



## ABSTRACT

This report discusses the results of the total ionizing dose (TID) testing for the Texas Instruments TPS7H5020-SEP radiation hardness-assured PWM controller with integrated gate driver. The study was done to determine TID effects at 50krad (Si) High Dose Rate (HDR). The results show that all samples pass within device specified test limits.

---

## Table of Contents

<b>1 Device Information</b> .....	2
1.1 Product Description.....	2
1.2 Device Details.....	2
<b>2 Total Dose Test Setup</b> .....	4
2.1 Test Overview.....	4
2.2 Test Description and Facilities.....	4
2.3 Test Setup Details.....	4
2.4 Test Configuration and Conditions.....	6
<b>3 TID Characterization Test Results</b> .....	7
3.1 TID Characterization Results Summary.....	7
3.2 Data Sheet Electrical Parameters.....	8
<b>4 Applicable and Reference Documents</b> .....	13
4.1 Applicable Documents.....	13
4.2 Reference Documents.....	13
<b>A Appendix: HDR TID Report</b> .....	14

## Trademarks

All trademarks are the property of their respective owners.

## 1 Device Information

### 1.1 Product Description

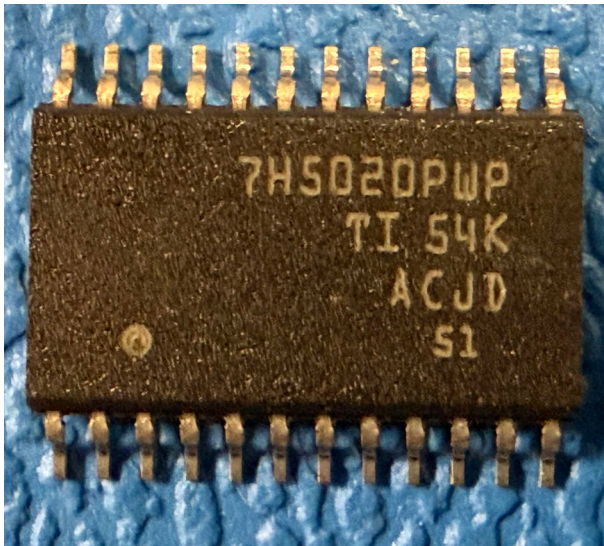
The TPS7H5020 is a radiation-hardness-assured, current mode, single-ended PWM controller with an integrated gate driver that can be utilized in both silicon and gallium nitride (GaN) power semiconductor based converter designs. The TPS7H5020 integrates several key functions, such as soft-start, enable, and adjustable slope compensation while maintaining a small package size. The controller also features a  $0.6V \pm 1\%$  voltage reference tolerance to support highly accurate power converter designs. The TPS7H5020-SEP is packaged in a plastic 24-pin HTSSOP PWP package.

### 1.2 Device Details

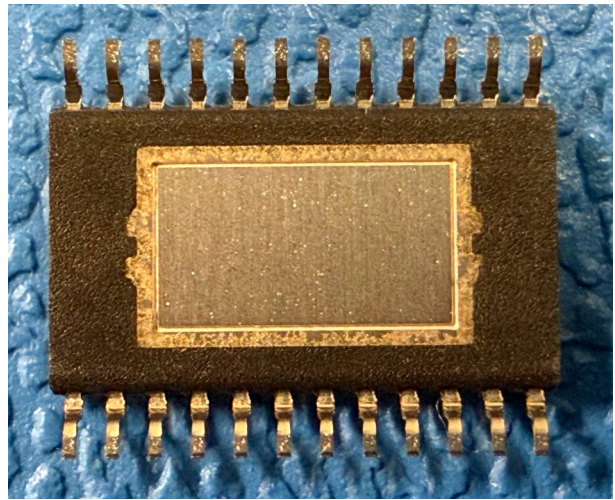
Testing was performed per MIL-STD-883, Test Method 1019, with a sample size per MIL-PRF-38535, Appendix C, test condition A (high dose rate).

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

RHA TID Details: Up to 50krad(Si)	
TI Device	TPS7H5020-SEP
TI Part Number	TPS7H5020MPWPTSEP
Device Function	PWM Controller with Integrated Gate Driver
Package	24-pin HTSSOP-PWP
Technology	LBC7 (250nm Linear BiCMOS)
Quantity tested	HDR : <ul style="list-style-type: none"> <li>• 15 biased units from 20krad(Si) to 50krad(Si)</li> <li>• 15 unbiased units from 20krad(Si) to 50krad(Si)</li> <li>• Three correlation units</li> </ul>
Lot Accept/Reject	Passes up to 50krad(Si); no observed fails
HDR Radiation Facility	Texas Instruments CLAB Dallas, Texas
Die Lot Number and Assembly Lot Number	DIE: 4218460 Assembly: 5217927
HDR Dose Rate	172.96 rad (Si) / s
HDR Radiation Source	Gammacell 220 Excel (GC-220E) Co-60
Irradiation and Test Temperature	Ambient, room temperature controlled to $25^{\circ}\text{C} \pm 6^{\circ}\text{C}$ per MIL-STD-883 and MIL-STD-750



**Figure 1-1. Device Used in Exposure (Front)**



**Figure 1-2. Device Used in Exposure (Back)**

## 2 Total Dose Test Setup

### 2.1 Test Overview

The TPS7H5020-SEP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, condition A was used. For this test, the product was irradiated up to the target radiation level, and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). All devices remained functional passing all parametric test limits.

### 2.2 Test Description and Facilities

The TPS7H5020-SEP HDR exposure was performed on biased devices in a Co-60 Gammacell at the TI Dallas C-Lab facility in Dallas, Texas. The unattenuated dose rate of this cell is 172.96 rad (Si) / s. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and post-radiation electrical testing at TI's Dallas Forest Lane facility. Test limit guard bands are set within SMD electrical test limits.

Post-radiation measurements were taken within 30 minutes after removing device 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 through Figure 2-3 and the HDR bias diagram and schematic.

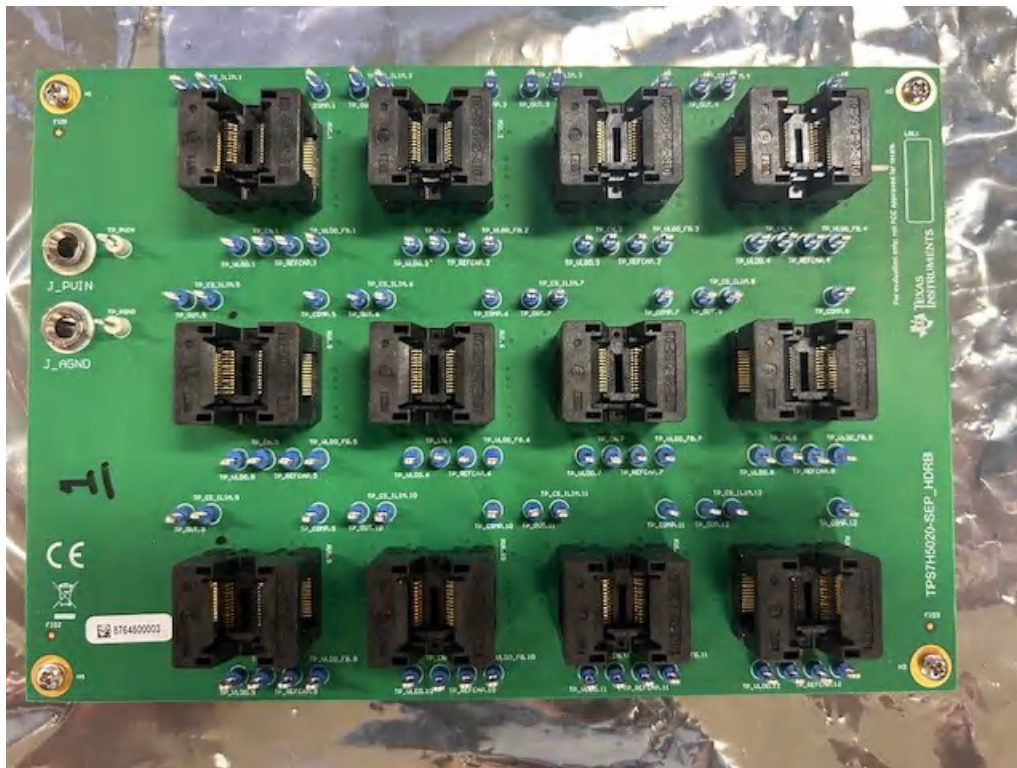


Figure 2-1. HDR TID Hardware

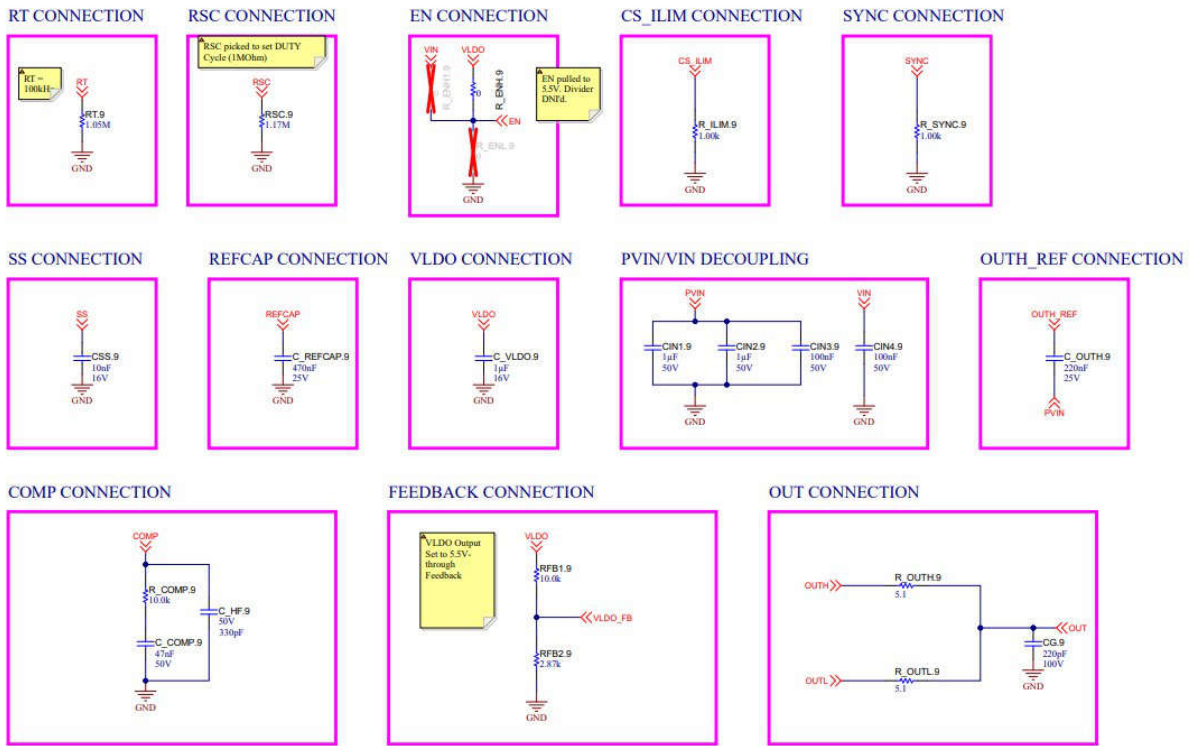


Figure 2-2. Supplies and GND HDR TID Bias Diagram

SITE - SOCKET PIN MAPPING

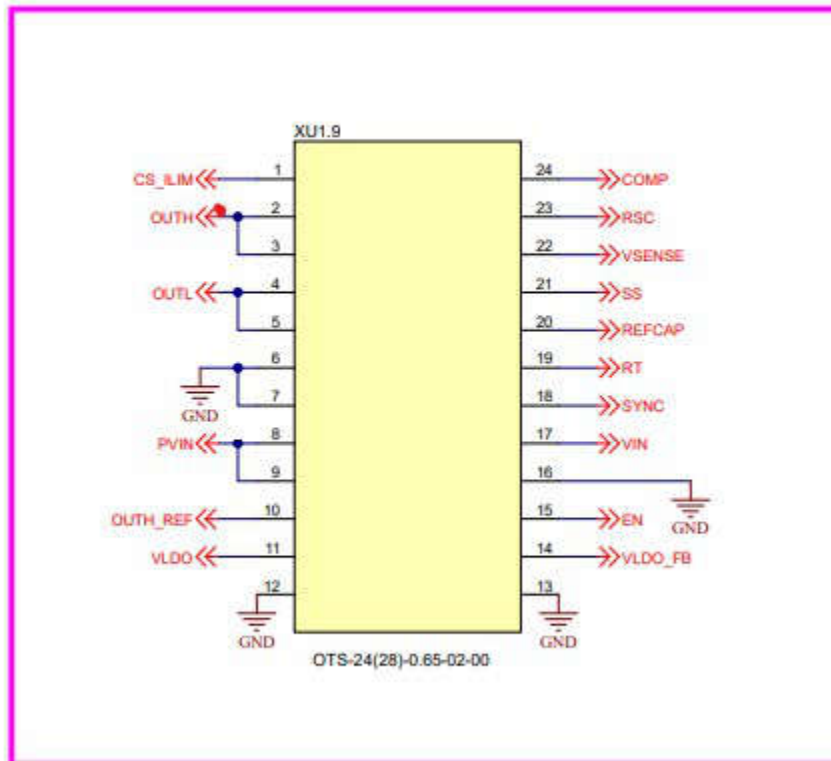


Figure 2-3. HDR TID Bias Diagram

## 2.4 Test Configuration and Conditions

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

**Table 2-1. HDR Biased Device Information**

Total Samples: 15 units + 3 control			
Exposure Levels:			
Control	20krad (Si)	30krad(Si)	50krad (Si)
71, 72, 73	21, 22, 23, 24, 25	31, 32, 33, 34, 35	41, 42, 43, 44, 45

**Table 2-2. HDR Unbiased Device Information**

Total Samples: 15 units + 3 control			
Exposure Levels:			
Control	20krad (Si)	30krad(Si)	50krad (Si)
71, 72, 73	26, 27, 28, 29, 30	36, 37, 38, 39, 40	46, 47, 48, 49, 50



## 3 TID Characterization Test Results

### 3.1 TID Characterization Results Summary

The results show that all TPS7H5020-SEP devices were fully functional and within specification limits up to 50krad (Si) HDR. Overall the TPS7H5020-SEP show a strong degree of hardness to TID HDR exposure levels at 50krad (Si) under bias and unbiased conditions. Performance is measured based on the difference between pre- and post-irradiation with respect to SMD electrical minimum and maximum specification. 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. (see [Section 3.2](#) for the electrical parameters). Note that test numbers are listed only for parameters tested post-TID.

See [Appendix: HDR TID Report](#) for HDR report.

### 3.2 Data Sheet Electrical Parameters

Specifications are at ambient temperature  $T_A = 25^\circ\text{C}$ ,  $P_{VIN} = V_{IN} = 4.5\text{V}$  to  $14\text{V}$  unless otherwise noted.

Parameters not listed in the table are omitted either because there is no parametric data or because verification was done through bench testing. Parameters without MIN and MAX values are functionally assured by ATE testing.

**Table 3-1. TPS7H5020-SEP Data Sheet Electrical Parameters**

PARAMETER	TEST CONDITIONS		MIN	MAX	UNIT	Test #	
SUPPLY VOLTAGES AND CURRENTS							
IDD	Operating supply current	No load for OUT, $P_{VIN} = V_{IN}$	$f_{SW} = 100\text{kHz}$		11	mA	14.1, 14.2, 14.3, 14.4
			$f_{SW} = 500\text{kHz}$		17		14.6, 14.8, 14.10, 14.12
			$f_{SW} = 1\text{MHz}$		25		14.14, 14.15, 14.16, 14.17
		$C_{LOAD} = 1000\text{pF}$ for OUT, $P_{VIN} = V_{IN}$	$f_{SW} = 100\text{kHz}$		12	mA	14.8, 14.19, 14.20, 14.21
			$f_{SW} = 500\text{kHz}$		22		14.22, 14.23, 14.24, 14.25
			$f_{SW} = 1\text{MHz}$		28		14.26, 14.27, 14.28, 14.29
		$C_{LOAD} = 1000\text{pF}$ for OUT, $V_{IN} = 12\text{V}$ , $P_{VIN} = V_{LDO} = 5\text{V}$	$f_{SW} = 100\text{kHz}$		10	mA	14.3
			$f_{SW} = 500\text{kHz}$		13		14.31
			$f_{SW} = 1\text{MHz}$		20		14.32
$I_{start}$	Startup Current	$V_{IN} = 3.5\text{V}$			5	mA	14.5
IDD(dis)	Standby current	$EN = 0\text{V}$			8	mA	14.7, 14.9, 14.11, 14.13
VLDO	Internal linear regulator output voltage	$C_{VLDO} = 1\mu\text{F}$	$5\text{V} \leq V_{IN} \leq 14\text{V}$ , RVT = $10\text{k}\Omega$ , RVB = $3.74\text{k}\Omega$	4.36	4.62	V	15.1, 15.4, 15.5
			$5.5\text{V} \leq V_{IN} \leq 14\text{V}$ , RVT = $10\text{k}\Omega$ , RVB = $3.24\text{k}\Omega$	4.84	5.14		15.8, 15.11, 15.12
			$6\text{V} \leq V_{IN} \leq 14\text{V}$ , RVT = $10\text{k}\Omega$ , RVB = $2.87\text{k}\Omega$	5.31	5.65		15.15, 15.18, 15.19
VLDO_DO	Internal linear dropout voltage	$I_{VLDO} = 25\text{mA}$ , $C_{VLDO} = 1\mu\text{F}$			0.4	V	15.40, 15.41, 15.42, 15.43, 15.44, 15.45
I_VLDO	Maximum VLDO output current	$V_{LDO} \geq 96\%$ of VLDO at no load, $C_{VLDO} = 1\mu\text{F}$	$V_{IN} = V_{LDO} + 0.5\text{V}$	25		mA	15.2, 15.3, 15.9, 15.10, 15.16, 15.17
			$V_{IN} = V_{LDO} + 1\text{V}$	55			15.28, 15.29, 15.30, 15.34, 15.35, 15.36
			$V_{IN} \geq 7\text{V}$	90			15.6, 15.7, 15.13, 15.14, 15.20, 15.21, 15.31, 15.32, 15.33, 15.37, 15.38, 15.39



**Table 3-1. TPS7H5020-SEP Data Sheet Electrical Parameters (continued)**

PARAMETER		TEST CONDITIONS		MIN	MAX	UNIT	Test #
ENABLE AND UNDERVOLTAGE LOCKOUT							
V <sub>ENR</sub>	Enable rising threshold			0.57	0.66	V	16.1, 16.4, 16.7, 16.10
V <sub>ENF</sub>	Enable falling threshold			0.48	0.55	V	16.2, 16.5, 16.8, 16.11
I <sub>EN</sub>	Enable input leakage current	VIN = 14V	EN = 1V		100	nA	16.15, 16.17
			EN = 7V		700		16.16, 16.18
PVIN <sub>UVLOR</sub>	PVIN UVLO rising			3.65	3.95	V	17.1, 17.10, 17.19
PVIN <sub>UVLOF</sub>	PVIN UVLO falling			3.45	3.75	V	17.2, 17.11, 17.20
VIN <sub>UVLOR</sub>	VIN UVLO rising			3.85	4.15	V	17.4, 17.13, 17.22
VIN <sub>UVLOF</sub>	VIN UVLO falling			3.65	3.95	V	17.5, 17.14, 17.23
VLDO <sub>UVLOR</sub>	VLDO UVLO rising			3.65	3.95	V	17.7, 17.16, 17.25
VLDO <sub>UVLOF</sub>	VLDO UVLO falling			3.45	3.75	V	17.8, 17.17, 17.26
SOFT START							
I <sub>SS</sub>	Soft-start current	SS = 0.3V		2	3.4	μA	18.1, 18.5, 18.9, 18.13, 18.17, 18.21, 18.25, 18.29, 18.33, 18.37, 18.41, 18.45
ERROR AMPLIFIER							
EA <sub>gm</sub>	Error amplifier transconductance	-10μA < I <sub>COMP</sub> < 10μA, V <sub>(COMP)</sub> = 1V		1100	2700	μA/V	19.1, 19.5, 19.9, 19.13
EA <sub>ISRC</sub>	Error amplifier source current	V <sub>(COMP)</sub> = 1V, 100mV input overdrive		95	210	μA	19.2, 19.6, 19.10, 19.14
EA <sub>ISNK</sub>	Error amplifier sink current	V <sub>(COMP)</sub> = 1V, 100mV input overdrive		95	210	μA	19.3, 19.7, 19.11, 19.15
EA <sub>OIS</sub>	Error amplifier input offset voltage			-5	6	mV	19.27, 19.30, 19.33, 19.36, 19.39, 19.42, 19.45, 19.48, 19.51, 19.54, 19.57, 19.60
EA <sub>IB</sub>	Error amplifier input bias current				25	nA	19.4, 19.8, 19.12, 19.16, 19.17, 19.18, 19.19, 19.20, 19.21, 19.22, 19.23, 19.24
OSCILLATOR							

**Table 3-1. TPS7H5020-SEP Data Sheet Electrical Parameters (continued)**

PARAMETER		TEST CONDITIONS		MIN	MAX	UNIT	Test #
SYNC <sub>IL</sub>	SYNC in low-level	VLDO = 4.5V	VIN < 5V		0.8	V	20.1
			VIN ≥ 5V		0.8		20.3, 20.5, 20.7
		VLDO = 5.5V	VIN < 6V		0.8	V	20.9
			VIN ≥ 6V		0.8		20.11, 20.13
SYNC <sub>IH</sub>	SYNC in high-level	VLDO = 4.5V	VIN < 5V	3.5		V	20.2, 20.4
			VIN ≥ 5V	3.5			20.6, 20.8
		VLDO = 5.5V	VIN < 6V	3.5		V	20.1
			VIN ≥ 6V	3.5			20.12, 20.14,
f <sub>SYNC</sub>	SYNC in frequency range			100	1000	kHz	20.16, 20.20, 20.24, 20.28, 20.32, 20.34, 20.36, 20.38, 20.40, 20.44, 20.48, 20.52, 20.56, 20.60, 20.64, 20.68, 20.72, 20.74, 20.76, 20.78, 20.80, 20.82, 20.84, 20.86, 20.88, 20.90, 20.92, 20.94, 20.96, 20.98, 20.100, 20.102
f <sub>sw</sub>	RT programmed switching frequency	RT = 1.18MΩ		80	110	kHz	20.15, 20.19, 20.23, 20.27, 20.71, 20.73, 20.75, 20.77
		RT = 560kΩ		175	220	kHz	20.31, 20.33, 20.35, 20.37, 20.79, 20.81, 20.83, 20.85
		RT = 210kΩ		450	550	kHz	20.39, 20.43, 20.47, 20.51, 20.87, 20.89, 20.91, 20.93
		RT = 100kΩ		925	1100	kHz	20.55, 20.59, 20.63, 20.67, 20.95, 20.97, 20.99, 20.101
VOLTAGE REFERENCE							

**Table 3-1. TPS7H5020-SEP Data Sheet Electrical Parameters (continued)**

PARAMETER		TEST CONDITIONS		MIN	MAX	UNIT	Test #
VREF	Internal voltage reference	Measured at COMP, COMP = VSENSE	TA = 25°C	0.597	0.603	V	19.25, 19.28, 19.31, 19.34, 19.37, 19.40, 19.43, 19.46, 19.49, 19.52, 19.55, 19.58, 19.61, 19.63, 19.65, 19.67, 19.69, 19.71, 19.73, 19.75, 19.77, 19.79, 19.81, 19.83
REFCAP	REFCAP voltage	C <sub>REFCAP</sub> = 470nF		1.208	1.235	V	21.1, 21.3, 21.5, 21.7, 21.9, 21.11, 21.13, 21.15, 21.17, 21.19, 21.21, 21.23, 21.25, 21.27, 21.29, 21.31, 21.33, 21.35, 21.37, 21.39, 21.41, 21.43, 21.45, 21.47
CURRENT SENSE							
CCSR	COMP to CS_ILIM ratio	RSC = open		1.94	2.06		28.1, 28.2, 28.3, 28.4
V <sub>CS_ILIM</sub>	Current limit (overcurrent) threshold			0.96	1.04	V	28.9, 28.10, 28.11, 28.12, 28.13, 28.14, 28.15, 28.16, 28.17, 28.18, 28.19, 28.20
	CS_ILIM to OUT delay	CS_ILIM = 1V to 90% of OUT falling			115	ns	28.21, 28.22, 28.23, 28.24, 28.25, 28.26, 28.27, 28.28, 28.29, 28.30, 28.31, 28.32, 28.33, 28.34, 28.35, 28.36, 28.37, 28.38, 28.39, 28.40, 28.41, 28.42, 28.43, 28.44
GATE DRIVER							
V <sub>OL</sub>	Low-level voltage	I <sub>OL</sub> = 50mA			0.15	V	24.1, 24.3, 24.5, 24.7
PVIN - V <sub>OH</sub>	High-level voltage	I <sub>OH</sub> = 50mA			0.25	V	24.2, 24.4, 24.6, 24.8

**Table 3-1. TPS7H5020-SEP Data Sheet Electrical Parameters (continued)**

PARAMETER		TEST CONDITIONS		MIN	MAX	UNIT	Test #
$t_{R\_OUT}$	OUT rise time	$C_{LOAD} = 1000\text{pF}$ , 10% to 90%	VIN = PVIN = 4.5V		14	ns	24.9
			VIN = PVIN = 5V		14		24.11
			VIN = PVIN = 12V		18		24.13
			VIN = PVIN = 14V		20		24.15
			VIN = 12V, PVIN = VLDO		16		24.17, 24.19, 24.21
		$C_{LOAD} = 220\text{pF}$ , 10% to 90%	VIN = 12V, PVIN = VLDO		12		24.23, 24.25, 24.27
$t_{F\_OUT}$	OUT fall time	$C_{LOAD} = 1000\text{pF}$ , 90% to 10%	VIN = PVIN = 4.5V		14	ns	24.1
			VIN = PVIN = 5V		14		24.12
			VIN = PVIN = 12V		18		24.14
			VIN = PVIN = 14V		18		24.16
			VIN = 12V, PVIN = VLDO		14		24.18, 24.20, 24.22
		$C_{LOAD} = 220\text{pF}$ , 90% to 10%	VIN = 12V, PVIN = VLDO		10		24.24, 24.26, 24.28
$R_{OH}$	Pull-up resistance	100mA from OUT			4.7	$\Omega$	23.5, 23.7, 23.9, 23.11
$R_{OL}$	Pull-down resistance	100mA into OUT			2.8	$\Omega$	23.6, 23.8, 23.10, 23.12
$V_{UCLAMP}$	Unpowered OUT clamp voltage	Switching disabled, SYS_ON = 0 1mA pull-up applied to OUT	PVIN = 0V		1	V	24.29
			0V < PVIN < 5V		2.5		24.3
<b>PWM AND DUTY CYCLE</b>							
TLEB	Leading edge blank time	5V $\leq$ VIN $\leq$ 14V, 10% of OUT rising to end of blanking			80	ns	25.1, 25.4, 25.7
$t_{on\_min}$	Minimum on-time				165	ns	26.1, 26.2, 26.3, 26.4
$t_{off\_min}$	Minimum off-time				70	ns	26.5, 26.7

## 4 Applicable and Reference Documents

### 4.1 Applicable Documents

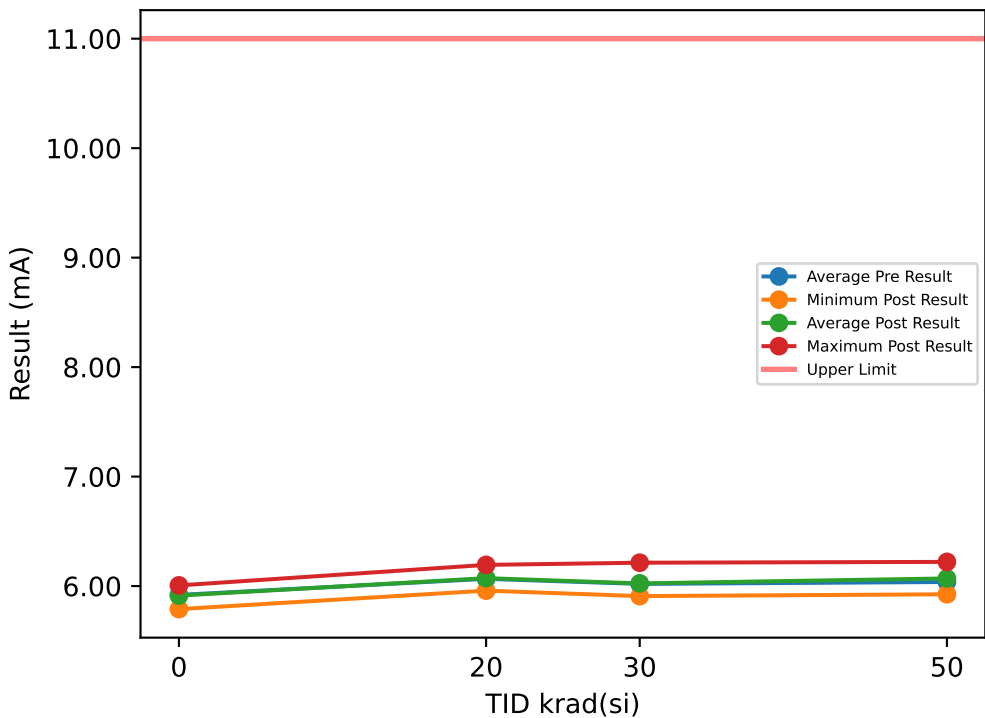
- Texas Instruments, [TPS7H502x-SP and TPS7H502x-SEP Radiation-Hardened 1MHz Current Mode PWM Controller With Integrated Gate Driver](#), data sheet
- Texas Instruments, [TPS7H5020-SP Evaluation Module](#), EVM user's guide.

### 4.2 Reference Documents

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

## A Appendix: HDR TID Report

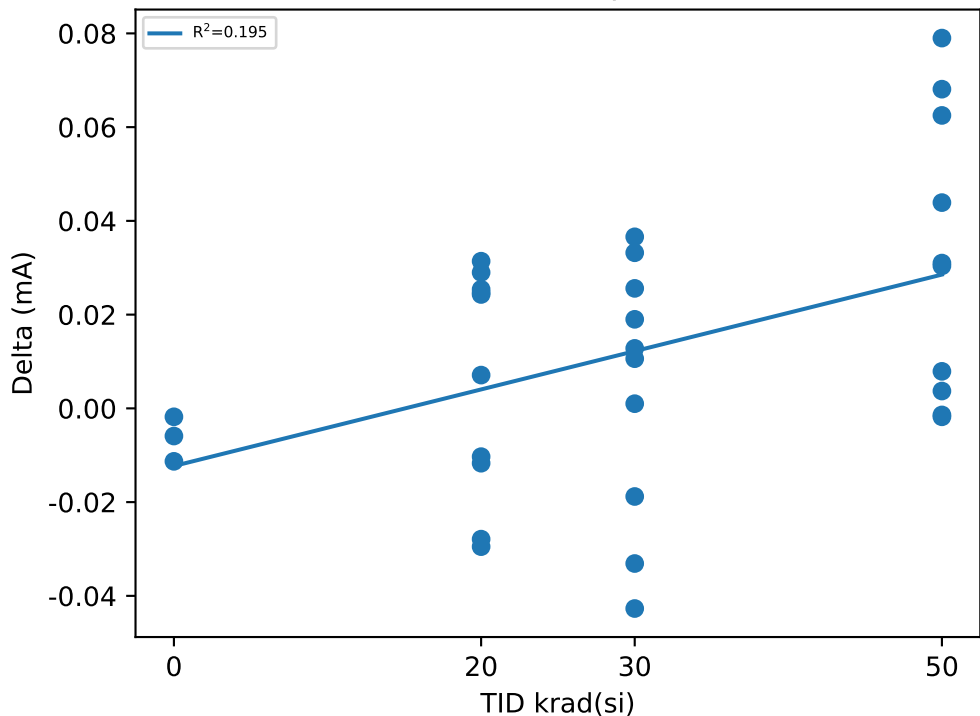
TID vs Result Stats



Test Results (Upper Limit = 11.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.0879	6.1193	0.0314
22	20	HDR BIAS	6.025	6.0493	0.0243
23	20	HDR BIAS	6.0321	6.0575	0.0254
24	20	HDR BIAS	6.1491	6.1196	-0.0295
25	20	HDR BIAS	6.1697	6.1418	-0.0279
26	20	HDR UNBIAS	6.056	6.0443	-0.0117
27	20	HDR UNBIAS	6.1646	6.1936	0.029
28	20	HDR UNBIAS	5.9335	5.9582	0.0247
29	20	HDR UNBIAS	6.0852	6.0749	-0.0103
30	20	HDR UNBIAS	5.9575	5.9646	0.0071
31	30	HDR BIAS	5.9785	5.9454	-0.0331
32	30	HDR BIAS	6.1357	6.1547	0.019
33	30	HDR BIAS	5.9746	6.0078	0.0332
34	30	HDR BIAS	5.9263	5.9273	0.001
35	30	HDR BIAS	5.9595	5.9723	0.0128
36	30	HDR UNBIAS	6.0699	6.1065	0.0366
37	30	HDR UNBIAS	6.01	6.0206	0.0106
38	30	HDR UNBIAS	5.9615	5.9871	0.0256
39	30	HDR UNBIAS	6.2561	6.2134	-0.0427
40	30	HDR UNBIAS	5.9271	5.9083	-0.0188
41	50	HDR BIAS	5.9268	5.925	-0.0018
42	50	HDR BIAS	6.0169	6.0155	-0.0014
43	50	HDR BIAS	5.9751	6.0055	0.0304
44	50	HDR BIAS	6.1145	6.1826	0.0681
45	50	HDR BIAS	6.0765	6.0844	0.0079
46	50	HDR UNBIAS	6.0451	6.1076	0.0625
47	50	HDR UNBIAS	6.0187	6.0224	0.0037
48	50	HDR UNBIAS	5.9468	5.9907	0.0439
49	50	HDR UNBIAS	6.1899	6.2209	0.031
50	50	HDR UNBIAS	6.063	6.142	0.079
71	0	CORRELATION	5.954	5.9427	-0.0113
72	0	CORRELATION	5.7954	5.7895	-0.0059
73	0	CORRELATION	6.0079	6.0061	-0.0018

TID vs Post - Pre Exposure Delta



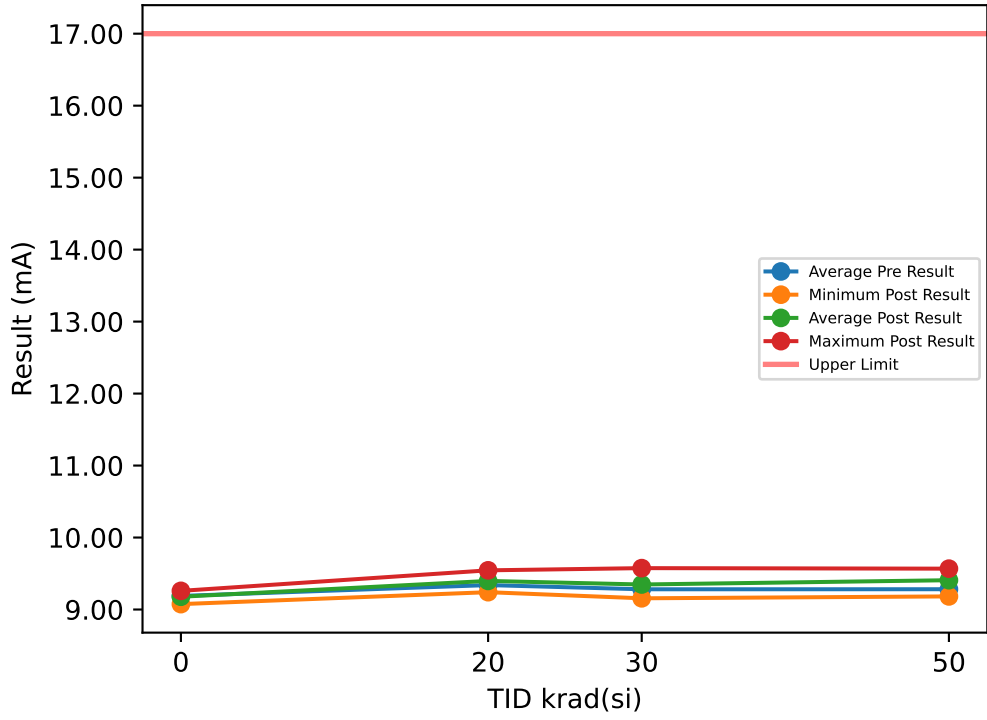
Test Statistics (mA)

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	5.7954	5.9191	6.0079	0.11047	5.7895	5.9128	6.0061	0.11136	-0.0113	-0.0063333	-0.0018	0.0047648
20	5.9335	6.0661	6.1697	0.081981	5.9582	6.0723	6.1936	0.074645	-0.0295	0.00625	0.0314	0.024093
30	5.9263	6.0199	6.2561	0.10541	5.9083	6.0243	6.2134	0.10164	-0.0427	0.00442	0.0366	0.027512
50	5.9268	6.0373	6.1899	0.079258	5.925	6.0697	6.2209	0.093668	-0.0018	0.03233	0.079	0.030233



# Device Test: 14.10 IDD|SUPPLY CURRENT/IN/12/12/0/0/5/500kHz//@IDD\_ACT\_500K\_NOLOAD

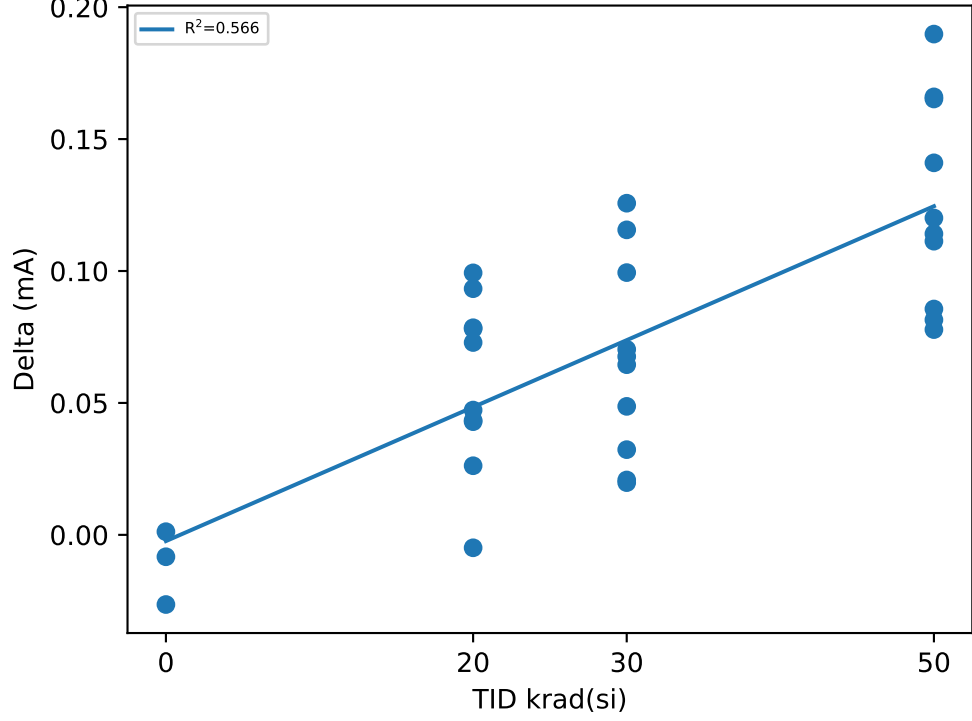
### TID vs Result Stats



### Test Results (Upper Limit = 17.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	9.451	9.5443	0.0933
22	20	HDR BIAS	9.2825	9.3298	0.0473
23	20	HDR BIAS	9.3641	9.4422	0.0781
24	20	HDR BIAS	9.3339	9.3601	0.0262
25	20	HDR BIAS	9.4803	9.4754	-0.0049
26	20	HDR UNBIAS	9.3902	9.4336	0.0434
27	20	HDR UNBIAS	9.3786	9.4779	0.0993
28	20	HDR UNBIAS	9.1679	9.2408	0.0729
29	20	HDR UNBIAS	9.3363	9.3792	0.0429
30	20	HDR UNBIAS	9.2093	9.2878	0.0785
31	30	HDR BIAS	9.272	9.2918	0.0198
32	30	HDR BIAS	9.3949	9.4652	0.0703
33	30	HDR BIAS	9.2832	9.3826	0.0994
34	30	HDR BIAS	9.135	9.1558	0.0208
35	30	HDR BIAS	9.1736	9.2381	0.0645
36	30	HDR UNBIAS	9.3134	9.4391	0.1257
37	30	HDR UNBIAS	9.2469	9.3145	0.0676
38	30	HDR UNBIAS	9.2742	9.3898	0.1156
39	30	HDR UNBIAS	9.5262	9.5749	0.0487
40	30	HDR UNBIAS	9.1919	9.2242	0.0323
41	50	HDR BIAS	9.1043	9.1821	0.0778
42	50	HDR BIAS	9.2168	9.3024	0.0856
43	50	HDR BIAS	9.1872	9.2687	0.0815
44	50	HDR BIAS	9.3763	9.5173	0.141
45	50	HDR BIAS	9.3148	9.4349	0.1201
46	50	HDR UNBIAS	9.356	9.5212	0.1652
47	50	HDR UNBIAS	9.2635	9.3748	0.1113
48	50	HDR UNBIAS	9.2103	9.3763	0.166
49	50	HDR UNBIAS	9.4535	9.5676	0.1141
50	50	HDR UNBIAS	9.336	9.5258	0.1898
71	0	CORRELATION	9.2247	9.1983	-0.0264
72	0	CORRELATION	9.0833	9.075	-0.0083
73	0	CORRELATION	9.2579	9.2591	0.0012

### TID vs Post - Pre Exposure Delta

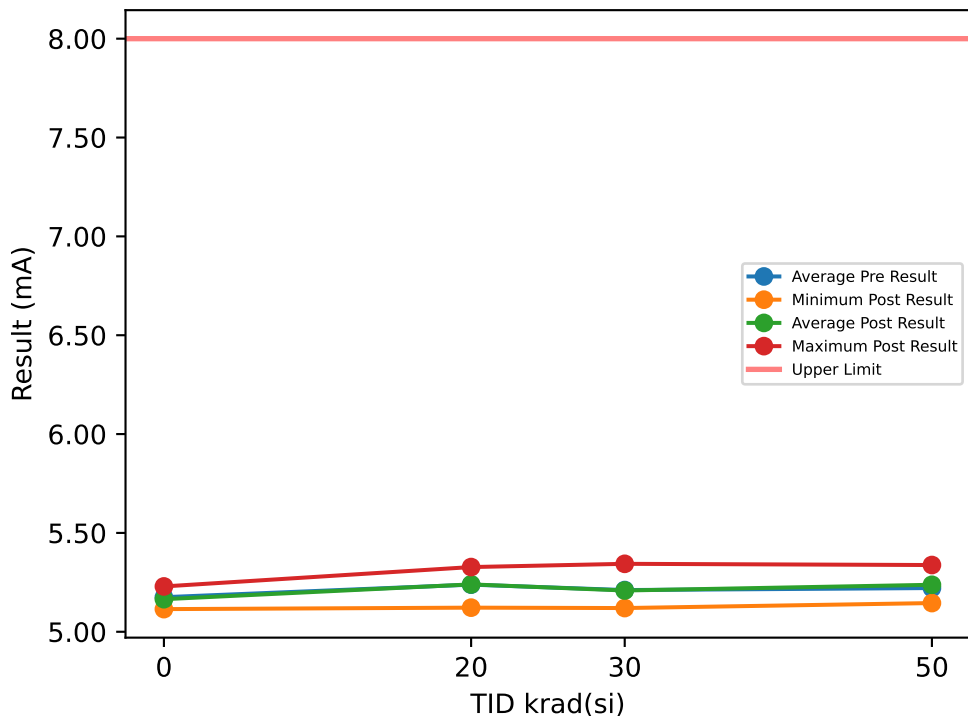


### Test Statistics (mA)

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	9.0833	9.1886	9.2579	0.092719	9.075	9.1775	9.2591	0.093802	-0.0264	-0.011167	0.0012	0.014022
20	9.1679	9.3394	9.4803	0.098122	9.2408	9.3971	9.5443	0.094451	-0.0049	0.0577	0.0993	0.032524
30	9.135	9.2811	9.5262	0.11364	9.1558	9.3476	9.5749	0.12697	0.0198	0.06647	0.1257	0.037673
50	9.1043	9.2819	9.4535	0.10439	9.1821	9.4071	9.5676	0.12846	0.0778	0.12524	0.1898	0.039093

# Device Test: 14.11 IDD\_DIS|STANDBY CURRENT/IN/12/12/0/0/5/500kHz//@IDD\_DIS

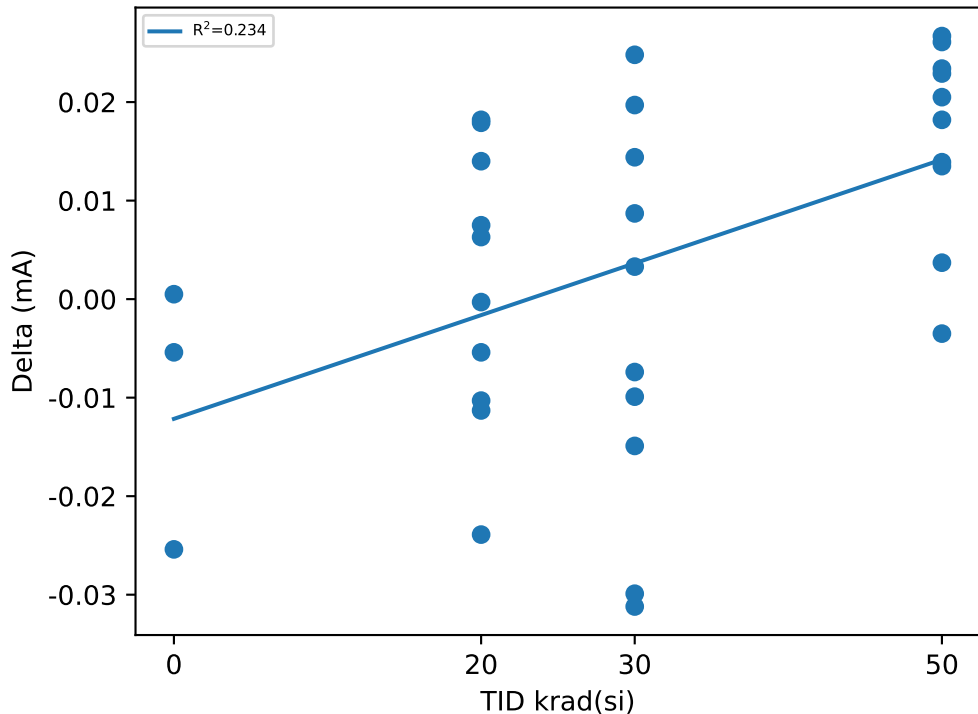
### TID vs Result Stats



### Test Results (Upper Limit = 8.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5.3091	5.3273	0.0182
22	20	HDR BIAS	5.2028	5.2091	0.0063
23	20	HDR BIAS	5.2684	5.2824	0.014
24	20	HDR BIAS	5.2665	5.2552	-0.0113
25	20	HDR BIAS	5.2905	5.2666	-0.0239
26	20	HDR UNBIAS	5.2577	5.2523	-0.0054
27	20	HDR UNBIAS	5.3004	5.3079	0.0075
28	20	HDR UNBIAS	5.1223	5.122	-0.0003
29	20	HDR UNBIAS	5.2222	5.2119	-0.0103
30	20	HDR UNBIAS	5.1442	5.1621	0.0179
31	30	HDR BIAS	5.1906	5.1607	-0.0299
32	30	HDR BIAS	5.2872	5.2959	0.0087
33	30	HDR BIAS	5.1564	5.1812	0.0248
34	30	HDR BIAS	5.1349	5.12	-0.0149
35	30	HDR BIAS	5.1727	5.176	0.0033
36	30	HDR UNBIAS	5.2336	5.248	0.0144
37	30	HDR UNBIAS	5.2206	5.2107	-0.0099
38	30	HDR UNBIAS	5.1892	5.2089	0.0197
39	30	HDR UNBIAS	5.3511	5.3437	-0.0074
40	30	HDR UNBIAS	5.1736	5.1424	-0.0312
41	50	HDR BIAS	5.127	5.1452	0.0182
42	50	HDR BIAS	5.2247	5.2386	0.0139
43	50	HDR BIAS	5.1681	5.1646	-0.0035
44	50	HDR BIAS	5.2775	5.298	0.0205
45	50	HDR BIAS	5.2618	5.2847	0.0229
46	50	HDR UNBIAS	5.21	5.2334	0.0234
47	50	HDR UNBIAS	5.2101	5.2236	0.0135
48	50	HDR UNBIAS	5.174	5.2001	0.0261
49	50	HDR UNBIAS	5.3339	5.3376	0.0037
50	50	HDR UNBIAS	5.2243	5.251	0.0267
71	0	CORRELATION	5.1759	5.1505	-0.0254
72	0	CORRELATION	5.12	5.1146	-0.0054
73	0	CORRELATION	5.2288	5.2293	0.0005

### TID vs Post - Pre Exposure Delta

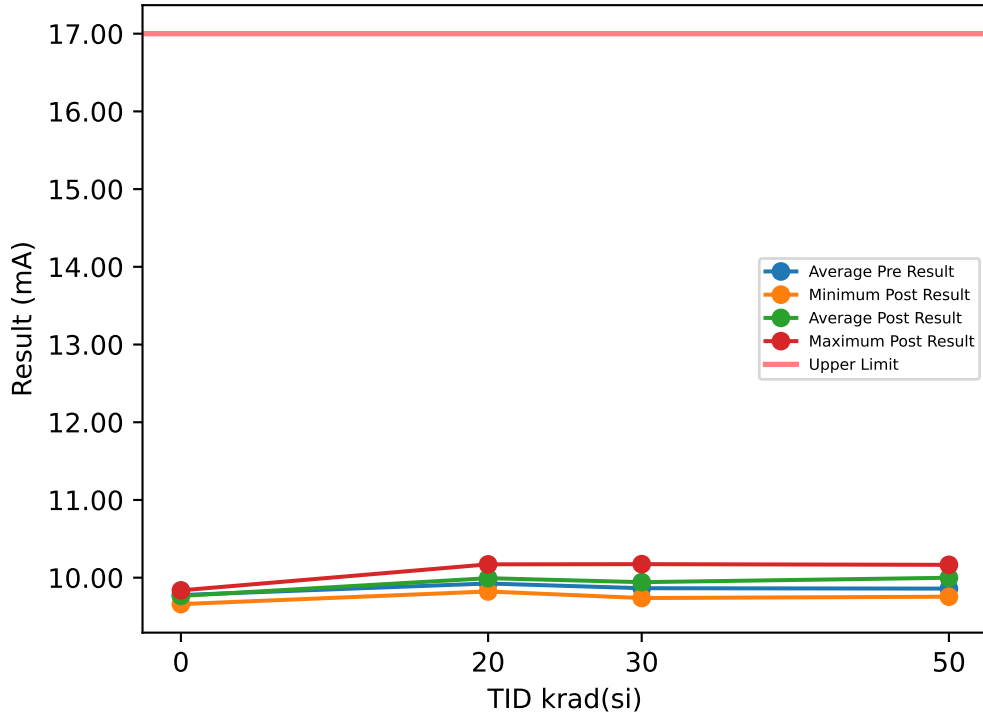


### Test Statistics (mA)

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	5.12	5.1749	5.2288	0.054407	5.1146	5.1648	5.2293	0.058672	-0.0254	-0.0101	0.0005	0.013575
20	5.1223	5.2384	5.3091	0.064551	5.122	5.2397	5.3273	0.063992	-0.0239	0.00127	0.0182	0.013991
30	5.1349	5.211	5.3511	0.065461	5.12	5.2088	5.3437	0.069738	-0.0312	-0.00224	0.0248	0.01969
50	5.127	5.2211	5.3339	0.059359	5.1452	5.2377	5.3376	0.059192	-0.0035	0.01654	0.0267	0.0099065

# Device Test: 14.12 IDD|SUPPLY CURRENT/IN/14/14/0/0/5/500kHz//@IDD\_ACT\_500K\_NOLOAD

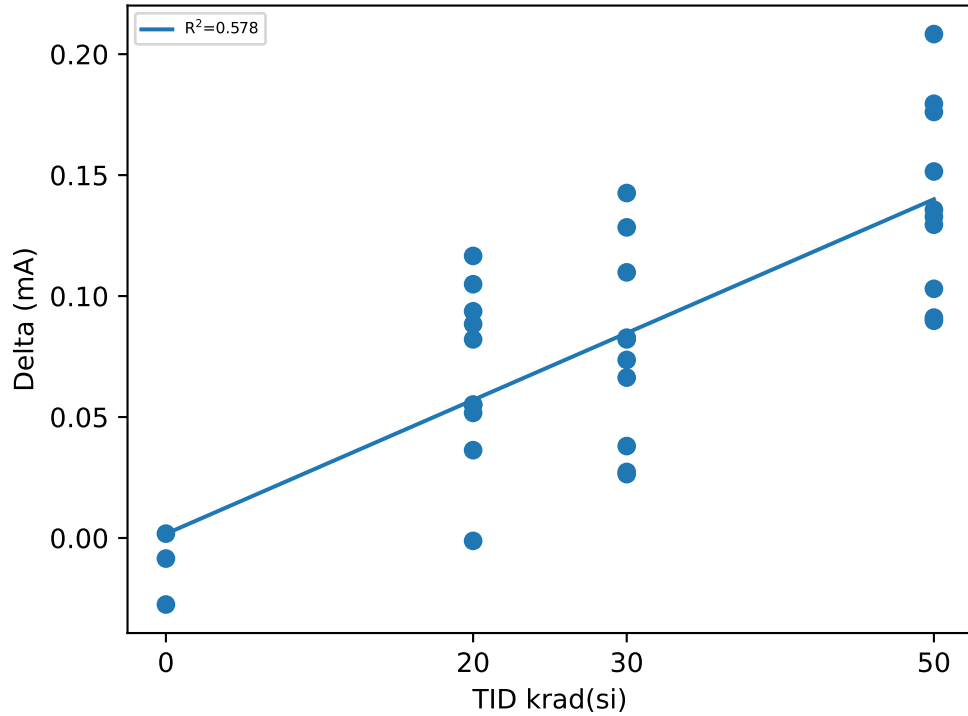
### TID vs Result Stats



### Test Results (Upper Limit = 17.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	10.066	10.171	0.1049
22	20	HDR BIAS	9.8801	9.9318	0.0517
23	20	HDR BIAS	9.9656	10.054	0.0884
24	20	HDR BIAS	9.8901	9.9264	0.0363
25	20	HDR BIAS	10.063	10.062	-0.0012
26	20	HDR UNBIAS	9.99	10.045	0.0551
27	20	HDR UNBIAS	9.9479	10.065	0.1166
28	20	HDR UNBIAS	9.7403	9.8224	0.0821
29	20	HDR UNBIAS	9.9305	9.9856	0.0551
30	20	HDR UNBIAS	9.7777	9.8714	0.0937
31	30	HDR BIAS	9.8747	9.9011	0.0264
32	30	HDR BIAS	9.9802	10.063	0.0828
33	30	HDR BIAS	9.8626	9.9724	0.1098
34	30	HDR BIAS	9.7107	9.738	0.0273
35	30	HDR BIAS	9.7442	9.8178	0.0736
36	30	HDR UNBIAS	9.8877	10.03	0.1426
37	30	HDR UNBIAS	9.8106	9.8927	0.0821
38	30	HDR UNBIAS	9.8902	10.019	0.1284
39	30	HDR UNBIAS	10.108	10.174	0.0663
40	30	HDR UNBIAS	9.7761	9.8141	0.038
41	50	HDR BIAS	9.6639	9.755	0.0911
42	50	HDR BIAS	9.7754	9.8784	0.103
43	50	HDR BIAS	9.7488	9.8386	0.0898
44	50	HDR BIAS	9.9606	10.112	0.1515
45	50	HDR BIAS	9.8874	10.023	0.1357
46	50	HDR UNBIAS	9.9566	10.133	0.1761
47	50	HDR UNBIAS	9.8486	9.9781	0.1295
48	50	HDR UNBIAS	9.7993	9.9788	0.1795
49	50	HDR UNBIAS	10.033	10.165	0.1328
50	50	HDR UNBIAS	9.9196	10.128	0.2083
71	0	CORRELATION	9.8262	9.7987	-0.0275
72	0	CORRELATION	9.6683	9.6598	-0.0085
73	0	CORRELATION	9.8349	9.8367	0.0018

### TID vs Post - Pre Exposure Delta

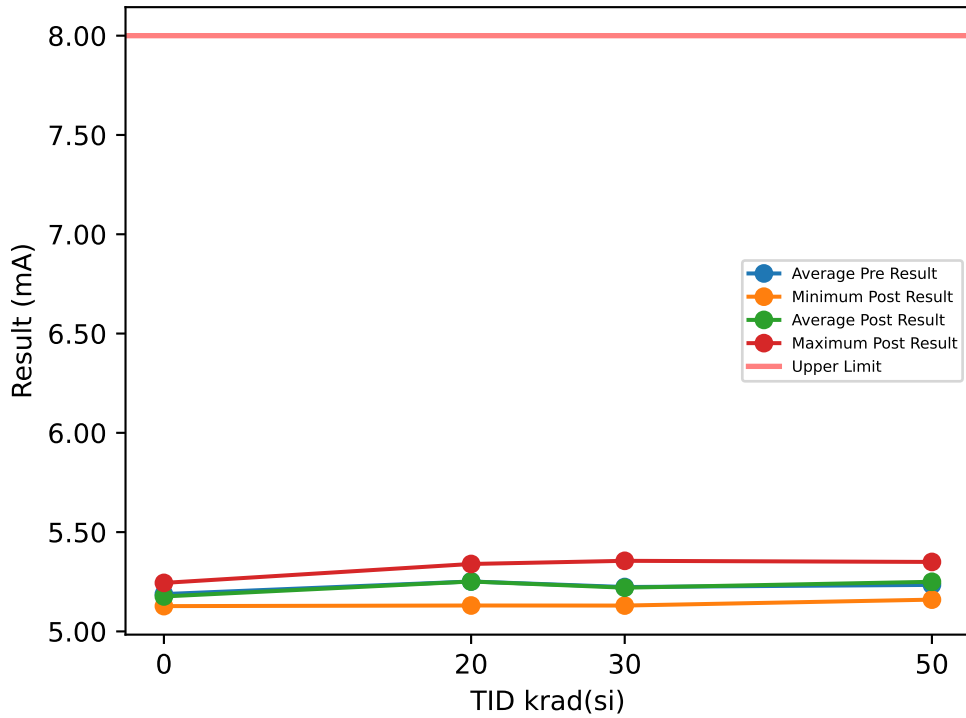


### Test Statistics (mA)

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	9.6683	9.7765	9.8349	0.093776	9.6598	9.7651	9.8367	0.093123	-0.0275	-0.0114	0.0018	0.014864
20	9.7403	9.9251	10.066	0.10775	9.8224	9.9934	10.171	0.10552	-0.0012	0.06827	0.1166	0.035575
30	9.7107	9.8645	10.108	0.11678	9.738	9.9422	10.174	0.13358	0.0264	0.07773	0.1426	0.040487
50	9.6639	9.8593	10.033	0.11319	9.755	9.999	10.165	0.13991	0.0898	0.13973	0.2083	0.03961

# Device Test: 14.13 IDD\_DIS|STANDBY CURRENT/IN/14/14/0/0/5/500kHz//@IDD\_DIS

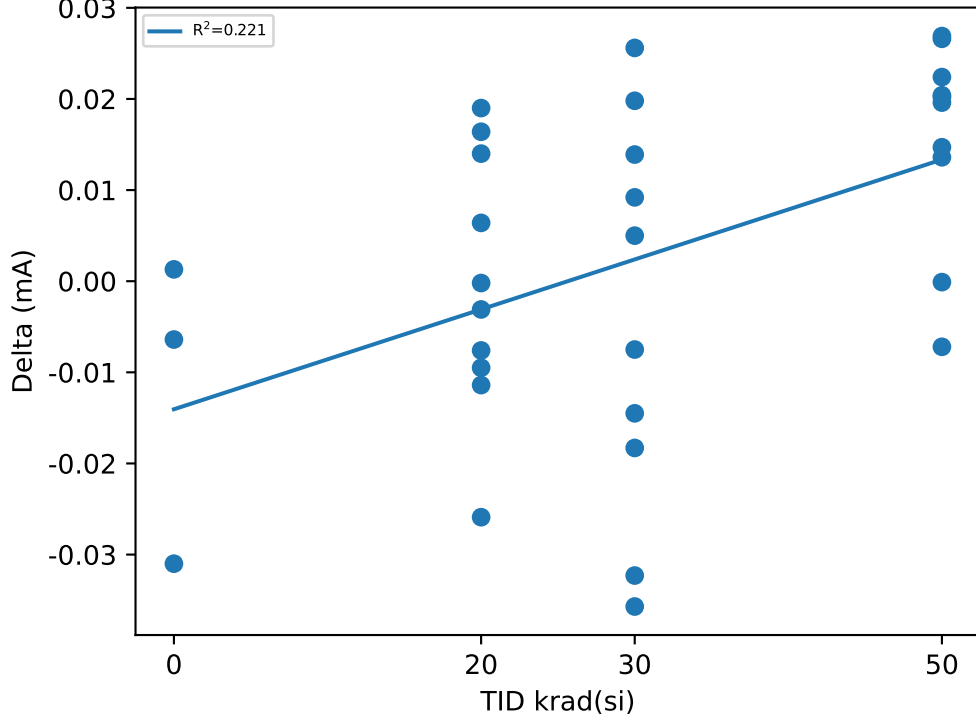
### TID vs Result Stats



### Test Results (Upper Limit = 8.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5.3232	5.3396	0.0164
22	20	HDR BIAS	5.2169	5.2167	-0.0002
23	20	HDR BIAS	5.282	5.296	0.014
24	20	HDR BIAS	5.2797	5.2683	-0.0114
25	20	HDR BIAS	5.3015	5.2756	-0.0259
26	20	HDR UNBIAS	5.272	5.2644	-0.0076
27	20	HDR UNBIAS	5.3145	5.3209	0.0064
28	20	HDR UNBIAS	5.1336	5.1305	-0.0031
29	20	HDR UNBIAS	5.2345	5.225	-0.0095
30	20	HDR UNBIAS	5.157	5.176	0.019
31	30	HDR BIAS	5.2058	5.1701	-0.0357
32	30	HDR BIAS	5.2982	5.3074	0.0092
33	30	HDR BIAS	5.1654	5.191	0.0256
34	30	HDR BIAS	5.1485	5.1302	-0.0183
35	30	HDR BIAS	5.1827	5.1877	0.005
36	30	HDR UNBIAS	5.2488	5.2627	0.0139
37	30	HDR UNBIAS	5.2351	5.2206	-0.0145
38	30	HDR UNBIAS	5.2029	5.2227	0.0198
39	30	HDR UNBIAS	5.363	5.3555	-0.0075
40	30	HDR UNBIAS	5.1855	5.1532	-0.0323
41	50	HDR BIAS	5.1404	5.16	0.0196
42	50	HDR BIAS	5.2366	5.2513	0.0147
43	50	HDR BIAS	5.1821	5.1749	-0.0072
44	50	HDR BIAS	5.2888	5.3092	0.0204
45	50	HDR BIAS	5.2759	5.2983	0.0224
46	50	HDR UNBIAS	5.2226	5.2428	0.0202
47	50	HDR UNBIAS	5.2224	5.236	0.0136
48	50	HDR UNBIAS	5.1886	5.2152	0.0266
49	50	HDR UNBIAS	5.35	5.3499	-0.0001
50	50	HDR UNBIAS	5.235	5.2619	0.0269
71	0	CORRELATION	5.1873	5.1563	-0.031
72	0	CORRELATION	5.1338	5.1274	-0.0064
73	0	CORRELATION	5.243	5.2443	0.0013

### TID vs Post - Pre Exposure Delta

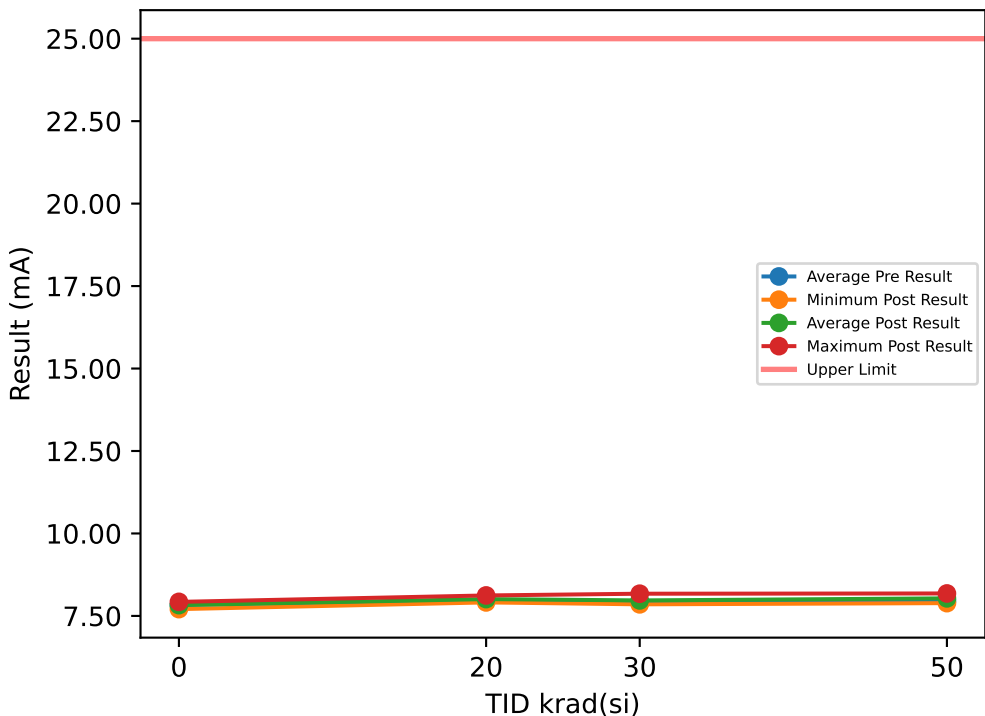


### Test Statistics (mA)

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	5.1338	5.188	5.243	0.054604	5.1274	5.176	5.2443	0.060889	-0.031	-0.012033	0.0013	0.016871
20	5.1336	5.2515	5.3232	0.065041	5.1305	5.2513	5.3396	0.064843	-0.0259	-0.00019	0.019	0.01424
30	5.1485	5.2236	5.363	0.065542	5.1302	5.2201	5.3555	0.070499	-0.0357	-0.00348	0.0256	0.021469
50	5.1404	5.2342	5.35	0.05963	5.16	5.25	5.3499	0.05884	-0.0072	0.01571	0.0269	0.011186

Device Test: 14.14 IDD|SUPPLY CURRENT/IN/4.5/4.5/0/0/4.5/1MHz//@IDD\_ACT\_1M\_NOLOAD

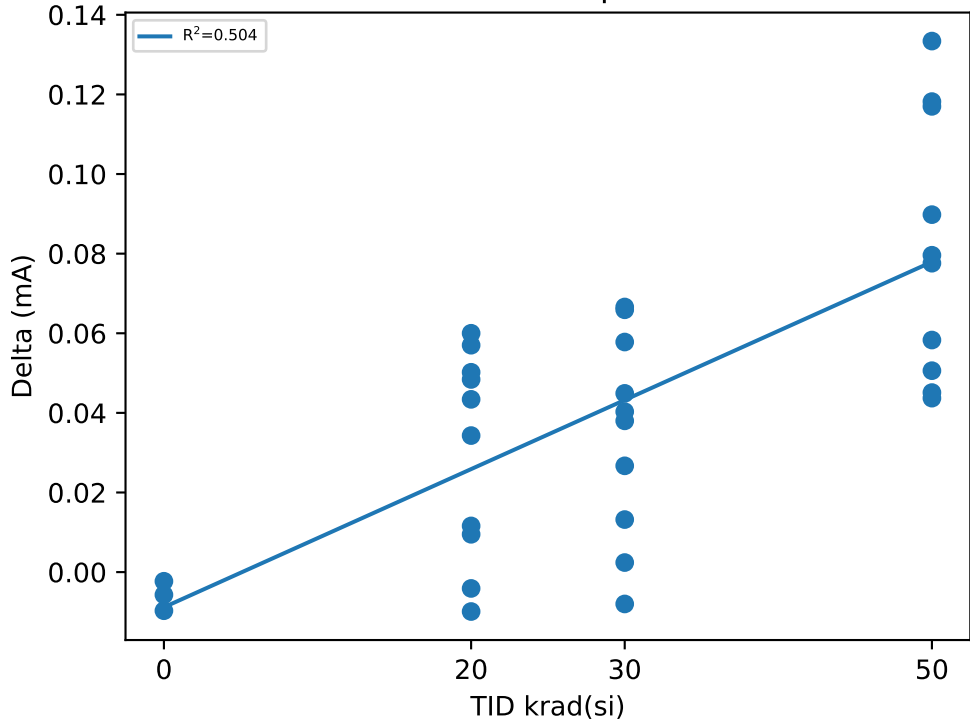
TID vs Result Stats



Test Results (Upper Limit = 25.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	8.0115	8.0715	0.06
22	20	HDR BIAS	7.9213	7.9647	0.0434
23	20	HDR BIAS	7.9426	7.9928	0.0502
24	20	HDR BIAS	8.0405	8.0364	-0.0041
25	20	HDR BIAS	8.1096	8.0997	-0.0099
26	20	HDR UNBIAS	7.9758	7.9853	0.0095
27	20	HDR UNBIAS	8.0639	8.1209	0.057
28	20	HDR UNBIAS	7.8611	7.9095	0.0484
29	20	HDR UNBIAS	8.0003	8.0119	0.0116
30	20	HDR UNBIAS	7.8789	7.9132	0.0343
31	30	HDR BIAS	7.8555	7.8579	0.0024
32	30	HDR BIAS	8.0544	8.0993	0.0449
33	30	HDR BIAS	7.9131	7.979	0.0659
34	30	HDR BIAS	7.8248	7.8515	0.0267
35	30	HDR BIAS	7.8736	7.9139	0.0403
36	30	HDR UNBIAS	7.9948	8.0614	0.0666
37	30	HDR UNBIAS	7.9292	7.9672	0.038
38	30	HDR UNBIAS	7.8829	7.9407	0.0578
39	30	HDR UNBIAS	8.1813	8.1733	-0.008
40	30	HDR UNBIAS	7.8437	7.8569	0.0132
41	50	HDR BIAS	7.8426	7.8877	0.0451
42	50	HDR BIAS	7.9232	7.9669	0.0437
43	50	HDR BIAS	7.8862	7.9638	0.0776
44	50	HDR BIAS	8.0237	8.1407	0.117
45	50	HDR BIAS	7.9821	8.0404	0.0583
46	50	HDR UNBIAS	7.9755	8.0937	0.1182
47	50	HDR UNBIAS	7.9298	7.9804	0.0506
48	50	HDR UNBIAS	7.8589	7.9487	0.0898
49	50	HDR UNBIAS	8.1014	8.181	0.0796
50	50	HDR UNBIAS	7.9899	8.1233	0.1334
71	0	CORRELATION	7.8591	7.8494	-0.0097
72	0	CORRELATION	7.7121	7.7064	-0.0057
73	0	CORRELATION	7.9282	7.9259	-0.0023

TID vs Post - Pre Exposure Delta

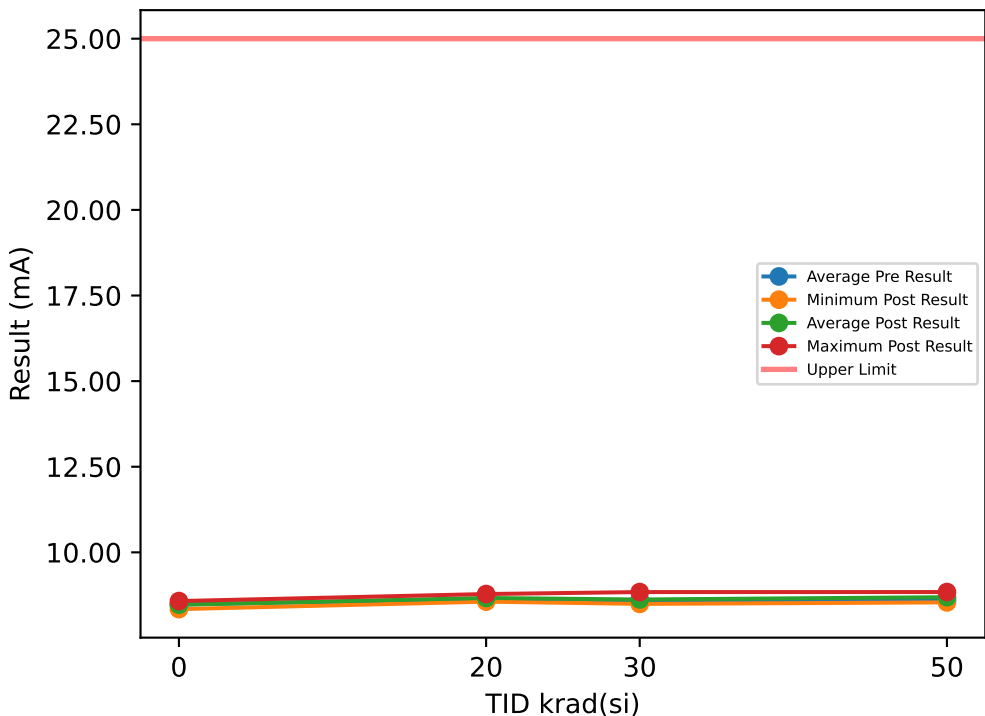


Test Statistics (mA)

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	7.7121	7.8331	7.9282	0.11037	7.7064	7.8272	7.9259	0.11142	-0.0097	-0.0059	-0.0023	0.0037041
20	7.8611	7.9805	8.1096	0.080359	7.9095	8.0106	8.1209	0.072459	-0.0099	0.03004	0.06	0.026007
30	7.8248	7.9353	8.1813	0.1117	7.8515	7.9701	8.1733	0.1105	-0.008	0.03478	0.0666	0.025957
50	7.8426	7.9513	8.1014	0.07933	7.8877	8.0327	8.181	0.09749	0.0437	0.08133	0.1334	0.032719

# Device Test: 14.15 IDD|SUPPLY CURRENT|IN/5/5/0/0/5/1MHz//@IDD\_ACT\_1M\_NOLOAD

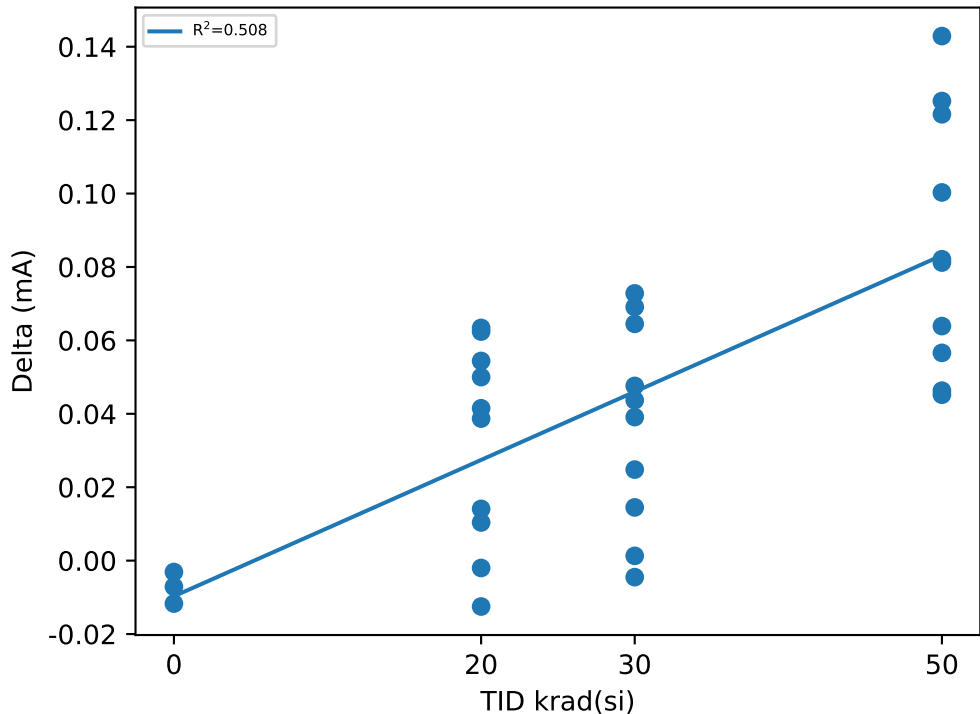
### TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	8.6686	8.731	0.0624
22	20	HDR BIAS	8.5756	8.6171	0.0415
23	20	HDR BIAS	8.5947	8.6491	0.0544
24	20	HDR BIAS	8.6977	8.6957	-0.002
25	20	HDR BIAS	8.7718	8.7593	-0.0125
26	20	HDR UNBIAS	8.6325	8.6429	0.0104
27	20	HDR UNBIAS	8.7194	8.7828	0.0634
28	20	HDR UNBIAS	8.5106	8.5606	0.05
29	20	HDR UNBIAS	8.6543	8.6684	0.0141
30	20	HDR UNBIAS	8.5316	8.5703	0.0387
31	30	HDR BIAS	8.5022	8.5035	0.0013
32	30	HDR BIAS	8.7093	8.7569	0.0476
33	30	HDR BIAS	8.5683	8.6374	0.0691
34	30	HDR BIAS	8.4701	8.4949	0.0248
35	30	HDR BIAS	8.5205	8.5642	0.0437
36	30	HDR UNBIAS	8.6478	8.7206	0.0728
37	30	HDR UNBIAS	8.5824	8.6215	0.0391
38	30	HDR UNBIAS	8.5285	8.593	0.0645
39	30	HDR UNBIAS	8.8448	8.8403	-0.0045
40	30	HDR UNBIAS	8.4893	8.5038	0.0145
41	50	HDR BIAS	8.4933	8.5385	0.0452
42	50	HDR BIAS	8.5689	8.6152	0.0463
43	50	HDR BIAS	8.5389	8.6201	0.0812
44	50	HDR BIAS	8.678	8.8032	0.1252
45	50	HDR BIAS	8.6329	8.6968	0.0639
46	50	HDR UNBIAS	8.6302	8.7518	0.1216
47	50	HDR UNBIAS	8.5823	8.6389	0.0566
48	50	HDR UNBIAS	8.5093	8.6096	0.1003
49	50	HDR UNBIAS	8.7586	8.8407	0.0821
50	50	HDR UNBIAS	8.6472	8.7901	0.1429
71	0	CORRELATION	8.5049	8.4932	-0.0117
72	0	CORRELATION	8.3495	8.3424	-0.0071
73	0	CORRELATION	8.5805	8.5774	-0.0031

### TID vs Post - Pre Exposure Delta



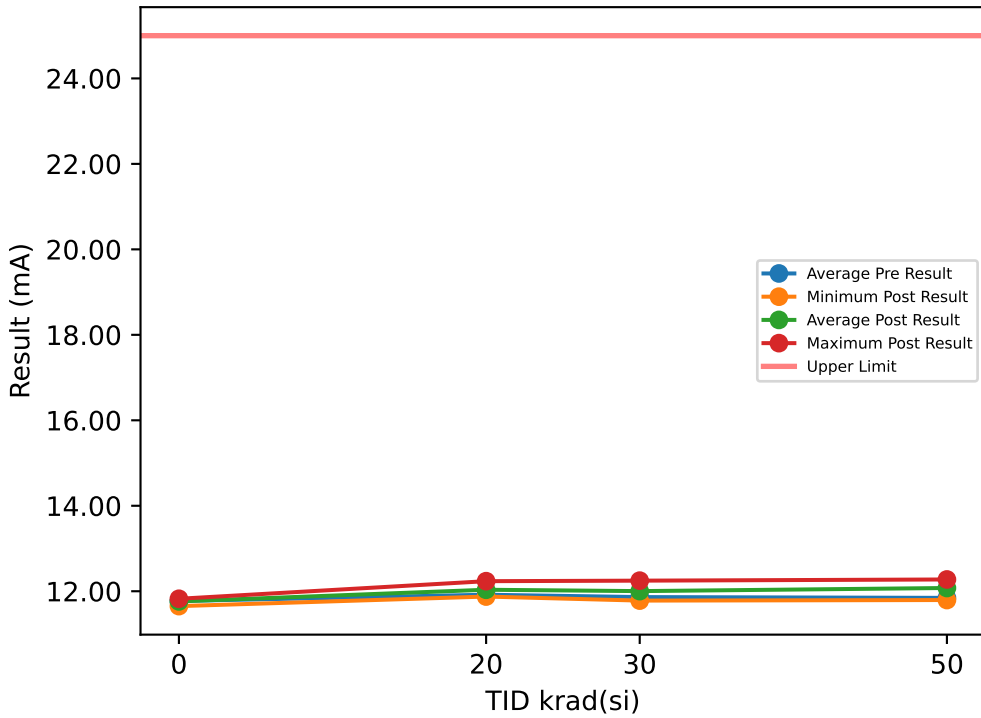
### Test Statistics (mA)

