHM(_DELAY|TIMING/SENSE1/1.6/3/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.495 | 12.502 | 0.0071 |
| 2 | 20 | Bias | 12.759 | 12.666 | -0.0934 |
| 3 | 20 | Bias | 12.688 | 12.576 | -0.1119 |
| 4 | 20 | Bias | 12.428 | 12.393 | -0.0352 |
| 5 | 20 | Bias | 12.459 | 12.365 | -0.0944 |
| 6 | 20 | Unbiased | 12.36 | 12.217 | -0.1423 |
| 7 | 20 | Unbiased | 12.216 | 12.361 | 0.1458 |
| 8 | 20 | Unbiased | 12.441 | 12.406 | -0.0351 |
| 9 | 20 | Unbiased | 12.347 | 12.384 | 0.0371 |
| 10 | 20 | Unbiased | 12.326 | 12.381 | 0.0545 |
| 11 | 30 | Bias | 12.378 | 12.3 | -0.0775 |
| 12 | 30 | Bias | 12.396 | 12.258 | -0.1379 |
| 13 | 30 | Bias | 12.694 | 12.419 | -0.2755 |
| 14 | 30 | Bias | 12.743 | 12.456 | -0.2878 |
| 15 | 30 | Bias | 12.518 | 12.687 | 0.1689 |
| 16 | 30 | Unbiased | 12.224 | 12.281 | 0.0576 |
| 17 | 30 | Unbiased | 12.57 | 12.339 | -0.2308 |
| 18 | 30 | Unbiased | 12.459 | 12.558 | 0.0993 |
| 19 | 30 | Unbiased | 12.425 | 12.714 | 0.2895 |
| 20 | 30 | Unbiased | 12.416 | 12.49 | 0.0738 |
| 21 | 50 | Bias | 12.406 | 12.367 | -0.0396 |
| 22 | 50 | Bias | 12.238 | 12.423 | 0.1855 |
| 23 | 50 | Bias | 12.438 | 12.132 | -0.3052 |
| 24 | 50 | Bias | 12.54 | 12.249 | -0.2909 |
| 25 | 50 | Bias | 12.37 | 12.421 | 0.0512 |
| 26 | 50 | Unbiased | 12.374 | 12.28 | -0.0942 |
| 27 | 50 | Unbiased | 12.274 | 12.294 | 0.0201 |
| 28 | 50 | Unbiased | 12.553 | 12.733 | 0.1799 |
| 29 | 50 | Unbiased | 12.444 | 12.606 | 0.1617 |
| 30 | 50 | Unbiased | 12.232 | 12.459 | 0.2266 |
| 31 | 0 | Correlation | 12.262 | 12.254 | -0.0083 |
| 32 | 0 | Correlation | 12.354 | 12.228 | -0.1256 |
| 33 | 0 | Correlation | 12.149 | 12.153 | 0.0041 |
| 34 | 0 | Correlation | 12.354 | 12.229 | -0.1252 |

## Test Statistics (mSec)
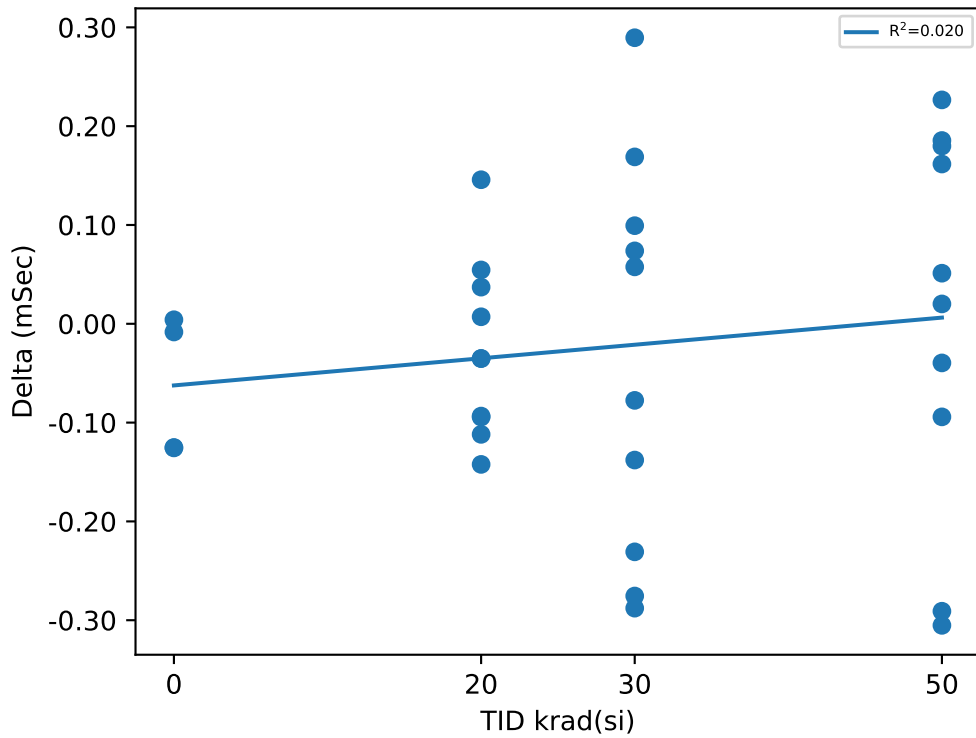
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.149 | 12.28 | 12.354 | 0.097162 | 12.153 | 12.216 | 12.254 | 0.043342 | -0.1256 | -0.06375 | 0.0041 | 0.071367 |
| 20 | 12.216 | 12.452 | 12.759 | 0.16464 | 12.217 | 12.425 | 12.666 | 0.12584 | -0.1423 | -0.02678 | 0.1458 | 0.089044 |
| 30 | 12.224 | 12.482 | 12.743 | 0.15468 | 12.258 | 12.45 | 12.714 | 0.1634 | -0.2878 | -0.03204 | 0.2895 | 0.19936 |
| 50 | 12.232 | 12.387 | 12.553 | 0.11388 | 12.132 | 12.396 | 12.733 | 0.17605 | -0.3052 | 0.00951 | 0.2266 | 0.19282 |
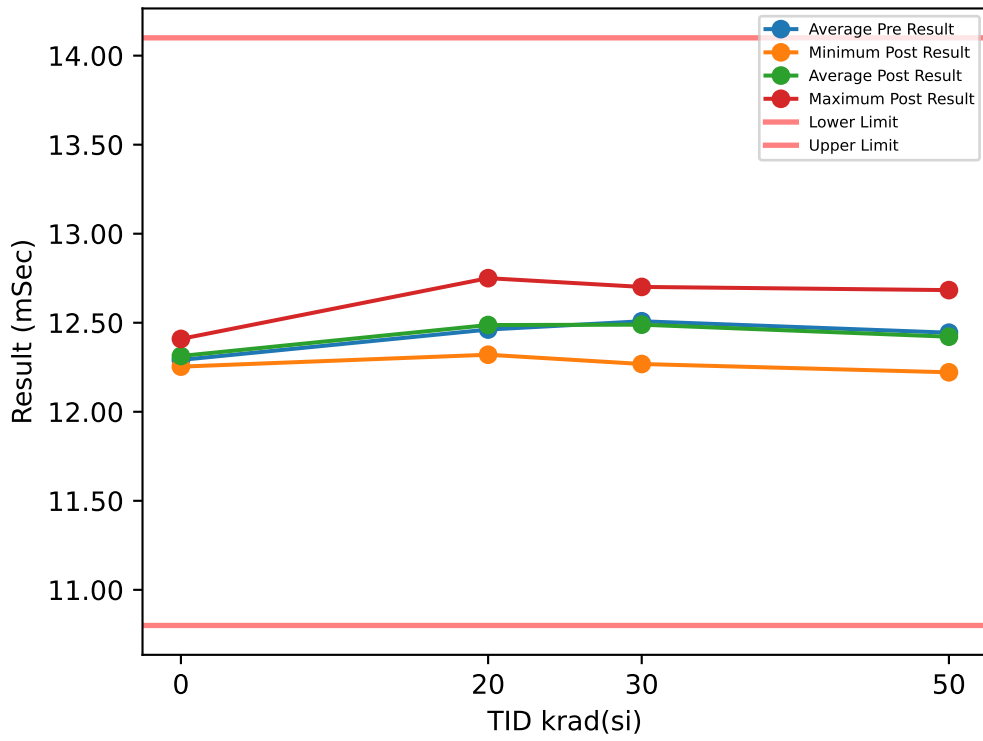
# Device Test: 18.6   REG_TIME_500KOHM(_DELAY|TIMING/SENSE2/1.6/3/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.611 | 12.65 | 0.0391 |
| 2 | 20 | Bias | 12.772 | 12.75 | -0.0212 |
| 3 | 20 | Bias | 12.678 | 12.746 | 0.0682 |
| 4 | 20 | Bias | 12.38 | 12.384 | 0.0043 |
| 5 | 20 | Bias | 12.403 | 12.448 | 0.0449 |
| 6 | 20 | Unbiased | 12.338 | 12.32 | -0.0172 |
| 7 | 20 | Unbiased | 12.299 | 12.34 | 0.0416 |
| 8 | 20 | Unbiased | 12.373 | 12.372 | -0.0003 |
| 9 | 20 | Unbiased | 12.334 | 12.375 | 0.0412 |
| 10 | 20 | Unbiased | 12.431 | 12.485 | 0.0539 |
| 11 | 30 | Bias | 12.39 | 12.373 | -0.0178 |
| 12 | 30 | Bias | 12.358 | 12.311 | -0.047 |
| 13 | 30 | Bias | 12.666 | 12.386 | -0.28 |
| 14 | 30 | Bias | 12.719 | 12.613 | -0.1055 |
| 15 | 30 | Bias | 12.5 | 12.701 | 0.2014 |
| 16 | 30 | Unbiased | 12.39 | 12.39 | -0.0003 |
| 17 | 30 | Unbiased | 12.692 | 12.268 | -0.4239 |
| 18 | 30 | Unbiased | 12.569 | 12.687 | 0.1183 |
| 19 | 30 | Unbiased | 12.371 | 12.701 | 0.3292 |
| 20 | 30 | Unbiased | 12.429 | 12.462 | 0.0333 |
| 21 | 50 | Bias | 12.422 | 12.386 | -0.0358 |
| 22 | 50 | Bias | 12.248 | 12.401 | 0.1527 |
| 23 | 50 | Bias | 12.391 | 12.222 | -0.1692 |
| 24 | 50 | Bias | 12.672 | 12.376 | -0.2958 |
| 25 | 50 | Bias | 12.505 | 12.538 | 0.0335 |
| 26 | 50 | Unbiased | 12.296 | 12.328 | 0.0319 |
| 27 | 50 | Unbiased | 12.355 | 12.336 | -0.0186 |
| 28 | 50 | Unbiased | 12.727 | 12.683 | -0.0437 |
| 29 | 50 | Unbiased | 12.4 | 12.541 | 0.1401 |
| 30 | 50 | Unbiased | 12.426 | 12.405 | -0.0213 |
| 31 | 0 | Correlation | 12.207 | 12.254 | 0.0467 |
| 32 | 0 | Correlation | 12.327 | 12.312 | -0.0146 |
| 33 | 0 | Correlation | 12.292 | 12.278 | -0.014 |
| 34 | 0 | Correlation | 12.339 | 12.409 | 0.0705 |

## Test Statistics (mSec)
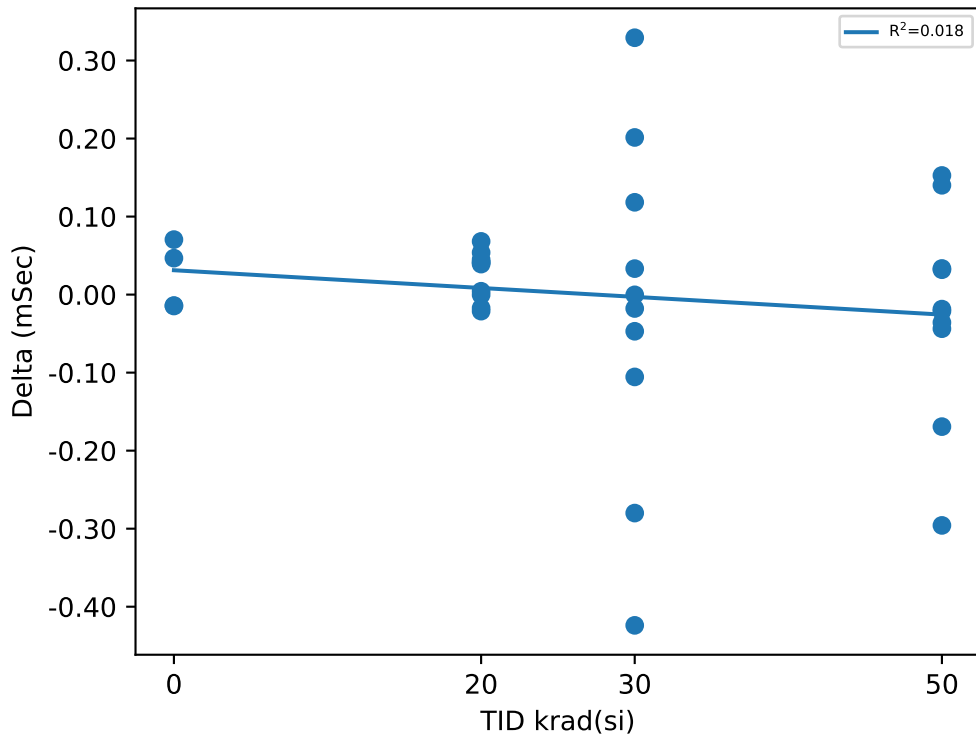
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.207 | 12.291 | 12.339 | 0.059636 | 12.254 | 12.313 | 12.409 | 0.068344 | -0.0146 | 0.02215 | 0.0705 | 0.043196 |
| 20 | 12.299 | 12.462 | 12.772 | 0.16399 | 12.32 | 12.487 | 12.75 | 0.1666 | -0.0212 | 0.02545 | 0.0682 | 0.031298 |
| 30 | 12.358 | 12.508 | 12.719 | 0.14232 | 12.268 | 12.489 | 12.701 | 0.16992 | -0.4239 | -0.01923 | 0.3292 | 0.21911 |
| 50 | 12.248 | 12.444 | 12.727 | 0.15255 | 12.222 | 12.422 | 12.683 | 0.13176 | -0.2958 | -0.02262 | 0.1527 | 0.13337 |
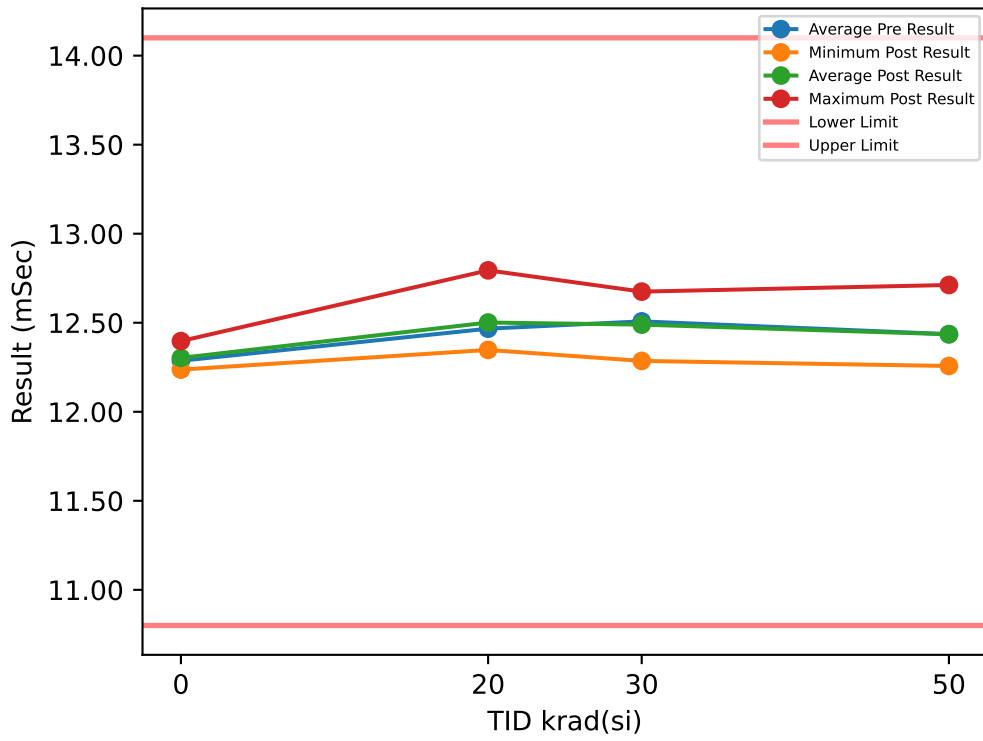
# Device Test: 18.7   REG_TIME_500KOHM(_DELAY|TIMING/SENSE3/1.6/3/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.602 | 12.666 | 0.0638 |
| 2 | 20 | Bias | 12.746 | 12.794 | 0.048 |
| 3 | 20 | Bias | 12.628 | 12.722 | 0.0937 |
| 4 | 20 | Bias | 12.399 | 12.395 | -0.0044 |
| 5 | 20 | Bias | 12.458 | 12.438 | -0.0201 |
| 6 | 20 | Unbiased | 12.308 | 12.363 | 0.0547 |
| 7 | 20 | Unbiased | 12.295 | 12.347 | 0.0525 |
| 8 | 20 | Unbiased | 12.454 | 12.449 | -0.0054 |
| 9 | 20 | Unbiased | 12.345 | 12.366 | 0.0211 |
| 10 | 20 | Unbiased | 12.431 | 12.472 | 0.0409 |
| 11 | 30 | Bias | 12.378 | 12.351 | -0.0269 |
| 12 | 30 | Bias | 12.4 | 12.375 | -0.0251 |
| 13 | 30 | Bias | 12.64 | 12.435 | -0.2058 |
| 14 | 30 | Bias | 12.704 | 12.584 | -0.1196 |
| 15 | 30 | Bias | 12.463 | 12.675 | 0.2116 |
| 16 | 30 | Unbiased | 12.38 | 12.389 | 0.0088 |
| 17 | 30 | Unbiased | 12.665 | 12.286 | -0.3794 |
| 18 | 30 | Unbiased | 12.617 | 12.659 | 0.0412 |
| 19 | 30 | Unbiased | 12.424 | 12.671 | 0.2476 |
| 20 | 30 | Unbiased | 12.406 | 12.47 | 0.0645 |
| 21 | 50 | Bias | 12.419 | 12.333 | -0.0858 |
| 22 | 50 | Bias | 12.222 | 12.388 | 0.1668 |
| 23 | 50 | Bias | 12.383 | 12.257 | -0.1258 |
| 24 | 50 | Bias | 12.623 | 12.399 | -0.2236 |
| 25 | 50 | Bias | 12.47 | 12.519 | 0.0491 |
| 26 | 50 | Unbiased | 12.345 | 12.337 | -0.0072 |
| 27 | 50 | Unbiased | 12.379 | 12.329 | -0.0499 |
| 28 | 50 | Unbiased | 12.702 | 12.712 | 0.0104 |
| 29 | 50 | Unbiased | 12.398 | 12.602 | 0.2042 |
| 30 | 50 | Unbiased | 12.42 | 12.477 | 0.0567 |
| 31 | 0 | Correlation | 12.19 | 12.249 | 0.0592 |
| 32 | 0 | Correlation | 12.334 | 12.328 | -0.0067 |
| 33 | 0 | Correlation | 12.291 | 12.237 | -0.0543 |
| 34 | 0 | Correlation | 12.331 | 12.397 | 0.0664 |

## Test Statistics (mSec)
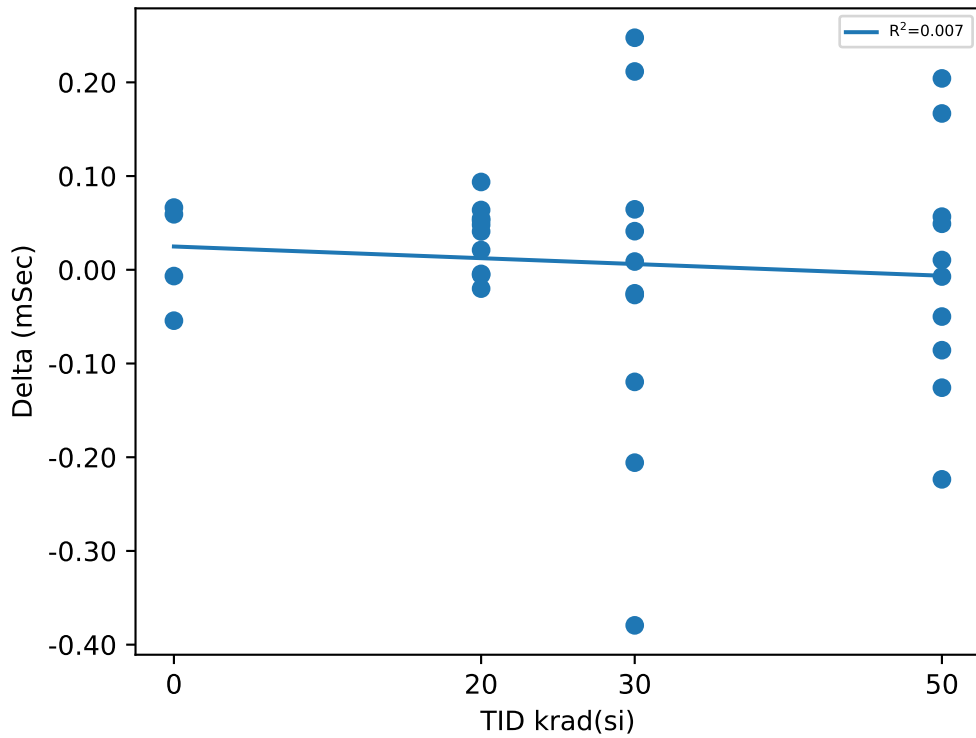
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.19 | 12.287 | 12.334 | 0.067121 | 12.237 | 12.303 | 12.397 | 0.074559 | -0.0543 | 0.01615 | 0.0664 | 0.05734 |
| 20 | 12.295 | 12.467 | 12.746 | 0.14848 | 12.347 | 12.501 | 12.794 | 0.16399 | -0.0201 | 0.03448 | 0.0937 | 0.035877 |
| 30 | 12.378 | 12.508 | 12.704 | 0.13208 | 12.286 | 12.489 | 12.675 | 0.14619 | -0.3794 | -0.01831 | 0.2476 | 0.18578 |
| 50 | 12.222 | 12.436 | 12.702 | 0.13704 | 12.257 | 12.435 | 12.712 | 0.14124 | -0.2236 | -0.00051 | 0.2042 | 0.12952 |
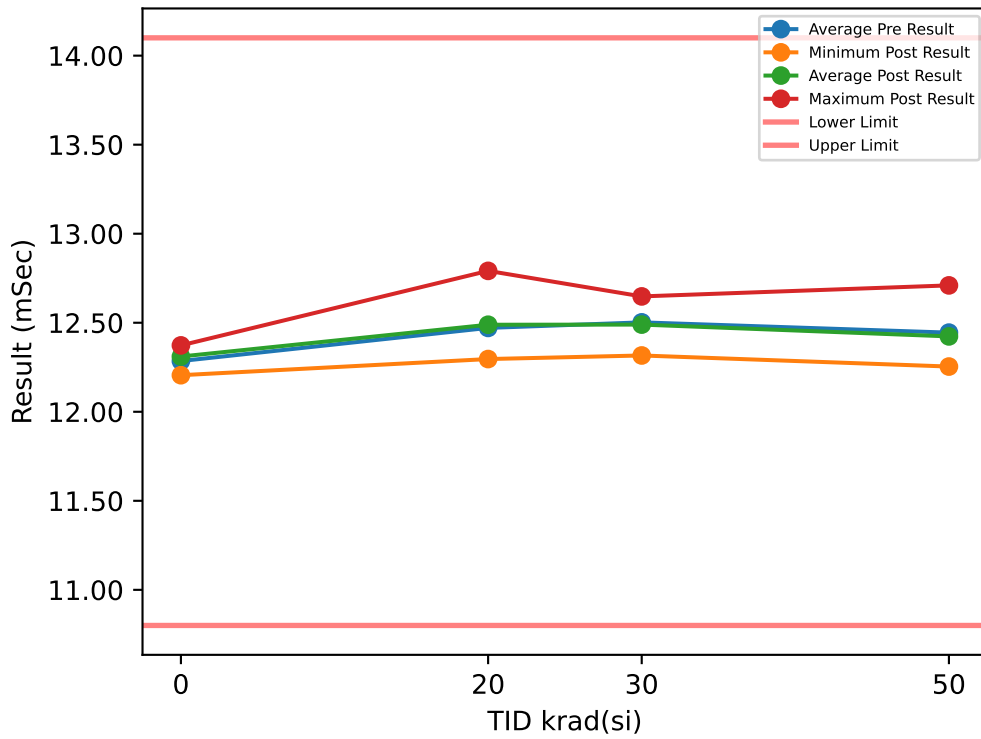
# Device Test: 18.8   REG_TIME_500KOHM(_DELAY|TIMING/SENSE4/1.6/3/0/619K/0/@REG_TIME_500KOHM )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 10.8, Upper Limit = 14.1 (mSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 12.591 | 12.663 | 0.0718 |
| 2 | 20 | Bias | 12.697 | 12.791 | 0.0938 |
| 3 | 20 | Bias | 12.705 | 12.696 | -0.0095 |
| 4 | 20 | Bias | 12.472 | 12.433 | -0.0385 |
| 5 | 20 | Bias | 12.466 | 12.486 | 0.0195 |
| 6 | 20 | Unbiased | 12.307 | 12.312 | 0.0053 |
| 7 | 20 | Unbiased | 12.298 | 12.296 | -0.0017 |
| 8 | 20 | Unbiased | 12.456 | 12.425 | -0.0307 |
| 9 | 20 | Unbiased | 12.312 | 12.328 | 0.0163 |
| 10 | 20 | Unbiased | 12.405 | 12.457 | 0.0519 |
| 11 | 30 | Bias | 12.393 | 12.372 | -0.0203 |
| 12 | 30 | Bias | 12.389 | 12.316 | -0.0728 |
| 13 | 30 | Bias | 12.601 | 12.438 | -0.163 |
| 14 | 30 | Bias | 12.669 | 12.548 | -0.1207 |
| 15 | 30 | Bias | 12.516 | 12.648 | 0.1315 |
| 16 | 30 | Unbiased | 12.356 | 12.459 | 0.1029 |
| 17 | 30 | Unbiased | 12.723 | 12.316 | -0.4071 |
| 18 | 30 | Unbiased | 12.6 | 12.634 | 0.0346 |
| 19 | 30 | Unbiased | 12.371 | 12.645 | 0.2734 |
| 20 | 30 | Unbiased | 12.404 | 12.52 | 0.1163 |
| 21 | 50 | Bias | 12.408 | 12.296 | -0.1114 |
| 22 | 50 | Bias | 12.19 | 12.401 | 0.2111 |
| 23 | 50 | Bias | 12.434 | 12.254 | -0.1797 |
| 24 | 50 | Bias | 12.703 | 12.373 | -0.3293 |
| 25 | 50 | Bias | 12.443 | 12.513 | 0.0696 |
| 26 | 50 | Unbiased | 12.342 | 12.333 | -0.0089 |
| 27 | 50 | Unbiased | 12.399 | 12.325 | -0.0741 |
| 28 | 50 | Unbiased | 12.675 | 12.71 | 0.0351 |
| 29 | 50 | Unbiased | 12.459 | 12.598 | 0.1383 |
| 30 | 50 | Unbiased | 12.393 | 12.431 | 0.0375 |
| 31 | 0 | Correlation | 12.245 | 12.205 | -0.0397 |
| 32 | 0 | Correlation | 12.297 | 12.373 | 0.0759 |
| 33 | 0 | Correlation | 12.239 | 12.328 | 0.0889 |
| 34 | 0 | Correlation | 12.36 | 12.336 | -0.0239 |

## Test Statistics (mSec)
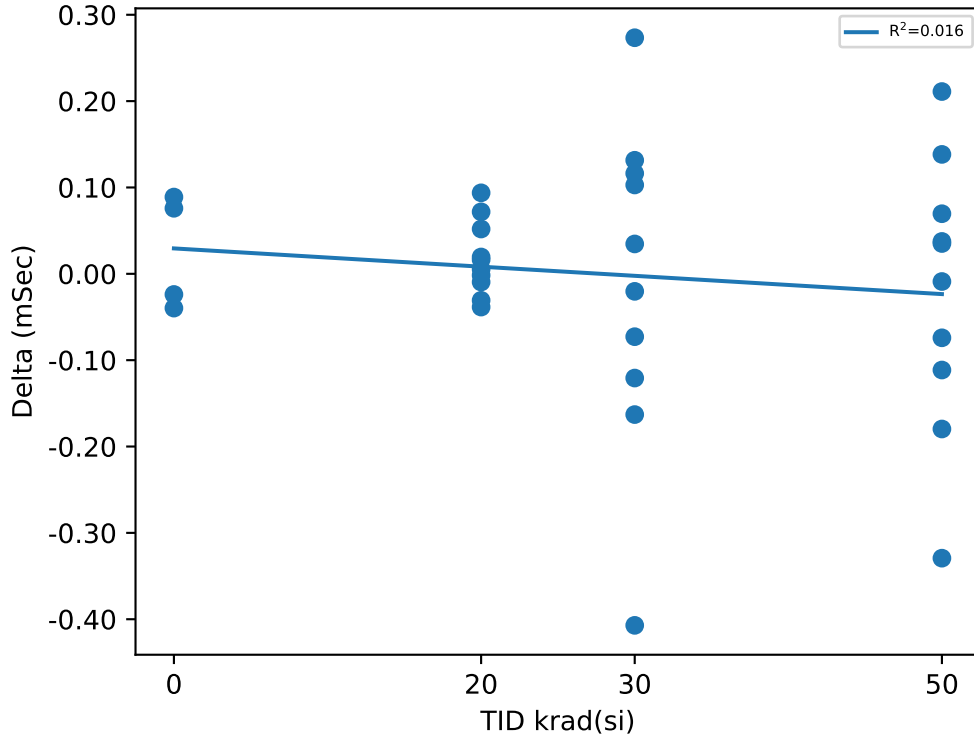
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.239 | 12.285 | 12.36 | 0.056086 | 12.205 | 12.31 | 12.373 | 0.072678 | -0.0397 | 0.0253 | 0.0889 | 0.06646 |
| 20 | 12.298 | 12.471 | 12.705 | 0.15187 | 12.296 | 12.489 | 12.791 | 0.17226 | -0.0385 | 0.01782 | 0.0938 | 0.043029 |
| 30 | 12.356 | 12.502 | 12.723 | 0.13716 | 12.316 | 12.49 | 12.648 | 0.12993 | -0.4071 | -0.01252 | 0.2734 | 0.19101 |
| 50 | 12.19 | 12.445 | 12.703 | 0.14961 | 12.254 | 12.423 | 12.71 | 0.14383 | -0.3293 | -0.02118 | 0.2111 | 0.15825 |
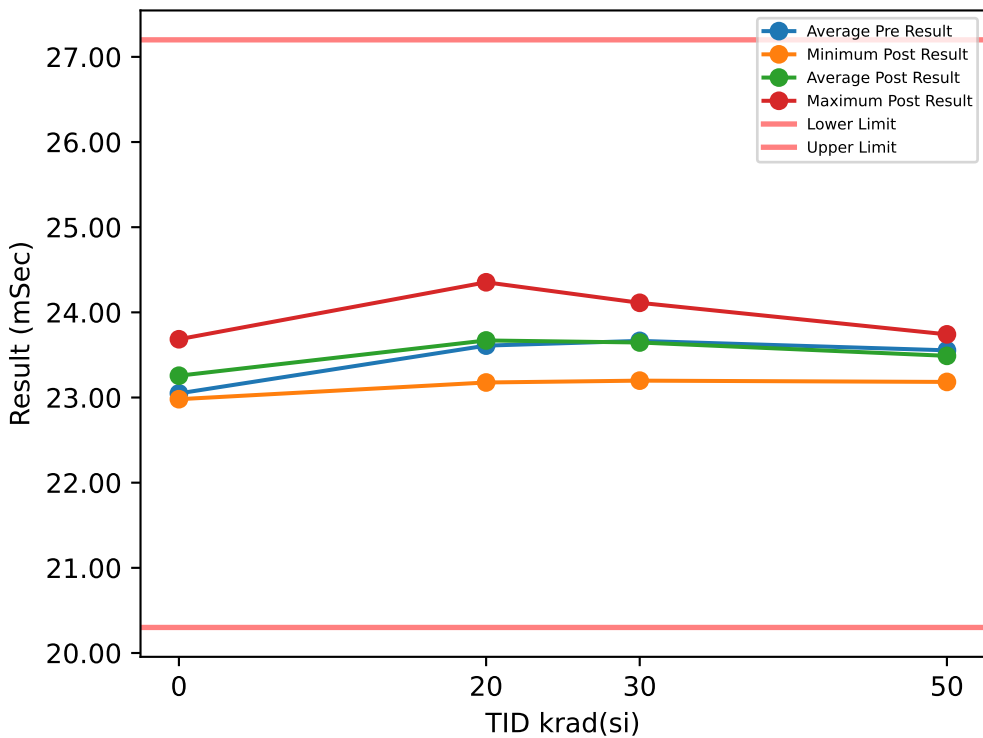
# Device Test: 18.9  REG_TIME_1MOHM(_DELAY|TIMING/SENSE1/1.6/3/0/1.18M/0/@REG_TIME_1MOHM )

## TID vs Result Stats

## TID vs Post - Pre Exposure Delta

R²=0.078

## Test Results (Lower Limit = 20.3, Upper Limit = 27.2 (mSec))

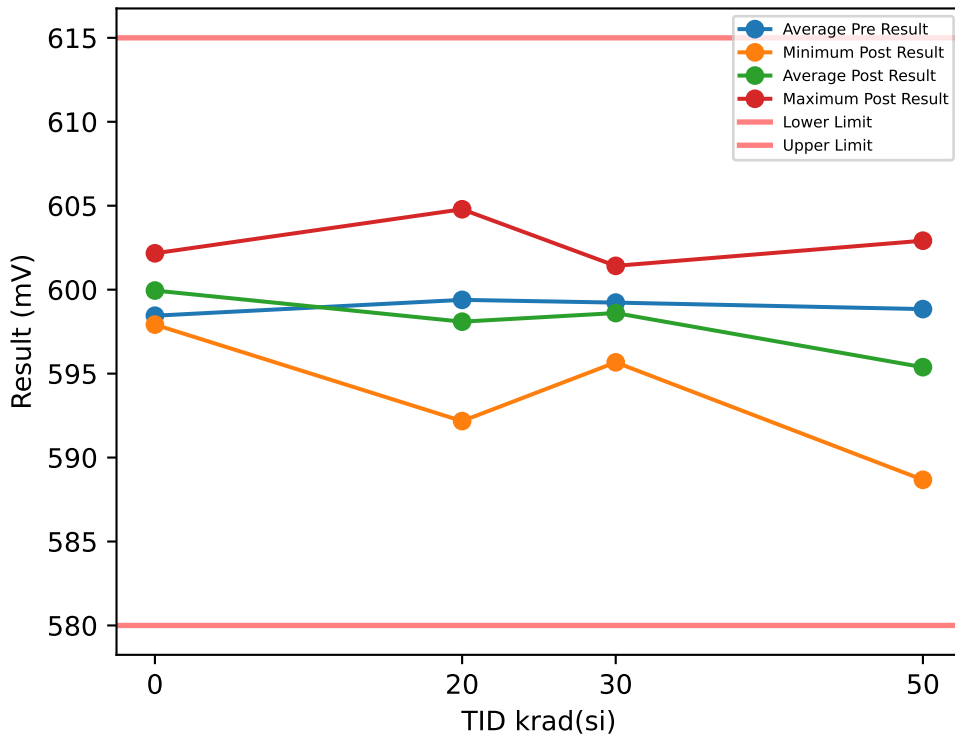| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 24.025 | 23.774 | -0.2511 |
| 2 | 20 | Bias | 23.971 | 24.353 | 0.3819 |
| 3 | 20 | Bias | 24.052 | 24.215 | 0.1632 |
| 4 | 20 | Bias | 23.552 | 23.177 | -0.376 |
| 5 | 20 | Bias | 23.812 | 23.823 | 0.0105 |
| 6 | 20 | Unbiased | 23.078 | 23.333 | 0.2552 |
| 7 | 20 | Unbiased | 23.035 | 23.364 | 0.3293 |
| 8 | 20 | Unbiased | 23.608 | 23.83 | 0.2219 |
| 9 | 20 | Unbiased | 23.242 | 23.263 | 0.0206 |
| 10 | 20 | Unbiased | 23.719 | 23.57 | -0.1487 |
| 11 | 30 | Bias | 23.537 | 23.432 | -0.1048 |
| 12 | 30 | Bias | 23.414 | 23.233 | -0.1802 |
| 13 | 30 | Bias | 23.901 | 23.496 | -0.405 |
| 14 | 30 | Bias | 24.152 | 24.041 | -0.1108 |
| 15 | 30 | Bias | 23.596 | 24.087 | 0.4913 |
| 16 | 30 | Unbiased | 23.306 | 23.198 | -0.1075 |
| 17 | 30 | Unbiased | 24.153 | 23.445 | -0.7078 |
| 18 | 30 | Unbiased | 23.714 | 24.112 | 0.3977 |
| 19 | 30 | Unbiased | 23.634 | 23.866 | 0.2325 |
| 20 | 30 | Unbiased | 23.245 | 23.549 | 0.3033 |
| 21 | 50 | Bias | 23.567 | 23.483 | -0.0841 |
| 22 | 50 | Bias | 22.835 | 23.183 | 0.3478 |
| 23 | 50 | Bias | 23.379 | 23.193 | -0.186 |
| 24 | 50 | Bias | 24.11 | 23.561 | -0.5483 |
| 25 | 50 | Bias | 23.495 | 23.649 | 0.154 |
| 26 | 50 | Unbiased | 23.51 | 23.624 | 0.1138 |
| 27 | 50 | Unbiased | 23.696 | 23.468 | -0.2278 |
| 28 | 50 | Unbiased | 24.035 | 23.742 | -0.2932 |
| 29 | 50 | Unbiased | 23.503 | 23.673 | 0.1691 |
| 30 | 50 | Unbiased | 23.41 | 23.317 | -0.0933 |
| 31 | 0 | Correlation | 22.761 | 23.055 | 0.2933 |
| 32 | 0 | Correlation | 23.056 | 23.305 | 0.2496 |
| 33 | 0 | Correlation | 23.047 | 22.98 | -0.0665 |
| 34 | 0 | Correlation | 23.33 | 23.684 | 0.3544 |

## Test Statistics (mSec)
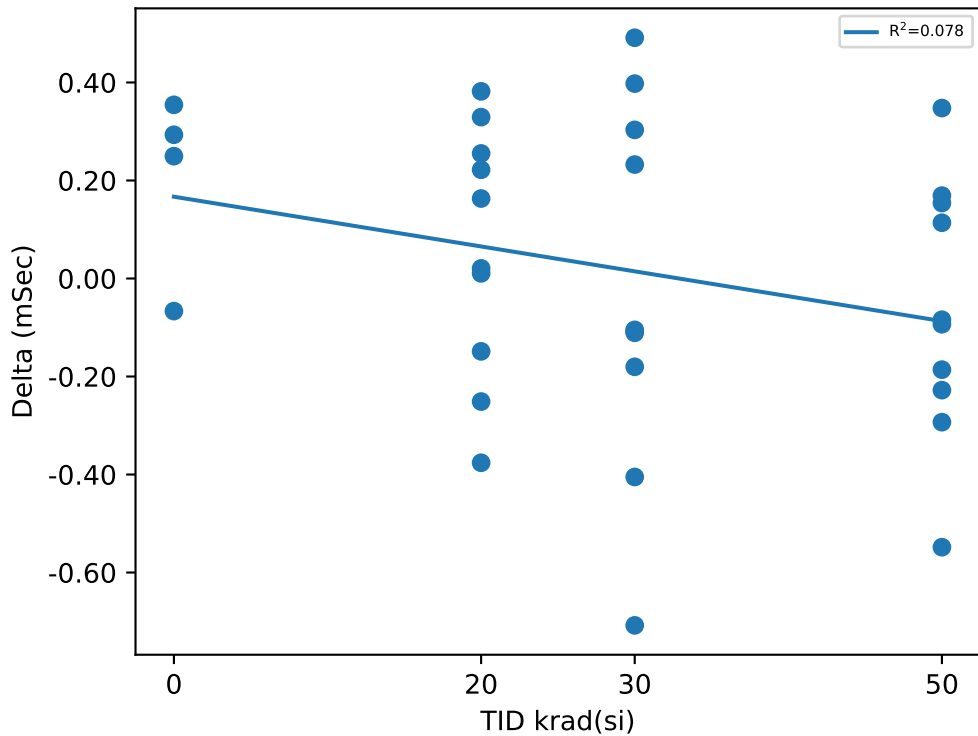
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 22.761 | 23.048 | 23.33 | 0.2321 | 22.98 | 23.256 | 23.684 | 0.31748 | -0.0665 | 0.2077 | 0.3544 | 0.18778 |
| 20 | 23.035 | 23.609 | 24.052 | 0.38048 | 23.177 | 23.67 | 24.353 | 0.40128 | -0.376 | 0.06068 | 0.3819 | 0.25507 |
| 30 | 23.245 | 23.665 | 24.153 | 0.32048 | 23.198 | 23.646 | 24.112 | 0.35046 | -0.7078 | -0.01913 | 0.4913 | 0.37627 |
| 50 | 22.835 | 23.554 | 24.11 | 0.35533 | 23.183 | 23.489 | 23.742 | 0.19945 | -0.5483 | -0.0648 | 0.3478 | 0.26523 |

# Device Test: 19.1   VTH_UP(_LEVEL|RISE/UP/1.6/3/0/0/0/@VTH_UP )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 580.0, Upper Limit = 615.0 (mV))

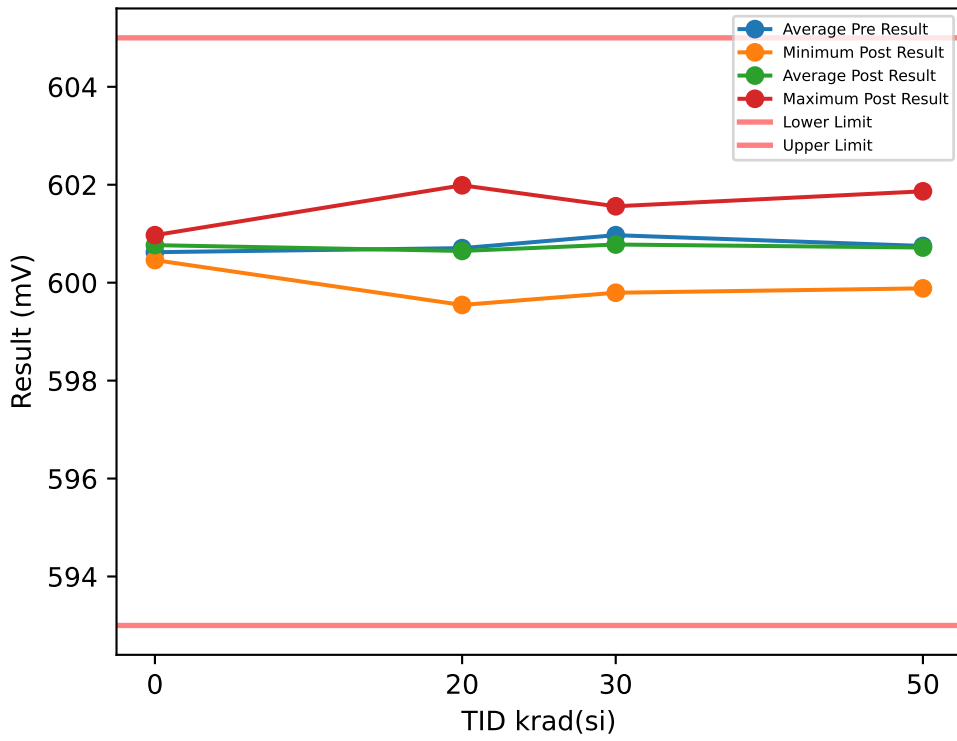| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 603.79 | 604.79 | 0.9995 |
| 2 | 20 | Bias | 599.92 | 598.29 | -1.6241 |
| 3 | 20 | Bias | 597.92 | 598.67 | 0.7496 |
| 4 | 20 | Bias | 602.54 | 601.92 | -0.6246 |
| 5 | 20 | Bias | 597.67 | 597.17 | -0.4997 |
| 6 | 20 | Unbiased | 601.67 | 598.29 | -3.3729 |
| 7 | 20 | Unbiased | 594.3 | 592.17 | -2.1238 |
| 8 | 20 | Unbiased | 597.92 | 595.3 | -2.6234 |
| 9 | 20 | Unbiased | 599.17 | 598.29 | -0.8745 |
| 10 | 20 | Unbiased | 599.04 | 596.04 | -2.9982 |
| 11 | 30 | Bias | 601.17 | 601.42 | 0.2516 |
| 12 | 30 | Bias | 600.17 | 599.79 | -0.3731 |
| 13 | 30 | Bias | 599.04 | 598.05 | -0.9977 |
| 14 | 30 | Bias | 599.79 | 597.42 | -2.3718 |
| 15 | 30 | Bias | 596.92 | 598.17 | 1.2509 |
| 16 | 30 | Unbiased | 597.04 | 595.67 | -1.3725 |
| 17 | 30 | Unbiased | 599.29 | 596.55 | -2.7466 |
| 18 | 30 | Unbiased | 599.67 | 600.04 | 0.3765 |
| 19 | 30 | Unbiased | 599.54 | 599.54 | 0.0018 |
| 20 | 30 | Unbiased | 599.67 | 599.42 | -0.2481 |
| 21 | 50 | Bias | 598.54 | 598.42 | -0.1232 |
| 22 | 50 | Bias | 596.92 | 597.17 | 0.2515 |
| 23 | 50 | Bias | 598.92 | 596.3 | -2.6218 |
| 24 | 50 | Bias | 597.42 | 602.92 | 5.4985 |
| 25 | 50 | Bias | 601.67 | 600.04 | -1.624 |
| 26 | 50 | Unbiased | 598.92 | 591.67 | -7.2457 |
| 27 | 50 | Unbiased | 597.67 | 590.8 | -6.8708 |
| 28 | 50 | Unbiased | 603.54 | 596.04 | -7.4954 |
| 29 | 50 | Unbiased | 599.54 | 591.8 | -7.7452 |
| 30 | 50 | Unbiased | 595.3 | 588.67 | -6.621 |
| 31 | 0 | Correlation | 601.54 | 601.54 | 0 |
| 32 | 0 | Correlation | 597.92 | 597.92 | 0 |
| 33 | 0 | Correlation | 598.29 | 598.17 | -0.1248 |
| 34 | 0 | Correlation | 596.04 | 602.17 | 6.1213 |
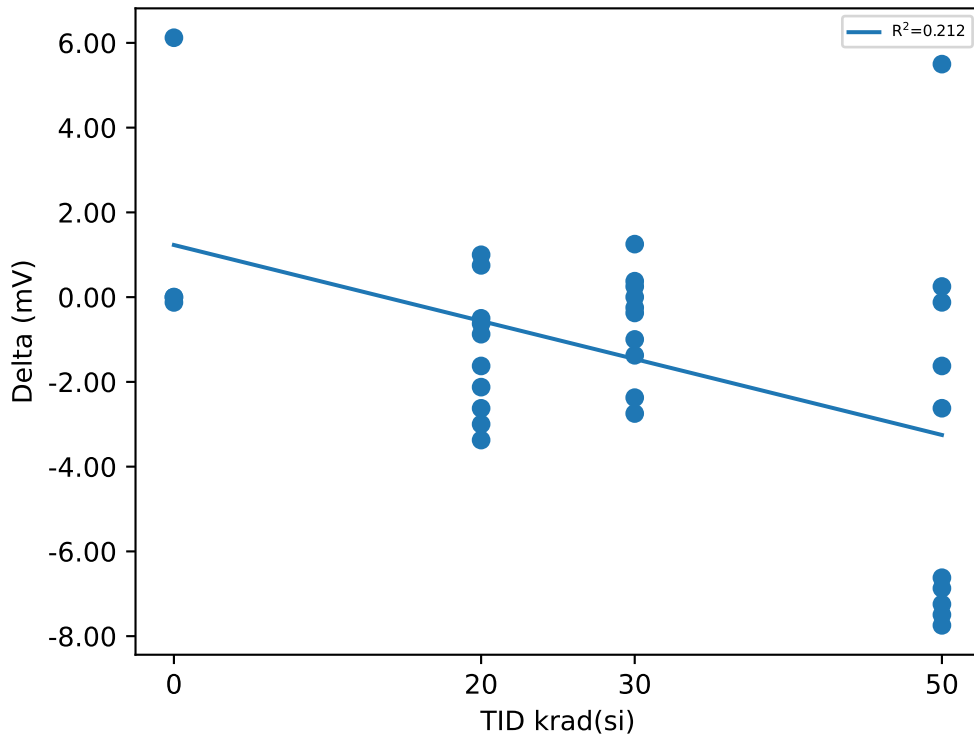
## Test Statistics (mV)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 596.04 | 598.45 | 601.54 | 2.2839 | 597.92 | 599.95 | 602.17 | 2.2169 | -0.1248 | 1.4991 | 6.1213 | 3.082 |
| 20 | 594.3 | 599.39 | 603.79 | 2.752 | 592.17 | 598.09 | 604.79 | 3.4616 | -3.3729 | -1.2992 | 0.9995 | 1.5086 |
| 30 | 596.92 | 599.23 | 601.17 | 1.3158 | 595.67 | 598.61 | 601.42 | 1.7542 | -2.7466 | -0.6229 | 1.2509 | 1.2534 |
| 50 | 595.3 | 598.84 | 603.54 | 2.3645 | 588.67 | 595.38 | 602.92 | 4.5317 | -7.7452 | -3.4597 | 5.4985 | 4.4702 |

# Device Test: 19.10  VTH_SENSE(_LEVEL|FALL/SENSE4/1.6/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.004$

## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

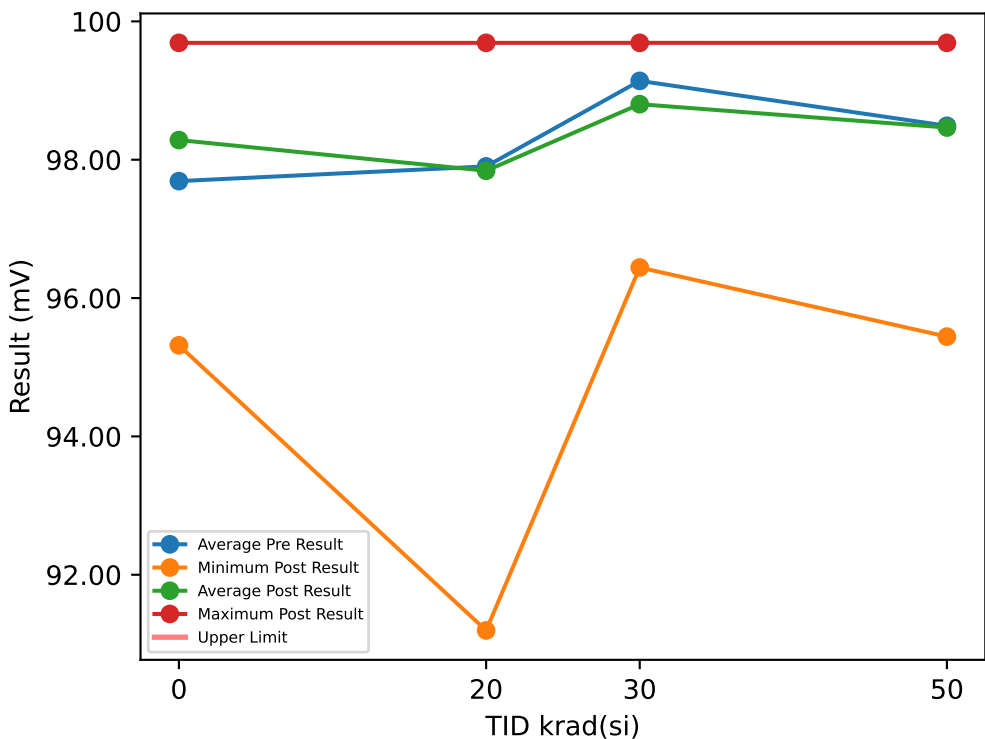| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.05 | 600.12 | 0.0679 |
| 2 | 20 | Bias | 601 | 600.83 | -0.1696 |
| 3 | 20 | Bias | 600.12 | 600.46 | 0.3393 |
| 4 | 20 | Bias | 602.09 | 601.99 | -0.1018 |
| 5 | 20 | Bias | 599.48 | 599.54 | 0.0679 |
| 6 | 20 | Unbiased | 600.97 | 601.11 | 0.1358 |
| 7 | 20 | Unbiased | 601.62 | 601.68 | 0.0679 |
| 8 | 20 | Unbiased | 600.6 | 600.29 | -0.3055 |
| 9 | 20 | Unbiased | 600.66 | 600.22 | -0.4412 |
| 10 | 20 | Unbiased | 600.46 | 600.22 | -0.2375 |
| 11 | 30 | Bias | 601.51 | 601.05 | -0.4625 |
| 12 | 30 | Bias | 600.63 | 601.22 | 0.5897 |
| 13 | 30 | Bias | 600.16 | 600.51 | 0.3518 |
| 14 | 30 | Bias | 601.28 | 600.27 | -1.0058 |
| 15 | 30 | Bias | 600.9 | 601.22 | 0.3182 |
| 16 | 30 | Unbiased | 601.51 | 601.05 | -0.4625 |
| 17 | 30 | Unbiased | 600.7 | 601.56 | 0.8614 |
| 18 | 30 | Unbiased | 600.77 | 600.58 | -0.1912 |
| 19 | 30 | Unbiased | 600.26 | 600.54 | 0.2839 |
| 20 | 30 | Unbiased | 601.99 | 599.79 | -2.194 |
| 21 | 50 | Bias | 600.56 | 601.87 | 1.3028 |
| 22 | 50 | Bias | 600.43 | 600.03 | -0.3951 |
| 23 | 50 | Bias | 600.94 | 601.29 | 0.3521 |
| 24 | 50 | Bias | 601.38 | 600.98 | -0.3947 |
| 25 | 50 | Bias | 601.95 | 601.78 | -0.1697 |
| 26 | 50 | Unbiased | 600.66 | 600.19 | -0.4752 |
| 27 | 50 | Unbiased | 600.97 | 600.66 | -0.3054 |
| 28 | 50 | Unbiased | 600.12 | 600.05 | -0.0679 |
| 29 | 50 | Unbiased | 600.22 | 599.88 | -0.3394 |
| 30 | 50 | Unbiased | 600.26 | 600.43 | 0.1697 |
| 31 | 0 | Correlation | 600.8 | 600.83 | 0.034 |
| 32 | 0 | Correlation | 600.94 | 600.97 | 0.0339 |
| 33 | 0 | Correlation | 600.43 | 600.46 | 0.0339 |
| 34 | 0 | Correlation | 600.33 | 600.8 | 0.4751 |

## Test Statistics (mV)
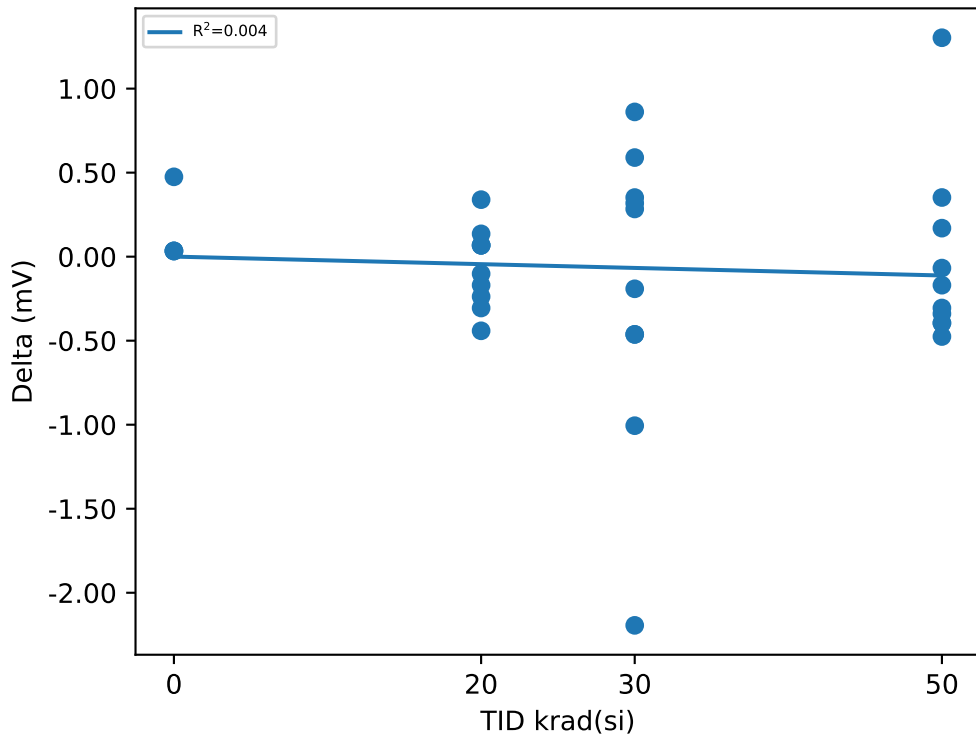
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 600.33 | 600.62 | 600.94 | 0.29244 | 600.46 | 600.77 | 600.97 | 0.21644 | 0.0339 | 0.14423 | 0.4751 | 0.22058 |
| 20 | 599.48 | 600.71 | 602.09 | 0.76389 | 599.54 | 600.65 | 601.99 | 0.75487 | -0.4412 | -0.05768 | 0.3393 | 0.23515 |
| 30 | 600.16 | 600.97 | 601.99 | 0.58935 | 599.79 | 600.78 | 601.56 | 0.53208 | -2.194 | -0.1911 | 0.8614 | 0.90184 |
| 50 | 600.12 | 600.75 | 601.95 | 0.57622 | 599.88 | 600.72 | 601.87 | 0.73211 | -0.4752 | -0.03228 | 1.3028 | 0.53947 |

# Device Test: 19.11  UP_DOWN_VHYS(_LEVEL|HYS/UP/1.6/3/0/0/0/@UP_DOWN_VHYS )

## TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Upper Limit

## TID vs Post - Pre Exposure Delta

$R^2=0.012$

## Test Results (No Limits Specified (mV))

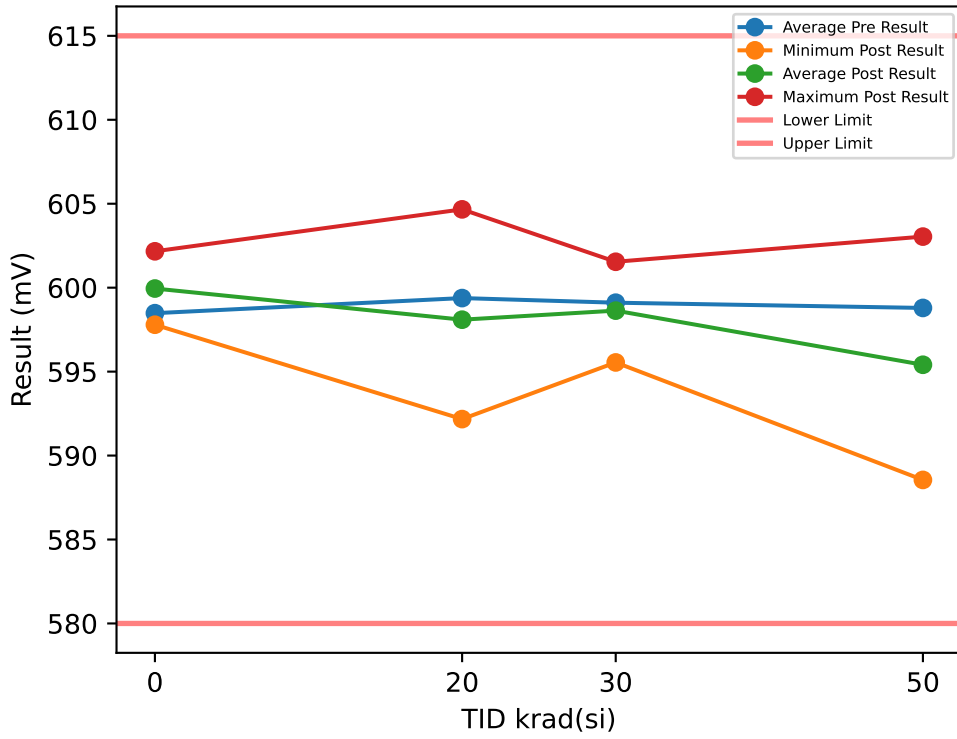| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.565 | 99.69 | 0.125 |
| 2 | 20 | Bias | 99.44 | 99.565 | 0.1249 |
| 3 | 20 | Bias | 99.44 | 99.315 | -0.125 |
| 4 | 20 | Bias | 99.69 | 99.565 | -0.125 |
| 5 | 20 | Bias | 96.941 | 98.191 | 1.2491 |
| 6 | 20 | Unbiased | 99.44 | 99.44 | 0.0001 |
| 7 | 20 | Unbiased | 91.07 | 91.195 | 0.1249 |
| 8 | 20 | Unbiased | 97.691 | 96.317 | -1.3742 |
| 9 | 20 | Unbiased | 99.44 | 99.565 | 0.125 |
| 10 | 20 | Unbiased | 96.317 | 95.567 | -0.7495 |
| 11 | 30 | Bias | 99.69 | 99.315 | -0.3747 |
| 12 | 30 | Bias | 99.44 | 99.565 | 0.1251 |
| 13 | 30 | Bias | 97.816 | 99.44 | 1.6242 |
| 14 | 30 | Bias | 99.565 | 97.566 | -1.9985 |
| 15 | 30 | Bias | 96.816 | 98.69 | 1.874 |
| 16 | 30 | Unbiased | 99.44 | 96.442 | -2.9979 |
| 17 | 30 | Unbiased | 99.815 | 98.441 | -1.374 |
| 18 | 30 | Unbiased | 99.69 | 99.69 | 0.0002 |
| 19 | 30 | Unbiased | 99.44 | 99.44 | 0.0003 |
| 20 | 30 | Unbiased | 99.69 | 99.44 | -0.2497 |
| 21 | 50 | Bias | 96.567 | 99.565 | 2.9983 |
| 22 | 50 | Bias | 95.692 | 96.567 | 0.8746 |
| 23 | 50 | Bias | 98.066 | 95.442 | -2.6233 |
| 24 | 50 | Bias | 99.565 | 98.191 | -1.3739 |
| 25 | 50 | Bias | 99.69 | 99.69 | 0 |
| 26 | 50 | Unbiased | 100.19 | 99.69 | -0.4998 |
| 27 | 50 | Unbiased | 99.44 | 99.565 | 0.1249 |
| 28 | 50 | Unbiased | 99.565 | 99.315 | -0.2498 |
| 29 | 50 | Unbiased | 99.44 | 99.44 | 0.0001 |
| 30 | 50 | Unbiased | 96.691 | 97.191 | 0.4998 |
| 31 | 0 | Correlation | 99.44 | 99.69 | 0.2498 |
| 32 | 0 | Correlation | 98.94 | 98.815 | -0.125 |
| 33 | 0 | Correlation | 95.317 | 95.317 | 0.0001 |
| 34 | 0 | Correlation | 97.066 | 99.315 | 2.2486 |
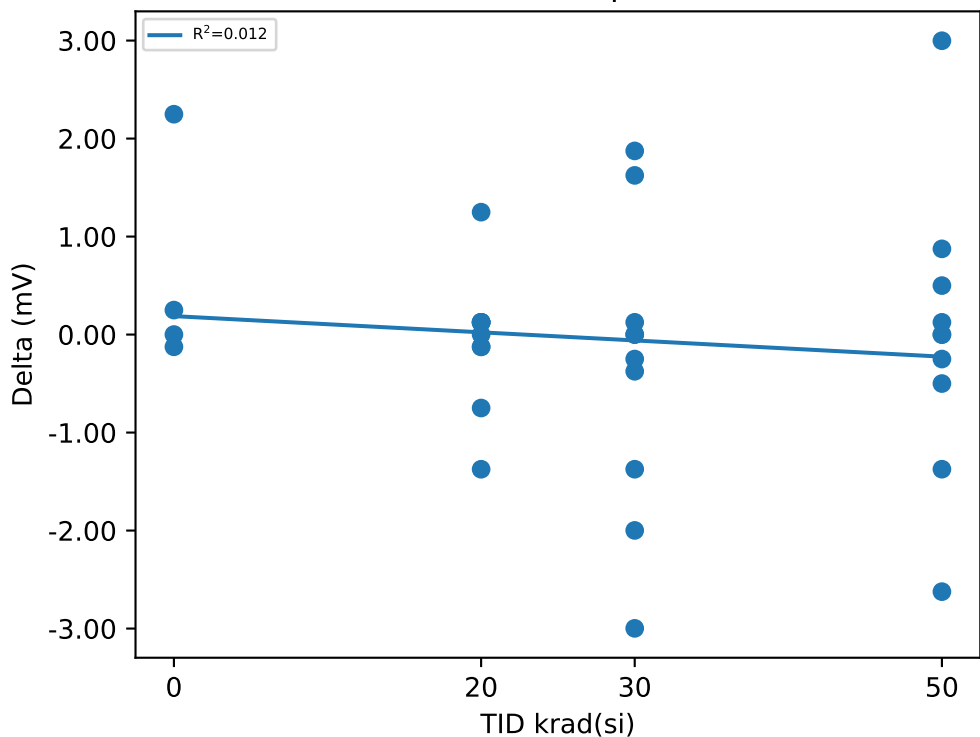
## Test Statistics (mV)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 95.317 | 97.691 | 99.44 | 1.8835 | 95.317 | 98.284 | 99.69 | 2.0101 | -0.125 | 0.59337 | 2.2486 | 1.1144 |
| 20 | 91.07 | 97.903 | 99.69 | 2.6994 | 91.195 | 97.841 | 99.69 | 2.7658 | -1.3742 | -0.06247 | 1.2491 | 0.67207 |
| 30 | 96.816 | 99.14 | 99.815 | 0.998 | 96.442 | 98.803 | 99.69 | 1.0591 | -2.9979 | -0.3371 | 1.874 | 1.4945 |
| 50 | 95.692 | 98.49 | 100.19 | 1.6119 | 95.442 | 98.465 | 99.69 | 1.5466 | -2.6233 | -0.02491 | 2.9983 | 1.4566 |

# Device Test: 19.12  VTH_UP(_LEVEL|RISE/UP/7/3/0/0/0/@VTH_UP )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 580.0, Upper Limit = 615.0 (mV))

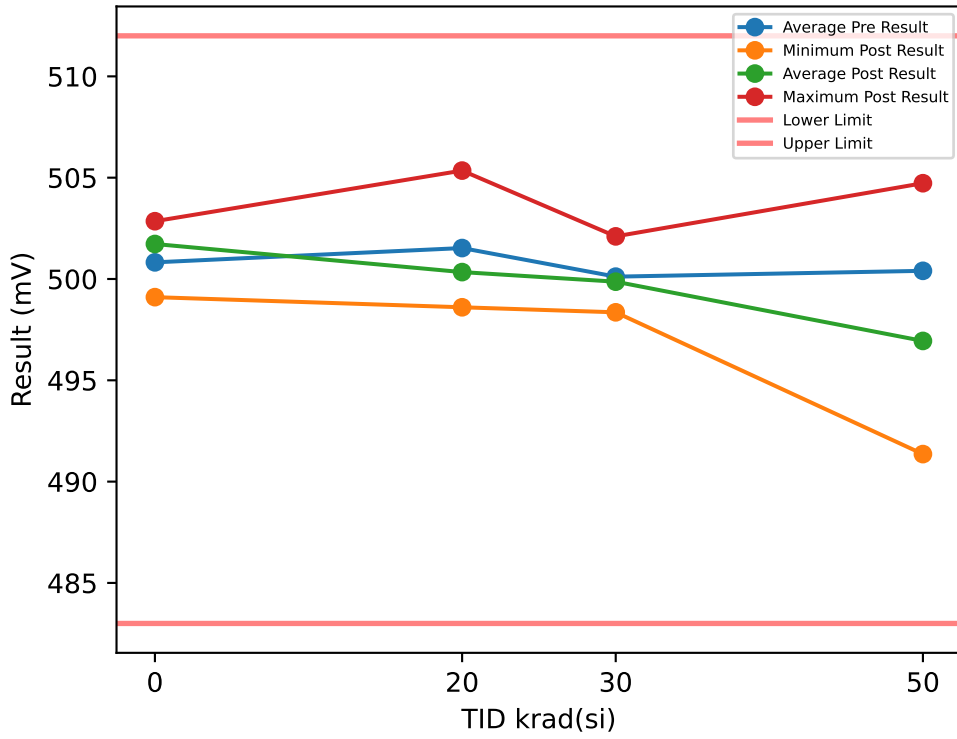| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 603.79 | 604.66 | 0.8746 |
| 2 | 20 | Bias | 599.79 | 598.29 | -1.4991 |
| 3 | 20 | Bias | 598.04 | 598.79 | 0.7495 |
| 4 | 20 | Bias | 602.67 | 601.92 | -0.7495 |
| 5 | 20 | Bias | 597.79 | 597.04 | -0.7495 |
| 6 | 20 | Unbiased | 601.54 | 598.54 | -2.9982 |
| 7 | 20 | Unbiased | 594.05 | 592.17 | -1.8739 |
| 8 | 20 | Unbiased | 598.04 | 595.3 | -2.7484 |
| 9 | 20 | Unbiased | 599.04 | 598.17 | -0.8744 |
| 10 | 20 | Unbiased | 599.04 | 596.04 | -2.9982 |
| 11 | 30 | Bias | 601.17 | 601.54 | 0.3765 |
| 12 | 30 | Bias | 600.29 | 599.67 | -0.623 |
| 13 | 30 | Bias | 599.04 | 597.92 | -1.1226 |
| 14 | 30 | Bias | 599.67 | 597.3 | -2.3718 |
| 15 | 30 | Bias | 597.04 | 598.17 | 1.126 |
| 16 | 30 | Unbiased | 597.04 | 595.55 | -1.4974 |
| 17 | 30 | Unbiased | 599.17 | 596.8 | -2.3719 |
| 18 | 30 | Unbiased | 599.04 | 600.04 | 1.0011 |
| 19 | 30 | Unbiased | 599.04 | 600.04 | 1.0011 |
| 20 | 30 | Unbiased | 599.54 | 599.29 | -0.2481 |
| 21 | 50 | Bias | 598.29 | 598.42 | 0.1267 |
| 22 | 50 | Bias | 597.17 | 597.42 | 0.2516 |
| 23 | 50 | Bias | 598.92 | 596.17 | -2.7467 |
| 24 | 50 | Bias | 597.29 | 603.04 | 5.7483 |
| 25 | 50 | Bias | 601.67 | 600.17 | -1.499 |
| 26 | 50 | Unbiased | 598.79 | 591.8 | -6.9957 |
| 27 | 50 | Unbiased | 597.67 | 590.8 | -6.8708 |
| 28 | 50 | Unbiased | 603.42 | 596.04 | -7.3705 |
| 29 | 50 | Unbiased | 599.54 | 591.67 | -7.8702 |
| 30 | 50 | Unbiased | 595.17 | 588.55 | -6.621 |
| 31 | 0 | Correlation | 601.67 | 601.67 | 0 |
| 32 | 0 | Correlation | 597.92 | 597.79 | -0.1249 |
| 33 | 0 | Correlation | 598.42 | 598.17 | -0.2498 |
| 34 | 0 | Correlation | 595.92 | 602.17 | 6.2463 |

## Test Statistics (mV)
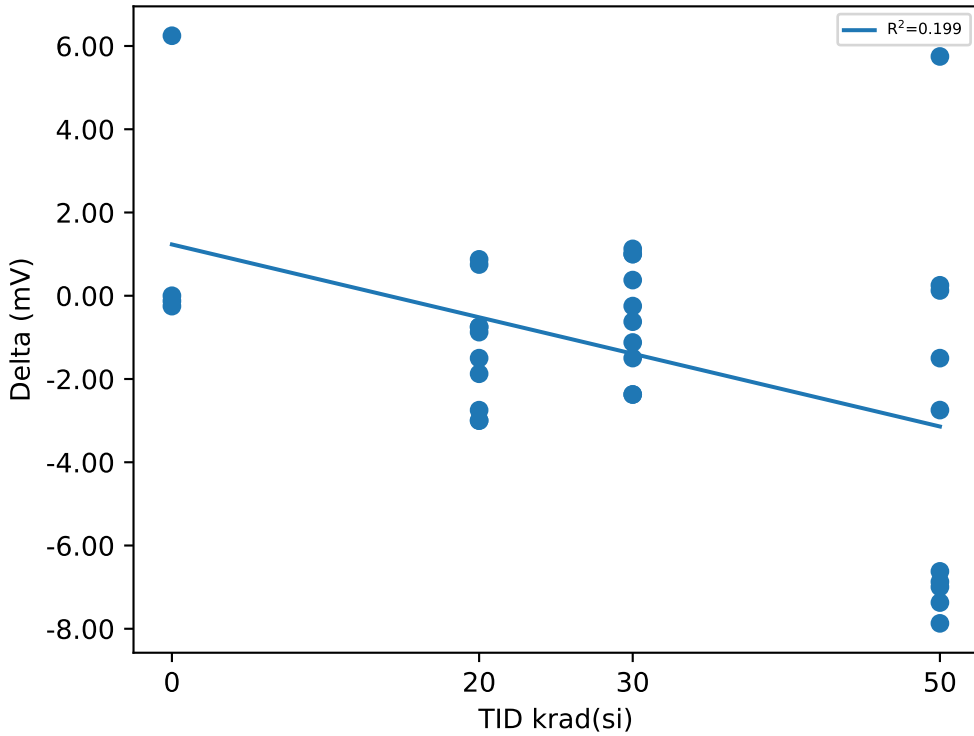
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 595.92 | 598.48 | 601.67 | 2.3823 | 597.79 | 599.95 | 602.17 | 2.2862 | -0.2498 | 1.4679 | 6.2463 | 3.1872 |
| 20 | 594.05 | 599.38 | 603.79 | 2.786 | 592.17 | 598.09 | 604.66 | 3.4435 | -2.9982 | -1.2867 | 0.8746 | 1.4122 |
| 30 | 597.04 | 599.11 | 601.17 | 1.277 | 595.55 | 598.63 | 601.54 | 1.8065 | -2.3719 | -0.47301 | 1.126 | 1.3491 |
| 50 | 595.17 | 598.79 | 603.42 | 2.3504 | 588.55 | 595.41 | 603.04 | 4.5987 | -7.8702 | -3.3847 | 5.7483 | 4.5289 |

# Device Test: 19.13  VTH_DOWN(_LEVEL|FALL/DOWNb/7/3/0/0/0/@VTH_DOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 483.0, Upper Limit = 512.0 (mV))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 504.23 | 505.35 | 1.1244 |
| 2 | 20 | Bias | 500.48 | 498.6 | -1.8739 |
| 3 | 20 | Bias | 498.48 | 499.35 | 0.8744 |
| 4 | 20 | Bias | 502.85 | 502.35 | -0.4996 |
| 5 | 20 | Bias | 500.85 | 498.98 | -1.8738 |
| 6 | 20 | Unbiased | 502.23 | 498.85 | -3.3729 |
| 7 | 20 | Unbiased | 503.23 | 501.1 | -2.1237 |
| 8 | 20 | Unbiased | 500.35 | 499.35 | -0.9994 |
| 9 | 20 | Unbiased | 499.73 | 498.85 | -0.8744 |
| 10 | 20 | Unbiased | 502.85 | 500.6 | -2.2486 |
| 11 | 30 | Bias | 501.48 | 502.1 | 0.6261 |
| 12 | 30 | Bias | 500.85 | 500.1 | -0.748 |
| 13 | 30 | Bias | 501.23 | 498.86 | -2.3721 |
| 14 | 30 | Bias | 500.23 | 499.6 | -0.6232 |
| 15 | 30 | Bias | 499.85 | 499.35 | -0.4981 |
| 16 | 30 | Unbiased | 497.85 | 499.73 | 1.8754 |
| 17 | 30 | Unbiased | 499.48 | 498.36 | -1.1229 |
| 18 | 30 | Unbiased | 499.85 | 500.48 | 0.6262 |
| 19 | 30 | Unbiased | 500.1 | 500.23 | 0.1265 |
| 20 | 30 | Unbiased | 500.23 | 499.85 | -0.3734 |
| 21 | 50 | Bias | 502.1 | 498.73 | -3.3715 |
| 22 | 50 | Bias | 501.1 | 500.85 | -0.2483 |
| 23 | 50 | Bias | 500.85 | 500.85 | 0.0016 |
| 24 | 50 | Bias | 497.73 | 504.73 | 6.9973 |
| 25 | 50 | Bias | 501.85 | 500.35 | -1.4992 |
| 26 | 50 | Unbiased | 499.1 | 492.11 | -6.9958 |
| 27 | 50 | Unbiased | 498.35 | 491.48 | -6.8709 |
| 28 | 50 | Unbiased | 504.1 | 496.61 | -7.4954 |
| 29 | 50 | Unbiased | 500.1 | 492.36 | -7.7453 |
| 30 | 50 | Unbiased | 498.73 | 491.36 | -7.3705 |
| 31 | 0 | Correlation | 502.1 | 502.1 | 0 |
| 32 | 0 | Correlation | 499.35 | 499.1 | -0.2498 |
| 33 | 0 | Correlation | 502.98 | 502.85 | -0.1249 |
| 34 | 0 | Correlation | 498.85 | 502.85 | 3.9975 |

## Test Statistics (mV)
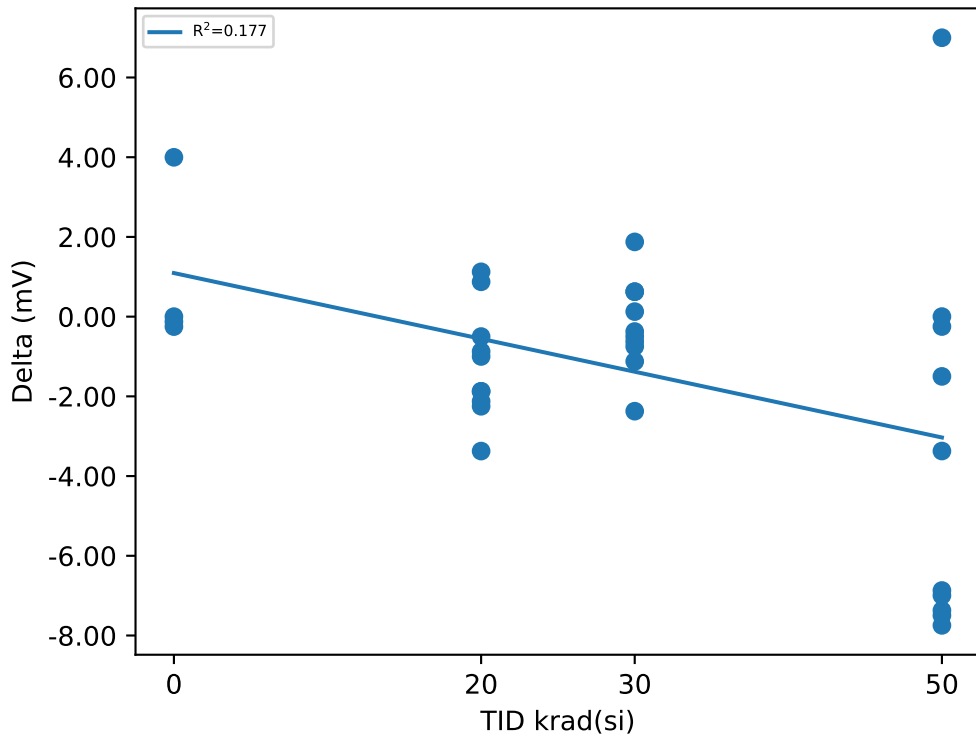
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 498.85 | 500.82 | 502.98 | 2.0256 | 499.1 | 501.73 | 502.85 | 1.7843 | -0.2498 | 0.9057 | 3.9975 | 2.0637 |
| 20 | 498.48 | 501.53 | 504.23 | 1.8143 | 498.6 | 500.34 | 505.35 | 2.1351 | -3.3729 | -1.1868 | 1.1244 | 1.4112 |
| 30 | 497.85 | 500.12 | 501.48 | 1.0174 | 498.36 | 499.87 | 502.1 | 1.0123 | -2.3721 | -0.24835 | 1.8754 | 1.151 |
| 50 | 497.73 | 500.4 | 504.1 | 1.9798 | 491.36 | 496.94 | 504.73 | 4.8479 | -7.7453 | -3.4598 | 6.9973 | 4.8256 |

# Device Test: 19.14  VTH_SENSE(_LEVEL|RISE/SENSE1/7/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

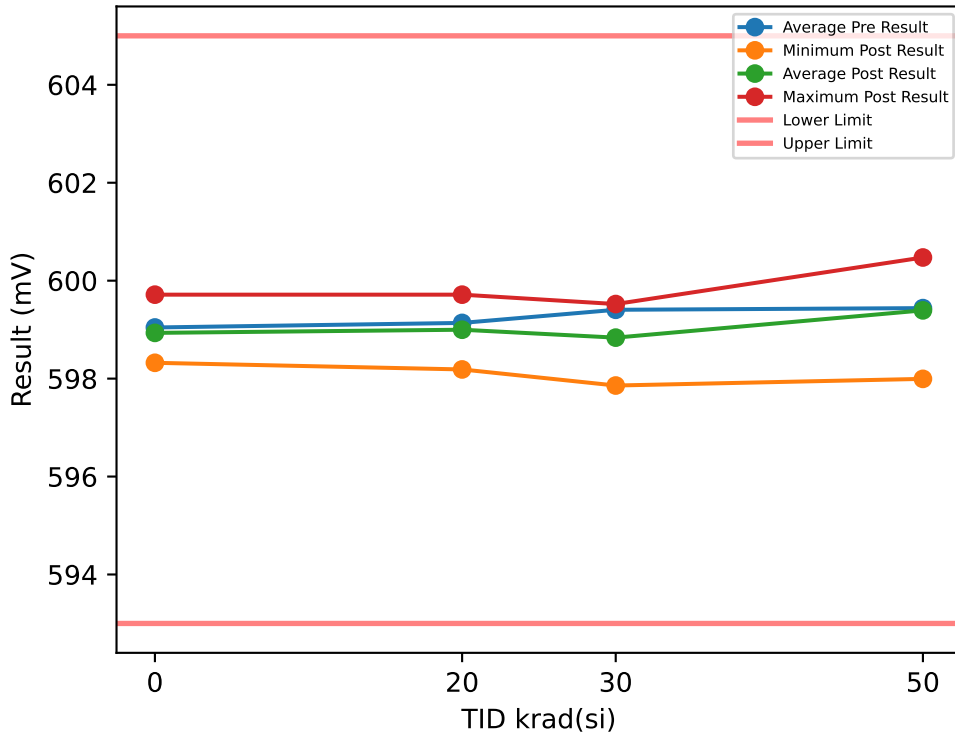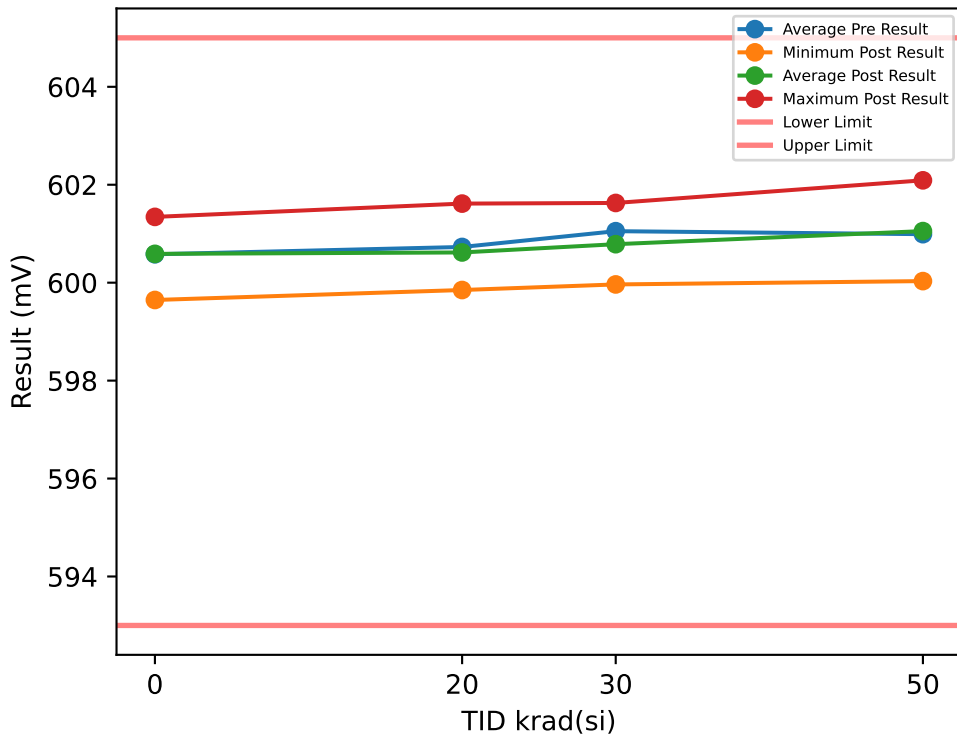| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 599 | 599.1 | 0.1018 |
| 2 | 20 | Bias | 598.46 | 598.59 | 0.1357 |
| 3 | 20 | Bias | 599.07 | 599.27 | 0.2036 |
| 4 | 20 | Bias | 600.19 | 599.71 | -0.4751 |
| 5 | 20 | Bias | 598.39 | 598.19 | -0.2036 |
| 6 | 20 | Unbiased | 599.38 | 599.41 | 0.034 |
| 7 | 20 | Unbiased | 598.76 | 598.9 | 0.1358 |
| 8 | 20 | Unbiased | 599.34 | 599 | -0.3394 |
| 9 | 20 | Unbiased | 599.38 | 598.83 | -0.543 |
| 10 | 20 | Unbiased | 599.41 | 598.97 | -0.4412 |
| 11 | 30 | Bias | 598.73 | 597.86 | -0.8714 |
| 12 | 30 | Bias | 599.38 | 597.99 | -1.3804 |
| 13 | 30 | Bias | 598.76 | 599.25 | 0.4869 |
| 14 | 30 | Bias | 600.02 | 598.78 | -1.2442 |
| 15 | 30 | Bias | 599.65 | 599.52 | -0.1238 |
| 16 | 30 | Unbiased | 600.02 | 599.42 | -0.599 |
| 17 | 30 | Unbiased | 599.21 | 599.08 | -0.1241 |
| 18 | 30 | Unbiased | 598.93 | 598.84 | -0.0903 |
| 19 | 30 | Unbiased | 599.38 | 599.25 | -0.124 |
| 20 | 30 | Unbiased | 599.99 | 598.37 | -1.6177 |
| 21 | 50 | Bias | 598.97 | 600.34 | 1.3698 |
| 22 | 50 | Bias | 599.38 | 597.99 | -1.3804 |
| 23 | 50 | Bias | 600.33 | 600.17 | -0.1575 |
| 24 | 50 | Bias | 599.85 | 600.47 | 0.6233 |
| 25 | 50 | Bias | 600.43 | 600.36 | -0.0679 |
| 26 | 50 | Unbiased | 598.87 | 598.56 | -0.3054 |
| 27 | 50 | Unbiased | 599.27 | 598.8 | -0.4751 |
| 28 | 50 | Unbiased | 598.97 | 599.27 | 0.3054 |
| 29 | 50 | Unbiased | 598.8 | 598.59 | -0.2037 |
| 30 | 50 | Unbiased | 599.54 | 599.38 | -0.1697 |
| 31 | 0 | Correlation | 599.1 | 598.9 | -0.2036 |
| 32 | 0 | Correlation | 599.71 | 599.71 | 0 |
| 33 | 0 | Correlation | 598.93 | 598.8 | -0.1357 |
| 34 | 0 | Correlation | 598.42 | 598.32 | -0.1019 |

## Test Statistics (mV)
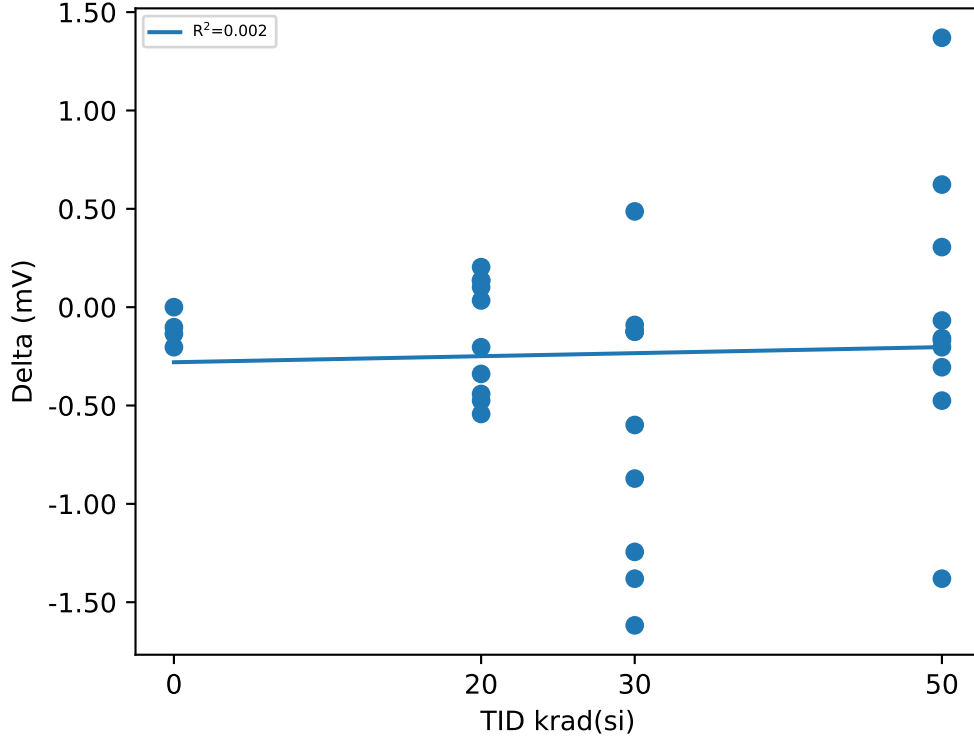
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 598.42 | 599.04 | 599.71 | 0.53183 | 598.32 | 598.93 | 599.71 | 0.57796 | -0.2036 | -0.1103 | 0 | 0.084827 |
| 20 | 598.39 | 599.14 | 600.19 | 0.52868 | 598.19 | 599 | 599.71 | 0.42523 | -0.543 | -0.13914 | 0.2036 | 0.29214 |
| 30 | 598.73 | 599.41 | 600.02 | 0.50349 | 597.86 | 598.84 | 599.52 | 0.58723 | -1.6177 | -0.5688 | 0.4869 | 0.68675 |
| 50 | 598.8 | 599.44 | 600.43 | 0.59225 | 597.99 | 599.39 | 600.47 | 0.89742 | -1.3804 | -0.04612 | 1.3698 | 0.71965 |

# Device Test: 19.15  VTH_SENSE(_LEVEL|FALL/SENSE1/7/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.6 | 600.66 | 0.0679 |
| 2 | 20 | Bias | 600.19 | 600.19 | 0 |
| 3 | 20 | Bias | 600.53 | 600.97 | 0.4412 |
| 4 | 20 | Bias | 601.75 | 601.62 | -0.1358 |
| 5 | 20 | Bias | 599.88 | 599.85 | -0.034 |
| 6 | 20 | Unbiased | 600.97 | 600.87 | -0.1018 |
| 7 | 20 | Unbiased | 600.26 | 600.33 | 0.0679 |
| 8 | 20 | Unbiased | 601.04 | 600.66 | -0.3733 |
| 9 | 20 | Unbiased | 601.04 | 600.46 | -0.577 |
| 10 | 20 | Unbiased | 601.04 | 600.56 | -0.4752 |
| 11 | 30 | Bias | 600.46 | 599.96 | -0.4969 |
| 12 | 30 | Bias | 601.07 | 600.17 | -0.9041 |
| 13 | 30 | Bias | 600.5 | 600.98 | 0.4877 |
| 14 | 30 | Bias | 601.62 | 600.78 | -0.8359 |
| 15 | 30 | Bias | 601.21 | 601.63 | 0.4202 |
| 16 | 30 | Unbiased | 601.51 | 601.42 | -0.0889 |
| 17 | 30 | Unbiased | 600.87 | 601.32 | 0.454 |
| 18 | 30 | Unbiased | 600.73 | 600.71 | -0.0214 |
| 19 | 30 | Unbiased | 600.87 | 600.47 | -0.3949 |
| 20 | 30 | Unbiased | 601.68 | 600.41 | -1.2773 |
| 21 | 50 | Bias | 600.43 | 601.76 | 1.3366 |
| 22 | 50 | Bias | 600.83 | 600.03 | -0.8024 |
| 23 | 50 | Bias | 601.95 | 601.49 | -0.4622 |
| 24 | 50 | Bias | 601.45 | 602 | 0.5562 |
| 25 | 50 | Bias | 601.92 | 602.09 | 0.1697 |
| 26 | 50 | Unbiased | 600.39 | 600.33 | -0.0679 |
| 27 | 50 | Unbiased | 600.66 | 600.56 | -0.1019 |
| 28 | 50 | Unbiased | 600.87 | 600.66 | -0.2036 |
| 29 | 50 | Unbiased | 600.33 | 600.46 | 0.1357 |
| 30 | 50 | Unbiased | 601.07 | 601.14 | 0.0679 |
| 31 | 0 | Correlation | 600.46 | 600.73 | 0.2715 |
| 32 | 0 | Correlation | 601.51 | 601.34 | -0.1697 |
| 33 | 0 | Correlation | 600.46 | 600.63 | 0.1697 |
| 34 | 0 | Correlation | 599.88 | 599.65 | -0.2376 |

## Test Statistics (mV)
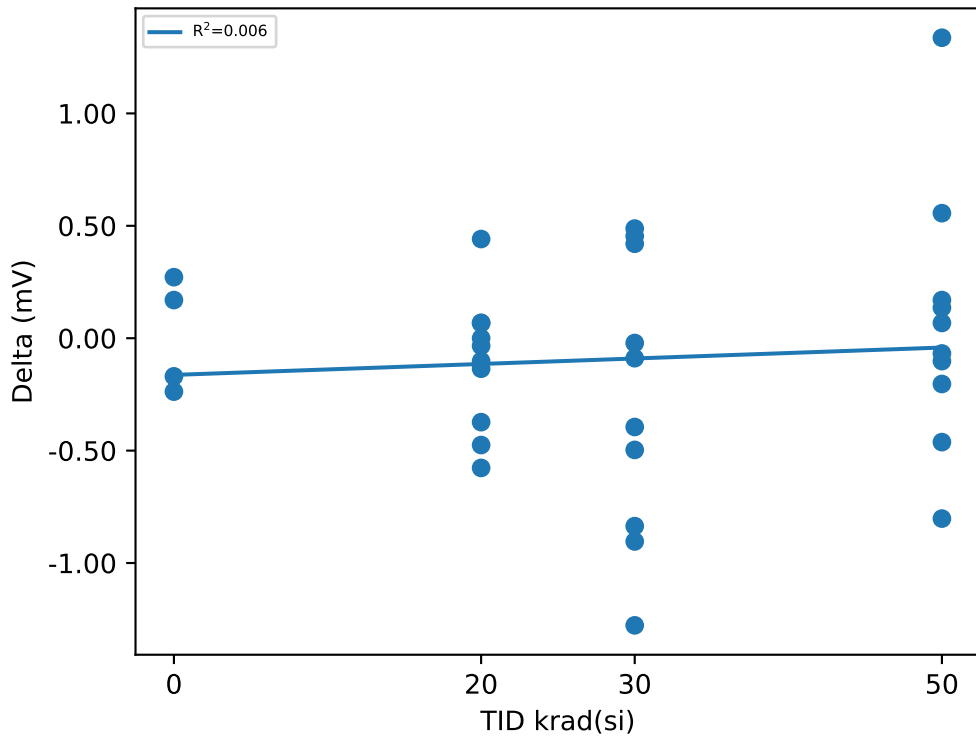
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 599.88 | 600.58 | 601.51 | 0.67904 | 599.65 | 600.59 | 601.34 | 0.70232 | -0.2376 | 0.008475 | 0.2715 | 0.24998 |
| 20 | 599.88 | 600.73 | 601.75 | 0.54501 | 599.85 | 600.62 | 601.62 | 0.47975 | -0.577 | -0.11201 | 0.4412 | 0.29935 |
| 30 | 600.46 | 601.05 | 601.68 | 0.44486 | 599.96 | 600.79 | 601.63 | 0.5526 | -1.2773 | -0.26575 | 0.4877 | 0.62121 |
| 50 | 600.33 | 600.99 | 601.95 | 0.60269 | 600.03 | 601.05 | 602.09 | 0.74491 | -0.8024 | 0.06281 | 1.3366 | 0.57948 |

# Device Test: 19.16  VTH_SENSE(_LEVEL|RISE/SENSE2/7/3/0/0/0/@VTH_SENSE )

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

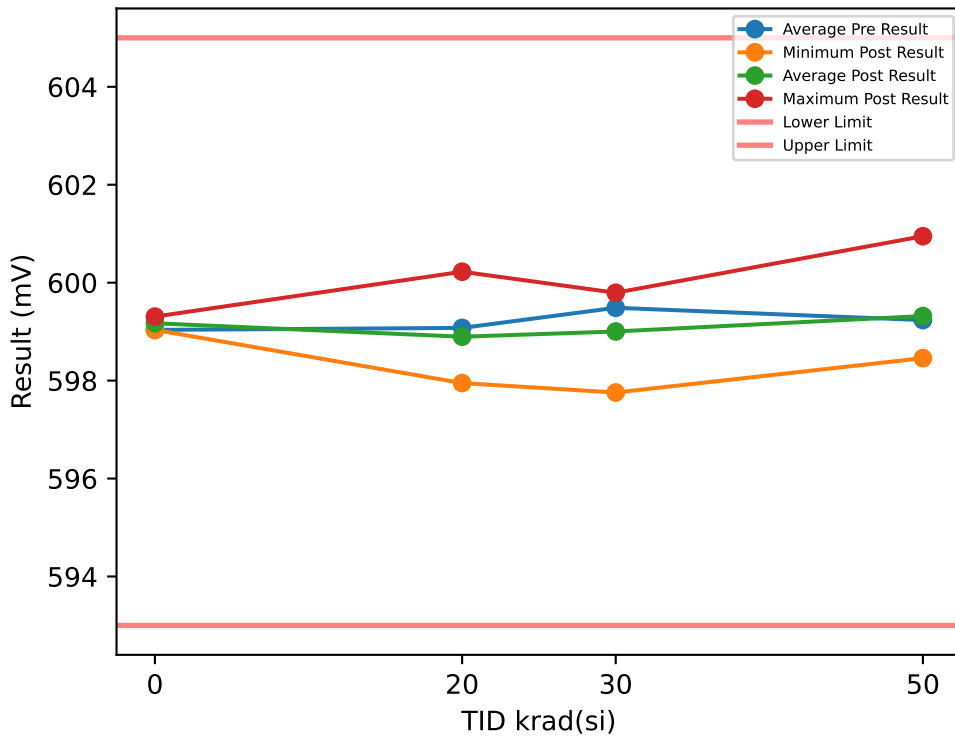| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 598.7 | 598.66 | -0.034 |
| 2 | 20 | Bias | 598.56 | 598.09 | -0.4751 |
| 3 | 20 | Bias | 598.46 | 598.63 | 0.1697 |
| 4 | 20 | Bias | 600.73 | 600.22 | -0.509 |
| 5 | 20 | Bias | 598.05 | 597.95 | -0.1018 |
| 6 | 20 | Unbiased | 599.48 | 599.54 | 0.0679 |
| 7 | 20 | Unbiased | 599.75 | 599.88 | 0.1358 |
| 8 | 20 | Unbiased | 599.17 | 598.76 | -0.4073 |
| 9 | 20 | Unbiased | 598.97 | 598.66 | -0.3055 |
| 10 | 20 | Unbiased | 598.9 | 598.56 | -0.3394 |
| 11 | 30 | Bias | 599.48 | 598.81 | -0.6672 |
| 12 | 30 | Bias | 599.38 | 598.74 | -0.6333 |
| 13 | 30 | Bias | 598.53 | 598.91 | 0.3848 |
| 14 | 30 | Bias | 599.85 | 598.37 | -1.4819 |
| 15 | 30 | Bias | 599.78 | 599.79 | 0.012 |
| 16 | 30 | Unbiased | 599.51 | 599.59 | 0.0798 |
| 17 | 30 | Unbiased | 599.61 | 598.98 | -0.6332 |
| 18 | 30 | Unbiased | 599.41 | 599.45 | 0.0457 |
| 19 | 30 | Unbiased | 598.53 | 599.62 | 1.0979 |
| 20 | 30 | Unbiased | 600.8 | 597.76 | -3.0435 |
| 21 | 50 | Bias | 599.41 | 600.95 | 1.5398 |
| 22 | 50 | Bias | 599.44 | 598.61 | -0.8371 |
| 23 | 50 | Bias | 599.68 | 599.76 | 0.0799 |
| 24 | 50 | Bias | 599.54 | 599.42 | -0.1239 |
| 25 | 50 | Bias | 599.68 | 600.02 | 0.3393 |
| 26 | 50 | Unbiased | 598.9 | 598.87 | -0.034 |
| 27 | 50 | Unbiased | 599.17 | 598.97 | -0.2036 |
| 28 | 50 | Unbiased | 598.73 | 598.66 | -0.0679 |
| 29 | 50 | Unbiased | 598.63 | 598.46 | -0.1697 |
| 30 | 50 | Unbiased | 599.17 | 599.48 | 0.3054 |
| 31 | 0 | Correlation | 599.21 | 599.27 | 0.0679 |
| 32 | 0 | Correlation | 599.54 | 599.31 | -0.2376 |
| 33 | 0 | Correlation | 598.73 | 599.07 | 0.3394 |
| 34 | 0 | Correlation | 598.66 | 599.04 | 0.3733 |

### Test Statistics (mV)
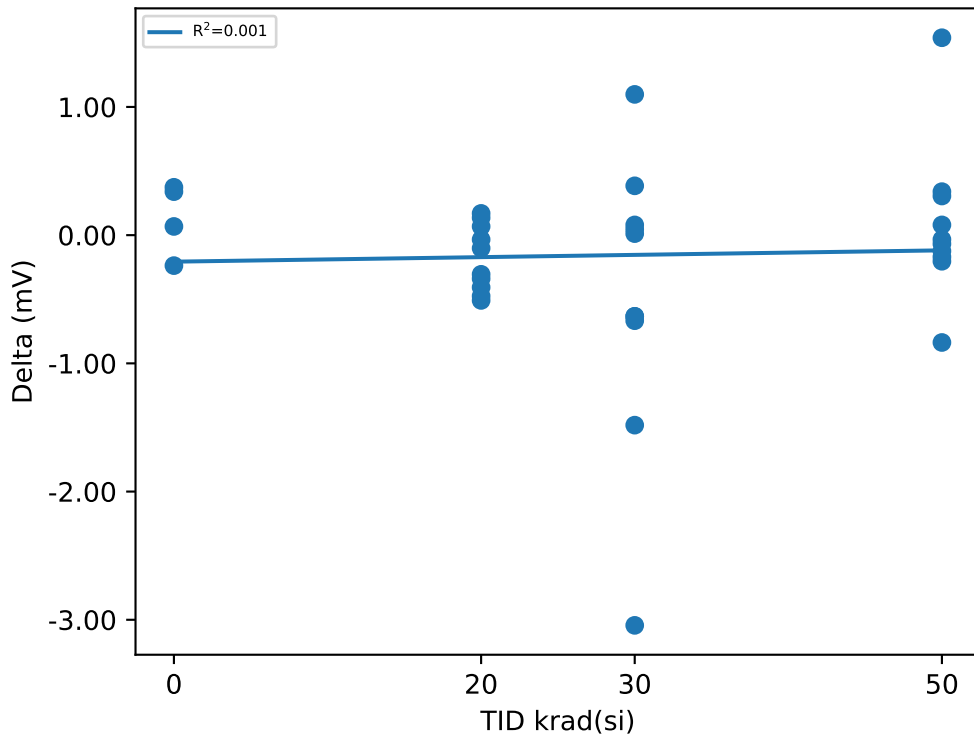
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.66 | 599.04 | 599.54 | 0.41657 | 599.04 | 599.17 | 599.31 | 0.13854 | -0.2376 | 0.13575 | 0.3733 | 0.28396 |
| 20 | 598.05 | 599.08 | 600.73 | 0.76371 | 597.95 | 598.9 | 600.22 | 0.74706 | -0.509 | -0.17987 | 0.1697 | 0.258 |
| 30 | 598.53 | 599.49 | 600.8 | 0.65182 | 597.76 | 599 | 599.79 | 0.63527 | -3.0435 | -0.48389 | 1.0979 | 1.1415 |
| 50 | 598.63 | 599.24 | 599.68 | 0.38145 | 598.46 | 599.32 | 600.95 | 0.7736 | -0.8371 | 0.08282 | 1.5398 | 0.60638 |

# Device Test: 19.17  VTH_SENSE(_LEVEL|FALL/SENSE2/7/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

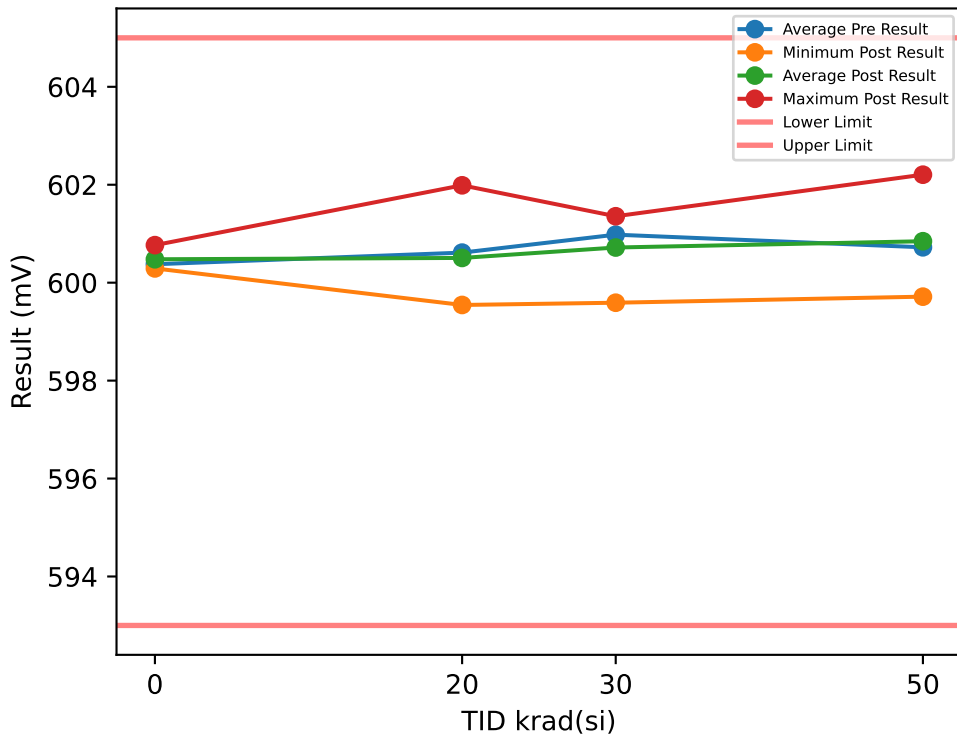| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.19 | 600.22 | 0.034 |
| 2 | 20 | Bias | 599.95 | 599.99 | 0.0339 |
| 3 | 20 | Bias | 599.95 | 600.26 | 0.3054 |
| 4 | 20 | Bias | 601.95 | 601.99 | 0.034 |
| 5 | 20 | Bias | 599.65 | 599.54 | -0.1018 |
| 6 | 20 | Unbiased | 601.04 | 601.14 | 0.1018 |
| 7 | 20 | Unbiased | 601.17 | 601.34 | 0.1697 |
| 8 | 20 | Unbiased | 600.56 | 600.16 | -0.4072 |
| 9 | 20 | Unbiased | 600.94 | 600.09 | -0.8485 |
| 10 | 20 | Unbiased | 600.73 | 600.33 | -0.4072 |
| 11 | 30 | Bias | 601 | 600.54 | -0.4627 |
| 12 | 30 | Bias | 600.77 | 600.61 | -0.1572 |
| 13 | 30 | Bias | 599.82 | 600.78 | 0.9628 |
| 14 | 30 | Bias | 601.38 | 600.24 | -1.1417 |
| 15 | 30 | Bias | 601.31 | 601.36 | 0.0468 |
| 16 | 30 | Unbiased | 601.07 | 601.32 | 0.2504 |
| 17 | 30 | Unbiased | 601.04 | 600.61 | -0.4287 |
| 18 | 30 | Unbiased | 601.24 | 601.02 | -0.2249 |
| 19 | 30 | Unbiased | 599.99 | 601.12 | 1.1327 |
| 20 | 30 | Unbiased | 602.19 | 599.59 | -2.6013 |
| 21 | 50 | Bias | 600.94 | 602.21 | 1.269 |
| 22 | 50 | Bias | 600.9 | 600.41 | -0.4967 |
| 23 | 50 | Bias | 601.14 | 601.56 | 0.4202 |
| 24 | 50 | Bias | 601 | 601.19 | 0.1825 |
| 25 | 50 | Bias | 601.38 | 601.45 | 0.0678 |
| 26 | 50 | Unbiased | 600.5 | 600.33 | -0.1697 |
| 27 | 50 | Unbiased | 600.66 | 600.46 | -0.2037 |
| 28 | 50 | Unbiased | 600.29 | 600.26 | -0.0339 |
| 29 | 50 | Unbiased | 599.92 | 599.71 | -0.2036 |
| 30 | 50 | Unbiased | 600.5 | 600.9 | 0.4072 |
| 31 | 0 | Correlation | 600.66 | 600.5 | -0.1697 |
| 32 | 0 | Correlation | 600.8 | 600.77 | -0.0339 |
| 33 | 0 | Correlation | 600.19 | 600.29 | 0.1018 |
| 34 | 0 | Correlation | 599.85 | 600.36 | 0.5091 |

## Test Statistics (mV)
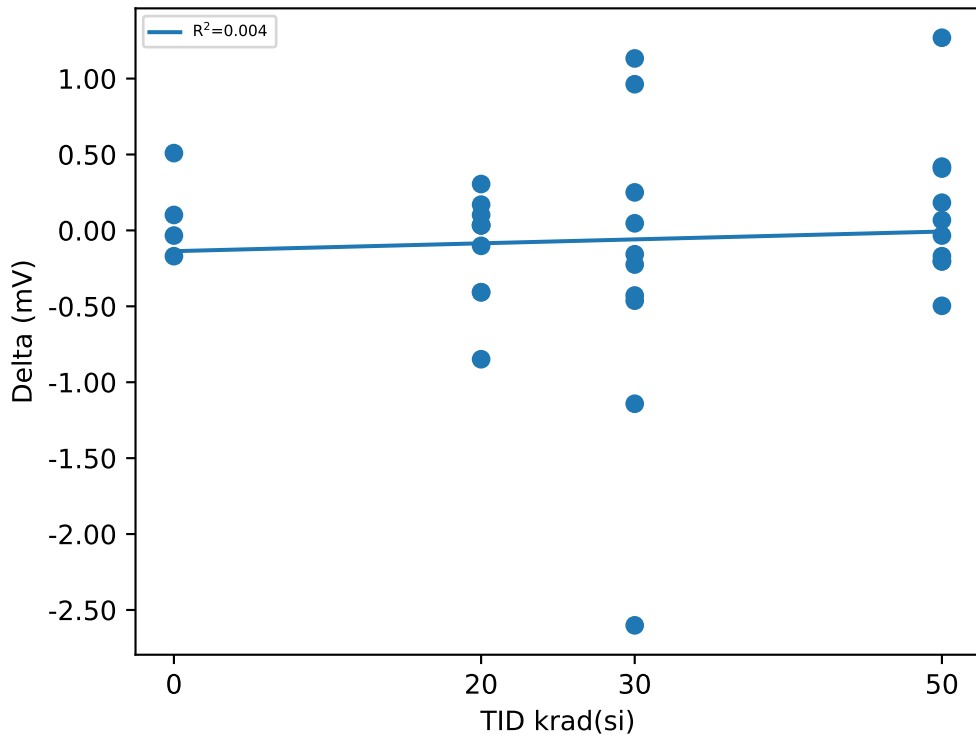
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 599.85 | 600.38 | 600.8 | 0.43773 | 600.29 | 600.48 | 600.77 | 0.21015 | -0.1697 | 0.10182 | 0.5091 | 0.29327 |
| 20 | 599.65 | 600.61 | 601.95 | 0.69942 | 599.54 | 600.51 | 601.99 | 0.74287 | -0.8485 | -0.10859 | 0.3054 | 0.3464 |
| 30 | 599.82 | 600.98 | 602.19 | 0.68348 | 599.59 | 600.72 | 601.36 | 0.53588 | -2.6013 | -0.26238 | 1.1327 | 1.0609 |
| 50 | 599.92 | 600.72 | 601.38 | 0.43464 | 599.71 | 600.85 | 602.21 | 0.75098 | -0.4967 | 0.12391 | 1.269 | 0.49404 |

# Device Test: 19.18  VTH_SENSE(_LEVEL|RISE/SENSE3/7/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

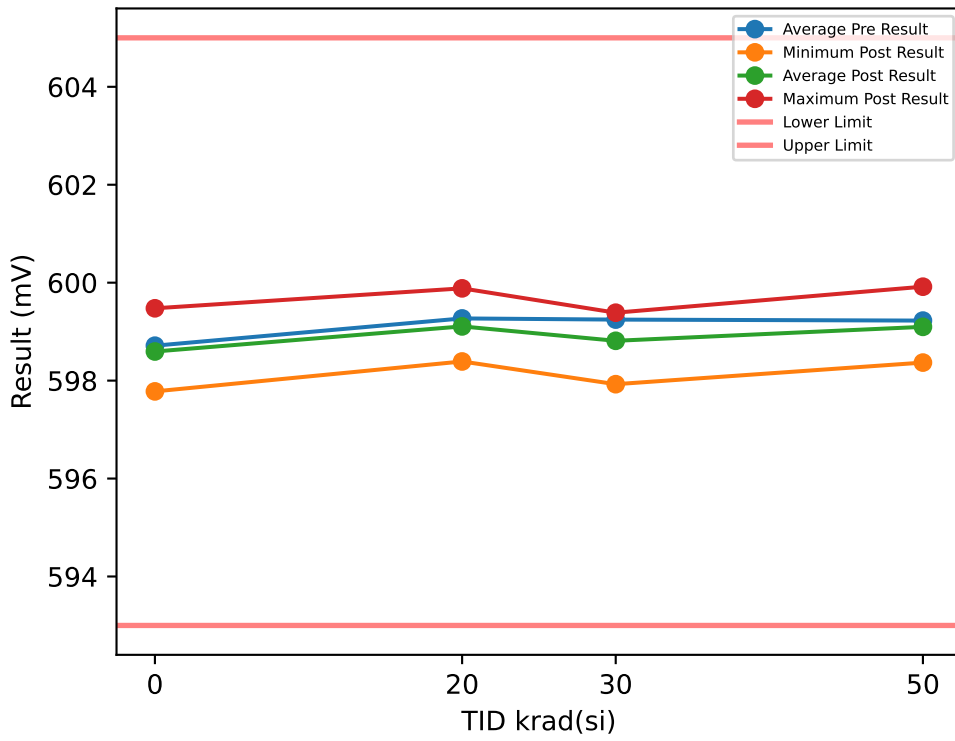| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 599.65 | 599.85 | 0.2036 |
| 2 | 20 | Bias | 598.53 | 598.39 | -0.1358 |
| 3 | 20 | Bias | 599.04 | 599.24 | 0.2037 |
| 4 | 20 | Bias | 600.26 | 599.88 | -0.3733 |
| 5 | 20 | Bias | 598.53 | 598.59 | 0.0678 |
| 6 | 20 | Unbiased | 598.73 | 598.76 | 0.0339 |
| 7 | 20 | Unbiased | 599.1 | 599.17 | 0.0679 |
| 8 | 20 | Unbiased | 599.99 | 599.61 | -0.3733 |
| 9 | 20 | Unbiased | 599.58 | 598.97 | -0.6108 |
| 10 | 20 | Unbiased | 599.31 | 598.59 | -0.7127 |
| 11 | 30 | Bias | 600.09 | 597.93 | -2.1609 |
| 12 | 30 | Bias | 599.07 | 599.39 | 0.3172 |
| 13 | 30 | Bias | 598.8 | 598.84 | 0.0454 |
| 14 | 30 | Bias | 599.31 | 598.84 | -0.4636 |
| 15 | 30 | Bias | 599.48 | 599.32 | -0.1579 |
| 16 | 30 | Unbiased | 599.75 | 599.29 | -0.4633 |
| 17 | 30 | Unbiased | 598.93 | 599.12 | 0.1814 |
| 18 | 30 | Unbiased | 598.97 | 598.64 | -0.328 |
| 19 | 30 | Unbiased | 598.83 | 598.81 | -0.0224 |
| 20 | 30 | Unbiased | 599.24 | 597.96 | -1.2786 |
| 21 | 50 | Bias | 599.31 | 599.25 | -0.0561 |
| 22 | 50 | Bias | 598.93 | 598.37 | -0.5656 |
| 23 | 50 | Bias | 599.48 | 599.62 | 0.1477 |
| 24 | 50 | Bias | 599.58 | 599.15 | -0.4295 |
| 25 | 50 | Bias | 600.02 | 599.92 | -0.1018 |
| 26 | 50 | Unbiased | 598.87 | 598.59 | -0.2715 |
| 27 | 50 | Unbiased | 599.78 | 599.27 | -0.5091 |
| 28 | 50 | Unbiased | 598.93 | 598.9 | -0.0339 |
| 29 | 50 | Unbiased | 598.73 | 599.14 | 0.4072 |
| 30 | 50 | Unbiased | 598.63 | 598.76 | 0.1357 |
| 31 | 0 | Correlation | 598.66 | 598.7 | 0.034 |
| 32 | 0 | Correlation | 599.41 | 599.48 | 0.0678 |
| 33 | 0 | Correlation | 598.49 | 598.42 | -0.0678 |
| 34 | 0 | Correlation | 598.29 | 597.78 | -0.5091 |

## Test Statistics (mV)
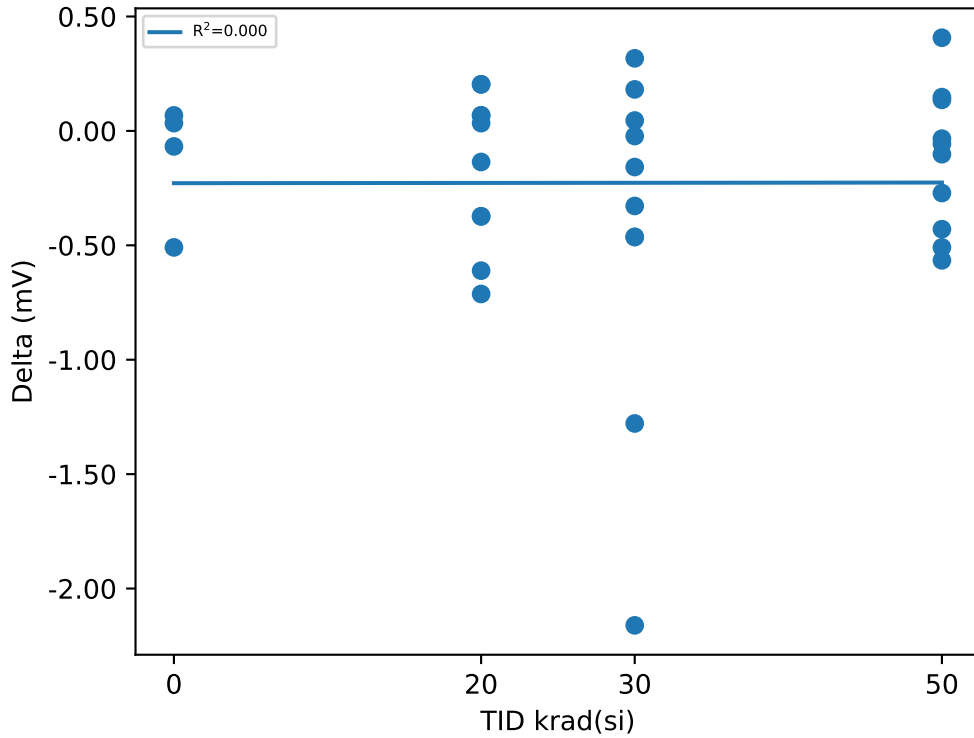
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.29 | 598.71 | 599.41 | 0.48831 | 597.78 | 598.59 | 599.48 | 0.70266 | -0.5091 | -0.11877 | 0.0678 | 0.26652 |
| 20 | 598.53 | 599.27 | 600.26 | 0.59677 | 598.39 | 599.11 | 599.88 | 0.53839 | -0.7127 | -0.1629 | 0.2037 | 0.33435 |
| 30 | 598.8 | 599.25 | 600.09 | 0.42108 | 597.93 | 598.81 | 599.39 | 0.521 | -2.1609 | -0.43307 | 0.3172 | 0.75476 |
| 50 | 598.63 | 599.23 | 600.02 | 0.47572 | 598.37 | 599.1 | 599.92 | 0.46486 | -0.5656 | -0.12769 | 0.4072 | 0.31533 |

## Device Test: 19.19  VTH_SENSE(_LEVEL|FALL/SENSE3/7/3/0/0/0/@VTH_SENSE )

### TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

### TID vs Post - Pre Exposure Delta



$R^2$=0.000

### Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

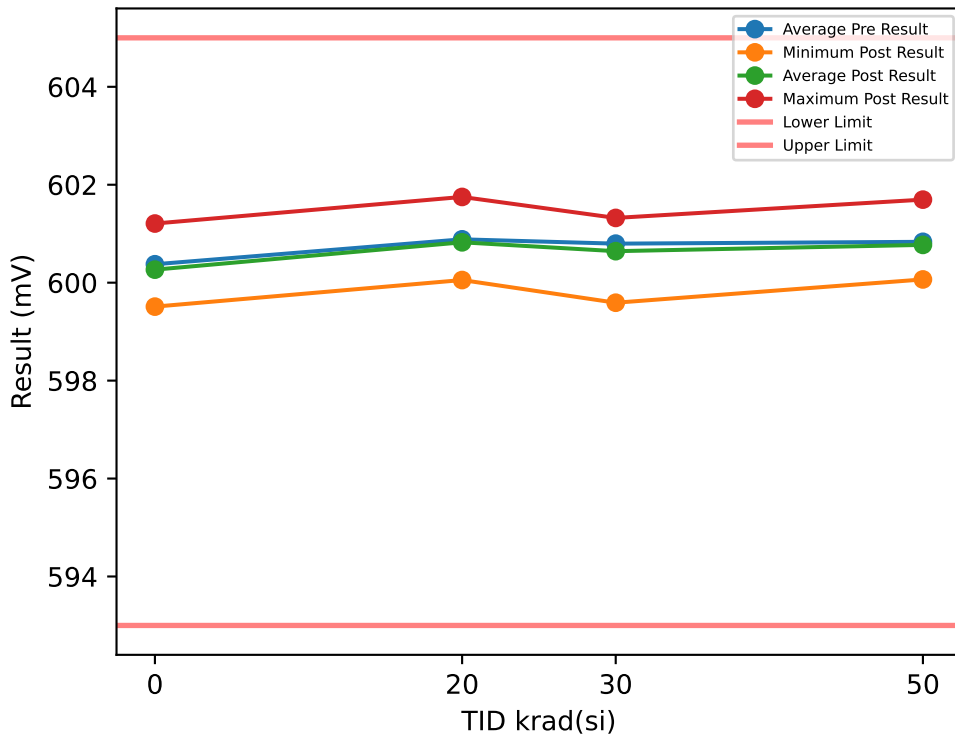| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 601.17 | 601.38 | 0.2037 |
| 2 | 20 | Bias | 600.33 | 600.29 | -0.034 |
| 3 | 20 | Bias | 600.66 | 600.83 | 0.1697 |
| 4 | 20 | Bias | 601.72 | 601.75 | 0.034 |
| 5 | 20 | Bias | 600.26 | 600.05 | -0.2036 |
| 6 | 20 | Unbiased | 600.36 | 600.53 | 0.1697 |
| 7 | 20 | Unbiased | 600.9 | 600.94 | 0.034 |
| 8 | 20 | Unbiased | 601.51 | 601.34 | -0.1697 |
| 9 | 20 | Unbiased | 601.21 | 600.7 | -0.5091 |
| 10 | 20 | Unbiased | 600.73 | 600.43 | -0.3054 |
| 11 | 30 | Bias | 601.72 | 599.59 | -2.1261 |
| 12 | 30 | Bias | 600.66 | 601.32 | 0.6576 |
| 13 | 30 | Bias | 600.43 | 600.78 | 0.3519 |
| 14 | 30 | Bias | 600.97 | 600.61 | -0.3608 |
| 15 | 30 | Bias | 600.83 | 600.98 | 0.1483 |
| 16 | 30 | Unbiased | 601.17 | 601.05 | -0.1231 |
| 17 | 30 | Unbiased | 600.43 | 601.02 | 0.5896 |
| 18 | 30 | Unbiased | 600.6 | 600.61 | 0.0125 |
| 19 | 30 | Unbiased | 600.29 | 600.58 | 0.284 |
| 20 | 30 | Unbiased | 600.87 | 599.9 | -0.9721 |
| 21 | 50 | Bias | 600.66 | 600.81 | 0.1483 |
| 22 | 50 | Bias | 600.8 | 600.07 | -0.7344 |
| 23 | 50 | Bias | 600.97 | 601.7 | 0.7257 |
| 24 | 50 | Bias | 601.17 | 601.02 | -0.157 |
| 25 | 50 | Bias | 601.51 | 601.55 | 0.034 |
| 26 | 50 | Unbiased | 600.77 | 600.33 | -0.4412 |
| 27 | 50 | Unbiased | 601.17 | 601 | -0.1697 |
| 28 | 50 | Unbiased | 600.6 | 600.6 | 0 |
| 29 | 50 | Unbiased | 600.53 | 600.36 | -0.1697 |
| 30 | 50 | Unbiased | 600.16 | 600.29 | 0.1357 |
| 31 | 0 | Correlation | 600.29 | 600.33 | 0.034 |
| 32 | 0 | Correlation | 601.11 | 601.21 | 0.1018 |
| 33 | 0 | Correlation | 600.16 | 600.02 | -0.1358 |
| 34 | 0 | Correlation | 599.95 | 599.51 | -0.4412 |

### Test Statistics (mV)
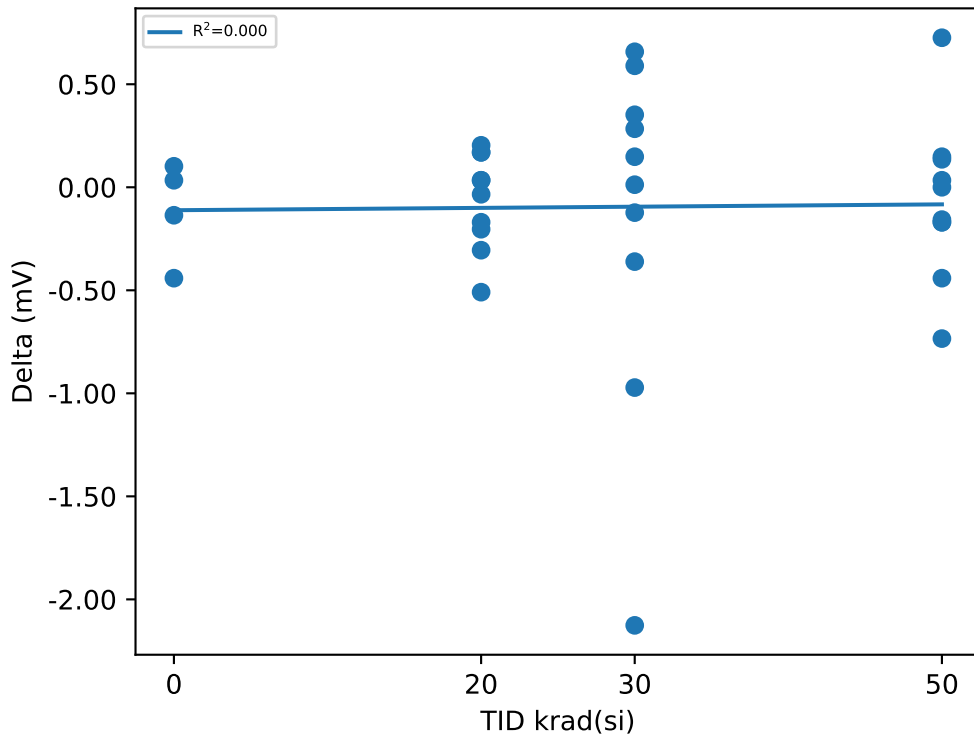
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 599.95 | 600.38 | 601.11 | 0.50606 | 599.51 | 600.27 | 601.21 | 0.7121 | -0.4412 | -0.1103 | 0.1018 | 0.24218 |
| 20 | 600.26 | 600.89 | 601.72 | 0.50875 | 600.05 | 600.82 | 601.75 | 0.53591 | -0.5091 | -0.06107 | 0.2037 | 0.23285 |
| 30 | 600.29 | 600.8 | 601.72 | 0.42311 | 599.59 | 600.64 | 601.32 | 0.53471 | -2.1261 | -0.15382 | 0.6576 | 0.842 |
| 50 | 600.16 | 600.83 | 601.51 | 0.38793 | 600.07 | 600.77 | 601.7 | 0.54769 | -0.7344 | -0.06283 | 0.7257 | 0.38658 |

# Device Test: 19.2   VTH_DOWN(_LEVEL|FALL/DOWNb/1.6/3/0/0/0/@VTH_DOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 483.0, Upper Limit = 512.0 (mV))

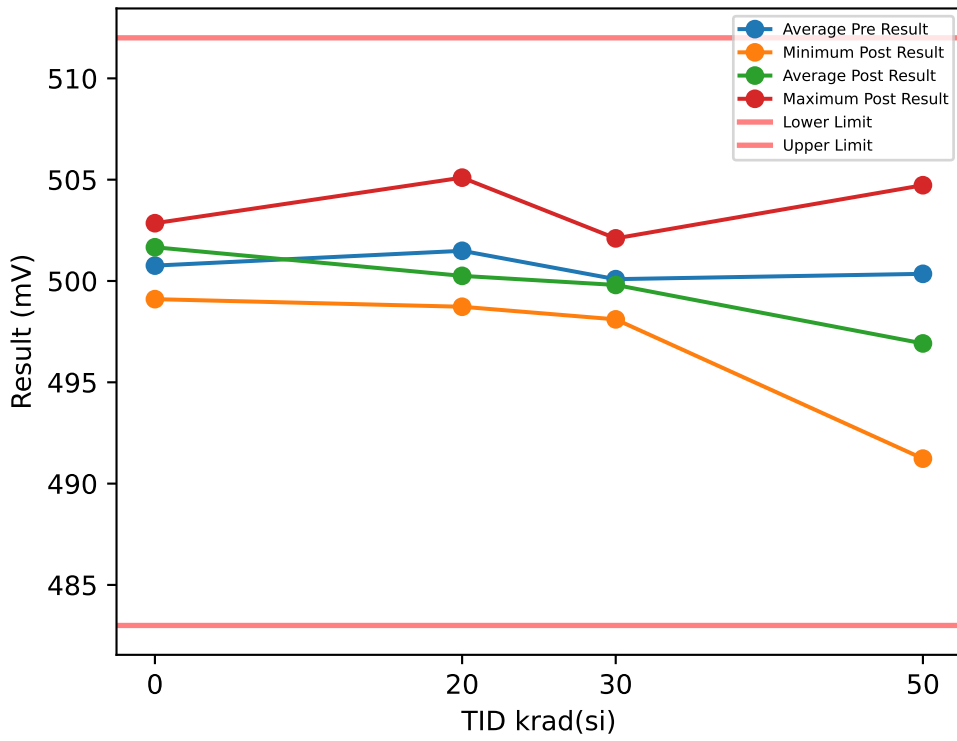| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 504.23 | 505.1 | 0.8744 |
| 2 | 20 | Bias | 500.48 | 498.73 | -1.749 |
| 3 | 20 | Bias | 498.48 | 499.35 | 0.8744 |
| 4 | 20 | Bias | 502.85 | 502.35 | -0.4996 |
| 5 | 20 | Bias | 500.73 | 498.98 | -1.7489 |
| 6 | 20 | Unbiased | 502.23 | 498.85 | -3.3729 |
| 7 | 20 | Unbiased | 503.23 | 500.98 | -2.2486 |
| 8 | 20 | Unbiased | 500.23 | 498.98 | -1.2493 |
| 9 | 20 | Unbiased | 499.73 | 498.73 | -0.9994 |
| 10 | 20 | Unbiased | 502.73 | 500.48 | -2.2486 |
| 11 | 30 | Bias | 501.48 | 502.1 | 0.6261 |
| 12 | 30 | Bias | 500.73 | 500.23 | -0.4981 |
| 13 | 30 | Bias | 501.23 | 498.61 | -2.6219 |
| 14 | 30 | Bias | 500.23 | 499.85 | -0.3734 |
| 15 | 30 | Bias | 500.1 | 499.48 | -0.6231 |
| 16 | 30 | Unbiased | 497.6 | 499.23 | 1.6255 |
| 17 | 30 | Unbiased | 499.48 | 498.11 | -1.3727 |
| 18 | 30 | Unbiased | 499.98 | 500.35 | 0.3763 |
| 19 | 30 | Unbiased | 500.1 | 500.1 | 0.0015 |
| 20 | 30 | Unbiased | 499.98 | 499.98 | 0.0016 |
| 21 | 50 | Bias | 501.98 | 498.86 | -3.1216 |
| 22 | 50 | Bias | 501.23 | 500.6 | -0.6231 |
| 23 | 50 | Bias | 500.85 | 500.85 | 0.0016 |
| 24 | 50 | Bias | 497.85 | 504.73 | 6.8724 |
| 25 | 50 | Bias | 501.98 | 500.35 | -1.624 |
| 26 | 50 | Unbiased | 498.73 | 491.98 | -6.7459 |
| 27 | 50 | Unbiased | 498.23 | 491.23 | -6.9957 |
| 28 | 50 | Unbiased | 503.98 | 496.73 | -7.2457 |
| 29 | 50 | Unbiased | 500.1 | 492.36 | -7.7453 |
| 30 | 50 | Unbiased | 498.6 | 491.48 | -7.1207 |
| 31 | 0 | Correlation | 502.1 | 501.85 | -0.2498 |
| 32 | 0 | Correlation | 498.98 | 499.1 | 0.1249 |
| 33 | 0 | Correlation | 502.98 | 502.85 | -0.1249 |
| 34 | 0 | Correlation | 498.98 | 502.85 | 3.8726 |
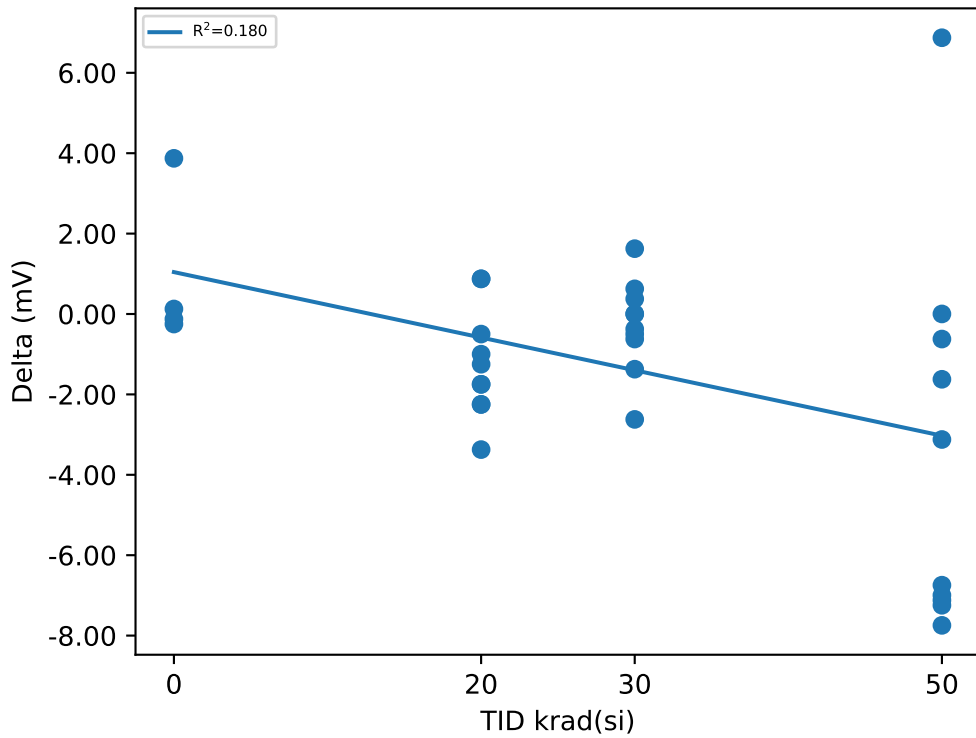
## Test Statistics (mV)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 498.98 | 500.76 | 502.98 | 2.0863 | 499.1 | 501.66 | 502.85 | 1.7711 | -0.2498 | 0.9057 | 3.8726 | 1.9841 |
| 20 | 498.48 | 501.49 | 504.23 | 1.8193 | 498.73 | 500.25 | 505.1 | 2.0852 | -3.3729 | -1.2368 | 0.8744 | 1.3601 |
| 30 | 497.6 | 500.09 | 501.48 | 1.0657 | 498.11 | 499.8 | 502.1 | 1.0878 | -2.6219 | -0.28582 | 1.6255 | 1.1496 |
| 50 | 497.85 | 500.35 | 503.98 | 1.9979 | 491.23 | 496.92 | 504.73 | 4.8608 | -7.7453 | -3.4348 | 6.8724 | 4.7101 |

# Device Test: 19.20  VTH_SENSE(_LEVEL|RISE/SENSE4/7/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2$=0.016

## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

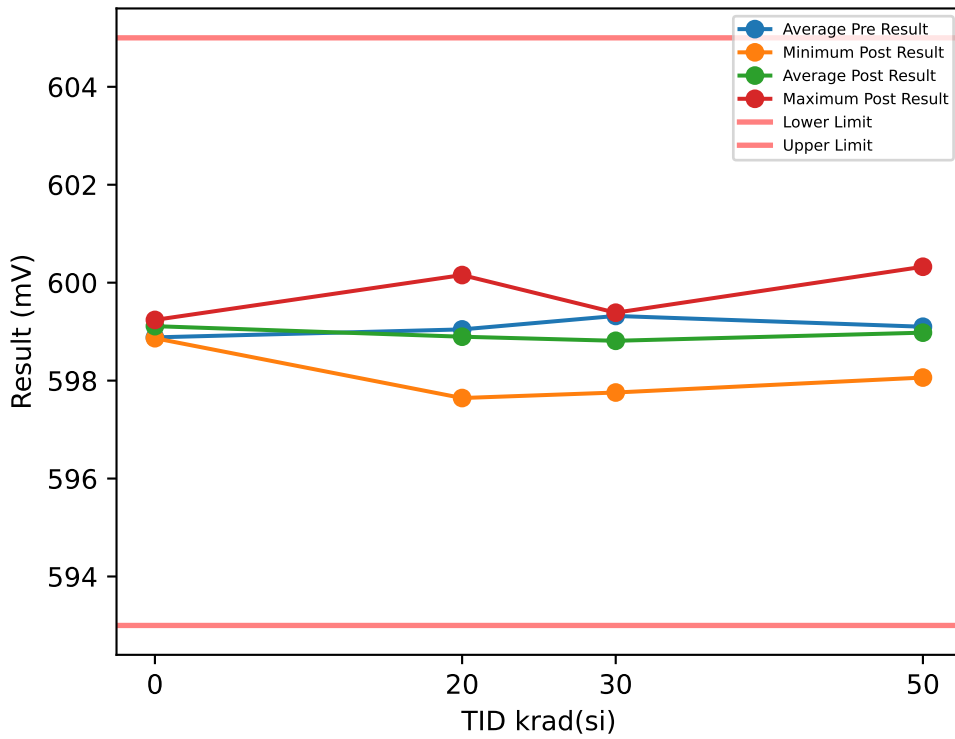| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 598.39 | 598.32 | -0.0679 |
| 2 | 20 | Bias | 599.38 | 599.21 | -0.1697 |
| 3 | 20 | Bias | 598.29 | 598.66 | 0.3733 |
| 4 | 20 | Bias | 600.46 | 600.16 | -0.3054 |
| 5 | 20 | Bias | 597.78 | 597.64 | -0.1357 |
| 6 | 20 | Unbiased | 599.38 | 599.07 | -0.3054 |
| 7 | 20 | Unbiased | 599.95 | 600.09 | 0.1357 |
| 8 | 20 | Unbiased | 599.1 | 598.73 | -0.3733 |
| 9 | 20 | Unbiased | 598.8 | 598.63 | -0.1697 |
| 10 | 20 | Unbiased | 598.93 | 598.46 | -0.4751 |
| 11 | 30 | Bias | 599.88 | 599.12 | -0.7689 |
| 12 | 30 | Bias | 599 | 599.18 | 0.1814 |
| 13 | 30 | Bias | 598.53 | 598.44 | -0.0905 |
| 14 | 30 | Bias | 599.61 | 598.4 | -1.2105 |
| 15 | 30 | Bias | 599.31 | 599.35 | 0.0458 |
| 16 | 30 | Unbiased | 599.92 | 599.08 | -0.8368 |
| 17 | 30 | Unbiased | 599.14 | 599.39 | 0.2494 |
| 18 | 30 | Unbiased | 599.1 | 598.61 | -0.4977 |
| 19 | 30 | Unbiased | 598.49 | 598.81 | 0.317 |
| 20 | 30 | Unbiased | 600.22 | 597.76 | -2.4666 |
| 21 | 50 | Bias | 598.87 | 600.03 | 1.1661 |
| 22 | 50 | Bias | 599 | 598.06 | -0.9392 |
| 23 | 50 | Bias | 599.14 | 599.29 | 0.1476 |
| 24 | 50 | Bias | 599.68 | 598.84 | -0.837 |
| 25 | 50 | Bias | 600.36 | 600.33 | -0.0339 |
| 26 | 50 | Unbiased | 598.73 | 598.7 | -0.0339 |
| 27 | 50 | Unbiased | 599.48 | 598.87 | -0.6109 |
| 28 | 50 | Unbiased | 598.63 | 598.59 | -0.034 |
| 29 | 50 | Unbiased | 598.49 | 598.36 | -0.1357 |
| 30 | 50 | Unbiased | 598.63 | 598.73 | 0.1018 |
| 31 | 0 | Correlation | 599.07 | 599.14 | 0.0678 |
| 32 | 0 | Correlation | 599.07 | 599.21 | 0.1357 |
| 33 | 0 | Correlation | 598.73 | 598.87 | 0.1357 |
| 34 | 0 | Correlation | 598.66 | 599.24 | 0.577 |

## Test Statistics (mV)
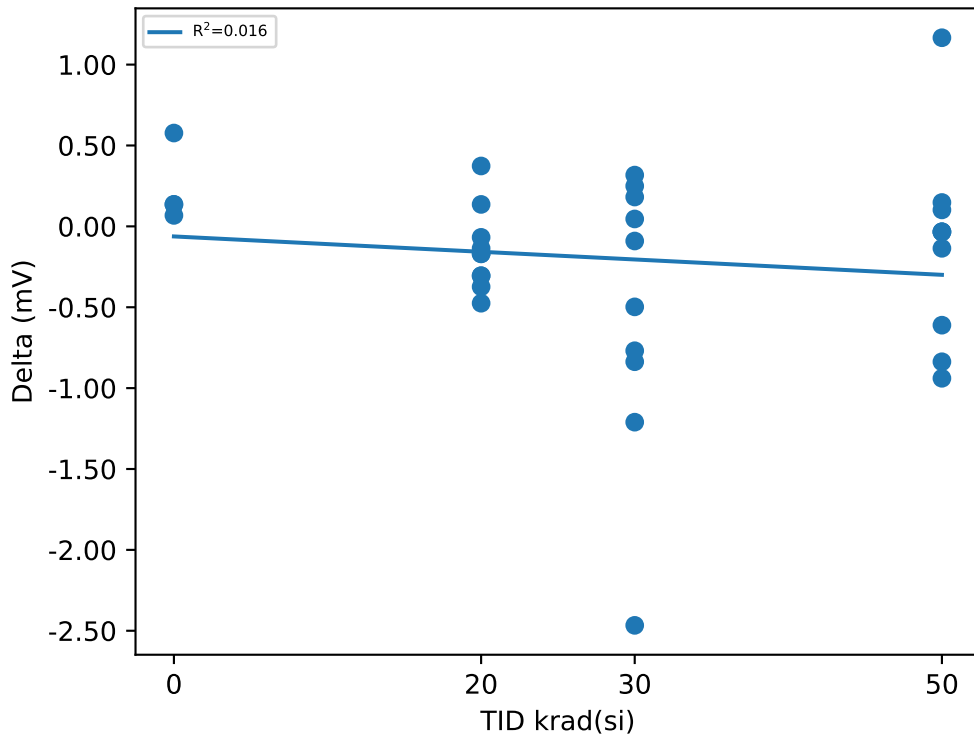
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.66 | 598.88 | 599.07 | 0.21733 | 598.87 | 599.11 | 599.24 | 0.16943 | 0.0678 | 0.22905 | 0.577 | 0.23416 |
| 20 | 597.78 | 599.05 | 600.46 | 0.79737 | 597.64 | 598.9 | 600.16 | 0.77265 | -0.4751 | -0.14932 | 0.3733 | 0.25101 |
| 30 | 598.49 | 599.32 | 600.22 | 0.58438 | 597.76 | 598.81 | 599.39 | 0.51534 | -2.4666 | -0.50774 | 0.317 | 0.86387 |
| 50 | 598.49 | 599.1 | 600.36 | 0.58508 | 598.06 | 598.98 | 600.33 | 0.71203 | -0.9392 | -0.12091 | 1.1661 | 0.59847 |

# Device Test: 19.21  VTH_SENSE(_LEVEL|FALL/SENSE4/7/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

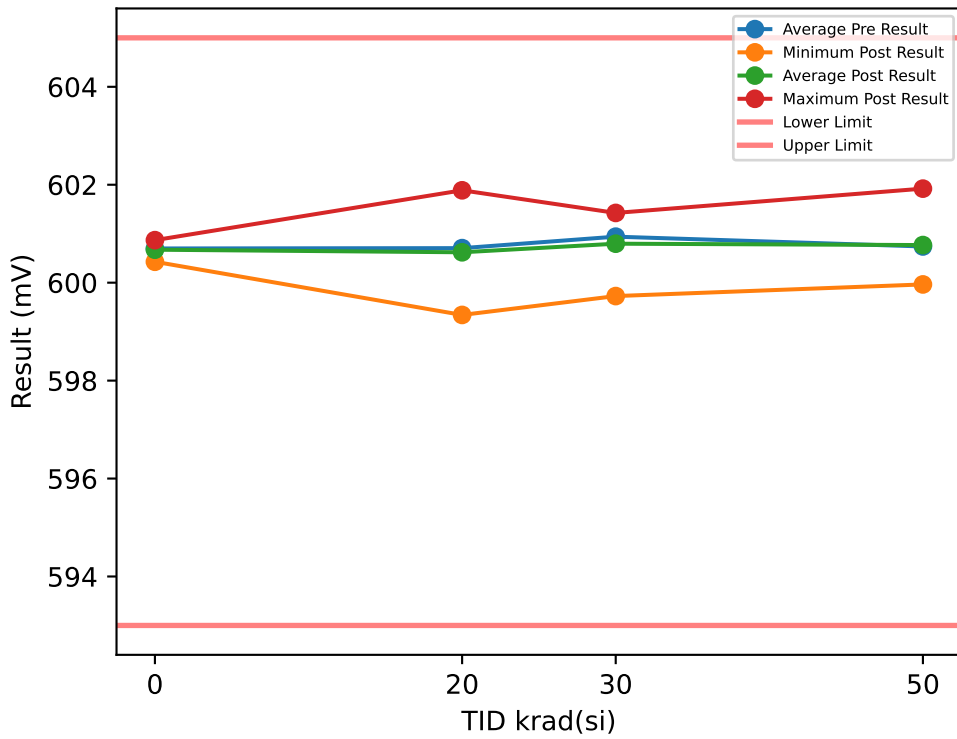| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.16 | 600.02 | -0.1358 |
| 2 | 20 | Bias | 601.04 | 601.14 | 0.1018 |
| 3 | 20 | Bias | 600.09 | 600.36 | 0.2715 |
| 4 | 20 | Bias | 602.09 | 601.89 | -0.2037 |
| 5 | 20 | Bias | 599.51 | 599.34 | -0.1697 |
| 6 | 20 | Unbiased | 600.77 | 600.97 | 0.2036 |
| 7 | 20 | Unbiased | 601.45 | 601.75 | 0.3055 |
| 8 | 20 | Unbiased | 600.73 | 600.33 | -0.4072 |
| 9 | 20 | Unbiased | 600.6 | 600.09 | -0.5091 |
| 10 | 20 | Unbiased | 600.63 | 600.33 | -0.3054 |
| 11 | 30 | Bias | 601.38 | 601.02 | -0.3607 |
| 12 | 30 | Bias | 600.8 | 601.29 | 0.4879 |
| 13 | 30 | Bias | 600.02 | 600.81 | 0.7932 |
| 14 | 30 | Bias | 601.31 | 600.34 | -0.9719 |
| 15 | 30 | Bias | 601.04 | 601.29 | 0.2503 |
| 16 | 30 | Unbiased | 601.41 | 600.91 | -0.4964 |
| 17 | 30 | Unbiased | 600.63 | 601.42 | 0.7935 |
| 18 | 30 | Unbiased | 600.8 | 600.41 | -0.3949 |
| 19 | 30 | Unbiased | 600.12 | 600.75 | 0.6233 |
| 20 | 30 | Unbiased | 601.89 | 599.73 | -2.16 |
| 21 | 50 | Bias | 600.36 | 601.9 | 1.5404 |
| 22 | 50 | Bias | 600.77 | 599.96 | -0.8024 |
| 23 | 50 | Bias | 600.77 | 601.22 | 0.4539 |
| 24 | 50 | Bias | 601.38 | 600.88 | -0.4965 |
| 25 | 50 | Bias | 601.99 | 601.92 | -0.0679 |
| 26 | 50 | Unbiased | 600.63 | 600.39 | -0.2375 |
| 27 | 50 | Unbiased | 600.87 | 600.66 | -0.2036 |
| 28 | 50 | Unbiased | 600.33 | 600.12 | -0.2036 |
| 29 | 50 | Unbiased | 600.16 | 600.22 | 0.0679 |
| 30 | 50 | Unbiased | 600.16 | 600.39 | 0.2376 |
| 31 | 0 | Correlation | 600.83 | 600.6 | -0.2376 |
| 32 | 0 | Correlation | 601.11 | 600.8 | -0.3055 |
| 33 | 0 | Correlation | 600.66 | 600.43 | -0.2376 |
| 34 | 0 | Correlation | 600.19 | 600.87 | 0.6788 |

## Test Statistics (mV)
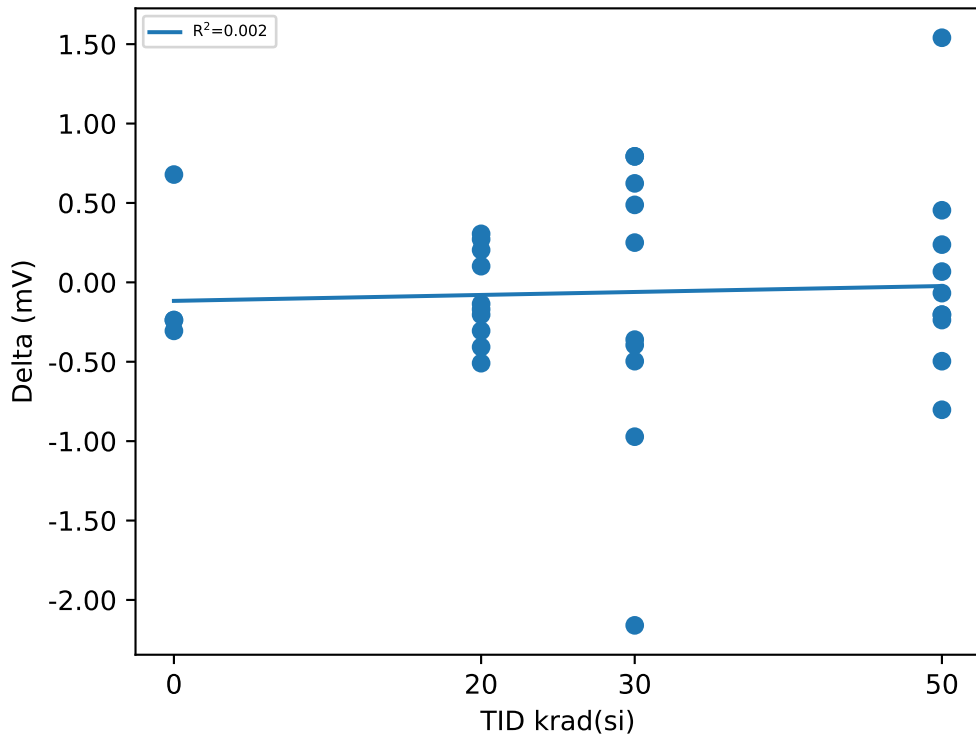
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 600.19 | 600.7 | 601.11 | 0.385 | 600.43 | 600.67 | 600.87 | 0.20054 | -0.3055 | -0.025475 | 0.6788 | 0.47061 |
| 20 | 599.51 | 600.71 | 602.09 | 0.72327 | 599.34 | 600.62 | 601.89 | 0.80249 | -0.5091 | -0.08485 | 0.3055 | 0.28942 |
| 30 | 600.02 | 600.94 | 601.89 | 0.58749 | 599.73 | 600.8 | 601.42 | 0.52194 | -2.16 | -0.14357 | 0.7935 | 0.93598 |
| 50 | 600.16 | 600.74 | 601.99 | 0.57681 | 599.96 | 600.77 | 601.92 | 0.70538 | -0.8024 | 0.02883 | 1.5404 | 0.63822 |

# Device Test: 19.22  UP_DOWN_VHYS(_LEVEL|HYS/UP/7/3/0/0/0/@UP_DOWN_VHYS )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (No Limits Specified (mV))

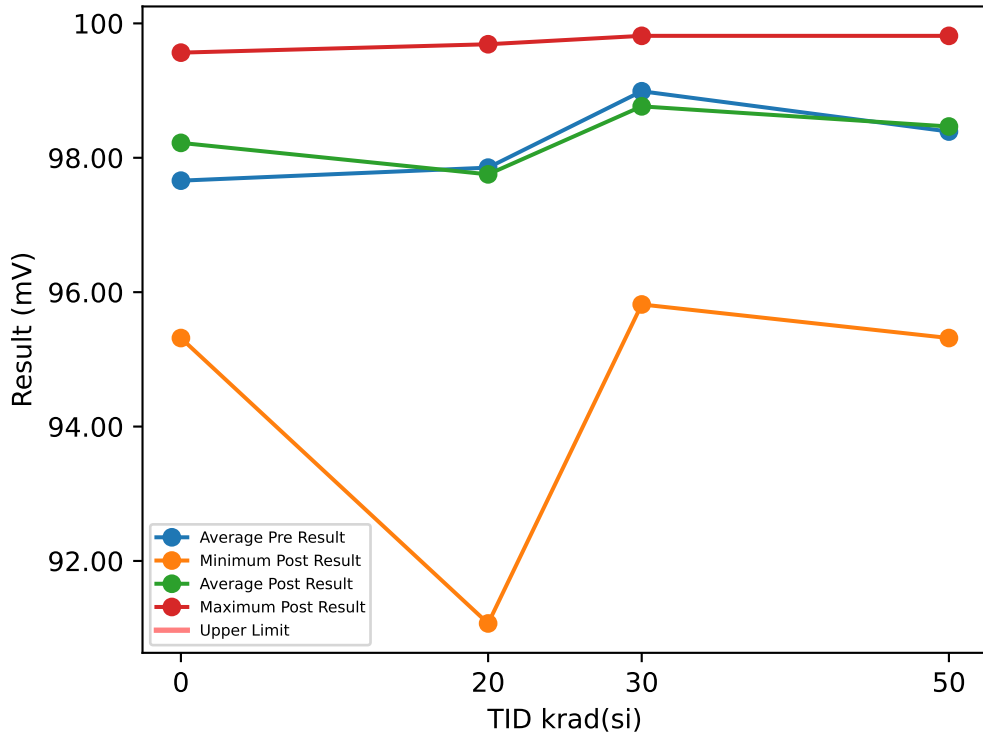| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.565 | 99.315 | -0.2499 |
| 2 | 20 | Bias | 99.315 | 99.69 | 0.3747 |
| 3 | 20 | Bias | 99.565 | 99.44 | -0.1249 |
| 4 | 20 | Bias | 99.815 | 99.565 | -0.2499 |
| 5 | 20 | Bias | 96.941 | 98.066 | 1.1243 |
| 6 | 20 | Unbiased | 99.315 | 99.69 | 0.3747 |
| 7 | 20 | Unbiased | 90.82 | 91.07 | 0.2498 |
| 8 | 20 | Unbiased | 97.691 | 95.942 | -1.7489 |
| 9 | 20 | Unbiased | 99.315 | 99.315 | 0 |
| 10 | 20 | Unbiased | 96.192 | 95.442 | -0.7496 |
| 11 | 30 | Bias | 99.69 | 99.44 | -0.2497 |
| 12 | 30 | Bias | 99.44 | 99.565 | 0.125 |
| 13 | 30 | Bias | 97.816 | 99.065 | 1.2495 |
| 14 | 30 | Bias | 99.44 | 97.691 | -1.7486 |
| 15 | 30 | Bias | 97.191 | 98.815 | 1.6243 |
| 16 | 30 | Unbiased | 99.19 | 95.817 | -3.3727 |
| 17 | 30 | Unbiased | 99.69 | 98.441 | -1.249 |
| 18 | 30 | Unbiased | 99.19 | 99.565 | 0.375 |
| 19 | 30 | Unbiased | 98.94 | 99.815 | 0.8747 |
| 20 | 30 | Unbiased | 99.315 | 99.44 | 0.1253 |
| 21 | 50 | Bias | 96.192 | 99.69 | 3.4981 |
| 22 | 50 | Bias | 96.067 | 96.567 | 0.4999 |
| 23 | 50 | Bias | 98.066 | 95.317 | -2.7482 |
| 24 | 50 | Bias | 99.565 | 98.316 | -1.249 |
| 25 | 50 | Bias | 99.814 | 99.814 | 0 |
| 26 | 50 | Unbiased | 99.69 | 99.69 | 0.0001 |
| 27 | 50 | Unbiased | 99.315 | 99.315 | 0 |
| 28 | 50 | Unbiased | 99.315 | 99.44 | 0.1249 |
| 29 | 50 | Unbiased | 99.44 | 99.315 | -0.1249 |
| 30 | 50 | Unbiased | 96.442 | 97.191 | 0.7495 |
| 31 | 0 | Correlation | 99.565 | 99.565 | 0 |
| 32 | 0 | Correlation | 98.565 | 98.69 | 0.1249 |
| 33 | 0 | Correlation | 95.442 | 95.317 | -0.1248 |
| 34 | 0 | Correlation | 97.066 | 99.315 | 2.2487 |

## Test Statistics (mV)
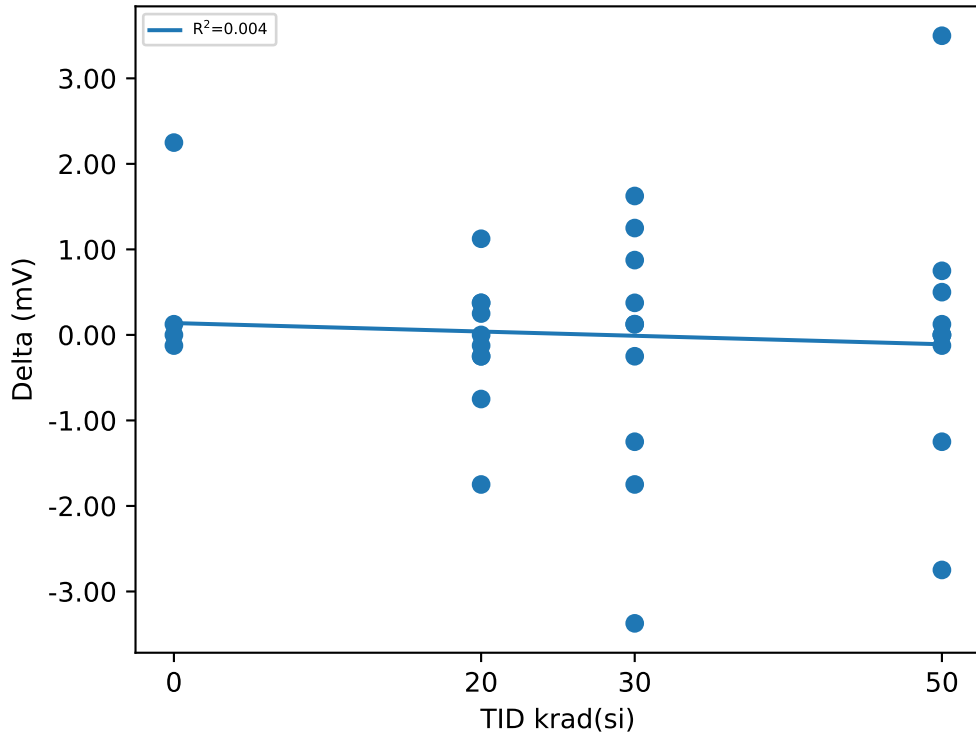
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 95.442 | 97.66 | 99.565 | 1.7999 | 95.317 | 98.222 | 99.565 | 1.9709 | -0.1248 | 0.5622 | 2.2487 | 1.1289 |
| 20 | 90.82 | 97.853 | 99.815 | 2.7729 | 91.07 | 97.753 | 99.69 | 2.8263 | -1.7489 | -0.09997 | 1.1243 | 0.7651 |
| 30 | 97.191 | 98.99 | 99.69 | 0.82908 | 95.817 | 98.765 | 99.815 | 1.2172 | -3.3727 | -0.22462 | 1.6243 | 1.5161 |
| 50 | 96.067 | 98.39 | 99.814 | 1.5649 | 95.317 | 98.465 | 99.814 | 1.5766 | -2.7482 | 0.07504 | 3.4981 | 1.5683 |

# Device Test: 19.23  VTH_UP(_LEVEL|RISE/UP/1.6/14/0/0/0/@VTH_UP )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 580.0, Upper Limit = 615.0 (mV))

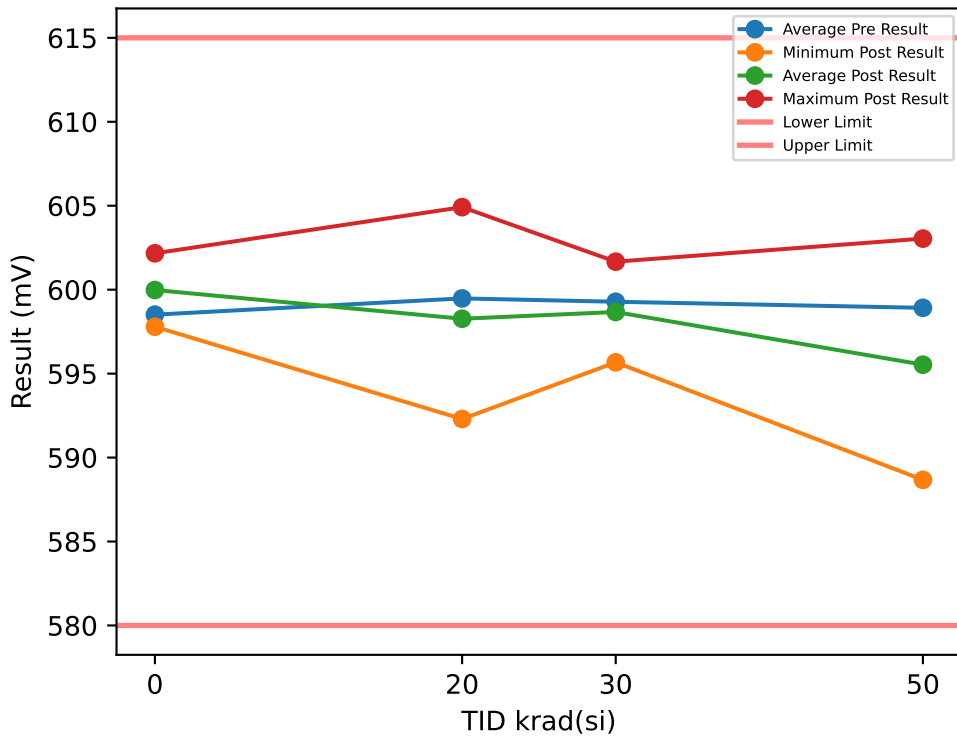| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 603.91 | 604.91 | 0.9994 |
| 2 | 20 | Bias | 600.04 | 598.42 | -1.6239 |
| 3 | 20 | Bias | 598.04 | 598.92 | 0.8745 |
| 4 | 20 | Bias | 602.67 | 602.04 | -0.6246 |
| 5 | 20 | Bias | 597.67 | 597.17 | -0.4997 |
| 6 | 20 | Unbiased | 601.67 | 598.54 | -3.123 |
| 7 | 20 | Unbiased | 594.3 | 592.3 | -1.9989 |
| 8 | 20 | Unbiased | 598.29 | 595.67 | -2.6234 |
| 9 | 20 | Unbiased | 599.17 | 598.42 | -0.7495 |
| 10 | 20 | Unbiased | 599.04 | 596.29 | -2.7484 |
| 11 | 30 | Bias | 601.17 | 601.67 | 0.5014 |
| 12 | 30 | Bias | 600.29 | 599.67 | -0.623 |
| 13 | 30 | Bias | 599.54 | 598.05 | -1.4973 |
| 14 | 30 | Bias | 599.79 | 597.42 | -2.3718 |
| 15 | 30 | Bias | 597.04 | 598.42 | 1.3759 |
| 16 | 30 | Unbiased | 596.92 | 595.67 | -1.2476 |
| 17 | 30 | Unbiased | 599.04 | 596.55 | -2.4968 |
| 18 | 30 | Unbiased | 599.67 | 600.17 | 0.5014 |
| 19 | 30 | Unbiased | 599.67 | 599.67 | 0.0017 |
| 20 | 30 | Unbiased | 599.67 | 599.42 | -0.2481 |
| 21 | 50 | Bias | 598.67 | 598.67 | 0.0017 |
| 22 | 50 | Bias | 597.04 | 597.42 | 0.3765 |
| 23 | 50 | Bias | 599.04 | 596.55 | -2.4968 |
| 24 | 50 | Bias | 597.42 | 603.04 | 5.6234 |
| 25 | 50 | Bias | 601.67 | 600.17 | -1.499 |
| 26 | 50 | Unbiased | 599.04 | 591.92 | -7.1207 |
| 27 | 50 | Unbiased | 597.79 | 591.05 | -6.7459 |
| 28 | 50 | Unbiased | 603.54 | 596.04 | -7.4954 |
| 29 | 50 | Unbiased | 599.67 | 591.8 | -7.8702 |
| 30 | 50 | Unbiased | 595.3 | 588.67 | -6.621 |
| 31 | 0 | Correlation | 601.79 | 601.54 | -0.2498 |
| 32 | 0 | Correlation | 597.92 | 597.79 | -0.1249 |
| 33 | 0 | Correlation | 598.29 | 598.42 | 0.125 |
| 34 | 0 | Correlation | 596.04 | 602.17 | 6.1213 |
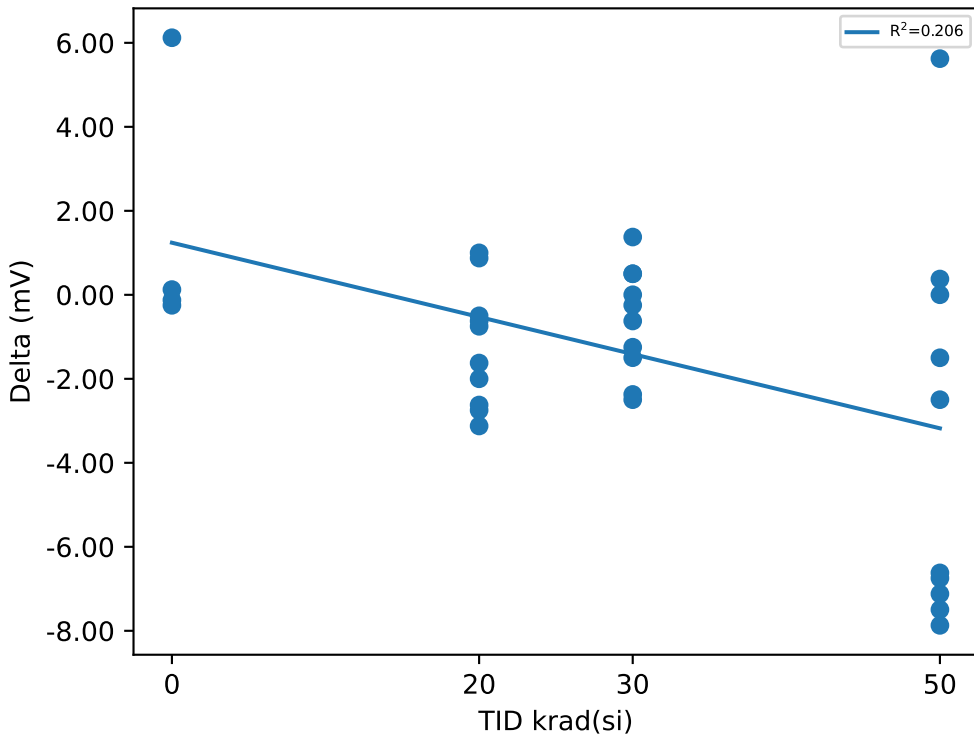
## Test Statistics (mV)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 596.04 | 598.51 | 601.79 | 2.3973 | 597.79 | 599.98 | 602.17 | 2.1936 | -0.2498 | 1.4679 | 6.1213 | 3.1062 |
| 20 | 594.3 | 599.48 | 603.91 | 2.7655 | 592.3 | 598.27 | 604.91 | 3.4393 | -3.123 | -1.2117 | 0.9994 | 1.4569 |
| 30 | 596.92 | 599.28 | 601.17 | 1.3331 | 595.67 | 598.67 | 601.67 | 1.8046 | -2.4968 | -0.61042 | 1.3759 | 1.2814 |
| 50 | 595.3 | 598.92 | 603.54 | 2.3504 | 588.67 | 595.53 | 603.04 | 4.5547 | -7.8702 | -3.3847 | 5.6234 | 4.5197 |

# Device Test: 19.24  VTH_DOWN(_LEVEL|FALL/DOWNb/1.6/14/0/0/0/@VTH_DOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 483.0, Upper Limit = 512.0 (mV))

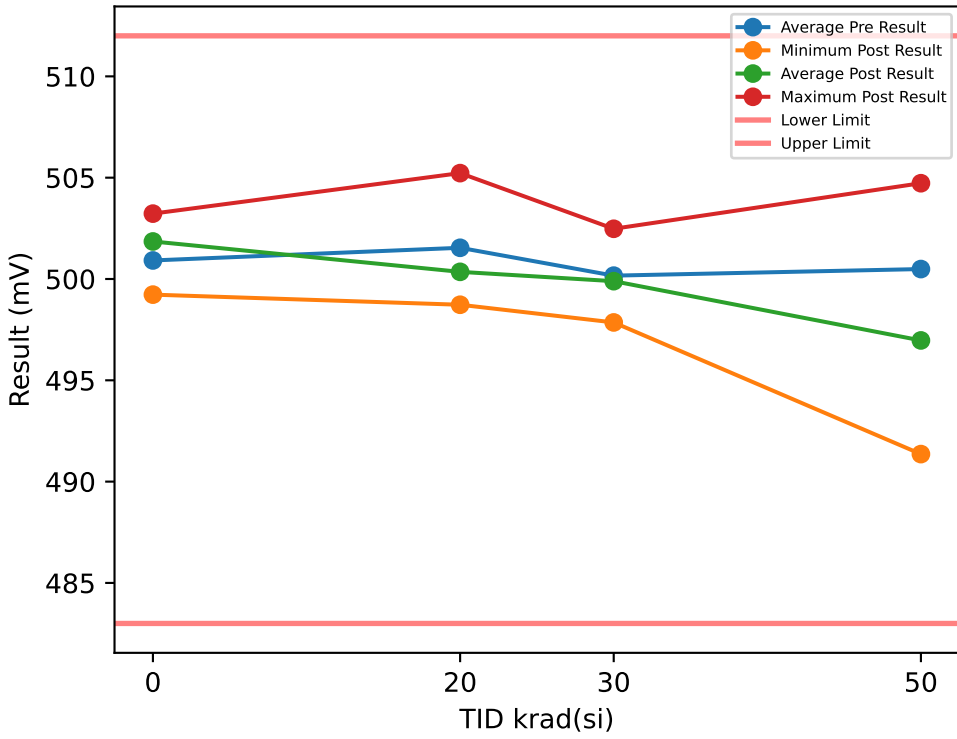| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 504.35 | 505.22 | 0.8745 |
| 2 | 20 | Bias | 500.35 | 498.85 | -1.499 |
| 3 | 20 | Bias | 498.48 | 499.35 | 0.8744 |
| 4 | 20 | Bias | 502.98 | 502.23 | -0.7495 |
| 5 | 20 | Bias | 500.98 | 499.35 | -1.6241 |
| 6 | 20 | Unbiased | 502.23 | 498.73 | -3.4979 |
| 7 | 20 | Unbiased | 503.35 | 500.98 | -2.3735 |
| 8 | 20 | Unbiased | 500.23 | 499.35 | -0.8746 |
| 9 | 20 | Unbiased | 499.85 | 498.73 | -1.1243 |
| 10 | 20 | Unbiased | 502.6 | 500.73 | -1.8739 |
| 11 | 30 | Bias | 501.48 | 502.48 | 1.0008 |
| 12 | 30 | Bias | 500.98 | 500.48 | -0.4982 |
| 13 | 30 | Bias | 501.1 | 498.86 | -2.2472 |
| 14 | 30 | Bias | 500.48 | 499.73 | -0.7481 |
| 15 | 30 | Bias | 499.98 | 499.23 | -0.748 |
| 16 | 30 | Unbiased | 497.73 | 499.48 | 1.7505 |
| 17 | 30 | Unbiased | 499.73 | 497.86 | -1.8723 |
| 18 | 30 | Unbiased | 499.98 | 500.6 | 0.6262 |
| 19 | 30 | Unbiased | 500.23 | 500.23 | 0.0015 |
| 20 | 30 | Unbiased | 499.98 | 499.98 | 0.0016 |
| 21 | 50 | Bias | 501.98 | 498.73 | -3.2465 |
| 22 | 50 | Bias | 501.23 | 500.85 | -0.3732 |
| 23 | 50 | Bias | 500.98 | 500.98 | 0.0015 |
| 24 | 50 | Bias | 497.85 | 504.73 | 6.8724 |
| 25 | 50 | Bias | 502.1 | 500.35 | -1.749 |
| 26 | 50 | Unbiased | 498.98 | 492.11 | -6.8709 |
| 27 | 50 | Unbiased | 498.48 | 491.36 | -7.1207 |
| 28 | 50 | Unbiased | 504.1 | 496.85 | -7.2455 |
| 29 | 50 | Unbiased | 500.35 | 492.36 | -7.9951 |
| 30 | 50 | Unbiased | 498.85 | 491.36 | -7.4955 |
| 31 | 0 | Correlation | 502.23 | 502.1 | -0.1249 |
| 32 | 0 | Correlation | 499.48 | 499.23 | -0.2499 |
| 33 | 0 | Correlation | 502.98 | 503.23 | 0.2499 |
| 34 | 0 | Correlation | 498.98 | 502.85 | 3.8726 |
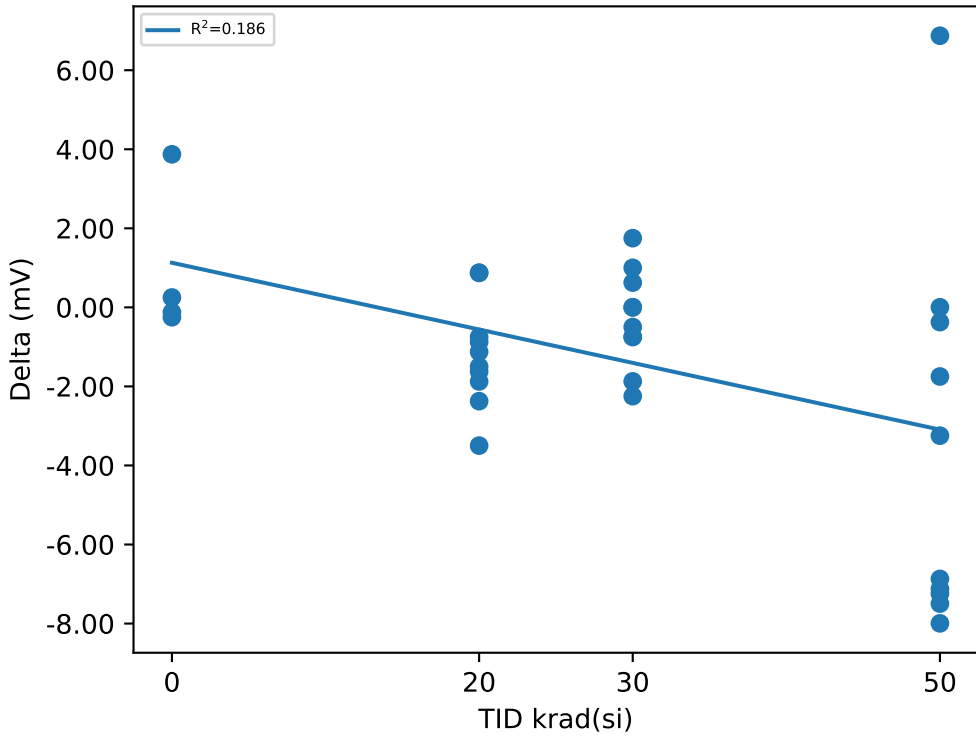
## Test Statistics (mV)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 498.98 | 500.91 | 502.98 | 1.9818 | 499.23 | 501.85 | 503.23 | 1.8103 | -0.2499 | 0.93693 | 3.8726 | 1.9686 |
| 20 | 498.48 | 501.54 | 504.35 | 1.8409 | 498.73 | 500.35 | 505.22 | 2.0628 | -3.4979 | -1.1868 | 0.8745 | 1.3458 |
| 30 | 497.73 | 500.17 | 501.48 | 1.0323 | 497.86 | 499.89 | 502.48 | 1.2255 | -2.2472 | -0.27332 | 1.7505 | 1.2308 |
| 50 | 497.85 | 500.49 | 504.1 | 1.9606 | 491.36 | 496.97 | 504.73 | 4.8737 | -7.9951 | -3.5222 | 6.8724 | 4.8007 |

# Device Test: 19.25  VTH_SENSE(_LEVEL|RISE/SENSE1/1.6/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

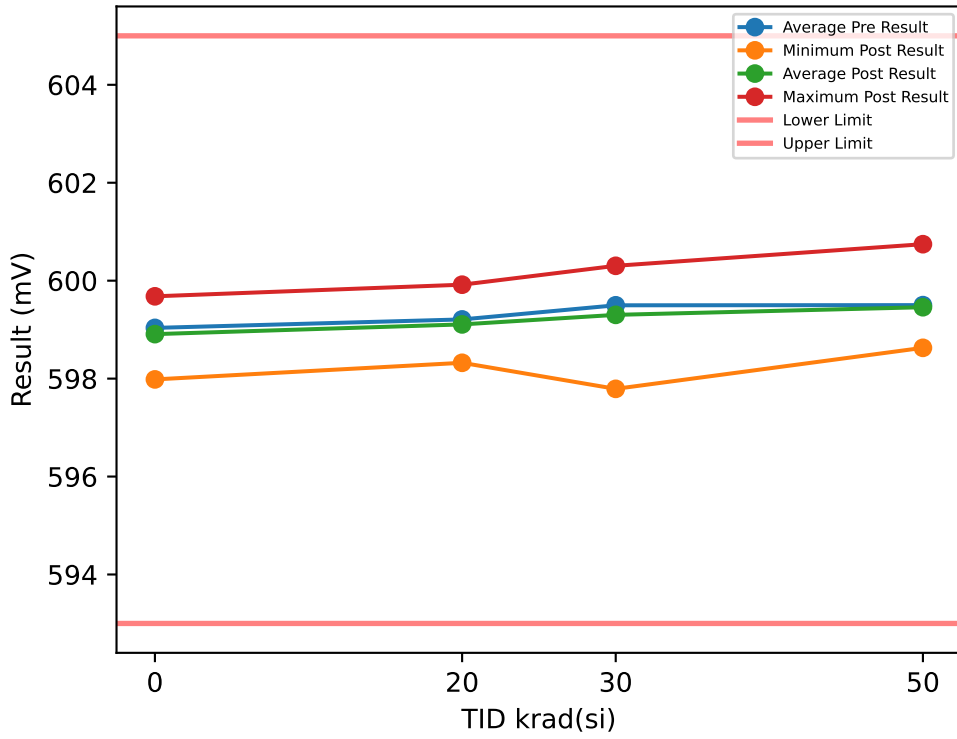| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 598.93 | 599.07 | 0.1358 |
| 2 | 20 | Bias | 598.56 | 598.46 | -0.1018 |
| 3 | 20 | Bias | 599.27 | 599.21 | -0.0679 |
| 4 | 20 | Bias | 600.43 | 599.92 | -0.5091 |
| 5 | 20 | Bias | 598.39 | 598.32 | -0.0679 |
| 6 | 20 | Unbiased | 599.58 | 599.78 | 0.2037 |
| 7 | 20 | Unbiased | 598.63 | 599.04 | 0.4072 |
| 8 | 20 | Unbiased | 599.65 | 599.24 | -0.4072 |
| 9 | 20 | Unbiased | 599.41 | 598.97 | -0.4412 |
| 10 | 20 | Unbiased | 599.24 | 599.07 | -0.1697 |
| 11 | 30 | Bias | 598.83 | 597.79 | -1.0411 |
| 12 | 30 | Bias | 599.34 | 598.1 | -1.2446 |
| 13 | 30 | Bias | 599 | 599.52 | 0.521 |
| 14 | 30 | Bias | 600.12 | 599.66 | -0.4633 |
| 15 | 30 | Bias | 599.82 | 600.2 | 0.3855 |
| 16 | 30 | Unbiased | 599.92 | 600.3 | 0.3856 |
| 17 | 30 | Unbiased | 599.21 | 599.66 | 0.4531 |
| 18 | 30 | Unbiased | 599.07 | 599.49 | 0.4191 |
| 19 | 30 | Unbiased | 599.44 | 599.35 | -0.09 |
| 20 | 30 | Unbiased | 600.22 | 598.95 | -1.2781 |
| 21 | 50 | Bias | 599.04 | 600.54 | 1.5057 |
| 22 | 50 | Bias | 599.65 | 598.67 | -0.9727 |
| 23 | 50 | Bias | 600.26 | 599.66 | -0.599 |
| 24 | 50 | Bias | 599.82 | 600.75 | 0.9288 |
| 25 | 50 | Bias | 600.53 | 600.26 | -0.2715 |
| 26 | 50 | Unbiased | 598.9 | 598.7 | -0.2036 |
| 27 | 50 | Unbiased | 599.44 | 598.87 | -0.577 |
| 28 | 50 | Unbiased | 599.04 | 598.97 | -0.0678 |
| 29 | 50 | Unbiased | 598.8 | 598.63 | -0.1697 |
| 30 | 50 | Unbiased | 599.54 | 599.54 | 0 |
| 31 | 0 | Correlation | 599.1 | 598.93 | -0.1697 |
| 32 | 0 | Correlation | 599.78 | 599.68 | -0.1018 |
| 33 | 0 | Correlation | 599 | 599.04 | 0.0339 |
| 34 | 0 | Correlation | 598.26 | 597.98 | -0.2715 |

## Test Statistics (mV)
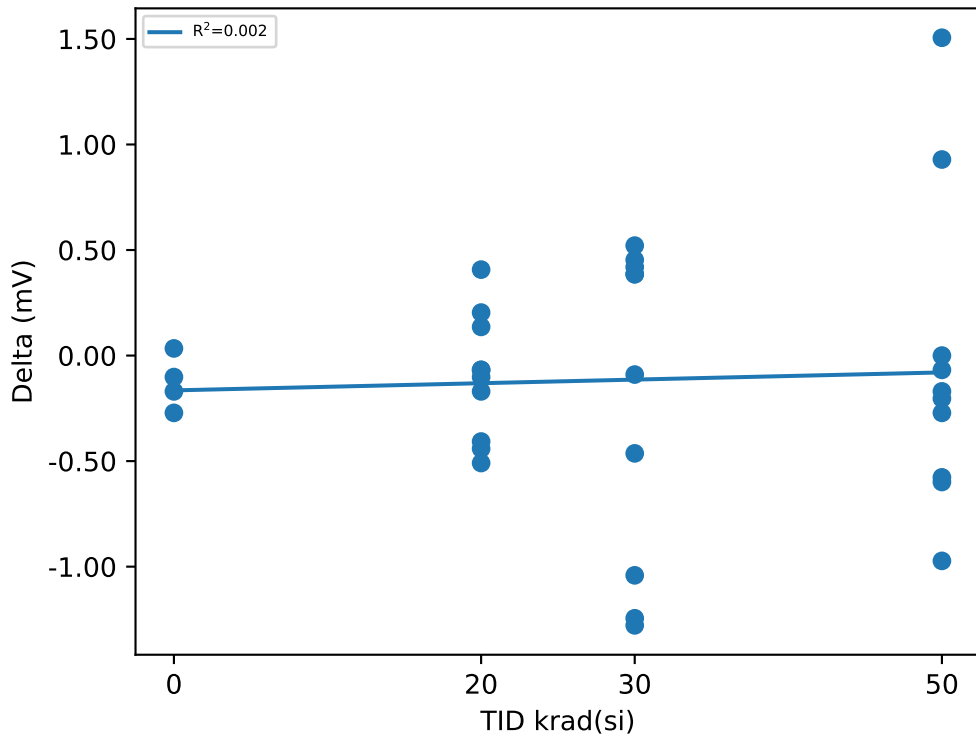
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.26 | 599.04 | 599.78 | 0.62517 | 597.98 | 598.91 | 599.68 | 0.69958 | -0.2715 | -0.12727 | 0.0339 | 0.1281 |
| 20 | 598.39 | 599.21 | 600.43 | 0.61098 | 598.32 | 599.11 | 599.92 | 0.49478 | -0.5091 | -0.10181 | 0.4072 | 0.2963 |
| 30 | 598.83 | 599.5 | 600.22 | 0.49213 | 597.79 | 599.3 | 600.3 | 0.81763 | -1.2781 | -0.19528 | 0.521 | 0.74963 |
| 50 | 598.8 | 599.5 | 600.53 | 0.58148 | 598.63 | 599.46 | 600.75 | 0.81588 | -0.9727 | -0.04268 | 1.5057 | 0.73772 |

# Device Test: 19.26  VTH_SENSE(_LEVEL|FALL/SENSE1/1.6/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

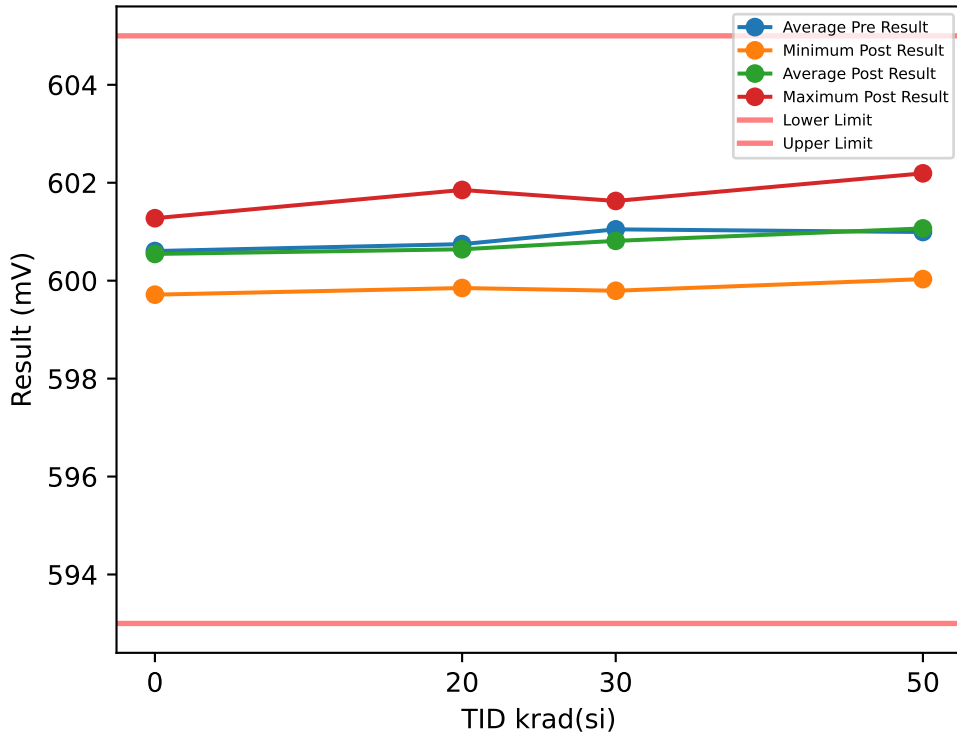| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.53 | 600.56 | 0.0339 |
| 2 | 20 | Bias | 600.22 | 600.16 | -0.0679 |
| 3 | 20 | Bias | 600.66 | 600.9 | 0.2375 |
| 4 | 20 | Bias | 601.85 | 601.85 | 0 |
| 5 | 20 | Bias | 600.22 | 599.85 | -0.3734 |
| 6 | 20 | Unbiased | 600.94 | 601 | 0.0678 |
| 7 | 20 | Unbiased | 600.43 | 600.19 | -0.2376 |
| 8 | 20 | Unbiased | 600.94 | 600.66 | -0.2715 |
| 9 | 20 | Unbiased | 600.87 | 600.56 | -0.3055 |
| 10 | 20 | Unbiased | 600.8 | 600.66 | -0.1357 |
| 11 | 30 | Bias | 600.36 | 599.79 | -0.5649 |
| 12 | 30 | Bias | 601.04 | 600.03 | -1.006 |
| 13 | 30 | Bias | 600.43 | 600.98 | 0.5556 |
| 14 | 30 | Bias | 601.41 | 600.85 | -0.5644 |
| 15 | 30 | Bias | 601.38 | 601.63 | 0.2505 |
| 16 | 30 | Unbiased | 601.38 | 601.53 | 0.1486 |
| 17 | 30 | Unbiased | 601 | 601.25 | 0.2504 |
| 18 | 30 | Unbiased | 600.77 | 600.91 | 0.1484 |
| 19 | 30 | Unbiased | 601.04 | 600.68 | -0.3608 |
| 20 | 30 | Unbiased | 601.68 | 600.47 | -1.2094 |
| 21 | 50 | Bias | 600.63 | 601.83 | 1.2009 |
| 22 | 50 | Bias | 600.9 | 600.03 | -0.8702 |
| 23 | 50 | Bias | 601.99 | 601.66 | -0.3264 |
| 24 | 50 | Bias | 601.31 | 602.1 | 0.7938 |
| 25 | 50 | Bias | 601.95 | 602.19 | 0.2376 |
| 26 | 50 | Unbiased | 600.39 | 600.29 | -0.1019 |
| 27 | 50 | Unbiased | 600.7 | 600.5 | -0.2036 |
| 28 | 50 | Unbiased | 600.7 | 600.8 | 0.1018 |
| 29 | 50 | Unbiased | 600.33 | 600.19 | -0.1358 |
| 30 | 50 | Unbiased | 601.04 | 601.07 | 0.0339 |
| 31 | 0 | Correlation | 600.56 | 600.56 | 0 |
| 32 | 0 | Correlation | 601.41 | 601.28 | -0.1358 |
| 33 | 0 | Correlation | 600.43 | 600.63 | 0.2036 |
| 34 | 0 | Correlation | 600.02 | 599.71 | -0.3054 |

## Test Statistics (mV)
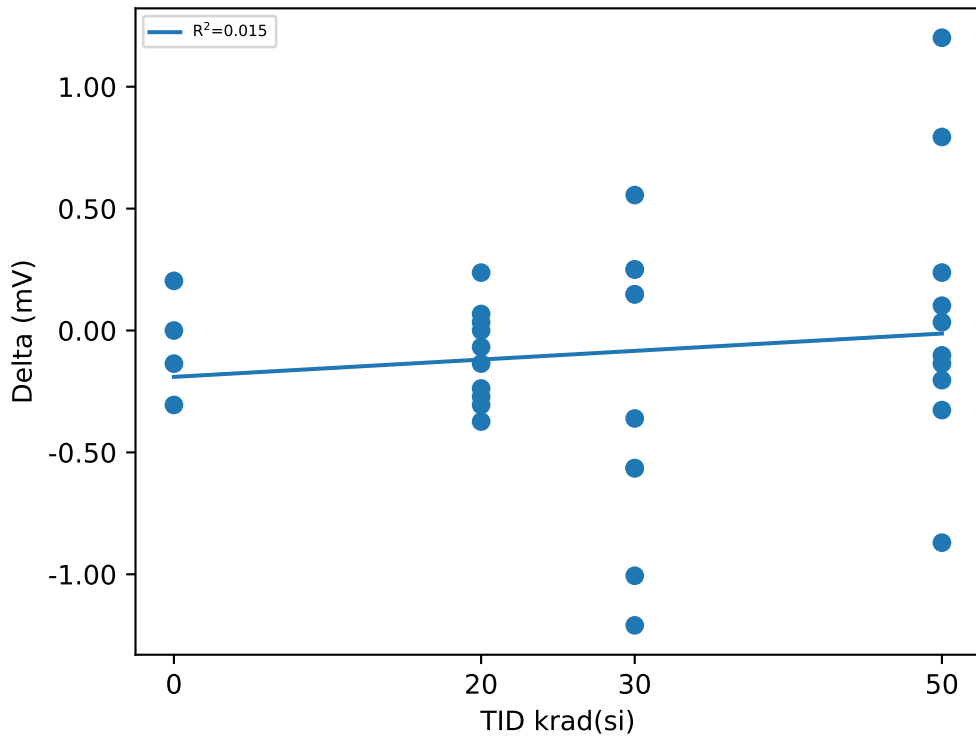
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 600.02 | 600.61 | 601.41 | 0.58481 | 599.71 | 600.55 | 601.28 | 0.64062 | -0.3054 | -0.0594 | 0.2036 | 0.21529 |
| 20 | 600.22 | 600.75 | 601.85 | 0.47329 | 599.85 | 600.64 | 601.85 | 0.55238 | -0.3734 | -0.10524 | 0.2375 | 0.19361 |
| 30 | 600.36 | 601.05 | 601.68 | 0.43376 | 599.79 | 600.81 | 601.63 | 0.59527 | -1.2094 | -0.2352 | 0.5556 | 0.59326 |
| 50 | 600.33 | 600.99 | 601.99 | 0.59023 | 600.03 | 601.07 | 602.19 | 0.82456 | -0.8702 | 0.07301 | 1.2009 | 0.57937 |

# Device Test: 19.27  VTH_SENSE(_LEVEL|RISE/SENSE2/1.6/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

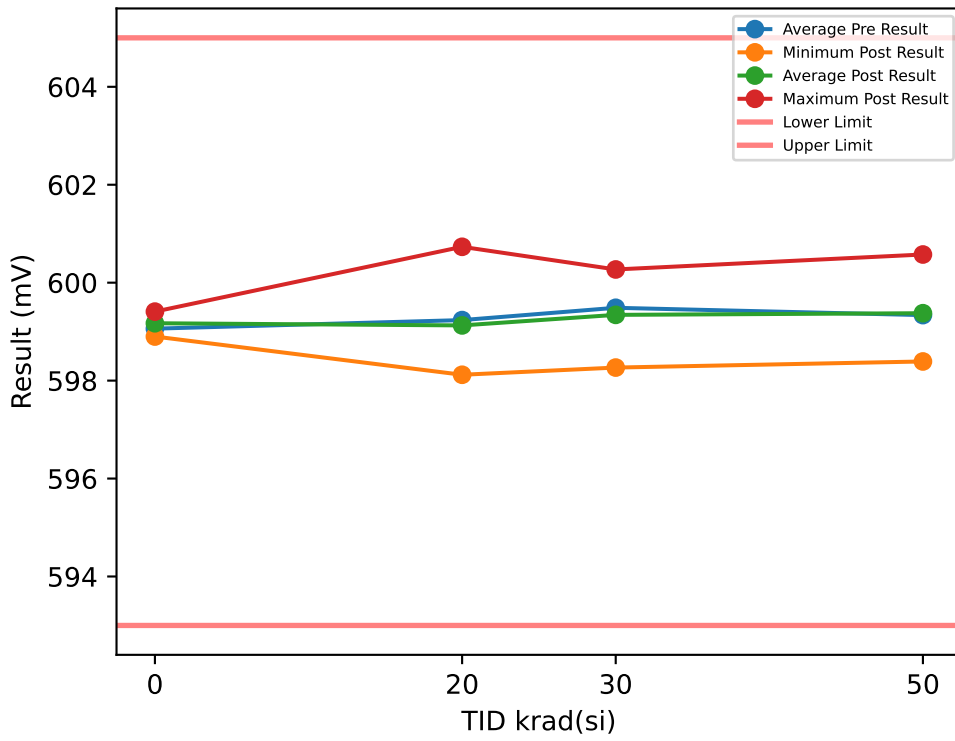| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 598.97 | 598.8 | -0.1697 |
| 2 | 20 | Bias | 598.56 | 598.49 | -0.0679 |
| 3 | 20 | Bias | 598.49 | 598.66 | 0.1697 |
| 4 | 20 | Bias | 600.7 | 600.73 | 0.0339 |
| 5 | 20 | Bias | 598.32 | 598.12 | -0.2036 |
| 6 | 20 | Unbiased | 599.41 | 599.68 | 0.2715 |
| 7 | 20 | Unbiased | 600.02 | 600.02 | 0 |
| 8 | 20 | Unbiased | 599.34 | 598.93 | -0.4073 |
| 9 | 20 | Unbiased | 599.34 | 598.87 | -0.4752 |
| 10 | 20 | Unbiased | 599.21 | 598.97 | -0.2375 |
| 11 | 30 | Bias | 599.51 | 599.32 | -0.1919 |
| 12 | 30 | Bias | 599.48 | 599.32 | -0.1579 |
| 13 | 30 | Bias | 598.36 | 599.29 | 0.9281 |
| 14 | 30 | Bias | 600.05 | 599.05 | -1.0065 |
| 15 | 30 | Bias | 599.68 | 600.27 | 0.5892 |
| 16 | 30 | Unbiased | 599.48 | 600 | 0.5212 |
| 17 | 30 | Unbiased | 599.41 | 598.88 | -0.5315 |
| 18 | 30 | Unbiased | 599.82 | 599.9 | 0.08 |
| 19 | 30 | Unbiased | 598.32 | 599.15 | 0.8262 |
| 20 | 30 | Unbiased | 600.77 | 598.27 | -2.5002 |
| 21 | 50 | Bias | 599.44 | 600.58 | 1.1324 |
| 22 | 50 | Bias | 599.54 | 598.61 | -0.9389 |
| 23 | 50 | Bias | 599.92 | 600.44 | 0.5214 |
| 24 | 50 | Bias | 599.61 | 599.9 | 0.2836 |
| 25 | 50 | Bias | 600.16 | 600.05 | -0.1018 |
| 26 | 50 | Unbiased | 599 | 598.83 | -0.1697 |
| 27 | 50 | Unbiased | 599.34 | 598.93 | -0.4073 |
| 28 | 50 | Unbiased | 598.8 | 598.83 | 0.0339 |
| 29 | 50 | Unbiased | 598.46 | 598.39 | -0.0679 |
| 30 | 50 | Unbiased | 599.1 | 599.21 | 0.1018 |
| 31 | 0 | Correlation | 599.24 | 599.27 | 0.0339 |
| 32 | 0 | Correlation | 599.48 | 599.41 | -0.0678 |
| 33 | 0 | Correlation | 598.87 | 598.9 | 0.034 |
| 34 | 0 | Correlation | 598.66 | 599.1 | 0.4412 |

## Test Statistics (mV)
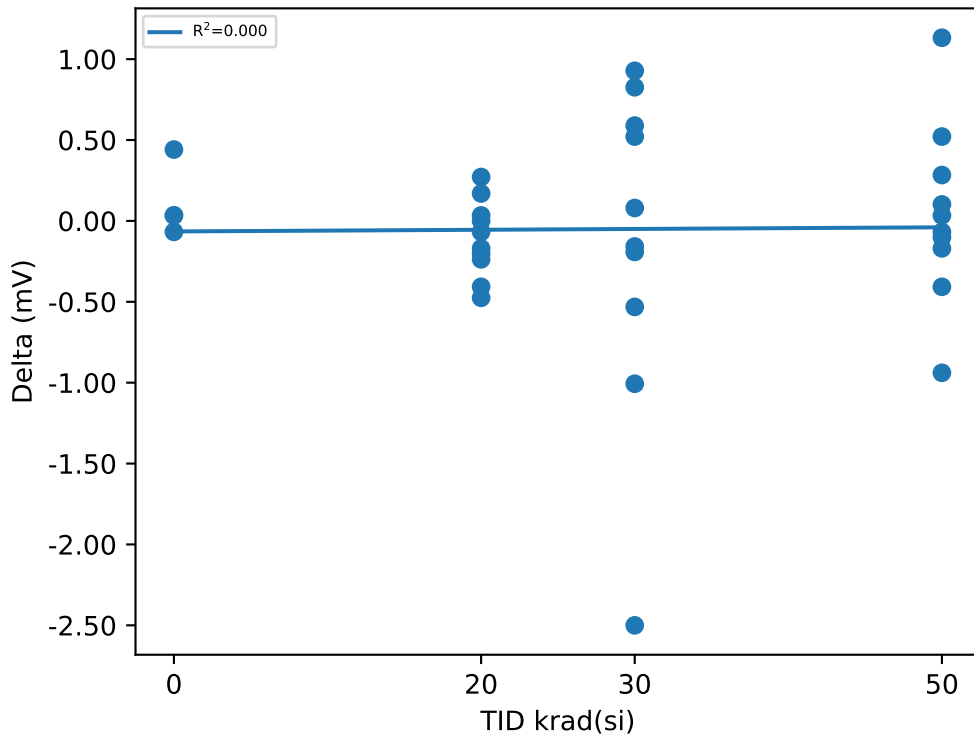
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.66 | 599.06 | 599.48 | 0.36593 | 598.9 | 599.17 | 599.41 | 0.21995 | -0.0678 | 0.11032 | 0.4412 | 0.22574 |
| 20 | 598.32 | 599.24 | 600.7 | 0.72427 | 598.12 | 599.13 | 600.73 | 0.78556 | -0.4752 | -0.10861 | 0.2715 | 0.23774 |
| 30 | 598.32 | 599.49 | 600.77 | 0.72597 | 598.27 | 599.34 | 600.27 | 0.58683 | -2.5002 | -0.14433 | 0.9281 | 1.0311 |
| 50 | 598.46 | 599.34 | 600.16 | 0.51281 | 598.39 | 599.38 | 600.58 | 0.79439 | -0.9389 | 0.03875 | 1.1324 | 0.54998 |

# Device Test: 19.28  VTH_SENSE(_LEVEL|FALL/SENSE2/1.6/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

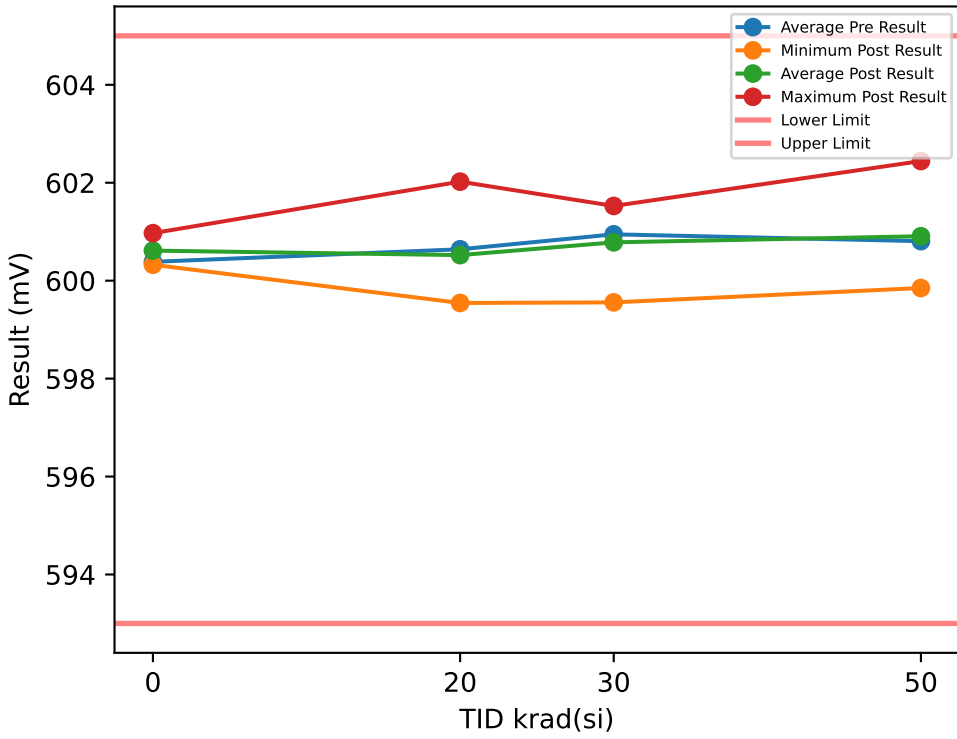| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 600.22 | 600.16 | -0.0679 |
| 2 | 20 | Bias | 600.09 | 599.88 | -0.2036 |
| 3 | 20 | Bias | 599.92 | 600.26 | 0.3394 |
| 4 | 20 | Bias | 602.06 | 602.02 | -0.0339 |
| 5 | 20 | Bias | 599.68 | 599.54 | -0.1358 |
| 6 | 20 | Unbiased | 600.87 | 600.97 | 0.1018 |
| 7 | 20 | Unbiased | 601.21 | 601.31 | 0.1018 |
| 8 | 20 | Unbiased | 600.8 | 600.39 | -0.4072 |
| 9 | 20 | Unbiased | 600.8 | 600.26 | -0.543 |
| 10 | 20 | Unbiased | 600.77 | 600.43 | -0.3394 |
| 11 | 30 | Bias | 601.04 | 600.71 | -0.3269 |
| 12 | 30 | Bias | 600.7 | 600.68 | -0.0214 |
| 13 | 30 | Bias | 599.95 | 600.81 | 0.861 |
| 14 | 30 | Bias | 601.38 | 600.24 | -1.1417 |
| 15 | 30 | Bias | 601.17 | 601.46 | 0.2845 |
| 16 | 30 | Unbiased | 601.07 | 601.53 | 0.4541 |
| 17 | 30 | Unbiased | 600.97 | 600.64 | -0.3269 |
| 18 | 30 | Unbiased | 601.04 | 600.98 | -0.0553 |
| 19 | 30 | Unbiased | 599.92 | 601.22 | 1.3024 |
| 20 | 30 | Unbiased | 602.23 | 599.56 | -2.6692 |
| 21 | 50 | Bias | 601 | 602.44 | 1.4388 |
| 22 | 50 | Bias | 600.97 | 600.37 | -0.5985 |
| 23 | 50 | Bias | 601.24 | 601.63 | 0.3863 |
| 24 | 50 | Bias | 601.14 | 601.22 | 0.0806 |
| 25 | 50 | Bias | 601.58 | 601.62 | 0.0339 |
| 26 | 50 | Unbiased | 600.6 | 600.36 | -0.2376 |
| 27 | 50 | Unbiased | 600.6 | 600.5 | -0.1018 |
| 28 | 50 | Unbiased | 600.29 | 600.33 | 0.034 |
| 29 | 50 | Unbiased | 600.12 | 599.85 | -0.2716 |
| 30 | 50 | Unbiased | 600.53 | 600.77 | 0.2376 |
| 31 | 0 | Correlation | 600.53 | 600.7 | 0.1697 |
| 32 | 0 | Correlation | 600.8 | 600.97 | 0.1697 |
| 33 | 0 | Correlation | 600.12 | 600.33 | 0.2036 |
| 34 | 0 | Correlation | 600.09 | 600.46 | 0.3733 |

## Test Statistics (mV)
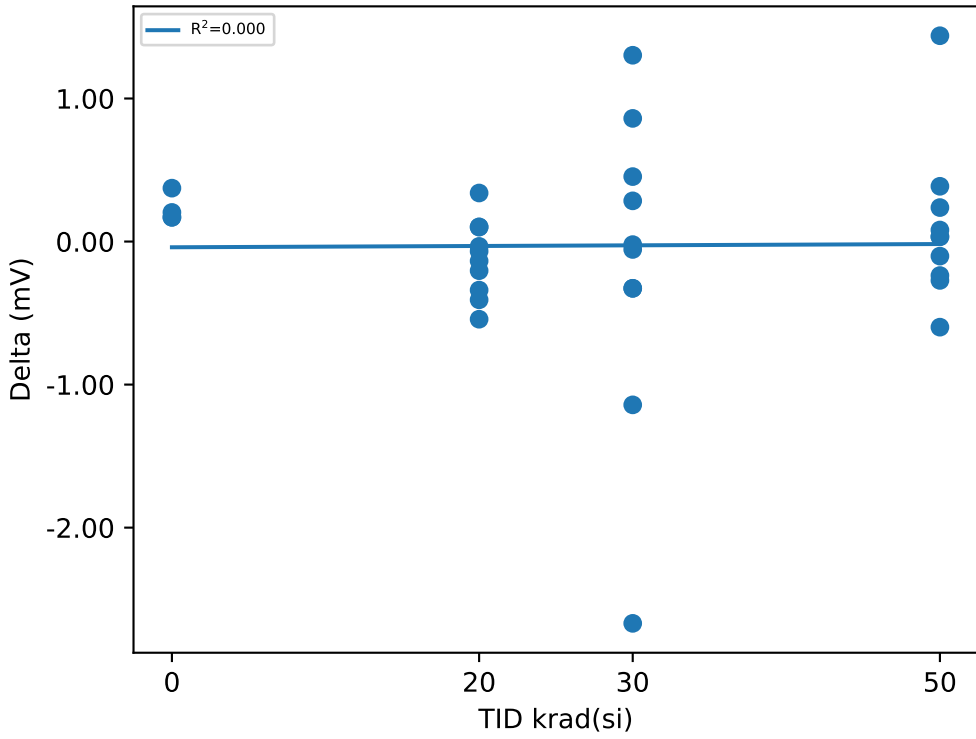
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 600.09 | 600.38 | 600.8 | 0.34204 | 600.33 | 600.61 | 600.97 | 0.28327 | 0.1697 | 0.22907 | 0.3733 | 0.097469 |
| 20 | 599.68 | 600.64 | 602.06 | 0.69663 | 599.54 | 600.52 | 602.02 | 0.72522 | -0.543 | -0.11878 | 0.3394 | 0.2659 |
| 30 | 599.92 | 600.95 | 602.23 | 0.66793 | 599.56 | 600.78 | 601.53 | 0.58495 | -2.6692 | -0.16394 | 1.3024 | 1.1106 |
| 50 | 600.12 | 600.81 | 601.58 | 0.45527 | 599.85 | 600.91 | 602.44 | 0.79648 | -0.5985 | 0.10017 | 1.4388 | 0.546 |

# Device Test: 19.29  VTH_SENSE(_LEVEL|RISE/SENSE3/1.6/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

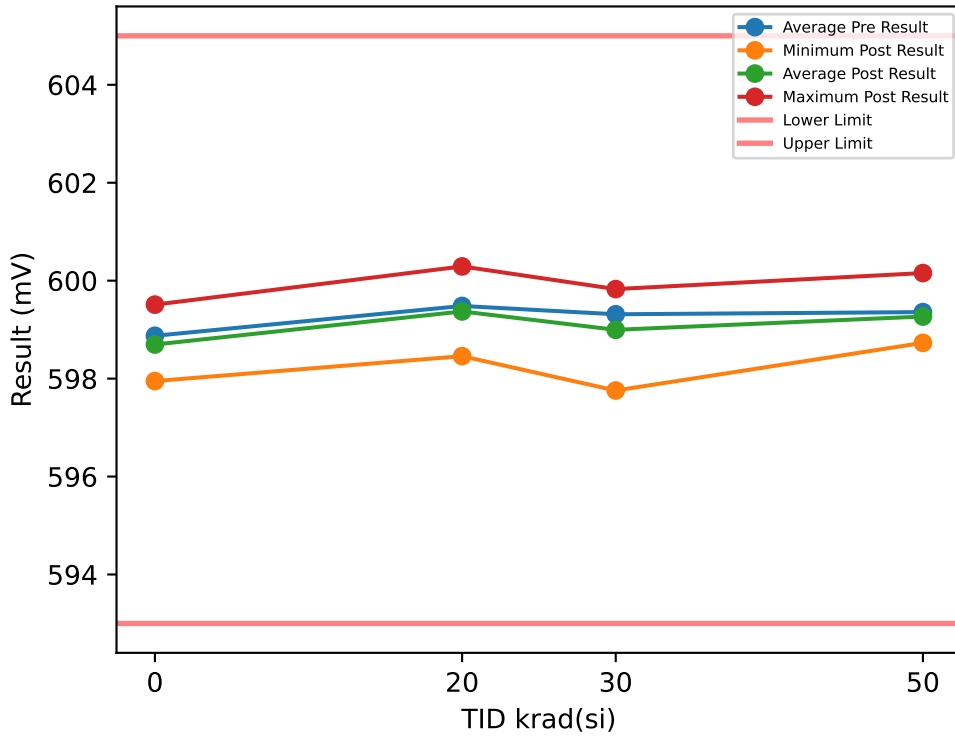| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.16 | 600.02 | -0.1358 |
| 2 | 20 | Bias | 599.04 | 598.73 | -0.3054 |
| 3 | 20 | Bias | 599.31 | 599.48 | 0.1697 |
| 4 | 20 | Bias | 600.43 | 600.29 | -0.1358 |
| 5 | 20 | Bias | 598.73 | 598.46 | -0.2715 |
| 6 | 20 | Unbiased | 598.8 | 599.04 | 0.2375 |
| 7 | 20 | Unbiased | 599.38 | 599.38 | 0 |
| 8 | 20 | Unbiased | 600.16 | 599.75 | -0.4073 |
| 9 | 20 | Unbiased | 599.58 | 599.48 | -0.1018 |
| 10 | 20 | Unbiased | 599.27 | 599.1 | -0.1697 |
| 11 | 30 | Bias | 600.19 | 597.76 | -2.4326 |
| 12 | 30 | Bias | 599.27 | 599.83 | 0.5551 |
| 13 | 30 | Bias | 598.87 | 598.95 | 0.0795 |
| 14 | 30 | Bias | 599.54 | 599.15 | -0.3956 |
| 15 | 30 | Bias | 599.48 | 599.45 | -0.0221 |
| 16 | 30 | Unbiased | 599.88 | 599.22 | -0.667 |
| 17 | 30 | Unbiased | 599 | 599.15 | 0.1474 |
| 18 | 30 | Unbiased | 599.04 | 599.01 | -0.0223 |
| 19 | 30 | Unbiased | 598.76 | 598.98 | 0.2153 |
| 20 | 30 | Unbiased | 599.1 | 598.47 | -0.6334 |
| 21 | 50 | Bias | 599.34 | 598.98 | -0.3617 |
| 22 | 50 | Bias | 599.38 | 598.98 | -0.3956 |
| 23 | 50 | Bias | 599.51 | 599.83 | 0.3175 |
| 24 | 50 | Bias | 599.68 | 599.62 | -0.056 |
| 25 | 50 | Bias | 600.05 | 600.16 | 0.1018 |
| 26 | 50 | Unbiased | 599.1 | 598.87 | -0.2376 |
| 27 | 50 | Unbiased | 599.75 | 599.51 | -0.2375 |
| 28 | 50 | Unbiased | 599.07 | 599 | -0.0679 |
| 29 | 50 | Unbiased | 599 | 599 | 0 |
| 30 | 50 | Unbiased | 598.7 | 598.73 | 0.0339 |
| 31 | 0 | Correlation | 598.8 | 598.59 | -0.2037 |
| 32 | 0 | Correlation | 599.71 | 599.51 | -0.2036 |
| 33 | 0 | Correlation | 598.7 | 598.73 | 0.0339 |
| 34 | 0 | Correlation | 598.29 | 597.95 | -0.3394 |

## Test Statistics (mV)
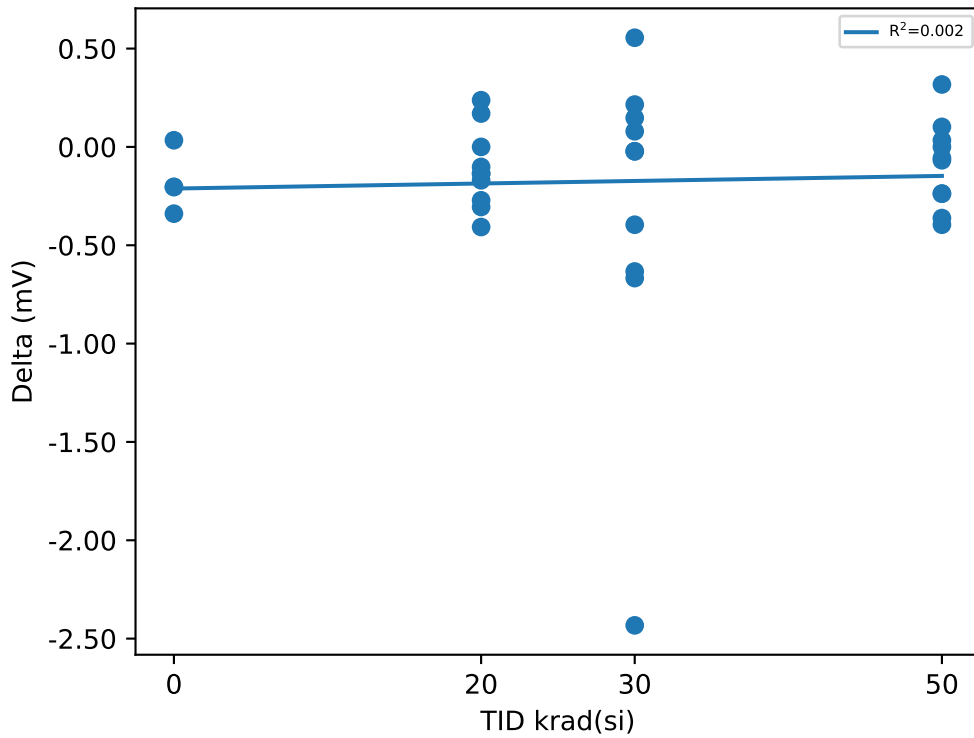
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.29 | 598.87 | 599.71 | 0.60162 | 597.95 | 598.7 | 599.51 | 0.64096 | -0.3394 | -0.1782 | 0.0339 | 0.15521 |
| 20 | 598.73 | 599.48 | 600.43 | 0.58952 | 598.46 | 599.37 | 600.29 | 0.56368 | -0.4073 | -0.11201 | 0.2375 | 0.20239 |
| 30 | 598.76 | 599.31 | 600.19 | 0.45892 | 597.76 | 599 | 599.83 | 0.55916 | -2.4326 | -0.31757 | 0.5551 | 0.83634 |
| 50 | 598.7 | 599.36 | 600.05 | 0.40513 | 598.73 | 599.27 | 600.16 | 0.47693 | -0.3956 | -0.09031 | 0.3175 | 0.22078 |

# Device Test: 19.3   VTH_SENSE(_LEVEL|RISE/SENSE1/1.6/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

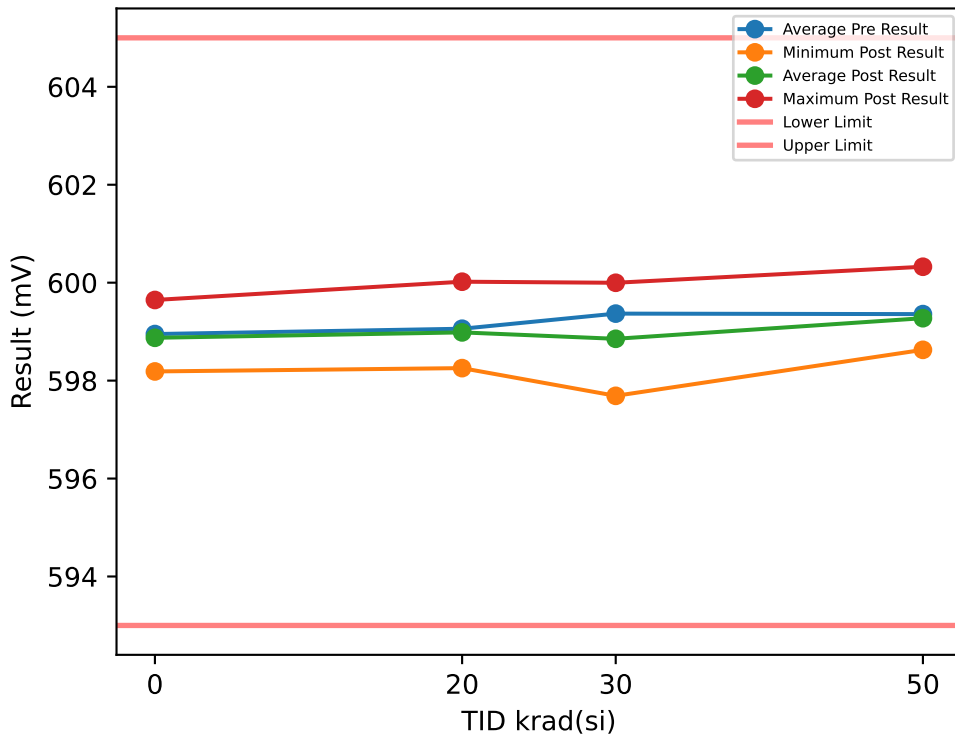| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 599.24 | 599.07 | -0.1697 |
| 2 | 20 | Bias | 598.56 | 598.66 | 0.1018 |
| 3 | 20 | Bias | 598.9 | 599.17 | 0.2715 |
| 4 | 20 | Bias | 600.05 | 600.02 | -0.034 |
| 5 | 20 | Bias | 598.26 | 598.26 | 0 |
| 6 | 20 | Unbiased | 599.07 | 599.31 | 0.2375 |
| 7 | 20 | Unbiased | 598.87 | 598.66 | -0.2036 |
| 8 | 20 | Unbiased | 599.38 | 598.93 | -0.4412 |
| 9 | 20 | Unbiased | 599.14 | 598.9 | -0.2375 |
| 10 | 20 | Unbiased | 599.14 | 598.87 | -0.2715 |
| 11 | 30 | Bias | 598.76 | 597.69 | -1.075 |
| 12 | 30 | Bias | 599.34 | 598.03 | -1.3125 |
| 13 | 30 | Bias | 598.8 | 599.42 | 0.6227 |
| 14 | 30 | Bias | 599.88 | 598.64 | -1.2443 |
| 15 | 30 | Bias | 599.85 | 599.45 | -0.3954 |
| 16 | 30 | Unbiased | 599.78 | 600 | 0.2157 |
| 17 | 30 | Unbiased | 599.07 | 599.12 | 0.0456 |
| 18 | 30 | Unbiased | 599.04 | 599.32 | 0.2833 |
| 19 | 30 | Unbiased | 599.21 | 598.5 | -0.7013 |
| 20 | 30 | Unbiased | 599.95 | 598.37 | -1.5838 |
| 21 | 50 | Bias | 598.97 | 599.69 | 0.7246 |
| 22 | 50 | Bias | 599.34 | 598.78 | -0.5655 |
| 23 | 50 | Bias | 600.19 | 599.62 | -0.565 |
| 24 | 50 | Bias | 599.75 | 599.79 | 0.046 |
| 25 | 50 | Bias | 600.39 | 600.33 | -0.0679 |
| 26 | 50 | Unbiased | 598.73 | 598.63 | -0.1018 |
| 27 | 50 | Unbiased | 599.34 | 598.7 | -0.6448 |
| 28 | 50 | Unbiased | 599.1 | 599 | -0.1018 |
| 29 | 50 | Unbiased | 598.63 | 598.73 | 0.1018 |
| 30 | 50 | Unbiased | 599.14 | 599.48 | 0.3394 |
| 31 | 0 | Correlation | 598.8 | 598.73 | -0.0679 |
| 32 | 0 | Correlation | 599.92 | 599.65 | -0.2715 |
| 33 | 0 | Correlation | 598.83 | 598.93 | 0.1018 |
| 34 | 0 | Correlation | 598.26 | 598.19 | -0.0679 |

## Test Statistics (mV)
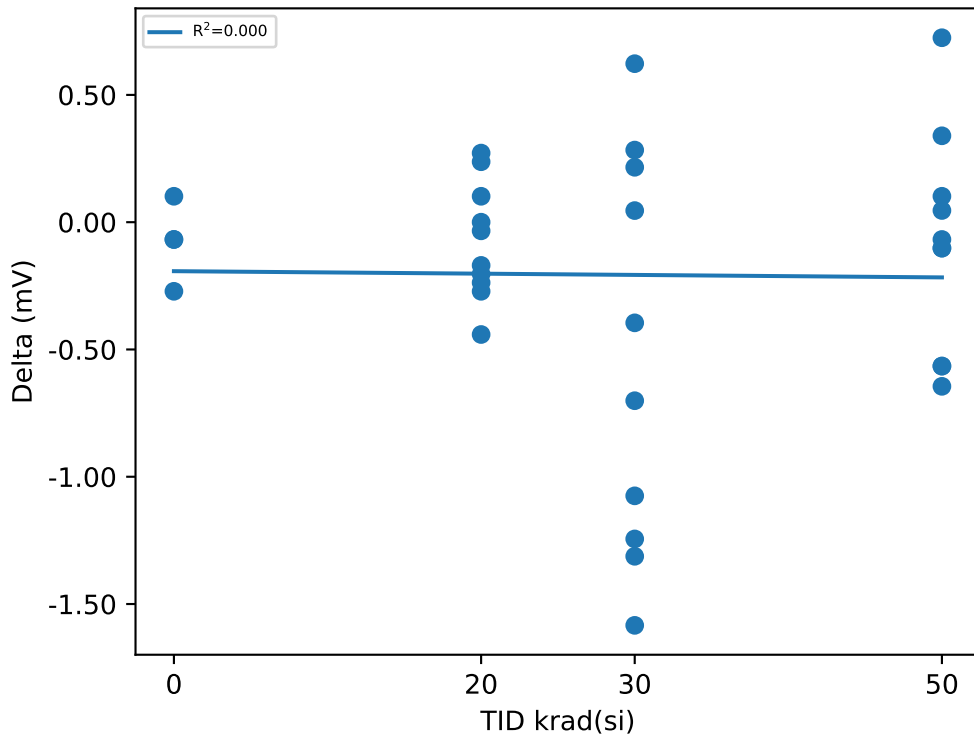
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.26 | 598.95 | 599.92 | 0.69688 | 598.19 | 598.87 | 599.65 | 0.60352 | -0.2715 | -0.076375 | 0.1018 | 0.15271 |
| 20 | 598.26 | 599.06 | 600.05 | 0.4821 | 598.26 | 598.98 | 600.02 | 0.46922 | -0.4412 | -0.07467 | 0.2715 | 0.23116 |
| 30 | 598.76 | 599.37 | 599.95 | 0.4628 | 597.69 | 598.85 | 600 | 0.72402 | -1.5838 | -0.5145 | 0.6227 | 0.77836 |
| 50 | 598.63 | 599.36 | 600.39 | 0.58766 | 598.63 | 599.27 | 600.33 | 0.58536 | -0.6448 | -0.0835 | 0.7246 | 0.42987 |

# Device Test: 19.30  VTH_SENSE(_LEVEL|FALL/SENSE3/1.6/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

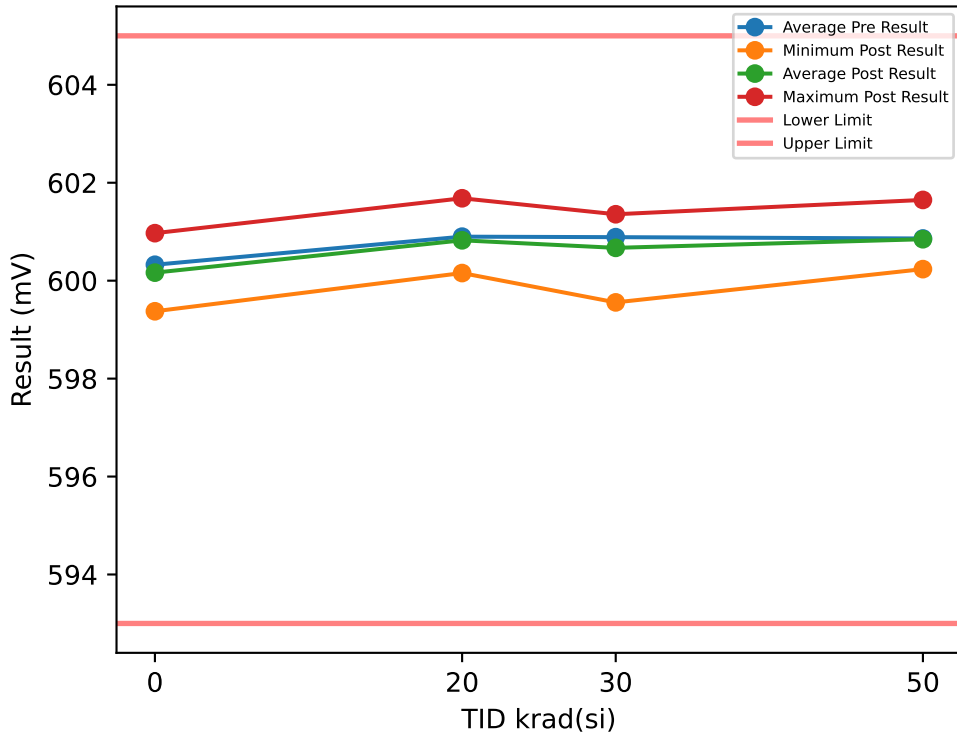| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 601.31 | 601.31 | 0 |
| 2 | 20 | Bias | 600.22 | 600.29 | 0.0678 |
| 3 | 20 | Bias | 600.5 | 600.87 | 0.3733 |
| 4 | 20 | Bias | 601.95 | 601.68 | -0.2715 |
| 5 | 20 | Bias | 600.22 | 600.16 | -0.0679 |
| 6 | 20 | Unbiased | 600.33 | 600.6 | 0.2715 |
| 7 | 20 | Unbiased | 600.9 | 600.87 | -0.0339 |
| 8 | 20 | Unbiased | 601.58 | 601.24 | -0.3394 |
| 9 | 20 | Unbiased | 601.11 | 600.83 | -0.2715 |
| 10 | 20 | Unbiased | 600.87 | 600.39 | -0.4751 |
| 11 | 30 | Bias | 601.78 | 599.56 | -2.228 |
| 12 | 30 | Bias | 600.83 | 601.36 | 0.5219 |
| 13 | 30 | Bias | 600.56 | 600.88 | 0.3181 |
| 14 | 30 | Bias | 600.9 | 600.75 | -0.1572 |
| 15 | 30 | Bias | 601 | 601.02 | 0.0127 |
| 16 | 30 | Unbiased | 601.24 | 601.15 | -0.089 |
| 17 | 30 | Unbiased | 600.56 | 601.12 | 0.5558 |
| 18 | 30 | Unbiased | 600.56 | 600.47 | -0.0894 |
| 19 | 30 | Unbiased | 600.46 | 600.51 | 0.0464 |
| 20 | 30 | Unbiased | 600.97 | 599.9 | -1.0739 |
| 21 | 50 | Bias | 600.77 | 600.91 | 0.1484 |
| 22 | 50 | Bias | 600.83 | 600.24 | -0.5987 |
| 23 | 50 | Bias | 600.87 | 601.59 | 0.7256 |
| 24 | 50 | Bias | 601.17 | 601.15 | -0.0211 |
| 25 | 50 | Bias | 601.68 | 601.65 | -0.0339 |
| 26 | 50 | Unbiased | 600.56 | 600.43 | -0.1357 |
| 27 | 50 | Unbiased | 601.17 | 601.14 | -0.0339 |
| 28 | 50 | Unbiased | 600.56 | 600.5 | -0.0678 |
| 29 | 50 | Unbiased | 600.6 | 600.5 | -0.1018 |
| 30 | 50 | Unbiased | 600.39 | 600.36 | -0.034 |
| 31 | 0 | Correlation | 600.26 | 600.22 | -0.0339 |
| 32 | 0 | Correlation | 601.17 | 600.97 | -0.2036 |
| 33 | 0 | Correlation | 600.12 | 600.09 | -0.034 |
| 34 | 0 | Correlation | 599.75 | 599.38 | -0.3733 |

## Test Statistics (mV)
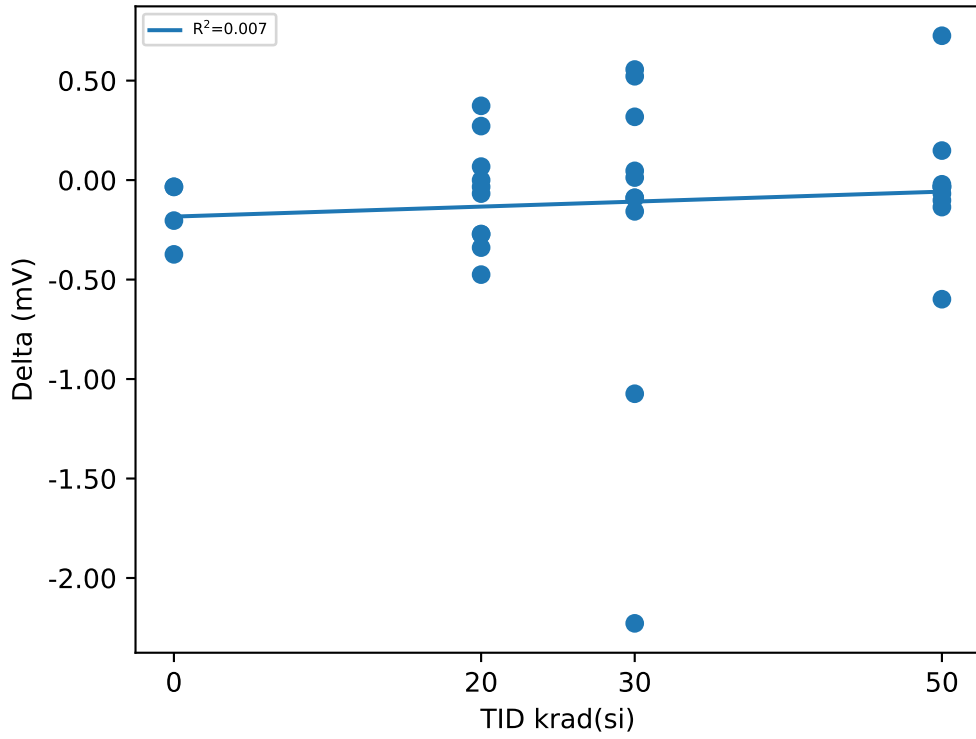
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 599.75 | 600.33 | 601.17 | 0.60519 | 599.38 | 600.16 | 600.97 | 0.65363 | -0.3733 | -0.1612 | -0.0339 | 0.16245 |
| 20 | 600.22 | 600.9 | 601.95 | 0.59591 | 600.16 | 600.82 | 601.68 | 0.48527 | -0.4751 | -0.07467 | 0.3733 | 0.26998 |
| 30 | 600.46 | 600.89 | 601.78 | 0.40163 | 599.56 | 600.67 | 601.36 | 0.57532 | -2.228 | -0.21826 | 0.5558 | 0.84105 |
| 50 | 600.39 | 600.86 | 601.68 | 0.38688 | 600.24 | 600.85 | 601.65 | 0.51859 | -0.5987 | -0.01529 | 0.7256 | 0.3235 |

# Device Test: 19.31  VTH_SENSE(_LEVEL|RISE/SENSE4/1.6/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

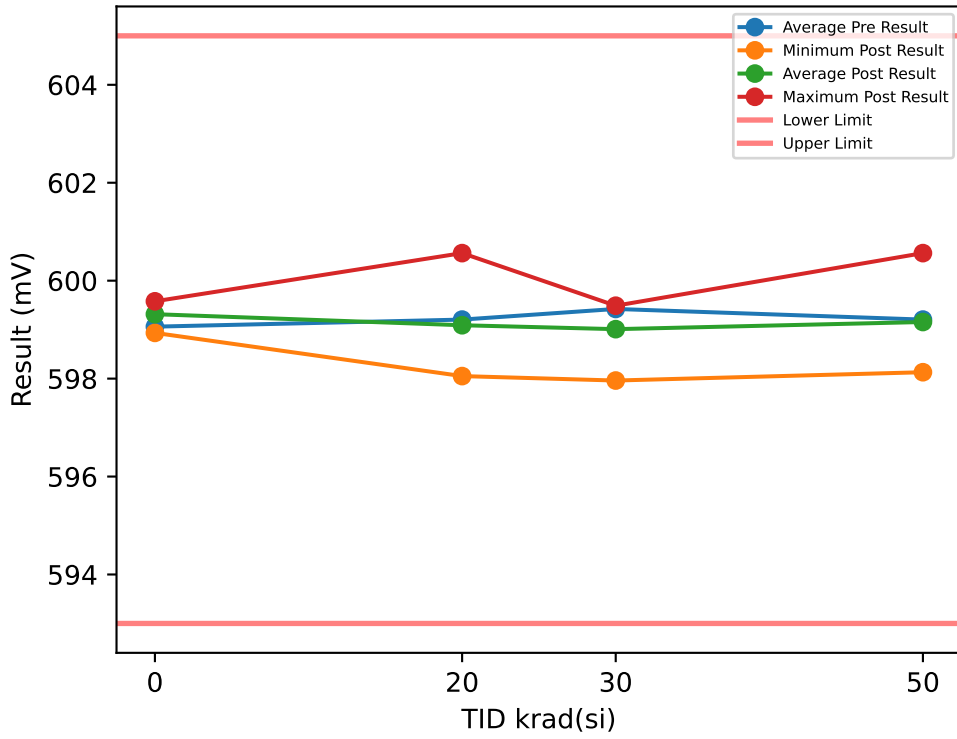| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 598.7 | 598.63 | -0.0679 |
| 2 | 20 | Bias | 599.75 | 599.17 | -0.5769 |
| 3 | 20 | Bias | 598.49 | 598.87 | 0.3733 |
| 4 | 20 | Bias | 600.73 | 600.56 | -0.1697 |
| 5 | 20 | Bias | 598.02 | 598.05 | 0.0339 |
| 6 | 20 | Unbiased | 599.34 | 599.54 | 0.2036 |
| 7 | 20 | Unbiased | 599.92 | 600.09 | 0.1697 |
| 8 | 20 | Unbiased | 599.27 | 598.8 | -0.4751 |
| 9 | 20 | Unbiased | 598.97 | 598.46 | -0.5091 |
| 10 | 20 | Unbiased | 598.87 | 598.73 | -0.1357 |
| 11 | 30 | Bias | 600.09 | 599.45 | -0.633 |
| 12 | 30 | Bias | 599.04 | 599.32 | 0.2833 |
| 13 | 30 | Bias | 598.59 | 598.88 | 0.2831 |
| 14 | 30 | Bias | 599.65 | 599.05 | -0.5992 |
| 15 | 30 | Bias | 599.61 | 599.29 | -0.3276 |
| 16 | 30 | Unbiased | 600.19 | 599.29 | -0.9045 |
| 17 | 30 | Unbiased | 599.04 | 599.49 | 0.4531 |
| 18 | 30 | Unbiased | 599.04 | 598.81 | -0.226 |
| 19 | 30 | Unbiased | 598.7 | 598.57 | -0.1244 |
| 20 | 30 | Unbiased | 600.29 | 597.96 | -2.3306 |
| 21 | 50 | Bias | 598.93 | 600 | 1.0642 |
| 22 | 50 | Bias | 599.14 | 598.13 | -1.0069 |
| 23 | 50 | Bias | 599.41 | 599.42 | 0.0118 |
| 24 | 50 | Bias | 599.88 | 599.35 | -0.5312 |
| 25 | 50 | Bias | 600.22 | 600.56 | 0.3393 |
| 26 | 50 | Unbiased | 598.93 | 598.76 | -0.1697 |
| 27 | 50 | Unbiased | 599.65 | 599.31 | -0.3394 |
| 28 | 50 | Unbiased | 598.73 | 598.63 | -0.1018 |
| 29 | 50 | Unbiased | 598.42 | 598.49 | 0.0678 |
| 30 | 50 | Unbiased | 598.73 | 598.9 | 0.1697 |
| 31 | 0 | Correlation | 599.17 | 599.21 | 0.0339 |
| 32 | 0 | Correlation | 599.58 | 599.58 | 0 |
| 33 | 0 | Correlation | 598.76 | 598.93 | 0.1697 |
| 34 | 0 | Correlation | 598.73 | 599.54 | 0.8145 |

## Test Statistics (mV)
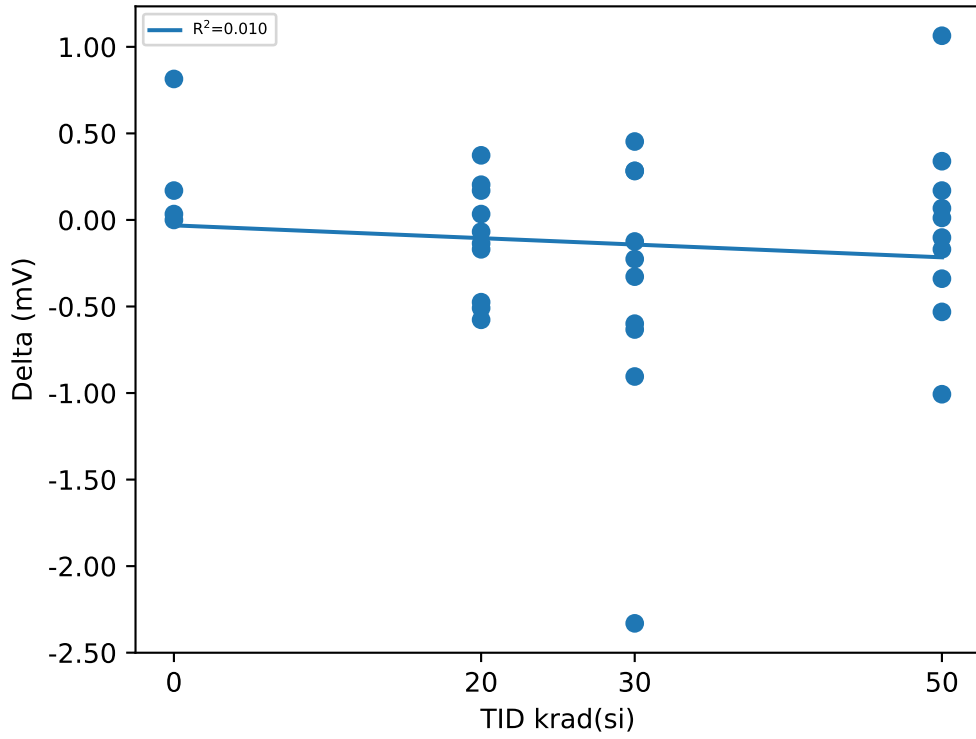
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.73 | 599.06 | 599.58 | 0.39903 | 598.93 | 599.32 | 599.58 | 0.30528 | 0 | 0.25453 | 0.8145 | 0.38045 |
| 20 | 598.02 | 599.21 | 600.73 | 0.78228 | 598.05 | 599.09 | 600.56 | 0.76978 | -0.5769 | -0.11539 | 0.3733 | 0.3244 |
| 30 | 598.59 | 599.42 | 600.29 | 0.62664 | 597.96 | 599.01 | 599.49 | 0.47442 | -2.3306 | -0.41258 | 0.4531 | 0.80601 |
| 50 | 598.42 | 599.21 | 600.22 | 0.57216 | 598.13 | 599.16 | 600.56 | 0.73099 | -1.0069 | -0.04962 | 1.0642 | 0.54843 |

# Device Test: 19.32  VTH_SENSE(_LEVEL|FALL/SENSE4/1.6/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.001$

## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

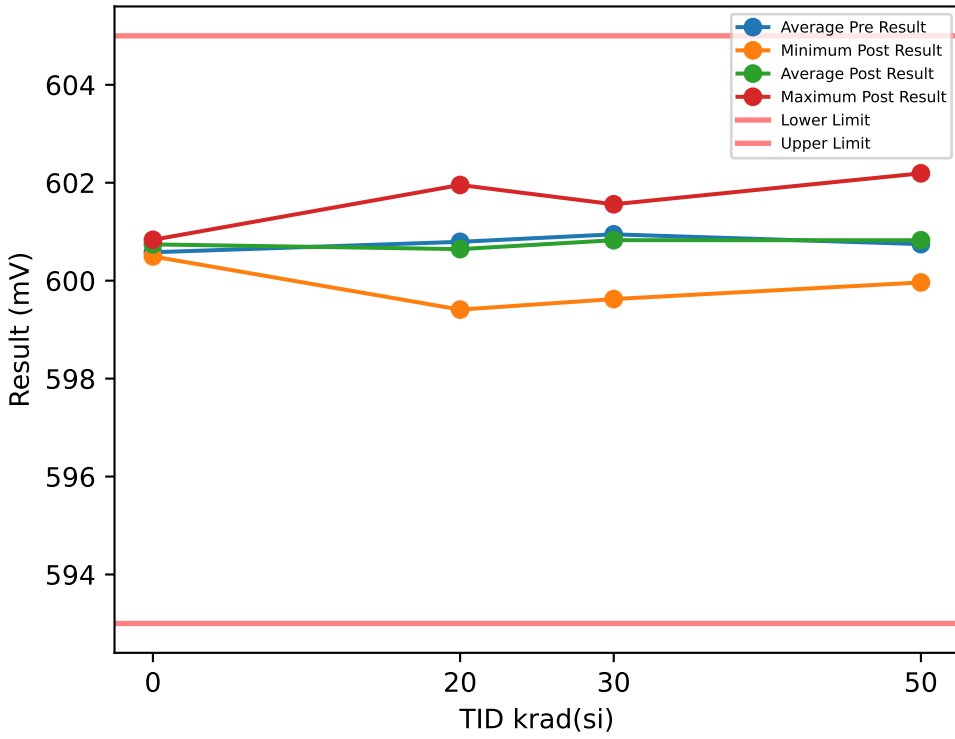| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.16 | 600.05 | -0.1018 |
| 2 | 20 | Bias | 601.07 | 601.07 | 0 |
| 3 | 20 | Bias | 600.16 | 600.36 | 0.2036 |
| 4 | 20 | Bias | 602.12 | 601.95 | -0.1697 |
| 5 | 20 | Bias | 599.71 | 599.41 | -0.3054 |
| 6 | 20 | Unbiased | 601.11 | 600.94 | -0.1697 |
| 7 | 20 | Unbiased | 601.55 | 601.85 | 0.3054 |
| 8 | 20 | Unbiased | 600.73 | 600.43 | -0.3054 |
| 9 | 20 | Unbiased | 600.66 | 600.09 | -0.577 |
| 10 | 20 | Unbiased | 600.66 | 600.29 | -0.3734 |
| 11 | 30 | Bias | 601.48 | 600.95 | -0.5304 |
| 12 | 30 | Bias | 600.63 | 601.15 | 0.5219 |
| 13 | 30 | Bias | 600.19 | 600.75 | 0.5555 |
| 14 | 30 | Bias | 601.21 | 600.27 | -0.938 |
| 15 | 30 | Bias | 600.87 | 601.32 | 0.454 |
| 16 | 30 | Unbiased | 601.51 | 601.12 | -0.3945 |
| 17 | 30 | Unbiased | 600.77 | 601.56 | 0.7935 |
| 18 | 30 | Unbiased | 600.73 | 600.91 | 0.1824 |
| 19 | 30 | Unbiased | 600.22 | 600.61 | 0.3858 |
| 20 | 30 | Unbiased | 601.85 | 599.62 | -2.228 |
| 21 | 50 | Bias | 600.66 | 602.04 | 1.3707 |
| 22 | 50 | Bias | 600.56 | 599.96 | -0.5987 |
| 23 | 50 | Bias | 600.7 | 601.25 | 0.5558 |
| 24 | 50 | Bias | 601.48 | 600.88 | -0.5983 |
| 25 | 50 | Bias | 602.02 | 602.19 | 0.1697 |
| 26 | 50 | Unbiased | 600.46 | 600.43 | -0.0339 |
| 27 | 50 | Unbiased | 601.04 | 600.77 | -0.2715 |
| 28 | 50 | Unbiased | 600.36 | 600.16 | -0.2036 |
| 29 | 50 | Unbiased | 599.88 | 600.02 | 0.1357 |
| 30 | 50 | Unbiased | 600.29 | 600.56 | 0.2715 |
| 31 | 0 | Correlation | 600.83 | 600.8 | -0.034 |
| 32 | 0 | Correlation | 600.94 | 600.83 | -0.1018 |
| 33 | 0 | Correlation | 600.46 | 600.5 | 0.034 |
| 34 | 0 | Correlation | 600.09 | 600.83 | 0.7467 |