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	8.3495	8.4783	8.5805	0.11777	8.3424	8.471	8.5774	0.11906	-0.0117	-0.0073	-0.0031	0.0043035
20	8.5106	8.6357	8.7718	0.083394	8.5606	8.6677	8.7828	0.07521	-0.0125	0.03204	0.0634	0.027476
30	8.4701	8.5863	8.8448	0.11725	8.4949	8.6236	8.8403	0.11744	-0.0045	0.03729	0.0728	0.02765
50	8.4933	8.604	8.7586	0.081601	8.5385	8.6905	8.8407	0.10106	0.0452	0.08653	0.1429	0.034761



# Device Test: 14.16 IDD|SUPPLY CURRENT|IN/12/12/0/0/5/1MHz//@IDD\_ACT\_1M\_NOLOAD

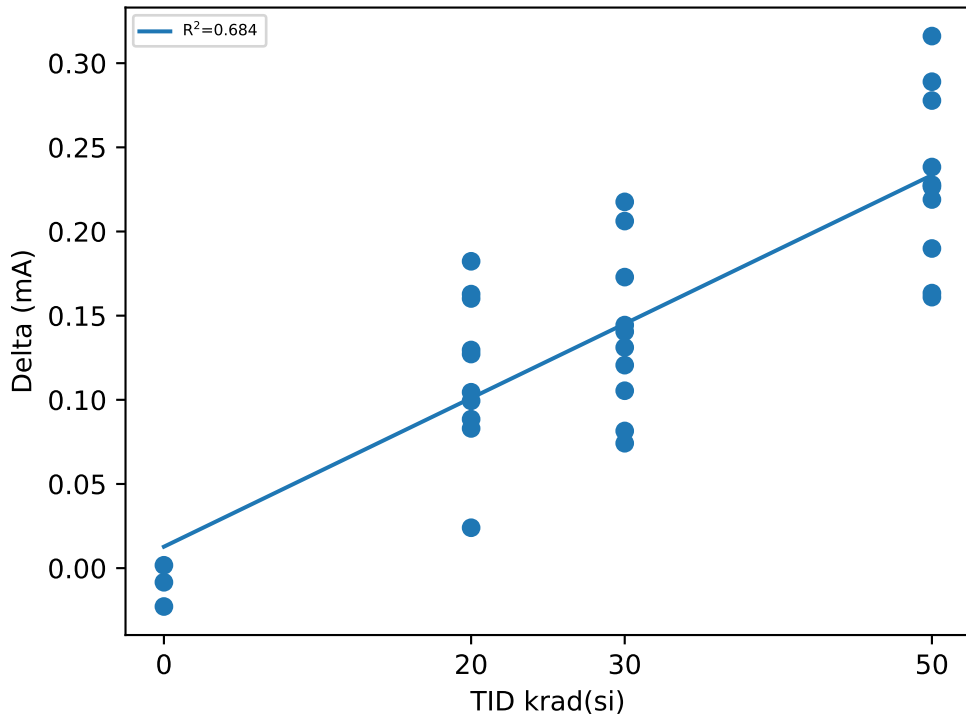
### TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	12.073	12.235	0.1628
22	20	HDR BIAS	11.879	11.967	0.0885
23	20	HDR BIAS	11.951	12.08	0.1296
24	20	HDR BIAS	11.868	11.951	0.083
25	20	HDR BIAS	12.096	12.12	0.024
26	20	HDR UNBIAS	11.99	12.09	0.0994
27	20	HDR UNBIAS	11.918	12.1	0.1823
28	20	HDR UNBIAS	11.748	11.876	0.1272
29	20	HDR UNBIAS	11.91	12.015	0.1045
30	20	HDR UNBIAS	11.752	11.912	0.1602
31	30	HDR BIAS	11.873	11.954	0.0815
32	30	HDR BIAS	11.951	12.082	0.1311
33	30	HDR BIAS	11.932	12.104	0.1729
34	30	HDR BIAS	11.707	11.781	0.0742
35	30	HDR BIAS	11.712	11.833	0.1206
36	30	HDR UNBIAS	11.876	12.093	0.2176
37	30	HDR UNBIAS	11.786	11.926	0.1405
38	30	HDR UNBIAS	11.918	12.124	0.2062
39	30	HDR UNBIAS	12.103	12.248	0.1444
40	30	HDR UNBIAS	11.777	11.883	0.1054
41	50	HDR BIAS	11.633	11.794	0.161
42	50	HDR BIAS	11.725	11.915	0.1899
43	50	HDR BIAS	11.739	11.902	0.1634
44	50	HDR BIAS	11.931	12.169	0.2383
45	50	HDR BIAS	11.873	12.101	0.2278
46	50	HDR UNBIAS	11.998	12.275	0.2778
47	50	HDR UNBIAS	11.835	12.055	0.219
48	50	HDR UNBIAS	11.778	12.067	0.289
49	50	HDR UNBIAS	12.015	12.242	0.2266
50	50	HDR UNBIAS	11.921	12.237	0.3161
71	0	CORRELATION	11.834	11.811	-0.0228
72	0	CORRELATION	11.66	11.652	-0.0084
73	0	CORRELATION	11.822	11.824	0.0017

### TID vs Post - Pre Exposure Delta



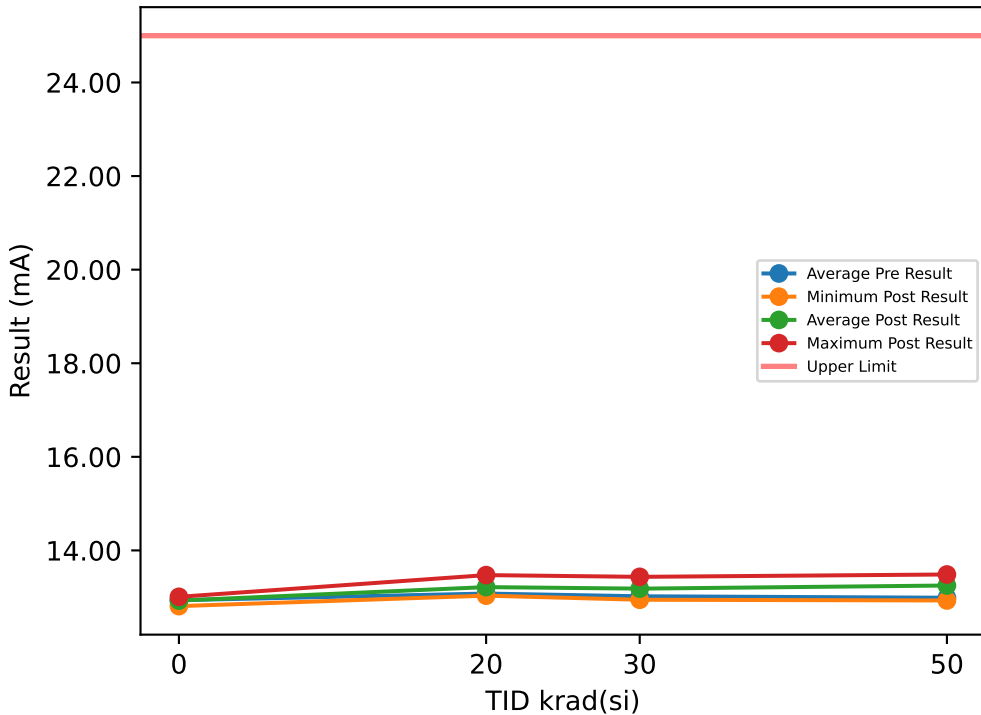
### Test Statistics (mA)

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	11.66	11.772	11.834	0.096912	11.652	11.762	11.824	0.095708	-0.0228	-0.0098333	0.0017	0.012313
20	11.748	11.919	12.096	0.11654	11.876	12.035	12.235	0.11012	0.024	0.11615	0.1823	0.046627
30	11.707	11.863	12.103	0.12199	11.781	12.003	12.248	0.14917	0.0742	0.13944	0.2176	0.048198
50	11.633	11.845	12.015	0.12528	11.794	12.076	12.275	0.16281	0.161	0.23089	0.3161	0.051835



# Device Test: 14.17 IDD|SUPPLY CURRENT/IN/14/14/0/0/5/1MHz//@IDD\_ACT\_1M\_NOLOAD

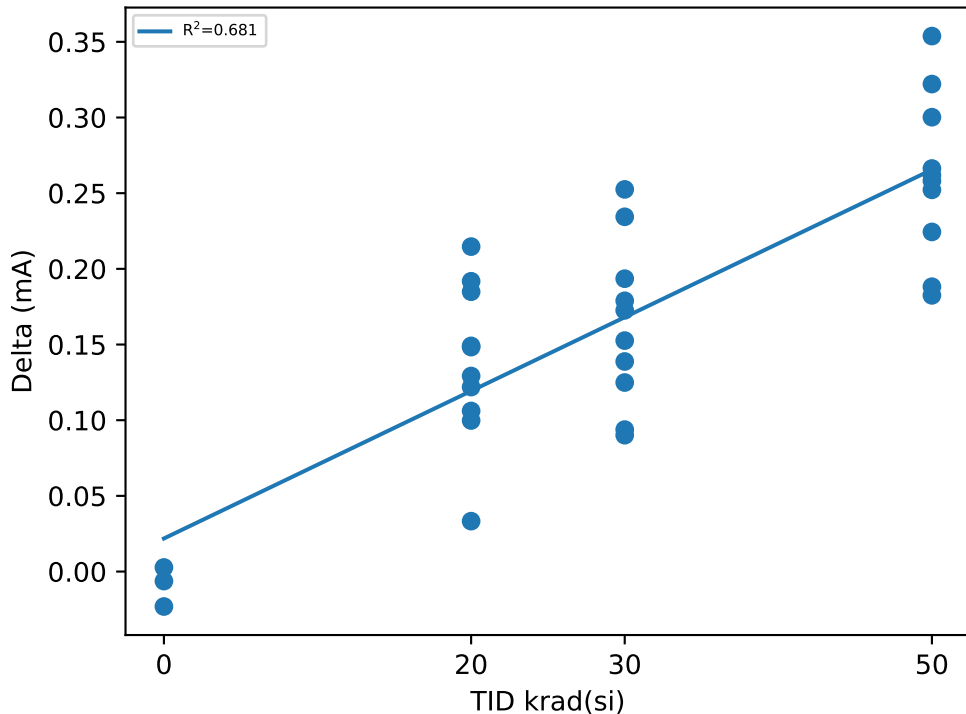
### TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	13.287	13.472	0.1849
22	20	HDR BIAS	13.066	13.166	0.0998
23	20	HDR BIAS	13.138	13.287	0.1491
24	20	HDR BIAS	12.975	13.081	0.1061
25	20	HDR BIAS	13.25	13.283	0.0333
26	20	HDR UNBIAS	13.177	13.299	0.1219
27	20	HDR UNBIAS	13.045	13.259	0.2147
28	20	HDR UNBIAS	12.885	13.033	0.1483
29	20	HDR UNBIAS	13.083	13.212	0.1292
30	20	HDR UNBIAS	12.873	13.065	0.1918
31	30	HDR BIAS	13.068	13.162	0.0938
32	30	HDR BIAS	13.108	13.261	0.1526
33	30	HDR BIAS	13.088	13.281	0.1935
34	30	HDR BIAS	12.856	12.946	0.0901
35	30	HDR BIAS	12.841	12.979	0.1388
36	30	HDR UNBIAS	13.009	13.262	0.2525
37	30	HDR UNBIAS	12.9	13.073	0.1726
38	30	HDR UNBIAS	13.139	13.374	0.2344
39	30	HDR UNBIAS	13.256	13.435	0.1789
40	30	HDR UNBIAS	12.934	13.059	0.1249
41	50	HDR BIAS	12.742	12.931	0.1882
42	50	HDR BIAS	12.829	13.053	0.2244
43	50	HDR BIAS	12.853	13.036	0.1825
44	50	HDR BIAS	13.087	13.348	0.2619
45	50	HDR BIAS	13.011	13.269	0.2581
46	50	HDR UNBIAS	13.185	13.486	0.3002
47	50	HDR UNBIAS	12.999	13.252	0.2522
48	50	HDR UNBIAS	12.939	13.261	0.3221
49	50	HDR UNBIAS	13.165	13.431	0.2663
50	50	HDR UNBIAS	13.079	13.433	0.3538
71	0	CORRELATION	13.031	13.008	-0.0231
72	0	CORRELATION	12.816	12.81	-0.0063
73	0	CORRELATION	12.962	12.965	0.0027

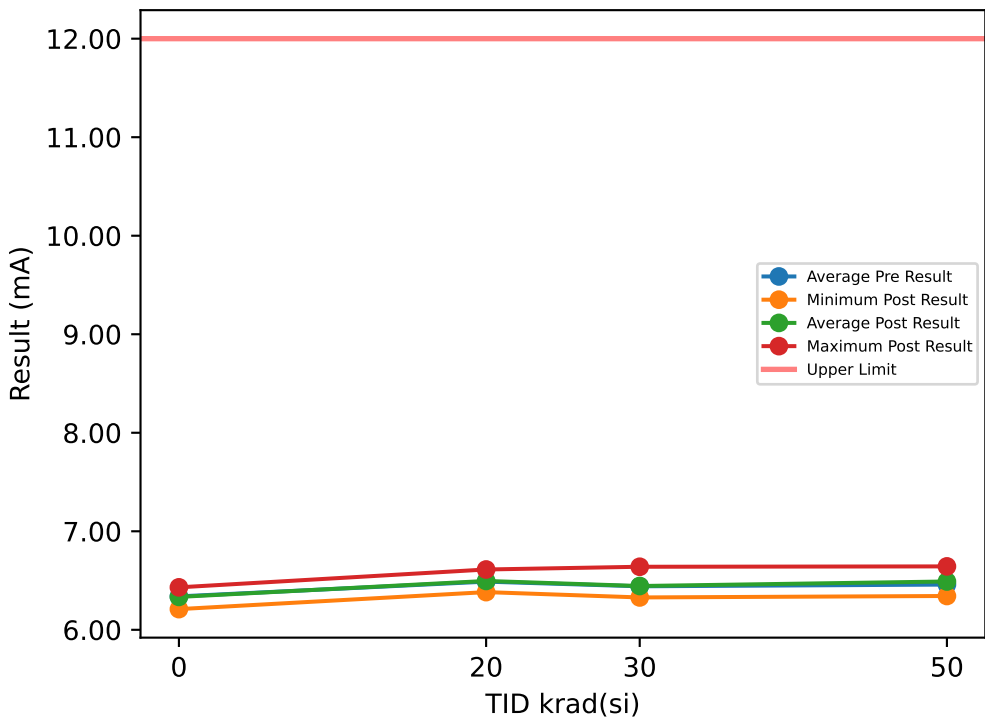
### TID vs Post - Pre Exposure Delta



### 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	12.816	12.936	13.031	0.10984	12.81	12.928	13.008	0.1043	-0.0231	-0.0089	0.0027	0.013095
20	12.873	13.078	13.287	0.14062	13.033	13.216	13.472	0.13375	0.0333	0.13791	0.2147	0.052685
30	12.841	13.02	13.256	0.1357	12.946	13.183	13.435	0.16582	0.0901	0.16321	0.2525	0.054397
50	12.742	12.989	13.185	0.14725	12.931	13.25	13.486	0.18815	0.1825	0.26097	0.3538	0.054567

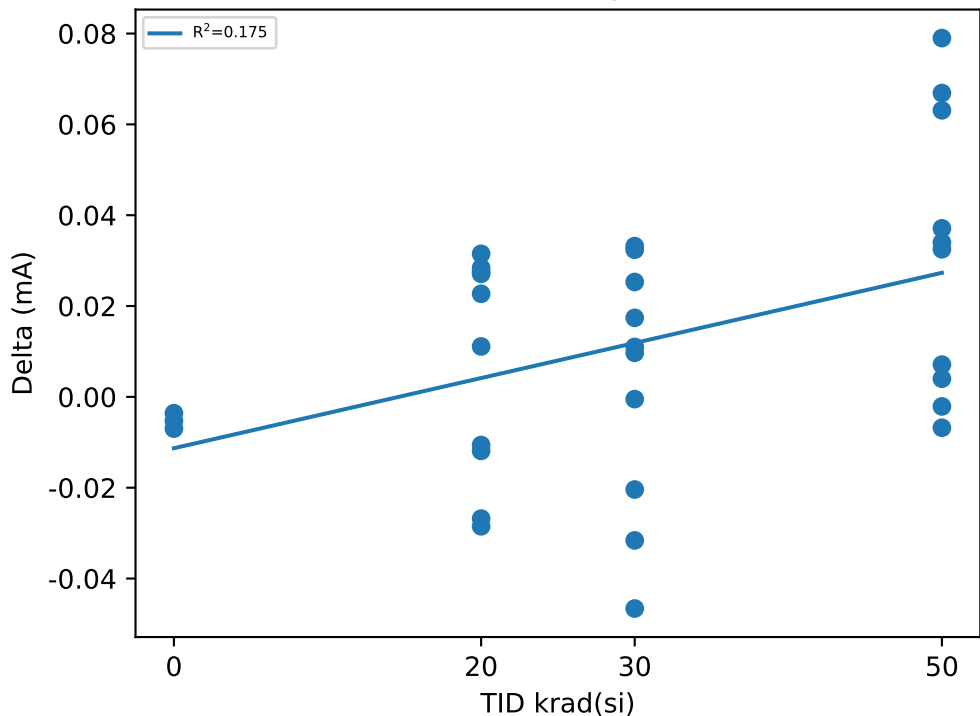
TID vs Result Stats



Test Results (Upper Limit = 12.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.5217	6.5501	0.0284
22	20	HDR BIAS	6.4458	6.4685	0.0227
23	20	HDR BIAS	6.4592	6.4863	0.0271
24	20	HDR BIAS	6.5512	6.5227	-0.0285
25	20	HDR BIAS	6.5962	6.5694	-0.0268
26	20	HDR UNBIAS	6.4811	6.4705	-0.0106
27	20	HDR UNBIAS	6.5807	6.6122	0.0315
28	20	HDR UNBIAS	6.355	6.3826	0.0276
29	20	HDR UNBIAS	6.512	6.5001	-0.0119
30	20	HDR UNBIAS	6.3855	6.3966	0.0111
31	30	HDR BIAS	6.4	6.3684	-0.0316
32	30	HDR BIAS	6.5665	6.5839	0.0174
33	30	HDR BIAS	6.3897	6.4221	0.0324
34	30	HDR BIAS	6.3318	6.3313	-0.0005
35	30	HDR BIAS	6.3852	6.3949	0.0097
36	30	HDR UNBIAS	6.4941	6.5273	0.0332
37	30	HDR UNBIAS	6.4361	6.4471	0.011
38	30	HDR UNBIAS	6.3764	6.4017	0.0253
39	30	HDR UNBIAS	6.6865	6.6399	-0.0466
40	30	HDR UNBIAS	6.3489	6.3285	-0.0204
41	50	HDR BIAS	6.3453	6.3432	-0.0021
42	50	HDR BIAS	6.4476	6.4408	-0.0068
43	50	HDR BIAS	6.3898	6.4223	0.0325
44	50	HDR BIAS	6.5389	6.6058	0.0669
45	50	HDR BIAS	6.4899	6.497	0.0071
46	50	HDR UNBIAS	6.4717	6.5348	0.0631
47	50	HDR UNBIAS	6.439	6.443	0.004
48	50	HDR UNBIAS	6.3743	6.4114	0.0371
49	50	HDR UNBIAS	6.6096	6.6436	0.034
50	50	HDR UNBIAS	6.4839	6.5629	0.079
71	0	CORRELATION	6.3677	6.3607	-0.007
72	0	CORRELATION	6.2153	6.21	-0.0053
73	0	CORRELATION	6.4346	6.431	-0.0036

TID vs Post - Pre Exposure Delta

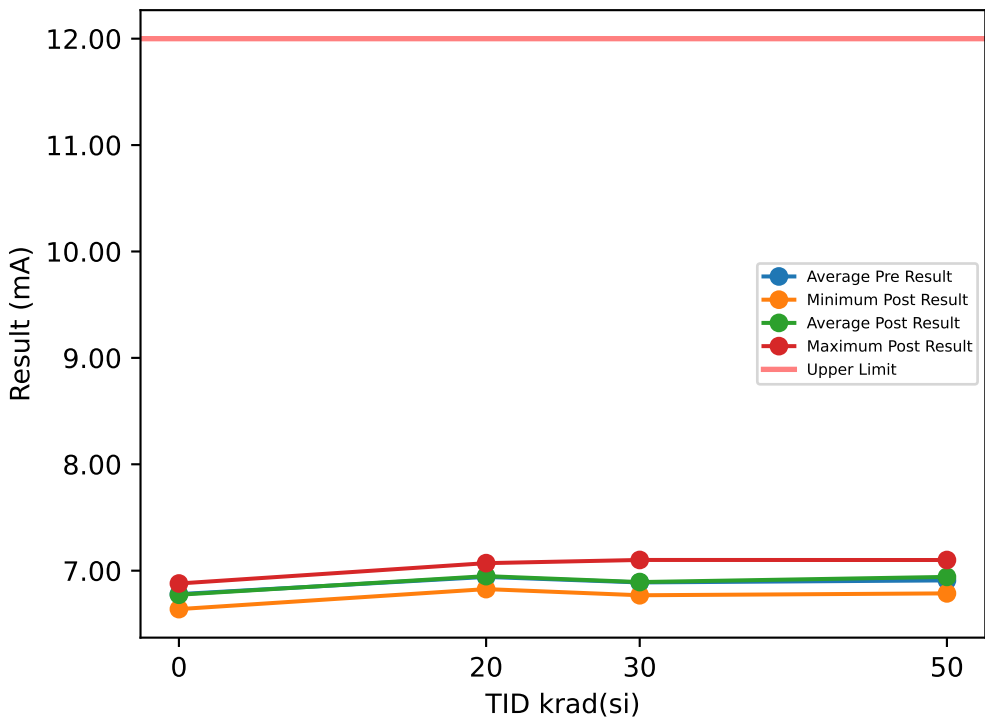


Test Statistics (mA)

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	6.2153	6.3392	6.4346	0.11239	6.21	6.3339	6.431	0.11291	-0.007	-0.0053	-0.0036	0.0017
20	6.355	6.4888	6.5962	0.079479	6.3826	6.4959	6.6122	0.072101	-0.0285	0.00706	0.0315	0.024082
30	6.3318	6.4415	6.6865	0.11099	6.3285	6.4445	6.6399	0.10611	-0.0466	0.00299	0.0332	0.027502
50	6.3453	6.459	6.6096	0.079036	6.3432	6.4905	6.6436	0.095051	-0.0068	0.03148	0.079	0.030721

Device Test: 14.19 IDD|SUPPLY CURRENT/IN/5/5/0/1000/5/100kHz//@IDD\_ACT\_100K\_LOAD\_5V

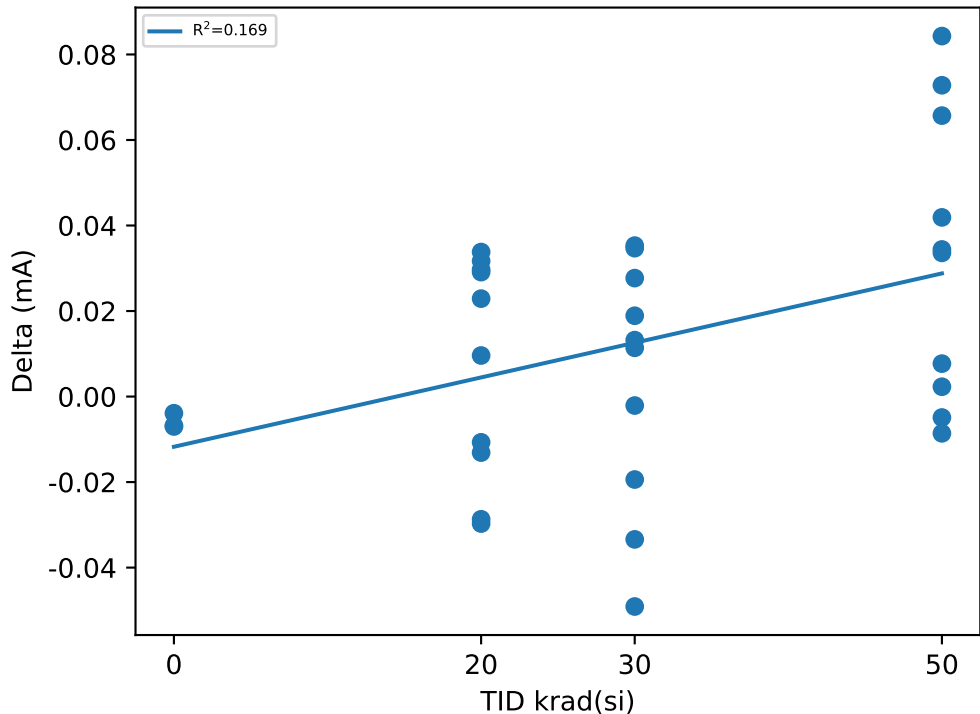
TID vs Result Stats



Test Results (Upper Limit = 12.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.9743	7.006	0.0317
22	20	HDR BIAS	6.8984	6.9213	0.0229
23	20	HDR BIAS	6.9114	6.9411	0.0297
24	20	HDR BIAS	7.0072	6.9785	-0.0287
25	20	HDR BIAS	7.0521	7.0224	-0.0297
26	20	HDR UNBIAS	6.9362	6.9255	-0.0107
27	20	HDR UNBIAS	7.037	7.0708	0.0338
28	20	HDR UNBIAS	6.7978	6.8269	0.0291
29	20	HDR UNBIAS	6.9651	6.952	-0.0131
30	20	HDR UNBIAS	6.834	6.8436	0.0096
31	30	HDR BIAS	6.8489	6.8155	-0.0334
32	30	HDR BIAS	7.0212	7.0401	0.0189
33	30	HDR BIAS	6.8372	6.8725	0.0353
34	30	HDR BIAS	6.7733	6.7712	-0.0021
35	30	HDR BIAS	6.8282	6.8414	0.0132
36	30	HDR UNBIAS	6.9435	6.9782	0.0347
37	30	HDR UNBIAS	6.8851	6.8965	0.0114
38	30	HDR UNBIAS	6.8175	6.8452	0.0277
39	30	HDR UNBIAS	7.1499	7.1008	-0.0491
40	30	HDR UNBIAS	6.7884	6.769	-0.0194
41	50	HDR BIAS	6.7916	6.7867	-0.0049
42	50	HDR BIAS	6.8924	6.8838	-0.0086
43	50	HDR BIAS	6.8355	6.8699	0.0344
44	50	HDR BIAS	6.9931	7.0659	0.0728
45	50	HDR BIAS	6.941	6.9487	0.0077
46	50	HDR UNBIAS	6.9207	6.9864	0.0657
47	50	HDR UNBIAS	6.8889	6.8912	0.0023
48	50	HDR UNBIAS	6.8196	6.8615	0.0419
49	50	HDR UNBIAS	7.0667	7.1003	0.0336
50	50	HDR UNBIAS	6.9371	7.0214	0.0843
71	0	CORRELATION	6.8102	6.8034	-0.0068
72	0	CORRELATION	6.6458	6.6388	-0.007
73	0	CORRELATION	6.8835	6.8796	-0.0039

TID vs Post - Pre Exposure Delta

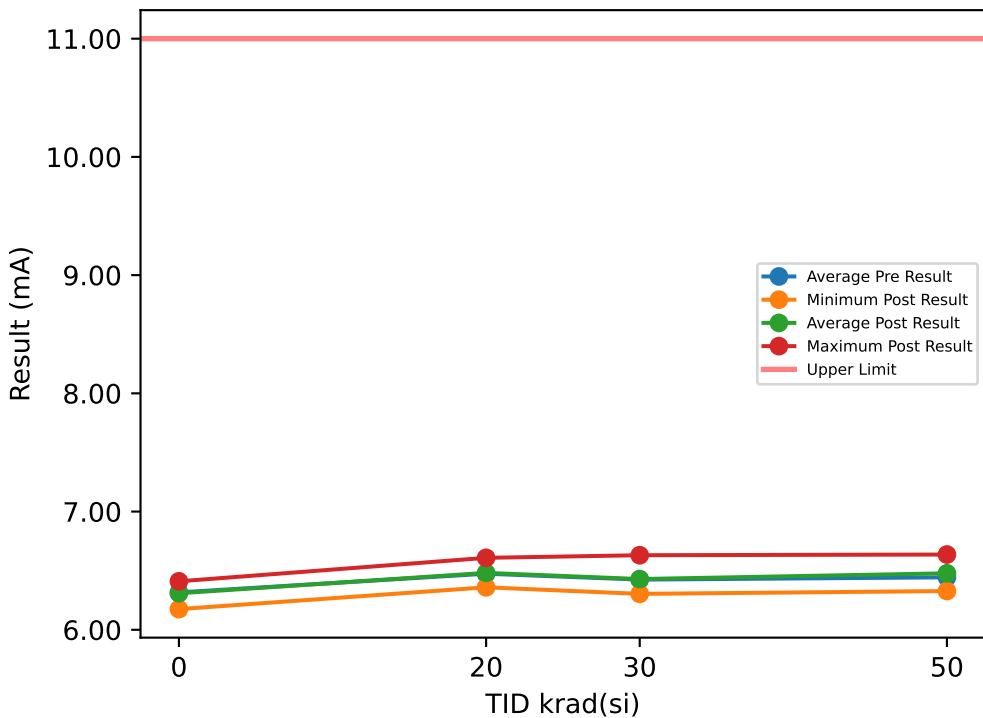


Test Statistics (mA)

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	6.6458	6.7798	6.8835	0.12172	6.6388	6.7739	6.8796	0.12307	-0.007	-0.0059	-0.0039	0.0017349
20	6.7978	6.9413	7.0521	0.083199	6.8269	6.9488	7.0708	0.075829	-0.0297	0.00746	0.0338	0.025665
30	6.7733	6.8893	7.1499	0.11792	6.769	6.893	7.1008	0.11239	-0.0491	0.00372	0.0353	0.02915
50	6.7916	6.9087	7.0667	0.082831	6.7867	6.9416	7.1003	0.10027	-0.0086	0.03292	0.0843	0.033526

Device Test: 14.2 IDD|SUPPLY CURRENT/IN/5/5/0/0/5/100kHz//@IDD\_ACT\_100K\_NOLOAD

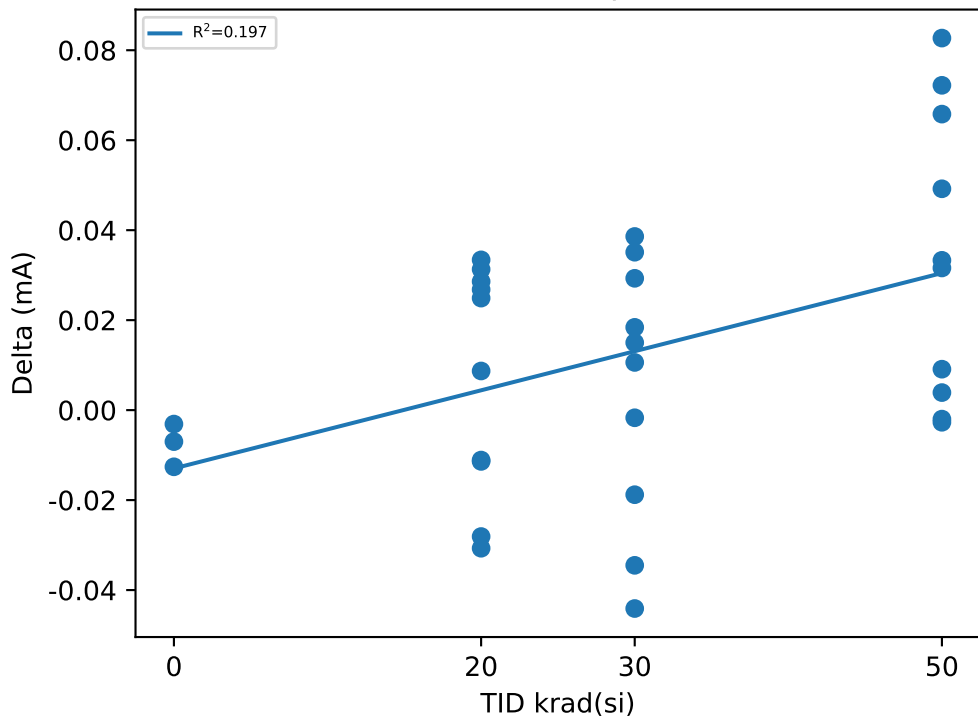
TID vs Result Stats



Test Results (Upper Limit = 11.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.4961	6.5295	0.0334
22	20	HDR BIAS	6.4337	6.4586	0.0249
23	20	HDR BIAS	6.4403	6.4689	0.0286
24	20	HDR BIAS	6.5615	6.5334	-0.0281
25	20	HDR BIAS	6.581	6.5503	-0.0307
26	20	HDR UNBIAS	6.4667	6.4553	-0.0114
27	20	HDR UNBIAS	6.5774	6.6087	0.0313
28	20	HDR UNBIAS	6.3325	6.3593	0.0268
29	20	HDR UNBIAS	6.494	6.4829	-0.0111
30	20	HDR UNBIAS	6.3588	6.3675	0.0087
31	30	HDR BIAS	6.385	6.3505	-0.0345
32	30	HDR BIAS	6.5465	6.5649	0.0184
33	30	HDR BIAS	6.3798	6.4149	0.0351
34	30	HDR BIAS	6.3263	6.3246	-0.0017
35	30	HDR BIAS	6.3594	6.3744	0.015
36	30	HDR UNBIAS	6.4748	6.5134	0.0386
37	30	HDR UNBIAS	6.415	6.4256	0.0106
38	30	HDR UNBIAS	6.3601	6.3894	0.0293
39	30	HDR UNBIAS	6.6747	6.6306	-0.0441
40	30	HDR UNBIAS	6.3225	6.3037	-0.0188
41	50	HDR BIAS	6.3304	6.3277	-0.0027
42	50	HDR BIAS	6.4171	6.4151	-0.002
43	50	HDR BIAS	6.3781	6.4097	0.0316
44	50	HDR BIAS	6.5251	6.5973	0.0722
45	50	HDR BIAS	6.4846	6.4937	0.0091
46	50	HDR UNBIAS	6.4506	6.5164	0.0658
47	50	HDR UNBIAS	6.4252	6.4291	0.0039
48	50	HDR UNBIAS	6.3481	6.3973	0.0492
49	50	HDR UNBIAS	6.6032	6.6365	0.0333
50	50	HDR UNBIAS	6.4732	6.5559	0.0827
71	0	CORRELATION	6.3539	6.3413	-0.0126
72	0	CORRELATION	6.1818	6.1748	-0.007
73	0	CORRELATION	6.413	6.4099	-0.0031

TID vs Post - Pre Exposure Delta

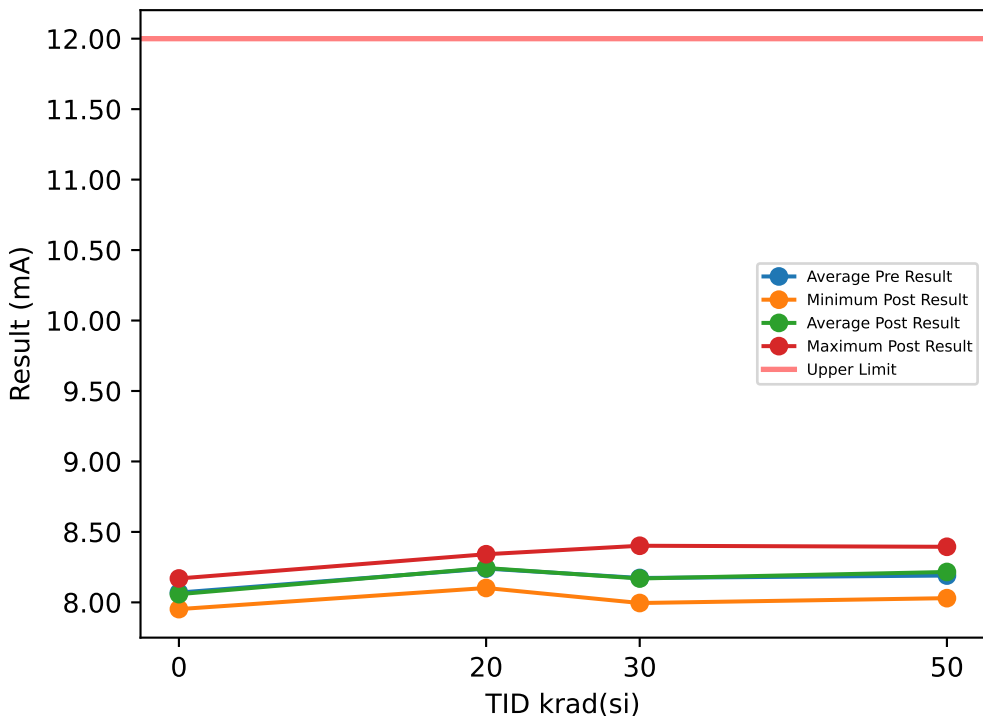


Test Statistics (mA)

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	6.1818	6.3162	6.413	0.12011	6.1748	6.3087	6.4099	0.1209	-0.0126	-0.0075667	-0.0031	0.0047753
20	6.3325	6.4742	6.581	0.086147	6.3593	6.4814	6.6087	0.078324	-0.0307	0.00724	0.0334	0.02536
30	6.3225	6.4244	6.6747	0.1116	6.3037	6.4292	6.6306	0.10737	-0.0441	0.00479	0.0386	0.028903
50	6.3304	6.4436	6.6032	0.08299	6.3277	6.4779	6.6365	0.098466	-0.0027	0.03431	0.0827	0.032054

# Device Test: 14.20 IDD|SUPPLY CURRENT/IN/12/12/0/1000/5/100kHz//@IDD\_ACT\_100K\_LOAD\_12V

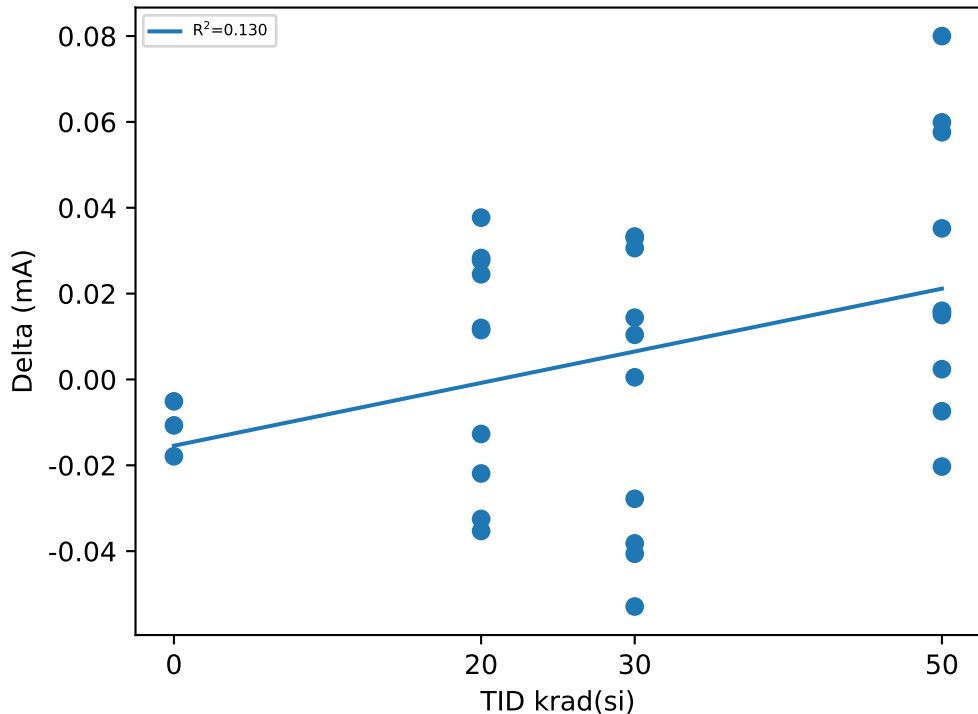
### TID vs Result Stats



### Test Results (Upper Limit = 12.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	8.3159	8.3404	0.0245
22	20	HDR BIAS	8.1609	8.1724	0.0115
23	20	HDR BIAS	8.2574	8.2951	0.0377
24	20	HDR BIAS	8.2543	8.2218	-0.0325
25	20	HDR BIAS	8.3635	8.3282	-0.0353
26	20	HDR UNBIAS	8.2703	8.2576	-0.0127
27	20	HDR UNBIAS	8.3133	8.3416	0.0283
28	20	HDR UNBIAS	8.0745	8.1022	0.0277
29	20	HDR UNBIAS	8.2379	8.216	-0.0219
30	20	HDR UNBIAS	8.1507	8.1627	0.012
31	30	HDR BIAS	8.1357	8.0975	-0.0382
32	30	HDR BIAS	8.3217	8.3361	0.0144
33	30	HDR BIAS	8.1127	8.1457	0.033
34	30	HDR BIAS	8.0233	7.9955	-0.0278
35	30	HDR BIAS	8.0998	8.1102	0.0104
36	30	HDR UNBIAS	8.235	8.2683	0.0333
37	30	HDR UNBIAS	8.1907	8.1912	0.0005
38	30	HDR UNBIAS	8.0876	8.1182	0.0306
39	30	HDR UNBIAS	8.4547	8.4018	-0.0529
40	30	HDR UNBIAS	8.0703	8.0297	-0.0406
41	50	HDR BIAS	8.0373	8.0299	-0.0074
42	50	HDR BIAS	8.1805	8.1602	-0.0203
43	50	HDR BIAS	8.0941	8.1091	0.015
44	50	HDR BIAS	8.2951	8.3527	0.0576
45	50	HDR BIAS	8.2186	8.2346	0.016
46	50	HDR UNBIAS	8.1948	8.2547	0.0599
47	50	HDR UNBIAS	8.1682	8.1706	0.0024
48	50	HDR UNBIAS	8.1096	8.1448	0.0352
49	50	HDR UNBIAS	8.3788	8.3945	0.0157
50	50	HDR UNBIAS	8.2265	8.3065	0.08
71	0	CORRELATION	8.071	8.0531	-0.0179
72	0	CORRELATION	7.9629	7.9522	-0.0107
73	0	CORRELATION	8.1748	8.1697	-0.0051

### TID vs Post - Pre Exposure Delta

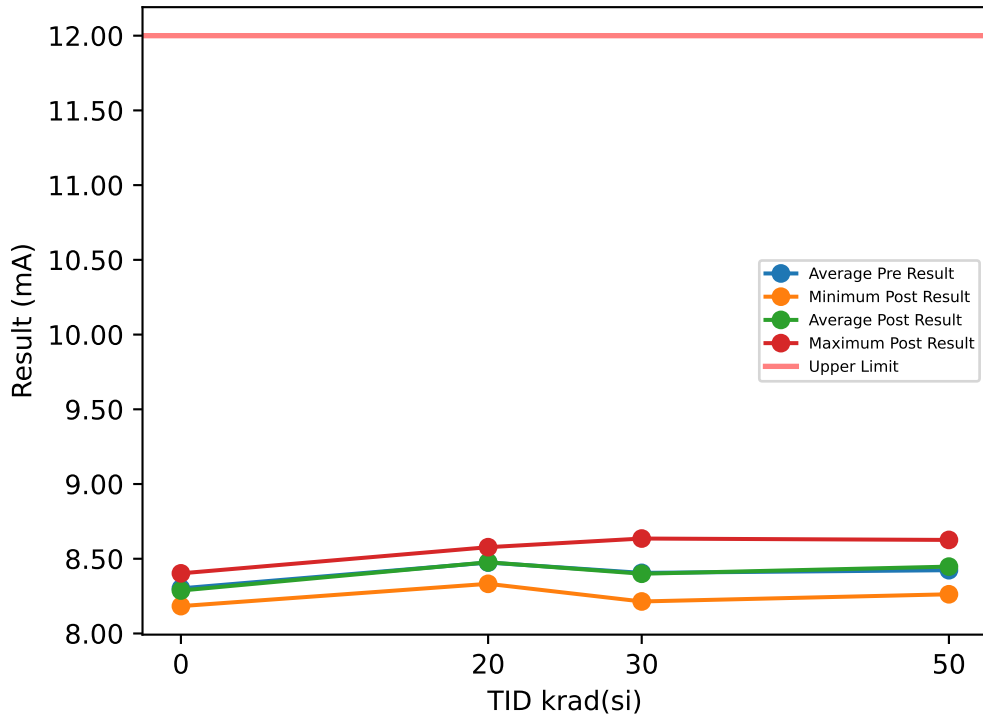


### Test Statistics (mA)

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	7.9629	8.0696	8.1748	0.10596	7.9522	8.0583	8.1697	0.10884	-0.0179	-0.011233	-0.0051	0.0064166
20	8.0745	8.2399	8.3635	0.087836	8.1022	8.2438	8.3416	0.082882	-0.0353	0.00393	0.0377	0.027192
30	8.0233	8.1731	8.4547	0.13177	7.9955	8.1694	8.4018	0.13067	-0.0529	-0.00373	0.0333	0.033316
50	8.0373	8.1904	8.3788	0.099111	8.0299	8.2158	8.3945	0.11396	-0.0203	0.02541	0.08	0.032125

# Device Test: 14.21 IDD|SUPPLY CURRENT/IN/14/14/0/1000/5/100kHz//@IDD\_ACT\_100K\_LOAD\_14V

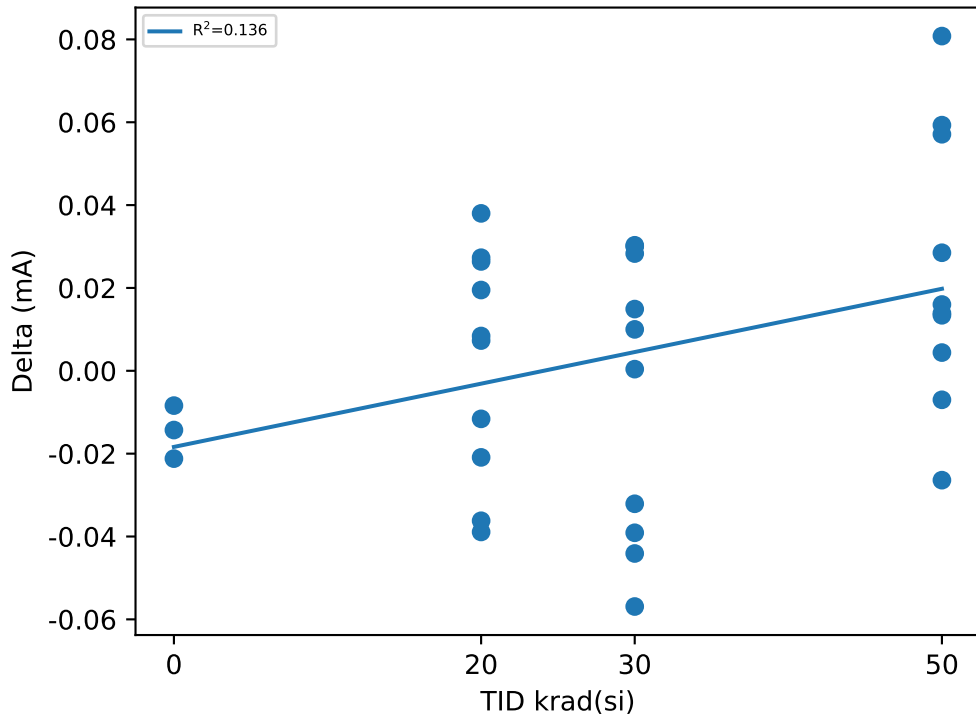
### TID vs Result Stats



### Test Results (Upper Limit = 12.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	8.5579	8.5774	0.0195
22	20	HDR BIAS	8.3912	8.3996	0.0084
23	20	HDR BIAS	8.4945	8.5325	0.038
24	20	HDR BIAS	8.4809	8.4447	-0.0362
25	20	HDR BIAS	8.598	8.5591	-0.0389
26	20	HDR UNBIAS	8.5061	8.4945	-0.0116
27	20	HDR UNBIAS	8.5469	8.5742	0.0273
28	20	HDR UNBIAS	8.3059	8.3323	0.0264
29	20	HDR UNBIAS	8.4729	8.452	-0.0209
30	20	HDR UNBIAS	8.3912	8.3985	0.0073
31	30	HDR BIAS	8.3671	8.328	-0.0391
32	30	HDR BIAS	8.5569	8.5718	0.0149
33	30	HDR BIAS	8.3419	8.3719	0.03
34	30	HDR BIAS	8.2463	8.2142	-0.0321
35	30	HDR BIAS	8.3337	8.3437	0.01
36	30	HDR UNBIAS	8.473	8.5013	0.0283
37	30	HDR UNBIAS	8.4254	8.4258	0.0004
38	30	HDR UNBIAS	8.3178	8.3481	0.0303
39	30	HDR UNBIAS	8.6922	8.6353	-0.0569
40	30	HDR UNBIAS	8.3011	8.257	-0.0441
41	50	HDR BIAS	8.2693	8.2623	-0.007
42	50	HDR BIAS	8.4191	8.3927	-0.0264
43	50	HDR BIAS	8.3252	8.3386	0.0134
44	50	HDR BIAS	8.5272	8.5843	0.0571
45	50	HDR BIAS	8.4483	8.4622	0.0139
46	50	HDR UNBIAS	8.4296	8.4889	0.0593
47	50	HDR UNBIAS	8.3996	8.404	0.0044
48	50	HDR UNBIAS	8.3474	8.3759	0.0285
49	50	HDR UNBIAS	8.61	8.626	0.016
50	50	HDR UNBIAS	8.458	8.5388	0.0808
71	0	CORRELATION	8.2978	8.2766	-0.0212
72	0	CORRELATION	8.1974	8.1831	-0.0143
73	0	CORRELATION	8.4107	8.4023	-0.0084

### TID vs Post - Pre Exposure Delta

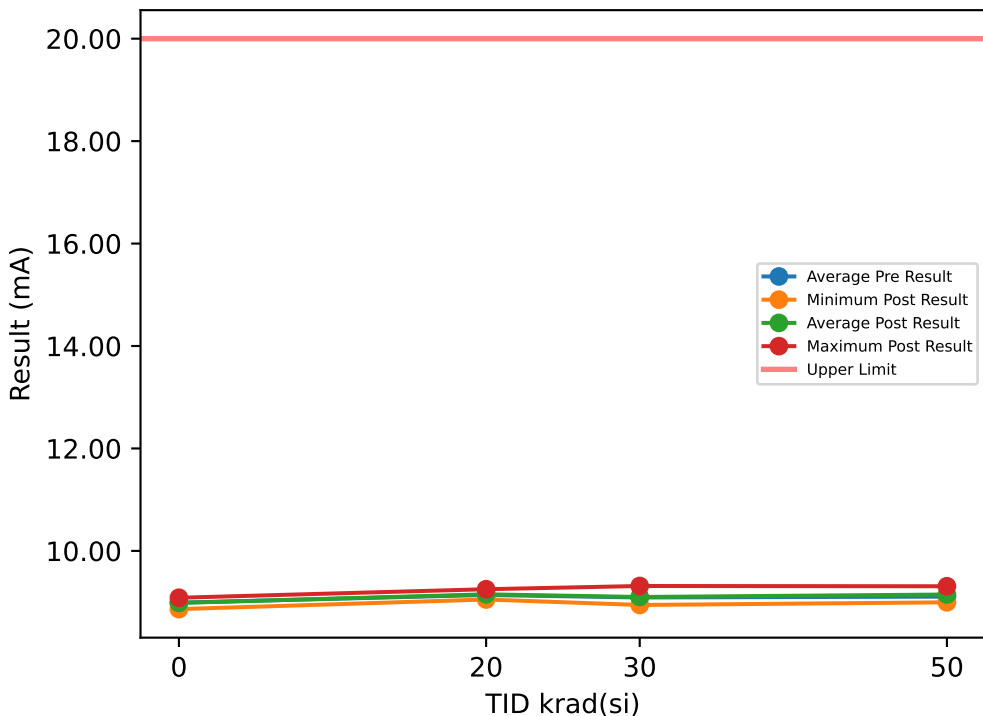


### Test Statistics (mA)

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	8.1974	8.302	8.4107	0.10671	8.1831	8.2873	8.4023	0.10999	-0.0212	-0.014633	-0.0084	0.0064065
20	8.3059	8.4745	8.598	0.088942	8.3323	8.4765	8.5774	0.084598	-0.0389	0.00193	0.038	0.027382
30	8.2463	8.4055	8.6922	0.13527	8.2142	8.3997	8.6353	0.13442	-0.0569	-0.00583	0.0303	0.0339
50	8.2693	8.4234	8.61	0.098432	8.2623	8.4474	8.626	0.11403	-0.0264	0.024	0.0808	0.032917



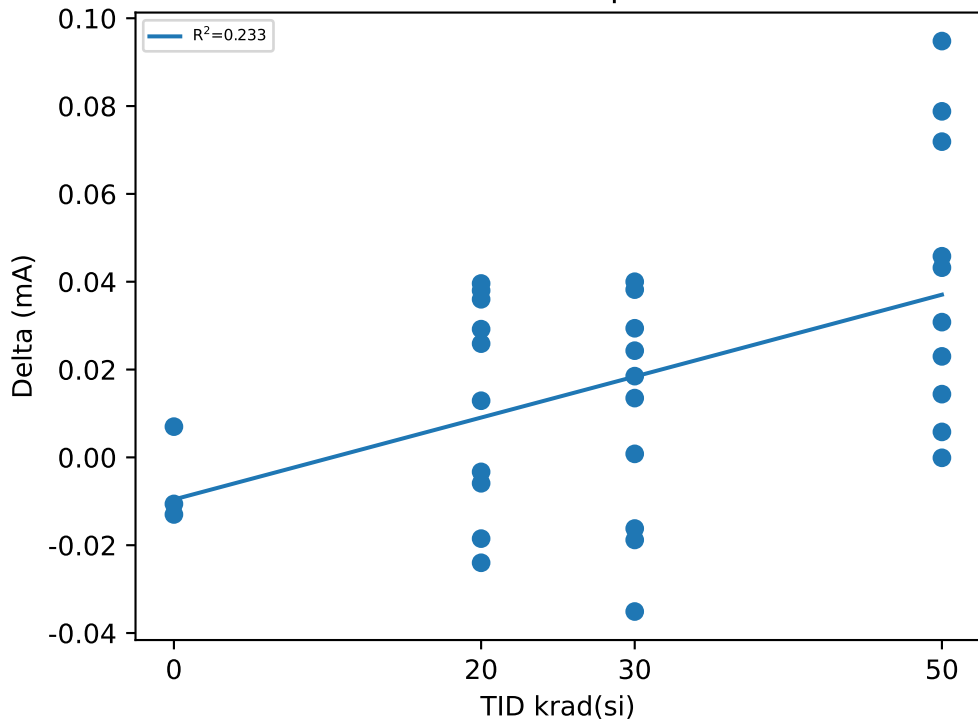
TID vs Result Stats



Test Results (Upper Limit = 20.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	9.2008	9.2368	0.036
22	20	HDR BIAS	9.0823	9.1082	0.0259
23	20	HDR BIAS	9.104	9.142	0.038
24	20	HDR BIAS	9.1489	9.1304	-0.0185
25	20	HDR BIAS	9.2757	9.2517	-0.024
26	20	HDR UNBIAS	9.1345	9.1312	-0.0033
27	20	HDR UNBIAS	9.204	9.2436	0.0396
28	20	HDR UNBIAS	9.0221	9.0513	0.0292
29	20	HDR UNBIAS	9.1706	9.1647	-0.0059
30	20	HDR UNBIAS	9.0517	9.0646	0.0129
31	30	HDR BIAS	9.0296	9.0108	-0.0188
32	30	HDR BIAS	9.2334	9.2577	0.0243
33	30	HDR BIAS	9.0275	9.0657	0.0382
34	30	HDR BIAS	8.9436	8.9444	0.0008
35	30	HDR BIAS	9.0419	9.0554	0.0135
36	30	HDR UNBIAS	9.1543	9.1943	0.04
37	30	HDR UNBIAS	9.098	9.1165	0.0185
38	30	HDR UNBIAS	9.02	9.0494	0.0294
39	30	HDR UNBIAS	9.3501	9.315	-0.0351
40	30	HDR UNBIAS	9.0084	8.9922	-0.0162
41	50	HDR BIAS	8.9902	8.996	0.0058
42	50	HDR BIAS	9.1022	9.1021	-0.0001
43	50	HDR BIAS	9.025	9.0682	0.0432
44	50	HDR BIAS	9.1899	9.2687	0.0788
45	50	HDR BIAS	9.117	9.14	0.023
46	50	HDR UNBIAS	9.1354	9.2073	0.0719
47	50	HDR UNBIAS	9.0844	9.0988	0.0144
48	50	HDR UNBIAS	9.0223	9.0531	0.0308
49	50	HDR UNBIAS	9.2639	9.3097	0.0458
50	50	HDR UNBIAS	9.1454	9.2402	0.0948
71	0	CORRELATION	8.9964	9.0034	0.007
72	0	CORRELATION	8.8741	8.8635	-0.0106
73	0	CORRELATION	9.0982	9.0852	-0.013

TID vs Post - Pre Exposure Delta



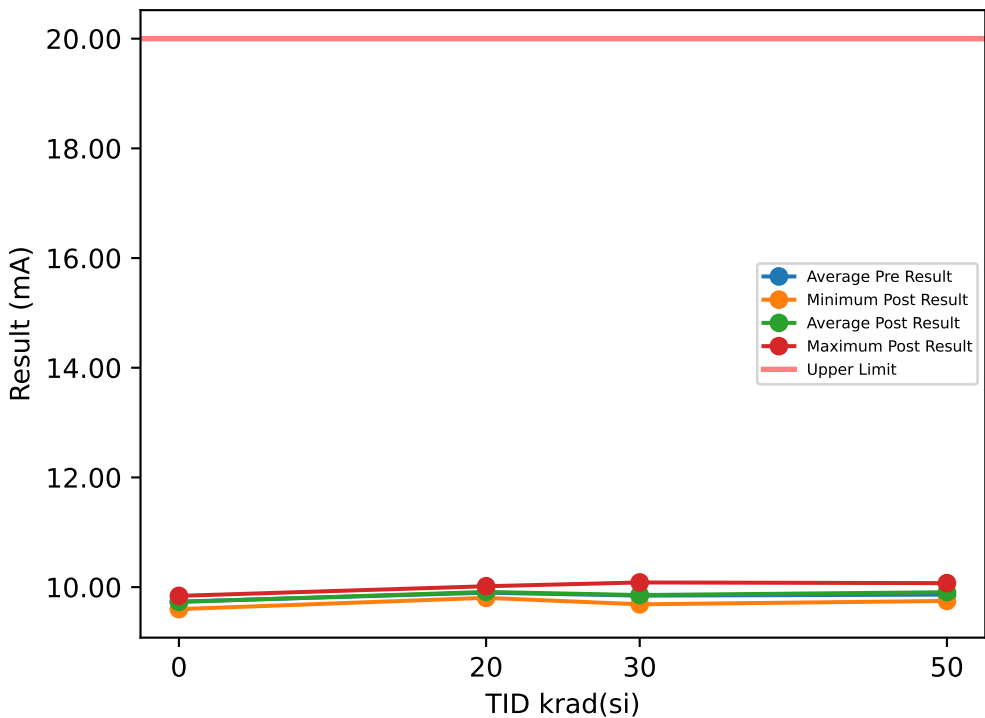
Test Statistics (mA)

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	8.8741	8.9896	9.0982	0.11221	8.8635	8.984	9.0852	0.11211	-0.013	-0.0055333	0.007	0.01092
20	9.0221	9.1395	9.2757	0.077153	9.0513	9.1524	9.2517	0.071785	-0.024	0.01299	0.0396	0.024209
30	8.9436	9.0907	9.3501	0.1226	8.9444	9.1001	9.315	0.12008	-0.0351	0.00946	0.04	0.025803
50	8.9902	9.1076	9.2639	0.082961	8.996	9.1484	9.3097	0.10317	-0.0001	0.04084	0.0948	0.032266



Device Test: 14.23 IDD|SUPPLY CURRENT/IN/5/5/0/1000/5/500kHz//@IDD\_ACT\_500K\_LOAD\_5V

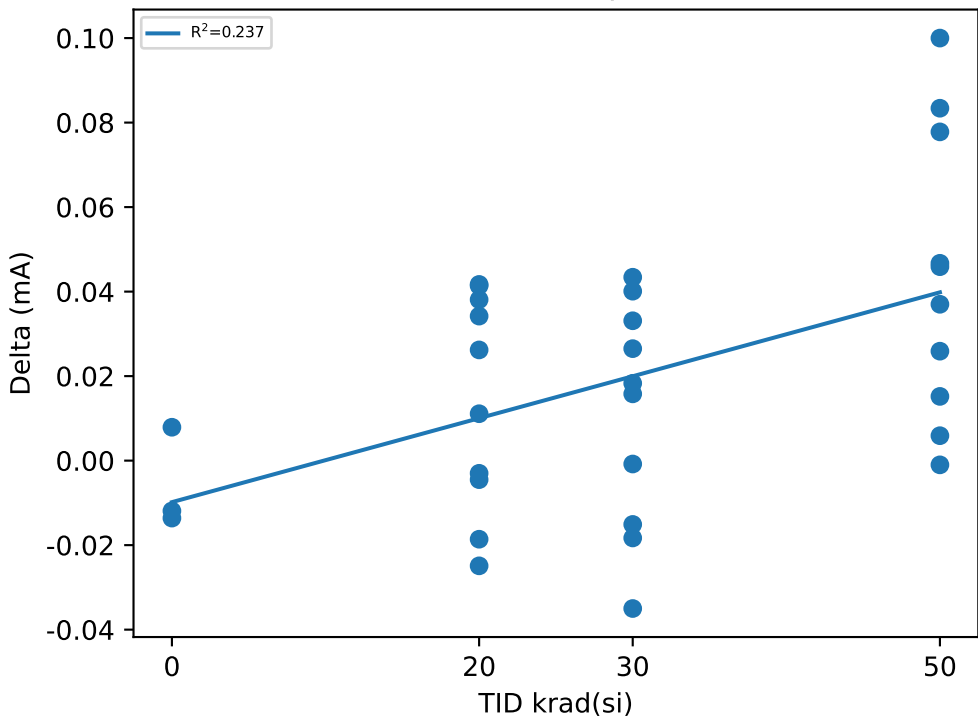
TID vs Result Stats



Test Results (Upper Limit = 20.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	9.9637	10.002	0.0381
22	20	HDR BIAS	9.8396	9.8658	0.0262
23	20	HDR BIAS	9.8625	9.9039	0.0414
24	20	HDR BIAS	9.9057	9.8871	-0.0186
25	20	HDR BIAS	10.041	10.016	-0.0249
26	20	HDR UNBIAS	9.896	9.893	-0.003
27	20	HDR UNBIAS	9.9623	10.004	0.0417
28	20	HDR UNBIAS	9.7706	9.8048	0.0342
29	20	HDR UNBIAS	9.9325	9.928	-0.0045
30	20	HDR UNBIAS	9.8094	9.8205	0.0111
31	30	HDR BIAS	9.7821	9.7638	-0.0183
32	30	HDR BIAS	9.997	10.024	0.0265
33	30	HDR BIAS	9.7808	9.8209	0.0401
34	30	HDR BIAS	9.6872	9.6864	-0.0008
35	30	HDR BIAS	9.7936	9.8094	0.0158
36	30	HDR UNBIAS	9.9117	9.9551	0.0434
37	30	HDR UNBIAS	9.854	9.8723	0.0183
38	30	HDR UNBIAS	9.767	9.8001	0.0331
39	30	HDR UNBIAS	10.12	10.085	-0.035
40	30	HDR UNBIAS	9.7547	9.7396	-0.0151
41	50	HDR BIAS	9.7424	9.7483	0.0059
42	50	HDR BIAS	9.8535	9.8525	-0.001
43	50	HDR BIAS	9.7759	9.8218	0.0459
44	50	HDR BIAS	9.9513	10.035	0.0834
45	50	HDR BIAS	9.8712	9.8971	0.0259
46	50	HDR UNBIAS	9.8927	9.9705	0.0778
47	50	HDR UNBIAS	9.8411	9.8563	0.0152
48	50	HDR UNBIAS	9.7722	9.8092	0.037
49	50	HDR UNBIAS	10.026	10.072	0.0467
50	50	HDR UNBIAS	9.9081	10.008	0.1
71	0	CORRELATION	9.7422	9.7501	0.0079
72	0	CORRELATION	9.6109	9.599	-0.0119
73	0	CORRELATION	9.8538	9.8402	-0.0136

TID vs Post - Pre Exposure Delta

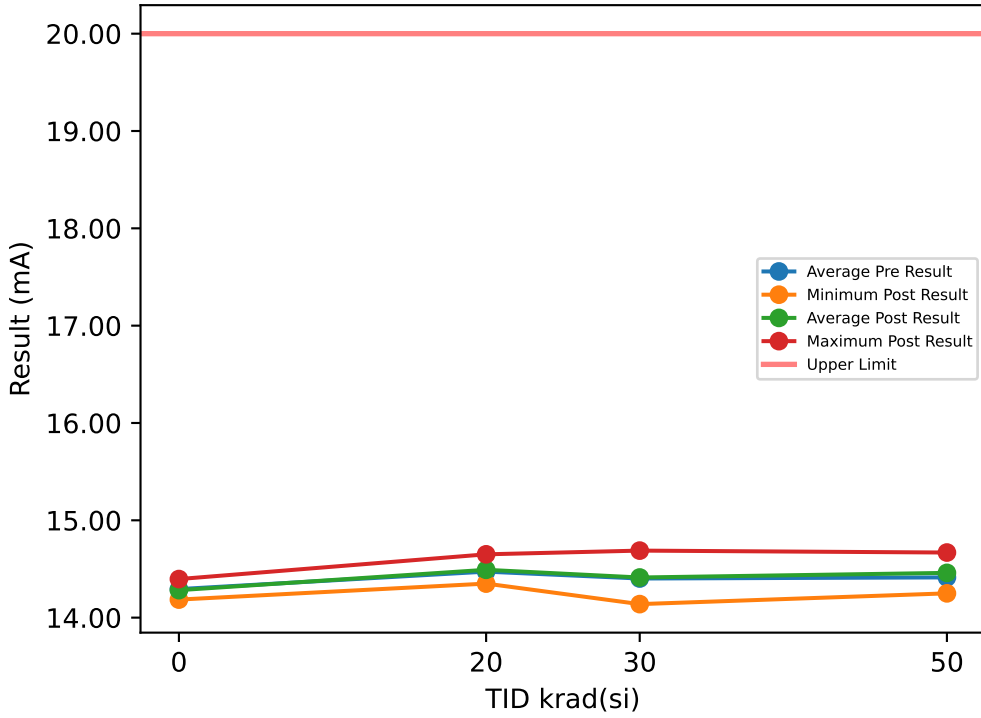


Test Statistics (mA)

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	9.6109	9.7356	9.8538	0.12158	9.599	9.7298	9.8402	0.12188	-0.0136	-0.0058667	0.0079	0.011953
20	9.7706	9.8983	10.041	0.080881	9.8048	9.9125	10.016	0.075013	-0.0249	0.01417	0.0417	0.025541
30	9.6872	9.8448	10.12	0.1305	9.6864	9.8556	10.085	0.12826	-0.035	0.0108	0.0434	0.026866
50	9.7424	9.8634	10.026	0.087047	9.7483	9.9071	10.072	0.1083	-0.001	0.04368	0.1	0.034194

# Device Test: 14.24 IDD|SUPPLY CURRENT|IN/12/12/0/1000/5/500kHz//@IDD\_ACT\_500K\_LOAD\_12V

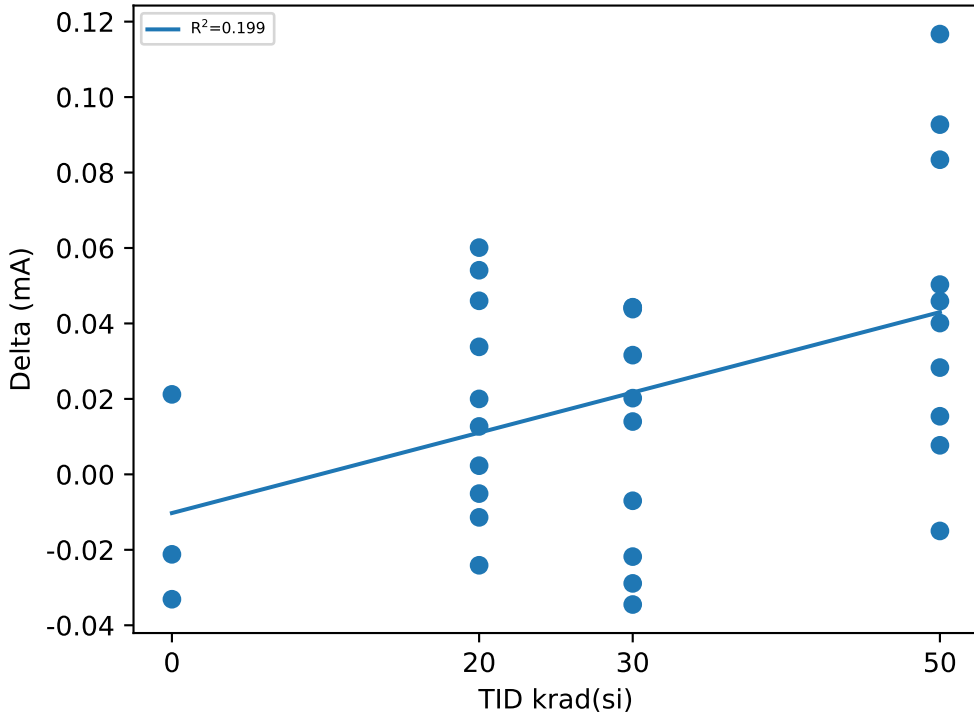
## TID vs Result Stats



## Test Results (Upper Limit = 20.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	14.617	14.65	0.0338
22	20	HDR BIAS	14.36	14.38	0.02
23	20	HDR BIAS	14.477	14.537	0.0601
24	20	HDR BIAS	14.361	14.35	-0.0114
25	20	HDR BIAS	14.673	14.649	-0.0241
26	20	HDR UNBIAS	14.511	14.513	0.0023
27	20	HDR UNBIAS	14.477	14.531	0.0541
28	20	HDR UNBIAS	14.341	14.387	0.046
29	20	HDR UNBIAS	14.489	14.484	-0.0051
30	20	HDR UNBIAS	14.421	14.434	0.0127
31	30	HDR BIAS	14.336	14.329	-0.007
32	30	HDR BIAS	14.591	14.622	0.0316
33	30	HDR BIAS	14.321	14.366	0.0442
34	30	HDR BIAS	14.161	14.139	-0.0218
35	30	HDR BIAS	14.34	14.354	0.014
36	30	HDR UNBIAS	14.492	14.536	0.0443
37	30	HDR UNBIAS	14.44	14.46	0.0202
38	30	HDR UNBIAS	14.297	14.341	0.0438
39	30	HDR UNBIAS	14.723	14.689	-0.0345
40	30	HDR UNBIAS	14.317	14.288	-0.0289
41	50	HDR BIAS	14.242	14.249	0.0077
42	50	HDR BIAS	14.414	14.399	-0.015
43	50	HDR BIAS	14.29	14.33	0.0401
44	50	HDR BIAS	14.525	14.608	0.0834
45	50	HDR BIAS	14.392	14.443	0.0503
46	50	HDR UNBIAS	14.46	14.553	0.0927
47	50	HDR UNBIAS	14.382	14.41	0.0283
48	50	HDR UNBIAS	14.32	14.335	0.0154
49	50	HDR UNBIAS	14.623	14.669	0.0459
50	50	HDR UNBIAS	14.486	14.603	0.1167
71	0	CORRELATION	14.244	14.265	0.0212
72	0	CORRELATION	14.207	14.185	-0.0212
73	0	CORRELATION	14.429	14.396	-0.0331

## TID vs Post - Pre Exposure Delta

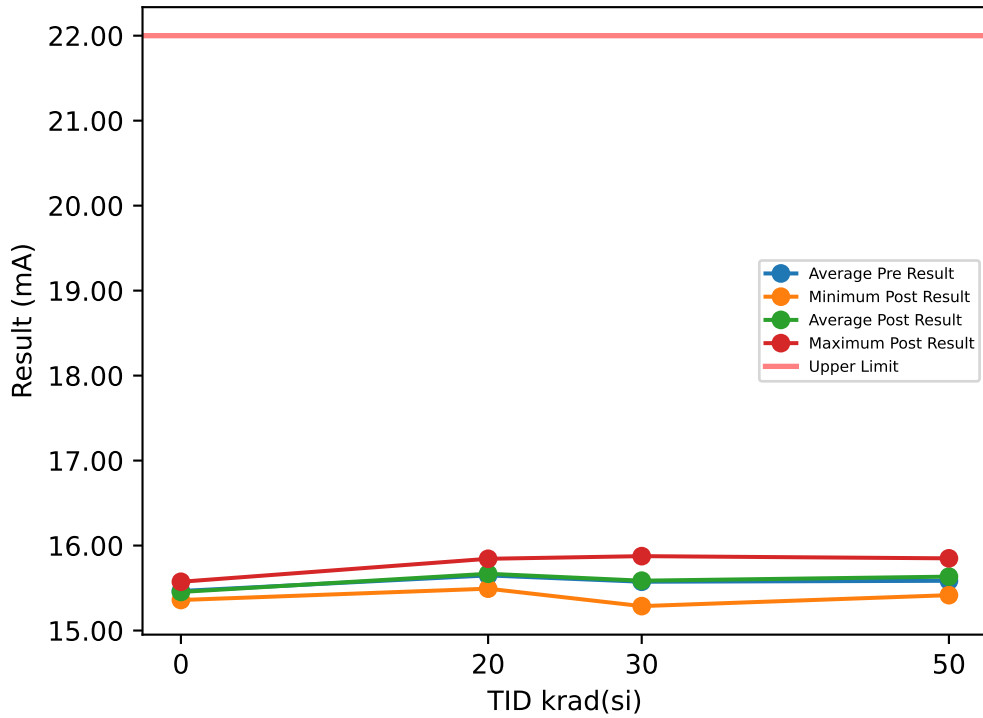


## Test Statistics (mA)

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	14.207	14.293	14.429	0.11931	14.185	14.282	14.396	0.10648	-0.0331	-0.011033	0.0212	0.028542
20	14.341	14.473	14.673	0.10924	14.35	14.491	14.65	0.10577	-0.0241	0.01884	0.0601	0.028966
30	14.161	14.402	14.723	0.16311	14.139	14.412	14.689	0.16531	-0.0345	0.01059	0.0443	0.031385
50	14.242	14.413	14.623	0.11495	14.249	14.46	14.669	0.14071	-0.015	0.04655	0.1167	0.040914

# Device Test: 14.25 IDD|SUPPLY CURRENT/IN/14/14/0/1000/5/500kHz//@IDD\_ACT\_500K\_LOAD\_14V

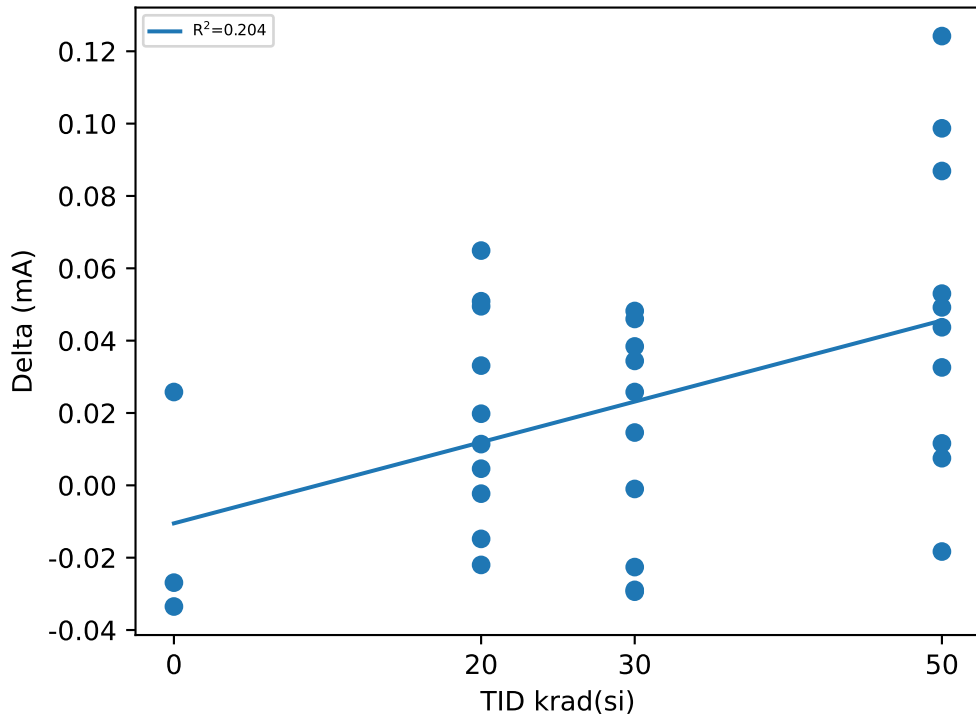
### TID vs Result Stats



### Test Results (Upper Limit = 22.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	15.811	15.844	0.0331
22	20	HDR BIAS	15.527	15.546	0.0198
23	20	HDR BIAS	15.654	15.719	0.0649
24	20	HDR BIAS	15.508	15.493	-0.0148
25	20	HDR BIAS	15.861	15.838	-0.022
26	20	HDR UNBIAS	15.689	15.694	0.0046
27	20	HDR UNBIAS	15.641	15.692	0.0509
28	20	HDR UNBIAS	15.519	15.568	0.0495
29	20	HDR UNBIAS	15.666	15.664	-0.0023
30	20	HDR UNBIAS	15.611	15.623	0.0114
31	30	HDR BIAS	15.504	15.503	-0.001
32	30	HDR BIAS	15.771	15.806	0.0344
33	30	HDR BIAS	15.491	15.529	0.0384
34	30	HDR BIAS	15.31	15.287	-0.0226
35	30	HDR BIAS	15.513	15.528	0.0146
36	30	HDR UNBIAS	15.678	15.724	0.046
37	30	HDR UNBIAS	15.615	15.641	0.0258
38	30	HDR UNBIAS	15.466	15.514	0.0482
39	30	HDR UNBIAS	15.904	15.875	-0.0289
40	30	HDR UNBIAS	15.49	15.46	-0.0294
41	50	HDR BIAS	15.409	15.416	0.0075
42	50	HDR BIAS	15.594	15.575	-0.0183
43	50	HDR BIAS	15.456	15.499	0.0437
44	50	HDR BIAS	15.697	15.784	0.0869
45	50	HDR BIAS	15.554	15.603	0.0492
46	50	HDR UNBIAS	15.64	15.739	0.0987
47	50	HDR UNBIAS	15.55	15.583	0.0326
48	50	HDR UNBIAS	15.494	15.506	0.0116
49	50	HDR UNBIAS	15.797	15.85	0.053
50	50	HDR UNBIAS	15.664	15.788	0.1242
71	0	CORRELATION	15.403	15.429	0.0258
72	0	CORRELATION	15.386	15.359	-0.0269
73	0	CORRELATION	15.607	15.574	-0.0335