## Test Statistics (mV)
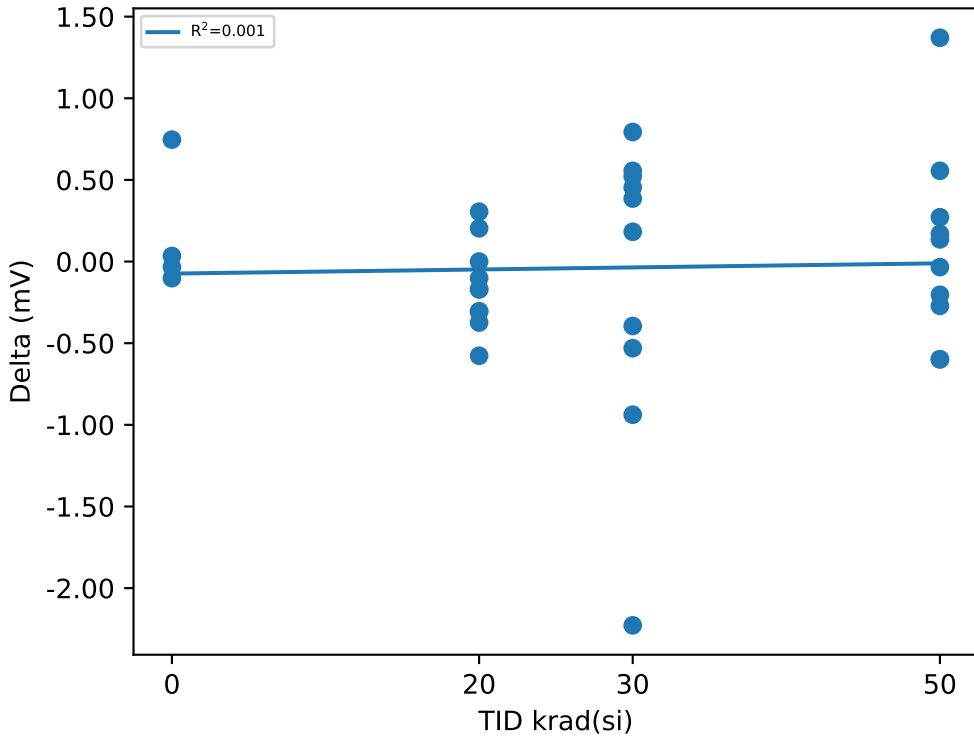
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 600.09 | 600.58 | 600.94 | 0.38649 | 600.5 | 600.74 | 600.83 | 0.16481 | -0.1018 | 0.16123 | 0.7467 | 0.39423 |
| 20 | 599.71 | 600.79 | 602.12 | 0.70934 | 599.41 | 600.64 | 601.95 | 0.80839 | -0.577 | -0.14934 | 0.3054 | 0.26636 |
| 30 | 600.19 | 600.95 | 601.85 | 0.55515 | 599.62 | 600.83 | 601.56 | 0.55846 | -2.228 | -0.11978 | 0.7935 | 0.92713 |
| 50 | 599.88 | 600.75 | 602.02 | 0.62133 | 599.96 | 600.83 | 602.19 | 0.78804 | -0.5987 | 0.07974 | 1.3707 | 0.58479 |

# Device Test: 19.33  UP_DOWN_VHYS(_LEVEL|HYS/UP/1.6/14/0/0/0/@UP_DOWN_VHYS )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (No Limits Specified (mV))

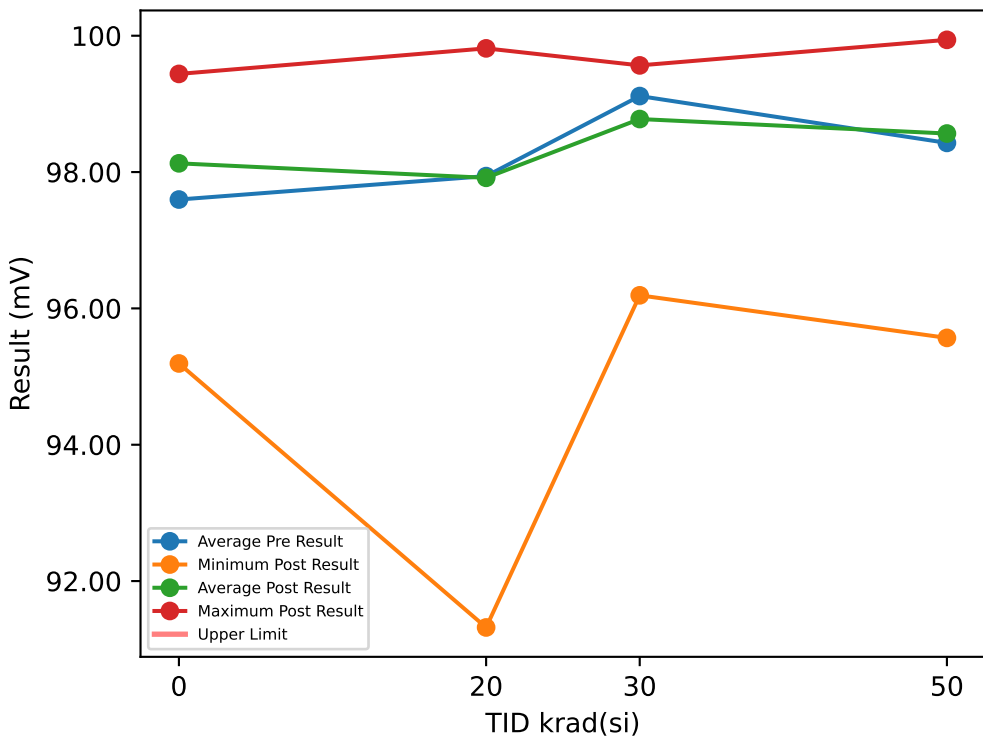| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 99.565 | 99.69 | 0.1249 |
| 2 | 20 | Bias | 99.69 | 99.565 | -0.1249 |
| 3 | 20 | Bias | 99.565 | 99.565 | 0.0001 |
| 4 | 20 | Bias | 99.69 | 99.815 | 0.1249 |
| 5 | 20 | Bias | 96.691 | 97.816 | 1.1244 |
| 6 | 20 | Unbiased | 99.44 | 99.815 | 0.3749 |
| 7 | 20 | Unbiased | 90.945 | 91.32 | 0.3747 |
| 8 | 20 | Unbiased | 98.066 | 96.317 | -1.7489 |
| 9 | 20 | Unbiased | 99.315 | 99.69 | 0.3748 |
| 10 | 20 | Unbiased | 96.442 | 95.567 | -0.8744 |
| 11 | 30 | Bias | 99.69 | 99.19 | -0.4995 |
| 12 | 30 | Bias | 99.315 | 99.19 | -0.1247 |
| 13 | 30 | Bias | 98.44 | 99.19 | 0.7498 |
| 14 | 30 | Bias | 99.315 | 97.691 | -1.6238 |
| 15 | 30 | Bias | 97.066 | 99.19 | 2.124 |
| 16 | 30 | Unbiased | 99.19 | 96.192 | -2.9981 |
| 17 | 30 | Unbiased | 99.315 | 98.691 | -0.6244 |
| 18 | 30 | Unbiased | 99.69 | 99.565 | -0.1248 |
| 19 | 30 | Unbiased | 99.44 | 99.44 | 0.0003 |
| 20 | 30 | Unbiased | 99.69 | 99.44 | -0.2497 |
| 21 | 50 | Bias | 96.691 | 99.94 | 3.2483 |
| 22 | 50 | Bias | 95.817 | 96.567 | 0.7497 |
| 23 | 50 | Bias | 98.066 | 95.567 | -2.4983 |
| 24 | 50 | Bias | 99.565 | 98.316 | -1.249 |
| 25 | 50 | Bias | 99.565 | 99.814 | 0.2498 |
| 26 | 50 | Unbiased | 100.06 | 99.815 | -0.2499 |
| 27 | 50 | Unbiased | 99.315 | 99.69 | 0.3748 |
| 28 | 50 | Unbiased | 99.44 | 99.19 | -0.2498 |
| 29 | 50 | Unbiased | 99.315 | 99.44 | 0.1249 |
| 30 | 50 | Unbiased | 96.442 | 97.316 | 0.8746 |
| 31 | 0 | Correlation | 99.565 | 99.44 | -0.1249 |
| 32 | 0 | Correlation | 98.44 | 98.565 | 0.1249 |
| 33 | 0 | Correlation | 95.317 | 95.192 | -0.125 |
| 34 | 0 | Correlation | 97.066 | 99.315 | 2.2486 |
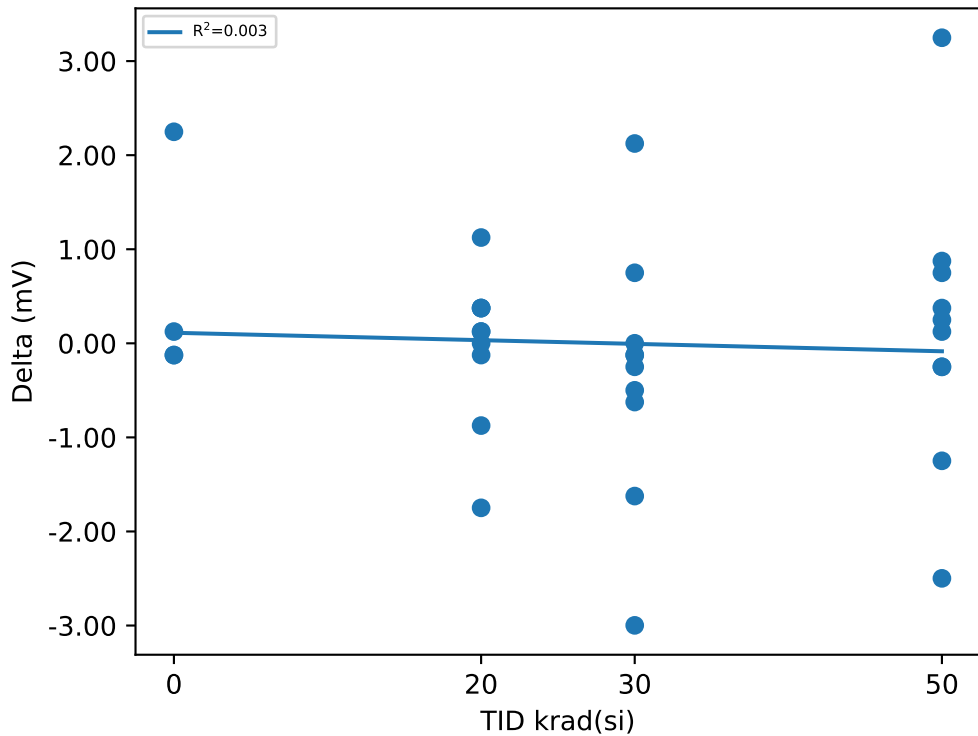
## Test Statistics (mV)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 95.317 | 97.597 | 99.565 | 1.8314 | 95.192 | 98.128 | 99.44 | 1.9949 | -0.125 | 0.5309 | 2.2486 | 1.1512 |
| 20 | 90.945 | 97.941 | 99.69 | 2.7546 | 91.32 | 97.916 | 99.815 | 2.7995 | -1.7489 | -0.02495 | 1.1244 | 0.78525 |
| 30 | 97.066 | 99.115 | 99.69 | 0.80792 | 96.192 | 98.778 | 99.565 | 1.0568 | -2.9981 | -0.33709 | 2.124 | 1.3456 |
| 50 | 95.817 | 98.428 | 100.06 | 1.5553 | 95.567 | 98.565 | 99.94 | 1.5647 | -2.4983 | 0.13751 | 3.2483 | 1.4845 |

# Device Test: 19.34  VTH_UP(_LEVEL|RISE/UP/7/14/0/0/0/@VTH_UP )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 580.0, Upper Limit = 615.0 (mV))

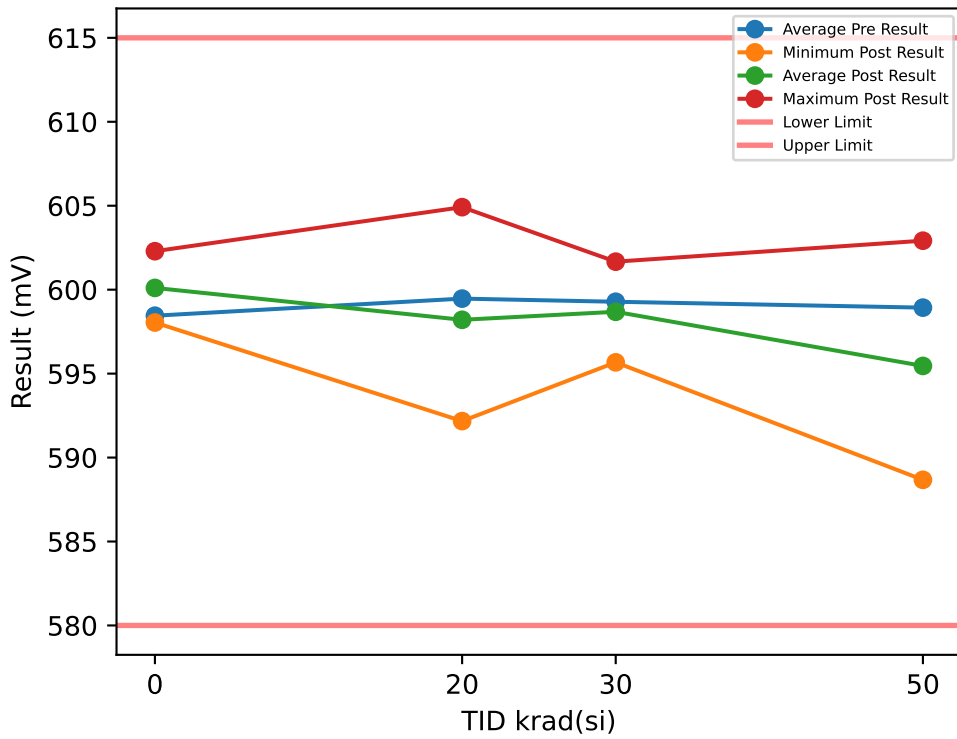| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 603.79 | 604.91 | 1.1244 |
| 2 | 20 | Bias | 600.04 | 598.42 | -1.6239 |
| 3 | 20 | Bias | 598.04 | 598.92 | 0.8745 |
| 4 | 20 | Bias | 602.67 | 602.04 | -0.6246 |
| 5 | 20 | Bias | 597.79 | 597.04 | -0.7495 |
| 6 | 20 | Unbiased | 601.79 | 598.67 | -3.1231 |
| 7 | 20 | Unbiased | 594.3 | 592.17 | -2.1238 |
| 8 | 20 | Unbiased | 598.17 | 595.42 | -2.7484 |
| 9 | 20 | Unbiased | 599.04 | 598.42 | -0.6246 |
| 10 | 20 | Unbiased | 599.04 | 596.04 | -2.9982 |
| 11 | 30 | Bias | 601.29 | 601.67 | 0.3765 |
| 12 | 30 | Bias | 600.17 | 599.67 | -0.498 |
| 13 | 30 | Bias | 599.54 | 598.05 | -1.4973 |
| 14 | 30 | Bias | 599.79 | 597.3 | -2.4967 |
| 15 | 30 | Bias | 596.92 | 598.42 | 1.5008 |
| 16 | 30 | Unbiased | 597.04 | 595.67 | -1.3725 |
| 17 | 30 | Unbiased | 599.17 | 596.67 | -2.4967 |
| 18 | 30 | Unbiased | 599.67 | 600.04 | 0.3765 |
| 19 | 30 | Unbiased | 599.54 | 599.92 | 0.3765 |
| 20 | 30 | Unbiased | 599.67 | 599.42 | -0.2481 |
| 21 | 50 | Bias | 598.54 | 598.42 | -0.1232 |
| 22 | 50 | Bias | 597.29 | 597.55 | 0.2516 |
| 23 | 50 | Bias | 599.04 | 596.42 | -2.6218 |
| 24 | 50 | Bias | 597.54 | 602.92 | 5.3735 |
| 25 | 50 | Bias | 601.67 | 600.04 | -1.624 |
| 26 | 50 | Unbiased | 599.04 | 591.8 | -7.2456 |
| 27 | 50 | Unbiased | 597.79 | 591.05 | -6.7459 |
| 28 | 50 | Unbiased | 603.54 | 596.04 | -7.4954 |
| 29 | 50 | Unbiased | 599.54 | 591.67 | -7.8702 |
| 30 | 50 | Unbiased | 595.3 | 588.67 | -6.621 |
| 31 | 0 | Correlation | 601.67 | 601.79 | 0.125 |
| 32 | 0 | Correlation | 597.92 | 598.04 | 0.125 |
| 33 | 0 | Correlation | 598.29 | 598.29 | 0 |
| 34 | 0 | Correlation | 595.92 | 602.29 | 6.3712 |

## Test Statistics (mV)
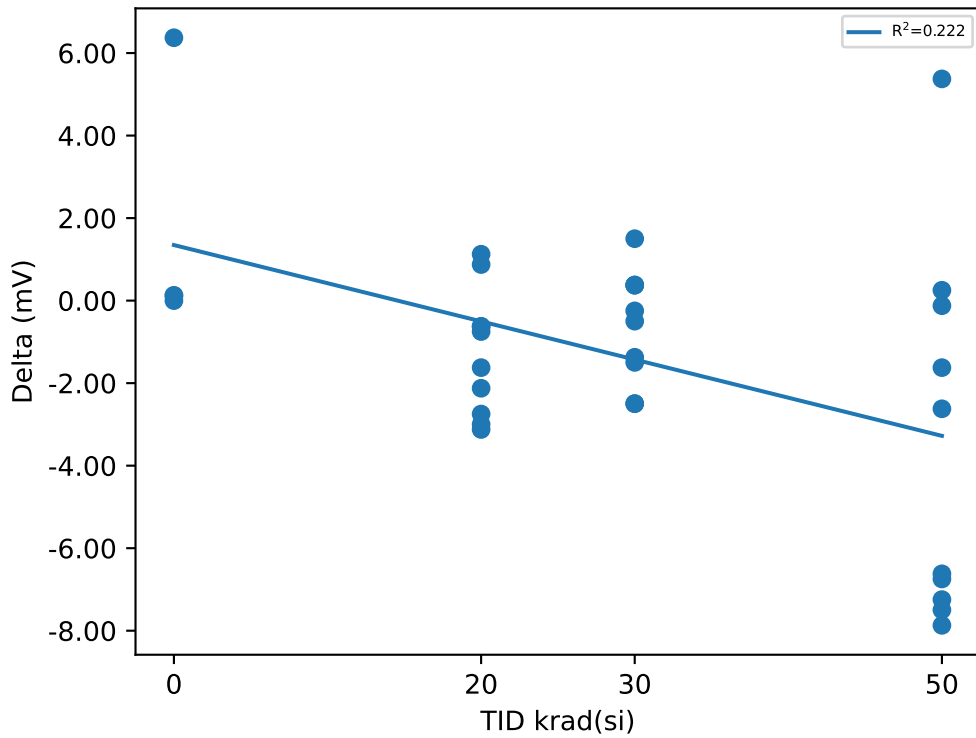
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 595.92 | 598.45 | 601.67 | 2.3842 | 598.04 | 600.1 | 602.29 | 2.2475 | 0 | 1.6553 | 6.3712 | 3.1445 |
| 20 | 594.3 | 599.47 | 603.79 | 2.7541 | 592.17 | 598.21 | 604.91 | 3.5073 | -3.1231 | -1.2617 | 1.1244 | 1.5237 |
| 30 | 596.92 | 599.28 | 601.29 | 1.3383 | 595.67 | 598.68 | 601.67 | 1.805 | -2.4967 | -0.5979 | 1.5008 | 1.3335 |
| 50 | 595.3 | 598.93 | 603.54 | 2.3188 | 588.67 | 595.46 | 602.92 | 4.5248 | -7.8702 | -3.4722 | 5.3735 | 4.4456 |

# Device Test: 19.35  VTH_DOWN(_LEVEL|FALL/DOWNb/7/14/0/0/0/@VTH_DOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 483.0, Upper Limit = 512.0 (mV))

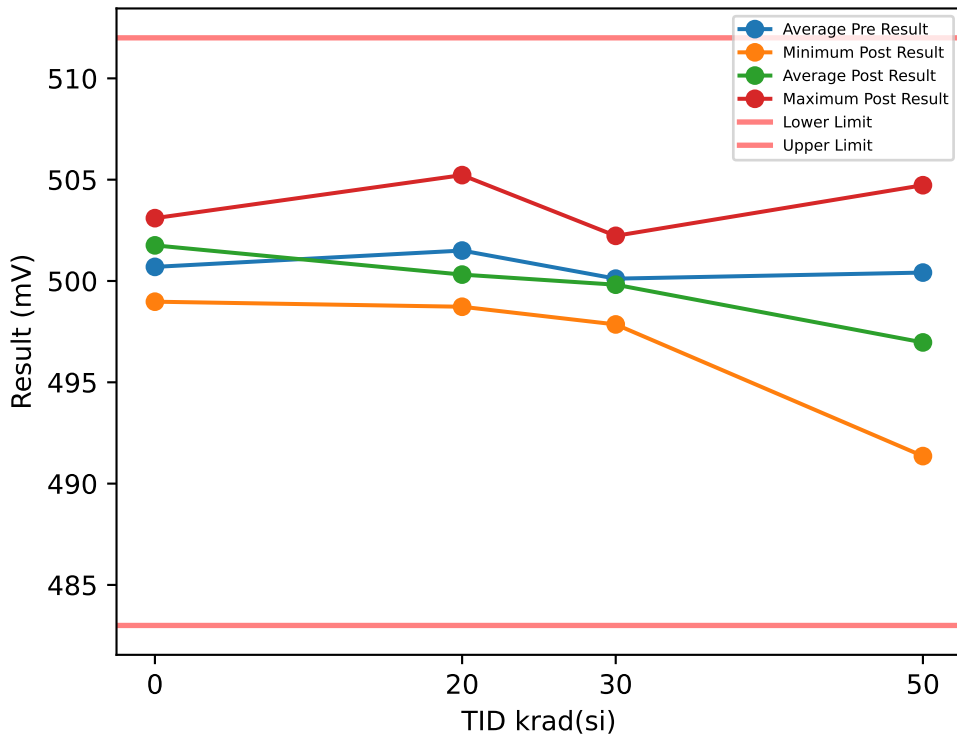| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 504.23 | 505.22 | 0.9994 |
| 2 | 20 | Bias | 500.48 | 498.98 | -1.4991 |
| 3 | 20 | Bias | 498.35 | 499.35 | 0.9993 |
| 4 | 20 | Bias | 502.85 | 502.35 | -0.4996 |
| 5 | 20 | Bias | 500.85 | 499.23 | -1.624 |
| 6 | 20 | Unbiased | 502.35 | 498.73 | -3.6229 |
| 7 | 20 | Unbiased | 503.23 | 500.98 | -2.2486 |
| 8 | 20 | Unbiased | 500.35 | 499.23 | -1.1243 |
| 9 | 20 | Unbiased | 499.73 | 498.73 | -0.9994 |
| 10 | 20 | Unbiased | 502.6 | 500.35 | -2.2487 |
| 11 | 30 | Bias | 501.6 | 502.23 | 0.6262 |
| 12 | 30 | Bias | 500.98 | 500.1 | -0.873 |
| 13 | 30 | Bias | 501.35 | 498.73 | -2.6219 |
| 14 | 30 | Bias | 499.98 | 499.73 | -0.2483 |
| 15 | 30 | Bias | 499.73 | 499.23 | -0.4982 |
| 16 | 30 | Unbiased | 497.73 | 499.73 | 2.0003 |
| 17 | 30 | Unbiased | 499.73 | 497.86 | -1.8723 |
| 18 | 30 | Unbiased | 500.1 | 500.35 | 0.2513 |
| 19 | 30 | Unbiased | 500.1 | 500.23 | 0.1265 |
| 20 | 30 | Unbiased | 499.85 | 499.98 | 0.1265 |
| 21 | 50 | Bias | 502.1 | 498.86 | -3.2466 |
| 22 | 50 | Bias | 501.23 | 500.85 | -0.3732 |
| 23 | 50 | Bias | 500.73 | 500.73 | 0.0015 |
| 24 | 50 | Bias | 497.98 | 504.73 | 6.7474 |
| 25 | 50 | Bias | 501.98 | 500.48 | -1.499 |
| 26 | 50 | Unbiased | 498.85 | 491.98 | -6.8709 |
| 27 | 50 | Unbiased | 498.23 | 491.48 | -6.7459 |
| 28 | 50 | Unbiased | 504.1 | 496.73 | -7.3705 |
| 29 | 50 | Unbiased | 500.23 | 492.48 | -7.7454 |
| 30 | 50 | Unbiased | 498.73 | 491.36 | -7.3705 |
| 31 | 0 | Correlation | 501.85 | 502.23 | 0.3747 |
| 32 | 0 | Correlation | 498.98 | 498.98 | 0 |
| 33 | 0 | Correlation | 502.98 | 503.1 | 0.125 |
| 34 | 0 | Correlation | 498.98 | 502.73 | 3.7477 |

## Test Statistics (mV)
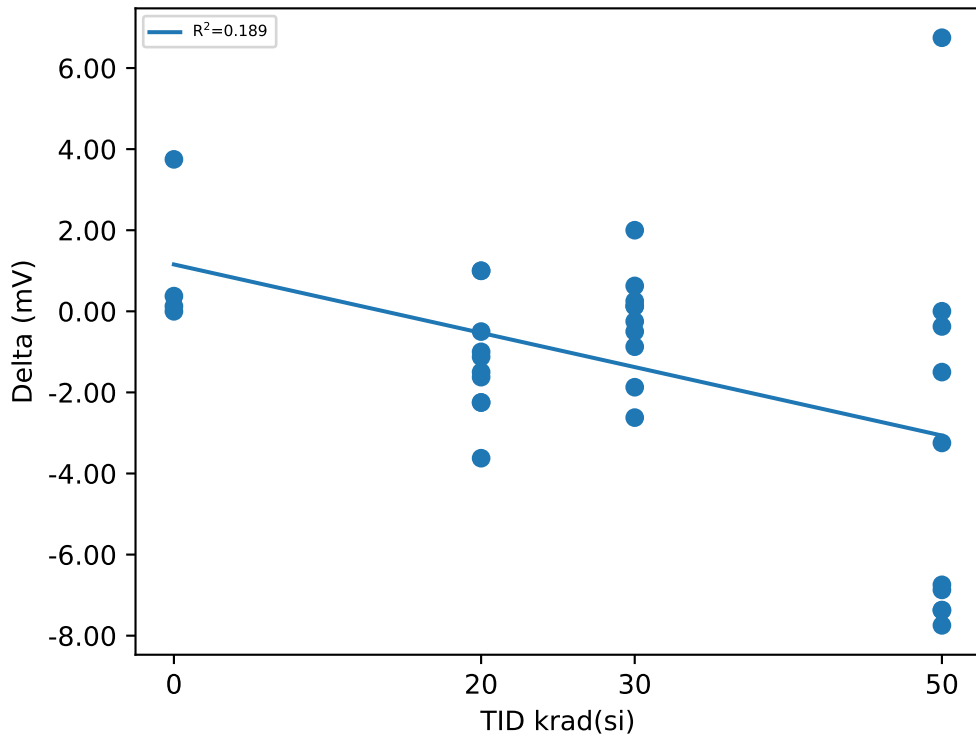
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 498.98 | 500.7 | 502.98 | 2.0358 | 498.98 | 501.76 | 503.1 | 1.8873 | 0 | 1.0619 | 3.7477 | 1.7973 |
| 20 | 498.35 | 501.5 | 504.23 | 1.8254 | 498.73 | 500.32 | 505.22 | 2.0763 | -3.6229 | -1.1868 | 0.9994 | 1.4356 |
| 30 | 497.73 | 500.12 | 501.6 | 1.0834 | 497.86 | 499.82 | 502.23 | 1.1435 | -2.6219 | -0.29829 | 2.0003 | 1.2932 |
| 50 | 497.98 | 500.42 | 504.1 | 1.9903 | 491.36 | 496.97 | 504.73 | 4.8523 | -7.7454 | -3.4473 | 6.7474 | 4.7255 |

# Device Test: 19.36  VTH_SENSE(_LEVEL|RISE/SENSE1/7/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

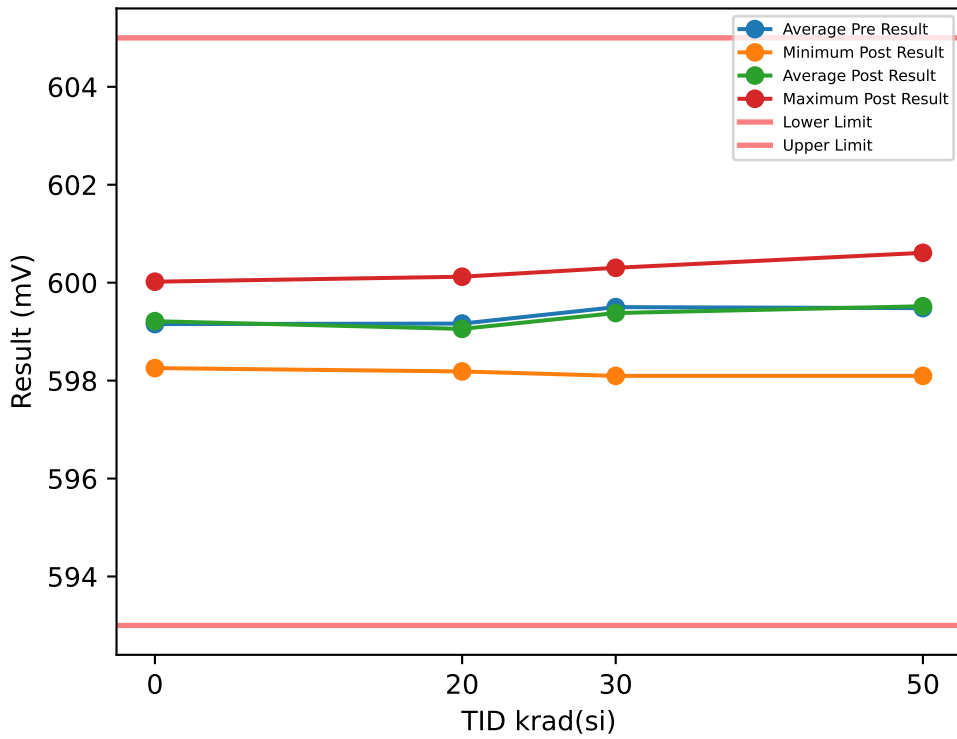| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 599.04 | 599.07 | 0.034 |
| 2 | 20 | Bias | 598.7 | 598.56 | -0.1358 |
| 3 | 20 | Bias | 599 | 599.27 | 0.2715 |
| 4 | 20 | Bias | 600.22 | 600.12 | -0.1018 |
| 5 | 20 | Bias | 598.66 | 598.19 | -0.4751 |
| 6 | 20 | Unbiased | 599.24 | 599.58 | 0.3393 |
| 7 | 20 | Unbiased | 598.73 | 598.9 | 0.1697 |
| 8 | 20 | Unbiased | 599.41 | 599.1 | -0.3055 |
| 9 | 20 | Unbiased | 599.17 | 598.73 | -0.4412 |
| 10 | 20 | Unbiased | 599.48 | 599.04 | -0.4412 |
| 11 | 30 | Bias | 598.93 | 598.67 | -0.26 |
| 12 | 30 | Bias | 599.31 | 598.1 | -1.2106 |
| 13 | 30 | Bias | 599.1 | 599.62 | 0.521 |
| 14 | 30 | Bias | 600.09 | 599.59 | -0.4971 |
| 15 | 30 | Bias | 599.82 | 600.3 | 0.4874 |
| 16 | 30 | Unbiased | 599.88 | 599.9 | 0.0121 |
| 17 | 30 | Unbiased | 599.27 | 599.79 | 0.5211 |
| 18 | 30 | Unbiased | 599.17 | 599.45 | 0.2833 |
| 19 | 30 | Unbiased | 599.38 | 599.25 | -0.124 |
| 20 | 30 | Unbiased | 600.05 | 599.12 | -0.9386 |
| 21 | 50 | Bias | 599.07 | 600.34 | 1.268 |
| 22 | 50 | Bias | 599.51 | 598.1 | -1.4143 |
| 23 | 50 | Bias | 600.39 | 600.58 | 0.1821 |
| 24 | 50 | Bias | 599.68 | 600.61 | 0.9288 |
| 25 | 50 | Bias | 600.46 | 600.46 | 0 |
| 26 | 50 | Unbiased | 598.7 | 598.73 | 0.0339 |
| 27 | 50 | Unbiased | 599.71 | 598.93 | -0.7806 |
| 28 | 50 | Unbiased | 599.1 | 599.17 | 0.0679 |
| 29 | 50 | Unbiased | 598.8 | 598.7 | -0.1018 |
| 30 | 50 | Unbiased | 599.38 | 599.58 | 0.2036 |
| 31 | 0 | Correlation | 599.07 | 599.48 | 0.4072 |
| 32 | 0 | Correlation | 599.82 | 600.02 | 0.2036 |
| 33 | 0 | Correlation | 599.24 | 599.1 | -0.1358 |
| 34 | 0 | Correlation | 598.49 | 598.26 | -0.2375 |

## Test Statistics (mV)
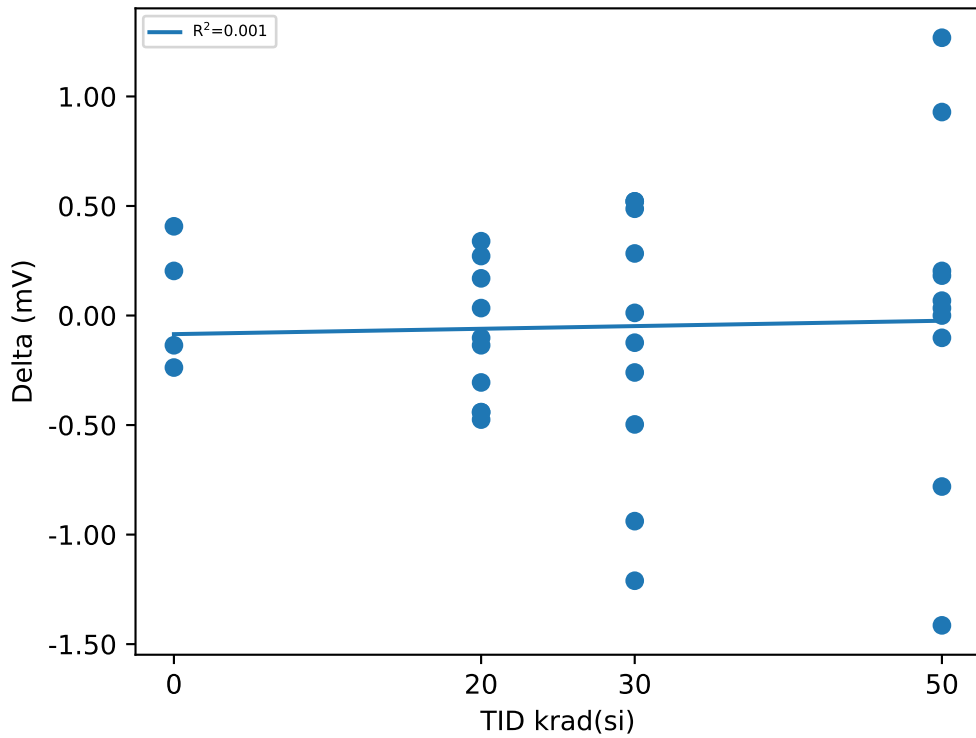
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.49 | 599.15 | 599.82 | 0.54478 | 598.26 | 599.21 | 600.02 | 0.74164 | -0.2375 | 0.059375 | 0.4072 | 0.29889 |
| 20 | 598.66 | 599.16 | 600.22 | 0.46994 | 598.19 | 599.06 | 600.12 | 0.53642 | -0.4751 | -0.10861 | 0.3393 | 0.30514 |
| 30 | 598.93 | 599.5 | 600.09 | 0.42027 | 598.1 | 599.38 | 600.3 | 0.63541 | -1.2106 | -0.12054 | 0.5211 | 0.61394 |
| 50 | 598.7 | 599.48 | 600.46 | 0.60487 | 598.1 | 599.52 | 600.61 | 0.92204 | -1.4143 | 0.03876 | 1.268 | 0.75688 |

# Device Test: 19.37  VTH_SENSE(_LEVEL|FALL/SENSE1/7/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

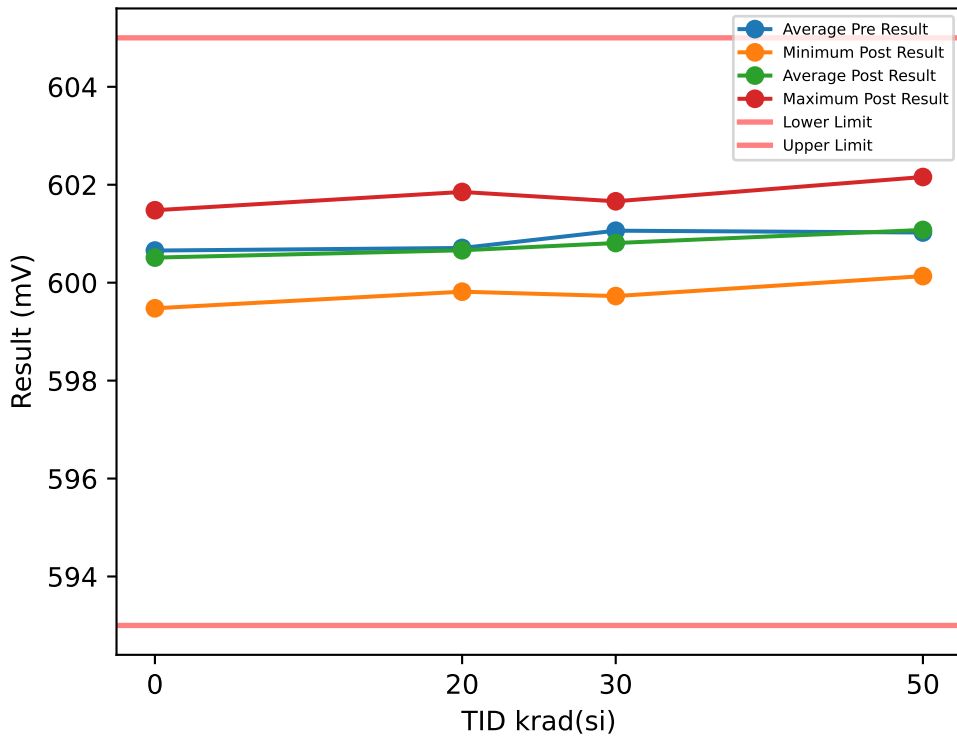| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.5 | 600.6 | 0.1018 |
| 2 | 20 | Bias | 600.09 | 600.16 | 0.0679 |
| 3 | 20 | Bias | 600.7 | 600.87 | 0.1697 |
| 4 | 20 | Bias | 601.62 | 601.85 | 0.2376 |
| 5 | 20 | Bias | 599.92 | 599.82 | -0.1018 |
| 6 | 20 | Unbiased | 600.94 | 600.87 | -0.0679 |
| 7 | 20 | Unbiased | 600.46 | 600.43 | -0.0339 |
| 8 | 20 | Unbiased | 601.04 | 600.6 | -0.4412 |
| 9 | 20 | Unbiased | 600.9 | 600.66 | -0.2375 |
| 10 | 20 | Unbiased | 600.94 | 600.77 | -0.1697 |
| 11 | 30 | Bias | 600.46 | 599.73 | -0.7346 |
| 12 | 30 | Bias | 600.87 | 600.03 | -0.8363 |
| 13 | 30 | Bias | 600.33 | 600.98 | 0.6574 |
| 14 | 30 | Bias | 601.78 | 600.88 | -0.9037 |
| 15 | 30 | Bias | 601.45 | 601.56 | 0.1148 |
| 16 | 30 | Unbiased | 601.51 | 601.66 | 0.1488 |
| 17 | 30 | Unbiased | 600.97 | 601.25 | 0.2843 |
| 18 | 30 | Unbiased | 600.73 | 600.88 | 0.1484 |
| 19 | 30 | Unbiased | 600.83 | 600.64 | -0.1912 |
| 20 | 30 | Unbiased | 601.68 | 600.47 | -1.2094 |
| 21 | 50 | Bias | 600.56 | 601.76 | 1.2009 |
| 22 | 50 | Bias | 601.14 | 600.13 | -1.0059 |
| 23 | 50 | Bias | 601.78 | 601.66 | -0.1227 |
| 24 | 50 | Bias | 601.28 | 602 | 0.7259 |
| 25 | 50 | Bias | 602.19 | 602.16 | -0.034 |
| 26 | 50 | Unbiased | 600.46 | 600.29 | -0.1697 |
| 27 | 50 | Unbiased | 600.66 | 600.53 | -0.1358 |
| 28 | 50 | Unbiased | 600.66 | 600.73 | 0.0678 |
| 29 | 50 | Unbiased | 600.46 | 600.26 | -0.2036 |
| 30 | 50 | Unbiased | 601.04 | 601.24 | 0.2036 |
| 31 | 0 | Correlation | 600.7 | 600.46 | -0.2376 |
| 32 | 0 | Correlation | 601.38 | 601.48 | 0.1018 |
| 33 | 0 | Correlation | 600.5 | 600.63 | 0.1357 |
| 34 | 0 | Correlation | 600.05 | 599.48 | -0.577 |

## Test Statistics (mV)
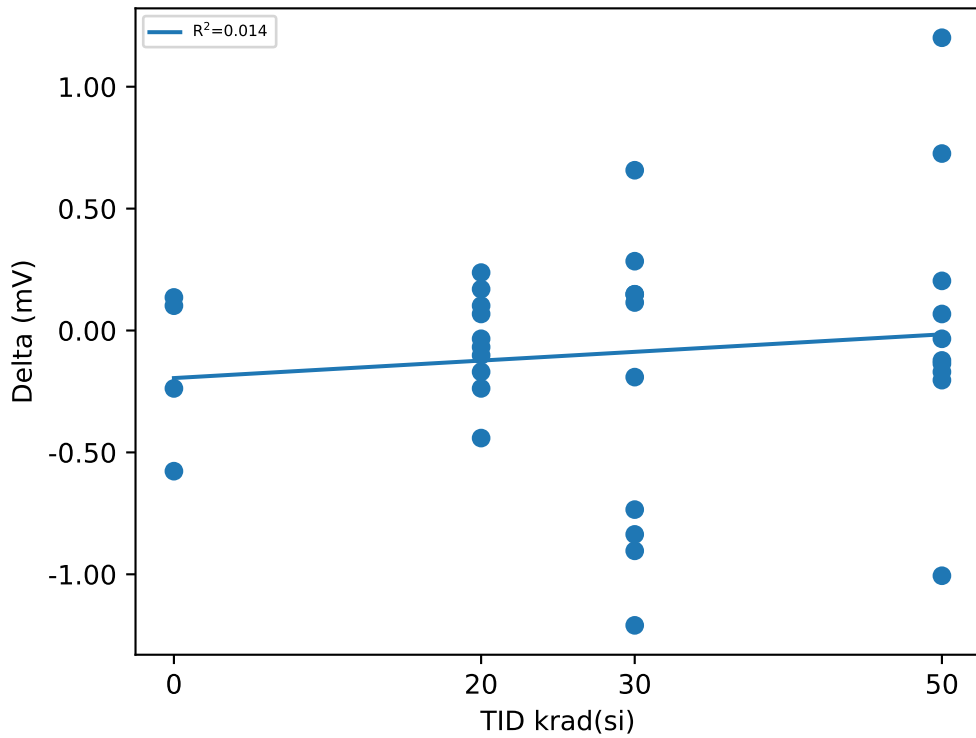
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 600.05 | 600.66 | 601.38 | 0.551 | 599.48 | 600.51 | 601.48 | 0.82134 | -0.577 | -0.14428 | 0.1357 | 0.33412 |
| 20 | 599.92 | 600.71 | 601.62 | 0.49313 | 599.82 | 600.66 | 601.85 | 0.53217 | -0.4412 | -0.0475 | 0.2376 | 0.20376 |
| 30 | 600.33 | 601.06 | 601.78 | 0.51296 | 599.73 | 600.81 | 601.66 | 0.6188 | -1.2094 | -0.25215 | 0.6574 | 0.62267 |
| 50 | 600.46 | 601.02 | 602.19 | 0.58918 | 600.13 | 601.08 | 602.16 | 0.77897 | -1.0059 | 0.05265 | 1.2009 | 0.58729 |

# Device Test: 19.38  VTH_SENSE(_LEVEL|RISE/SENSE2/7/14/0/0/0/@VTH_SENSE )

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

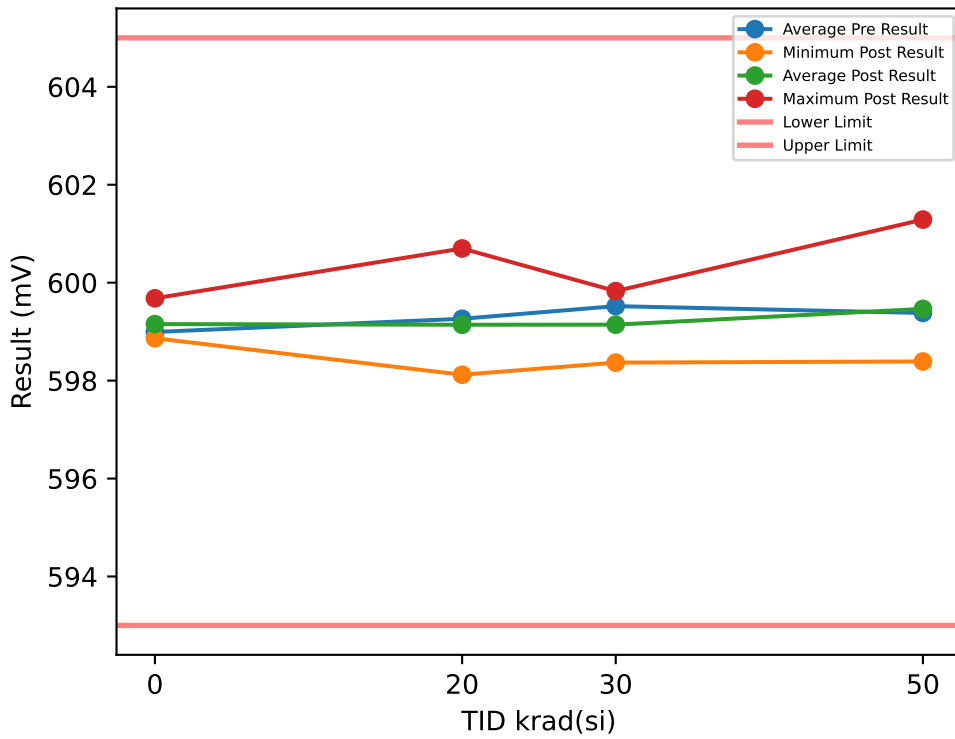| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 598.83 | 598.9 | 0.0679 |
| 2 | 20 | Bias | 598.66 | 598.46 | -0.2036 |
| 3 | 20 | Bias | 598.63 | 598.7 | 0.0679 |
| 4 | 20 | Bias | 600.73 | 600.7 | -0.0339 |
| 5 | 20 | Bias | 598.46 | 598.12 | -0.3394 |
| 6 | 20 | Unbiased | 599.68 | 599.95 | 0.2715 |
| 7 | 20 | Unbiased | 599.88 | 599.92 | 0.0339 |
| 8 | 20 | Unbiased | 599.34 | 598.76 | -0.577 |
| 9 | 20 | Unbiased | 599.1 | 598.7 | -0.4072 |
| 10 | 20 | Unbiased | 599.31 | 599.21 | -0.1018 |
| 11 | 30 | Bias | 599.48 | 599.25 | -0.2258 |
| 12 | 30 | Bias | 599.27 | 599.35 | 0.0797 |
| 13 | 30 | Bias | 598.56 | 598.98 | 0.4189 |
| 14 | 30 | Bias | 600.19 | 598.37 | -1.8213 |
| 15 | 30 | Bias | 599.61 | 599.66 | 0.0458 |
| 16 | 30 | Unbiased | 599.48 | 599.52 | 0.0459 |
| 17 | 30 | Unbiased | 599.54 | 598.91 | -0.6333 |
| 18 | 30 | Unbiased | 599.65 | 599.08 | -0.5653 |
| 19 | 30 | Unbiased | 598.66 | 599.83 | 1.166 |
| 20 | 30 | Unbiased | 600.77 | 598.47 | -2.2964 |
| 21 | 50 | Bias | 599.48 | 601.29 | 1.8115 |
| 22 | 50 | Bias | 599.71 | 599.12 | -0.5992 |
| 23 | 50 | Bias | 599.61 | 600.37 | 0.759 |
| 24 | 50 | Bias | 599.75 | 599.42 | -0.3275 |
| 25 | 50 | Bias | 600.12 | 600.19 | 0.0678 |
| 26 | 50 | Unbiased | 598.9 | 598.66 | -0.2376 |
| 27 | 50 | Unbiased | 599.41 | 599.1 | -0.3055 |
| 28 | 50 | Unbiased | 598.87 | 598.8 | -0.0678 |
| 29 | 50 | Unbiased | 598.46 | 598.39 | -0.0679 |
| 30 | 50 | Unbiased | 599.51 | 599.31 | -0.2037 |
| 31 | 0 | Correlation | 599.27 | 599.1 | -0.1697 |
| 32 | 0 | Correlation | 599.38 | 599.68 | 0.3055 |
| 33 | 0 | Correlation | 598.66 | 598.97 | 0.3055 |
| 34 | 0 | Correlation | 598.66 | 598.87 | 0.2036 |

### Test Statistics (mV)
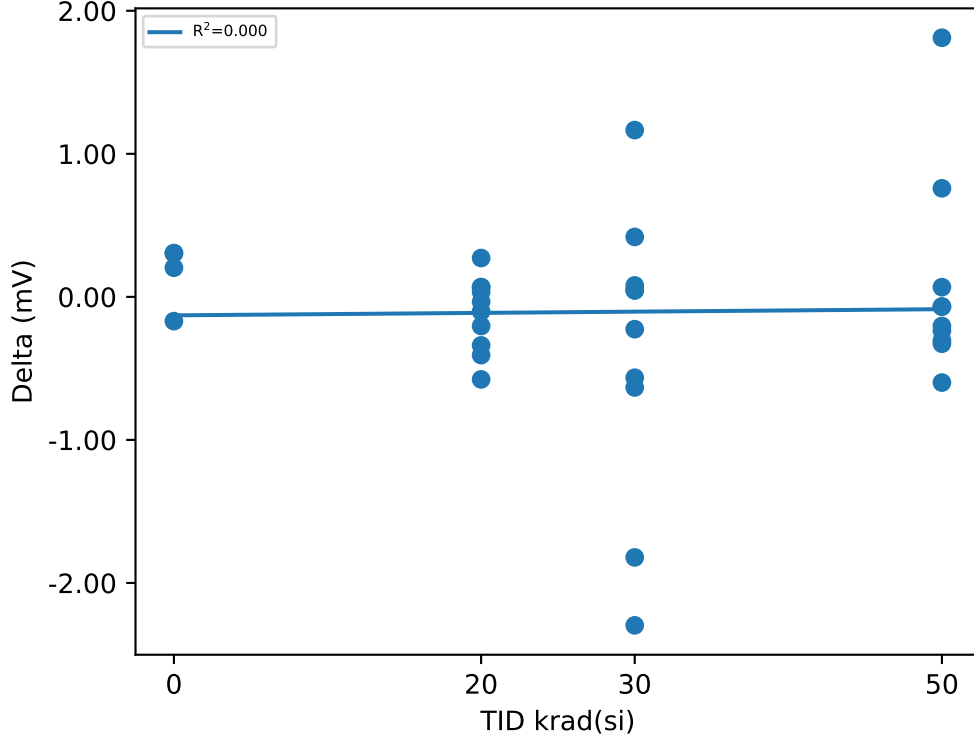
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.66 | 598.99 | 599.38 | 0.38434 | 598.87 | 599.15 | 599.68 | 0.36397 | -0.1697 | 0.16123 | 0.3055 | 0.22579 |
| 20 | 598.46 | 599.26 | 600.73 | 0.69516 | 598.12 | 599.14 | 600.7 | 0.80255 | -0.577 | -0.12217 | 0.2715 | 0.25857 |
| 30 | 598.56 | 599.52 | 600.77 | 0.64533 | 598.37 | 599.14 | 599.83 | 0.47987 | -2.2964 | -0.37858 | 1.166 | 1.026 |
| 50 | 598.46 | 599.38 | 600.12 | 0.49694 | 598.39 | 599.46 | 601.29 | 0.89406 | -0.5992 | 0.08291 | 1.8115 | 0.70398 |

# Device Test: 19.39  VTH_SENSE(_LEVEL|FALL/SENSE2/7/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

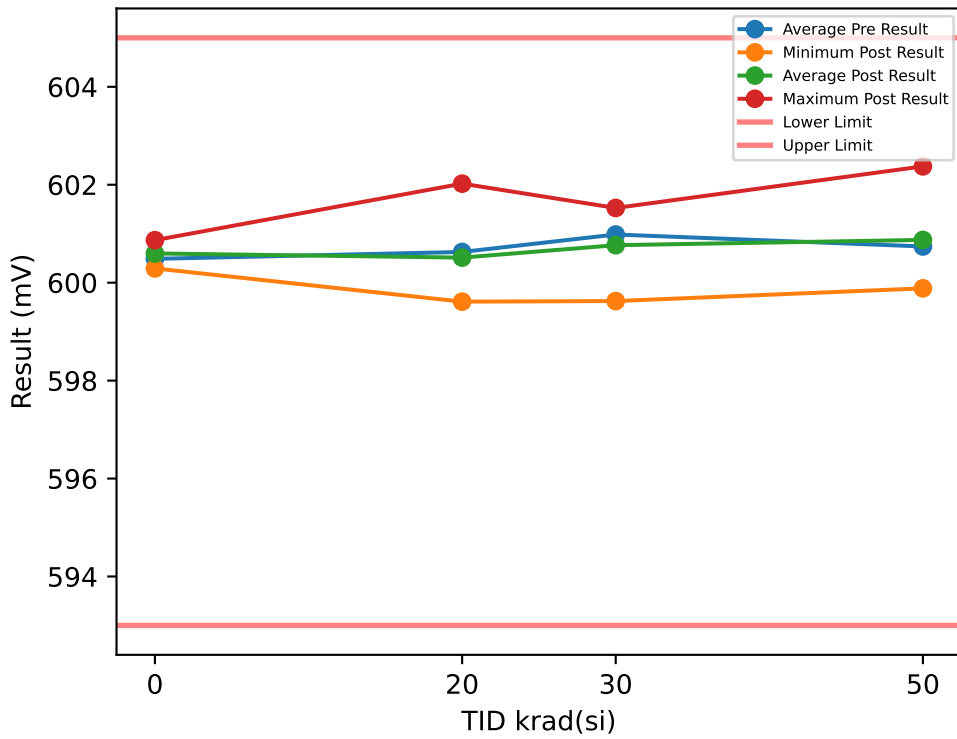| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.09 | 600.29 | 0.2036 |
| 2 | 20 | Bias | 600.05 | 599.88 | -0.1697 |
| 3 | 20 | Bias | 599.88 | 600.19 | 0.3054 |
| 4 | 20 | Bias | 602.19 | 602.02 | -0.1697 |
| 5 | 20 | Bias | 599.61 | 599.61 | 0 |
| 6 | 20 | Unbiased | 600.97 | 600.94 | -0.0339 |
| 7 | 20 | Unbiased | 601.31 | 601.21 | -0.1018 |
| 8 | 20 | Unbiased | 600.73 | 600.26 | -0.4751 |
| 9 | 20 | Unbiased | 600.77 | 600.33 | -0.4412 |
| 10 | 20 | Unbiased | 600.66 | 600.39 | -0.2715 |
| 11 | 30 | Bias | 601 | 600.61 | -0.3947 |
| 12 | 30 | Bias | 600.77 | 600.64 | -0.1233 |
| 13 | 30 | Bias | 600.05 | 600.88 | 0.8271 |
| 14 | 30 | Bias | 601.38 | 600.27 | -1.1077 |
| 15 | 30 | Bias | 601.31 | 601.42 | 0.1147 |
| 16 | 30 | Unbiased | 601.04 | 601.53 | 0.488 |
| 17 | 30 | Unbiased | 600.87 | 600.54 | -0.327 |
| 18 | 30 | Unbiased | 601.17 | 601.08 | -0.0891 |
| 19 | 30 | Unbiased | 600.05 | 601.05 | 0.9968 |
| 20 | 30 | Unbiased | 602.19 | 599.62 | -2.5674 |
| 21 | 50 | Bias | 601 | 602.38 | 1.3709 |
| 22 | 50 | Bias | 600.87 | 600.41 | -0.4628 |
| 23 | 50 | Bias | 601.14 | 601.63 | 0.4881 |
| 24 | 50 | Bias | 601.04 | 601.25 | 0.2164 |
| 25 | 50 | Bias | 601.48 | 601.55 | 0.0679 |
| 26 | 50 | Unbiased | 600.43 | 600.12 | -0.3054 |
| 27 | 50 | Unbiased | 600.7 | 600.39 | -0.3054 |
| 28 | 50 | Unbiased | 600.29 | 600.36 | 0.0679 |
| 29 | 50 | Unbiased | 599.88 | 599.88 | 0 |
| 30 | 50 | Unbiased | 600.56 | 600.77 | 0.2037 |
| 31 | 0 | Correlation | 600.56 | 600.6 | 0.034 |
| 32 | 0 | Correlation | 600.97 | 600.87 | -0.1018 |
| 33 | 0 | Correlation | 600.22 | 600.29 | 0.0678 |
| 34 | 0 | Correlation | 600.19 | 600.63 | 0.4412 |

## Test Statistics (mV)
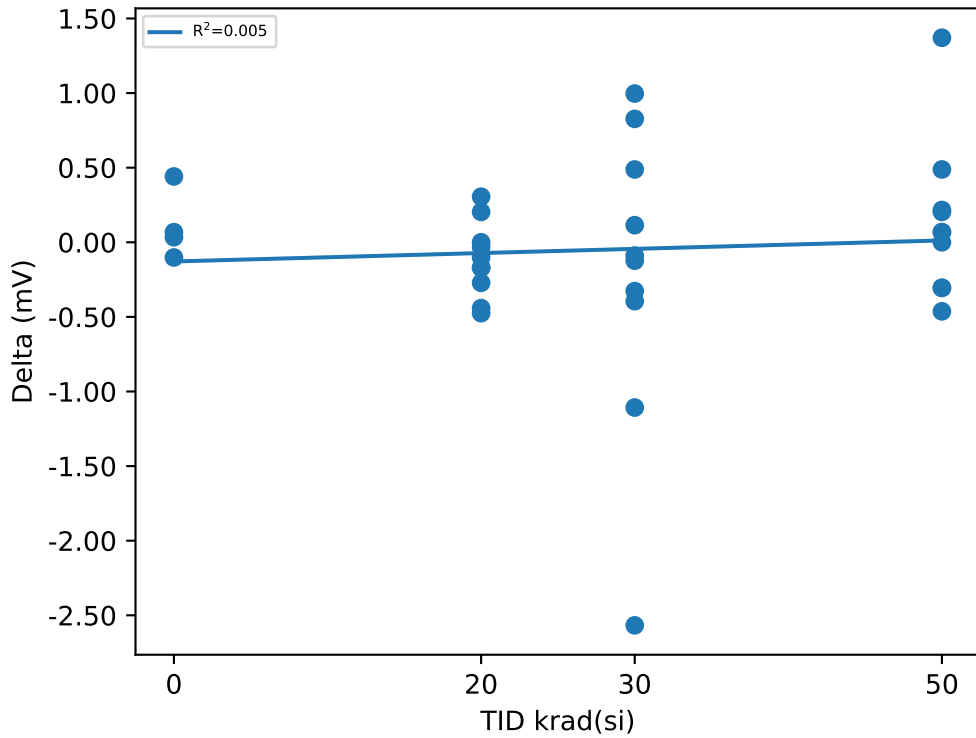
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 600.19 | 600.49 | 600.97 | 0.36381 | 600.29 | 600.6 | 600.87 | 0.23678 | -0.1018 | 0.1103 | 0.4412 | 0.23246 |
| 20 | 599.61 | 600.63 | 602.19 | 0.76484 | 599.61 | 600.51 | 602.02 | 0.70034 | -0.4751 | -0.11539 | 0.3054 | 0.2505 |
| 30 | 600.05 | 600.98 | 602.19 | 0.62807 | 599.62 | 600.77 | 601.53 | 0.56234 | -2.5674 | -0.21826 | 0.9968 | 1.0305 |
| 50 | 599.88 | 600.74 | 601.48 | 0.46501 | 599.88 | 600.87 | 602.38 | 0.79526 | -0.4628 | 0.13413 | 1.3709 | 0.52025 |

# Device Test: 19.4   VTH_SENSE(_LEVEL|FALL/SENSE1/1.6/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

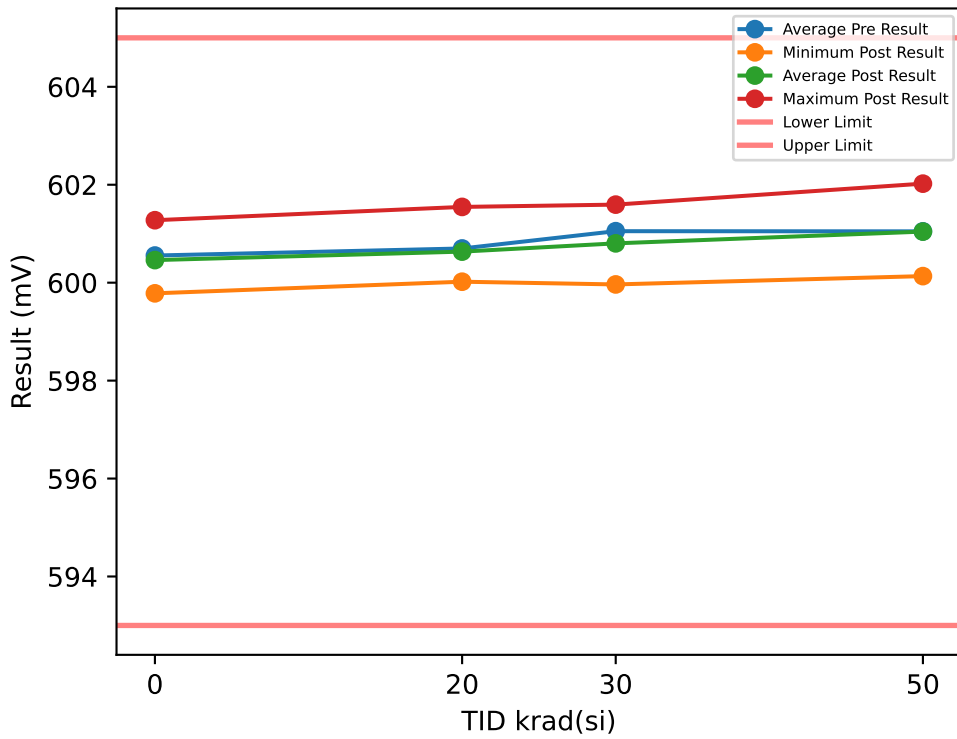| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.56 | 600.56 | 0 |
| 2 | 20 | Bias | 600.16 | 600.26 | 0.1018 |
| 3 | 20 | Bias | 600.63 | 600.83 | 0.2037 |
| 4 | 20 | Bias | 601.75 | 601.55 | -0.2036 |
| 5 | 20 | Bias | 600.02 | 600.02 | 0 |
| 6 | 20 | Unbiased | 600.83 | 601.04 | 0.2036 |
| 7 | 20 | Unbiased | 600.33 | 600.46 | 0.1357 |
| 8 | 20 | Unbiased | 600.8 | 600.56 | -0.2376 |
| 9 | 20 | Unbiased | 600.87 | 600.43 | -0.4412 |
| 10 | 20 | Unbiased | 601.04 | 600.63 | -0.4073 |
| 11 | 30 | Bias | 600.53 | 599.96 | -0.5648 |
| 12 | 30 | Bias | 600.9 | 600.07 | -0.8362 |
| 13 | 30 | Bias | 600.56 | 600.95 | 0.386 |
| 14 | 30 | Bias | 601.75 | 600.78 | -0.9717 |
| 15 | 30 | Bias | 601.28 | 601.59 | 0.3184 |
| 16 | 30 | Unbiased | 601.45 | 601.39 | -0.055 |
| 17 | 30 | Unbiased | 600.73 | 601.25 | 0.5219 |
| 18 | 30 | Unbiased | 600.73 | 600.91 | 0.1824 |
| 19 | 30 | Unbiased | 600.94 | 600.64 | -0.293 |
| 20 | 30 | Unbiased | 601.65 | 600.47 | -1.1755 |
| 21 | 50 | Bias | 600.56 | 601.83 | 1.2688 |
| 22 | 50 | Bias | 601.21 | 600.13 | -1.0738 |
| 23 | 50 | Bias | 601.92 | 601.66 | -0.2585 |
| 24 | 50 | Bias | 601.45 | 601.87 | 0.4204 |
| 25 | 50 | Bias | 602.02 | 602.02 | 0 |
| 26 | 50 | Unbiased | 600.39 | 600.33 | -0.0679 |
| 27 | 50 | Unbiased | 600.66 | 600.43 | -0.2376 |
| 28 | 50 | Unbiased | 600.77 | 600.73 | -0.034 |
| 29 | 50 | Unbiased | 600.56 | 600.26 | -0.3054 |
| 30 | 50 | Unbiased | 600.94 | 601.17 | 0.2375 |
| 31 | 0 | Correlation | 600.56 | 600.56 | 0 |
| 32 | 0 | Correlation | 601.41 | 601.28 | -0.1358 |
| 33 | 0 | Correlation | 600.29 | 600.22 | -0.0678 |
| 34 | 0 | Correlation | 599.95 | 599.78 | -0.1697 |

## Test Statistics (mV)
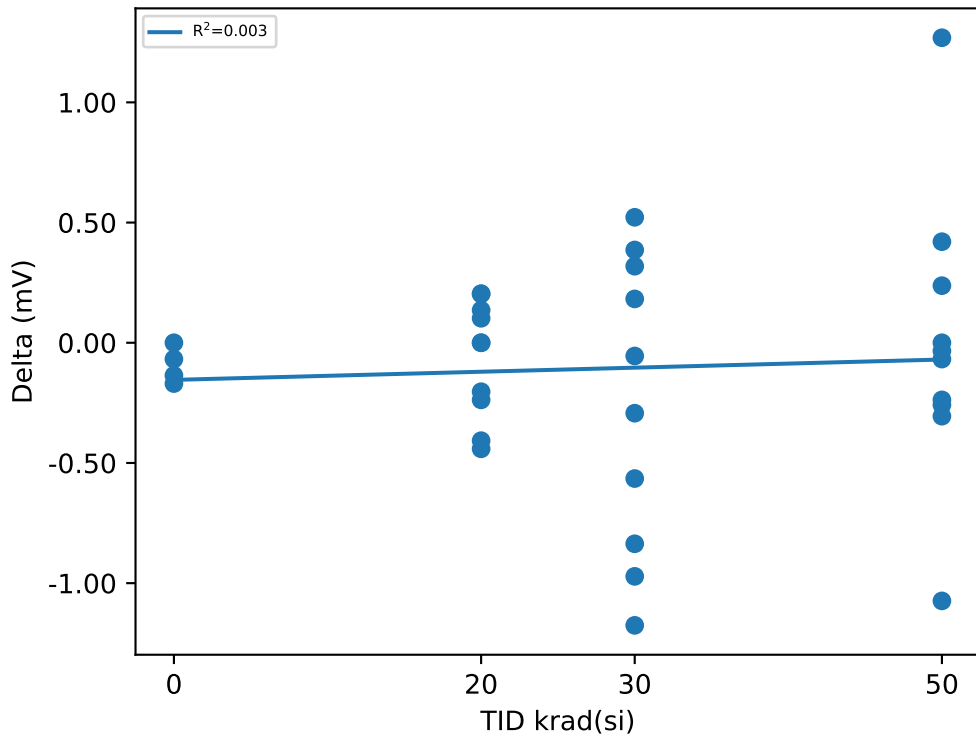
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 599.95 | 600.55 | 601.41 | 0.62355 | 599.78 | 600.46 | 601.28 | 0.63003 | -0.1697 | -0.093325 | 0 | 0.075274 |
| 20 | 600.02 | 600.7 | 601.75 | 0.49416 | 600.02 | 600.63 | 601.55 | 0.42676 | -0.4412 | -0.06449 | 0.2037 | 0.24235 |
| 30 | 600.53 | 601.05 | 601.75 | 0.44746 | 599.96 | 600.8 | 601.59 | 0.5364 | -1.1755 | -0.24875 | 0.5219 | 0.61195 |
| 50 | 600.39 | 601.05 | 602.02 | 0.58039 | 600.13 | 601.04 | 602.02 | 0.75218 | -1.0738 | -0.00505 | 1.2688 | 0.59797 |

# Device Test: 19.40  VTH_SENSE(_LEVEL|RISE/SENSE3/7/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

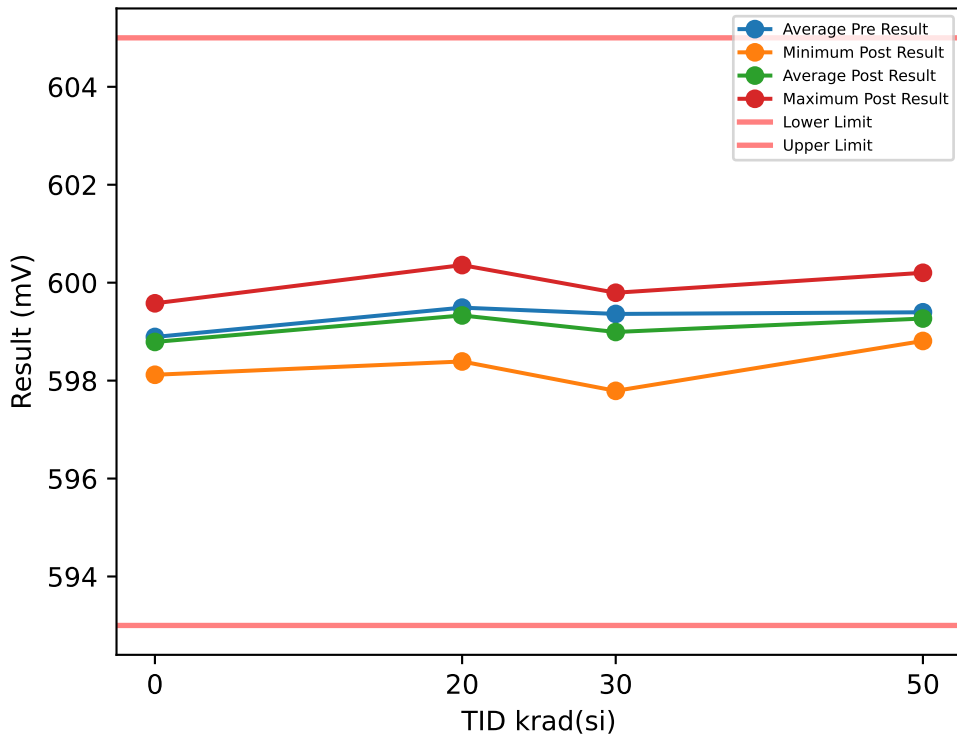| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 599.82 | 599.92 | 0.1018 |
| 2 | 20 | Bias | 599.14 | 598.73 | -0.4072 |
| 3 | 20 | Bias | 599.17 | 599.48 | 0.3054 |
| 4 | 20 | Bias | 600.39 | 600.36 | -0.034 |
| 5 | 20 | Bias | 598.73 | 598.39 | -0.3394 |
| 6 | 20 | Unbiased | 599 | 599.07 | 0.0679 |
| 7 | 20 | Unbiased | 599.27 | 599.38 | 0.1018 |
| 8 | 20 | Unbiased | 600.22 | 599.65 | -0.577 |
| 9 | 20 | Unbiased | 599.82 | 599.34 | -0.4751 |
| 10 | 20 | Unbiased | 599.34 | 599 | -0.3394 |
| 11 | 30 | Bias | 600.33 | 597.79 | -2.5344 |
| 12 | 30 | Bias | 599.41 | 599.79 | 0.3853 |
| 13 | 30 | Bias | 598.87 | 598.91 | 0.0455 |
| 14 | 30 | Bias | 599.41 | 598.71 | -0.7013 |
| 15 | 30 | Bias | 599.48 | 599.12 | -0.3616 |
| 16 | 30 | Unbiased | 599.85 | 599.12 | -0.7349 |
| 17 | 30 | Unbiased | 599.17 | 599.79 | 0.6229 |
| 18 | 30 | Unbiased | 598.97 | 599.32 | 0.3511 |
| 19 | 30 | Unbiased | 598.7 | 598.91 | 0.2151 |
| 20 | 30 | Unbiased | 599.44 | 598.47 | -0.9728 |
| 21 | 50 | Bias | 599.54 | 599.05 | -0.4974 |
| 22 | 50 | Bias | 599.41 | 598.81 | -0.5994 |
| 23 | 50 | Bias | 599.41 | 600.2 | 0.7927 |
| 24 | 50 | Bias | 599.75 | 599.29 | -0.4633 |
| 25 | 50 | Bias | 600.19 | 600.05 | -0.1357 |
| 26 | 50 | Unbiased | 599.1 | 598.9 | -0.2036 |
| 27 | 50 | Unbiased | 599.82 | 599.31 | -0.5091 |
| 28 | 50 | Unbiased | 599.07 | 599.21 | 0.1357 |
| 29 | 50 | Unbiased | 599.04 | 599 | -0.0339 |
| 30 | 50 | Unbiased | 598.63 | 598.87 | 0.2375 |
| 31 | 0 | Correlation | 598.73 | 598.73 | 0 |
| 32 | 0 | Correlation | 599.71 | 599.58 | -0.1358 |
| 33 | 0 | Correlation | 598.7 | 598.73 | 0.0339 |
| 34 | 0 | Correlation | 598.42 | 598.12 | -0.3055 |

## Test Statistics (mV)
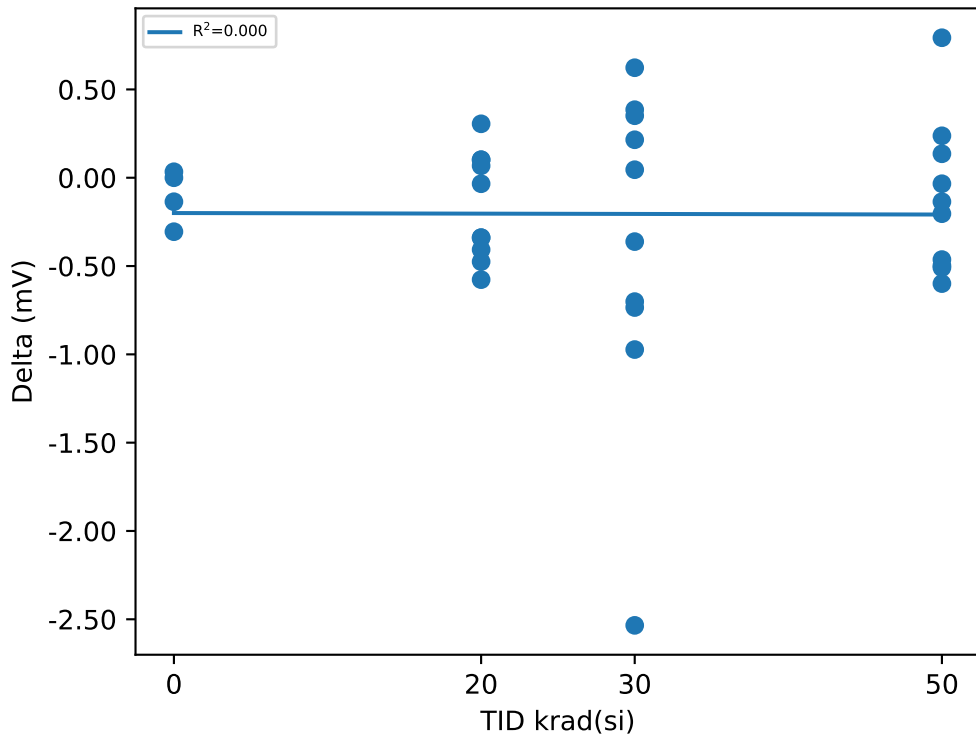
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 598.42 | 598.89 | 599.71 | 0.56542 | 598.12 | 598.79 | 599.58 | 0.59969 | -0.3055 | -0.10185 | 0.0339 | 0.1543 |
| 20 | 598.73 | 599.49 | 600.39 | 0.54542 | 598.39 | 599.33 | 600.36 | 0.57216 | -0.577 | -0.15952 | 0.3054 | 0.30187 |
| 30 | 598.7 | 599.36 | 600.33 | 0.47974 | 597.79 | 598.99 | 599.79 | 0.59939 | -2.5344 | -0.36851 | 0.6229 | 0.93584 |
| 50 | 598.63 | 599.4 | 600.19 | 0.45509 | 598.81 | 599.27 | 600.2 | 0.48557 | -0.5994 | -0.12765 | 0.7927 | 0.43228 |

## Device Test: 19.41  VTH_SENSE(_LEVEL|FALL/SENSE3/7/14/0/0/0/@VTH_SENSE )

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

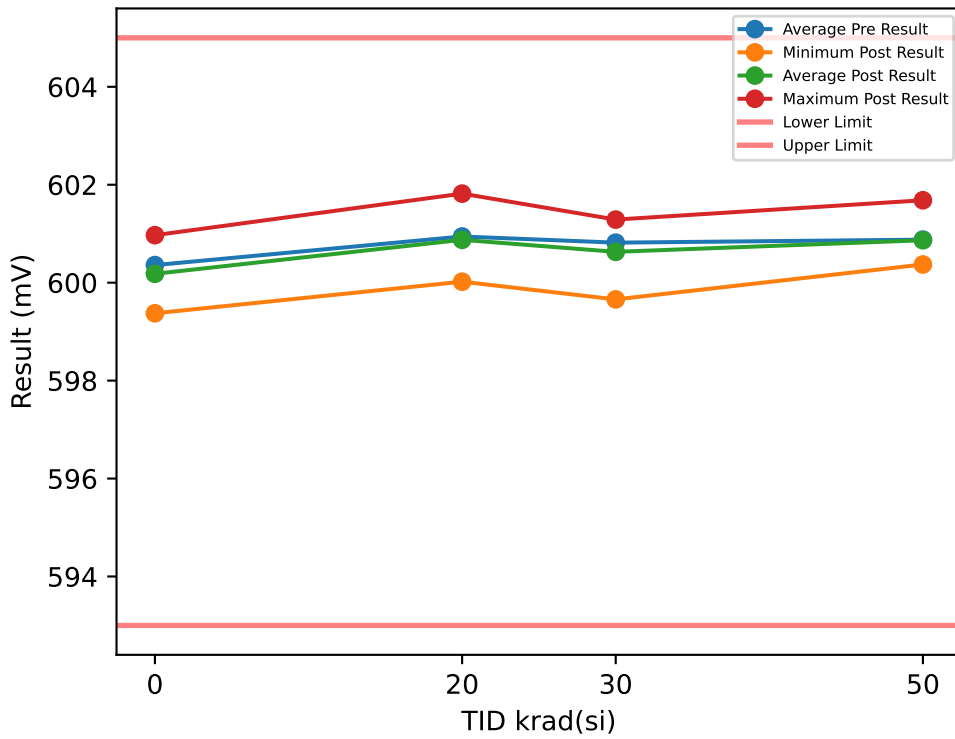| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 601.21 | 601.21 | 0 |
| 2 | 20 | Bias | 600.43 | 600.46 | 0.0339 |
| 3 | 20 | Bias | 600.77 | 600.9 | 0.1357 |
| 4 | 20 | Bias | 601.78 | 601.82 | 0.034 |
| 5 | 20 | Bias | 600.19 | 600.02 | -0.1697 |
| 6 | 20 | Unbiased | 600.6 | 600.7 | 0.1018 |
| 7 | 20 | Unbiased | 600.7 | 601.11 | 0.4073 |
| 8 | 20 | Unbiased | 601.51 | 601.07 | -0.4412 |
| 9 | 20 | Unbiased | 601.31 | 600.9 | -0.4073 |
| 10 | 20 | Unbiased | 600.94 | 600.56 | -0.3734 |
| 11 | 30 | Bias | 601.65 | 599.66 | -1.9905 |
| 12 | 30 | Bias | 600.7 | 601.29 | 0.5897 |
| 13 | 30 | Bias | 600.36 | 600.81 | 0.4538 |
| 14 | 30 | Bias | 600.9 | 600.71 | -0.1911 |
| 15 | 30 | Bias | 600.83 | 600.98 | 0.1483 |
| 16 | 30 | Unbiased | 601.38 | 601.12 | -0.2588 |
| 17 | 30 | Unbiased | 600.43 | 600.95 | 0.5217 |
| 18 | 30 | Unbiased | 600.56 | 600.47 | -0.0894 |
| 19 | 30 | Unbiased | 600.43 | 600.37 | -0.0555 |
| 20 | 30 | Unbiased | 600.94 | 599.93 | -1.0061 |
| 21 | 50 | Bias | 600.73 | 600.78 | 0.0465 |
| 22 | 50 | Bias | 600.8 | 600.37 | -0.4288 |
| 23 | 50 | Bias | 601 | 601.63 | 0.6239 |
| 24 | 50 | Bias | 601.28 | 601.12 | -0.1569 |
| 25 | 50 | Bias | 601.62 | 601.68 | 0.0679 |
| 26 | 50 | Unbiased | 600.63 | 600.46 | -0.1697 |
| 27 | 50 | Unbiased | 601.31 | 600.94 | -0.3733 |
| 28 | 50 | Unbiased | 600.66 | 600.77 | 0.1018 |
| 29 | 50 | Unbiased | 600.46 | 600.46 | 0 |
| 30 | 50 | Unbiased | 600.29 | 600.46 | 0.1697 |
| 31 | 0 | Correlation | 600.33 | 600.33 | 0 |
| 32 | 0 | Correlation | 601.21 | 600.97 | -0.2376 |
| 33 | 0 | Correlation | 600.02 | 600.05 | 0.034 |
| 34 | 0 | Correlation | 599.88 | 599.38 | -0.5091 |

### Test Statistics (mV)
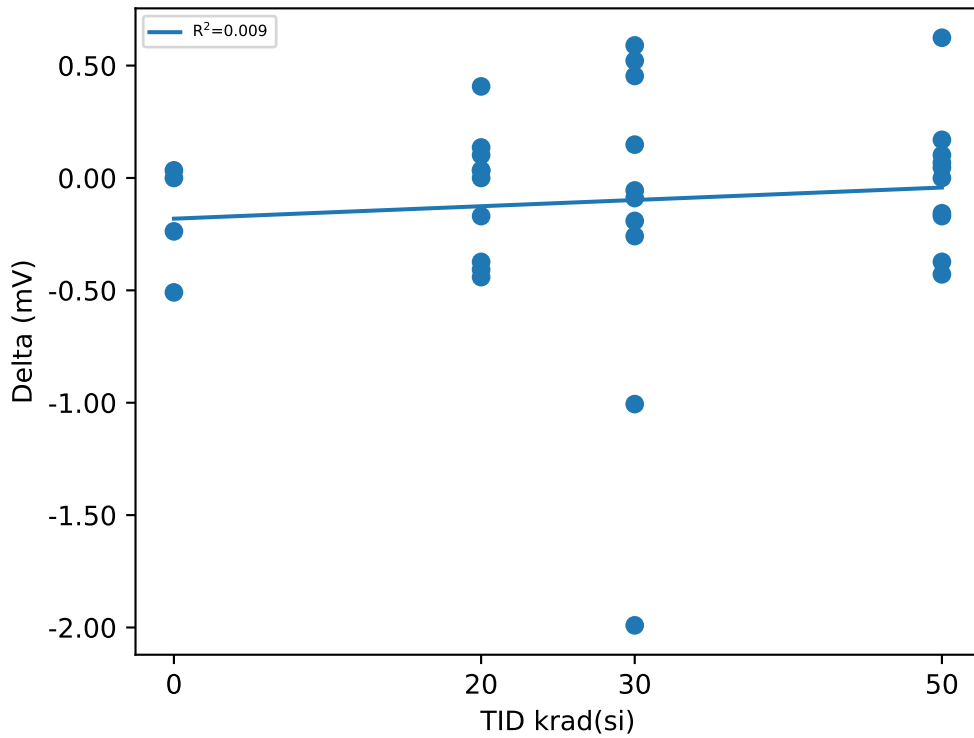
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 599.88 | 600.36 | 601.21 | 0.59498 | 599.38 | 600.18 | 600.97 | 0.66064 | -0.5091 | -0.17818 | 0.034 | 0.25153 |
| 20 | 600.19 | 600.94 | 601.78 | 0.50359 | 600.02 | 600.88 | 601.82 | 0.48603 | -0.4412 | -0.06789 | 0.4073 | 0.27481 |
| 30 | 600.36 | 600.82 | 601.65 | 0.42428 | 599.66 | 600.63 | 601.29 | 0.52317 | -1.9905 | -0.18779 | 0.5897 | 0.78769 |
| 50 | 600.29 | 600.88 | 601.62 | 0.41567 | 600.37 | 600.87 | 601.68 | 0.47962 | -0.4288 | -0.01189 | 0.6239 | 0.30008 |

# Device Test: 19.42  VTH_SENSE(_LEVEL|RISE/SENSE4/7/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

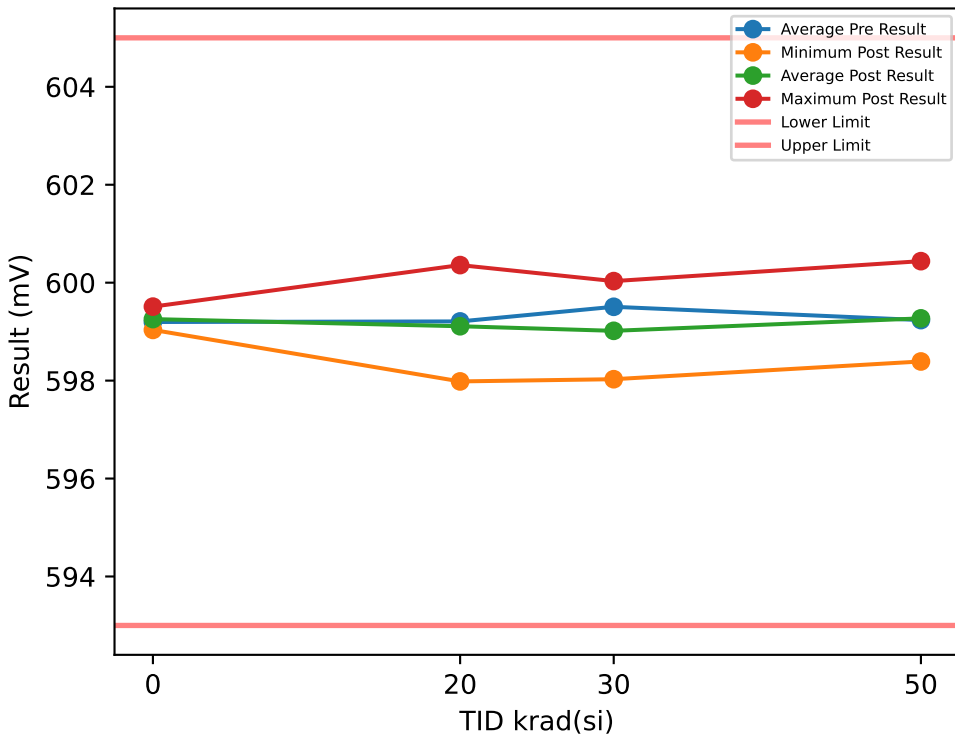| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 598.56 | 598.56 | 0 |
| 2 | 20 | Bias | 599.51 | 599.54 | 0.0339 |
| 3 | 20 | Bias | 598.63 | 598.73 | 0.1018 |
| 4 | 20 | Bias | 600.5 | 600.36 | -0.1358 |
| 5 | 20 | Bias | 598.12 | 597.98 | -0.1357 |
| 6 | 20 | Unbiased | 599.31 | 599.48 | 0.1697 |
| 7 | 20 | Unbiased | 600.05 | 600.02 | -0.034 |
| 8 | 20 | Unbiased | 599.34 | 598.93 | -0.4073 |
| 9 | 20 | Unbiased | 598.97 | 598.56 | -0.4073 |
| 10 | 20 | Unbiased | 599.1 | 598.93 | -0.1697 |
| 11 | 30 | Bias | 600.16 | 599.22 | -0.9385 |
| 12 | 30 | Bias | 599.17 | 599.25 | 0.0796 |
| 13 | 30 | Bias | 598.73 | 599.01 | 0.2831 |
| 14 | 30 | Bias | 599.71 | 598.47 | -1.2443 |
| 15 | 30 | Bias | 599.41 | 599.79 | 0.3853 |
| 16 | 30 | Unbiased | 600.19 | 599.05 | -1.1422 |
| 17 | 30 | Unbiased | 599.41 | 600.03 | 0.623 |
| 18 | 30 | Unbiased | 599.1 | 598.61 | -0.4977 |
| 19 | 30 | Unbiased | 598.66 | 598.71 | 0.0454 |
| 20 | 30 | Unbiased | 600.53 | 598.03 | -2.5003 |
| 21 | 50 | Bias | 598.97 | 600.44 | 1.4716 |
| 22 | 50 | Bias | 599.04 | 598.54 | -0.4977 |
| 23 | 50 | Bias | 599.38 | 599.86 | 0.4872 |
| 24 | 50 | Bias | 599.78 | 599.05 | -0.735 |
| 25 | 50 | Bias | 600.77 | 600.43 | -0.3394 |
| 26 | 50 | Unbiased | 599 | 598.8 | -0.2036 |
| 27 | 50 | Unbiased | 599.54 | 599.58 | 0.0339 |
| 28 | 50 | Unbiased | 598.56 | 598.7 | 0.1358 |
| 29 | 50 | Unbiased | 598.46 | 598.39 | -0.0679 |
| 30 | 50 | Unbiased | 598.87 | 598.93 | 0.0679 |
| 31 | 0 | Correlation | 599.31 | 599.14 | -0.1697 |
| 32 | 0 | Correlation | 599.41 | 599.51 | 0.1018 |
| 33 | 0 | Correlation | 599 | 599.04 | 0.0339 |
| 34 | 0 | Correlation | 599.07 | 599.34 | 0.2715 |

## Test Statistics (mV)
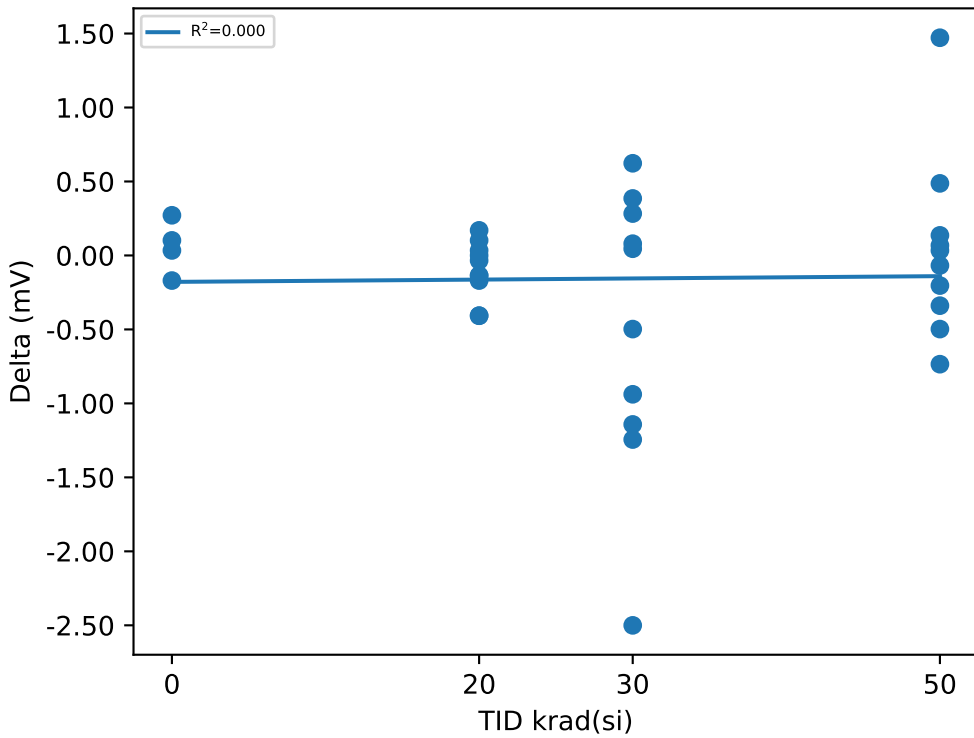
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 599 | 599.2 | 599.41 | 0.19273 | 599.04 | 599.26 | 599.51 | 0.21198 | -0.1697 | 0.059375 | 0.2715 | 0.1825 |
| 20 | 598.12 | 599.21 | 600.5 | 0.70711 | 597.98 | 599.11 | 600.36 | 0.72959 | -0.4073 | -0.09844 | 0.1697 | 0.19494 |
| 30 | 598.66 | 599.51 | 600.53 | 0.63117 | 598.03 | 599.02 | 600.03 | 0.60286 | -2.5003 | -0.49066 | 0.623 | 0.96899 |
| 50 | 598.46 | 599.24 | 600.77 | 0.67659 | 598.39 | 599.27 | 600.44 | 0.75834 | -0.735 | 0.03528 | 1.4716 | 0.61137 |

# Device Test: 19.43  VTH_SENSE(_LEVEL|FALL/SENSE4/7/14/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

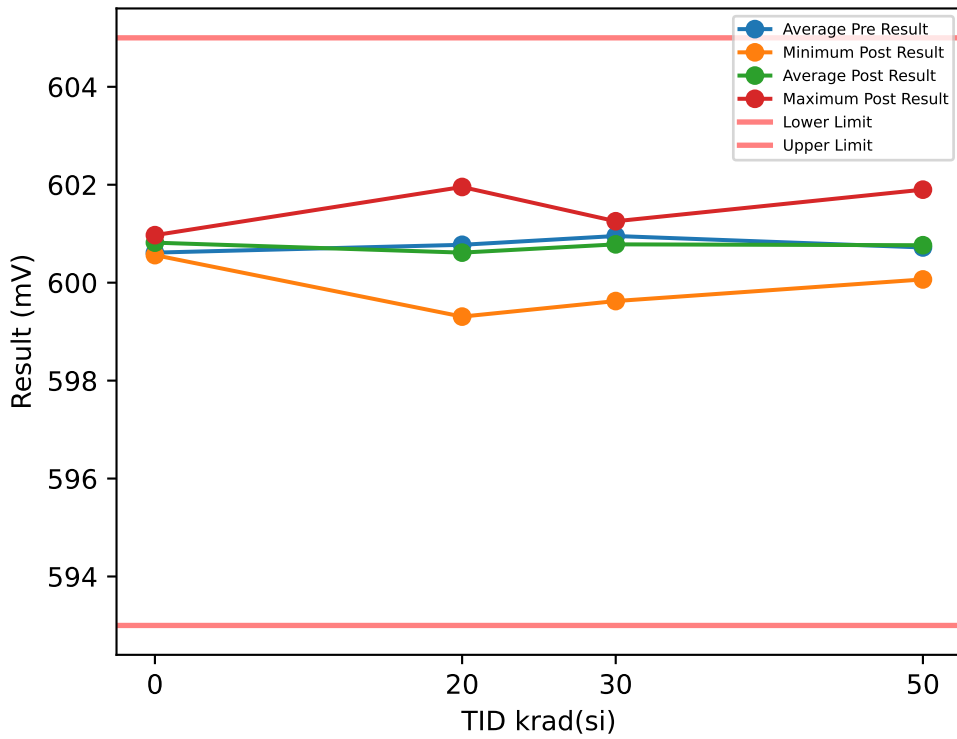| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 600.16 | 600.19 | 0.0339 |
| 2 | 20 | Bias | 601.07 | 600.94 | -0.1357 |
| 3 | 20 | Bias | 600.22 | 600.43 | 0.2036 |
| 4 | 20 | Bias | 602.23 | 601.95 | -0.2715 |
| 5 | 20 | Bias | 599.51 | 599.31 | -0.2037 |
| 6 | 20 | Unbiased | 600.77 | 600.94 | 0.1697 |
| 7 | 20 | Unbiased | 601.72 | 601.68 | -0.0339 |
| 8 | 20 | Unbiased | 600.77 | 600.29 | -0.4752 |
| 9 | 20 | Unbiased | 600.53 | 600.12 | -0.4072 |
| 10 | 20 | Unbiased | 600.77 | 600.29 | -0.4752 |
| 11 | 30 | Bias | 601.38 | 600.91 | -0.4625 |
| 12 | 30 | Bias | 600.7 | 601.15 | 0.454 |
| 13 | 30 | Bias | 600.09 | 600.81 | 0.7253 |
| 14 | 30 | Bias | 601.17 | 600.27 | -0.904 |
| 15 | 30 | Bias | 600.94 | 601.25 | 0.3182 |
| 16 | 30 | Unbiased | 601.72 | 601.19 | -0.5302 |
| 17 | 30 | Unbiased | 600.8 | 601.15 | 0.3522 |
| 18 | 30 | Unbiased | 600.66 | 600.81 | 0.1483 |
| 19 | 30 | Unbiased | 600.29 | 600.64 | 0.3519 |
| 20 | 30 | Unbiased | 601.78 | 599.62 | -2.1601 |
| 21 | 50 | Bias | 600.46 | 601.9 | 1.4386 |
| 22 | 50 | Bias | 600.5 | 600.07 | -0.429 |
| 23 | 50 | Bias | 600.8 | 601.05 | 0.2502 |
| 24 | 50 | Bias | 601.34 | 600.75 | -0.5984 |
| 25 | 50 | Bias | 602.06 | 601.89 | -0.1697 |
| 26 | 50 | Unbiased | 600.66 | 600.46 | -0.2037 |
| 27 | 50 | Unbiased | 600.97 | 600.7 | -0.2715 |
| 28 | 50 | Unbiased | 600.16 | 600.29 | 0.1357 |
| 29 | 50 | Unbiased | 600.05 | 600.12 | 0.0679 |
| 30 | 50 | Unbiased | 600.19 | 600.43 | 0.2376 |
| 31 | 0 | Correlation | 600.73 | 600.77 | 0.034 |
| 32 | 0 | Correlation | 601.07 | 600.97 | -0.1018 |
| 33 | 0 | Correlation | 600.56 | 600.56 | 0 |
| 34 | 0 | Correlation | 600.09 | 600.97 | 0.8824 |

## Test Statistics (mV)
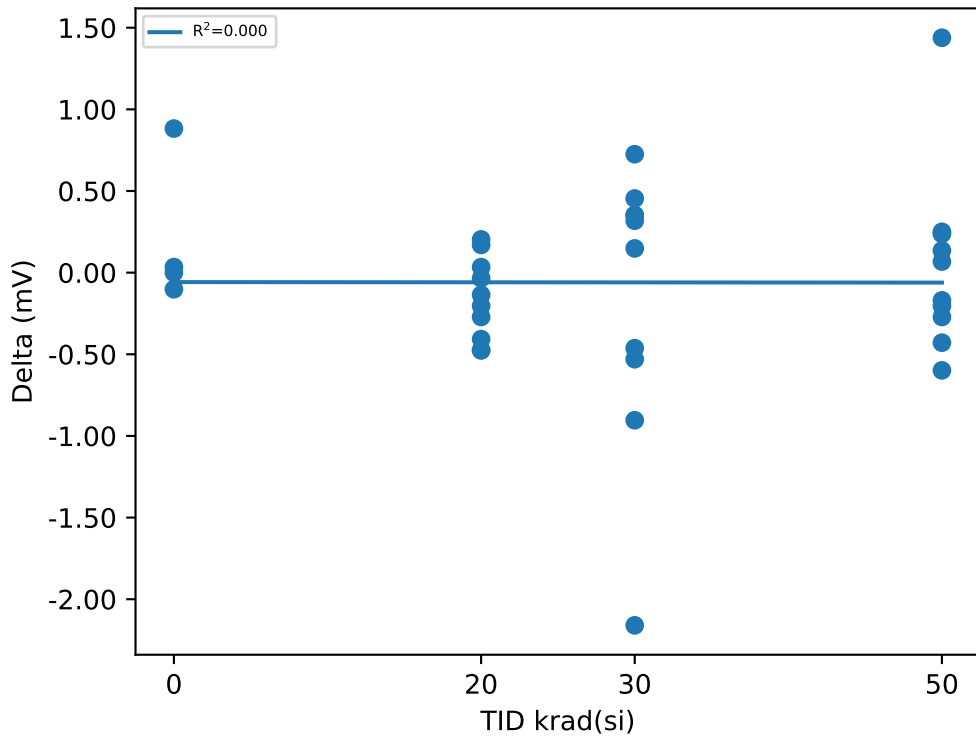
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 600.09 | 600.61 | 601.07 | 0.4096 | 600.56 | 600.82 | 600.97 | 0.19498 | -0.1018 | 0.20365 | 0.8824 | 0.45616 |
| 20 | 599.51 | 600.77 | 602.23 | 0.7765 | 599.31 | 600.61 | 601.95 | 0.78316 | -0.4752 | -0.15952 | 0.2036 | 0.25147 |
| 30 | 600.09 | 600.95 | 601.78 | 0.56388 | 599.62 | 600.78 | 601.25 | 0.50581 | -2.1601 | -0.17069 | 0.7253 | 0.8686 |
| 50 | 600.05 | 600.72 | 602.06 | 0.6153 | 600.07 | 600.76 | 601.9 | 0.66371 | -0.5984 | 0.04577 | 1.4386 | 0.56537 |
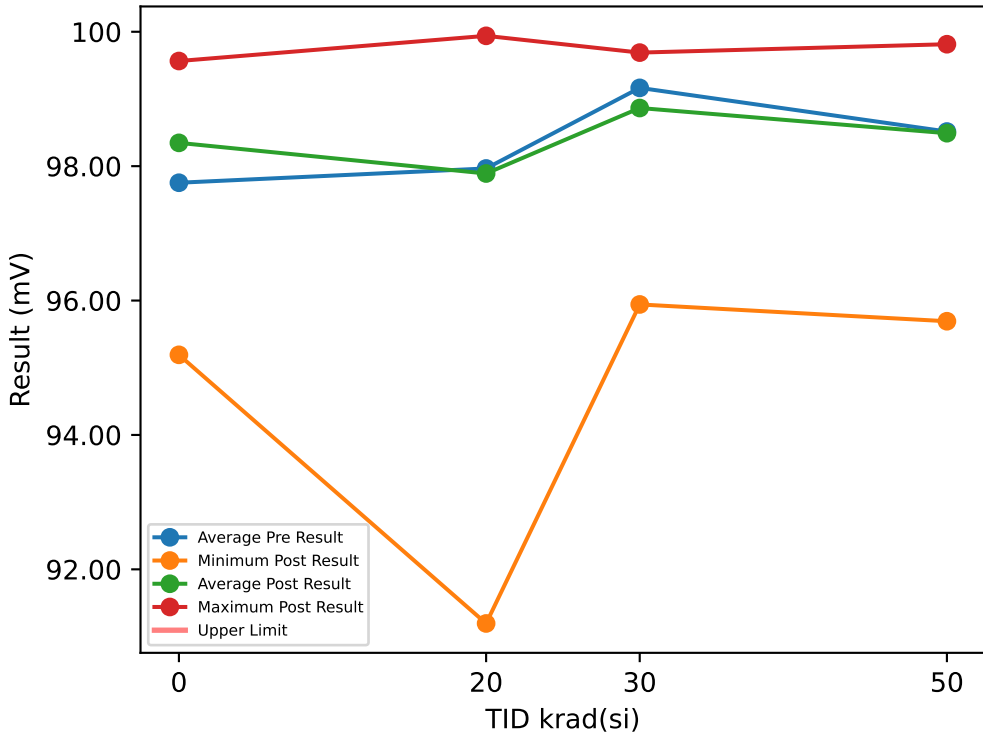
# Device Test: 19.44  UP_DOWN_VHYS(_LEVEL|HYS/UP/7/14/0/0/0/@UP_DOWN_VHYS )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (No Limits Specified (mV))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 99.565 | 99.69 | 0.1249 |
| 2 | 20 | Bias | 99.565 | 99.44 | -0.1249 |
| 3 | 20 | Bias | 99.69 | 99.565 | -0.1248 |
| 4 | 20 | Bias | 99.815 | 99.69 | -0.125 |
| 5 | 20 | Bias | 96.941 | 97.816 | 0.8745 |
| 6 | 20 | Unbiased | 99.44 | 99.939 | 0.4997 |
| 7 | 20 | Unbiased | 91.07 | 91.195 | 0.1249 |
| 8 | 20 | Unbiased | 97.816 | 96.192 | -1.624 |
| 9 | 20 | Unbiased | 99.315 | 99.69 | 0.3747 |
| 10 | 20 | Unbiased | 96.442 | 95.692 | -0.7495 |
| 11 | 30 | Bias | 99.69 | 99.44 | -0.2497 |
| 12 | 30 | Bias | 99.19 | 99.565 | 0.375 |
| 13 | 30 | Bias | 98.191 | 99.315 | 1.1246 |
| 14 | 30 | Bias | 99.815 | 97.566 | -2.2484 |
| 15 | 30 | Bias | 97.191 | 99.19 | 1.999 |
| 16 | 30 | Unbiased | 99.315 | 95.942 | -3.3727 |
| 17 | 30 | Unbiased | 99.44 | 98.815 | -0.6243 |
| 18 | 30 | Unbiased | 99.565 | 99.69 | 0.1252 |
| 19 | 30 | Unbiased | 99.44 | 99.69 | 0.2501 |
| 20 | 30 | Unbiased | 99.815 | 99.44 | -0.3746 |
| 21 | 50 | Bias | 96.442 | 99.565 | 3.1233 |
| 22 | 50 | Bias | 96.067 | 96.692 | 0.6249 |
| 23 | 50 | Bias | 98.316 | 95.692 | -2.6233 |
| 24 | 50 | Bias | 99.565 | 98.191 | -1.3739 |
| 25 | 50 | Bias | 99.69 | 99.565 | -0.1249 |
| 26 | 50 | Unbiased | 100.19 | 99.815 | -0.3748 |
| 27 | 50 | Unbiased | 99.565 | 99.565 | 0 |
| 28 | 50 | Unbiased | 99.44 | 99.315 | -0.1249 |
| 29 | 50 | Unbiased | 99.315 | 99.19 | -0.1248 |
| 30 | 50 | Unbiased | 96.567 | 97.316 | 0.7496 |
| 31 | 0 | Correlation | 99.814 | 99.565 | -0.2498 |
| 32 | 0 | Correlation | 98.94 | 99.065 | 0.1249 |
| 33 | 0 | Correlation | 95.317 | 95.192 | -0.125 |
| 34 | 0 | Correlation | 96.941 | 99.565 | 2.6234 |

## Test Statistics (mV)
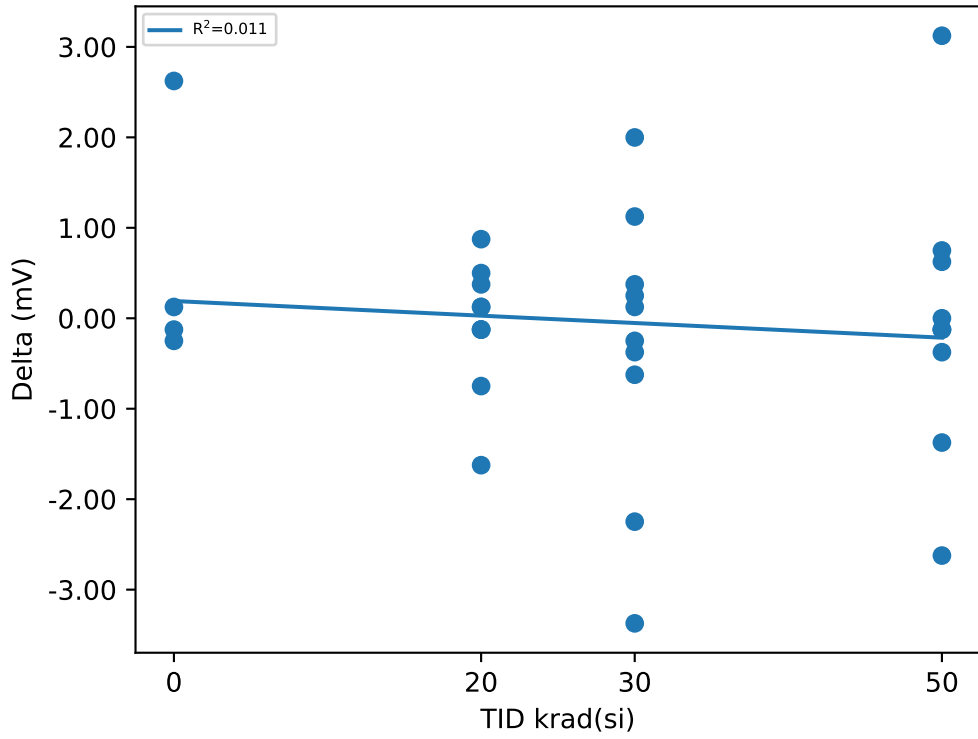
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 95.317 | 97.753 | 99.814 | 2.0208 | 95.192 | 98.347 | 99.565 | 2.1161 | -0.2498 | 0.59338 | 2.6234 | 1.3623 |
| 20 | 91.07 | 97.966 | 99.815 | 2.7171 | 91.195 | 97.891 | 99.939 | 2.8219 | -1.624 | -0.07495 | 0.8745 | 0.69728 |
| 30 | 97.191 | 99.165 | 99.815 | 0.83656 | 95.942 | 98.865 | 99.69 | 1.2043 | -3.3727 | -0.29958 | 1.999 | 1.5494 |
| 50 | 96.067 | 98.515 | 100.19 | 1.5639 | 95.692 | 98.49 | 99.815 | 1.4499 | -2.6233 | -0.02488 | 3.1233 | 1.4779 |

# Device Test: 19.5 VTH_SENSE(_LEVEL|RISE/SENSE2/1.6/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

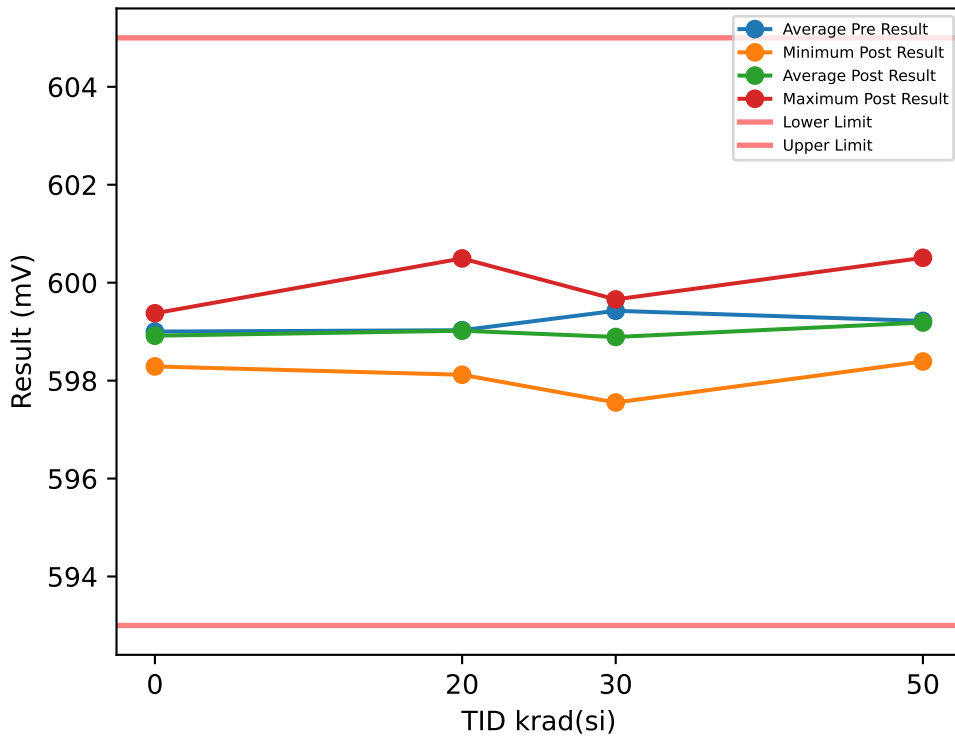| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 598.63 | 598.63 | 0 |
| 2 | 20 | Bias | 598.46 | 598.32 | -0.1358 |
| 3 | 20 | Bias | 597.92 | 598.63 | 0.7127 |
| 4 | 20 | Bias | 600.7 | 600.5 | -0.2036 |
| 5 | 20 | Bias | 598.36 | 598.12 | -0.2376 |
| 6 | 20 | Unbiased | 599.24 | 599.65 | 0.4072 |
| 7 | 20 | Unbiased | 600.05 | 600.02 | -0.034 |
| 8 | 20 | Unbiased | 599 | 598.87 | -0.1358 |
| 9 | 20 | Unbiased | 599.07 | 598.7 | -0.3733 |
| 10 | 20 | Unbiased | 598.87 | 598.76 | -0.1018 |
| 11 | 30 | Bias | 599.31 | 598.78 | -0.5315 |
| 12 | 30 | Bias | 599.27 | 599.15 | -0.1241 |
| 13 | 30 | Bias | 598.46 | 598.91 | 0.4527 |
| 14 | 30 | Bias | 599.88 | 598.13 | -1.7536 |
| 15 | 30 | Bias | 599.75 | 599.66 | -0.0899 |
| 16 | 30 | Unbiased | 599.34 | 599.52 | 0.1816 |
| 17 | 30 | Unbiased | 599.48 | 598.91 | -0.5654 |
| 18 | 30 | Unbiased | 599.54 | 599.15 | -0.3956 |
| 19 | 30 | Unbiased | 598.56 | 599.15 | 0.5886 |
| 20 | 30 | Unbiased | 600.66 | 597.55 | -3.1115 |
| 21 | 50 | Bias | 599.1 | 600.51 | 1.4039 |
| 22 | 50 | Bias | 599.54 | 598.61 | -0.9389 |
| 23 | 50 | Bias | 599.71 | 599.79 | 0.0799 |
| 24 | 50 | Bias | 599.61 | 599.45 | -0.1579 |
| 25 | 50 | Bias | 599.85 | 600.05 | 0.2037 |
| 26 | 50 | Unbiased | 598.87 | 598.83 | -0.0339 |
| 27 | 50 | Unbiased | 599.27 | 598.8 | -0.4751 |
| 28 | 50 | Unbiased | 598.87 | 598.63 | -0.2375 |
| 29 | 50 | Unbiased | 598.39 | 598.39 | 0 |
| 30 | 50 | Unbiased | 598.97 | 598.8 | -0.1697 |
| 31 | 0 | Correlation | 599.34 | 599 | -0.3394 |
| 32 | 0 | Correlation | 599.34 | 599.38 | 0.0339 |
| 33 | 0 | Correlation | 598.87 | 598.29 | -0.5769 |
| 34 | 0 | Correlation | 598.46 | 599 | 0.543 |

## Test Statistics (mV)
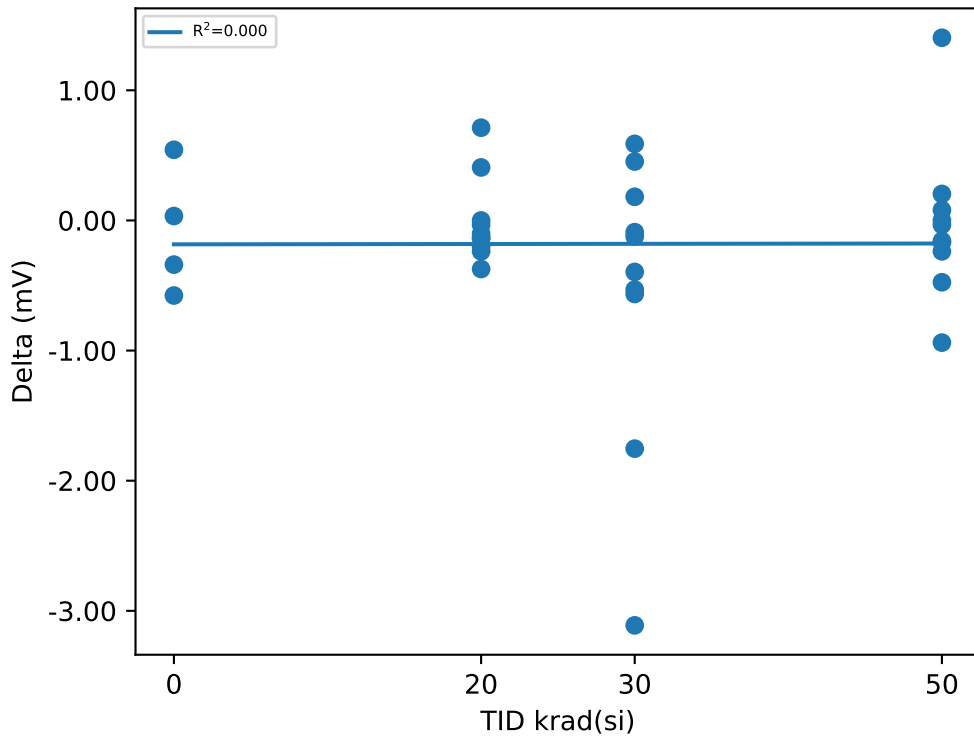
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.46 | 599 | 599.34 | 0.42571 | 598.29 | 598.92 | 599.38 | 0.45405 | -0.5769 | -0.08485 | 0.543 | 0.48826 |
| 20 | 597.92 | 599.03 | 600.7 | 0.82245 | 598.12 | 599.02 | 600.5 | 0.77213 | -0.3733 | -0.0102 | 0.7127 | 0.32632 |
| 30 | 598.46 | 599.43 | 600.66 | 0.63195 | 597.55 | 598.89 | 599.66 | 0.62982 | -3.1115 | -0.53487 | 0.5886 | 1.1186 |
| 50 | 598.39 | 599.22 | 599.85 | 0.4618 | 598.39 | 599.19 | 600.51 | 0.71861 | -0.9389 | -0.03255 | 1.4039 | 0.59877 |

# Device Test: 19.6 VTH_SENSE(_LEVEL|FALL/SENSE2/1.6/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

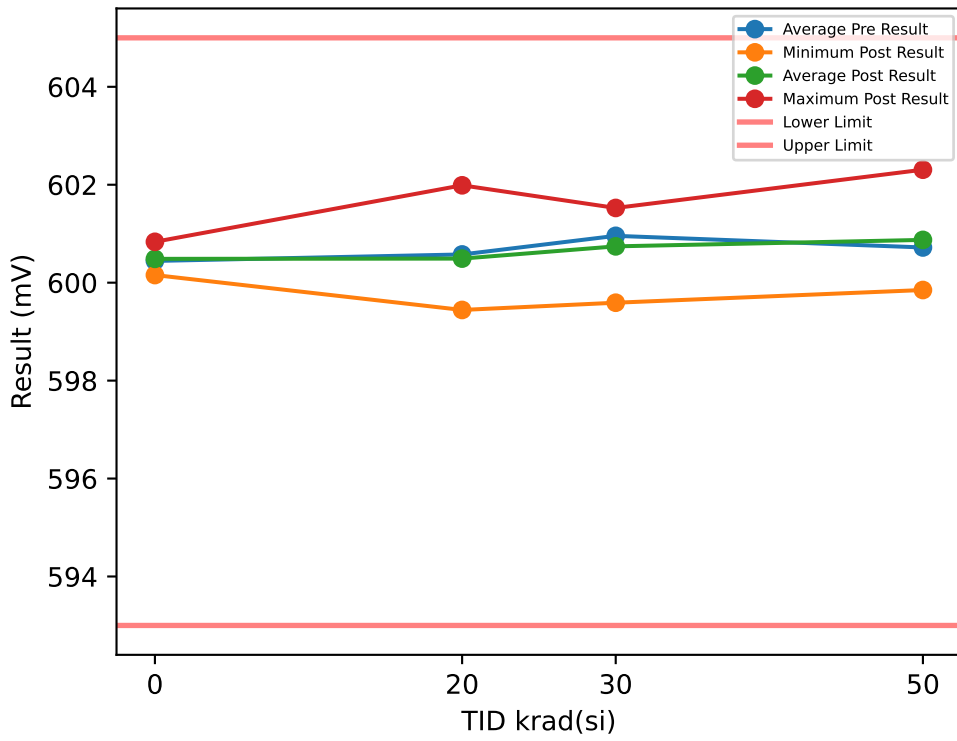| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 600.33 | 600.19 | -0.1358 |
| 2 | 20 | Bias | 599.85 | 599.99 | 0.1358 |
| 3 | 20 | Bias | 599.82 | 600.09 | 0.2715 |
| 4 | 20 | Bias | 601.95 | 601.99 | 0.034 |
| 5 | 20 | Bias | 599.85 | 599.44 | -0.4072 |
| 6 | 20 | Unbiased | 600.73 | 600.97 | 0.2376 |
| 7 | 20 | Unbiased | 601 | 601.34 | 0.3394 |
| 8 | 20 | Unbiased | 600.66 | 600.26 | -0.4073 |
| 9 | 20 | Unbiased | 600.7 | 600.22 | -0.4751 |
| 10 | 20 | Unbiased | 600.87 | 600.43 | -0.4412 |
| 11 | 30 | Bias | 600.87 | 600.54 | -0.327 |
| 12 | 30 | Bias | 600.73 | 600.75 | 0.0125 |
| 13 | 30 | Bias | 599.78 | 600.71 | 0.9288 |
| 14 | 30 | Bias | 601.41 | 600.17 | -1.2435 |
| 15 | 30 | Bias | 601.34 | 601.53 | 0.1826 |
| 16 | 30 | Unbiased | 601.04 | 601.32 | 0.2843 |
| 17 | 30 | Unbiased | 600.9 | 600.88 | -0.0213 |
| 18 | 30 | Unbiased | 601.21 | 600.98 | -0.225 |
| 19 | 30 | Unbiased | 599.99 | 600.95 | 0.9629 |
| 20 | 30 | Unbiased | 602.29 | 599.59 | -2.7031 |
| 21 | 50 | Bias | 600.87 | 602.31 | 1.4387 |
| 22 | 50 | Bias | 600.94 | 600.44 | -0.4968 |
| 23 | 50 | Bias | 600.94 | 601.56 | 0.6238 |
| 24 | 50 | Bias | 601.24 | 601.25 | 0.0128 |
| 25 | 50 | Bias | 601.38 | 601.45 | 0.0678 |
| 26 | 50 | Unbiased | 600.46 | 600.39 | -0.0678 |
| 27 | 50 | Unbiased | 600.66 | 600.39 | -0.2715 |
| 28 | 50 | Unbiased | 600.19 | 600.39 | 0.2037 |
| 29 | 50 | Unbiased | 599.88 | 599.85 | -0.034 |
| 30 | 50 | Unbiased | 600.63 | 600.7 | 0.0679 |
| 31 | 0 | Correlation | 600.77 | 600.56 | -0.2037 |
| 32 | 0 | Correlation | 600.8 | 600.83 | 0.034 |
| 33 | 0 | Correlation | 600.22 | 600.16 | -0.0679 |
| 34 | 0 | Correlation | 599.99 | 600.39 | 0.4073 |

## Test Statistics (mV)
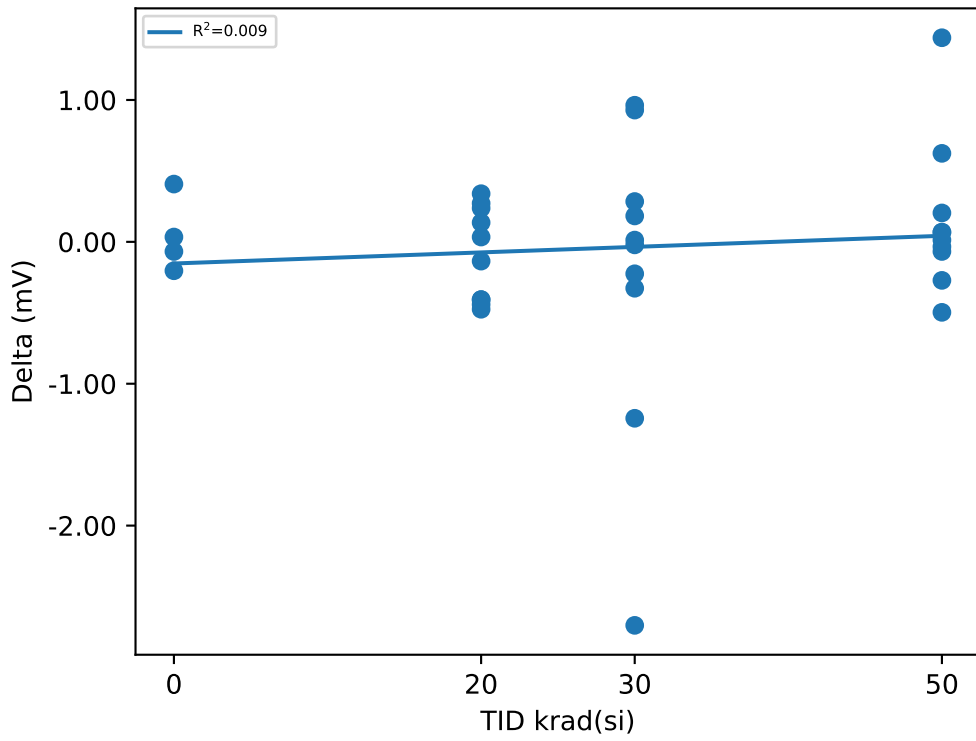
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 599.99 | 600.44 | 600.8 | 0.40394 | 600.16 | 600.49 | 600.83 | 0.28581 | -0.2037 | 0.042425 | 0.4073 | 0.26201 |
| 20 | 599.82 | 600.58 | 601.95 | 0.6591 | 599.44 | 600.49 | 601.99 | 0.74053 | -0.4751 | -0.08483 | 0.3394 | 0.3272 |
| 30 | 599.78 | 600.96 | 602.29 | 0.71462 | 599.59 | 600.74 | 601.53 | 0.55458 | -2.7031 | -0.21488 | 0.9629 | 1.0777 |
| 50 | 599.88 | 600.72 | 601.38 | 0.4568 | 599.85 | 600.87 | 602.31 | 0.74211 | -0.4968 | 0.15446 | 1.4387 | 0.53723 |

# Device Test: 19.7   VTH_SENSE(_LEVEL|RISE/SENSE3/1.6/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

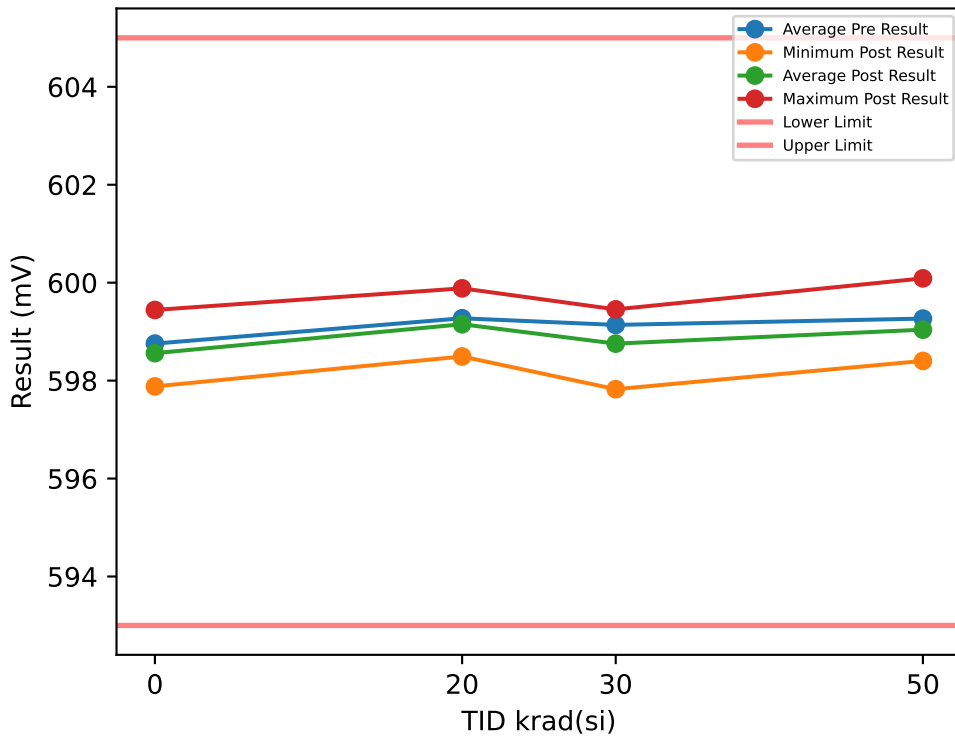| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 599.68 | 599.85 | 0.1696 |
| 2 | 20 | Bias | 598.73 | 598.7 | -0.0339 |
| 3 | 20 | Bias | 599.07 | 599.41 | 0.3394 |
| 4 | 20 | Bias | 600.29 | 599.88 | -0.4072 |
| 5 | 20 | Bias | 598.56 | 598.49 | -0.0679 |
| 6 | 20 | Unbiased | 598.59 | 598.73 | 0.1358 |
| 7 | 20 | Unbiased | 599 | 599.21 | 0.2036 |
| 8 | 20 | Unbiased | 599.95 | 599.58 | -0.3734 |
| 9 | 20 | Unbiased | 599.61 | 599.04 | -0.577 |
| 10 | 20 | Unbiased | 599.24 | 598.63 | -0.6109 |
| 11 | 30 | Bias | 599.85 | 597.83 | -2.0252 |
| 12 | 30 | Bias | 599.1 | 599.45 | 0.3512 |
| 13 | 30 | Bias | 598.76 | 598.78 | 0.0115 |
| 14 | 30 | Bias | 599.27 | 598.61 | -0.6674 |
| 15 | 30 | Bias | 599.38 | 599.01 | -0.3617 |
| 16 | 30 | Unbiased | 599.58 | 599.18 | -0.3955 |
| 17 | 30 | Unbiased | 598.8 | 599.12 | 0.3171 |
| 18 | 30 | Unbiased | 598.83 | 598.88 | 0.0455 |
| 19 | 30 | Unbiased | 598.63 | 598.54 | -0.0905 |
| 20 | 30 | Unbiased | 599.17 | 598.16 | -1.007 |
| 21 | 50 | Bias | 599.21 | 598.98 | -0.2259 |
| 22 | 50 | Bias | 599.38 | 598.4 | -0.9729 |
| 23 | 50 | Bias | 599.27 | 599.69 | 0.4192 |
| 24 | 50 | Bias | 599.58 | 599.05 | -0.5313 |
| 25 | 50 | Bias | 600.19 | 600.09 | -0.1018 |
| 26 | 50 | Unbiased | 598.8 | 598.53 | -0.2715 |
| 27 | 50 | Unbiased | 599.61 | 599.38 | -0.2376 |
| 28 | 50 | Unbiased | 599.07 | 598.93 | -0.1358 |
| 29 | 50 | Unbiased | 599 | 598.9 | -0.1018 |
| 30 | 50 | Unbiased | 598.56 | 598.46 | -0.1018 |
| 31 | 0 | Correlation | 598.63 | 598.32 | -0.3055 |
| 32 | 0 | Correlation | 599.61 | 599.44 | -0.1697 |
| 33 | 0 | Correlation | 598.53 | 598.59 | 0.0678 |
| 34 | 0 | Correlation | 598.26 | 597.88 | -0.3733 |

## Test Statistics (mV)
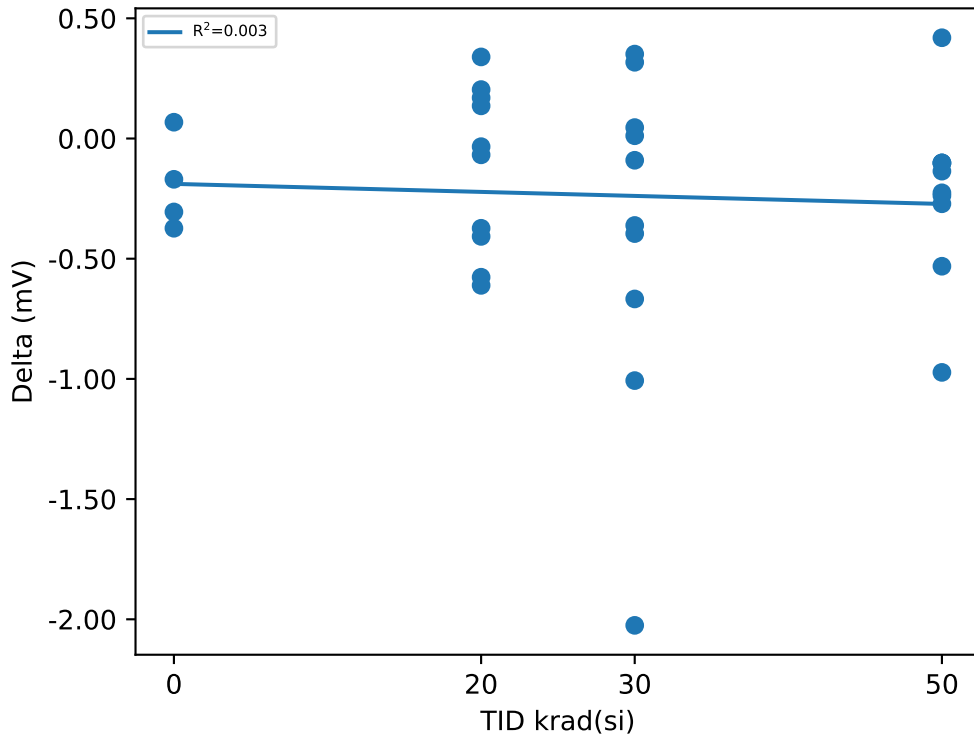
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.26 | 598.76 | 599.61 | 0.59261 | 597.88 | 598.56 | 599.44 | 0.65749 | -0.3733 | -0.19518 | 0.0678 | 0.19468 |
| 20 | 598.56 | 599.27 | 600.29 | 0.59238 | 598.49 | 599.15 | 599.88 | 0.51449 | -0.6109 | -0.12219 | 0.3394 | 0.34507 |
| 30 | 598.63 | 599.14 | 599.85 | 0.39252 | 597.83 | 598.76 | 599.45 | 0.49081 | -2.0252 | -0.3822 | 0.3512 | 0.7166 |
| 50 | 598.56 | 599.27 | 600.19 | 0.46085 | 598.4 | 599.04 | 600.09 | 0.54554 | -0.9729 | -0.22612 | 0.4192 | 0.35339 |

# Device Test: 19.8   VTH_SENSE(_LEVEL|FALL/SENSE3/1.6/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

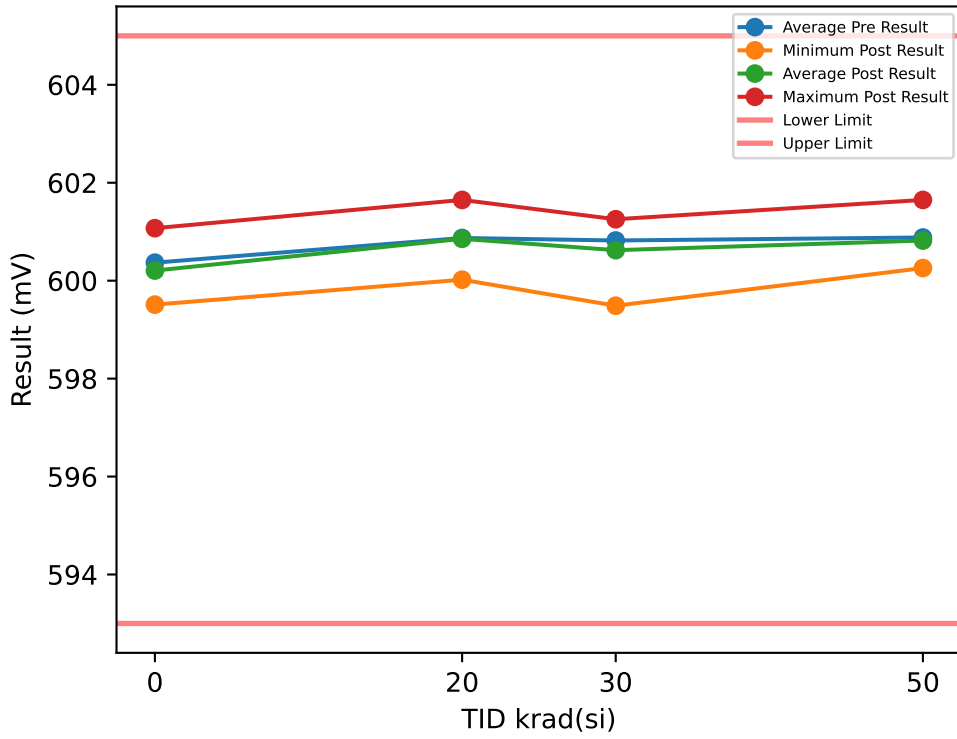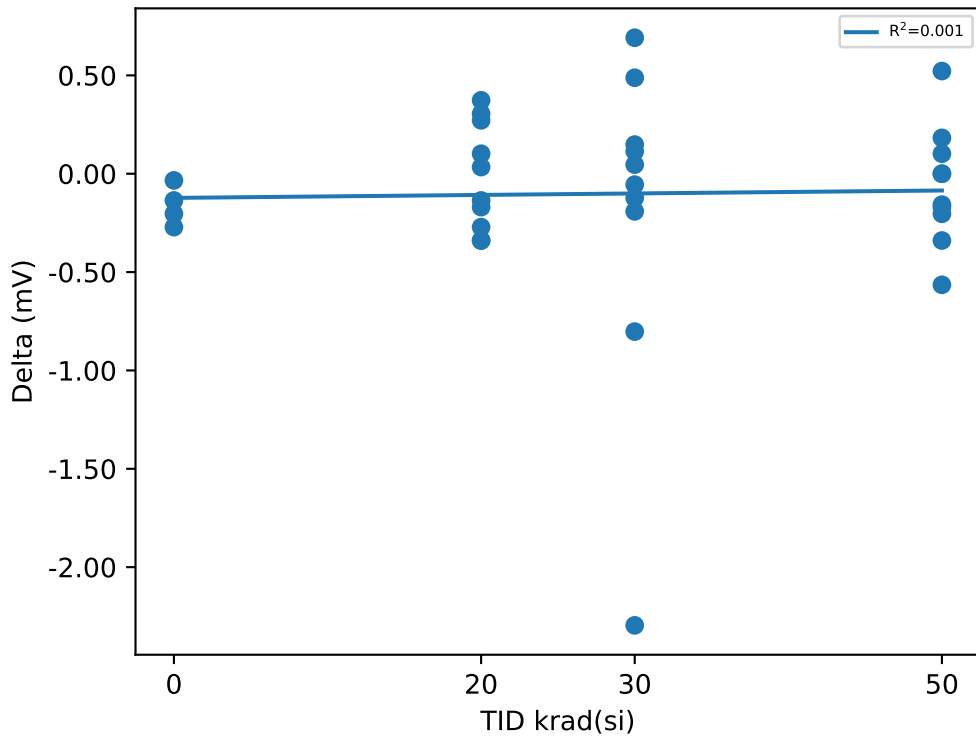| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 601.31 | 601.34 | 0.0339 |
| 2 | 20 | Bias | 600.26 | 600.36 | 0.1018 |
| 3 | 20 | Bias | 600.66 | 600.97 | 0.3054 |
| 4 | 20 | Bias | 601.78 | 601.65 | -0.1357 |
| 5 | 20 | Bias | 600.19 | 600.02 | -0.1697 |
| 6 | 20 | Unbiased | 600.39 | 600.66 | 0.2715 |
| 7 | 20 | Unbiased | 600.63 | 601 | 0.3733 |
| 8 | 20 | Unbiased | 601.51 | 601.17 | -0.3394 |
| 9 | 20 | Unbiased | 601.17 | 600.9 | -0.2715 |
| 10 | 20 | Unbiased | 600.8 | 600.46 | -0.3394 |
| 11 | 30 | Bias | 601.78 | 599.49 | -2.2959 |
| 12 | 30 | Bias | 600.77 | 601.25 | 0.4879 |
| 13 | 30 | Bias | 600.56 | 600.71 | 0.1483 |
| 14 | 30 | Bias | 600.94 | 600.75 | -0.1912 |
| 15 | 30 | Bias | 600.94 | 600.88 | -0.0553 |
| 16 | 30 | Unbiased | 601.17 | 601.05 | -0.1231 |
| 17 | 30 | Unbiased | 600.36 | 601.05 | 0.6914 |
| 18 | 30 | Unbiased | 600.43 | 600.54 | 0.1142 |
| 19 | 30 | Unbiased | 600.5 | 600.54 | 0.0463 |
| 20 | 30 | Unbiased | 600.77 | 599.96 | -0.8024 |
| 21 | 50 | Bias | 600.73 | 600.91 | 0.1824 |
| 22 | 50 | Bias | 600.87 | 600.3 | -0.5647 |
| 23 | 50 | Bias | 601.04 | 601.56 | 0.522 |
| 24 | 50 | Bias | 601.21 | 601.05 | -0.1571 |
| 25 | 50 | Bias | 601.65 | 601.65 | 0 |
| 26 | 50 | Unbiased | 600.66 | 600.33 | -0.3394 |
| 27 | 50 | Unbiased | 601.14 | 600.94 | -0.2036 |
| 28 | 50 | Unbiased | 600.8 | 600.63 | -0.1697 |
| 29 | 50 | Unbiased | 600.56 | 600.56 | 0 |
| 30 | 50 | Unbiased | 600.16 | 600.26 | 0.1018 |
| 31 | 0 | Correlation | 600.33 | 600.12 | -0.2036 |
| 32 | 0 | Correlation | 601.21 | 601.07 | -0.1358 |
| 33 | 0 | Correlation | 600.16 | 600.12 | -0.0339 |
| 34 | 0 | Correlation | 599.78 | 599.51 | -0.2715 |

## Test Statistics (mV)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 599.78 | 600.37 | 601.21 | 0.60417 | 599.51 | 600.21 | 601.07 | 0.6448 | -0.2715 | -0.1612 | -0.0339 | 0.10135 |
| 20 | 600.19 | 600.87 | 601.78 | 0.54827 | 600.02 | 600.85 | 601.65 | 0.48795 | -0.3394 | -0.01698 | 0.3733 | 0.27209 |
| 30 | 600.36 | 600.82 | 601.78 | 0.42515 | 599.49 | 600.62 | 601.25 | 0.53621 | -2.2959 | -0.19798 | 0.6914 | 0.83872 |
| 50 | 600.16 | 600.88 | 601.65 | 0.40702 | 600.26 | 600.82 | 601.65 | 0.49892 | -0.5647 | -0.06283 | 0.522 | 0.29919 |

# Device Test: 19.9   VTH_SENSE(_LEVEL|RISE/SENSE4/1.6/3/0/0/0/@VTH_SENSE )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



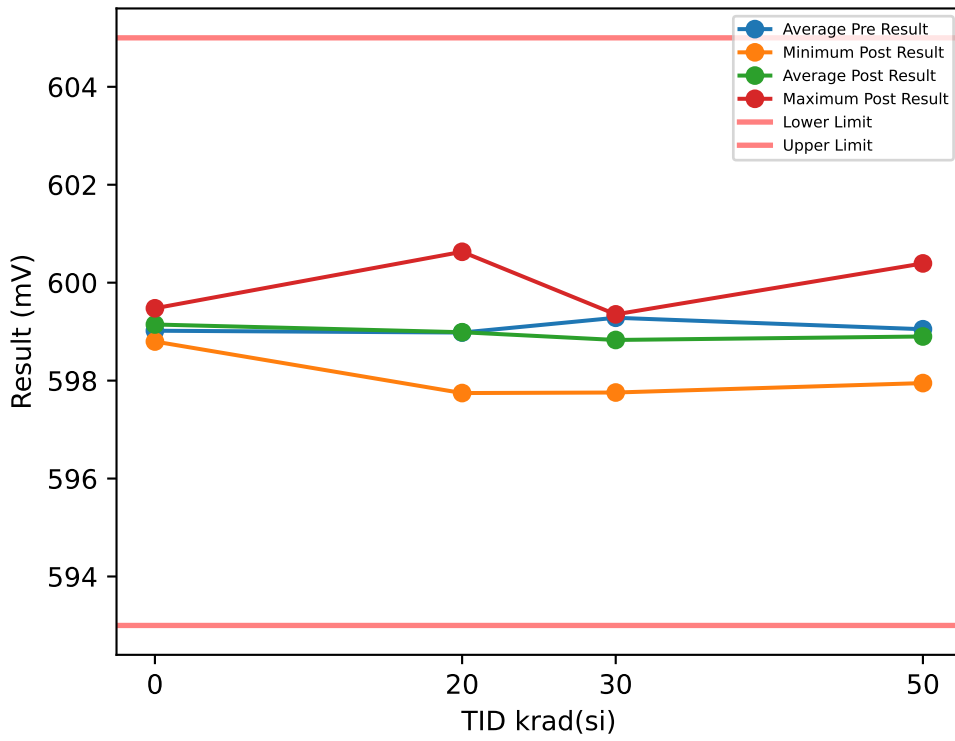## Test Results (Lower Limit = 593.0, Upper Limit = 605.0 (mV))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 598.56 | 598.59 | 0.0339 |
| 2 | 20 | Bias | 599.24 | 599.38 | 0.1357 |
| 3 | 20 | Bias | 598.26 | 598.73 | 0.4751 |
| 4 | 20 | Bias | 600.39 | 600.63 | 0.2375 |
| 5 | 20 | Bias | 598.09 | 597.75 | -0.3394 |
| 6 | 20 | Unbiased | 599.1 | 599.14 | 0.0339 |
| 7 | 20 | Unbiased | 599.65 | 599.99 | 0.3394 |
| 8 | 20 | Unbiased | 599.07 | 598.66 | -0.4073 |
| 9 | 20 | Unbiased | 598.83 | 598.49 | -0.3394 |
| 10 | 20 | Unbiased | 598.63 | 598.53 | -0.1018 |
| 11 | 30 | Bias | 599.95 | 599.08 | -0.8708 |
| 12 | 30 | Bias | 598.93 | 599.35 | 0.4191 |
| 13 | 30 | Bias | 598.39 | 598.67 | 0.283 |
| 14 | 30 | Bias | 599.38 | 598.27 | -1.1087 |
| 15 | 30 | Bias | 599.38 | 599.29 | -0.09 |
| 16 | 30 | Unbiased | 599.92 | 599.18 | -0.7349 |
| 17 | 30 | Unbiased | 599.14 | 599.15 | 0.0117 |
| 18 | 30 | Unbiased | 599.24 | 598.84 | -0.3958 |
| 19 | 30 | Unbiased | 598.36 | 598.71 | 0.3508 |
| 20 | 30 | Unbiased | 600.16 | 597.76 | -2.3987 |
| 21 | 50 | Bias | 598.73 | 600.07 | 1.3358 |
| 22 | 50 | Bias | 599 | 598.13 | -0.8712 |
| 23 | 50 | Bias | 598.97 | 599.32 | 0.3511 |
| 24 | 50 | Bias | 599.85 | 598.98 | -0.8707 |
| 25 | 50 | Bias | 600.39 | 600.39 | 0 |
| 26 | 50 | Unbiased | 598.73 | 598.66 | -0.0679 |
| 27 | 50 | Unbiased | 599.44 | 598.8 | -0.6448 |
| 28 | 50 | Unbiased | 598.53 | 598.26 | -0.2715 |
| 29 | 50 | Unbiased | 598.26 | 597.95 | -0.3055 |
| 30 | 50 | Unbiased | 598.59 | 598.46 | -0.1357 |
| 31 | 0 | Correlation | 599.24 | 599.17 | -0.0679 |
| 32 | 0 | Correlation | 599.21 | 599.14 | -0.0679 |
| 33 | 0 | Correlation | 598.87 | 598.8 | -0.0678 |
| 34 | 0 | Correlation | 598.76 | 599.48 | 0.7127 |

## Test Statistics (mV)
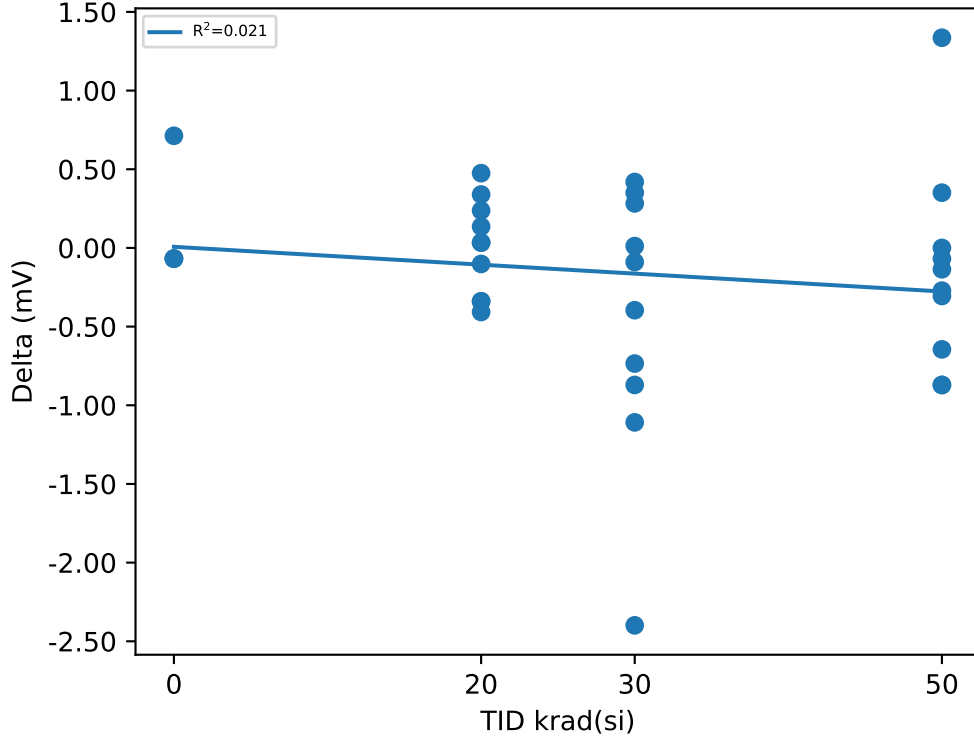
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 598.76 | 599.02 | 599.24 | 0.2392 | 598.8 | 599.15 | 599.48 | 0.2776 | -0.0679 | 0.12727 | 0.7127 | 0.39028 |
| 20 | 598.09 | 598.98 | 600.39 | 0.68143 | 597.75 | 598.99 | 600.63 | 0.82964 | -0.4073 | 0.00676 | 0.4751 | 0.30262 |
| 30 | 598.36 | 599.28 | 600.16 | 0.61715 | 597.76 | 598.83 | 599.35 | 0.5032 | -2.3987 | -0.45343 | 0.4191 | 0.86725 |
| 50 | 598.26 | 599.05 | 600.39 | 0.66045 | 597.95 | 598.9 | 600.39 | 0.81267 | -0.8712 | -0.14804 | 1.3358 | 0.65076 |

# Device Test: 20.1   EN_RPMOS_LOW_V(_RESISTANCE|SOURCE/EN1/1.6/3/0/0/2/@EN_RPMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

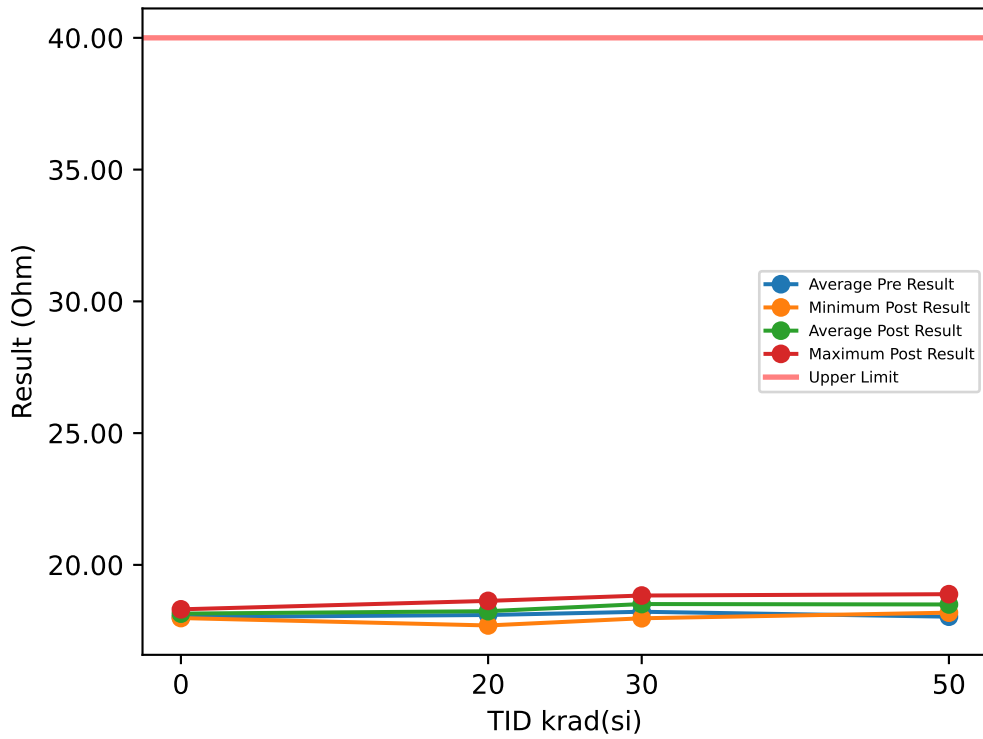| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 18.487 | 18.626 | 0.139 |
| 2 | 20 | Bias | 18.446 | 18.595 | 0.1483 |
| 3 | 20 | Bias | 18.479 | 18.634 | 0.1545 |
| 4 | 20 | Bias | 17.694 | 17.87 | 0.1764 |
| 5 | 20 | Bias | 18.057 | 18.217 | 0.1593 |
| 6 | 20 | Unbiased | 18.076 | 18.164 | 0.0875 |
| 7 | 20 | Unbiased | 18.092 | 18.246 | 0.1546 |
| 8 | 20 | Unbiased | 17.59 | 17.701 | 0.1109 |
| 9 | 20 | Unbiased | 18.106 | 18.249 | 0.1436 |
| 10 | 20 | Unbiased | 17.954 | 18.125 | 0.1702 |
| 11 | 30 | Bias | 18.51 | 18.539 | 0.0289 |
| 12 | 30 | Bias | 18.27 | 18.837 | 0.5675 |
| 13 | 30 | Bias | 18.399 | 18.558 | 0.1585 |
| 14 | 30 | Bias | 18.09 | 18.689 | 0.5987 |
| 15 | 30 | Bias | 18.602 | 18.338 | -0.2646 |
| 16 | 30 | Unbiased | 17.737 | 18.831 | 1.0937 |
| 17 | 30 | Unbiased | 18.05 | 17.974 | -0.0756 |
| 18 | 30 | Unbiased | 18.087 | 18.272 | 0.185 |
| 19 | 30 | Unbiased | 18.476 | 18.347 | -0.1287 |
| 20 | 30 | Unbiased | 17.995 | 18.755 | 0.7596 |
| 21 | 50 | Bias | 18.017 | 18.349 | 0.3318 |
| 22 | 50 | Bias | 17.993 | 18.402 | 0.4083 |
| 23 | 50 | Bias | 18.04 | 18.356 | 0.3162 |
| 24 | 50 | Bias | 17.984 | 18.408 | 0.4239 |
| 25 | 50 | Bias | 17.715 | 18.187 | 0.4716 |
| 26 | 50 | Unbiased | 18.185 | 18.754 | 0.5684 |
| 27 | 50 | Unbiased | 17.889 | 18.371 | 0.4824 |
| 28 | 50 | Unbiased | 18.323 | 18.888 | 0.5653 |
| 29 | 50 | Unbiased | 18.149 | 18.685 | 0.5356 |
| 30 | 50 | Unbiased | 18.042 | 18.579 | 0.5371 |
| 31 | 0 | Correlation | 18.334 | 18.314 | -0.0203 |
| 32 | 0 | Correlation | 18.035 | 18.042 | 0.0063 |
| 33 | 0 | Correlation | 17.992 | 17.982 | -0.0094 |
| 34 | 0 | Correlation | 17.709 | 18.265 | 0.5559 |

## Test Statistics (Ohm)
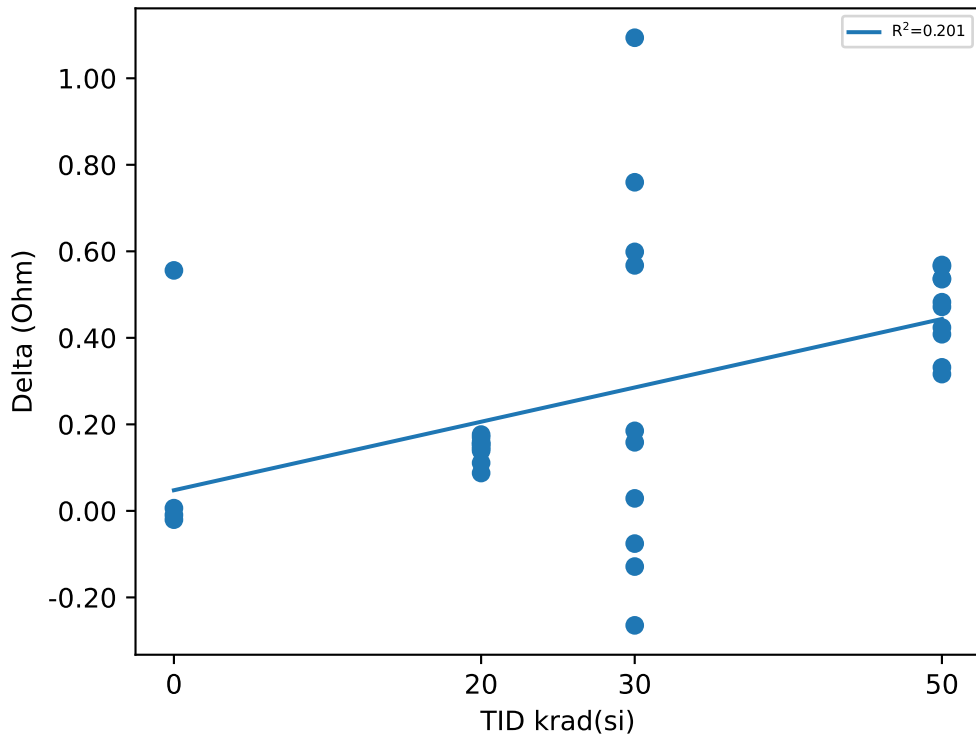
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.709 | 18.018 | 18.334 | 0.25566 | 17.982 | 18.151 | 18.314 | 0.16307 | -0.0203 | 0.13312 | 0.5559 | 0.28206 |
| 20 | 17.59 | 18.098 | 18.487 | 0.3094 | 17.701 | 18.243 | 18.634 | 0.31201 | 0.0875 | 0.14443 | 0.1764 | 0.026921 |
| 30 | 17.737 | 18.222 | 18.602 | 0.27439 | 17.974 | 18.514 | 18.837 | 0.27988 | -0.2646 | 0.2923 | 1.0937 | 0.44118 |
| 50 | 17.715 | 18.034 | 18.323 | 0.1656 | 18.187 | 18.498 | 18.888 | 0.21902 | 0.3162 | 0.46406 | 0.5684 | 0.09193 |
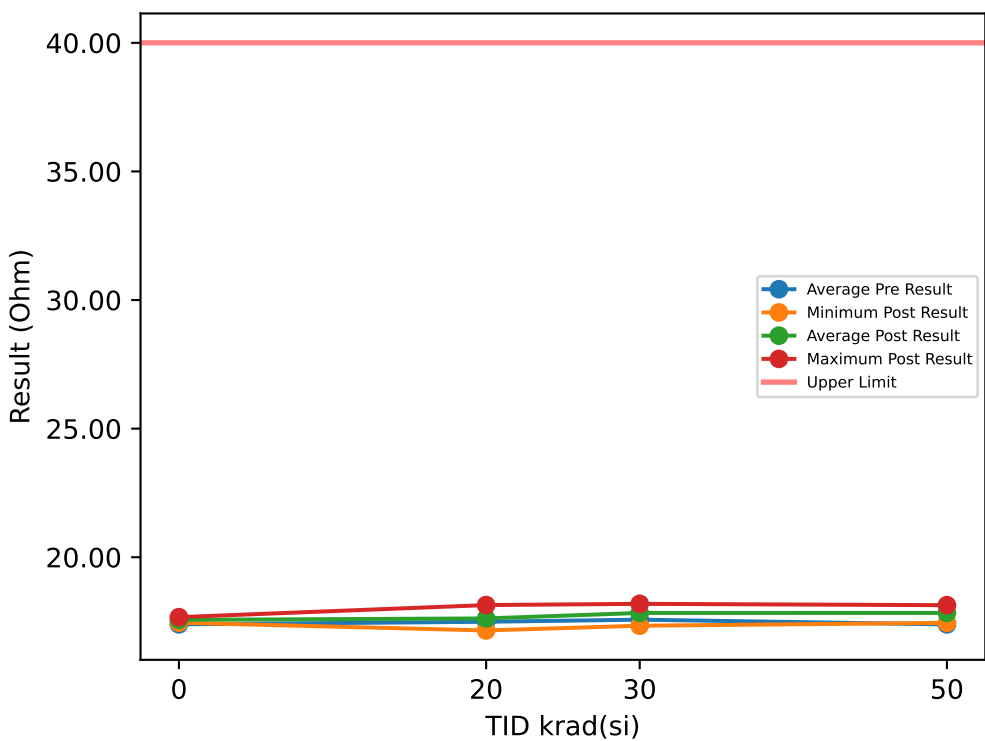
# Device Test: 20.10 EN_RPMOS_LOW_V(_RESISTANCE|SOURCE/EN4/1.6/14/0/0/2/@EN_RPMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 17.831 | 17.924 | 0.0937 |
| 2 | 20 | Bias | 17.806 | 17.92 | 0.114 |
| 3 | 20 | Bias | 17.971 | 18.14 | 0.1686 |
| 4 | 20 | Bias | 17.076 | 17.208 | 0.1312 |
| 5 | 20 | Bias | 17.415 | 17.55 | 0.1343 |
| 6 | 20 | Unbiased | 17.459 | 17.564 | 0.1046 |
| 7 | 20 | Unbiased | 17.47 | 17.612 | 0.1421 |
| 8 | 20 | Unbiased | 17.061 | 17.153 | 0.0921 |
| 9 | 20 | Unbiased | 17.468 | 17.645 | 0.1764 |
| 10 | 20 | Unbiased | 17.353 | 17.49 | 0.1374 |
| 11 | 30 | Bias | 17.956 | 17.884 | -0.0718 |
| 12 | 30 | Bias | 17.735 | 18.188 | 0.4528 |
| 13 | 30 | Bias | 17.689 | 17.962 | 0.2734 |
| 14 | 30 | Bias | 17.378 | 17.951 | 0.5731 |
| 15 | 30 | Bias | 17.931 | 17.615 | -0.3153 |
| 16 | 30 | Unbiased | 17.145 | 18.124 | 0.9791 |
| 17 | 30 | Unbiased | 17.284 | 17.337 | 0.0533 |
| 18 | 30 | Unbiased | 17.503 | 17.503 | 0.0002 |
| 19 | 30 | Unbiased | 17.821 | 17.729 | -0.0921 |
| 20 | 30 | Unbiased | 17.281 | 18.043 | 0.762 |
| 21 | 50 | Bias | 17.407 | 17.629 | 0.2218 |
| 22 | 50 | Bias | 17.459 | 17.748 | 0.289 |
| 23 | 50 | Bias | 17.404 | 17.812 | 0.4076 |
| 24 | 50 | Bias | 17.267 | 17.75 | 0.4826 |
| 25 | 50 | Bias | 16.997 | 17.448 | 0.4513 |
| 26 | 50 | Unbiased | 17.573 | 18.088 | 0.5153 |
| 27 | 50 | Unbiased | 17.248 | 17.757 | 0.5091 |
| 28 | 50 | Unbiased | 17.598 | 18.135 | 0.5371 |
| 29 | 50 | Unbiased | 17.57 | 18.081 | 0.5106 |
| 30 | 50 | Unbiased | 17.361 | 17.892 | 0.5309 |
| 31 | 0 | Correlation | 17.626 | 17.67 | 0.0437 |
| 32 | 0 | Correlation | 17.406 | 17.454 | 0.0484 |
| 33 | 0 | Correlation | 17.431 | 17.479 | 0.0484 |
| 34 | 0 | Correlation | 17.101 | 17.657 | 0.5559 |

## Test Statistics (Ohm)
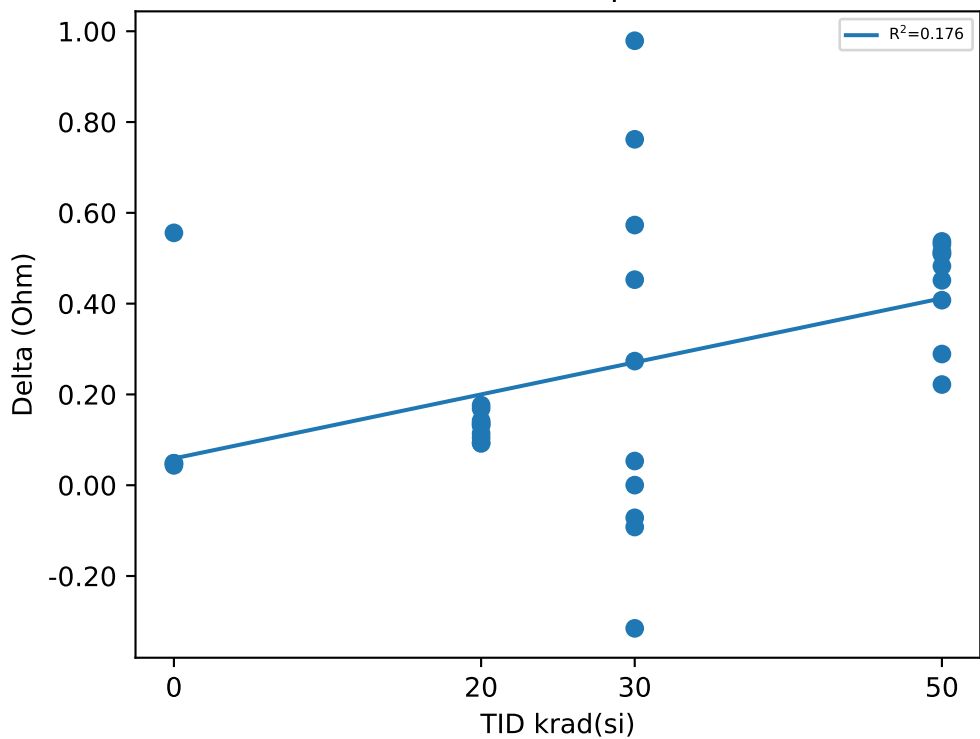
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.101 | 17.391 | 17.626 | 0.21676 | 17.454 | 17.565 | 17.67 | 0.11417 | 0.0437 | 0.1741 | 0.5559 | 0.25454 |
| 20 | 17.061 | 17.491 | 17.971 | 0.30345 | 17.153 | 17.62 | 18.14 | 0.31029 | 0.0921 | 0.12944 | 0.1764 | 0.028899 |
| 30 | 17.145 | 17.572 | 17.956 | 0.29259 | 17.337 | 17.834 | 18.188 | 0.27907 | -0.3153 | 0.26147 | 0.9791 | 0.41896 |
| 50 | 16.997 | 17.388 | 17.598 | 0.18412 | 17.448 | 17.834 | 18.135 | 0.21887 | 0.2218 | 0.44553 | 0.5371 | 0.10864 |

## TID vs Result Stats
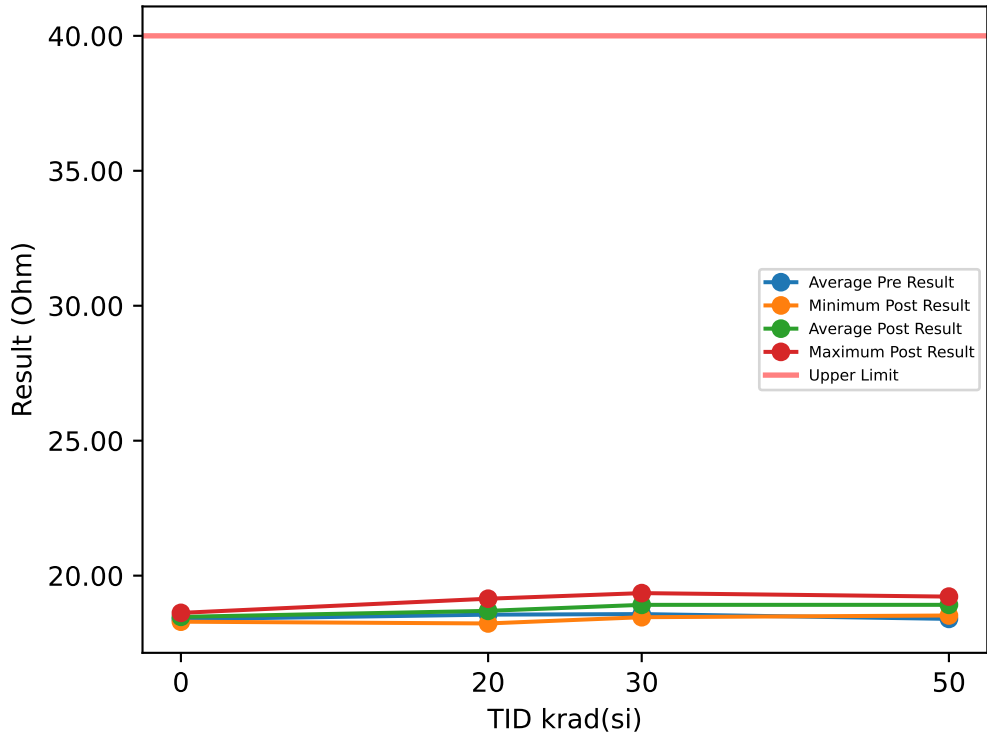


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 18.956 | 19.07 | 0.114 |
| 2 | 20 | Bias | 18.935 | 19.089 | 0.1546 |
| 3 | 20 | Bias | 18.981 | 19.145 | 0.164 |
| 4 | 20 | Bias | 18.093 | 18.229 | 0.1359 |
| 5 | 20 | Bias | 18.469 | 18.596 | 0.1265 |
| 6 | 20 | Unbiased | 18.519 | 18.622 | 0.1031 |
| 7 | 20 | Unbiased | 18.561 | 18.711 | 0.1499 |
| 8 | 20 | Unbiased | 18.11 | 18.258 | 0.1483 |
| 9 | 20 | Unbiased | 18.544 | 18.711 | 0.1671 |
| 10 | 20 | Unbiased | 18.377 | 18.521 | 0.1437 |
| 11 | 30 | Bias | 18.983 | 18.886 | -0.097 |
| 12 | 30 | Bias | 18.775 | 19.353 | 0.5776 |
| 13 | 30 | Bias | 18.602 | 19.105 | 0.5027 |
| 14 | 30 | Bias | 18.399 | 18.917 | 0.5184 |
| 15 | 30 | Bias | 18.877 | 18.699 | -0.1781 |
| 16 | 30 | Unbiased | 18.179 | 19.166 | 0.9868 |
| 17 | 30 | Unbiased | 18.336 | 18.46 | 0.1234 |
| 18 | 30 | Unbiased | 18.449 | 18.66 | 0.2107 |
| 19 | 30 | Unbiased | 18.844 | 18.756 | -0.0876 |
| 20 | 30 | Unbiased | 18.321 | 19.18 | 0.8588 |
| 21 | 50 | Bias | 18.383 | 18.725 | 0.3419 |
| 22 | 50 | Bias | 18.441 | 18.869 | 0.4279 |
| 23 | 50 | Bias | 18.408 | 18.922 | 0.5136 |
| 24 | 50 | Bias | 18.236 | 18.861 | 0.6245 |
| 25 | 50 | Bias | 18.046 | 18.524 | 0.4779 |
| 26 | 50 | Unbiased | 18.574 | 19.158 | 0.5841 |
| 27 | 50 | Unbiased | 18.201 | 18.724 | 0.5231 |
| 28 | 50 | Unbiased | 18.613 | 19.224 | 0.6107 |
| 29 | 50 | Unbiased | 18.647 | 19.169 | 0.5216 |
| 30 | 50 | Unbiased | 18.43 | 19.008 | 0.5779 |
| 31 | 0 | Correlation | 18.649 | 18.621 | -0.0281 |
| 32 | 0 | Correlation | 18.433 | 18.427 | -0.0062 |
| 33 | 0 | Correlation | 18.282 | 18.294 | 0.0124 |
| 34 | 0 | Correlation | 18.179 | 18.552 | 0.3732 |

## Test Statistics (Ohm)
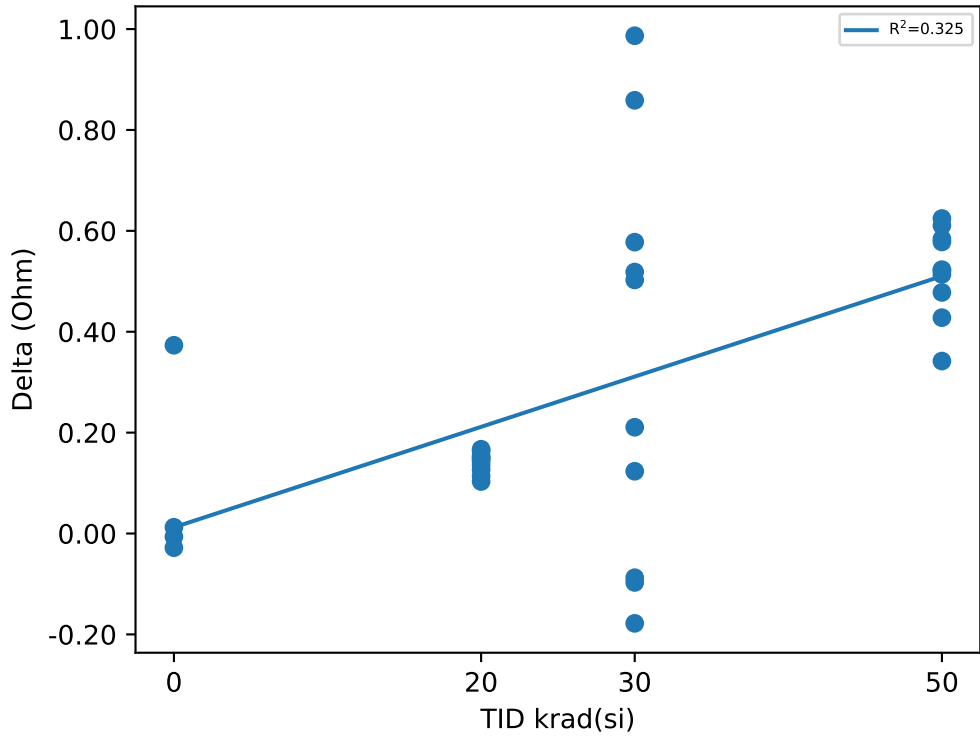
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 18.179 | 18.386 | 18.649 | 0.20422 | 18.294 | 18.473 | 18.621 | 0.1439 | -0.0281 | 0.087825 | 0.3732 | 0.19097 |
| 20 | 18.093 | 18.555 | 18.981 | 0.32305 | 18.229 | 18.695 | 19.145 | 0.32548 | 0.1031 | 0.14071 | 0.1671 | 0.020912 |
| 30 | 18.179 | 18.576 | 18.983 | 0.27814 | 18.46 | 18.918 | 19.353 | 0.28 | -0.1781 | 0.34157 | 0.9868 | 0.40935 |
| 50 | 18.046 | 18.398 | 18.647 | 0.19188 | 18.524 | 18.918 | 19.224 | 0.22555 | 0.3419 | 0.52032 | 0.6245 | 0.087327 |

## TID vs Result Stats
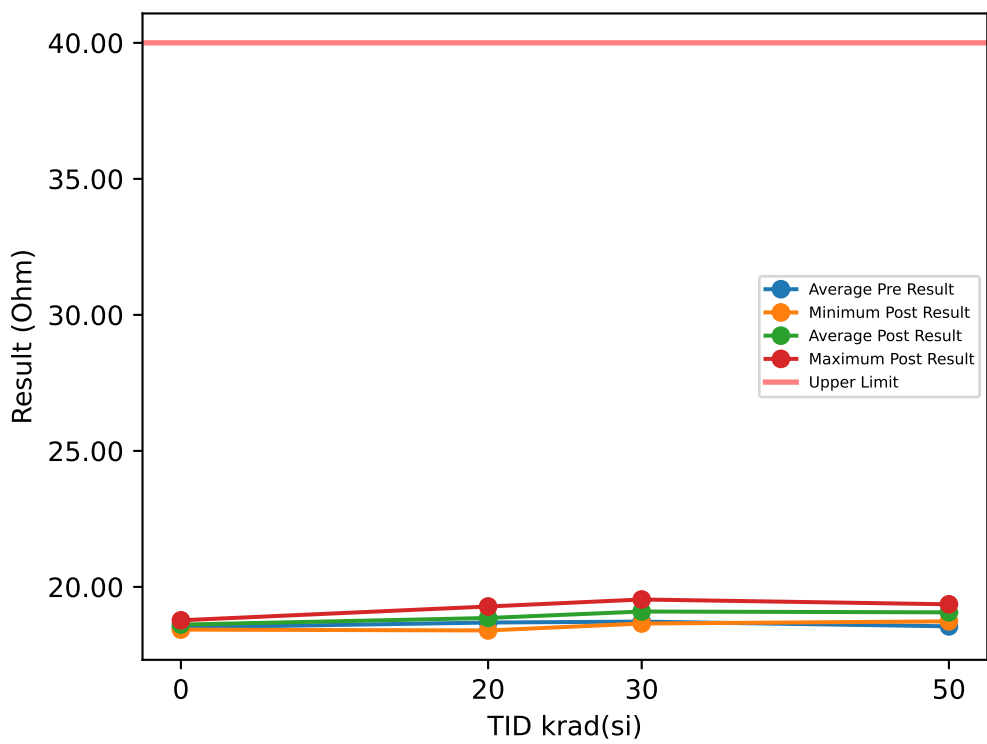


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 19.063 | 19.23 | 0.1671 |
| 2 | 20 | Bias | 19.058 | 19.233 | 0.1749 |
| 3 | 20 | Bias | 19.079 | 19.28 | 0.2015 |
| 4 | 20 | Bias | 18.238 | 18.399 | 0.1608 |
| 5 | 20 | Bias | 18.581 | 18.727 | 0.1468 |
| 6 | 20 | Unbiased | 18.665 | 18.769 | 0.1046 |
| 7 | 20 | Unbiased | 18.663 | 18.855 | 0.1921 |
| 8 | 20 | Unbiased | 18.32 | 18.452 | 0.1327 |
| 9 | 20 | Unbiased | 18.716 | 18.91 | 0.1937 |
| 10 | 20 | Unbiased | 18.523 | 18.718 | 0.1952 |
| 11 | 30 | Bias | 19.179 | 19.071 | -0.1075 |
| 12 | 30 | Bias | 18.887 | 19.538 | 0.6514 |
| 13 | 30 | Bias | 18.777 | 19.254 | 0.4766 |
| 14 | 30 | Bias | 18.57 | 19.115 | 0.5453 |
| 15 | 30 | Bias | 19.016 | 18.884 | -0.1323 |
| 16 | 30 | Unbiased | 18.341 | 19.33 | 0.9888 |
| 17 | 30 | Unbiased | 18.479 | 18.654 | 0.1752 |
| 18 | 30 | Unbiased | 18.623 | 18.846 | 0.2237 |
| 19 | 30 | Unbiased | 18.969 | 18.94 | -0.0293 |
| 20 | 30 | Unbiased | 18.409 | 19.319 | 0.9107 |
| 21 | 50 | Bias | 18.49 | 18.823 | 0.333 |
| 22 | 50 | Bias | 18.57 | 18.943 | 0.3736 |
| 23 | 50 | Bias | 18.529 | 19.035 | 0.5063 |
| 24 | 50 | Bias | 18.415 | 18.999 | 0.5844 |
| 25 | 50 | Bias | 18.227 | 18.733 | 0.506 |
| 26 | 50 | Unbiased | 18.73 | 19.344 | 0.6137 |
| 27 | 50 | Unbiased | 18.399 | 18.91 | 0.5107 |
| 28 | 50 | Unbiased | 18.732 | 19.347 | 0.6153 |
| 29 | 50 | Unbiased | 18.797 | 19.361 | 0.5638 |
| 30 | 50 | Unbiased | 18.621 | 19.158 | 0.5371 |
| 31 | 0 | Correlation | 18.801 | 18.76 | -0.0407 |
| 32 | 0 | Correlation | 18.544 | 18.493 | -0.0515 |
| 33 | 0 | Correlation | 18.426 | 18.431 | 0.0047 |
| 34 | 0 | Correlation | 18.27 | 18.773 | 0.5028 |

## Test Statistics (Ohm)
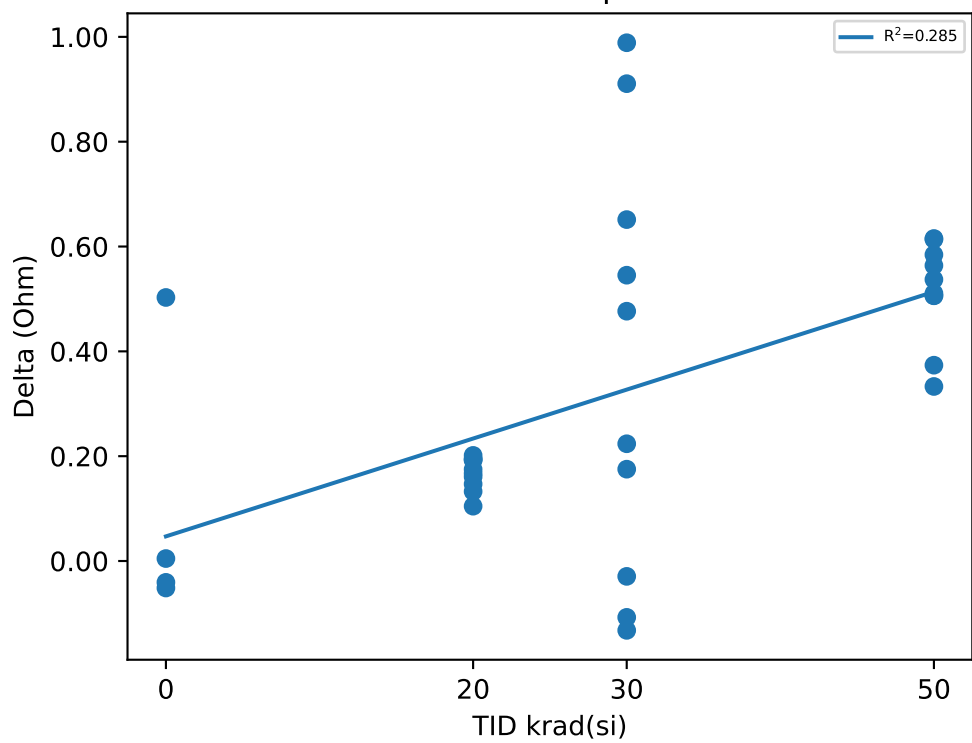
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 18.27 | 18.51 | 18.801 | 0.22399 | 18.431 | 18.614 | 18.773 | 0.17768 | -0.0515 | 0.10383 | 0.5028 | 0.2671 |
| 20 | 18.238 | 18.691 | 19.079 | 0.29977 | 18.399 | 18.857 | 19.28 | 0.31262 | 0.1046 | 0.16694 | 0.2015 | 0.03146 |
| 30 | 18.341 | 18.725 | 19.179 | 0.28309 | 18.654 | 19.095 | 19.538 | 0.26933 | -0.1323 | 0.37026 | 0.9888 | 0.40766 |
| 50 | 18.227 | 18.551 | 18.797 | 0.1768 | 18.733 | 19.065 | 19.361 | 0.22769 | 0.333 | 0.51439 | 0.6153 | 0.094738 |

# Device Test: 20.13  EN_RPMOS_HIGH_V(_RESISTANCE|SOURCE/EN1/7/3/0/0/2/@EN_RPMOS_HIGH_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

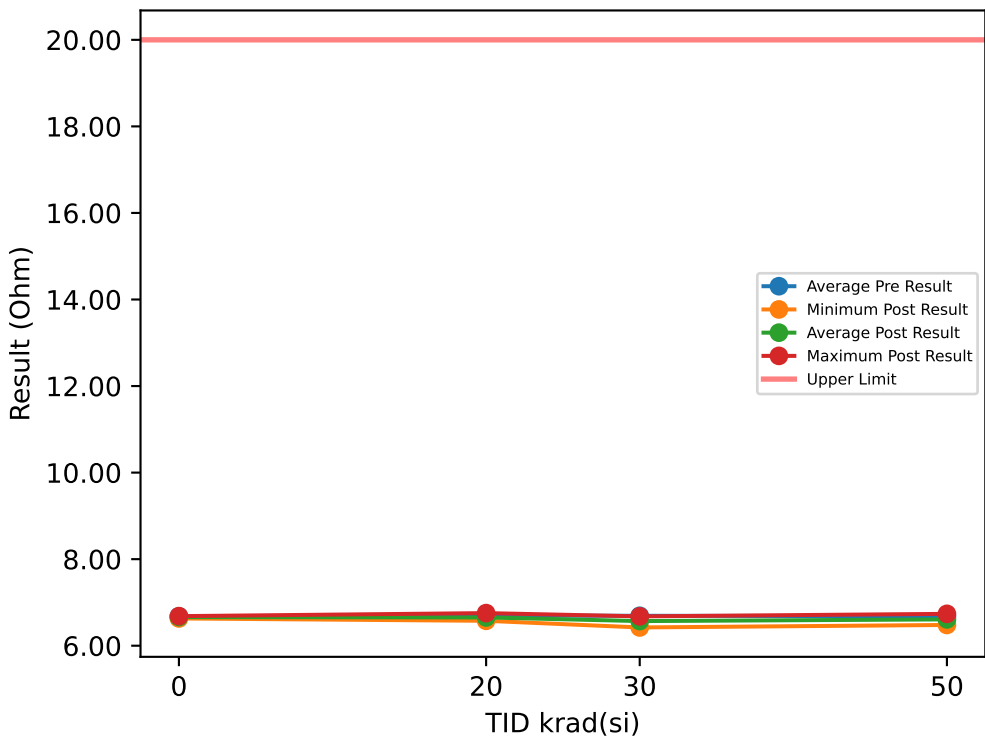| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 6.7816 | 6.7301 | -0.0515 |
| 2 | 20 | Bias | 6.7457 | 6.7332 | -0.0125 |
| 3 | 20 | Bias | 6.7863 | 6.7535 | -0.0328 |
| 4 | 20 | Bias | 6.6177 | 6.5755 | -0.0422 |
| 5 | 20 | Bias | 6.6817 | 6.6177 | -0.064 |
| 6 | 20 | Unbiased | 6.6879 | 6.6598 | -0.0281 |
| 7 | 20 | Unbiased | 6.6707 | 6.6395 | -0.0312 |
| 8 | 20 | Unbiased | 6.6504 | 6.5786 | -0.0718 |
| 9 | 20 | Unbiased | 6.6754 | 6.6364 | -0.039 |
| 10 | 20 | Unbiased | 6.6723 | 6.6036 | -0.0687 |
| 11 | 30 | Bias | 6.7863 | 6.5437 | -0.2426 |
| 12 | 30 | Bias | 6.6926 | 6.6779 | -0.0147 |
| 13 | 30 | Bias | 6.7316 | 6.5624 | -0.1692 |
| 14 | 30 | Bias | 6.6739 | 6.5858 | -0.0881 |
| 15 | 30 | Bias | 6.7722 | 6.5671 | -0.2051 |
| 16 | 30 | Unbiased | 6.5755 | 6.6592 | 0.0837 |
| 17 | 30 | Unbiased | 6.6348 | 6.4219 | -0.2129 |
| 18 | 30 | Unbiased | 6.652 | 6.5078 | -0.1442 |
| 19 | 30 | Unbiased | 6.7426 | 6.5218 | -0.2208 |
| 20 | 30 | Unbiased | 6.6536 | 6.6436 | -0.01 |
| 21 | 50 | Bias | 6.677 | 6.4797 | -0.1973 |
| 22 | 50 | Bias | 6.6614 | 6.5234 | -0.138 |
| 23 | 50 | Bias | 6.6114 | 6.5249 | -0.0865 |
| 24 | 50 | Bias | 6.691 | 6.5093 | -0.1817 |
| 25 | 50 | Bias | 6.6489 | 6.5817 | -0.0672 |
| 26 | 50 | Unbiased | 6.7301 | 6.7363 | 0.0062 |
| 27 | 50 | Unbiased | 6.6551 | 6.6567 | 0.0016 |
| 28 | 50 | Unbiased | 6.7379 | 6.7082 | -0.0297 |
| 29 | 50 | Unbiased | 6.7223 | 6.7113 | -0.011 |
| 30 | 50 | Unbiased | 6.6864 | 6.6504 | -0.036 |
| 31 | 0 | Correlation | 6.7285 | 6.677 | -0.0515 |
| 32 | 0 | Correlation | 6.6957 | 6.6582 | -0.0375 |
| 33 | 0 | Correlation | 6.6864 | 6.6301 | -0.0563 |
| 34 | 0 | Correlation | 6.6067 | 6.6832 | 0.0765 |

## Test Statistics (Ohm)
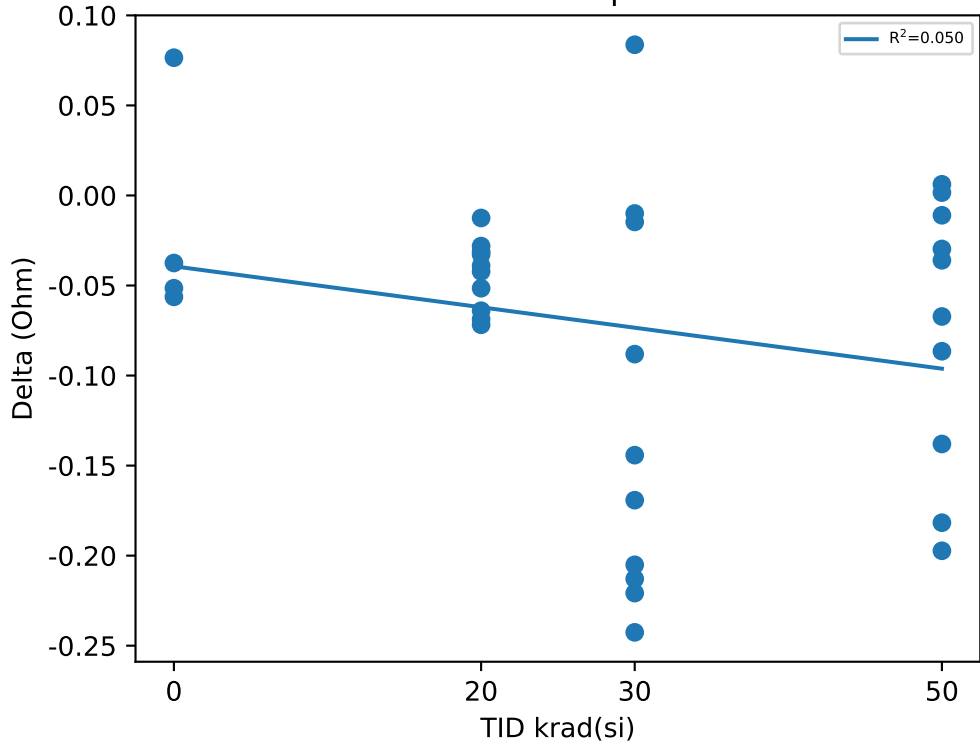
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6.6067 | 6.6793 | 6.7285 | 0.051675 | 6.6301 | 6.6621 | 6.6832 | 0.02385 | -0.0563 | -0.0172 | 0.0765 | 0.062974 |
| 20 | 6.6177 | 6.697 | 6.7863 | 0.055826 | 6.5755 | 6.6528 | 6.7535 | 0.065157 | -0.0718 | -0.04418 | -0.0125 | 0.019441 |
| 30 | 6.5755 | 6.6915 | 6.7863 | 0.066414 | 6.4219 | 6.5691 | 6.6779 | 0.077561 | -0.2426 | -0.12239 | 0.0837 | 0.11041 |
| 50 | 6.6114 | 6.6822 | 6.7379 | 0.040022 | 6.4797 | 6.6082 | 6.7363 | 0.095625 | -0.1973 | -0.07396 | 0.0062 | 0.074999 |

# Device Test: 20.14  EN_RPMOS_HIGH_V(_RESISTANCE|SOURCE/EN2/7/3/0/0/2/@EN_RPMOS_HIGH_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

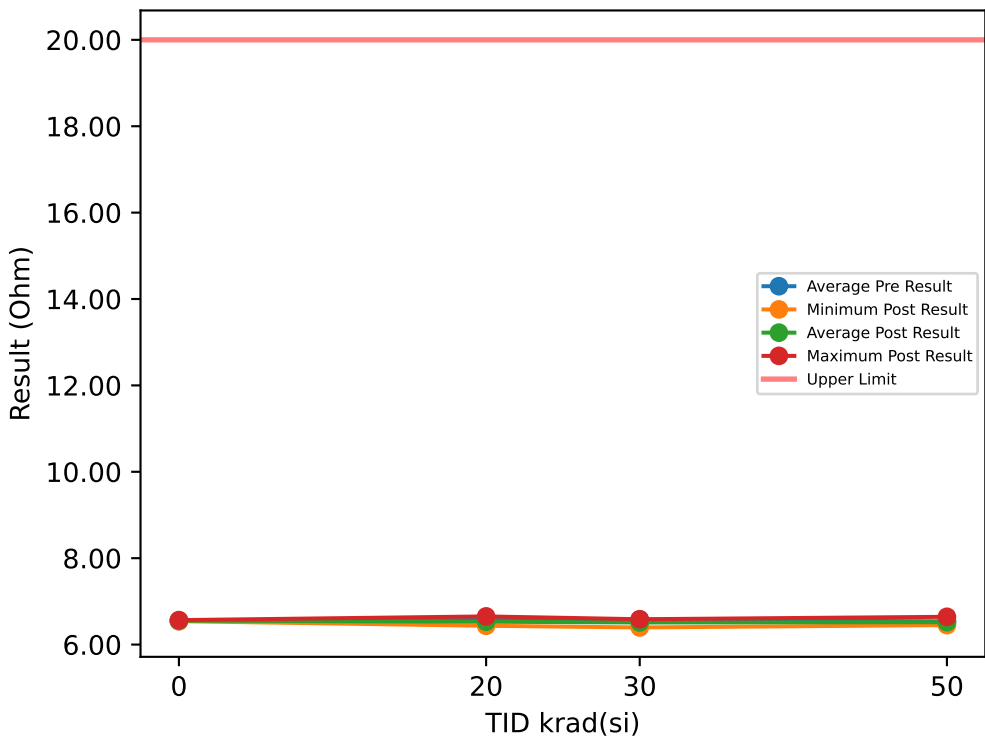| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 6.6474 | 6.5631 | -0.0843 |
| 2 | 20 | Bias | 6.6209 | 6.5678 | -0.0531 |
| 3 | 20 | Bias | 6.6927 | 6.6521 | -0.0406 |
| 4 | 20 | Bias | 6.4819 | 6.4351 | -0.0468 |
| 5 | 20 | Bias | 6.574 | 6.5397 | -0.0343 |
| 6 | 20 | Unbiased | 6.5756 | 6.5256 | -0.05 |
| 7 | 20 | Unbiased | 6.574 | 6.5366 | -0.0374 |
| 8 | 20 | Unbiased | 6.5319 | 6.485 | -0.0469 |
| 9 | 20 | Unbiased | 6.5256 | 6.5194 | -0.0062 |
| 10 | 20 | Unbiased | 6.4757 | 6.4663 | -0.0094 |
| 11 | 30 | Bias | 6.649 | 6.543 | -0.106 |
| 12 | 30 | Bias | 6.6037 | 6.5851 | -0.0186 |
| 13 | 30 | Bias | 6.6396 | 6.5367 | -0.1029 |
| 14 | 30 | Bias | 6.5459 | 6.504 | -0.0419 |
| 15 | 30 | Bias | 6.6708 | 6.4603 | -0.2105 |
| 16 | 30 | Unbiased | 6.5069 | 6.5867 | 0.0798 |
| 17 | 30 | Unbiased | 6.4975 | 6.3963 | -0.1012 |
| 18 | 30 | Unbiased | 6.5615 | 6.4509 | -0.1106 |
| 19 | 30 | Unbiased | 6.6177 | 6.4962 | -0.1215 |
| 20 | 30 | Unbiased | 6.4944 | 6.5555 | 0.0611 |
| 21 | 50 | Bias | 6.5241 | 6.4509 | -0.0732 |
| 22 | 50 | Bias | 6.5428 | 6.454 | -0.0888 |
| 23 | 50 | Bias | 6.4585 | 6.5055 | 0.047 |
| 24 | 50 | Bias | 6.5365 | 6.454 | -0.0825 |
| 25 | 50 | Bias | 6.4679 | 6.4538 | -0.0141 |
| 26 | 50 | Unbiased | 6.5912 | 6.599 | 0.0078 |
| 27 | 50 | Unbiased | 6.4991 | 6.5022 | 0.0031 |
| 28 | 50 | Unbiased | 6.574 | 6.5662 | -0.0078 |
| 29 | 50 | Unbiased | 6.6271 | 6.6427 | 0.0156 |
| 30 | 50 | Unbiased | 6.5475 | 6.5584 | 0.0109 |
| 31 | 0 | Correlation | 6.5881 | 6.5662 | -0.0219 |
| 32 | 0 | Correlation | 6.5459 | 6.5412 | -0.0047 |
| 33 | 0 | Correlation | 6.5631 | 6.5506 | -0.0125 |
| 34 | 0 | Correlation | 6.4835 | 6.5615 | 0.078 |

## Test Statistics (Ohm)
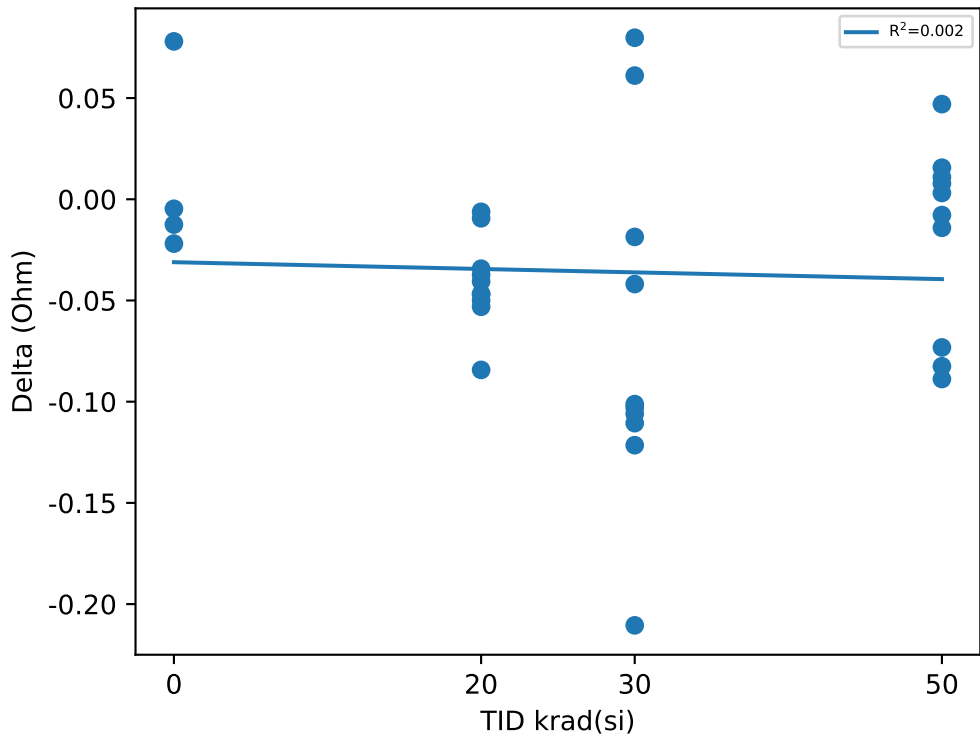
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 6.4835 | 6.5451 | 6.5881 | 0.044603 | 6.5412 | 6.5549 | 6.5662 | 0.011216 | -0.0219 | 0.009725 | 0.078 | 0.046057 |
| 20 | 6.4757 | 6.57 | 6.6927 | 0.069743 | 6.4351 | 6.5291 | 6.6521 | 0.060353 | -0.0843 | -0.0409 | -0.0062 | 0.022207 |
| 30 | 6.4944 | 6.5787 | 6.6708 | 0.066254 | 6.3963 | 6.5115 | 6.5867 | 0.061905 | -0.2105 | -0.06723 | 0.0798 | 0.088427 |
| 50 | 6.4585 | 6.5369 | 6.6271 | 0.052819 | 6.4509 | 6.5187 | 6.6427 | 0.069349 | -0.0888 | -0.0182 | 0.047 | 0.046713 |

# Device Test: 20.15  EN_RPMOS_HIGH_V(_RESISTANCE|SOURCE/EN3/7/3/0/0/2/@EN_RPMOS_HIGH_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

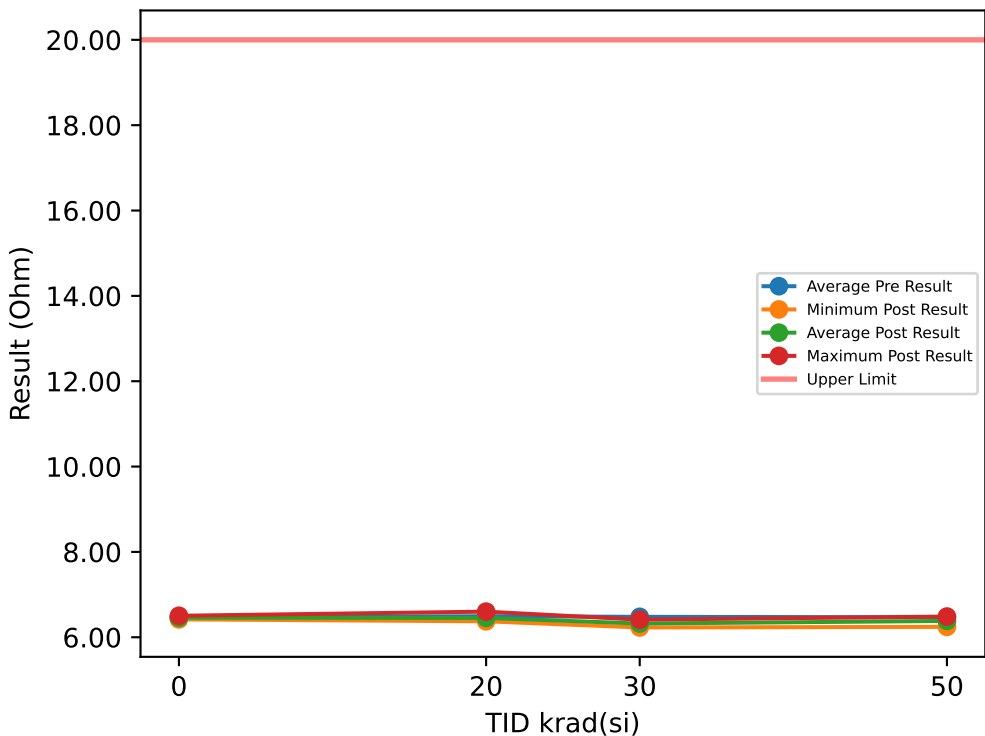| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 6.5553 | 6.5038 | -0.0515 |
| 2 | 20 | Bias | 6.5287 | 6.4975 | -0.0312 |
| 3 | 20 | Bias | 6.5803 | 6.6006 | 0.0203 |
| 4 | 20 | Bias | 6.4319 | 6.3867 | -0.0452 |
| 5 | 20 | Bias | 6.4819 | 6.4382 | -0.0437 |
| 6 | 20 | Unbiased | 6.5366 | 6.4429 | -0.0937 |
| 7 | 20 | Unbiased | 6.4897 | 6.4163 | -0.0734 |
| 8 | 20 | Unbiased | 6.4476 | 6.4273 | -0.0203 |
| 9 | 20 | Unbiased | 6.4444 | 6.4382 | -0.0062 |
| 10 | 20 | Unbiased | 6.4288 | 6.3742 | -0.0546 |
| 11 | 30 | Bias | 6.5568 | 6.3235 | -0.2333 |
| 12 | 30 | Bias | 6.5272 | 6.4125 | -0.1147 |
| 13 | 30 | Bias | 6.4866 | 6.3782 | -0.1084 |
| 14 | 30 | Bias | 6.4382 | 6.322 | -0.1162 |
| 15 | 30 | Bias | 6.5802 | 6.2595 | -0.3207 |
| 16 | 30 | Unbiased | 6.3773 | 6.4016 | 0.0243 |
| 17 | 30 | Unbiased | 6.4304 | 6.2298 | -0.2006 |
| 18 | 30 | Unbiased | 6.46 | 6.247 | -0.213 |
| 19 | 30 | Unbiased | 6.51 | 6.2907 | -0.2193 |
| 20 | 30 | Unbiased | 6.421 | 6.3469 | -0.0741 |
| 21 | 50 | Bias | 6.4678 | 6.2736 | -0.1942 |
| 22 | 50 | Bias | 6.4866 | 6.3063 | -0.1803 |
| 23 | 50 | Bias | 6.3882 | 6.3251 | -0.0631 |
| 24 | 50 | Bias | 6.4444 | 6.2439 | -0.2005 |
| 25 | 50 | Bias | 6.4304 | 6.3773 | -0.0531 |
| 26 | 50 | Unbiased | 6.4929 | 6.4819 | -0.011 |
| 27 | 50 | Unbiased | 6.4819 | 6.396 | -0.0859 |
| 28 | 50 | Unbiased | 6.5288 | 6.485 | -0.0438 |
| 29 | 50 | Unbiased | 6.5178 | 6.4663 | -0.0515 |
| 30 | 50 | Unbiased | 6.4429 | 6.4678 | 0.0249 |
| 31 | 0 | Correlation | 6.5163 | 6.5038 | -0.0125 |
| 32 | 0 | Correlation | 6.4476 | 6.4194 | -0.0282 |
| 33 | 0 | Correlation | 6.5038 | 6.4429 | -0.0609 |
| 34 | 0 | Correlation | 6.407 | 6.471 | 0.064 |

## Test Statistics (Ohm)
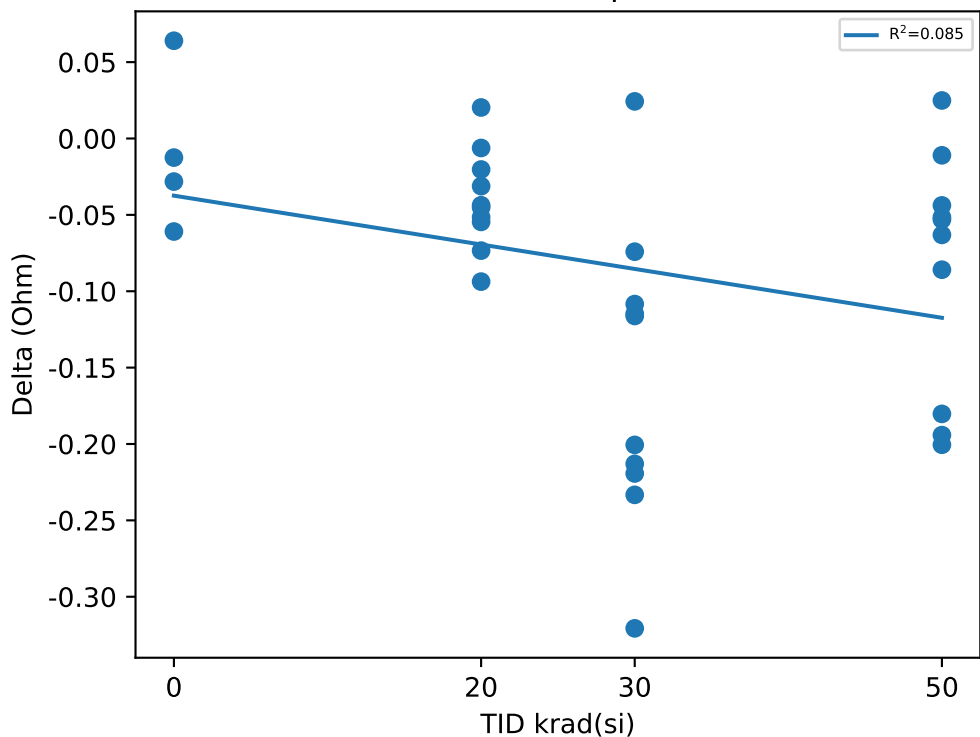
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6.407 | 6.4687 | 6.5163 | 0.050826 | 6.4194 | 6.4593 | 6.5038 | 0.036415 | -0.0609 | -0.0094 | 0.064 | 0.052924 |
| 20 | 6.4288 | 6.4925 | 6.5803 | 0.054861 | 6.3742 | 6.4526 | 6.6006 | 0.066247 | -0.0937 | -0.03995 | 0.0203 | 0.03271 |
| 30 | 6.3773 | 6.4788 | 6.5802 | 0.064748 | 6.2298 | 6.3212 | 6.4125 | 0.064388 | -0.3207 | -0.1576 | 0.0243 | 0.098371 |
| 50 | 6.3882 | 6.4682 | 6.5288 | 0.042563 | 6.2439 | 6.3823 | 6.485 | 0.091326 | -0.2005 | -0.08585 | 0.0249 | 0.07903 |

# Device Test: 20.16  EN_RPMOS_HIGH_V(_RESISTANCE|SOURCE/EN4/7/3/0/0/2/@EN_RPMOS_HIGH_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

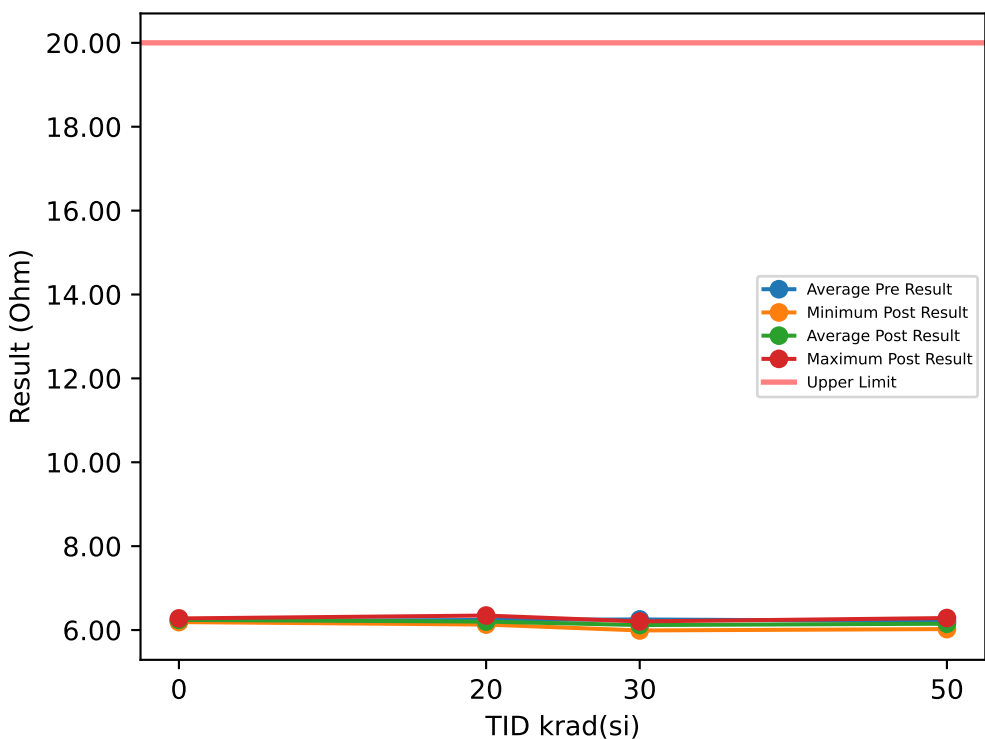| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 6.3008 | 6.2977 | -0.0031 |
| 2 | 20 | Bias | 6.2883 | 6.2087 | -0.0796 |
| 3 | 20 | Bias | 6.3804 | 6.3461 | -0.0343 |
| 4 | 20 | Bias | 6.1759 | 6.1431 | -0.0328 |
| 5 | 20 | Bias | 6.2212 | 6.1681 | -0.0531 |
| 6 | 20 | Unbiased | 6.243 | 6.1884 | -0.0546 |
| 7 | 20 | Unbiased | 6.2196 | 6.1821 | -0.0375 |
| 8 | 20 | Unbiased | 6.1727 | 6.1821 | 0.0094 |
| 9 | 20 | Unbiased | 6.2399 | 6.1634 | -0.0765 |
| 10 | 20 | Unbiased | 6.1634 | 6.1306 | -0.0328 |
| 11 | 30 | Bias | 6.3289 | 6.1198 | -0.2091 |
| 12 | 30 | Bias | 6.3226 | 6.2026 | -0.12 |
| 13 | 30 | Bias | 6.2633 | 6.1433 | -0.12 |
| 14 | 30 | Bias | 6.1837 | 6.1245 | -0.0592 |
| 15 | 30 | Bias | 6.3476 | 6.0715 | -0.2761 |
| 16 | 30 | Unbiased | 6.1852 | 6.2057 | 0.0205 |
| 17 | 30 | Unbiased | 6.1727 | 5.9903 | -0.1824 |
| 18 | 30 | Unbiased | 6.2243 | 6.0387 | -0.1856 |
| 19 | 30 | Unbiased | 6.282 | 6.1261 | -0.1559 |
| 20 | 30 | Unbiased | 6.2196 | 6.1667 | -0.0529 |
| 21 | 50 | Bias | 6.2086 | 6.0605 | -0.1481 |
| 22 | 50 | Bias | 6.2352 | 6.0839 | -0.1513 |
| 23 | 50 | Bias | 6.1962 | 6.1011 | -0.0951 |
| 24 | 50 | Bias | 6.1696 | 6.0231 | -0.1465 |
| 25 | 50 | Bias | 6.1587 | 6.0759 | -0.0828 |
| 26 | 50 | Unbiased | 6.2399 | 6.243 | 0.0031 |
| 27 | 50 | Unbiased | 6.2212 | 6.1962 | -0.025 |
| 28 | 50 | Unbiased | 6.2586 | 6.2867 | 0.0281 |
| 29 | 50 | Unbiased | 6.2321 | 6.2524 | 0.0203 |
| 30 | 50 | Unbiased | 6.2196 | 6.1837 | -0.0359 |
| 31 | 0 | Correlation | 6.2633 | 6.2586 | -0.0047 |
| 32 | 0 | Correlation | 6.2133 | 6.243 | 0.0297 |
| 33 | 0 | Correlation | 6.218 | 6.1899 | -0.0281 |
| 34 | 0 | Correlation | 6.1571 | 6.2774 | 0.1203 |

## Test Statistics (Ohm)
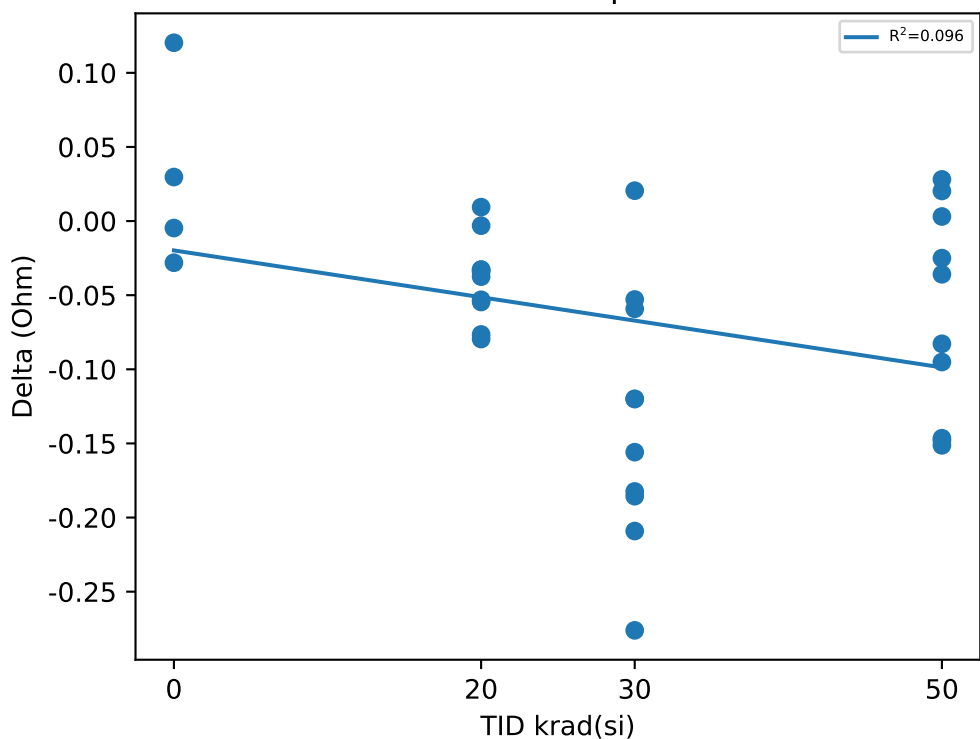
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6.1571 | 6.2129 | 6.2633 | 0.043512 | 6.1899 | 6.2422 | 6.2774 | 0.037612 | -0.0281 | 0.0293 | 0.1203 | 0.065146 |
| 20 | 6.1634 | 6.2405 | 6.3804 | 0.067514 | 6.1306 | 6.201 | 6.3461 | 0.068428 | -0.0796 | -0.03949 | 0.0094 | 0.028337 |
| 30 | 6.1727 | 6.253 | 6.3476 | 0.065224 | 5.9903 | 6.1189 | 6.2057 | 0.068897 | -0.2761 | -0.13407 | 0.0205 | 0.086764 |
| 50 | 6.1587 | 6.214 | 6.2586 | 0.031439 | 6.0231 | 6.1507 | 6.2867 | 0.092768 | -0.1513 | -0.06332 | 0.0281 | 0.070882 |
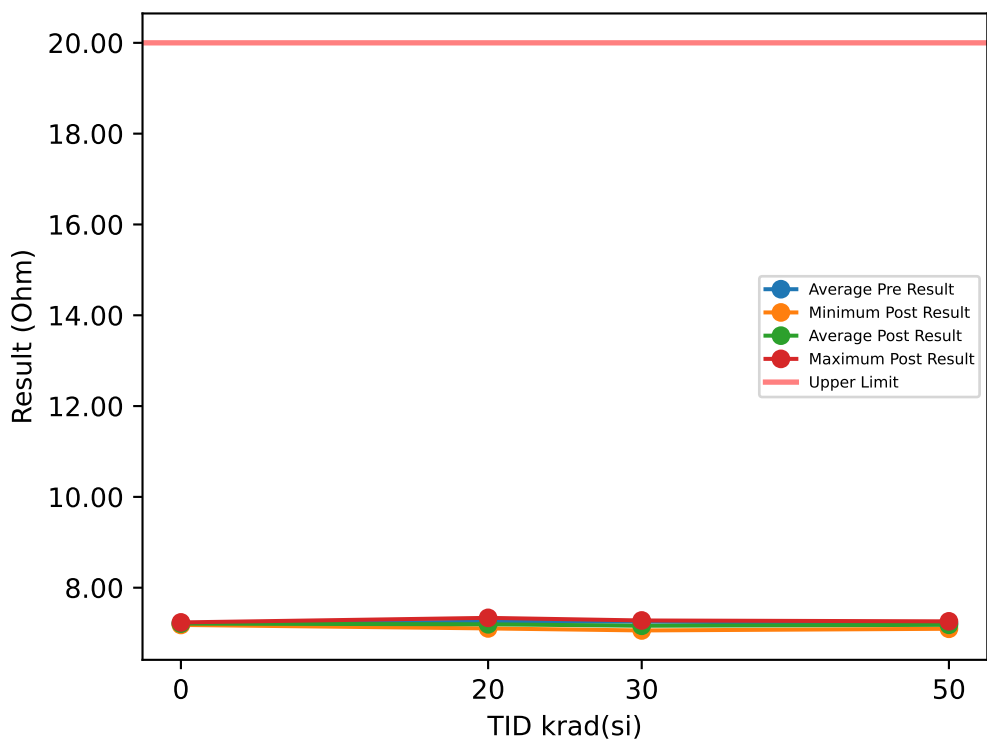
# Device Test: 20.17  PWRGD_RPMOS_HIGH_V(_RESISTANCE|SINK/PWRGD/7/3/0/0/2/@PWRGD_RPMOS_HIGH_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 7.3311 | 7.2639 | -0.0672 |
| 2 | 20 | Bias | 7.3435 | 7.2576 | -0.0859 |
| 3 | 20 | Bias | 7.4045 | 7.3357 | -0.0688 |
| 4 | 20 | Bias | 7.1921 | 7.103 | -0.0891 |
| 5 | 20 | Bias | 7.1952 | 7.1374 | -0.0578 |
| 6 | 20 | Unbiased | 7.2124 | 7.1733 | -0.0391 |
| 7 | 20 | Unbiased | 7.2217 | 7.1936 | -0.0281 |
| 8 | 20 | Unbiased | 7.1921 | 7.1436 | -0.0485 |
| 9 | 20 | Unbiased | 7.1999 | 7.1717 | -0.0282 |
| 10 | 20 | Unbiased | 7.1921 | 7.1608 | -0.0313 |
| 11 | 30 | Bias | 7.3592 | 7.1709 | -0.1883 |
| 12 | 30 | Bias | 7.3061 | 7.2786 | -0.0275 |
| 13 | 30 | Bias | 7.2264 | 7.1943 | -0.0321 |
| 14 | 30 | Bias | 7.2092 | 7.1256 | -0.0836 |
| 15 | 30 | Bias | 7.3482 | 7.0787 | -0.2695 |
| 16 | 30 | Unbiased | 7.1686 | 7.2333 | 0.0647 |
| 17 | 30 | Unbiased | 7.1842 | 7.0584 | -0.1258 |
| 18 | 30 | Unbiased | 7.2061 | 7.1146 | -0.0915 |
| 19 | 30 | Unbiased | 7.3467 | 7.1209 | -0.2258 |
| 20 | 30 | Unbiased | 7.1811 | 7.2396 | 0.0585 |
| 21 | 50 | Bias | 7.2139 | 7.124 | -0.0899 |
| 22 | 50 | Bias | 7.2264 | 7.1303 | -0.0961 |
| 23 | 50 | Bias | 7.1546 | 7.2021 | 0.0475 |
| 24 | 50 | Bias | 7.2342 | 7.1193 | -0.1149 |
| 25 | 50 | Bias | 7.1343 | 7.0952 | -0.0391 |
| 26 | 50 | Unbiased | 7.278 | 7.2405 | -0.0375 |
| 27 | 50 | Unbiased | 7.1858 | 7.1749 | -0.0109 |
| 28 | 50 | Unbiased | 7.2389 | 7.2405 | 0.0016 |
| 29 | 50 | Unbiased | 7.2795 | 7.2592 | -0.0203 |
| 30 | 50 | Unbiased | 7.2077 | 7.2389 | 0.0312 |
| 31 | 0 | Correlation | 7.2452 | 7.2077 | -0.0375 |
| 32 | 0 | Correlation | 7.1889 | 7.1796 | -0.0093 |
| 33 | 0 | Correlation | 7.2061 | 7.2124 | 0.0063 |
| 34 | 0 | Correlation | 7.1889 | 7.2358 | 0.0469 |

## Test Statistics (Ohm)
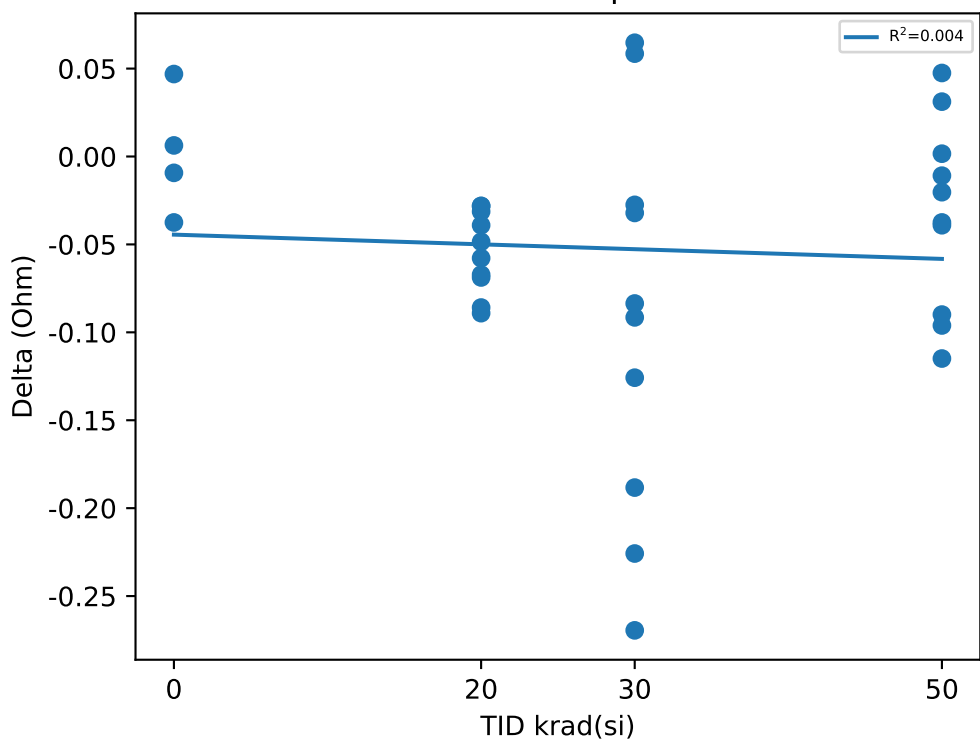
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 7.1889 | 7.2073 | 7.2452 | 0.026552 | 7.1796 | 7.2089 | 7.2358 | 0.023064 | -0.0375 | 0.0016 | 0.0469 | 0.035222 |
| 20 | 7.1921 | 7.2485 | 7.4045 | 0.079548 | 7.103 | 7.1941 | 7.3357 | 0.07076 | -0.0891 | -0.0544 | -0.0281 | 0.022997 |
| 30 | 7.1686 | 7.2536 | 7.3592 | 0.077308 | 7.0584 | 7.1615 | 7.2786 | 0.073601 | -0.2695 | -0.09209 | 0.0647 | 0.11296 |
| 50 | 7.1343 | 7.2153 | 7.2795 | 0.047453 | 7.0952 | 7.1825 | 7.2592 | 0.06146 | -0.1149 | -0.03284 | 0.0475 | 0.054194 |

## TID vs Result Stats
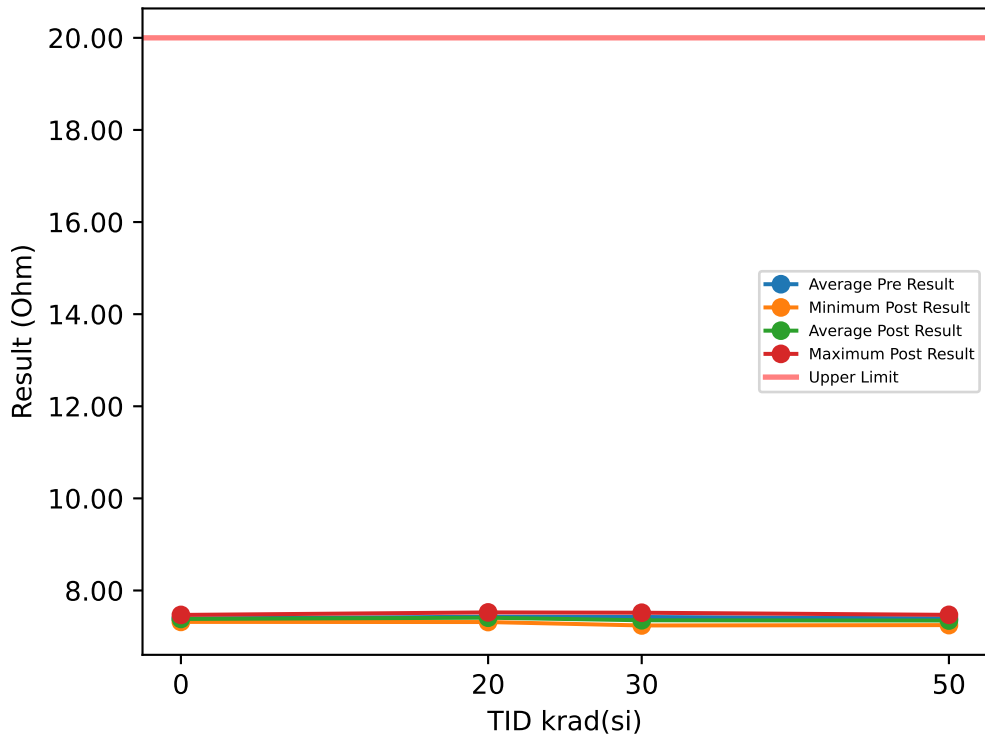


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 7.5179 | 7.5132 | -0.0047 |
| 2 | 20 | Bias | 7.5335 | 7.4632 | -0.0703 |
| 3 | 20 | Bias | 7.5553 | 7.5241 | -0.0312 |
| 4 | 20 | Bias | 7.3305 | 7.3149 | -0.0156 |
| 5 | 20 | Bias | 7.3695 | 7.3804 | 0.0109 |
| 6 | 20 | Unbiased | 7.4242 | 7.3867 | -0.0375 |
| 7 | 20 | Unbiased | 7.4007 | 7.4242 | 0.0235 |
| 8 | 20 | Unbiased | 7.4085 | 7.3883 | -0.0202 |
| 9 | 20 | Unbiased | 7.4085 | 7.3695 | -0.039 |
| 10 | 20 | Unbiased | 7.3554 | 7.3227 | -0.0327 |
| 11 | 30 | Bias | 7.5491 | 7.3423 | -0.2068 |
| 12 | 30 | Bias | 7.4866 | 7.5172 | 0.0306 |
| 13 | 30 | Bias | 7.4226 | 7.386 | -0.0366 |
| 14 | 30 | Bias | 7.3914 | 7.3345 | -0.0569 |
| 15 | 30 | Bias | 7.5397 | 7.2923 | -0.2474 |
| 16 | 30 | Unbiased | 7.3258 | 7.4625 | 0.1367 |
| 17 | 30 | Unbiased | 7.357 | 7.2408 | -0.1162 |
| 18 | 30 | Unbiased | 7.3867 | 7.2861 | -0.1006 |
| 19 | 30 | Unbiased | 7.4929 | 7.2705 | -0.2224 |
| 20 | 30 | Unbiased | 7.2961 | 7.4016 | 0.1055 |
| 21 | 50 | Bias | 7.3539 | 7.2486 | -0.1053 |
| 22 | 50 | Bias | 7.4304 | 7.2705 | -0.1599 |
| 23 | 50 | Bias | 7.3633 | 7.3548 | -0.0085 |
| 24 | 50 | Bias | 7.3726 | 7.2673 | -0.1053 |
| 25 | 50 | Bias | 7.3195 | 7.2883 | -0.0312 |
| 26 | 50 | Unbiased | 7.4382 | 7.4335 | -0.0047 |
| 27 | 50 | Unbiased | 7.3789 | 7.3945 | 0.0156 |
| 28 | 50 | Unbiased | 7.407 | 7.3867 | -0.0203 |
| 29 | 50 | Unbiased | 7.4757 | 7.471 | -0.0047 |
| 30 | 50 | Unbiased | 7.3929 | 7.3586 | -0.0343 |
| 31 | 0 | Correlation | 7.4445 | 7.4195 | -0.025 |
| 32 | 0 | Correlation | 7.3539 | 7.318 | -0.0359 |
| 33 | 0 | Correlation | 7.4101 | 7.3226 | -0.0875 |
| 34 | 0 | Correlation | 7.3539 | 7.4694 | 0.1155 |

## Test Statistics (Ohm)
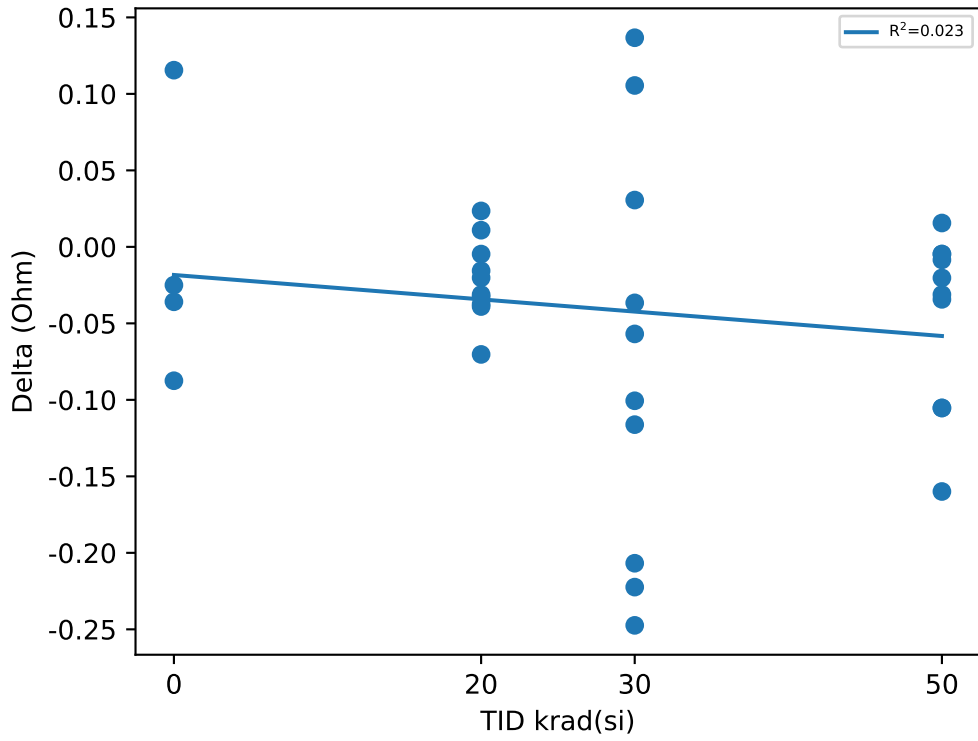
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 7.3539 | 7.3906 | 7.4445 | 0.044644 | 7.318 | 7.3824 | 7.4694 | 0.07454 | -0.0875 | -0.008225 | 0.1155 | 0.086871 |
| 20 | 7.3305 | 7.4304 | 7.5553 | 0.07823 | 7.3149 | 7.4087 | 7.5241 | 0.072173 | -0.0703 | -0.02168 | 0.0235 | 0.026991 |
| 30 | 7.2961 | 7.4248 | 7.5491 | 0.088596 | 7.2408 | 7.3534 | 7.5172 | 0.088452 | -0.2474 | -0.07141 | 0.1367 | 0.13391 |
| 50 | 7.3195 | 7.3932 | 7.4757 | 0.045831 | 7.2486 | 7.3474 | 7.471 | 0.07617 | -0.1599 | -0.04586 | 0.0156 | 0.057382 |
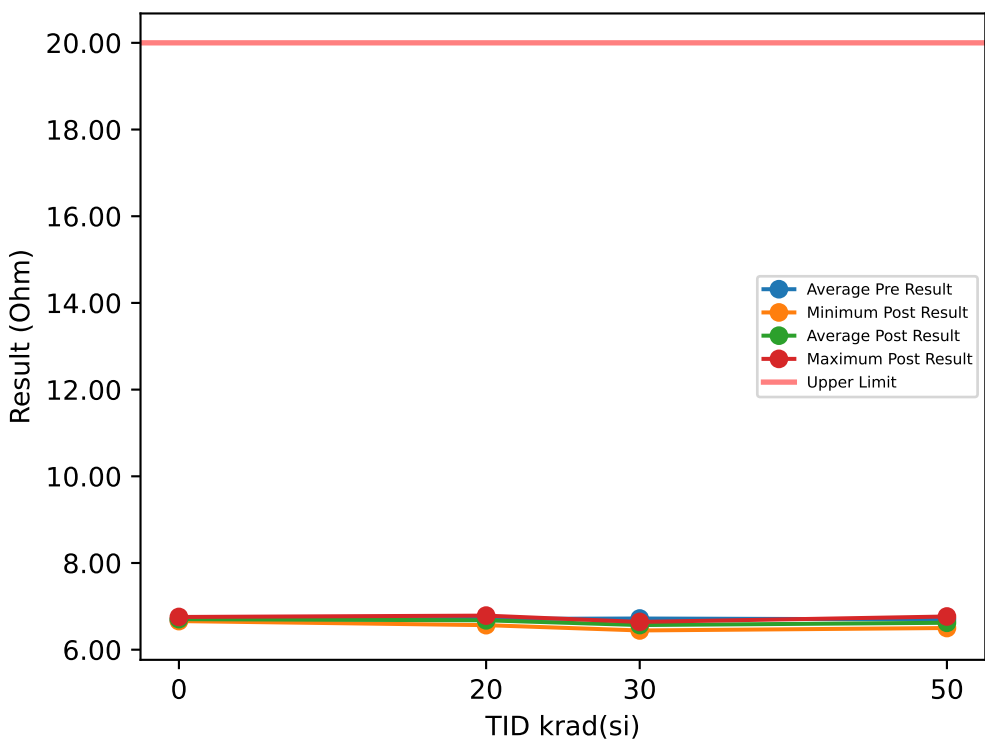
# Device Test: 20.19  EN_RPMOS_HIGH_V(_RESISTANCE|SOURCE/EN1/7/14/0/0/2/@EN_RPMOS_HIGH_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 6.7613 | 6.7348 | -0.0265 |
| 2 | 20 | Bias | 6.7504 | 6.7629 | 0.0125 |
| 3 | 20 | Bias | 6.8456 | 6.7863 | -0.0593 |
| 4 | 20 | Bias | 6.6052 | 6.6052 | 0 |
| 5 | 20 | Bias | 6.7067 | 6.6536 | -0.0531 |
| 6 | 20 | Unbiased | 6.7535 | 6.6629 | -0.0906 |
| 7 | 20 | Unbiased | 6.7129 | 6.6879 | -0.025 |
| 8 | 20 | Unbiased | 6.6083 | 6.5661 | -0.0422 |
| 9 | 20 | Unbiased | 6.702 | 6.6879 | -0.0141 |
| 10 | 20 | Unbiased | 6.6505 | 6.627 | -0.0235 |
| 11 | 30 | Bias | 6.8222 | 6.5827 | -0.2395 |
| 12 | 30 | Bias | 6.7269 | 6.6405 | -0.0864 |
| 13 | 30 | Bias | 6.7519 | 6.6061 | -0.1458 |
| 14 | 30 | Bias | 6.6895 | 6.6061 | -0.0834 |
| 15 | 30 | Bias | 6.8003 | 6.514 | -0.2863 |
| 16 | 30 | Unbiased | 6.5911 | 6.6358 | 0.0447 |
| 17 | 30 | Unbiased | 6.652 | 6.4438 | -0.2082 |
| 18 | 30 | Unbiased | 6.6942 | 6.5296 | -0.1646 |
| 19 | 30 | Unbiased | 6.7941 | 6.5187 | -0.2754 |
| 20 | 30 | Unbiased | 6.6739 | 6.6077 | -0.0662 |
| 21 | 50 | Bias | 6.6707 | 6.5 | -0.1707 |
| 22 | 50 | Bias | 6.7035 | 6.5202 | -0.1833 |
| 23 | 50 | Bias | 6.6692 | 6.5452 | -0.124 |
| 24 | 50 | Bias | 6.6817 | 6.514 | -0.1677 |
| 25 | 50 | Bias | 6.638 | 6.6098 | -0.0282 |
| 26 | 50 | Unbiased | 6.7285 | 6.766 | 0.0375 |
| 27 | 50 | Unbiased | 6.7036 | 6.6973 | -0.0063 |
| 28 | 50 | Unbiased | 6.7348 | 6.7129 | -0.0219 |
| 29 | 50 | Unbiased | 6.7332 | 6.7082 | -0.025 |
| 30 | 50 | Unbiased | 6.7192 | 6.6364 | -0.0828 |
| 31 | 0 | Correlation | 6.7207 | 6.741 | 0.0203 |
| 32 | 0 | Correlation | 6.6676 | 6.6645 | -0.0031 |
| 33 | 0 | Correlation | 6.6911 | 6.6598 | -0.0313 |
| 34 | 0 | Correlation | 6.6442 | 6.7551 | 0.1109 |

## Test Statistics (Ohm)
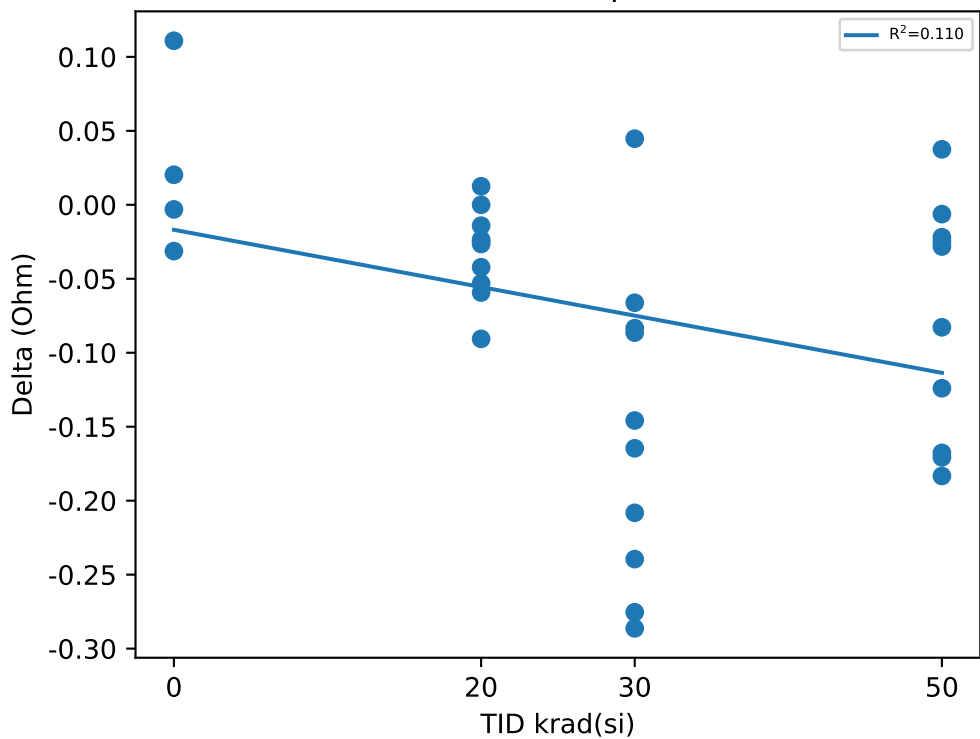
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6.6442 | 6.6809 | 6.7207 | 0.03272 | 6.6598 | 6.7051 | 6.7551 | 0.049964 | -0.0313 | 0.0242 | 0.1109 | 0.06153 |
| 20 | 6.6052 | 6.7096 | 6.8456 | 0.074156 | 6.5661 | 6.6775 | 6.7863 | 0.069604 | -0.0906 | -0.03218 | 0.0125 | 0.030193 |
| 30 | 6.5911 | 6.7196 | 6.8222 | 0.073339 | 6.4438 | 6.5685 | 6.6405 | 0.063938 | -0.2863 | -0.15111 | 0.0447 | 0.10506 |
| 50 | 6.638 | 6.6982 | 6.7348 | 0.032446 | 6.5 | 6.621 | 6.766 | 0.097328 | -0.1833 | -0.07724 | 0.0375 | 0.079427 |
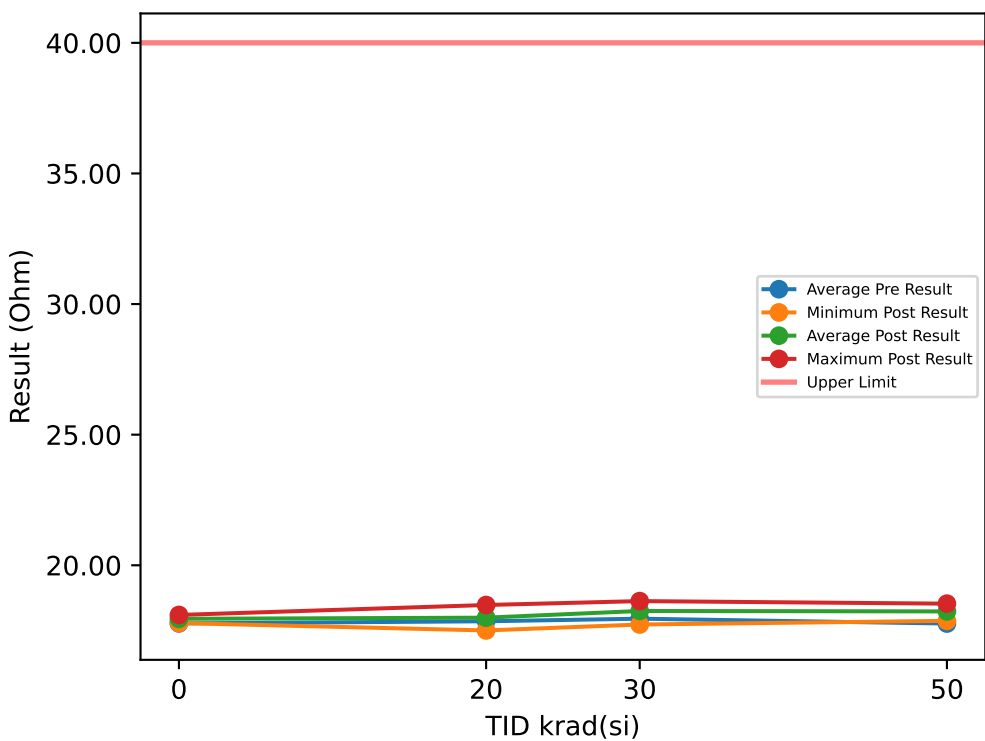
# Device Test: 20.2   EN_RPMOS_LOW_V(_RESISTANCE|SOURCE/EN2/1.6/3/0/0/2/@EN_RPMOS_LOW_V )