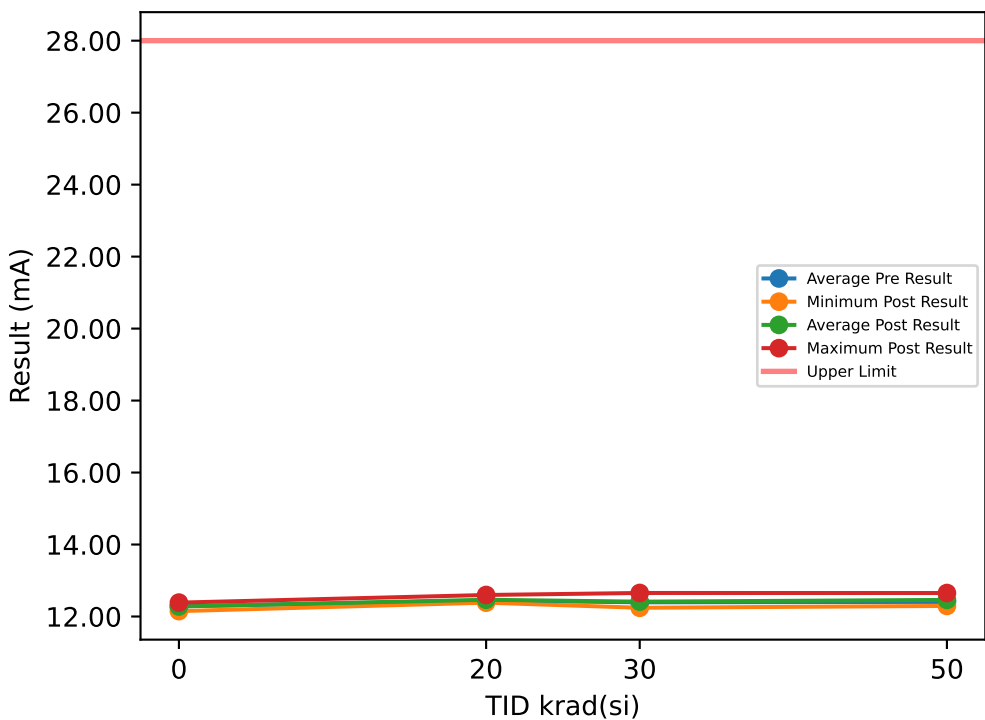
### TID vs Post - Pre Exposure Delta



### 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	15.386	15.466	15.607	0.12316	15.359	15.454	15.574	0.10956	-0.0335	-0.011533	0.0258	0.0325
20	15.508	15.649	15.861	0.11851	15.493	15.668	15.844	0.1162	-0.022	0.01951	0.0649	0.029427
30	15.31	15.574	15.904	0.17143	15.287	15.587	15.875	0.17563	-0.0294	0.01255	0.0482	0.030934
50	15.409	15.585	15.797	0.11778	15.416	15.634	15.85	0.14629	-0.0183	0.04891	0.1242	0.044127

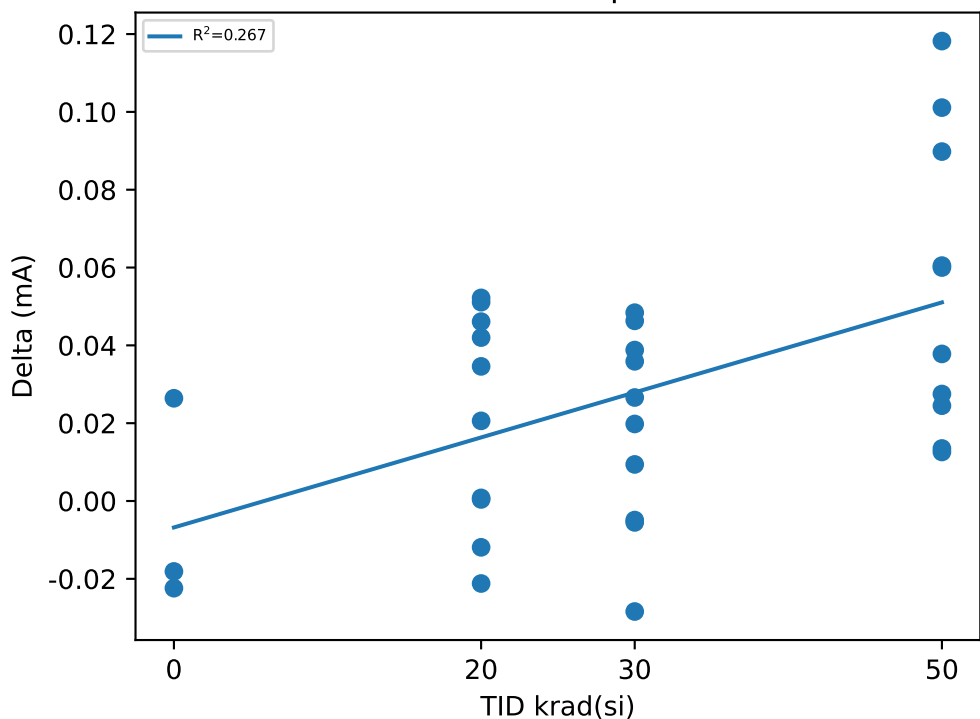
TID vs Result Stats



Test Results (Upper Limit = 28.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	12.524	12.57	0.0461
22	20	HDR BIAS	12.373	12.408	0.0346
23	20	HDR BIAS	12.395	12.446	0.0511
24	20	HDR BIAS	12.42	12.408	-0.0119
25	20	HDR BIAS	12.619	12.598	-0.0212
26	20	HDR UNBIAS	12.437	12.438	0.0008
27	20	HDR UNBIAS	12.483	12.535	0.0522
28	20	HDR UNBIAS	12.35	12.392	0.042
29	20	HDR UNBIAS	12.474	12.475	0.0004
30	20	HDR UNBIAS	12.364	12.385	0.0206
31	30	HDR BIAS	12.305	12.3	-0.0055
32	30	HDR BIAS	12.549	12.585	0.0359
33	30	HDR BIAS	12.334	12.382	0.0484
34	30	HDR BIAS	12.233	12.243	0.0094
35	30	HDR BIAS	12.337	12.357	0.0198
36	30	HDR UNBIAS	12.472	12.518	0.0463
37	30	HDR UNBIAS	12.408	12.434	0.0266
38	30	HDR UNBIAS	12.314	12.353	0.0388
39	30	HDR UNBIAS	12.682	12.654	-0.0284
40	30	HDR UNBIAS	12.306	12.301	-0.0049
41	50	HDR BIAS	12.28	12.294	0.0135
42	50	HDR BIAS	12.391	12.403	0.0126
43	50	HDR BIAS	12.31	12.371	0.0605
44	50	HDR BIAS	12.491	12.592	0.1011
45	50	HDR BIAS	12.408	12.445	0.0378
46	50	HDR UNBIAS	12.444	12.534	0.0898
47	50	HDR UNBIAS	12.385	12.409	0.0245
48	50	HDR UNBIAS	12.297	12.325	0.0275
49	50	HDR UNBIAS	12.592	12.652	0.06
50	50	HDR UNBIAS	12.469	12.587	0.1182
71	0	CORRELATION	12.274	12.3	0.0264
72	0	CORRELATION	12.168	12.15	-0.0181
73	0	CORRELATION	12.408	12.386	-0.0224

TID vs Post - Pre Exposure Delta

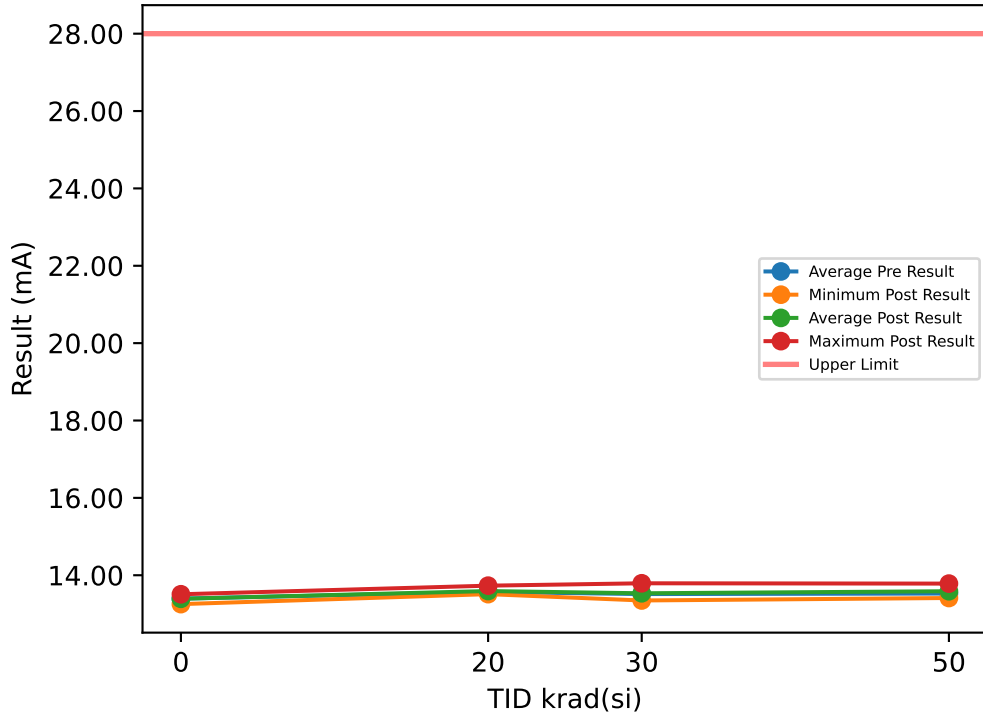


Test Statistics (mA)

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	12.168	12.283	12.408	0.12052	12.15	12.279	12.386	0.11959	-0.0224	-0.0047	0.0264	0.027019
20	12.35	12.444	12.619	0.083389	12.385	12.465	12.598	0.076706	-0.0212	0.02147	0.0522	0.027546
30	12.233	12.394	12.682	0.13663	12.243	12.413	12.654	0.13378	-0.0284	0.01864	0.0484	0.025506
50	12.28	12.407	12.592	0.097087	12.294	12.461	12.652	0.12288	0.0126	0.05455	0.1182	0.037839

# Device Test: 14.27 IDD|SUPPLY CURRENT/IN/5/5/0/1000/5/1MHz//@IDD\_ACT\_1M\_LOAD\_5V

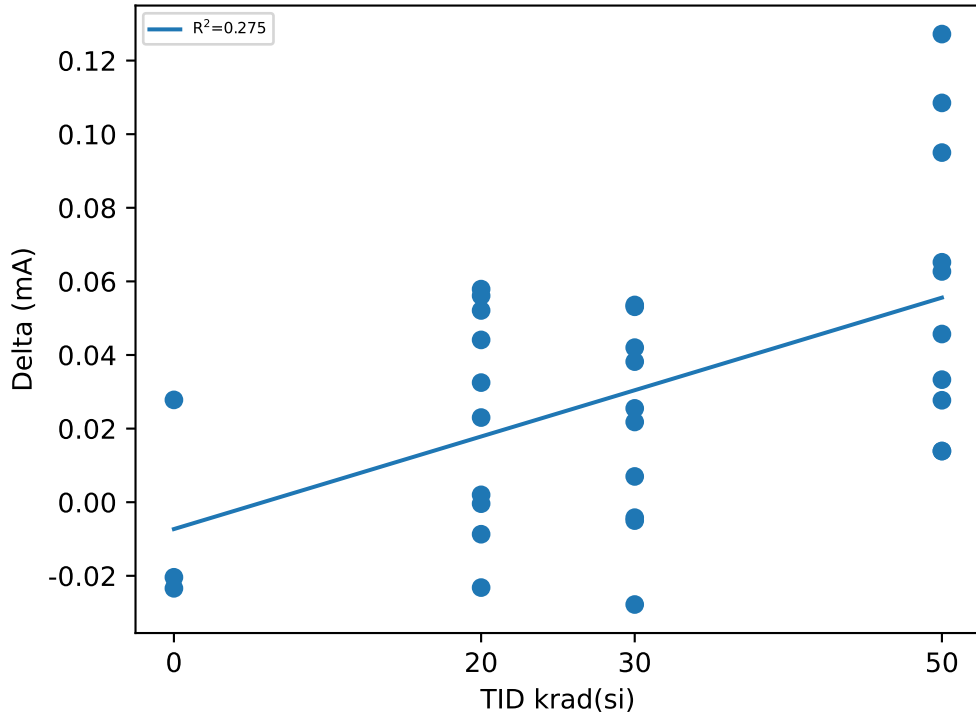
### TID vs Result Stats



### Test Results (Upper Limit = 28.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	13.65	13.702	0.0521
22	20	HDR BIAS	13.495	13.527	0.0325
23	20	HDR BIAS	13.517	13.573	0.0561
24	20	HDR BIAS	13.538	13.529	-0.0087
25	20	HDR BIAS	13.754	13.73	-0.0232
26	20	HDR UNBIAS	13.563	13.562	-0.0004
27	20	HDR UNBIAS	13.604	13.662	0.0579
28	20	HDR UNBIAS	13.47	13.514	0.0441
29	20	HDR UNBIAS	13.6	13.602	0.002
30	20	HDR UNBIAS	13.488	13.511	0.023
31	30	HDR BIAS	13.418	13.413	-0.005
32	30	HDR BIAS	13.676	13.714	0.0382
33	30	HDR BIAS	13.451	13.505	0.0536
34	30	HDR BIAS	13.341	13.348	0.007
35	30	HDR BIAS	13.454	13.476	0.0218
36	30	HDR UNBIAS	13.594	13.648	0.0531
37	30	HDR UNBIAS	13.533	13.558	0.0255
38	30	HDR UNBIAS	13.426	13.468	0.042
39	30	HDR UNBIAS	13.82	13.792	-0.0278
40	30	HDR UNBIAS	13.419	13.415	-0.0042
41	50	HDR BIAS	13.398	13.411	0.0139
42	50	HDR BIAS	13.505	13.519	0.0139
43	50	HDR BIAS	13.428	13.493	0.0652
44	50	HDR BIAS	13.615	13.723	0.1085
45	50	HDR BIAS	13.523	13.569	0.0457
46	50	HDR UNBIAS	13.568	13.662	0.095
47	50	HDR UNBIAS	13.506	13.534	0.0277
48	50	HDR UNBIAS	13.412	13.446	0.0333
49	50	HDR UNBIAS	13.721	13.784	0.0627
50	50	HDR UNBIAS	13.595	13.722	0.1272
71	0	CORRELATION	13.383	13.411	0.0278
72	0	CORRELATION	13.274	13.254	-0.0204
73	0	CORRELATION	13.532	13.508	-0.0234

### TID vs Post - Pre Exposure Delta

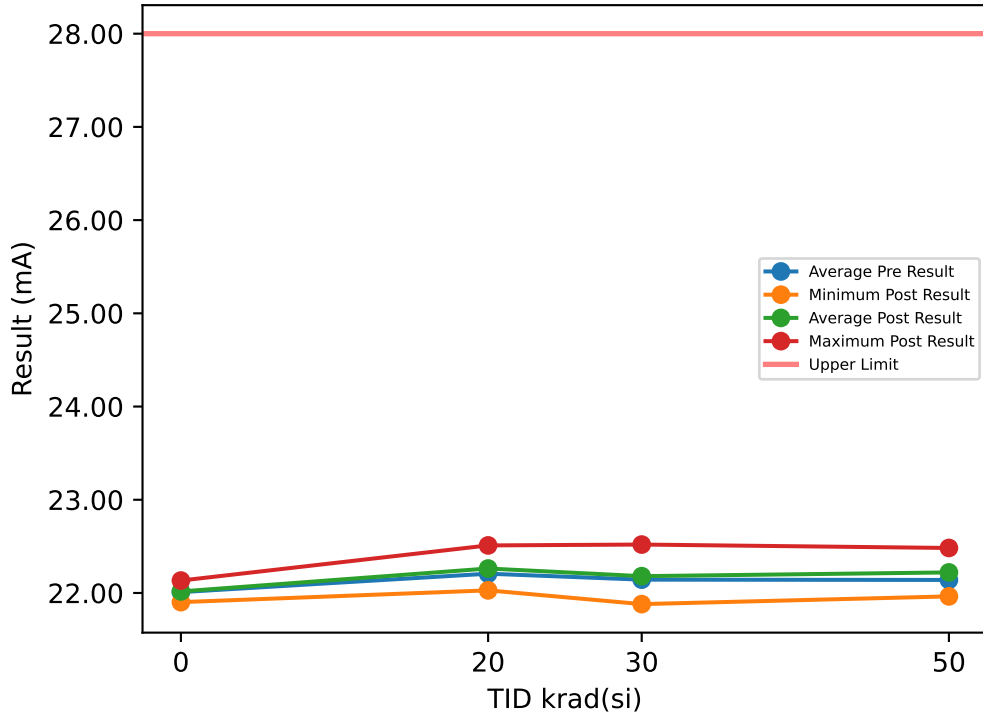


### Test Statistics (mA)

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	13.274	13.396	13.532	0.12934	13.254	13.391	13.508	0.12854	-0.0234	-0.0053333	0.0278	0.028733
20	13.47	13.568	13.754	0.087232	13.511	13.591	13.73	0.080491	-0.0232	0.02354	0.0579	0.029479
30	13.341	13.513	13.82	0.14529	13.348	13.534	13.792	0.14319	-0.0278	0.02042	0.0536	0.027358
50	13.398	13.527	13.721	0.10129	13.411	13.586	13.784	0.12853	0.0139	0.05931	0.1272	0.039908

# Device Test: 14.28 IDD|SUPPLY CURRENT/IN/12/12/0/1000/5/1MHz//@IDD\_ACT\_1M\_LOAD\_12V

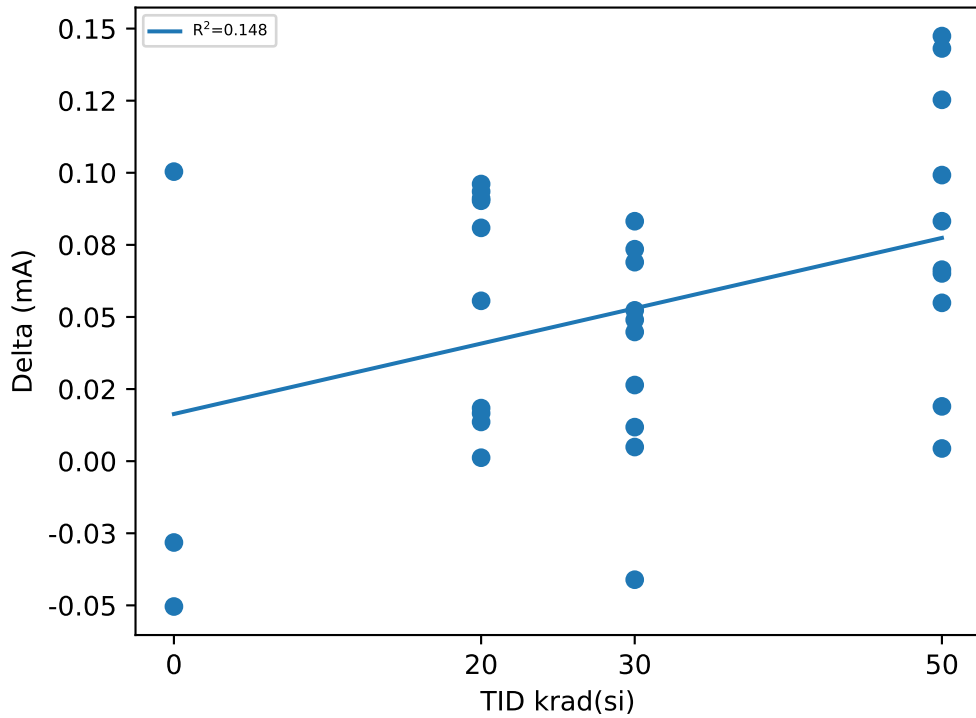
### TID vs Result Stats



### Test Results (Upper Limit = 28.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	22.415	22.495	0.0809
22	20	HDR BIAS	22.076	22.131	0.0556
23	20	HDR BIAS	22.169	22.26	0.0911
24	20	HDR BIAS	22.012	22.028	0.0166
25	20	HDR BIAS	22.509	22.51	0.0012
26	20	HDR UNBIAS	22.239	22.258	0.0184
27	20	HDR UNBIAS	22.143	22.237	0.0935
28	20	HDR UNBIAS	22.137	22.234	0.0961
29	20	HDR UNBIAS	22.204	22.217	0.0136
30	20	HDR UNBIAS	22.165	22.255	0.0903
31	30	HDR BIAS	22.029	22.074	0.0448
32	30	HDR BIAS	22.329	22.381	0.0523
33	30	HDR BIAS	22.061	22.144	0.0832
34	30	HDR BIAS	21.869	21.881	0.0118
35	30	HDR BIAS	22.04	22.067	0.0264
36	30	HDR UNBIAS	22.287	22.336	0.049
37	30	HDR UNBIAS	22.183	22.257	0.0735
38	30	HDR UNBIAS	22.03	22.099	0.069
39	30	HDR UNBIAS	22.515	22.52	0.0049
40	30	HDR UNBIAS	22.087	22.046	-0.0411
41	50	HDR BIAS	21.944	21.963	0.019
42	50	HDR BIAS	22.098	22.163	0.0651
43	50	HDR BIAS	22.01	22.093	0.0832
44	50	HDR BIAS	22.248	22.395	0.1474
45	50	HDR BIAS	22.086	22.186	0.0992
46	50	HDR UNBIAS	22.214	22.339	0.1253
47	50	HDR UNBIAS	22.105	22.16	0.0549
48	50	HDR UNBIAS	21.995	21.999	0.0044
49	50	HDR UNBIAS	22.416	22.483	0.0664
50	50	HDR UNBIAS	22.282	22.425	0.1431
71	0	CORRELATION	21.914	22.015	0.1004
72	0	CORRELATION	21.93	21.902	-0.0282
73	0	CORRELATION	22.184	22.133	-0.0504

### TID vs Post - Pre Exposure Delta



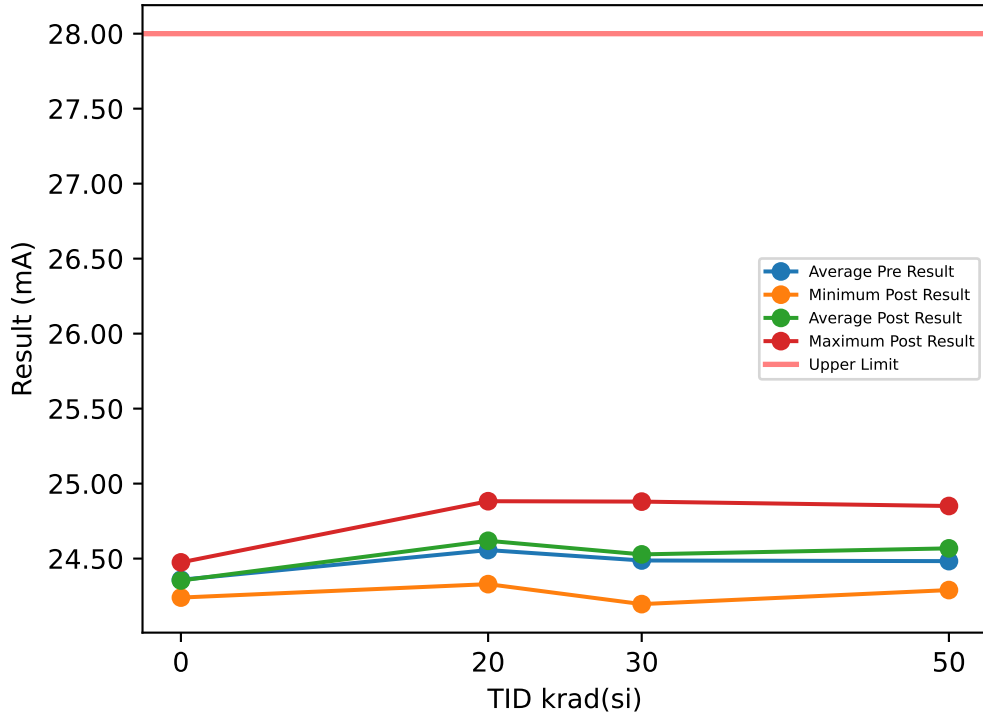
### Test Statistics (mA)

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	21.914	22.009	22.184	0.15138	21.902	22.016	22.133	0.11591	-0.0504	0.0072667	0.1004	0.081416
20	22.012	22.207	22.509	0.15016	22.028	22.263	22.51	0.14584	0.0012	0.05573	0.0961	0.039171
30	21.869	22.143	22.515	0.18751	21.881	22.18	22.52	0.19023	-0.0411	0.03738	0.0832	0.037721
50	21.944	22.14	22.416	0.14746	21.963	22.221	22.483	0.18093	0.0044	0.0808	0.1474	0.048788



# Device Test: 14.29 IDD|SUPPLY CURRENT/IN/14/14/0/1000/5/1MHz//@IDD\_ACT\_1M\_LOAD\_14V

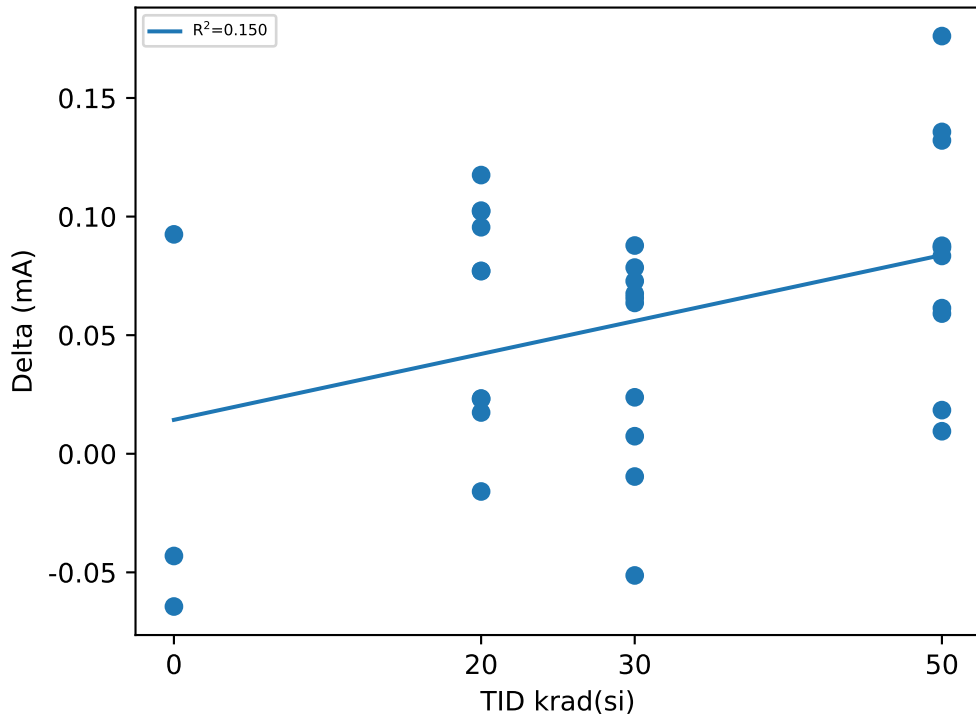
### TID vs Result Stats



### Test Results (Upper Limit = 28.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	24.78	24.883	0.1022
22	20	HDR BIAS	24.406	24.483	0.077
23	20	HDR BIAS	24.523	24.618	0.0955
24	20	HDR BIAS	24.312	24.33	0.0174
25	20	HDR BIAS	24.897	24.881	-0.0159
26	20	HDR UNBIAS	24.604	24.627	0.0233
27	20	HDR UNBIAS	24.482	24.559	0.0771
28	20	HDR UNBIAS	24.501	24.619	0.1175
29	20	HDR UNBIAS	24.546	24.569	0.0231
30	20	HDR UNBIAS	24.517	24.619	0.1025
31	30	HDR BIAS	24.362	24.435	0.0728
32	30	HDR BIAS	24.671	24.736	0.0657
33	30	HDR BIAS	24.401	24.488	0.0878
34	30	HDR BIAS	24.206	24.197	-0.0096
35	30	HDR BIAS	24.38	24.404	0.0238
36	30	HDR UNBIAS	24.647	24.711	0.0636
37	30	HDR UNBIAS	24.543	24.61	0.0675
38	30	HDR UNBIAS	24.36	24.438	0.0785
39	30	HDR UNBIAS	24.873	24.88	0.0074
40	30	HDR UNBIAS	24.433	24.382	-0.0513
41	50	HDR BIAS	24.272	24.29	0.0184
42	50	HDR BIAS	24.438	24.499	0.0614
43	50	HDR BIAS	24.37	24.457	0.0869
44	50	HDR BIAS	24.576	24.752	0.1761
45	50	HDR BIAS	24.427	24.514	0.0877
46	50	HDR UNBIAS	24.571	24.703	0.1321
47	50	HDR UNBIAS	24.442	24.501	0.0591
48	50	HDR UNBIAS	24.318	24.328	0.0095
49	50	HDR UNBIAS	24.767	24.851	0.0834
50	50	HDR UNBIAS	24.652	24.788	0.1357
71	0	CORRELATION	24.255	24.347	0.0925
72	0	CORRELATION	24.283	24.24	-0.0431
73	0	CORRELATION	24.539	24.475	-0.0644

### TID vs Post - Pre Exposure Delta

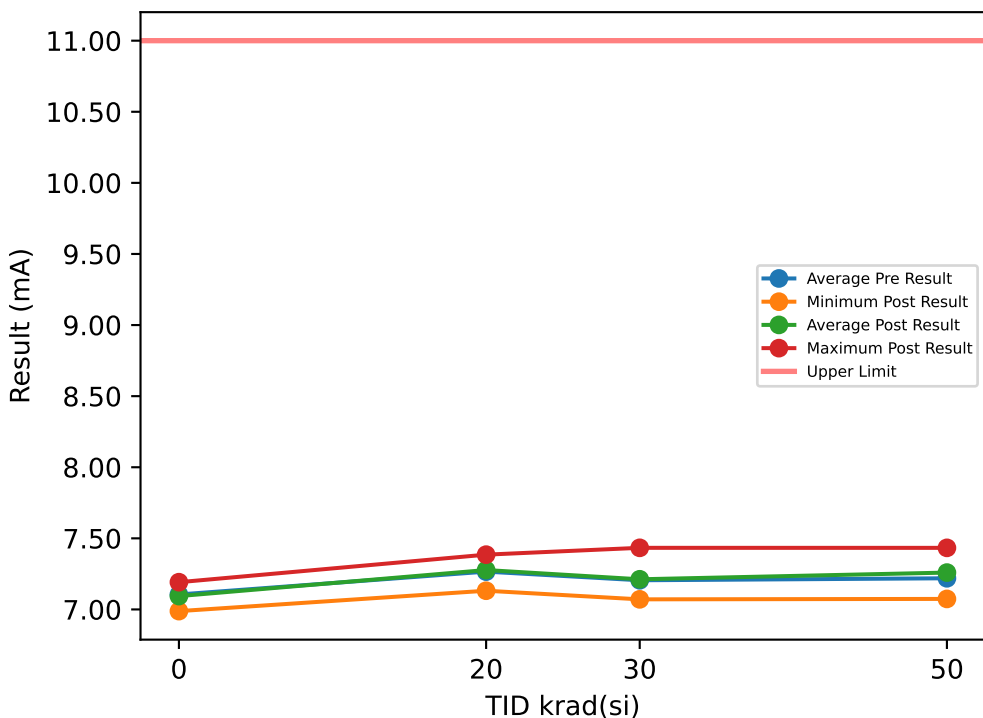


### Test Statistics (mA)

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	24.255	24.359	24.539	0.15674	24.24	24.354	24.475	0.1175	-0.0644	-0.005	0.0925	0.085106
20	24.312	24.557	24.897	0.17074	24.33	24.619	24.883	0.1656	-0.0159	0.06197	0.1175	0.045923
30	24.206	24.487	24.873	0.19548	24.197	24.528	24.88	0.20349	-0.0513	0.04062	0.0878	0.045867
50	24.272	24.483	24.767	0.15531	24.29	24.568	24.851	0.19421	0.0095	0.08503	0.1761	0.052138



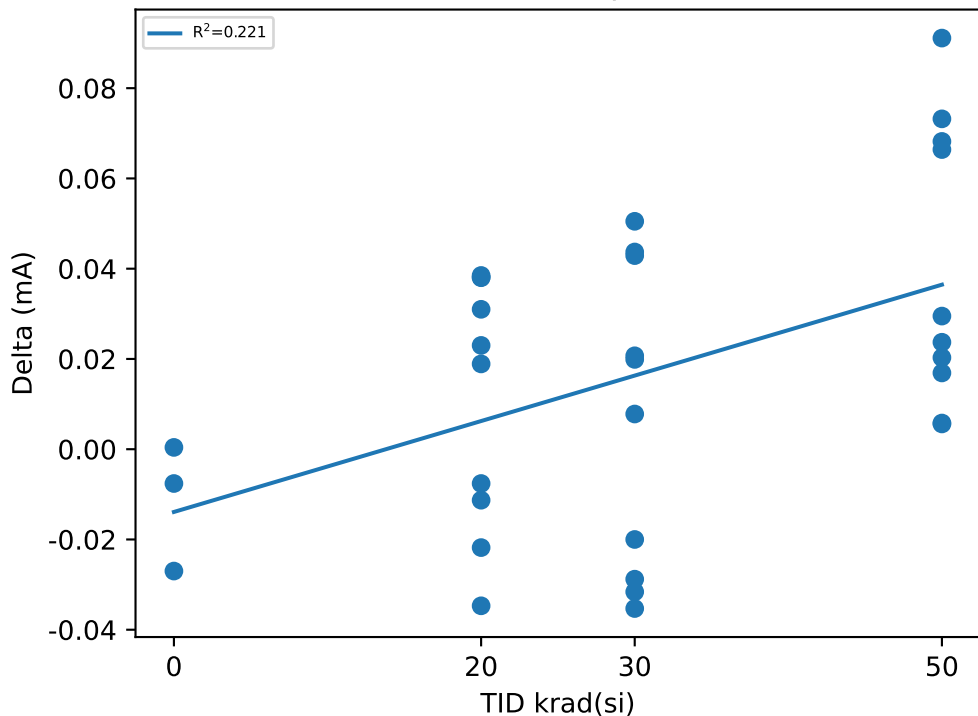
TID vs Result Stats



Test Results (Upper Limit = 11.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.3256	7.3641	0.0385
22	20	HDR BIAS	7.1997	7.2186	0.0189
23	20	HDR BIAS	7.2807	7.3188	0.0381
24	20	HDR BIAS	7.3186	7.2968	-0.0218
25	20	HDR BIAS	7.3796	7.3449	-0.0347
26	20	HDR UNBIAS	7.2972	7.2896	-0.0076
27	20	HDR UNBIAS	7.3473	7.3853	0.038
28	20	HDR UNBIAS	7.1006	7.1316	0.031
29	20	HDR UNBIAS	7.2582	7.2469	-0.0113
30	20	HDR UNBIAS	7.1511	7.1741	0.023
31	30	HDR BIAS	7.1778	7.1425	-0.0353
32	30	HDR BIAS	7.3303	7.351	0.0207
33	30	HDR BIAS	7.1632	7.2061	0.0429
34	30	HDR BIAS	7.091	7.071	-0.02
35	30	HDR BIAS	7.1184	7.1383	0.0199
36	30	HDR UNBIAS	7.2529	7.3034	0.0505
37	30	HDR UNBIAS	7.2037	7.2115	0.0078
38	30	HDR UNBIAS	7.1475	7.1912	0.0437
39	30	HDR UNBIAS	7.4649	7.4333	-0.0316
40	30	HDR UNBIAS	7.1016	7.0728	-0.0288
41	50	HDR BIAS	7.0682	7.074	0.0058
42	50	HDR BIAS	7.1814	7.187	0.0056
43	50	HDR BIAS	7.1347	7.155	0.0203
44	50	HDR BIAS	7.3192	7.3874	0.0682
45	50	HDR BIAS	7.2664	7.2959	0.0295
46	50	HDR UNBIAS	7.2223	7.2955	0.0732
47	50	HDR UNBIAS	7.2025	7.2194	0.0169
48	50	HDR UNBIAS	7.1297	7.1961	0.0664
49	50	HDR UNBIAS	7.4094	7.4331	0.0237
50	50	HDR UNBIAS	7.2575	7.3486	0.0911
71	0	CORRELATION	7.1288	7.1018	-0.027
72	0	CORRELATION	6.9958	6.9882	-0.0076
73	0	CORRELATION	7.1912	7.1916	0.0004

TID vs Post - Pre Exposure Delta

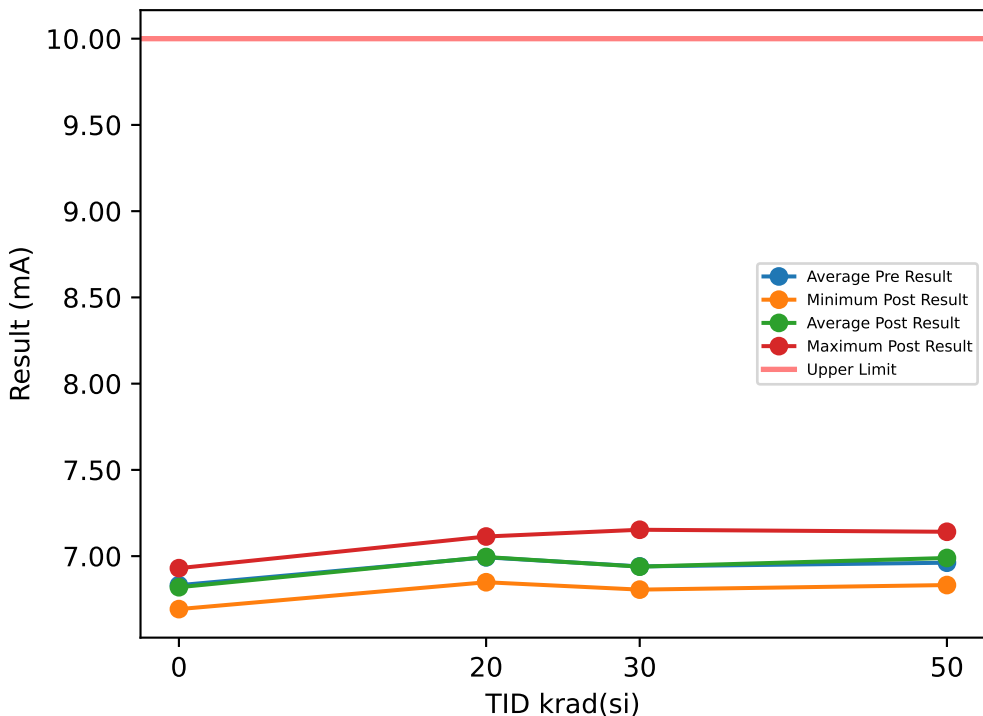


Test Statistics (mA)

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	6.9958	7.1053	7.1912	0.099803	6.9882	7.0939	7.1916	0.10193	-0.027	-0.0114	0.0004	0.01409
20	7.1006	7.2659	7.3796	0.089467	7.1316	7.2771	7.3853	0.08318	-0.0347	0.01121	0.0385	0.027554
30	7.091	7.2051	7.4649	0.11668	7.071	7.2121	7.4333	0.11862	-0.0353	0.00698	0.0505	0.03362
50	7.0682	7.2191	7.4094	0.099744	7.074	7.2592	7.4331	0.11218	0.0056	0.04007	0.0911	0.031369

Device Test: 14.30 IDD|SUPPLY CURRENT/IN/5/12/0/1000/5/100kHz//@IDD\_ACT\_100K\_LOAD\_LDO

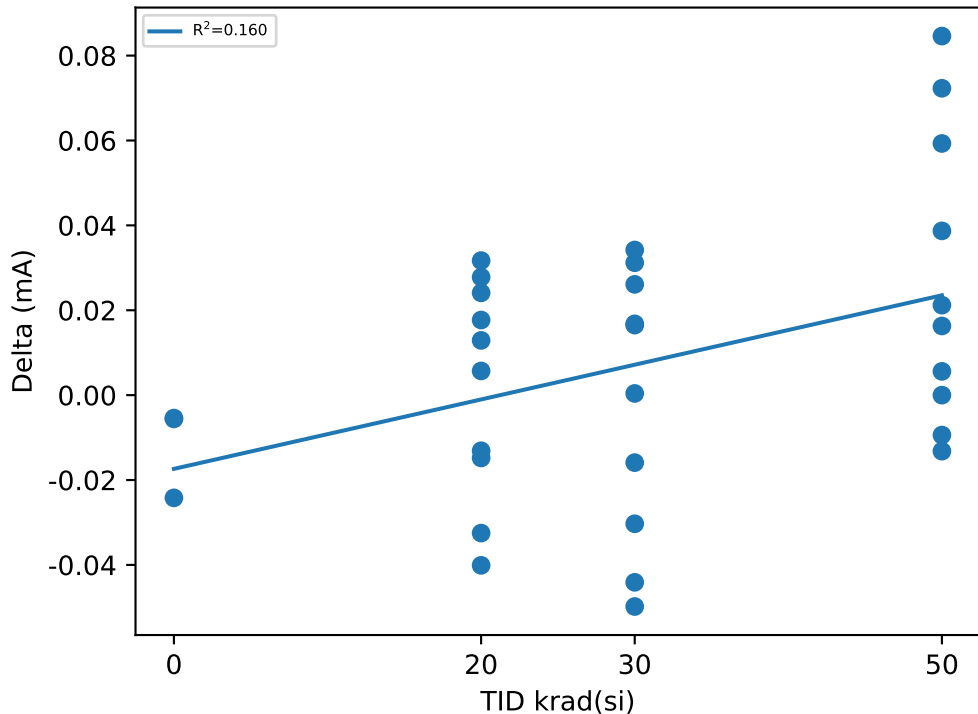
TID vs Result Stats



Test Results (Upper Limit = 10.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.0337	7.0578	0.0241
22	20	HDR BIAS	6.9416	6.9545	0.0129
23	20	HDR BIAS	6.9724	7.0041	0.0317
24	20	HDR BIAS	7.0572	7.0247	-0.0325
25	20	HDR BIAS	7.1076	7.0675	-0.0401
26	20	HDR UNBIAS	6.9963	6.9832	-0.0131
27	20	HDR UNBIAS	7.086	7.1138	0.0278
28	20	HDR UNBIAS	6.831	6.8487	0.0177
29	20	HDR UNBIAS	7.0264	7.0116	-0.0148
30	20	HDR UNBIAS	6.878	6.8837	0.0057
31	30	HDR BIAS	6.907	6.8629	-0.0441
32	30	HDR BIAS	7.0831	7.0996	0.0165
33	30	HDR BIAS	6.8712	6.9024	0.0312
34	30	HDR BIAS	6.8218	6.8059	-0.0159
35	30	HDR BIAS	6.8702	6.887	0.0168
36	30	HDR UNBIAS	6.989	7.0232	0.0342
37	30	HDR UNBIAS	6.9516	6.952	0.0004
38	30	HDR UNBIAS	6.8718	6.8979	0.0261
39	30	HDR UNBIAS	7.2028	7.153	-0.0498
40	30	HDR UNBIAS	6.8366	6.8063	-0.0303
41	50	HDR BIAS	6.8456	6.8324	-0.0132
42	50	HDR BIAS	6.9438	6.9344	-0.0094
43	50	HDR BIAS	6.8871	6.9083	0.0212
44	50	HDR BIAS	7.0462	7.1185	0.0723
45	50	HDR BIAS	6.9879	6.9935	0.0056
46	50	HDR UNBIAS	6.9731	7.0324	0.0593
47	50	HDR UNBIAS	6.9447	6.9447	0
48	50	HDR UNBIAS	6.8696	6.9083	0.0387
49	50	HDR UNBIAS	7.125	7.1413	0.0163
50	50	HDR UNBIAS	6.9956	7.0802	0.0846
71	0	CORRELATION	6.8604	6.8362	-0.0242
72	0	CORRELATION	6.6983	6.6929	-0.0054
73	0	CORRELATION	6.9359	6.9303	-0.0056

TID vs Post - Pre Exposure Delta

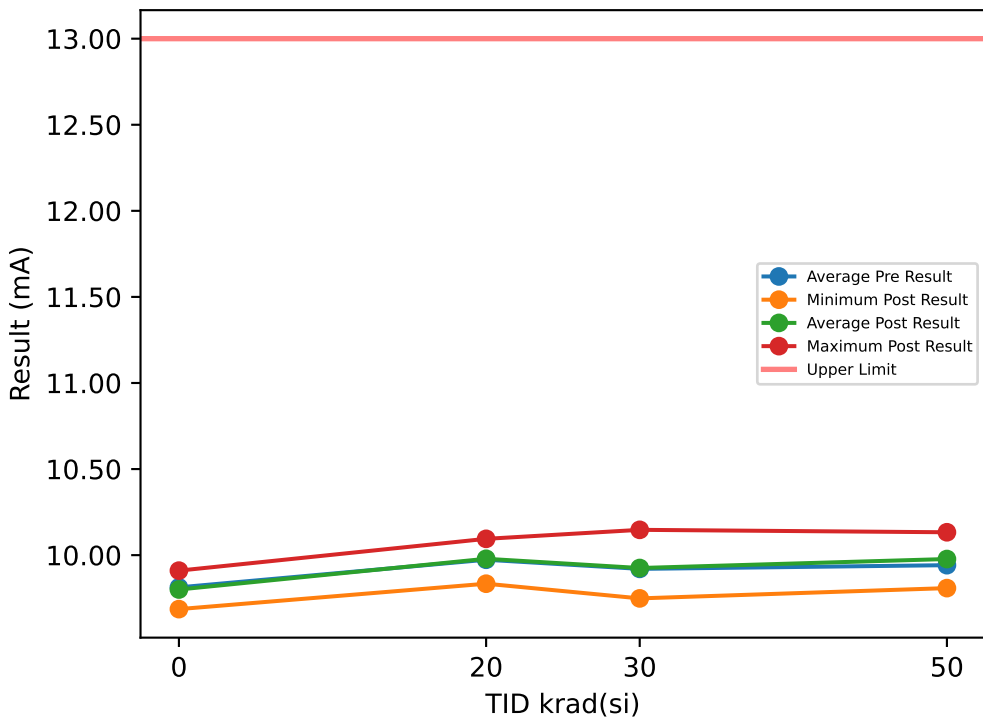


Test Statistics (mA)

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	6.6983	6.8315	6.9359	0.1214	6.6929	6.8198	6.9303	0.11955	-0.0242	-0.011733	-0.0054	0.010797
20	6.831	6.993	7.1076	0.088958	6.8487	6.995	7.1138	0.081735	-0.0401	0.00194	0.0317	0.025578
30	6.8218	6.9405	7.2028	0.12114	6.8059	6.939	7.153	0.11818	-0.0498	-0.00149	0.0342	0.031539
50	6.8456	6.9619	7.125	0.084267	6.8324	6.9894	7.1413	0.10148	-0.0132	0.02754	0.0846	0.034678

Device Test: 14.31 IDD|SUPPLY CURRENT/IN/5/12/0/1000/5/500kHz//@IDD\_ACT\_500K\_LOAD\_LDO

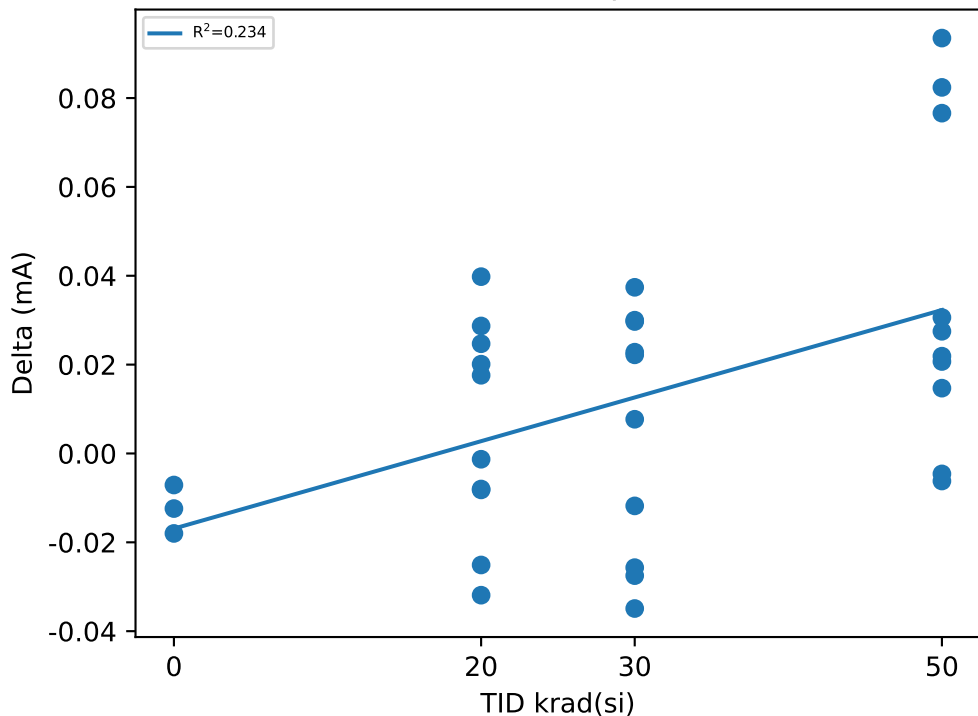
TID vs Result Stats



Test Results (Upper Limit = 13.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	10.055	10.079	0.0247
22	20	HDR BIAS	9.8964	9.914	0.0176
23	20	HDR BIAS	9.9531	9.9929	0.0398
24	20	HDR BIAS	9.9657	9.9406	-0.0251
25	20	HDR BIAS	10.127	10.095	-0.0319
26	20	HDR UNBIAS	9.9845	9.9763	-0.0082
27	20	HDR UNBIAS	10.03	10.058	0.0287
28	20	HDR UNBIAS	9.814	9.8341	0.0201
29	20	HDR UNBIAS	10.03	10.023	-0.008
30	20	HDR UNBIAS	9.8773	9.876	-0.0013
31	30	HDR BIAS	9.8662	9.8387	-0.0275
32	30	HDR BIAS	10.096	10.118	0.0228
33	30	HDR BIAS	9.8229	9.8529	0.03
34	30	HDR BIAS	9.7606	9.7488	-0.0118
35	30	HDR BIAS	9.8595	9.8817	0.0222
36	30	HDR UNBIAS	9.9811	10.018	0.0374
37	30	HDR UNBIAS	9.951	9.9587	0.0077
38	30	HDR UNBIAS	9.8517	9.8814	0.0297
39	30	HDR UNBIAS	10.182	10.147	-0.0349
40	30	HDR UNBIAS	9.832	9.8063	-0.0257
41	50	HDR BIAS	9.8131	9.8085	-0.0046
42	50	HDR BIAS	9.935	9.9288	-0.0062
43	50	HDR BIAS	9.8542	9.8848	0.0306
44	50	HDR BIAS	10.034	10.117	0.0824
45	50	HDR BIAS	9.939	9.9597	0.0207
46	50	HDR UNBIAS	9.9763	10.053	0.0766
47	50	HDR UNBIAS	9.9099	9.9246	0.0147
48	50	HDR UNBIAS	9.8509	9.8784	0.0275
49	50	HDR UNBIAS	10.111	10.133	0.0219
50	50	HDR UNBIAS	9.9936	10.087	0.0935
71	0	CORRELATION	9.817	9.8046	-0.0124
72	0	CORRELATION	9.6936	9.6865	-0.0071
73	0	CORRELATION	9.928	9.91	-0.018

TID vs Post - Pre Exposure Delta

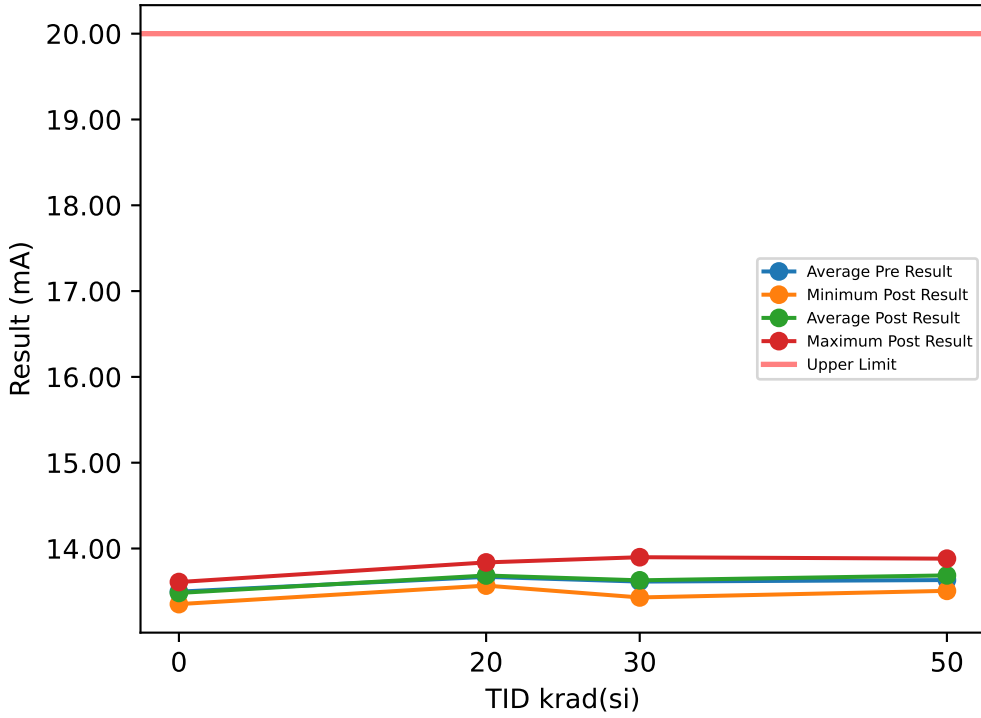


Test Statistics (mA)

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	9.6936	9.8129	9.928	0.11725	9.6865	9.8004	9.91	0.11181	-0.018	-0.0125	-0.0071	0.0054507
20	9.814	9.9732	10.127	0.092885	9.8341	9.9789	10.095	0.087643	-0.0319	0.00564	0.0398	0.024023
30	9.7606	9.9203	10.182	0.13248	9.7488	9.9253	10.147	0.13257	-0.0349	0.00499	0.0374	0.027442
50	9.8131	9.9417	10.111	0.091051	9.8085	9.9774	10.133	0.11238	-0.0062	0.03571	0.0935	0.035783

# Device Test: 14.32 IDD|SUPPLY CURRENT|IN/5/12/0/1000/5/1MHz//@IDD\_ACT\_1M\_LOAD\_LDO

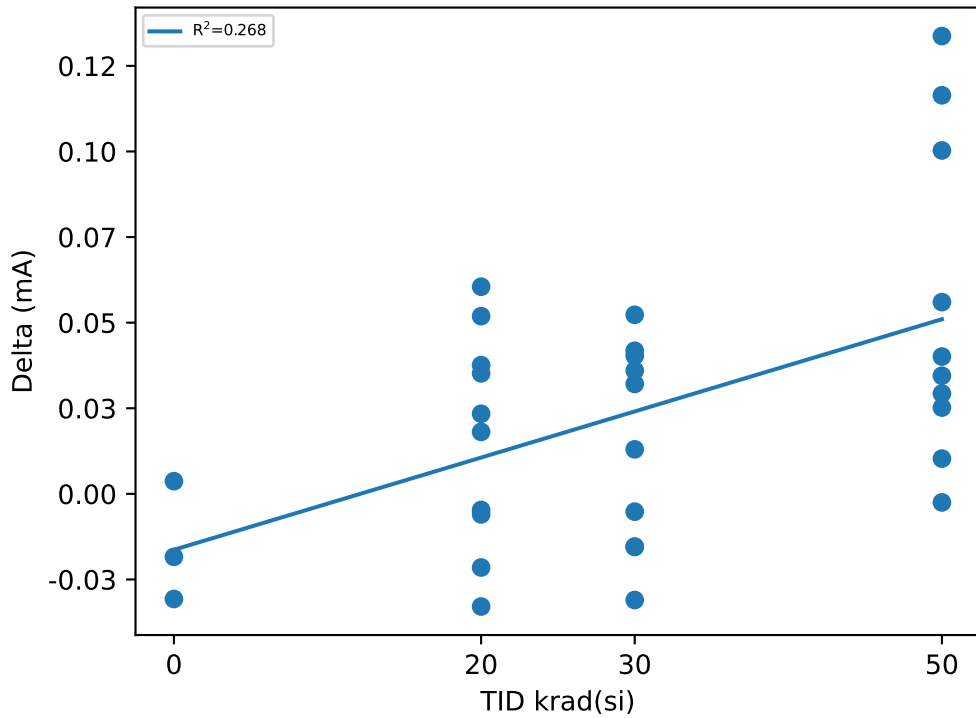
### TID vs Result Stats



### Test Results (Upper Limit = 20.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	13.769	13.806	0.0376
22	20	HDR BIAS	13.581	13.605	0.0234
23	20	HDR BIAS	13.643	13.704	0.0605
24	20	HDR BIAS	13.636	13.614	-0.0215
25	20	HDR BIAS	13.871	13.838	-0.0329
26	20	HDR UNBIAS	13.688	13.682	-0.006
27	20	HDR UNBIAS	13.691	13.742	0.0519
28	20	HDR UNBIAS	13.533	13.568	0.0352
29	20	HDR UNBIAS	13.72	13.716	-0.0047
30	20	HDR UNBIAS	13.562	13.58	0.0181
31	30	HDR BIAS	13.537	13.521	-0.0154
32	30	HDR BIAS	13.799	13.835	0.036
33	30	HDR BIAS	13.515	13.557	0.0418
34	30	HDR BIAS	13.435	13.43	-0.0052
35	30	HDR BIAS	13.525	13.557	0.0321
36	30	HDR UNBIAS	13.681	13.733	0.0523
37	30	HDR UNBIAS	13.676	13.689	0.013
38	30	HDR UNBIAS	13.532	13.572	0.0403
39	30	HDR UNBIAS	13.93	13.899	-0.031
40	30	HDR UNBIAS	13.515	13.499	-0.0155
41	50	HDR BIAS	13.509	13.507	-0.0025
42	50	HDR BIAS	13.598	13.608	0.0103
43	50	HDR BIAS	13.529	13.585	0.056
44	50	HDR BIAS	13.716	13.832	0.1164
45	50	HDR BIAS	13.615	13.655	0.0401
46	50	HDR UNBIAS	13.667	13.767	0.1003
47	50	HDR UNBIAS	13.623	13.648	0.0252
48	50	HDR UNBIAS	13.506	13.535	0.0293
49	50	HDR UNBIAS	13.847	13.882	0.0345
50	50	HDR UNBIAS	13.715	13.848	0.1337
71	0	CORRELATION	13.482	13.485	0.0037
72	0	CORRELATION	13.37	13.352	-0.0184
73	0	CORRELATION	13.64	13.609	-0.0307

### TID vs Post - Pre Exposure Delta

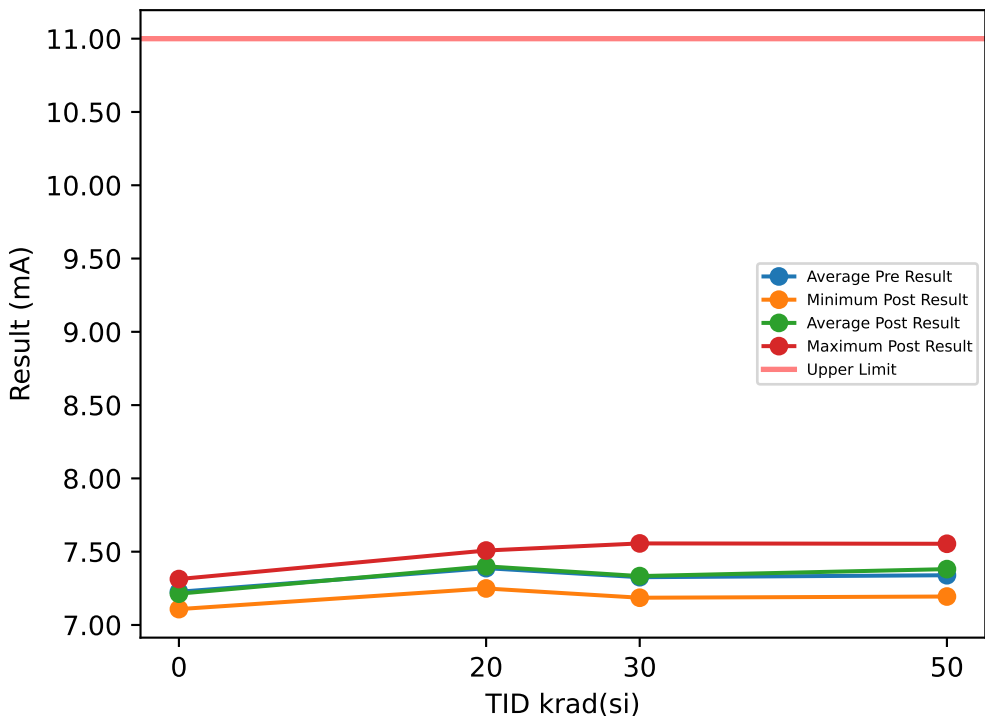


### Test Statistics (mA)

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	13.37	13.497	13.64	0.13548	13.352	13.482	13.609	0.12868	-0.0307	-0.015133	0.0037	0.017431
20	13.533	13.669	13.871	0.10203	13.568	13.685	13.838	0.093672	-0.0329	0.01616	0.0605	0.031399
30	13.435	13.614	13.93	0.15436	13.43	13.629	13.899	0.15321	-0.031	0.01484	0.0523	0.029562
50	13.506	13.632	13.847	0.10771	13.507	13.687	13.882	0.13582	-0.0025	0.05433	0.1337	0.046556

# Device Test: 14.4 IDD|SUPPLY CURRENT/IN/14/14/0/0/5/100kHz//@IDD\_ACT\_100K\_NOLOAD

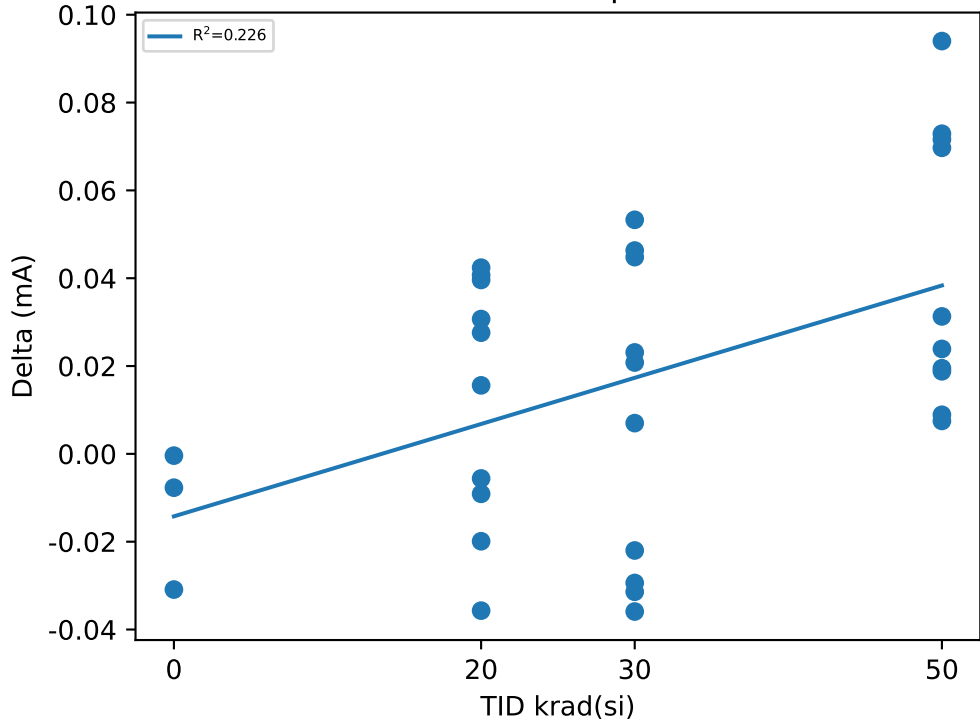
### TID vs Result Stats



### Test Results (Upper Limit = 11.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.4531	7.4955	0.0424
22	20	HDR BIAS	7.3226	7.3382	0.0156
23	20	HDR BIAS	7.4073	7.4469	0.0396
24	20	HDR BIAS	7.4329	7.413	-0.0199
25	20	HDR BIAS	7.5002	7.4645	-0.0357
26	20	HDR UNBIAS	7.422	7.4164	-0.0056
27	20	HDR UNBIAS	7.4672	7.5079	0.0407
28	20	HDR UNBIAS	7.2184	7.2491	0.0307
29	20	HDR UNBIAS	7.382	7.3729	-0.0091
30	20	HDR UNBIAS	7.2706	7.2982	0.0276
31	30	HDR BIAS	7.303	7.2671	-0.0359
32	30	HDR BIAS	7.4518	7.4749	0.0231
33	30	HDR BIAS	7.2805	7.3253	0.0448
34	30	HDR BIAS	7.2079	7.1859	-0.022
35	30	HDR BIAS	7.2367	7.2575	0.0208
36	30	HDR UNBIAS	7.374	7.4273	0.0533
37	30	HDR UNBIAS	7.3228	7.3298	0.007
38	30	HDR UNBIAS	7.2738	7.3201	0.0463
39	30	HDR UNBIAS	7.5858	7.5564	-0.0294
40	30	HDR UNBIAS	7.2221	7.1907	-0.0314
41	50	HDR BIAS	7.1852	7.1941	0.0089
42	50	HDR BIAS	7.2986	7.3061	0.0075
43	50	HDR BIAS	7.2529	7.2717	0.0188
44	50	HDR BIAS	7.439	7.5106	0.0716
45	50	HDR BIAS	7.3845	7.4158	0.0313
46	50	HDR UNBIAS	7.3472	7.4201	0.0729
47	50	HDR UNBIAS	7.3239	7.3434	0.0195
48	50	HDR UNBIAS	7.2539	7.3236	0.0697
49	50	HDR UNBIAS	7.5301	7.554	0.0239
50	50	HDR UNBIAS	7.3774	7.4714	0.094
71	0	CORRELATION	7.25	7.2191	-0.0309
72	0	CORRELATION	7.1159	7.1082	-0.0077
73	0	CORRELATION	7.3137	7.3133	-0.0004

### TID vs Post - Pre Exposure Delta

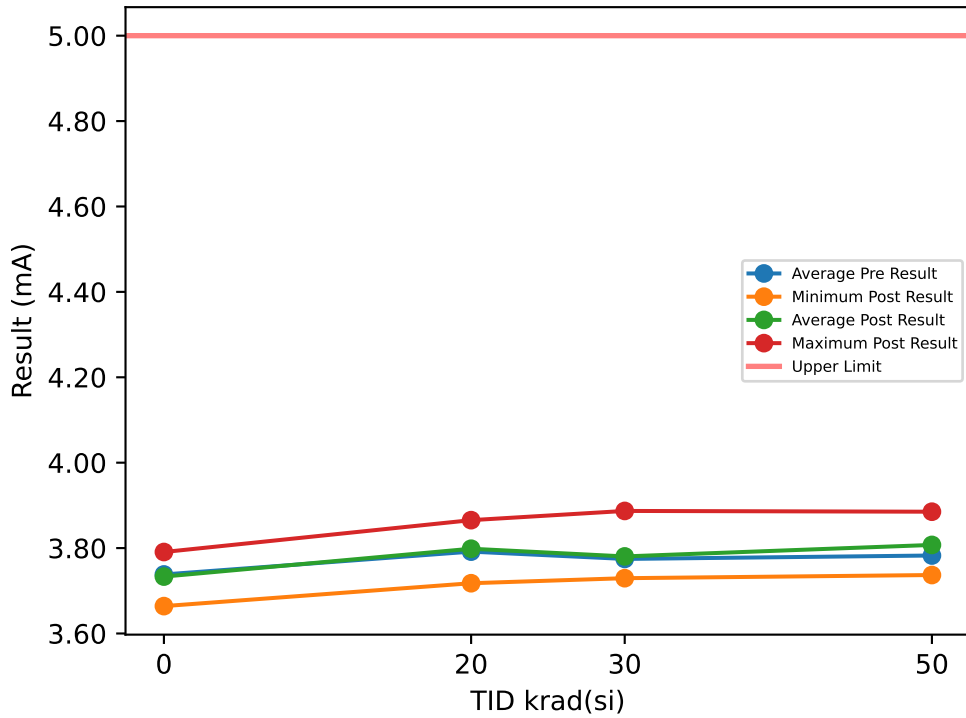


### Test Statistics (mA)

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	7.1159	7.2265	7.3137	0.10097	7.1082	7.2135	7.3133	0.10266	-0.0309	-0.013	-0.0004	0.015926
20	7.2184	7.3876	7.5002	0.090371	7.2491	7.4003	7.5079	0.085145	-0.0357	0.01263	0.0424	0.028205
30	7.2079	7.3258	7.5858	0.11723	7.1859	7.3335	7.5564	0.12069	-0.0359	0.00766	0.0533	0.035029
50	7.1852	7.3393	7.5301	0.10017	7.1941	7.3811	7.554	0.11296	0.0075	0.04181	0.094	0.031753

# Device Test: 14.5 ISTART|STARTUP CURRENT/IN/3.5/3.5/0/0/4.5/500kHz//@I\_START

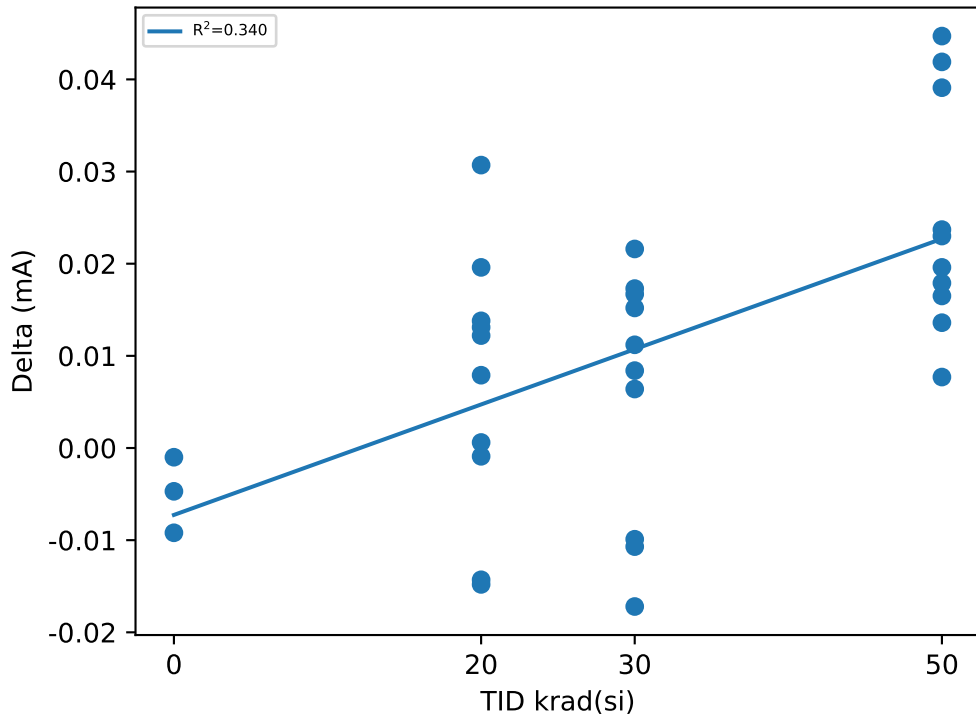
### TID vs Result Stats



### Test Results (Upper Limit = 5.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.8299	3.8606	0.0307
22	20	HDR BIAS	3.7794	3.799	0.0196
23	20	HDR BIAS	3.7723	3.7854	0.0131
24	20	HDR BIAS	3.8402	3.8254	-0.0148
25	20	HDR BIAS	3.8514	3.8371	-0.0143
26	20	HDR UNBIAS	3.7748	3.7754	0.0006
27	20	HDR UNBIAS	3.8532	3.8654	0.0122
28	20	HDR UNBIAS	3.7121	3.72	0.0079
29	20	HDR UNBIAS	3.7998	3.7989	-0.0009
30	20	HDR UNBIAS	3.7039	3.7177	0.0138
31	30	HDR BIAS	3.7499	3.7327	-0.0172
32	30	HDR BIAS	3.8402	3.8554	0.0152
33	30	HDR BIAS	3.745	3.7617	0.0167
34	30	HDR BIAS	3.7257	3.7369	0.0112
35	30	HDR BIAS	3.7464	3.7548	0.0084
36	30	HDR UNBIAS	3.7826	3.8042	0.0216
37	30	HDR UNBIAS	3.7665	3.7729	0.0064
38	30	HDR UNBIAS	3.7524	3.7697	0.0173
39	30	HDR UNBIAS	3.8969	3.887	-0.0099
40	30	HDR UNBIAS	3.7402	3.7295	-0.0107
41	50	HDR BIAS	3.7204	3.7369	0.0165
42	50	HDR BIAS	3.8008	3.8144	0.0136
43	50	HDR BIAS	3.7435	3.7614	0.0179
44	50	HDR BIAS	3.8101	3.8548	0.0447
45	50	HDR BIAS	3.8006	3.8202	0.0196
46	50	HDR UNBIAS	3.7908	3.8327	0.0419
47	50	HDR UNBIAS	3.7833	3.791	0.0077
48	50	HDR UNBIAS	3.7328	3.7565	0.0237
49	50	HDR UNBIAS	3.8622	3.8852	0.023
50	50	HDR UNBIAS	3.7817	3.8208	0.0391
71	0	CORRELATION	3.7541	3.7449	-0.0092
72	0	CORRELATION	3.6688	3.6641	-0.0047
73	0	CORRELATION	3.7918	3.7908	-0.001

### TID vs Post - Pre Exposure Delta



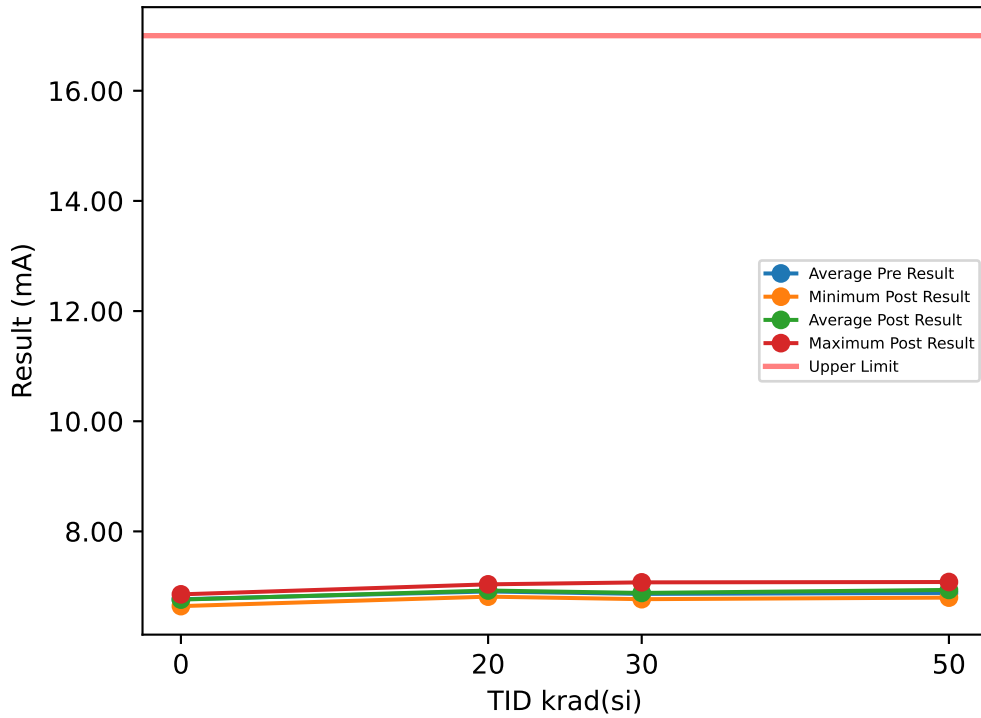
### Test Statistics (mA)

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	3.6688	3.7382	3.7918	0.063016	3.6641	3.7333	3.7908	0.064146	-0.0092	-0.0049667	-0.001	0.0041065
20	3.7039	3.7917	3.8532	0.053833	3.7177	3.7985	3.8654	0.051577	-0.0148	0.00679	0.0307	0.01439
30	3.7257	3.7746	3.8969	0.053478	3.7295	3.7805	3.887	0.053218	-0.0172	0.0059	0.0216	0.013634
50	3.7204	3.7826	3.8622	0.041758	3.7369	3.8074	3.8852	0.046282	0.0077	0.02477	0.0447	0.012731



# Device Test: 14.6 IDD|SUPPLY CURRENT/IN/4.5/4.5/0/0/4.5/500kHz//@IDD\_ACT\_500K\_NOLOAD

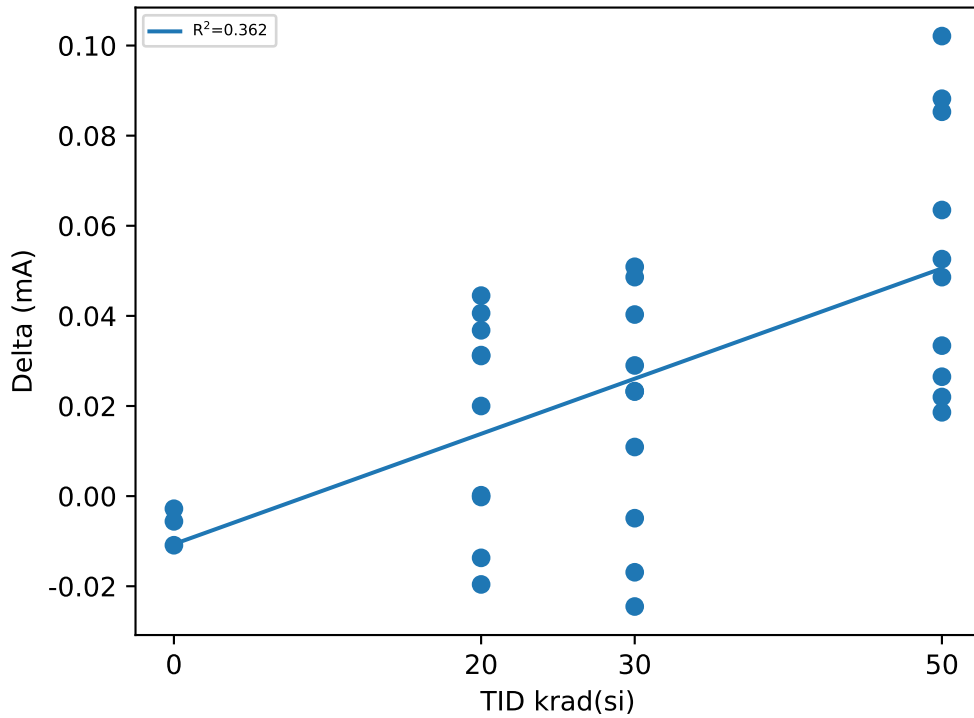
### TID vs Result Stats



### Test Results (Upper Limit = 17.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.9395	6.984	0.0445
22	20	HDR BIAS	6.8606	6.8919	0.0313
23	20	HDR BIAS	6.8754	6.9122	0.0368
24	20	HDR BIAS	6.9745	6.9608	-0.0137
25	20	HDR BIAS	7.024	7.0044	-0.0196
26	20	HDR UNBIAS	6.9021	6.9019	-0.0002
27	20	HDR UNBIAS	6.998	7.0386	0.0406
28	20	HDR UNBIAS	6.7841	6.8152	0.0311
29	20	HDR UNBIAS	6.9299	6.9301	0.0002
30	20	HDR UNBIAS	6.8056	6.8256	0.02
31	30	HDR BIAS	6.808	6.7911	-0.0169
32	30	HDR BIAS	6.9825	7.0115	0.029
33	30	HDR BIAS	6.8272	6.8758	0.0486
34	30	HDR BIAS	6.7584	6.7693	0.0109
35	30	HDR BIAS	6.8092	6.8325	0.0233
36	30	HDR UNBIAS	6.9173	6.9682	0.0509
37	30	HDR UNBIAS	6.8579	6.8811	0.0232
38	30	HDR UNBIAS	6.8105	6.8508	0.0403
39	30	HDR UNBIAS	7.0992	7.0747	-0.0245
40	30	HDR UNBIAS	6.7788	6.7739	-0.0049
41	50	HDR BIAS	6.7758	6.7978	0.022
42	50	HDR BIAS	6.8643	6.8829	0.0186
43	50	HDR BIAS	6.8202	6.8688	0.0486
44	50	HDR BIAS	6.9566	7.0448	0.0882
45	50	HDR BIAS	6.9153	6.9487	0.0334
46	50	HDR UNBIAS	6.8998	6.9851	0.0853
47	50	HDR UNBIAS	6.8621	6.8886	0.0265
48	50	HDR UNBIAS	6.797	6.8605	0.0635
49	50	HDR UNBIAS	7.0284	7.081	0.0526
50	50	HDR UNBIAS	6.9114	7.0135	0.1021
71	0	CORRELATION	6.7949	6.784	-0.0109
72	0	CORRELATION	6.649	6.6434	-0.0056
73	0	CORRELATION	6.8597	6.8569	-0.0028