## TID vs Result Stats

## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 18.164 | 18.301 | 0.1374 |
| 2 | 20 | Bias | 18.108 | 18.264 | 0.1562 |
| 3 | 20 | Bias | 18.279 | 18.479 | 0.1999 |
| 4 | 20 | Bias | 17.419 | 17.535 | 0.1156 |
| 5 | 20 | Bias | 17.867 | 18.003 | 0.1359 |
| 6 | 20 | Unbiased | 17.881 | 18.025 | 0.1437 |
| 7 | 20 | Unbiased | 17.876 | 17.995 | 0.1187 |
| 8 | 20 | Unbiased | 17.397 | 17.505 | 0.1078 |
| 9 | 20 | Unbiased | 17.869 | 18.008 | 0.139 |
| 10 | 20 | Unbiased | 17.701 | 17.83 | 0.1281 |
| 11 | 30 | Bias | 18.325 | 18.321 | -0.0035 |
| 12 | 30 | Bias | 18.115 | 18.629 | 0.5133 |
| 13 | 30 | Bias | 18.095 | 18.349 | 0.2542 |
| 14 | 30 | Bias | 17.753 | 18.393 | 0.6398 |
| 15 | 30 | Bias | 18.317 | 18.023 | -0.2937 |
| 16 | 30 | Unbiased | 17.513 | 18.535 | 1.0224 |
| 17 | 30 | Unbiased | 17.67 | 17.733 | 0.0624 |
| 18 | 30 | Unbiased | 17.866 | 17.965 | 0.0998 |
| 19 | 30 | Unbiased | 18.176 | 18.099 | -0.0767 |
| 20 | 30 | Unbiased | 17.725 | 18.459 | 0.7335 |
| 21 | 50 | Bias | 17.747 | 18.089 | 0.3418 |
| 22 | 50 | Bias | 17.812 | 18.135 | 0.323 |
| 23 | 50 | Bias | 17.767 | 18.192 | 0.4245 |
| 24 | 50 | Bias | 17.655 | 18.106 | 0.451 |
| 25 | 50 | Bias | 17.41 | 17.873 | 0.4638 |
| 26 | 50 | Unbiased | 17.948 | 18.498 | 0.5497 |
| 27 | 50 | Unbiased | 17.6 | 18.1 | 0.4997 |
| 28 | 50 | Unbiased | 17.959 | 18.531 | 0.5715 |
| 29 | 50 | Unbiased | 17.995 | 18.526 | 0.5309 |
| 30 | 50 | Unbiased | 17.802 | 18.29 | 0.4887 |
| 31 | 0 | Correlation | 18.005 | 18.028 | 0.0234 |
| 32 | 0 | Correlation | 17.769 | 17.789 | 0.0203 |
| 33 | 0 | Correlation | 17.83 | 17.889 | 0.0593 |
| 34 | 0 | Correlation | 17.497 | 18.098 | 0.6011 |

## Test Statistics (Ohm)
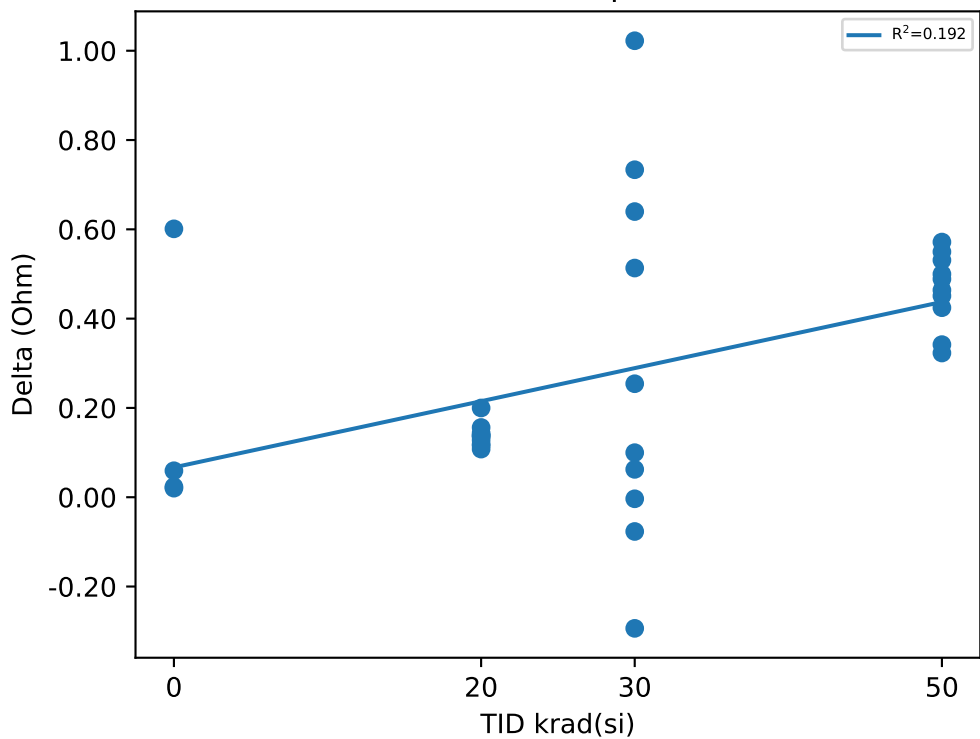
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.497 | 17.775 | 18.005 | 0.21054 | 17.789 | 17.951 | 18.098 | 0.13863 | 0.0203 | 0.17603 | 0.6011 | 0.28394 |
| 20 | 17.397 | 17.856 | 18.279 | 0.29137 | 17.505 | 17.994 | 18.479 | 0.3129 | 0.1078 | 0.13823 | 0.1999 | 0.026002 |
| 30 | 17.513 | 17.955 | 18.325 | 0.28676 | 17.733 | 18.251 | 18.629 | 0.28405 | -0.2937 | 0.29515 | 1.0224 | 0.41575 |
| 50 | 17.41 | 17.769 | 17.995 | 0.18065 | 17.873 | 18.234 | 18.531 | 0.22195 | 0.323 | 0.46446 | 0.5715 | 0.082867 |
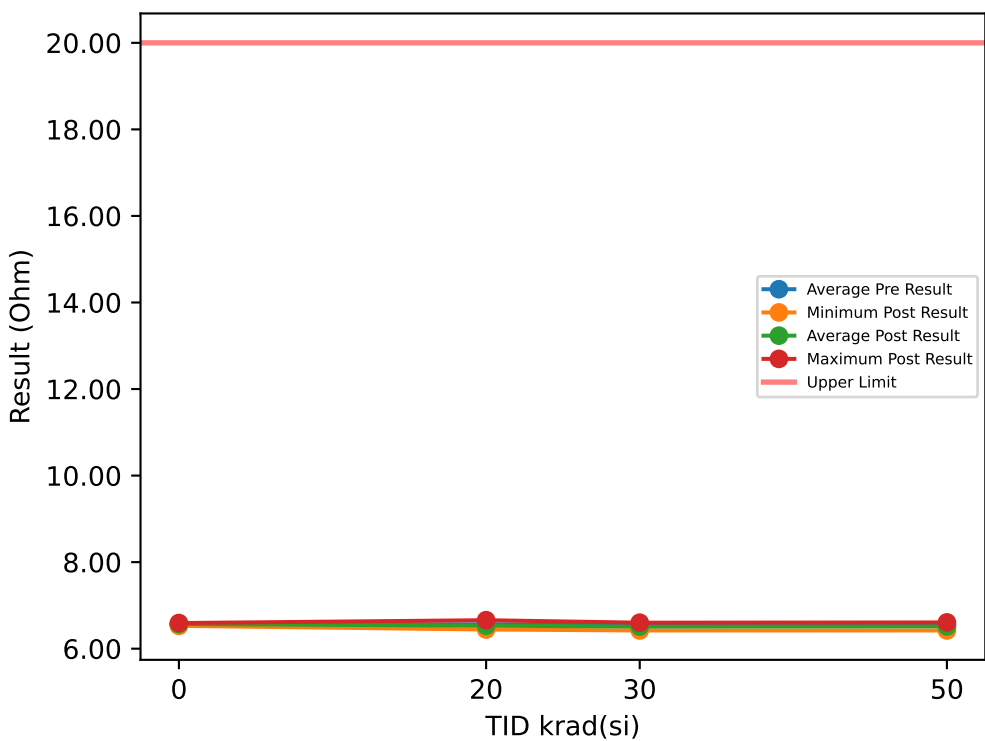
# Device Test: 20.20 EN_RPMOS_HIGH_V(_RESISTANCE|SOURCE/EN2/7/14/0/0/2/@EN_RPMOS_HIGH_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 6.6115 | 6.5569 | -0.0546 |
| 2 | 20 | Bias | 6.5896 | 6.5584 | -0.0312 |
| 3 | 20 | Bias | 6.7239 | 6.6584 | -0.0655 |
| 4 | 20 | Bias | 6.4835 | 6.4429 | -0.0406 |
| 5 | 20 | Bias | 6.5475 | 6.5366 | -0.0109 |
| 6 | 20 | Unbiased | 6.5709 | 6.5615 | -0.0094 |
| 7 | 20 | Unbiased | 6.5459 | 6.5412 | -0.0047 |
| 8 | 20 | Unbiased | 6.5459 | 6.4928 | -0.0531 |
| 9 | 20 | Unbiased | 6.5366 | 6.5022 | -0.0344 |
| 10 | 20 | Unbiased | 6.4679 | 6.4585 | -0.0094 |
| 11 | 30 | Bias | 6.6661 | 6.5336 | -0.1325 |
| 12 | 30 | Bias | 6.5818 | 6.6007 | 0.0189 |
| 13 | 30 | Bias | 6.6052 | 6.5461 | -0.0591 |
| 14 | 30 | Bias | 6.51 | 6.5196 | 0.0096 |
| 15 | 30 | Bias | 6.6958 | 6.4447 | -0.2511 |
| 16 | 30 | Unbiased | 6.4585 | 6.5945 | 0.136 |
| 17 | 30 | Unbiased | 6.4725 | 6.4259 | -0.0466 |
| 18 | 30 | Unbiased | 6.5522 | 6.4212 | -0.131 |
| 19 | 30 | Unbiased | 6.6162 | 6.4774 | -0.1388 |
| 20 | 30 | Unbiased | 6.5209 | 6.543 | 0.0221 |
| 21 | 50 | Bias | 6.5428 | 6.4587 | -0.0841 |
| 22 | 50 | Bias | 6.5615 | 6.4212 | -0.1403 |
| 23 | 50 | Bias | 6.4835 | 6.5243 | 0.0408 |
| 24 | 50 | Bias | 6.5287 | 6.4275 | -0.1012 |
| 25 | 50 | Bias | 6.4897 | 6.4866 | -0.0031 |
| 26 | 50 | Unbiased | 6.6053 | 6.5818 | -0.0235 |
| 27 | 50 | Unbiased | 6.5147 | 6.5131 | -0.0016 |
| 28 | 50 | Unbiased | 6.6053 | 6.5787 | -0.0266 |
| 29 | 50 | Unbiased | 6.6412 | 6.6068 | -0.0344 |
| 30 | 50 | Unbiased | 6.5678 | 6.5537 | -0.0141 |
| 31 | 0 | Correlation | 6.5912 | 6.5771 | -0.0141 |
| 32 | 0 | Correlation | 6.5631 | 6.5272 | -0.0359 |
| 33 | 0 | Correlation | 6.6053 | 6.5834 | -0.0219 |
| 34 | 0 | Correlation | 6.4975 | 6.5928 | 0.0953 |

## Test Statistics (Ohm)
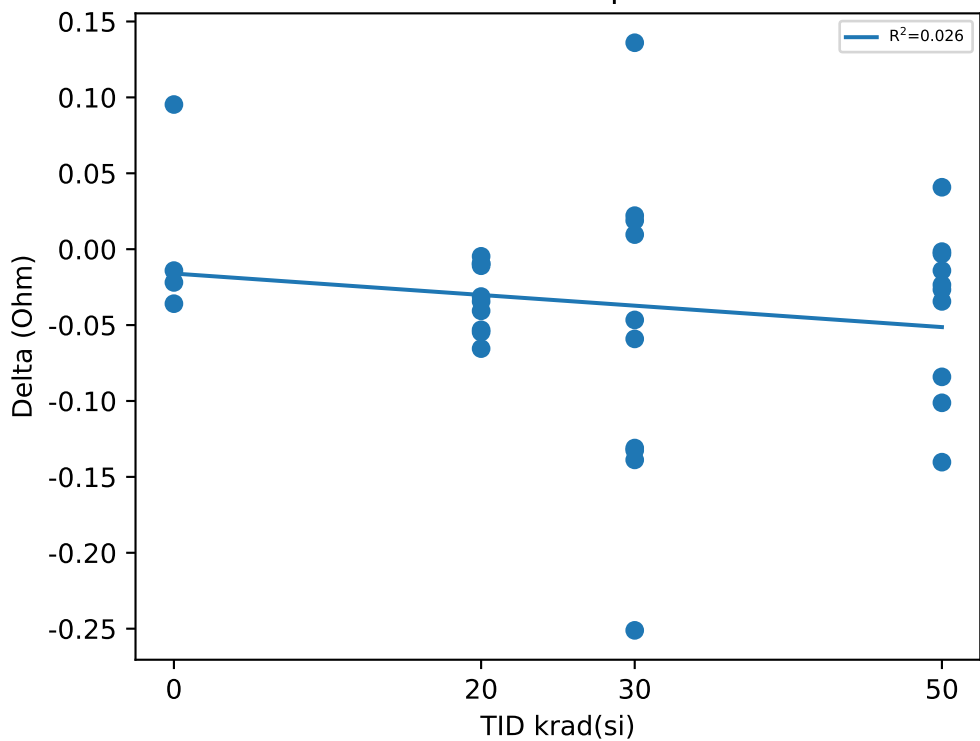
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6.4975 | 6.5643 | 6.6053 | 0.047848 | 6.5272 | 6.5701 | 6.5928 | 0.029335 | -0.0359 | 0.00585 | 0.0953 | 0.060311 |
| 20 | 6.4679 | 6.5623 | 6.7239 | 0.071409 | 6.4429 | 6.5309 | 6.6584 | 0.061486 | -0.0655 | -0.03138 | -0.0047 | 0.022027 |
| 30 | 6.4585 | 6.5679 | 6.6958 | 0.07944 | 6.4212 | 6.5107 | 6.6007 | 0.065565 | -0.2511 | -0.05725 | 0.136 | 0.11023 |
| 50 | 6.4835 | 6.554 | 6.6412 | 0.052205 | 6.4212 | 6.5152 | 6.6068 | 0.065799 | -0.1403 | -0.03881 | 0.0408 | 0.054011 |
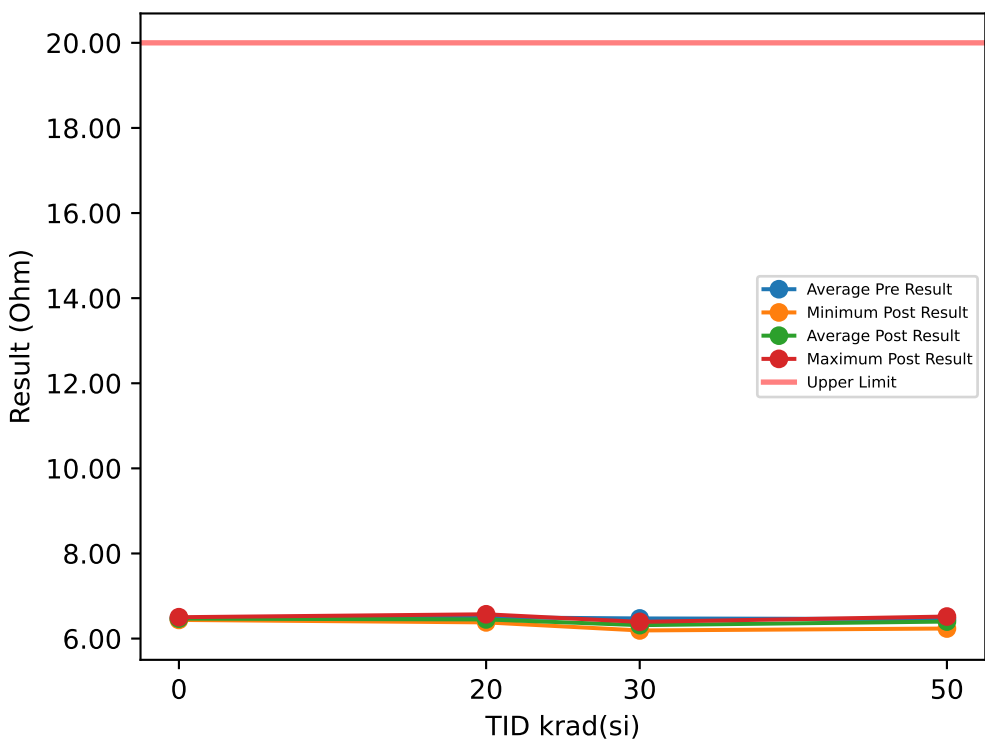
# Device Test: 20.21  EN_RPMOS_HIGH_V(_RESISTANCE|SOURCE/EN3/7/14/0/0/2/@EN_RPMOS_HIGH_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 6.5803 | 6.5038 | -0.0765 |
| 2 | 20 | Bias | 6.585 | 6.4882 | -0.0968 |
| 3 | 20 | Bias | 6.6224 | 6.5709 | -0.0515 |
| 4 | 20 | Bias | 6.4226 | 6.3929 | -0.0297 |
| 5 | 20 | Bias | 6.4882 | 6.4335 | -0.0547 |
| 6 | 20 | Unbiased | 6.4757 | 6.4538 | -0.0219 |
| 7 | 20 | Unbiased | 6.4663 | 6.4444 | -0.0219 |
| 8 | 20 | Unbiased | 6.4148 | 6.3976 | -0.0172 |
| 9 | 20 | Unbiased | 6.4803 | 6.4351 | -0.0452 |
| 10 | 20 | Unbiased | 6.4554 | 6.3804 | -0.075 |
| 11 | 30 | Bias | 6.5693 | 6.3423 | -0.227 |
| 12 | 30 | Bias | 6.5006 | 6.3922 | -0.1084 |
| 13 | 30 | Bias | 6.5069 | 6.3407 | -0.1662 |
| 14 | 30 | Bias | 6.4397 | 6.3142 | -0.1255 |
| 15 | 30 | Bias | 6.5553 | 6.3079 | -0.2474 |
| 16 | 30 | Unbiased | 6.3851 | 6.3875 | 0.0024 |
| 17 | 30 | Unbiased | 6.396 | 6.1908 | -0.2052 |
| 18 | 30 | Unbiased | 6.4569 | 6.2517 | -0.2052 |
| 19 | 30 | Unbiased | 6.5287 | 6.2829 | -0.2458 |
| 20 | 30 | Unbiased | 6.396 | 6.3454 | -0.0506 |
| 21 | 50 | Bias | 6.4397 | 6.272 | -0.1677 |
| 22 | 50 | Bias | 6.4772 | 6.2361 | -0.2411 |
| 23 | 50 | Bias | 6.3913 | 6.3547 | -0.0366 |
| 24 | 50 | Bias | 6.4272 | 6.2736 | -0.1536 |
| 25 | 50 | Bias | 6.3929 | 6.3882 | -0.0047 |
| 26 | 50 | Unbiased | 6.4788 | 6.5178 | 0.039 |
| 27 | 50 | Unbiased | 6.4569 | 6.4757 | 0.0188 |
| 28 | 50 | Unbiased | 6.5038 | 6.496 | -0.0078 |
| 29 | 50 | Unbiased | 6.5522 | 6.5147 | -0.0375 |
| 30 | 50 | Unbiased | 6.4601 | 6.4694 | 0.0093 |
| 31 | 0 | Correlation | 6.5553 | 6.485 | -0.0703 |
| 32 | 0 | Correlation | 6.4382 | 6.4522 | 0.014 |
| 33 | 0 | Correlation | 6.5022 | 6.4382 | -0.064 |
| 34 | 0 | Correlation | 6.3726 | 6.5022 | 0.1296 |

## Test Statistics (Ohm)
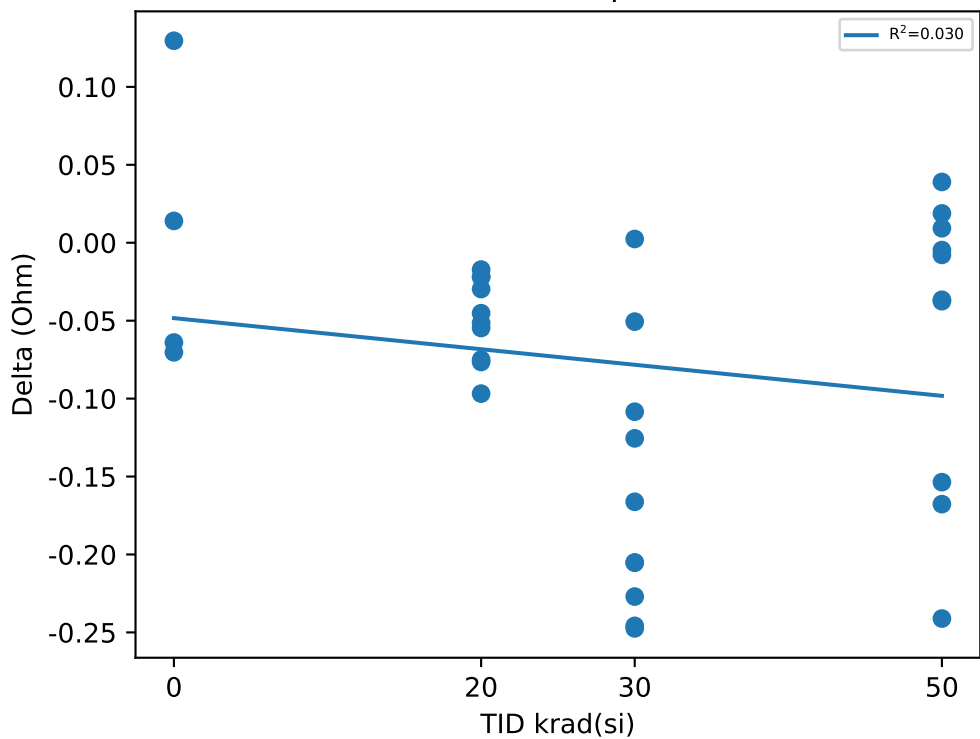
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6.3726 | 6.4671 | 6.5553 | 0.079113 | 6.4382 | 6.4694 | 6.5022 | 0.029374 | -0.0703 | 0.002325 | 0.1296 | 0.09311 |
| 20 | 6.4148 | 6.4991 | 6.6224 | 0.0716 | 6.3804 | 6.4501 | 6.5709 | 0.058081 | -0.0968 | -0.04904 | -0.0172 | 0.027127 |
| 30 | 6.3851 | 6.4734 | 6.5693 | 0.068322 | 6.1908 | 6.3156 | 6.3922 | 0.061515 | -0.2474 | -0.15789 | 0.0024 | 0.085482 |
| 50 | 6.3913 | 6.458 | 6.5522 | 0.049158 | 6.2361 | 6.3998 | 6.5178 | 0.10965 | -0.2411 | -0.05819 | 0.039 | 0.094736 |
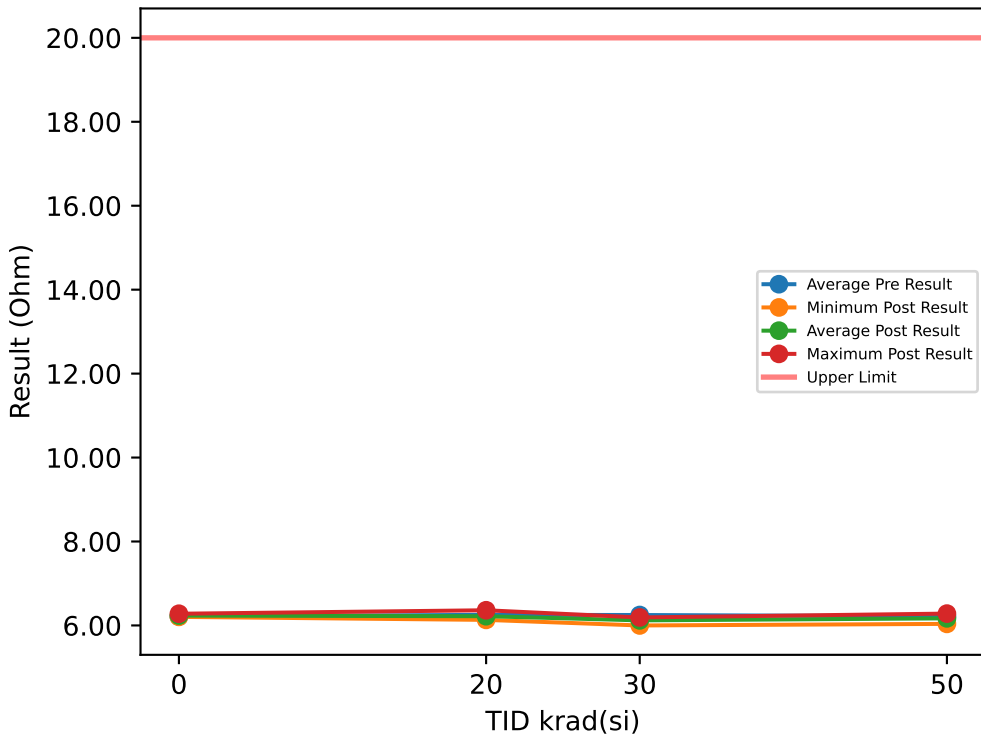
# Device Test: 20.22  EN_RPMOS_HIGH_V(_RESISTANCE|SOURCE/EN4/7/14/0/0/2/@EN_RPMOS_HIGH_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 6.2945 | 6.307 | 0.0125 |
| 2 | 20 | Bias | 6.3117 | 6.2508 | -0.0609 |
| 3 | 20 | Bias | 6.4445 | 6.3617 | -0.0828 |
| 4 | 20 | Bias | 6.1712 | 6.1321 | -0.0391 |
| 5 | 20 | Bias | 6.218 | 6.1634 | -0.0546 |
| 6 | 20 | Unbiased | 6.2461 | 6.179 | -0.0671 |
| 7 | 20 | Unbiased | 6.2102 | 6.2399 | 0.0297 |
| 8 | 20 | Unbiased | 6.2024 | 6.1837 | -0.0187 |
| 9 | 20 | Unbiased | 6.2461 | 6.2118 | -0.0343 |
| 10 | 20 | Unbiased | 6.179 | 6.1665 | -0.0125 |
| 11 | 30 | Bias | 6.3211 | 6.1542 | -0.1669 |
| 12 | 30 | Bias | 6.3101 | 6.1901 | -0.12 |
| 13 | 30 | Bias | 6.2836 | 6.1729 | -0.1107 |
| 14 | 30 | Bias | 6.1977 | 6.1401 | -0.0576 |
| 15 | 30 | Bias | 6.3289 | 6.0964 | -0.2325 |
| 16 | 30 | Unbiased | 6.1712 | 6.1776 | 0.0064 |
| 17 | 30 | Unbiased | 6.1884 | 5.9996 | -0.1888 |
| 18 | 30 | Unbiased | 6.2196 | 6.048 | -0.1716 |
| 19 | 30 | Unbiased | 6.2852 | 6.0714 | -0.2138 |
| 20 | 30 | Unbiased | 6.1805 | 6.1557 | -0.0248 |
| 21 | 50 | Bias | 6.204 | 6.0683 | -0.1357 |
| 22 | 50 | Bias | 6.2508 | 6.0855 | -0.1653 |
| 23 | 50 | Bias | 6.1743 | 6.1401 | -0.0342 |
| 24 | 50 | Bias | 6.1883 | 6.0371 | -0.1512 |
| 25 | 50 | Bias | 6.1712 | 6.1384 | -0.0328 |
| 26 | 50 | Unbiased | 6.2821 | 6.282 | -0.0001 |
| 27 | 50 | Unbiased | 6.2009 | 6.2477 | 0.0468 |
| 28 | 50 | Unbiased | 6.2696 | 6.2492 | -0.0204 |
| 29 | 50 | Unbiased | 6.2461 | 6.2289 | -0.0172 |
| 30 | 50 | Unbiased | 6.1852 | 6.2102 | 0.025 |
| 31 | 0 | Correlation | 6.2336 | 6.2352 | 0.0016 |
| 32 | 0 | Correlation | 6.2071 | 6.2211 | 0.014 |
| 33 | 0 | Correlation | 6.2493 | 6.204 | -0.0453 |
| 34 | 0 | Correlation | 6.1649 | 6.2789 | 0.114 |

## Test Statistics (Ohm)
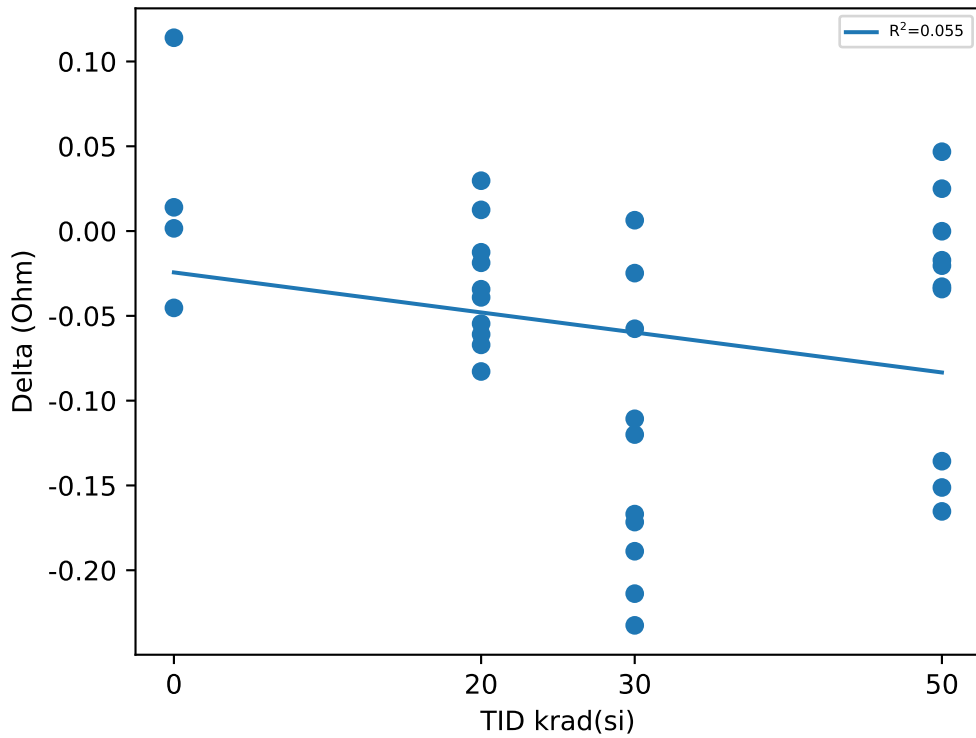
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 6.1649 | 6.2137 | 6.2493 | 0.036916 | 6.204 | 6.2348 | 6.2789 | 0.032048 | -0.0453 | 0.021075 | 0.114 | 0.067008 |
| 20 | 6.1712 | 6.2524 | 6.4445 | 0.081456 | 6.1321 | 6.2196 | 6.3617 | 0.071375 | -0.0828 | -0.03278 | 0.0297 | 0.035828 |
| 30 | 6.1712 | 6.2486 | 6.3289 | 0.063013 | 5.9996 | 6.1206 | 6.1901 | 0.06366 | -0.2325 | -0.12803 | 0.0064 | 0.081258 |
| 50 | 6.1712 | 6.2172 | 6.2821 | 0.041066 | 6.0371 | 6.1687 | 6.282 | 0.086256 | -0.1653 | -0.04851 | 0.0468 | 0.075159 |
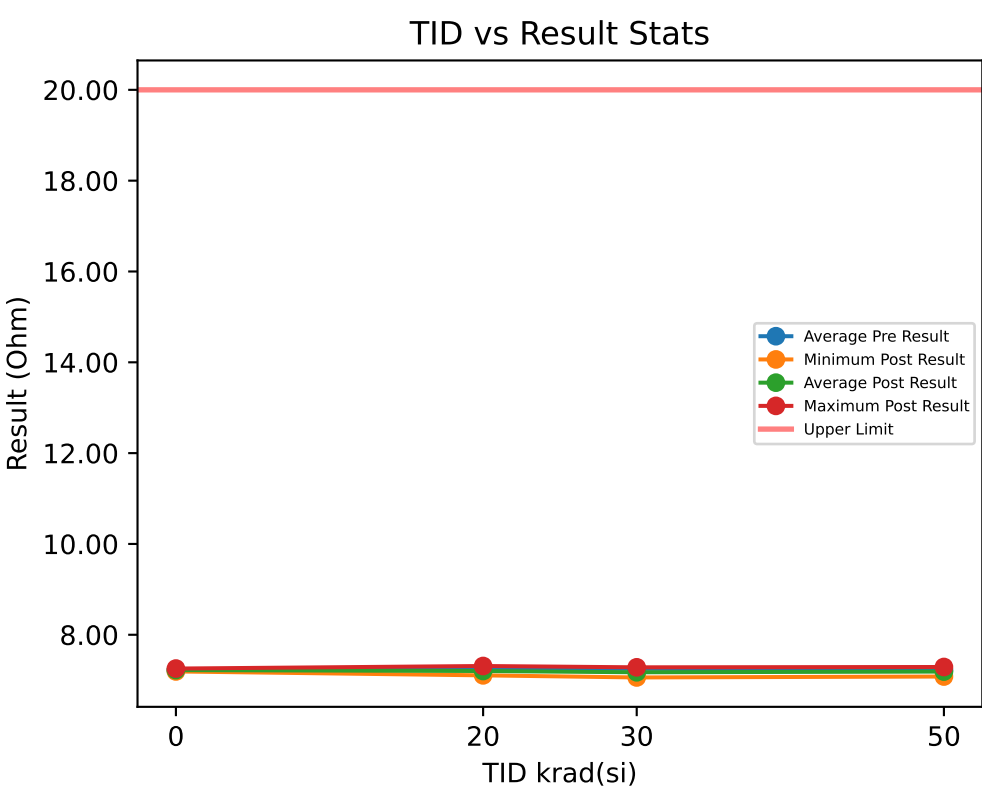
## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 7.3576 | 7.3014 | -0.0562 |
| 2 | 20 | Bias | 7.3217 | 7.3108 | -0.0109 |
| 3 | 20 | Bias | 7.406 | 7.3123 | -0.0937 |
| 4 | 20 | Bias | 7.1764 | 7.1062 | -0.0702 |
| 5 | 20 | Bias | 7.2124 | 7.1655 | -0.0469 |
| 6 | 20 | Unbiased | 7.1952 | 7.1546 | -0.0406 |
| 7 | 20 | Unbiased | 7.2202 | 7.2124 | -0.0078 |
| 8 | 20 | Unbiased | 7.1936 | 7.1514 | -0.0422 |
| 9 | 20 | Unbiased | 7.217 | 7.1624 | -0.0546 |
| 10 | 20 | Unbiased | 7.2108 | 7.1421 | -0.0687 |
| 11 | 30 | Bias | 7.3717 | 7.1615 | -0.2102 |
| 12 | 30 | Bias | 7.3107 | 7.2833 | -0.0274 |
| 13 | 30 | Bias | 7.2561 | 7.2177 | -0.0384 |
| 14 | 30 | Bias | 7.1983 | 7.174 | -0.0243 |
| 15 | 30 | Bias | 7.3451 | 7.0834 | -0.2617 |
| 16 | 30 | Unbiased | 7.1624 | 7.2786 | 0.1162 |
| 17 | 30 | Unbiased | 7.192 | 7.06 | -0.132 |
| 18 | 30 | Unbiased | 7.1842 | 7.0912 | -0.093 |
| 19 | 30 | Unbiased | 7.3076 | 7.11 | -0.1976 |
| 20 | 30 | Unbiased | 7.1827 | 7.2786 | 0.0959 |
| 21 | 50 | Bias | 7.1983 | 7.0803 | -0.118 |
| 22 | 50 | Bias | 7.228 | 7.1615 | -0.0665 |
| 23 | 50 | Bias | 7.1639 | 7.2115 | 0.0476 |
| 24 | 50 | Bias | 7.2545 | 7.099 | -0.1555 |
| 25 | 50 | Bias | 7.1468 | 7.1093 | -0.0375 |
| 26 | 50 | Unbiased | 7.2264 | 7.2655 | 0.0391 |
| 27 | 50 | Unbiased | 7.1936 | 7.2077 | 0.0141 |
| 28 | 50 | Unbiased | 7.2827 | 7.2342 | -0.0485 |
| 29 | 50 | Unbiased | 7.2733 | 7.2904 | 0.0171 |
| 30 | 50 | Unbiased | 7.2374 | 7.2373 | -0.0001 |
| 31 | 0 | Correlation | 7.2514 | 7.2467 | -0.0047 |
| 32 | 0 | Correlation | 7.2139 | 7.1921 | -0.0218 |
| 33 | 0 | Correlation | 7.2342 | 7.1952 | -0.039 |
| 34 | 0 | Correlation | 7.1764 | 7.2561 | 0.0797 |
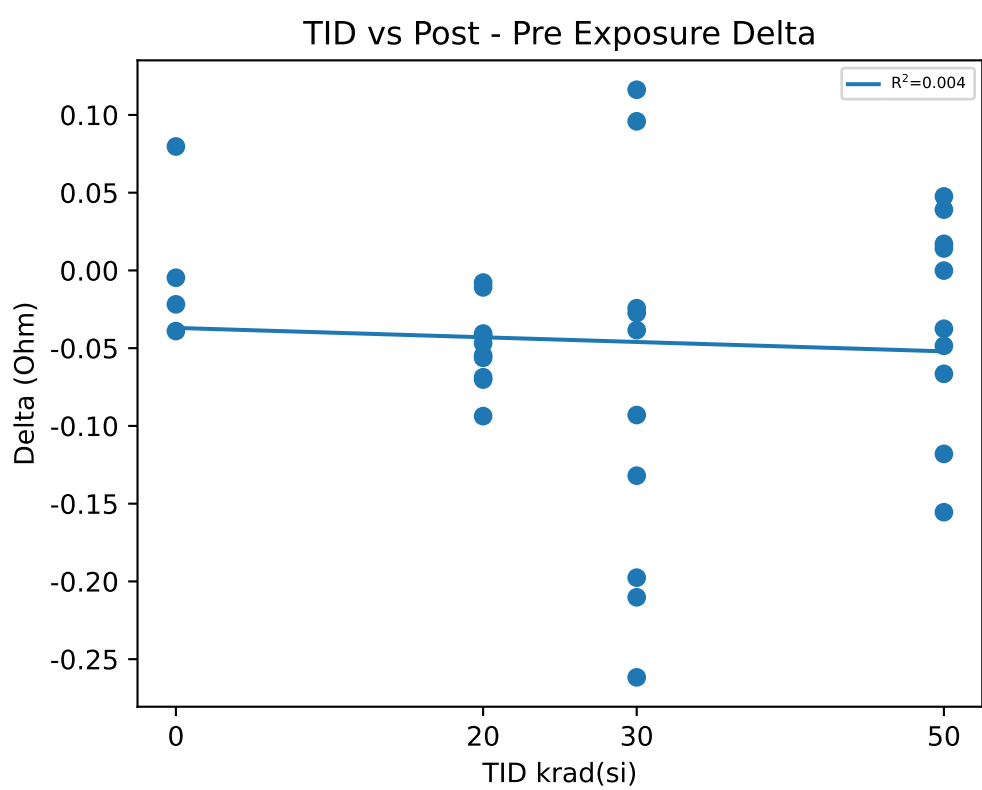
## Test Statistics (Ohm)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 7.1764 | 7.219 | 7.2514 | 0.032257 | 7.1921 | 7.2225 | 7.2561 | 0.033586 | -0.039 | 0.00355 | 0.0797 | 0.052662 |
| 20 | 7.1764 | 7.2511 | 7.406 | 0.07998 | 7.1062 | 7.2019 | 7.3123 | 0.077793 | -0.0937 | -0.04918 | -0.0078 | 0.026223 |
| 30 | 7.1624 | 7.2511 | 7.3717 | 0.077066 | 7.06 | 7.1738 | 7.2833 | 0.086955 | -0.2617 | -0.07725 | 0.1162 | 0.12633 |
| 50 | 7.1468 | 7.2205 | 7.2827 | 0.044772 | 7.0803 | 7.1897 | 7.2904 | 0.073322 | -0.1555 | -0.03082 | 0.0476 | 0.067554 |

## TID vs Result Stats
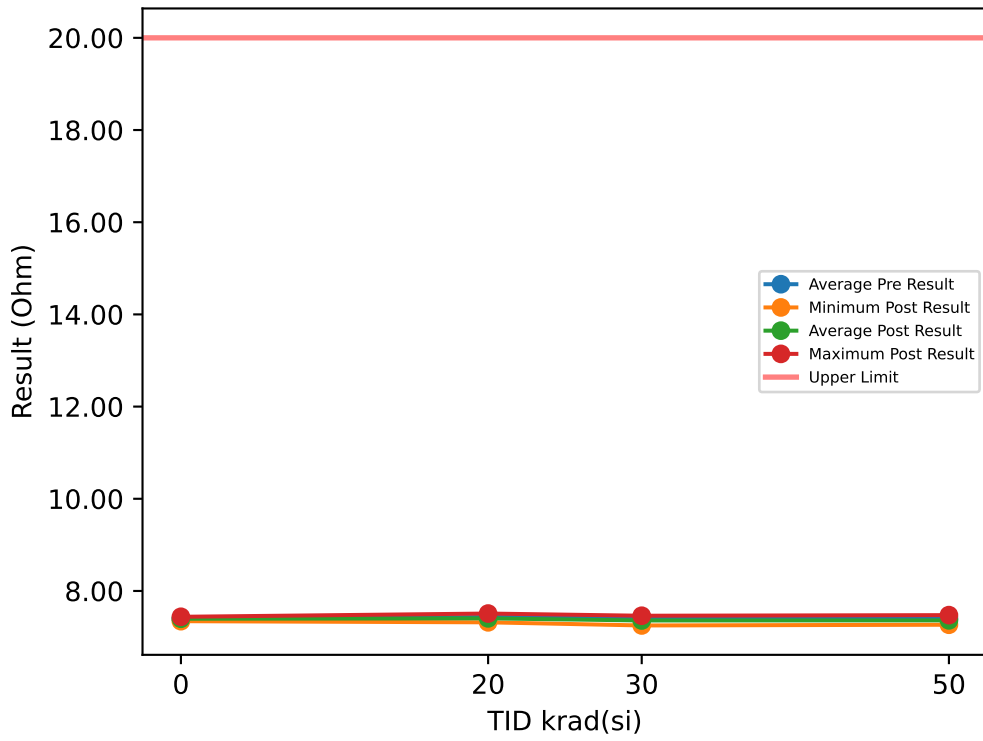


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 20.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 7.5069 | 7.4882 | -0.0187 |
| 2 | 20 | Bias | 7.5257 | 7.4913 | -0.0344 |
| 3 | 20 | Bias | 7.5413 | 7.5101 | -0.0312 |
| 4 | 20 | Bias | 7.3492 | 7.3336 | -0.0156 |
| 5 | 20 | Bias | 7.3648 | 7.3492 | -0.0156 |
| 6 | 20 | Unbiased | 7.4132 | 7.4101 | -0.0031 |
| 7 | 20 | Unbiased | 7.4164 | 7.3804 | -0.036 |
| 8 | 20 | Unbiased | 7.4507 | 7.3914 | -0.0593 |
| 9 | 20 | Unbiased | 7.4023 | 7.3804 | -0.0219 |
| 10 | 20 | Unbiased | 7.3773 | 7.3195 | -0.0578 |
| 11 | 30 | Bias | 7.546 | 7.3766 | -0.1694 |
| 12 | 30 | Bias | 7.4601 | 7.4625 | 0.0024 |
| 13 | 30 | Bias | 7.4616 | 7.4047 | -0.0569 |
| 14 | 30 | Bias | 7.3742 | 7.3782 | 0.004 |
| 15 | 30 | Bias | 7.5413 | 7.2923 | -0.249 |
| 16 | 30 | Unbiased | 7.3305 | 7.4578 | 0.1273 |
| 17 | 30 | Unbiased | 7.3664 | 7.2517 | -0.1147 |
| 18 | 30 | Unbiased | 7.3898 | 7.2689 | -0.1209 |
| 19 | 30 | Unbiased | 7.5272 | 7.283 | -0.2442 |
| 20 | 30 | Unbiased | 7.3242 | 7.4219 | 0.0977 |
| 21 | 50 | Bias | 7.3648 | 7.2752 | -0.0896 |
| 22 | 50 | Bias | 7.4335 | 7.2892 | -0.1443 |
| 23 | 50 | Bias | 7.3601 | 7.3532 | -0.0069 |
| 24 | 50 | Bias | 7.3882 | 7.2673 | -0.1209 |
| 25 | 50 | Bias | 7.3289 | 7.3055 | -0.0234 |
| 26 | 50 | Unbiased | 7.4429 | 7.4523 | 0.0094 |
| 27 | 50 | Unbiased | 7.4117 | 7.4054 | -0.0063 |
| 28 | 50 | Unbiased | 7.4117 | 7.4039 | -0.0078 |
| 29 | 50 | Unbiased | 7.4913 | 7.4757 | -0.0156 |
| 30 | 50 | Unbiased | 7.4132 | 7.3945 | -0.0187 |
| 31 | 0 | Correlation | 7.4491 | 7.4382 | -0.0109 |
| 32 | 0 | Correlation | 7.3773 | 7.3445 | -0.0328 |
| 33 | 0 | Correlation | 7.4117 | 7.3679 | -0.0438 |
| 34 | 0 | Correlation | 7.3305 | 7.4398 | 0.1093 |

## Test Statistics (Ohm)
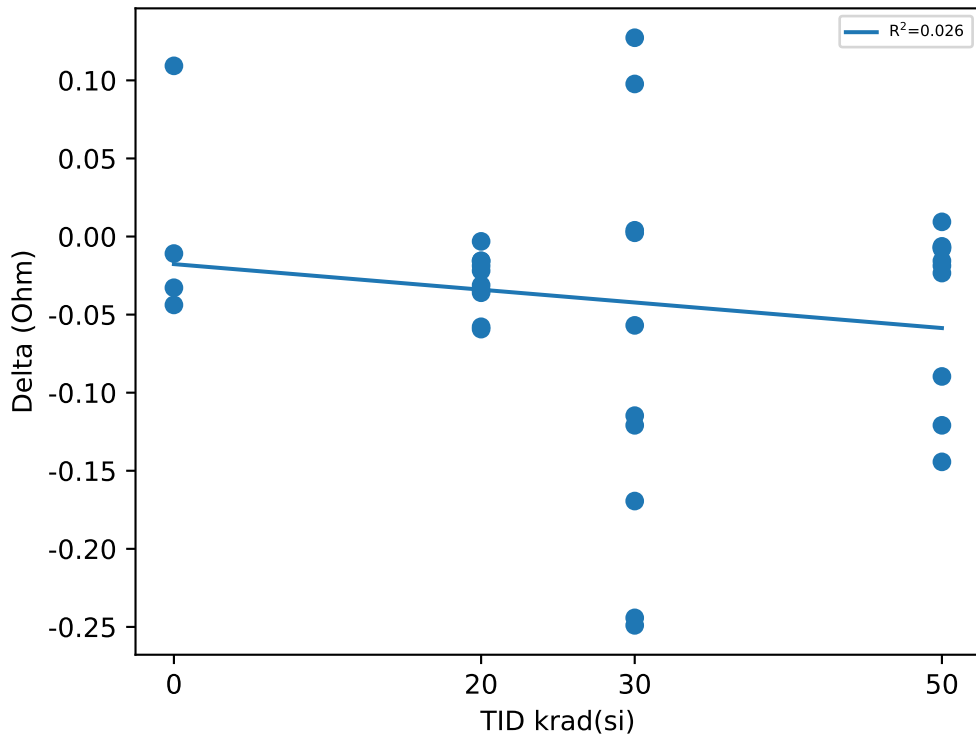
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.3305 | 7.3921 | 7.4491 | 0.050487 | 7.3445 | 7.3976 | 7.4398 | 0.048754 | -0.0438 | 0.00545 | 0.1093 | 0.070571 |
| 20 | 7.3492 | 7.4348 | 7.5413 | 0.068679 | 7.3195 | 7.4054 | 7.5101 | 0.068603 | -0.0593 | -0.02936 | -0.0031 | 0.018305 |
| 30 | 7.3242 | 7.4321 | 7.546 | 0.086294 | 7.2517 | 7.3598 | 7.4625 | 0.079615 | -0.249 | -0.07237 | 0.1273 | 0.13112 |
| 50 | 7.3289 | 7.4046 | 7.4913 | 0.046616 | 7.2673 | 7.3622 | 7.4757 | 0.075165 | -0.1443 | -0.04241 | 0.0094 | 0.054629 |
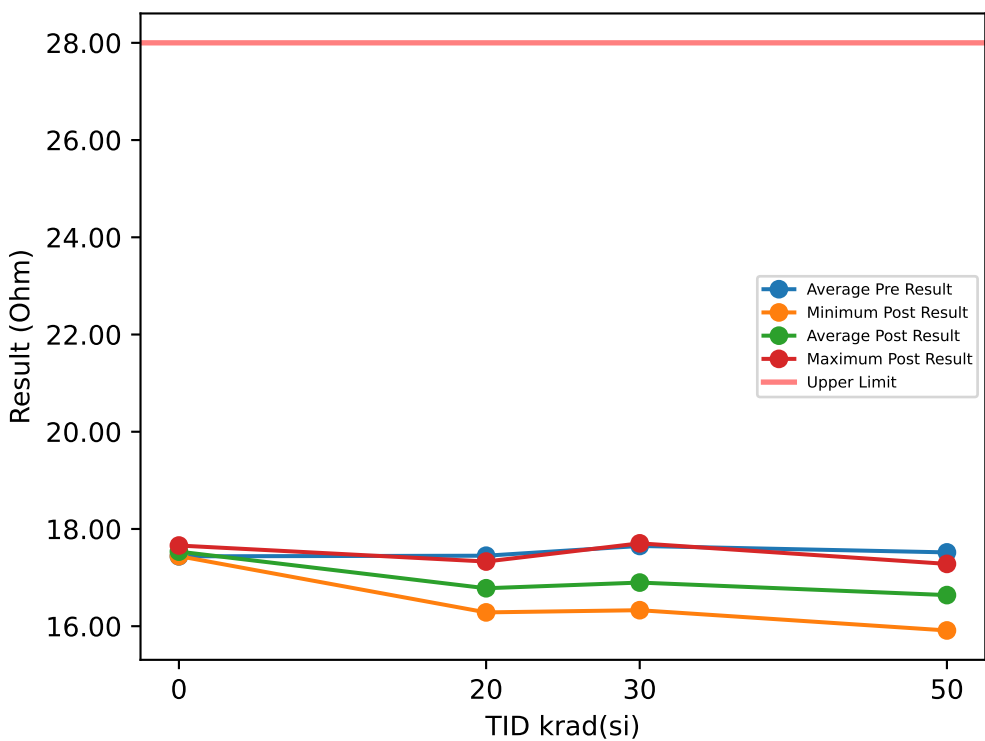
# Device Test: 20.25  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN1/1.6/3/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 17.33 | 16.284 | -1.0461 |
| 2 | 20 | Bias | 17.407 | 16.375 | -1.0321 |
| 3 | 20 | Bias | 17.627 | 16.595 | -1.0321 |
| 4 | 20 | Bias | 17.293 | 16.312 | -0.9806 |
| 5 | 20 | Bias | 17.51 | 16.542 | -0.9681 |
| 6 | 20 | Unbiased | 17.667 | 17.29 | -0.3779 |
| 7 | 20 | Unbiased | 17.563 | 17.244 | -0.3185 |
| 8 | 20 | Unbiased | 16.998 | 16.679 | -0.3186 |
| 9 | 20 | Unbiased | 17.46 | 17.155 | -0.3044 |
| 10 | 20 | Unbiased | 17.647 | 17.33 | -0.317 |
| 11 | 30 | Bias | 17.756 | 16.381 | -1.3758 |
| 12 | 30 | Bias | 17.761 | 16.538 | -1.2228 |
| 13 | 30 | Bias | 17.674 | 16.566 | -1.1073 |
| 14 | 30 | Bias | 17.553 | 16.44 | -1.1135 |
| 15 | 30 | Bias | 18.056 | 16.329 | -1.7271 |
| 16 | 30 | Unbiased | 17.507 | 17.704 | 0.1978 |
| 17 | 30 | Unbiased | 17.407 | 17.155 | -0.2518 |
| 18 | 30 | Unbiased | 17.578 | 17.069 | -0.5094 |
| 19 | 30 | Unbiased | 17.867 | 17.261 | -0.6063 |
| 20 | 30 | Unbiased | 17.346 | 17.531 | 0.1853 |
| 21 | 50 | Bias | 17.556 | 16.086 | -1.4709 |
| 22 | 50 | Bias | 17.524 | 16.245 | -1.279 |
| 23 | 50 | Bias | 17.624 | 16.221 | -1.4023 |
| 24 | 50 | Bias | 17.427 | 16.292 | -1.1353 |
| 25 | 50 | Bias | 17.291 | 15.912 | -1.3787 |
| 26 | 50 | Unbiased | 17.471 | 17.076 | -0.3951 |
| 27 | 50 | Unbiased | 17.36 | 16.941 | -0.4184 |
| 28 | 50 | Unbiased | 17.692 | 17.254 | -0.4388 |
| 29 | 50 | Unbiased | 17.702 | 17.282 | -0.4201 |
| 30 | 50 | Unbiased | 17.536 | 17.09 | -0.4465 |
| 31 | 0 | Correlation | 17.657 | 17.66 | 0.0031 |
| 32 | 0 | Correlation | 17.472 | 17.474 | 0.0016 |
| 33 | 0 | Correlation | 17.427 | 17.441 | 0.0141 |
| 34 | 0 | Correlation | 17.193 | 17.563 | 0.3701 |

## Test Statistics (Ohm)
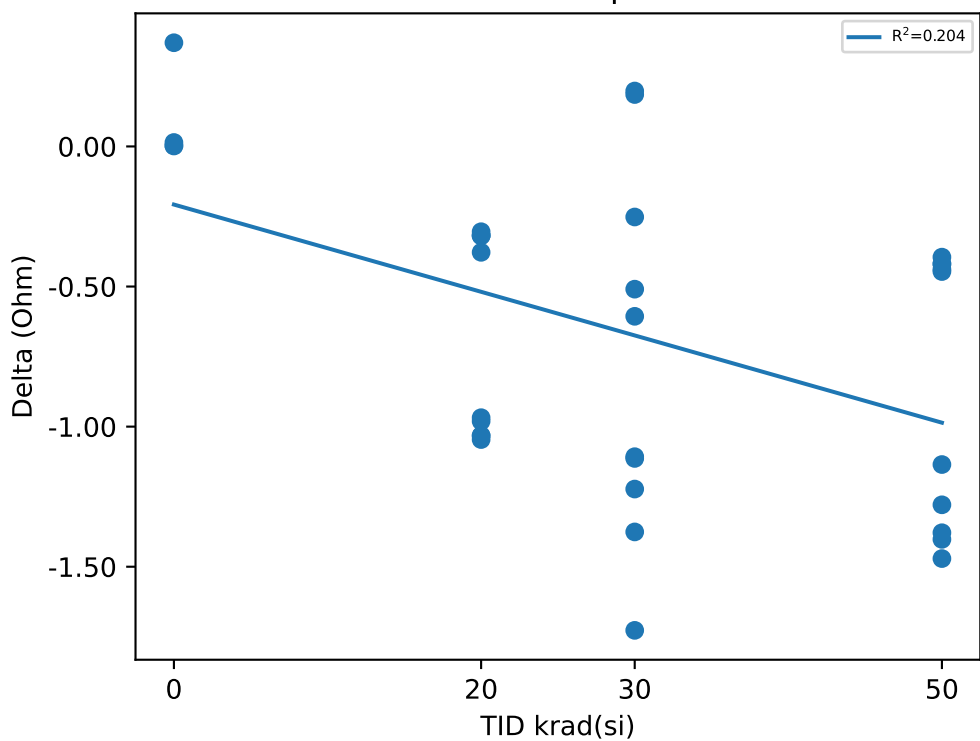
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.193 | 17.437 | 17.657 | 0.19079 | 17.441 | 17.534 | 17.66 | 0.098111 | 0.0016 | 0.097225 | 0.3701 | 0.182 |
| 20 | 16.998 | 17.45 | 17.667 | 0.20532 | 16.284 | 16.781 | 17.33 | 0.42808 | -1.0461 | -0.66954 | -0.3044 | 0.36204 |
| 30 | 17.346 | 17.651 | 18.056 | 0.21684 | 16.329 | 16.897 | 17.704 | 0.50757 | -1.7271 | -0.75309 | 0.1978 | 0.66076 |
| 50 | 17.291 | 17.518 | 17.702 | 0.1351 | 15.912 | 16.64 | 17.282 | 0.5334 | -1.4709 | -0.87851 | -0.3951 | 0.48732 |
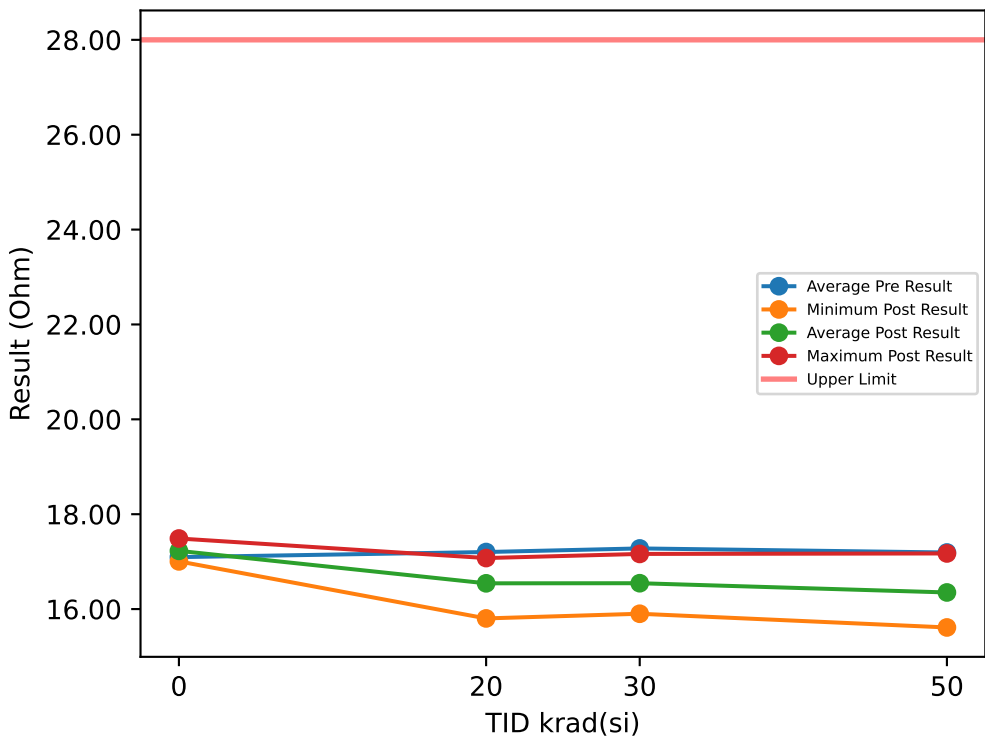
# Device Test: 20.26  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN2/1.6/3/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 17.282 | 16.242 | -1.0399 |
| 2 | 20 | Bias | 17.324 | 16.298 | -1.0259 |
| 3 | 20 | Bias | 17.583 | 16.556 | -1.0275 |
| 4 | 20 | Bias | 16.752 | 15.803 | -0.9494 |
| 5 | 20 | Bias | 17.127 | 16.193 | -0.9338 |
| 6 | 20 | Unbiased | 17.396 | 17.023 | -0.3732 |
| 7 | 20 | Unbiased | 17.352 | 17.016 | -0.3358 |
| 8 | 20 | Unbiased | 17.421 | 17.076 | -0.3451 |
| 9 | 20 | Unbiased | 16.927 | 16.638 | -0.2888 |
| 10 | 20 | Unbiased | 16.862 | 16.585 | -0.2764 |
| 11 | 30 | Bias | 17.53 | 16.282 | -1.2479 |
| 12 | 30 | Bias | 17.722 | 16.299 | -1.4227 |
| 13 | 30 | Bias | 17.578 | 16.513 | -1.0652 |
| 14 | 30 | Bias | 17.063 | 16.349 | -0.7138 |
| 15 | 30 | Bias | 17.492 | 15.901 | -1.5912 |
| 16 | 30 | Unbiased | 16.951 | 17.163 | 0.2118 |
| 17 | 30 | Unbiased | 16.921 | 16.608 | -0.3126 |
| 18 | 30 | Unbiased | 17.047 | 16.63 | -0.4173 |
| 19 | 30 | Unbiased | 17.255 | 16.739 | -0.5157 |
| 20 | 30 | Unbiased | 17.226 | 16.966 | -0.2597 |
| 21 | 50 | Bias | 17.274 | 15.953 | -1.3211 |
| 22 | 50 | Bias | 17.199 | 15.967 | -1.2321 |
| 23 | 50 | Bias | 16.938 | 15.929 | -1.0088 |
| 24 | 50 | Bias | 17.026 | 15.703 | -1.3226 |
| 25 | 50 | Bias | 16.987 | 15.613 | -1.3741 |
| 26 | 50 | Unbiased | 17.258 | 16.832 | -0.4263 |
| 27 | 50 | Unbiased | 17.172 | 16.741 | -0.431 |
| 28 | 50 | Unbiased | 16.996 | 16.556 | -0.4403 |
| 29 | 50 | Unbiased | 17.614 | 17.172 | -0.4419 |
| 30 | 50 | Unbiased | 17.466 | 17.038 | -0.4279 |
| 31 | 0 | Correlation | 16.99 | 17.005 | 0.0156 |
| 32 | 0 | Correlation | 16.977 | 17.01 | 0.0328 |
| 33 | 0 | Correlation | 17.397 | 17.405 | 0.0079 |
| 34 | 0 | Correlation | 17.016 | 17.488 | 0.4716 |

## Test Statistics (Ohm)
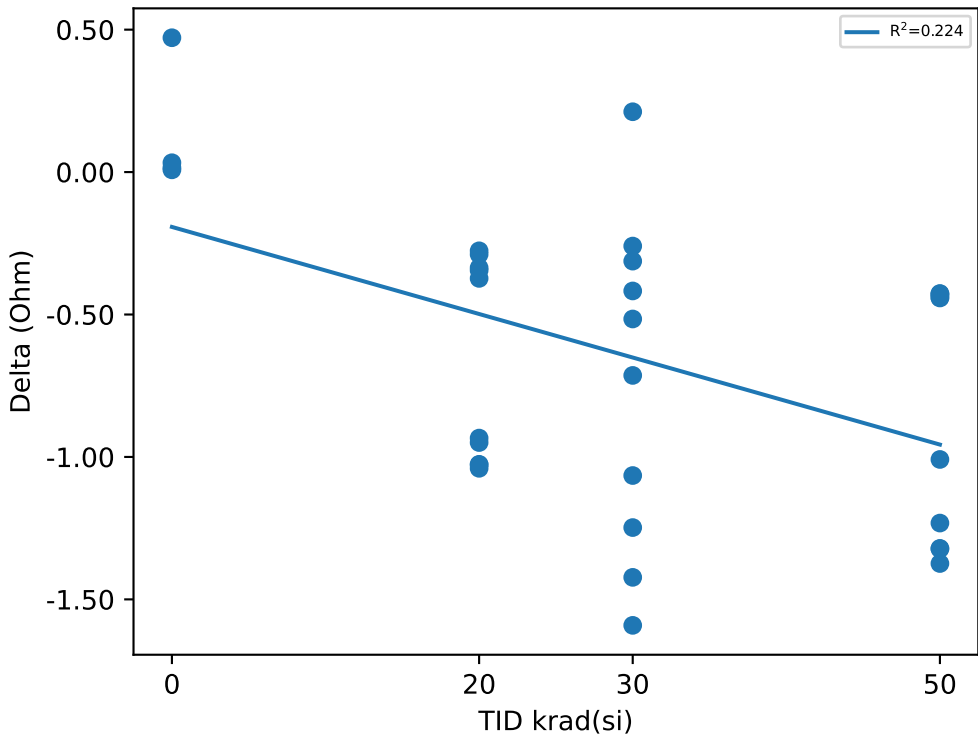
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.977 | 17.095 | 17.397 | 0.20207 | 17.005 | 17.227 | 17.488 | 0.25559 | 0.0079 | 0.13197 | 0.4716 | 0.22666 |
| 20 | 16.752 | 17.203 | 17.583 | 0.27353 | 15.803 | 16.543 | 17.076 | 0.41756 | -1.0399 | -0.65958 | -0.2764 | 0.35644 |
| 30 | 16.921 | 17.279 | 17.722 | 0.28559 | 15.901 | 16.545 | 17.163 | 0.36372 | -1.5912 | -0.73343 | 0.2118 | 0.58007 |
| 50 | 16.938 | 17.193 | 17.614 | 0.22053 | 15.613 | 16.35 | 17.172 | 0.57943 | -1.3741 | -0.84261 | -0.4263 | 0.442 |
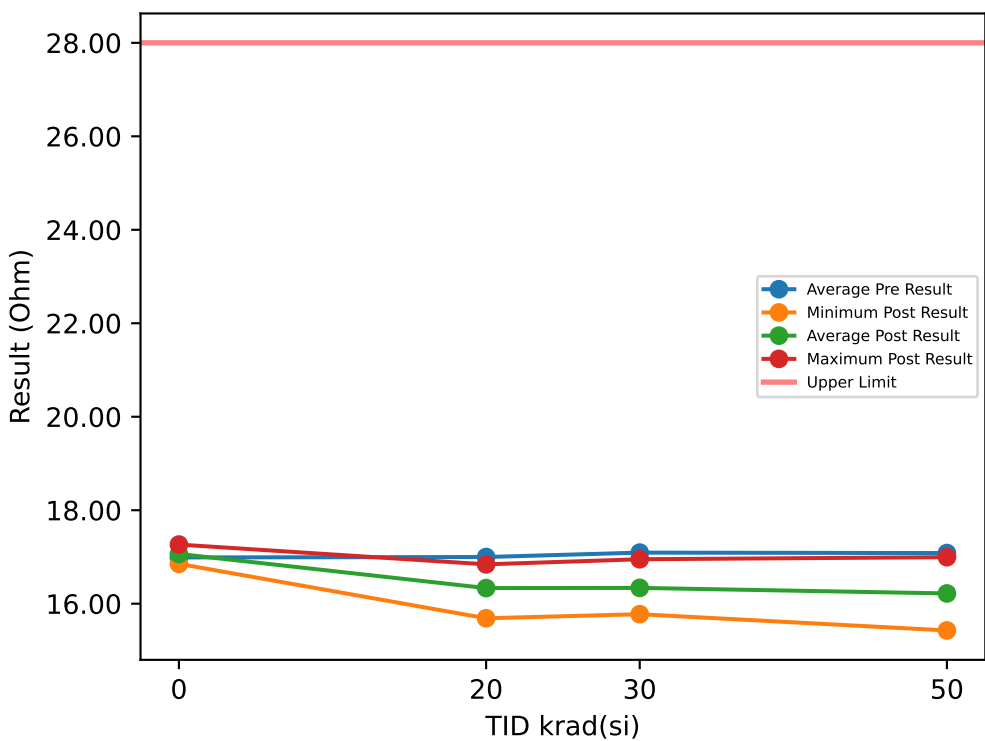
# Device Test: 20.27  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN3/1.6/3/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 17.078 | 16.027 | -1.0508 |
| 2 | 20 | Bias | 17.214 | 16.175 | -1.0383 |
| 3 | 20 | Bias | 17.338 | 16.303 | -1.0352 |
| 4 | 20 | Bias | 16.648 | 15.688 | -0.9602 |
| 5 | 20 | Bias | 16.893 | 15.963 | -0.9305 |
| 6 | 20 | Unbiased | 17.115 | 16.741 | -0.3747 |
| 7 | 20 | Unbiased | 17.043 | 16.73 | -0.3138 |
| 8 | 20 | Unbiased | 17.189 | 16.842 | -0.3466 |
| 9 | 20 | Unbiased | 16.767 | 16.474 | -0.2936 |
| 10 | 20 | Unbiased | 16.698 | 16.402 | -0.2967 |
| 11 | 30 | Bias | 17.389 | 16.064 | -1.3244 |
| 12 | 30 | Bias | 17.477 | 16.153 | -1.3244 |
| 13 | 30 | Bias | 17.299 | 16.261 | -1.0387 |
| 14 | 30 | Bias | 16.97 | 16.092 | -0.8778 |
| 15 | 30 | Bias | 17.304 | 15.775 | -1.529 |
| 16 | 30 | Unbiased | 16.758 | 16.951 | 0.1932 |
| 17 | 30 | Unbiased | 16.739 | 16.412 | -0.3268 |
| 18 | 30 | Unbiased | 16.816 | 16.437 | -0.3783 |
| 19 | 30 | Unbiased | 17.032 | 16.515 | -0.5172 |
| 20 | 30 | Unbiased | 17.143 | 16.72 | -0.4235 |
| 21 | 50 | Bias | 17.184 | 15.82 | -1.3634 |
| 22 | 50 | Bias | 17.128 | 15.867 | -1.2604 |
| 23 | 50 | Bias | 16.767 | 15.811 | -0.956 |
| 24 | 50 | Bias | 17.008 | 15.504 | -1.5039 |
| 25 | 50 | Bias | 16.805 | 15.427 | -1.3771 |
| 26 | 50 | Unbiased | 17.196 | 16.765 | -0.4309 |
| 27 | 50 | Unbiased | 17.182 | 16.737 | -0.445 |
| 28 | 50 | Unbiased | 16.929 | 16.464 | -0.4652 |
| 29 | 50 | Unbiased | 17.432 | 16.995 | -0.4372 |
| 30 | 50 | Unbiased | 17.203 | 16.801 | -0.4013 |
| 31 | 0 | Correlation | 16.845 | 16.853 | 0.0078 |
| 32 | 0 | Correlation | 16.911 | 16.92 | 0.0094 |
| 33 | 0 | Correlation | 17.229 | 17.218 | -0.0109 |
| 34 | 0 | Correlation | 16.973 | 17.265 | 0.2919 |

## Test Statistics (Ohm)
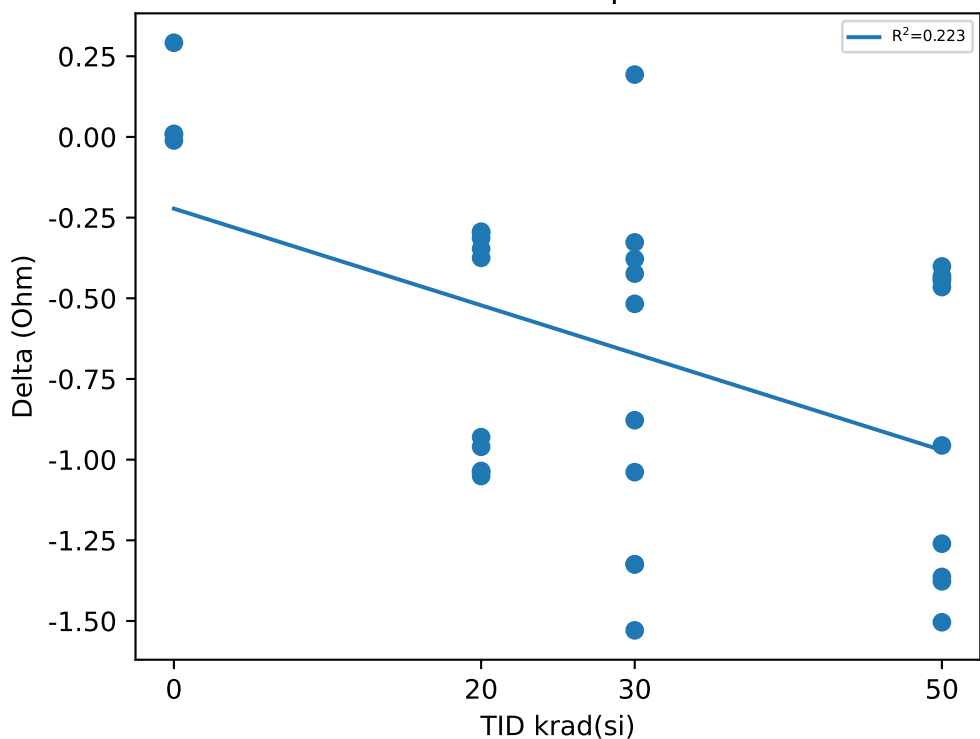
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.845 | 16.99 | 17.229 | 0.16811 | 16.853 | 17.064 | 17.265 | 0.20778 | -0.0109 | 0.07455 | 0.2919 | 0.14519 |
| 20 | 16.648 | 16.998 | 17.338 | 0.23502 | 15.688 | 16.334 | 16.842 | 0.37696 | -1.0508 | -0.66404 | -0.2936 | 0.35985 |
| 30 | 16.739 | 17.093 | 17.477 | 0.27049 | 15.775 | 16.338 | 16.951 | 0.34327 | -1.529 | -0.75469 | 0.1932 | 0.55115 |
| 50 | 16.767 | 17.083 | 17.432 | 0.20489 | 15.427 | 16.219 | 16.995 | 0.59219 | -1.5039 | -0.86404 | -0.4013 | 0.47213 |
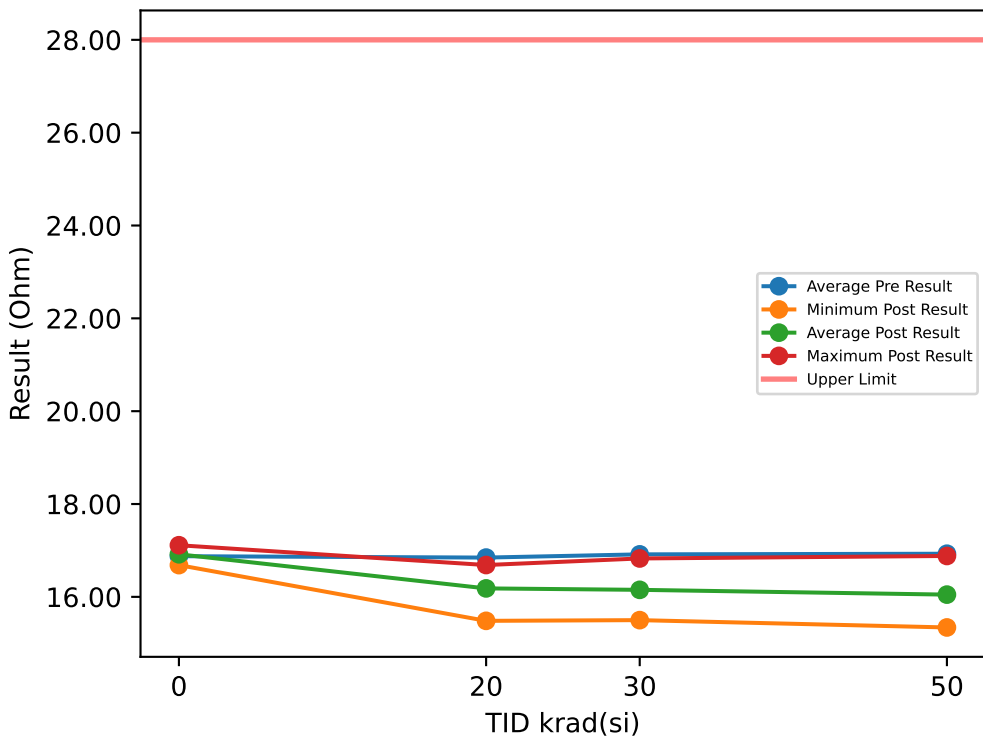
# Device Test: 20.28  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN4/1.6/3/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 20 | Bias | 16.934 | 15.892 | -1.0415 |
| 2 | 20 | Bias | 17.001 | 15.98 | -1.0212 |
| 3 | 20 | Bias | 17.126 | 16.116 | -1.0103 |
| 4 | 20 | Bias | 16.401 | 15.483 | -0.9182 |
| 5 | 20 | Bias | 16.85 | 15.925 | -0.9244 |
| 6 | 20 | Unbiased | 17.098 | 16.686 | -0.4122 |
| 7 | 20 | Unbiased | 16.976 | 16.65 | -0.3264 |
| 8 | 20 | Unbiased | 16.942 | 16.593 | -0.3482 |
| 9 | 20 | Unbiased | 16.572 | 16.264 | -0.3076 |
| 10 | 20 | Unbiased | 16.562 | 16.233 | -0.3295 |
| 11 | 30 | Bias | 17.238 | 15.834 | -1.4043 |
| 12 | 30 | Bias | 17.323 | 15.982 | -1.3404 |
| 13 | 30 | Bias | 17.17 | 16.114 | -1.0561 |
| 14 | 30 | Bias | 16.678 | 15.95 | -0.7283 |
| 15 | 30 | Bias | 17.185 | 15.498 | -1.6868 |
| 16 | 30 | Unbiased | 16.584 | 16.827 | 0.2428 |
| 17 | 30 | Unbiased | 16.487 | 16.248 | -0.2395 |
| 18 | 30 | Unbiased | 16.6 | 16.182 | -0.4176 |
| 19 | 30 | Unbiased | 16.92 | 16.284 | -0.6362 |
| 20 | 30 | Unbiased | 16.97 | 16.593 | -0.3771 |
| 21 | 50 | Bias | 17.043 | 15.634 | -1.4089 |
| 22 | 50 | Bias | 16.943 | 15.712 | -1.2309 |
| 23 | 50 | Bias | 16.628 | 15.595 | -1.0326 |
| 24 | 50 | Bias | 16.89 | 15.341 | -1.5494 |
| 25 | 50 | Bias | 16.809 | 15.399 | -1.41 |
| 26 | 50 | Unbiased | 16.943 | 16.497 | -0.4466 |
| 27 | 50 | Unbiased | 16.912 | 16.465 | -0.4466 |
| 28 | 50 | Unbiased | 16.795 | 16.395 | -0.3998 |
| 29 | 50 | Unbiased | 17.324 | 16.881 | -0.4435 |
| 30 | 50 | Unbiased | 17.003 | 16.564 | -0.4387 |
| 31 | 0 | Correlation | 16.707 | 16.684 | -0.0234 |
| 32 | 0 | Correlation | 16.822 | 16.82 | -0.0016 |
| 33 | 0 | Correlation | 17.106 | 17.112 | 0.0063 |
| 34 | 0 | Correlation | 16.87 | 17.053 | 0.1827 |

## Test Statistics (Ohm)
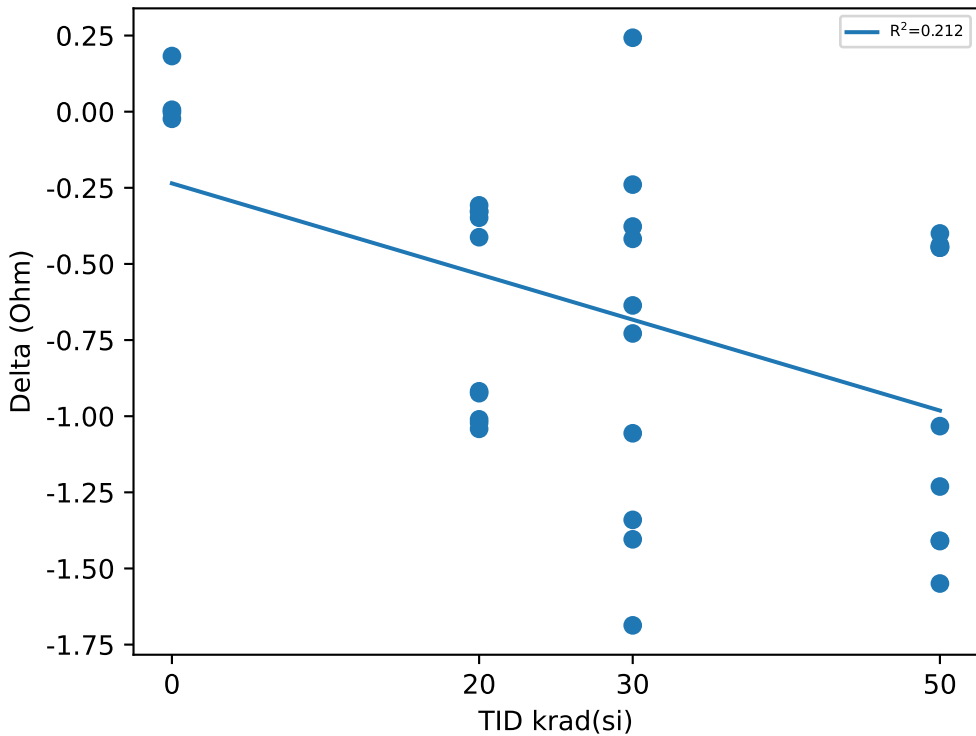
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 16.707 | 16.876 | 17.106 | 0.16749 | 16.684 | 16.917 | 17.112 | 0.20007 | -0.0234 | 0.041 | 0.1827 | 0.095298 |
| 20 | 16.401 | 16.846 | 17.126 | 0.24789 | 15.483 | 16.182 | 16.686 | 0.38505 | -1.0415 | -0.66395 | -0.3076 | 0.33968 |
| 30 | 16.487 | 16.916 | 17.323 | 0.30908 | 15.498 | 16.151 | 16.827 | 0.37663 | -1.6868 | -0.76435 | 0.2428 | 0.6014 |
| 50 | 16.628 | 16.929 | 17.324 | 0.18256 | 15.341 | 16.048 | 16.881 | 0.5643 | -1.5494 | -0.8807 | -0.3998 | 0.48839 |
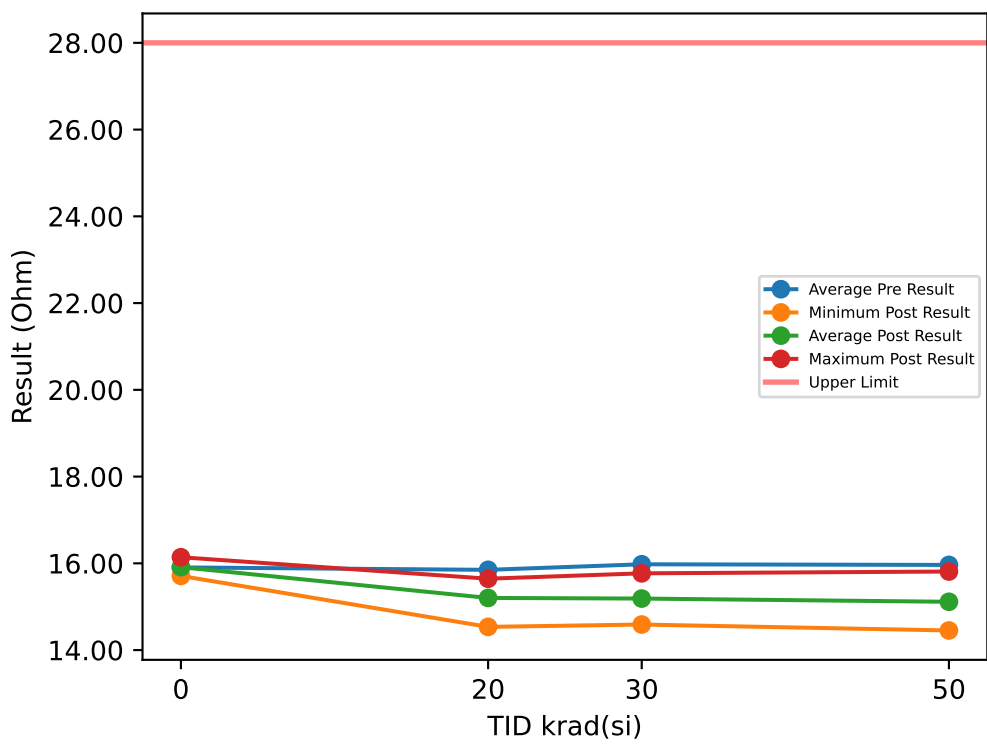
# Device Test: 20.29 PWRGD_RNMOS_LOW_V(_RESISTANCE|SINK/PWRGD/1.6/3/0/0/2/@PWRGD_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.01 | 14.954 | -1.0558 |
| 2 | 20 | Bias | 16.044 | 15.034 | -1.0105 |
| 3 | 20 | Bias | 16.189 | 15.218 | -0.9714 |
| 4 | 20 | Bias | 15.493 | 14.536 | -0.9574 |
| 5 | 20 | Bias | 15.824 | 14.906 | -0.9184 |
| 6 | 20 | Unbiased | 15.988 | 15.646 | -0.342 |
| 7 | 20 | Unbiased | 15.929 | 15.623 | -0.3061 |
| 8 | 20 | Unbiased | 15.924 | 15.577 | -0.3467 |
| 9 | 20 | Unbiased | 15.572 | 15.28 | -0.292 |
| 10 | 20 | Unbiased | 15.529 | 15.252 | -0.2765 |
| 11 | 30 | Bias | 16.16 | 14.827 | -1.333 |
| 12 | 30 | Bias | 16.31 | 14.881 | -1.4284 |
| 13 | 30 | Bias | 16.194 | 15.106 | -1.0879 |
| 14 | 30 | Bias | 15.766 | 14.975 | -0.7912 |
| 15 | 30 | Bias | 16.147 | 14.589 | -1.558 |
| 16 | 30 | Unbiased | 15.615 | 15.77 | 0.1551 |
| 17 | 30 | Unbiased | 15.646 | 15.248 | -0.3976 |
| 18 | 30 | Unbiased | 15.899 | 15.306 | -0.5929 |
| 19 | 30 | Unbiased | 15.899 | 15.585 | -0.3134 |
| 20 | 30 | Unbiased | 16.146 | 15.592 | -0.5539 |
| 21 | 50 | Bias | 16.116 | 14.781 | -1.3346 |
| 22 | 50 | Bias | 16.041 | 14.763 | -1.2783 |
| 23 | 50 | Bias | 15.768 | 14.707 | -1.0612 |
| 24 | 50 | Bias | 15.847 | 14.497 | -1.3502 |
| 25 | 50 | Bias | 15.821 | 14.453 | -1.3681 |
| 26 | 50 | Unbiased | 15.861 | 15.449 | -0.4123 |
| 27 | 50 | Unbiased | 16.002 | 15.579 | -0.4232 |
| 28 | 50 | Unbiased | 15.852 | 15.438 | -0.4139 |
| 29 | 50 | Unbiased | 16.249 | 15.812 | -0.4373 |
| 30 | 50 | Unbiased | 16.08 | 15.66 | -0.4201 |
| 31 | 0 | Correlation | 15.743 | 15.775 | 0.0328 |
| 32 | 0 | Correlation | 15.676 | 15.71 | 0.0344 |
| 33 | 0 | Correlation | 16.1 | 16.141 | 0.0406 |
| 34 | 0 | Correlation | 16.105 | 16.022 | -0.0828 |

## Test Statistics (Ohm)
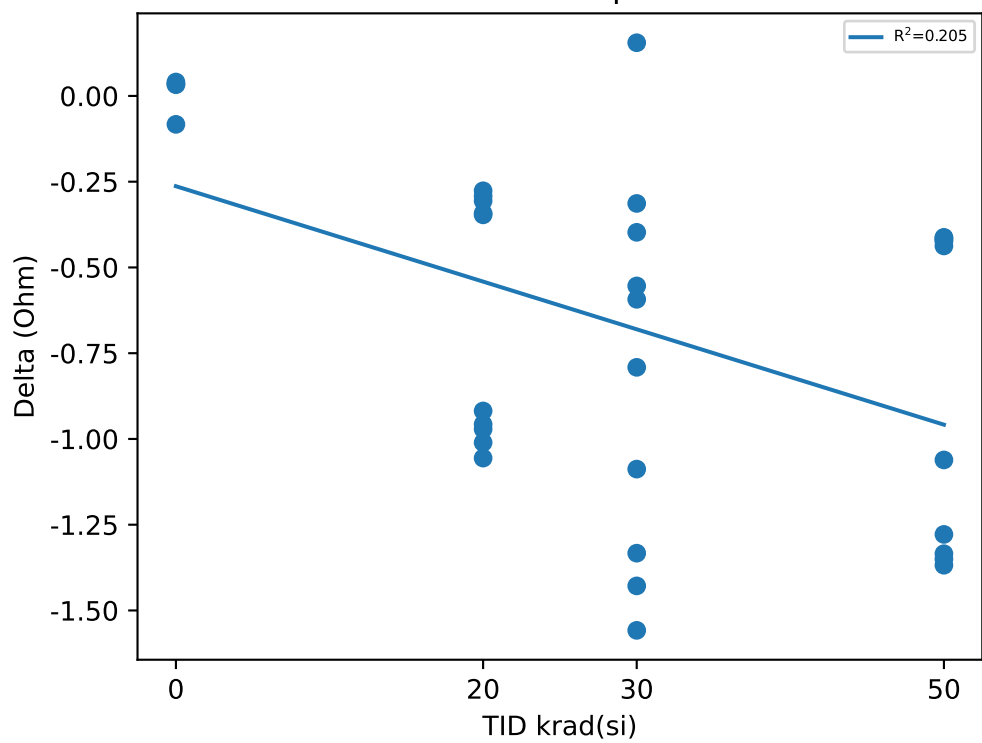
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.676 | 15.906 | 16.105 | 0.2289 | 15.71 | 15.912 | 16.141 | 0.20334 | -0.0828 | 0.00625 | 0.0406 | 0.059462 |
| 20 | 15.493 | 15.85 | 16.189 | 0.23978 | 14.536 | 15.203 | 15.646 | 0.35676 | -1.0558 | -0.64768 | -0.2765 | 0.35547 |
| 30 | 15.615 | 15.978 | 16.31 | 0.24635 | 14.589 | 15.188 | 15.77 | 0.38184 | -1.558 | -0.79012 | 0.1551 | 0.55276 |
| 50 | 15.768 | 15.964 | 16.249 | 0.15661 | 14.453 | 15.114 | 15.812 | 0.52025 | -1.3681 | -0.84992 | -0.4123 | 0.45954 |
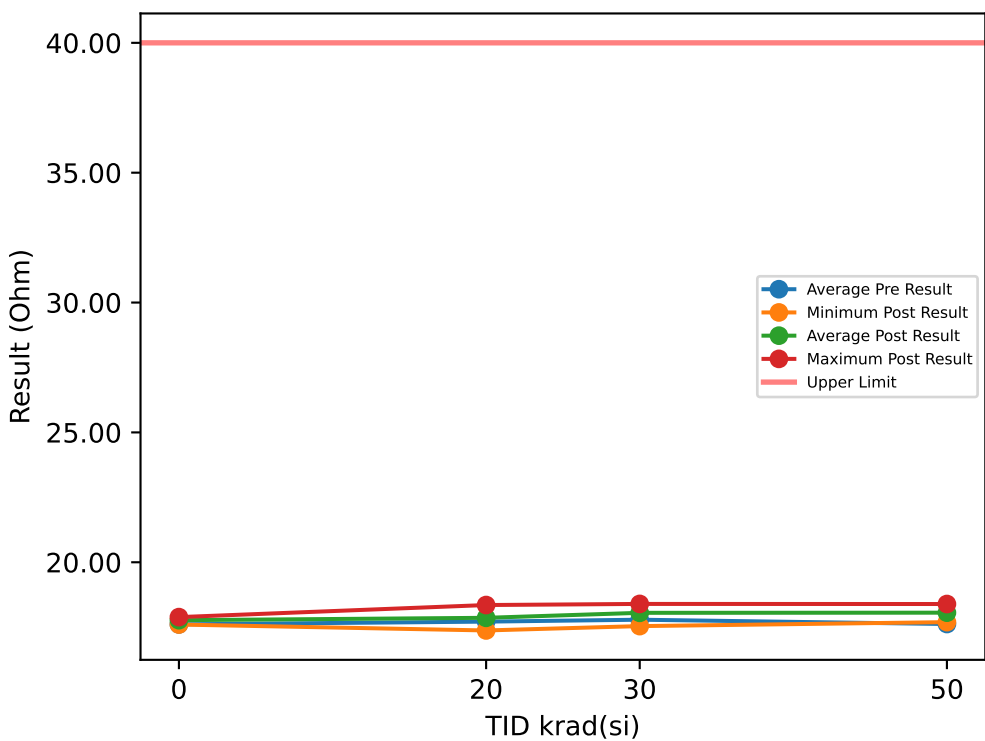
# Device Test: 20.3   EN_RPMOS_LOW_V(_RESISTANCE|SOURCE/EN3/1.6/3/0/0/2/@EN_RPMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 18.044 | 18.191 | 0.1468 |
| 2 | 20 | Bias | 18.01 | 18.157 | 0.1468 |
| 3 | 20 | Bias | 18.188 | 18.353 | 0.1655 |
| 4 | 20 | Bias | 17.332 | 17.47 | 0.1374 |
| 5 | 20 | Bias | 17.688 | 17.83 | 0.142 |
| 6 | 20 | Unbiased | 17.693 | 17.816 | 0.1234 |
| 7 | 20 | Unbiased | 17.668 | 17.818 | 0.1498 |
| 8 | 20 | Unbiased | 17.271 | 17.374 | 0.103 |
| 9 | 20 | Unbiased | 17.693 | 17.851 | 0.1577 |
| 10 | 20 | Unbiased | 17.557 | 17.751 | 0.1936 |
| 11 | 30 | Bias | 18.172 | 18.123 | -0.0495 |
| 12 | 30 | Bias | 17.944 | 18.396 | 0.4517 |
| 13 | 30 | Bias | 17.907 | 18.176 | 0.2691 |
| 14 | 30 | Bias | 17.624 | 18.173 | 0.5486 |
| 15 | 30 | Bias | 18.121 | 17.871 | -0.2493 |
| 16 | 30 | Unbiased | 17.335 | 18.319 | 0.9841 |
| 17 | 30 | Unbiased | 17.513 | 17.542 | 0.0286 |
| 18 | 30 | Unbiased | 17.71 | 17.735 | 0.0255 |
| 19 | 30 | Unbiased | 18.033 | 17.913 | -0.1197 |
| 20 | 30 | Unbiased | 17.521 | 18.282 | 0.7609 |
| 21 | 50 | Bias | 17.627 | 17.899 | 0.2722 |
| 22 | 50 | Bias | 17.691 | 17.946 | 0.255 |
| 23 | 50 | Bias | 17.643 | 18.017 | 0.3736 |
| 24 | 50 | Bias | 17.527 | 17.951 | 0.4237 |
| 25 | 50 | Bias | 17.22 | 17.694 | 0.4746 |
| 26 | 50 | Unbiased | 17.811 | 18.313 | 0.5012 |
| 27 | 50 | Unbiased | 17.465 | 17.955 | 0.4902 |
| 28 | 50 | Unbiased | 17.843 | 18.392 | 0.5496 |
| 29 | 50 | Unbiased | 17.754 | 18.316 | 0.5621 |
| 30 | 50 | Unbiased | 17.643 | 18.105 | 0.4621 |
| 31 | 0 | Correlation | 17.871 | 17.888 | 0.0172 |
| 32 | 0 | Correlation | 17.587 | 17.602 | 0.0156 |
| 33 | 0 | Correlation | 17.666 | 17.704 | 0.0375 |
| 34 | 0 | Correlation | 17.313 | 17.885 | 0.5715 |

## Test Statistics (Ohm)
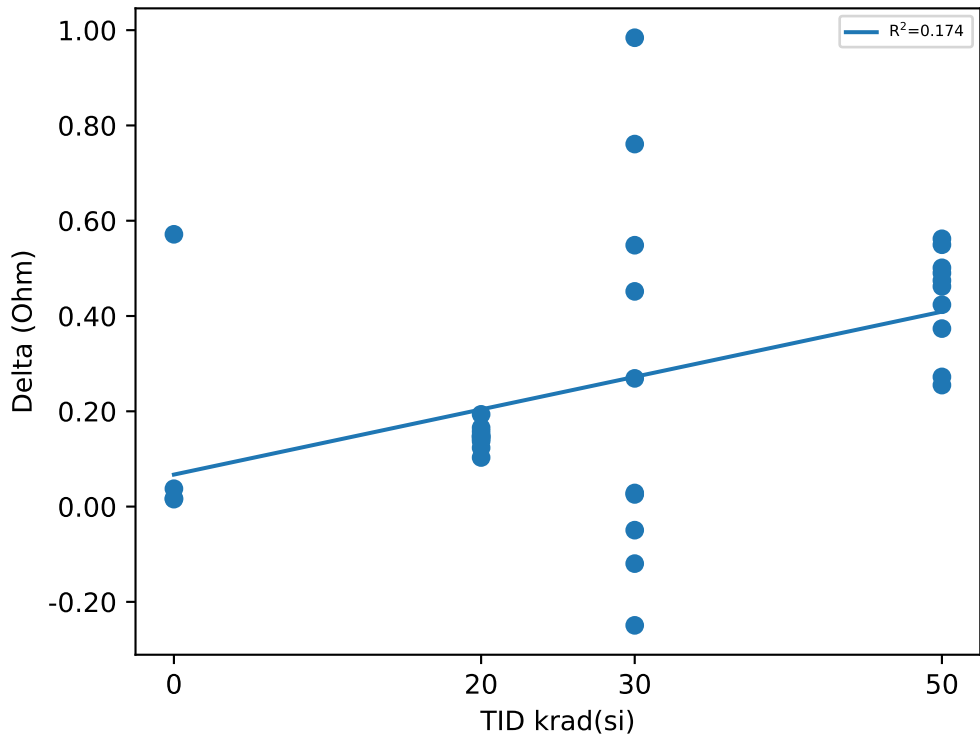
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.313 | 17.609 | 17.871 | 0.23072 | 17.602 | 17.77 | 17.888 | 0.14099 | 0.0156 | 0.16045 | 0.5715 | 0.27421 |
| 20 | 17.271 | 17.714 | 18.188 | 0.29647 | 17.374 | 17.861 | 18.353 | 0.30655 | 0.103 | 0.1466 | 0.1936 | 0.02414 |
| 30 | 17.335 | 17.788 | 18.172 | 0.28702 | 17.542 | 18.053 | 18.396 | 0.27684 | -0.2493 | 0.265 | 0.9841 | 0.40865 |
| 50 | 17.22 | 17.622 | 17.843 | 0.18351 | 17.694 | 18.059 | 18.392 | 0.22082 | 0.255 | 0.43643 | 0.5621 | 0.10635 |

## TID vs Result Stats
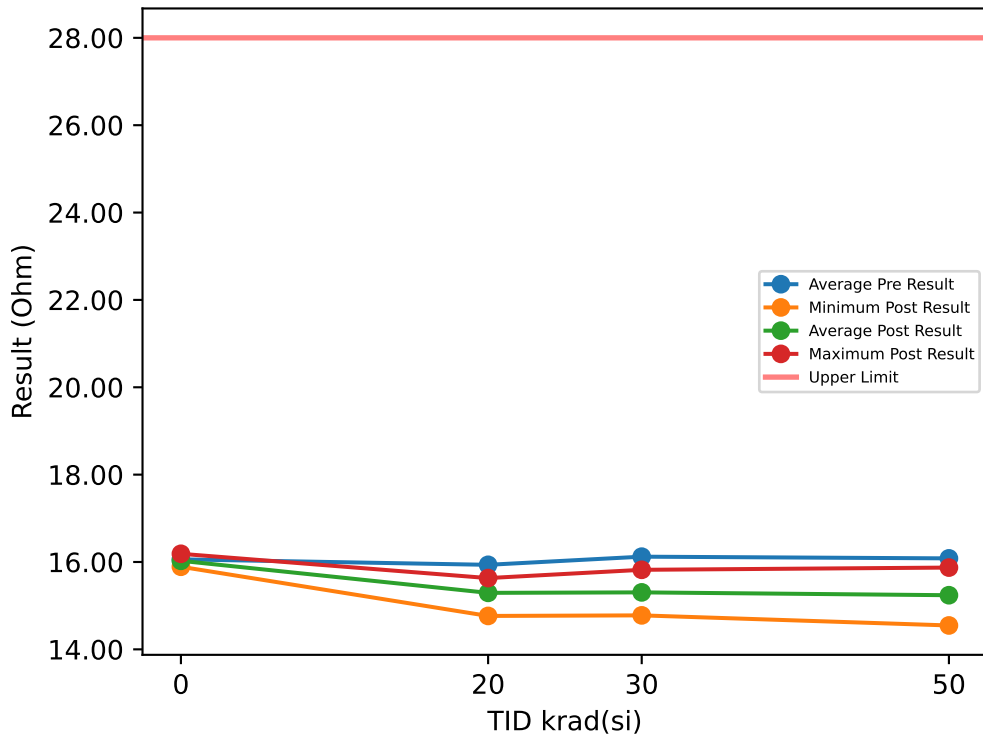


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.061 | 15.015 | -1.0463 |
| 2 | 20 | Bias | 16.12 | 15.093 | -1.0275 |
| 3 | 20 | Bias | 16.348 | 15.4 | -0.9479 |
| 4 | 20 | Bias | 15.71 | 14.765 | -0.9447 |
| 5 | 20 | Bias | 15.785 | 14.912 | -0.8729 |
| 6 | 20 | Unbiased | 16.014 | 15.632 | -0.3826 |
| 7 | 20 | Unbiased | 15.897 | 15.599 | -0.2982 |
| 8 | 20 | Unbiased | 15.906 | 15.586 | -0.3201 |
| 9 | 20 | Unbiased | 15.732 | 15.438 | -0.2936 |
| 10 | 20 | Unbiased | 15.78 | 15.496 | -0.2842 |
| 11 | 30 | Bias | 16.262 | 14.85 | -1.4125 |
| 12 | 30 | Bias | 16.386 | 15.017 | -1.3689 |
| 13 | 30 | Bias | 16.152 | 15.14 | -1.0113 |
| 14 | 30 | Bias | 15.991 | 14.945 | -1.0456 |
| 15 | 30 | Bias | 16.222 | 14.778 | -1.4438 |
| 16 | 30 | Unbiased | 15.878 | 15.821 | -0.0573 |
| 17 | 30 | Unbiased | 15.903 | 15.513 | -0.3899 |
| 18 | 30 | Unbiased | 16.099 | 15.562 | -0.5367 |
| 19 | 30 | Unbiased | 15.997 | 15.762 | -0.2353 |
| 20 | 30 | Unbiased | 16.328 | 15.655 | -0.6725 |
| 21 | 50 | Bias | 16.228 | 14.97 | -1.258 |
| 22 | 50 | Bias | 16.116 | 14.847 | -1.269 |
| 23 | 50 | Bias | 15.817 | 14.755 | -1.0628 |
| 24 | 50 | Bias | 16.013 | 14.547 | -1.4656 |
| 25 | 50 | Bias | 16.014 | 14.631 | -1.3836 |
| 26 | 50 | Unbiased | 16.266 | 15.856 | -0.4092 |
| 27 | 50 | Unbiased | 16.131 | 15.733 | -0.3982 |
| 28 | 50 | Unbiased | 15.827 | 15.449 | -0.3779 |
| 29 | 50 | Unbiased | 16.28 | 15.872 | -0.4076 |
| 30 | 50 | Unbiased | 16.137 | 15.733 | -0.4044 |
| 31 | 0 | Correlation | 15.855 | 15.891 | 0.0359 |
| 32 | 0 | Correlation | 15.93 | 15.953 | 0.0235 |
| 33 | 0 | Correlation | 16.156 | 16.188 | 0.0312 |
| 34 | 0 | Correlation | 16.302 | 16.075 | -0.2264 |

## Test Statistics (Ohm)
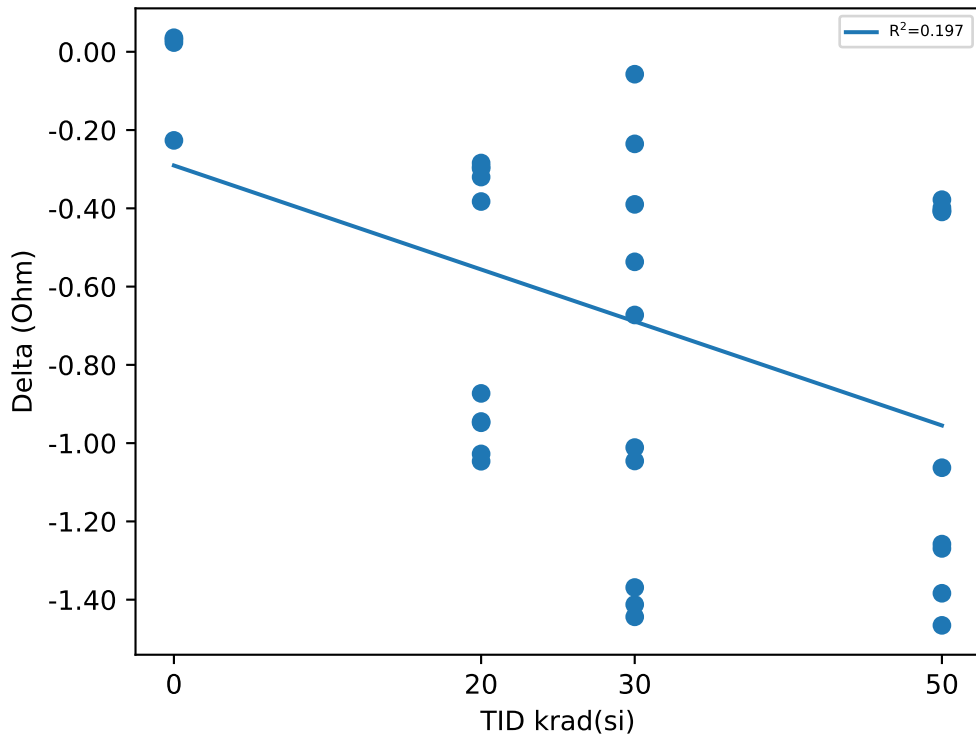
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.855 | 16.061 | 16.302 | 0.20544 | 15.891 | 16.027 | 16.188 | 0.13173 | -0.2264 | -0.03395 | 0.0359 | 0.1284 |
| 20 | 15.71 | 15.935 | 16.348 | 0.20234 | 14.765 | 15.293 | 15.632 | 0.31791 | -1.0463 | -0.6418 | -0.2842 | 0.34787 |
| 30 | 15.878 | 16.122 | 16.386 | 0.17739 | 14.778 | 15.304 | 15.821 | 0.39883 | -1.4438 | -0.81738 | -0.0573 | 0.50985 |
| 50 | 15.817 | 16.083 | 16.28 | 0.16509 | 14.547 | 15.239 | 15.872 | 0.53997 | -1.4656 | -0.84363 | -0.3779 | 0.47914 |
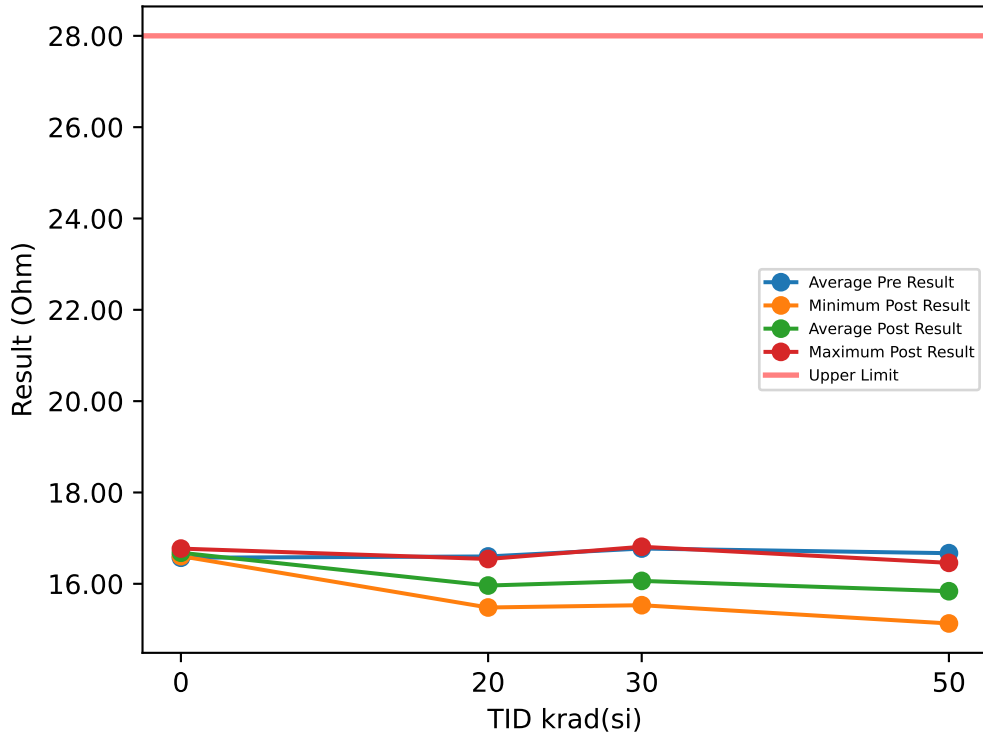
# Device Test: 20.31  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN1/1.6/14/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.5 | 15.481 | -1.0181 |
| 2 | 20 | Bias | 16.556 | 15.567 | -0.9884 |
| 3 | 20 | Bias | 16.737 | 15.753 | -0.9837 |
| 4 | 20 | Bias | 16.457 | 15.511 | -0.9462 |
| 5 | 20 | Bias | 16.654 | 15.73 | -0.9244 |
| 6 | 20 | Unbiased | 16.784 | 16.424 | -0.3592 |
| 7 | 20 | Unbiased | 16.727 | 16.446 | -0.281 |
| 8 | 20 | Unbiased | 16.156 | 15.859 | -0.2967 |
| 9 | 20 | Unbiased | 16.587 | 16.306 | -0.281 |
| 10 | 20 | Unbiased | 16.834 | 16.543 | -0.2904 |
| 11 | 30 | Bias | 16.865 | 15.538 | -1.3272 |
| 12 | 30 | Bias | 16.877 | 15.677 | -1.2007 |
| 13 | 30 | Bias | 16.77 | 15.736 | -1.0337 |
| 14 | 30 | Bias | 16.723 | 15.609 | -1.1134 |
| 15 | 30 | Bias | 17.118 | 15.531 | -1.5864 |
| 16 | 30 | Unbiased | 16.696 | 16.811 | 0.1153 |
| 17 | 30 | Unbiased | 16.495 | 16.374 | -0.1204 |
| 18 | 30 | Unbiased | 16.693 | 16.237 | -0.4561 |
| 19 | 30 | Unbiased | 17.001 | 16.41 | -0.5904 |
| 20 | 30 | Unbiased | 16.485 | 16.712 | 0.2261 |
| 21 | 50 | Bias | 16.635 | 15.266 | -1.3693 |
| 22 | 50 | Bias | 16.674 | 15.382 | -1.2929 |
| 23 | 50 | Bias | 16.748 | 15.433 | -1.3147 |
| 24 | 50 | Bias | 16.592 | 15.5 | -1.0914 |
| 25 | 50 | Bias | 16.496 | 15.132 | -1.3647 |
| 26 | 50 | Unbiased | 16.624 | 16.261 | -0.3638 |
| 27 | 50 | Unbiased | 16.551 | 16.186 | -0.3654 |
| 28 | 50 | Unbiased | 16.846 | 16.459 | -0.3872 |
| 29 | 50 | Unbiased | 16.835 | 16.448 | -0.3873 |
| 30 | 50 | Unbiased | 16.706 | 16.309 | -0.3966 |
| 31 | 0 | Correlation | 16.754 | 16.771 | 0.0172 |
| 32 | 0 | Correlation | 16.617 | 16.635 | 0.0187 |
| 33 | 0 | Correlation | 16.59 | 16.606 | 0.0156 |
| 34 | 0 | Correlation | 16.323 | 16.71 | 0.3873 |

## Test Statistics (Ohm)
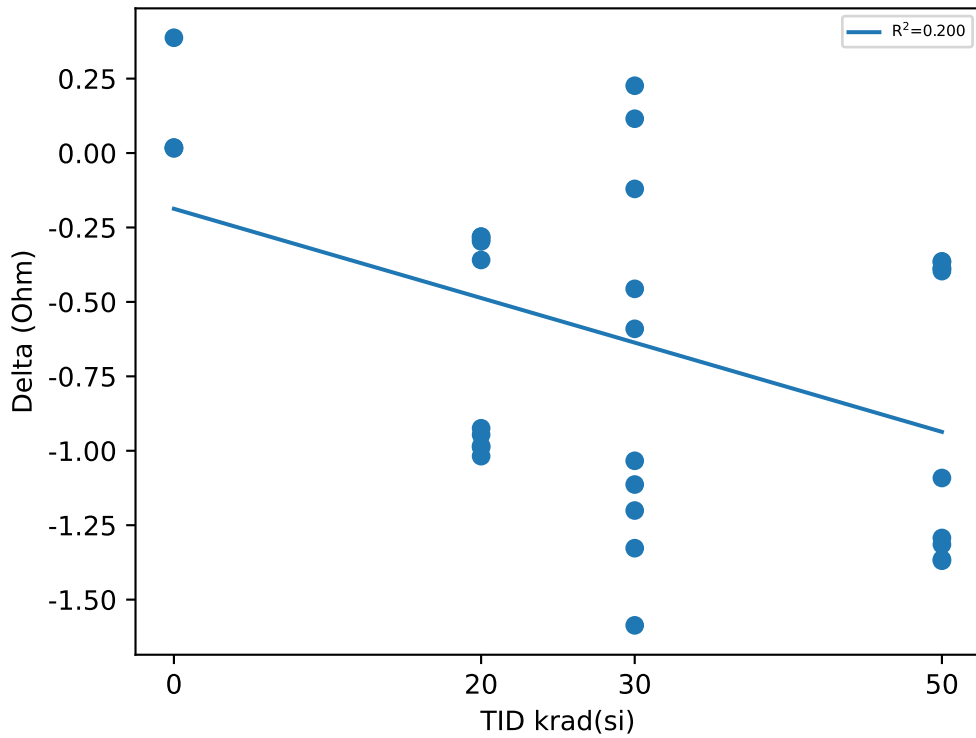
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.323 | 16.571 | 16.754 | 0.18022 | 16.606 | 16.681 | 16.771 | 0.074761 | 0.0156 | 0.1097 | 0.3873 | 0.18507 |
| 20 | 16.156 | 16.599 | 16.834 | 0.19886 | 15.481 | 15.962 | 16.543 | 0.42201 | -1.0181 | -0.63691 | -0.281 | 0.35492 |
| 30 | 16.485 | 16.772 | 17.118 | 0.20137 | 15.531 | 16.064 | 16.811 | 0.49993 | -1.5864 | -0.70869 | 0.2261 | 0.63606 |
| 50 | 16.496 | 16.671 | 16.846 | 0.11516 | 15.132 | 15.837 | 16.459 | 0.53659 | -1.3693 | -0.83333 | -0.3638 | 0.48388 |
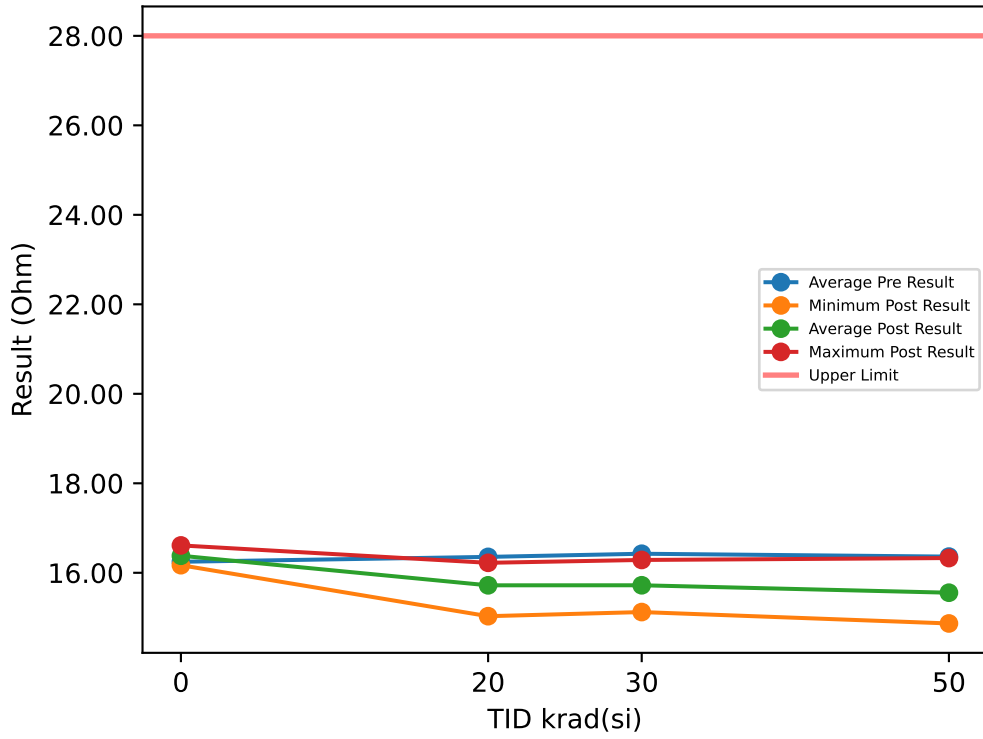
# Device Test: 20.32  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN2/1.6/14/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.467 | 15.424 | -1.0431 |
| 2 | 20 | Bias | 16.474 | 15.48 | -0.9946 |
| 3 | 20 | Bias | 16.679 | 15.692 | -0.9869 |
| 4 | 20 | Bias | 15.962 | 15.03 | -0.9322 |
| 5 | 20 | Bias | 16.267 | 15.363 | -0.9041 |
| 6 | 20 | Unbiased | 16.506 | 16.153 | -0.3529 |
| 7 | 20 | Unbiased | 16.493 | 16.223 | -0.2702 |
| 8 | 20 | Unbiased | 16.523 | 16.207 | -0.3154 |
| 9 | 20 | Unbiased | 16.087 | 15.811 | -0.2764 |
| 10 | 20 | Unbiased | 16.096 | 15.819 | -0.2779 |
| 11 | 30 | Bias | 16.624 | 15.455 | -1.1694 |
| 12 | 30 | Bias | 16.807 | 15.442 | -1.3646 |
| 13 | 30 | Bias | 16.698 | 15.636 | -1.0618 |
| 14 | 30 | Bias | 16.268 | 15.502 | -0.7666 |
| 15 | 30 | Bias | 16.607 | 15.122 | -1.4847 |
| 16 | 30 | Unbiased | 16.162 | 16.287 | 0.1247 |
| 17 | 30 | Unbiased | 16.078 | 15.865 | -0.2124 |
| 18 | 30 | Unbiased | 16.198 | 15.798 | -0.3997 |
| 19 | 30 | Unbiased | 16.429 | 15.926 | -0.5028 |
| 20 | 30 | Unbiased | 16.385 | 16.176 | -0.2094 |
| 21 | 50 | Bias | 16.371 | 15.124 | -1.2475 |
| 22 | 50 | Bias | 16.379 | 15.105 | -1.274 |
| 23 | 50 | Bias | 16.128 | 15.129 | -0.9992 |
| 24 | 50 | Bias | 16.195 | 14.932 | -1.2629 |
| 25 | 50 | Bias | 16.197 | 14.868 | -1.3288 |
| 26 | 50 | Unbiased | 16.407 | 16.017 | -0.3904 |
| 27 | 50 | Unbiased | 16.385 | 15.989 | -0.3966 |
| 28 | 50 | Unbiased | 16.193 | 15.808 | -0.3856 |
| 29 | 50 | Unbiased | 16.716 | 16.329 | -0.3872 |
| 30 | 50 | Unbiased | 16.646 | 16.25 | -0.3966 |
| 31 | 0 | Correlation | 16.161 | 16.17 | 0.0093 |
| 32 | 0 | Correlation | 16.139 | 16.182 | 0.0437 |
| 33 | 0 | Correlation | 16.54 | 16.56 | 0.0203 |
| 34 | 0 | Correlation | 16.146 | 16.612 | 0.4653 |