### TID vs Post - Pre Exposure Delta



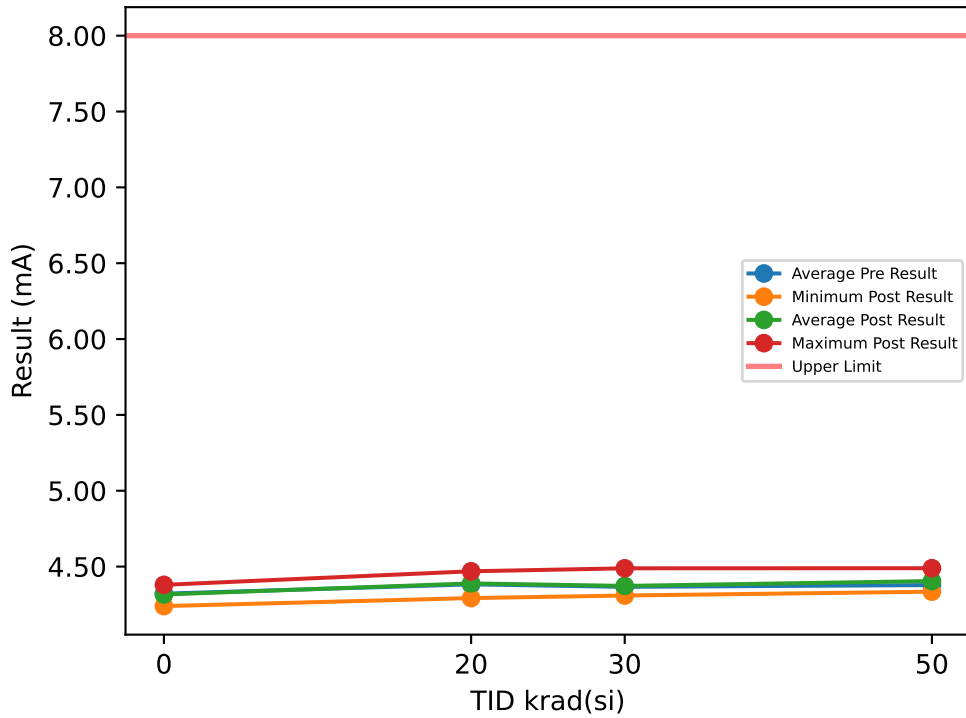
### Test Statistics (mA)

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	6.649	6.7679	6.8597	0.10792	6.6434	6.7614	6.8569	0.10852	-0.0109	-0.0064333	-0.0028	0.0041138
20	6.7841	6.9094	7.024	0.079311	6.8152	6.9265	7.0386	0.072806	-0.0196	0.0171	0.0445	0.023517
30	6.7584	6.8649	7.0992	0.10593	6.7693	6.8829	7.0747	0.10405	-0.0245	0.01799	0.0509	0.026439
50	6.7758	6.8831	7.0284	0.076237	6.7978	6.9372	7.081	0.091778	0.0186	0.05408	0.1021	0.029892



# Device Test: 14.7 IDD\_DIS|STANDBY CURRENT/IN/4.5/4.5/0/0/4.5/500kHz//@IDD\_DIS

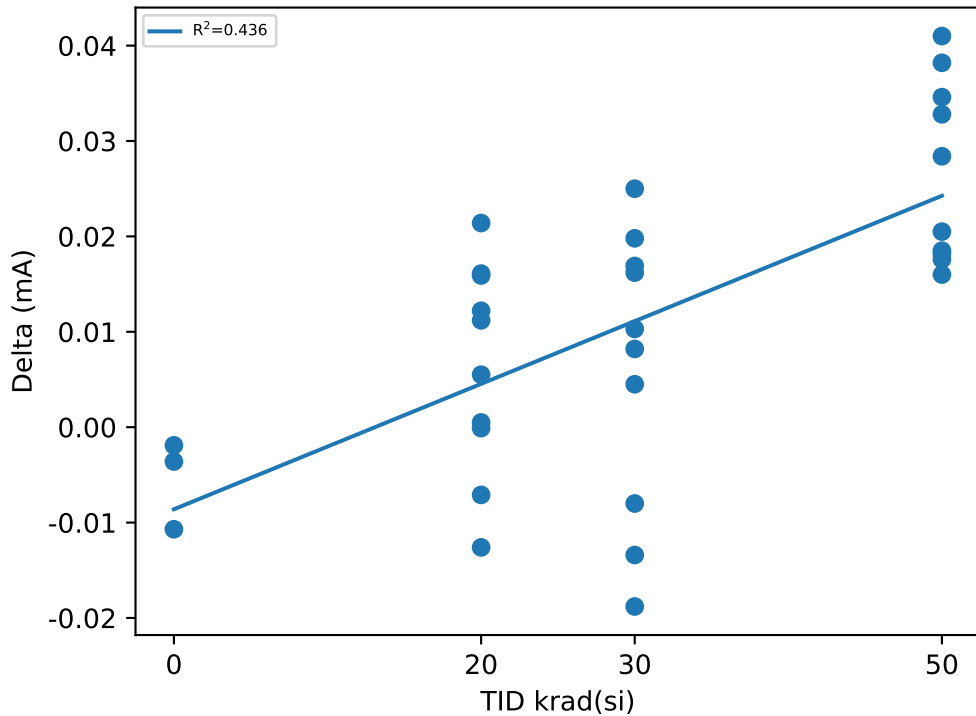
## TID vs Result Stats



## Test Results (Upper Limit = 8.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.4259	4.4473	0.0214
22	20	HDR BIAS	4.3764	4.3923	0.0159
23	20	HDR BIAS	4.3711	4.3833	0.0122
24	20	HDR BIAS	4.4254	4.4183	-0.0071
25	20	HDR BIAS	4.4342	4.4216	-0.0126
26	20	HDR UNBIAS	4.3678	4.3683	0.0005
27	20	HDR UNBIAS	4.4577	4.4689	0.0112
28	20	HDR UNBIAS	4.2868	4.2923	0.0055
29	20	HDR UNBIAS	4.3962	4.3961	-0.0001
30	20	HDR UNBIAS	4.2869	4.303	0.0161
31	30	HDR BIAS	4.343	4.3242	-0.0188
32	30	HDR BIAS	4.4379	4.4541	0.0162
33	30	HDR BIAS	4.3164	4.3414	0.025
34	30	HDR BIAS	4.2988	4.3091	0.0103
35	30	HDR BIAS	4.3414	4.3496	0.0082
36	30	HDR UNBIAS	4.3889	4.4058	0.0169
37	30	HDR UNBIAS	4.3627	4.3672	0.0045
38	30	HDR UNBIAS	4.3448	4.3646	0.0198
39	30	HDR UNBIAS	4.4965	4.4885	-0.008
40	30	HDR UNBIAS	4.3334	4.32	-0.0134
41	50	HDR BIAS	4.314	4.3345	0.0205
42	50	HDR BIAS	4.392	4.408	0.016
43	50	HDR BIAS	4.337	4.3555	0.0185
44	50	HDR BIAS	4.4145	4.4527	0.0382
45	50	HDR BIAS	4.4077	4.4253	0.0176
46	50	HDR UNBIAS	4.3885	4.4231	0.0346
47	50	HDR UNBIAS	4.3671	4.3853	0.0182
48	50	HDR UNBIAS	4.3305	4.3589	0.0284
49	50	HDR UNBIAS	4.4564	4.4892	0.0328
50	50	HDR UNBIAS	4.3716	4.4126	0.041
71	0	CORRELATION	4.3396	4.3289	-0.0107
72	0	CORRELATION	4.2429	4.2393	-0.0036
73	0	CORRELATION	4.3814	4.3795	-0.0019

## TID vs Post - Pre Exposure Delta

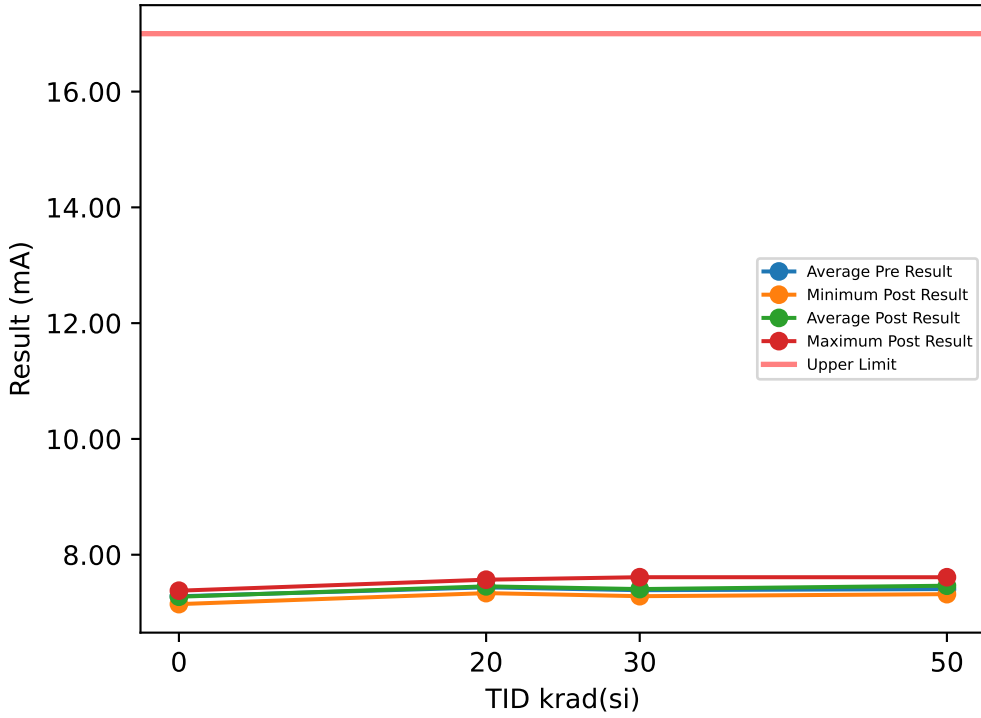


## Test Statistics (mA)

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	4.2429	4.3213	4.3814	0.07104	4.2393	4.3159	4.3795	0.070998	-0.0107	-0.0054	-0.0019	0.004668
20	4.2868	4.3828	4.4577	0.058613	4.2923	4.3891	4.4689	0.056738	-0.0126	0.0063	0.0214	0.01099
30	4.2988	4.3664	4.4965	0.059959	4.3091	4.3724	4.4885	0.059549	-0.0188	0.00607	0.025	0.014859
50	4.314	4.3779	4.4564	0.043282	4.3345	4.4045	4.4892	0.047261	0.016	0.02658	0.041	0.0095122

# Device Test: 14.8 IDD|SUPPLY CURRENT/IN/5/5/0/0/5/500kHz//@IDD\_ACT\_500K\_NOLOAD

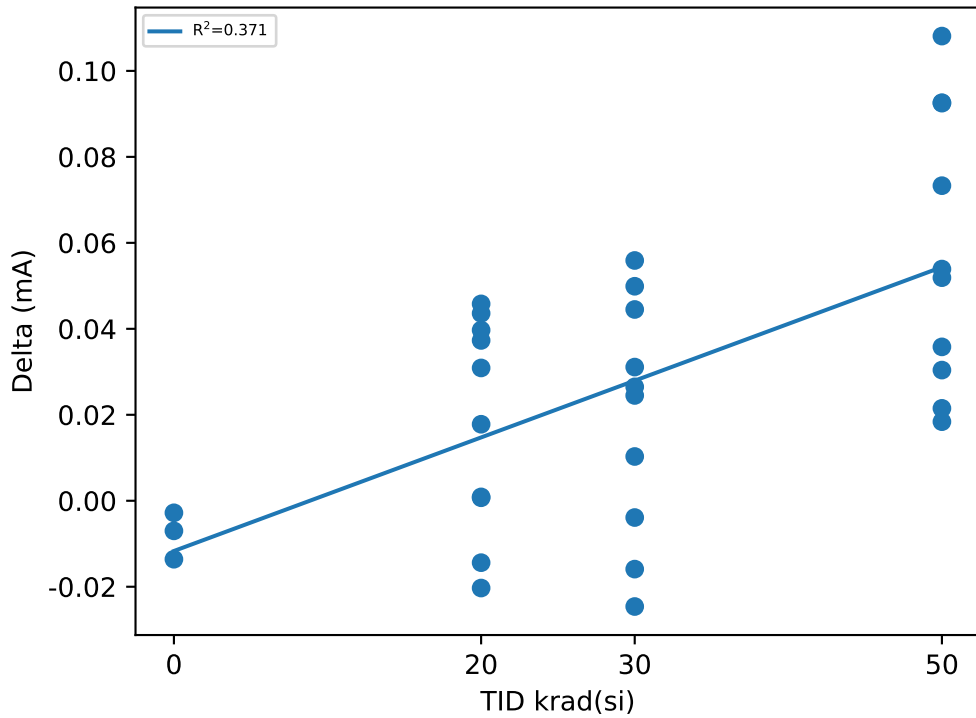
### TID vs Result Stats



### Test Results (Upper Limit = 17.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.4686	7.5144	0.0458
22	20	HDR BIAS	7.3865	7.4174	0.0309
23	20	HDR BIAS	7.4011	7.4408	0.0397
24	20	HDR BIAS	7.5052	7.4908	-0.0144
25	20	HDR BIAS	7.554	7.5337	-0.0203
26	20	HDR UNBIAS	7.4315	7.4324	0.0009
27	20	HDR UNBIAS	7.525	7.5686	0.0436
28	20	HDR UNBIAS	7.2996	7.3369	0.0373
29	20	HDR UNBIAS	7.4577	7.4584	0.0007
30	20	HDR UNBIAS	7.3292	7.347	0.0178
31	30	HDR BIAS	7.329	7.3131	-0.0159
32	30	HDR BIAS	7.5114	7.5425	0.0311
33	30	HDR BIAS	7.3519	7.4018	0.0499
34	30	HDR BIAS	7.2736	7.2839	0.0103
35	30	HDR BIAS	7.3276	7.3541	0.0265
36	30	HDR UNBIAS	7.4405	7.4964	0.0559
37	30	HDR UNBIAS	7.38	7.4045	0.0245
38	30	HDR UNBIAS	7.3268	7.3713	0.0445
39	30	HDR UNBIAS	7.6364	7.6118	-0.0246
40	30	HDR UNBIAS	7.2932	7.2893	-0.0039
41	50	HDR BIAS	7.2975	7.319	0.0215
42	50	HDR BIAS	7.3823	7.4007	0.0184
43	50	HDR BIAS	7.3412	7.3931	0.0519
44	50	HDR BIAS	7.4854	7.578	0.0926
45	50	HDR BIAS	7.4396	7.4754	0.0358
46	50	HDR UNBIAS	7.4233	7.5158	0.0925
47	50	HDR UNBIAS	7.3856	7.416	0.0304
48	50	HDR UNBIAS	7.3156	7.3889	0.0733
49	50	HDR UNBIAS	7.5573	7.6112	0.0539
50	50	HDR UNBIAS	7.4415	7.5496	0.1081
71	0	CORRELATION	7.3117	7.2981	-0.0136
72	0	CORRELATION	7.1539	7.1469	-0.007
73	0	CORRELATION	7.3815	7.3787	-0.0028

### TID vs Post - Pre Exposure Delta

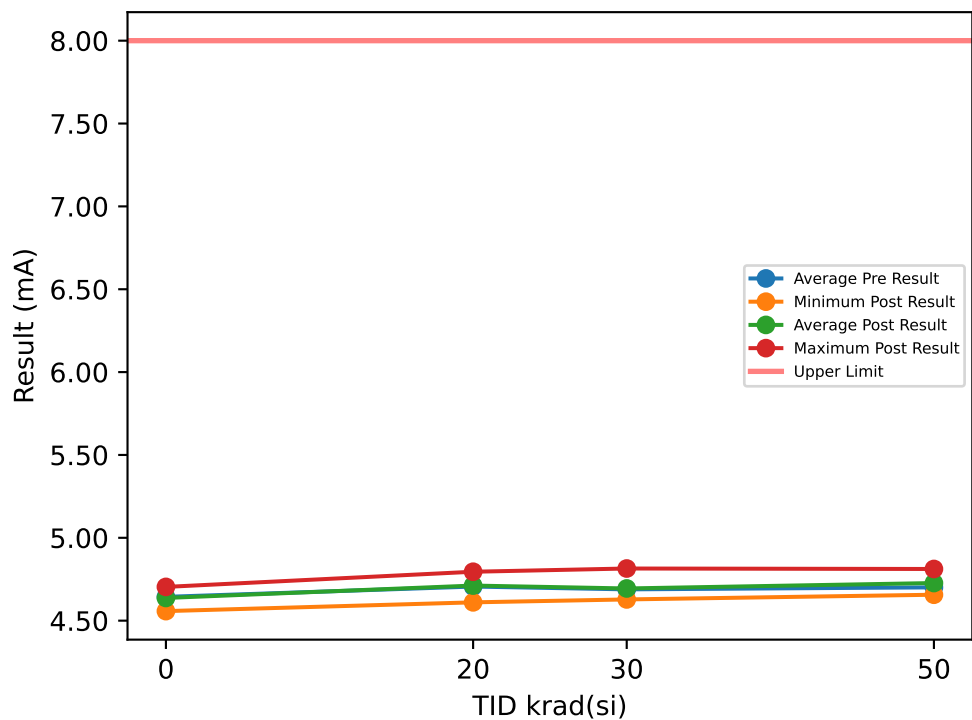


### Test Statistics (mA)

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	7.1539	7.2824	7.3815	0.1166	7.1469	7.2746	7.3787	0.11768	-0.0136	-0.0078	-0.0028	0.0054443
20	7.2996	7.4358	7.554	0.08291	7.3369	7.454	7.5686	0.075755	-0.0203	0.0182	0.0458	0.024824
30	7.2736	7.387	7.6364	0.11254	7.2839	7.4069	7.6118	0.11067	-0.0246	0.01983	0.0559	0.027712
50	7.2975	7.4069	7.5573	0.07958	7.319	7.4648	7.6112	0.095917	0.0184	0.05784	0.1081	0.032215

# Device Test: 14.9 IDD\_DIS|STANDBY CURRENT/IN/5/5/0/0/5/500kHz//@IDD\_DIS

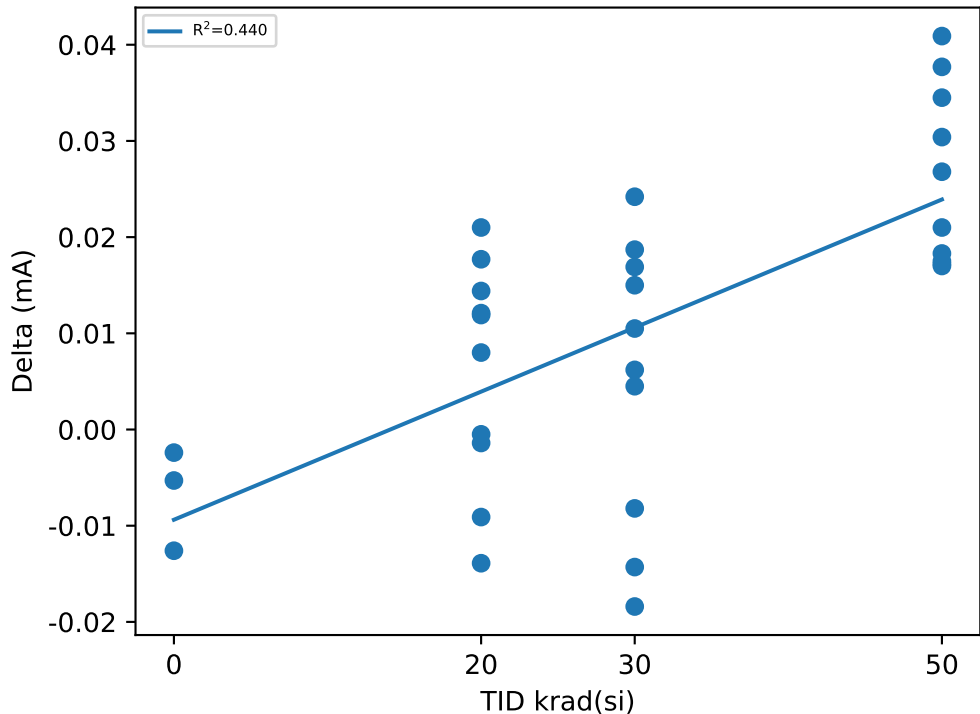
## TID vs Result Stats



## Test Results (Upper Limit = 8.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.7529	4.7739	0.021
22	20	HDR BIAS	4.6973	4.715	0.0177
23	20	HDR BIAS	4.6944	4.7065	0.0121
24	20	HDR BIAS	4.7521	4.743	-0.0091
25	20	HDR BIAS	4.7548	4.7409	-0.0139
26	20	HDR UNBIAS	4.6927	4.6922	-0.0005
27	20	HDR UNBIAS	4.7833	4.7952	0.0119
28	20	HDR UNBIAS	4.6025	4.6105	0.008
29	20	HDR UNBIAS	4.7211	4.7197	-0.0014
30	20	HDR UNBIAS	4.6068	4.6212	0.0144
31	30	HDR BIAS	4.6635	4.6451	-0.0184
32	30	HDR BIAS	4.764	4.779	0.015
33	30	HDR BIAS	4.6364	4.6606	0.0242
34	30	HDR BIAS	4.6176	4.6281	0.0105
35	30	HDR BIAS	4.6663	4.6725	0.0062
36	30	HDR UNBIAS	4.7113	4.7282	0.0169
37	30	HDR UNBIAS	4.6842	4.6887	0.0045
38	30	HDR UNBIAS	4.6682	4.6869	0.0187
39	30	HDR UNBIAS	4.8229	4.8147	-0.0082
40	30	HDR UNBIAS	4.6539	4.6396	-0.0143
41	50	HDR BIAS	4.6355	4.6565	0.021
42	50	HDR BIAS	4.7144	4.7316	0.0172
43	50	HDR BIAS	4.6608	4.6783	0.0175
44	50	HDR BIAS	4.7397	4.7774	0.0377
45	50	HDR BIAS	4.7323	4.7506	0.0183
46	50	HDR UNBIAS	4.7098	4.7443	0.0345
47	50	HDR UNBIAS	4.6872	4.7042	0.017
48	50	HDR UNBIAS	4.6537	4.6805	0.0268
49	50	HDR UNBIAS	4.7815	4.8119	0.0304
50	50	HDR UNBIAS	4.6942	4.7351	0.0409
71	0	CORRELATION	4.6623	4.6497	-0.0126
72	0	CORRELATION	4.5629	4.5576	-0.0053
73	0	CORRELATION	4.7061	4.7037	-0.0024

## TID vs Post - Pre Exposure Delta

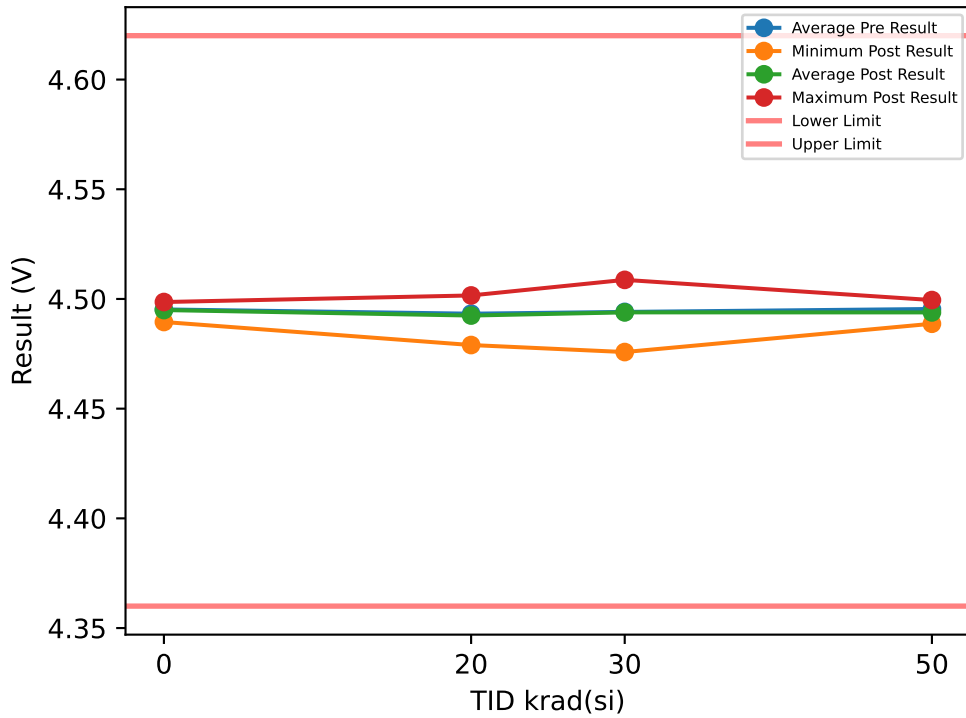


## Test Statistics (mA)

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	4.5629	4.6438	4.7061	0.073377	4.5576	4.637	4.7037	0.073873	-0.0126	-0.0067667	-0.0024	0.0052558
20	4.6025	4.7058	4.7833	0.061327	4.6105	4.7118	4.7952	0.059243	-0.0139	0.00602	0.021	0.011688
30	4.6176	4.6888	4.8229	0.062155	4.6281	4.6943	4.8147	0.061745	-0.0184	0.00551	0.0242	0.014612
50	4.6355	4.7009	4.7815	0.044215	4.6565	4.727	4.8119	0.047976	0.017	0.02613	0.0409	0.0092253

# Device Test: 15.1 VLDO|V\_VLDO/VLDO/5/5/0/0/4.5/500kHz//@V\_LDO\_4P5

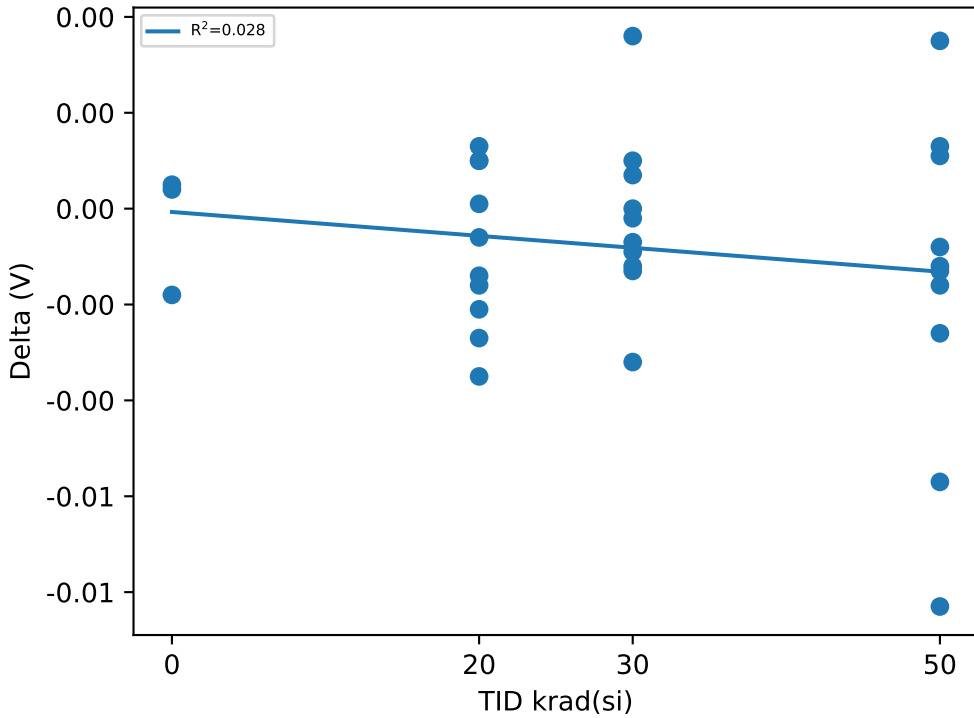
## TID vs Result Stats



## Test Results (Lower Limit = 4.36, Upper Limit = 4.62 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.5004	4.4969	-0.0035
22	20	HDR BIAS	4.4873	4.4886	0.0013
23	20	HDR BIAS	4.5006	4.5016	0.001
24	20	HDR BIAS	4.4911	4.4884	-0.0027
25	20	HDR BIAS	4.4996	4.5006	0.001
26	20	HDR UNBIAS	4.4999	4.4978	-0.0021
27	20	HDR UNBIAS	4.4888	4.4872	-0.0016
28	20	HDR UNBIAS	4.4789	4.479	0.0001
29	20	HDR UNBIAS	4.5009	4.4995	-0.0014
30	20	HDR UNBIAS	4.4854	4.4848	-0.0006
31	30	HDR BIAS	4.5009	4.5	-0.0009
32	30	HDR BIAS	4.5013	4.5011	-0.0002
33	30	HDR BIAS	4.479	4.4758	-0.0032
34	30	HDR BIAS	4.4931	4.4931	0
35	30	HDR BIAS	4.4831	4.4867	0.0036
36	30	HDR UNBIAS	4.4888	4.4895	0.0007
37	30	HDR UNBIAS	4.51	4.5087	-0.0013
38	30	HDR UNBIAS	4.4949	4.4937	-0.0012
39	30	HDR UNBIAS	4.4957	4.4967	0.001
40	30	HDR UNBIAS	4.4942	4.4935	-0.0007
41	50	HDR BIAS	4.4946	4.4889	-0.0057
42	50	HDR BIAS	4.4938	4.493	-0.0008
43	50	HDR BIAS	4.4959	4.4947	-0.0012
44	50	HDR BIAS	4.4927	4.4938	0.0011
45	50	HDR BIAS	4.4903	4.4887	-0.0016
46	50	HDR UNBIAS	4.496	4.4995	0.0035
47	50	HDR UNBIAS	4.4966	4.4953	-0.0013
48	50	HDR UNBIAS	4.4937	4.4911	-0.0026
49	50	HDR UNBIAS	4.5026	4.4943	-0.0083
50	50	HDR UNBIAS	4.4981	4.4994	0.0013
71	0	CORRELATION	4.4913	4.4895	-0.0018
72	0	CORRELATION	4.4982	4.4986	0.0004
73	0	CORRELATION	4.4962	4.4967	0.0005

## TID vs Post - Pre Exposure Delta

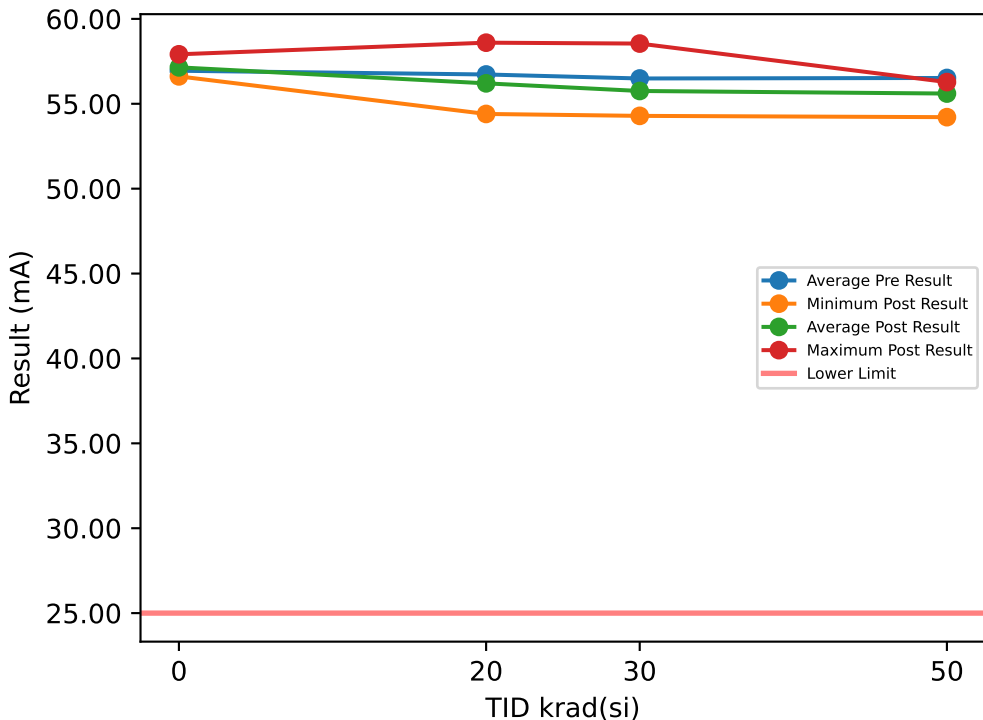


## Test Statistics (V)

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	4.4913	4.4952	4.4982	0.0035501	4.4895	4.4949	4.4986	0.0048003	-0.0018	-0.0003	0.0005	0.0013
20	4.4789	4.4933	4.5009	0.007997	4.479	4.4924	4.5016	0.0077923	-0.0035	-0.00085	0.0013	0.0016768
30	4.479	4.4941	4.51	0.0090197	4.4758	4.4939	4.5087	0.0089168	-0.0032	-0.00022	0.0036	0.001785
50	4.4903	4.4954	4.5026	0.0033427	4.4887	4.4939	4.4995	0.0037277	-0.0083	-0.00156	0.0035	0.0034203

# Device Test: 15.10 VLDO|ILIM\_VLDO\_SWEEP/VLDO/5.5/5.5/0/0/5/500kHz//@V\_LDO\_ILIM\_5\_PLUS\_0P5

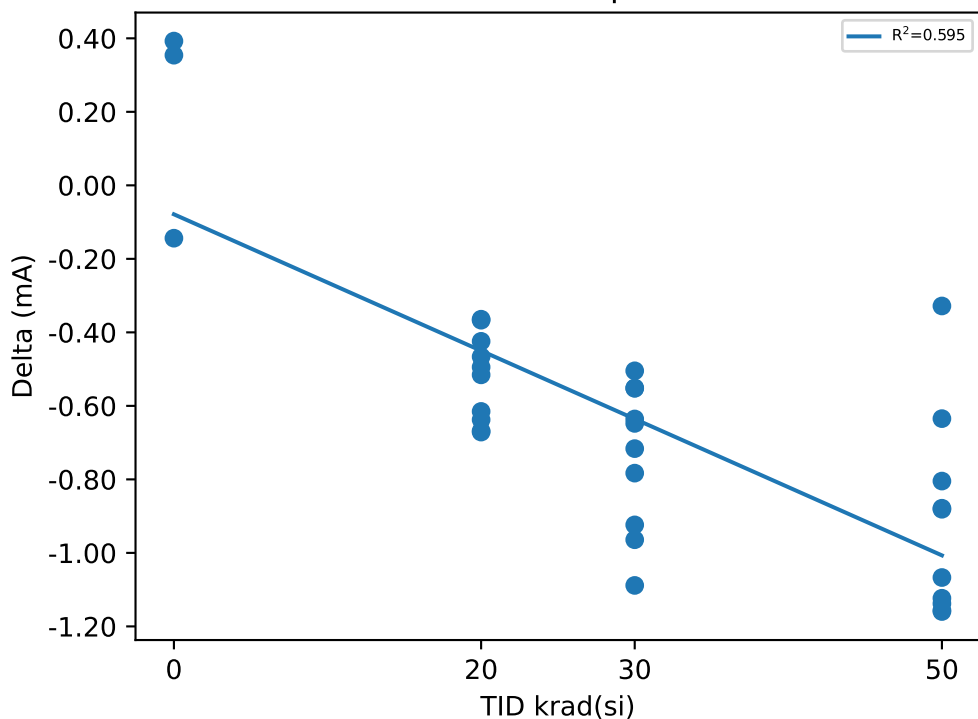
### TID vs Result Stats



### Test Results (Lower Limit = 25.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	55.981	55.617	-0.3642
22	20	HDR BIAS	57.287	56.65	-0.6377
23	20	HDR BIAS	55.069	54.401	-0.6681
24	20	HDR BIAS	57.156	56.69	-0.4662
25	20	HDR BIAS	56.442	55.77	-0.6713
26	20	HDR UNBIAS	56.186	55.819	-0.3669
27	20	HDR UNBIAS	56.717	56.201	-0.5156
28	20	HDR UNBIAS	59.093	58.599	-0.4945
29	20	HDR UNBIAS	55.3	54.876	-0.4244
30	20	HDR UNBIAS	58.028	57.413	-0.6151
31	30	HDR BIAS	54.941	54.39	-0.5512
32	30	HDR BIAS	55.502	54.719	-0.783
33	30	HDR BIAS	59.181	58.546	-0.6356
34	30	HDR BIAS	57.935	57.218	-0.7163
35	30	HDR BIAS	57.065	55.977	-1.0885
36	30	HDR UNBIAS	56.609	55.685	-0.9238
37	30	HDR UNBIAS	54.84	54.287	-0.5523
38	30	HDR UNBIAS	55.756	55.108	-0.6477
39	30	HDR UNBIAS	56.71	55.746	-0.9642
40	30	HDR UNBIAS	56.363	55.858	-0.5046
41	50	HDR BIAS	56.77	56.135	-0.6347
42	50	HDR BIAS	56.194	55.071	-1.1234
43	50	HDR BIAS	57.156	56.278	-0.8785
44	50	HDR BIAS	56.752	55.614	-1.1379
45	50	HDR BIAS	57.105	55.946	-1.1595
46	50	HDR UNBIAS	55.279	54.212	-1.067
47	50	HDR UNBIAS	56.532	55.727	-0.8046
48	50	HDR UNBIAS	56.662	55.781	-0.8813
49	50	HDR UNBIAS	56.052	55.724	-0.3282
50	50	HDR UNBIAS	56.696	55.54	-1.156
71	0	CORRELATION	57.522	57.914	0.3925
72	0	CORRELATION	57.053	56.909	-0.1438
73	0	CORRELATION	56.26	56.614	0.3541

### TID vs Post - Pre Exposure Delta

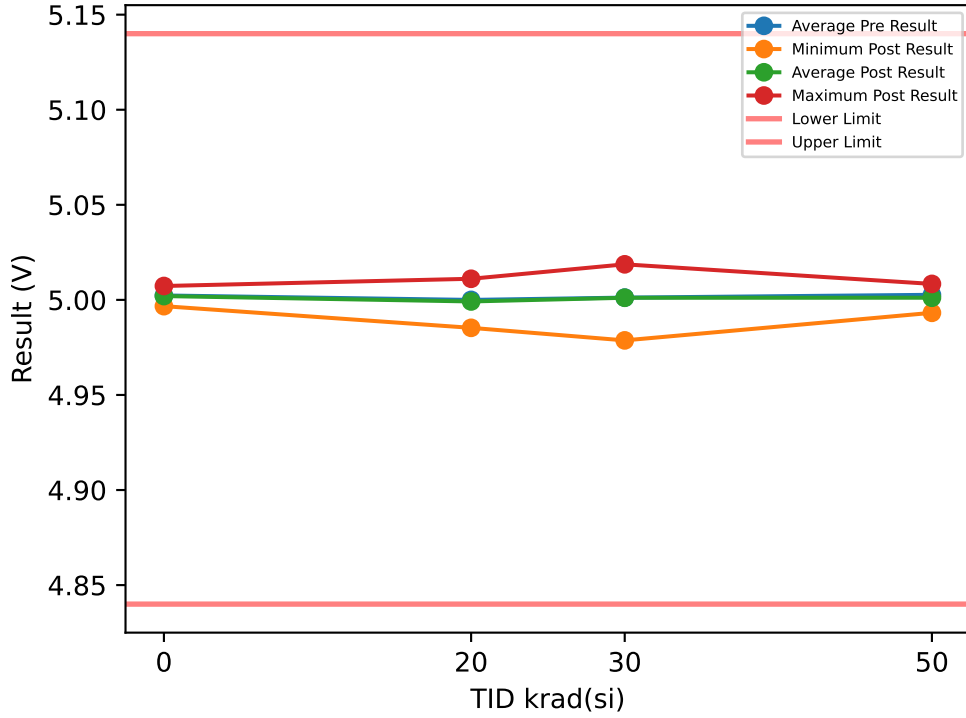


### Test Statistics (mA)

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	56.26	56.945	57.522	0.63761	56.614	57.146	57.914	0.68145	-0.1438	0.20093	0.3925	0.29916
20	55.069	56.726	59.093	1.225	54.401	56.203	58.599	1.2169	-0.6713	-0.5224	-0.3642	0.11929
30	54.84	56.49	59.181	1.349	54.287	55.754	58.546	1.3125	-1.0885	-0.73672	-0.5046	0.19819
50	55.279	56.52	57.156	0.55593	54.212	55.603	56.278	0.59078	-1.1595	-0.91711	-0.3282	0.27317

# Device Test: 15.11 VLDO|V\_VLDO/VLDO/12/12/0/0/5/500kHz//@V\_LDO\_5

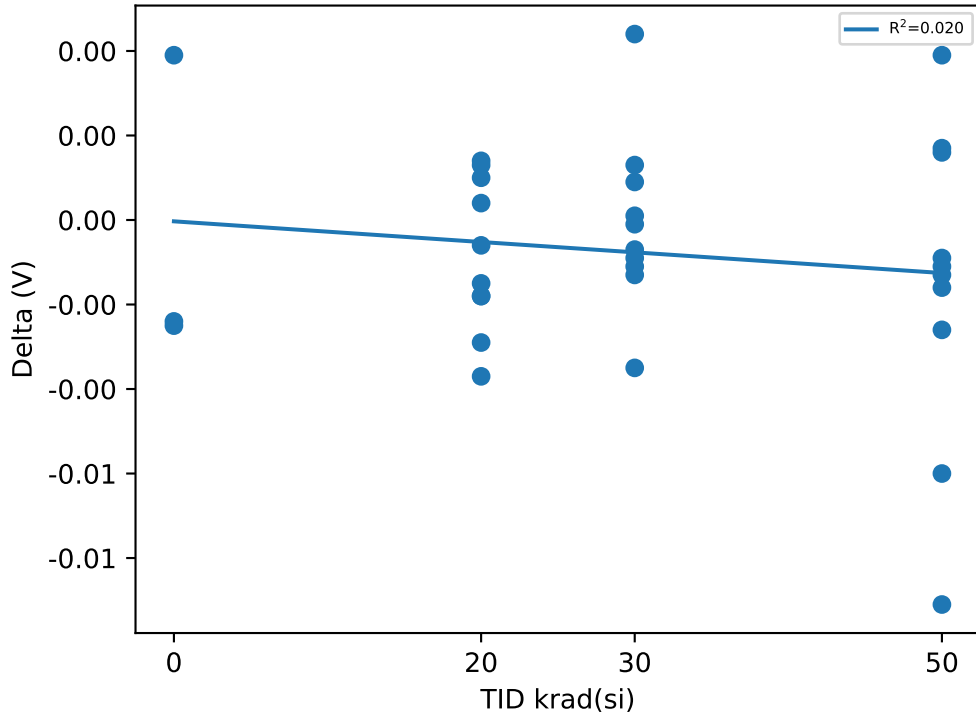
### TID vs Result Stats



### Test Results (Lower Limit = 4.84, Upper Limit = 5.14 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5.0059	5.0022	-0.0037
22	20	HDR BIAS	4.9948	4.9961	0.0013
23	20	HDR BIAS	5.0097	5.0111	0.0014
24	20	HDR BIAS	4.9956	4.9927	-0.0029
25	20	HDR BIAS	5.0082	5.0092	0.001
26	20	HDR UNBIAS	5.0085	5.0067	-0.0018
27	20	HDR UNBIAS	4.9931	4.9913	-0.0018
28	20	HDR UNBIAS	4.9849	4.9853	0.0004
29	20	HDR UNBIAS	5.01	5.0085	-0.0015
30	20	HDR UNBIAS	4.9892	4.9886	-0.0006
31	30	HDR BIAS	5.0095	5.0086	-0.0009
32	30	HDR BIAS	5.0104	5.0103	-0.0001
33	30	HDR BIAS	4.9822	4.9787	-0.0035
34	30	HDR BIAS	5.0008	5.0009	0.0001
35	30	HDR BIAS	4.99	4.9944	0.0044
36	30	HDR UNBIAS	4.9931	4.994	0.0009
37	30	HDR UNBIAS	5.02	5.0187	-0.0013
38	30	HDR UNBIAS	5.0032	5.0021	-0.0011
39	30	HDR UNBIAS	5.0007	5.002	0.0013
40	30	HDR UNBIAS	5.0021	5.0014	-0.0007
41	50	HDR BIAS	5.0028	4.9968	-0.006
42	50	HDR BIAS	4.9985	4.9976	-0.0009
43	50	HDR BIAS	5.0041	5.0028	-0.0013
44	50	HDR BIAS	5.0007	5.0023	0.0016
45	50	HDR BIAS	4.9948	4.9932	-0.0016
46	50	HDR UNBIAS	5.0041	5.008	0.0039
47	50	HDR UNBIAS	5.005	5.0039	-0.0011
48	50	HDR UNBIAS	4.9984	4.9958	-0.0026
49	50	HDR UNBIAS	5.0116	5.0025	-0.0091
50	50	HDR UNBIAS	5.0067	5.0084	0.0017
71	0	CORRELATION	4.9992	4.9967	-0.0025
72	0	CORRELATION	5.0034	5.0073	0.0039
73	0	CORRELATION	5.0044	5.002	-0.0024

### TID vs Post - Pre Exposure Delta



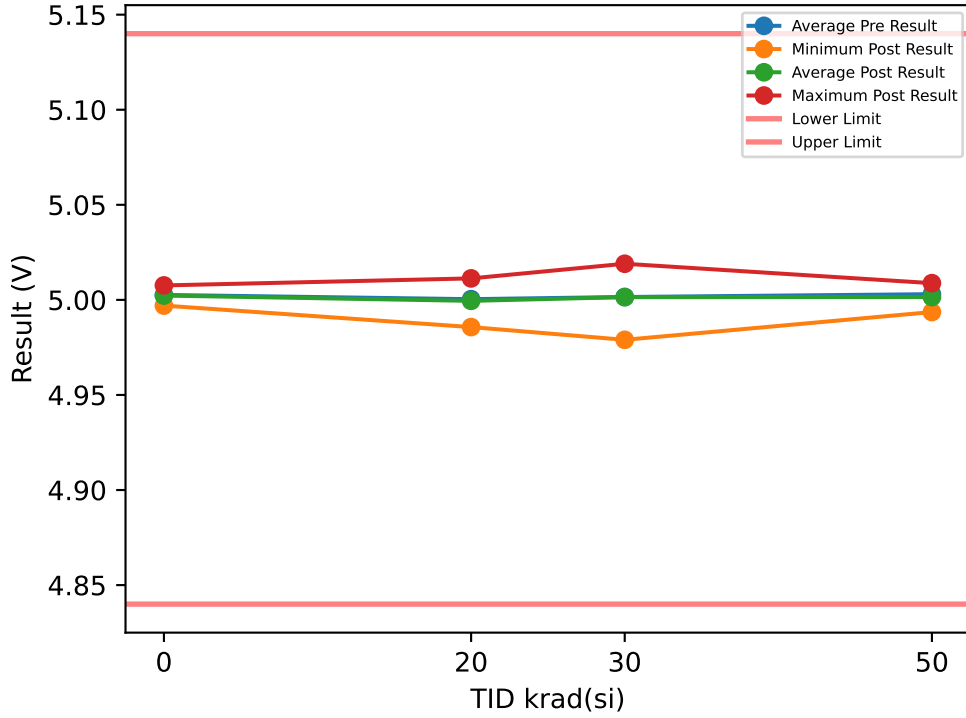
### Test Statistics (V)

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	4.9992	5.0023	5.0044	0.0027592	4.9967	5.002	5.0073	0.0053	-0.0025	-0.00033333	0.0039	0.0036665
20	4.9849	5	5.01	0.0094695	4.9853	4.9992	5.0111	0.0095054	-0.0037	-0.00082	0.0014	0.0018036
30	4.9822	5.0012	5.02	0.010874	4.9787	5.0011	5.0187	0.010799	-0.0035	-9e-05	0.0044	0.0020615
50	4.9948	5.0027	5.0116	0.0047954	4.9932	5.0011	5.0084	0.0051236	-0.0091	-0.00154	0.0039	0.0037828



# Device Test: 15.12 VLDO|V\_VLDO/VLDO/14/14/0/0/5/500kHz//@V\_LDO\_5

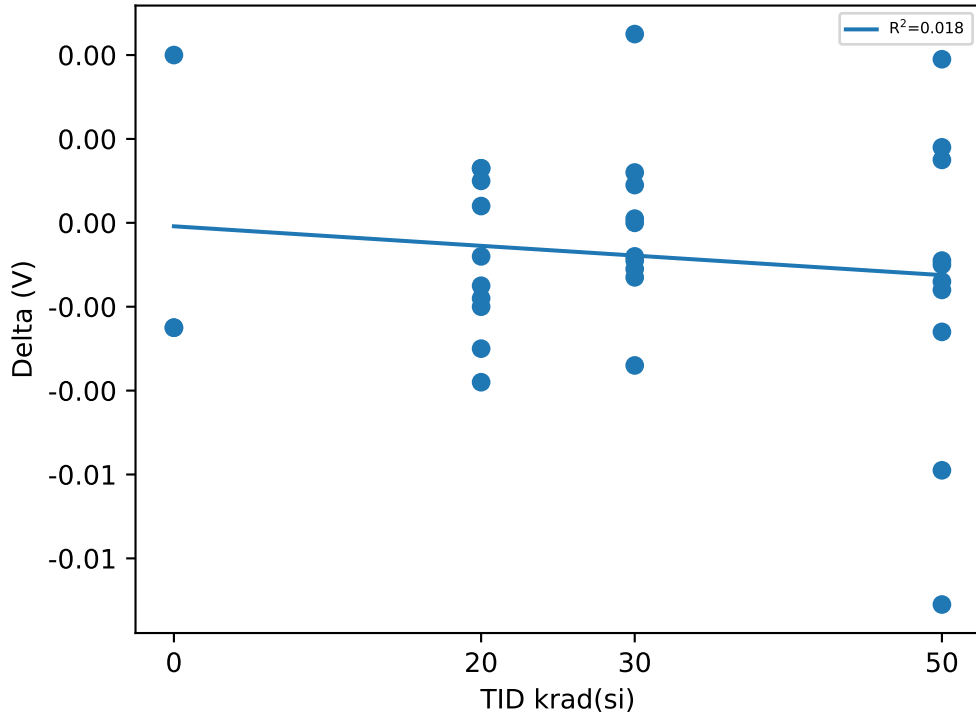
## TID vs Result Stats



## Test Results (Lower Limit = 4.84, Upper Limit = 5.14 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5.0063	5.0025	-0.0038
22	20	HDR BIAS	4.9952	4.9965	0.0013
23	20	HDR BIAS	5.01	5.0113	0.0013
24	20	HDR BIAS	4.996	4.993	-0.003
25	20	HDR BIAS	5.0087	5.0097	0.001
26	20	HDR UNBIAS	5.0089	5.0069	-0.002
27	20	HDR UNBIAS	4.9935	4.9917	-0.0018
28	20	HDR UNBIAS	4.9853	4.9857	0.0004
29	20	HDR UNBIAS	5.0103	5.0088	-0.0015
30	20	HDR UNBIAS	4.9896	4.9888	-0.0008
31	30	HDR BIAS	5.0098	5.0089	-0.0009
32	30	HDR BIAS	5.0106	5.0106	0
33	30	HDR BIAS	4.9824	4.979	-0.0034
34	30	HDR BIAS	5.0012	5.0013	0.0001
35	30	HDR BIAS	4.9902	4.9947	0.0045
36	30	HDR UNBIAS	4.9935	4.9944	0.0009
37	30	HDR UNBIAS	5.0203	5.019	-0.0013
38	30	HDR UNBIAS	5.0036	5.0025	-0.0011
39	30	HDR UNBIAS	5.0011	5.0023	0.0012
40	30	HDR UNBIAS	5.0025	5.0017	-0.0008
41	50	HDR BIAS	5.003	4.9971	-0.0059
42	50	HDR BIAS	4.9988	4.9979	-0.0009
43	50	HDR BIAS	5.0045	5.0031	-0.0014
44	50	HDR BIAS	5.0011	5.0026	0.0015
45	50	HDR BIAS	4.9952	4.9936	-0.0016
46	50	HDR UNBIAS	5.0044	5.0083	0.0039
47	50	HDR UNBIAS	5.0053	5.0043	-0.001
48	50	HDR UNBIAS	4.9987	4.9961	-0.0026
49	50	HDR UNBIAS	5.012	5.0029	-0.0091
50	50	HDR UNBIAS	5.007	5.0088	0.0018
71	0	CORRELATION	4.9995	4.997	-0.0025
72	0	CORRELATION	5.0036	5.0076	0.004
73	0	CORRELATION	5.0047	5.0022	-0.0025

## TID vs Post - Pre Exposure Delta

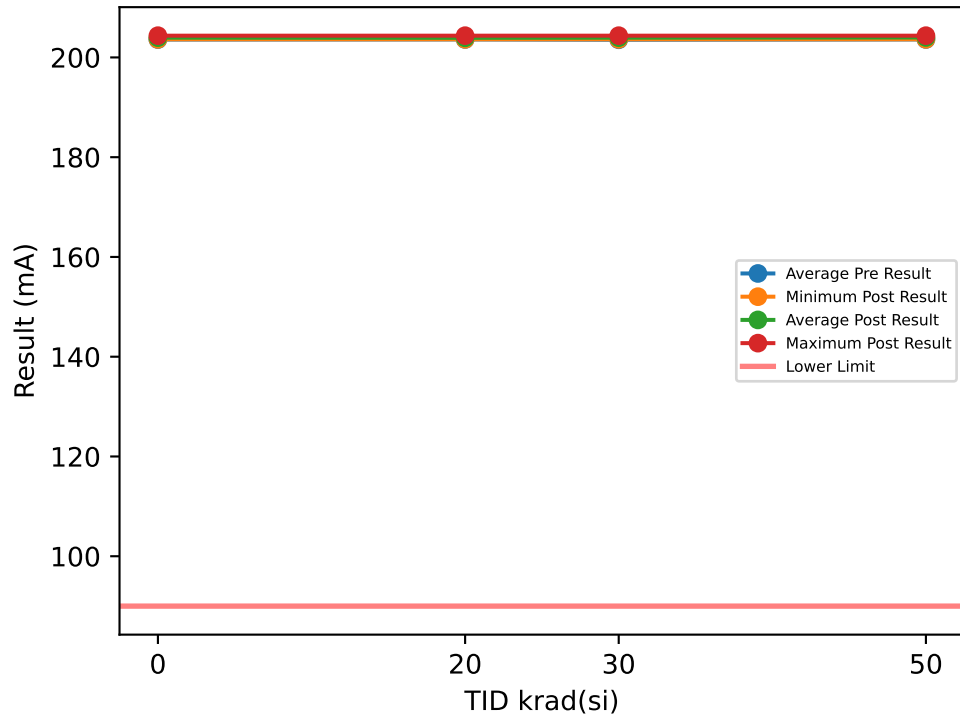


## Test Statistics (V)

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	4.9995	5.0026	5.0047	0.0027404	4.997	5.0023	5.0076	0.0053003	-0.0025	-0.00033333	0.004	0.0037528
20	4.9853	5.0004	5.0103	0.0094562	4.9857	4.9995	5.0113	0.00949	-0.0038	-0.00089	0.0013	0.0018315
30	4.9824	5.0015	5.0203	0.01089	4.979	5.0014	5.019	0.010793	-0.0034	-8e-05	0.0045	0.0020644
50	4.9952	5.003	5.012	0.0047968	4.9936	5.0015	5.0088	0.0051314	-0.0091	-0.00153	0.0039	0.0037713



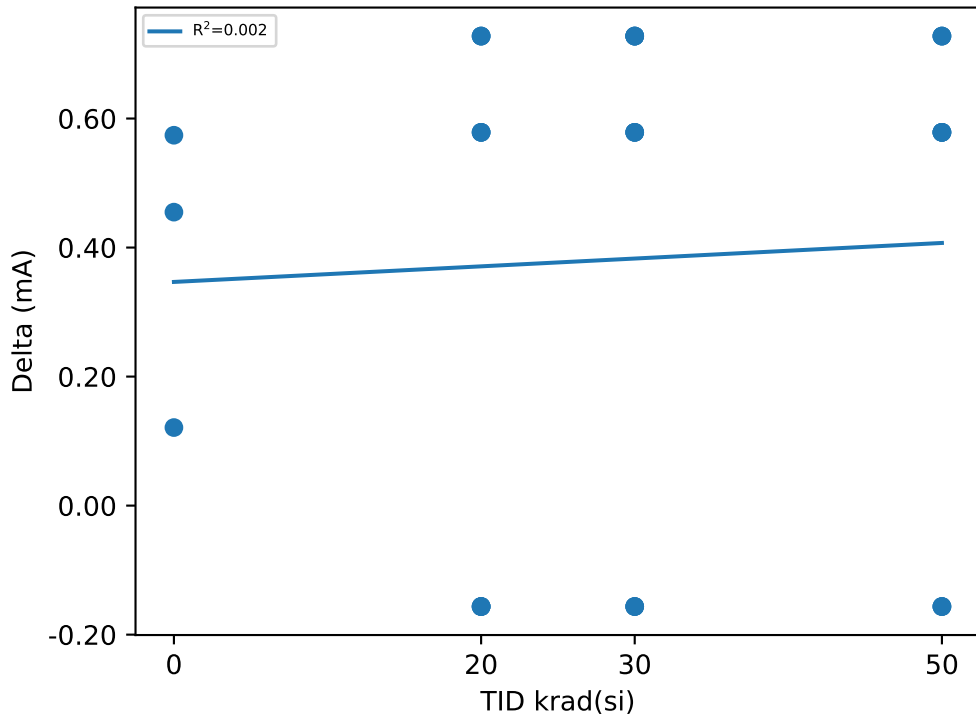
TID vs Result Stats



Test Results (Lower Limit = 90.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	203.79	203.63	-0.1564
22	20	HDR BIAS	203.18	203.9	0.7278
23	20	HDR BIAS	203.78	204.36	0.5786
24	20	HDR BIAS	203.79	203.63	-0.1564
25	20	HDR BIAS	203.18	203.9	0.7278
26	20	HDR UNBIAS	203.78	204.36	0.5786
27	20	HDR UNBIAS	203.79	203.63	-0.1564
28	20	HDR UNBIAS	203.18	203.9	0.7278
29	20	HDR UNBIAS	203.78	204.36	0.5786
30	20	HDR UNBIAS	203.79	203.63	-0.1564
31	30	HDR BIAS	203.18	203.9	0.7278
32	30	HDR BIAS	203.78	204.36	0.5786
33	30	HDR BIAS	203.79	203.63	-0.1564
34	30	HDR BIAS	203.18	203.9	0.7278
35	30	HDR BIAS	203.78	204.36	0.5786
36	30	HDR UNBIAS	203.79	203.63	-0.1564
37	30	HDR UNBIAS	203.18	203.9	0.7278
38	30	HDR UNBIAS	203.78	204.36	0.5786
39	30	HDR UNBIAS	203.79	203.63	-0.1564
40	30	HDR UNBIAS	203.18	203.9	0.7278
41	50	HDR BIAS	203.78	204.36	0.5786
42	50	HDR BIAS	203.79	203.63	-0.1564
43	50	HDR BIAS	203.18	203.9	0.7278
44	50	HDR BIAS	203.78	204.36	0.5786
45	50	HDR BIAS	203.79	203.63	-0.1564
46	50	HDR UNBIAS	203.18	203.9	0.7278
47	50	HDR UNBIAS	203.78	204.36	0.5786
48	50	HDR UNBIAS	203.79	203.63	-0.1564
49	50	HDR UNBIAS	203.18	203.9	0.7278
50	50	HDR UNBIAS	203.78	204.36	0.5786
71	0	CORRELATION	203.78	203.9	0.121
72	0	CORRELATION	203.79	204.36	0.5741
73	0	CORRELATION	203.18	203.63	0.4549

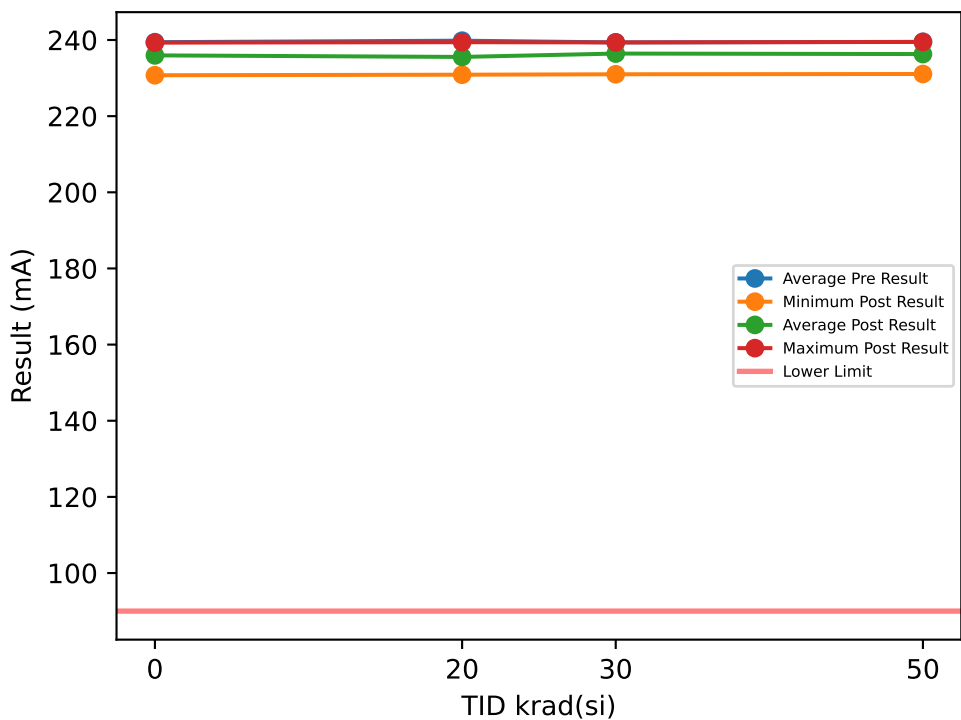
TID vs Post - Pre Exposure Delta



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	203.18	203.58	203.79	0.35164	203.63	203.96	204.36	0.36912	0.121	0.38333	0.5741	0.23487
20	203.18	203.6	203.79	0.29436	203.63	203.93	204.36	0.31941	-0.1564	0.32936	0.7278	0.42249
30	203.18	203.54	203.79	0.31452	203.63	203.96	204.36	0.30201	-0.1564	0.41778	0.7278	0.40154
50	203.18	203.6	203.79	0.29405	203.63	204	204.36	0.32637	-0.1564	0.40286	0.7278	0.39138

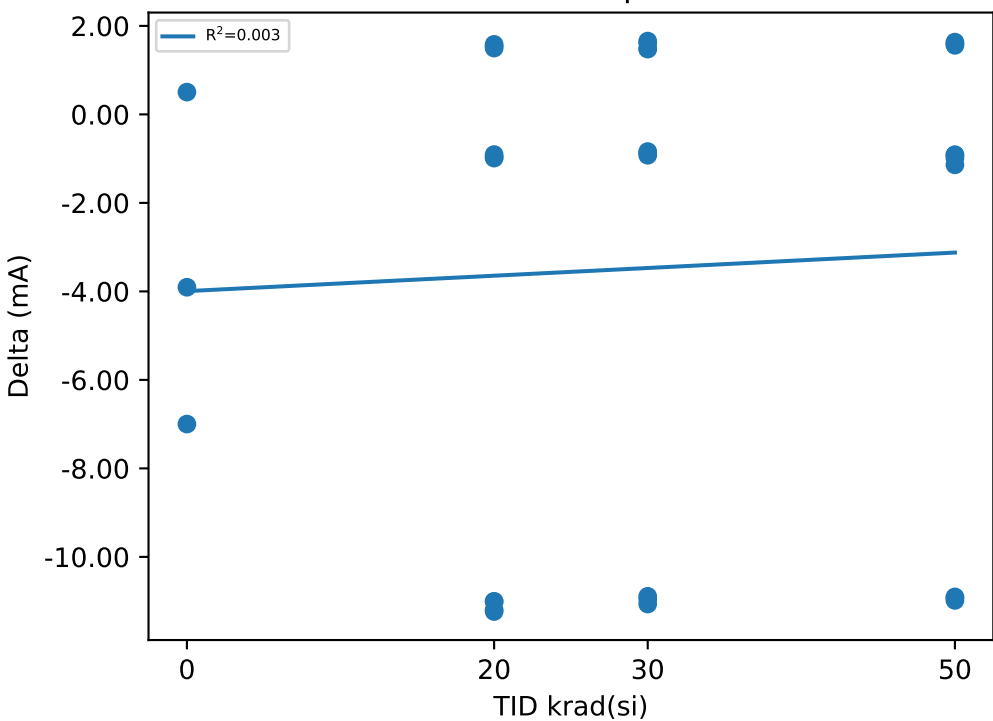
TID vs Result Stats



Test Results (Lower Limit = 90.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	242.12	230.89	-11.234
22	20	HDR BIAS	237.81	239.34	1.5388
23	20	HDR BIAS	238.82	237.86	-0.9668
24	20	HDR BIAS	242.14	230.95	-11.197
25	20	HDR BIAS	237.84	239.42	1.5826
26	20	HDR UNBIAS	238.8	237.82	-0.9878
27	20	HDR UNBIAS	242.11	231.1	-11.01
28	20	HDR UNBIAS	237.78	239.28	1.499
29	20	HDR UNBIAS	238.8	237.89	-0.9076
30	20	HDR UNBIAS	241.99	230.99	-11.004
31	30	HDR BIAS	237.71	239.36	1.6569
32	30	HDR BIAS	238.81	237.93	-0.879
33	30	HDR BIAS	242.06	231	-11.065
34	30	HDR BIAS	237.74	239.36	1.6138
35	30	HDR BIAS	238.7	237.86	-0.8399
36	30	HDR UNBIAS	242.08	231.13	-10.953
37	30	HDR UNBIAS	237.84	239.32	1.4766
38	30	HDR UNBIAS	238.79	237.87	-0.9231
39	30	HDR UNBIAS	242.12	231.23	-10.891
40	30	HDR UNBIAS	237.82	239.3	1.4836
41	50	HDR BIAS	238.76	237.85	-0.9119
42	50	HDR BIAS	242.12	231.2	-10.921
43	50	HDR BIAS	237.83	239.43	1.601
44	50	HDR BIAS	238.87	237.88	-0.9882
45	50	HDR BIAS	242.03	231.13	-10.905
46	50	HDR UNBIAS	237.81	239.37	1.5605
47	50	HDR UNBIAS	238.87	237.73	-1.14
48	50	HDR UNBIAS	242.05	231.07	-10.983
49	50	HDR UNBIAS	237.86	239.49	1.6336
50	50	HDR UNBIAS	238.85	237.93	-0.9175
71	0	CORRELATION	238.81	239.31	0.504
72	0	CORRELATION	241.74	237.83	-3.9061
73	0	CORRELATION	237.74	230.74	-6.9982

TID vs Post - Pre Exposure Delta

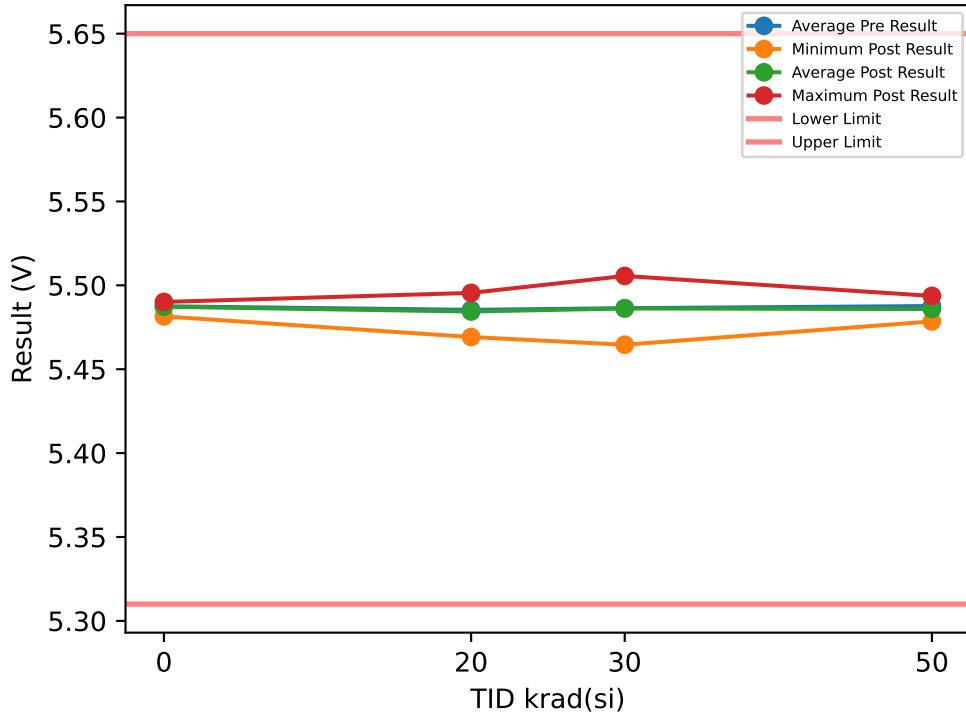


Test Statistics (mA)

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	237.74	239.43	241.74	2.0701	230.74	235.96	239.31	4.5804	-6.9982	-3.4668	0.504	3.7703
20	237.78	239.82	242.14	1.9958	230.89	235.55	239.42	3.9836	-11.234	-4.2688	1.5826	5.9771
30	237.71	239.37	242.12	1.9259	231	236.44	239.36	3.7247	-11.065	-2.932	1.6569	5.6481
50	237.81	239.51	242.12	1.8234	231.07	236.31	239.49	3.6379	-10.983	-3.1972	1.6336	5.4591

# Device Test: 15.15 VLDO|V\_VLDO/VLDO/6/6/0/0/5.5/500kHz//@V\_LDO\_5P5

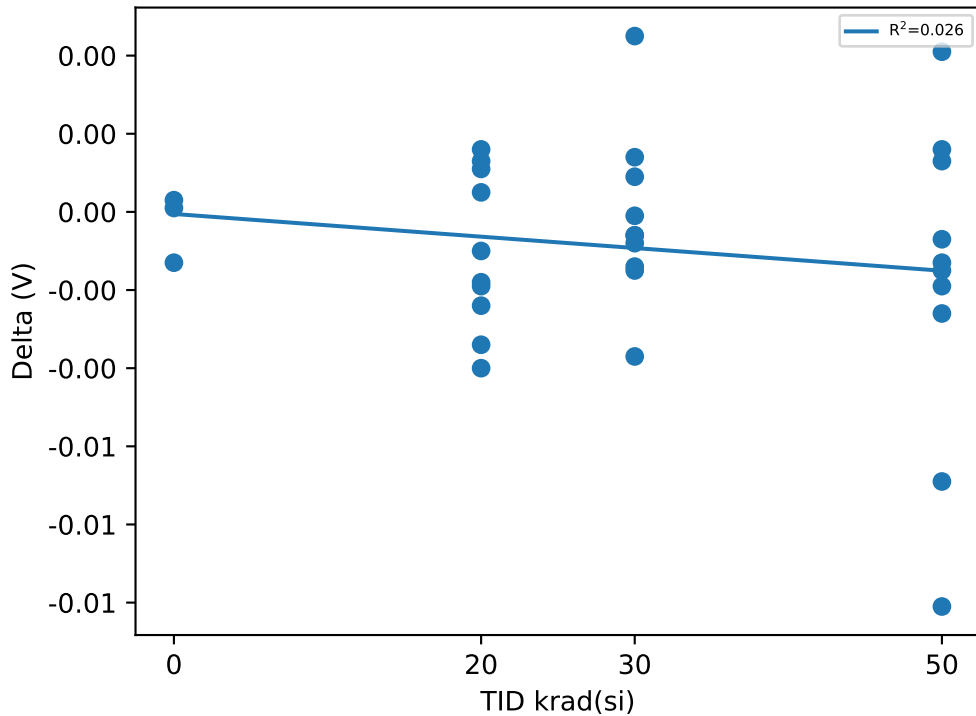
### TID vs Result Stats



### Test Results (Lower Limit = 5.31, Upper Limit = 5.65 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5.4943	5.4903	-0.004
22	20	HDR BIAS	5.4794	5.481	0.0016
23	20	HDR BIAS	5.493	5.4941	0.0011
24	20	HDR BIAS	5.4832	5.4798	-0.0034
25	20	HDR BIAS	5.4942	5.4955	0.0013
26	20	HDR UNBIAS	5.4917	5.4893	-0.0024
27	20	HDR UNBIAS	5.4802	5.4784	-0.0018
28	20	HDR UNBIAS	5.4687	5.4692	0.0005
29	20	HDR UNBIAS	5.4931	5.4912	-0.0019
30	20	HDR UNBIAS	5.4761	5.4751	-0.001
31	30	HDR BIAS	5.4953	5.4945	-0.0008
32	30	HDR BIAS	5.4939	5.4933	-0.0006
33	30	HDR BIAS	5.4683	5.4646	-0.0037
34	30	HDR BIAS	5.4861	5.486	-0.0001
35	30	HDR BIAS	5.4714	5.4759	0.0045
36	30	HDR UNBIAS	5.4802	5.4811	0.0009
37	30	HDR UNBIAS	5.507	5.5056	-0.0014
38	30	HDR UNBIAS	5.4859	5.4844	-0.0015
39	30	HDR UNBIAS	5.4885	5.4899	0.0014
40	30	HDR UNBIAS	5.4873	5.4867	-0.0006
41	50	HDR BIAS	5.4854	5.4785	-0.0069
42	50	HDR BIAS	5.4861	5.4854	-0.0007
43	50	HDR BIAS	5.4895	5.488	-0.0015
44	50	HDR BIAS	5.483	5.4843	0.0013
45	50	HDR BIAS	5.4821	5.4802	-0.0019
46	50	HDR UNBIAS	5.4896	5.4937	0.0041
47	50	HDR UNBIAS	5.4876	5.4863	-0.0013
48	50	HDR UNBIAS	5.4861	5.4835	-0.0026
49	50	HDR UNBIAS	5.4979	5.4878	-0.0101
50	50	HDR UNBIAS	5.4895	5.4911	0.0016
71	0	CORRELATION	5.4812	5.4815	0.0003
72	0	CORRELATION	5.4914	5.4901	-0.0013
73	0	CORRELATION	5.49	5.4901	0.0001

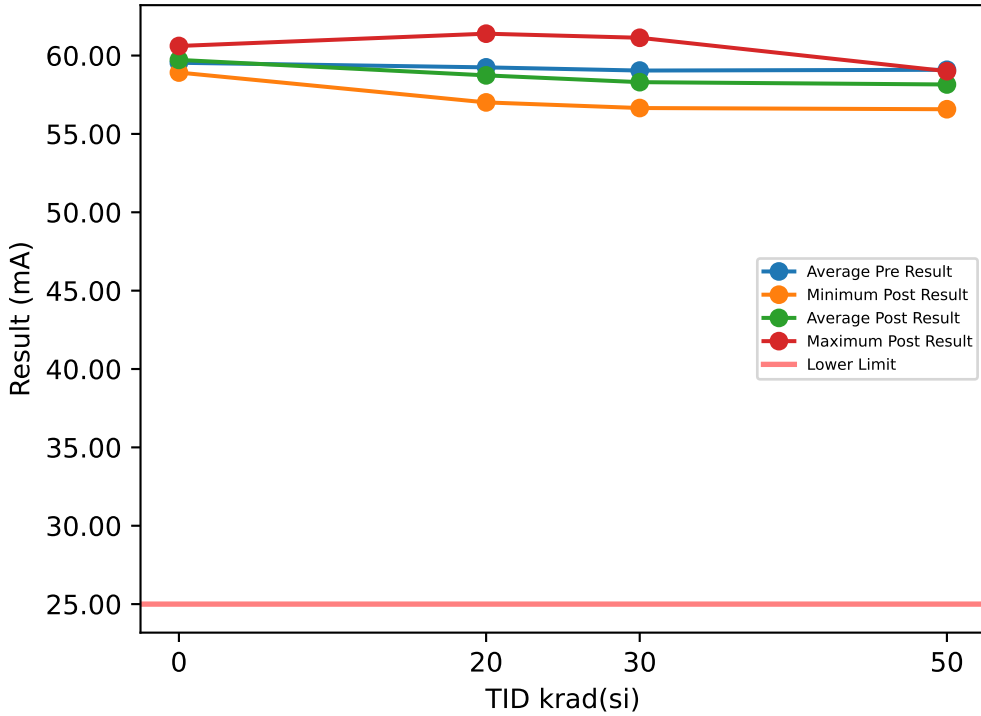
### TID vs Post - Pre Exposure Delta



### 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	5.4812	5.4875	5.4914	0.0055293	5.4815	5.4872	5.4901	0.0049652	-0.0013	-0.0003	0.0003	0.00087178
20	5.4687	5.4854	5.4943	0.0091083	5.4692	5.4844	5.4955	0.0088732	-0.004	-0.001	0.0016	0.0020243
30	5.4683	5.4864	5.507	0.011335	5.4646	5.4862	5.5056	0.011113	-0.0037	-0.00019	0.0045	0.0021584
50	5.4821	5.4877	5.4979	0.0044472	5.4785	5.4859	5.4937	0.0046173	-0.0101	-0.0018	0.0041	0.0041242

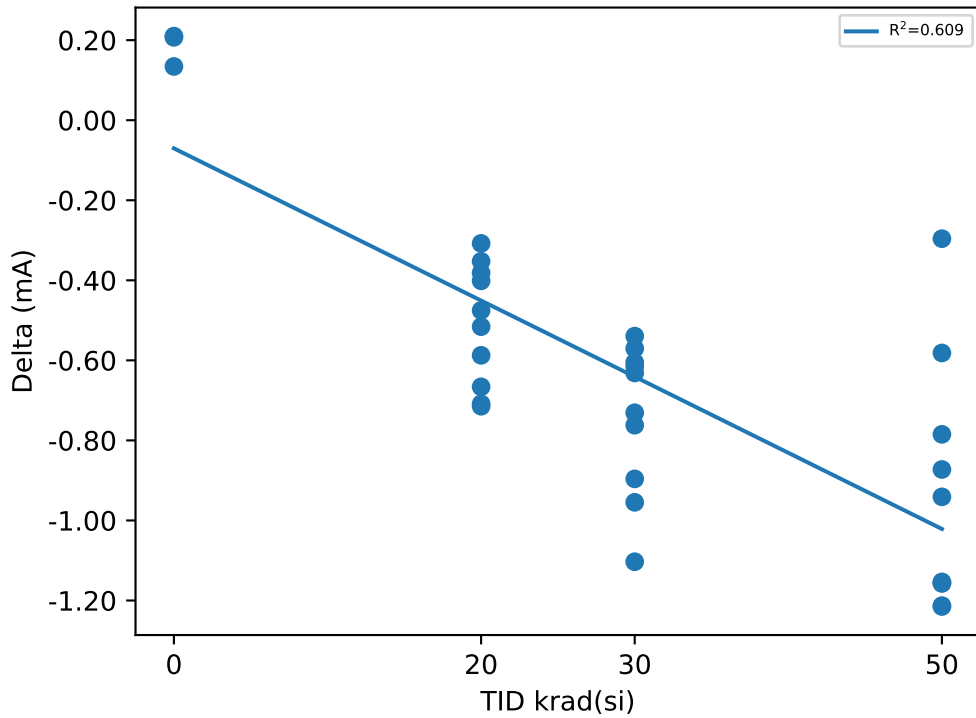
TID vs Result Stats



Test Results (Lower Limit = 25.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	58.18	57.827	-0.3526
22	20	HDR BIAS	59.954	59.24	-0.7146
23	20	HDR BIAS	57.677	57.011	-0.6661
24	20	HDR BIAS	59.465	59.063	-0.4013
25	20	HDR BIAS	58.873	58.164	-0.7086
26	20	HDR UNBIAS	58.894	58.586	-0.3078
27	20	HDR UNBIAS	59.041	58.566	-0.4752
28	20	HDR UNBIAS	61.911	61.396	-0.5158
29	20	HDR UNBIAS	57.93	57.549	-0.3814
30	20	HDR UNBIAS	60.543	59.956	-0.5874
31	30	HDR BIAS	57.451	56.82	-0.6315
32	30	HDR BIAS	58.11	57.348	-0.762
33	30	HDR BIAS	61.74	61.135	-0.6051
34	30	HDR BIAS	60.571	59.84	-0.7309
35	30	HDR BIAS	59.971	58.868	-1.1031
36	30	HDR UNBIAS	58.962	58.066	-0.8961
37	30	HDR UNBIAS	57.222	56.652	-0.5702
38	30	HDR UNBIAS	58.464	57.849	-0.6154
39	30	HDR UNBIAS	58.969	58.015	-0.9547
40	30	HDR UNBIAS	58.972	58.432	-0.5394
41	50	HDR BIAS	59.586	59.004	-0.5815
42	50	HDR BIAS	58.503	57.347	-1.1557
43	50	HDR BIAS	59.801	58.861	-0.941
44	50	HDR BIAS	59.527	58.314	-1.2128
45	50	HDR BIAS	59.462	58.305	-1.1574
46	50	HDR UNBIAS	57.728	56.575	-1.1535
47	50	HDR UNBIAS	59.303	58.518	-0.7848
48	50	HDR UNBIAS	59.079	58.206	-0.8726
49	50	HDR UNBIAS	58.461	58.165	-0.296
50	50	HDR UNBIAS	59.467	58.252	-1.215
71	0	CORRELATION	60.404	60.611	0.2071
72	0	CORRELATION	59.432	59.642	0.2102
73	0	CORRELATION	58.782	58.916	0.1343

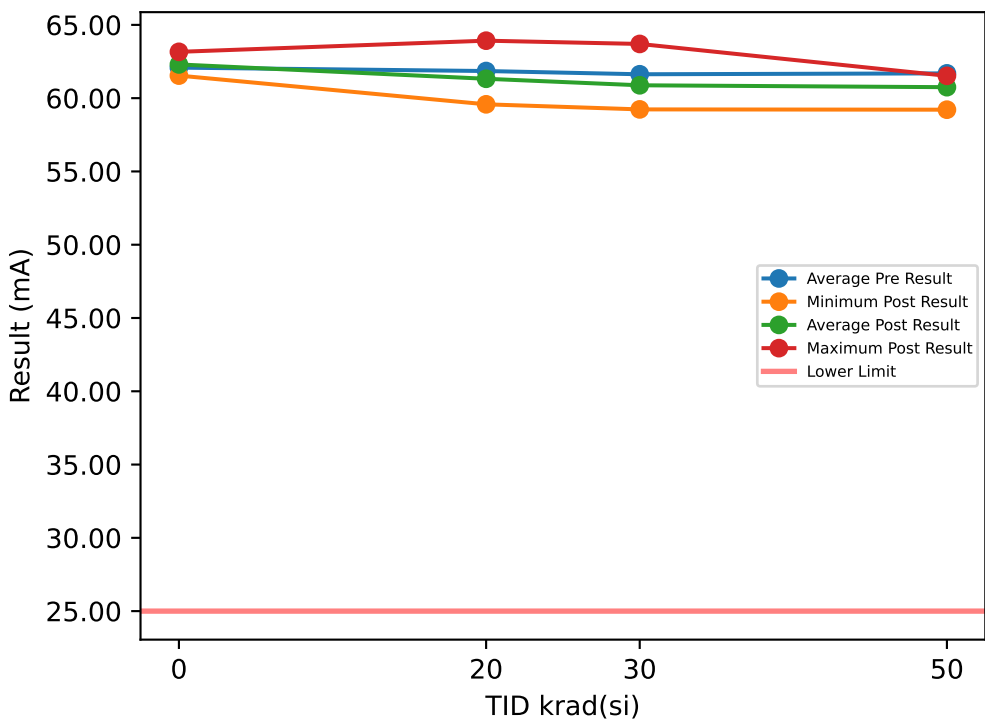
TID vs Post - Pre Exposure Delta



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	58.782	59.539	60.404	0.81634	58.916	59.723	60.611	0.85034	0.1343	0.18387	0.2102	0.042954
20	57.677	59.247	61.911	1.2898	57.011	58.736	61.396	1.2698	-0.7146	-0.51108	-0.3078	0.15162
30	57.222	59.043	61.74	1.396	56.652	58.302	61.135	1.3703	-1.1031	-0.74084	-0.5394	0.1878
50	57.728	59.092	59.801	0.65524	56.575	58.155	59.004	0.71182	-1.215	-0.93703	-0.296	0.30934

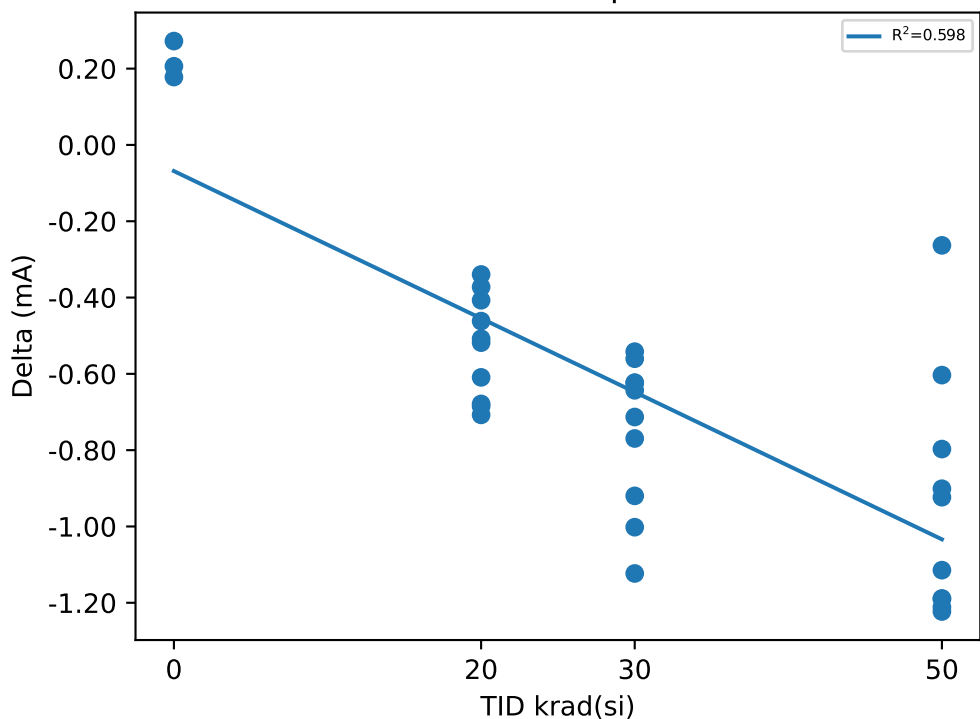
TID vs Result Stats



Test Results (Lower Limit = 25.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	60.829	60.457	-0.3723
22	20	HDR BIAS	62.526	61.841	-0.6851
23	20	HDR BIAS	60.259	59.58	-0.6788
24	20	HDR BIAS	62.123	61.662	-0.4617
25	20	HDR BIAS	61.521	60.814	-0.7075
26	20	HDR UNBIAS	61.473	61.133	-0.3395
27	20	HDR UNBIAS	61.727	61.209	-0.5182
28	20	HDR UNBIAS	64.43	63.922	-0.508
29	20	HDR UNBIAS	60.533	60.126	-0.4071
30	20	HDR UNBIAS	63.094	62.484	-0.6092
31	30	HDR BIAS	60.01	59.367	-0.6431
32	30	HDR BIAS	60.744	59.975	-0.7694
33	30	HDR BIAS	64.323	63.699	-0.6233
34	30	HDR BIAS	63.108	62.395	-0.7131
35	30	HDR BIAS	62.515	61.392	-1.1232
36	30	HDR UNBIAS	61.589	60.669	-0.9198
37	30	HDR UNBIAS	59.794	59.233	-0.5603
38	30	HDR UNBIAS	61.024	60.401	-0.6235
39	30	HDR UNBIAS	61.68	60.678	-1.0019
40	30	HDR UNBIAS	61.52	60.978	-0.5418
41	50	HDR BIAS	62.128	61.524	-0.6033
42	50	HDR BIAS	61.142	59.952	-1.1899
43	50	HDR BIAS	62.352	61.429	-0.9233
44	50	HDR BIAS	62.143	60.932	-1.2114
45	50	HDR BIAS	62.097	60.909	-1.1887
46	50	HDR UNBIAS	60.328	59.213	-1.1145
47	50	HDR UNBIAS	61.896	61.099	-0.7971
48	50	HDR UNBIAS	61.65	60.748	-0.9011
49	50	HDR UNBIAS	61.123	60.86	-0.2632
50	50	HDR UNBIAS	62.053	60.83	-1.2229
71	0	CORRELATION	62.955	63.161	0.2062
72	0	CORRELATION	61.931	62.203	0.2722
73	0	CORRELATION	61.361	61.539	0.1779

TID vs Post - Pre Exposure Delta

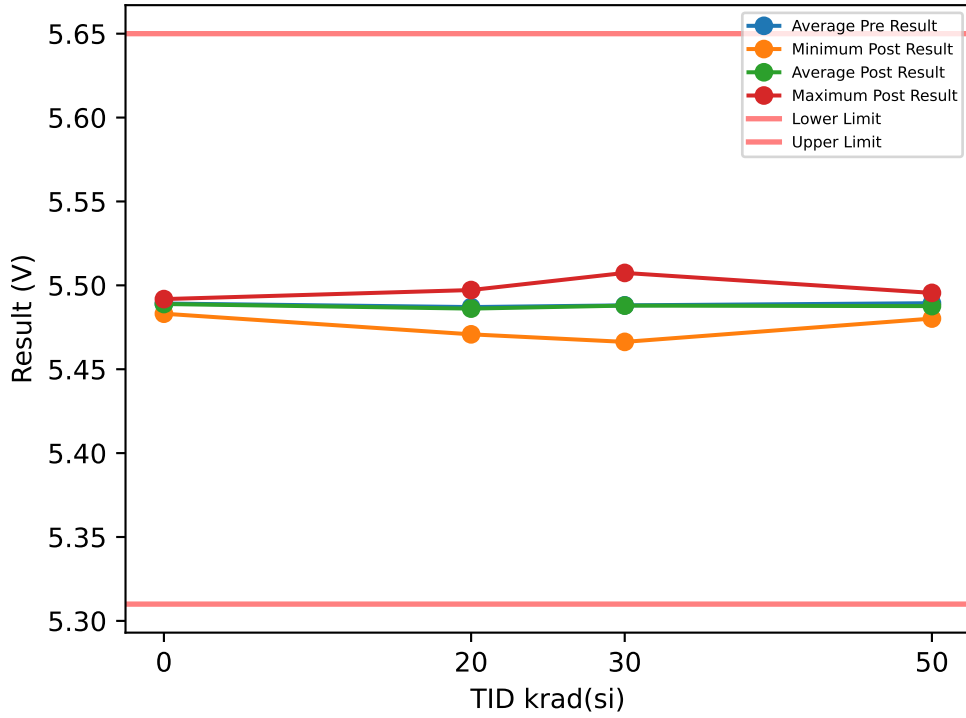


Test Statistics (mA)

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	61.361	62.082	62.955	0.8073	61.539	62.301	63.161	0.81517	0.1779	0.21877	0.2722	0.04839
20	60.259	61.852	64.43	1.2609	59.58	61.323	63.922	1.2479	-0.7075	-0.52874	-0.3395	0.13561
30	59.794	61.631	64.323	1.3897	59.233	60.879	63.699	1.3601	-1.1232	-0.75194	-0.5418	0.19891
50	60.328	61.691	62.352	0.63721	59.213	60.75	61.524	0.68778	-1.2229	-0.94154	-0.2632	0.31659

# Device Test: 15.18 VLDO|V\_VLDO/VLDO/12/12/0/0/5.5/500kHz//@V\_LDO\_5P5

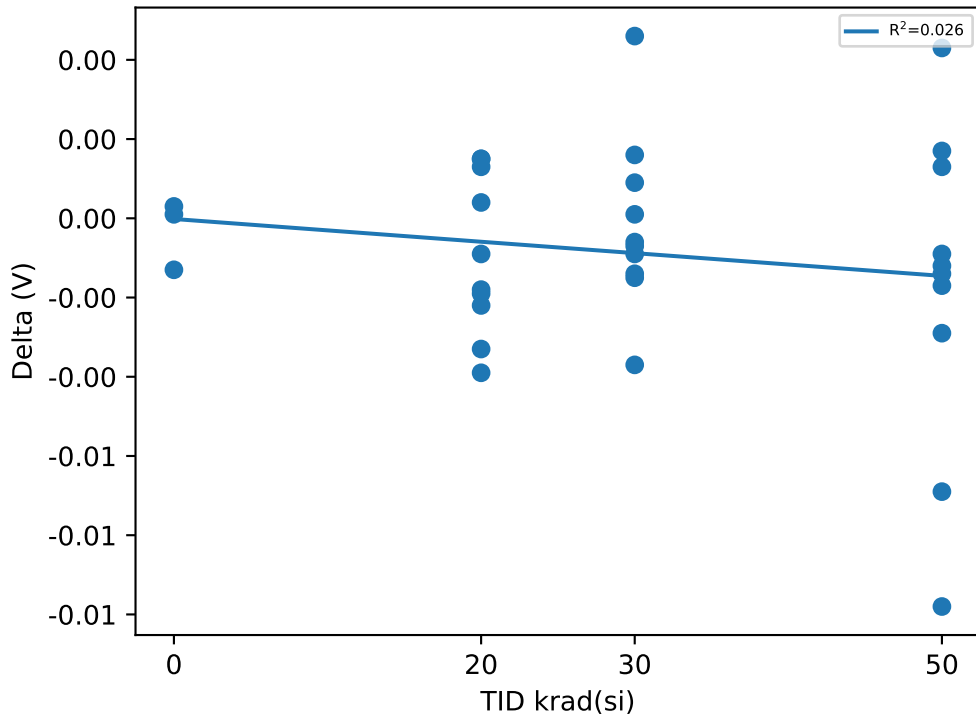
### TID vs Result Stats



### Test Results (Lower Limit = 5.31, Upper Limit = 5.65 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5.496	5.4921	-0.0039
22	20	HDR BIAS	5.4811	5.4826	0.0015
23	20	HDR BIAS	5.4944	5.4959	0.0015
24	20	HDR BIAS	5.4849	5.4816	-0.0033
25	20	HDR BIAS	5.4959	5.4972	0.0013
26	20	HDR UNBIAS	5.4933	5.4911	-0.0022
27	20	HDR UNBIAS	5.482	5.4801	-0.0019
28	20	HDR UNBIAS	5.4704	5.4708	0.0004
29	20	HDR UNBIAS	5.4948	5.493	-0.0018
30	20	HDR UNBIAS	5.4778	5.4769	-0.0009
31	30	HDR BIAS	5.497	5.4961	-0.0009
32	30	HDR BIAS	5.4955	5.4949	-0.0006
33	30	HDR BIAS	5.47	5.4663	-0.0037
34	30	HDR BIAS	5.4878	5.4879	0.0001
35	30	HDR BIAS	5.4729	5.4775	0.0046
36	30	HDR UNBIAS	5.482	5.4829	0.0009
37	30	HDR UNBIAS	5.5089	5.5074	-0.0015
38	30	HDR UNBIAS	5.4875	5.4861	-0.0014
39	30	HDR UNBIAS	5.4902	5.4918	0.0016
40	30	HDR UNBIAS	5.489	5.4883	-0.0007
41	50	HDR BIAS	5.4871	5.4802	-0.0069
42	50	HDR BIAS	5.4878	5.4869	-0.0009
43	50	HDR BIAS	5.4912	5.4898	-0.0014
44	50	HDR BIAS	5.4847	5.486	0.0013
45	50	HDR BIAS	5.4838	5.4821	-0.0017
46	50	HDR UNBIAS	5.4912	5.4955	0.0043
47	50	HDR UNBIAS	5.4893	5.4881	-0.0012
48	50	HDR UNBIAS	5.4878	5.4849	-0.0029
49	50	HDR UNBIAS	5.4996	5.4898	-0.0098
50	50	HDR UNBIAS	5.4912	5.4929	0.0017
71	0	CORRELATION	5.4828	5.4831	0.0003
72	0	CORRELATION	5.493	5.4917	-0.0013
73	0	CORRELATION	5.4917	5.4918	0.0001

### TID vs Post - Pre Exposure Delta



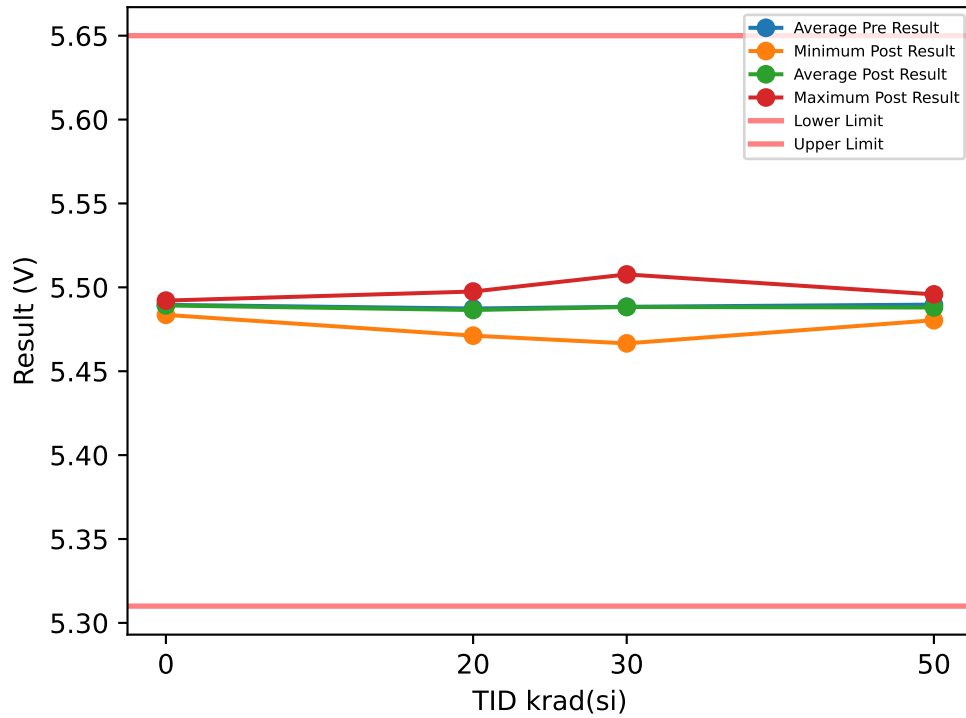
### Test Statistics (V)

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	5.4828	5.4892	5.493	0.0055519	5.4831	5.4889	5.4918	0.0049943	-0.0013	-0.0003	0.0003	0.00087178
20	5.4704	5.4871	5.496	0.0090669	5.4708	5.4861	5.4972	0.0089137	-0.0039	-0.00093	0.0015	0.0020083
30	5.47	5.4881	5.5089	0.011393	5.4663	5.4879	5.5074	0.01113	-0.0037	-0.00016	0.0046	0.0022072
50	5.4838	5.4894	5.4996	0.0044425	5.4802	5.4876	5.4955	0.004664	-0.0098	-0.00175	0.0043	0.0041043



# Device Test: 15.19 VLDO|V\_VLDO/VLDO/14/14/0/0/5.5/500kHz//@V\_LDO\_5P5

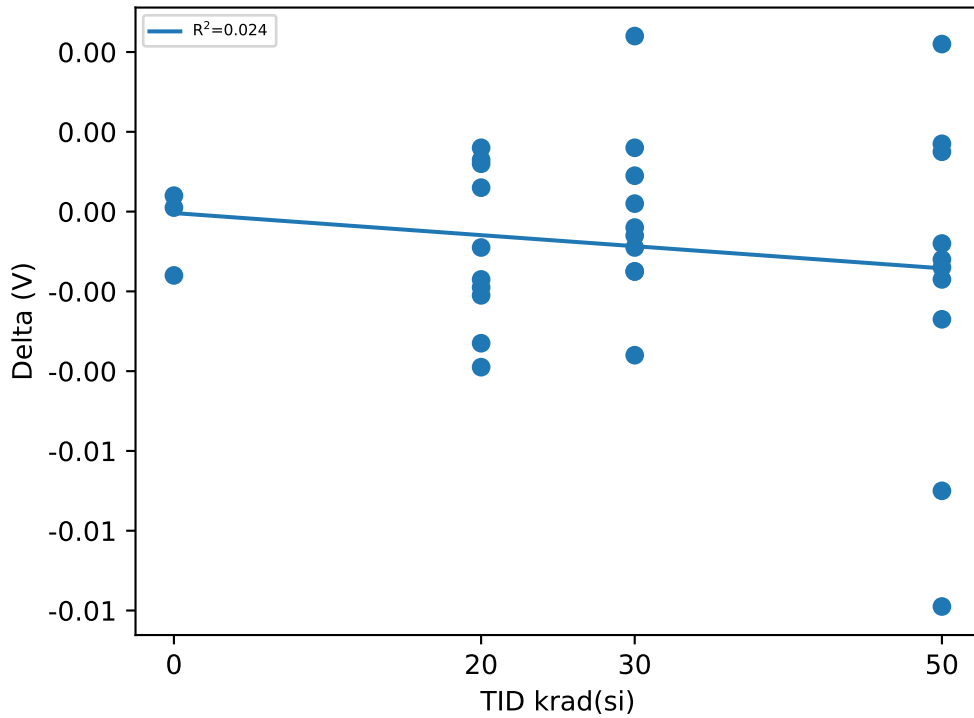
### TID vs Result Stats



### Test Results (Lower Limit = 5.31, Upper Limit = 5.65 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5.4963	5.4924	-0.0039
22	20	HDR BIAS	5.4815	5.4831	0.0016
23	20	HDR BIAS	5.4949	5.4962	0.0013
24	20	HDR BIAS	5.4852	5.4819	-0.0033
25	20	HDR BIAS	5.4963	5.4975	0.0012
26	20	HDR UNBIAS	5.4935	5.4914	-0.0021
27	20	HDR UNBIAS	5.4824	5.4805	-0.0019
28	20	HDR UNBIAS	5.4706	5.4712	0.0006
29	20	HDR UNBIAS	5.4951	5.4934	-0.0017
30	20	HDR UNBIAS	5.4781	5.4772	-0.0009
31	30	HDR BIAS	5.4974	5.4965	-0.0009
32	30	HDR BIAS	5.4958	5.4954	-0.0004
33	30	HDR BIAS	5.4702	5.4666	-0.0036
34	30	HDR BIAS	5.4881	5.4883	0.0002
35	30	HDR BIAS	5.4733	5.4777	0.0044
36	30	HDR UNBIAS	5.4825	5.4834	0.0009
37	30	HDR UNBIAS	5.5092	5.5077	-0.0015
38	30	HDR UNBIAS	5.4879	5.4864	-0.0015
39	30	HDR UNBIAS	5.4905	5.4921	0.0016
40	30	HDR UNBIAS	5.4893	5.4887	-0.0006
41	50	HDR BIAS	5.4874	5.4804	-0.007
42	50	HDR BIAS	5.4881	5.4873	-0.0008
43	50	HDR BIAS	5.4915	5.4901	-0.0014
44	50	HDR BIAS	5.485	5.4865	0.0015
45	50	HDR BIAS	5.4842	5.4825	-0.0017
46	50	HDR UNBIAS	5.4916	5.4958	0.0042
47	50	HDR UNBIAS	5.4896	5.4884	-0.0012
48	50	HDR UNBIAS	5.4881	5.4854	-0.0027
49	50	HDR UNBIAS	5.5	5.4901	-0.0099
50	50	HDR UNBIAS	5.4915	5.4932	0.0017
71	0	CORRELATION	5.4832	5.4836	0.0004
72	0	CORRELATION	5.4935	5.4919	-0.0016
73	0	CORRELATION	5.492	5.4921	0.0001

### TID vs Post - Pre Exposure Delta



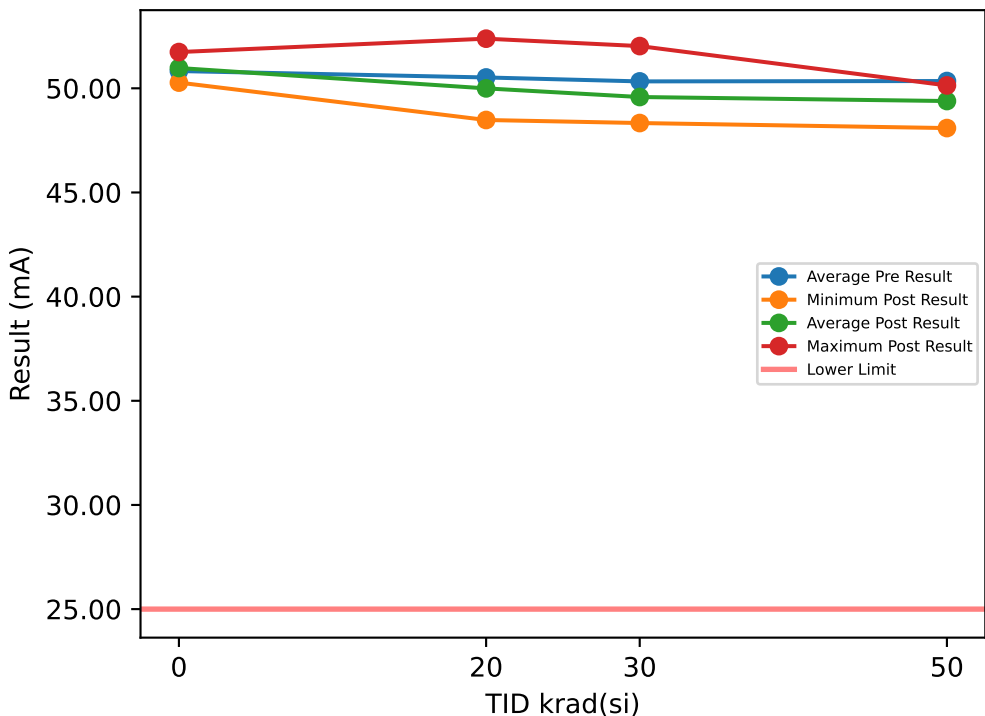
### Test Statistics (V)

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	5.4832	5.4896	5.4935	0.0055645	5.4836	5.4892	5.4921	0.0048508	-0.0016	-0.00036667	0.0004	0.0010786
20	5.4706	5.4874	5.4963	0.0090955	5.4712	5.4865	5.4975	0.008887	-0.0039	-0.00091	0.0016	0.0019886
30	5.4702	5.4884	5.5092	0.011392	5.4666	5.4883	5.5077	0.011153	-0.0036	-0.00014	0.0044	0.0021438
50	5.4842	5.4897	5.5	0.0044589	5.4804	5.488	5.4958	0.0046471	-0.0099	-0.00173	0.0042	0.0041376

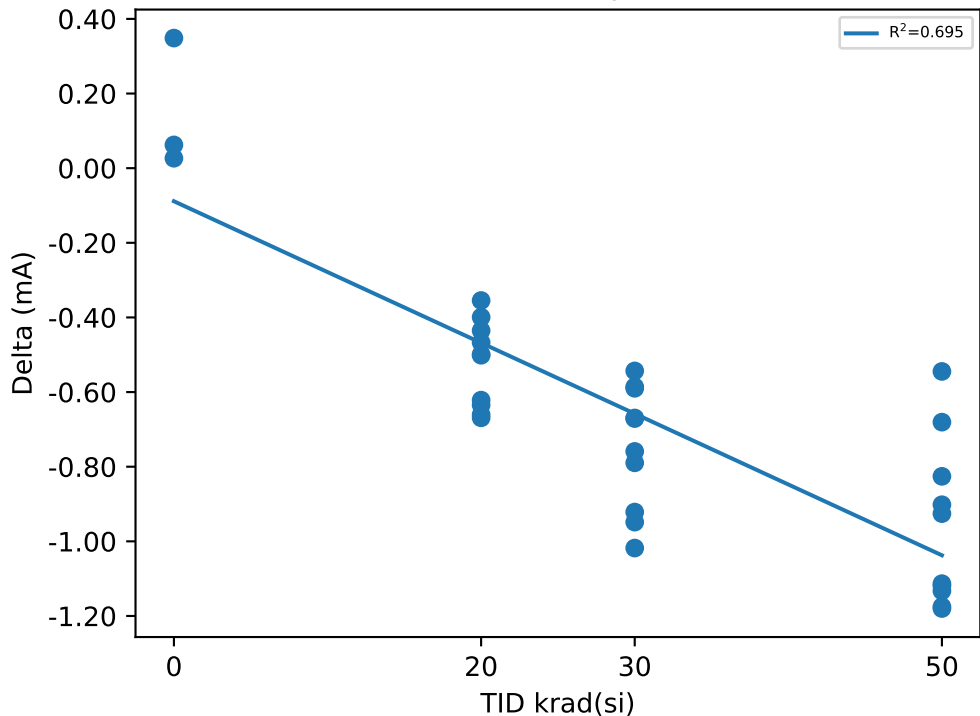


# Device Test: 15.2 VLDO|ILIM\_VLDO/VLDO/5/5/0/0/4.5/500kHz//@V\_LDO\_ILIM\_4P5\_PLUS\_0P5

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Lower Limit = 25.0 (mA))

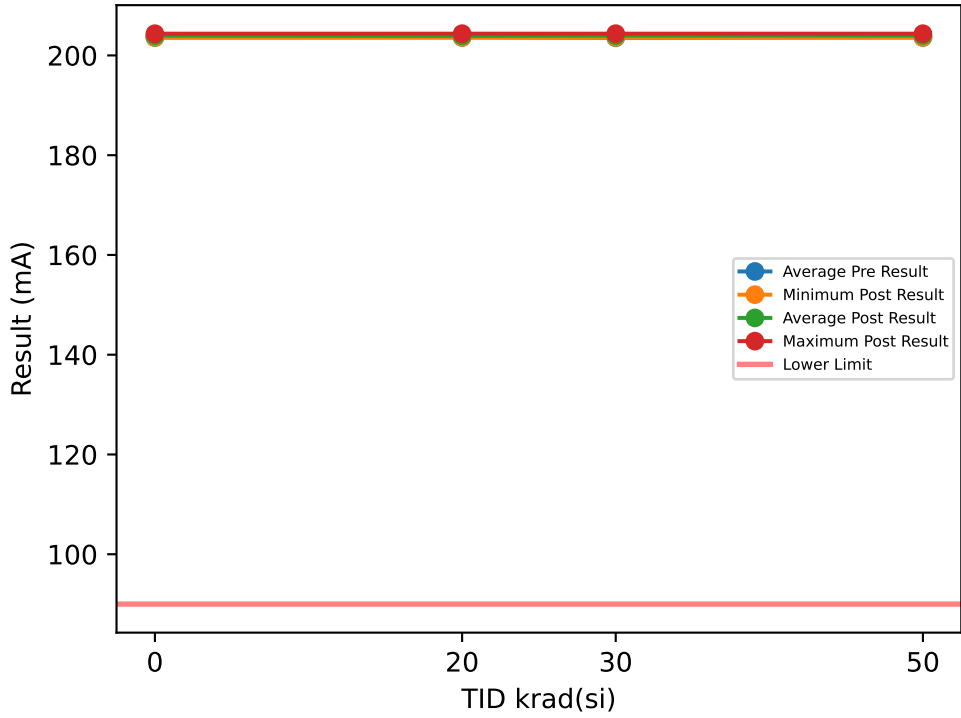
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	49.665	49.266	-0.3993
22	20	HDR BIAS	51.123	50.454	-0.669
23	20	HDR BIAS	49.101	48.479	-0.6216
24	20	HDR BIAS	50.762	50.295	-0.467
25	20	HDR BIAS	50.345	49.685	-0.6604
26	20	HDR UNBIAS	50.185	49.831	-0.3546
27	20	HDR UNBIAS	50.223	49.721	-0.5013
28	20	HDR UNBIAS	52.881	52.382	-0.499
29	20	HDR UNBIAS	49.296	48.861	-0.4352
30	20	HDR UNBIAS	51.625	50.99	-0.6347
31	30	HDR BIAS	48.974	48.384	-0.5899
32	30	HDR BIAS	49.481	48.691	-0.7896
33	30	HDR BIAS	52.697	52.027	-0.6694
34	30	HDR BIAS	51.872	51.113	-0.759
35	30	HDR BIAS	50.894	49.876	-1.018
36	30	HDR UNBIAS	50.162	49.241	-0.9215
37	30	HDR UNBIAS	48.919	48.333	-0.5861
38	30	HDR UNBIAS	49.751	49.08	-0.6709
39	30	HDR UNBIAS	50.249	49.3	-0.9485
40	30	HDR UNBIAS	50.319	49.776	-0.5433
41	50	HDR BIAS	50.758	50.078	-0.6806
42	50	HDR BIAS	49.838	48.724	-1.1134
43	50	HDR BIAS	51.064	50.138	-0.9257
44	50	HDR BIAS	50.59	49.458	-1.1327
45	50	HDR BIAS	50.681	49.501	-1.18
46	50	HDR UNBIAS	49.211	48.092	-1.1192
47	50	HDR UNBIAS	50.4	49.574	-0.8258
48	50	HDR UNBIAS	50.315	49.413	-0.9019
49	50	HDR UNBIAS	49.989	49.444	-0.5447
50	50	HDR UNBIAS	50.647	49.472	-1.175
71	0	CORRELATION	51.392	51.74	0.3486
72	0	CORRELATION	50.883	50.909	0.0266
73	0	CORRELATION	50.212	50.274	0.0623

### 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	50.212	50.829	51.392	0.59175	50.274	50.975	51.74	0.73522	0.0266	0.14583	0.3486	0.17651
20	49.101	50.521	52.881	1.1399	48.479	49.996	52.382	1.1208	-0.669	-0.52421	-0.3546	0.11447
30	48.919	50.332	52.697	1.2118	48.333	49.582	52.027	1.1871	-1.018	-0.74962	-0.5433	0.16675
50	49.211	50.349	51.064	0.54024	48.092	49.389	50.138	0.59839	-1.18	-0.9599	-0.5447	0.22272

# Device Test: 15.20 VLDO|ILIM\_VLDO/VLDO/14/14/0/0/5.5/500kHz//@V\_LDO\_ILIM\_5P5\_7

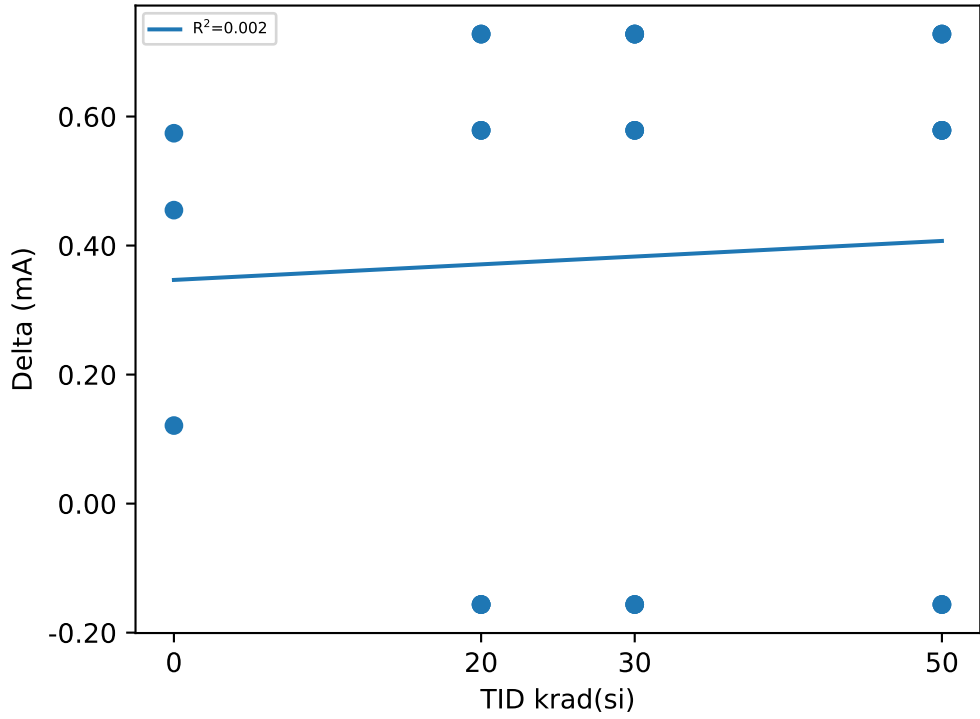
### TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	203.79	203.63	-0.1564
22	20	HDR BIAS	203.18	203.9	0.7278
23	20	HDR BIAS	203.78	204.36	0.5786
24	20	HDR BIAS	203.79	203.63	-0.1564
25	20	HDR BIAS	203.18	203.9	0.7278
26	20	HDR UNBIAS	203.78	204.36	0.5786
27	20	HDR UNBIAS	203.79	203.63	-0.1564
28	20	HDR UNBIAS	203.18	203.9	0.7278
29	20	HDR UNBIAS	203.78	204.36	0.5786
30	20	HDR UNBIAS	203.79	203.63	-0.1564
31	30	HDR BIAS	203.18	203.9	0.7278
32	30	HDR BIAS	203.78	204.36	0.5786
33	30	HDR BIAS	203.79	203.63	-0.1564
34	30	HDR BIAS	203.18	203.9	0.7278
35	30	HDR BIAS	203.78	204.36	0.5786
36	30	HDR UNBIAS	203.79	203.63	-0.1564
37	30	HDR UNBIAS	203.18	203.9	0.7278
38	30	HDR UNBIAS	203.78	204.36	0.5786
39	30	HDR UNBIAS	203.79	203.63	-0.1564
40	30	HDR UNBIAS	203.18	203.9	0.7278
41	50	HDR BIAS	203.78	204.36	0.5786
42	50	HDR BIAS	203.79	203.63	-0.1564
43	50	HDR BIAS	203.18	203.9	0.7278
44	50	HDR BIAS	203.78	204.36	0.5786
45	50	HDR BIAS	203.79	203.63	-0.1564
46	50	HDR UNBIAS	203.18	203.9	0.7278
47	50	HDR UNBIAS	203.78	204.36	0.5786
48	50	HDR UNBIAS	203.79	203.63	-0.1564
49	50	HDR UNBIAS	203.18	203.9	0.7278
50	50	HDR UNBIAS	203.78	204.36	0.5786
71	0	CORRELATION	203.78	203.9	0.121
72	0	CORRELATION	203.79	204.36	0.5741
73	0	CORRELATION	203.18	203.63	0.4549

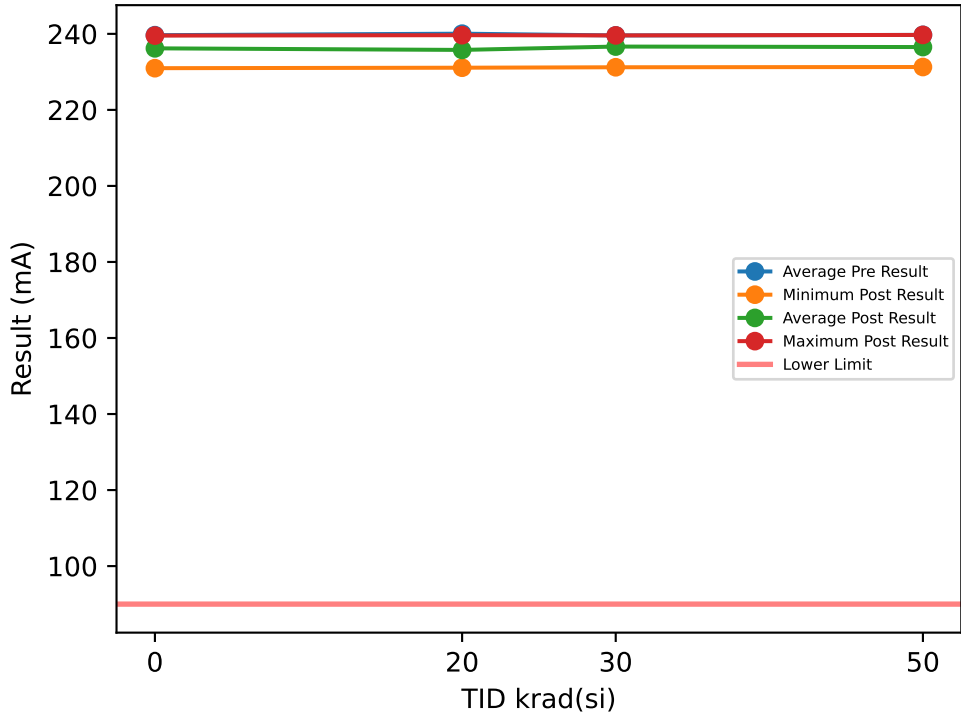
### TID vs Post - Pre Exposure Delta



### 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	203.18	203.58	203.79	0.35164	203.63	203.96	204.36	0.36912	0.121	0.38333	0.5741	0.23487
20	203.18	203.6	203.79	0.29436	203.63	203.93	204.36	0.31941	-0.1564	0.32936	0.7278	0.42249
30	203.18	203.54	203.79	0.31452	203.63	203.96	204.36	0.30201	-0.1564	0.41778	0.7278	0.40154
50	203.18	203.6	203.79	0.29405	203.63	204	204.36	0.32637	-0.1564	0.40286	0.7278	0.39138

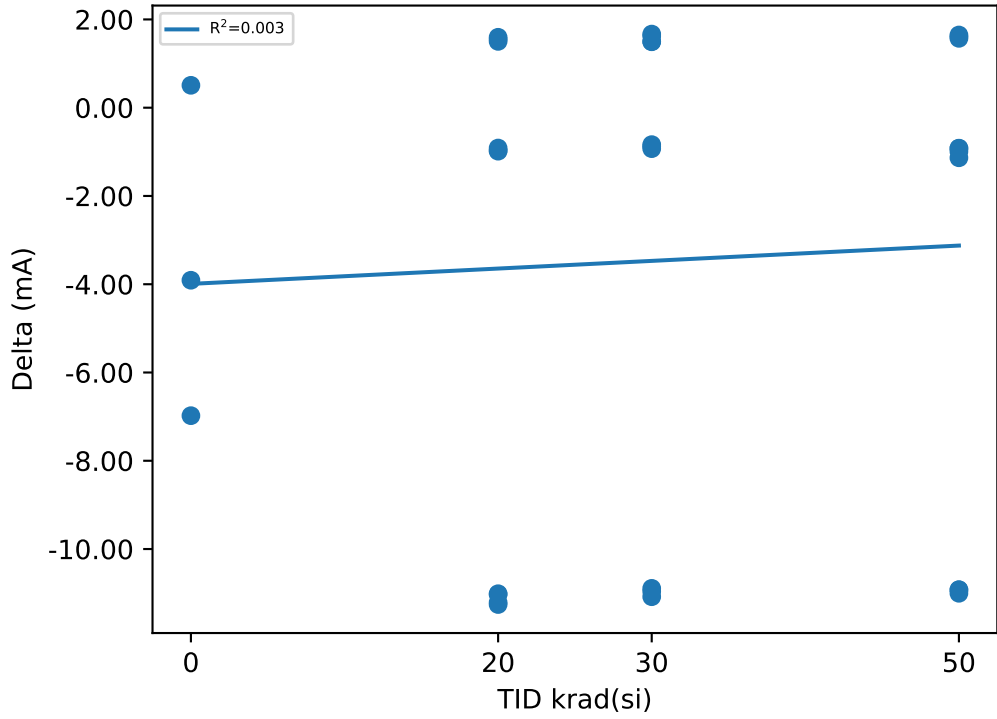
TID vs Result Stats



Test Results (Lower Limit = 90.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	242.35	231.1	-11.257
22	20	HDR BIAS	238.02	239.57	1.5511
23	20	HDR BIAS	239.05	238.08	-0.9686
24	20	HDR BIAS	242.38	231.17	-11.209
25	20	HDR BIAS	238.06	239.65	1.5958
26	20	HDR UNBIAS	239.03	238.05	-0.9853
27	20	HDR UNBIAS	242.33	231.32	-11.013
28	20	HDR UNBIAS	238	239.5	1.5024
29	20	HDR UNBIAS	239.02	238.11	-0.9139
30	20	HDR UNBIAS	242.22	231.19	-11.027
31	30	HDR BIAS	237.92	239.59	1.6681
32	30	HDR BIAS	239.03	238.15	-0.8755
33	30	HDR BIAS	242.29	231.21	-11.08
34	30	HDR BIAS	237.96	239.58	1.6234
35	30	HDR BIAS	238.92	238.08	-0.8367
36	30	HDR UNBIAS	242.31	231.35	-10.96
37	30	HDR UNBIAS	238.06	239.55	1.4935
38	30	HDR UNBIAS	239.02	238.09	-0.9281
39	30	HDR UNBIAS	242.34	231.45	-10.891
40	30	HDR UNBIAS	238.03	239.53	1.5005
41	50	HDR BIAS	238.98	238.06	-0.9202
42	50	HDR BIAS	242.35	231.42	-10.927
43	50	HDR BIAS	238.05	239.66	1.6097
44	50	HDR BIAS	239.1	238.1	-0.9919
45	50	HDR BIAS	242.27	231.35	-10.921
46	50	HDR UNBIAS	238.02	239.59	1.5715
47	50	HDR UNBIAS	239.09	237.96	-1.1348
48	50	HDR UNBIAS	242.28	231.28	-11.003
49	50	HDR UNBIAS	238.07	239.72	1.6475
50	50	HDR UNBIAS	239.08	238.16	-0.9172
71	0	CORRELATION	239.03	239.54	0.5075
72	0	CORRELATION	241.97	238.06	-3.9096
73	0	CORRELATION	237.95	230.97	-6.9783

TID vs Post - Pre Exposure Delta

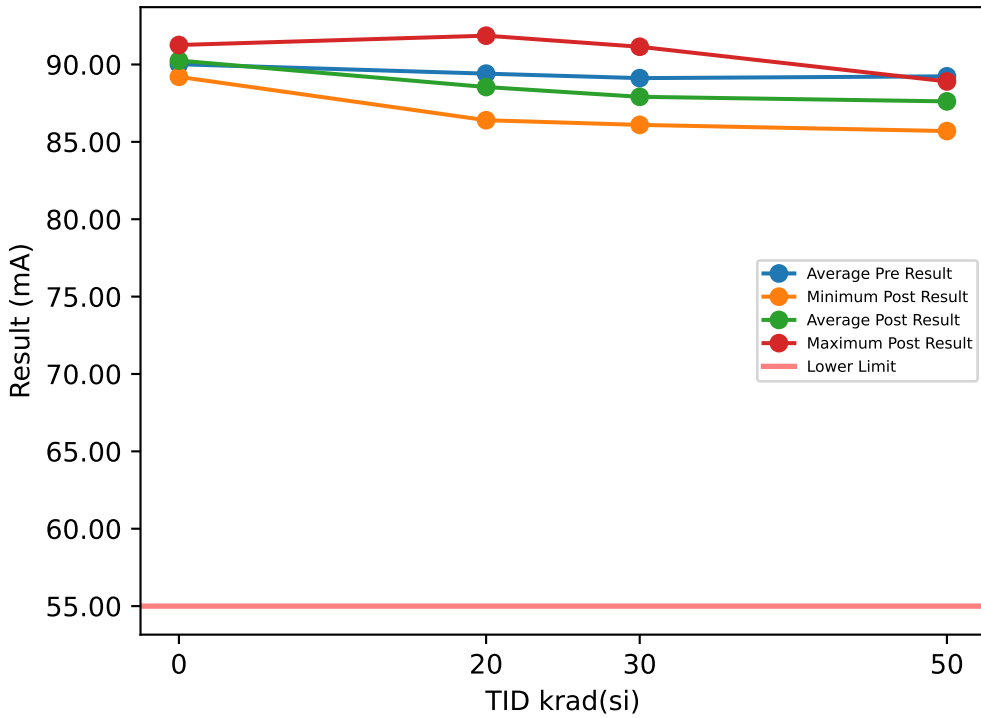


Test Statistics (mA)

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	237.95	239.65	241.97	2.0816	230.97	236.19	239.54	4.5816	-6.9783	-3.4601	0.5075	3.7631
20	238	240.05	242.38	2.0009	231.1	235.77	239.65	3.9892	-11.257	-4.2725	1.5958	5.9876
30	237.92	239.59	242.34	1.9321	231.21	236.66	239.59	3.7272	-11.08	-2.9286	1.6681	5.6565
50	238.02	239.73	242.35	1.829	231.28	236.53	239.72	3.6419	-11.003	-3.1985	1.6475	5.4685

# Device Test: 15.28 VLDO|ILIM\_VLDO/VLDO/5.5/5.5/0/0/4.5/500kHz//@V\_LDO\_ILIM\_4P5\_PLUS\_1

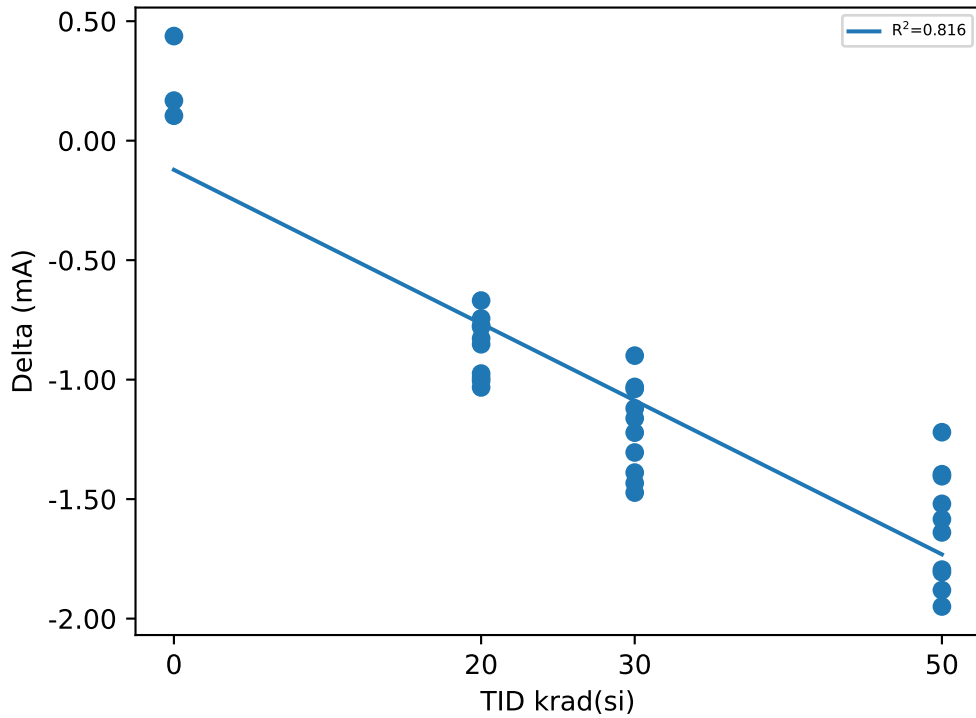
### TID vs Result Stats



### Test Results (Lower Limit = 55.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	88.31	87.566	-0.7439
22	20	HDR BIAS	90.128	89.122	-1.0052
23	20	HDR BIAS	87.39	86.398	-0.9923
24	20	HDR BIAS	89.68	88.828	-0.852
25	20	HDR BIAS	89.491	88.459	-1.0326
26	20	HDR UNBIAS	89.186	88.517	-0.669
27	20	HDR UNBIAS	88.69	87.862	-0.8273
28	20	HDR UNBIAS	92.641	91.861	-0.7794
29	20	HDR UNBIAS	87.756	86.982	-0.7738
30	20	HDR UNBIAS	90.806	89.831	-0.9745
31	30	HDR BIAS	87.127	86.097	-1.0304
32	30	HDR BIAS	88.084	86.78	-1.3048
33	30	HDR BIAS	92.307	91.145	-1.1617
34	30	HDR BIAS	91.678	90.457	-1.2218
35	30	HDR BIAS	89.493	88.021	-1.4727
36	30	HDR UNBIAS	88.574	87.185	-1.3889
37	30	HDR UNBIAS	87.543	86.505	-1.0387
38	30	HDR UNBIAS	88.169	87.049	-1.1205
39	30	HDR UNBIAS	89.11	87.677	-1.4331
40	30	HDR UNBIAS	89.096	88.196	-0.8995
41	50	HDR BIAS	89.882	88.486	-1.3957
42	50	HDR BIAS	88.241	86.436	-1.8059
43	50	HDR BIAS	90.488	88.904	-1.584
44	50	HDR BIAS	89.527	87.732	-1.795
45	50	HDR BIAS	89.512	87.562	-1.9494
46	50	HDR UNBIAS	87.336	85.697	-1.6393
47	50	HDR UNBIAS	89.427	88.023	-1.4042
48	50	HDR UNBIAS	89.018	87.498	-1.5198
49	50	HDR UNBIAS	89.007	87.787	-1.22
50	50	HDR UNBIAS	89.91	88.029	-1.8808
71	0	CORRELATION	90.821	91.259	0.4377
72	0	CORRELATION	90.196	90.3	0.1044
73	0	CORRELATION	89.034	89.201	0.1677

### TID vs Post - Pre Exposure Delta

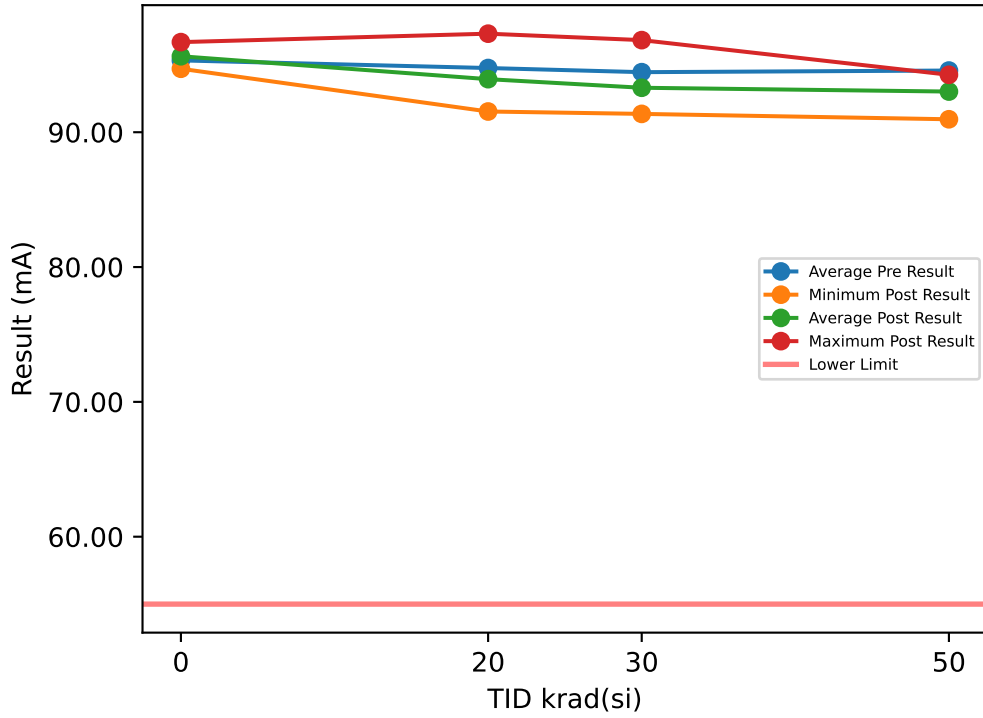


### Test Statistics (mA)

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	89.034	90.017	90.821	0.90705	89.201	90.254	91.259	1.0295	0.1044	0.2366	0.4377	0.17701
20	87.39	89.408	92.641	1.5483	86.398	88.543	91.861	1.5474	-1.0326	-0.865	-0.669	0.12748
30	87.127	89.118	92.307	1.6857	86.097	87.911	91.145	1.6637	-1.4727	-1.2072	-0.8995	0.19096
50	87.336	89.235	90.488	0.90285	85.697	87.615	88.904	0.93632	-1.9494	-1.6194	-1.22	0.23812

Device Test: 15.29 VLDO|ILIM\_VLDO/VLDO/6/6/0/0/5/500kHz//@V\_LDO\_ILIM\_5\_PLUS\_1

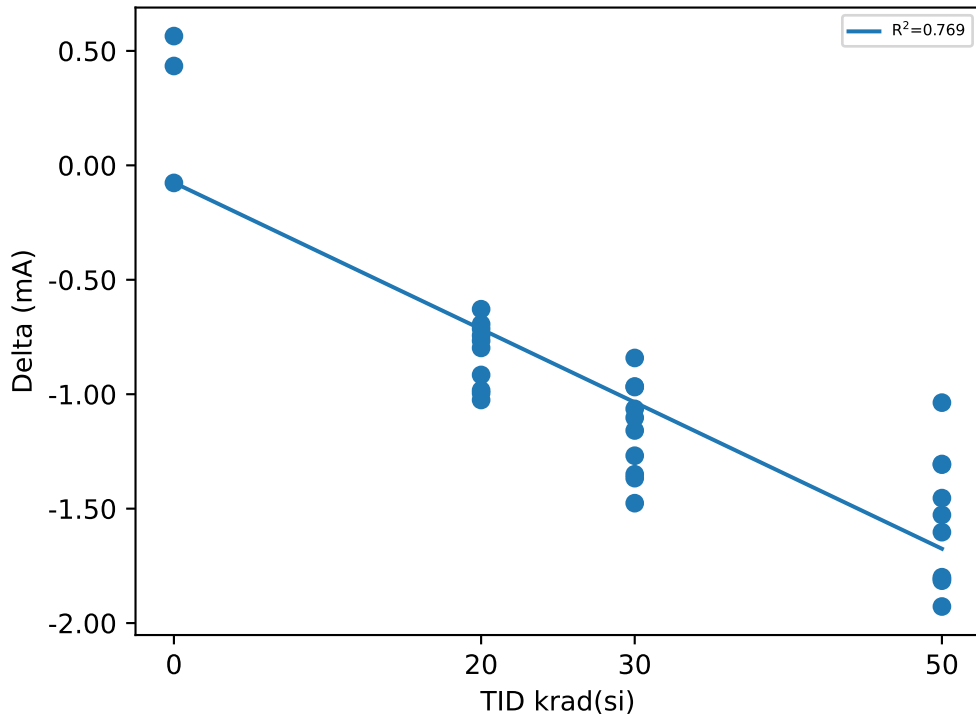
TID vs Result Stats



Test Results (Lower Limit = 55.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	93.73	93.016	-0.714
22	20	HDR BIAS	95.494	94.499	-0.9952
23	20	HDR BIAS	92.52	91.537	-0.9827
24	20	HDR BIAS	95.145	94.379	-0.7661
25	20	HDR BIAS	94.702	93.677	-1.0252
26	20	HDR UNBIAS	94.378	93.749	-0.6285
27	20	HDR UNBIAS	94.279	93.481	-0.7977
28	20	HDR UNBIAS	98.053	97.309	-0.7437
29	20	HDR UNBIAS	92.908	92.214	-0.6937
30	20	HDR UNBIAS	96.409	95.493	-0.9158
31	30	HDR BIAS	92.326	91.36	-0.9662
32	30	HDR BIAS	93.263	91.995	-1.2687
33	30	HDR BIAS	97.935	96.832	-1.1026
34	30	HDR BIAS	96.918	95.759	-1.1585
35	30	HDR BIAS	94.891	93.415	-1.4761
36	30	HDR UNBIAS	94.148	92.798	-1.3498
37	30	HDR UNBIAS	92.671	91.702	-0.9687
38	30	HDR UNBIAS	93.381	92.317	-1.064
39	30	HDR UNBIAS	94.645	93.278	-1.3668
40	30	HDR UNBIAS	94.367	93.525	-0.8416
41	50	HDR BIAS	95.086	93.779	-1.3077
42	50	HDR BIAS	93.726	91.919	-1.807
43	50	HDR BIAS	95.788	94.26	-1.5275
44	50	HDR BIAS	94.861	93.046	-1.8147
45	50	HDR BIAS	95.065	93.137	-1.9276
46	50	HDR UNBIAS	92.564	90.961	-1.6028
47	50	HDR UNBIAS	94.73	93.425	-1.3049
48	50	HDR UNBIAS	94.564	93.11	-1.4539
49	50	HDR UNBIAS	94.237	93.2	-1.0368
50	50	HDR UNBIAS	95.13	93.331	-1.7995
71	0	CORRELATION	96.119	96.683	0.5648
72	0	CORRELATION	95.59	95.514	-0.0768
73	0	CORRELATION	94.274	94.708	0.4341

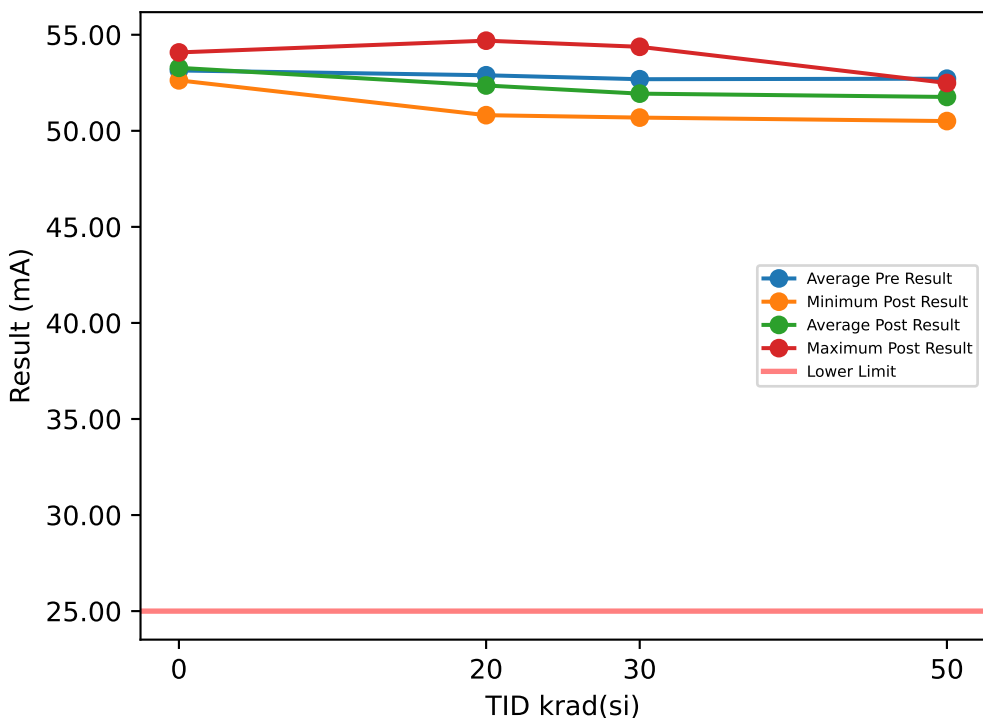
TID vs Post - Pre Exposure Delta



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	94.274	95.328	96.119	0.9501	94.708	95.635	96.683	0.99338	-0.0768	0.30737	0.5648	0.33906
20	92.52	94.762	98.053	1.6378	91.537	93.935	97.309	1.6395	-1.0252	-0.82626	-0.6285	0.14187
30	92.326	94.455	97.935	1.7885	91.36	93.298	96.832	1.7583	-1.4761	-1.1563	-0.8416	0.20506
50	92.564	94.575	95.788	0.89862	90.961	93.017	94.26	0.93586	-1.9276	-1.5582	-1.0368	0.28577

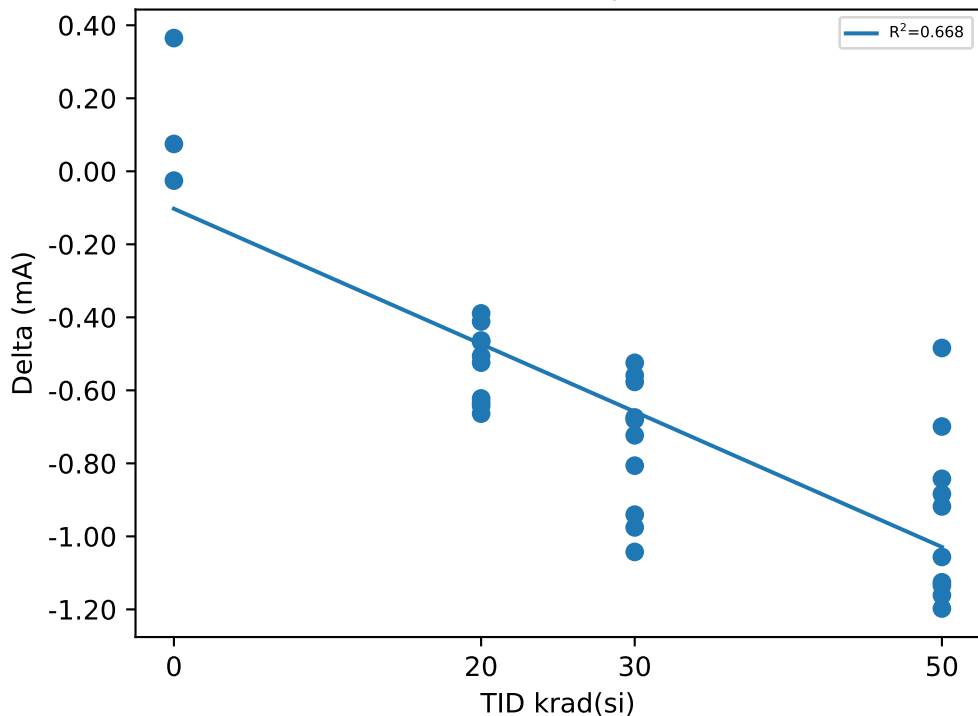
TID vs Result Stats



Test Results (Lower Limit = 25.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	52.091	51.679	-0.4114
22	20	HDR BIAS	53.454	52.832	-0.6222
23	20	HDR BIAS	51.448	50.814	-0.634
24	20	HDR BIAS	53.176	52.67	-0.5059
25	20	HDR BIAS	52.762	52.119	-0.6426
26	20	HDR UNBIAS	52.535	52.146	-0.3892
27	20	HDR UNBIAS	52.671	52.147	-0.5241
28	20	HDR UNBIAS	55.158	54.692	-0.4667
29	20	HDR UNBIAS	51.665	51.201	-0.4635
30	20	HDR UNBIAS	53.957	53.293	-0.6638
31	30	HDR BIAS	51.288	50.711	-0.5769
32	30	HDR BIAS	51.884	51.078	-0.8063
33	30	HDR BIAS	55.054	54.373	-0.6804
34	30	HDR BIAS	54.178	53.454	-0.7232
35	30	HDR BIAS	53.208	52.165	-1.0426
36	30	HDR UNBIAS	52.57	51.63	-0.9405
37	30	HDR UNBIAS	51.247	50.688	-0.5591
38	30	HDR UNBIAS	52.073	51.399	-0.6743
39	30	HDR UNBIAS	52.73	51.755	-0.9755
40	30	HDR UNBIAS	52.627	52.103	-0.5246
41	50	HDR BIAS	53.07	52.371	-0.6991
42	50	HDR BIAS	52.244	51.109	-1.1344
43	50	HDR BIAS	53.373	52.489	-0.884
44	50	HDR BIAS	52.97	51.844	-1.1257
45	50	HDR BIAS	53.083	51.885	-1.1976
46	50	HDR UNBIAS	51.564	50.507	-1.0564
47	50	HDR UNBIAS	52.766	51.924	-0.8423
48	50	HDR UNBIAS	52.663	51.745	-0.918
49	50	HDR UNBIAS	52.4	51.916	-0.484
50	50	HDR UNBIAS	52.999	51.838	-1.1612
71	0	CORRELATION	53.715	54.08	0.3649
72	0	CORRELATION	53.157	53.131	-0.0255
73	0	CORRELATION	52.552	52.627	0.0749

TID vs Post - Pre Exposure Delta



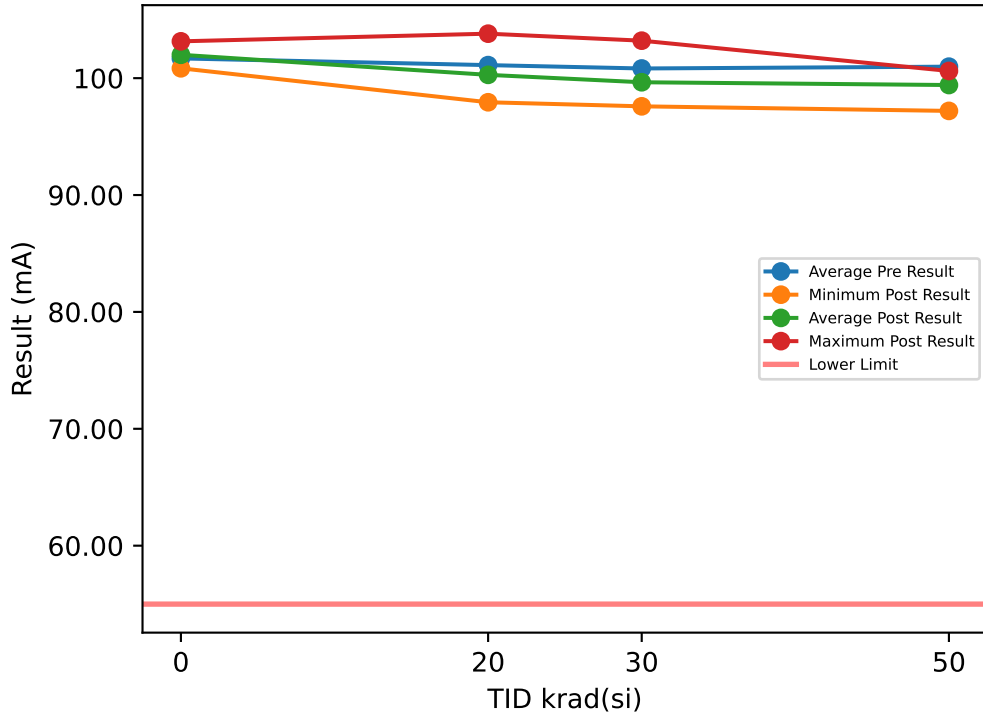
Test Statistics (mA)

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	52.552	53.141	53.715	0.58185	52.627	53.279	54.08	0.73798	-0.0255	0.1381	0.3649	0.20273
20	51.448	52.892	55.158	1.1103	50.814	52.359	54.692	1.1041	-0.6638	-0.53234	-0.3892	0.10153
30	51.247	52.686	55.054	1.2094	50.688	51.936	54.373	1.1802	-1.0426	-0.75034	-0.5246	0.18392
50	51.564	52.713	53.373	0.52623	50.507	51.763	52.489	0.57519	-1.1976	-0.95027	-0.484	0.23075



# Device Test: 15.30 VLDO|ILIM\_VLDO/VLDO/6.5/6.5/0/0/5.5/500kHz//@V\_LDO\_ILIM\_5P5\_PLUS\_1

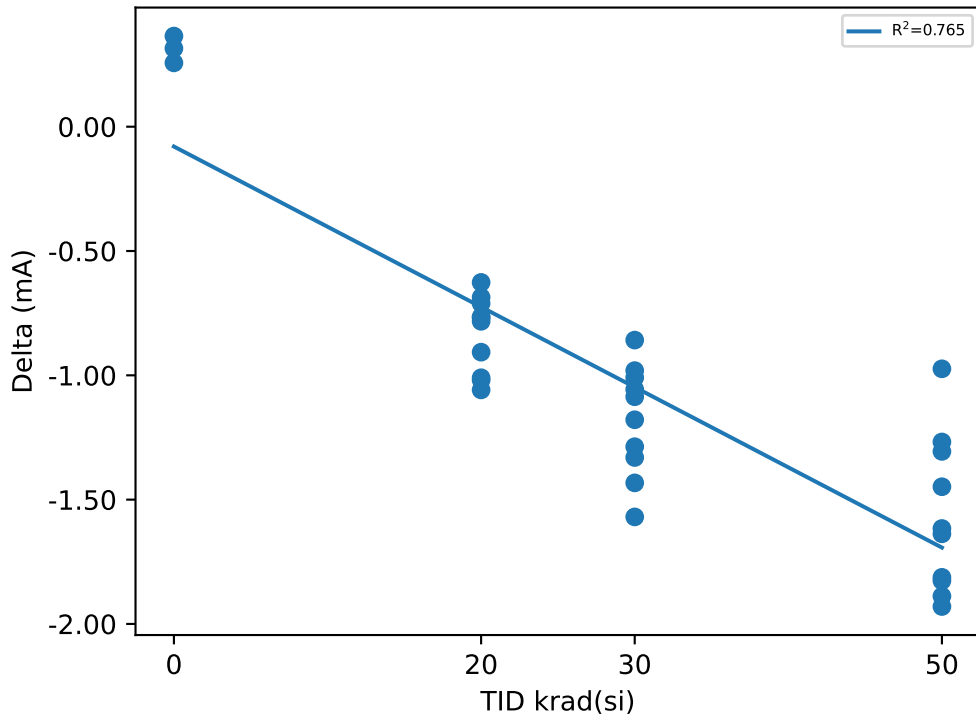
### TID vs Result Stats



### Test Results (Lower Limit = 55.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	99.845	99.134	-0.7109
22	20	HDR BIAS	101.96	100.94	-1.0194
23	20	HDR BIAS	98.948	97.938	-1.0098
24	20	HDR BIAS	101.34	100.58	-0.7648
25	20	HDR BIAS	100.99	99.928	-1.0586
26	20	HDR UNBIAS	100.9	100.28	-0.6263
27	20	HDR UNBIAS	100.52	99.753	-0.7671
28	20	HDR UNBIAS	104.59	103.81	-0.7828
29	20	HDR UNBIAS	99.358	98.671	-0.6862
30	20	HDR UNBIAS	102.72	101.81	-0.9069
31	30	HDR BIAS	98.6	97.59	-1.0092
32	30	HDR BIAS	99.755	98.468	-1.2871
33	30	HDR BIAS	104.29	103.21	-1.0862
34	30	HDR BIAS	103.32	102.14	-1.1787
35	30	HDR BIAS	101.58	100.01	-1.5695
36	30	HDR UNBIAS	100.36	99.034	-1.3305
37	30	HDR UNBIAS	98.9	97.919	-0.981
38	30	HDR UNBIAS	99.872	98.815	-1.0566
39	30	HDR UNBIAS	100.89	99.455	-1.4326
40	30	HDR UNBIAS	100.71	99.855	-0.8583
41	50	HDR BIAS	101.67	100.36	-1.306
42	50	HDR BIAS	99.888	98.076	-1.8125
43	50	HDR BIAS	102.23	100.62	-1.6161
44	50	HDR BIAS	101.5	99.611	-1.8884
45	50	HDR BIAS	101.31	99.376	-1.9299
46	50	HDR UNBIAS	98.836	97.198	-1.6375
47	50	HDR UNBIAS	101.34	100.07	-1.2681
48	50	HDR UNBIAS	100.83	99.38	-1.4481
49	50	HDR UNBIAS	100.54	99.564	-0.9738
50	50	HDR UNBIAS	101.7	99.876	-1.8261
71	0	CORRELATION	102.79	103.15	0.3645
72	0	CORRELATION	101.69	102.01	0.315
73	0	CORRELATION	100.59	100.84	0.2567

### TID vs Post - Pre Exposure Delta



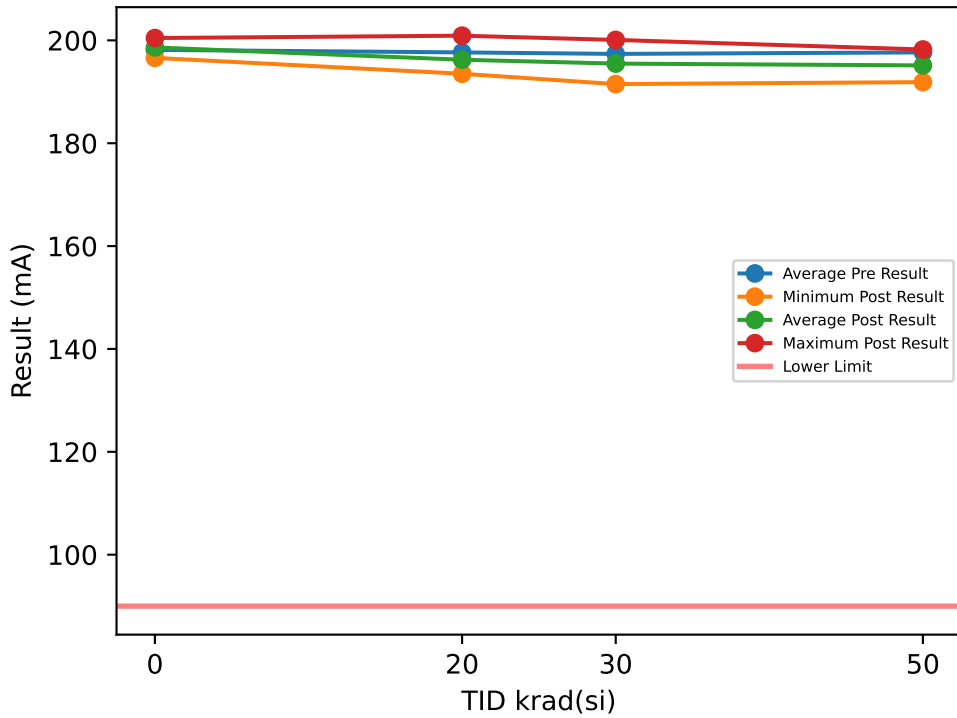
### Test Statistics (mA)

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	100.59	101.69	102.79	1.0996	100.84	102	103.15	1.1535	0.2567	0.31207	0.3645	0.05396
20	98.948	101.12	104.59	1.6734	97.938	100.28	103.81	1.6692	-1.0586	-0.83328	-0.6263	0.15386
30	98.6	100.83	104.29	1.8184	97.59	99.65	103.21	1.7881	-1.5695	-1.179	-0.8583	0.22259
50	98.836	100.98	102.23	1.0039	97.198	99.413	100.62	1.0407	-1.9299	-1.5706	-0.9738	0.31502



# Device Test: 15.31 VLDO|ILIM\_VLDO/VLDO/7/7/0/0/4.5/500kHz//@V\_LDO\_ILIM\_4P5\_7

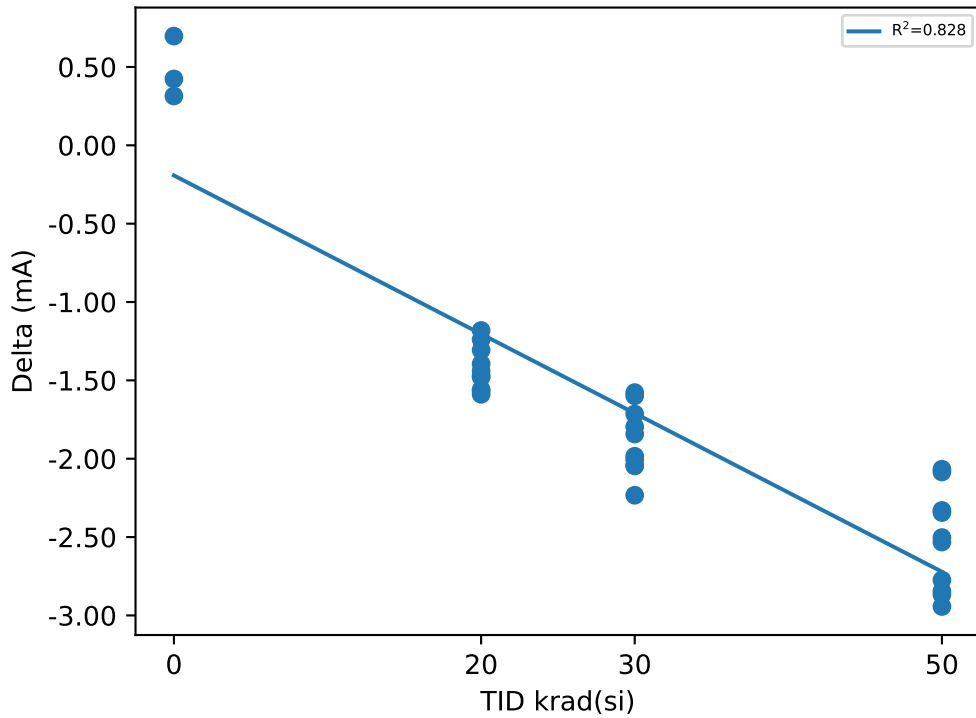
### TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	196.1	194.66	-1.4393
22	20	HDR BIAS	198.77	197.38	-1.3943
23	20	HDR BIAS	195.09	193.51	-1.589
24	20	HDR BIAS	197.28	195.72	-1.559
25	20	HDR BIAS	198.17	196.7	-1.4723
26	20	HDR UNBIAS	196.93	195.75	-1.1815
27	20	HDR UNBIAS	196.78	195.3	-1.4792
28	20	HDR UNBIAS	202.15	200.91	-1.2396
29	20	HDR UNBIAS	195.7	194.39	-1.3068
30	20	HDR UNBIAS	199.61	198.04	-1.5663
31	30	HDR BIAS	193.34	191.5	-1.8425
32	30	HDR BIAS	196.08	194.09	-1.9843
33	30	HDR BIAS	202.13	200.09	-2.0458
34	30	HDR BIAS	201.35	199.56	-1.796
35	30	HDR BIAS	197.02	194.79	-2.2332
36	30	HDR UNBIAS	197.04	195.04	-2.0058
37	30	HDR UNBIAS	195.58	193.98	-1.5983
38	30	HDR UNBIAS	195.74	194.02	-1.7145
39	30	HDR UNBIAS	197.98	195.94	-2.0432
40	30	HDR UNBIAS	197.4	195.82	-1.5779
41	50	HDR BIAS	198.29	195.75	-2.5318
42	50	HDR BIAS	195.3	192.45	-2.8448
43	50	HDR BIAS	200.73	198.23	-2.503
44	50	HDR BIAS	198.3	195.43	-2.8667
45	50	HDR BIAS	197.71	194.77	-2.9431
46	50	HDR UNBIAS	194.21	191.88	-2.3297
47	50	HDR UNBIAS	198.58	196.52	-2.0668
48	50	HDR UNBIAS	197.11	194.76	-2.3435
49	50	HDR UNBIAS	197.71	195.63	-2.0847
50	50	HDR UNBIAS	198.68	195.91	-2.774
71	0	CORRELATION	199.76	200.45	0.6971
72	0	CORRELATION	198.52	198.84	0.3148
73	0	CORRELATION	196.17	196.59	0.4236