## Test Statistics (Ohm)
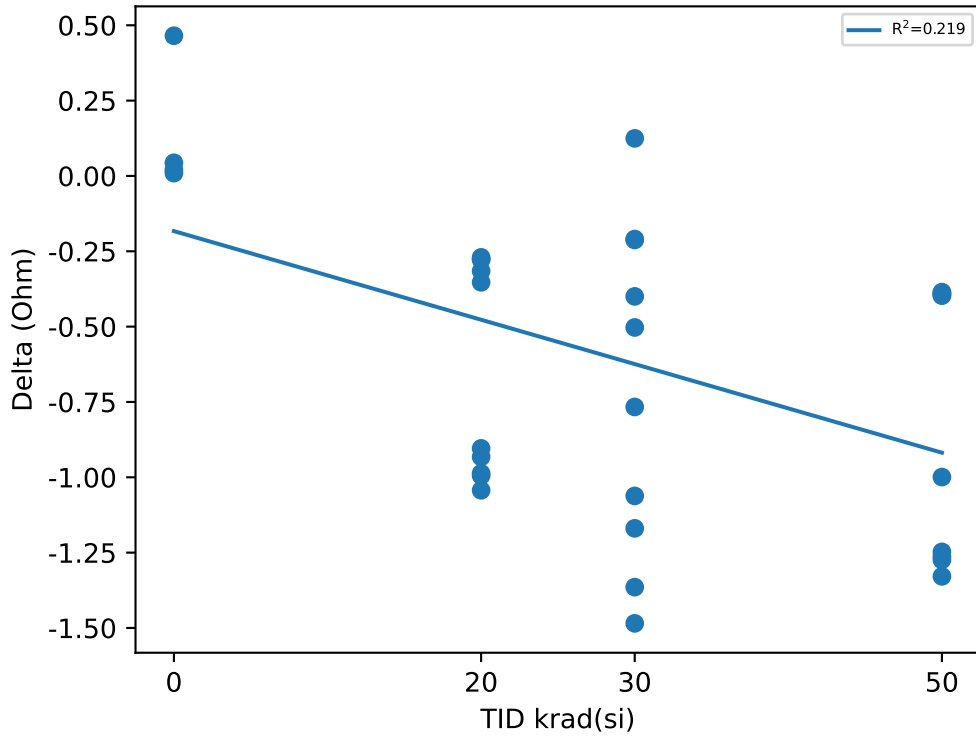
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.139 | 16.246 | 16.54 | 0.19591 | 16.17 | 16.381 | 16.612 | 0.23764 | 0.0093 | 0.13465 | 0.4653 | 0.2209 |
| 20 | 15.962 | 16.355 | 16.679 | 0.23623 | 15.03 | 15.72 | 16.223 | 0.40083 | -1.0431 | -0.63537 | -0.2702 | 0.35767 |
| 30 | 16.078 | 16.426 | 16.807 | 0.24955 | 15.122 | 15.721 | 16.287 | 0.35873 | -1.4847 | -0.70467 | 0.1247 | 0.54778 |
| 50 | 16.128 | 16.362 | 16.716 | 0.19663 | 14.868 | 15.555 | 16.329 | 0.5752 | -1.3288 | -0.80688 | -0.3856 | 0.44639 |
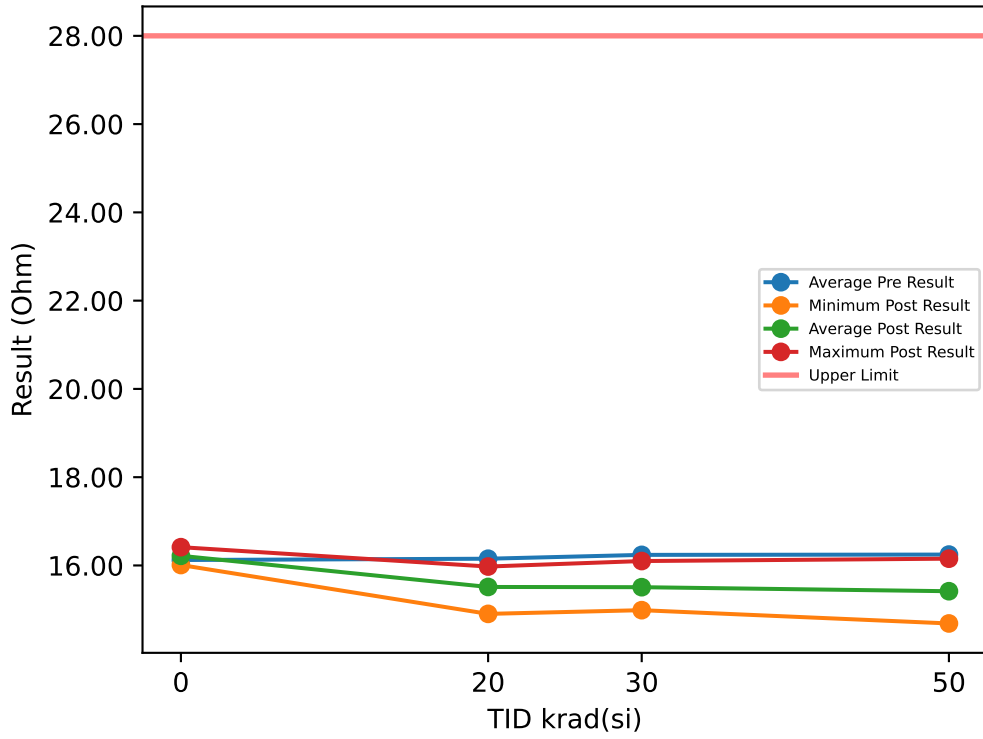
# Device Test: 20.33  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN3/1.6/14/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.244 | 15.228 | -1.0164 |
| 2 | 20 | Bias | 16.355 | 15.351 | -1.004 |
| 3 | 20 | Bias | 16.436 | 15.437 | -0.9993 |
| 4 | 20 | Bias | 15.833 | 14.903 | -0.9306 |
| 5 | 20 | Bias | 16.064 | 15.156 | -0.9087 |
| 6 | 20 | Unbiased | 16.216 | 15.877 | -0.3388 |
| 7 | 20 | Unbiased | 16.233 | 15.925 | -0.3076 |
| 8 | 20 | Unbiased | 16.317 | 15.976 | -0.3419 |
| 9 | 20 | Unbiased | 15.908 | 15.635 | -0.2732 |
| 10 | 20 | Unbiased | 15.918 | 15.641 | -0.2764 |
| 11 | 30 | Bias | 16.488 | 15.224 | -1.2635 |
| 12 | 30 | Bias | 16.575 | 15.269 | -1.3056 |
| 13 | 30 | Bias | 16.445 | 15.39 | -1.0558 |
| 14 | 30 | Bias | 16.154 | 15.235 | -0.9185 |
| 15 | 30 | Bias | 16.416 | 14.987 | -1.429 |
| 16 | 30 | Unbiased | 15.96 | 16.1 | 0.1401 |
| 17 | 30 | Unbiased | 15.902 | 15.66 | -0.2424 |
| 18 | 30 | Unbiased | 15.983 | 15.61 | -0.3736 |
| 19 | 30 | Unbiased | 16.214 | 15.677 | -0.5374 |
| 20 | 30 | Unbiased | 16.26 | 15.924 | -0.336 |
| 21 | 50 | Bias | 16.263 | 14.979 | -1.2838 |
| 22 | 50 | Bias | 16.338 | 15.007 | -1.3306 |
| 23 | 50 | Bias | 15.932 | 15.013 | -0.9184 |
| 24 | 50 | Bias | 16.189 | 14.742 | -1.4477 |
| 25 | 50 | Bias | 16.019 | 14.686 | -1.3334 |
| 26 | 50 | Unbiased | 16.328 | 15.922 | -0.4059 |
| 27 | 50 | Unbiased | 16.37 | 15.977 | -0.3935 |
| 28 | 50 | Unbiased | 16.086 | 15.704 | -0.3825 |
| 29 | 50 | Unbiased | 16.553 | 16.154 | -0.3997 |
| 30 | 50 | Unbiased | 16.386 | 15.979 | -0.4075 |
| 31 | 0 | Correlation | 15.985 | 16.01 | 0.025 |
| 32 | 0 | Correlation | 16.047 | 16.06 | 0.0125 |
| 33 | 0 | Correlation | 16.369 | 16.391 | 0.0219 |
| 34 | 0 | Correlation | 16.093 | 16.414 | 0.3216 |

## Test Statistics (Ohm)
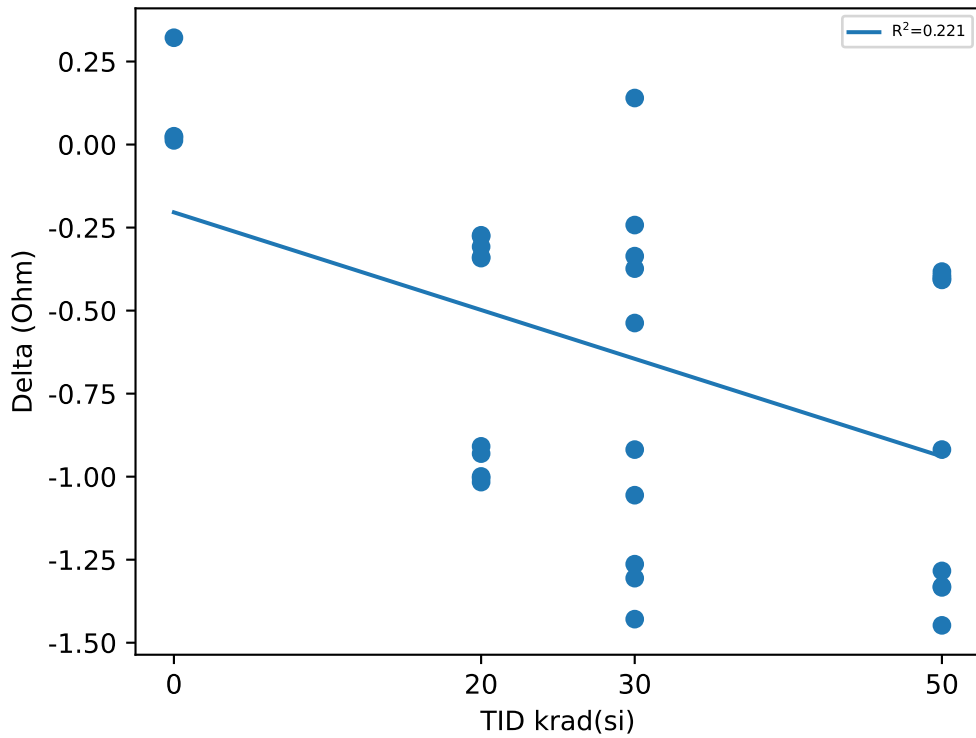
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.985 | 16.123 | 16.369 | 0.16953 | 16.01 | 16.219 | 16.414 | 0.21348 | 0.0125 | 0.09525 | 0.3216 | 0.15099 |
| 20 | 15.833 | 16.153 | 16.436 | 0.20865 | 14.903 | 15.513 | 15.976 | 0.35924 | -1.0164 | -0.63969 | -0.2732 | 0.35225 |
| 30 | 15.902 | 16.24 | 16.575 | 0.2389 | 14.987 | 15.507 | 16.1 | 0.34686 | -1.429 | -0.73217 | 0.1401 | 0.53337 |
| 50 | 15.932 | 16.247 | 16.553 | 0.18971 | 14.686 | 15.416 | 16.154 | 0.57952 | -1.4477 | -0.8303 | -0.3825 | 0.47535 |
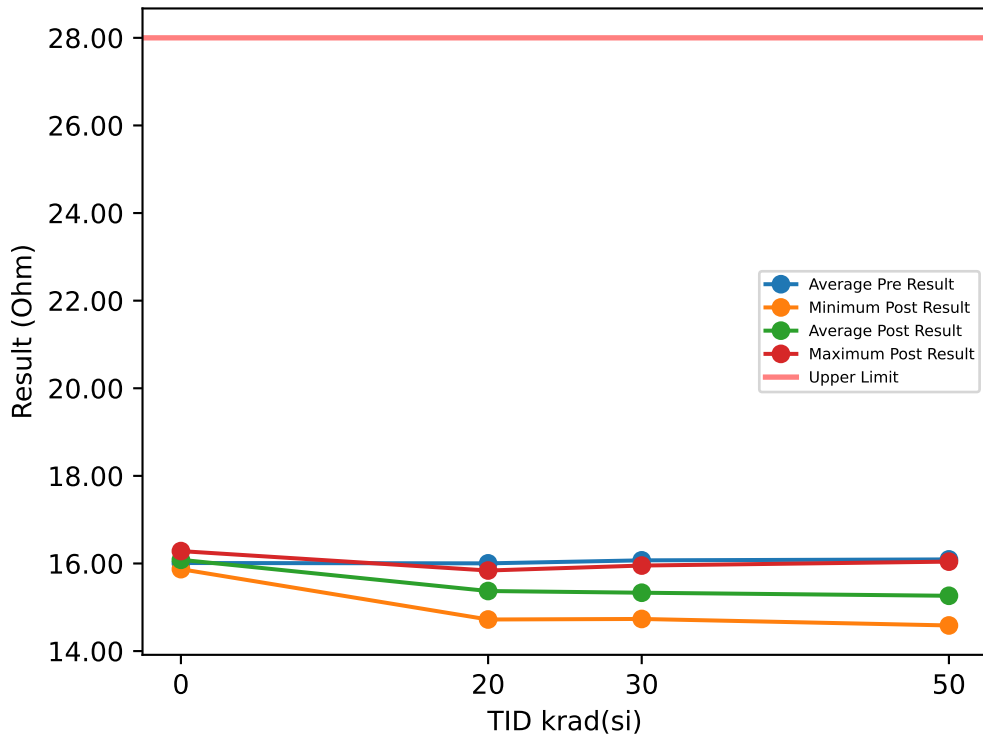
# Device Test: 20.34  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN4/1.6/14/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.097 | 15.11 | -0.9869 |
| 2 | 20 | Bias | 16.156 | 15.166 | -0.99 |
| 3 | 20 | Bias | 16.244 | 15.262 | -0.9822 |
| 4 | 20 | Bias | 15.627 | 14.721 | -0.9057 |
| 5 | 20 | Bias | 16.002 | 15.102 | -0.8994 |
| 6 | 20 | Unbiased | 16.194 | 15.816 | -0.3779 |
| 7 | 20 | Unbiased | 16.139 | 15.839 | -0.2998 |
| 8 | 20 | Unbiased | 16.066 | 15.752 | -0.3138 |
| 9 | 20 | Unbiased | 15.735 | 15.454 | -0.2811 |
| 10 | 20 | Unbiased | 15.771 | 15.493 | -0.2779 |
| 11 | 30 | Bias | 16.341 | 15.007 | -1.3339 |
| 12 | 30 | Bias | 16.444 | 15.127 | -1.3167 |
| 13 | 30 | Bias | 16.328 | 15.253 | -1.0747 |
| 14 | 30 | Bias | 15.886 | 15.107 | -0.7795 |
| 15 | 30 | Bias | 16.319 | 14.733 | -1.5852 |
| 16 | 30 | Unbiased | 15.796 | 15.953 | 0.1572 |
| 17 | 30 | Unbiased | 15.675 | 15.481 | -0.1941 |
| 18 | 30 | Unbiased | 15.755 | 15.374 | -0.3814 |
| 19 | 30 | Unbiased | 16.091 | 15.48 | -0.6109 |
| 20 | 30 | Unbiased | 16.083 | 15.809 | -0.2738 |
| 21 | 50 | Bias | 16.128 | 14.819 | -1.3088 |
| 22 | 50 | Bias | 16.116 | 14.863 | -1.2526 |
| 23 | 50 | Bias | 15.796 | 14.829 | -0.9668 |
| 24 | 50 | Bias | 16.066 | 14.585 | -1.4805 |
| 25 | 50 | Bias | 15.986 | 14.667 | -1.3195 |
| 26 | 50 | Unbiased | 16.077 | 15.714 | -0.3623 |
| 27 | 50 | Unbiased | 16.106 | 15.719 | -0.3872 |
| 28 | 50 | Unbiased | 16.002 | 15.604 | -0.3982 |
| 29 | 50 | Unbiased | 16.456 | 16.042 | -0.4138 |
| 30 | 50 | Unbiased | 16.198 | 15.785 | -0.4138 |
| 31 | 0 | Correlation | 15.87 | 15.87 | 0 |
| 32 | 0 | Correlation | 15.964 | 15.978 | 0.0141 |
| 33 | 0 | Correlation | 16.259 | 16.283 | 0.0234 |
| 34 | 0 | Correlation | 15.949 | 16.206 | 0.2577 |

## Test Statistics (Ohm)
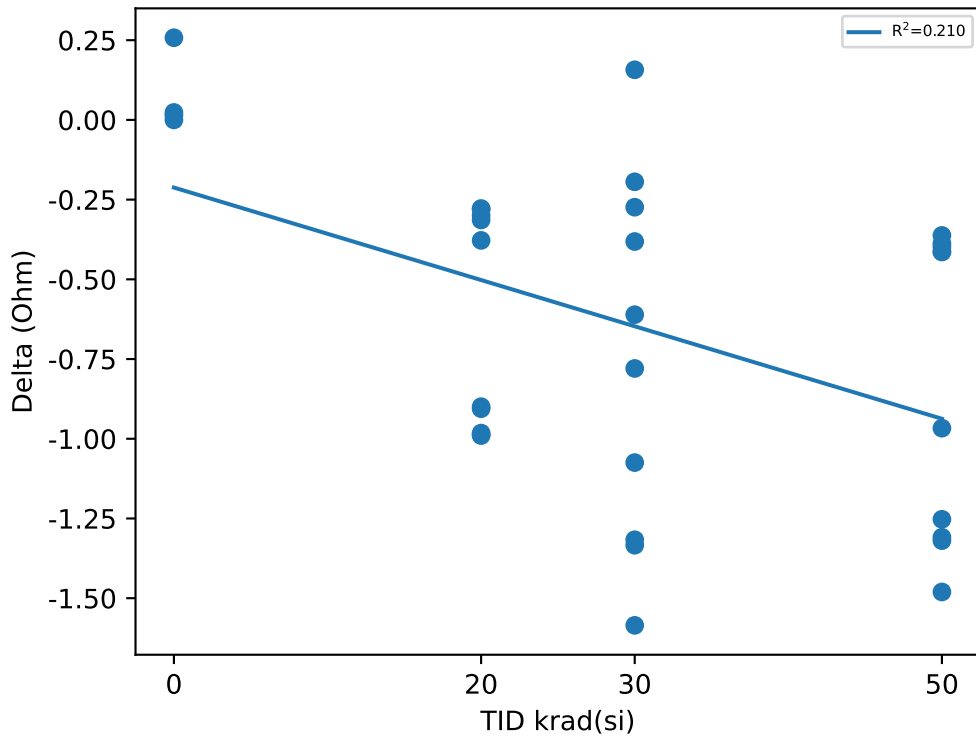
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.87 | 16.011 | 16.259 | 0.17081 | 15.87 | 16.084 | 16.283 | 0.19256 | 0 | 0.0738 | 0.2577 | 0.12298 |
| 20 | 15.627 | 16.003 | 16.244 | 0.21514 | 14.721 | 15.372 | 15.839 | 0.36518 | -0.99 | -0.63147 | -0.2779 | 0.34122 |
| 30 | 15.675 | 16.072 | 16.444 | 0.28005 | 14.733 | 15.332 | 15.953 | 0.36847 | -1.5852 | -0.7393 | 0.1572 | 0.57531 |
| 50 | 15.796 | 16.093 | 16.456 | 0.16804 | 14.585 | 15.263 | 16.042 | 0.55453 | -1.4805 | -0.83035 | -0.3623 | 0.47575 |
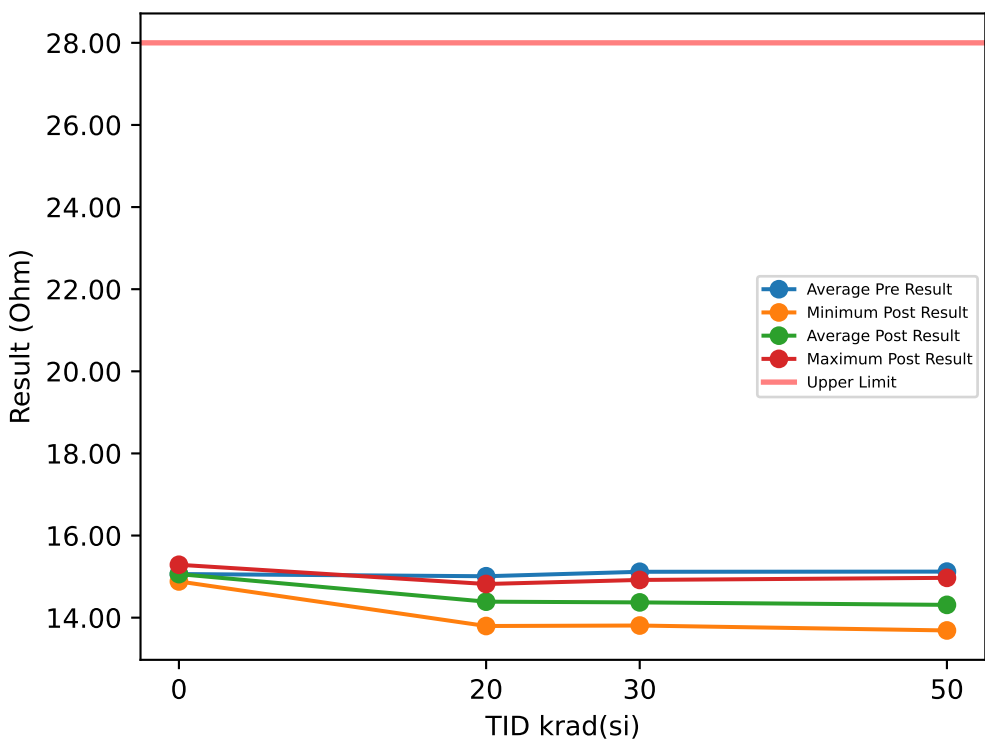
# Device Test: 20.35  PWRGD_RNMOS_LOW_V(_RESISTANCE|SINK/PWRGD/1.6/14/0/0/2/@PWRGD_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 15.163 | 14.154 | -1.0089 |
| 2 | 20 | Bias | 15.209 | 14.189 | -1.0198 |
| 3 | 20 | Bias | 15.304 | 14.345 | -0.9589 |
| 4 | 20 | Bias | 14.685 | 13.797 | -0.8886 |
| 5 | 20 | Bias | 14.981 | 14.104 | -0.8762 |
| 6 | 20 | Unbiased | 15.115 | 14.768 | -0.3467 |
| 7 | 20 | Unbiased | 15.098 | 14.82 | -0.278 |
| 8 | 20 | Unbiased | 15.037 | 14.743 | -0.2936 |
| 9 | 20 | Unbiased | 14.734 | 14.468 | -0.2655 |
| 10 | 20 | Unbiased | 14.764 | 14.506 | -0.2577 |
| 11 | 30 | Bias | 15.246 | 14.007 | -1.2392 |
| 12 | 30 | Bias | 15.43 | 14.049 | -1.3813 |
| 13 | 30 | Bias | 15.291 | 14.254 | -1.0378 |
| 14 | 30 | Bias | 14.934 | 14.126 | -0.8081 |
| 15 | 30 | Bias | 15.24 | 13.809 | -1.4313 |
| 16 | 30 | Unbiased | 14.813 | 14.919 | 0.1053 |
| 17 | 30 | Unbiased | 14.824 | 14.5 | -0.3241 |
| 18 | 30 | Unbiased | 15.052 | 14.508 | -0.5442 |
| 19 | 30 | Unbiased | 15.09 | 14.738 | -0.3522 |
| 20 | 30 | Unbiased | 15.254 | 14.809 | -0.4444 |
| 21 | 50 | Bias | 15.196 | 13.955 | -1.2407 |
| 22 | 50 | Bias | 15.229 | 13.918 | -1.311 |
| 23 | 50 | Bias | 14.937 | 13.924 | -1.0127 |
| 24 | 50 | Bias | 15.004 | 13.688 | -1.3156 |
| 25 | 50 | Bias | 15.029 | 13.697 | -1.3322 |
| 26 | 50 | Unbiased | 15.017 | 14.653 | -0.3639 |
| 27 | 50 | Unbiased | 15.191 | 14.807 | -0.3842 |
| 28 | 50 | Unbiased | 15.001 | 14.632 | -0.3686 |
| 29 | 50 | Unbiased | 15.363 | 14.97 | -0.3935 |
| 30 | 50 | Unbiased | 15.249 | 14.873 | -0.3764 |
| 31 | 0 | Correlation | 14.902 | 14.913 | 0.0109 |
| 32 | 0 | Correlation | 14.87 | 14.882 | 0.0125 |
| 33 | 0 | Correlation | 15.263 | 15.288 | 0.025 |
| 34 | 0 | Correlation | 15.213 | 15.159 | -0.0547 |

## Test Statistics (Ohm)
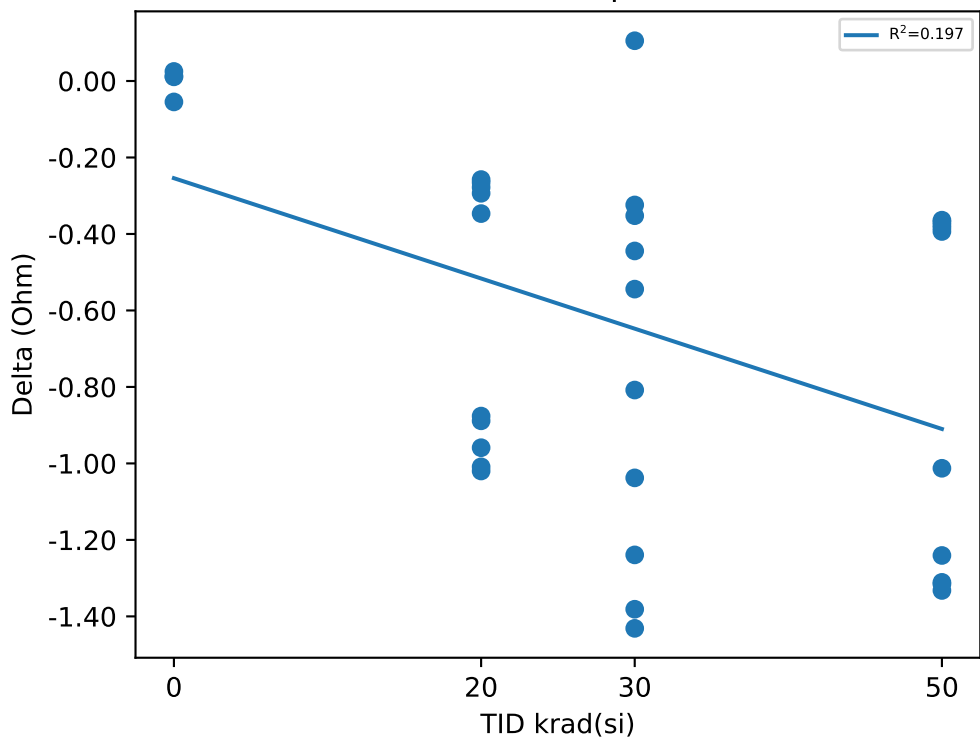
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 14.87 | 15.062 | 15.263 | 0.2048 | 14.882 | 15.061 | 15.288 | 0.19574 | -0.0547 | -0.001575 | 0.025 | 0.035973 |
| 20 | 14.685 | 15.009 | 15.304 | 0.21396 | 13.797 | 14.389 | 14.82 | 0.3339 | -1.0198 | -0.61939 | -0.2577 | 0.35258 |
| 30 | 14.813 | 15.118 | 15.43 | 0.2096 | 13.809 | 14.372 | 14.919 | 0.37843 | -1.4313 | -0.74573 | 0.1053 | 0.51586 |
| 50 | 14.937 | 15.122 | 15.363 | 0.14092 | 13.688 | 14.312 | 14.97 | 0.51759 | -1.3322 | -0.80988 | -0.3639 | 0.46458 |

## TID vs Result Stats
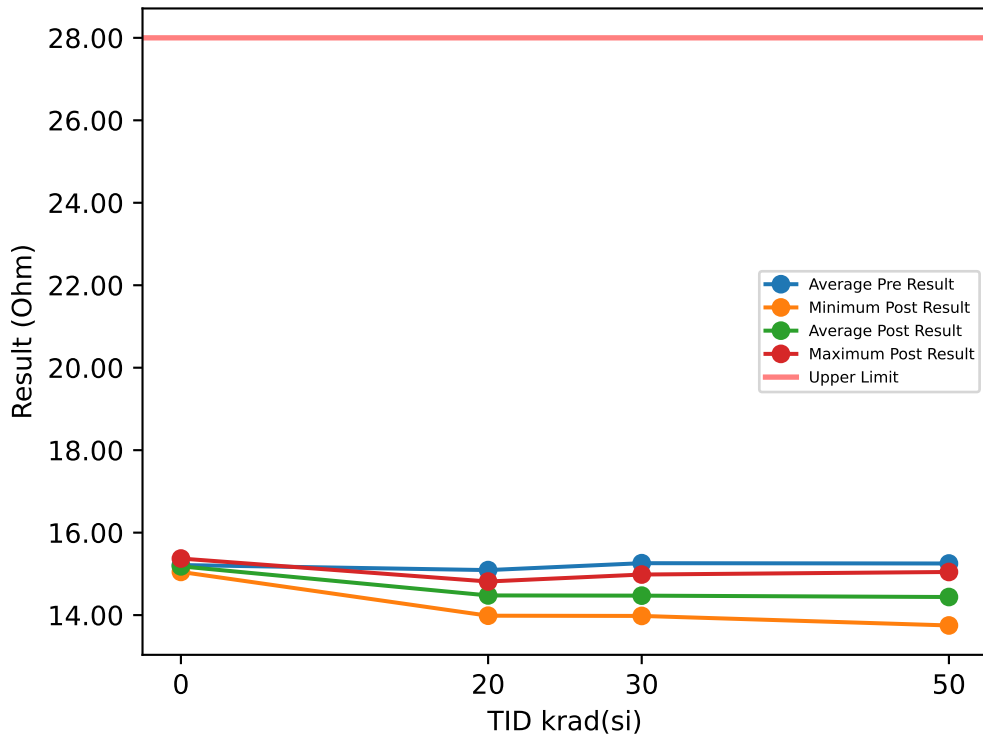


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 15.227 | 14.209 | -1.0181 |
| 2 | 20 | Bias | 15.277 | 14.276 | -1.001 |
| 3 | 20 | Bias | 15.461 | 14.506 | -0.9557 |
| 4 | 20 | Bias | 14.902 | 13.986 | -0.9167 |
| 5 | 20 | Bias | 14.946 | 14.117 | -0.8292 |
| 6 | 20 | Unbiased | 15.13 | 14.779 | -0.3514 |
| 7 | 20 | Unbiased | 15.071 | 14.815 | -0.2561 |
| 8 | 20 | Unbiased | 15.054 | 14.749 | -0.3045 |
| 9 | 20 | Unbiased | 14.855 | 14.606 | -0.2499 |
| 10 | 20 | Unbiased | 14.993 | 14.73 | -0.2624 |
| 11 | 30 | Bias | 15.364 | 14.041 | -1.3234 |
| 12 | 30 | Bias | 15.488 | 14.152 | -1.3359 |
| 13 | 30 | Bias | 15.297 | 14.299 | -0.9987 |
| 14 | 30 | Bias | 15.165 | 14.102 | -1.0626 |
| 15 | 30 | Bias | 15.333 | 13.98 | -1.3531 |
| 16 | 30 | Unbiased | 15.051 | 14.984 | -0.0666 |
| 17 | 30 | Unbiased | 15.065 | 14.706 | -0.3585 |
| 18 | 30 | Unbiased | 15.221 | 14.725 | -0.4959 |
| 19 | 30 | Unbiased | 15.16 | 14.88 | -0.2805 |
| 20 | 30 | Unbiased | 15.449 | 14.854 | -0.5944 |
| 21 | 50 | Bias | 15.325 | 14.118 | -1.2079 |
| 22 | 50 | Bias | 15.322 | 14.008 | -1.3141 |
| 23 | 50 | Bias | 15.004 | 13.991 | -1.0126 |
| 24 | 50 | Bias | 15.191 | 13.749 | -1.4421 |
| 25 | 50 | Bias | 15.199 | 13.875 | -1.3242 |
| 26 | 50 | Unbiased | 15.402 | 15.027 | -0.3748 |
| 27 | 50 | Unbiased | 15.31 | 14.962 | -0.3483 |
| 28 | 50 | Unbiased | 15.027 | 14.676 | -0.3513 |
| 29 | 50 | Unbiased | 15.407 | 15.046 | -0.3607 |
| 30 | 50 | Unbiased | 15.332 | 14.938 | -0.3935 |
| 31 | 0 | Correlation | 15.023 | 15.047 | 0.025 |
| 32 | 0 | Correlation | 15.088 | 15.119 | 0.0313 |
| 33 | 0 | Correlation | 15.343 | 15.372 | 0.0296 |
| 34 | 0 | Correlation | 15.405 | 15.191 | -0.2139 |

## Test Statistics (Ohm)
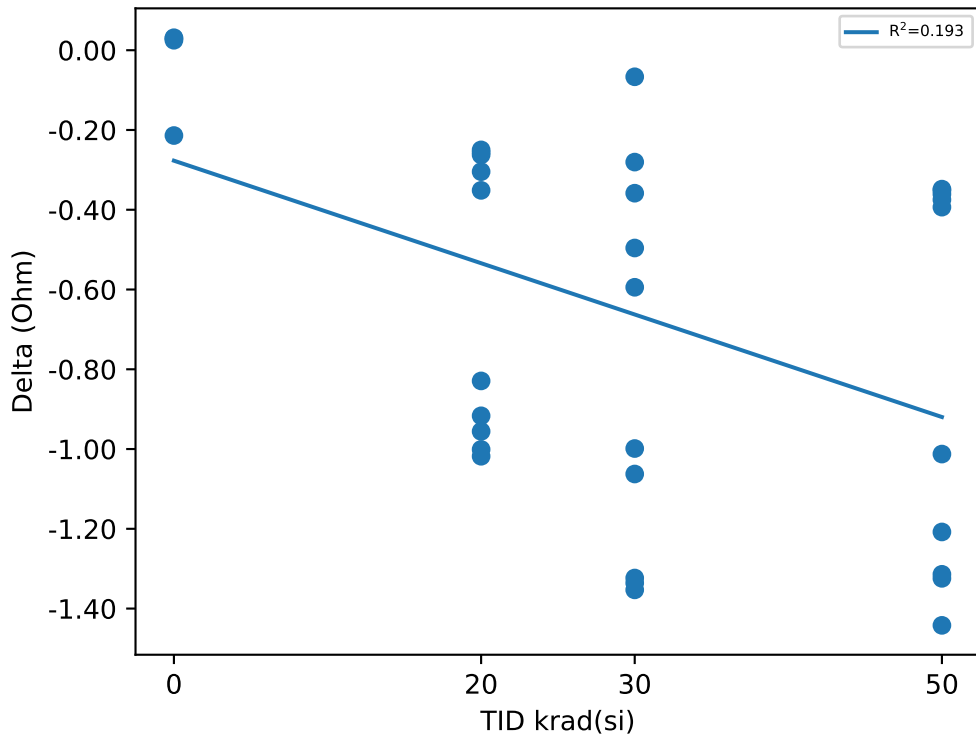
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.023 | 15.215 | 15.405 | 0.18762 | 15.047 | 15.183 | 15.372 | 0.13941 | -0.2139 | -0.032 | 0.0313 | 0.1213 |
| 20 | 14.855 | 15.092 | 15.461 | 0.1872 | 13.986 | 14.477 | 14.815 | 0.30632 | -1.0181 | -0.6145 | -0.2499 | 0.35226 |
| 30 | 15.051 | 15.259 | 15.488 | 0.15198 | 13.98 | 14.472 | 14.984 | 0.39304 | -1.3531 | -0.78696 | -0.0666 | 0.48433 |
| 50 | 15.004 | 15.252 | 15.407 | 0.14343 | 13.749 | 14.439 | 15.046 | 0.53505 | -1.4421 | -0.81295 | -0.3483 | 0.4837 |
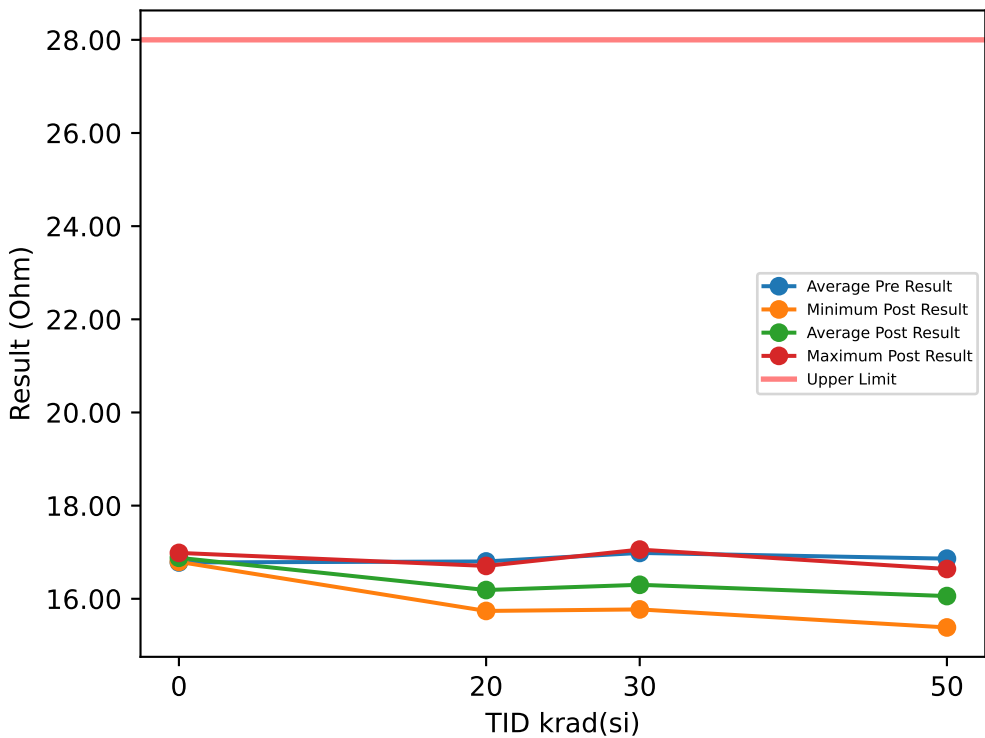
# Device Test: 20.37  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN1/7/3/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.704 | 15.739 | -0.9649 |
| 2 | 20 | Bias | 16.745 | 15.819 | -0.9259 |
| 3 | 20 | Bias | 16.966 | 16.028 | -0.9384 |
| 4 | 20 | Bias | 16.651 | 15.742 | -0.9087 |
| 5 | 20 | Bias | 16.852 | 15.951 | -0.901 |
| 6 | 20 | Unbiased | 16.988 | 16.637 | -0.3513 |
| 7 | 20 | Unbiased | 16.901 | 16.612 | -0.2889 |
| 8 | 20 | Unbiased | 16.409 | 16.103 | -0.306 |
| 9 | 20 | Unbiased | 16.826 | 16.542 | -0.2842 |
| 10 | 20 | Unbiased | 16.974 | 16.706 | -0.2685 |
| 11 | 30 | Bias | 17.105 | 15.812 | -1.2929 |
| 12 | 30 | Bias | 17.105 | 15.954 | -1.1509 |
| 13 | 30 | Bias | 16.977 | 15.997 | -0.9807 |
| 14 | 30 | Bias | 16.893 | 15.867 | -1.0259 |
| 15 | 30 | Bias | 17.386 | 15.772 | -1.6146 |
| 16 | 30 | Unbiased | 16.851 | 17.056 | 0.2057 |
| 17 | 30 | Unbiased | 16.726 | 16.526 | -0.2001 |
| 18 | 30 | Unbiased | 16.924 | 16.482 | -0.4421 |
| 19 | 30 | Unbiased | 17.176 | 16.635 | -0.5405 |
| 20 | 30 | Unbiased | 16.703 | 16.904 | 0.2011 |
| 21 | 50 | Bias | 16.902 | 15.559 | -1.3428 |
| 22 | 50 | Bias | 16.862 | 15.683 | -1.1789 |
| 23 | 50 | Bias | 16.948 | 15.683 | -1.2648 |
| 24 | 50 | Bias | 16.78 | 15.73 | -1.0509 |
| 25 | 50 | Bias | 16.676 | 15.385 | -1.2913 |
| 26 | 50 | Unbiased | 16.812 | 16.451 | -0.3607 |
| 27 | 50 | Unbiased | 16.732 | 16.351 | -0.381 |
| 28 | 50 | Unbiased | 17.015 | 16.64 | -0.3747 |
| 29 | 50 | Unbiased | 17.029 | 16.629 | -0.3997 |
| 30 | 50 | Unbiased | 16.865 | 16.474 | -0.3903 |
| 31 | 0 | Correlation | 16.976 | 16.985 | 0.0094 |
| 32 | 0 | Correlation | 16.82 | 16.829 | 0.0093 |
| 33 | 0 | Correlation | 16.777 | 16.793 | 0.0156 |
| 34 | 0 | Correlation | 16.546 | 16.915 | 0.3685 |

## Test Statistics (Ohm)
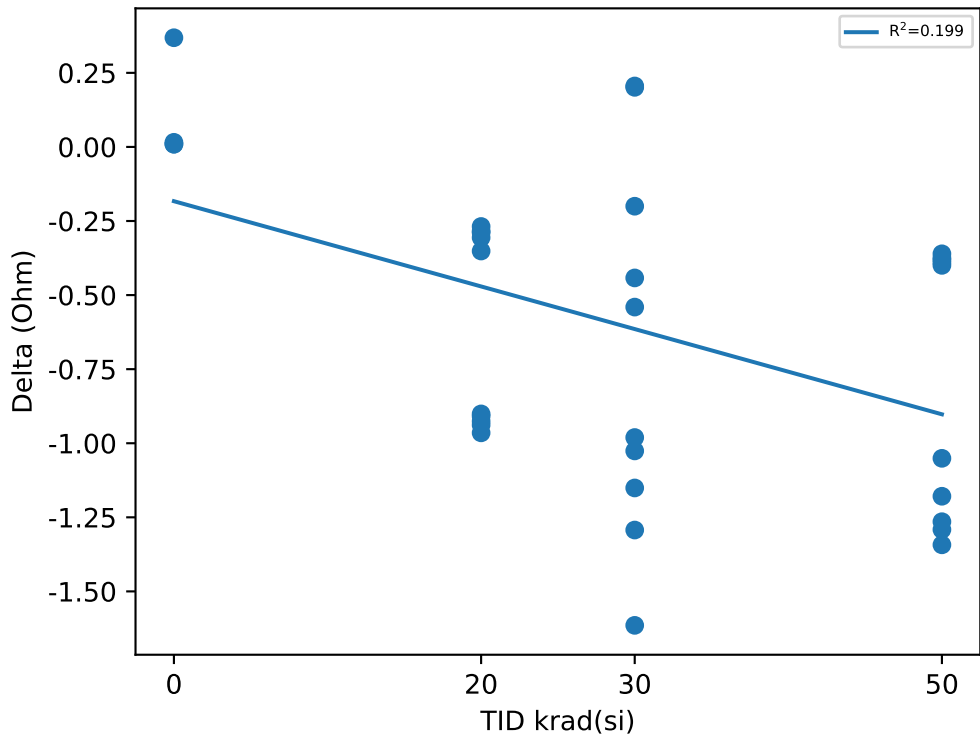
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.546 | 16.78 | 16.976 | 0.17747 | 16.793 | 16.88 | 16.985 | 0.08648 | 0.0093 | 0.1007 | 0.3685 | 0.17856 |
| 20 | 16.409 | 16.802 | 16.988 | 0.18086 | 15.739 | 16.188 | 16.706 | 0.39435 | -0.9649 | -0.61378 | -0.2685 | 0.33209 |
| 30 | 16.703 | 16.985 | 17.386 | 0.21176 | 15.772 | 16.301 | 17.056 | 0.47712 | -1.6146 | -0.68409 | 0.2057 | 0.62787 |
| 50 | 16.676 | 16.862 | 17.029 | 0.11584 | 15.385 | 16.059 | 16.64 | 0.49105 | -1.3428 | -0.80351 | -0.3607 | 0.45166 |
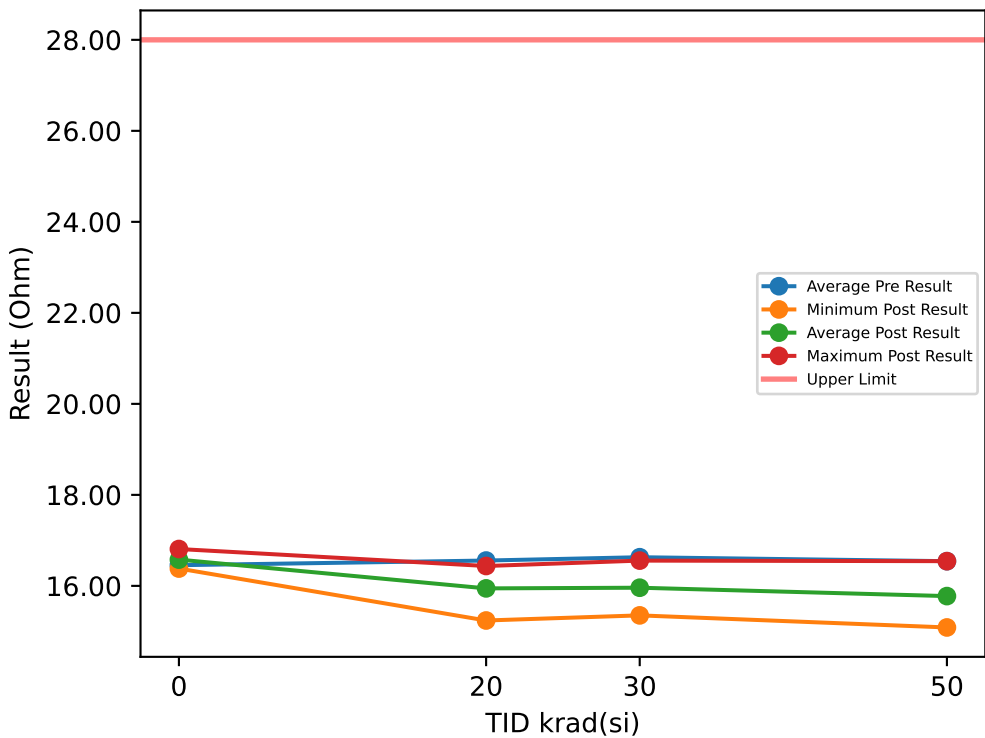
# Device Test: 20.38  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN2/7/3/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.638 | 15.669 | -0.9697 |
| 2 | 20 | Bias | 16.692 | 15.719 | -0.9728 |
| 3 | 20 | Bias | 16.888 | 15.975 | -0.9135 |
| 4 | 20 | Bias | 16.122 | 15.239 | -0.8822 |
| 5 | 20 | Bias | 16.482 | 15.627 | -0.8557 |
| 6 | 20 | Unbiased | 16.74 | 16.376 | -0.3639 |
| 7 | 20 | Unbiased | 16.685 | 16.396 | -0.2889 |
| 8 | 20 | Unbiased | 16.749 | 16.437 | -0.3123 |
| 9 | 20 | Unbiased | 16.312 | 16.034 | -0.2779 |
| 10 | 20 | Unbiased | 16.261 | 15.979 | -0.2811 |
| 11 | 30 | Bias | 16.862 | 15.706 | -1.1555 |
| 12 | 30 | Bias | 17.037 | 15.747 | -1.2897 |
| 13 | 30 | Bias | 16.91 | 15.932 | -0.9776 |
| 14 | 30 | Bias | 16.424 | 15.773 | -0.6511 |
| 15 | 30 | Bias | 16.855 | 15.352 | -1.5036 |
| 16 | 30 | Unbiased | 16.307 | 16.555 | 0.248 |
| 17 | 30 | Unbiased | 16.293 | 16.029 | -0.264 |
| 18 | 30 | Unbiased | 16.403 | 16.031 | -0.3718 |
| 19 | 30 | Unbiased | 16.627 | 16.129 | -0.4982 |
| 20 | 30 | Unbiased | 16.581 | 16.341 | -0.2391 |
| 21 | 50 | Bias | 16.602 | 15.408 | -1.1945 |
| 22 | 50 | Bias | 16.551 | 15.425 | -1.1257 |
| 23 | 50 | Bias | 16.309 | 15.36 | -0.9493 |
| 24 | 50 | Bias | 16.406 | 15.163 | -1.2427 |
| 25 | 50 | Bias | 16.356 | 15.086 | -1.2694 |
| 26 | 50 | Unbiased | 16.607 | 16.228 | -0.3794 |
| 27 | 50 | Unbiased | 16.531 | 16.153 | -0.3779 |
| 28 | 50 | Unbiased | 16.376 | 15.998 | -0.3778 |
| 29 | 50 | Unbiased | 16.924 | 16.543 | -0.381 |
| 30 | 50 | Unbiased | 16.768 | 16.392 | -0.3763 |
| 31 | 0 | Correlation | 16.359 | 16.382 | 0.0234 |
| 32 | 0 | Correlation | 16.351 | 16.381 | 0.0296 |
| 33 | 0 | Correlation | 16.72 | 16.735 | 0.0156 |
| 34 | 0 | Correlation | 16.389 | 16.81 | 0.4216 |

## Test Statistics (Ohm)
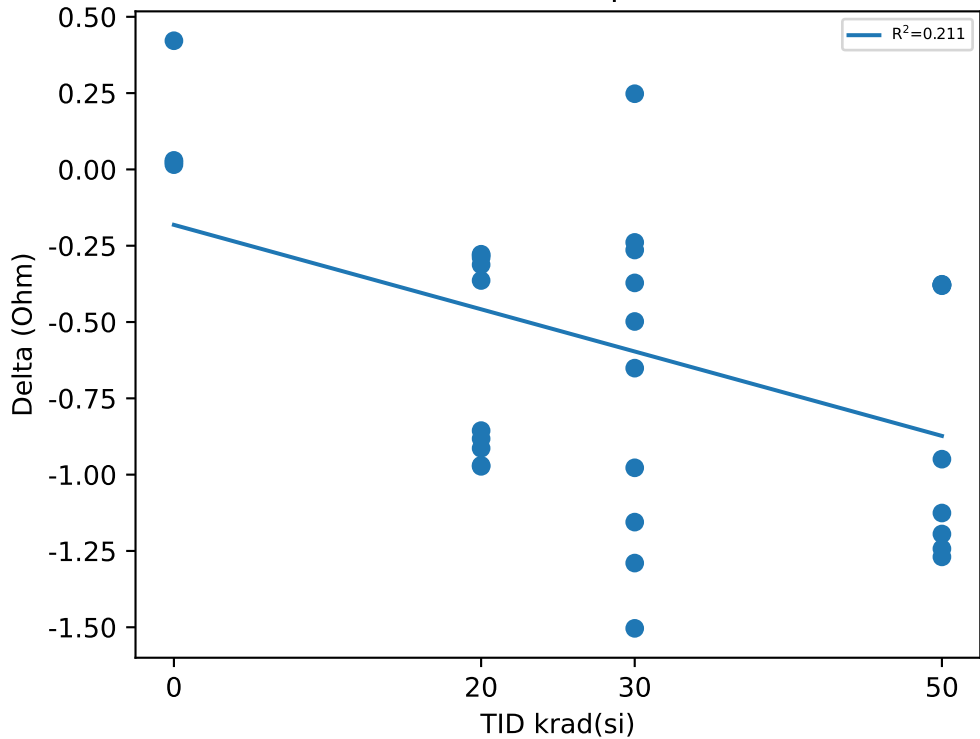
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.351 | 16.455 | 16.72 | 0.17745 | 16.381 | 16.577 | 16.81 | 0.22789 | 0.0156 | 0.12255 | 0.4216 | 0.19945 |
| 20 | 16.122 | 16.557 | 16.888 | 0.25043 | 15.239 | 15.945 | 16.437 | 0.38993 | -0.9728 | -0.6118 | -0.2779 | 0.32631 |
| 30 | 16.293 | 16.63 | 17.037 | 0.27124 | 15.352 | 15.96 | 16.555 | 0.34218 | -1.5036 | -0.67026 | 0.248 | 0.54988 |
| 50 | 16.309 | 16.543 | 16.924 | 0.19447 | 15.086 | 15.776 | 16.543 | 0.54223 | -1.2694 | -0.7674 | -0.3763 | 0.41874 |
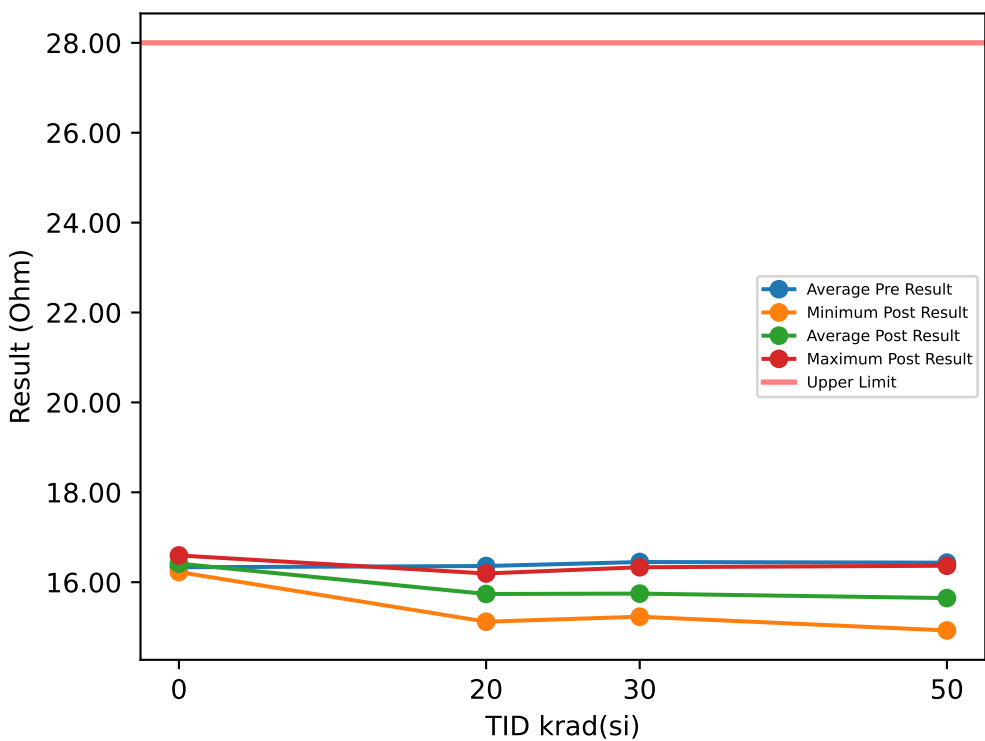
# Device Test: 20.39  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN3/7/3/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.439 | 15.476 | -0.9634 |
| 2 | 20 | Bias | 16.569 | 15.601 | -0.9681 |
| 3 | 20 | Bias | 16.672 | 15.727 | -0.9446 |
| 4 | 20 | Bias | 16.015 | 15.121 | -0.8931 |
| 5 | 20 | Bias | 16.272 | 15.399 | -0.8728 |
| 6 | 20 | Unbiased | 16.459 | 16.107 | -0.3529 |
| 7 | 20 | Unbiased | 16.414 | 16.102 | -0.3123 |
| 8 | 20 | Unbiased | 16.52 | 16.194 | -0.3263 |
| 9 | 20 | Unbiased | 16.146 | 15.841 | -0.3045 |
| 10 | 20 | Unbiased | 16.093 | 15.808 | -0.2842 |
| 11 | 30 | Bias | 16.741 | 15.479 | -1.2619 |
| 12 | 30 | Bias | 16.803 | 15.579 | -1.2245 |
| 13 | 30 | Bias | 16.642 | 15.671 | -0.9716 |
| 14 | 30 | Bias | 16.333 | 15.501 | -0.8325 |
| 15 | 30 | Bias | 16.664 | 15.232 | -1.4321 |
| 16 | 30 | Unbiased | 16.136 | 16.333 | 0.1963 |
| 17 | 30 | Unbiased | 16.122 | 15.81 | -0.3126 |
| 18 | 30 | Unbiased | 16.177 | 15.839 | -0.3377 |
| 19 | 30 | Unbiased | 16.405 | 15.906 | -0.4984 |
| 20 | 30 | Unbiased | 16.469 | 16.116 | -0.3532 |
| 21 | 50 | Bias | 16.539 | 15.28 | -1.2588 |
| 22 | 50 | Bias | 16.47 | 15.318 | -1.1526 |
| 23 | 50 | Bias | 16.15 | 15.268 | -0.8825 |
| 24 | 50 | Bias | 16.356 | 14.995 | -1.3618 |
| 25 | 50 | Bias | 16.188 | 14.926 | -1.2615 |
| 26 | 50 | Unbiased | 16.545 | 16.147 | -0.3982 |
| 27 | 50 | Unbiased | 16.52 | 16.135 | -0.3857 |
| 28 | 50 | Unbiased | 16.278 | 15.871 | -0.4075 |
| 29 | 50 | Unbiased | 16.77 | 16.366 | -0.4044 |
| 30 | 50 | Unbiased | 16.528 | 16.157 | -0.3716 |
| 31 | 0 | Correlation | 16.182 | 16.225 | 0.0437 |
| 32 | 0 | Correlation | 16.277 | 16.266 | -0.0109 |
| 33 | 0 | Correlation | 16.564 | 16.569 | 0.0047 |
| 34 | 0 | Correlation | 16.308 | 16.595 | 0.2873 |

## Test Statistics (Ohm)
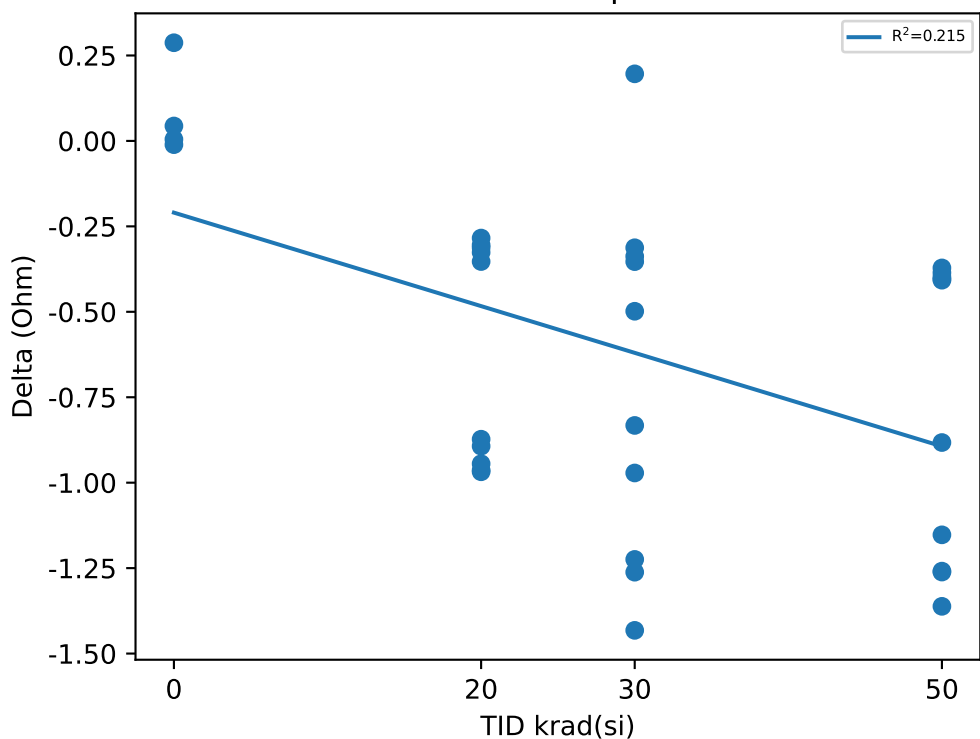
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.182 | 16.333 | 16.564 | 0.16341 | 16.225 | 16.414 | 16.595 | 0.19526 | -0.0109 | 0.0812 | 0.2873 | 0.13931 |
| 20 | 16.015 | 16.36 | 16.672 | 0.21863 | 15.121 | 15.738 | 16.194 | 0.34554 | -0.9681 | -0.62222 | -0.2842 | 0.32446 |
| 30 | 16.122 | 16.449 | 16.803 | 0.25566 | 15.232 | 15.746 | 16.333 | 0.32472 | -1.4321 | -0.70282 | 0.1963 | 0.5232 |
| 50 | 16.15 | 16.435 | 16.77 | 0.19017 | 14.926 | 15.646 | 16.366 | 0.54224 | -1.3618 | -0.78846 | -0.3716 | 0.43411 |
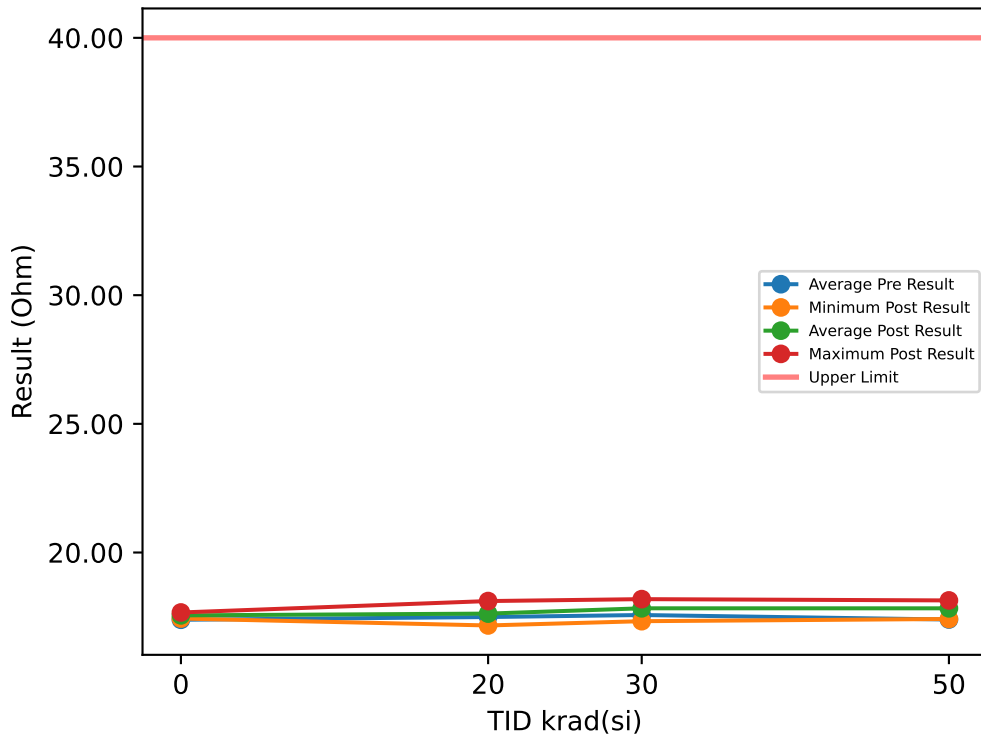
# Device Test: 20.4   EN_RPMOS_LOW_V(_RESISTANCE|SOURCE/EN4/1.6/3/0/0/2/@EN_RPMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 17.832 | 17.942 | 0.1093 |
| 2 | 20 | Bias | 17.801 | 17.931 | 0.1296 |
| 3 | 20 | Bias | 17.976 | 18.113 | 0.1374 |
| 4 | 20 | Bias | 17.042 | 17.218 | 0.1764 |
| 5 | 20 | Bias | 17.475 | 17.57 | 0.0953 |
| 6 | 20 | Unbiased | 17.434 | 17.554 | 0.1203 |
| 7 | 20 | Unbiased | 17.489 | 17.643 | 0.1546 |
| 8 | 20 | Unbiased | 17.034 | 17.165 | 0.1311 |
| 9 | 20 | Unbiased | 17.517 | 17.632 | 0.1155 |
| 10 | 20 | Unbiased | 17.328 | 17.492 | 0.164 |
| 11 | 30 | Bias | 17.951 | 17.902 | -0.0484 |
| 12 | 30 | Bias | 17.728 | 18.188 | 0.4606 |
| 13 | 30 | Bias | 17.715 | 17.956 | 0.2405 |
| 14 | 30 | Bias | 17.401 | 17.949 | 0.5482 |
| 15 | 30 | Bias | 17.907 | 17.614 | -0.2935 |
| 16 | 30 | Unbiased | 17.158 | 18.095 | 0.9369 |
| 17 | 30 | Unbiased | 17.273 | 17.331 | 0.058 |
| 18 | 30 | Unbiased | 17.501 | 17.508 | 0.0064 |
| 19 | 30 | Unbiased | 17.802 | 17.729 | -0.0732 |
| 20 | 30 | Unbiased | 17.275 | 18.048 | 0.773 |
| 21 | 50 | Bias | 17.406 | 17.623 | 0.2172 |
| 22 | 50 | Bias | 17.447 | 17.746 | 0.2999 |
| 23 | 50 | Bias | 17.429 | 17.806 | 0.3764 |
| 24 | 50 | Bias | 17.287 | 17.746 | 0.4592 |
| 25 | 50 | Bias | 17.003 | 17.417 | 0.4138 |
| 26 | 50 | Unbiased | 17.567 | 18.087 | 0.5199 |
| 27 | 50 | Unbiased | 17.259 | 17.757 | 0.4982 |
| 28 | 50 | Unbiased | 17.625 | 18.138 | 0.5138 |
| 29 | 50 | Unbiased | 17.568 | 18.07 | 0.5013 |
| 30 | 50 | Unbiased | 17.37 | 17.921 | 0.5512 |
| 31 | 0 | Correlation | 17.589 | 17.662 | 0.0734 |
| 32 | 0 | Correlation | 17.411 | 17.462 | 0.0515 |
| 33 | 0 | Correlation | 17.44 | 17.434 | -0.0063 |
| 34 | 0 | Correlation | 17.106 | 17.67 | 0.5637 |

## Test Statistics (Ohm)
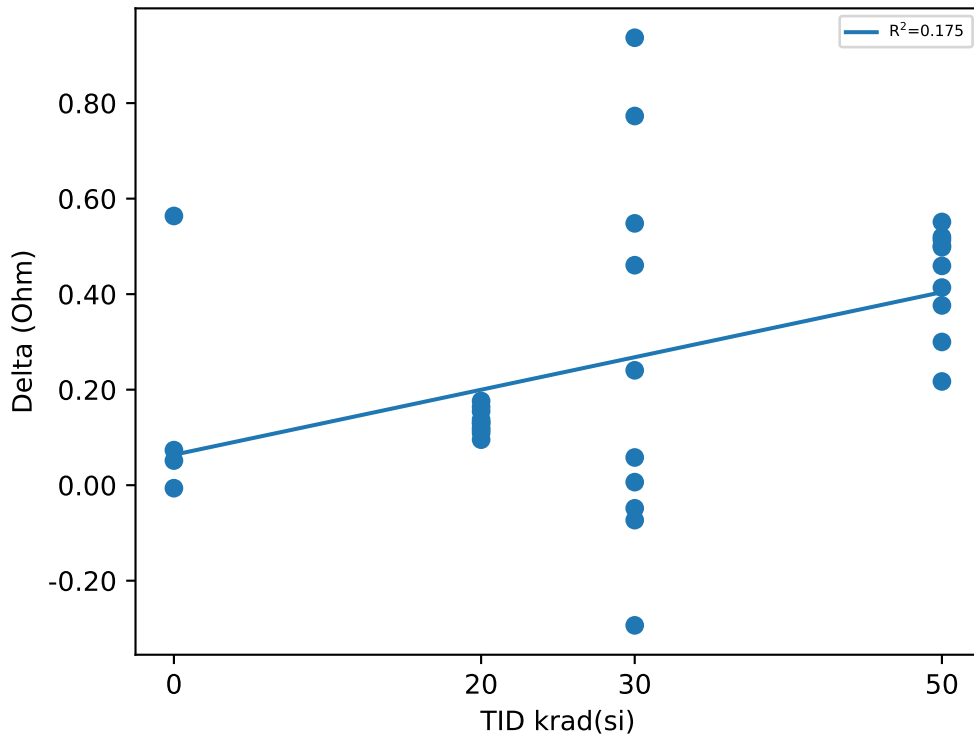
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.106 | 17.386 | 17.589 | 0.20244 | 17.434 | 17.557 | 17.67 | 0.12634 | -0.0063 | 0.17057 | 0.5637 | 0.26423 |
| 20 | 17.034 | 17.493 | 17.976 | 0.31421 | 17.165 | 17.626 | 18.113 | 0.30453 | 0.0953 | 0.13335 | 0.1764 | 0.025375 |
| 30 | 17.158 | 17.571 | 17.951 | 0.28622 | 17.331 | 17.832 | 18.188 | 0.277 | -0.2935 | 0.26085 | 0.9369 | 0.40313 |
| 50 | 17.003 | 17.396 | 17.625 | 0.18274 | 17.417 | 17.831 | 18.138 | 0.22609 | 0.2172 | 0.43509 | 0.5512 | 0.10825 |
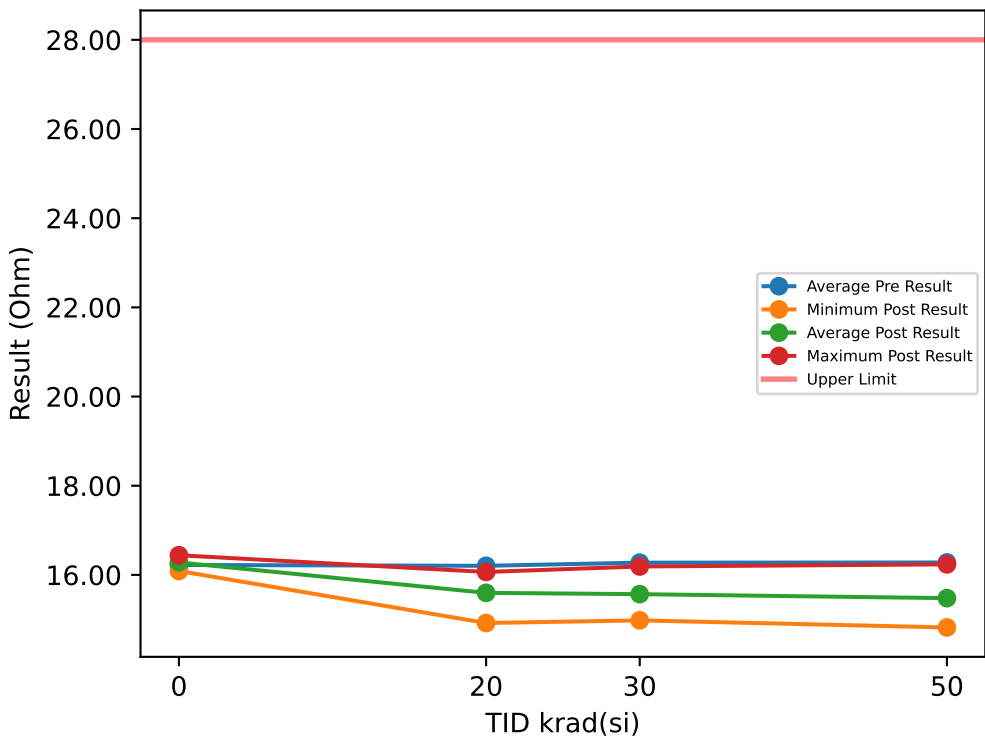
# Device Test: 20.40  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN4/7/3/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 16.306 | 15.332 | -0.9744 |
| 2 | 20 | Bias | 16.364 | 15.418 | -0.9463 |
| 3 | 20 | Bias | 16.486 | 15.563 | -0.9229 |
| 4 | 20 | Bias | 15.802 | 14.921 | -0.8807 |
| 5 | 20 | Bias | 16.192 | 15.349 | -0.8432 |
| 6 | 20 | Unbiased | 16.419 | 16.066 | -0.3529 |
| 7 | 20 | Unbiased | 16.331 | 16.028 | -0.3029 |
| 8 | 20 | Unbiased | 16.272 | 15.967 | -0.3045 |
| 9 | 20 | Unbiased | 15.949 | 15.663 | -0.2857 |
| 10 | 20 | Unbiased | 15.917 | 15.663 | -0.2545 |
| 11 | 30 | Bias | 16.578 | 15.269 | -1.3089 |
| 12 | 30 | Bias | 16.651 | 15.408 | -1.2434 |
| 13 | 30 | Bias | 16.505 | 15.545 | -0.9592 |
| 14 | 30 | Bias | 16.058 | 15.366 | -0.6921 |
| 15 | 30 | Bias | 16.529 | 14.98 | -1.5493 |
| 16 | 30 | Unbiased | 15.972 | 16.189 | 0.2165 |
| 17 | 30 | Unbiased | 15.869 | 15.656 | -0.2128 |
| 18 | 30 | Unbiased | 15.98 | 15.592 | -0.3877 |
| 19 | 30 | Unbiased | 16.286 | 15.694 | -0.5923 |
| 20 | 30 | Unbiased | 16.317 | 15.978 | -0.3394 |
| 21 | 50 | Bias | 16.386 | 15.089 | -1.2963 |
| 22 | 50 | Bias | 16.306 | 15.161 | -1.1449 |
| 23 | 50 | Bias | 15.999 | 15.068 | -0.931 |
| 24 | 50 | Bias | 16.234 | 14.821 | -1.4134 |
| 25 | 50 | Bias | 16.15 | 14.87 | -1.2805 |
| 26 | 50 | Unbiased | 16.308 | 15.927 | -0.381 |
| 27 | 50 | Unbiased | 16.239 | 15.863 | -0.3764 |
| 28 | 50 | Unbiased | 16.164 | 15.783 | -0.381 |
| 29 | 50 | Unbiased | 16.645 | 16.236 | -0.4092 |
| 30 | 50 | Unbiased | 16.352 | 15.967 | -0.3841 |
| 31 | 0 | Correlation | 16.069 | 16.088 | 0.0187 |
| 32 | 0 | Correlation | 16.189 | 16.178 | -0.0109 |
| 33 | 0 | Correlation | 16.417 | 16.441 | 0.0234 |
| 34 | 0 | Correlation | 16.214 | 16.412 | 0.1983 |

## Test Statistics (Ohm)
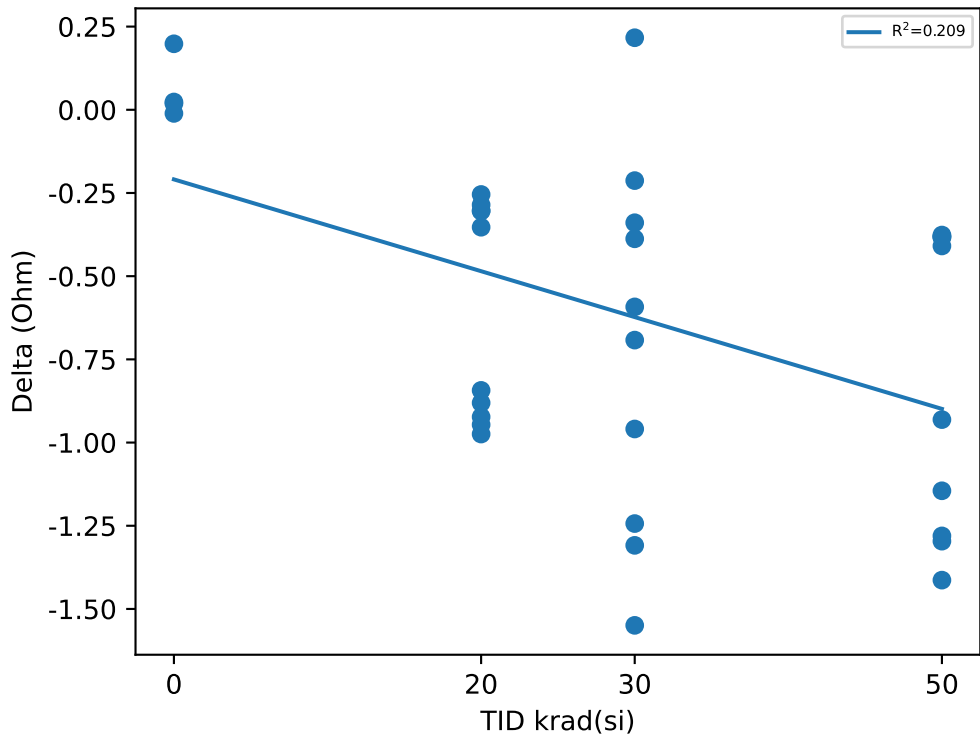
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.069 | 16.222 | 16.417 | 0.14451 | 16.088 | 16.28 | 16.441 | 0.17385 | -0.0109 | 0.057375 | 0.1983 | 0.095169 |
| 20 | 15.802 | 16.204 | 16.486 | 0.23371 | 14.921 | 15.597 | 16.066 | 0.3611 | -0.9744 | -0.6068 | -0.2545 | 0.32603 |
| 30 | 15.869 | 16.274 | 16.651 | 0.28743 | 14.98 | 15.568 | 16.189 | 0.34624 | -1.5493 | -0.70686 | 0.2165 | 0.55484 |
| 50 | 15.999 | 16.278 | 16.645 | 0.17136 | 14.821 | 15.478 | 16.236 | 0.52471 | -1.4134 | -0.79978 | -0.3764 | 0.45287 |
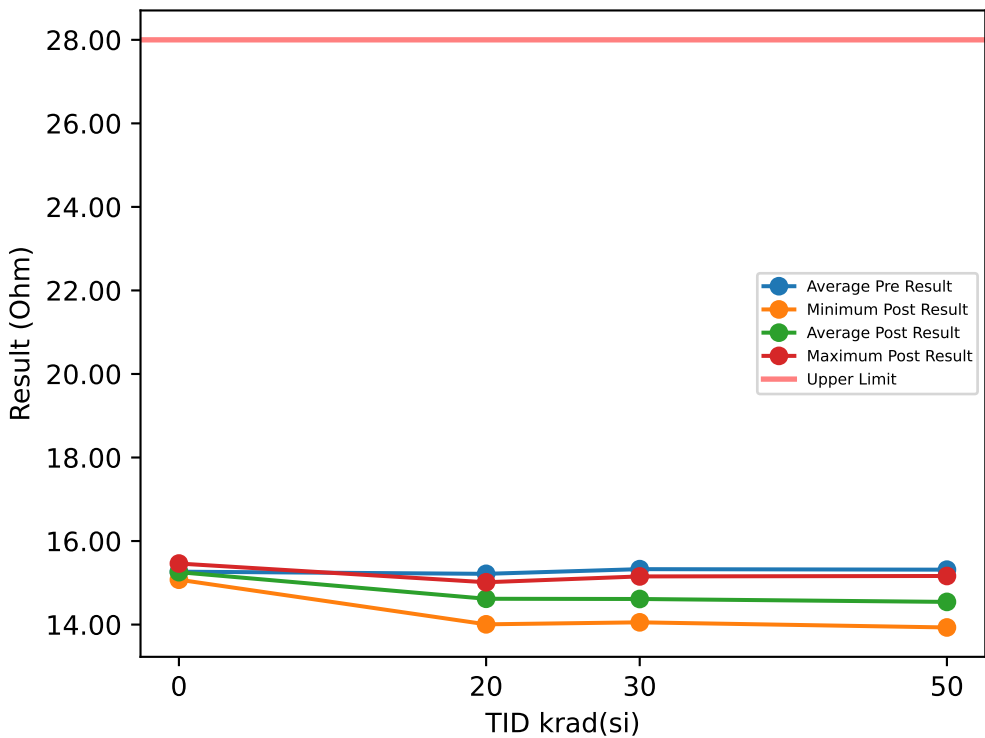
# Device Test: 20.41 PWRGD_RNMOS_LOW_V(_RESISTANCE|SINK/PWRGD/7/3/0/0/2/@PWRGD_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 15.357 | 14.393 | -0.9636 |
| 2 | 20 | Bias | 15.401 | 14.464 | -0.9371 |
| 3 | 20 | Bias | 15.56 | 14.632 | -0.9277 |
| 4 | 20 | Bias | 14.884 | 14.006 | -0.8778 |
| 5 | 20 | Bias | 15.206 | 14.365 | -0.8402 |
| 6 | 20 | Unbiased | 15.343 | 15.013 | -0.3295 |
| 7 | 20 | Unbiased | 15.284 | 15.007 | -0.2765 |
| 8 | 20 | Unbiased | 15.243 | 14.956 | -0.2874 |
| 9 | 20 | Unbiased | 14.97 | 14.695 | -0.2749 |
| 10 | 20 | Unbiased | 14.902 | 14.648 | -0.2546 |
| 11 | 30 | Bias | 15.488 | 14.255 | -1.233 |
| 12 | 30 | Bias | 15.643 | 14.33 | -1.3126 |
| 13 | 30 | Bias | 15.51 | 14.543 | -0.9675 |
| 14 | 30 | Bias | 15.146 | 14.422 | -0.7238 |
| 15 | 30 | Bias | 15.476 | 14.054 | -1.4219 |
| 16 | 30 | Unbiased | 14.97 | 15.153 | 0.1833 |
| 17 | 30 | Unbiased | 15.038 | 14.674 | -0.3647 |
| 18 | 30 | Unbiased | 15.252 | 14.719 | -0.5334 |
| 19 | 30 | Unbiased | 15.277 | 14.988 | -0.2898 |
| 20 | 30 | Unbiased | 15.471 | 14.989 | -0.4819 |
| 21 | 50 | Bias | 15.465 | 14.241 | -1.2236 |
| 22 | 50 | Bias | 15.393 | 14.226 | -1.1674 |
| 23 | 50 | Bias | 15.138 | 14.168 | -0.9705 |
| 24 | 50 | Bias | 15.204 | 13.951 | -1.2532 |
| 25 | 50 | Bias | 15.193 | 13.931 | -1.2619 |
| 26 | 50 | Unbiased | 15.221 | 14.864 | -0.3576 |
| 27 | 50 | Unbiased | 15.349 | 14.984 | -0.3655 |
| 28 | 50 | Unbiased | 15.206 | 14.852 | -0.353 |
| 29 | 50 | Unbiased | 15.568 | 15.163 | -0.4045 |
| 30 | 50 | Unbiased | 15.41 | 15.051 | -0.3592 |
| 31 | 0 | Correlation | 15.118 | 15.135 | 0.0172 |
| 32 | 0 | Correlation | 15.073 | 15.074 | 0.0016 |
| 33 | 0 | Correlation | 15.43 | 15.462 | 0.0312 |
| 34 | 0 | Correlation | 15.446 | 15.348 | -0.0984 |

## Test Statistics (Ohm)
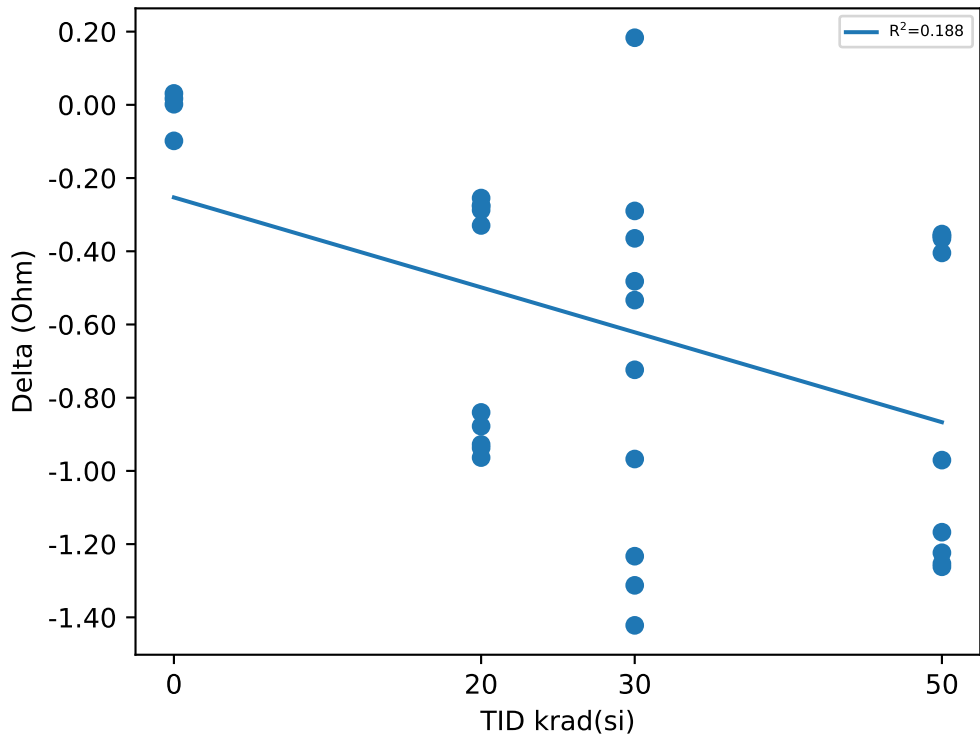
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.073 | 15.267 | 15.446 | 0.19891 | 15.074 | 15.255 | 15.462 | 0.18098 | -0.0984 | -0.0121 | 0.0312 | 0.05879 |
| 20 | 14.884 | 15.215 | 15.56 | 0.22685 | 14.006 | 14.618 | 15.013 | 0.32342 | -0.9636 | -0.59693 | -0.2546 | 0.33142 |
| 30 | 14.97 | 15.327 | 15.643 | 0.22454 | 14.054 | 14.613 | 15.153 | 0.3575 | -1.4219 | -0.71453 | 0.1833 | 0.51497 |
| 50 | 15.138 | 15.315 | 15.568 | 0.14216 | 13.931 | 14.543 | 15.163 | 0.48228 | -1.2619 | -0.77164 | -0.353 | 0.43323 |

## TID vs Result Stats
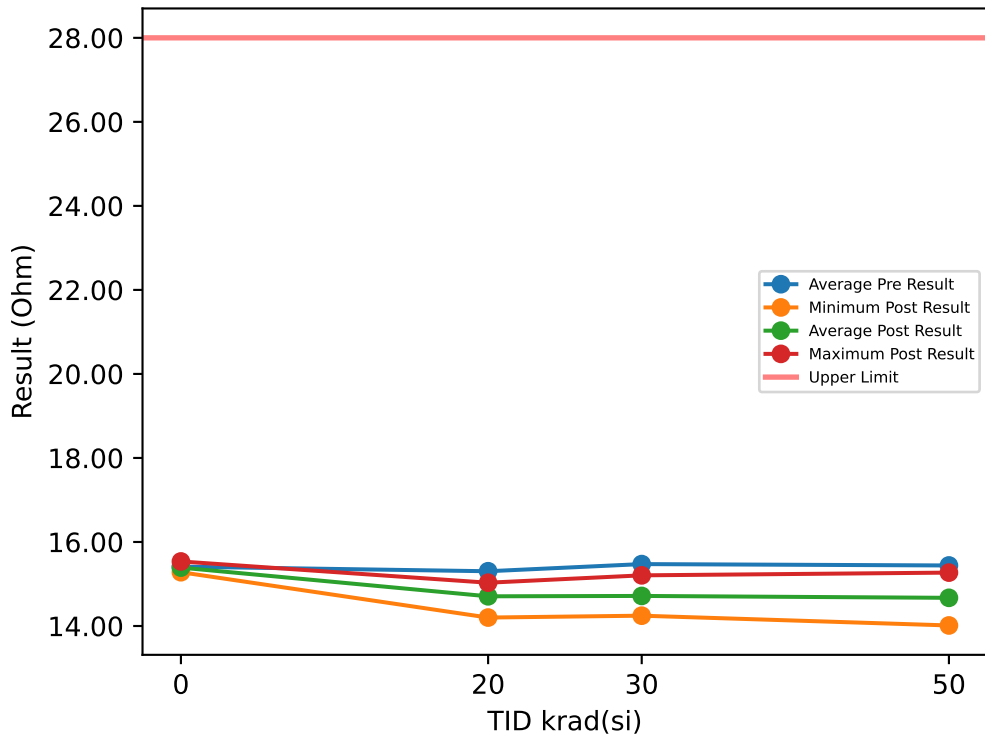


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 15.43 | 14.467 | -0.9635 |
| 2 | 20 | Bias | 15.482 | 14.538 | -0.9433 |
| 3 | 20 | Bias | 15.722 | 14.821 | -0.901 |
| 4 | 20 | Bias | 15.079 | 14.201 | -0.8777 |
| 5 | 20 | Bias | 15.171 | 14.343 | -0.8276 |
| 6 | 20 | Unbiased | 15.358 | 15.03 | -0.3279 |
| 7 | 20 | Unbiased | 15.258 | 14.969 | -0.2889 |
| 8 | 20 | Unbiased | 15.268 | 14.991 | -0.2764 |
| 9 | 20 | Unbiased | 15.11 | 14.816 | -0.2936 |
| 10 | 20 | Unbiased | 15.157 | 14.89 | -0.267 |
| 11 | 30 | Bias | 15.617 | 14.297 | -1.3203 |
| 12 | 30 | Bias | 15.719 | 14.464 | -1.2548 |
| 13 | 30 | Bias | 15.514 | 14.575 | -0.9393 |
| 14 | 30 | Bias | 15.322 | 14.388 | -0.9347 |
| 15 | 30 | Bias | 15.588 | 14.246 | -1.3422 |
| 16 | 30 | Unbiased | 15.243 | 15.206 | -0.0369 |
| 17 | 30 | Unbiased | 15.269 | 14.883 | -0.3866 |
| 18 | 30 | Unbiased | 15.436 | 14.956 | -0.4804 |
| 19 | 30 | Unbiased | 15.361 | 15.106 | -0.2555 |
| 20 | 30 | Unbiased | 15.664 | 15.036 | -0.6287 |
| 21 | 50 | Bias | 15.549 | 14.406 | -1.1423 |
| 22 | 50 | Bias | 15.469 | 14.294 | -1.1752 |
| 23 | 50 | Bias | 15.201 | 14.229 | -0.9721 |
| 24 | 50 | Bias | 15.385 | 14.013 | -1.3718 |
| 25 | 50 | Bias | 15.366 | 14.106 | -1.2602 |
| 26 | 50 | Unbiased | 15.625 | 15.271 | -0.3545 |
| 27 | 50 | Unbiased | 15.482 | 15.115 | -0.367 |
| 28 | 50 | Unbiased | 15.216 | 14.862 | -0.3545 |
| 29 | 50 | Unbiased | 15.625 | 15.271 | -0.3545 |
| 30 | 50 | Unbiased | 15.493 | 15.141 | -0.3514 |
| 31 | 0 | Correlation | 15.24 | 15.28 | 0.0406 |
| 32 | 0 | Correlation | 15.285 | 15.325 | 0.0406 |
| 33 | 0 | Correlation | 15.514 | 15.536 | 0.0219 |
| 34 | 0 | Correlation | 15.613 | 15.418 | -0.1952 |

## Test Statistics (Ohm)
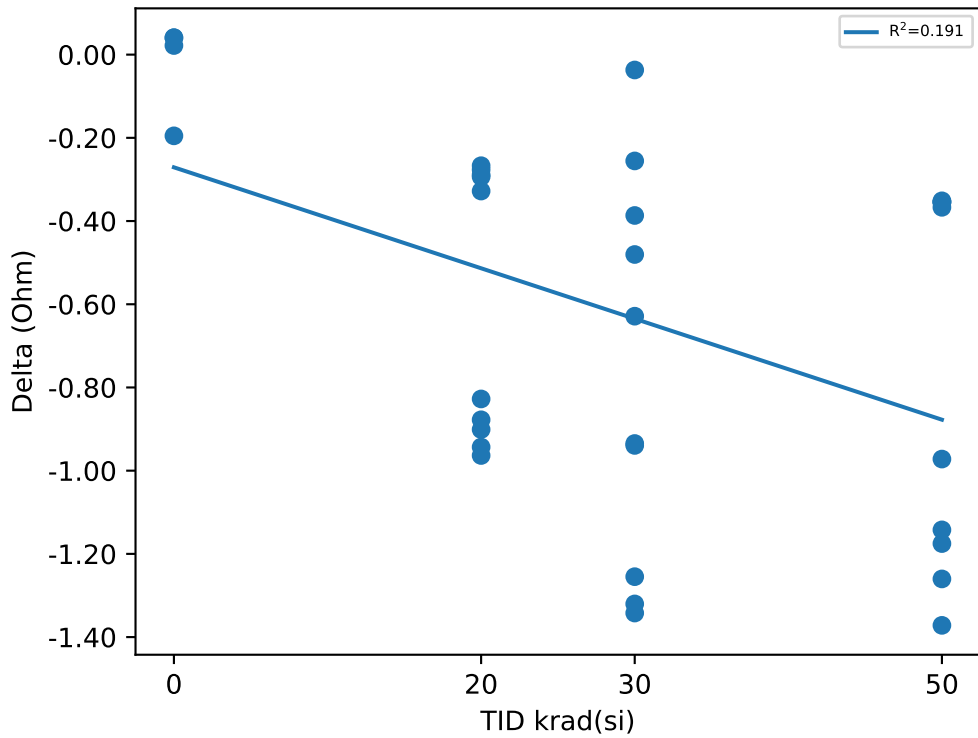
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.24 | 15.413 | 15.613 | 0.17952 | 15.28 | 15.39 | 15.536 | 0.11311 | -0.1952 | -0.023025 | 0.0406 | 0.11512 |
| 20 | 15.079 | 15.303 | 15.722 | 0.19899 | 14.201 | 14.707 | 15.03 | 0.29573 | -0.9635 | -0.59669 | -0.267 | 0.32484 |
| 30 | 15.243 | 15.474 | 15.719 | 0.17125 | 14.246 | 14.716 | 15.206 | 0.36013 | -1.3422 | -0.75794 | -0.0369 | 0.46816 |
| 50 | 15.201 | 15.441 | 15.625 | 0.14973 | 14.013 | 14.671 | 15.271 | 0.50925 | -1.3718 | -0.77035 | -0.3514 | 0.44742 |
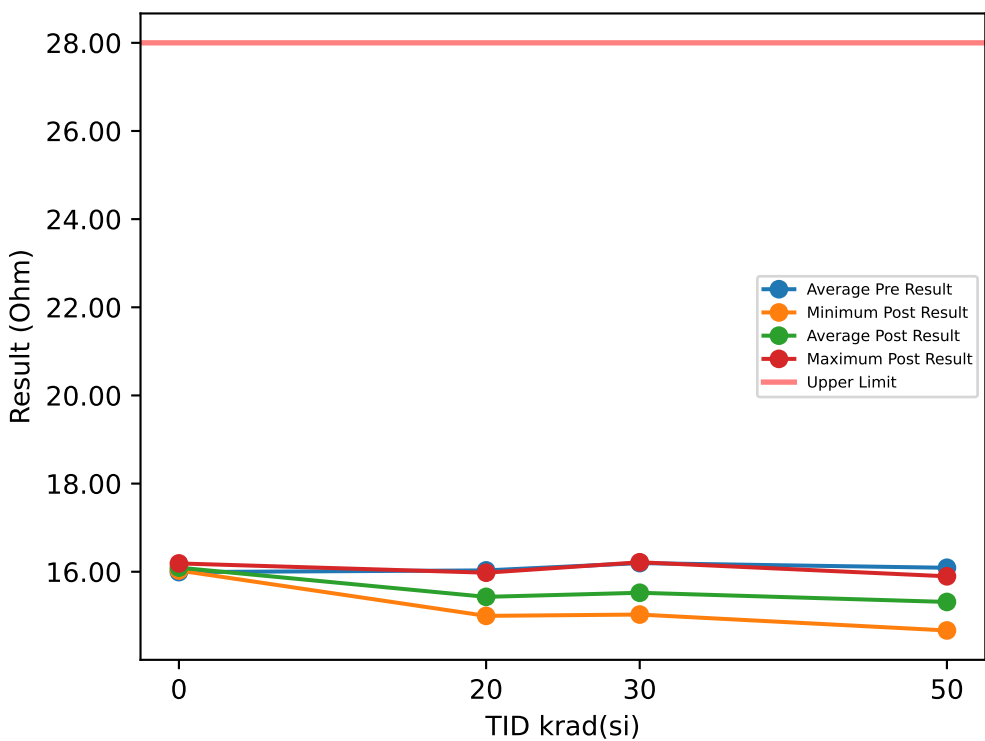
# Device Test: 20.43  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN1/7/14/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 15.961 | 14.999 | -0.9618 |
| 2 | 20 | Bias | 16.006 | 15.074 | -0.9322 |
| 3 | 20 | Bias | 16.179 | 15.266 | -0.9134 |
| 4 | 20 | Bias | 15.886 | 15.002 | -0.8837 |
| 5 | 20 | Bias | 16.056 | 15.186 | -0.8697 |
| 6 | 20 | Unbiased | 16.184 | 15.842 | -0.342 |
| 7 | 20 | Unbiased | 16.169 | 15.869 | -0.2998 |
| 8 | 20 | Unbiased | 15.623 | 15.344 | -0.2795 |
| 9 | 20 | Unbiased | 16.026 | 15.742 | -0.2842 |
| 10 | 20 | Unbiased | 16.215 | 15.978 | -0.2373 |
| 11 | 30 | Bias | 16.292 | 15.055 | -1.2365 |
| 12 | 30 | Bias | 16.293 | 15.174 | -1.1195 |
| 13 | 30 | Bias | 16.203 | 15.207 | -0.9961 |
| 14 | 30 | Bias | 16.139 | 15.105 | -1.0336 |
| 15 | 30 | Bias | 16.521 | 15.029 | -1.4926 |
| 16 | 30 | Unbiased | 16.106 | 16.215 | 0.1091 |
| 17 | 30 | Unbiased | 15.945 | 15.803 | -0.1422 |
| 18 | 30 | Unbiased | 16.136 | 15.686 | -0.4498 |
| 19 | 30 | Unbiased | 16.409 | 15.841 | -0.5684 |
| 20 | 30 | Unbiased | 15.915 | 16.117 | 0.2013 |
| 21 | 50 | Bias | 16.059 | 14.787 | -1.2724 |
| 22 | 50 | Bias | 16.111 | 14.915 | -1.1959 |
| 23 | 50 | Bias | 16.176 | 14.935 | -1.2412 |
| 24 | 50 | Bias | 16.031 | 14.98 | -1.0508 |
| 25 | 50 | Bias | 15.926 | 14.668 | -1.2585 |
| 26 | 50 | Unbiased | 16.025 | 15.695 | -0.3294 |
| 27 | 50 | Unbiased | 15.978 | 15.631 | -0.3467 |
| 28 | 50 | Unbiased | 16.24 | 15.872 | -0.3685 |
| 29 | 50 | Unbiased | 16.228 | 15.897 | -0.331 |
| 30 | 50 | Unbiased | 16.128 | 15.764 | -0.3638 |
| 31 | 0 | Correlation | 16.17 | 16.189 | 0.0188 |
| 32 | 0 | Correlation | 16.026 | 16.028 | 0.0015 |
| 33 | 0 | Correlation | 15.992 | 16.037 | 0.0453 |
| 34 | 0 | Correlation | 15.78 | 16.12 | 0.3404 |

## Test Statistics (Ohm)
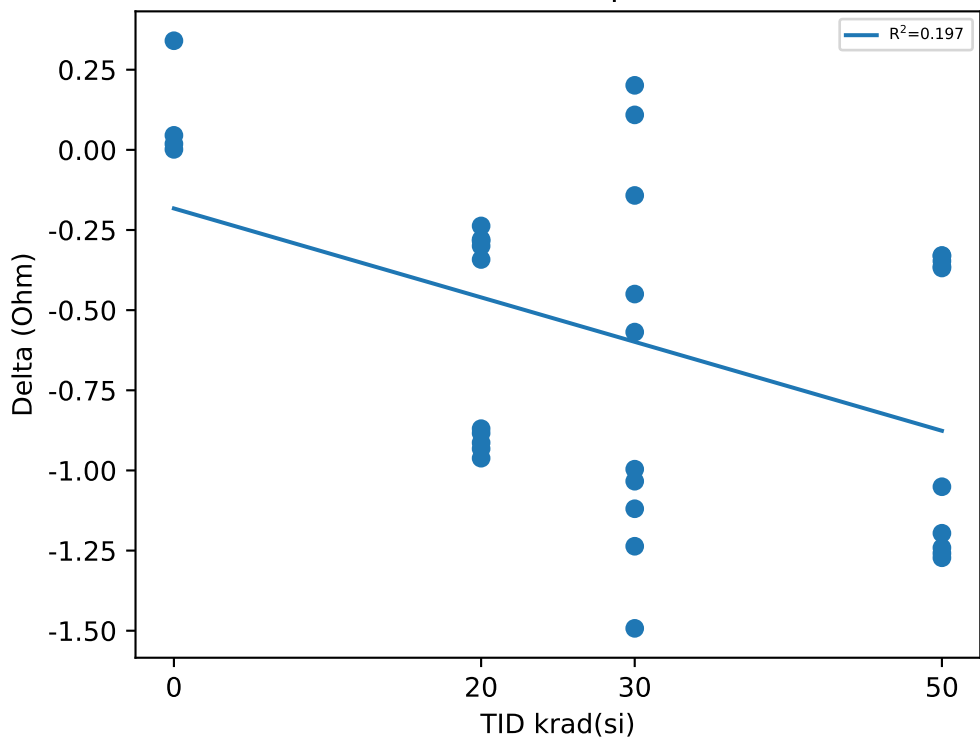
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.78 | 15.992 | 16.17 | 0.16118 | 16.028 | 16.094 | 16.189 | 0.075832 | 0.0015 | 0.1015 | 0.3404 | 0.16028 |
| 20 | 15.623 | 16.031 | 16.215 | 0.18002 | 14.999 | 15.43 | 15.978 | 0.38721 | -0.9618 | -0.60036 | -0.2373 | 0.33055 |
| 30 | 15.915 | 16.196 | 16.521 | 0.19045 | 15.029 | 15.523 | 16.215 | 0.45909 | -1.4926 | -0.67283 | 0.2013 | 0.59082 |
| 50 | 15.926 | 16.09 | 16.24 | 0.10481 | 14.668 | 15.314 | 15.897 | 0.49545 | -1.2724 | -0.77582 | -0.3294 | 0.45524 |
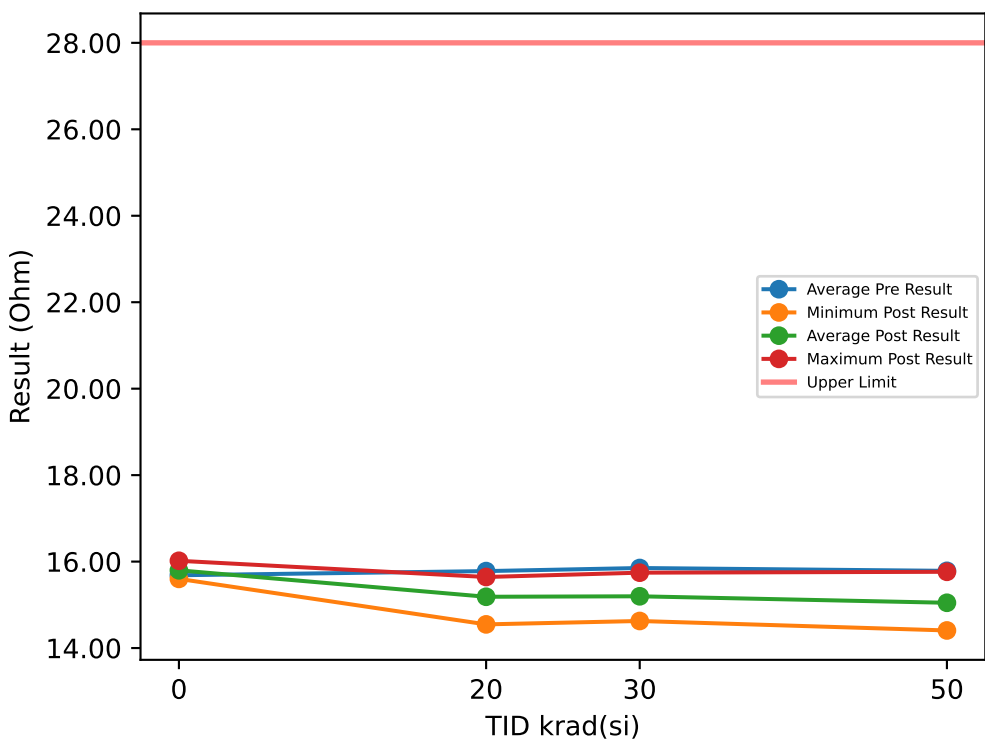
# Device Test: 20.44  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN2/7/14/0/0/2/@EN_RNMOS_LOW_V )



### TID vs Result Stats

### TID vs Post - Pre Exposure Delta

### Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 15.876 | 14.93 | -0.9463 |
| 2 | 20 | Bias | 15.897 | 14.966 | -0.9307 |
| 3 | 20 | Bias | 16.073 | 15.171 | -0.9025 |
| 4 | 20 | Bias | 15.389 | 14.548 | -0.8416 |
| 5 | 20 | Bias | 15.714 | 14.864 | -0.8495 |
| 6 | 20 | Unbiased | 15.926 | 15.575 | -0.3513 |
| 7 | 20 | Unbiased | 15.917 | 15.644 | -0.2733 |
| 8 | 20 | Unbiased | 15.936 | 15.634 | -0.3014 |
| 9 | 20 | Unbiased | 15.53 | 15.261 | -0.2686 |
| 10 | 20 | Unbiased | 15.544 | 15.272 | -0.2717 |
| 11 | 30 | Bias | 16.042 | 14.943 | -1.099 |
| 12 | 30 | Bias | 16.201 | 14.957 | -1.2443 |
| 13 | 30 | Bias | 16.131 | 15.141 | -0.9898 |
| 14 | 30 | Bias | 15.698 | 14.998 | -0.7009 |
| 15 | 30 | Bias | 16.037 | 14.626 | -1.4112 |
| 16 | 30 | Unbiased | 15.583 | 15.744 | 0.1608 |
| 17 | 30 | Unbiased | 15.522 | 15.297 | -0.2247 |
| 18 | 30 | Unbiased | 15.637 | 15.283 | -0.3543 |
| 19 | 30 | Unbiased | 15.873 | 15.371 | -0.5026 |
| 20 | 30 | Unbiased | 15.79 | 15.614 | -0.1764 |
| 21 | 50 | Bias | 15.8 | 14.635 | -1.1645 |
| 22 | 50 | Bias | 15.805 | 14.643 | -1.1613 |
| 23 | 50 | Bias | 15.553 | 14.651 | -0.9021 |
| 24 | 50 | Bias | 15.653 | 14.456 | -1.1972 |
| 25 | 50 | Bias | 15.633 | 14.407 | -1.2258 |
| 26 | 50 | Unbiased | 15.826 | 15.489 | -0.3373 |
| 27 | 50 | Unbiased | 15.811 | 15.455 | -0.356 |
| 28 | 50 | Unbiased | 15.647 | 15.292 | -0.3544 |
| 29 | 50 | Unbiased | 16.103 | 15.764 | -0.3389 |
| 30 | 50 | Unbiased | 16.031 | 15.681 | -0.3498 |
| 31 | 0 | Correlation | 15.617 | 15.622 | 0.0046 |
| 32 | 0 | Correlation | 15.594 | 15.6 | 0.0063 |
| 33 | 0 | Correlation | 15.945 | 15.953 | 0.0078 |
| 34 | 0 | Correlation | 15.58 | 16.018 | 0.4388 |

### Test Statistics (Ohm)
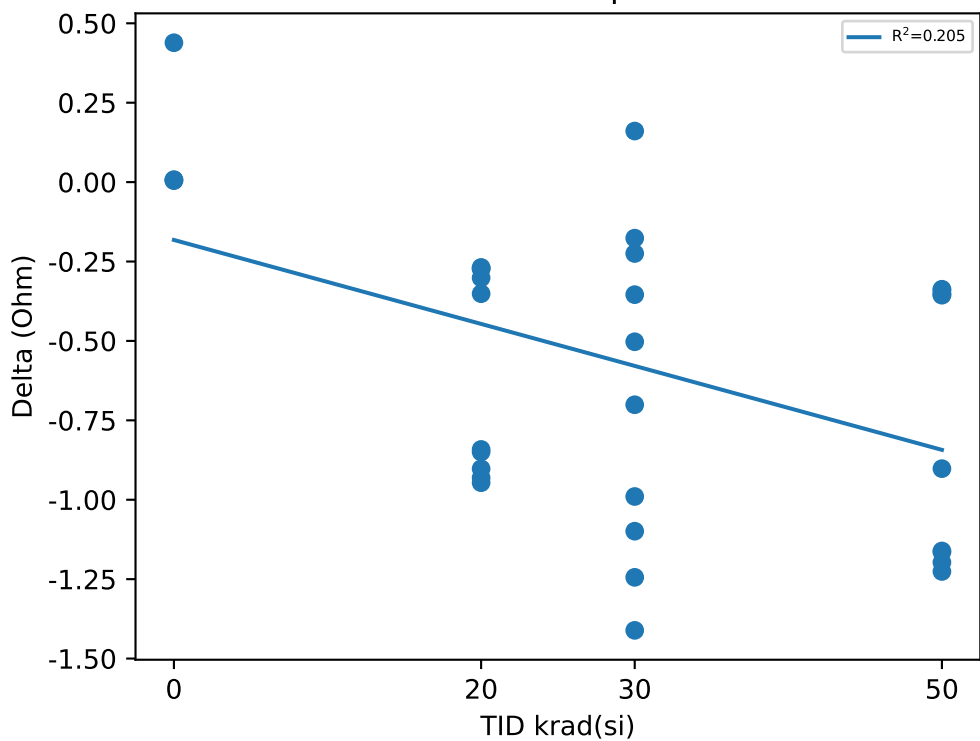
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.58 | 15.684 | 15.945 | 0.1748 | 15.6 | 15.798 | 16.018 | 0.21822 | 0.0046 | 0.11437 | 0.4388 | 0.21629 |
| 20 | 15.389 | 15.78 | 16.073 | 0.2233 | 14.548 | 15.187 | 15.644 | 0.36513 | -0.9463 | -0.59369 | -0.2686 | 0.31909 |
| 30 | 15.522 | 15.852 | 16.201 | 0.2416 | 14.626 | 15.197 | 15.744 | 0.33525 | -1.4112 | -0.65424 | 0.1608 | 0.51896 |
| 50 | 15.553 | 15.786 | 16.103 | 0.17573 | 14.407 | 15.047 | 15.764 | 0.53608 | -1.2258 | -0.73873 | -0.3373 | 0.42169 |
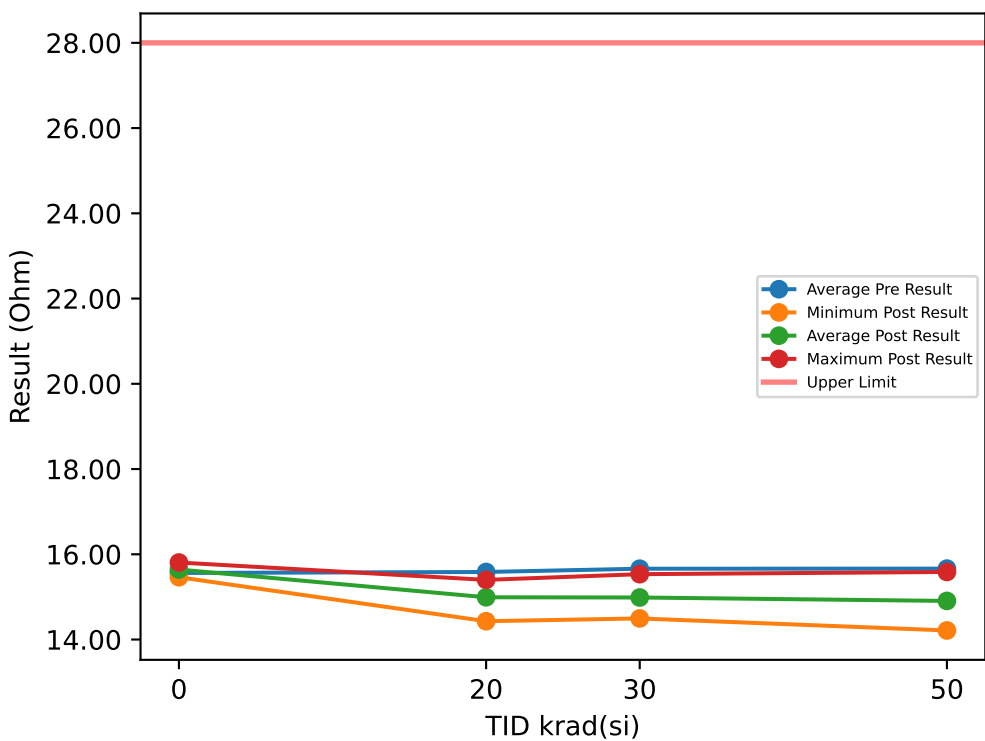
# Device Test: 20.45  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN3/7/14/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 15.682 | 14.729 | -0.9524 |
| 2 | 20 | Bias | 15.777 | 14.858 | -0.9196 |
| 3 | 20 | Bias | 15.866 | 14.934 | -0.9321 |
| 4 | 20 | Bias | 15.278 | 14.43 | -0.8479 |
| 5 | 20 | Bias | 15.493 | 14.652 | -0.8415 |
| 6 | 20 | Unbiased | 15.655 | 15.312 | -0.3435 |
| 7 | 20 | Unbiased | 15.643 | 15.384 | -0.2592 |
| 8 | 20 | Unbiased | 15.73 | 15.399 | -0.331 |
| 9 | 20 | Unbiased | 15.357 | 15.098 | -0.2592 |
| 10 | 20 | Unbiased | 15.363 | 15.118 | -0.2451 |
| 11 | 30 | Bias | 15.899 | 14.714 | -1.1854 |
| 12 | 30 | Bias | 15.964 | 14.778 | -1.1869 |
| 13 | 30 | Bias | 15.86 | 14.879 | -0.9808 |
| 14 | 30 | Bias | 15.565 | 14.739 | -0.8262 |
| 15 | 30 | Bias | 15.835 | 14.495 | -1.3399 |
| 16 | 30 | Unbiased | 15.409 | 15.533 | 0.1245 |
| 17 | 30 | Unbiased | 15.342 | 15.113 | -0.2283 |
| 18 | 30 | Unbiased | 15.434 | 15.081 | -0.3532 |
| 19 | 30 | Unbiased | 15.638 | 15.152 | -0.4859 |
| 20 | 30 | Unbiased | 15.669 | 15.377 | -0.2923 |
| 21 | 50 | Bias | 15.684 | 14.509 | -1.1744 |
| 22 | 50 | Bias | 15.733 | 14.512 | -1.2213 |
| 23 | 50 | Bias | 15.384 | 14.525 | -0.859 |
| 24 | 50 | Bias | 15.618 | 14.283 | -1.3352 |
| 25 | 50 | Bias | 15.438 | 14.213 | -1.2257 |
| 26 | 50 | Unbiased | 15.737 | 15.39 | -0.3466 |
| 27 | 50 | Unbiased | 15.783 | 15.421 | -0.3622 |
| 28 | 50 | Unbiased | 15.516 | 15.179 | -0.3372 |
| 29 | 50 | Unbiased | 15.943 | 15.585 | -0.3576 |
| 30 | 50 | Unbiased | 15.796 | 15.44 | -0.356 |
| 31 | 0 | Correlation | 15.429 | 15.462 | 0.0328 |
| 32 | 0 | Correlation | 15.496 | 15.496 | 0 |
| 33 | 0 | Correlation | 15.797 | 15.807 | 0.0093 |
| 34 | 0 | Correlation | 15.526 | 15.802 | 0.2764 |

## Test Statistics (Ohm)
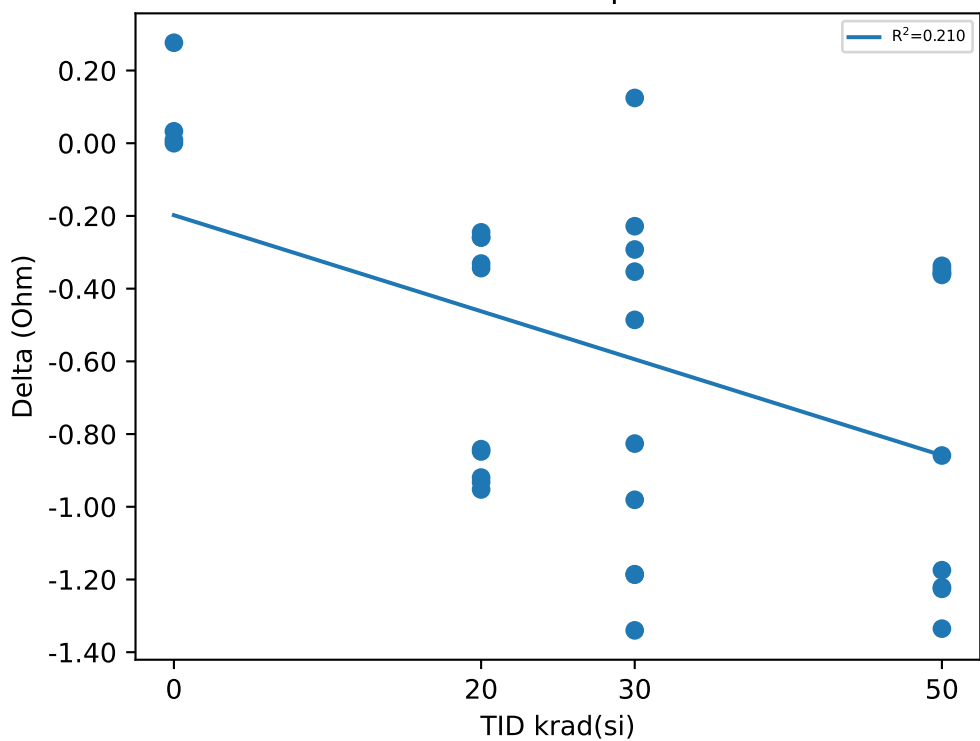
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.429 | 15.562 | 15.797 | 0.16207 | 15.462 | 15.642 | 15.807 | 0.18849 | 0 | 0.079625 | 0.2764 | 0.13191 |
| 20 | 15.278 | 15.585 | 15.866 | 0.19966 | 14.43 | 14.991 | 15.399 | 0.32851 | -0.9524 | -0.59315 | -0.2451 | 0.32529 |
| 30 | 15.342 | 15.661 | 15.964 | 0.22255 | 14.495 | 14.986 | 15.533 | 0.32258 | -1.3399 | -0.67544 | 0.1245 | 0.49503 |
| 50 | 15.384 | 15.663 | 15.943 | 0.17422 | 14.213 | 14.906 | 15.585 | 0.54239 | -1.3352 | -0.75752 | -0.3372 | 0.4441 |
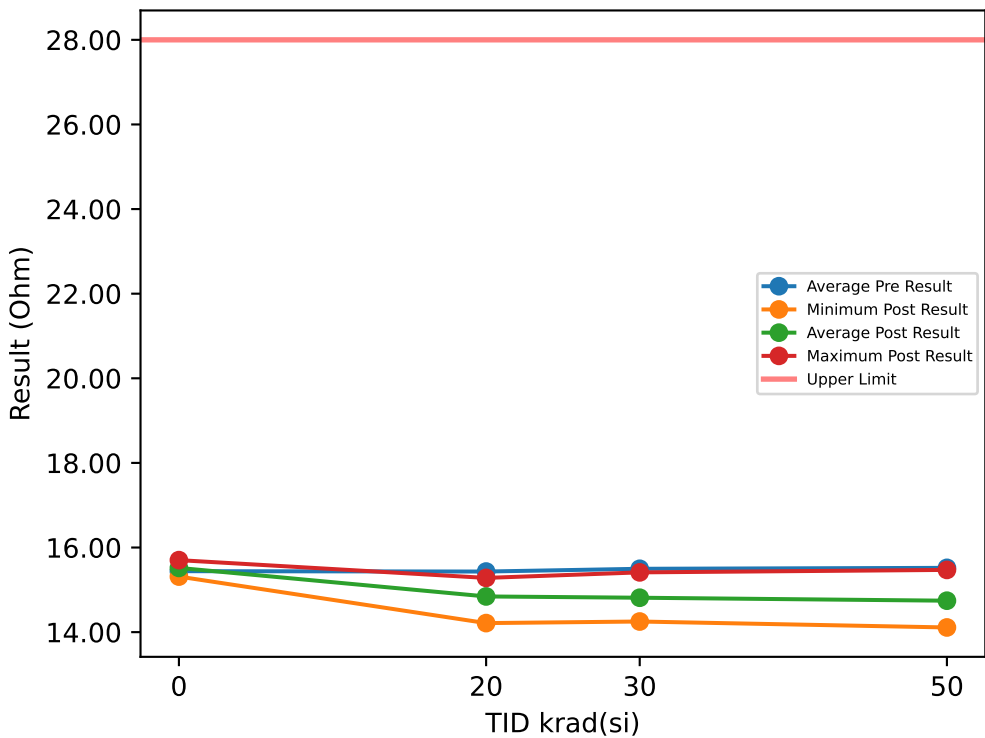
# Device Test: 20.46  EN_RNMOS_LOW_V(_RESISTANCE|SOURCE/EN4/7/14/0/0/2/@EN_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 15.552 | 14.601 | -0.951 |
| 2 | 20 | Bias | 15.602 | 14.659 | -0.9432 |
| 3 | 20 | Bias | 15.674 | 14.759 | -0.915 |
| 4 | 20 | Bias | 15.063 | 14.214 | -0.8494 |
| 5 | 20 | Bias | 15.421 | 14.606 | -0.8151 |
| 6 | 20 | Unbiased | 15.589 | 15.252 | -0.3373 |
| 7 | 20 | Unbiased | 15.558 | 15.282 | -0.2763 |
| 8 | 20 | Unbiased | 15.488 | 15.201 | -0.2873 |
| 9 | 20 | Unbiased | 15.166 | 14.904 | -0.2623 |
| 10 | 20 | Unbiased | 15.21 | 14.96 | -0.2498 |
| 11 | 30 | Bias | 15.741 | 14.523 | -1.2181 |
| 12 | 30 | Bias | 15.86 | 14.64 | -1.2197 |
| 13 | 30 | Bias | 15.733 | 14.733 | -0.9996 |
| 14 | 30 | Bias | 15.318 | 14.593 | -0.7247 |
| 15 | 30 | Bias | 15.73 | 14.251 | -1.4788 |
| 16 | 30 | Unbiased | 15.233 | 15.413 | 0.1791 |
| 17 | 30 | Unbiased | 15.113 | 14.947 | -0.1658 |
| 18 | 30 | Unbiased | 15.199 | 14.84 | -0.3594 |
| 19 | 30 | Unbiased | 15.538 | 14.941 | -0.5967 |
| 20 | 30 | Unbiased | 15.508 | 15.252 | -0.2565 |
| 21 | 50 | Bias | 15.555 | 14.335 | -1.2196 |
| 22 | 50 | Bias | 15.554 | 14.365 | -1.1885 |
| 23 | 50 | Bias | 15.237 | 14.342 | -0.8949 |
| 24 | 50 | Bias | 15.471 | 14.111 | -1.3601 |
| 25 | 50 | Bias | 15.43 | 14.164 | -1.2664 |
| 26 | 50 | Unbiased | 15.521 | 15.163 | -0.3576 |
| 27 | 50 | Unbiased | 15.536 | 15.162 | -0.3748 |
| 28 | 50 | Unbiased | 15.43 | 15.066 | -0.3638 |
| 29 | 50 | Unbiased | 15.838 | 15.471 | -0.367 |
| 30 | 50 | Unbiased | 15.622 | 15.254 | -0.3685 |
| 31 | 0 | Correlation | 15.302 | 15.313 | 0.0109 |
| 32 | 0 | Correlation | 15.405 | 15.427 | 0.0219 |
| 33 | 0 | Correlation | 15.647 | 15.702 | 0.0546 |
| 34 | 0 | Correlation | 15.41 | 15.63 | 0.2202 |