### TID vs Post - Pre Exposure Delta

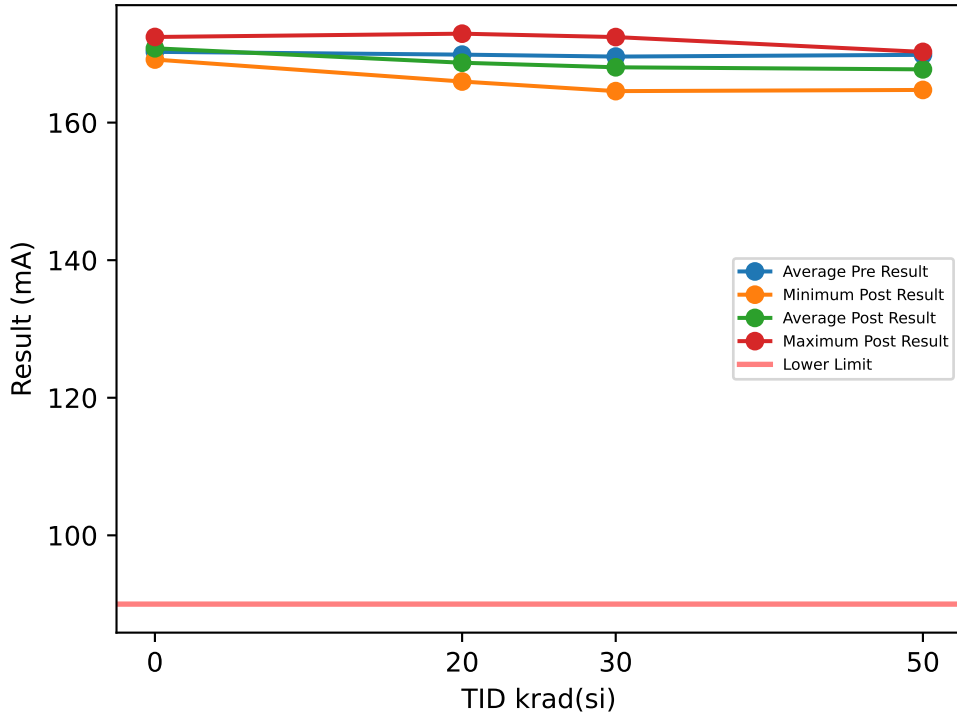


### Test Statistics (mA)

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	196.17	198.15	199.76	1.8217	196.59	198.63	200.45	1.9382	0.3148	0.4785	0.6971	0.19697
20	195.09	197.66	202.15	2.1015	193.51	196.24	200.91	2.1428	-1.589	-1.4227	-1.1815	0.14092
30	193.34	197.37	202.13	2.6446	191.5	195.48	200.09	2.6036	-2.2332	-1.8841	-1.5779	0.21393
50	194.21	197.66	200.73	1.823	191.88	195.13	198.23	1.851	-2.9431	-2.5288	-2.0668	0.32165

# Device Test: 15.32 VLDO|ILIM\_VLDO/VLDO/7/7/0/0/5/500kHz//@V\_LDO\_ILIM\_5\_7

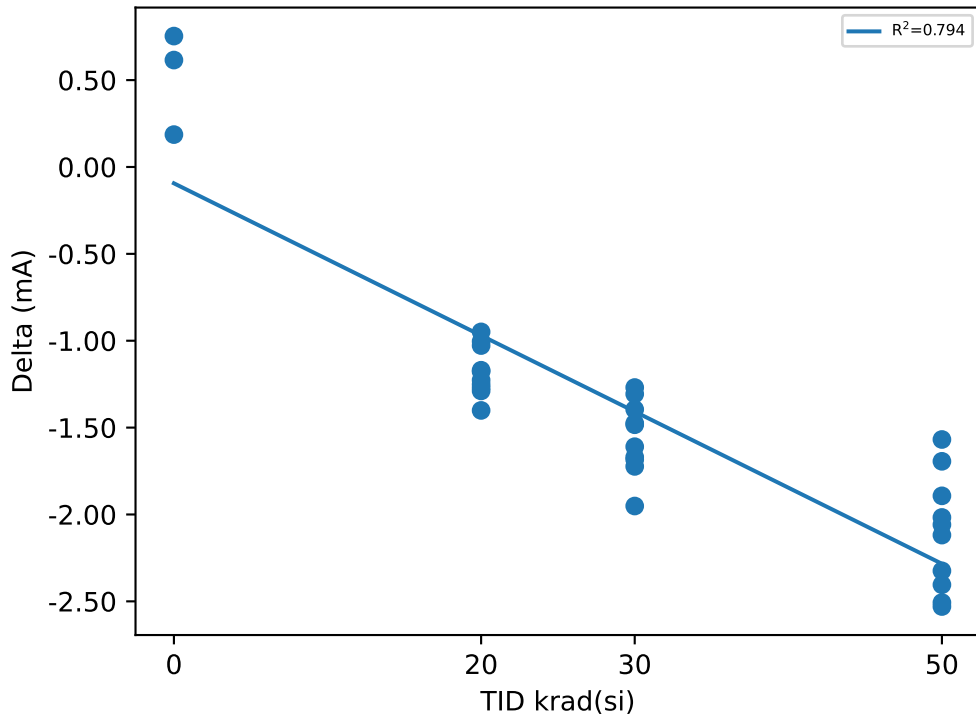
### TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	168.52	167.34	-1.1773
22	20	HDR BIAS	170.91	169.74	-1.1698
23	20	HDR BIAS	167.37	165.97	-1.4011
24	20	HDR BIAS	169.72	168.47	-1.2514
25	20	HDR BIAS	170.12	168.83	-1.2888
26	20	HDR UNBIAS	169.09	168.14	-0.9491
27	20	HDR UNBIAS	169.37	168.14	-1.2266
28	20	HDR UNBIAS	173.96	172.93	-1.0277
29	20	HDR UNBIAS	167.9	166.9	-1.0035
30	20	HDR UNBIAS	171.85	170.58	-1.2713
31	30	HDR BIAS	166.06	164.58	-1.4835
32	30	HDR BIAS	168.28	166.59	-1.684
33	30	HDR BIAS	174.04	172.43	-1.6099
34	30	HDR BIAS	172.95	171.48	-1.4748
35	30	HDR BIAS	169.51	167.55	-1.9513
36	30	HDR UNBIAS	169.5	167.83	-1.6696
37	30	HDR UNBIAS	167.76	166.45	-1.3066
38	30	HDR UNBIAS	168.07	166.68	-1.3953
39	30	HDR UNBIAS	170.25	168.53	-1.7233
40	30	HDR UNBIAS	169.56	168.29	-1.2693
41	50	HDR BIAS	170.3	168.24	-2.0585
42	50	HDR BIAS	167.98	165.58	-2.4044
43	50	HDR BIAS	172.4	170.28	-2.1186
44	50	HDR BIAS	170.39	167.89	-2.5071
45	50	HDR BIAS	170.16	167.63	-2.5297
46	50	HDR UNBIAS	166.77	164.75	-2.0171
47	50	HDR UNBIAS	170.6	168.91	-1.694
48	50	HDR UNBIAS	169.6	167.7	-1.8927
49	50	HDR UNBIAS	169.72	168.16	-1.5684
50	50	HDR UNBIAS	170.6	168.27	-2.3244
71	0	CORRELATION	171.69	172.45	0.7534
72	0	CORRELATION	170.61	170.8	0.1864
73	0	CORRELATION	168.55	169.17	0.6154

### TID vs Post - Pre Exposure Delta

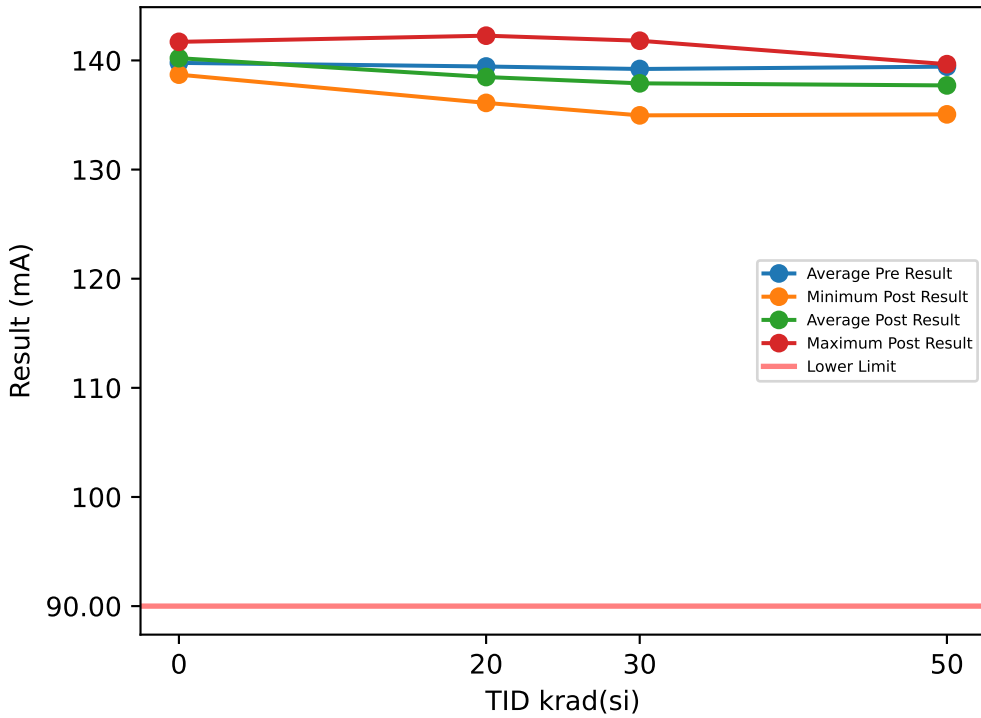


### Test Statistics (mA)

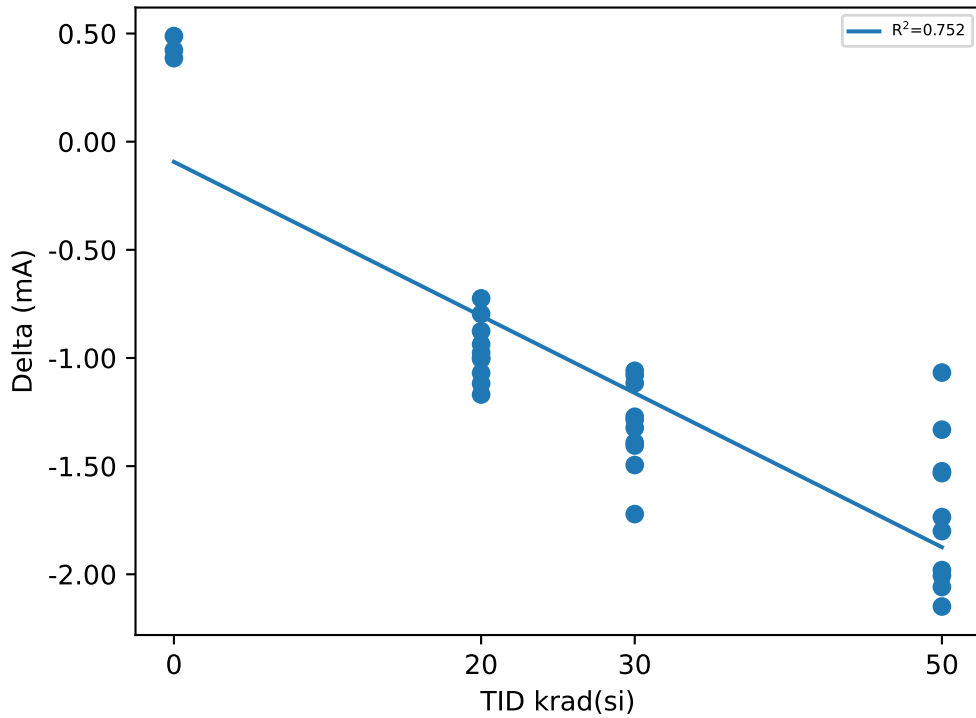
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	168.55	170.29	171.69	1.5967	169.17	170.8	172.45	1.6405	0.1864	0.5184	0.7534	0.29568
20	167.37	169.88	173.96	1.9599	165.97	168.7	172.93	1.9921	-1.4011	-1.1767	-0.9491	0.14298
30	166.06	169.6	174.04	2.3904	164.58	168.04	172.43	2.3608	-1.9513	-1.5568	-1.2693	0.21043
50	166.77	169.85	172.4	1.5381	164.75	167.74	170.28	1.5699	-2.5297	-2.1115	-1.5684	0.3319

# Device Test: 15.33 VLDO|ILIM\_VLDO/VLDO/7/7/0/0/5.5/500kHz//@V\_LDO\_ILIM\_5P5\_7

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



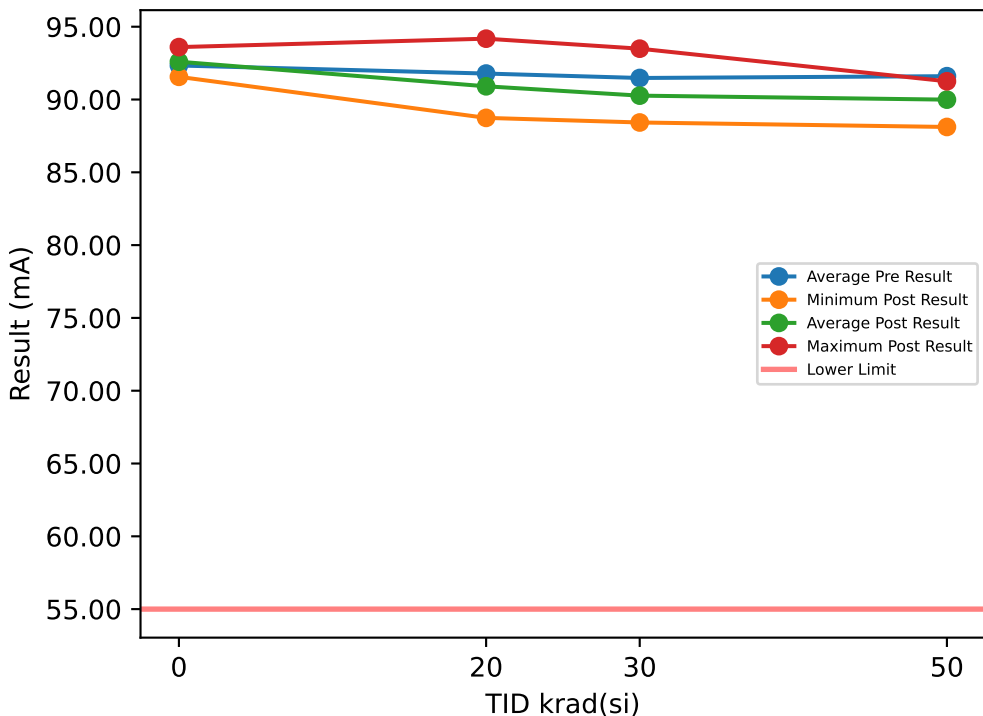
### Test Results (Lower Limit = 90.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	138.04	137.1	-0.9364
22	20	HDR BIAS	140.46	139.46	-1.0048
23	20	HDR BIAS	137.28	136.11	-1.1689
24	20	HDR BIAS	139.26	138.28	-0.9758
25	20	HDR BIAS	139.47	138.35	-1.118
26	20	HDR UNBIAS	138.81	138.09	-0.7244
27	20	HDR UNBIAS	139.03	138.03	-0.9984
28	20	HDR UNBIAS	143.14	142.27	-0.8766
29	20	HDR UNBIAS	137.75	136.96	-0.7963
30	20	HDR UNBIAS	141.2	140.13	-1.0694
31	30	HDR BIAS	136.24	134.97	-1.2718
32	30	HDR BIAS	138.09	136.68	-1.4046
33	30	HDR BIAS	143.09	141.81	-1.2842
34	30	HDR BIAS	141.97	140.65	-1.323
35	30	HDR BIAS	139.62	137.9	-1.7217
36	30	HDR UNBIAS	139.07	137.68	-1.3912
37	30	HDR UNBIAS	137.29	136.23	-1.0593
38	30	HDR UNBIAS	138.04	136.93	-1.1165
39	30	HDR UNBIAS	139.6	138.11	-1.4949
40	30	HDR UNBIAS	139.14	138.06	-1.0792
41	50	HDR BIAS	139.91	138.38	-1.5323
42	50	HDR BIAS	137.81	135.81	-2.0063
43	50	HDR BIAS	141.46	139.66	-1.8004
44	50	HDR BIAS	140.11	137.96	-2.149
45	50	HDR BIAS	139.67	137.61	-2.0587
46	50	HDR UNBIAS	136.79	135.06	-1.7358
47	50	HDR UNBIAS	140.16	138.82	-1.3315
48	50	HDR UNBIAS	139.19	137.67	-1.5238
49	50	HDR UNBIAS	139.07	138	-1.0674
50	50	HDR UNBIAS	140.13	138.15	-1.9807
71	0	CORRELATION	141.21	141.7	0.4882
72	0	CORRELATION	139.8	140.22	0.4234
73	0	CORRELATION	138.31	138.7	0.3862

### 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	138.31	139.78	141.21	1.4519	138.7	140.21	141.7	1.5028	0.3862	0.4326	0.4882	0.051619
20	137.28	139.44	143.14	1.7628	136.11	138.48	142.27	1.7732	-1.1689	-0.9669	-0.7244	0.1389
30	136.24	139.22	143.09	2.0592	134.97	137.9	141.81	2.0206	-1.7217	-1.3146	-1.0593	0.20409
50	136.79	139.43	141.46	1.3175	135.06	137.71	139.66	1.3532	-2.149	-1.7186	-1.0674	0.35054

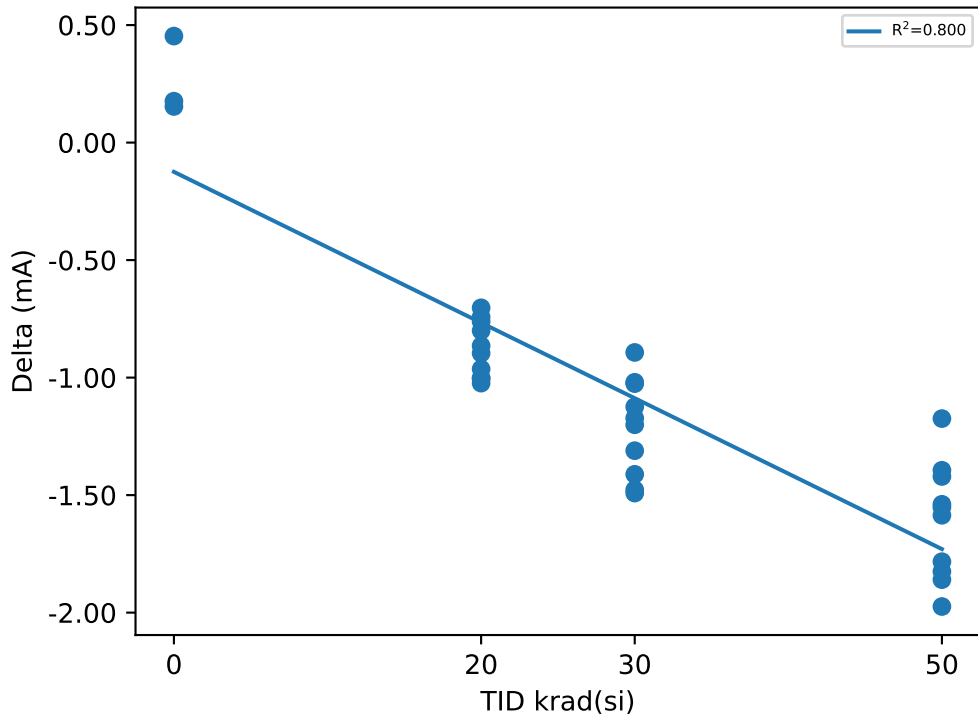
TID vs Result Stats



Test Results (Lower Limit = 55.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	90.739	89.977	-0.7615
22	20	HDR BIAS	92.466	91.503	-0.9635
23	20	HDR BIAS	89.741	88.739	-1.0023
24	20	HDR BIAS	92.106	91.21	-0.8962
25	20	HDR BIAS	91.914	90.891	-1.0235
26	20	HDR UNBIAS	91.535	90.832	-0.703
27	20	HDR UNBIAS	91.147	90.282	-0.8647
28	20	HDR UNBIAS	94.92	94.178	-0.7415
29	20	HDR UNBIAS	90.13	89.33	-0.8003
30	20	HDR UNBIAS	93.139	92.137	-1.0026
31	30	HDR BIAS	89.448	88.423	-1.0256
32	30	HDR BIAS	90.49	89.179	-1.3109
33	30	HDR BIAS	94.665	93.492	-1.1724
34	30	HDR BIAS	93.992	92.791	-1.2006
35	30	HDR BIAS	91.815	90.323	-1.4914
36	30	HDR UNBIAS	90.987	89.576	-1.4115
37	30	HDR UNBIAS	89.881	88.861	-1.0199
38	30	HDR UNBIAS	90.499	89.375	-1.1243
39	30	HDR UNBIAS	91.602	90.124	-1.4774
40	30	HDR UNBIAS	91.413	90.521	-0.8929
41	50	HDR BIAS	92.18	90.786	-1.3942
42	50	HDR BIAS	90.651	88.826	-1.825
43	50	HDR BIAS	92.804	91.252	-1.5519
44	50	HDR BIAS	91.91	90.127	-1.7833
45	50	HDR BIAS	91.923	89.949	-1.974
46	50	HDR UNBIAS	89.701	88.115	-1.5858
47	50	HDR UNBIAS	91.801	90.38	-1.4207
48	50	HDR UNBIAS	91.367	89.828	-1.5391
49	50	HDR UNBIAS	91.434	90.26	-1.1744
50	50	HDR UNBIAS	92.256	90.396	-1.8597
71	0	CORRELATION	93.147	93.6	0.4532
72	0	CORRELATION	92.479	92.632	0.1537
73	0	CORRELATION	91.383	91.559	0.1762

TID vs Post - Pre Exposure Delta

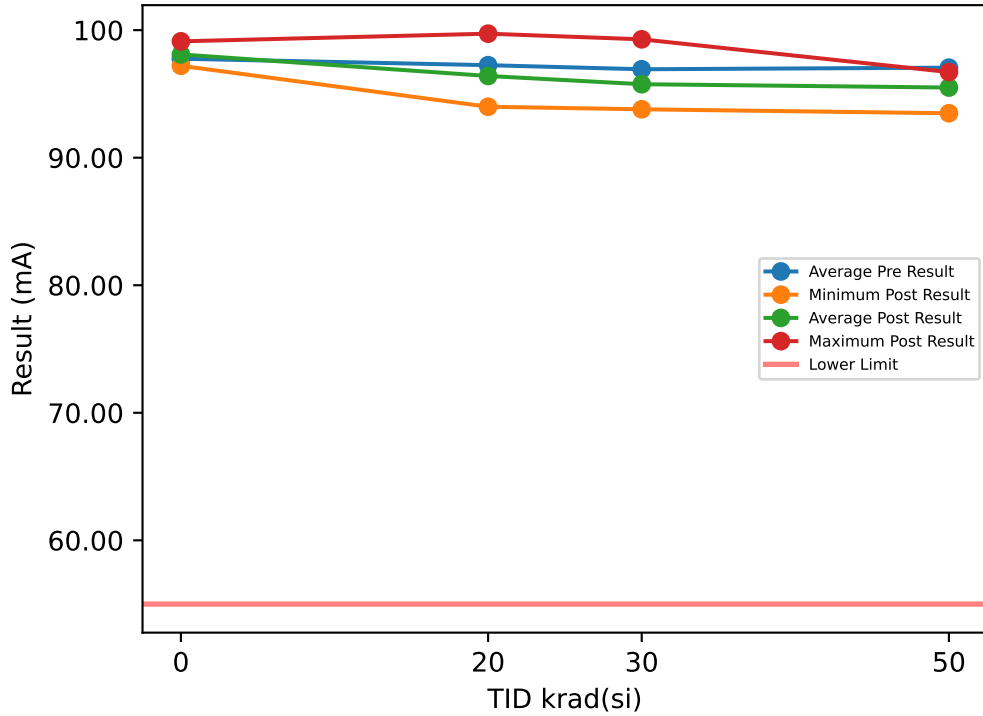


Test Statistics (mA)

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	91.383	92.336	93.147	0.8906	91.559	92.597	93.6	1.021	0.1537	0.26103	0.4532	0.1668
20	89.741	91.784	94.92	1.5175	88.739	90.908	94.178	1.5315	-1.0235	-0.87591	-0.703	0.11962
30	89.448	91.479	94.665	1.6817	88.423	90.267	93.492	1.6566	-1.4914	-1.2127	-0.8929	0.20573
50	89.701	91.603	92.804	0.88478	88.115	89.992	91.252	0.91486	-1.974	-1.6108	-1.1744	0.24771

# Device Test: 15.35 VLDO|ILIM\_VLDO\_SWEEP/VLDO/6/6/0/0/5/500kHz//@V\_LDO\_ILIM\_5\_PLUS\_1

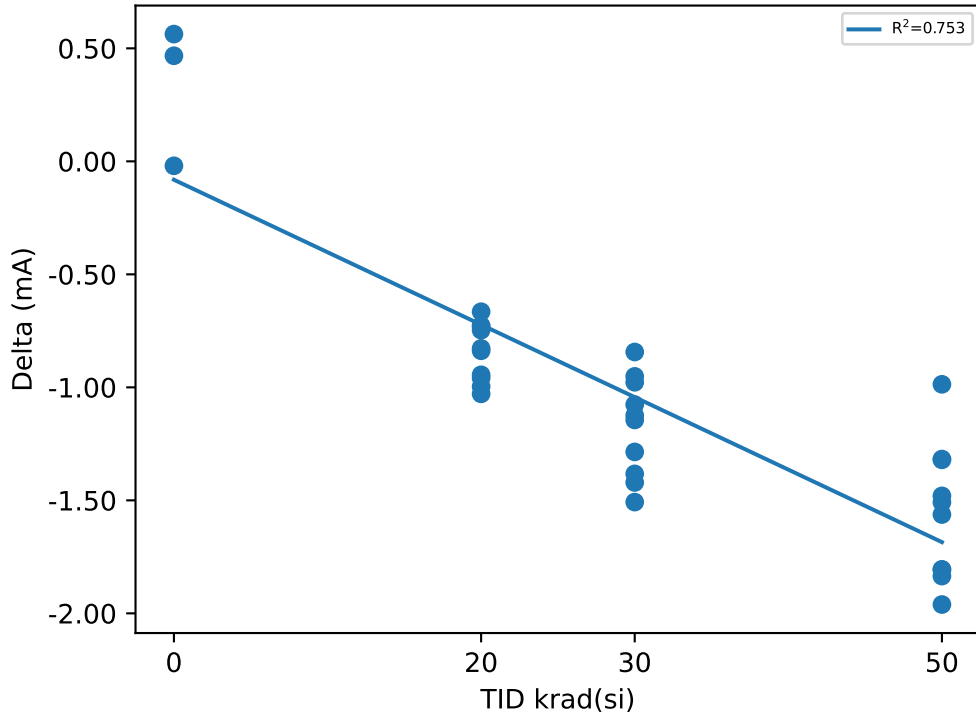
### TID vs Result Stats



### Test Results (Lower Limit = 55.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	96.271	95.524	-0.7469
22	20	HDR BIAS	97.949	96.991	-0.9588
23	20	HDR BIAS	94.99	93.994	-0.9965
24	20	HDR BIAS	97.691	96.863	-0.8277
25	20	HDR BIAS	97.242	96.213	-1.0288
26	20	HDR UNBIAS	96.844	96.179	-0.6654
27	20	HDR UNBIAS	96.846	96.008	-0.8382
28	20	HDR UNBIAS	100.45	99.723	-0.7318
29	20	HDR UNBIAS	95.4	94.673	-0.7268
30	20	HDR UNBIAS	98.846	97.901	-0.9445
31	30	HDR BIAS	94.772	93.795	-0.9776
32	30	HDR BIAS	95.787	94.501	-1.2857
33	30	HDR BIAS	100.4	99.281	-1.1241
34	30	HDR BIAS	99.347	98.203	-1.1443
35	30	HDR BIAS	97.331	95.823	-1.5077
36	30	HDR UNBIAS	96.674	95.291	-1.3829
37	30	HDR UNBIAS	95.129	94.177	-0.9515
38	30	HDR UNBIAS	95.833	94.757	-1.0764
39	30	HDR UNBIAS	97.249	95.828	-1.4209
40	30	HDR UNBIAS	96.8	95.956	-0.8436
41	50	HDR BIAS	97.514	96.194	-1.3208
42	50	HDR BIAS	96.246	94.411	-1.8351
43	50	HDR BIAS	98.222	96.713	-1.5088
44	50	HDR BIAS	97.36	95.554	-1.8061
45	50	HDR BIAS	97.589	95.628	-1.9609
46	50	HDR UNBIAS	95.047	93.484	-1.5627
47	50	HDR UNBIAS	97.214	95.896	-1.3173
48	50	HDR UNBIAS	97.024	95.543	-1.4802
49	50	HDR UNBIAS	96.77	95.784	-0.9866
50	50	HDR UNBIAS	97.604	95.798	-1.806
71	0	CORRELATION	98.56	99.123	0.5631
72	0	CORRELATION	97.982	97.962	-0.0197
73	0	CORRELATION	96.737	97.204	0.4672

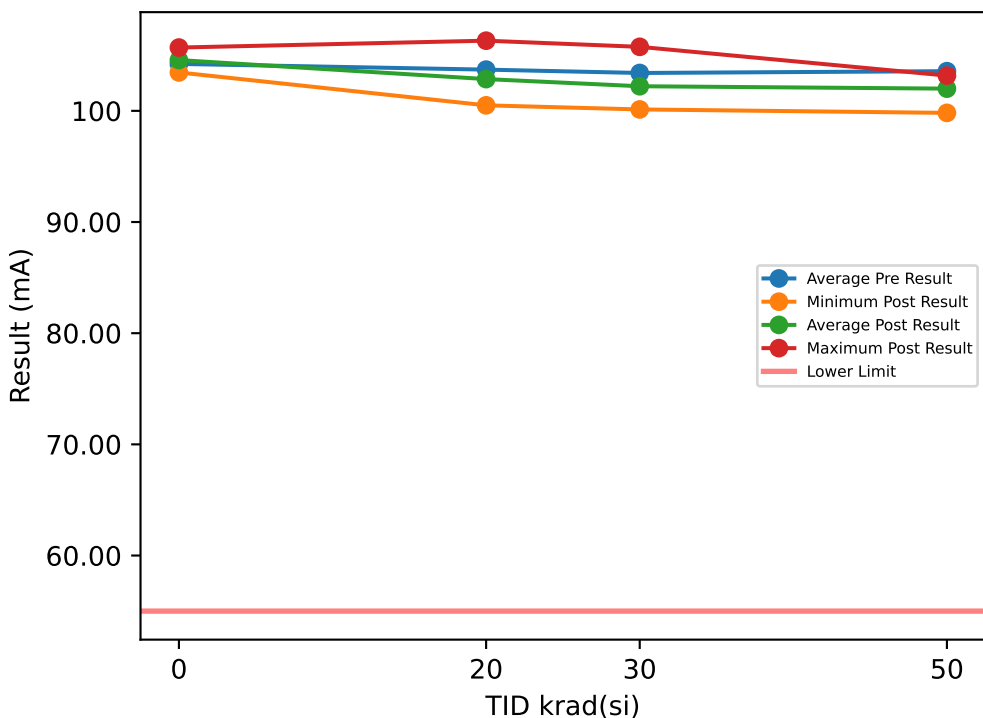
### TID vs Post - Pre Exposure Delta



### 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	96.737	97.759	98.56	0.93144	97.204	98.096	99.123	0.96634	-0.0197	0.33687	0.5631	0.3125
20	94.99	97.253	100.45	1.6096	93.994	96.407	99.723	1.6206	-1.0288	-0.84654	-0.6654	0.12848
30	94.772	96.933	100.4	1.7849	93.795	95.761	99.281	1.7509	-1.5077	-1.1715	-0.8436	0.22073
50	95.047	97.059	98.222	0.88486	93.484	95.501	96.713	0.91591	-1.9609	-1.5585	-0.9866	0.30025

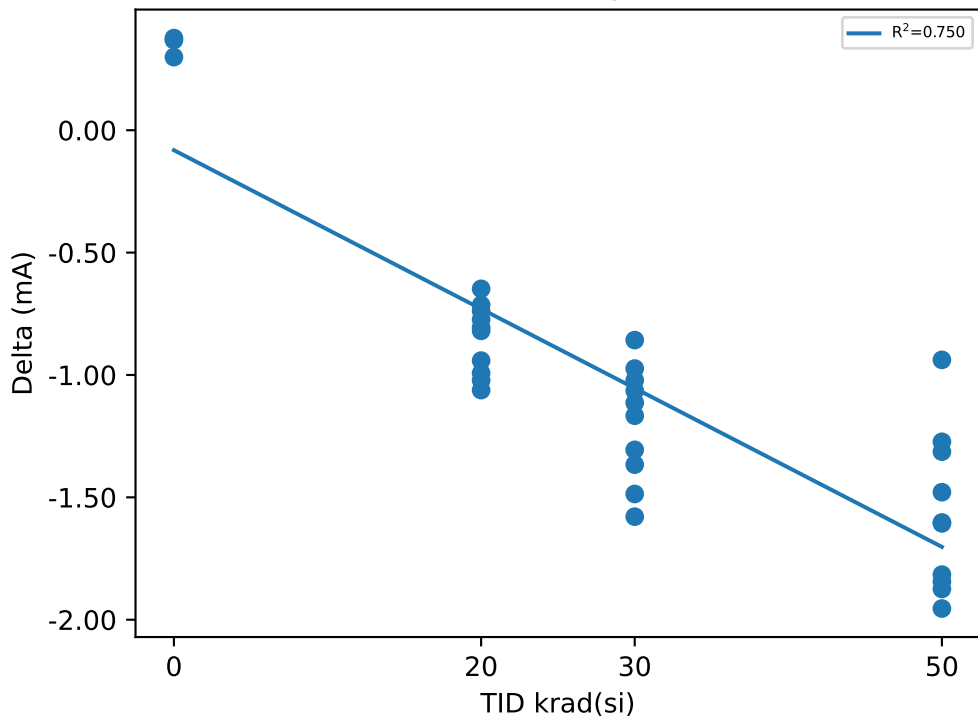
TID vs Result Stats



Test Results (Lower Limit = 55.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	102.49	101.75	-0.7383
22	20	HDR BIAS	104.52	103.53	-0.9922
23	20	HDR BIAS	101.52	100.5	-1.0221
24	20	HDR BIAS	103.99	103.17	-0.8197
25	20	HDR BIAS	103.63	102.57	-1.0619
26	20	HDR UNBIAS	103.46	102.81	-0.648
27	20	HDR UNBIAS	103.19	102.39	-0.8059
28	20	HDR UNBIAS	107.09	106.31	-0.7734
29	20	HDR UNBIAS	101.95	101.24	-0.7138
30	20	HDR UNBIAS	105.26	104.32	-0.9413
31	30	HDR BIAS	101.15	100.13	-1.0216
32	30	HDR BIAS	102.39	101.08	-1.3059
33	30	HDR BIAS	106.87	105.76	-1.1137
34	30	HDR BIAS	105.85	104.68	-1.1665
35	30	HDR BIAS	104.11	102.53	-1.5789
36	30	HDR UNBIAS	102.99	101.62	-1.3663
37	30	HDR UNBIAS	101.46	100.48	-0.9737
38	30	HDR UNBIAS	102.42	101.35	-1.0647
39	30	HDR UNBIAS	103.6	102.11	-1.4862
40	30	HDR UNBIAS	103.25	102.39	-0.8575
41	50	HDR BIAS	104.19	102.87	-1.3133
42	50	HDR BIAS	102.51	100.67	-1.8439
43	50	HDR BIAS	104.77	103.17	-1.6026
44	50	HDR BIAS	104.1	102.22	-1.8743
45	50	HDR BIAS	103.93	101.98	-1.9542
46	50	HDR UNBIAS	101.42	99.818	-1.6064
47	50	HDR UNBIAS	103.92	102.64	-1.273
48	50	HDR UNBIAS	103.39	101.91	-1.4789
49	50	HDR UNBIAS	103.18	102.25	-0.9382
50	50	HDR UNBIAS	104.27	102.45	-1.8156
71	0	CORRELATION	105.33	105.69	0.3684
72	0	CORRELATION	104.18	104.56	0.3765
73	0	CORRELATION	103.16	103.46	0.2987

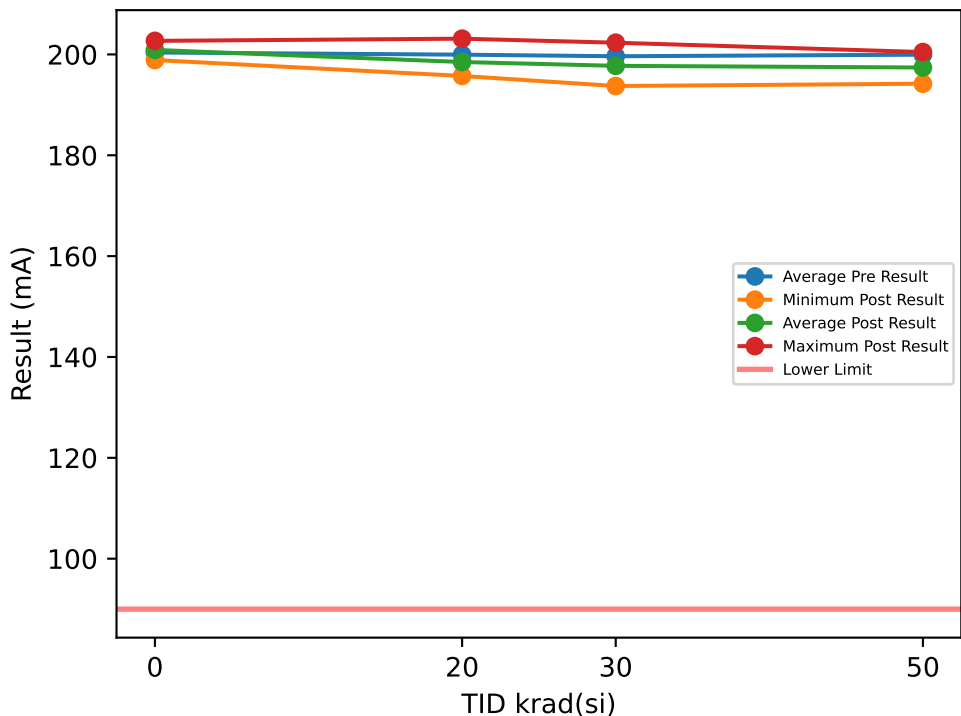
TID vs Post - Pre Exposure Delta



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	103.16	104.22	105.33	1.0851	103.46	104.57	105.69	1.1194	0.2987	0.34787	0.3765	0.042772
20	101.52	103.71	107.09	1.641	100.5	102.86	106.31	1.6443	-1.0619	-0.85166	-0.648	0.14283
30	101.15	103.41	106.87	1.8139	100.13	102.21	105.76	1.7799	-1.5789	-1.1935	-0.8575	0.23361
50	101.42	103.57	104.77	0.98594	99.818	102	103.17	1.0222	-1.9542	-1.57	-0.9382	0.32309

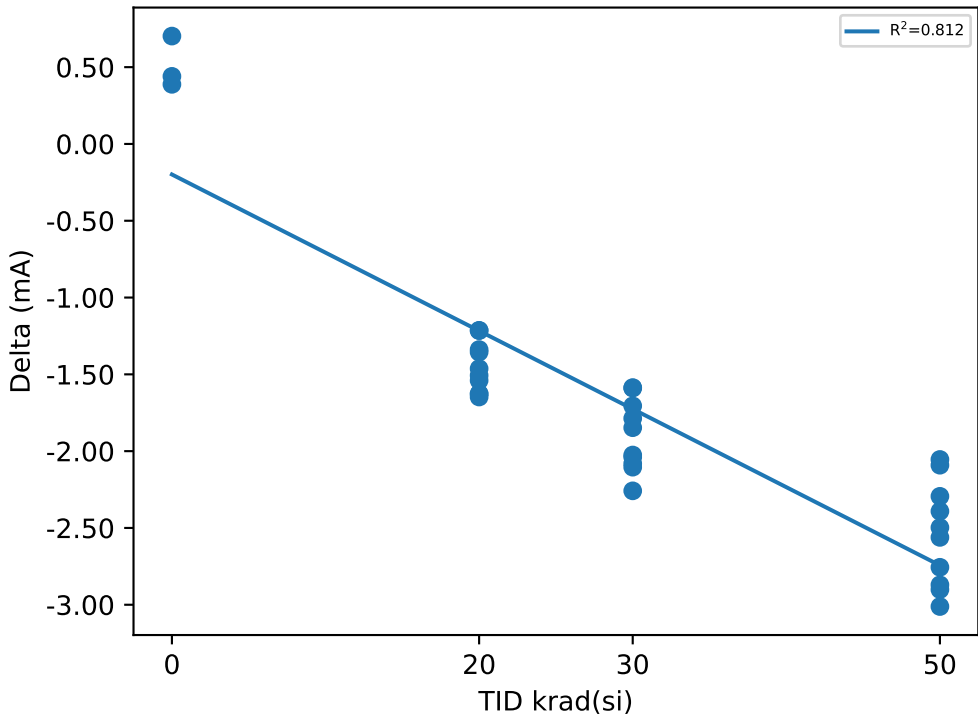
TID vs Result Stats



Test Results (Lower Limit = 90.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	198.46	196.96	-1.5073
22	20	HDR BIAS	201.02	199.68	-1.3386
23	20	HDR BIAS	197.36	195.73	-1.6274
24	20	HDR BIAS	199.62	197.98	-1.6475
25	20	HDR BIAS	200.5	199.03	-1.4628
26	20	HDR UNBIAS	199.2	197.99	-1.2151
27	20	HDR UNBIAS	199.15	197.61	-1.5397
28	20	HDR UNBIAS	204.34	203.12	-1.2135
29	20	HDR UNBIAS	198	196.64	-1.3552
30	20	HDR UNBIAS	201.85	200.23	-1.626
31	30	HDR BIAS	195.59	193.74	-1.8473
32	30	HDR BIAS	198.4	196.37	-2.0252
33	30	HDR BIAS	204.41	202.33	-2.081
34	30	HDR BIAS	203.59	201.8	-1.7866
35	30	HDR BIAS	199.25	197	-2.2584
36	30	HDR UNBIAS	199.37	197.33	-2.0387
37	30	HDR UNBIAS	197.82	196.24	-1.5863
38	30	HDR UNBIAS	197.96	196.26	-1.7052
39	30	HDR UNBIAS	200.38	198.28	-2.1043
40	30	HDR UNBIAS	199.62	198.03	-1.5894
41	50	HDR BIAS	200.53	197.97	-2.5614
42	50	HDR BIAS	197.62	194.72	-2.901
43	50	HDR BIAS	202.97	200.47	-2.4974
44	50	HDR BIAS	200.62	197.75	-2.8704
45	50	HDR BIAS	200.04	197.03	-3.0115
46	50	HDR UNBIAS	196.49	194.19	-2.2941
47	50	HDR UNBIAS	200.86	198.77	-2.0915
48	50	HDR UNBIAS	199.37	196.98	-2.3912
49	50	HDR UNBIAS	200.06	198	-2.0541
50	50	HDR UNBIAS	200.94	198.19	-2.7561
71	0	CORRELATION	201.99	202.69	0.7023
72	0	CORRELATION	200.72	201.1	0.3882
73	0	CORRELATION	198.45	198.89	0.4401

TID vs Post - Pre Exposure Delta

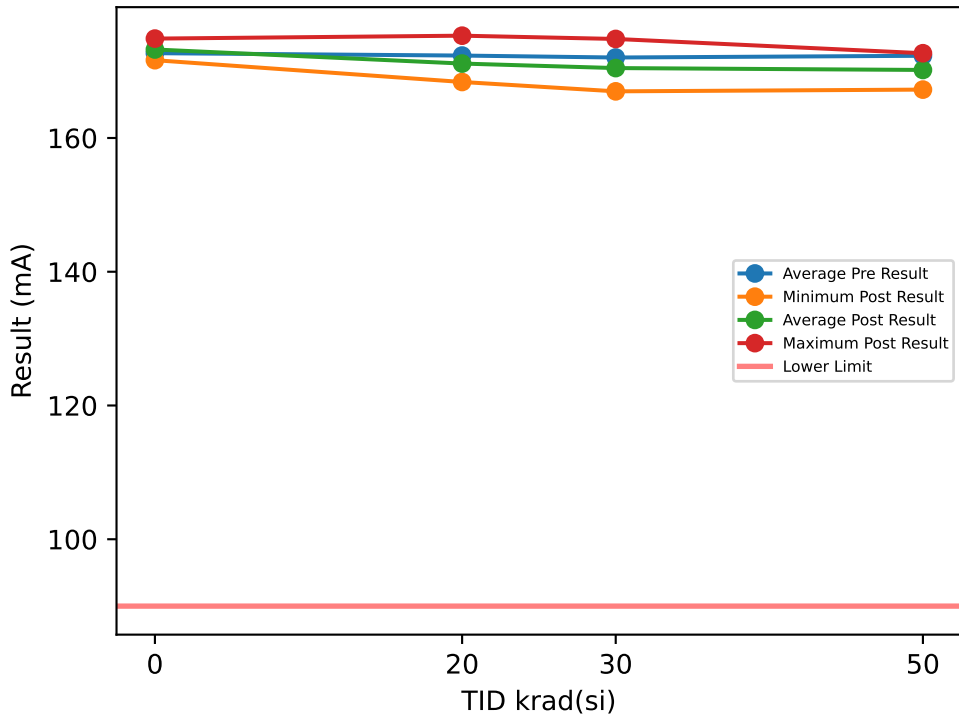


Test Statistics (mA)

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	198.45	200.38	201.99	1.7931	198.89	200.89	202.69	1.9097	0.3882	0.5102	0.7023	0.16838
20	197.36	199.95	204.34	2.0643	195.73	198.5	203.12	2.1309	-1.6475	-1.4533	-1.2135	0.16511
30	195.59	199.64	204.41	2.6495	193.74	197.74	202.33	2.6026	-2.2584	-1.9022	-1.5863	0.23245
50	196.49	199.95	202.97	1.8098	194.19	197.41	200.47	1.8411	-3.0115	-2.5429	-2.0541	0.33839



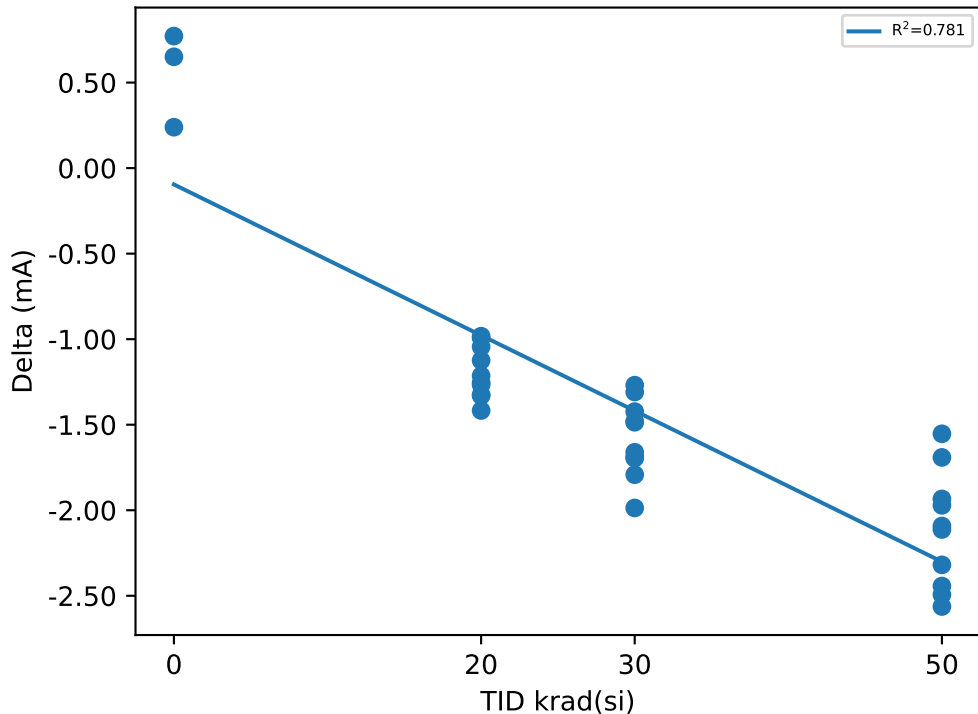
TID vs Result Stats



Test Results (Lower Limit = 90.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	171.02	169.8	-1.2139
22	20	HDR BIAS	173.31	172.19	-1.1243
23	20	HDR BIAS	169.79	168.38	-1.4171
24	20	HDR BIAS	172.23	170.9	-1.3303
25	20	HDR BIAS	172.62	171.35	-1.2669
26	20	HDR UNBIAS	171.51	170.52	-0.9927
27	20	HDR UNBIAS	171.89	170.63	-1.2546
28	20	HDR UNBIAS	176.28	175.3	-0.9826
29	20	HDR UNBIAS	170.35	169.31	-1.0443
30	20	HDR UNBIAS	174.26	172.93	-1.3254
31	30	HDR BIAS	168.46	166.98	-1.4857
32	30	HDR BIAS	170.76	169.07	-1.6904
33	30	HDR BIAS	176.47	174.81	-1.6613
34	30	HDR BIAS	175.33	173.85	-1.4807
35	30	HDR BIAS	171.91	169.92	-1.9867
36	30	HDR UNBIAS	171.97	170.27	-1.6955
37	30	HDR UNBIAS	170.19	168.88	-1.309
38	30	HDR UNBIAS	170.5	169.07	-1.4234
39	30	HDR UNBIAS	172.82	171.03	-1.7921
40	30	HDR UNBIAS	171.93	170.66	-1.2689
41	50	HDR BIAS	172.69	170.59	-2.0923
42	50	HDR BIAS	170.47	168.02	-2.4432
43	50	HDR BIAS	174.79	172.67	-2.1127
44	50	HDR BIAS	172.84	170.35	-2.4934
45	50	HDR BIAS	172.64	170.07	-2.5628
46	50	HDR UNBIAS	169.21	167.24	-1.9714
47	50	HDR UNBIAS	173.02	171.33	-1.6912
48	50	HDR UNBIAS	172.02	170.09	-1.9339
49	50	HDR UNBIAS	172.23	170.67	-1.5531
50	50	HDR UNBIAS	173.02	170.7	-2.3193
71	0	CORRELATION	174.09	174.86	0.7718
72	0	CORRELATION	172.97	173.21	0.2391
73	0	CORRELATION	170.98	171.64	0.6507

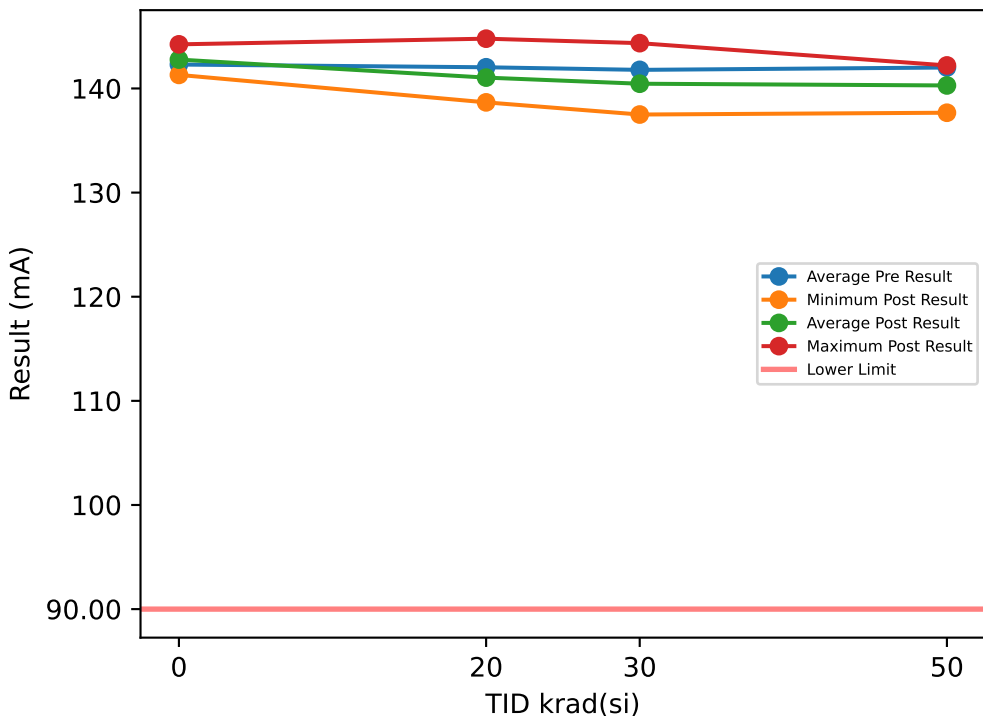
TID vs Post - Pre Exposure Delta



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	170.98	172.68	174.09	1.5729	171.64	173.24	174.86	1.6138	0.2391	0.55387	0.7718	0.27924
20	169.79	172.33	176.28	1.9248	168.38	171.13	175.3	1.9763	-1.4171	-1.1952	-0.9826	0.15183
30	168.46	172.03	176.47	2.3891	166.98	170.46	174.81	2.3476	-1.9867	-1.5794	-1.2689	0.2251
50	169.21	172.29	174.79	1.5199	167.24	170.17	172.67	1.5492	-2.5628	-2.1173	-1.5531	0.34032

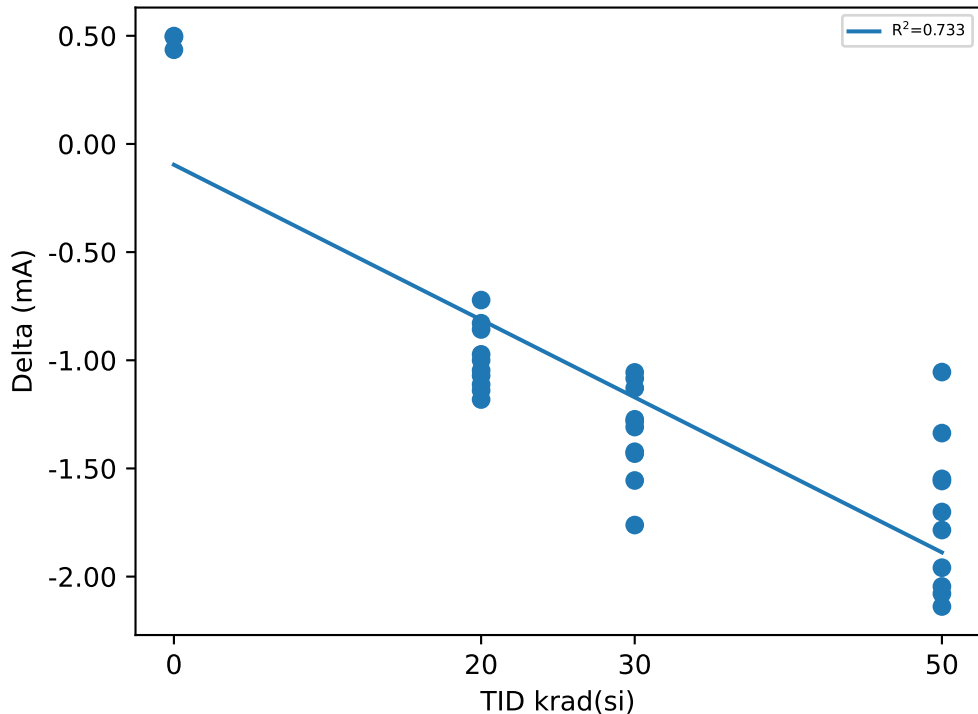
TID vs Result Stats



Test Results (Lower Limit = 90.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	140.68	139.71	-0.9726
22	20	HDR BIAS	143.03	142.03	-1.0001
23	20	HDR BIAS	139.85	138.66	-1.1815
24	20	HDR BIAS	141.92	140.85	-1.0713
25	20	HDR BIAS	142.11	140.97	-1.1395
26	20	HDR UNBIAS	141.36	140.64	-0.7217
27	20	HDR UNBIAS	141.7	140.65	-1.0462
28	20	HDR UNBIAS	145.64	144.78	-0.8576
29	20	HDR UNBIAS	140.34	139.51	-0.8287
30	20	HDR UNBIAS	143.74	142.63	-1.1119
31	30	HDR BIAS	138.77	137.5	-1.2728
32	30	HDR BIAS	140.7	139.28	-1.4228
33	30	HDR BIAS	145.66	144.35	-1.3087
34	30	HDR BIAS	144.48	143.2	-1.2821
35	30	HDR BIAS	142.16	140.4	-1.7617
36	30	HDR UNBIAS	141.69	140.26	-1.4316
37	30	HDR UNBIAS	139.85	138.79	-1.056
38	30	HDR UNBIAS	140.58	139.45	-1.1286
39	30	HDR UNBIAS	142.3	140.74	-1.5557
40	30	HDR UNBIAS	141.66	140.58	-1.0838
41	50	HDR BIAS	142.43	140.88	-1.5482
42	50	HDR BIAS	140.44	138.4	-2.0456
43	50	HDR BIAS	144	142.21	-1.7848
44	50	HDR BIAS	142.7	140.56	-2.1383
45	50	HDR BIAS	142.29	140.21	-2.0789
46	50	HDR UNBIAS	139.37	137.67	-1.7014
47	50	HDR UNBIAS	142.72	141.39	-1.3366
48	50	HDR UNBIAS	141.75	140.19	-1.5581
49	50	HDR UNBIAS	141.71	140.66	-1.0545
50	50	HDR UNBIAS	142.69	140.73	-1.9588
71	0	CORRELATION	143.74	144.24	0.4987
72	0	CORRELATION	142.29	142.78	0.4948
73	0	CORRELATION	140.87	141.3	0.4355

TID vs Post - Pre Exposure Delta

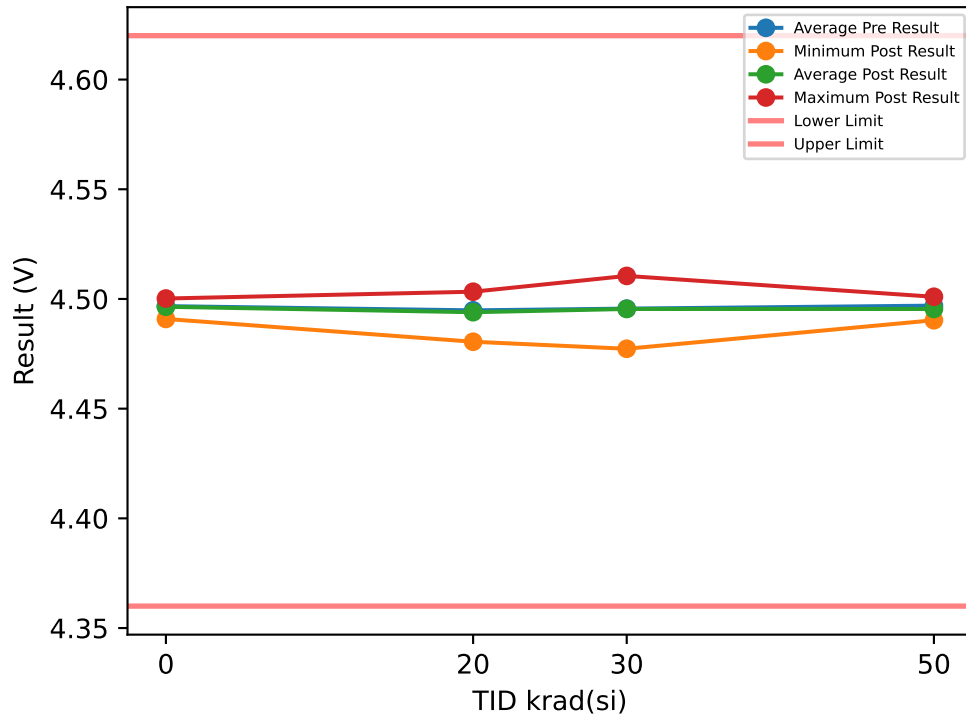


Test Statistics (mA)

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	140.87	142.3	143.74	1.4355	141.3	142.77	144.24	1.4671	0.4355	0.47633	0.4987	0.035416
20	139.85	142.04	145.64	1.7301	138.66	141.04	144.78	1.7504	-1.1815	-0.99311	-0.7217	0.14888
30	138.77	141.79	145.66	2.0603	137.5	140.46	144.35	2.0214	-1.7617	-1.3304	-1.056	0.22073
50	139.37	142.01	144	1.3005	137.67	140.29	142.21	1.3381	-2.1383	-1.7205	-1.0545	0.35229

# Device Test: 15.4 VLDO|V\_VLDO/VLDO/12/12/0/0/4.5/500kHz//@V\_LDO\_4P5

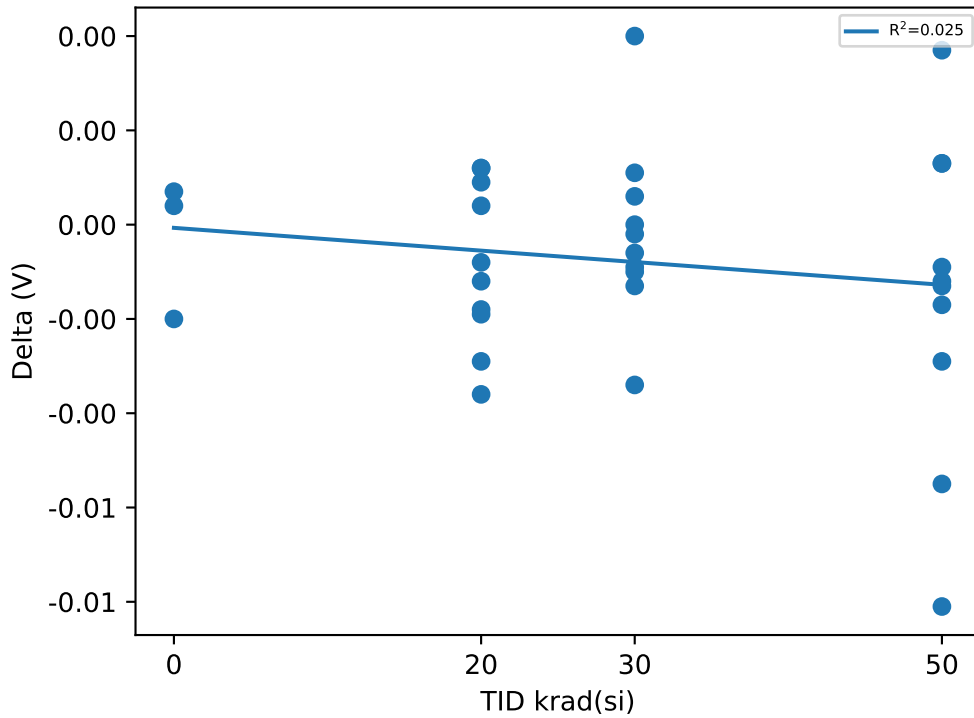
### TID vs Result Stats



### Test Results (Lower Limit = 4.36, Upper Limit = 4.62 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.502	4.4984	-0.0036
22	20	HDR BIAS	4.4889	4.4901	0.0012
23	20	HDR BIAS	4.5021	4.5033	0.0012
24	20	HDR BIAS	4.4928	4.4899	-0.0029
25	20	HDR BIAS	4.5011	4.502	0.0009
26	20	HDR UNBIAS	4.5013	4.4994	-0.0019
27	20	HDR UNBIAS	4.4905	4.4887	-0.0018
28	20	HDR UNBIAS	4.4801	4.4805	0.0004
29	20	HDR UNBIAS	4.5024	4.5012	-0.0012
30	20	HDR UNBIAS	4.4869	4.4861	-0.0008
31	30	HDR BIAS	4.5023	4.5014	-0.0009
32	30	HDR BIAS	4.5029	4.5027	-0.0002
33	30	HDR BIAS	4.4807	4.4773	-0.0034
34	30	HDR BIAS	4.4944	4.4944	0
35	30	HDR BIAS	4.4844	4.4884	0.004
36	30	HDR UNBIAS	4.4904	4.491	0.0006
37	30	HDR UNBIAS	4.5115	4.5105	-0.001
38	30	HDR UNBIAS	4.4966	4.4953	-0.0013
39	30	HDR UNBIAS	4.4972	4.4983	0.0011
40	30	HDR UNBIAS	4.4956	4.495	-0.0006
41	50	HDR BIAS	4.496	4.4905	-0.0055
42	50	HDR BIAS	4.4952	4.4943	-0.0009
43	50	HDR BIAS	4.4974	4.4962	-0.0012
44	50	HDR BIAS	4.4943	4.4956	0.0013
45	50	HDR BIAS	4.492	4.4903	-0.0017
46	50	HDR UNBIAS	4.4973	4.501	0.0037
47	50	HDR UNBIAS	4.4982	4.4969	-0.0013
48	50	HDR UNBIAS	4.4954	4.4925	-0.0029
49	50	HDR UNBIAS	4.5041	4.496	-0.0081
50	50	HDR UNBIAS	4.4997	4.501	0.0013
71	0	CORRELATION	4.4929	4.4909	-0.002
72	0	CORRELATION	4.4998	4.5002	0.0004
73	0	CORRELATION	4.4975	4.4982	0.0007

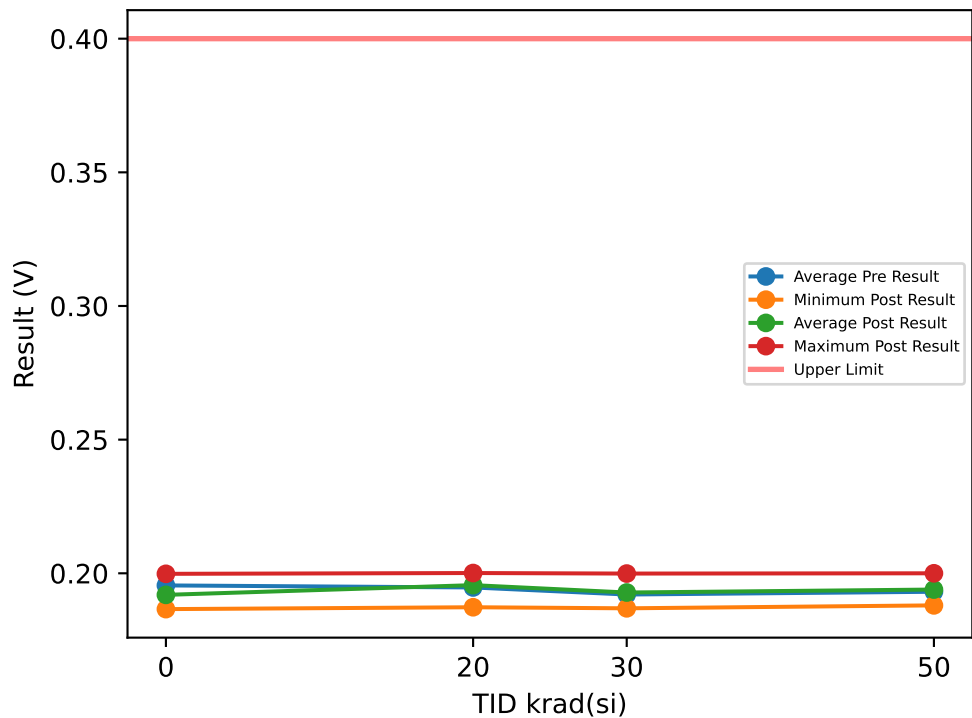
### TID vs Post - Pre Exposure Delta



### 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	4.4929	4.4967	4.4998	0.0035133	4.4909	4.4964	4.5002	0.0048952	-0.002	-0.0003	0.0007	0.0014799
20	4.4801	4.4948	4.5024	0.0080321	4.4805	4.494	4.5033	0.0078571	-0.0036	-0.00085	0.0012	0.0017296
30	4.4807	4.4956	4.5115	0.0090091	4.4773	4.4954	4.5105	0.0089619	-0.0034	-0.00017	0.004	0.0019073
50	4.492	4.497	4.5041	0.0033076	4.4903	4.4954	4.501	0.0037363	-0.0081	-0.00153	0.0037	0.0034118

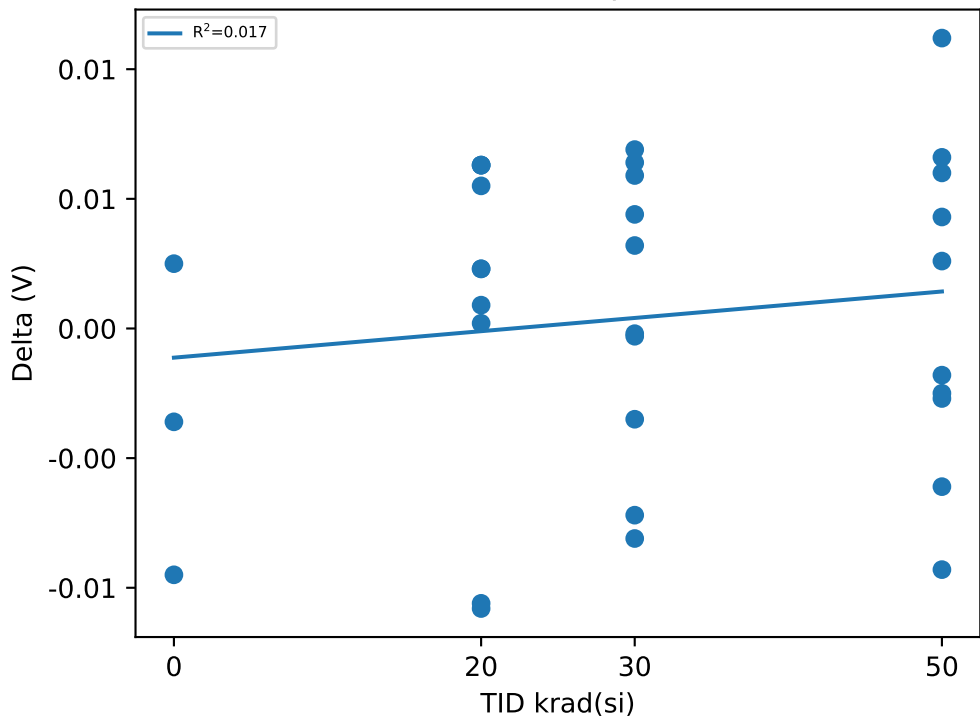
TID vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.193	0.1939	0.0009
22	20	HDR BIAS	0.192	0.1983	0.0063
23	20	HDR BIAS	0.1937	0.196	0.0023
24	20	HDR BIAS	0.1995	0.1997	0.0002
25	20	HDR BIAS	0.1923	0.1986	0.0063
26	20	HDR UNBIAS	0.1938	0.2001	0.0063
27	20	HDR UNBIAS	0.1963	0.1986	0.0023
28	20	HDR UNBIAS	0.1887	0.1942	0.0055
29	20	HDR UNBIAS	0.1996	0.189	-0.0106
30	20	HDR UNBIAS	0.1981	0.1873	-0.0108
31	30	HDR BIAS	0.1991	0.191	-0.0081
32	30	HDR BIAS	0.1932	0.1964	0.0032
33	30	HDR BIAS	0.1959	0.1957	-0.0002
34	30	HDR BIAS	0.1901	0.1965	0.0064
35	30	HDR BIAS	0.1904	0.1869	-0.0035
36	30	HDR UNBIAS	0.1965	0.1893	-0.0072
37	30	HDR UNBIAS	0.188	0.1877	-0.0003
38	30	HDR UNBIAS	0.193	0.1999	0.0069
39	30	HDR UNBIAS	0.188	0.1939	0.0059
40	30	HDR UNBIAS	0.1864	0.1908	0.0044
41	50	HDR BIAS	0.1864	0.1907	0.0043
42	50	HDR BIAS	0.1878	0.1944	0.0066
43	50	HDR BIAS	0.1969	0.1908	-0.0061
44	50	HDR BIAS	0.1992	0.1965	-0.0027
45	50	HDR BIAS	0.1938	0.1913	-0.0025
46	50	HDR UNBIAS	0.1958	0.194	-0.0018
47	50	HDR UNBIAS	0.189	0.195	0.006
48	50	HDR UNBIAS	0.1973	0.188	-0.0093
49	50	HDR UNBIAS	0.1959	0.1985	0.0026
50	50	HDR UNBIAS	0.1888	0.2	0.0112
71	0	CORRELATION	0.193	0.1894	-0.0036
72	0	CORRELATION	0.1961	0.1866	-0.0095
73	0	CORRELATION	0.1973	0.1998	0.0025

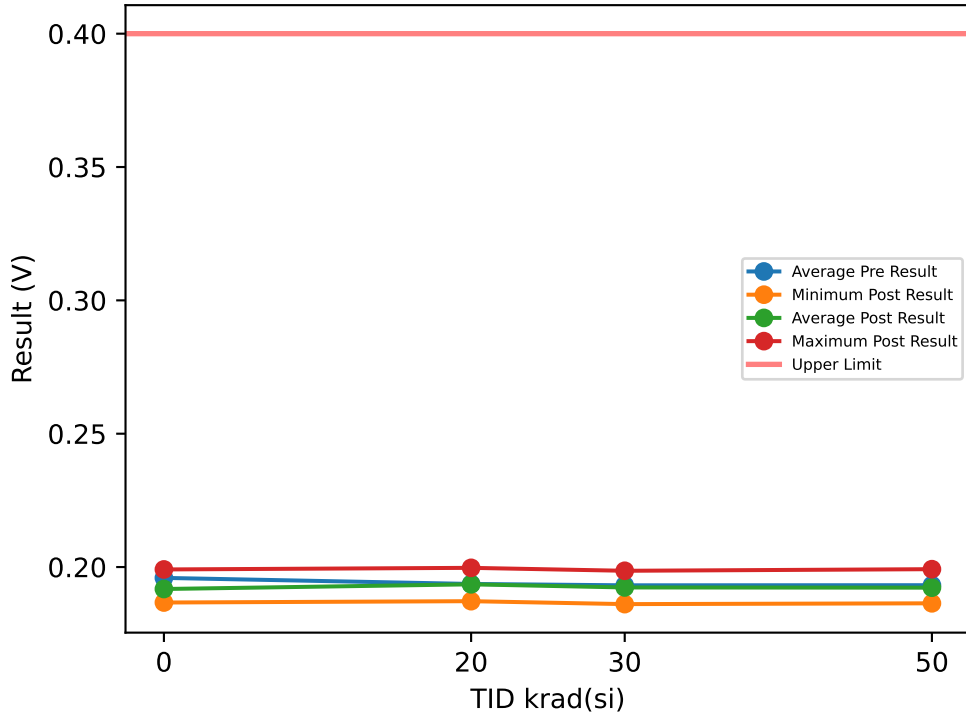
TID vs Post - Pre Exposure Delta



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	0.193	0.19547	0.1973	0.0022189	0.1866	0.19193	0.1998	0.0069551	-0.0095	-0.0035333	0.0025	0.0060003
20	0.1887	0.1947	0.1996	0.0035734	0.1873	0.19557	0.2001	0.0044697	-0.0108	0.00087	0.0063	0.0065165
30	0.1864	0.19206	0.1991	0.0041873	0.1869	0.19281	0.1999	0.0043075	-0.0081	0.00075	0.0069	0.0055496
50	0.1864	0.19309	0.1992	0.0046331	0.188	0.19392	0.2	0.0037715	-0.0093	0.00083	0.0112	0.0063582

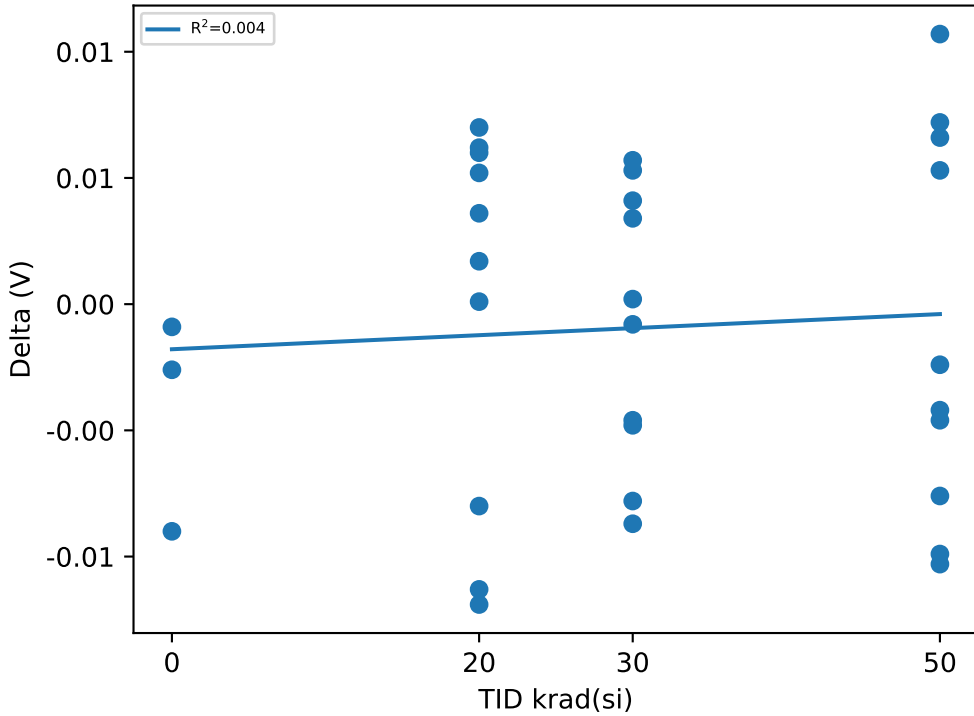
TID vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1932	0.1933	0.0001
22	20	HDR BIAS	0.1912	0.1982	0.007
23	20	HDR BIAS	0.1937	0.1997	0.006
24	20	HDR BIAS	0.1875	0.1911	0.0036
25	20	HDR BIAS	0.1919	0.1981	0.0062
26	20	HDR UNBIAS	0.1952	0.1872	-0.008
27	20	HDR UNBIAS	0.1967	0.1984	0.0017
28	20	HDR UNBIAS	0.1888	0.194	0.0052
29	20	HDR UNBIAS	0.1998	0.1879	-0.0119
30	20	HDR UNBIAS	0.1986	0.1873	-0.0113
31	30	HDR BIAS	0.1994	0.1907	-0.0087
32	30	HDR BIAS	0.1952	0.1986	0.0034
33	30	HDR BIAS	0.1991	0.1983	-0.0008
34	30	HDR BIAS	0.1905	0.1962	0.0057
35	30	HDR BIAS	0.1909	0.1861	-0.0048
36	30	HDR UNBIAS	0.1963	0.1885	-0.0078
37	30	HDR UNBIAS	0.1914	0.1916	0.0002
38	30	HDR UNBIAS	0.1944	0.1898	-0.0046
39	30	HDR UNBIAS	0.1878	0.1931	0.0053
40	30	HDR UNBIAS	0.1865	0.1906	0.0041
41	50	HDR BIAS	0.1874	0.1946	0.0072
42	50	HDR BIAS	0.187	0.1936	0.0066
43	50	HDR BIAS	0.1972	0.1896	-0.0076
44	50	HDR BIAS	0.1994	0.1952	-0.0042
45	50	HDR BIAS	0.1944	0.1898	-0.0046
46	50	HDR UNBIAS	0.1954	0.193	-0.0024
47	50	HDR UNBIAS	0.1886	0.1939	0.0053
48	50	HDR UNBIAS	0.1977	0.1874	-0.0103
49	50	HDR UNBIAS	0.1963	0.1864	-0.0099
50	50	HDR UNBIAS	0.1885	0.1992	0.0107
71	0	CORRELATION	0.1921	0.1895	-0.0026
72	0	CORRELATION	0.1957	0.1867	-0.009
73	0	CORRELATION	0.2	0.1991	-0.0009

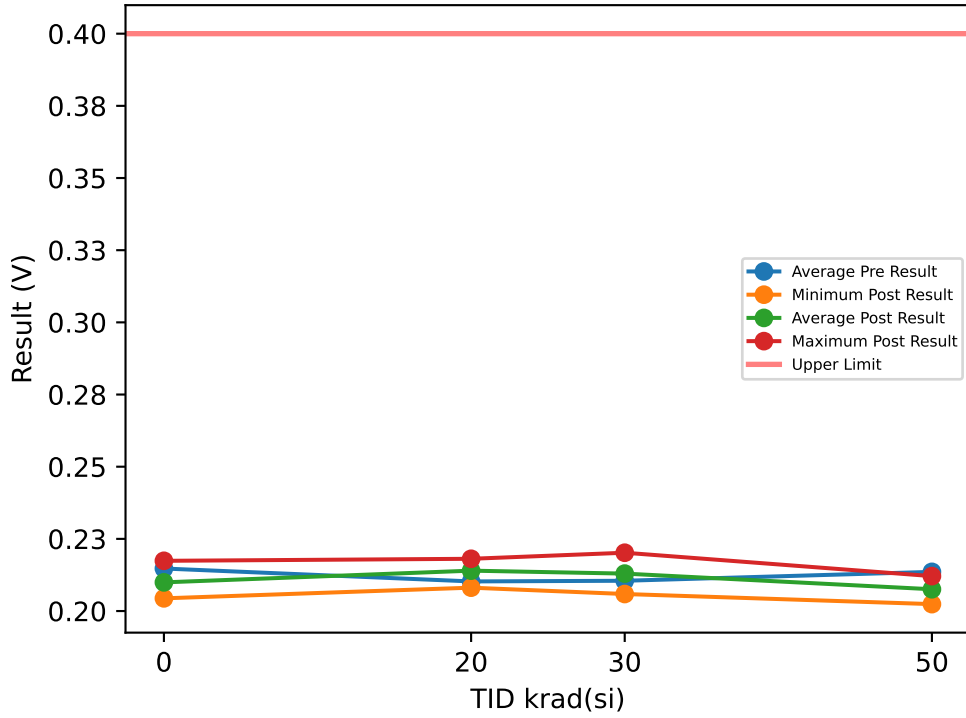
TID vs Post - Pre Exposure Delta



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	0.1921	0.19593	0.2	0.0039552	0.1867	0.19177	0.1991	0.0065033	-0.009	-0.0041667	-0.0009	0.0042712
20	0.1875	0.19366	0.1998	0.0040089	0.1872	0.19352	0.1997	0.004958	-0.0119	-0.00014	0.007	0.0074494
30	0.1865	0.19315	0.1994	0.004449	0.1861	0.19235	0.1986	0.0041711	-0.0087	-0.0008	0.0057	0.0054156
50	0.187	0.19319	0.1994	0.0047832	0.1864	0.19227	0.1992	0.0039215	-0.0103	-0.00092	0.0107	0.0077168

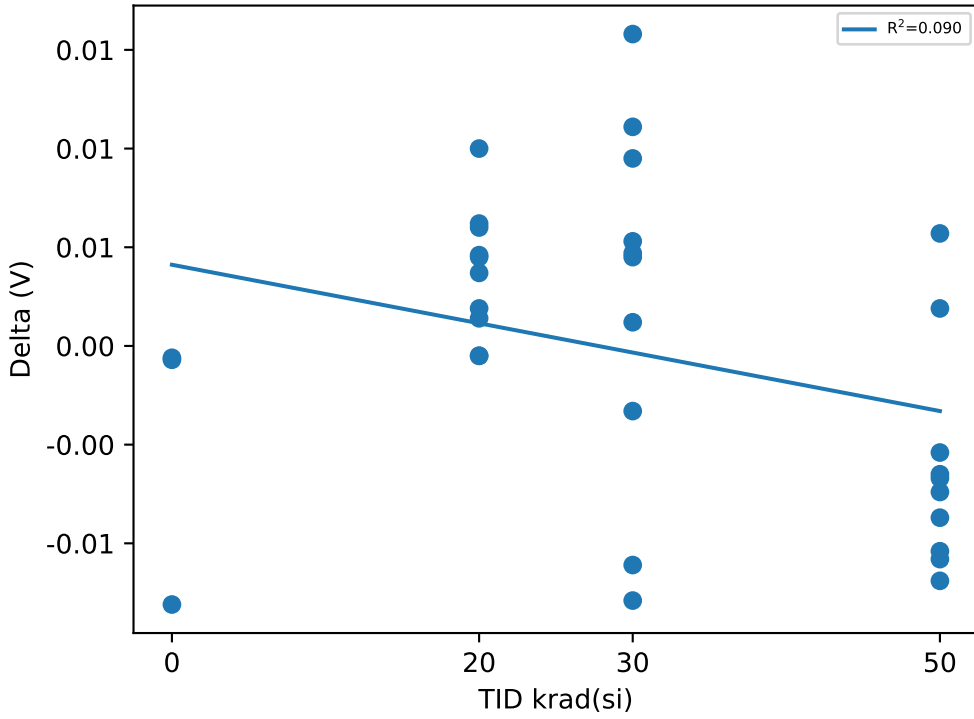
TID vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.2123	0.2118	-0.0005
22	20	HDR BIAS	0.2098	0.2158	0.006
23	20	HDR BIAS	0.2084	0.2121	0.0037
24	20	HDR BIAS	0.2065	0.211	0.0045
25	20	HDR BIAS	0.2085	0.2147	0.0062
26	20	HDR UNBIAS	0.2079	0.2179	0.01
27	20	HDR UNBIAS	0.2186	0.2181	-0.0005
28	20	HDR UNBIAS	0.2106	0.2152	0.0046
29	20	HDR UNBIAS	0.2133	0.2152	0.0019
30	20	HDR UNBIAS	0.2067	0.2081	0.0014
31	30	HDR BIAS	0.2151	0.2196	0.0045
32	30	HDR BIAS	0.2098	0.211	0.0012
33	30	HDR BIAS	0.2106	0.2073	-0.0033
34	30	HDR BIAS	0.2104	0.2157	0.0053
35	30	HDR BIAS	0.2057	0.2152	0.0095
36	30	HDR UNBIAS	0.2173	0.2062	-0.0111
37	30	HDR UNBIAS	0.2044	0.2202	0.0158
38	30	HDR UNBIAS	0.2066	0.2177	0.0111
39	30	HDR UNBIAS	0.2062	0.2109	0.0047
40	30	HDR UNBIAS	0.2188	0.2059	-0.0129
41	50	HDR BIAS	0.2166	0.2099	-0.0067
42	50	HDR BIAS	0.2052	0.2109	0.0057
43	50	HDR BIAS	0.2162	0.2054	-0.0108
44	50	HDR BIAS	0.2164	0.2077	-0.0087
45	50	HDR BIAS	0.2166	0.2101	-0.0065
46	50	HDR UNBIAS	0.2108	0.2054	-0.0054
47	50	HDR UNBIAS	0.2189	0.207	-0.0119
48	50	HDR UNBIAS	0.2027	0.2046	0.0019
49	50	HDR UNBIAS	0.2128	0.2024	-0.0104
50	50	HDR UNBIAS	0.2195	0.2121	-0.0074
71	0	CORRELATION	0.2087	0.208	-0.0007
72	0	CORRELATION	0.218	0.2174	-0.0006
73	0	CORRELATION	0.2175	0.2044	-0.0131

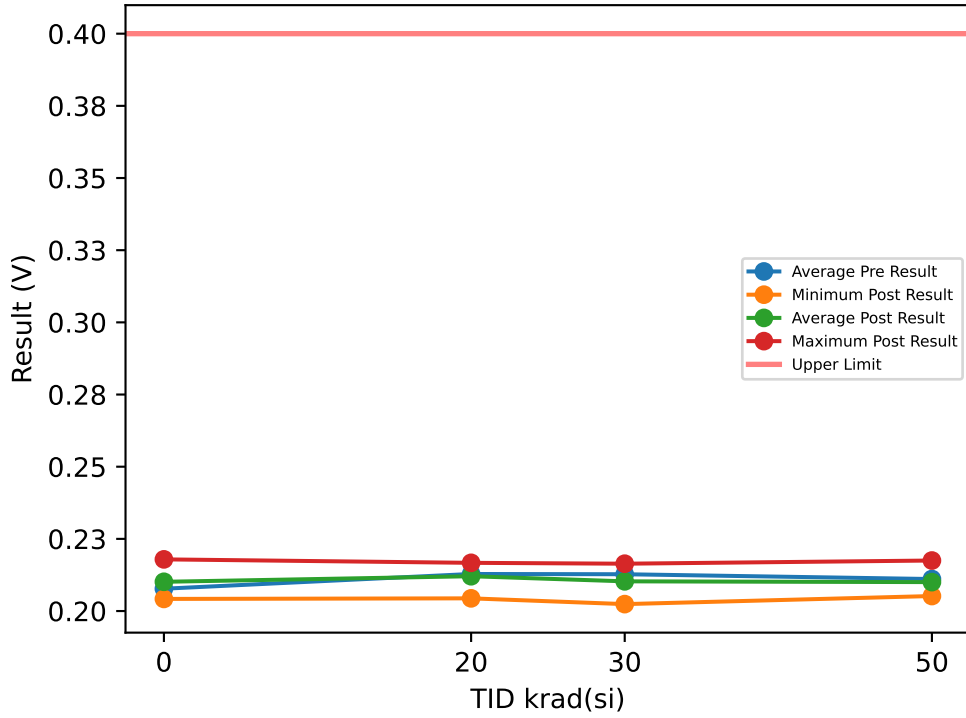
TID vs Post - Pre Exposure Delta



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	0.2087	0.21473	0.218	0.005231	0.2044	0.20993	0.2174	0.0067122	-0.0131	-0.0048	-0.0006	0.0071882
20	0.2065	0.21026	0.2186	0.0036852	0.2081	0.21399	0.2181	0.0031779	-0.0005	0.00373	0.01	0.0032742
30	0.2044	0.21049	0.2188	0.0050635	0.2059	0.21297	0.2202	0.0054484	-0.0129	0.00248	0.0158	0.0092735
50	0.2027	0.21357	0.2195	0.0057091	0.2024	0.20755	0.2121	0.0031402	-0.0119	-0.00602	0.0057	0.0056456

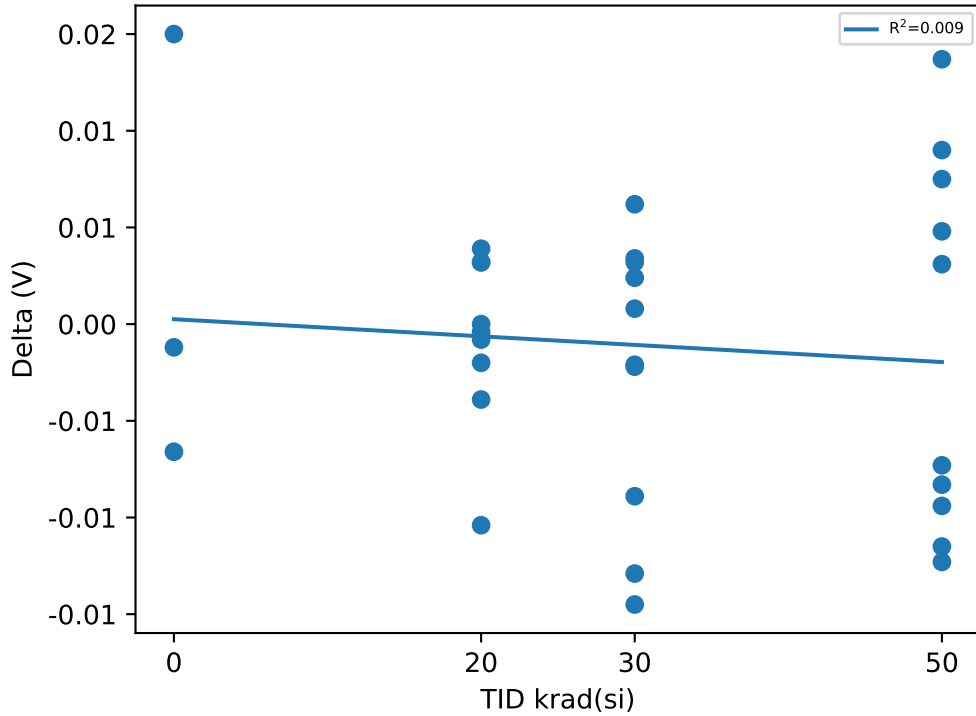
TID vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.2156	0.2117	-0.0039
22	20	HDR BIAS	0.2135	0.2167	0.0032
23	20	HDR BIAS	0.2156	0.2148	-0.0008
24	20	HDR BIAS	0.2157	0.2137	-0.002
25	20	HDR BIAS	0.2116	0.2148	0.0032
26	20	HDR UNBIAS	0.2148	0.2044	-0.0104
27	20	HDR UNBIAS	0.205	0.205	0
28	20	HDR UNBIAS	0.2114	0.2153	0.0039
29	20	HDR UNBIAS	0.2157	0.2153	-0.0004
30	20	HDR UNBIAS	0.2095	0.2089	-0.0006
31	30	HDR BIAS	0.2169	0.2024	-0.0145
32	30	HDR BIAS	0.2156	0.2164	0.0008
33	30	HDR BIAS	0.2165	0.2143	-0.0022
34	30	HDR BIAS	0.2129	0.2163	0.0034
35	30	HDR BIAS	0.2097	0.2159	0.0062
36	30	HDR UNBIAS	0.2186	0.2057	-0.0129
37	30	HDR UNBIAS	0.2106	0.2085	-0.0021
38	30	HDR UNBIAS	0.2147	0.2058	-0.0089
39	30	HDR UNBIAS	0.2084	0.2116	0.0032
40	30	HDR UNBIAS	0.2036	0.206	0.0024
41	50	HDR BIAS	0.2085	0.2133	0.0048
42	50	HDR BIAS	0.2082	0.2113	0.0031
43	50	HDR BIAS	0.2167	0.2052	-0.0115
44	50	HDR BIAS	0.2176	0.2082	-0.0094
45	50	HDR BIAS	0.2038	0.2175	0.0137
46	50	HDR UNBIAS	0.2129	0.2056	-0.0073
47	50	HDR UNBIAS	0.2191	0.2068	-0.0123
48	50	HDR UNBIAS	0.2057	0.2132	0.0075
49	50	HDR UNBIAS	0.2145	0.2062	-0.0083
50	50	HDR UNBIAS	0.2039	0.2129	0.009
71	0	CORRELATION	0.2095	0.2083	-0.0012
72	0	CORRELATION	0.2029	0.2179	0.015
73	0	CORRELATION	0.2108	0.2042	-0.0066

TID vs Post - Pre Exposure Delta

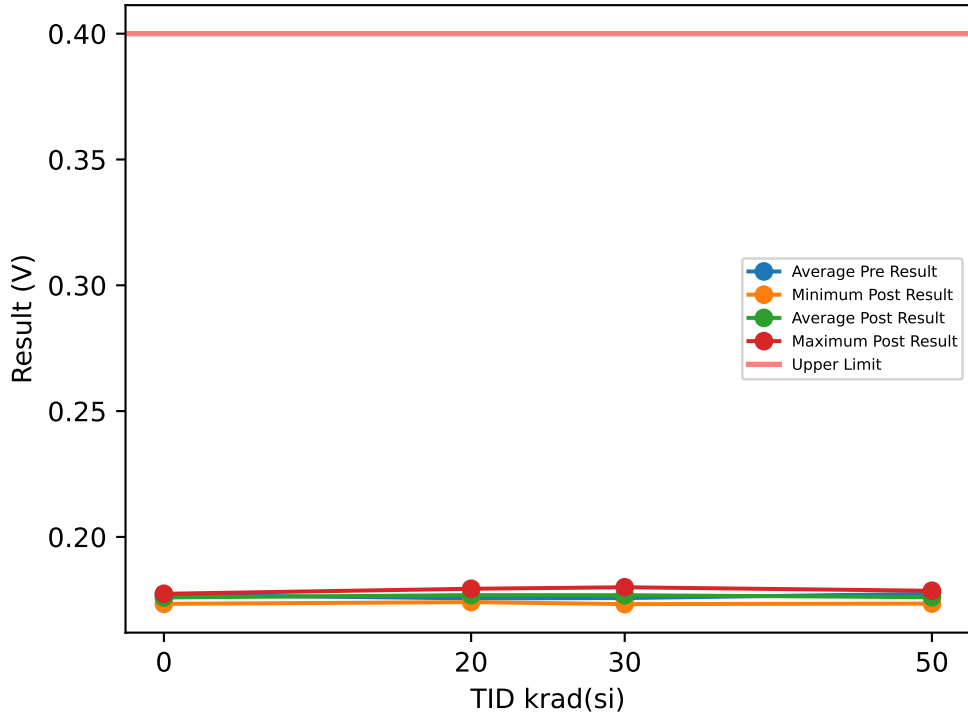


Test Statistics (V)

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	0.2029	0.20773	0.2108	0.004236	0.2042	0.21013	0.2179	0.0070316	-0.0066	0.0024	0.015	0.011241
20	0.205	0.21284	0.2157	0.0035293	0.2044	0.21206	0.2167	0.004458	-0.0104	-0.00078	0.0039	0.0041917
30	0.2036	0.21275	0.2186	0.0046431	0.2024	0.21029	0.2164	0.0052473	-0.0145	-0.00246	0.0062	0.0072361
50	0.2038	0.21109	0.2191	0.0057915	0.2052	0.21002	0.2175	0.0041872	-0.0123	-0.00107	0.0137	0.0096622



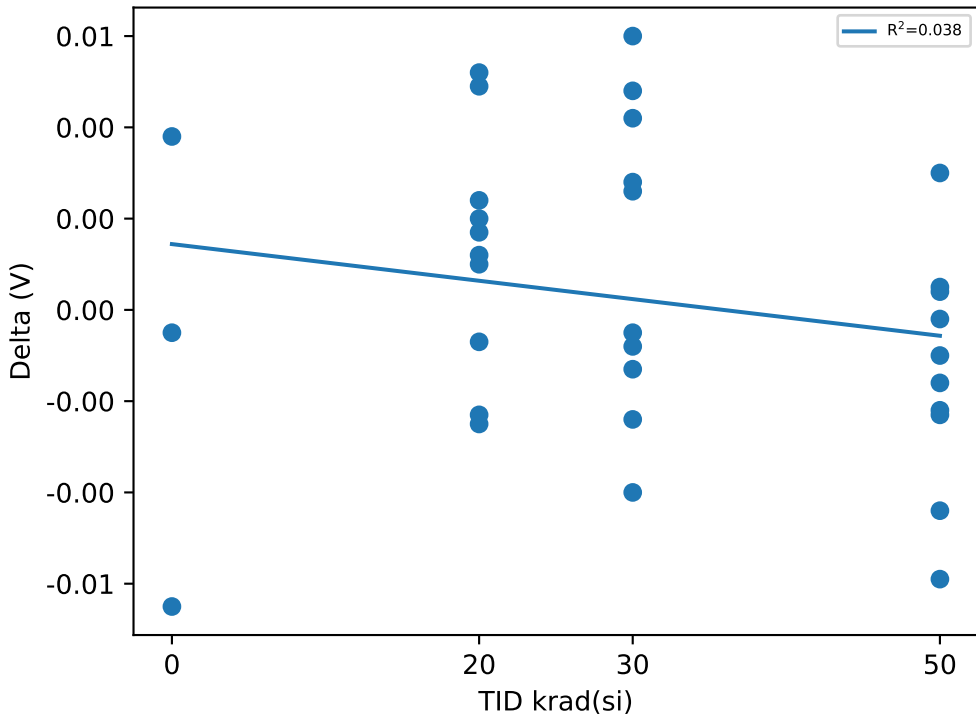
TID vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1784	0.1794	0.001
22	20	HDR BIAS	0.1742	0.1794	0.0052
23	20	HDR BIAS	0.1757	0.175	-0.0007
24	20	HDR BIAS	0.1737	0.1749	0.0012
25	20	HDR BIAS	0.1745	0.1794	0.0049
26	20	HDR UNBIAS	0.1742	0.1759	0.0017
27	20	HDR UNBIAS	0.1763	0.1787	0.0024
28	20	HDR UNBIAS	0.1767	0.1744	-0.0023
29	20	HDR UNBIAS	0.1755	0.1775	0.002
30	20	HDR UNBIAS	0.1766	0.1741	-0.0025
31	30	HDR BIAS	0.1764	0.174	-0.0024
32	30	HDR BIAS	0.174	0.18	0.006
33	30	HDR BIAS	0.1791	0.1751	-0.004
34	30	HDR BIAS	0.1778	0.1765	-0.0013
35	30	HDR BIAS	0.1735	0.1761	0.0026
36	30	HDR UNBIAS	0.1767	0.1762	-0.0005
37	30	HDR UNBIAS	0.1749	0.1791	0.0042
38	30	HDR UNBIAS	0.1742	0.179	0.0048
39	30	HDR UNBIAS	0.1741	0.1733	-0.0008
40	30	HDR UNBIAS	0.1763	0.1791	0.0028
41	50	HDR BIAS	0.1791	0.1747	-0.0044
42	50	HDR BIAS	0.1743	0.1747	0.0004
43	50	HDR BIAS	0.1784	0.1782	-0.0002
44	50	HDR BIAS	0.1749	0.1779	0.003
45	50	HDR BIAS	0.1794	0.1735	-0.0059
46	50	HDR UNBIAS	0.1795	0.1772	-0.0023
47	50	HDR UNBIAS	0.1775	0.1765	-0.001
48	50	HDR UNBIAS	0.1765	0.1749	-0.0016
49	50	HDR UNBIAS	0.1781	0.1786	0.0005
50	50	HDR UNBIAS	0.1764	0.1742	-0.0022
71	0	CORRELATION	0.1732	0.177	0.0038
72	0	CORRELATION	0.1799	0.1734	-0.0065
73	0	CORRELATION	0.1779	0.1774	-0.0005

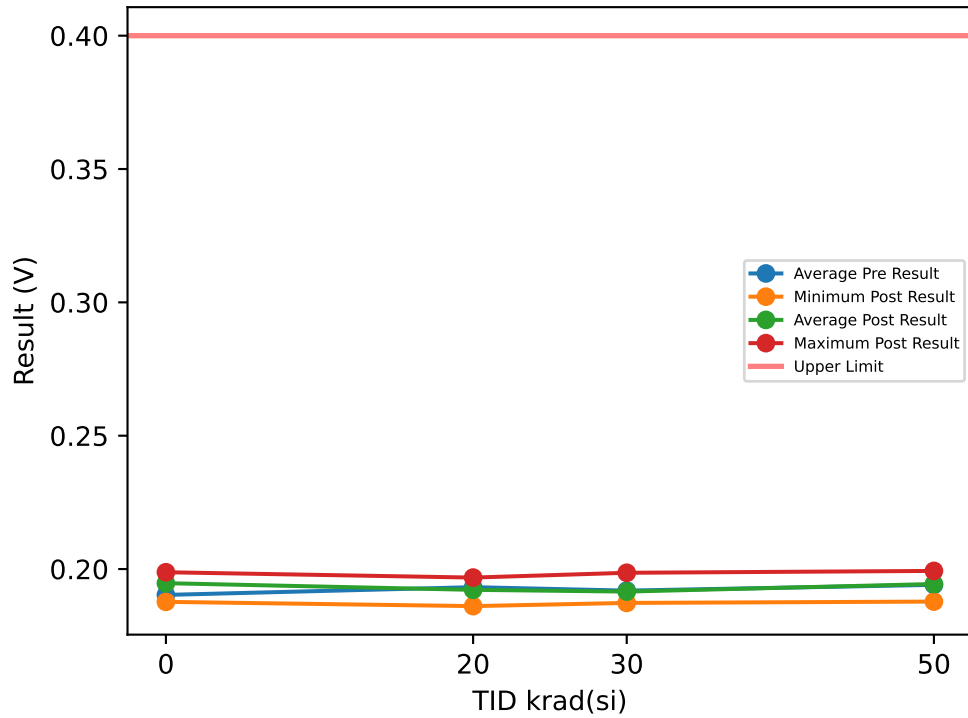
TID vs Post - Pre Exposure Delta



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	0.1732	0.177	0.1799	0.0034395	0.1734	0.17593	0.1774	0.0022203	-0.0065	-0.0010667	0.0038	0.0051733
20	0.1737	0.17558	0.1784	0.0014642	0.1741	0.17687	0.1794	0.0022371	-0.0025	0.00129	0.0052	0.0026147
30	0.1735	0.1757	0.1791	0.0018559	0.1733	0.17684	0.18	0.0023467	-0.004	0.00114	0.006	0.0033768
50	0.1743	0.17741	0.1795	0.00184	0.1735	0.17604	0.1786	0.0018548	-0.0059	-0.00137	0.003	0.0025504

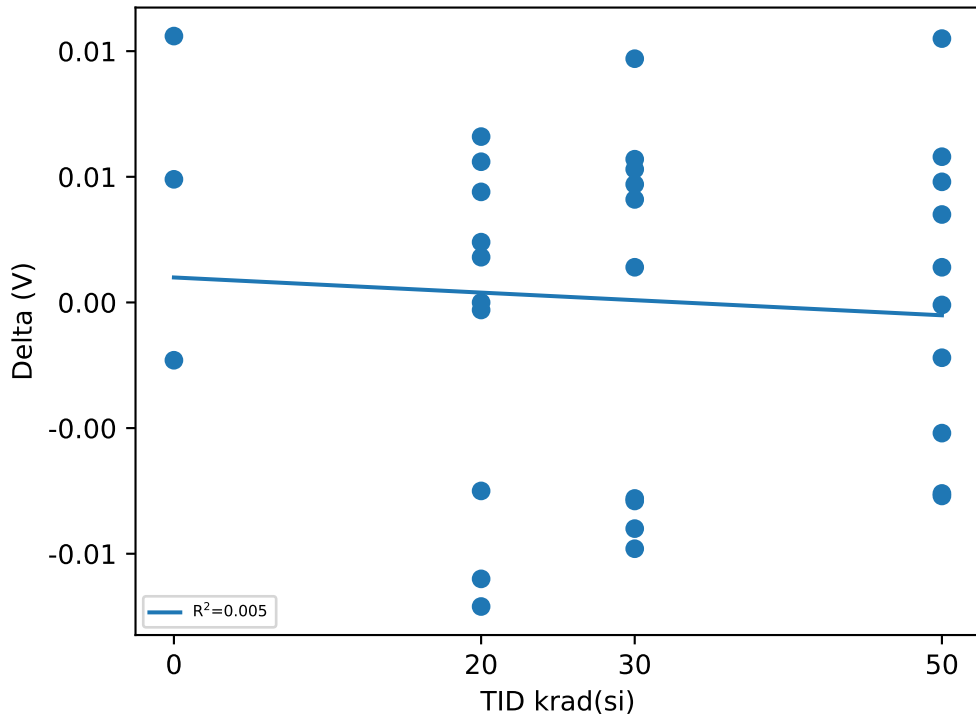
TID vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1919	0.1916	-0.0003
22	20	HDR BIAS	0.1897	0.1963	0.0066
23	20	HDR BIAS	0.1986	0.1911	-0.0075
24	20	HDR BIAS	0.1936	0.1936	0
25	20	HDR BIAS	0.19	0.1956	0.0056
26	20	HDR UNBIAS	0.1911	0.1929	0.0018
27	20	HDR UNBIAS	0.1944	0.1968	0.0024
28	20	HDR UNBIAS	0.1874	0.1918	0.0044
29	20	HDR UNBIAS	0.1983	0.1862	-0.0121
30	20	HDR UNBIAS	0.1971	0.1861	-0.011
31	30	HDR BIAS	0.1975	0.1885	-0.009
32	30	HDR BIAS	0.197	0.1891	-0.0079
33	30	HDR BIAS	0.1865	0.1879	0.0014
34	30	HDR BIAS	0.1889	0.1946	0.0057
35	30	HDR BIAS	0.1889	0.1986	0.0097
36	30	HDR UNBIAS	0.1951	0.1873	-0.0078
37	30	HDR UNBIAS	0.1904	0.1951	0.0047
38	30	HDR UNBIAS	0.1902	0.1943	0.0041
39	30	HDR UNBIAS	0.1861	0.1914	0.0053
40	30	HDR UNBIAS	0.1985	0.1887	-0.0098
41	50	HDR BIAS	0.197	0.1984	0.0014
42	50	HDR BIAS	0.1995	0.1918	-0.0077
43	50	HDR BIAS	0.1954	0.1878	-0.0076
44	50	HDR BIAS	0.1985	0.1933	-0.0052
45	50	HDR BIAS	0.1922	0.198	0.0058
46	50	HDR UNBIAS	0.1939	0.1917	-0.0022
47	50	HDR UNBIAS	0.1872	0.192	0.0048
48	50	HDR UNBIAS	0.1958	0.1993	0.0035
49	50	HDR UNBIAS	0.1943	0.1942	-0.0001
50	50	HDR UNBIAS	0.1869	0.1974	0.0105
71	0	CORRELATION	0.19	0.1877	-0.0023
72	0	CORRELATION	0.1939	0.1988	0.0049
73	0	CORRELATION	0.187	0.1976	0.0106

TID vs Post - Pre Exposure Delta

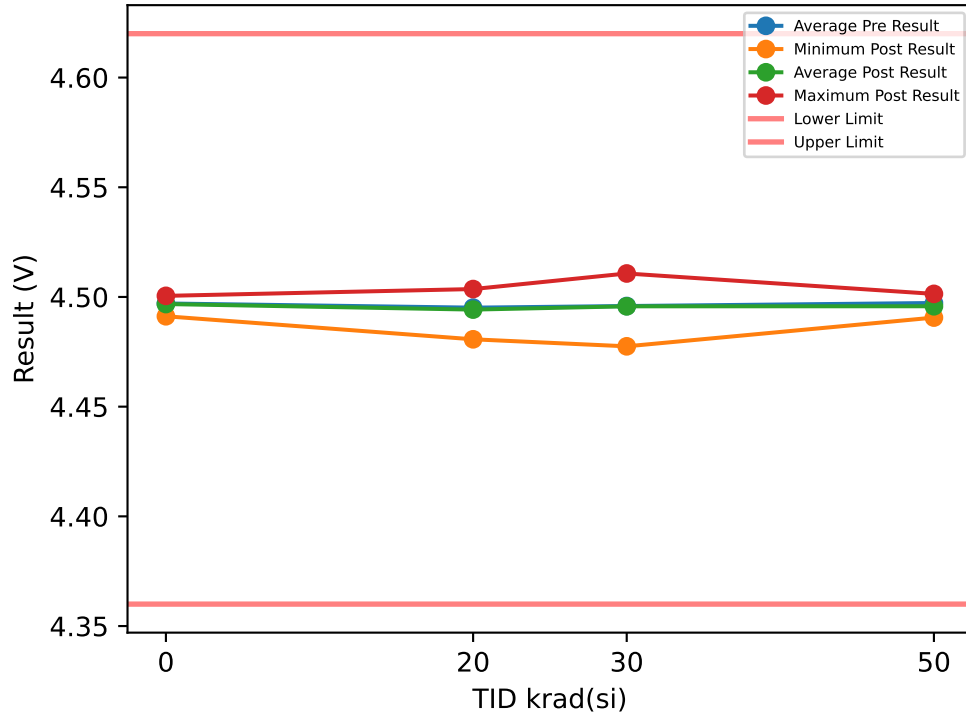


Test Statistics (V)

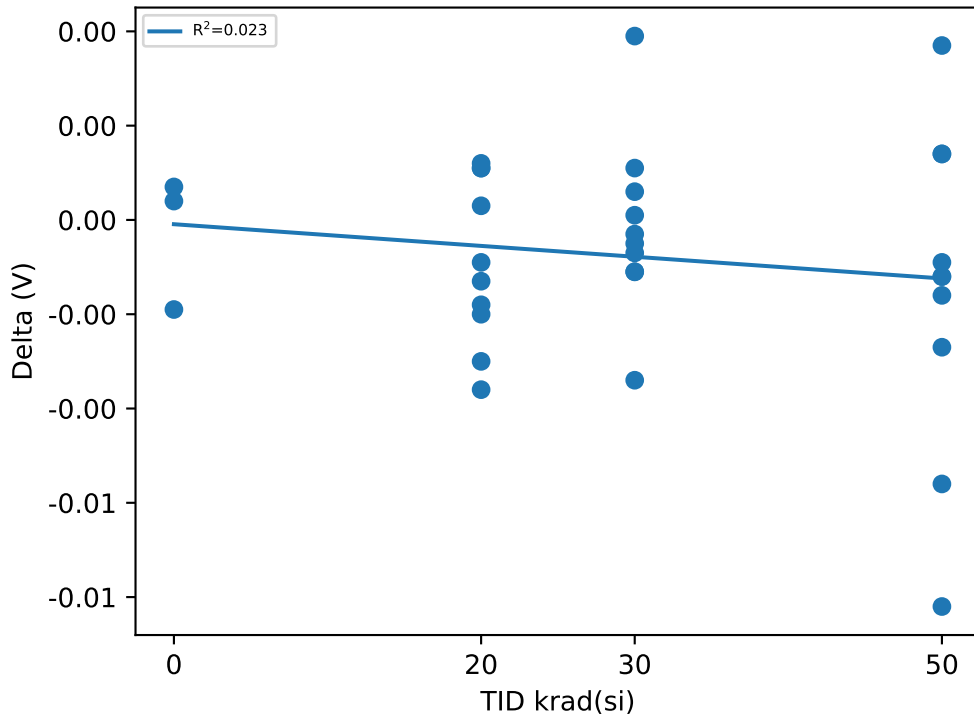
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.187	0.1903	0.1939	0.0034598	0.1877	0.1947	0.1988	0.0060918	-0.0023	0.0044	0.0106	0.0064645
20	0.1874	0.19321	0.1986	0.0038616	0.1861	0.1922	0.1968	0.0037553	-0.0121	-0.00101	0.0066	0.0068055
30	0.1861	0.19191	0.1985	0.0046799	0.1873	0.19155	0.1986	0.0038587	-0.0098	-0.00036	0.0097	0.0074126
50	0.1869	0.19407	0.1995	0.0042771	0.1878	0.19439	0.1993	0.0037504	-0.0077	0.00032	0.0105	0.0060466

# Device Test: 15.5 VLDO|V\_VLDO/VLDO/14/14/0/0/4.5/500kHz//@V\_LDO\_4P5

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Lower Limit = 4.36, Upper Limit = 4.62 (V))

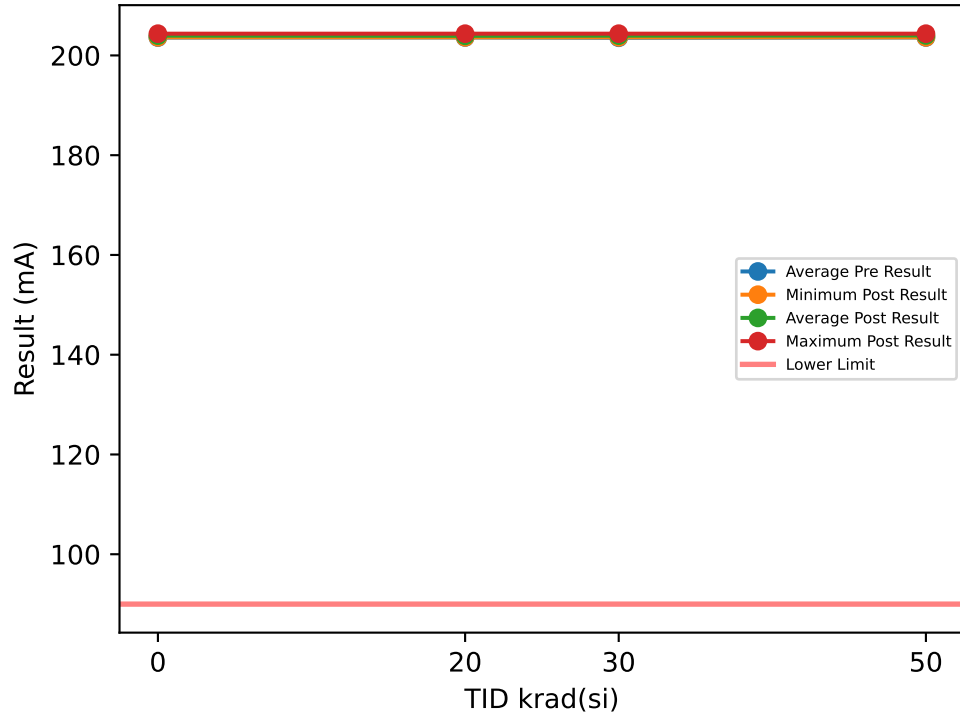
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.5023	4.4987	-0.0036
22	20	HDR BIAS	4.4892	4.4904	0.0012
23	20	HDR BIAS	4.5025	4.5036	0.0011
24	20	HDR BIAS	4.4931	4.4901	-0.003
25	20	HDR BIAS	4.5013	4.5024	0.0011
26	20	HDR UNBIAS	4.5016	4.4996	-0.002
27	20	HDR UNBIAS	4.4907	4.4889	-0.0018
28	20	HDR UNBIAS	4.4804	4.4807	0.0003
29	20	HDR UNBIAS	4.5028	4.5015	-0.0013
30	20	HDR UNBIAS	4.4874	4.4865	-0.0009
31	30	HDR BIAS	4.5025	4.5018	-0.0007
32	30	HDR BIAS	4.5031	4.5028	-0.0003
33	30	HDR BIAS	4.4809	4.4775	-0.0034
34	30	HDR BIAS	4.4947	4.4948	0.0001
35	30	HDR BIAS	4.4848	4.4887	0.0039
36	30	HDR UNBIAS	4.4908	4.4914	0.0006
37	30	HDR UNBIAS	4.5118	4.5107	-0.0011
38	30	HDR UNBIAS	4.4968	4.4957	-0.0011
39	30	HDR UNBIAS	4.4975	4.4986	0.0011
40	30	HDR UNBIAS	4.4958	4.4953	-0.0005
41	50	HDR BIAS	4.4963	4.4907	-0.0056
42	50	HDR BIAS	4.4956	4.4947	-0.0009
43	50	HDR BIAS	4.4977	4.4965	-0.0012
44	50	HDR BIAS	4.4946	4.496	0.0014
45	50	HDR BIAS	4.4922	4.4906	-0.0016
46	50	HDR UNBIAS	4.4976	4.5013	0.0037
47	50	HDR UNBIAS	4.4985	4.4973	-0.0012
48	50	HDR UNBIAS	4.4956	4.4929	-0.0027
49	50	HDR UNBIAS	4.5044	4.4962	-0.0082
50	50	HDR UNBIAS	4.5	4.5014	0.0014
71	0	CORRELATION	4.4931	4.4912	-0.0019
72	0	CORRELATION	4.5001	4.5005	0.0004
73	0	CORRELATION	4.4979	4.4986	0.0007

## 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	4.4931	4.497	4.5001	0.0035796	4.4912	4.4968	4.5005	0.0049136	-0.0019	-0.00026667	0.0007	0.0014224
20	4.4804	4.4951	4.5028	0.0080286	4.4807	4.4942	4.5036	0.0078822	-0.0036	-0.00089	0.0012	0.0017553
30	4.4809	4.4959	4.5118	0.0089891	4.4775	4.4957	4.5107	0.0089487	-0.0034	-0.00014	0.0039	0.001868
50	4.4922	4.4972	4.5044	0.0033241	4.4906	4.4958	4.5014	0.0037595	-0.0082	-0.00149	0.0037	0.0034569

# Device Test: 15.6 VLDO|ILIM\_VLDO/VLDO/14/14/0/0/4.5/500kHz//@V\_LDO\_ILIM\_4P5\_7

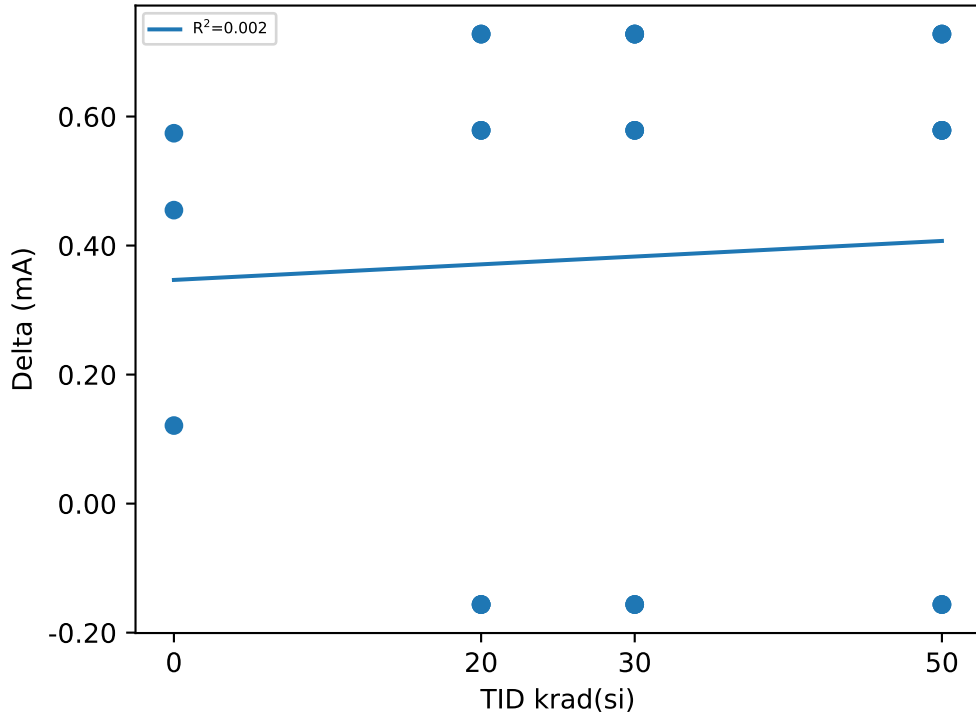
### TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	203.79	203.63	-0.1564
22	20	HDR BIAS	203.18	203.9	0.7278
23	20	HDR BIAS	203.78	204.36	0.5786
24	20	HDR BIAS	203.79	203.63	-0.1564
25	20	HDR BIAS	203.18	203.9	0.7278
26	20	HDR UNBIAS	203.78	204.36	0.5786
27	20	HDR UNBIAS	203.79	203.63	-0.1564
28	20	HDR UNBIAS	203.18	203.9	0.7278
29	20	HDR UNBIAS	203.78	204.36	0.5786
30	20	HDR UNBIAS	203.79	203.63	-0.1564
31	30	HDR BIAS	203.18	203.9	0.7278
32	30	HDR BIAS	203.78	204.36	0.5786
33	30	HDR BIAS	203.79	203.63	-0.1564
34	30	HDR BIAS	203.18	203.9	0.7278
35	30	HDR BIAS	203.78	204.36	0.5786
36	30	HDR UNBIAS	203.79	203.63	-0.1564
37	30	HDR UNBIAS	203.18	203.9	0.7278
38	30	HDR UNBIAS	203.78	204.36	0.5786
39	30	HDR UNBIAS	203.79	203.63	-0.1564
40	30	HDR UNBIAS	203.18	203.9	0.7278
41	50	HDR BIAS	203.78	204.36	0.5786
42	50	HDR BIAS	203.79	203.63	-0.1564
43	50	HDR BIAS	203.18	203.9	0.7278
44	50	HDR BIAS	203.78	204.36	0.5786
45	50	HDR BIAS	203.79	203.63	-0.1564
46	50	HDR UNBIAS	203.18	203.9	0.7278
47	50	HDR UNBIAS	203.78	204.36	0.5786
48	50	HDR UNBIAS	203.79	203.63	-0.1564
49	50	HDR UNBIAS	203.18	203.9	0.7278
50	50	HDR UNBIAS	203.78	204.36	0.5786
71	0	CORRELATION	203.78	203.9	0.121
72	0	CORRELATION	203.79	204.36	0.5741
73	0	CORRELATION	203.18	203.63	0.4549

### TID vs Post - Pre Exposure Delta

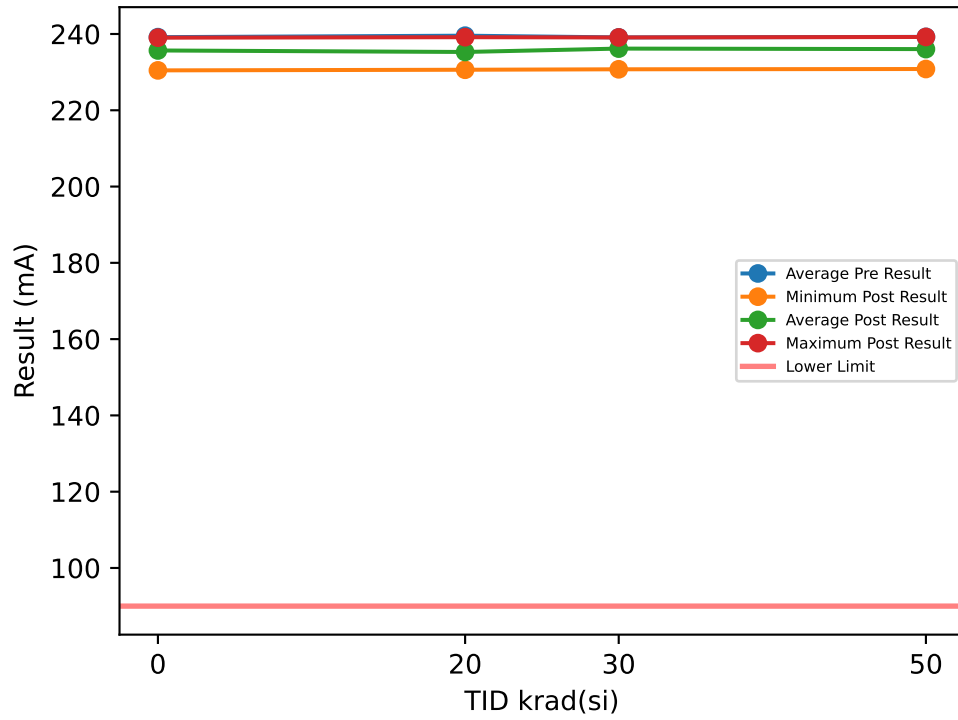


### Test Statistics (mA)

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	203.18	203.58	203.79	0.35164	203.63	203.96	204.36	0.36912	0.121	0.38333	0.5741	0.23487
20	203.18	203.6	203.79	0.29436	203.63	203.93	204.36	0.31941	-0.1564	0.32936	0.7278	0.42249
30	203.18	203.54	203.79	0.31452	203.63	203.96	204.36	0.30201	-0.1564	0.41778	0.7278	0.40154
50	203.18	203.6	203.79	0.29405	203.63	204	204.36	0.32637	-0.1564	0.40286	0.7278	0.39138

# Device Test: 15.7 VLDO|ILIM\_VLDO\_SWEEP/VLDO/14/14/0/0/4.5/500kHz//@V\_LDO\_ILIM\_4P5\_7

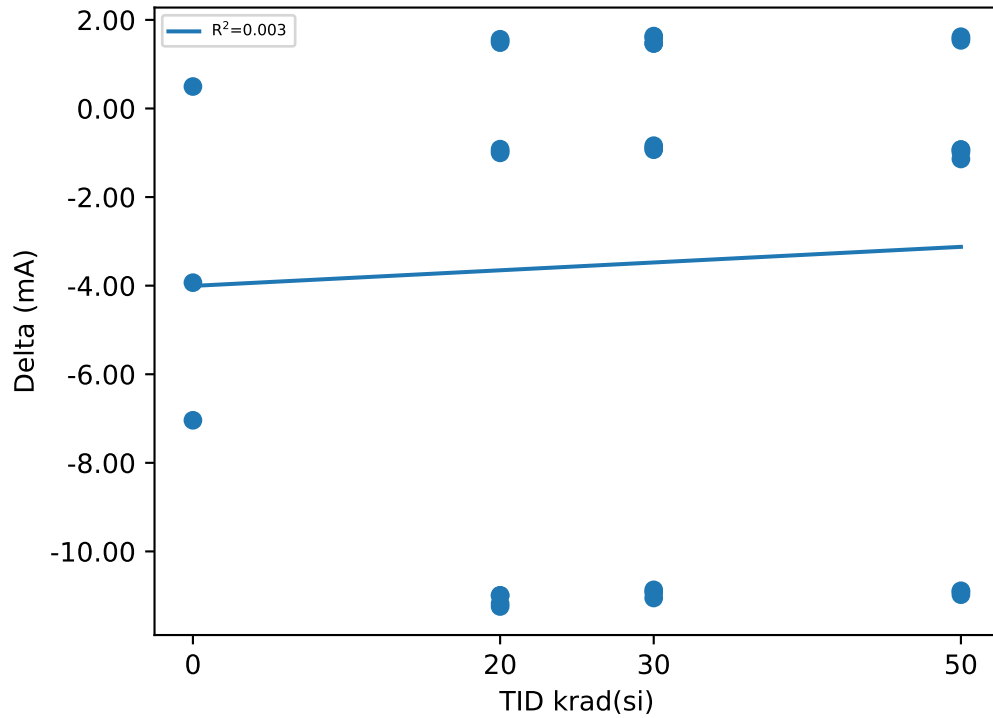
### TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	241.87	230.62	-11.244
22	20	HDR BIAS	237.55	239.08	1.5288
23	20	HDR BIAS	238.54	237.57	-0.968
24	20	HDR BIAS	241.87	230.69	-11.176
25	20	HDR BIAS	237.59	239.16	1.5631
26	20	HDR UNBIAS	238.54	237.54	-1.0018
27	20	HDR UNBIAS	241.84	230.85	-10.992
28	20	HDR UNBIAS	237.52	239.01	1.4868
29	20	HDR UNBIAS	238.52	237.6	-0.918
30	20	HDR UNBIAS	241.73	230.73	-10.996
31	30	HDR BIAS	237.46	239.09	1.6347
32	30	HDR BIAS	238.54	237.65	-0.8924
33	30	HDR BIAS	241.8	230.74	-11.052
34	30	HDR BIAS	237.5	239.09	1.5969
35	30	HDR BIAS	238.42	237.58	-0.8397
36	30	HDR UNBIAS	241.81	230.89	-10.927
37	30	HDR UNBIAS	237.59	239.06	1.4733
38	30	HDR UNBIAS	238.52	237.59	-0.9308
39	30	HDR UNBIAS	241.85	230.98	-10.868
40	30	HDR UNBIAS	237.57	239.03	1.466
41	50	HDR BIAS	238.49	237.56	-0.9289
42	50	HDR BIAS	241.85	230.94	-10.907
43	50	HDR BIAS	237.57	239.15	1.5798
44	50	HDR BIAS	238.59	237.6	-0.9881
45	50	HDR BIAS	241.77	230.88	-10.889
46	50	HDR UNBIAS	237.56	239.1	1.5381
47	50	HDR UNBIAS	238.6	237.46	-1.1399
48	50	HDR UNBIAS	241.79	230.82	-10.977
49	50	HDR UNBIAS	237.6	239.22	1.6203
50	50	HDR UNBIAS	238.58	237.65	-0.9279
71	0	CORRELATION	238.54	239.03	0.4961
72	0	CORRELATION	241.48	237.55	-3.9324
73	0	CORRELATION	237.5	230.46	-7.0395

### TID vs Post - Pre Exposure Delta

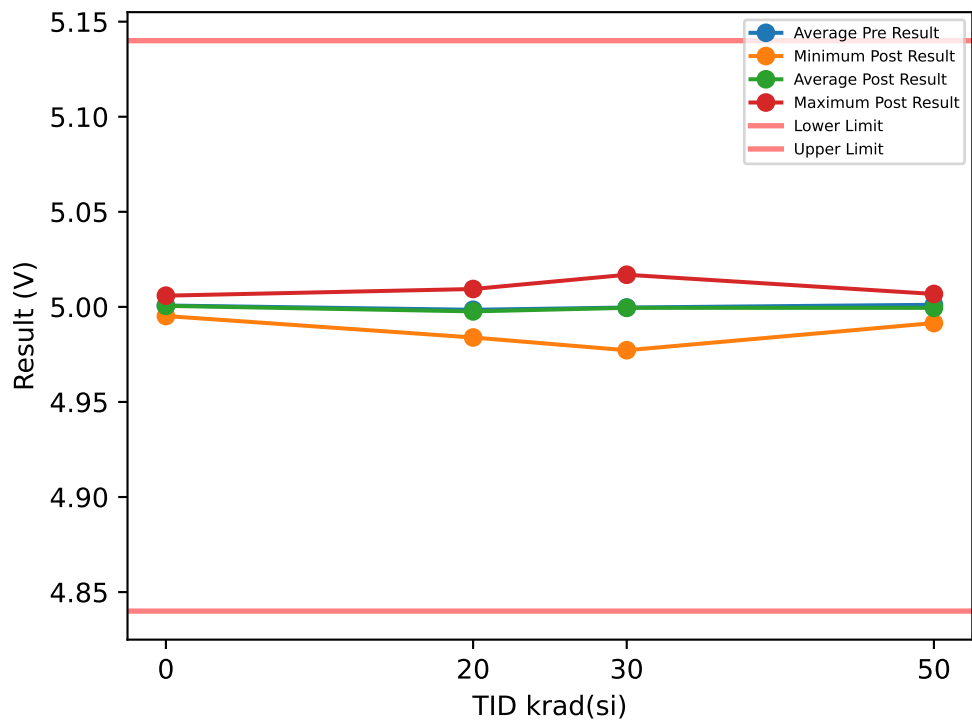


### Test Statistics (mA)

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	237.5	239.17	241.48	2.0634	230.46	235.68	239.03	4.5817	-7.0395	-3.4919	0.4961	3.7871
20	237.52	239.56	241.87	1.9936	230.62	235.29	239.16	3.9745	-11.244	-4.2717	1.5631	5.9662
30	237.46	239.1	241.85	1.9209	230.74	236.17	239.09	3.7134	-11.052	-2.9339	1.6347	5.6321
50	237.56	239.24	241.85	1.8219	230.82	236.04	239.22	3.6264	-10.977	-3.2019	1.6203	5.4465

# Device Test: 15.8 VLDO|V\_VLDO/VLDO/5.5/5.5/0/0/5/500kHz//@V\_LDO\_5

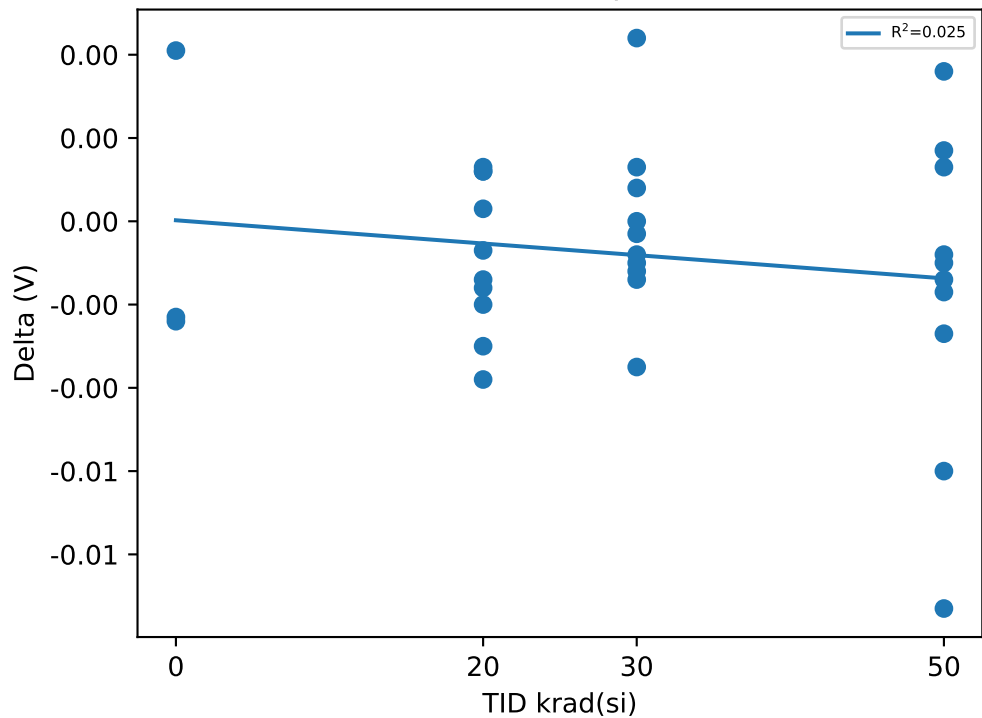
## TID vs Result Stats



## Test Results (Lower Limit = 4.84, Upper Limit = 5.14 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5.0044	5.0006	-0.0038
22	20	HDR BIAS	4.9932	4.9945	0.0013
23	20	HDR BIAS	5.0082	5.0094	0.0012
24	20	HDR BIAS	4.9942	4.9912	-0.003
25	20	HDR BIAS	5.0067	5.0079	0.0012
26	20	HDR UNBIAS	5.0071	5.0051	-0.002
27	20	HDR UNBIAS	4.9914	4.9898	-0.0016
28	20	HDR UNBIAS	4.9836	4.9839	0.0003
29	20	HDR UNBIAS	5.0083	5.0069	-0.0014
30	20	HDR UNBIAS	4.9877	4.987	-0.0007
31	30	HDR BIAS	5.0079	5.0069	-0.001
32	30	HDR BIAS	5.0089	5.0086	-0.0003
33	30	HDR BIAS	4.9807	4.9772	-0.0035
34	30	HDR BIAS	4.9994	4.9994	0
35	30	HDR BIAS	4.9885	4.9929	0.0044
36	30	HDR UNBIAS	4.9915	4.9923	0.0008
37	30	HDR UNBIAS	5.0183	5.0169	-0.0014
38	30	HDR UNBIAS	5.0018	5.0006	-0.0012
39	30	HDR UNBIAS	4.9991	5.0004	0.0013
40	30	HDR UNBIAS	5.0006	4.9998	-0.0008
41	50	HDR BIAS	5.0012	4.9952	-0.006
42	50	HDR BIAS	4.9969	4.9961	-0.0008
43	50	HDR BIAS	5.0025	5.0011	-0.0014
44	50	HDR BIAS	4.9992	5.0005	0.0013
45	50	HDR BIAS	4.9932	4.9915	-0.0017
46	50	HDR UNBIAS	5.0026	5.0062	0.0036
47	50	HDR UNBIAS	5.0034	5.0024	-0.001
48	50	HDR UNBIAS	4.9969	4.9942	-0.0027
49	50	HDR UNBIAS	5.0101	5.0008	-0.0093
50	50	HDR UNBIAS	5.0051	5.0068	0.0017
71	0	CORRELATION	4.9976	4.9952	-0.0024
72	0	CORRELATION	5.0018	5.0059	0.0041
73	0	CORRELATION	5.0028	5.0005	-0.0023

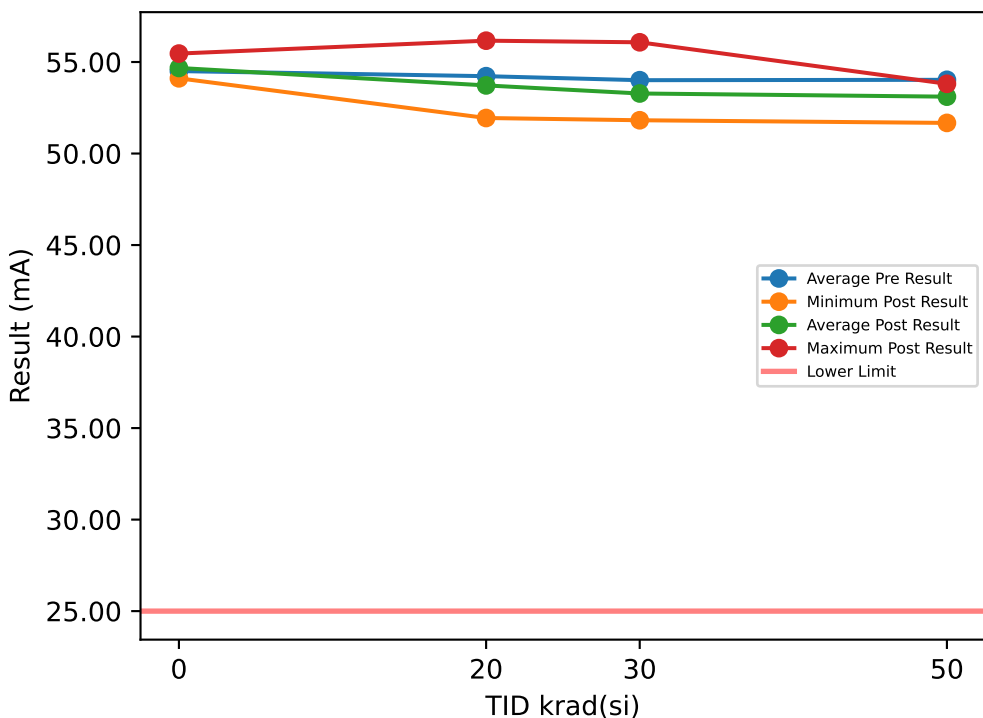
## TID vs Post - Pre Exposure Delta



## 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	4.9976	5.0007	5.0028	0.0027592	4.9952	5.0005	5.0059	0.0053501	-0.0024	-0.0002	0.0041	0.0037242
20	4.9836	4.9985	5.0083	0.0094385	4.9839	4.9976	5.0094	0.0094782	-0.0038	-0.00085	0.0013	0.0018222
30	4.9807	4.9997	5.0183	0.010838	4.9772	4.9995	5.0169	0.010725	-0.0035	-0.00017	0.0044	0.0020758
50	4.9932	5.0011	5.0101	0.0048052	4.9915	4.9995	5.0068	0.0050988	-0.0093	-0.00163	0.0036	0.00376

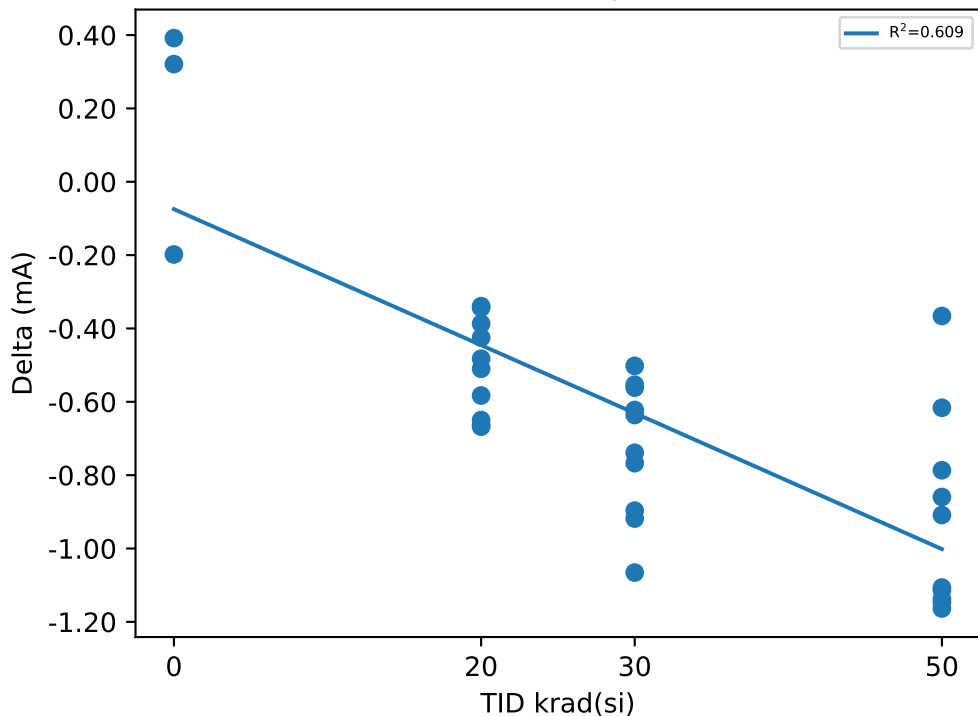
TID vs Result Stats



Test Results (Lower Limit = 25.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	53.431	53.087	-0.3434
22	20	HDR BIAS	54.822	54.154	-0.6678
23	20	HDR BIAS	52.59	51.941	-0.6497
24	20	HDR BIAS	54.615	54.19	-0.425
25	20	HDR BIAS	53.892	53.229	-0.6631
26	20	HDR UNBIAS	53.714	53.375	-0.3392
27	20	HDR UNBIAS	54.146	53.663	-0.4825
28	20	HDR UNBIAS	56.675	56.166	-0.5099
29	20	HDR UNBIAS	52.8	52.413	-0.3869
30	20	HDR UNBIAS	55.577	54.994	-0.5828
31	30	HDR BIAS	52.497	51.944	-0.5533
32	30	HDR BIAS	52.971	52.203	-0.7673
33	30	HDR BIAS	56.7	56.077	-0.6222
34	30	HDR BIAS	55.499	54.76	-0.739
35	30	HDR BIAS	54.62	53.554	-1.0656
36	30	HDR UNBIAS	54.077	53.18	-0.8967
37	30	HDR UNBIAS	52.38	51.818	-0.5614
38	30	HDR UNBIAS	53.299	52.663	-0.6361
39	30	HDR UNBIAS	54.099	53.181	-0.9183
40	30	HDR UNBIAS	53.927	53.425	-0.502
41	50	HDR BIAS	54.336	53.72	-0.6162
42	50	HDR BIAS	53.665	52.559	-1.1064
43	50	HDR BIAS	54.718	53.809	-0.9087
44	50	HDR BIAS	54.245	53.098	-1.1471
45	50	HDR BIAS	54.571	53.433	-1.1378
46	50	HDR UNBIAS	52.787	51.673	-1.1137
47	50	HDR UNBIAS	54.036	53.25	-0.7866
48	50	HDR UNBIAS	54.192	53.332	-0.8595
49	50	HDR UNBIAS	53.506	53.14	-0.366
50	50	HDR UNBIAS	54.219	53.055	-1.1636
71	0	CORRELATION	55.07	55.462	0.3918
72	0	CORRELATION	54.653	54.455	-0.1982
73	0	CORRELATION	53.789	54.11	0.3208

TID vs Post - Pre Exposure Delta



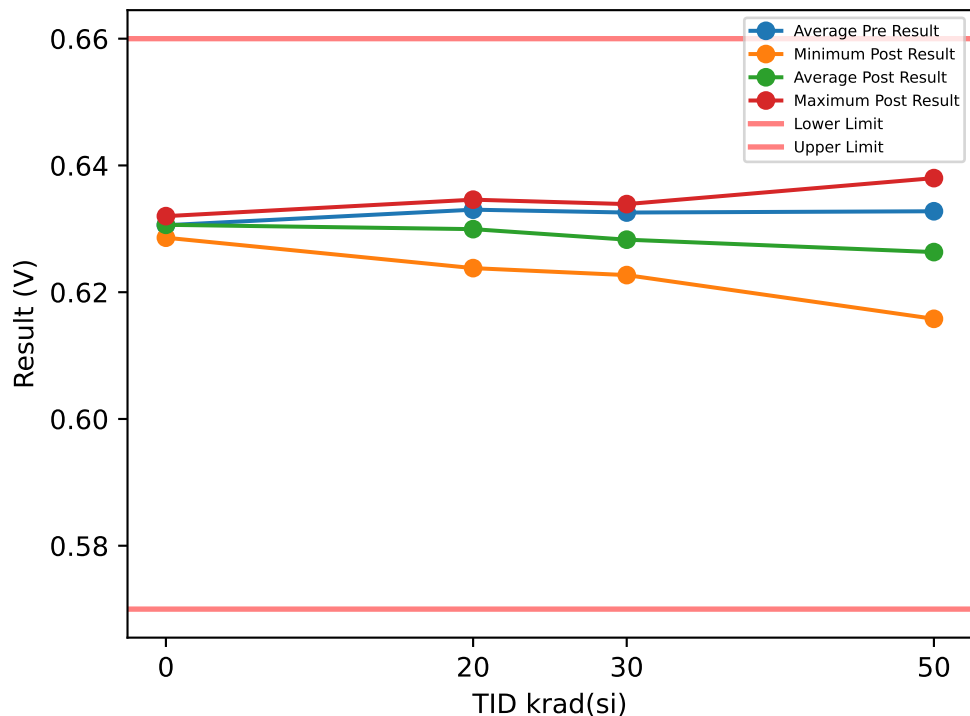
Test Statistics (mA)

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	53.789	54.504	55.07	0.65336	54.11	54.675	55.462	0.70251	-0.1982	0.17147	0.3918	0.3221
20	52.59	54.226	56.675	1.2495	51.941	53.721	56.166	1.2315	-0.6678	-0.50503	-0.3392	0.13037
30	52.38	54.007	56.7	1.3488	51.818	53.281	56.077	1.3163	-1.0656	-0.72619	-0.502	0.18537
50	52.787	54.028	54.718	0.56966	51.673	53.107	53.809	0.6152	-1.1636	-0.92056	-0.366	0.26903



Device Test: 16.1 LEVEL|EN\_RISE/EN/4.5/4.5/0/0/4.5/500kHz//@V\_EN\_RISE

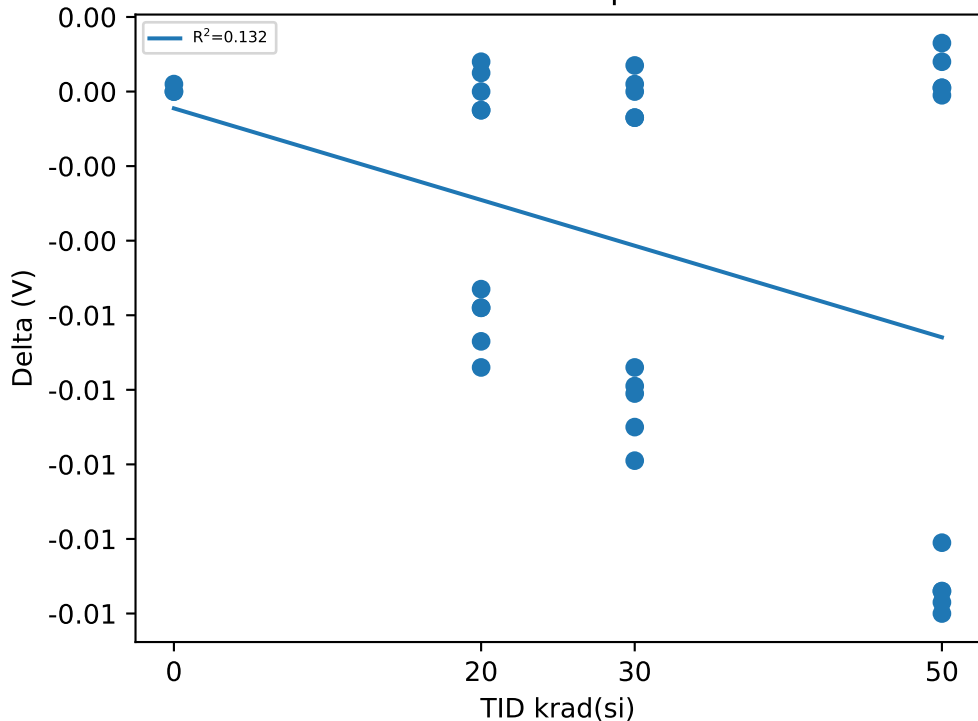
TID vs Result Stats



Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6328	0.6261	-0.0067
22	20	HDR BIAS	0.6332	0.6274	-0.0058
23	20	HDR BIAS	0.6353	0.6295	-0.0058
24	20	HDR BIAS	0.6312	0.6238	-0.0074
25	20	HDR BIAS	0.6318	0.6265	-0.0053
26	20	HDR UNBIAS	0.6333	0.6333	0
27	20	HDR UNBIAS	0.6312	0.6307	-0.0005
28	20	HDR UNBIAS	0.6326	0.6334	0.0008
29	20	HDR UNBIAS	0.6347	0.6342	-0.0005
30	20	HDR UNBIAS	0.6341	0.6346	0.0005
31	30	HDR BIAS	0.6332	0.6251	-0.0081
32	30	HDR BIAS	0.6355	0.6265	-0.009
33	30	HDR BIAS	0.6301	0.6227	-0.0074
34	30	HDR BIAS	0.6332	0.6233	-0.0099
35	30	HDR BIAS	0.6313	0.6234	-0.0079
36	30	HDR UNBIAS	0.6346	0.6339	-0.0007
37	30	HDR UNBIAS	0.6333	0.6326	-0.0007
38	30	HDR UNBIAS	0.6313	0.6313	0
39	30	HDR UNBIAS	0.632	0.6327	0.0007
40	30	HDR UNBIAS	0.6312	0.6314	0.0002
41	50	HDR BIAS	0.6298	0.6158	-0.014
42	50	HDR BIAS	0.63	0.6163	-0.0137
43	50	HDR BIAS	0.6325	0.6191	-0.0134
44	50	HDR BIAS	0.6341	0.622	-0.0121
45	50	HDR BIAS	0.632	0.6186	-0.0134
46	50	HDR UNBIAS	0.6318	0.6326	0.0008
47	50	HDR UNBIAS	0.6355	0.6354	-0.0001
48	50	HDR UNBIAS	0.6346	0.6347	0.0001
49	50	HDR UNBIAS	0.6367	0.638	0.0013
50	50	HDR UNBIAS	0.6307	0.6308	0.0001
71	0	CORRELATION	0.6286	0.6286	0
72	0	CORRELATION	0.6318	0.632	0.0002
73	0	CORRELATION	0.6313	0.6313	0

TID vs Post - Pre Exposure Delta

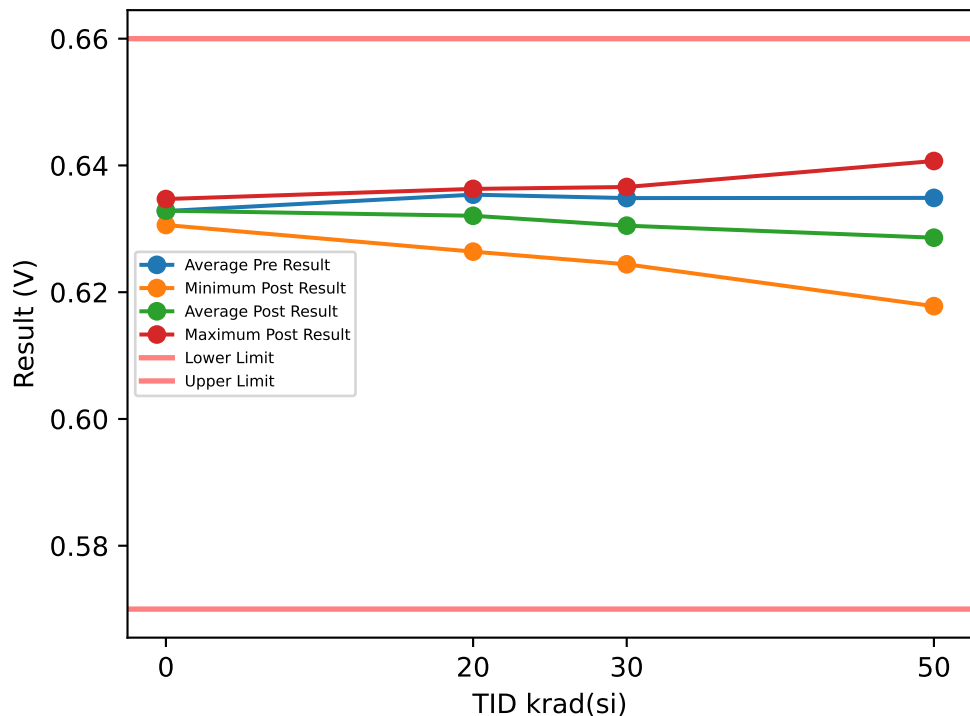


Test Statistics (V)

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	0.6286	0.63057	0.6318	0.0017214	0.6286	0.63063	0.632	0.0017954	0	6.6667e-05	0.0002	0.00011547
20	0.6312	0.63302	0.6353	0.0013998	0.6238	0.62995	0.6346	0.0038676	-0.0074	-0.00307	0.0008	0.0033692
30	0.6301	0.63257	0.6355	0.0016853	0.6227	0.62829	0.6339	0.0044928	-0.0099	-0.00428	0.0007	0.0044736
50	0.6298	0.63277	0.6367	0.0023665	0.6158	0.62633	0.638	0.0087563	-0.014	-0.00644	0.0013	0.0072789

Device Test: 16.10 LEVEL|EN\_RISE/EN/14/14/0/0/5/500kHz//@V\_EN\_RISE

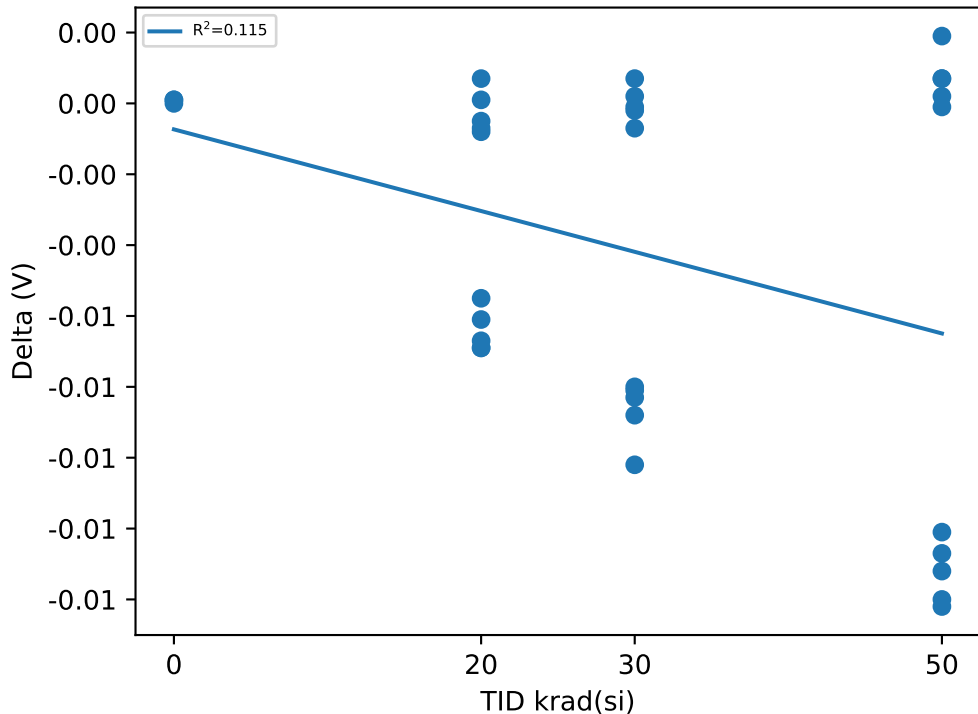
TID vs Result Stats



Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6347	0.6278	-0.0069
22	20	HDR BIAS	0.636	0.6293	-0.0067
23	20	HDR BIAS	0.6381	0.632	-0.0061
24	20	HDR BIAS	0.6333	0.6264	-0.0069
25	20	HDR BIAS	0.634	0.6285	-0.0055
26	20	HDR UNBIAS	0.6361	0.6354	-0.0007
27	20	HDR UNBIAS	0.6342	0.6334	-0.0008
28	20	HDR UNBIAS	0.6347	0.6354	0.0007
29	20	HDR UNBIAS	0.6368	0.6363	-0.0005
30	20	HDR UNBIAS	0.636	0.6361	0.0001
31	30	HDR BIAS	0.6353	0.6273	-0.008
32	30	HDR BIAS	0.6375	0.6287	-0.0088
33	30	HDR BIAS	0.6327	0.6244	-0.0083
34	30	HDR BIAS	0.6353	0.6251	-0.0102
35	30	HDR BIAS	0.6335	0.6254	-0.0081
36	30	HDR UNBIAS	0.6368	0.6366	-0.0002
37	30	HDR UNBIAS	0.6355	0.6354	-0.0001
38	30	HDR UNBIAS	0.634	0.6333	-0.0007
39	30	HDR UNBIAS	0.6347	0.6354	0.0007
40	30	HDR UNBIAS	0.6332	0.6334	0.0002
41	50	HDR BIAS	0.632	0.6178	-0.0142
42	50	HDR BIAS	0.6318	0.6191	-0.0127
43	50	HDR BIAS	0.6353	0.6213	-0.014
44	50	HDR BIAS	0.6361	0.624	-0.0121
45	50	HDR BIAS	0.6335	0.6203	-0.0132
46	50	HDR UNBIAS	0.6346	0.6348	0.0002
47	50	HDR UNBIAS	0.6373	0.638	0.0007
48	50	HDR UNBIAS	0.6368	0.6367	-0.0001
49	50	HDR UNBIAS	0.6388	0.6407	0.0019
50	50	HDR UNBIAS	0.6326	0.6333	0.0007
71	0	CORRELATION	0.6305	0.6306	0.0001
72	0	CORRELATION	0.6347	0.6347	0
73	0	CORRELATION	0.6332	0.6333	0.0001

TID vs Post - Pre Exposure Delta

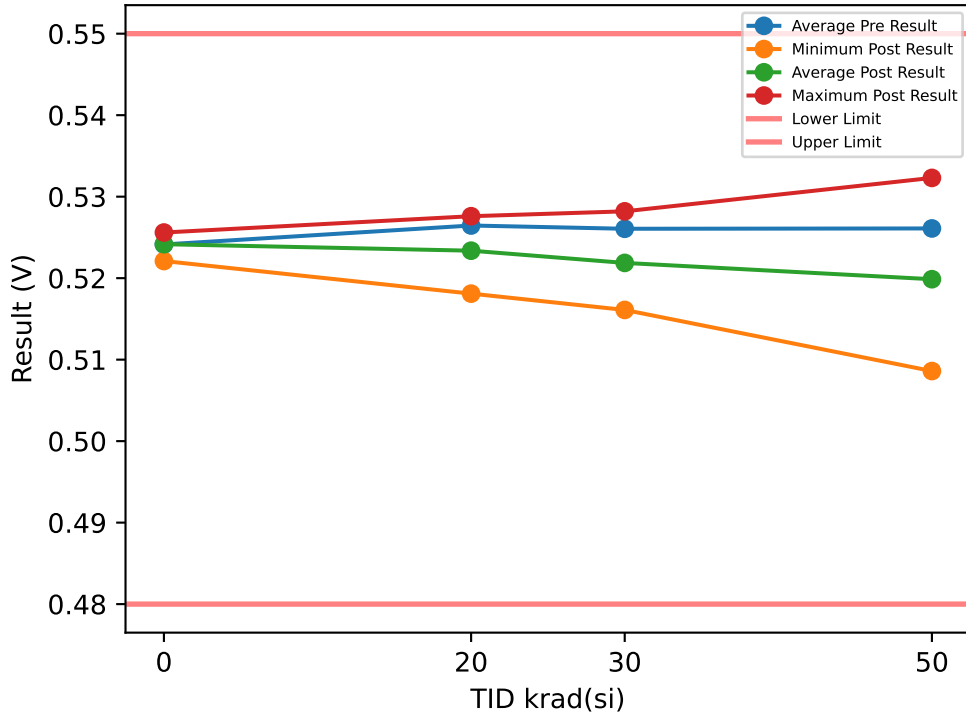


Test Statistics (V)