## Test Statistics (Ohm)
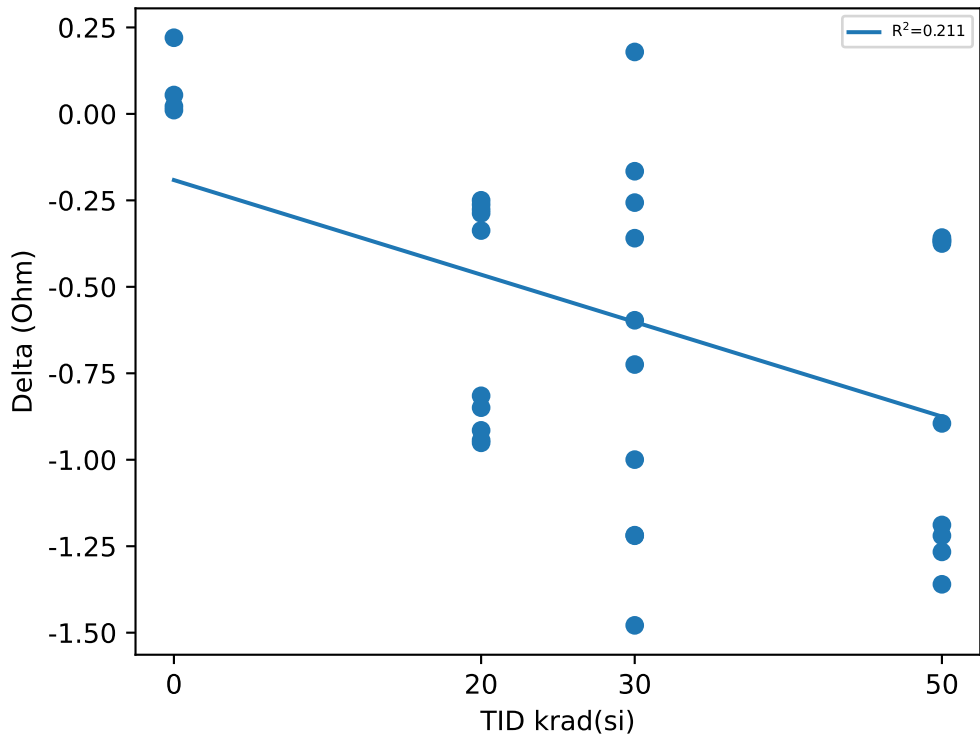
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.302 | 15.441 | 15.647 | 0.14614 | 15.313 | 15.518 | 15.702 | 0.17947 | 0.0109 | 0.0769 | 0.2202 | 0.097319 |
| 20 | 15.063 | 15.432 | 15.674 | 0.21125 | 14.214 | 14.844 | 15.282 | 0.34274 | -0.951 | -0.58867 | -0.2498 | 0.32586 |
| 30 | 15.113 | 15.497 | 15.86 | 0.26675 | 14.251 | 14.813 | 15.413 | 0.34508 | -1.4788 | -0.68402 | 0.1791 | 0.53897 |
| 50 | 15.237 | 15.519 | 15.838 | 0.15382 | 14.111 | 14.743 | 15.471 | 0.52198 | -1.3601 | -0.77612 | -0.3576 | 0.44746 |
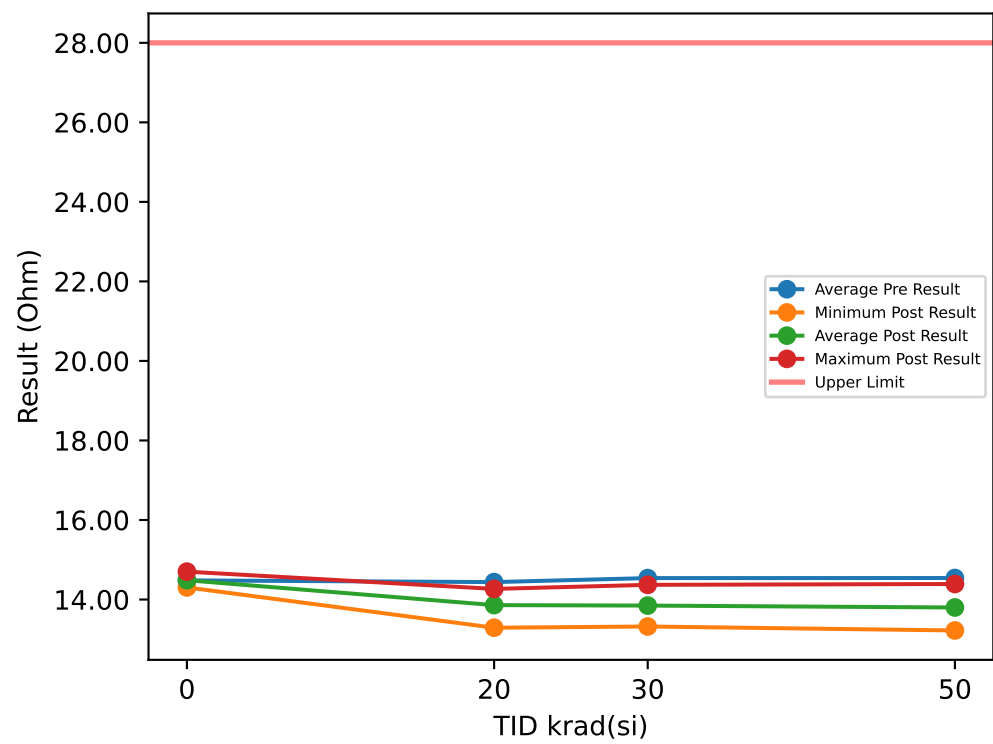
# Device Test: 20.47 PWRGD_RNMOS_LOW_V(_RESISTANCE|SINK/PWRGD/7/14/0/0/2/@PWRGD_RNMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 14.612 | 13.641 | -0.9714 |
| 2 | 20 | Bias | 14.637 | 13.725 | -0.9121 |
| 3 | 20 | Bias | 14.718 | 13.826 | -0.8918 |
| 4 | 20 | Bias | 14.147 | 13.291 | -0.8559 |
| 5 | 20 | Bias | 14.418 | 13.601 | -0.8169 |
| 6 | 20 | Unbiased | 14.517 | 14.19 | -0.3264 |
| 7 | 20 | Unbiased | 14.52 | 14.267 | -0.253 |
| 8 | 20 | Unbiased | 14.468 | 14.175 | -0.2936 |
| 9 | 20 | Unbiased | 14.173 | 13.928 | -0.2452 |
| 10 | 20 | Unbiased | 14.172 | 13.951 | -0.2202 |
| 11 | 30 | Bias | 14.635 | 13.496 | -1.139 |
| 12 | 30 | Bias | 14.838 | 13.567 | -1.2719 |
| 13 | 30 | Bias | 14.717 | 13.738 | -0.9783 |
| 14 | 30 | Bias | 14.373 | 13.615 | -0.7581 |
| 15 | 30 | Bias | 14.657 | 13.322 | -1.3358 |
| 16 | 30 | Unbiased | 14.256 | 14.369 | 0.1133 |
| 17 | 30 | Unbiased | 14.267 | 13.937 | -0.3302 |
| 18 | 30 | Unbiased | 14.462 | 13.974 | -0.488 |
| 19 | 30 | Unbiased | 14.518 | 14.197 | -0.3209 |
| 20 | 30 | Unbiased | 14.665 | 14.261 | -0.4037 |
| 21 | 50 | Bias | 14.621 | 13.471 | -1.15 |
| 22 | 50 | Bias | 14.635 | 13.423 | -1.2124 |
| 23 | 50 | Bias | 14.378 | 13.44 | -0.9376 |
| 24 | 50 | Bias | 14.447 | 13.234 | -1.2125 |
| 25 | 50 | Bias | 14.457 | 13.222 | -1.2354 |
| 26 | 50 | Unbiased | 14.456 | 14.148 | -0.3076 |
| 27 | 50 | Unbiased | 14.604 | 14.251 | -0.353 |
| 28 | 50 | Unbiased | 14.417 | 14.09 | -0.3264 |
| 29 | 50 | Unbiased | 14.742 | 14.39 | -0.3514 |
| 30 | 50 | Unbiased | 14.651 | 14.326 | -0.3249 |
| 31 | 0 | Correlation | 14.339 | 14.361 | 0.0219 |
| 32 | 0 | Correlation | 14.293 | 14.304 | 0.0109 |
| 33 | 0 | Correlation | 14.668 | 14.701 | 0.0328 |
| 34 | 0 | Correlation | 14.624 | 14.573 | -0.0515 |

## Test Statistics (Ohm)
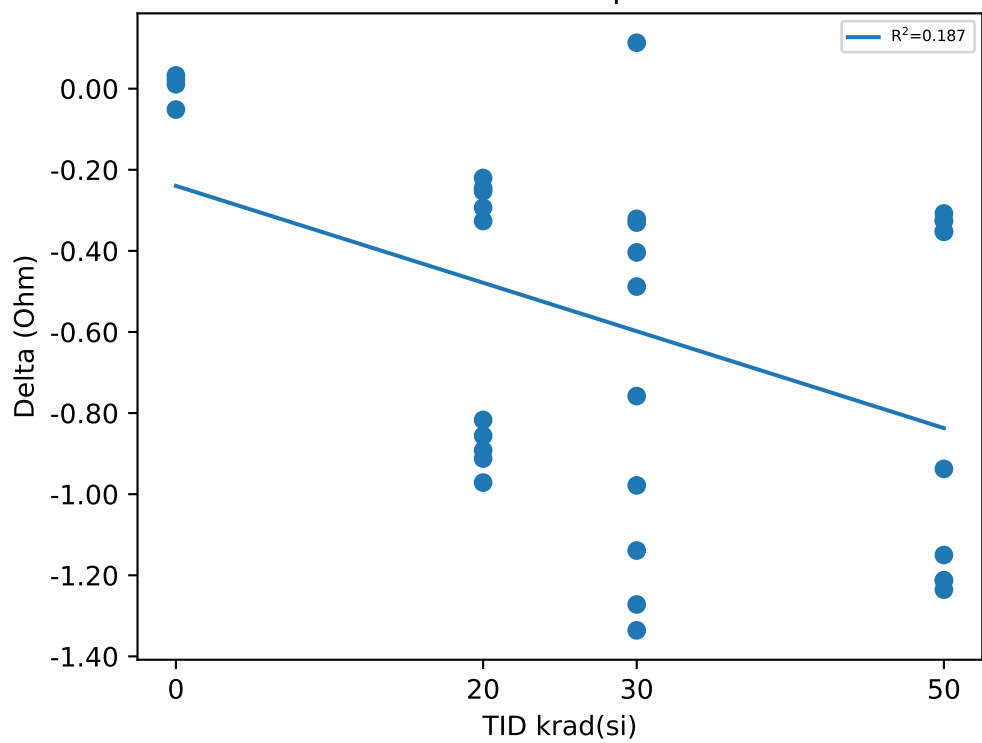
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 14.293 | 14.481 | 14.668 | 0.19242 | 14.304 | 14.485 | 14.701 | 0.18487 | -0.0515 | 0.003525 | 0.0328 | 0.037757 |
| 20 | 14.147 | 14.438 | 14.718 | 0.20779 | 13.291 | 13.86 | 14.267 | 0.30643 | -0.9714 | -0.57865 | -0.2202 | 0.33128 |
| 30 | 14.256 | 14.539 | 14.838 | 0.19678 | 13.322 | 13.848 | 14.369 | 0.35508 | -1.3358 | -0.69126 | 0.1133 | 0.4806 |
| 50 | 14.378 | 14.541 | 14.742 | 0.12338 | 13.222 | 13.8 | 14.39 | 0.4794 | -1.2354 | -0.74112 | -0.3076 | 0.43844 |

## TID vs Result Stats
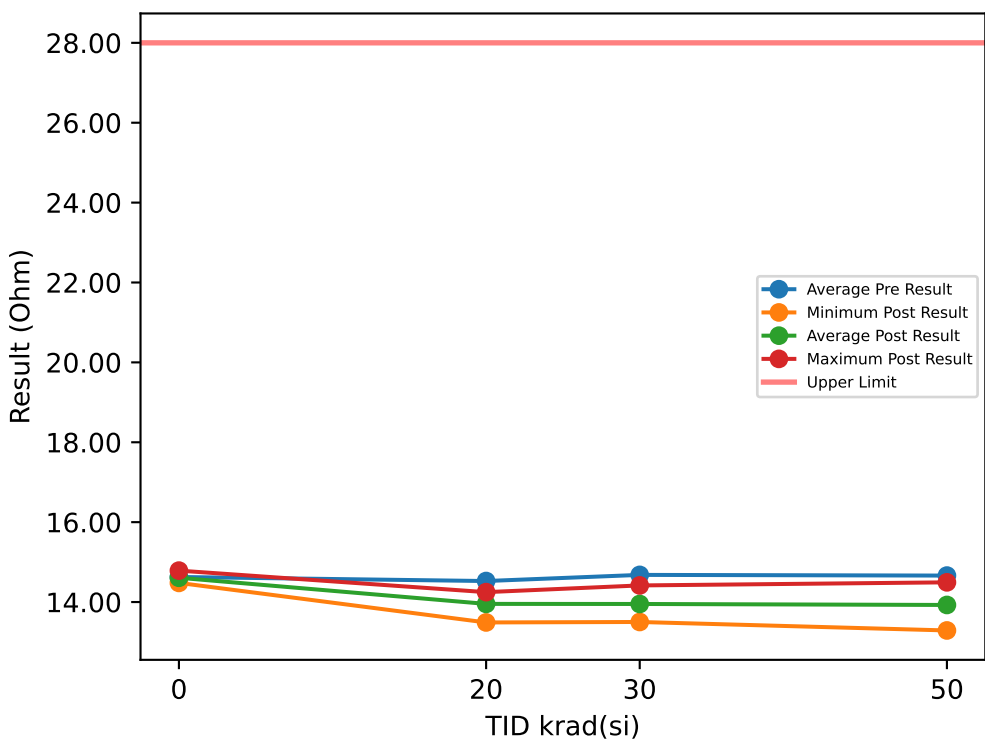


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 28.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 14.666 | 13.714 | -0.9526 |
| 2 | 20 | Bias | 14.687 | 13.784 | -0.9026 |
| 3 | 20 | Bias | 14.904 | 13.99 | -0.9136 |
| 4 | 20 | Bias | 14.345 | 13.489 | -0.8557 |
| 5 | 20 | Bias | 14.367 | 13.609 | -0.7574 |
| 6 | 20 | Unbiased | 14.543 | 14.239 | -0.3045 |
| 7 | 20 | Unbiased | 14.535 | 14.248 | -0.2873 |
| 8 | 20 | Unbiased | 14.477 | 14.207 | -0.2701 |
| 9 | 20 | Unbiased | 14.309 | 14.076 | -0.2327 |
| 10 | 20 | Unbiased | 14.426 | 14.181 | -0.2452 |
| 11 | 30 | Bias | 14.776 | 13.543 | -1.2327 |
| 12 | 30 | Bias | 14.905 | 13.684 | -1.2218 |
| 13 | 30 | Bias | 14.706 | 13.804 | -0.9017 |
| 14 | 30 | Bias | 14.57 | 13.601 | -0.9689 |
| 15 | 30 | Bias | 14.754 | 13.501 | -1.253 |
| 16 | 30 | Unbiased | 14.49 | 14.416 | -0.0742 |
| 17 | 30 | Unbiased | 14.501 | 14.152 | -0.349 |
| 18 | 30 | Unbiased | 14.642 | 14.175 | -0.4661 |
| 19 | 30 | Unbiased | 14.61 | 14.333 | -0.2772 |
| 20 | 30 | Unbiased | 14.843 | 14.308 | -0.5349 |
| 21 | 50 | Bias | 14.726 | 13.652 | -1.0735 |
| 22 | 50 | Bias | 14.701 | 13.509 | -1.1922 |
| 23 | 50 | Bias | 14.435 | 13.504 | -0.9314 |
| 24 | 50 | Bias | 14.598 | 13.289 | -1.3092 |
| 25 | 50 | Bias | 14.62 | 13.383 | -1.2368 |
| 26 | 50 | Unbiased | 14.816 | 14.492 | -0.3248 |
| 27 | 50 | Unbiased | 14.73 | 14.399 | -0.331 |
| 28 | 50 | Unbiased | 14.462 | 14.142 | -0.3201 |
| 29 | 50 | Unbiased | 14.812 | 14.493 | -0.3185 |
| 30 | 50 | Unbiased | 14.726 | 14.407 | -0.3185 |
| 31 | 0 | Correlation | 14.46 | 14.479 | 0.0187 |
| 32 | 0 | Correlation | 14.521 | 14.532 | 0.0109 |
| 33 | 0 | Correlation | 14.759 | 14.787 | 0.0281 |
| 34 | 0 | Correlation | 14.77 | 14.632 | -0.1375 |

## Test Statistics (Ohm)
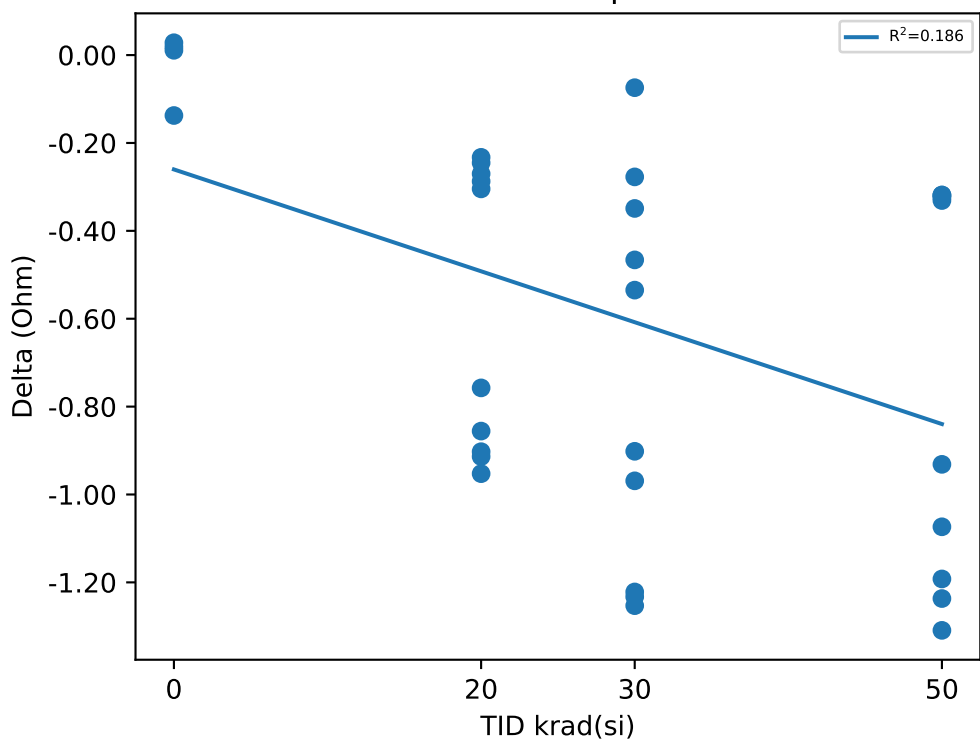
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 14.46 | 14.627 | 14.77 | 0.15977 | 14.479 | 14.608 | 14.787 | 0.13525 | -0.1375 | -0.01995 | 0.0281 | 0.078682 |
| 20 | 14.309 | 14.526 | 14.904 | 0.18454 | 13.489 | 13.954 | 14.248 | 0.28299 | -0.9526 | -0.57217 | -0.2327 | 0.32513 |
| 30 | 14.49 | 14.68 | 14.905 | 0.14115 | 13.501 | 13.952 | 14.416 | 0.3598 | -1.253 | -0.72795 | -0.0742 | 0.44002 |
| 50 | 14.435 | 14.663 | 14.816 | 0.13245 | 13.289 | 13.927 | 14.493 | 0.50248 | -1.3092 | -0.7356 | -0.3185 | 0.4465 |
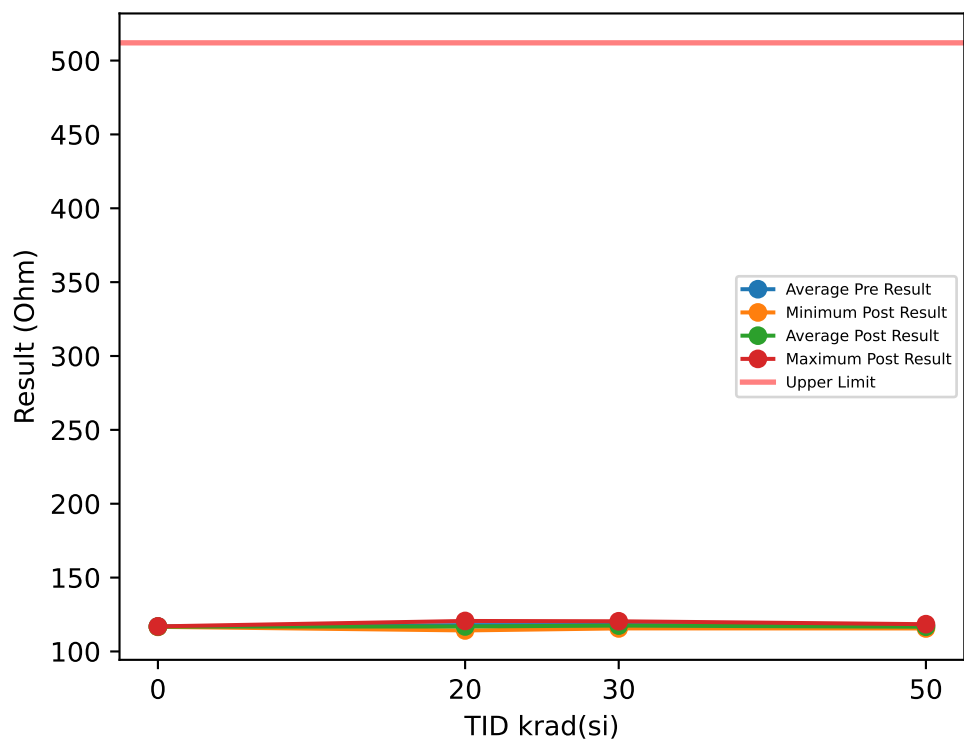
# Device Test: 20.49  SR_FAULT_RPD(_RESISTANCE|PULLDOWN/SR_FAULTb/3.3/3/0/0/0.001/@SR_FAULT_RPD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 512.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 121.55 | 120.24 | -1.3117 |
| 2 | 20 | Bias | 120.71 | 119.65 | -1.0618 |
| 3 | 20 | Bias | 121.11 | 120.65 | -0.4685 |
| 4 | 20 | Bias | 116.24 | 115.18 | -1.0618 |
| 5 | 20 | Bias | 116.02 | 115.09 | -0.9369 |
| 6 | 20 | Unbiased | 116.3 | 115.65 | -0.6558 |
| 7 | 20 | Unbiased | 116.46 | 115.93 | -0.5309 |
| 8 | 20 | Unbiased | 117.83 | 116.87 | -0.9681 |
| 9 | 20 | Unbiased | 116.55 | 115.65 | -0.9057 |
| 10 | 20 | Unbiased | 115.49 | 114.21 | -1.2804 |
| 11 | 30 | Bias | 121.24 | 116.02 | -5.2154 |
| 12 | 30 | Bias | 117.59 | 120.24 | 2.6537 |
| 13 | 30 | Bias | 117.46 | 117.09 | -0.3751 |
| 14 | 30 | Bias | 117.43 | 116.93 | -0.5 |
| 15 | 30 | Bias | 121.11 | 116.43 | -4.6846 |
| 16 | 30 | Unbiased | 115.81 | 120.43 | 4.621 |
| 17 | 30 | Unbiased | 116.55 | 115.59 | -0.9682 |
| 18 | 30 | Unbiased | 117.05 | 116.71 | -0.3437 |
| 19 | 30 | Unbiased | 118.05 | 117.27 | -0.781 |
| 20 | 30 | Unbiased | 116.59 | 118.4 | 1.8108 |
| 21 | 50 | Bias | 116.52 | 116.9 | 0.3745 |
| 22 | 50 | Bias | 118.74 | 116.27 | -2.4673 |
| 23 | 50 | Bias | 116.43 | 118.46 | 2.0294 |
| 24 | 50 | Bias | 119.43 | 115.71 | -3.7163 |
| 25 | 50 | Bias | 116.46 | 115.96 | -0.4997 |
| 26 | 50 | Unbiased | 119.15 | 118.4 | -0.7494 |
| 27 | 50 | Unbiased | 117.12 | 116.84 | -0.2811 |
| 28 | 50 | Unbiased | 117.02 | 116.52 | -0.4997 |
| 29 | 50 | Unbiased | 117.21 | 116.71 | -0.4997 |
| 30 | 50 | Unbiased | 115.96 | 115.56 | -0.406 |
| 31 | 0 | Correlation | 116.65 | 116.65 | 0 |
| 32 | 0 | Correlation | 117.24 | 116.96 | -0.2811 |
| 33 | 0 | Correlation | 116.62 | 116.74 | 0.1249 |
| 34 | 0 | Correlation | 116.8 | 116.93 | 0.1249 |

## Test Statistics (Ohm)
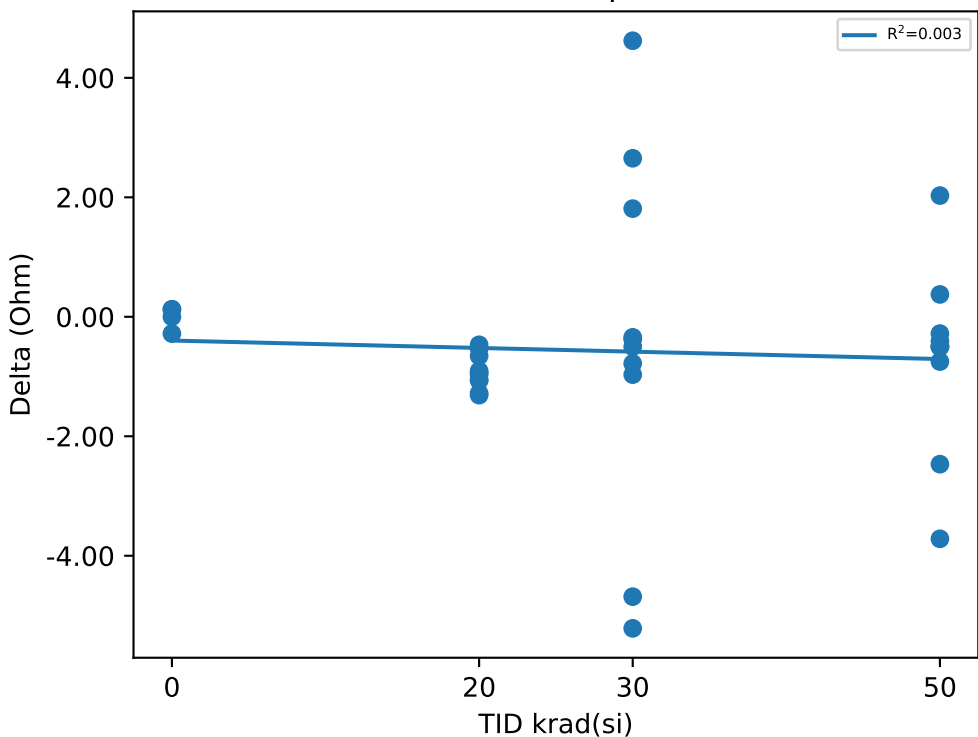
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 116.62 | 116.83 | 117.24 | 0.28779 | 116.65 | 116.82 | 116.96 | 0.14978 | -0.2811 | -0.007825 | 0.1249 | 0.19146 |
| 20 | 115.49 | 117.83 | 121.55 | 2.3568 | 114.21 | 116.91 | 120.65 | 2.3632 | -1.3117 | -0.91816 | -0.4685 | 0.28894 |
| 30 | 115.81 | 117.89 | 121.24 | 1.8456 | 115.59 | 117.51 | 120.43 | 1.6676 | -5.2154 | -0.37825 | 4.621 | 3.0082 |
| 50 | 115.96 | 117.4 | 119.43 | 1.2418 | 115.56 | 116.73 | 118.46 | 1.0038 | -3.7163 | -0.67153 | 2.0294 | 1.5349 |
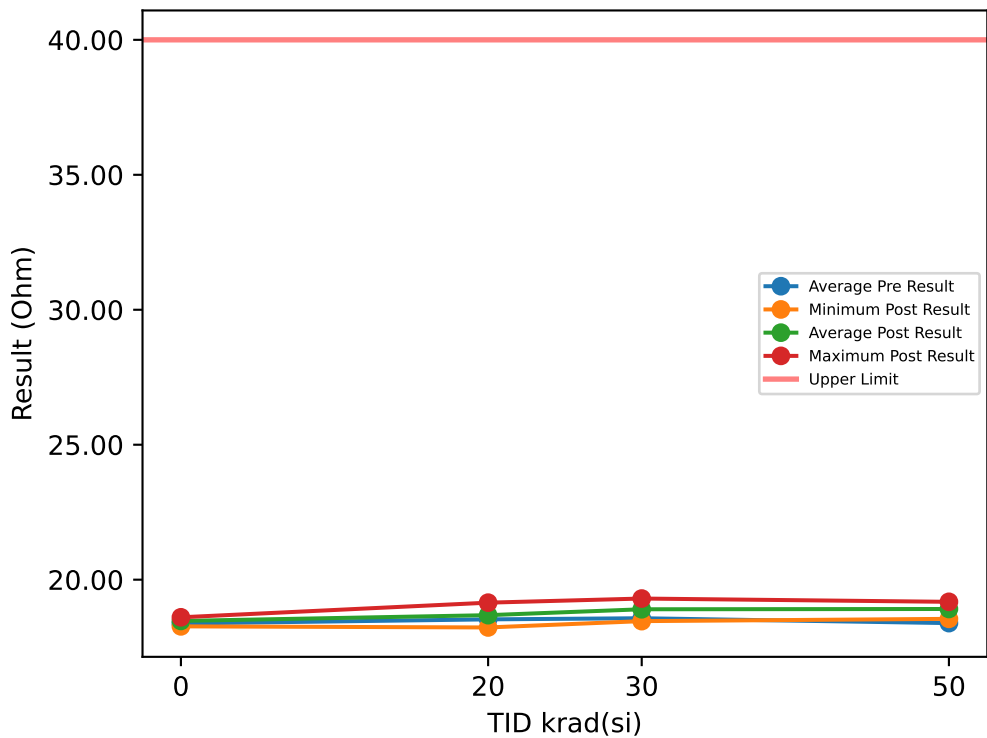
# Device Test: 20.5  PWRGD_RPMOS_LOW_V(_RESISTANCE|SINK/PWRGD/1.6/3/0/0/2/@PWRGD_RPMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 18.927 | 19.067 | 0.1405 |
| 2 | 20 | Bias | 18.919 | 19.072 | 0.153 |
| 3 | 20 | Bias | 18.939 | 19.149 | 0.2093 |
| 4 | 20 | Bias | 18.079 | 18.236 | 0.1578 |
| 5 | 20 | Bias | 18.436 | 18.585 | 0.1483 |
| 6 | 20 | Unbiased | 18.477 | 18.604 | 0.1265 |
| 7 | 20 | Unbiased | 18.538 | 18.692 | 0.1546 |
| 8 | 20 | Unbiased | 18.099 | 18.23 | 0.1312 |
| 9 | 20 | Unbiased | 18.524 | 18.719 | 0.1953 |
| 10 | 20 | Unbiased | 18.36 | 18.499 | 0.139 |
| 11 | 30 | Bias | 18.989 | 18.861 | -0.1281 |
| 12 | 30 | Bias | 18.783 | 19.301 | 0.5183 |
| 13 | 30 | Bias | 18.594 | 19.078 | 0.484 |
| 14 | 30 | Bias | 18.397 | 18.898 | 0.5012 |
| 15 | 30 | Bias | 18.844 | 18.686 | -0.1578 |
| 16 | 30 | Unbiased | 18.183 | 19.156 | 0.9728 |
| 17 | 30 | Unbiased | 18.344 | 18.465 | 0.1203 |
| 18 | 30 | Unbiased | 18.433 | 18.669 | 0.2358 |
| 19 | 30 | Unbiased | 18.831 | 18.769 | -0.0626 |
| 20 | 30 | Unbiased | 18.321 | 19.155 | 0.8338 |
| 21 | 50 | Bias | 18.397 | 18.725 | 0.3279 |
| 22 | 50 | Bias | 18.441 | 18.855 | 0.4137 |
| 23 | 50 | Bias | 18.397 | 18.914 | 0.5168 |
| 24 | 50 | Bias | 18.215 | 18.861 | 0.6464 |
| 25 | 50 | Bias | 18.038 | 18.549 | 0.5107 |
| 26 | 50 | Unbiased | 18.577 | 19.148 | 0.5716 |
| 27 | 50 | Unbiased | 18.177 | 18.711 | 0.5341 |
| 28 | 50 | Unbiased | 18.627 | 19.175 | 0.5482 |
| 29 | 50 | Unbiased | 18.627 | 19.18 | 0.5529 |
| 30 | 50 | Unbiased | 18.416 | 19.027 | 0.6106 |
| 31 | 0 | Correlation | 18.635 | 18.596 | -0.039 |
| 32 | 0 | Correlation | 18.429 | 18.415 | -0.0141 |
| 33 | 0 | Correlation | 18.28 | 18.271 | -0.0094 |
| 34 | 0 | Correlation | 18.166 | 18.607 | 0.4404 |

## Test Statistics (Ohm)
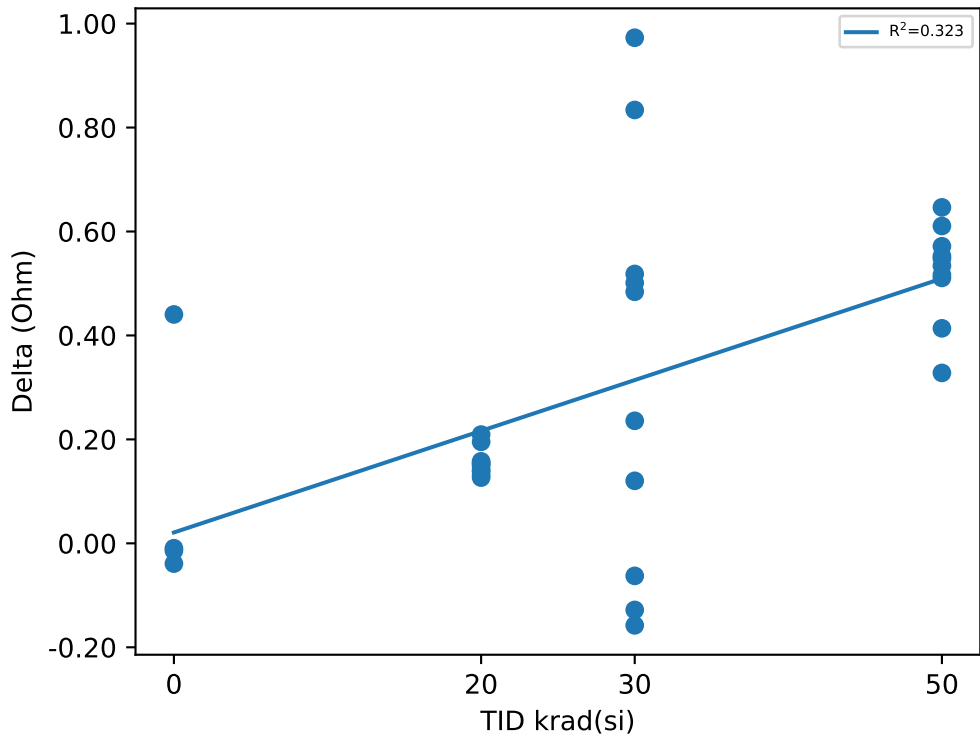
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 18.166 | 18.377 | 18.635 | 0.20238 | 18.271 | 18.472 | 18.607 | 0.16042 | -0.039 | 0.094475 | 0.4404 | 0.23098 |
| 20 | 18.079 | 18.53 | 18.939 | 0.31734 | 18.23 | 18.685 | 19.149 | 0.32854 | 0.1265 | 0.15555 | 0.2093 | 0.026815 |
| 30 | 18.183 | 18.572 | 18.989 | 0.27411 | 18.465 | 18.904 | 19.301 | 0.2647 | -0.1578 | 0.33177 | 0.9728 | 0.39585 |
| 50 | 18.038 | 18.391 | 18.627 | 0.19734 | 18.549 | 18.915 | 19.18 | 0.21679 | 0.3279 | 0.52329 | 0.6464 | 0.092565 |
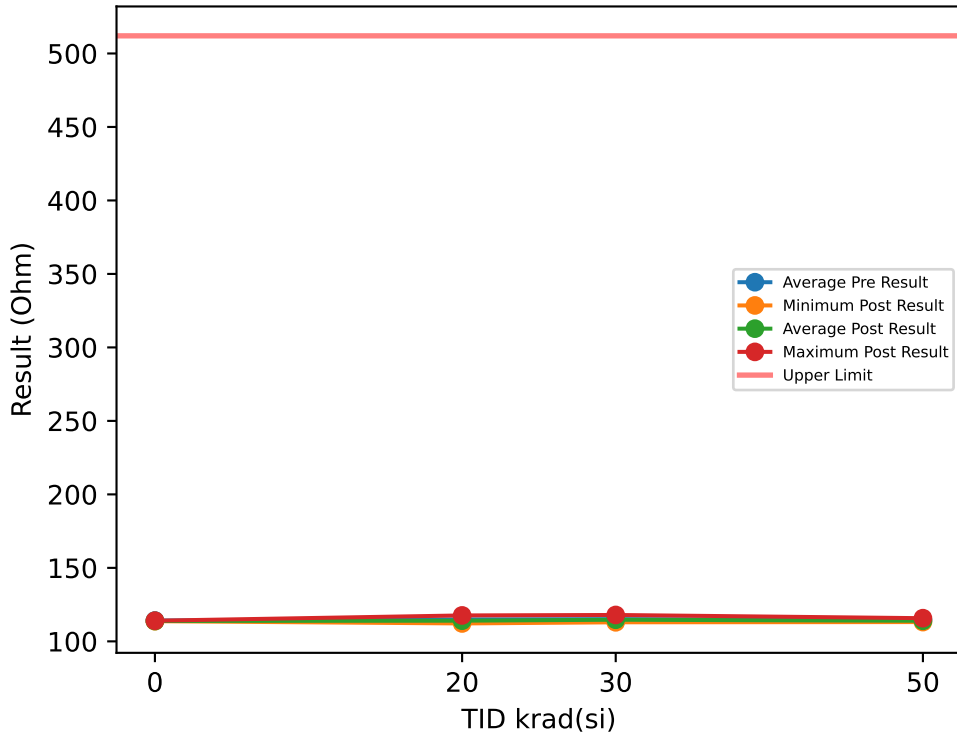
# Device Test: 20.50  SR_FAULT_RPD(_RESISTANCE|PULLDOWN/SR_FAULTb/3.3/14/0/0/0.001/@SR_FAULT_RPD )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 512.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 118.87 | 117.27 | -1.5927 |
| 2 | 20 | Bias | 117.43 | 116.46 | -0.9681 |
| 3 | 20 | Bias | 118.18 | 117.65 | -0.5309 |
| 4 | 20 | Bias | 113.49 | 112.56 | -0.9368 |
| 5 | 20 | Bias | 113.34 | 112.31 | -1.0306 |
| 6 | 20 | Unbiased | 113.68 | 112.62 | -1.0618 |
| 7 | 20 | Unbiased | 113.56 | 113.12 | -0.4372 |
| 8 | 20 | Unbiased | 114.93 | 113.87 | -1.0618 |
| 9 | 20 | Unbiased | 113.34 | 112.71 | -0.6246 |
| 10 | 20 | Unbiased | 112.62 | 112.18 | -0.4372 |
| 11 | 30 | Bias | 118.12 | 113.24 | -4.8714 |
| 12 | 30 | Bias | 114.65 | 117.46 | 2.8102 |
| 13 | 30 | Bias | 114.65 | 114.12 | -0.5307 |
| 14 | 30 | Bias | 114.18 | 114.12 | -0.0623 |
| 15 | 30 | Bias | 118.4 | 113.9 | -4.4968 |
| 16 | 30 | Unbiased | 113.09 | 117.96 | 4.8712 |
| 17 | 30 | Unbiased | 113.96 | 112.96 | -0.999 |
| 18 | 30 | Unbiased | 114.46 | 113.87 | -0.5931 |
| 19 | 30 | Unbiased | 115.68 | 114.28 | -1.4052 |
| 20 | 30 | Unbiased | 113.93 | 115.27 | 1.3428 |
| 21 | 50 | Bias | 113.49 | 113.46 | -0.0309 |
| 22 | 50 | Bias | 115.68 | 113.34 | -2.3419 |
| 23 | 50 | Bias | 113.12 | 115.77 | 2.6543 |
| 24 | 50 | Bias | 116.52 | 113.12 | -3.4036 |
| 25 | 50 | Bias | 114.18 | 113.24 | -0.9369 |
| 26 | 50 | Unbiased | 116.18 | 115.4 | -0.7807 |
| 27 | 50 | Unbiased | 114.84 | 114.09 | -0.7495 |
| 28 | 50 | Unbiased | 114.18 | 114.18 | 0 |
| 29 | 50 | Unbiased | 114.15 | 114.18 | 0.0313 |
| 30 | 50 | Unbiased | 113.46 | 113.28 | -0.1874 |
| 31 | 0 | Correlation | 114.12 | 113.71 | -0.406 |
| 32 | 0 | Correlation | 114.34 | 113.81 | -0.5309 |
| 33 | 0 | Correlation | 114.12 | 113.9 | -0.2186 |
| 34 | 0 | Correlation | 114.03 | 114.06 | 0.0313 |

## Test Statistics (Ohm)
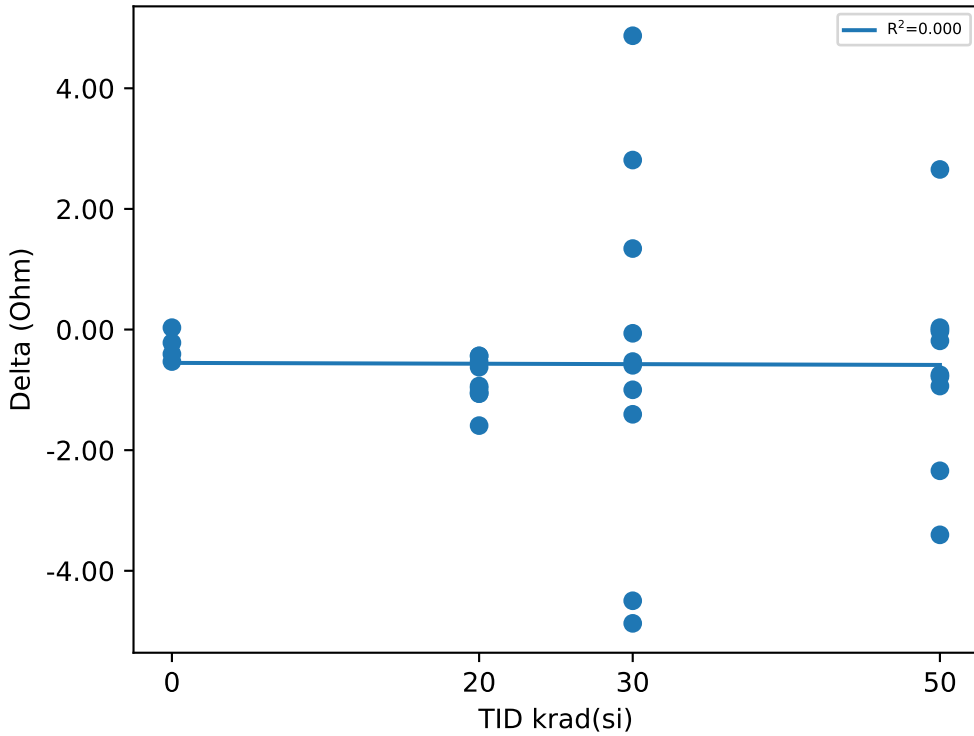
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 114.03 | 114.15 | 114.34 | 0.1325 | 113.71 | 113.87 | 114.06 | 0.14651 | -0.5309 | -0.28105 | 0.0313 | 0.24461 |
| 20 | 112.62 | 114.94 | 118.87 | 2.3141 | 112.18 | 114.08 | 117.65 | 2.1761 | -1.5927 | -0.86817 | -0.4372 | 0.36294 |
| 30 | 113.09 | 115.11 | 118.4 | 1.7847 | 112.96 | 114.72 | 117.96 | 1.6959 | -4.8714 | -0.39343 | 4.8712 | 2.971 |
| 50 | 113.12 | 114.58 | 116.52 | 1.1868 | 113.12 | 114.01 | 115.77 | 0.92936 | -3.4036 | -0.57453 | 2.6543 | 1.5951 |

## TID vs Result Stats
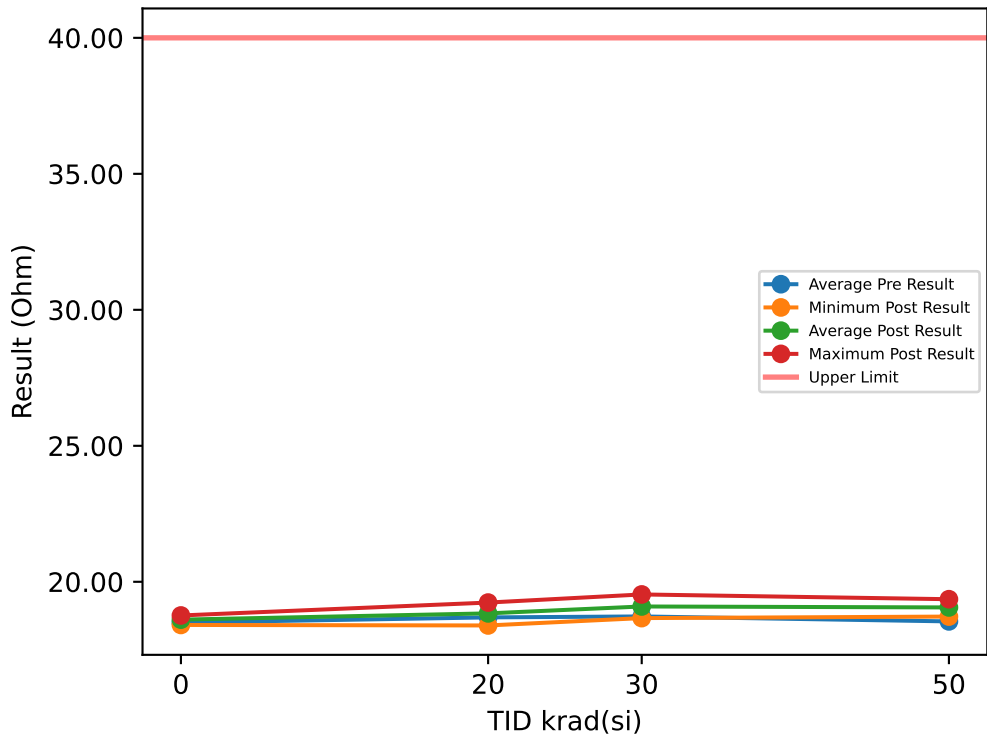


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 19.054 | 19.224 | 0.1702 |
| 2 | 20 | Bias | 19.044 | 19.213 | 0.1686 |
| 3 | 20 | Bias | 19.086 | 19.236 | 0.1499 |
| 4 | 20 | Bias | 18.253 | 18.395 | 0.1421 |
| 5 | 20 | Bias | 18.574 | 18.724 | 0.1499 |
| 6 | 20 | Unbiased | 18.635 | 18.737 | 0.1015 |
| 7 | 20 | Unbiased | 18.687 | 18.835 | 0.1483 |
| 8 | 20 | Unbiased | 18.346 | 18.448 | 0.1015 |
| 9 | 20 | Unbiased | 18.707 | 18.868 | 0.1608 |
| 10 | 20 | Unbiased | 18.521 | 18.707 | 0.1859 |
| 11 | 30 | Bias | 19.175 | 19.074 | -0.1012 |
| 12 | 30 | Bias | 18.908 | 19.535 | 0.6264 |
| 13 | 30 | Bias | 18.768 | 19.233 | 0.4657 |
| 14 | 30 | Bias | 18.532 | 19.116 | 0.5843 |
| 15 | 30 | Bias | 19.024 | 18.865 | -0.159 |
| 16 | 30 | Unbiased | 18.354 | 19.324 | 0.97 |
| 17 | 30 | Unbiased | 18.509 | 18.665 | 0.1566 |
| 18 | 30 | Unbiased | 18.61 | 18.843 | 0.2331 |
| 19 | 30 | Unbiased | 18.977 | 18.951 | -0.0262 |
| 20 | 30 | Unbiased | 18.407 | 19.319 | 0.9123 |
| 21 | 50 | Bias | 18.49 | 18.837 | 0.347 |
| 22 | 50 | Bias | 18.541 | 18.935 | 0.3939 |
| 23 | 50 | Bias | 18.538 | 19.027 | 0.4891 |
| 24 | 50 | Bias | 18.396 | 19.007 | 0.6109 |
| 25 | 50 | Bias | 18.245 | 18.721 | 0.4763 |
| 26 | 50 | Unbiased | 18.751 | 19.327 | 0.5762 |
| 27 | 50 | Unbiased | 18.37 | 18.887 | 0.5168 |
| 28 | 50 | Unbiased | 18.737 | 19.343 | 0.6059 |
| 29 | 50 | Unbiased | 18.79 | 19.36 | 0.57 |
| 30 | 50 | Unbiased | 18.582 | 19.132 | 0.5497 |
| 31 | 0 | Correlation | 18.751 | 18.762 | 0.0109 |
| 32 | 0 | Correlation | 18.532 | 18.509 | -0.0235 |
| 33 | 0 | Correlation | 18.424 | 18.413 | -0.0109 |
| 34 | 0 | Correlation | 18.293 | 18.752 | 0.4591 |

## Test Statistics (Ohm)
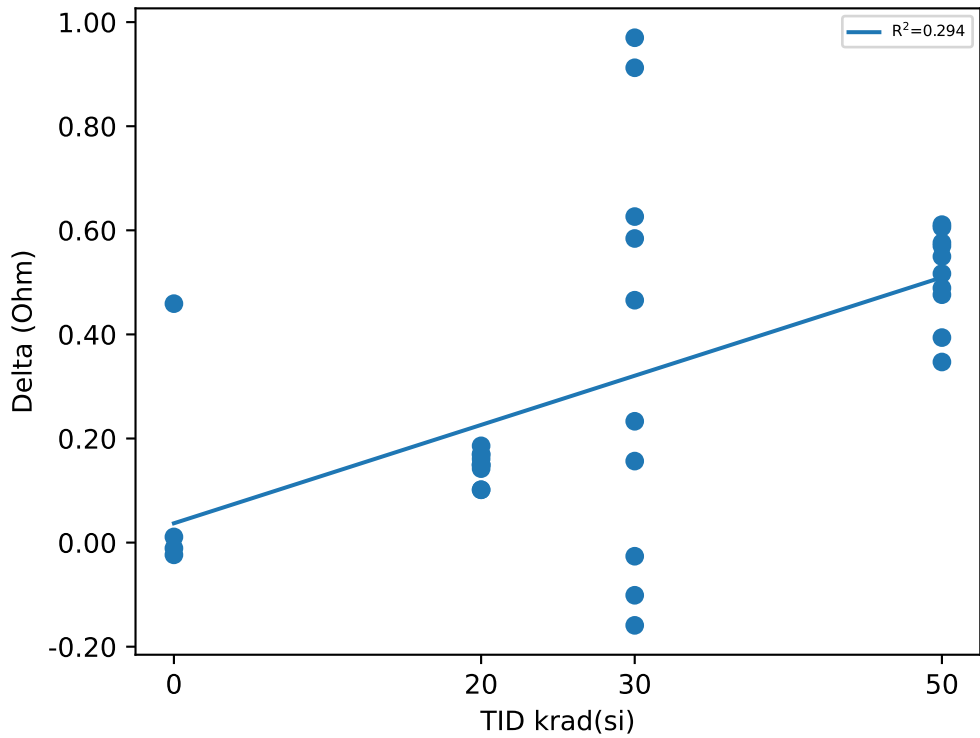
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 18.293 | 18.5 | 18.751 | 0.19358 | 18.413 | 18.609 | 18.762 | 0.17525 | -0.0235 | 0.1089 | 0.4591 | 0.2339 |
| 20 | 18.253 | 18.691 | 19.086 | 0.29245 | 18.395 | 18.839 | 19.236 | 0.30519 | 0.1015 | 0.14787 | 0.1859 | 0.027656 |
| 30 | 18.354 | 18.726 | 19.175 | 0.28425 | 18.665 | 19.093 | 19.535 | 0.26626 | -0.159 | 0.3662 | 0.97 | 0.40796 |
| 50 | 18.245 | 18.544 | 18.79 | 0.17839 | 18.721 | 19.057 | 19.36 | 0.22611 | 0.347 | 0.51358 | 0.6109 | 0.08849 |
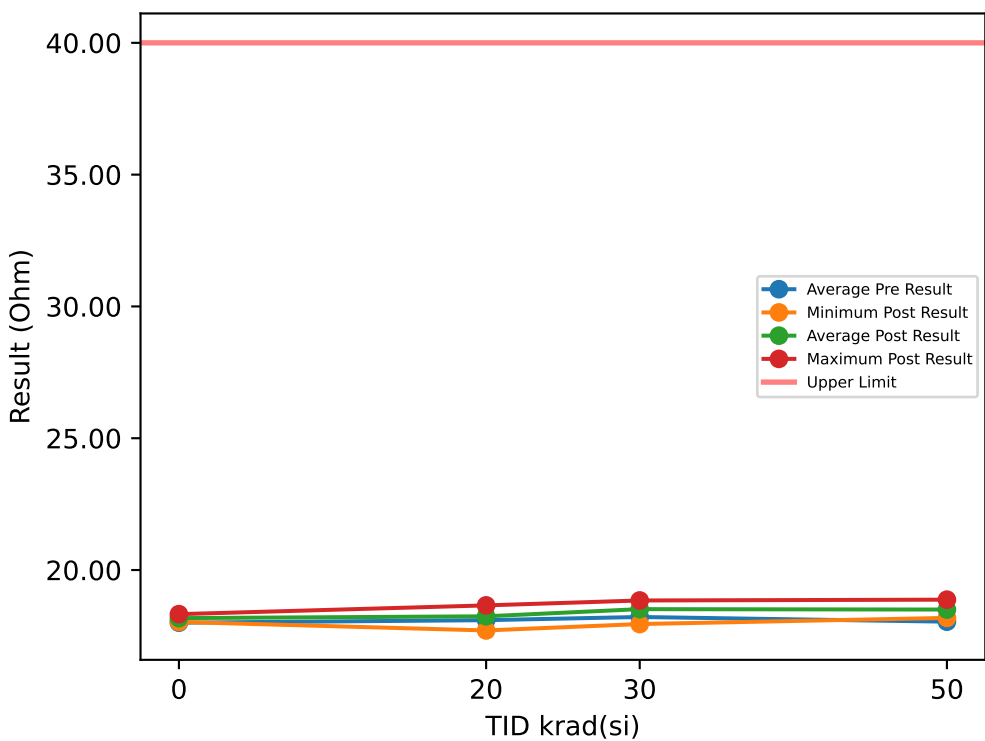
# Device Test: 20.7   EN_RPMOS_LOW_V(_RESISTANCE|SOURCE/EN1/1.6/14/0/0/2/@EN_RPMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 18.485 | 18.613 | 0.1281 |
| 2 | 20 | Bias | 18.434 | 18.59 | 0.1561 |
| 3 | 20 | Bias | 18.493 | 18.659 | 0.1655 |
| 4 | 20 | Bias | 17.686 | 17.823 | 0.1374 |
| 5 | 20 | Bias | 18.064 | 18.221 | 0.1578 |
| 6 | 20 | Unbiased | 18.082 | 18.187 | 0.1046 |
| 7 | 20 | Unbiased | 18.092 | 18.234 | 0.1421 |
| 8 | 20 | Unbiased | 17.586 | 17.708 | 0.1217 |
| 9 | 20 | Unbiased | 18.079 | 18.268 | 0.189 |
| 10 | 20 | Unbiased | 17.976 | 18.14 | 0.1639 |
| 11 | 30 | Bias | 18.534 | 18.544 | 0.0101 |
| 12 | 30 | Bias | 18.301 | 18.82 | 0.5191 |
| 13 | 30 | Bias | 18.393 | 18.575 | 0.1819 |
| 14 | 30 | Bias | 18.079 | 18.686 | 0.6065 |
| 15 | 30 | Bias | 18.584 | 18.342 | -0.2412 |
| 16 | 30 | Unbiased | 17.722 | 18.845 | 1.1233 |
| 17 | 30 | Unbiased | 18.001 | 17.951 | -0.0507 |
| 18 | 30 | Unbiased | 18.112 | 18.288 | 0.1756 |
| 19 | 30 | Unbiased | 18.491 | 18.336 | -0.1554 |
| 20 | 30 | Unbiased | 17.968 | 18.776 | 0.8079 |
| 21 | 50 | Bias | 18.04 | 18.35 | 0.31 |
| 22 | 50 | Bias | 18.039 | 18.413 | 0.3739 |
| 23 | 50 | Bias | 18.05 | 18.378 | 0.3287 |
| 24 | 50 | Bias | 17.968 | 18.424 | 0.4551 |
| 25 | 50 | Bias | 17.715 | 18.184 | 0.4685 |
| 26 | 50 | Unbiased | 18.181 | 18.751 | 0.57 |
| 27 | 50 | Unbiased | 17.893 | 18.37 | 0.4763 |
| 28 | 50 | Unbiased | 18.328 | 18.876 | 0.5481 |
| 29 | 50 | Unbiased | 18.154 | 18.696 | 0.5418 |
| 30 | 50 | Unbiased | 18.042 | 18.565 | 0.5231 |
| 31 | 0 | Correlation | 18.323 | 18.326 | 0.0032 |
| 32 | 0 | Correlation | 18.006 | 18.073 | 0.0671 |
| 33 | 0 | Correlation | 17.973 | 18.031 | 0.0578 |
| 34 | 0 | Correlation | 17.706 | 18.273 | 0.5668 |

## Test Statistics (Ohm)
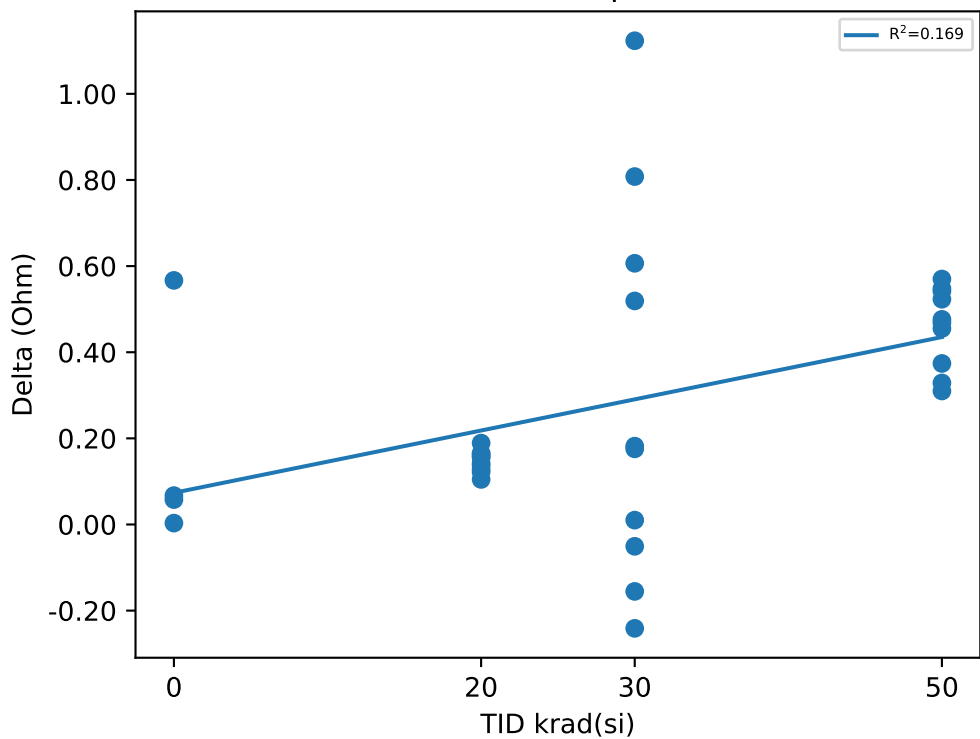
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.706 | 18.002 | 18.323 | 0.25253 | 18.031 | 18.176 | 18.326 | 0.14555 | 0.0032 | 0.17373 | 0.5668 | 0.26356 |
| 20 | 17.586 | 18.098 | 18.493 | 0.31046 | 17.708 | 18.244 | 18.659 | 0.3176 | 0.1046 | 0.14662 | 0.189 | 0.024723 |
| 30 | 17.722 | 18.219 | 18.584 | 0.28513 | 17.951 | 18.516 | 18.845 | 0.28596 | -0.2412 | 0.29771 | 1.1233 | 0.449 |
| 50 | 17.715 | 18.041 | 18.328 | 0.16585 | 18.184 | 18.501 | 18.876 | 0.21453 | 0.31 | 0.45955 | 0.57 | 0.093123 |
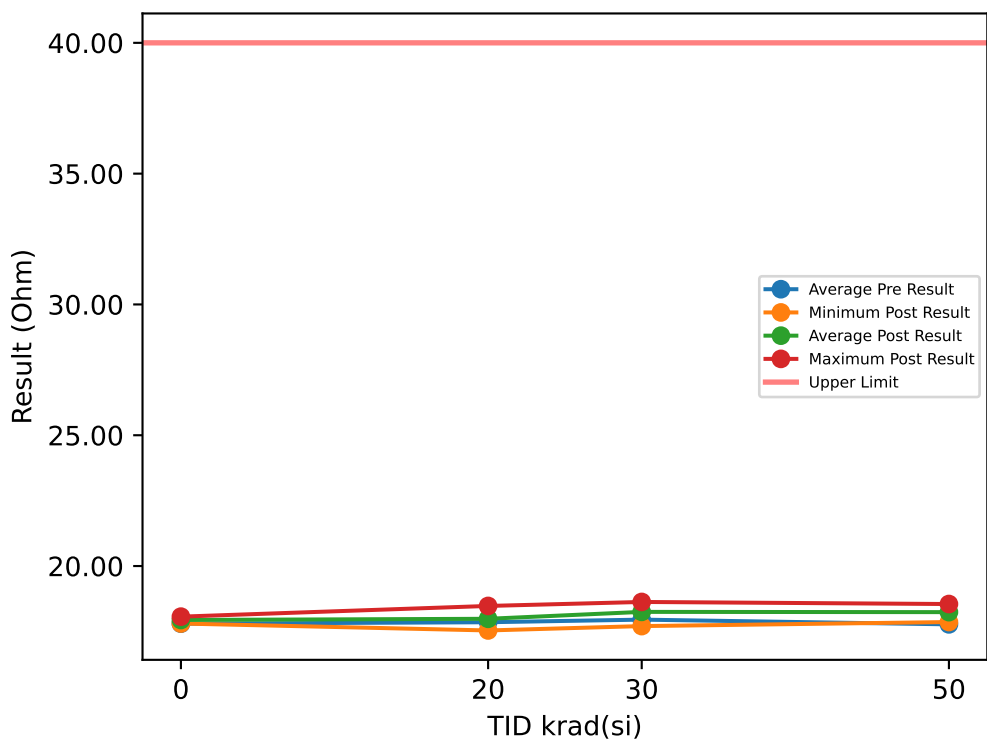
# Device Test: 20.8   EN_RPMOS_LOW_V(_RESISTANCE|SOURCE/EN2/1.6/14/0/0/2/@EN_RPMOS_LOW_V )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 18.157 | 18.279 | 0.1218 |
| 2 | 20 | Bias | 18.09 | 18.257 | 0.1671 |
| 3 | 20 | Bias | 18.306 | 18.474 | 0.1687 |
| 4 | 20 | Bias | 17.391 | 17.545 | 0.1546 |
| 5 | 20 | Bias | 17.872 | 18.001 | 0.1296 |
| 6 | 20 | Unbiased | 17.9 | 17.995 | 0.0953 |
| 7 | 20 | Unbiased | 17.837 | 17.954 | 0.1171 |
| 8 | 20 | Unbiased | 17.408 | 17.538 | 0.1296 |
| 9 | 20 | Unbiased | 17.869 | 17.958 | 0.089 |
| 10 | 20 | Unbiased | 17.689 | 17.833 | 0.1437 |
| 11 | 30 | Bias | 18.306 | 18.329 | 0.0231 |
| 12 | 30 | Bias | 18.089 | 18.627 | 0.5383 |
| 13 | 30 | Bias | 18.119 | 18.374 | 0.2557 |
| 14 | 30 | Bias | 17.773 | 18.377 | 0.6039 |
| 15 | 30 | Bias | 18.303 | 17.992 | -0.3109 |
| 16 | 30 | Unbiased | 17.483 | 18.529 | 1.0458 |
| 17 | 30 | Unbiased | 17.712 | 17.705 | -0.0079 |
| 18 | 30 | Unbiased | 17.859 | 17.987 | 0.1279 |
| 19 | 30 | Unbiased | 18.165 | 18.109 | -0.0564 |
| 20 | 30 | Unbiased | 17.705 | 18.448 | 0.7429 |
| 21 | 50 | Bias | 17.761 | 18.084 | 0.323 |
| 22 | 50 | Bias | 17.831 | 18.148 | 0.3168 |
| 23 | 50 | Bias | 17.77 | 18.206 | 0.4354 |
| 24 | 50 | Bias | 17.659 | 18.104 | 0.4448 |
| 25 | 50 | Bias | 17.406 | 17.859 | 0.4528 |
| 26 | 50 | Unbiased | 17.936 | 18.501 | 0.5653 |
| 27 | 50 | Unbiased | 17.57 | 18.117 | 0.5465 |
| 28 | 50 | Unbiased | 17.998 | 18.521 | 0.5231 |
| 29 | 50 | Unbiased | 17.997 | 18.548 | 0.5513 |
| 30 | 50 | Unbiased | 17.781 | 18.29 | 0.509 |
| 31 | 0 | Correlation | 18.014 | 18.02 | 0.0063 |
| 32 | 0 | Correlation | 17.783 | 17.803 | 0.0203 |
| 33 | 0 | Correlation | 17.867 | 17.867 | 0 |
| 34 | 0 | Correlation | 17.522 | 18.065 | 0.5434 |

## Test Statistics (Ohm)
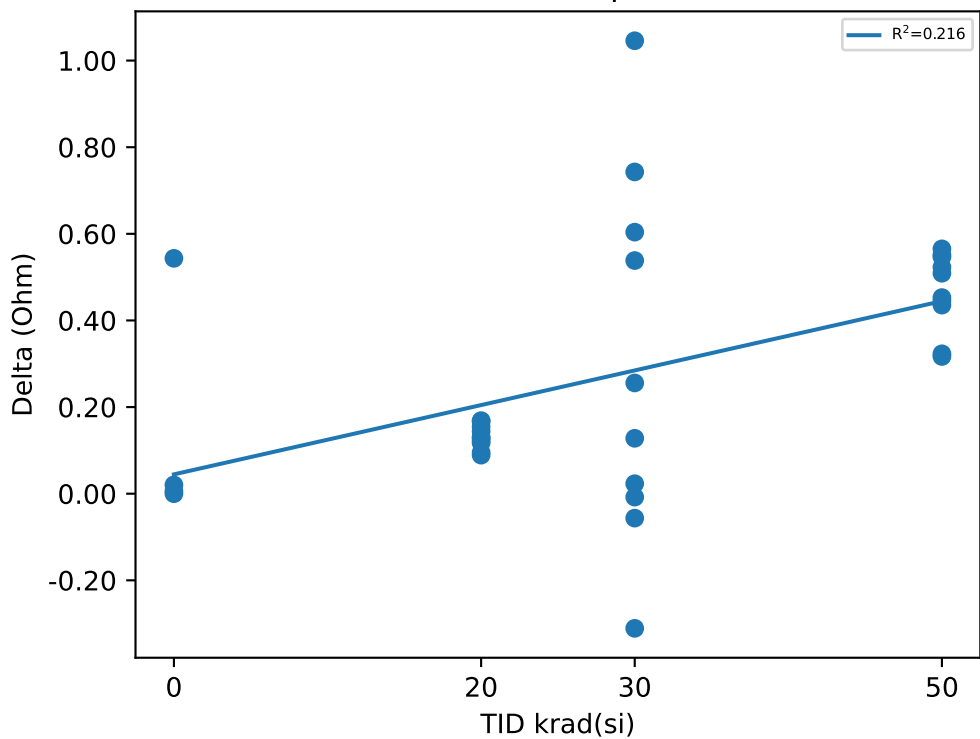
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.522 | 17.796 | 18.014 | 0.20634 | 17.803 | 17.939 | 18.065 | 0.12414 | 0 | 0.1425 | 0.5434 | 0.2674 |
| 20 | 17.391 | 17.852 | 18.306 | 0.29733 | 17.538 | 17.984 | 18.474 | 0.30167 | 0.089 | 0.13165 | 0.1687 | 0.027404 |
| 30 | 17.483 | 17.951 | 18.306 | 0.28268 | 17.705 | 18.248 | 18.627 | 0.28865 | -0.3109 | 0.29624 | 1.0458 | 0.42225 |
| 50 | 17.406 | 17.771 | 17.998 | 0.18829 | 17.859 | 18.238 | 18.548 | 0.22538 | 0.3168 | 0.4668 | 0.5653 | 0.090055 |
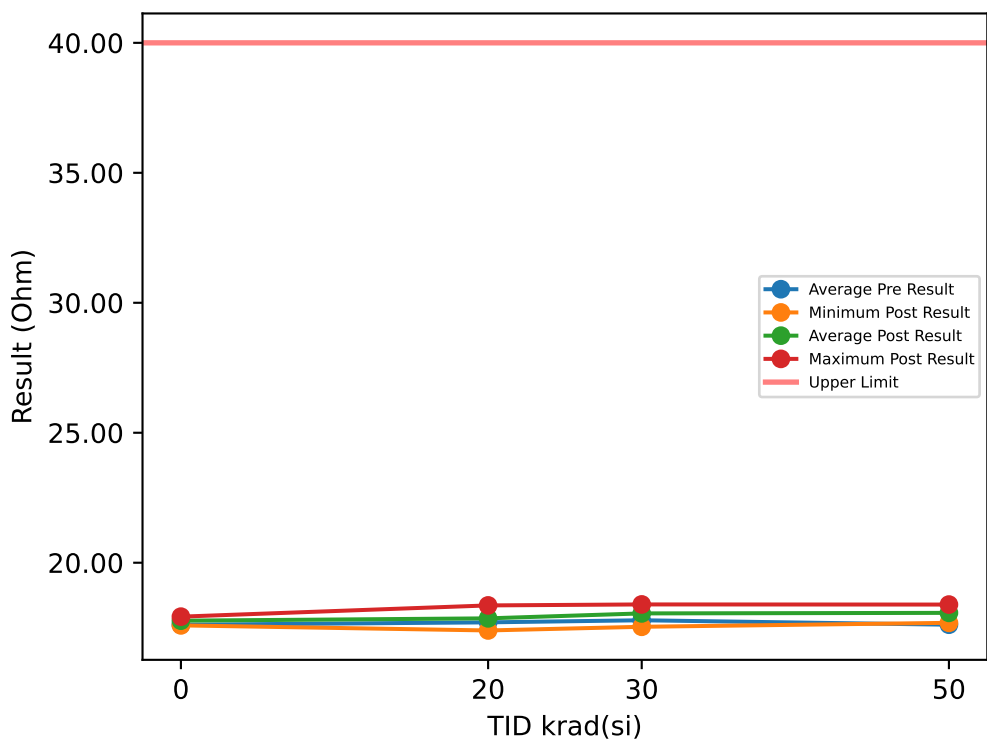
# Device Test: 20.9   EN_RPMOS_LOW_V(_RESISTANCE|SOURCE/EN3/1.6/14/0/0/2/@EN_RPMOS_LOW_V )

## TID vs Result Stats

## TID vs Post - Pre Exposure Delta

R²=0.193

## Test Results (Upper Limit = 40.0 (Ohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 18 | 18.181 | 0.1811 |
| 2 | 20 | Bias | 18.038 | 18.147 | 0.1093 |
| 3 | 20 | Bias | 18.183 | 18.358 | 0.1749 |
| 4 | 20 | Bias | 17.307 | 17.466 | 0.1593 |
| 5 | 20 | Bias | 17.677 | 17.829 | 0.1515 |
| 6 | 20 | Unbiased | 17.702 | 17.808 | 0.1062 |
| 7 | 20 | Unbiased | 17.666 | 17.84 | 0.1733 |
| 8 | 20 | Unbiased | 17.226 | 17.395 | 0.1686 |
| 9 | 20 | Unbiased | 17.702 | 17.849 | 0.1468 |
| 10 | 20 | Unbiased | 17.559 | 17.729 | 0.1702 |
| 11 | 30 | Bias | 18.128 | 18.11 | -0.0182 |
| 12 | 30 | Bias | 17.971 | 18.396 | 0.4251 |
| 13 | 30 | Bias | 17.925 | 18.165 | 0.2394 |
| 14 | 30 | Bias | 17.623 | 18.165 | 0.5423 |
| 15 | 30 | Bias | 18.108 | 17.859 | -0.2492 |
| 16 | 30 | Unbiased | 17.309 | 18.326 | 1.017 |
| 17 | 30 | Unbiased | 17.513 | 17.536 | 0.0224 |
| 18 | 30 | Unbiased | 17.712 | 17.765 | 0.0536 |
| 19 | 30 | Unbiased | 18.033 | 17.917 | -0.1166 |
| 20 | 30 | Unbiased | 17.546 | 18.268 | 0.7218 |
| 21 | 50 | Bias | 17.641 | 17.879 | 0.2379 |
| 22 | 50 | Bias | 17.648 | 17.977 | 0.3299 |
| 23 | 50 | Bias | 17.619 | 18.065 | 0.4454 |
| 24 | 50 | Bias | 17.54 | 17.959 | 0.419 |
| 25 | 50 | Bias | 17.253 | 17.688 | 0.4356 |
| 26 | 50 | Unbiased | 17.782 | 18.349 | 0.5668 |
| 27 | 50 | Unbiased | 17.449 | 17.957 | 0.5074 |
| 28 | 50 | Unbiased | 17.832 | 18.391 | 0.559 |
| 29 | 50 | Unbiased | 17.774 | 18.313 | 0.5387 |
| 30 | 50 | Unbiased | 17.619 | 18.136 | 0.5168 |
| 31 | 0 | Correlation | 17.877 | 17.925 | 0.0484 |
| 32 | 0 | Correlation | 17.593 | 17.59 | -0.0031 |
| 33 | 0 | Correlation | 17.674 | 17.682 | 0.0078 |
| 34 | 0 | Correlation | 17.312 | 17.888 | 0.5761 |

## Test Statistics (Ohm)
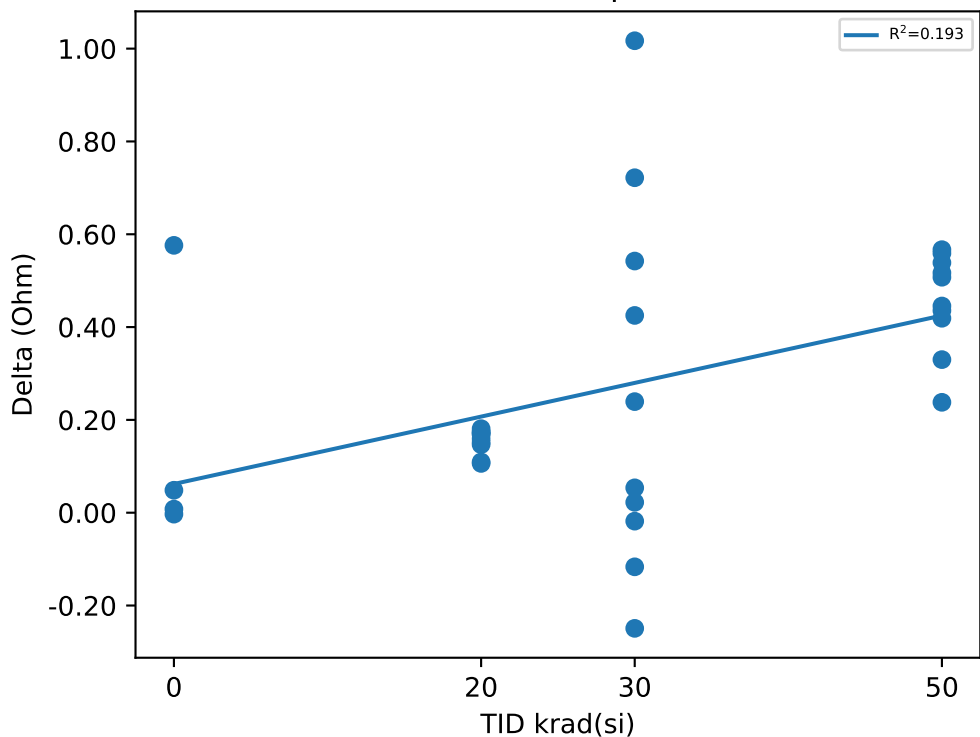
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.312 | 17.614 | 17.877 | 0.2342 | 17.59 | 17.771 | 17.925 | 0.16159 | -0.0031 | 0.1573 | 0.5761 | 0.28008 |
| 20 | 17.226 | 17.706 | 18.183 | 0.30515 | 17.395 | 17.86 | 18.358 | 0.30307 | 0.1062 | 0.15412 | 0.1811 | 0.026642 |
| 30 | 17.309 | 17.787 | 18.128 | 0.28434 | 17.536 | 18.051 | 18.396 | 0.27347 | -0.2492 | 0.26376 | 1.017 | 0.4043 |
| 50 | 17.253 | 17.616 | 17.832 | 0.17203 | 17.688 | 18.071 | 18.391 | 0.22602 | 0.2379 | 0.45565 | 0.5668 | 0.10616 |

## TID vs Result Stats
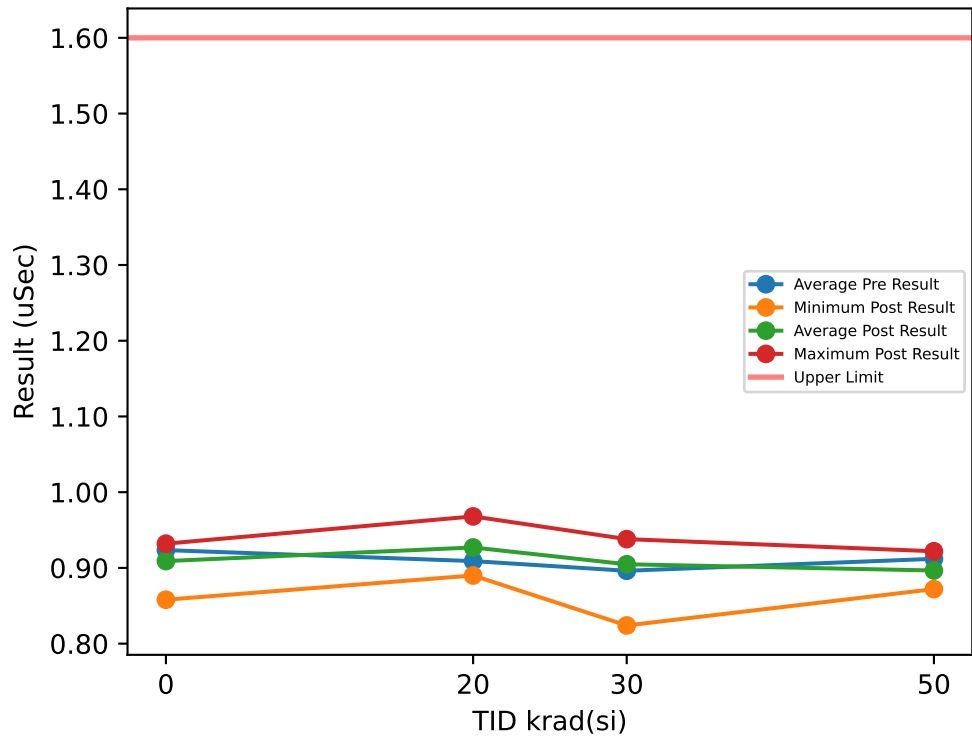


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.6 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.918 | 0.89 | -0.028 |
| 2 | 20 | Bias | 0.922 | 0.912 | -0.01 |
| 3 | 20 | Bias | 0.924 | 0.946 | 0.022 |
| 4 | 20 | Bias | 0.936 | 0.968 | 0.032 |
| 5 | 20 | Bias | 0.89 | 0.902 | 0.012 |
| 6 | 20 | Unbiased | 0.912 | 0.926 | 0.014 |
| 7 | 20 | Unbiased | 0.898 | 0.902 | 0.004 |
| 8 | 20 | Unbiased | 0.916 | 0.954 | 0.038 |
| 9 | 20 | Unbiased | 0.864 | 0.924 | 0.06 |
| 10 | 20 | Unbiased | 0.91 | 0.946 | 0.036 |
| 11 | 30 | Bias | 0.928 | 0.896 | -0.032 |
| 12 | 30 | Bias | 0.87 | 0.914 | 0.044 |
| 13 | 30 | Bias | 0.922 | 0.824 | -0.098 |
| 14 | 30 | Bias | 0.858 | 0.92 | 0.062 |
| 15 | 30 | Bias | 0.858 | 0.912 | 0.054 |
| 16 | 30 | Unbiased | 0.94 | 0.894 | -0.046 |
| 17 | 30 | Unbiased | 0.866 | 0.908 | 0.042 |
| 18 | 30 | Unbiased | 0.908 | 0.914 | 0.006 |
| 19 | 30 | Unbiased | 0.882 | 0.928 | 0.046 |
| 20 | 30 | Unbiased | 0.93 | 0.938 | 0.008 |
| 21 | 50 | Bias | 0.954 | 0.92 | -0.034 |
| 22 | 50 | Bias | 0.9 | 0.918 | 0.018 |
| 23 | 50 | Bias | 0.902 | 0.922 | 0.02 |
| 24 | 50 | Bias | 0.948 | 0.878 | -0.07 |
| 25 | 50 | Bias | 0.888 | 0.872 | -0.016 |
| 26 | 50 | Unbiased | 0.91 | 0.882 | -0.028 |
| 27 | 50 | Unbiased | 0.926 | 0.914 | -0.012 |
| 28 | 50 | Unbiased | 0.872 | 0.876 | 0.004 |
| 29 | 50 | Unbiased | 0.916 | 0.876 | -0.04 |
| 30 | 50 | Unbiased | 0.904 | 0.908 | 0.004 |
| 31 | 0 | Correlation | 0.924 | 0.858 | -0.066 |
| 32 | 0 | Correlation | 0.882 | 0.918 | 0.036 |
| 33 | 0 | Correlation | 0.938 | 0.932 | -0.006 |
| 34 | 0 | Correlation | 0.95 | 0.928 | -0.022 |

## Test Statistics (uSec)
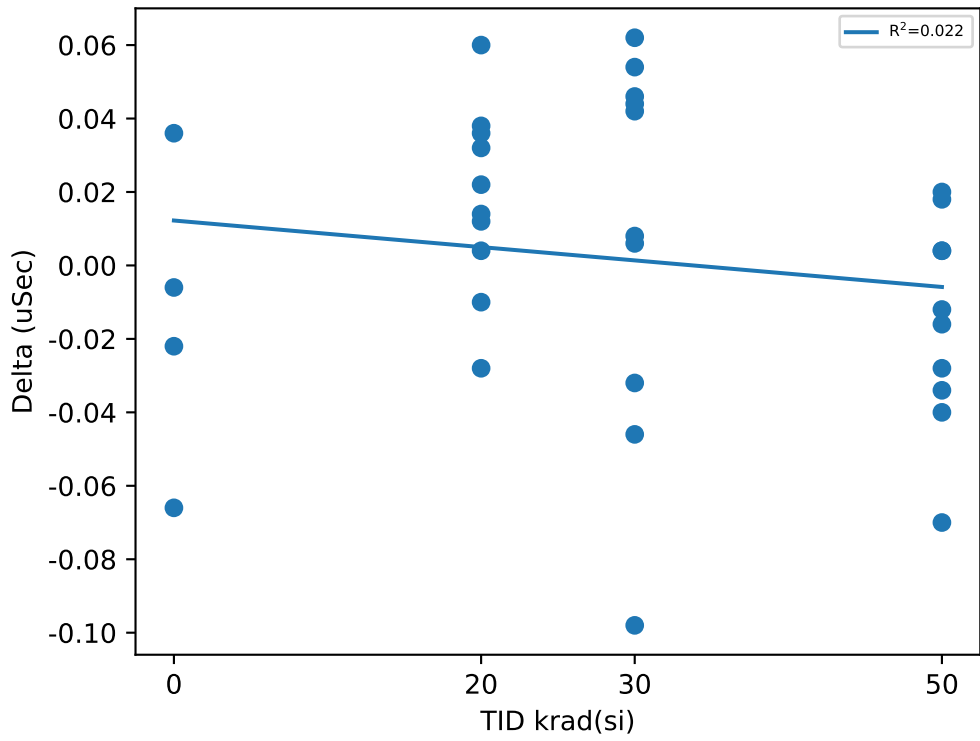
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.882 | 0.9235 | 0.95 | 0.029637 | 0.858 | 0.909 | 0.932 | 0.034506 | -0.066 | -0.0145 | 0.036 | 0.042154 |
| 20 | 0.864 | 0.909 | 0.936 | 0.020467 | 0.89 | 0.927 | 0.968 | 0.02579 | -0.028 | 0.018 | 0.06 | 0.025491 |
| 30 | 0.858 | 0.8962 | 0.94 | 0.032652 | 0.824 | 0.9048 | 0.938 | 0.031315 | -0.098 | 0.0086 | 0.062 | 0.052367 |
| 50 | 0.872 | 0.912 | 0.954 | 0.025298 | 0.872 | 0.8966 | 0.922 | 0.021334 | -0.07 | -0.0154 | 0.02 | 0.028332 |

## TID vs Result Stats
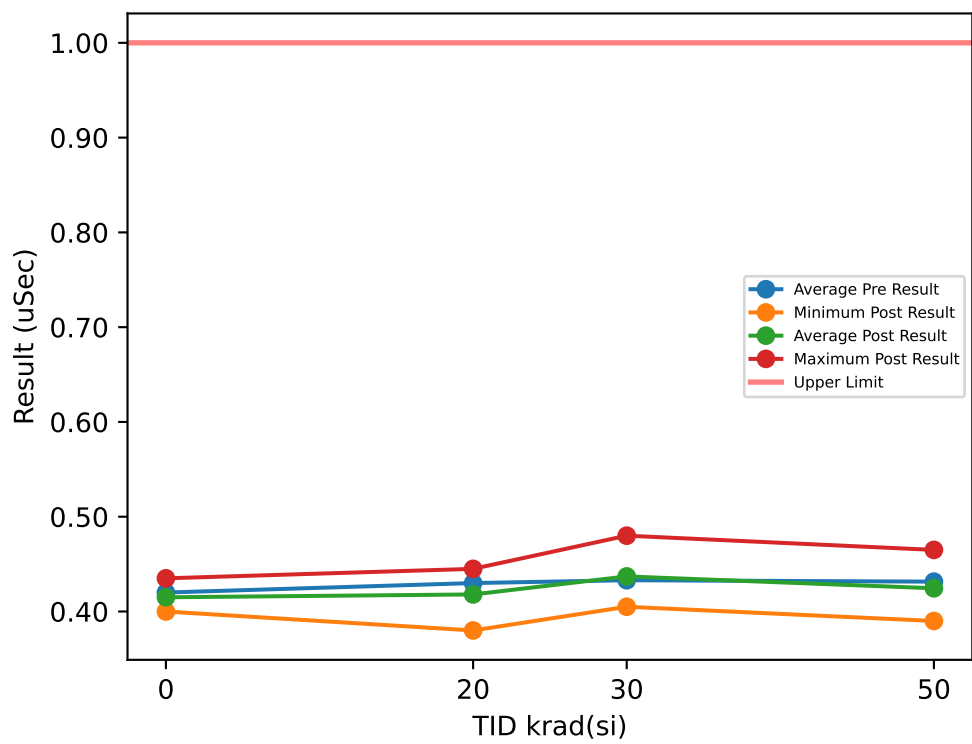


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.0 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 20 | Bias | 0.43 | 0.44 | 0.01 |
| 2 | 20 | Bias | 0.425 | 0.4 | -0.025 |
| 3 | 20 | Bias | 0.395 | 0.435 | 0.04 |
| 4 | 20 | Bias | 0.47 | 0.415 | -0.055 |
| 5 | 20 | Bias | 0.445 | 0.39 | -0.055 |
| 6 | 20 | Unbiased | 0.43 | 0.405 | -0.025 |
| 7 | 20 | Unbiased | 0.44 | 0.43 | -0.01 |
| 8 | 20 | Unbiased | 0.455 | 0.445 | -0.01 |
| 9 | 20 | Unbiased | 0.43 | 0.44 | 0.01 |
| 10 | 20 | Unbiased | 0.38 | 0.38 | 0 |
| 11 | 30 | Bias | 0.455 | 0.415 | -0.04 |
| 12 | 30 | Bias | 0.455 | 0.415 | -0.04 |
| 13 | 30 | Bias | 0.42 | 0.435 | 0.015 |
| 14 | 30 | Bias | 0.405 | 0.435 | 0.03 |
| 15 | 30 | Bias | 0.435 | 0.465 | 0.03 |
| 16 | 30 | Unbiased | 0.455 | 0.42 | -0.035 |
| 17 | 30 | Unbiased | 0.44 | 0.43 | -0.01 |
| 18 | 30 | Unbiased | 0.4 | 0.47 | 0.07 |
| 19 | 30 | Unbiased | 0.455 | 0.405 | -0.05 |
| 20 | 30 | Unbiased | 0.41 | 0.48 | 0.07 |
| 21 | 50 | Bias | 0.39 | 0.405 | 0.015 |
| 22 | 50 | Bias | 0.44 | 0.39 | -0.05 |
| 23 | 50 | Bias | 0.41 | 0.43 | 0.02 |
| 24 | 50 | Bias | 0.47 | 0.445 | -0.025 |
| 25 | 50 | Bias | 0.405 | 0.39 | -0.015 |
| 26 | 50 | Unbiased | 0.42 | 0.465 | 0.045 |
| 27 | 50 | Unbiased | 0.465 | 0.445 | -0.02 |
| 28 | 50 | Unbiased | 0.44 | 0.4 | -0.04 |
| 29 | 50 | Unbiased | 0.44 | 0.45 | 0.01 |
| 30 | 50 | Unbiased | 0.435 | 0.425 | -0.01 |
| 31 | 0 | Correlation | 0.39 | 0.4 | 0.01 |
| 32 | 0 | Correlation | 0.39 | 0.41 | 0.02 |
| 33 | 0 | Correlation | 0.46 | 0.415 | -0.045 |
| 34 | 0 | Correlation | 0.44 | 0.435 | -0.005 |

## Test Statistics (uSec)
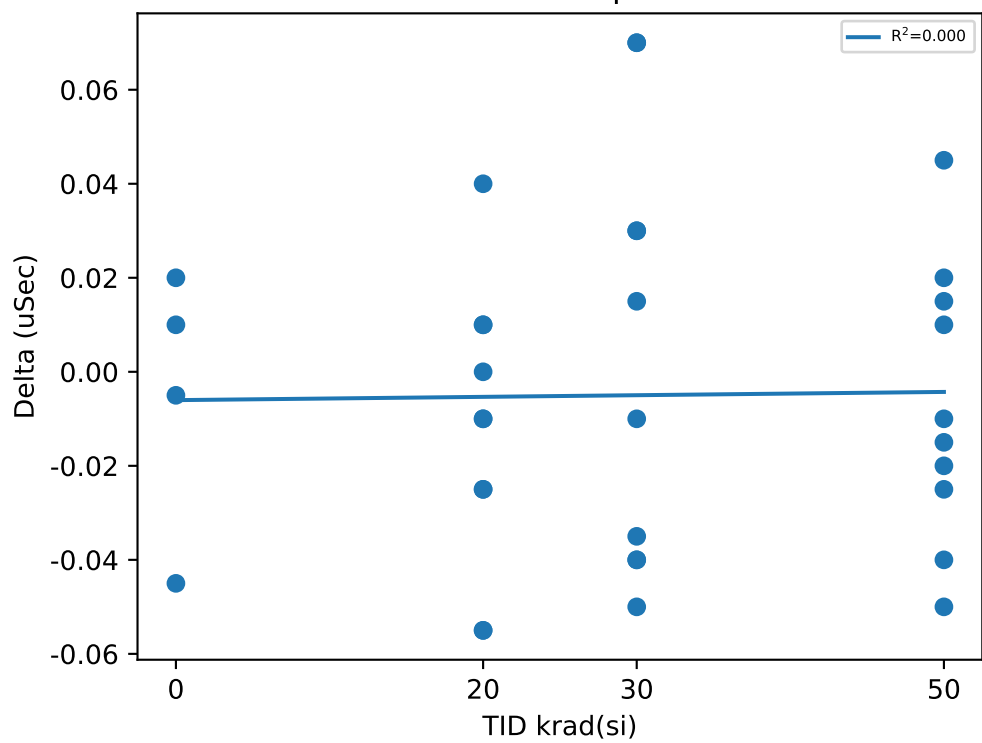
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.39 | 0.42 | 0.46 | 0.03559 | 0.4 | 0.415 | 0.435 | 0.01472 | -0.045 | -0.005 | 0.02 | 0.028577 |
| 20 | 0.38 | 0.43 | 0.47 | 0.026458 | 0.38 | 0.418 | 0.445 | 0.023238 | -0.055 | -0.012 | 0.04 | 0.029552 |
| 30 | 0.4 | 0.433 | 0.455 | 0.022509 | 0.405 | 0.437 | 0.48 | 0.025949 | -0.05 | 0.004 | 0.07 | 0.04557 |
| 50 | 0.39 | 0.4315 | 0.47 | 0.025501 | 0.39 | 0.4245 | 0.465 | 0.026921 | -0.05 | -0.007 | 0.045 | 0.029269 |

## TID vs Result Stats
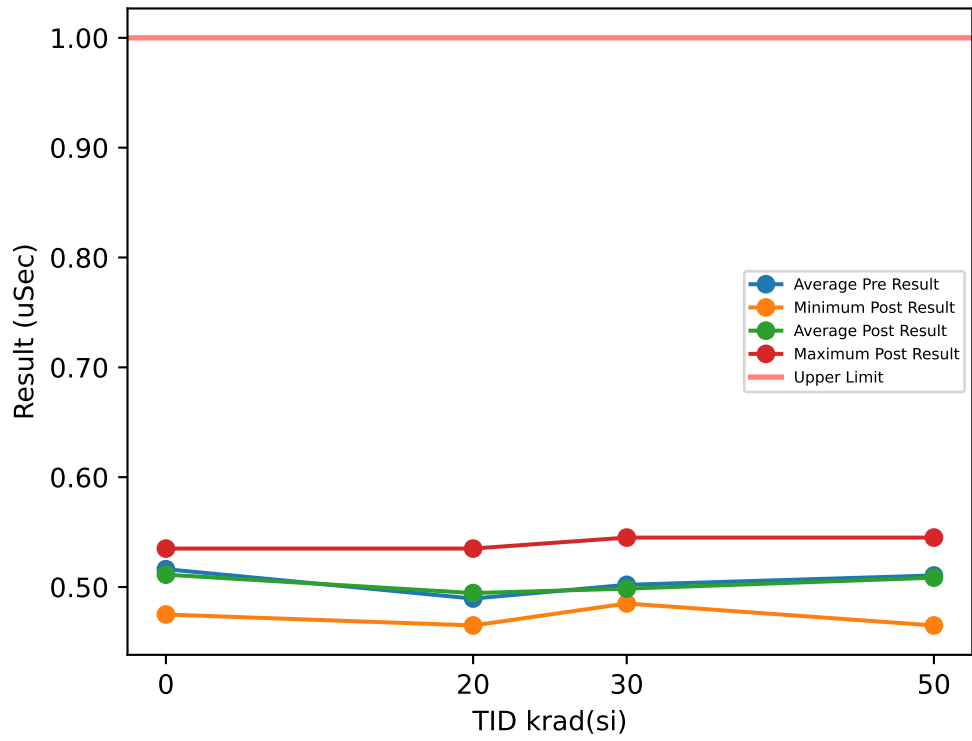


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.0 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.48 | 0.49 | 0.01 |
| 2 | 20 | Bias | 0.515 | 0.495 | -0.02 |
| 3 | 20 | Bias | 0.5 | 0.465 | -0.035 |
| 4 | 20 | Bias | 0.47 | 0.47 | 0 |
| 5 | 20 | Bias | 0.525 | 0.485 | -0.04 |
| 6 | 20 | Unbiased | 0.49 | 0.49 | 0 |
| 7 | 20 | Unbiased | 0.49 | 0.515 | 0.025 |
| 8 | 20 | Unbiased | 0.48 | 0.49 | 0.01 |
| 9 | 20 | Unbiased | 0.47 | 0.535 | 0.065 |
| 10 | 20 | Unbiased | 0.475 | 0.51 | 0.035 |
| 11 | 30 | Bias | 0.475 | 0.495 | 0.02 |
| 12 | 30 | Bias | 0.525 | 0.495 | -0.03 |
| 13 | 30 | Bias | 0.5 | 0.49 | -0.01 |
| 14 | 30 | Bias | 0.5 | 0.49 | -0.01 |
| 15 | 30 | Bias | 0.495 | 0.485 | -0.01 |
| 16 | 30 | Unbiased | 0.49 | 0.49 | 0 |
| 17 | 30 | Unbiased | 0.49 | 0.485 | -0.005 |
| 18 | 30 | Unbiased | 0.515 | 0.515 | 0 |
| 19 | 30 | Unbiased | 0.55 | 0.545 | -0.005 |
| 20 | 30 | Unbiased | 0.48 | 0.495 | 0.015 |
| 21 | 50 | Bias | 0.51 | 0.495 | -0.015 |
| 22 | 50 | Bias | 0.5 | 0.51 | 0.01 |
| 23 | 50 | Bias | 0.53 | 0.545 | 0.015 |
| 24 | 50 | Bias | 0.475 | 0.53 | 0.055 |
| 25 | 50 | Bias | 0.52 | 0.47 | -0.05 |
| 26 | 50 | Unbiased | 0.515 | 0.52 | 0.005 |
| 27 | 50 | Unbiased | 0.485 | 0.495 | 0.01 |
| 28 | 50 | Unbiased | 0.565 | 0.465 | -0.1 |
| 29 | 50 | Unbiased | 0.485 | 0.53 | 0.045 |
| 30 | 50 | Unbiased | 0.52 | 0.525 | 0.005 |
| 31 | 0 | Correlation | 0.51 | 0.515 | 0.005 |
| 32 | 0 | Correlation | 0.505 | 0.535 | 0.03 |
| 33 | 0 | Correlation | 0.5 | 0.475 | -0.025 |
| 34 | 0 | Correlation | 0.55 | 0.52 | -0.03 |

## Test Statistics (uSec)
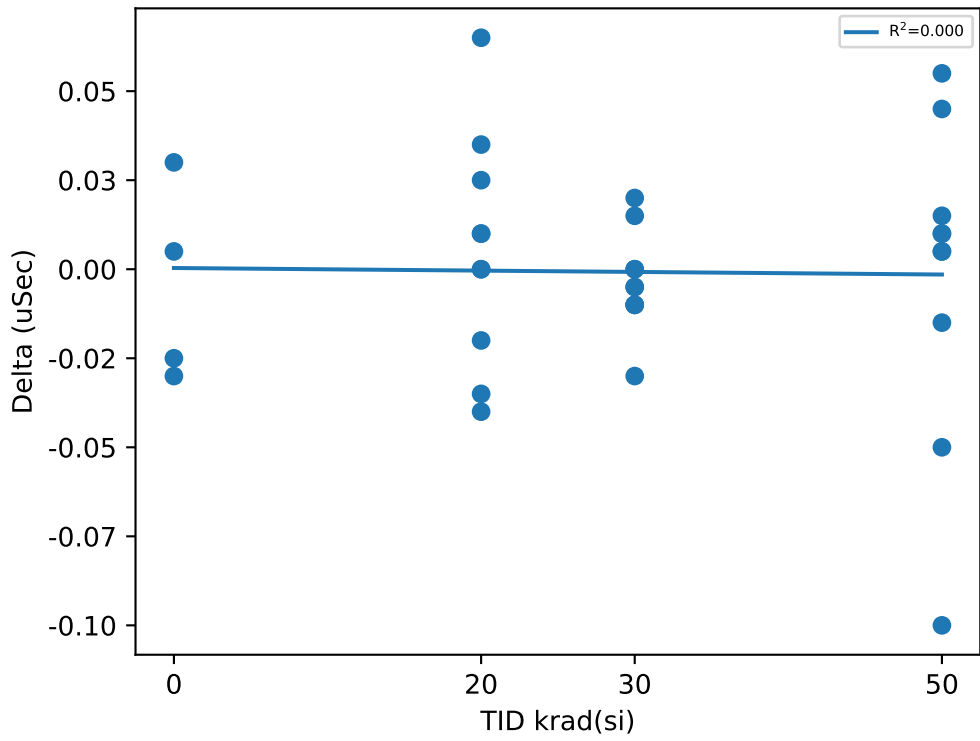
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.5 | 0.51625 | 0.55 | 0.022867 | 0.475 | 0.51125 | 0.535 | 0.025617 | -0.03 | -0.005 | 0.03 | 0.027988 |
| 20 | 0.47 | 0.4895 | 0.525 | 0.018775 | 0.465 | 0.4945 | 0.535 | 0.020877 | -0.04 | 0.005 | 0.065 | 0.032059 |
| 30 | 0.475 | 0.502 | 0.55 | 0.022509 | 0.485 | 0.4985 | 0.545 | 0.018416 | -0.03 | -0.0035 | 0.02 | 0.013954 |
| 50 | 0.475 | 0.5105 | 0.565 | 0.026294 | 0.465 | 0.5085 | 0.545 | 0.026672 | -0.1 | -0.002 | 0.055 | 0.044981 |

### TID vs Result Stats
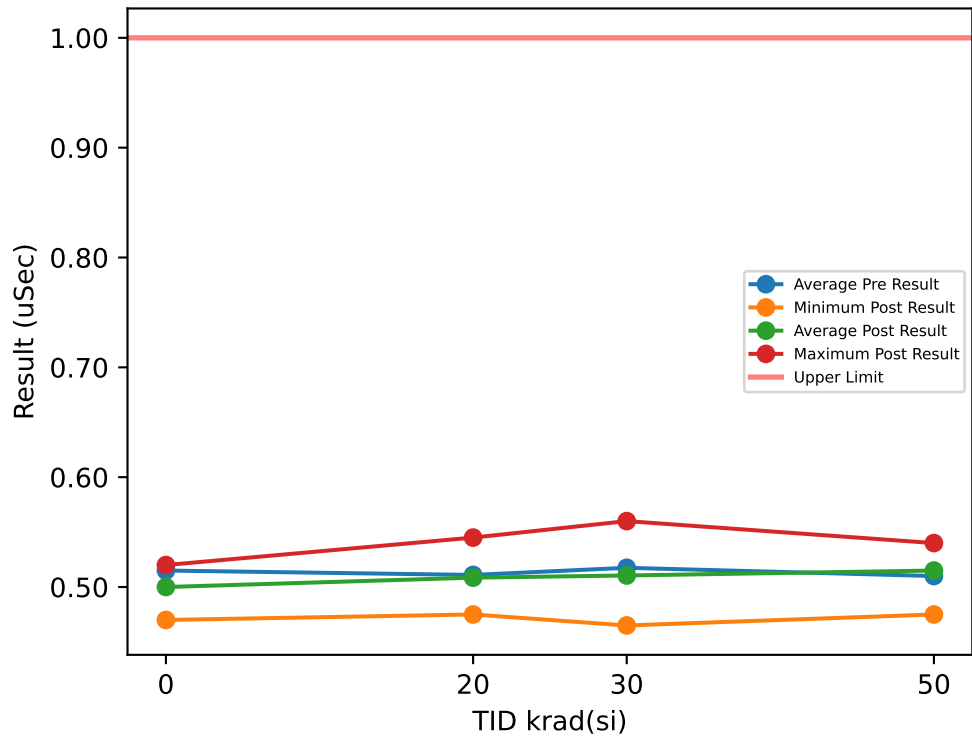


### TID vs Post - Pre Exposure Delta



### Test Results (Upper Limit = 1.0 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.5 | 0.525 | 0.025 |
| 2 | 20 | Bias | 0.525 | 0.49 | -0.035 |
| 3 | 20 | Bias | 0.47 | 0.54 | 0.07 |
| 4 | 20 | Bias | 0.53 | 0.53 | 0 |
| 5 | 20 | Bias | 0.525 | 0.505 | -0.02 |
| 6 | 20 | Unbiased | 0.505 | 0.475 | -0.03 |
| 7 | 20 | Unbiased | 0.555 | 0.545 | -0.01 |
| 8 | 20 | Unbiased | 0.5 | 0.48 | -0.02 |
| 9 | 20 | Unbiased | 0.525 | 0.5 | -0.025 |
| 10 | 20 | Unbiased | 0.475 | 0.495 | 0.02 |
| 11 | 30 | Bias | 0.52 | 0.51 | -0.01 |
| 12 | 30 | Bias | 0.505 | 0.53 | 0.025 |
| 13 | 30 | Bias | 0.455 | 0.52 | 0.065 |
| 14 | 30 | Bias | 0.53 | 0.485 | -0.045 |
| 15 | 30 | Bias | 0.49 | 0.49 | 0 |
| 16 | 30 | Unbiased | 0.53 | 0.56 | 0.03 |
| 17 | 30 | Unbiased | 0.525 | 0.465 | -0.06 |
| 18 | 30 | Unbiased | 0.58 | 0.51 | -0.07 |
| 19 | 30 | Unbiased | 0.505 | 0.52 | 0.015 |
| 20 | 30 | Unbiased | 0.535 | 0.515 | -0.02 |
| 21 | 50 | Bias | 0.49 | 0.495 | 0.005 |
| 22 | 50 | Bias | 0.52 | 0.535 | 0.015 |
| 23 | 50 | Bias | 0.515 | 0.54 | 0.025 |
| 24 | 50 | Bias | 0.495 | 0.515 | 0.02 |
| 25 | 50 | Bias | 0.495 | 0.515 | 0.02 |
| 26 | 50 | Unbiased | 0.535 | 0.52 | -0.015 |
| 27 | 50 | Unbiased | 0.525 | 0.515 | -0.01 |
| 28 | 50 | Unbiased | 0.495 | 0.51 | 0.015 |
| 29 | 50 | Unbiased | 0.525 | 0.53 | 0.005 |
| 30 | 50 | Unbiased | 0.505 | 0.475 | -0.03 |
| 31 | 0 | Correlation | 0.49 | 0.52 | 0.03 |
| 32 | 0 | Correlation | 0.54 | 0.47 | -0.07 |
| 33 | 0 | Correlation | 0.535 | 0.515 | -0.02 |
| 34 | 0 | Correlation | 0.495 | 0.495 | 0 |

### Test Statistics (uSec)
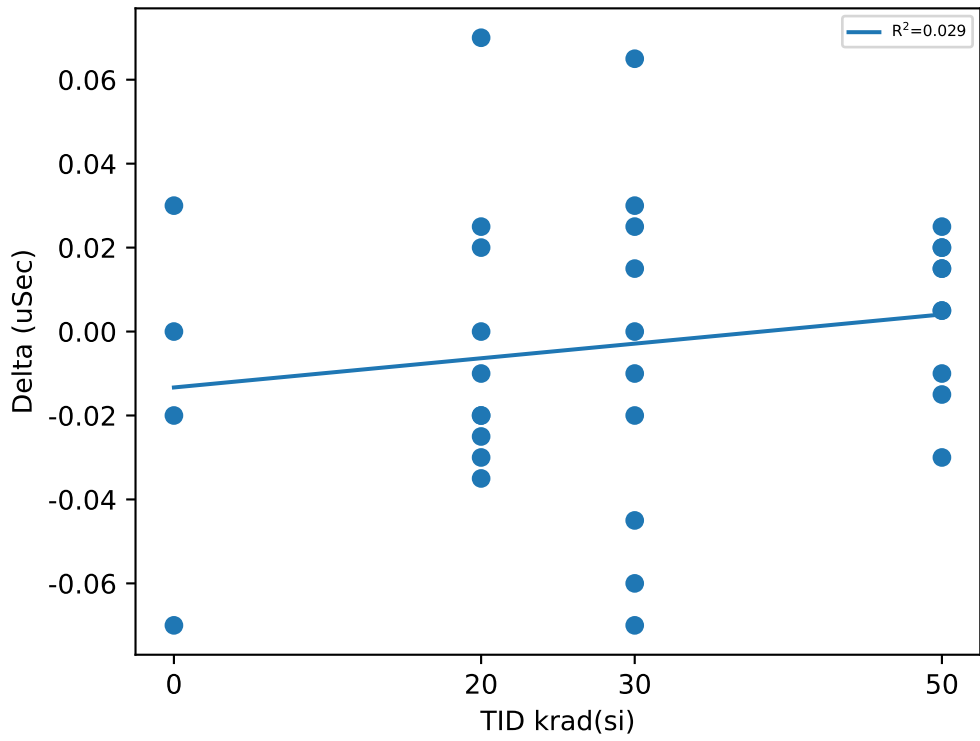
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.49 | 0.515 | 0.54 | 0.026141 | 0.47 | 0.5 | 0.52 | 0.02273 | -0.07 | -0.015 | 0.03 | 0.042032 |
| 20 | 0.47 | 0.511 | 0.555 | 0.026119 | 0.475 | 0.5085 | 0.545 | 0.02495 | -0.035 | -0.0025 | 0.07 | 0.032511 |
| 30 | 0.455 | 0.5175 | 0.58 | 0.032596 | 0.465 | 0.5105 | 0.56 | 0.026188 | -0.07 | -0.007 | 0.065 | 0.04283 |
| 50 | 0.49 | 0.51 | 0.535 | 0.015986 | 0.475 | 0.515 | 0.54 | 0.019149 | -0.03 | 0.005 | 0.025 | 0.017951 |

## TID vs Result Stats
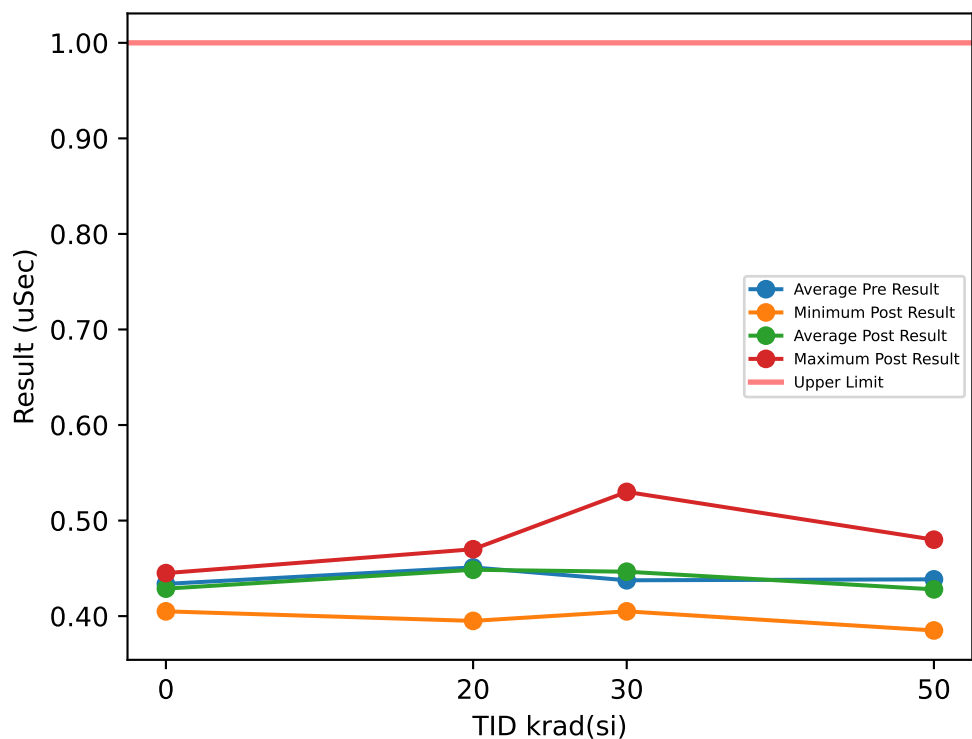


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.0 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.425 | 0.47 | 0.045 |
| 2 | 20 | Bias | 0.495 | 0.435 | -0.06 |
| 3 | 20 | Bias | 0.465 | 0.43 | -0.035 |
| 4 | 20 | Bias | 0.49 | 0.47 | -0.02 |
| 5 | 20 | Bias | 0.45 | 0.435 | -0.015 |
| 6 | 20 | Unbiased | 0.44 | 0.45 | 0.01 |
| 7 | 20 | Unbiased | 0.4 | 0.46 | 0.06 |
| 8 | 20 | Unbiased | 0.47 | 0.395 | -0.075 |
| 9 | 20 | Unbiased | 0.45 | 0.47 | 0.02 |
| 10 | 20 | Unbiased | 0.425 | 0.47 | 0.045 |
| 11 | 30 | Bias | 0.46 | 0.405 | -0.055 |
| 12 | 30 | Bias | 0.405 | 0.445 | 0.04 |
| 13 | 30 | Bias | 0.46 | 0.45 | -0.01 |
| 14 | 30 | Bias | 0.42 | 0.45 | 0.03 |
| 15 | 30 | Bias | 0.44 | 0.41 | -0.03 |
| 16 | 30 | Unbiased | 0.42 | 0.455 | 0.035 |
| 17 | 30 | Unbiased | 0.46 | 0.53 | 0.07 |
| 18 | 30 | Unbiased | 0.455 | 0.465 | 0.01 |
| 19 | 30 | Unbiased | 0.42 | 0.41 | -0.01 |
| 20 | 30 | Unbiased | 0.435 | 0.445 | 0.01 |
| 21 | 50 | Bias | 0.415 | 0.44 | 0.025 |
| 22 | 50 | Bias | 0.475 | 0.41 | -0.065 |
| 23 | 50 | Bias | 0.455 | 0.415 | -0.04 |
| 24 | 50 | Bias | 0.415 | 0.385 | -0.03 |
| 25 | 50 | Bias | 0.42 | 0.395 | -0.025 |
| 26 | 50 | Unbiased | 0.455 | 0.42 | -0.035 |
| 27 | 50 | Unbiased | 0.43 | 0.45 | 0.02 |
| 28 | 50 | Unbiased | 0.405 | 0.445 | 0.04 |
| 29 | 50 | Unbiased | 0.46 | 0.48 | 0.02 |
| 30 | 50 | Unbiased | 0.455 | 0.44 | -0.015 |
| 31 | 0 | Correlation | 0.45 | 0.445 | -0.005 |
| 32 | 0 | Correlation | 0.44 | 0.44 | 0 |
| 33 | 0 | Correlation | 0.405 | 0.425 | 0.02 |
| 34 | 0 | Correlation | 0.44 | 0.405 | -0.035 |

## Test Statistics (uSec)
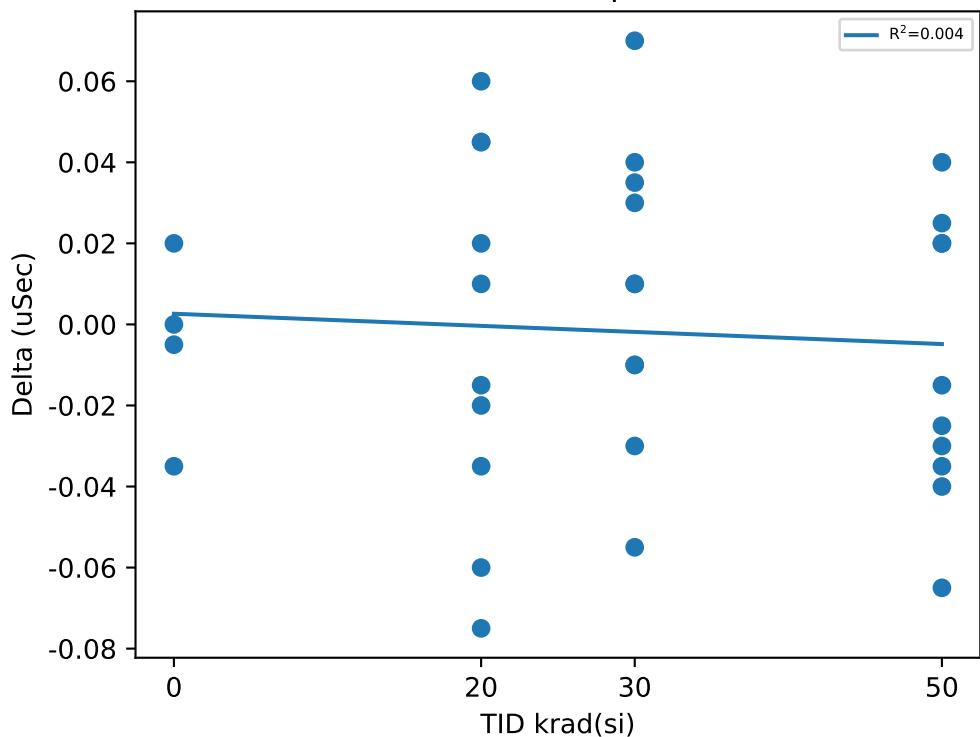
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.405 | 0.43375 | 0.45 | 0.019738 | 0.405 | 0.42875 | 0.445 | 0.01797 | -0.035 | -0.005 | 0.02 | 0.02273 |
| 20 | 0.4 | 0.451 | 0.495 | 0.029981 | 0.395 | 0.4485 | 0.47 | 0.024838 | -0.075 | -0.0025 | 0.06 | 0.046143 |
| 30 | 0.405 | 0.4375 | 0.46 | 0.020582 | 0.405 | 0.4465 | 0.53 | 0.036213 | -0.055 | 0.009 | 0.07 | 0.036727 |
| 50 | 0.405 | 0.4385 | 0.475 | 0.024158 | 0.385 | 0.428 | 0.48 | 0.028402 | -0.065 | -0.0105 | 0.04 | 0.034517 |

## TID vs Result Stats
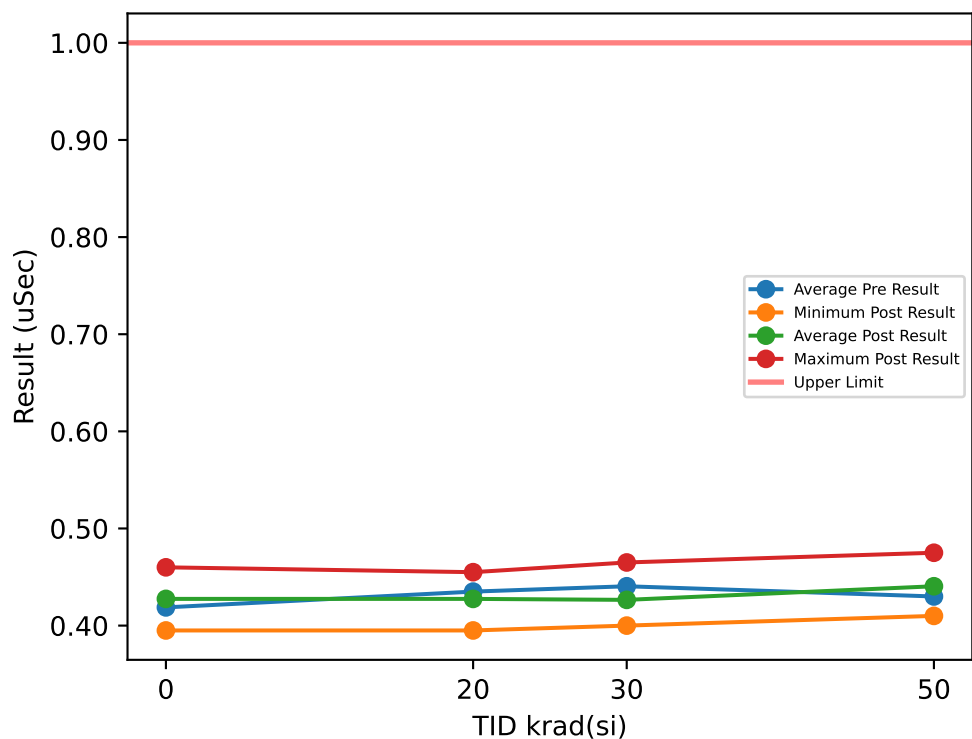


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.0 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|-----------|-------------|-------|
| 1 | 20 | Bias | 0.45 | 0.455 | 0.005 |
| 2 | 20 | Bias | 0.43 | 0.395 | -0.035 |
| 3 | 20 | Bias | 0.395 | 0.45 | 0.055 |
| 4 | 20 | Bias | 0.435 | 0.43 | -0.005 |
| 5 | 20 | Bias | 0.4 | 0.44 | 0.04 |
| 6 | 20 | Unbiased | 0.43 | 0.425 | -0.005 |
| 7 | 20 | Unbiased | 0.435 | 0.415 | -0.02 |
| 8 | 20 | Unbiased | 0.5 | 0.435 | -0.065 |
| 9 | 20 | Unbiased | 0.44 | 0.42 | -0.02 |
| 10 | 20 | Unbiased | 0.435 | 0.41 | -0.025 |
| 11 | 30 | Bias | 0.41 | 0.405 | -0.005 |
| 12 | 30 | Bias | 0.42 | 0.415 | -0.005 |
| 13 | 30 | Bias | 0.445 | 0.405 | -0.04 |
| 14 | 30 | Bias | 0.43 | 0.4 | -0.03 |
| 15 | 30 | Bias | 0.48 | 0.465 | -0.015 |
| 16 | 30 | Unbiased | 0.435 | 0.46 | 0.025 |
| 17 | 30 | Unbiased | 0.455 | 0.4 | -0.055 |
| 18 | 30 | Unbiased | 0.46 | 0.42 | -0.04 |
| 19 | 30 | Unbiased | 0.42 | 0.43 | 0.01 |
| 20 | 30 | Unbiased | 0.45 | 0.465 | 0.015 |
| 21 | 50 | Bias | 0.4 | 0.415 | 0.015 |
| 22 | 50 | Bias | 0.44 | 0.41 | -0.03 |
| 23 | 50 | Bias | 0.43 | 0.46 | 0.03 |
| 24 | 50 | Bias | 0.45 | 0.455 | 0.005 |
| 25 | 50 | Bias | 0.42 | 0.435 | 0.015 |
| 26 | 50 | Unbiased | 0.43 | 0.44 | 0.01 |
| 27 | 50 | Unbiased | 0.405 | 0.42 | 0.015 |
| 28 | 50 | Unbiased | 0.425 | 0.475 | 0.05 |
| 29 | 50 | Unbiased | 0.45 | 0.43 | -0.02 |
| 30 | 50 | Unbiased | 0.45 | 0.465 | 0.015 |
| 31 | 0 | Correlation | 0.42 | 0.43 | 0.01 |
| 32 | 0 | Correlation | 0.41 | 0.425 | 0.015 |
| 33 | 0 | Correlation | 0.42 | 0.46 | 0.04 |
| 34 | 0 | Correlation | 0.425 | 0.395 | -0.03 |

## Test Statistics (uSec)

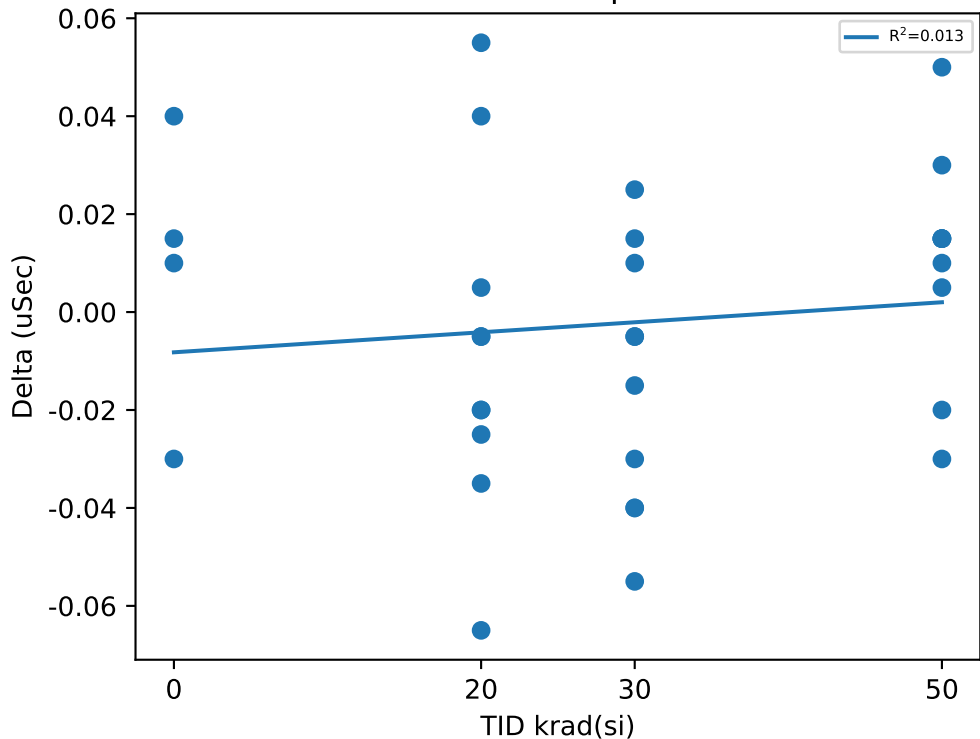| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.41 | 0.41875 | 0.425 | 0.0062915 | 0.395 | 0.4275 | 0.46 | 0.026615 | -0.03 | 0.00875 | 0.04 | 0.028976 |
| 20 | 0.395 | 0.435 | 0.5 | 0.028577 | 0.395 | 0.4275 | 0.455 | 0.018447 | -0.065 | -0.0075 | 0.055 | 0.03498 |
| 30 | 0.41 | 0.4405 | 0.48 | 0.021532 | 0.4 | 0.4265 | 0.465 | 0.027085 | -0.055 | -0.014 | 0.025 | 0.026646 |
| 50 | 0.4 | 0.43 | 0.45 | 0.018105 | 0.41 | 0.4405 | 0.475 | 0.022417 | -0.03 | 0.0105 | 0.05 | 0.022663 |

## TID vs Result Stats



## Test Results (Upper Limit = 1.0 (uSec))

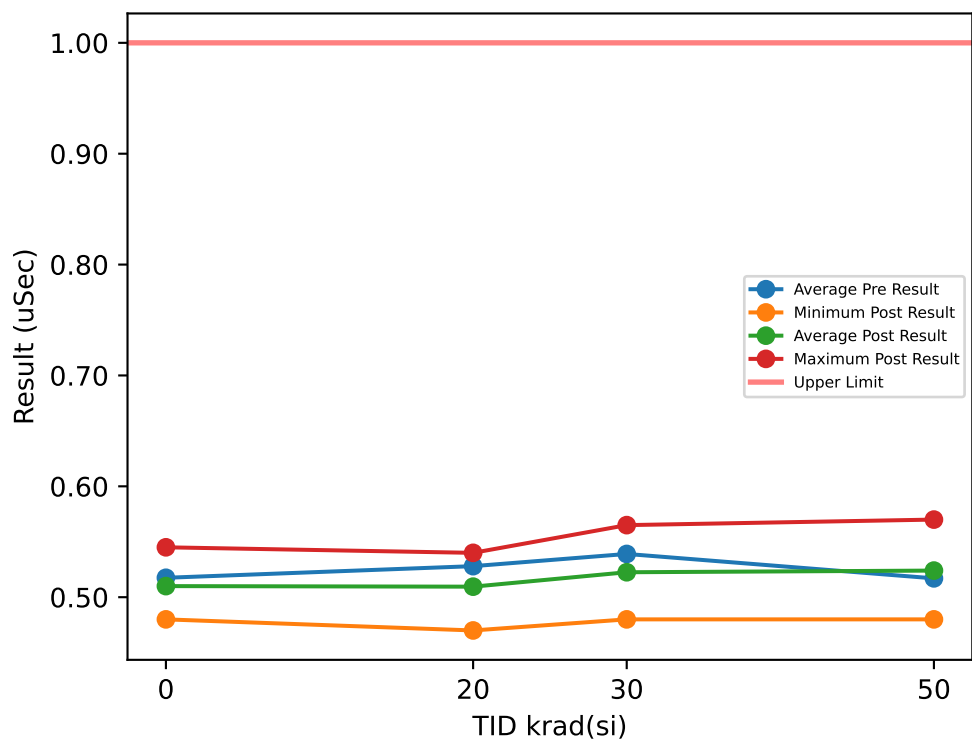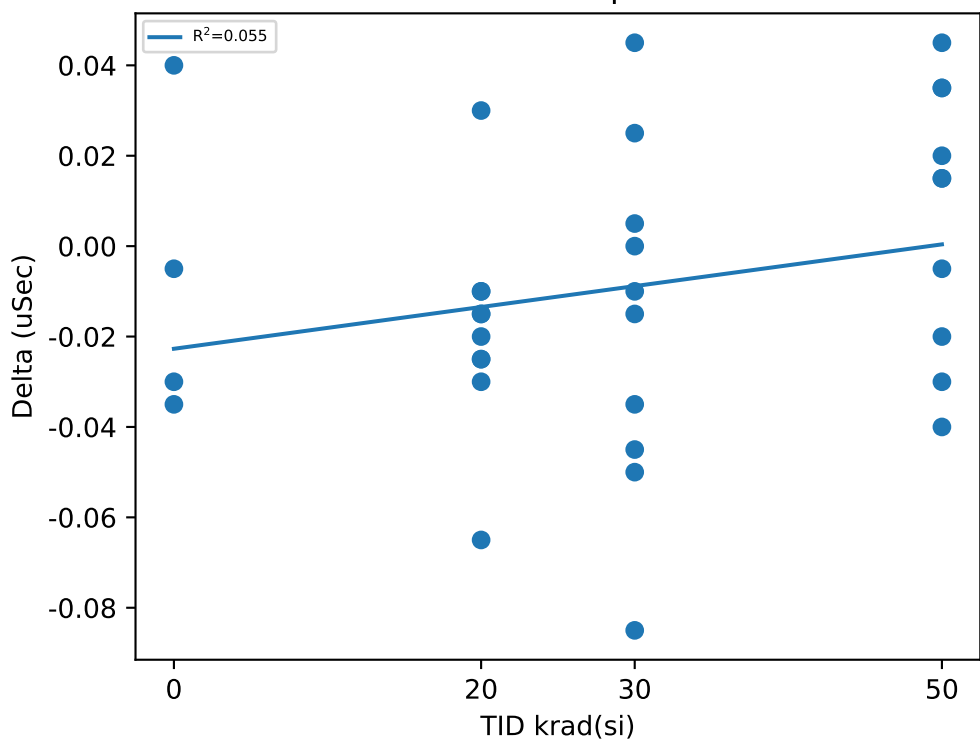| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.495 | 0.51 | 0.015 |
| 2 | 20 | Bias | 0.525 | 0.51 | -0.015 |
| 3 | 20 | Bias | 0.49 | 0.485 | -0.005 |
| 4 | 20 | Bias | 0.525 | 0.515 | -0.01 |
| 5 | 20 | Bias | 0.515 | 0.52 | 0.005 |
| 6 | 20 | Unbiased | 0.495 | 0.515 | 0.02 |
| 7 | 20 | Unbiased | 0.55 | 0.525 | -0.025 |
| 8 | 20 | Unbiased | 0.52 | 0.54 | 0.02 |
| 9 | 20 | Unbiased | 0.515 | 0.565 | 0.05 |
| 10 | 20 | Unbiased | 0.475 | 0.49 | 0.015 |
| 11 | 30 | Bias | 0.525 | 0.53 | 0.005 |
| 12 | 30 | Bias | 0.5 | 0.52 | 0.02 |
| 13 | 30 | Bias | 0.555 | 0.545 | -0.01 |
| 14 | 30 | Bias | 0.515 | 0.495 | -0.02 |
| 15 | 30 | Bias | 0.5 | 0.485 | -0.015 |
| 16 | 30 | Unbiased | 0.5 | 0.515 | 0.015 |
| 17 | 30 | Unbiased | 0.5 | 0.55 | 0.05 |
| 18 | 30 | Unbiased | 0.515 | 0.5 | -0.015 |
| 19 | 30 | Unbiased | 0.505 | 0.515 | 0.01 |
| 20 | 30 | Unbiased | 0.53 | 0.525 | -0.005 |
| 21 | 50 | Bias | 0.53 | 0.56 | 0.03 |
| 22 | 50 | Bias | 0.5 | 0.49 | -0.01 |
| 23 | 50 | Bias | 0.49 | 0.545 | 0.055 |
| 24 | 50 | Bias | 0.525 | 0.505 | -0.02 |
| 25 | 50 | Bias | 0.52 | 0.565 | 0.045 |
| 26 | 50 | Unbiased | 0.5 | 0.525 | 0.025 |
| 27 | 50 | Unbiased | 0.515 | 0.48 | -0.035 |
| 28 | 50 | Unbiased | 0.495 | 0.505 | 0.01 |
| 29 | 50 | Unbiased | 0.48 | 0.525 | 0.045 |
| 30 | 50 | Unbiased | 0.475 | 0.54 | 0.065 |
| 31 | 0 | Correlation | 0.545 | 0.54 | -0.005 |
| 32 | 0 | Correlation | 0.555 | 0.49 | -0.065 |
| 33 | 0 | Correlation | 0.49 | 0.545 | 0.055 |
| 34 | 0 | Correlation | 0.51 | 0.505 | -0.005 |

## TID vs Post - Pre Exposure Delta



## Test Statistics (uSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.49 | 0.525 | 0.555 | 0.030277 | 0.49 | 0.52 | 0.545 | 0.026771 | -0.065 | -0.005 | 0.055 | 0.04899 |
| 20 | 0.475 | 0.5105 | 0.55 | 0.021788 | 0.485 | 0.5175 | 0.565 | 0.023004 | -0.025 | 0.007 | 0.05 | 0.021756 |
| 30 | 0.5 | 0.5145 | 0.555 | 0.01802 | 0.485 | 0.518 | 0.55 | 0.020843 | -0.02 | 0.0035 | 0.05 | 0.02135 |
| 50 | 0.475 | 0.503 | 0.53 | 0.018886 | 0.48 | 0.524 | 0.565 | 0.028848 | -0.035 | 0.021 | 0.065 | 0.033731 |

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.0 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.475 | 0.505 | 0.03 |
| 2 | 20 | Bias | 0.535 | 0.47 | -0.065 |
| 3 | 20 | Bias | 0.505 | 0.49 | -0.015 |
| 4 | 20 | Bias | 0.515 | 0.495 | -0.02 |
| 5 | 20 | Bias | 0.56 | 0.535 | -0.025 |
| 6 | 20 | Unbiased | 0.535 | 0.505 | -0.03 |
| 7 | 20 | Unbiased | 0.565 | 0.54 | -0.025 |
| 8 | 20 | Unbiased | 0.53 | 0.52 | -0.01 |
| 9 | 20 | Unbiased | 0.55 | 0.535 | -0.015 |
| 10 | 20 | Unbiased | 0.51 | 0.5 | -0.01 |
| 11 | 30 | Bias | 0.58 | 0.495 | -0.085 |
| 12 | 30 | Bias | 0.535 | 0.5 | -0.035 |
| 13 | 30 | Bias | 0.535 | 0.535 | 0 |
| 14 | 30 | Bias | 0.525 | 0.48 | -0.045 |
| 15 | 30 | Bias | 0.53 | 0.515 | -0.015 |
| 16 | 30 | Unbiased | 0.54 | 0.53 | -0.01 |
| 17 | 30 | Unbiased | 0.53 | 0.535 | 0.005 |
| 18 | 30 | Unbiased | 0.52 | 0.565 | 0.045 |
| 19 | 30 | Unbiased | 0.57 | 0.52 | -0.05 |
| 20 | 30 | Unbiased | 0.525 | 0.55 | 0.025 |
| 21 | 50 | Bias | 0.515 | 0.51 | -0.005 |
| 22 | 50 | Bias | 0.51 | 0.53 | 0.02 |
| 23 | 50 | Bias | 0.575 | 0.535 | -0.04 |
| 24 | 50 | Bias | 0.515 | 0.495 | -0.02 |
| 25 | 50 | Bias | 0.505 | 0.54 | 0.035 |
| 26 | 50 | Unbiased | 0.555 | 0.57 | 0.015 |
| 27 | 50 | Unbiased | 0.495 | 0.51 | 0.015 |
| 28 | 50 | Unbiased | 0.495 | 0.53 | 0.035 |
| 29 | 50 | Unbiased | 0.495 | 0.54 | 0.045 |
| 30 | 50 | Unbiased | 0.51 | 0.48 | -0.03 |
| 31 | 0 | Correlation | 0.515 | 0.48 | -0.035 |
| 32 | 0 | Correlation | 0.545 | 0.515 | -0.03 |
| 33 | 0 | Correlation | 0.505 | 0.545 | 0.04 |
| 34 | 0 | Correlation | 0.505 | 0.5 | -0.005 |

## Test Statistics (uSec)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.505 | 0.5175 | 0.545 | 0.01893 | 0.48 | 0.51 | 0.545 | 0.027386 | -0.035 | -0.0075 | 0.04 | 0.034278 |
| 20 | 0.475 | 0.528 | 0.565 | 0.027508 | 0.47 | 0.5095 | 0.54 | 0.022663 | -0.065 | -0.0185 | 0.03 | 0.023339 |
| 30 | 0.52 | 0.539 | 0.58 | 0.019972 | 0.48 | 0.5225 | 0.565 | 0.025954 | -0.085 | -0.0165 | 0.045 | 0.038373 |
| 50 | 0.495 | 0.517 | 0.575 | 0.026895 | 0.48 | 0.524 | 0.57 | 0.025798 | -0.04 | 0.007 | 0.045 | 0.029364 |

## TID vs Result Stats
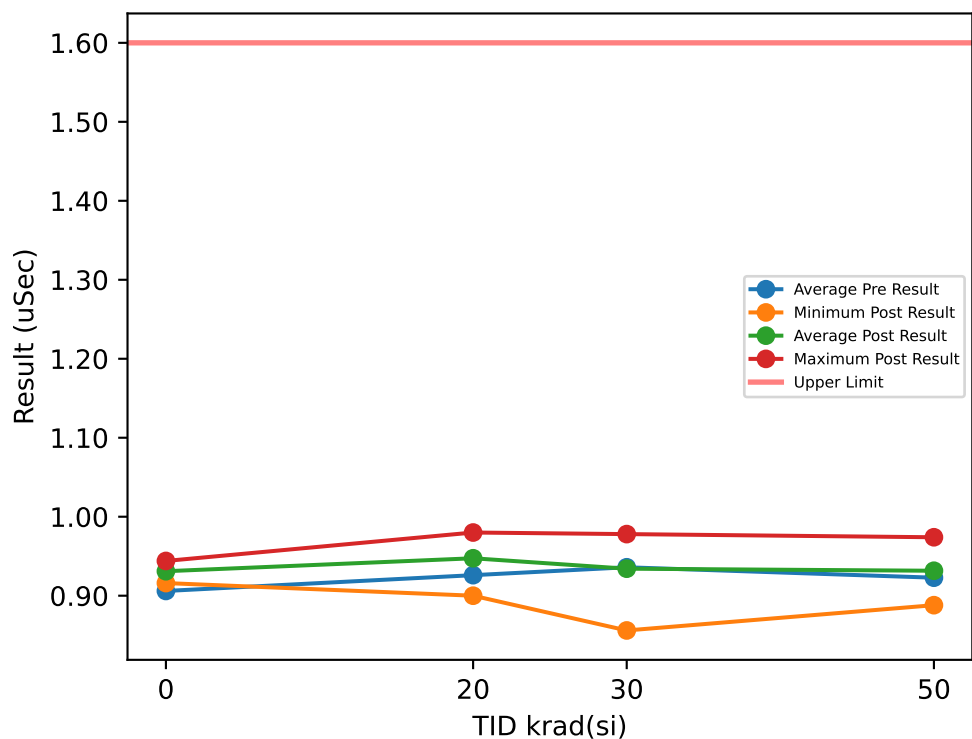


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.6 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.906 | 0.96 | 0.054 |
| 2 | 20 | Bias | 0.932 | 0.9 | -0.032 |
| 3 | 20 | Bias | 0.906 | 0.956 | 0.05 |
| 4 | 20 | Bias | 0.932 | 0.97 | 0.038 |
| 5 | 20 | Bias | 0.93 | 0.944 | 0.014 |
| 6 | 20 | Unbiased | 0.896 | 0.906 | 0.01 |
| 7 | 20 | Unbiased | 0.928 | 0.962 | 0.034 |
| 8 | 20 | Unbiased | 0.946 | 0.976 | 0.03 |
| 9 | 20 | Unbiased | 0.942 | 0.92 | -0.022 |
| 10 | 20 | Unbiased | 0.942 | 0.98 | 0.038 |
| 11 | 30 | Bias | 0.98 | 0.956 | -0.024 |
| 12 | 30 | Bias | 0.956 | 0.93 | -0.026 |
| 13 | 30 | Bias | 0.938 | 0.908 | -0.03 |
| 14 | 30 | Bias | 0.904 | 0.94 | 0.036 |
| 15 | 30 | Bias | 0.908 | 0.976 | 0.068 |
| 16 | 30 | Unbiased | 0.972 | 0.924 | -0.048 |
| 17 | 30 | Unbiased | 0.882 | 0.978 | 0.096 |
| 18 | 30 | Unbiased | 0.942 | 0.856 | -0.086 |
| 19 | 30 | Unbiased | 0.922 | 0.96 | 0.038 |
| 20 | 30 | Unbiased | 0.956 | 0.914 | -0.042 |
| 21 | 50 | Bias | 0.968 | 0.96 | -0.008 |
| 22 | 50 | Bias | 0.938 | 0.958 | 0.02 |
| 23 | 50 | Bias | 0.908 | 0.954 | 0.046 |
| 24 | 50 | Bias | 0.894 | 0.974 | 0.08 |
| 25 | 50 | Bias | 0.93 | 0.902 | -0.028 |
| 26 | 50 | Unbiased | 0.912 | 0.898 | -0.014 |
| 27 | 50 | Unbiased | 0.926 | 0.888 | -0.038 |
| 28 | 50 | Unbiased | 0.932 | 0.94 | 0.008 |
| 29 | 50 | Unbiased | 0.962 | 0.904 | -0.058 |
| 30 | 50 | Unbiased | 0.858 | 0.938 | 0.08 |
| 31 | 0 | Correlation | 0.924 | 0.93 | 0.006 |
| 32 | 0 | Correlation | 0.958 | 0.934 | -0.024 |
| 33 | 0 | Correlation | 0.826 | 0.944 | 0.118 |
| 34 | 0 | Correlation | 0.916 | 0.916 | 0 |

## Test Statistics (uSec)
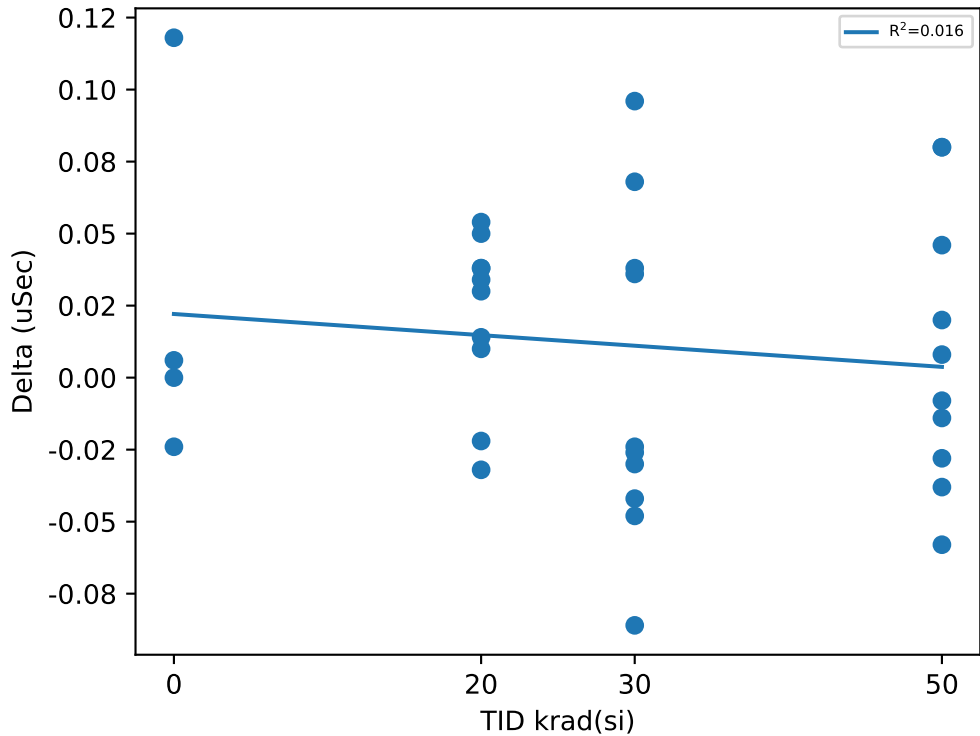
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.826 | 0.906 | 0.958 | 0.056356 | 0.916 | 0.931 | 0.944 | 0.011605 | -0.024 | 0.025 | 0.118 | 0.06334 |
| 20 | 0.896 | 0.926 | 0.946 | 0.017333 | 0.9 | 0.9474 | 0.98 | 0.028984 | -0.032 | 0.0214 | 0.054 | 0.029029 |
| 30 | 0.882 | 0.936 | 0.98 | 0.031609 | 0.856 | 0.9342 | 0.978 | 0.036775 | -0.086 | -0.0018 | 0.096 | 0.057892 |
| 50 | 0.858 | 0.9228 | 0.968 | 0.032183 | 0.888 | 0.9316 | 0.974 | 0.03088 | -0.058 | 0.0088 | 0.08 | 0.047677 |

## TID vs Result Stats
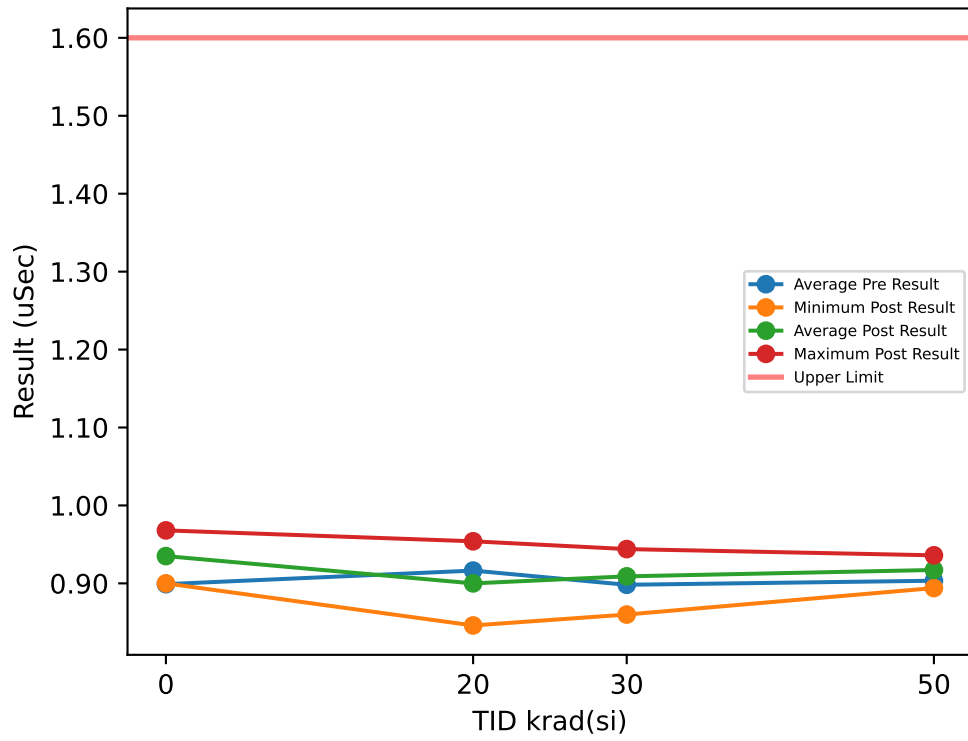


Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Upper Limit

## TID vs Post - Pre Exposure Delta



$R^2=0.000$

## Test Results (Upper Limit = 1.6 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.902 | 0.94 | 0.038 |
| 2 | 20 | Bias | 0.942 | 0.954 | 0.012 |
| 3 | 20 | Bias | 0.9 | 0.908 | 0.008 |
| 4 | 20 | Bias | 0.984 | 0.898 | -0.086 |
| 5 | 20 | Bias | 0.908 | 0.888 | -0.02 |
| 6 | 20 | Unbiased | 0.96 | 0.88 | -0.08 |
| 7 | 20 | Unbiased | 0.836 | 0.846 | 0.01 |
| 8 | 20 | Unbiased | 0.91 | 0.942 | 0.032 |
| 9 | 20 | Unbiased | 0.912 | 0.88 | -0.032 |
| 10 | 20 | Unbiased | 0.91 | 0.864 | -0.046 |
| 11 | 30 | Bias | 0.914 | 0.93 | 0.016 |
| 12 | 30 | Bias | 0.894 | 0.938 | 0.044 |
| 13 | 30 | Bias | 0.932 | 0.886 | -0.046 |
| 14 | 30 | Bias | 0.894 | 0.91 | 0.016 |
| 15 | 30 | Bias | 0.86 | 0.896 | 0.036 |
| 16 | 30 | Unbiased | 0.888 | 0.928 | 0.04 |
| 17 | 30 | Unbiased | 0.904 | 0.944 | 0.04 |
| 18 | 30 | Unbiased | 0.918 | 0.896 | -0.022 |
| 19 | 30 | Unbiased | 0.902 | 0.86 | -0.042 |
| 20 | 30 | Unbiased | 0.876 | 0.902 | 0.026 |
| 21 | 50 | Bias | 0.94 | 0.924 | -0.016 |
| 22 | 50 | Bias | 0.894 | 0.928 | 0.034 |
| 23 | 50 | Bias | 0.858 | 0.92 | 0.062 |
| 24 | 50 | Bias | 0.912 | 0.894 | -0.018 |
| 25 | 50 | Bias | 0.9 | 0.9 | 0 |
| 26 | 50 | Unbiased | 0.934 | 0.912 | -0.022 |
| 27 | 50 | Unbiased | 0.894 | 0.91 | 0.016 |
| 28 | 50 | Unbiased | 0.87 | 0.916 | 0.046 |
| 29 | 50 | Unbiased | 0.932 | 0.936 | 0.004 |
| 30 | 50 | Unbiased | 0.9 | 0.932 | 0.032 |
| 31 | 0 | Correlation | 0.886 | 0.926 | 0.04 |
| 32 | 0 | Correlation | 0.878 | 0.9 | 0.022 |
| 33 | 0 | Correlation | 0.908 | 0.946 | 0.038 |
| 34 | 0 | Correlation | 0.924 | 0.968 | 0.044 |

## Test Statistics (uSec)
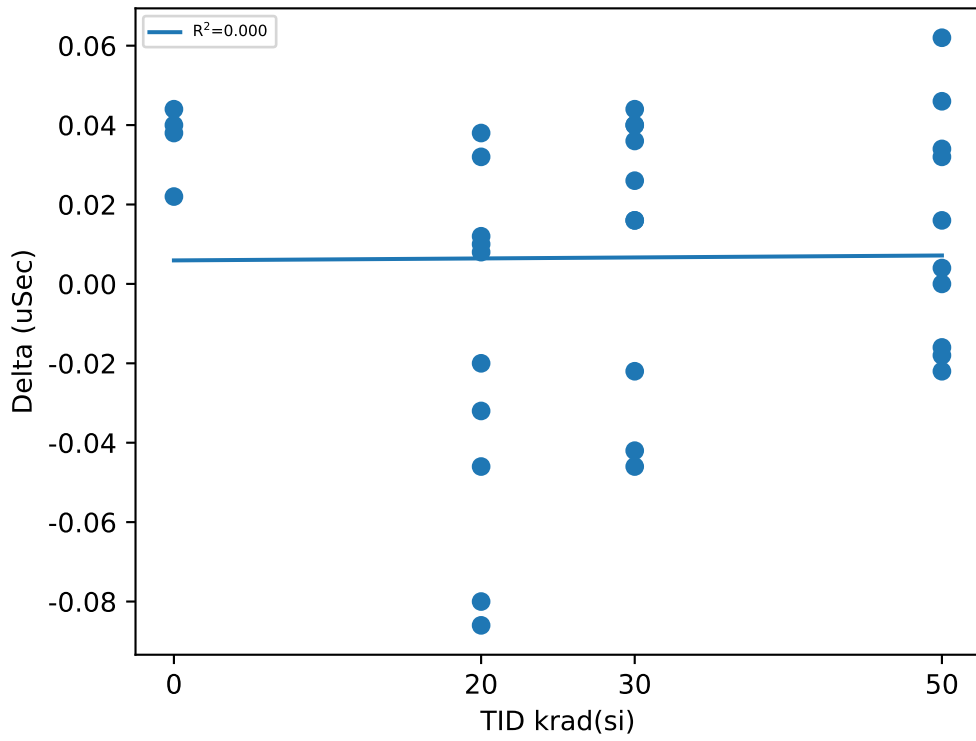
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.878 | 0.899 | 0.924 | 0.020944 | 0.9 | 0.935 | 0.968 | 0.02896 | 0.022 | 0.036 | 0.044 | 0.0096609 |
| 20 | 0.836 | 0.9164 | 0.984 | 0.039775 | 0.846 | 0.9 | 0.954 | 0.035752 | -0.086 | -0.0164 | 0.038 | 0.043998 |
| 30 | 0.86 | 0.8982 | 0.932 | 0.02088 | 0.86 | 0.909 | 0.944 | 0.026217 | -0.046 | 0.0108 | 0.044 | 0.034669 |
| 50 | 0.858 | 0.9034 | 0.94 | 0.026966 | 0.894 | 0.9172 | 0.936 | 0.013571 | -0.022 | 0.0138 | 0.062 | 0.029005 |

## TID vs Result Stats
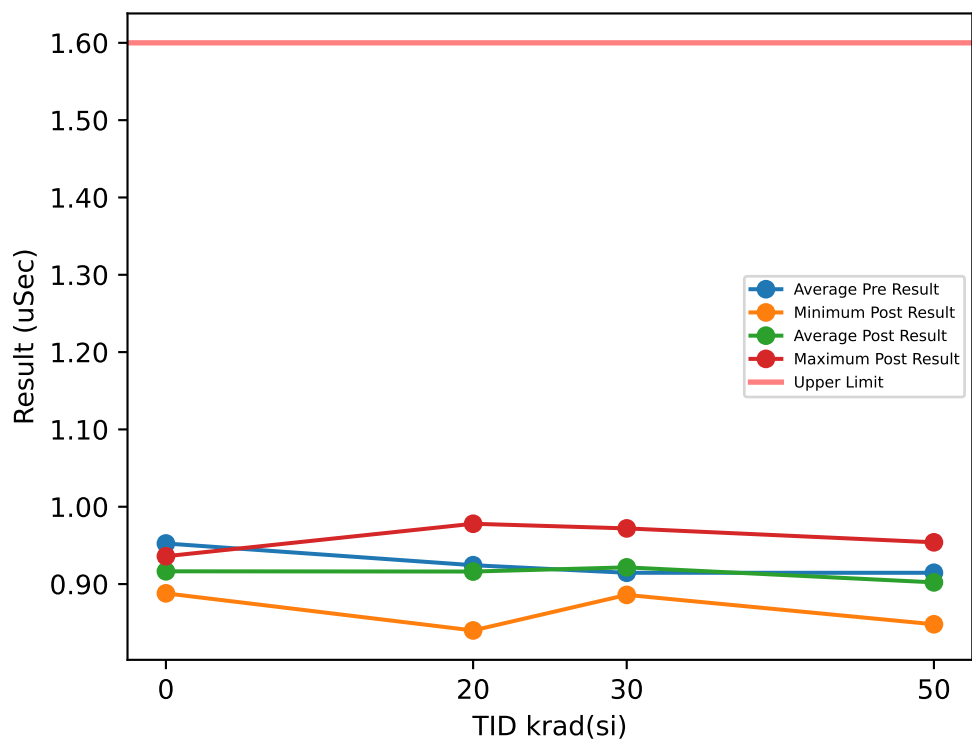


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.6 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.908 | 0.942 | 0.034 |
| 2 | 20 | Bias | 0.914 | 0.978 | 0.064 |
| 3 | 20 | Bias | 0.94 | 0.894 | -0.046 |
| 4 | 20 | Bias | 0.964 | 0.934 | -0.03 |
| 5 | 20 | Bias | 0.892 | 0.912 | 0.02 |
| 6 | 20 | Unbiased | 0.922 | 0.894 | -0.028 |
| 7 | 20 | Unbiased | 0.888 | 0.84 | -0.048 |
| 8 | 20 | Unbiased | 0.978 | 0.952 | -0.026 |
| 9 | 20 | Unbiased | 0.886 | 0.884 | -0.002 |
| 10 | 20 | Unbiased | 0.952 | 0.932 | -0.02 |
| 11 | 30 | Bias | 0.912 | 0.972 | 0.06 |
| 12 | 30 | Bias | 0.918 | 0.904 | -0.014 |
| 13 | 30 | Bias | 0.908 | 0.928 | 0.02 |
| 14 | 30 | Bias | 0.93 | 0.944 | 0.014 |
| 15 | 30 | Bias | 0.918 | 0.906 | -0.012 |
| 16 | 30 | Unbiased | 0.898 | 0.886 | -0.012 |
| 17 | 30 | Unbiased | 0.93 | 0.918 | -0.012 |
| 18 | 30 | Unbiased | 0.894 | 0.89 | -0.004 |
| 19 | 30 | Unbiased | 0.922 | 0.94 | 0.018 |
| 20 | 30 | Unbiased | 0.916 | 0.928 | 0.012 |
| 21 | 50 | Bias | 0.94 | 0.922 | -0.018 |
| 22 | 50 | Bias | 0.922 | 0.902 | -0.02 |
| 23 | 50 | Bias | 0.892 | 0.954 | 0.062 |
| 24 | 50 | Bias | 0.928 | 0.908 | -0.02 |
| 25 | 50 | Bias | 0.904 | 0.854 | -0.05 |
| 26 | 50 | Unbiased | 0.886 | 0.86 | -0.026 |
| 27 | 50 | Unbiased | 0.894 | 0.938 | 0.044 |
| 28 | 50 | Unbiased | 0.926 | 0.848 | -0.078 |
| 29 | 50 | Unbiased | 0.964 | 0.914 | -0.05 |
| 30 | 50 | Unbiased | 0.89 | 0.922 | 0.032 |
| 31 | 0 | Correlation | 0.97 | 0.888 | -0.082 |
| 32 | 0 | Correlation | 0.966 | 0.93 | -0.036 |
| 33 | 0 | Correlation | 0.94 | 0.912 | -0.028 |
| 34 | 0 | Correlation | 0.934 | 0.936 | 0.002 |

## Test Statistics (uSec)
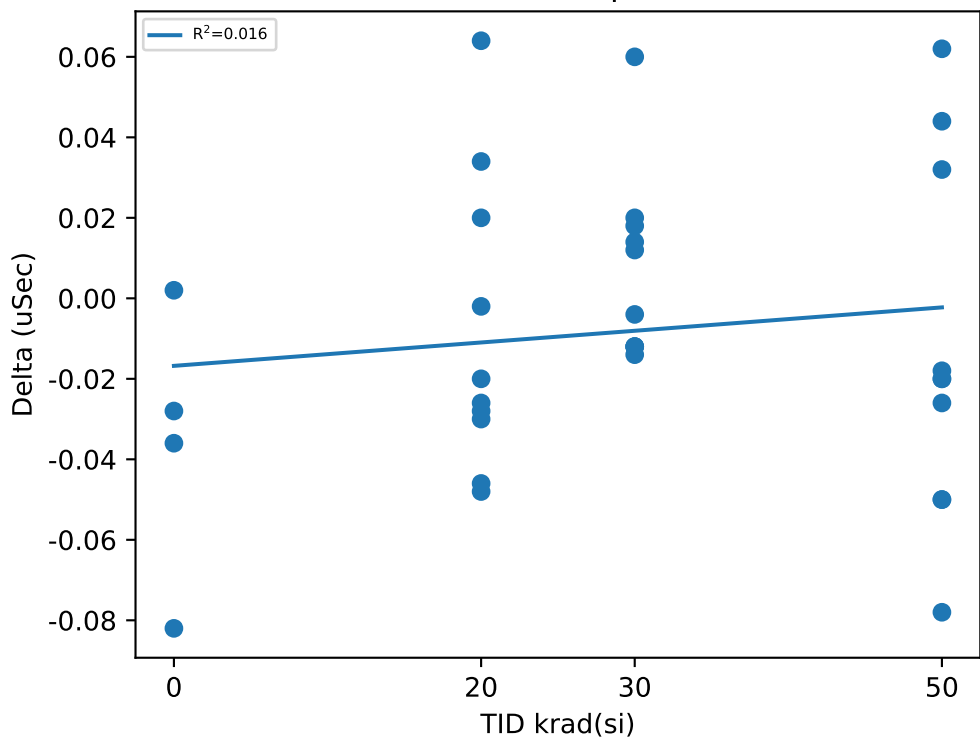
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.934 | 0.9525 | 0.97 | 0.018138 | 0.888 | 0.9165 | 0.936 | 0.021564 | -0.082 | -0.036 | 0.002 | 0.034756 |
| 20 | 0.886 | 0.9244 | 0.978 | 0.032793 | 0.84 | 0.9162 | 0.978 | 0.039693 | -0.048 | -0.0082 | 0.064 | 0.036763 |
| 30 | 0.894 | 0.9146 | 0.93 | 0.012039 | 0.886 | 0.9216 | 0.972 | 0.026446 | -0.014 | 0.007 | 0.06 | 0.023137 |
| 50 | 0.886 | 0.9146 | 0.964 | 0.025648 | 0.848 | 0.9022 | 0.954 | 0.036459 | -0.078 | -0.0124 | 0.062 | 0.044908 |

## TID vs Result Stats
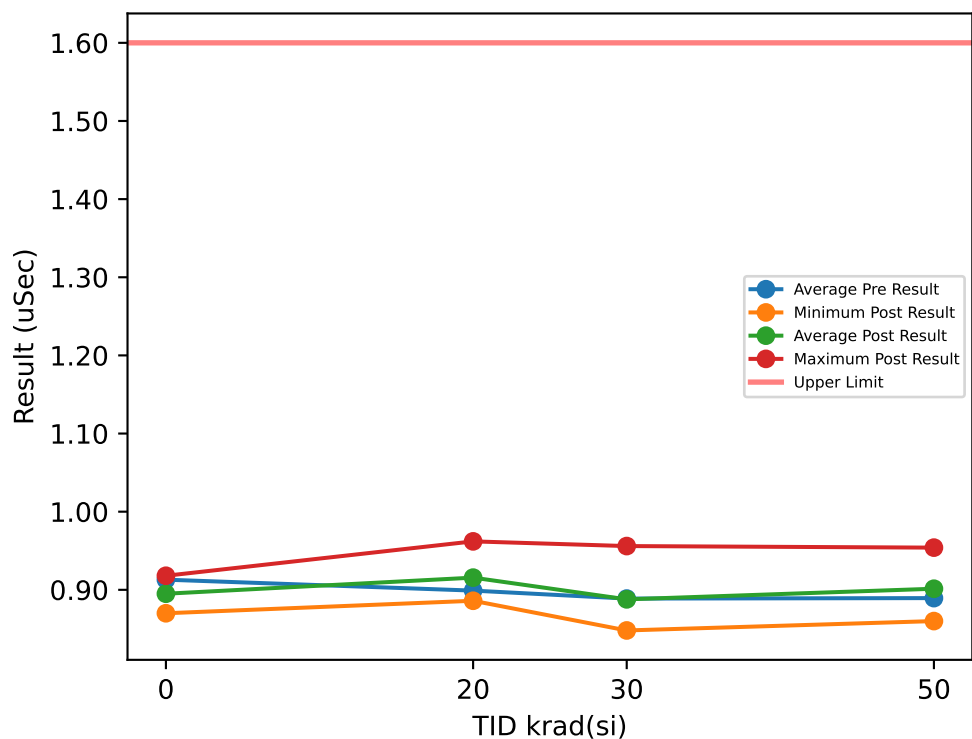


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.6 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.894 | 0.928 | 0.034 |
| 2 | 20 | Bias | 0.876 | 0.888 | 0.012 |
| 3 | 20 | Bias | 0.876 | 0.904 | 0.028 |
| 4 | 20 | Bias | 0.97 | 0.926 | -0.044 |
| 5 | 20 | Bias | 0.896 | 0.92 | 0.024 |
| 6 | 20 | Unbiased | 0.88 | 0.886 | 0.006 |
| 7 | 20 | Unbiased | 0.862 | 0.908 | 0.046 |
| 8 | 20 | Unbiased | 0.928 | 0.962 | 0.034 |
| 9 | 20 | Unbiased | 0.89 | 0.888 | -0.002 |
| 10 | 20 | Unbiased | 0.918 | 0.946 | 0.028 |
| 11 | 30 | Bias | 0.898 | 0.894 | -0.004 |
| 12 | 30 | Bias | 0.86 | 0.956 | 0.096 |
| 13 | 30 | Bias | 0.858 | 0.848 | -0.01 |
| 14 | 30 | Bias | 0.878 | 0.88 | 0.002 |
| 15 | 30 | Bias | 0.924 | 0.876 | -0.048 |
| 16 | 30 | Unbiased | 0.93 | 0.88 | -0.05 |
| 17 | 30 | Unbiased | 0.89 | 0.88 | -0.01 |
| 18 | 30 | Unbiased | 0.844 | 0.886 | 0.042 |
| 19 | 30 | Unbiased | 0.92 | 0.88 | -0.04 |
| 20 | 30 | Unbiased | 0.886 | 0.898 | 0.012 |
| 21 | 50 | Bias | 0.874 | 0.902 | 0.028 |
| 22 | 50 | Bias | 0.934 | 0.954 | 0.02 |
| 23 | 50 | Bias | 0.904 | 0.906 | 0.002 |
| 24 | 50 | Bias | 0.934 | 0.912 | -0.022 |
| 25 | 50 | Bias | 0.86 | 0.86 | 0 |
| 26 | 50 | Unbiased | 0.81 | 0.932 | 0.122 |
| 27 | 50 | Unbiased | 0.922 | 0.908 | -0.014 |
| 28 | 50 | Unbiased | 0.924 | 0.864 | -0.06 |
| 29 | 50 | Unbiased | 0.872 | 0.894 | 0.022 |
| 30 | 50 | Unbiased | 0.86 | 0.882 | 0.022 |
| 31 | 0 | Correlation | 0.932 | 0.918 | -0.014 |
| 32 | 0 | Correlation | 0.944 | 0.91 | -0.034 |
| 33 | 0 | Correlation | 0.884 | 0.87 | -0.014 |
| 34 | 0 | Correlation | 0.892 | 0.882 | -0.01 |

## Test Statistics (uSec)
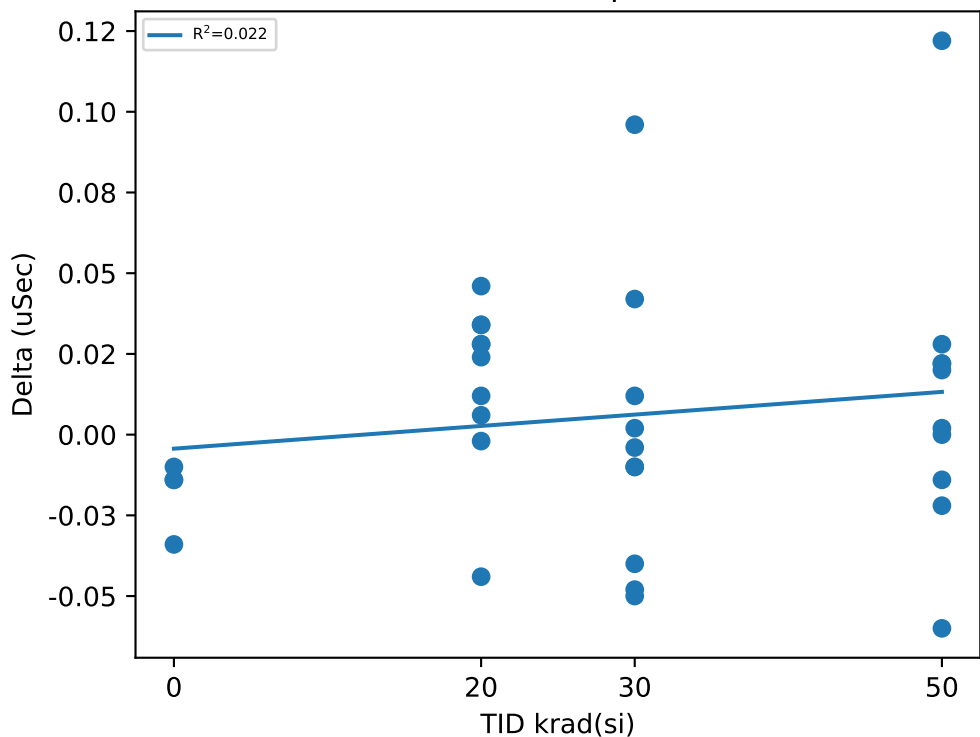
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.884 | 0.913 | 0.944 | 0.029462 | 0.87 | 0.895 | 0.918 | 0.022716 | -0.034 | -0.018 | -0.01 | 0.010832 |
| 20 | 0.862 | 0.899 | 0.97 | 0.031878 | 0.886 | 0.9156 | 0.962 | 0.025713 | -0.044 | 0.0166 | 0.046 | 0.025683 |
| 30 | 0.844 | 0.8888 | 0.93 | 0.029638 | 0.848 | 0.8878 | 0.956 | 0.027414 | -0.05 | -0.001 | 0.096 | 0.044395 |
| 50 | 0.81 | 0.8894 | 0.934 | 0.040858 | 0.86 | 0.9014 | 0.954 | 0.028722 | -0.06 | 0.012 | 0.122 | 0.046999 |

## TID vs Result Stats
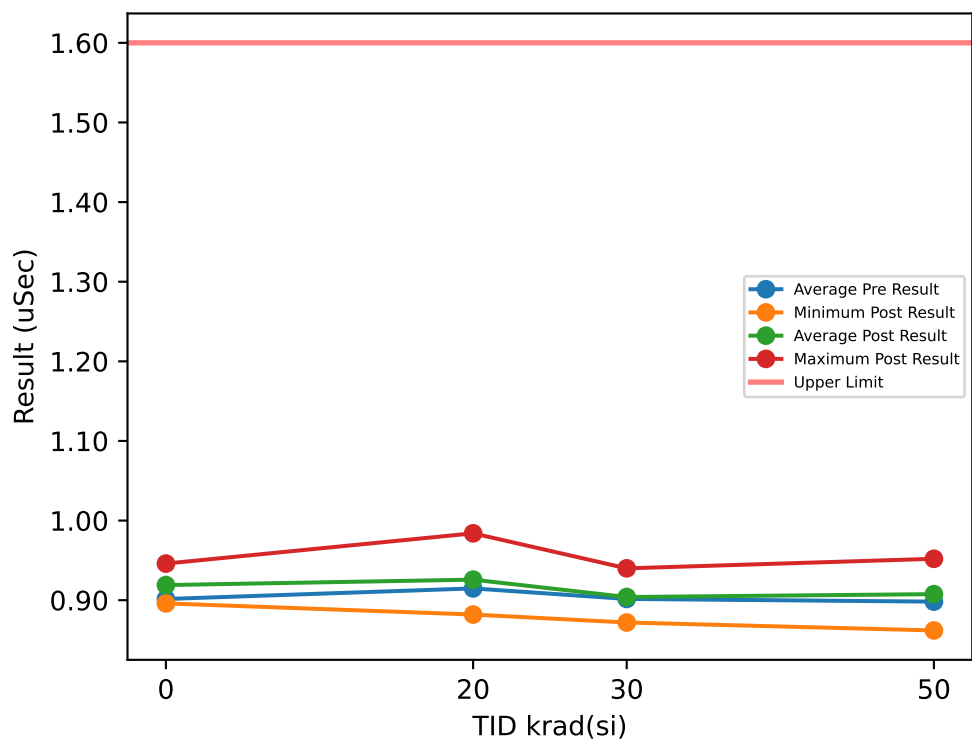


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.6 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.934 | 0.906 | -0.028 |
| 2 | 20 | Bias | 0.922 | 0.984 | 0.062 |
| 3 | 20 | Bias | 0.922 | 0.892 | -0.03 |
| 4 | 20 | Bias | 0.966 | 0.952 | -0.014 |
| 5 | 20 | Bias | 0.898 | 0.928 | 0.03 |
| 6 | 20 | Unbiased | 0.894 | 0.882 | -0.012 |
| 7 | 20 | Unbiased | 0.89 | 0.914 | 0.024 |
| 8 | 20 | Unbiased | 0.938 | 0.91 | -0.028 |
| 9 | 20 | Unbiased | 0.856 | 0.936 | 0.08 |
| 10 | 20 | Unbiased | 0.928 | 0.954 | 0.026 |
| 11 | 30 | Bias | 0.902 | 0.91 | 0.008 |
| 12 | 30 | Bias | 0.936 | 0.928 | -0.008 |
| 13 | 30 | Bias | 0.876 | 0.91 | 0.034 |
| 14 | 30 | Bias | 0.908 | 0.908 | 0 |
| 15 | 30 | Bias | 0.868 | 0.882 | 0.014 |
| 16 | 30 | Unbiased | 0.946 | 0.872 | -0.074 |
| 17 | 30 | Unbiased | 0.878 | 0.94 | 0.062 |
| 18 | 30 | Unbiased | 0.898 | 0.886 | -0.012 |
| 19 | 30 | Unbiased | 0.892 | 0.9 | 0.008 |
| 20 | 30 | Unbiased | 0.912 | 0.904 | -0.008 |
| 21 | 50 | Bias | 0.938 | 0.95 | 0.012 |
| 22 | 50 | Bias | 0.934 | 0.884 | -0.05 |
| 23 | 50 | Bias | 0.89 | 0.952 | 0.062 |
| 24 | 50 | Bias | 0.892 | 0.882 | -0.01 |
| 25 | 50 | Bias | 0.894 | 0.914 | 0.02 |
| 26 | 50 | Unbiased | 0.856 | 0.862 | 0.006 |
| 27 | 50 | Unbiased | 0.878 | 0.91 | 0.032 |
| 28 | 50 | Unbiased | 0.892 | 0.912 | 0.02 |
| 29 | 50 | Unbiased | 0.916 | 0.926 | 0.01 |
| 30 | 50 | Unbiased | 0.892 | 0.884 | -0.008 |
| 31 | 0 | Correlation | 0.902 | 0.946 | 0.044 |
| 32 | 0 | Correlation | 0.9 | 0.896 | -0.004 |
| 33 | 0 | Correlation | 0.904 | 0.91 | 0.006 |
| 34 | 0 | Correlation | 0.9 | 0.924 | 0.024 |

## Test Statistics (uSec)
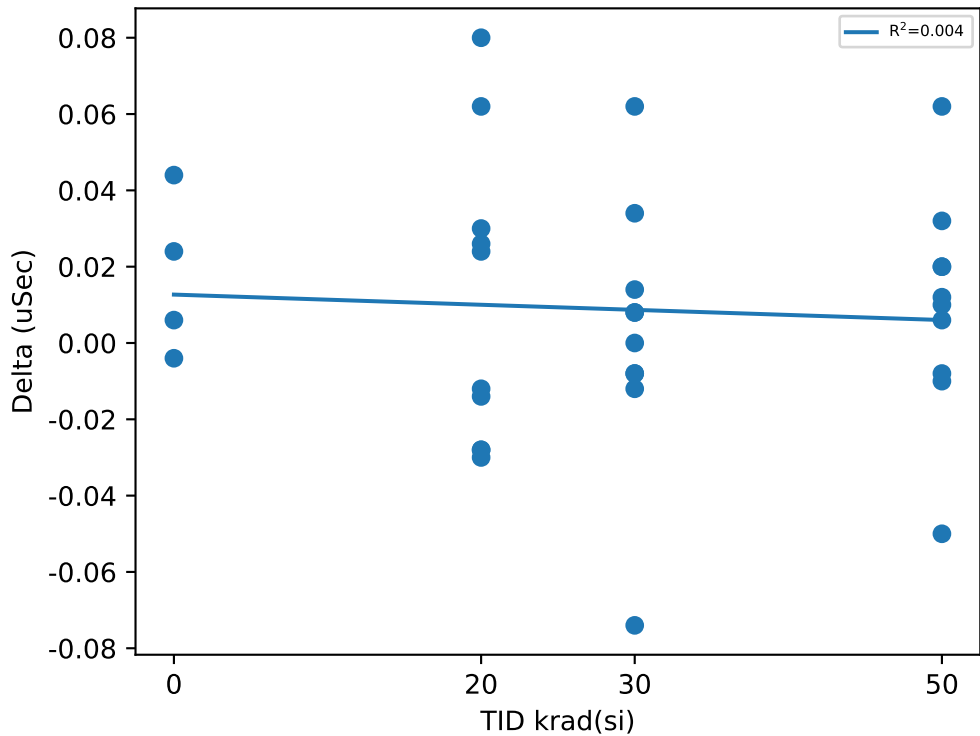
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.9 | 0.9015 | 0.904 | 0.0019149 | 0.896 | 0.919 | 0.946 | 0.021323 | -0.004 | 0.0175 | 0.044 | 0.021127 |
| 20 | 0.856 | 0.9148 | 0.966 | 0.030901 | 0.882 | 0.9258 | 0.984 | 0.031304 | -0.03 | 0.011 | 0.08 | 0.039432 |
| 30 | 0.868 | 0.9016 | 0.946 | 0.025277 | 0.872 | 0.904 | 0.94 | 0.02057 | -0.074 | 0.0024 | 0.062 | 0.034983 |
| 50 | 0.856 | 0.8982 | 0.938 | 0.024881 | 0.862 | 0.9076 | 0.952 | 0.029856 | -0.05 | 0.0094 | 0.062 | 0.029304 |

## TID vs Result Stats
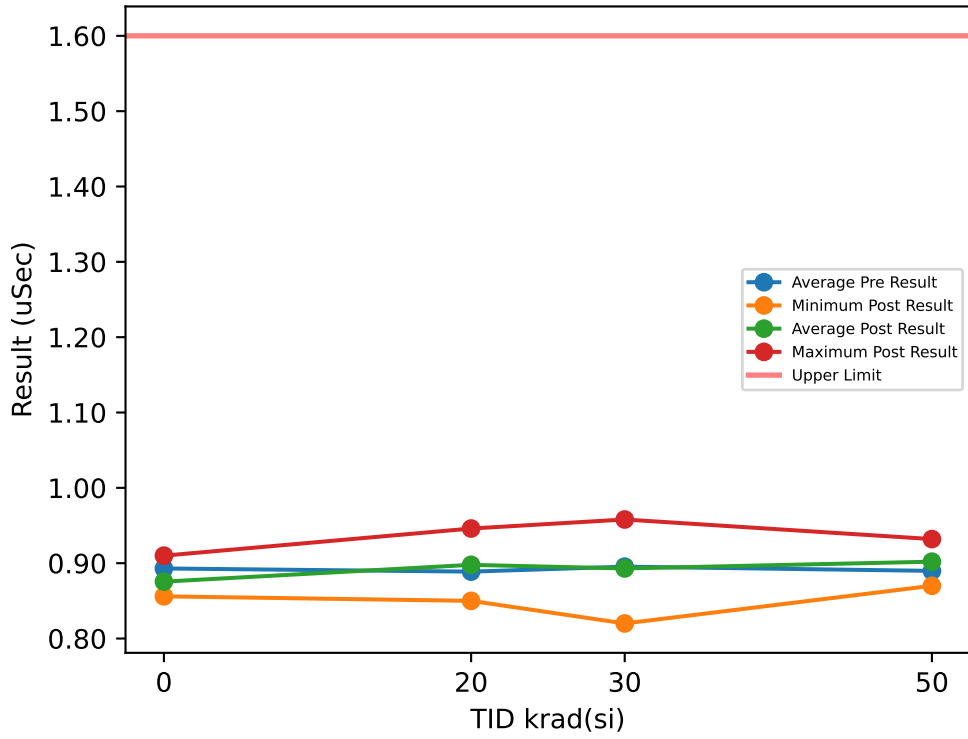


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.6 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.908 | 0.946 | 0.038 |
| 2 | 20 | Bias | 0.884 | 0.912 | 0.028 |
| 3 | 20 | Bias | 0.902 | 0.878 | -0.024 |
| 4 | 20 | Bias | 0.912 | 0.918 | 0.006 |
| 5 | 20 | Bias | 0.878 | 0.85 | -0.028 |
| 6 | 20 | Unbiased | 0.912 | 0.91 | -0.002 |
| 7 | 20 | Unbiased | 0.826 | 0.858 | 0.032 |
| 8 | 20 | Unbiased | 0.936 | 0.924 | -0.012 |
| 9 | 20 | Unbiased | 0.814 | 0.86 | 0.046 |
| 10 | 20 | Unbiased | 0.916 | 0.922 | 0.006 |
| 11 | 30 | Bias | 0.922 | 0.954 | 0.032 |
| 12 | 30 | Bias | 0.914 | 0.958 | 0.044 |
| 13 | 30 | Bias | 0.862 | 0.82 | -0.042 |
| 14 | 30 | Bias | 0.87 | 0.898 | 0.028 |
| 15 | 30 | Bias | 0.886 | 0.874 | -0.012 |
| 16 | 30 | Unbiased | 0.896 | 0.878 | -0.018 |
| 17 | 30 | Unbiased | 0.924 | 0.92 | -0.004 |
| 18 | 30 | Unbiased | 0.882 | 0.86 | -0.022 |
| 19 | 30 | Unbiased | 0.898 | 0.882 | -0.016 |
| 20 | 30 | Unbiased | 0.9 | 0.886 | -0.014 |
| 21 | 50 | Bias | 0.894 | 0.906 | 0.012 |
| 22 | 50 | Bias | 0.898 | 0.902 | 0.004 |
| 23 | 50 | Bias | 0.868 | 0.918 | 0.05 |
| 24 | 50 | Bias | 0.914 | 0.87 | -0.044 |
| 25 | 50 | Bias | 0.914 | 0.932 | 0.018 |
| 26 | 50 | Unbiased | 0.894 | 0.89 | -0.004 |
| 27 | 50 | Unbiased | 0.878 | 0.906 | 0.028 |
| 28 | 50 | Unbiased | 0.896 | 0.888 | -0.008 |
| 29 | 50 | Unbiased | 0.884 | 0.888 | 0.004 |
| 30 | 50 | Unbiased | 0.858 | 0.92 | 0.062 |
| 31 | 0 | Correlation | 0.89 | 0.91 | 0.02 |
| 32 | 0 | Correlation | 0.918 | 0.856 | -0.062 |
| 33 | 0 | Correlation | 0.888 | 0.88 | -0.008 |
| 34 | 0 | Correlation | 0.876 | 0.856 | -0.02 |

## Test Statistics (uSec)
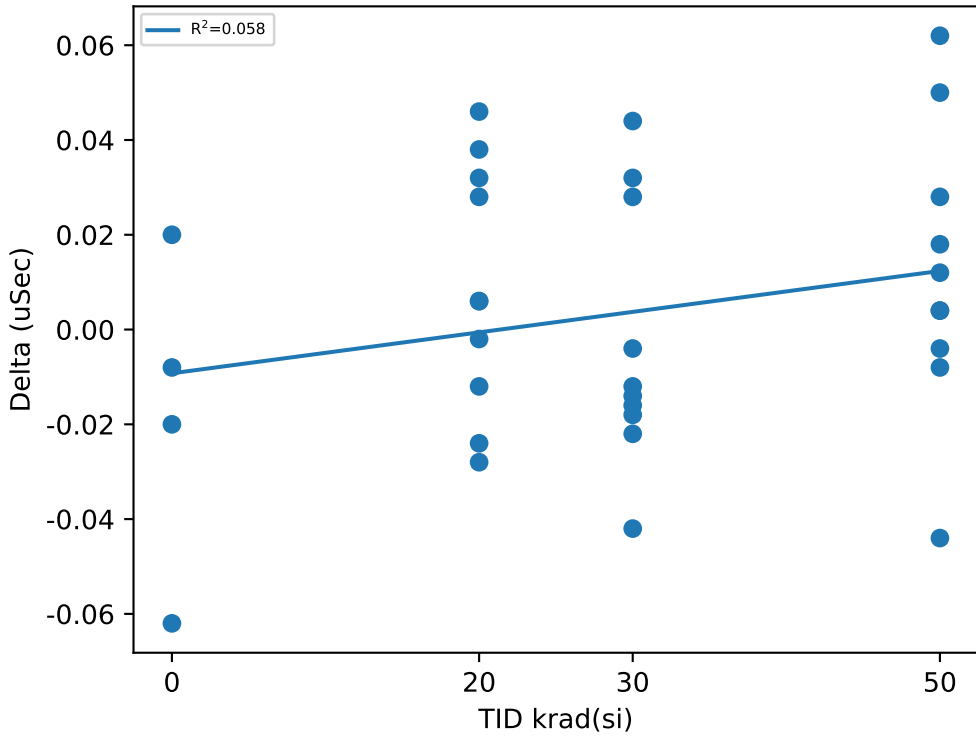
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.876 | 0.893 | 0.918 | 0.017776 | 0.856 | 0.8755 | 0.91 | 0.025632 | -0.062 | -0.0175 | 0.02 | 0.034073 |
| 20 | 0.814 | 0.8888 | 0.936 | 0.039813 | 0.85 | 0.8978 | 0.946 | 0.033406 | -0.028 | 0.009 | 0.046 | 0.026115 |
| 30 | 0.862 | 0.8954 | 0.924 | 0.020892 | 0.82 | 0.893 | 0.958 | 0.041997 | -0.042 | -0.0024 | 0.044 | 0.027629 |
| 50 | 0.858 | 0.8898 | 0.914 | 0.018171 | 0.87 | 0.902 | 0.932 | 0.018475 | -0.044 | 0.0122 | 0.062 | 0.030103 |

## TID vs Result Stats
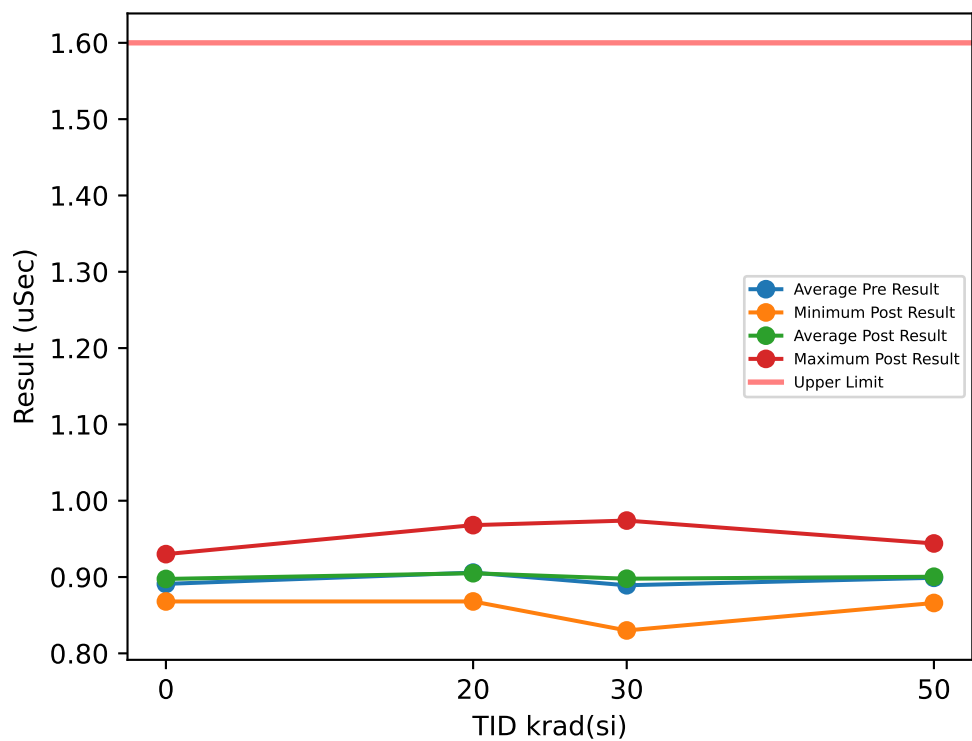


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.6 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.908 | 0.93 | 0.022 |
| 2 | 20 | Bias | 0.878 | 0.968 | 0.09 |
| 3 | 20 | Bias | 0.95 | 0.88 | -0.07 |
| 4 | 20 | Bias | 0.962 | 0.932 | -0.03 |
| 5 | 20 | Bias | 0.902 | 0.904 | 0.002 |
| 6 | 20 | Unbiased | 0.894 | 0.868 | -0.026 |
| 7 | 20 | Unbiased | 0.852 | 0.88 | 0.028 |
| 8 | 20 | Unbiased | 0.932 | 0.902 | -0.03 |
| 9 | 20 | Unbiased | 0.882 | 0.878 | -0.004 |
| 10 | 20 | Unbiased | 0.898 | 0.908 | 0.01 |
| 11 | 30 | Bias | 0.916 | 0.896 | -0.02 |
| 12 | 30 | Bias | 0.882 | 0.974 | 0.092 |
| 13 | 30 | Bias | 0.9 | 0.878 | -0.022 |
| 14 | 30 | Bias | 0.902 | 0.914 | 0.012 |
| 15 | 30 | Bias | 0.864 | 0.926 | 0.062 |
| 16 | 30 | Unbiased | 0.904 | 0.9 | -0.004 |
| 17 | 30 | Unbiased | 0.852 | 0.928 | 0.076 |
| 18 | 30 | Unbiased | 0.878 | 0.894 | 0.016 |
| 19 | 30 | Unbiased | 0.896 | 0.83 | -0.066 |
| 20 | 30 | Unbiased | 0.898 | 0.838 | -0.06 |
| 21 | 50 | Bias | 0.866 | 0.936 | 0.07 |
| 22 | 50 | Bias | 0.888 | 0.932 | 0.044 |
| 23 | 50 | Bias | 0.888 | 0.944 | 0.056 |
| 24 | 50 | Bias | 0.926 | 0.908 | -0.018 |
| 25 | 50 | Bias | 0.888 | 0.866 | -0.022 |
| 26 | 50 | Unbiased | 0.904 | 0.87 | -0.034 |
| 27 | 50 | Unbiased | 0.864 | 0.888 | 0.024 |
| 28 | 50 | Unbiased | 0.906 | 0.898 | -0.008 |
| 29 | 50 | Unbiased | 0.94 | 0.87 | -0.07 |
| 30 | 50 | Unbiased | 0.92 | 0.892 | -0.028 |
| 31 | 0 | Correlation | 0.892 | 0.868 | -0.024 |
| 32 | 0 | Correlation | 0.9 | 0.882 | -0.018 |
| 33 | 0 | Correlation | 0.89 | 0.91 | 0.02 |
| 34 | 0 | Correlation | 0.882 | 0.93 | 0.048 |

## Test Statistics (uSec)
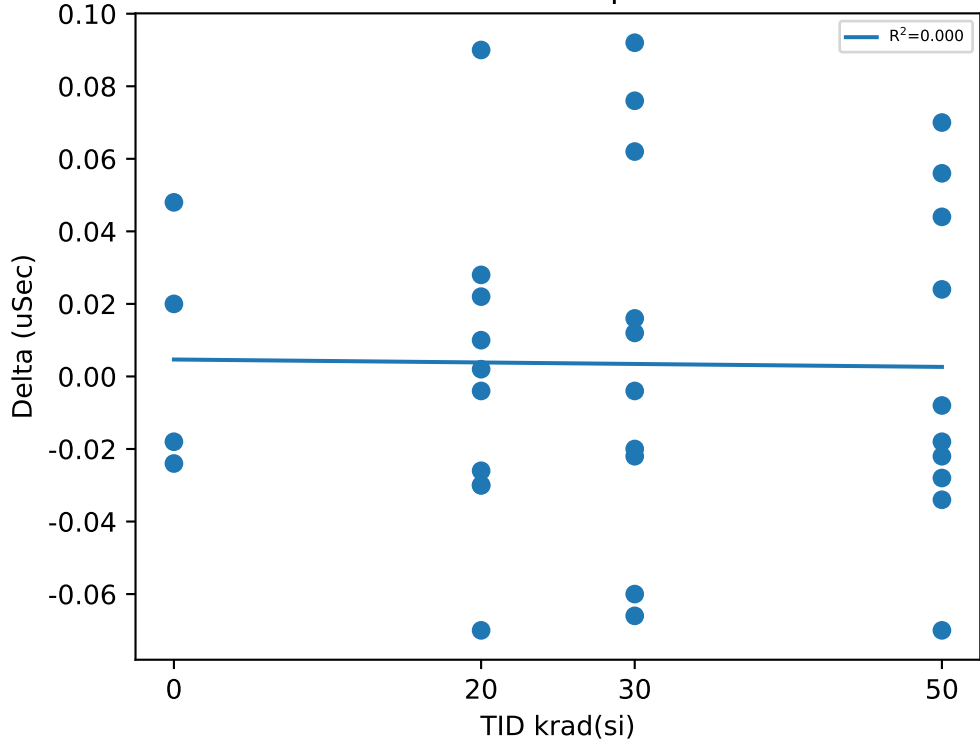
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.882 | 0.891 | 0.9 | 0.0073937 | 0.868 | 0.8975 | 0.93 | 0.027827 | -0.024 | 0.0065 | 0.048 | 0.033838 |
| 20 | 0.852 | 0.9058 | 0.962 | 0.03375 | 0.868 | 0.905 | 0.968 | 0.031073 | -0.07 | -0.0008 | 0.09 | 0.043279 |
| 30 | 0.852 | 0.8892 | 0.916 | 0.019826 | 0.83 | 0.8978 | 0.974 | 0.04264 | -0.066 | 0.0086 | 0.092 | 0.054365 |
| 50 | 0.864 | 0.899 | 0.94 | 0.024949 | 0.866 | 0.9004 | 0.944 | 0.028841 | -0.07 | 0.0014 | 0.07 | 0.045019 |

## TID vs Result Stats
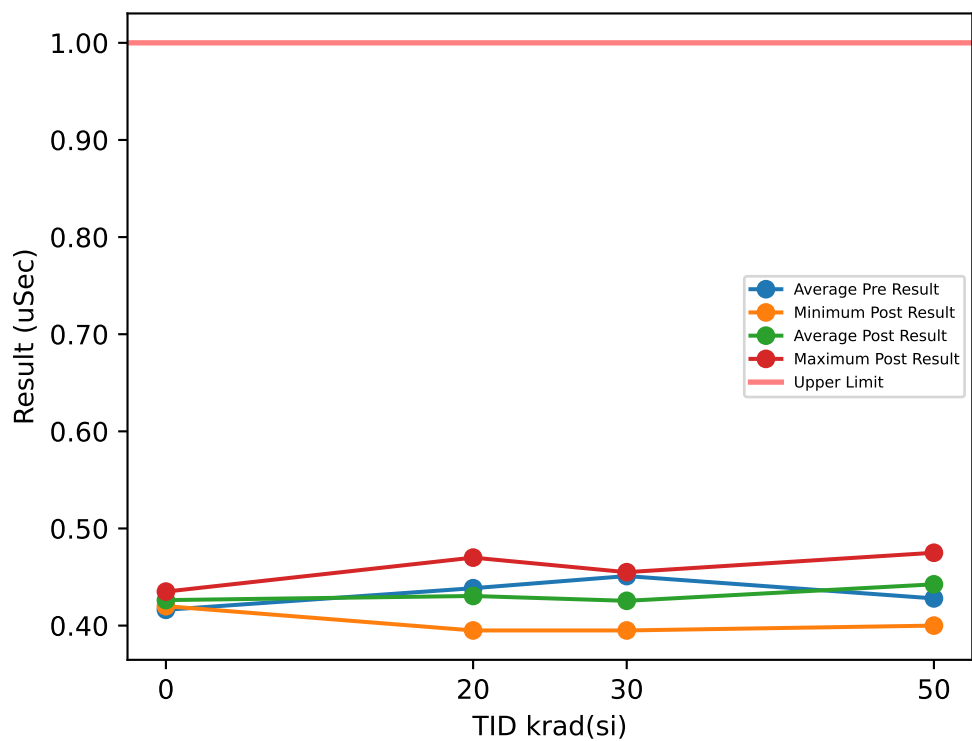


## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 1.0 (uSec))

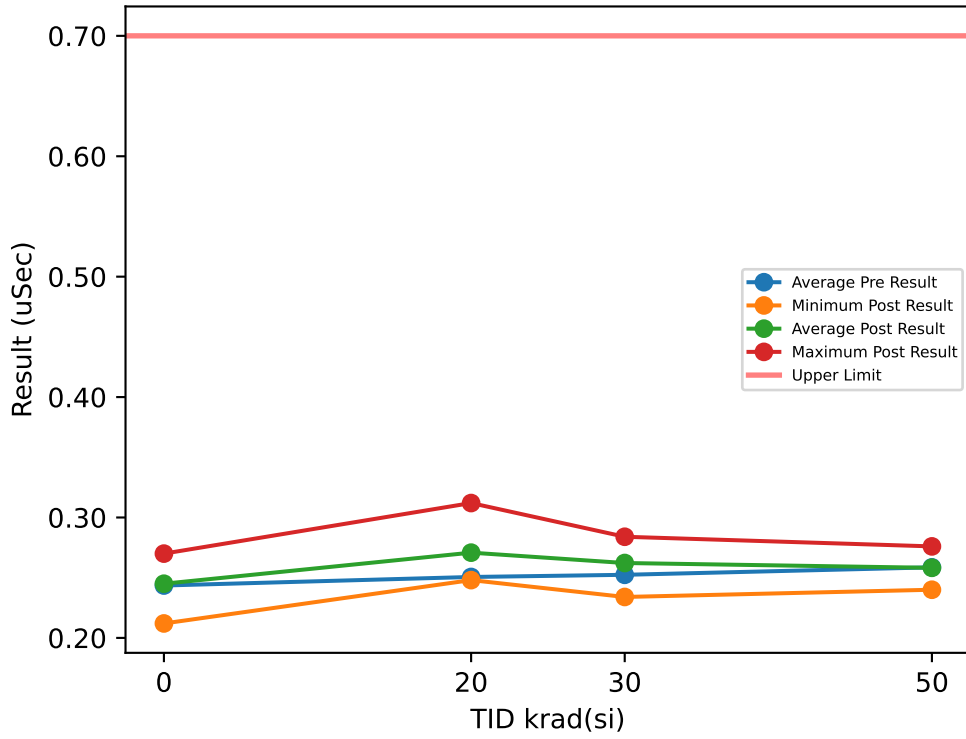| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.415 | 0.435 | 0.02 |
| 2 | 20 | Bias | 0.445 | 0.415 | -0.03 |
| 3 | 20 | Bias | 0.465 | 0.435 | -0.03 |
| 4 | 20 | Bias | 0.375 | 0.47 | 0.095 |
| 5 | 20 | Bias | 0.45 | 0.46 | 0.01 |
| 6 | 20 | Unbiased | 0.475 | 0.395 | -0.08 |
| 7 | 20 | Unbiased | 0.44 | 0.43 | -0.01 |
| 8 | 20 | Unbiased | 0.415 | 0.41 | -0.005 |
| 9 | 20 | Unbiased | 0.455 | 0.42 | -0.035 |
| 10 | 20 | Unbiased | 0.45 | 0.435 | -0.015 |
| 11 | 30 | Bias | 0.405 | 0.405 | 0 |
| 12 | 30 | Bias | 0.51 | 0.44 | -0.07 |
| 13 | 30 | Bias | 0.445 | 0.415 | -0.03 |
| 14 | 30 | Bias | 0.455 | 0.445 | -0.01 |
| 15 | 30 | Bias | 0.43 | 0.43 | 0 |
| 16 | 30 | Unbiased | 0.435 | 0.395 | -0.04 |
| 17 | 30 | Unbiased | 0.485 | 0.455 | -0.03 |
| 18 | 30 | Unbiased | 0.435 | 0.435 | 0 |
| 19 | 30 | Unbiased | 0.435 | 0.41 | -0.025 |
| 20 | 30 | Unbiased | 0.475 | 0.425 | -0.05 |
| 21 | 50 | Bias | 0.445 | 0.475 | 0.03 |
| 22 | 50 | Bias | 0.41 | 0.44 | 0.03 |
| 23 | 50 | Bias | 0.45 | 0.47 | 0.02 |
| 24 | 50 | Bias | 0.425 | 0.405 | -0.02 |
| 25 | 50 | Bias | 0.395 | 0.46 | 0.065 |
| 26 | 50 | Unbiased | 0.445 | 0.4 | -0.045 |
| 27 | 50 | Unbiased | 0.405 | 0.44 | 0.035 |
| 28 | 50 | Unbiased | 0.445 | 0.45 | 0.005 |
| 29 | 50 | Unbiased | 0.43 | 0.435 | 0.005 |
| 30 | 50 | Unbiased | 0.43 | 0.45 | 0.02 |
| 31 | 0 | Correlation | 0.405 | 0.435 | 0.03 |
| 32 | 0 | Correlation | 0.43 | 0.425 | -0.005 |
| 33 | 0 | Correlation | 0.39 | 0.425 | 0.035 |
| 34 | 0 | Correlation | 0.44 | 0.42 | -0.02 |

## Test Statistics (uSec)
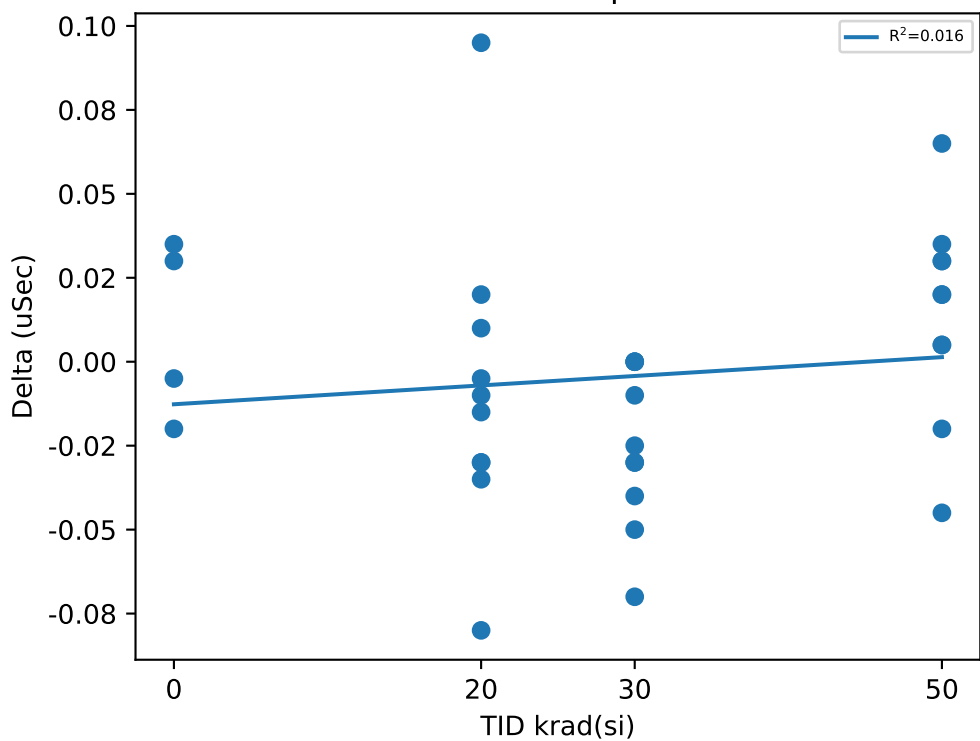
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.39 | 0.41625 | 0.44 | 0.022867 | 0.42 | 0.42625 | 0.435 | 0.0062915 | -0.02 | 0.01 | 0.035 | 0.026771 |
| 20 | 0.375 | 0.4385 | 0.475 | 0.029349 | 0.395 | 0.4305 | 0.47 | 0.022417 | -0.08 | -0.008 | 0.095 | 0.045534 |
| 30 | 0.405 | 0.451 | 0.51 | 0.030894 | 0.395 | 0.4255 | 0.455 | 0.019069 | -0.07 | -0.0255 | 0 | 0.023623 |
| 50 | 0.395 | 0.428 | 0.45 | 0.019178 | 0.4 | 0.4425 | 0.475 | 0.024749 | -0.045 | 0.0145 | 0.065 | 0.030591 |

# Device Test: 23.1   TMIN_UP(_TIMING|UP/UP/3.3/3/0/0/0/@TMIN_UP )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 0.7 (uSec))

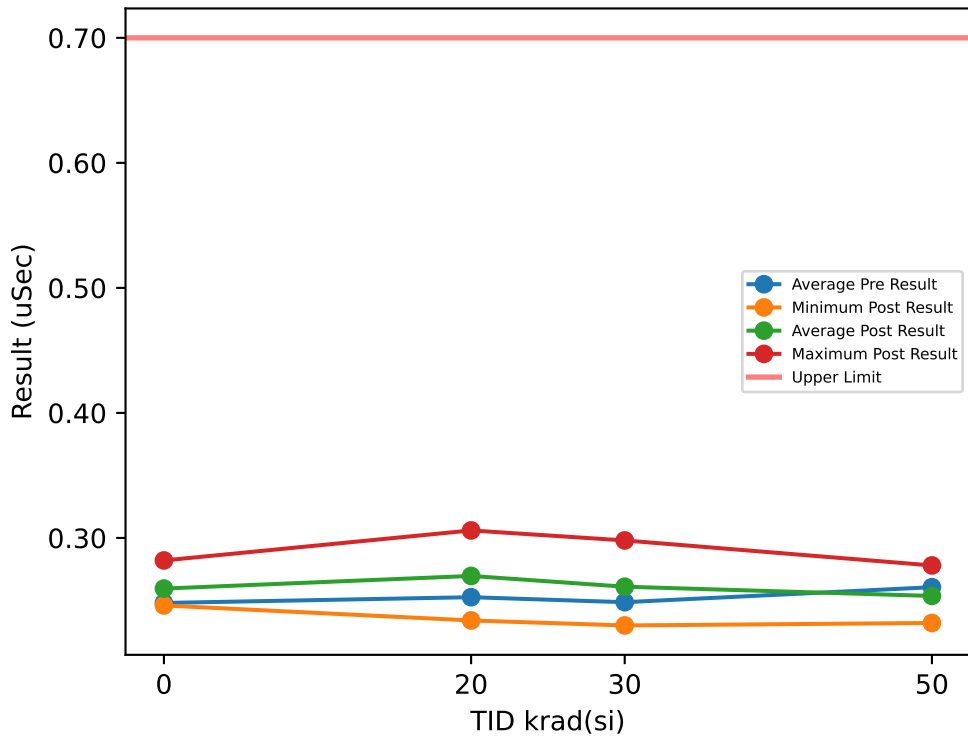| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.25 | 0.25 | 0 |
| 2 | 20 | Bias | 0.27 | 0.28 | 0.01 |
| 3 | 20 | Bias | 0.246 | 0.266 | 0.02 |
| 4 | 20 | Bias | 0.254 | 0.26 | 0.006 |
| 5 | 20 | Bias | 0.256 | 0.304 | 0.048 |
| 6 | 20 | Unbiased | 0.24 | 0.312 | 0.072 |
| 7 | 20 | Unbiased | 0.246 | 0.258 | 0.012 |
| 8 | 20 | Unbiased | 0.25 | 0.276 | 0.026 |
| 9 | 20 | Unbiased | 0.256 | 0.254 | -0.002 |
| 10 | 20 | Unbiased | 0.238 | 0.248 | 0.01 |
| 11 | 30 | Bias | 0.274 | 0.27 | -0.004 |
| 12 | 30 | Bias | 0.236 | 0.26 | 0.024 |
| 13 | 30 | Bias | 0.262 | 0.252 | -0.01 |
| 14 | 30 | Bias | 0.266 | 0.234 | -0.032 |
| 15 | 30 | Bias | 0.244 | 0.252 | 0.008 |
| 16 | 30 | Unbiased | 0.236 | 0.28 | 0.044 |
| 17 | 30 | Unbiased | 0.24 | 0.284 | 0.044 |
| 18 | 30 | Unbiased | 0.256 | 0.27 | 0.014 |
| 19 | 30 | Unbiased | 0.256 | 0.25 | -0.006 |
| 20 | 30 | Unbiased | 0.254 | 0.27 | 0.016 |
| 21 | 50 | Bias | 0.27 | 0.254 | -0.016 |
| 22 | 50 | Bias | 0.272 | 0.24 | -0.032 |
| 23 | 50 | Bias | 0.258 | 0.256 | -0.002 |
| 24 | 50 | Bias | 0.242 | 0.246 | 0.004 |
| 25 | 50 | Bias | 0.244 | 0.276 | 0.032 |
| 26 | 50 | Unbiased | 0.28 | 0.26 | -0.02 |
| 27 | 50 | Unbiased | 0.246 | 0.248 | 0.002 |
| 28 | 50 | Unbiased | 0.288 | 0.276 | -0.012 |
| 29 | 50 | Unbiased | 0.246 | 0.256 | 0.01 |
| 30 | 50 | Unbiased | 0.24 | 0.27 | 0.03 |
| 31 | 0 | Correlation | 0.236 | 0.27 | 0.034 |
| 32 | 0 | Correlation | 0.24 | 0.254 | 0.014 |
| 33 | 0 | Correlation | 0.258 | 0.212 | -0.046 |
| 34 | 0 | Correlation | 0.24 | 0.244 | 0.004 |

## Test Statistics (uSec)
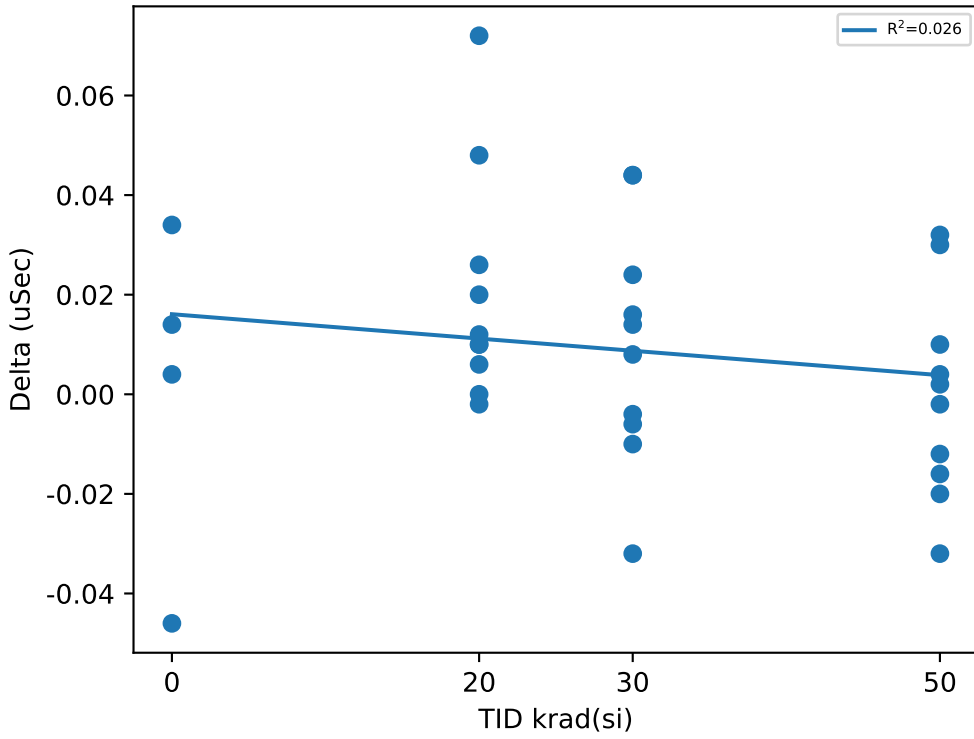
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.236 | 0.2435 | 0.258 | 0.0098489 | 0.212 | 0.245 | 0.27 | 0.024468 | -0.046 | 0.0015 | 0.034 | 0.034034 |
| 20 | 0.238 | 0.2506 | 0.27 | 0.0091918 | 0.248 | 0.2708 | 0.312 | 0.022235 | -0.002 | 0.0202 | 0.072 | 0.023256 |
| 30 | 0.236 | 0.2524 | 0.274 | 0.013057 | 0.234 | 0.2622 | 0.284 | 0.01539 | -0.032 | 0.0098 | 0.044 | 0.02399 |
| 50 | 0.24 | 0.2586 | 0.288 | 0.017589 | 0.24 | 0.2582 | 0.276 | 0.012417 | -0.032 | -0.0004 | 0.032 | 0.020738 |

# Device Test: 23.2   TMIN_UP(_TIMING|UP/UP/3.3/14/0/0/0/@TMIN_UP )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 0.7 (uSec))

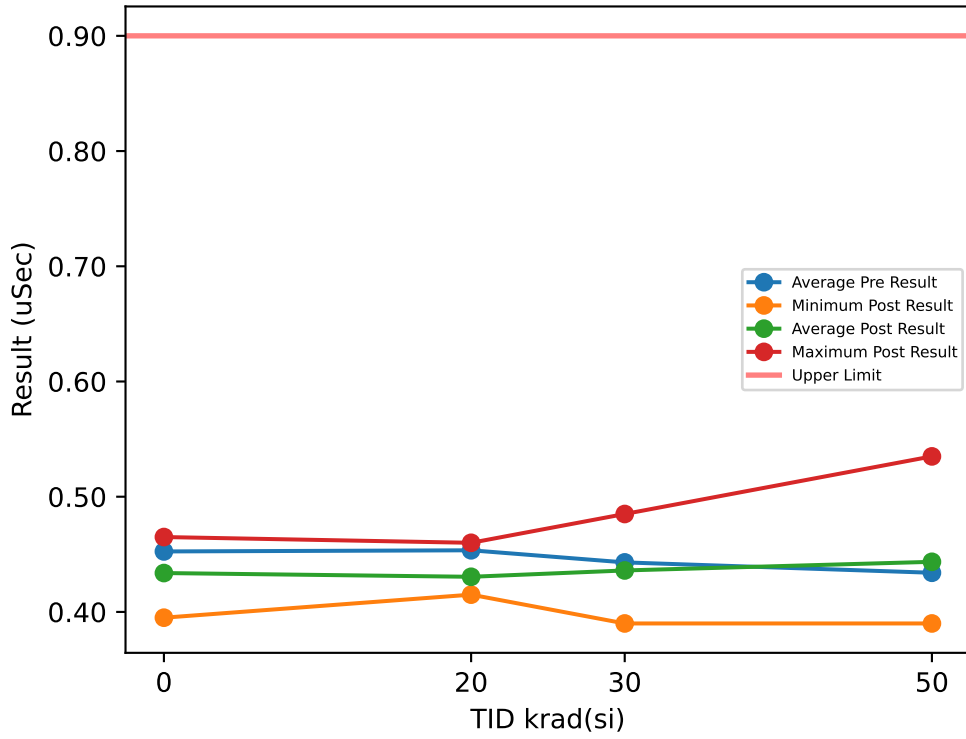| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.238 | 0.26 | 0.022 |
| 2 | 20 | Bias | 0.29 | 0.258 | -0.032 |
| 3 | 20 | Bias | 0.25 | 0.278 | 0.028 |
| 4 | 20 | Bias | 0.264 | 0.266 | 0.002 |
| 5 | 20 | Bias | 0.258 | 0.306 | 0.048 |
| 6 | 20 | Unbiased | 0.238 | 0.298 | 0.06 |
| 7 | 20 | Unbiased | 0.236 | 0.28 | 0.044 |
| 8 | 20 | Unbiased | 0.248 | 0.264 | 0.016 |
| 9 | 20 | Unbiased | 0.27 | 0.234 | -0.036 |
| 10 | 20 | Unbiased | 0.234 | 0.252 | 0.018 |
| 11 | 30 | Bias | 0.254 | 0.252 | -0.002 |
| 12 | 30 | Bias | 0.226 | 0.25 | 0.024 |
| 13 | 30 | Bias | 0.274 | 0.252 | -0.022 |
| 14 | 30 | Bias | 0.276 | 0.266 | -0.01 |
| 15 | 30 | Bias | 0.238 | 0.23 | -0.008 |
| 16 | 30 | Unbiased | 0.232 | 0.298 | 0.066 |
| 17 | 30 | Unbiased | 0.242 | 0.276 | 0.034 |
| 18 | 30 | Unbiased | 0.256 | 0.262 | 0.006 |
| 19 | 30 | Unbiased | 0.25 | 0.254 | 0.004 |
| 20 | 30 | Unbiased | 0.238 | 0.27 | 0.032 |
| 21 | 50 | Bias | 0.262 | 0.25 | -0.012 |
| 22 | 50 | Bias | 0.26 | 0.232 | -0.028 |
| 23 | 50 | Bias | 0.264 | 0.246 | -0.018 |
| 24 | 50 | Bias | 0.23 | 0.262 | 0.032 |
| 25 | 50 | Bias | 0.256 | 0.266 | 0.01 |
| 26 | 50 | Unbiased | 0.29 | 0.248 | -0.042 |
| 27 | 50 | Unbiased | 0.25 | 0.234 | -0.016 |
| 28 | 50 | Unbiased | 0.292 | 0.278 | -0.014 |
| 29 | 50 | Unbiased | 0.266 | 0.248 | -0.018 |
| 30 | 50 | Unbiased | 0.236 | 0.272 | 0.036 |
| 31 | 0 | Correlation | 0.238 | 0.282 | 0.044 |
| 32 | 0 | Correlation | 0.236 | 0.264 | 0.028 |
| 33 | 0 | Correlation | 0.274 | 0.246 | -0.028 |
| 34 | 0 | Correlation | 0.244 | 0.246 | 0.002 |

## Test Statistics (uSec)
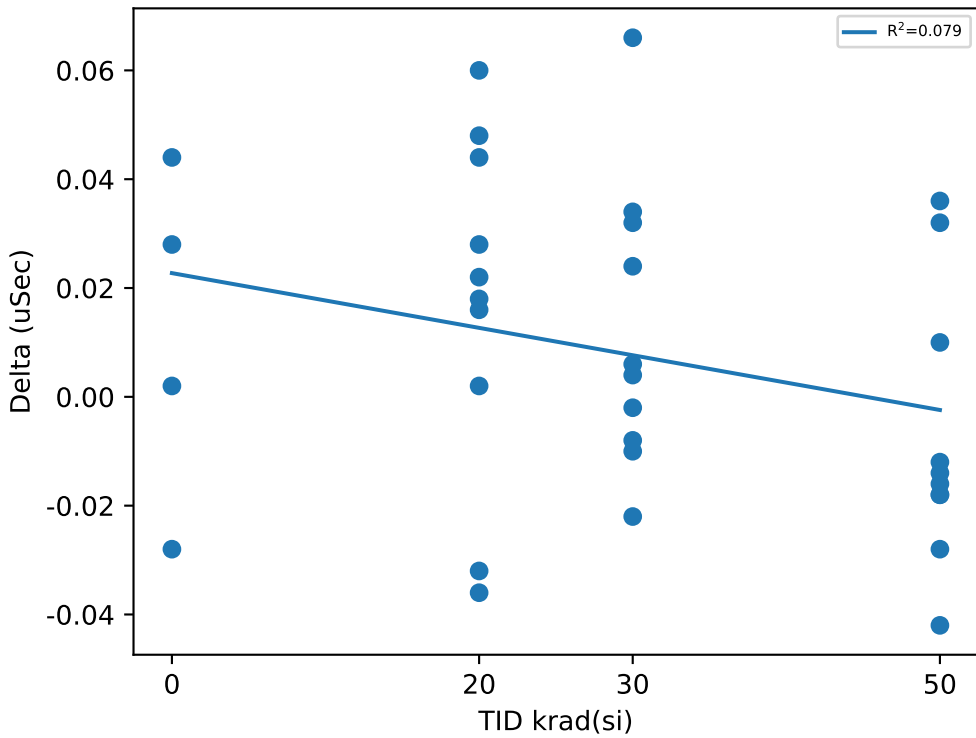
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.236 | 0.248 | 0.274 | 0.017664 | 0.246 | 0.2595 | 0.282 | 0.017234 | -0.028 | 0.0115 | 0.044 | 0.031512 |
| 20 | 0.234 | 0.2526 | 0.29 | 0.018063 | 0.234 | 0.2696 | 0.306 | 0.021495 | -0.036 | 0.017 | 0.06 | 0.031836 |
| 30 | 0.226 | 0.2486 | 0.276 | 0.016788 | 0.23 | 0.261 | 0.298 | 0.018239 | -0.022 | 0.0124 | 0.066 | 0.026412 |
| 50 | 0.23 | 0.2606 | 0.292 | 0.019912 | 0.232 | 0.2536 | 0.278 | 0.015429 | -0.042 | -0.007 | 0.036 | 0.025215 |

# Device Test: 23.3  TMIN_DOWN(_TIMING|DOWN/DOWN/3.3/3/0/0/0/@TMIN_DOWN )

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Upper Limit = 0.9 (uSec))

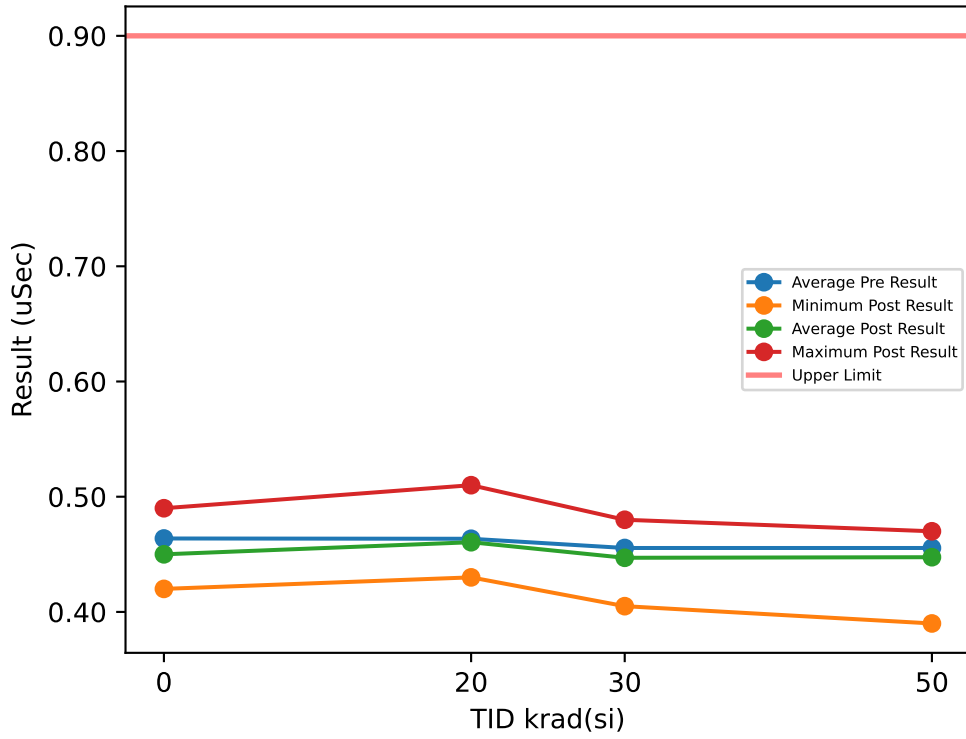| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.475 | 0.44 | -0.035 |
| 2 | 20 | Bias | 0.525 | 0.435 | -0.09 |
| 3 | 20 | Bias | 0.4 | 0.46 | 0.06 |
| 4 | 20 | Bias | 0.435 | 0.43 | -0.005 |
| 5 | 20 | Bias | 0.47 | 0.425 | -0.045 |
| 6 | 20 | Unbiased | 0.465 | 0.425 | -0.04 |
| 7 | 20 | Unbiased | 0.47 | 0.415 | -0.055 |
| 8 | 20 | Unbiased | 0.435 | 0.42 | -0.015 |
| 9 | 20 | Unbiased | 0.415 | 0.415 | 0 |
| 10 | 20 | Unbiased | 0.445 | 0.44 | -0.005 |
| 11 | 30 | Bias | 0.48 | 0.39 | -0.09 |
| 12 | 30 | Bias | 0.47 | 0.425 | -0.045 |
| 13 | 30 | Bias | 0.43 | 0.425 | -0.005 |
| 14 | 30 | Bias | 0.445 | 0.485 | 0.04 |
| 15 | 30 | Bias | 0.445 | 0.42 | -0.025 |
| 16 | 30 | Unbiased | 0.455 | 0.425 | -0.03 |
| 17 | 30 | Unbiased | 0.405 | 0.44 | 0.035 |
| 18 | 30 | Unbiased | 0.405 | 0.42 | 0.015 |
| 19 | 30 | Unbiased | 0.415 | 0.48 | 0.065 |
| 20 | 30 | Unbiased | 0.48 | 0.45 | -0.03 |
| 21 | 50 | Bias | 0.46 | 0.43 | -0.03 |
| 22 | 50 | Bias | 0.405 | 0.435 | 0.03 |
| 23 | 50 | Bias | 0.425 | 0.42 | -0.005 |
| 24 | 50 | Bias | 0.43 | 0.39 | -0.04 |
| 25 | 50 | Bias | 0.435 | 0.42 | -0.015 |
| 26 | 50 | Unbiased | 0.45 | 0.535 | 0.085 |
| 27 | 50 | Unbiased | 0.44 | 0.415 | -0.025 |
| 28 | 50 | Unbiased | 0.43 | 0.465 | 0.035 |
| 29 | 50 | Unbiased | 0.445 | 0.435 | -0.01 |
| 30 | 50 | Unbiased | 0.42 | 0.49 | 0.07 |
| 31 | 0 | Correlation | 0.495 | 0.395 | -0.1 |
| 32 | 0 | Correlation | 0.435 | 0.465 | 0.03 |
| 33 | 0 | Correlation | 0.46 | 0.46 | 0 |
| 34 | 0 | Correlation | 0.42 | 0.415 | -0.005 |

### Test Statistics (uSec)
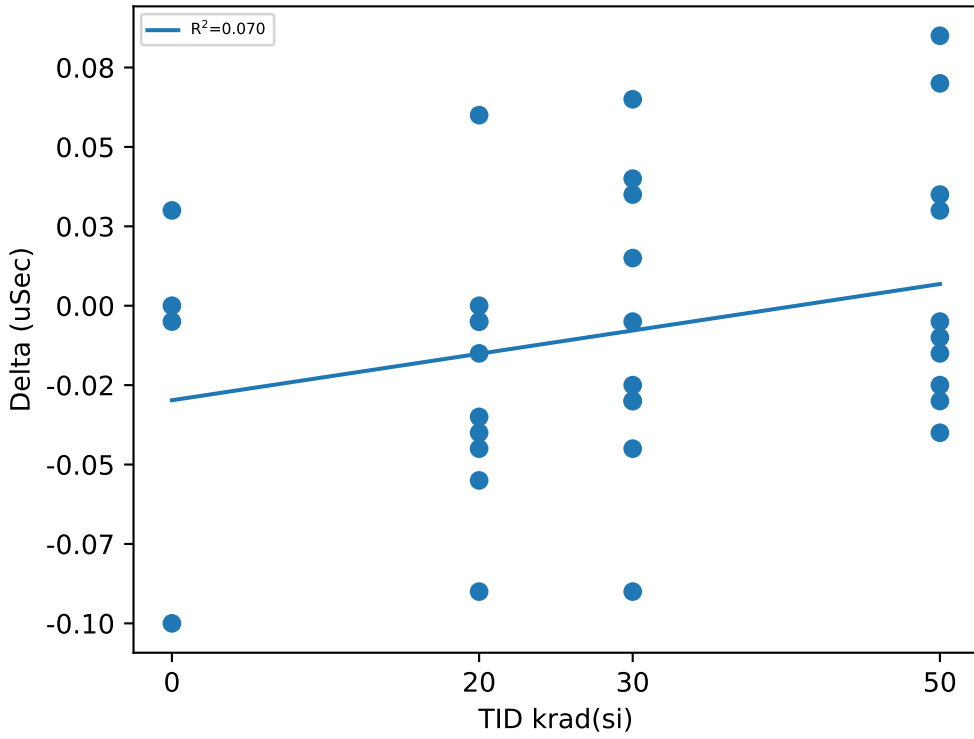
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.42 | 0.4525 | 0.495 | 0.032787 | 0.395 | 0.43375 | 0.465 | 0.034248 | -0.1 | -0.01875 | 0.03 | 0.056329 |
| 20 | 0.4 | 0.4535 | 0.525 | 0.035516 | 0.415 | 0.4305 | 0.46 | 0.013834 | -0.09 | -0.023 | 0.06 | 0.040222 |
| 30 | 0.405 | 0.443 | 0.48 | 0.02879 | 0.39 | 0.436 | 0.485 | 0.028944 | -0.09 | -0.007 | 0.065 | 0.04638 |
| 50 | 0.405 | 0.434 | 0.46 | 0.015776 | 0.39 | 0.4435 | 0.535 | 0.042299 | -0.04 | 0.0095 | 0.085 | 0.043234 |

# Device Test: 23.4   TMIN_DOWN(_TIMING|DOWN/DOWN/3.3/14/0/0/0/@TMIN_DOWN )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 0.9 (uSec))

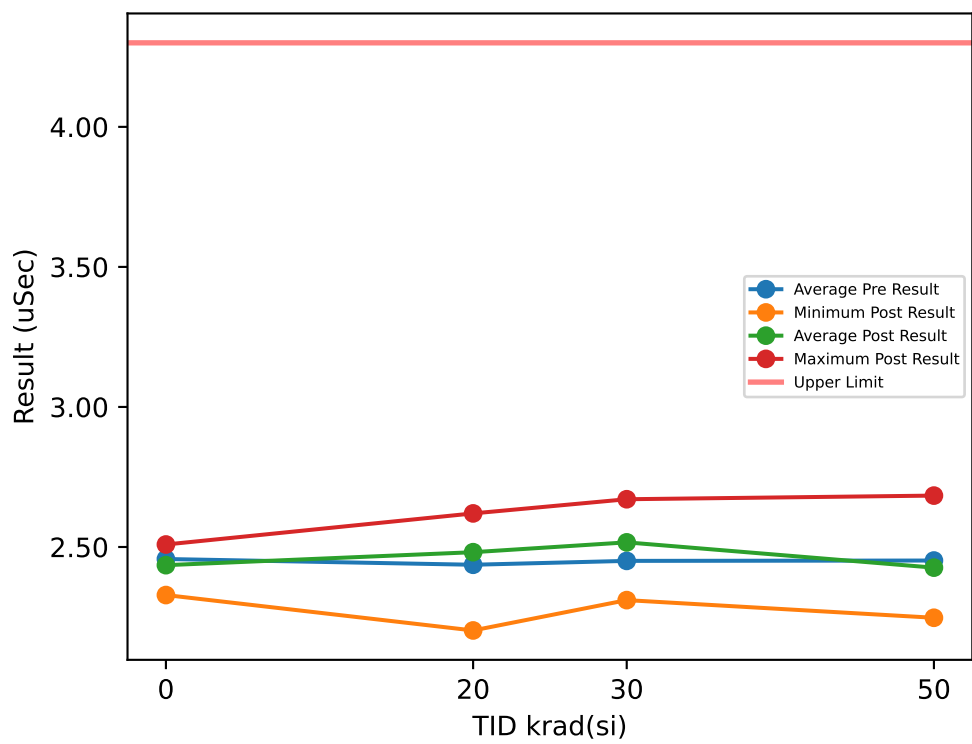| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 0.445 | 0.51 | 0.065 |
| 2 | 20 | Bias | 0.46 | 0.44 | -0.02 |
| 3 | 20 | Bias | 0.48 | 0.47 | -0.01 |
| 4 | 20 | Bias | 0.465 | 0.47 | 0.005 |
| 5 | 20 | Bias | 0.43 | 0.46 | 0.03 |
| 6 | 20 | Unbiased | 0.45 | 0.43 | -0.02 |
| 7 | 20 | Unbiased | 0.43 | 0.435 | 0.005 |
| 8 | 20 | Unbiased | 0.51 | 0.47 | -0.04 |
| 9 | 20 | Unbiased | 0.48 | 0.46 | -0.02 |
| 10 | 20 | Unbiased | 0.485 | 0.46 | -0.025 |
| 11 | 30 | Bias | 0.45 | 0.45 | 0 |
| 12 | 30 | Bias | 0.475 | 0.44 | -0.035 |
| 13 | 30 | Bias | 0.475 | 0.435 | -0.04 |
| 14 | 30 | Bias | 0.46 | 0.47 | 0.01 |
| 15 | 30 | Bias | 0.45 | 0.48 | 0.03 |
| 16 | 30 | Unbiased | 0.42 | 0.405 | -0.015 |
| 17 | 30 | Unbiased | 0.455 | 0.445 | -0.01 |
| 18 | 30 | Unbiased | 0.455 | 0.405 | -0.05 |
| 19 | 30 | Unbiased | 0.44 | 0.47 | 0.03 |
| 20 | 30 | Unbiased | 0.475 | 0.47 | -0.005 |
| 21 | 50 | Bias | 0.465 | 0.465 | 0 |
| 22 | 50 | Bias | 0.48 | 0.435 | -0.045 |
| 23 | 50 | Bias | 0.45 | 0.435 | -0.015 |
| 24 | 50 | Bias | 0.44 | 0.44 | 0 |
| 25 | 50 | Bias | 0.42 | 0.465 | 0.045 |
| 26 | 50 | Unbiased | 0.49 | 0.47 | -0.02 |
| 27 | 50 | Unbiased | 0.435 | 0.46 | 0.025 |
| 28 | 50 | Unbiased | 0.45 | 0.45 | 0 |
| 29 | 50 | Unbiased | 0.45 | 0.465 | 0.015 |
| 30 | 50 | Unbiased | 0.475 | 0.39 | -0.085 |
| 31 | 0 | Correlation | 0.49 | 0.42 | -0.07 |
| 32 | 0 | Correlation | 0.49 | 0.49 | 0 |
| 33 | 0 | Correlation | 0.455 | 0.445 | -0.01 |
| 34 | 0 | Correlation | 0.42 | 0.445 | 0.025 |

## Test Statistics (uSec)
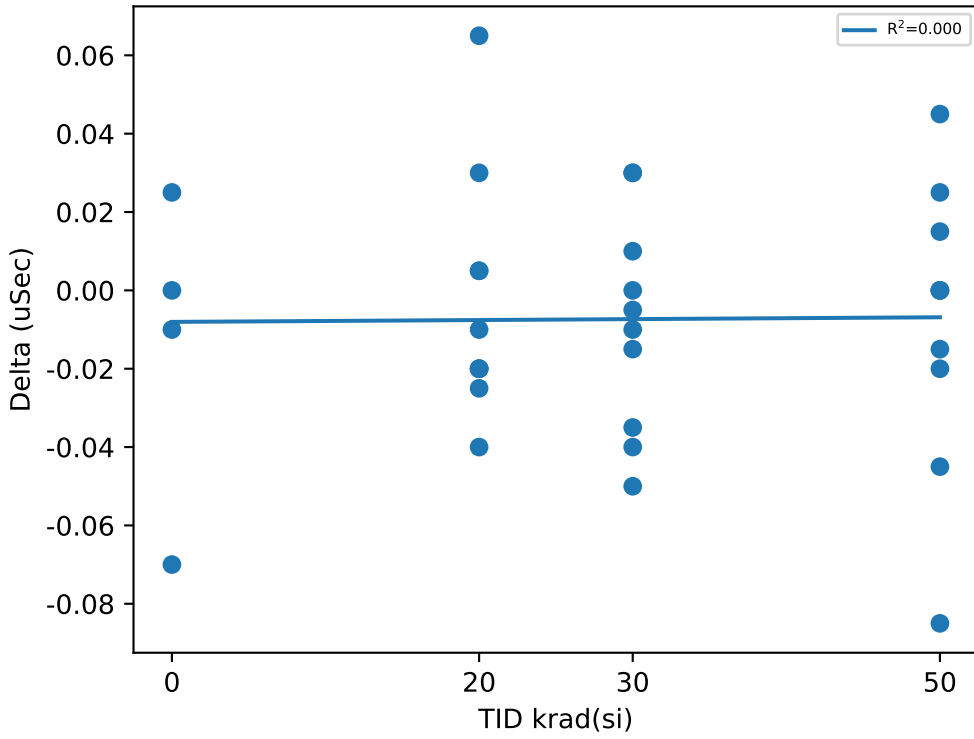
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.42 | 0.46375 | 0.49 | 0.03351 | 0.42 | 0.45 | 0.49 | 0.029155 | -0.07 | -0.01375 | 0.025 | 0.040285 |
| 20 | 0.43 | 0.4635 | 0.51 | 0.025717 | 0.43 | 0.4605 | 0.51 | 0.022907 | -0.04 | -0.003 | 0.065 | 0.03093 |
| 30 | 0.42 | 0.4555 | 0.475 | 0.017393 | 0.405 | 0.447 | 0.48 | 0.026687 | -0.05 | -0.0085 | 0.03 | 0.027593 |
| 50 | 0.42 | 0.4555 | 0.49 | 0.021788 | 0.39 | 0.4475 | 0.47 | 0.024181 | -0.085 | -0.008 | 0.045 | 0.036682 |

# Device Test: 24.1   SM_F_PROP_DELAY(_TIMING|DELAY/SENSE1/3.3/3/0/0/0/@SM_F_PROP_DELAY )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 4.3 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.4508 | 2.5146 | 0.0638 |
| 2 | 20 | Bias | 2.553 | 2.4337 | -0.1193 |
| 3 | 20 | Bias | 2.3552 | 2.202 | -0.1532 |
| 4 | 20 | Bias | 2.3518 | 2.5479 | 0.1961 |
| 5 | 20 | Bias | 2.3748 | 2.4134 | 0.0386 |
| 6 | 20 | Unbiased | 2.4237 | 2.5431 | 0.1194 |
| 7 | 20 | Unbiased | 2.4109 | 2.5781 | 0.1672 |
| 8 | 20 | Unbiased | 2.5115 | 2.5613 | 0.0498 |
| 9 | 20 | Unbiased | 2.4179 | 2.4002 | -0.0177 |
| 10 | 20 | Unbiased | 2.5161 | 2.6199 | 0.1038 |
| 11 | 30 | Bias | 2.4622 | 2.5985 | 0.1363 |
| 12 | 30 | Bias | 2.5228 | 2.5048 | -0.018 |
| 13 | 30 | Bias | 2.3563 | 2.5607 | 0.2044 |
| 14 | 30 | Bias | 2.3402 | 2.4622 | 0.122 |
| 15 | 30 | Bias | 2.4761 | 2.439 | -0.0371 |
| 16 | 30 | Unbiased | 2.4581 | 2.6705 | 0.2124 |
| 17 | 30 | Unbiased | 2.4045 | 2.3103 | -0.0942 |
| 18 | 30 | Unbiased | 2.5343 | 2.5326 | -0.0017 |
| 19 | 30 | Unbiased | 2.3569 | 2.4475 | 0.0906 |
| 20 | 30 | Unbiased | 2.5927 | 2.6392 | 0.0465 |
| 21 | 50 | Bias | 2.5093 | 2.4141 | -0.0952 |
| 22 | 50 | Bias | 2.1545 | 2.6835 | 0.529 |
| 23 | 50 | Bias | 2.2964 | 2.3568 | 0.0604 |
| 24 | 50 | Bias | 2.7994 | 2.36 | -0.4394 |
| 25 | 50 | Bias | 2.433 | 2.4958 | 0.0628 |
| 26 | 50 | Unbiased | 2.4669 | 2.3982 | -0.0687 |
| 27 | 50 | Unbiased | 2.6854 | 2.4865 | -0.1989 |
| 28 | 50 | Unbiased | 2.5486 | 2.363 | -0.1856 |
| 29 | 50 | Unbiased | 2.4351 | 2.4576 | 0.0225 |
| 30 | 50 | Unbiased | 2.188 | 2.2473 | 0.0593 |
| 31 | 0 | Correlation | 2.5729 | 2.5089 | -0.064 |
| 32 | 0 | Correlation | 2.4226 | 2.3284 | -0.0942 |
| 33 | 0 | Correlation | 2.5309 | 2.4623 | -0.0686 |
| 34 | 0 | Correlation | 2.3021 | 2.4408 | 0.1387 |

## Test Statistics (uSec)
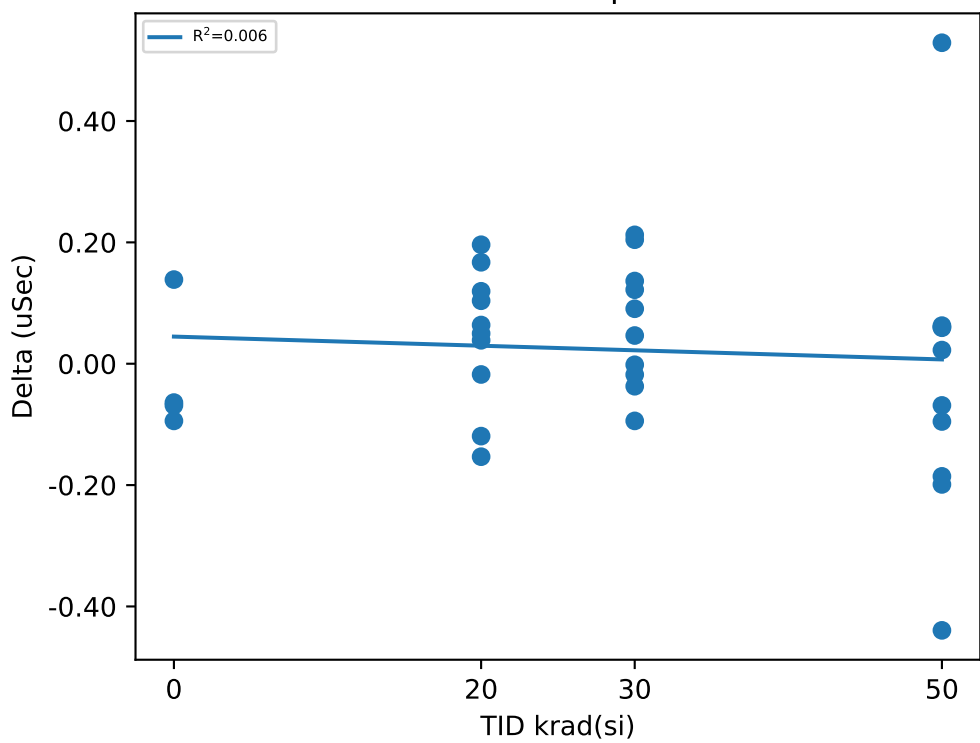
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.3021 | 2.4571 | 2.5729 | 0.1212 | 2.3284 | 2.4351 | 2.5089 | 0.076602 | -0.0942 | -0.022025 | 0.1387 | 0.10797 |
| 20 | 2.3518 | 2.4366 | 2.553 | 0.070312 | 2.202 | 2.4814 | 2.6199 | 0.12284 | -0.1532 | 0.04485 | 0.1961 | 0.1142 |
| 30 | 2.3402 | 2.4504 | 2.5927 | 0.085139 | 2.3103 | 2.5165 | 2.6705 | 0.10754 | -0.0942 | 0.06612 | 0.2124 | 0.10413 |
| 50 | 2.1545 | 2.4517 | 2.7994 | 0.20305 | 2.2473 | 2.4263 | 2.6835 | 0.11633 | -0.4394 | -0.02538 | 0.529 | 0.25075 |
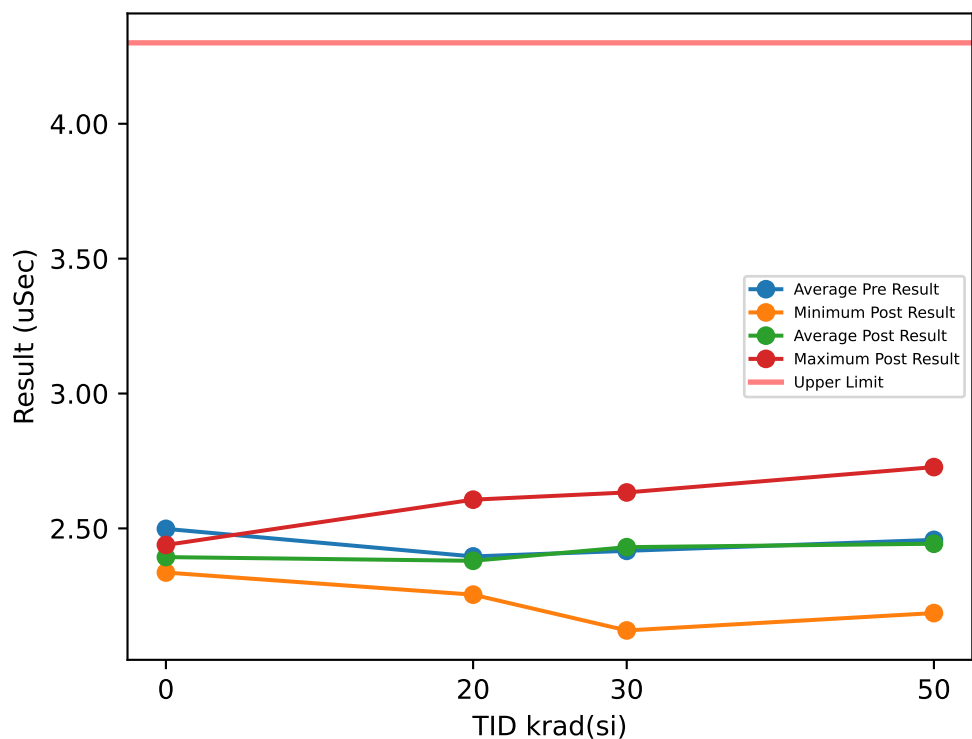
# Device Test: 24.2   SM_F_PROP_DELAY(_TIMING|DELAY/SENSE1/3.3/14/0/0/0/@SM_F_PROP_DELAY )

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 4.3 (uSec))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|---|---|---|---|---|---|
| 1 | 20 | Bias | 2.4813 | 2.2544 | -0.2269 |
| 2 | 20 | Bias | 2.3026 | 2.2627 | -0.0399 |
| 3 | 20 | Bias | 2.292 | 2.3932 | 0.1012 |
| 4 | 20 | Bias | 2.524 | 2.3339 | -0.1901 |
| 5 | 20 | Bias | 2.449 | 2.6065 | 0.1575 |
| 6 | 20 | Unbiased | 2.3312 | 2.3952 | 0.064 |
| 7 | 20 | Unbiased | 2.3802 | 2.4321 | 0.0519 |
| 8 | 20 | Unbiased | 2.3252 | 2.333 | 0.0078 |
| 9 | 20 | Unbiased | 2.4217 | 2.2873 | -0.1344 |
| 10 | 20 | Unbiased | 2.4543 | 2.5011 | 0.0468 |
| 11 | 30 | Bias | 2.6064 | 2.4586 | -0.1478 |
| 12 | 30 | Bias | 2.3747 | 2.422 | 0.0473 |
| 13 | 30 | Bias | 2.2681 | 2.3703 | 0.1022 |
| 14 | 30 | Bias | 2.3572 | 2.3936 | 0.0364 |
| 15 | 30 | Bias | 2.3307 | 2.5543 | 0.2236 |
| 16 | 30 | Unbiased | 2.2933 | 2.5004 | 0.2071 |
| 17 | 30 | Unbiased | 2.5266 | 2.3757 | -0.1509 |
| 18 | 30 | Unbiased | 2.4328 | 2.1217 | -0.3111 |
| 19 | 30 | Unbiased | 2.4884 | 2.6333 | 0.1449 |
| 20 | 30 | Unbiased | 2.4895 | 2.475 | -0.0145 |
| 21 | 50 | Bias | 2.5023 | 2.6218 | 0.1195 |
| 22 | 50 | Bias | 2.3278 | 2.4208 | 0.093 |
| 23 | 50 | Bias | 2.3747 | 2.7273 | 0.3526 |
| 24 | 50 | Bias | 2.516 | 2.3618 | -0.1542 |
| 25 | 50 | Bias | 2.5397 | 2.2924 | -0.2473 |
| 26 | 50 | Unbiased | 2.5807 | 2.4654 | -0.1153 |
| 27 | 50 | Unbiased | 2.4056 | 2.5081 | 0.1025 |
| 28 | 50 | Unbiased | 2.4264 | 2.4984 | 0.072 |
| 29 | 50 | Unbiased | 2.3188 | 2.1861 | -0.1327 |
| 30 | 50 | Unbiased | 2.5826 | 2.3495 | -0.2331 |
| 31 | 0 | Correlation | 2.5679 | 2.3364 | -0.2315 |
| 32 | 0 | Correlation | 2.4614 | 2.4387 | -0.0227 |
| 33 | 0 | Correlation | 2.4215 | 2.4349 | 0.0134 |
| 34 | 0 | Correlation | 2.5425 | 2.3645 | -0.178 |

## Test Statistics (uSec)
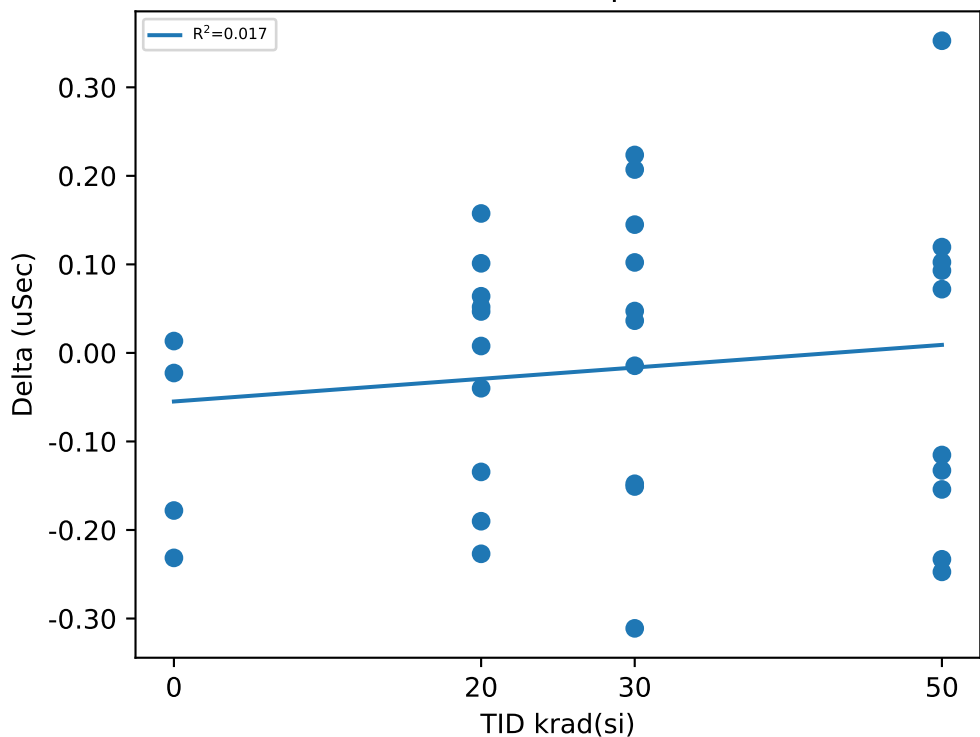
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.4215 | 2.4983 | 2.5679 | 0.068454 | 2.3364 | 2.3936 | 2.4387 | 0.051181 | -0.2315 | -0.1047 | 0.0134 | 0.11849 |
| 20 | 2.292 | 2.3962 | 2.524 | 0.081329 | 2.2544 | 2.3799 | 2.6065 | 0.11133 | -0.2269 | -0.01621 | 0.1575 | 0.12856 |
| 30 | 2.2681 | 2.4168 | 2.6064 | 0.10994 | 2.1217 | 2.4305 | 2.6333 | 0.13643 | -0.3111 | 0.01372 | 0.2236 | 0.17244 |
| 50 | 2.3188 | 2.4575 | 2.5826 | 0.099772 | 2.1861 | 2.4432 | 2.7273 | 0.15815 | -0.2473 | -0.0143 | 0.3526 | 0.1918 |

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