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	0.6305	0.6328	0.6347	0.0021284	0.6306	0.63287	0.6347	0.0020841	0	6.6667e-05	0.0001	5.7735e-05
20	0.6333	0.63539	0.6381	0.0014625	0.6264	0.63206	0.6363	0.0037842	-0.0069	-0.00333	0.0007	0.0033093
30	0.6327	0.63485	0.6375	0.0015479	0.6244	0.6305	0.6366	0.0047998	-0.0102	-0.00435	0.0007	0.0046167
50	0.6318	0.63488	0.6388	0.002393	0.6178	0.6286	0.6407	0.0088891	-0.0142	-0.00628	0.0019	0.0073774

# Device Test: 16.11 LEVEL|EN\_FALL/EN/14/14/0/0/5/500kHz//@V\_EN\_FALL

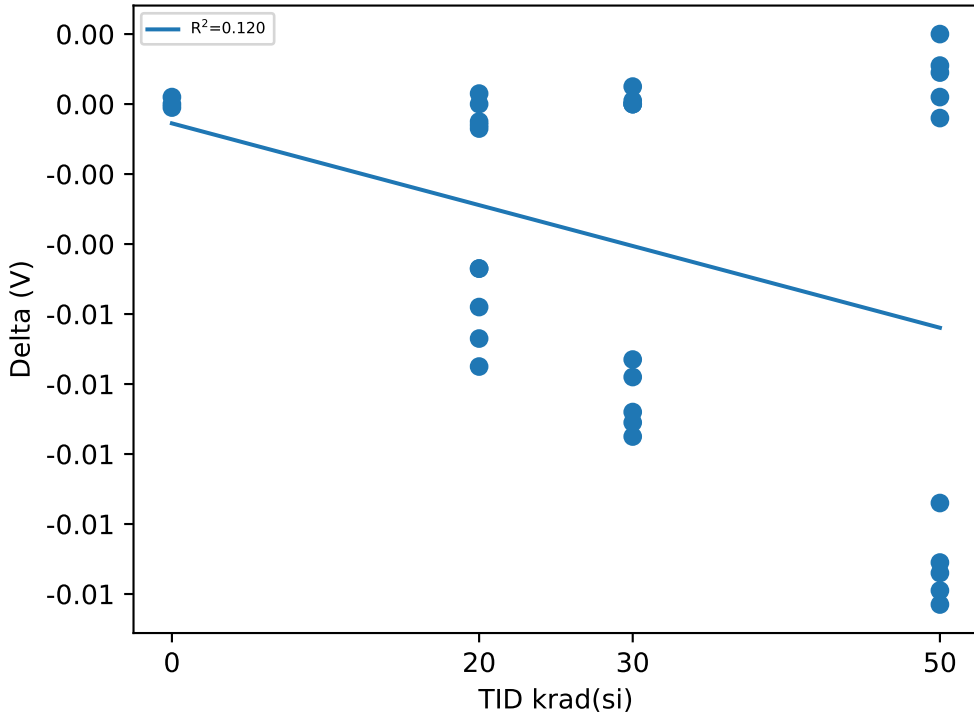
## TID vs Result Stats



## Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.5262	0.5195	-0.0067
22	20	HDR BIAS	0.5266	0.5208	-0.0058
23	20	HDR BIAS	0.5282	0.5235	-0.0047
24	20	HDR BIAS	0.5256	0.5181	-0.0075
25	20	HDR BIAS	0.5248	0.5201	-0.0047
26	20	HDR UNBIAS	0.5274	0.5269	-0.0005
27	20	HDR UNBIAS	0.5248	0.5241	-0.0007
28	20	HDR UNBIAS	0.526	0.5263	0.0003
29	20	HDR UNBIAS	0.5282	0.5276	-0.0006
30	20	HDR UNBIAS	0.5268	0.5268	0
31	30	HDR BIAS	0.5274	0.5183	-0.0091
32	30	HDR BIAS	0.5288	0.52	-0.0088
33	30	HDR BIAS	0.5234	0.5161	-0.0073
34	30	HDR BIAS	0.5261	0.5166	-0.0095
35	30	HDR BIAS	0.5248	0.517	-0.0078
36	30	HDR UNBIAS	0.5282	0.5282	0
37	30	HDR UNBIAS	0.5268	0.5268	0
38	30	HDR UNBIAS	0.524	0.5241	0.0001
39	30	HDR UNBIAS	0.5268	0.5268	0
40	30	HDR UNBIAS	0.5243	0.5248	0.0005
41	50	HDR BIAS	0.5229	0.5086	-0.0143
42	50	HDR BIAS	0.5232	0.5101	-0.0131
43	50	HDR BIAS	0.526	0.5126	-0.0134
44	50	HDR BIAS	0.5274	0.516	-0.0114
45	50	HDR BIAS	0.5251	0.5112	-0.0139
46	50	HDR UNBIAS	0.5254	0.5263	0.0009
47	50	HDR UNBIAS	0.5288	0.529	0.0002
48	50	HDR UNBIAS	0.5279	0.5275	-0.0004
49	50	HDR UNBIAS	0.5303	0.5323	0.002
50	50	HDR UNBIAS	0.524	0.5251	0.0011
71	0	CORRELATION	0.5222	0.5221	-0.0001
72	0	CORRELATION	0.5254	0.5256	0.0002
73	0	CORRELATION	0.5248	0.5248	0

## TID vs Post - Pre Exposure Delta

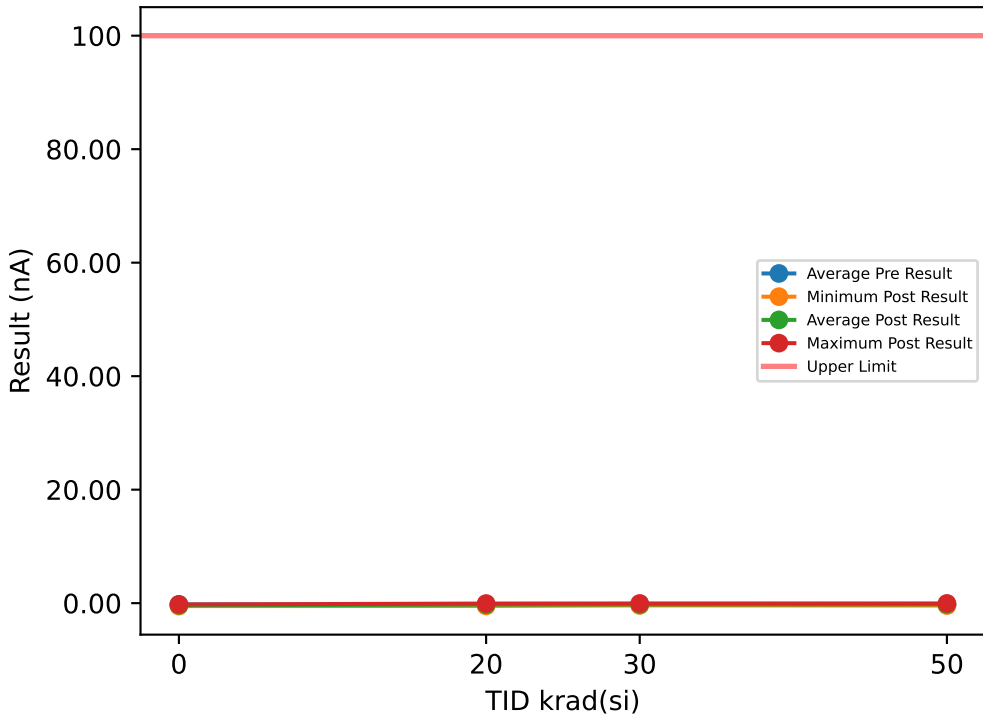


## Test Statistics (V)

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	0.5222	0.52413	0.5254	0.001701	0.5221	0.52417	0.5256	0.0018339	-0.0001	3.3333e-05	0.0002	0.00015275
20	0.5248	0.52646	0.5282	0.0012295	0.5181	0.52337	0.5276	0.0035166	-0.0075	-0.00309	0.0003	0.0030672
30	0.5234	0.52606	0.5288	0.0018554	0.5161	0.52187	0.5282	0.0047523	-0.0095	-0.00419	0.0005	0.0045866
50	0.5229	0.5261	0.5303	0.002459	0.5086	0.51987	0.5323	0.0090077	-0.0143	-0.00623	0.002	0.0074306

# Device Test: 16.15 LEAK|EN\_LEAK/EN/14/14/0/0/5/500kHz//@I\_EN\_LEAK\_1V

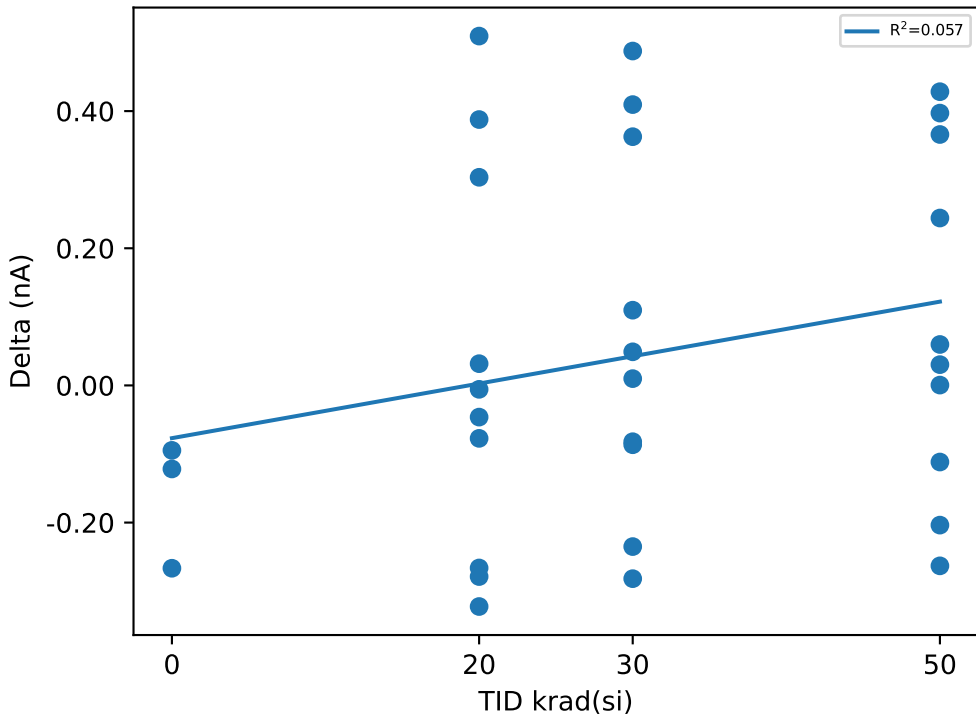
### TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.1891	-0.2353	-0.0462
22	20	HDR BIAS	-0.1682	-0.4906	-0.3224
23	20	HDR BIAS	-0.5926	-0.2891	0.3035
24	20	HDR BIAS	-0.2484	-0.3256	-0.0772
25	20	HDR BIAS	-0.1089	-0.3876	-0.2787
26	20	HDR UNBIAS	-0.5707	-0.183	0.3877
27	20	HDR UNBIAS	-0.2203	-0.1886	0.0317
28	20	HDR UNBIAS	-0.0527	-0.3189	-0.2662
29	20	HDR UNBIAS	-0.5769	-0.0675	0.5094
30	20	HDR UNBIAS	-0.1891	-0.1948	-0.0057
31	30	HDR BIAS	-0.0371	-0.2721	-0.235
32	30	HDR BIAS	-0.5395	-0.0519	0.4876
33	30	HDR BIAS	-0.2203	-0.2104	0.0099
34	30	HDR BIAS	0.0035	-0.2783	-0.2818
35	30	HDR BIAS	-0.5707	-0.208	0.3627
36	30	HDR UNBIAS	-0.2921	-0.3786	-0.0865
37	30	HDR UNBIAS	-0.2618	-0.2128	0.049
38	30	HDR UNBIAS	-0.5613	-0.1518	0.4095
39	30	HDR UNBIAS	-0.2765	-0.1668	0.1097
40	30	HDR UNBIAS	-0.318	-0.4001	-0.0821
41	50	HDR BIAS	-0.399	-0.1549	0.2441
42	50	HDR BIAS	-0.1641	-0.2758	-0.1117
43	50	HDR BIAS	-0.1588	-0.4219	-0.2631
44	50	HDR BIAS	-0.552	-0.1237	0.4283
45	50	HDR BIAS	-0.2203	-0.2198	0.0005
46	50	HDR UNBIAS	-0.3336	-0.3033	0.0303
47	50	HDR UNBIAS	-0.4458	-0.0487	0.3971
48	50	HDR UNBIAS	-0.2172	-0.1575	0.0597
49	50	HDR UNBIAS	-0.0777	-0.2814	-0.2037
50	50	HDR UNBIAS	-0.4802	-0.1143	0.3659
71	0	CORRELATION	-0.4271	-0.5218	-0.0947
72	0	CORRELATION	-0.1111	-0.2329	-0.1218
73	0	CORRELATION	-0.1089	-0.3755	-0.2666

### TID vs Post - Pre Exposure Delta

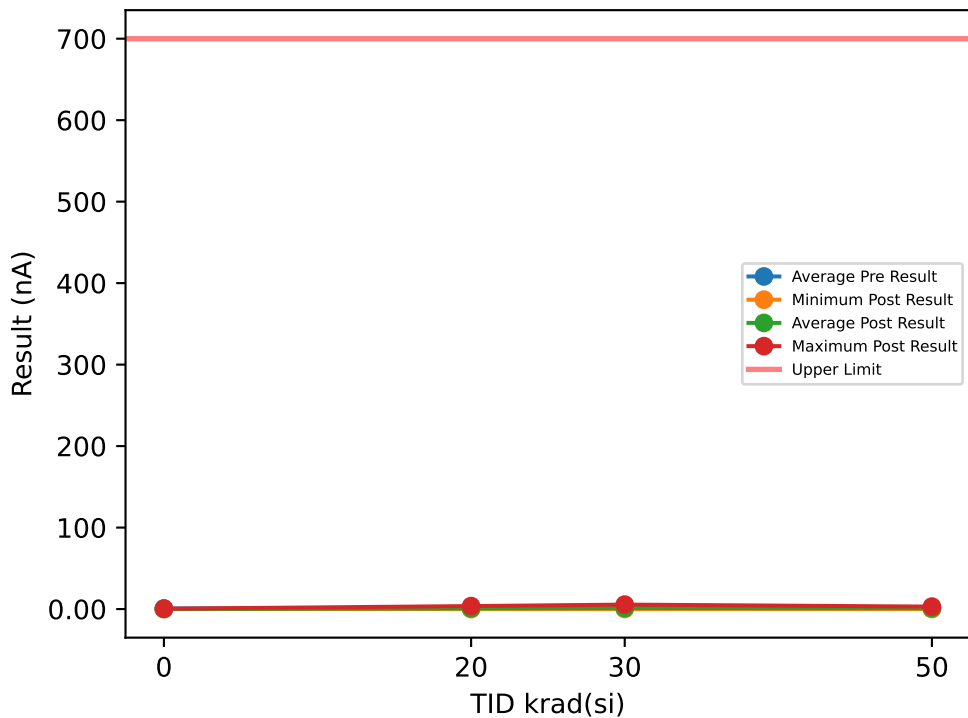


### Test Statistics (nA)

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	-0.4271	-0.2157	-0.1089	0.18308	-0.5218	-0.37673	-0.2329	0.14445	-0.2666	-0.16103	-0.0947	0.092422
20	-0.5926	-0.29169	-0.0527	0.20643	-0.4906	-0.2681	-0.0675	0.12035	-0.3224	0.02359	0.5094	0.2902
30	-0.5707	-0.30738	0.0035	0.20231	-0.4001	-0.23308	-0.0519	0.10436	-0.2818	0.0743	0.4876	0.26774
50	-0.552	-0.30487	-0.0777	0.1595	-0.4219	-0.21013	-0.0487	0.11133	-0.2631	0.09474	0.4283	0.25222

# Device Test: 16.16 LEAK|EN\_LEAK/EN/14/14/0/0/5/500kHz//@I\_EN\_LEAK

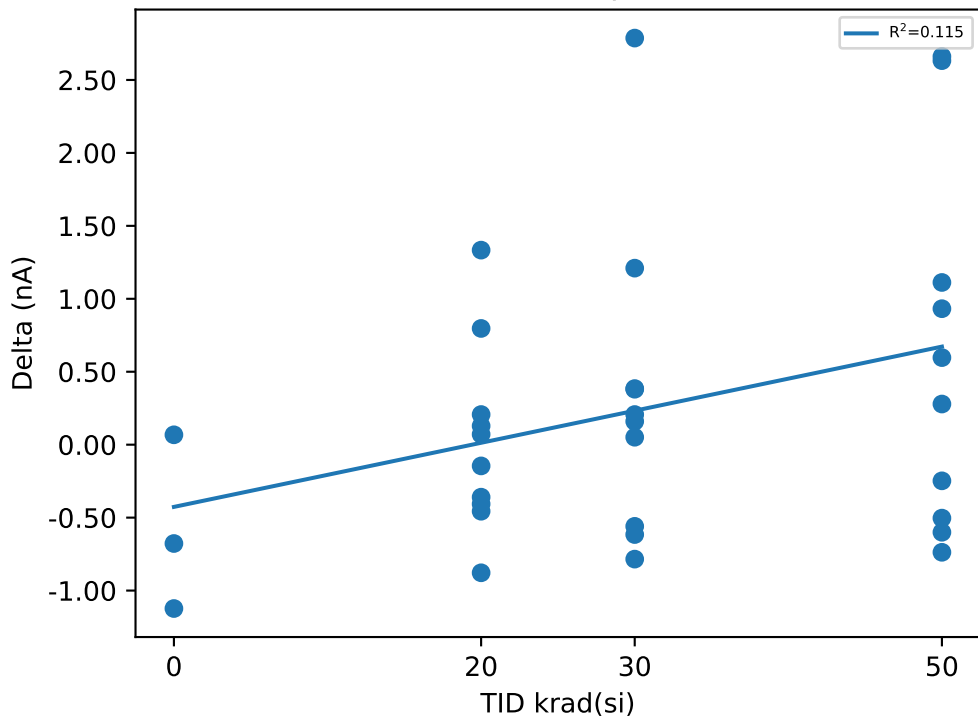
### TID vs Result Stats



### Test Results (Upper Limit = 700.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.7411	0.3813	-0.3598
22	20	HDR BIAS	0.9026	0.0245	-0.8781
23	20	HDR BIAS	-0.1898	-0.0612	0.1286
24	20	HDR BIAS	0.6849	0.2287	-0.4562
25	20	HDR BIAS	1.2085	0.8019	-0.4066
26	20	HDR UNBIAS	-0.0806	0.1261	0.2067
27	20	HDR UNBIAS	0.9939	0.8484	-0.1455
28	20	HDR UNBIAS	1.4239	1.4949	0.071
29	20	HDR UNBIAS	0.3627	1.1595	0.7968
30	20	HDR UNBIAS	2.3361	3.6697	1.3336
31	30	HDR BIAS	0.7715	0.1556	-0.6159
32	30	HDR BIAS	0.1723	0.3321	0.1598
33	30	HDR BIAS	1.8679	3.078	1.2101
34	30	HDR BIAS	2.6945	5.4816	2.7871
35	30	HDR BIAS	0.3908	0.5975	0.2067
36	30	HDR UNBIAS	0.9596	0.3999	-0.5597
37	30	HDR UNBIAS	1.1211	1.5012	0.3801
38	30	HDR UNBIAS	0.0318	0.4164	0.3846
39	30	HDR UNBIAS	0.8035	0.8546	0.0511
40	30	HDR UNBIAS	0.812	0.0276	-0.7844
41	50	HDR BIAS	-0.1274	0.9846	1.112
42	50	HDR BIAS	0.7941	0.5463	-0.2478
43	50	HDR BIAS	0.6122	0.1088	-0.5034
44	50	HDR BIAS	0.3502	3.0108	2.6606
45	50	HDR BIAS	0.9377	1.8698	0.9321
46	50	HDR UNBIAS	0.7434	0.1431	-0.6003
47	50	HDR UNBIAS	0.2535	2.8859	2.6324
48	50	HDR UNBIAS	0.7067	0.9854	0.2787
49	50	HDR UNBIAS	0.7777	0.0401	-0.7376
50	50	HDR UNBIAS	-0.1399	0.457	0.5969
71	0	CORRELATION	-0.0494	0.0183	0.0677
72	0	CORRELATION	1.0876	0.4102	-0.6774
73	0	CORRELATION	1.1648	0.0418	-1.123

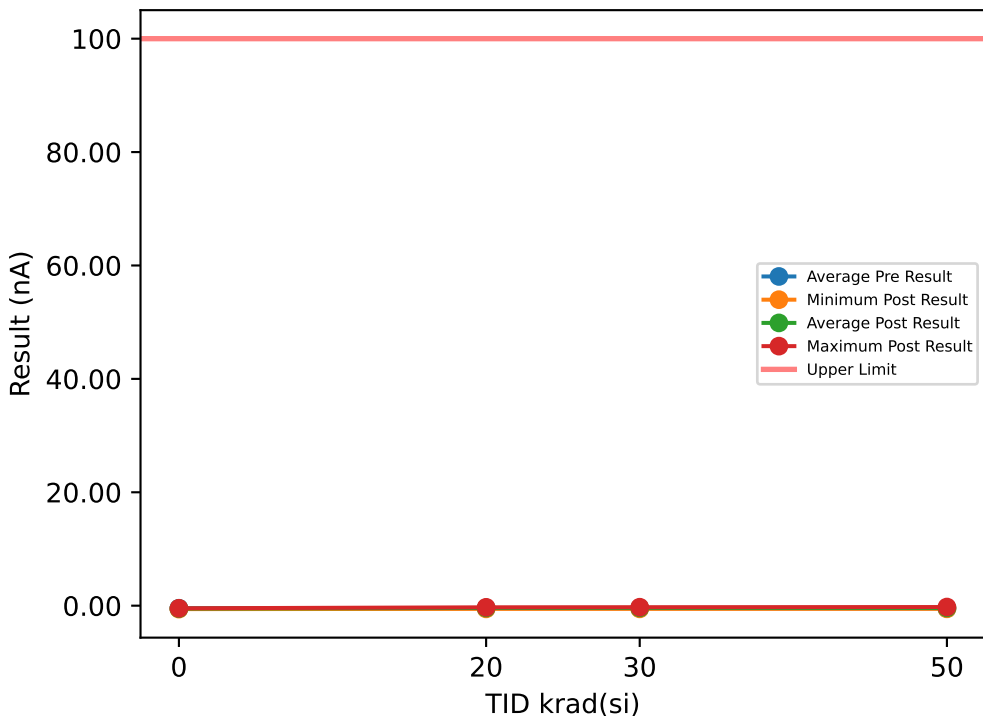
### TID vs Post - Pre Exposure Delta



### 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	-0.0494	0.73433	1.1648	0.67983	0.0183	0.15677	0.4102	0.21979	-1.123	-0.57757	0.0677	0.6016
20	-0.1898	0.83833	2.3361	0.73879	-0.0612	0.86738	3.6697	1.1107	-0.8781	0.02905	1.3336	0.64673
30	0.0318	0.9625	2.6945	0.79907	0.0276	1.2845	5.4816	1.7267	-0.7844	0.32195	2.7871	1.0471
50	-0.1399	0.49082	0.9377	0.38805	0.0401	1.1032	3.0108	1.1156	-0.7376	0.61236	2.6606	1.248

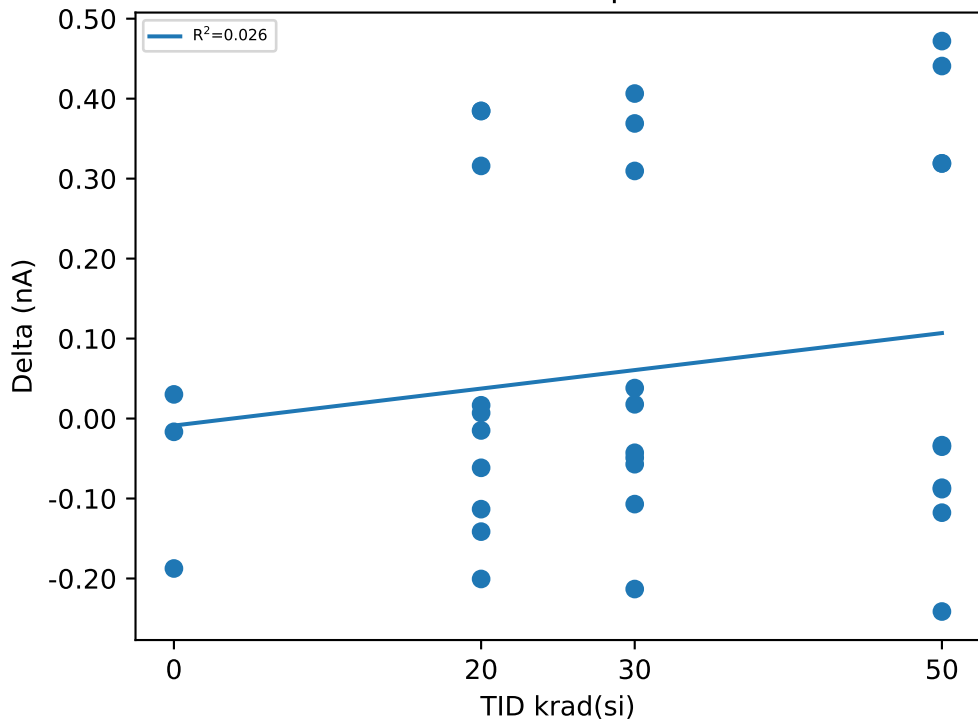
TID vs Result Stats



Test Results (Upper Limit = 100.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.3171	-0.3101	0.007
22	20	HDR BIAS	-0.3586	-0.5	-0.1414
23	20	HDR BIAS	-0.7643	-0.3797	0.3846
24	20	HDR BIAS	-0.417	-0.4004	0.0166
25	20	HDR BIAS	-0.3649	-0.5655	-0.2006
26	20	HDR UNBIAS	-0.7299	-0.414	0.3159
27	20	HDR UNBIAS	-0.2952	-0.3568	-0.0616
28	20	HDR UNBIAS	-0.3336	-0.4469	-0.1133
29	20	HDR UNBIAS	-0.7643	-0.3797	0.3846
30	20	HDR UNBIAS	-0.2734	-0.2883	-0.0149
31	30	HDR BIAS	-0.5053	-0.5624	-0.0571
32	30	HDR BIAS	-0.6893	-0.3797	0.3096
33	30	HDR BIAS	-0.3077	-0.2696	0.0381
34	30	HDR BIAS	-0.2868	-0.3938	-0.107
35	30	HDR BIAS	-0.6893	-0.3203	0.369
36	30	HDR UNBIAS	-0.314	-0.363	-0.049
37	30	HDR UNBIAS	-0.4616	-0.4438	0.0178
38	30	HDR UNBIAS	-0.758	-0.3516	0.4064
39	30	HDR UNBIAS	-0.314	-0.3568	-0.0428
40	30	HDR UNBIAS	-0.3461	-0.5593	-0.2132
41	50	HDR BIAS	-0.7112	-0.2392	0.472
42	50	HDR BIAS	-0.2484	-0.3661	-0.1177
43	50	HDR BIAS	-0.4648	-0.5	-0.0352
44	50	HDR BIAS	-0.6612	-0.3422	0.319
45	50	HDR BIAS	-0.2765	-0.363	-0.0865
46	50	HDR UNBIAS	-0.4679	-0.5562	-0.0883
47	50	HDR UNBIAS	-0.68	-0.3609	0.3191
48	50	HDR UNBIAS	-0.3858	-0.4191	-0.0333
49	50	HDR UNBIAS	-0.2899	-0.5312	-0.2413
50	50	HDR UNBIAS	-0.7705	-0.3297	0.4408
71	0	CORRELATION	-0.6363	-0.6061	0.0302
72	0	CORRELATION	-0.2765	-0.464	-0.1875
73	0	CORRELATION	-0.4429	-0.4595	-0.0166

TID vs Post - Pre Exposure Delta



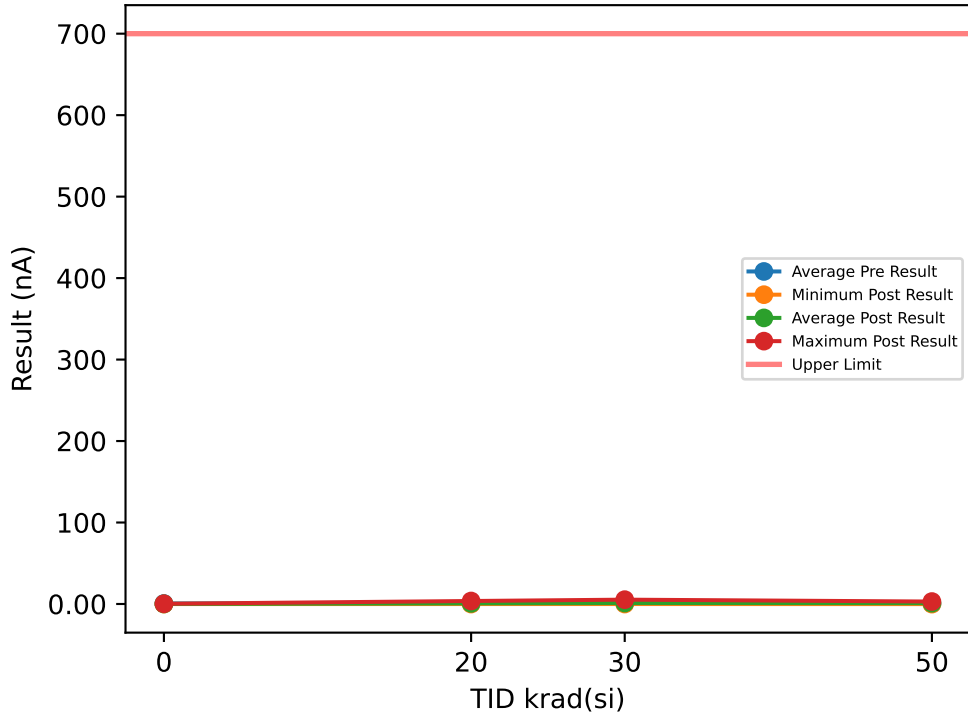
Test Statistics (nA)

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	-0.6363	-0.4519	-0.2765	0.18007	-0.6061	-0.50987	-0.4595	0.083371	-0.1875	-0.057967	0.0302	0.11459
20	-0.7643	-0.46183	-0.2734	0.20482	-0.5655	-0.40414	-0.2883	0.083576	-0.2006	0.05769	0.3846	0.22105
30	-0.758	-0.46721	-0.2868	0.18388	-0.5624	-0.40003	-0.2696	0.096063	-0.2132	0.06718	0.4064	0.21556
50	-0.7705	-0.49562	-0.2484	0.19683	-0.5562	-0.40076	-0.2392	0.10009	-0.2413	0.09486	0.472	0.26255



# Device Test: 16.18 LEAK|EN\_LEAK/EN/14/14/0/1000/5/500kHz//@I\_EN\_LEAK

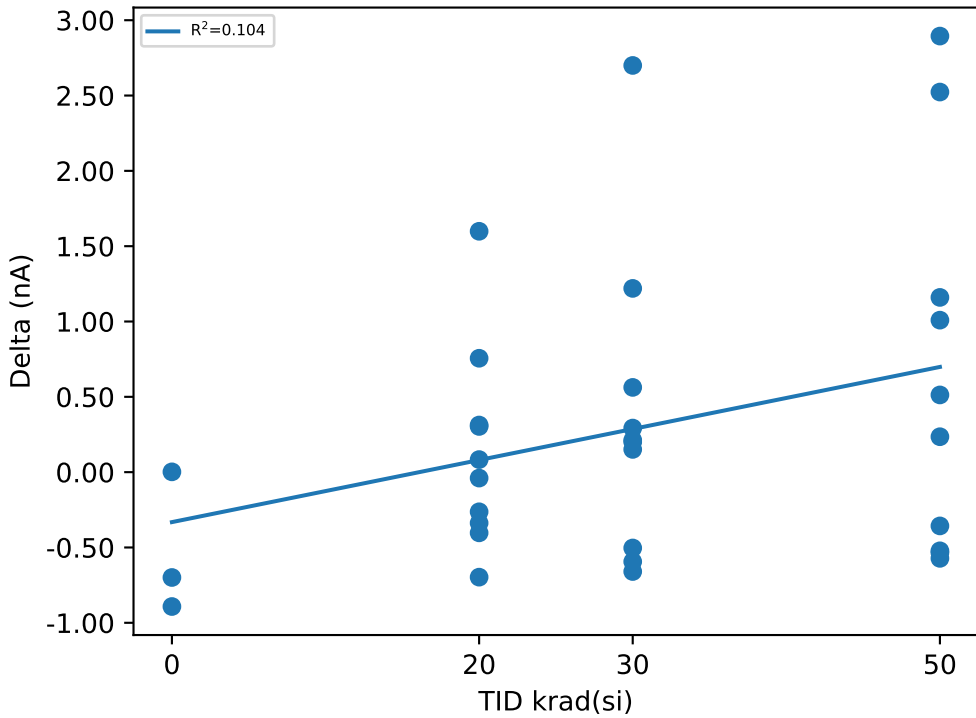
## TID vs Result Stats



## Test Results (Upper Limit = 700.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.5351	0.1975	-0.3376
22	20	HDR BIAS	0.6403	-0.0567	-0.697
23	20	HDR BIAS	-0.3865	-0.0831	0.3034
24	20	HDR BIAS	0.5475	0.1446	-0.4029
25	20	HDR BIAS	0.99	0.7269	-0.2631
26	20	HDR UNBIAS	-0.193	0.1199	0.3129
27	20	HDR UNBIAS	0.8628	0.8235	-0.0393
28	20	HDR UNBIAS	1.2959	1.3794	0.0835
29	20	HDR UNBIAS	0.1536	0.9097	0.7561
30	20	HDR UNBIAS	2.0677	3.6666	1.5989
31	30	HDR BIAS	0.5842	-0.0754	-0.6596
32	30	HDR BIAS	-0.1087	0.0918	0.2005
33	30	HDR BIAS	1.6838	2.9036	1.2198
34	30	HDR BIAS	2.6195	5.3193	2.6998
35	30	HDR BIAS	0.2066	0.4196	0.213
36	30	HDR UNBIAS	0.8316	0.3283	-0.5033
37	30	HDR UNBIAS	1.0649	1.3576	0.2927
38	30	HDR UNBIAS	-0.1961	0.3665	0.5626
39	30	HDR UNBIAS	0.6818	0.8328	0.151
40	30	HDR UNBIAS	0.5248	-0.0691	-0.5939
41	50	HDR BIAS	-0.1524	0.8566	1.009
42	50	HDR BIAS	0.816	0.4591	-0.3569
43	50	HDR BIAS	0.5966	0.062	-0.5346
44	50	HDR BIAS	0.1067	3.0014	2.8947
45	50	HDR BIAS	0.6911	1.8511	1.16
46	50	HDR UNBIAS	0.4343	-0.0879	-0.5222
47	50	HDR UNBIAS	0.1442	2.6674	2.5232
48	50	HDR UNBIAS	0.663	0.8982	0.2352
49	50	HDR UNBIAS	0.4156	-0.1566	-0.5722
50	50	HDR UNBIAS	-0.1898	0.3228	0.5126
71	0	CORRELATION	-0.0899	-0.0879	0.002
72	0	CORRELATION	0.9783	0.2791	-0.6992
73	0	CORRELATION	0.94	0.0481	-0.8919

## TID vs Post - Pre Exposure Delta



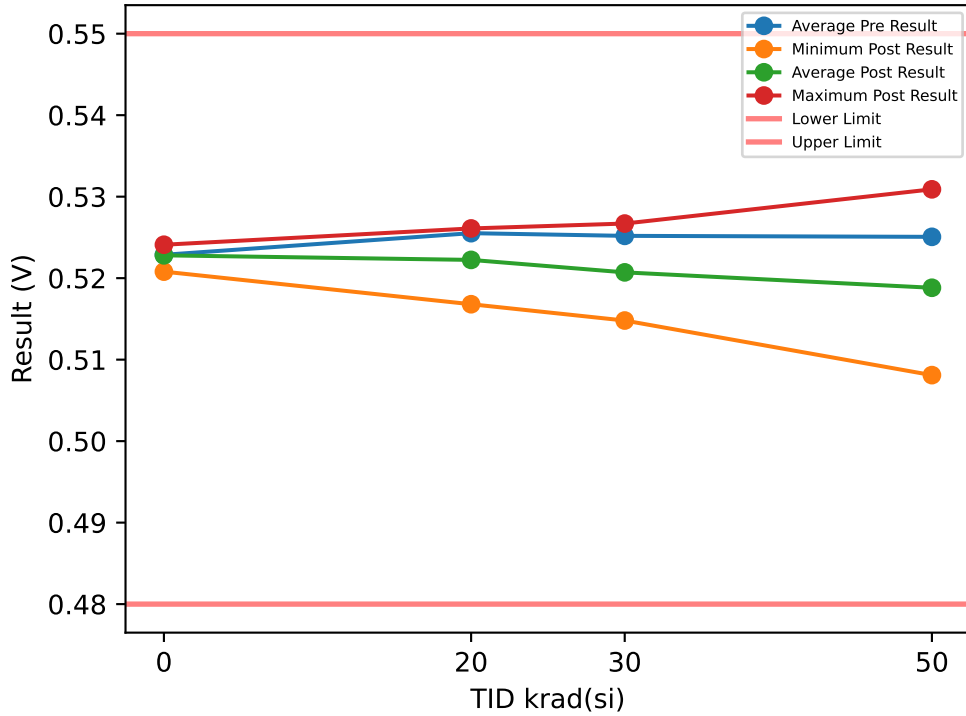
## Test Statistics (nA)

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	-0.0899	0.60947	0.9783	0.60597	-0.0879	0.079767	0.2791	0.18554	-0.8919	-0.5297	0.002	0.47044
20	-0.3865	0.65134	2.0677	0.71826	-0.0831	0.78283	3.6666	1.1223	-0.697	0.13149	1.5989	0.66542
30	-0.1961	0.78924	2.6195	0.84775	-0.0754	1.1475	5.3193	1.717	-0.6596	0.35826	2.6998	1.0025
50	-0.1898	0.35253	0.816	0.3573	-0.1566	0.98741	3.0014	1.1398	-0.5722	0.63488	2.8947	1.2654



# Device Test: 16.2 LEVEL|EN\_FALL/EN/4.5/4.5/0/0/4.5/500kHz//@V\_EN\_FALL

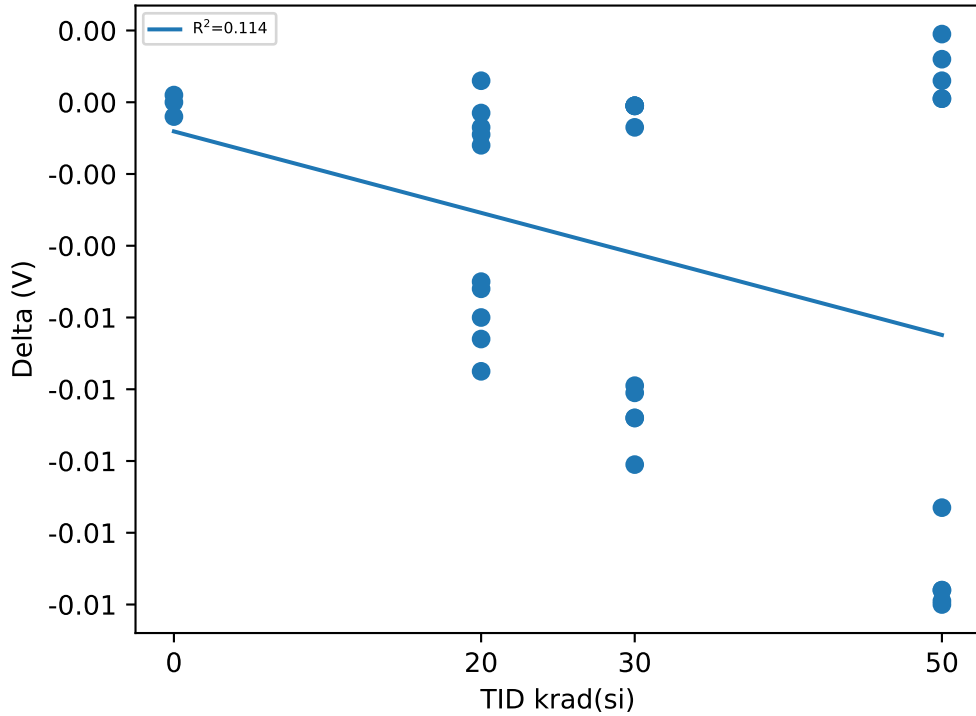
### TID vs Result Stats



### Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.5247	0.5181	-0.0066
22	20	HDR BIAS	0.5261	0.5201	-0.006
23	20	HDR BIAS	0.5274	0.5224	-0.005
24	20	HDR BIAS	0.5243	0.5168	-0.0075
25	20	HDR BIAS	0.5239	0.5187	-0.0052
26	20	HDR UNBIAS	0.5267	0.5255	-0.0012
27	20	HDR UNBIAS	0.5242	0.5233	-0.0009
28	20	HDR UNBIAS	0.5248	0.5254	0.0006
29	20	HDR UNBIAS	0.5268	0.5261	-0.0007
30	20	HDR UNBIAS	0.5263	0.526	-0.0003
31	30	HDR BIAS	0.5261	0.5173	-0.0088
32	30	HDR BIAS	0.5282	0.5194	-0.0088
33	30	HDR BIAS	0.5227	0.5148	-0.0079
34	30	HDR BIAS	0.5254	0.5153	-0.0101
35	30	HDR BIAS	0.524	0.5159	-0.0081
36	30	HDR UNBIAS	0.5268	0.5267	-0.0001
37	30	HDR UNBIAS	0.5261	0.5254	-0.0007
38	30	HDR UNBIAS	0.5237	0.5236	-0.0001
39	30	HDR UNBIAS	0.5254	0.5253	-0.0001
40	30	HDR UNBIAS	0.5235	0.5234	-0.0001
41	50	HDR BIAS	0.522	0.5081	-0.0139
42	50	HDR BIAS	0.5222	0.5086	-0.0136
43	50	HDR BIAS	0.5254	0.5114	-0.014
44	50	HDR BIAS	0.5262	0.5149	-0.0113
45	50	HDR BIAS	0.5242	0.5106	-0.0136
46	50	HDR UNBIAS	0.5248	0.5254	0.0006
47	50	HDR UNBIAS	0.5274	0.5275	0.0001
48	50	HDR UNBIAS	0.5267	0.5268	0.0001
49	50	HDR UNBIAS	0.529	0.5309	0.0019
50	50	HDR UNBIAS	0.5228	0.524	0.0012
71	0	CORRELATION	0.5208	0.5208	0
72	0	CORRELATION	0.5239	0.5241	0.0002
73	0	CORRELATION	0.5239	0.5235	-0.0004

### TID vs Post - Pre Exposure Delta

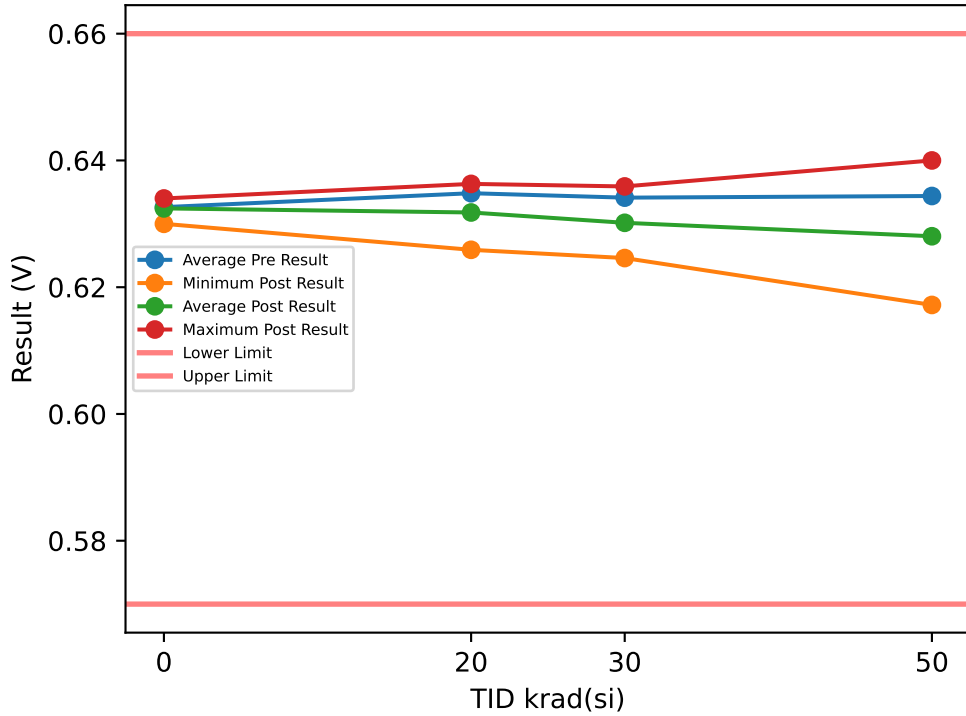


### Test Statistics (V)

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	0.5208	0.52287	0.5239	0.0017898	0.5208	0.5228	0.5241	0.0017578	-0.0004	-6.6667e-05	0.0002	0.00030551
20	0.5239	0.52552	0.5274	0.0012717	0.5168	0.52224	0.5261	0.0035691	-0.0075	-0.00328	0.0006	0.0030451
30	0.5227	0.52519	0.5282	0.0017026	0.5148	0.52071	0.5267	0.0046572	-0.0101	-0.00448	-0.0001	0.0045306
50	0.522	0.52507	0.529	0.0023229	0.5081	0.51882	0.5309	0.0088972	-0.014	-0.00625	0.0019	0.0074657

# Device Test: 16.4 LEVEL|EN\_RISE/EN/5/5/0/0/5/500kHz//@V\_EN\_RISE

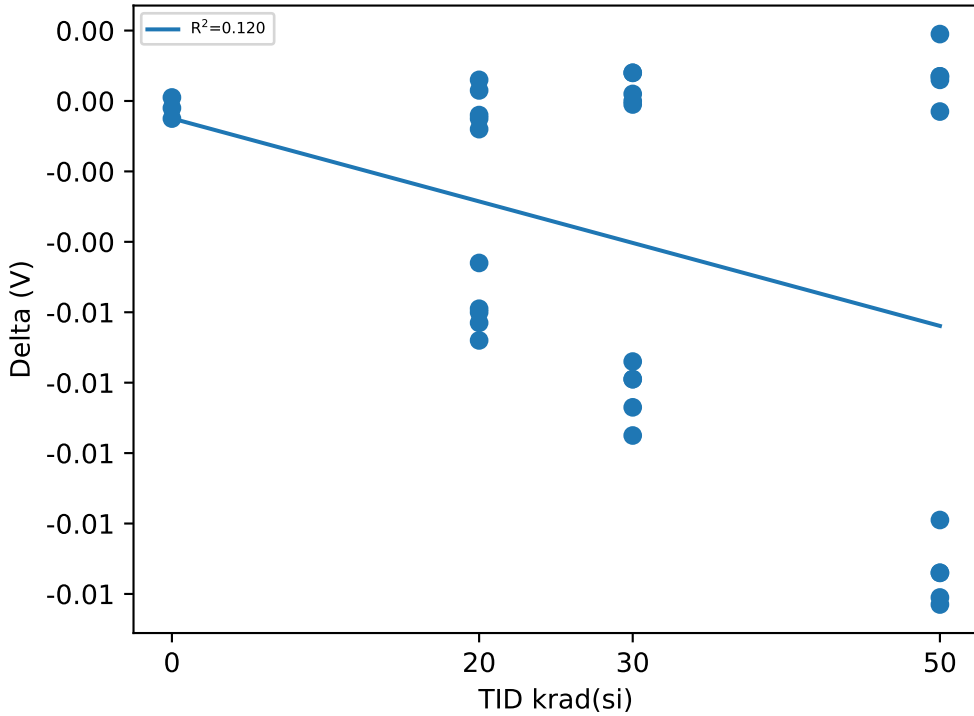
## TID vs Result Stats



## Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6342	0.6279	-0.0063
22	20	HDR BIAS	0.6353	0.6293	-0.006
23	20	HDR BIAS	0.6373	0.6314	-0.0059
24	20	HDR BIAS	0.6327	0.6259	-0.0068
25	20	HDR BIAS	0.6332	0.6286	-0.0046
26	20	HDR UNBIAS	0.6353	0.6348	-0.0005
27	20	HDR UNBIAS	0.6335	0.6327	-0.0008
28	20	HDR UNBIAS	0.6346	0.6349	0.0003
29	20	HDR UNBIAS	0.6367	0.6363	-0.0004
30	20	HDR UNBIAS	0.6355	0.6361	0.0006
31	30	HDR BIAS	0.6347	0.6268	-0.0079
32	30	HDR BIAS	0.6375	0.6288	-0.0087
33	30	HDR BIAS	0.632	0.6246	-0.0074
34	30	HDR BIAS	0.6346	0.6251	-0.0095
35	30	HDR BIAS	0.6326	0.6247	-0.0079
36	30	HDR UNBIAS	0.636	0.6359	-0.0001
37	30	HDR UNBIAS	0.6346	0.6348	0.0002
38	30	HDR UNBIAS	0.6326	0.6334	0.0008
39	30	HDR UNBIAS	0.6341	0.6349	0.0008
40	30	HDR UNBIAS	0.6326	0.6326	0
41	50	HDR BIAS	0.6313	0.6172	-0.0141
42	50	HDR BIAS	0.632	0.6186	-0.0134
43	50	HDR BIAS	0.6348	0.6205	-0.0143
44	50	HDR BIAS	0.6353	0.6234	-0.0119
45	50	HDR BIAS	0.6332	0.6198	-0.0134
46	50	HDR UNBIAS	0.6341	0.6348	0.0007
47	50	HDR UNBIAS	0.6367	0.6374	0.0007
48	50	HDR UNBIAS	0.6362	0.6359	-0.0003
49	50	HDR UNBIAS	0.6381	0.64	0.0019
50	50	HDR UNBIAS	0.6322	0.6328	0.0006
71	0	CORRELATION	0.6305	0.63	-0.0005
72	0	CORRELATION	0.6342	0.634	-0.0002
73	0	CORRELATION	0.6332	0.6333	0.0001

## TID vs Post - Pre Exposure Delta

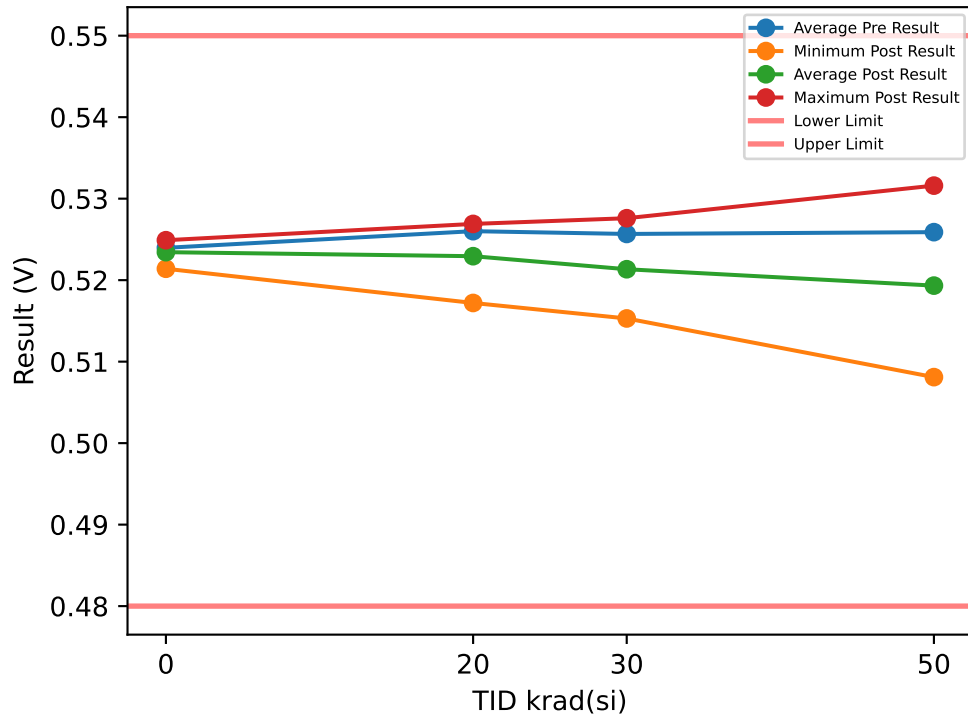


## Test Statistics (V)

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	0.6305	0.63263	0.6342	0.001914	0.63	0.63243	0.634	0.0021362	-0.0005	-0.0002	0.0001	0.0003
20	0.6327	0.63483	0.6373	0.001487	0.6259	0.63179	0.6363	0.0037242	-0.0068	-0.00304	0.0006	0.0031088
30	0.632	0.63413	0.6375	0.0017378	0.6246	0.63016	0.6359	0.0046292	-0.0095	-0.00397	0.0008	0.0045855
50	0.6313	0.63439	0.6381	0.0022343	0.6172	0.62804	0.64	0.008905	-0.0143	-0.00635	0.0019	0.007497

# Device Test: 16.5 LEVEL|EN\_FALL/EN/5/5/0/0/5/500kHz//@V\_EN\_FALL

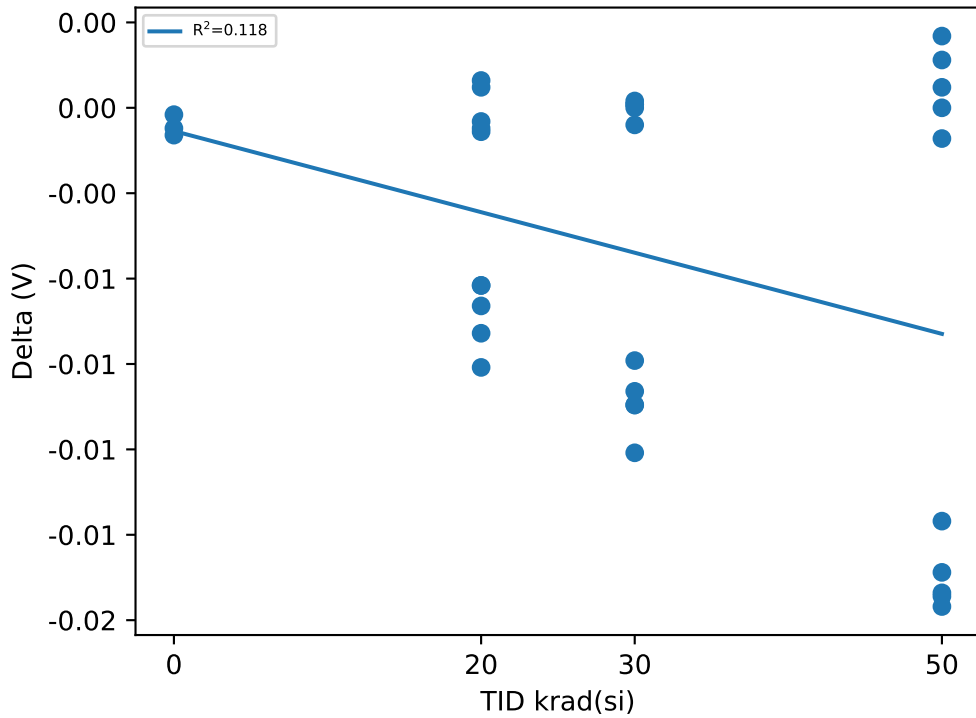
## TID vs Result Stats



## Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.5253	0.5187	-0.0066
22	20	HDR BIAS	0.5266	0.5208	-0.0058
23	20	HDR BIAS	0.528	0.5228	-0.0052
24	20	HDR BIAS	0.5248	0.5172	-0.0076
25	20	HDR BIAS	0.5246	0.5194	-0.0052
26	20	HDR UNBIAS	0.5268	0.5264	-0.0004
27	20	HDR UNBIAS	0.5249	0.5242	-0.0007
28	20	HDR UNBIAS	0.5254	0.5262	0.0008
29	20	HDR UNBIAS	0.5275	0.5269	-0.0006
30	20	HDR UNBIAS	0.5262	0.5268	0.0006
31	30	HDR BIAS	0.5266	0.5179	-0.0087
32	30	HDR BIAS	0.5282	0.5195	-0.0087
33	30	HDR BIAS	0.5236	0.5153	-0.0083
34	30	HDR BIAS	0.526	0.5159	-0.0101
35	30	HDR BIAS	0.5242	0.5168	-0.0074
36	30	HDR UNBIAS	0.5274	0.5276	0.0002
37	30	HDR UNBIAS	0.5266	0.5261	-0.0005
38	30	HDR UNBIAS	0.524	0.524	0
39	30	HDR UNBIAS	0.5261	0.5262	0.0001
40	30	HDR UNBIAS	0.524	0.5241	0.0001
41	50	HDR BIAS	0.5227	0.5081	-0.0146
42	50	HDR BIAS	0.5236	0.5093	-0.0143
43	50	HDR BIAS	0.5261	0.5119	-0.0142
44	50	HDR BIAS	0.5274	0.5153	-0.0121
45	50	HDR BIAS	0.5249	0.5113	-0.0136
46	50	HDR UNBIAS	0.5253	0.5259	0.0006
47	50	HDR UNBIAS	0.5282	0.5282	0
48	50	HDR UNBIAS	0.5277	0.5268	-0.0009
49	50	HDR UNBIAS	0.5295	0.5316	0.0021
50	50	HDR UNBIAS	0.5235	0.5249	0.0014
71	0	CORRELATION	0.522	0.5214	-0.0006
72	0	CORRELATION	0.5251	0.5249	-0.0002
73	0	CORRELATION	0.5248	0.524	-0.0008

## TID vs Post - Pre Exposure Delta

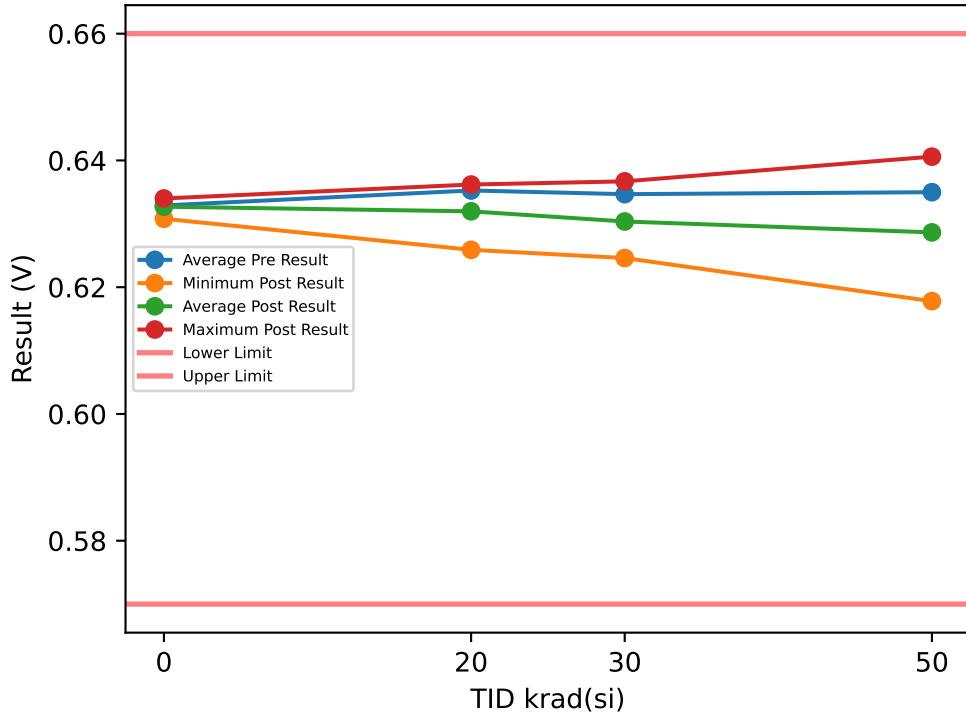


## Test Statistics (V)

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	0.522	0.52397	0.5251	0.0017098	0.5214	0.52343	0.5249	0.0018175	-0.0008	-0.00053333	-0.0002	0.00030551
20	0.5246	0.52601	0.528	0.0011902	0.5172	0.52294	0.5269	0.0036942	-0.0076	-0.00307	0.0008	0.0032796
30	0.5236	0.52567	0.5282	0.0016139	0.5153	0.52134	0.5276	0.0047383	-0.0101	-0.00433	0.0002	0.004593
50	0.5227	0.52589	0.5295	0.0022713	0.5081	0.51933	0.5316	0.0089558	-0.0146	-0.00656	0.0021	0.0076584

# Device Test: 16.7 LEVEL|EN\_RISE/EN/12/12/0/0/5/500kHz//@V\_EN\_RISE

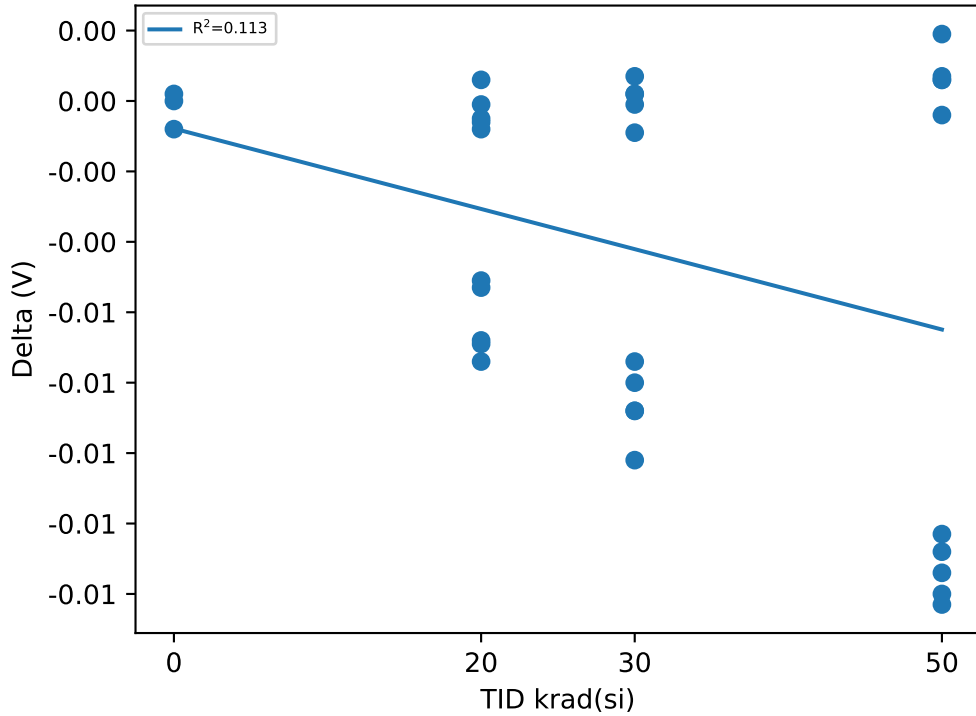
### TID vs Result Stats



### Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6348	0.6279	-0.0069
22	20	HDR BIAS	0.6361	0.6293	-0.0068
23	20	HDR BIAS	0.6373	0.6322	-0.0051
24	20	HDR BIAS	0.6333	0.6259	-0.0074
25	20	HDR BIAS	0.6341	0.6288	-0.0053
26	20	HDR UNBIAS	0.6361	0.6353	-0.0008
27	20	HDR UNBIAS	0.6333	0.6327	-0.0006
28	20	HDR UNBIAS	0.6347	0.6353	0.0006
29	20	HDR UNBIAS	0.6367	0.6362	-0.0005
30	20	HDR UNBIAS	0.6362	0.6361	-0.0001
31	30	HDR BIAS	0.6353	0.6265	-0.0088
32	30	HDR BIAS	0.6375	0.6287	-0.0088
33	30	HDR BIAS	0.632	0.6246	-0.0074
34	30	HDR BIAS	0.6353	0.6251	-0.0102
35	30	HDR BIAS	0.6333	0.6253	-0.008
36	30	HDR UNBIAS	0.6368	0.6367	-0.0001
37	30	HDR UNBIAS	0.6355	0.6346	-0.0009
38	30	HDR UNBIAS	0.6332	0.6334	0.0002
39	30	HDR UNBIAS	0.6347	0.6354	0.0007
40	30	HDR UNBIAS	0.6332	0.6334	0.0002
41	50	HDR BIAS	0.6321	0.6178	-0.0143
42	50	HDR BIAS	0.6321	0.6193	-0.0128
43	50	HDR BIAS	0.6353	0.6213	-0.014
44	50	HDR BIAS	0.6362	0.6239	-0.0123
45	50	HDR BIAS	0.634	0.6206	-0.0134
46	50	HDR UNBIAS	0.6347	0.6353	0.0006
47	50	HDR UNBIAS	0.6373	0.638	0.0007
48	50	HDR UNBIAS	0.6368	0.6364	-0.0004
49	50	HDR UNBIAS	0.6387	0.6406	0.0019
50	50	HDR UNBIAS	0.6327	0.6333	0.0006
71	0	CORRELATION	0.6306	0.6308	0.0002
72	0	CORRELATION	0.6348	0.634	-0.0008
73	0	CORRELATION	0.6333	0.6333	0

### TID vs Post - Pre Exposure Delta

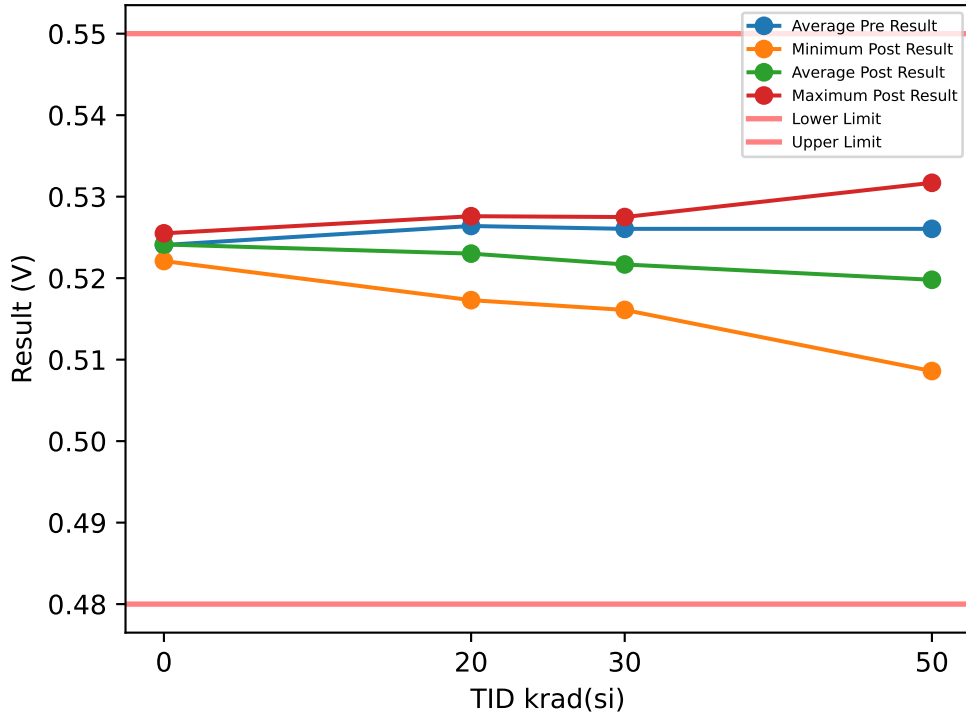


### Test Statistics (V)

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	0.6306	0.6329	0.6348	0.0021284	0.6308	0.6327	0.634	0.0016823	-0.0008	-0.0002	0.0002	0.00052915
20	0.6333	0.63526	0.6373	0.0014175	0.6259	0.63197	0.6362	0.0037757	-0.0074	-0.00329	0.0006	0.0032675
30	0.632	0.63468	0.6375	0.0017434	0.6246	0.63037	0.6367	0.0047861	-0.0102	-0.00431	0.0007	0.0046345
50	0.6321	0.63499	0.6387	0.002284	0.6178	0.62865	0.6406	0.0088359	-0.0143	-0.00634	0.0019	0.0074402

# Device Test: 16.8 LEVEL|EN\_FALL/EN/12/12/0/0/5/500kHz//@V\_EN\_FALL

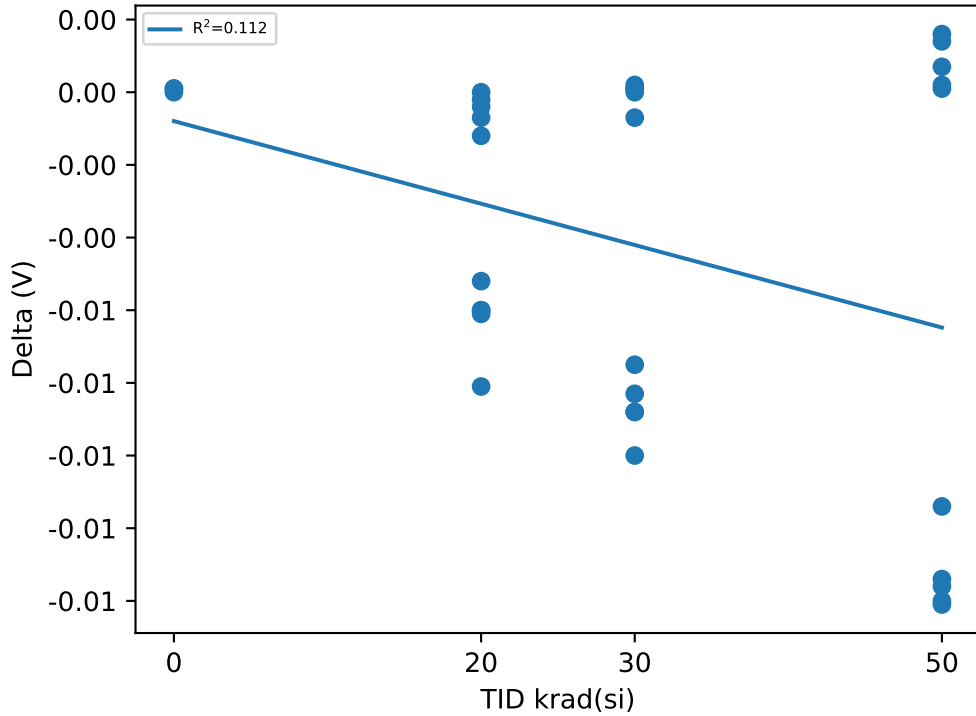
### TID vs Result Stats



### Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.5254	0.5193	-0.0061
22	20	HDR BIAS	0.5268	0.5208	-0.006
23	20	HDR BIAS	0.528	0.5228	-0.0052
24	20	HDR BIAS	0.5254	0.5173	-0.0081
25	20	HDR BIAS	0.5253	0.5193	-0.006
26	20	HDR UNBIAS	0.5274	0.5262	-0.0012
27	20	HDR UNBIAS	0.5248	0.5241	-0.0007
28	20	HDR UNBIAS	0.5261	0.5261	0
29	20	HDR UNBIAS	0.528	0.5276	-0.0004
30	20	HDR UNBIAS	0.5268	0.5266	-0.0002
31	30	HDR BIAS	0.5269	0.5181	-0.0088
32	30	HDR BIAS	0.5288	0.52	-0.0088
33	30	HDR BIAS	0.5236	0.5161	-0.0075
34	30	HDR BIAS	0.5261	0.5161	-0.01
35	30	HDR BIAS	0.5249	0.5166	-0.0083
36	30	HDR UNBIAS	0.5282	0.5275	-0.0007
37	30	HDR UNBIAS	0.5266	0.5267	0.0001
38	30	HDR UNBIAS	0.524	0.5241	0.0001
39	30	HDR UNBIAS	0.5268	0.5268	0
40	30	HDR UNBIAS	0.5246	0.5248	0.0002
41	50	HDR BIAS	0.5227	0.5086	-0.0141
42	50	HDR BIAS	0.5236	0.51	-0.0136
43	50	HDR BIAS	0.5261	0.5121	-0.014
44	50	HDR BIAS	0.5274	0.516	-0.0114
45	50	HDR BIAS	0.5249	0.5115	-0.0134
46	50	HDR UNBIAS	0.5254	0.5268	0.0014
47	50	HDR UNBIAS	0.5289	0.529	0.0001
48	50	HDR UNBIAS	0.5274	0.5276	0.0002
49	50	HDR UNBIAS	0.5301	0.5317	0.0016
50	50	HDR UNBIAS	0.524	0.5247	0.0007
71	0	CORRELATION	0.522	0.5221	0.0001
72	0	CORRELATION	0.5254	0.5255	0.0001
73	0	CORRELATION	0.5248	0.5248	0

### TID vs Post - Pre Exposure Delta

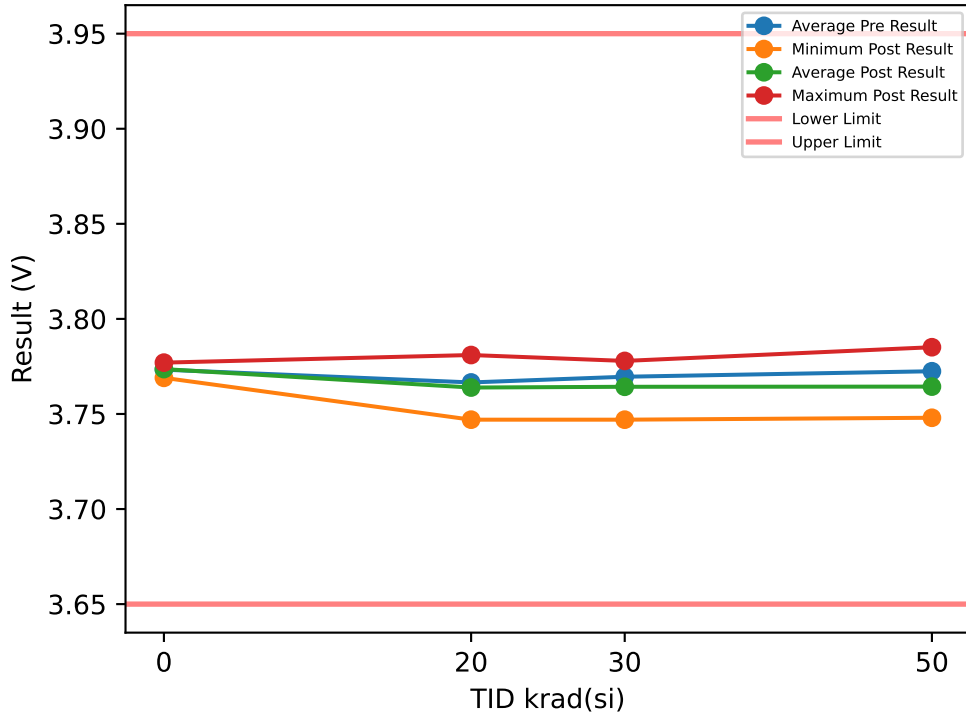


### Test Statistics (V)

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	0.522	0.52407	0.5254	0.0018148	0.5221	0.52413	0.5255	0.0017954	0	6.6667e-05	0.0001	5.7735e-05
20	0.5248	0.5264	0.528	0.001169	0.5173	0.52301	0.5276	0.0036504	-0.0081	-0.00339	0	0.0031459
30	0.5236	0.52605	0.5288	0.001745	0.5161	0.52168	0.5275	0.0047679	-0.01	-0.00437	0.0002	0.0045899
50	0.5227	0.52605	0.5301	0.0023885	0.5086	0.5198	0.5317	0.0089703	-0.0141	-0.00625	0.0016	0.0074813

# Device Test: 17.1 UVLO|PVIN\_RISE/PVIN/4.5/4.5/0/1000/4.5/100kHz//@PVIN\_UVLO\_RISE

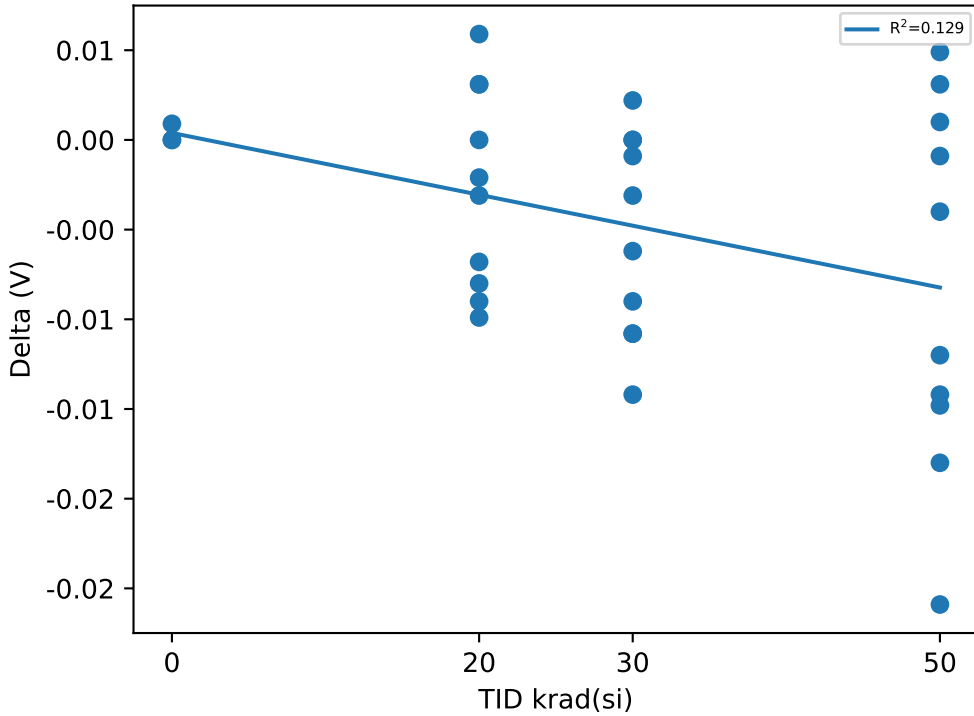
### TID vs Result Stats



### Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7699	3.7631	-0.0068
22	20	HDR BIAS	3.7699	3.7619	-0.008
23	20	HDR BIAS	3.7699	3.76	-0.0099
24	20	HDR BIAS	3.756	3.747	-0.009
25	20	HDR BIAS	3.768	3.7659	-0.0021
26	20	HDR UNBIAS	3.764	3.7671	0.0031
27	20	HDR UNBIAS	3.7671	3.7671	0
28	20	HDR UNBIAS	3.7779	3.781	0.0031
29	20	HDR UNBIAS	3.7631	3.769	0.0059
30	20	HDR UNBIAS	3.76	3.7569	-0.0031
31	30	HDR BIAS	3.7841	3.7779	-0.0062
32	30	HDR BIAS	3.7761	3.7671	-0.009
33	30	HDR BIAS	3.7609	3.7501	-0.0108
34	30	HDR BIAS	3.7761	3.7619	-0.0142
35	30	HDR BIAS	3.7578	3.747	-0.0108
36	30	HDR UNBIAS	3.7659	3.7659	0
37	30	HDR UNBIAS	3.7551	3.752	-0.0031
38	30	HDR UNBIAS	3.7748	3.7739	-0.0009
39	30	HDR UNBIAS	3.7711	3.7711	0
40	30	HDR UNBIAS	3.7739	3.7761	0.0022
41	50	HDR BIAS	3.7789	3.7609	-0.018
42	50	HDR BIAS	3.76	3.748	-0.012
43	50	HDR BIAS	3.7699	3.7551	-0.0148
44	50	HDR BIAS	3.7748	3.7489	-0.0259
45	50	HDR BIAS	3.7711	3.7569	-0.0142
46	50	HDR UNBIAS	3.7789	3.782	0.0031
47	50	HDR UNBIAS	3.7659	3.765	-0.0009
48	50	HDR UNBIAS	3.7721	3.777	0.0049
49	50	HDR UNBIAS	3.7841	3.7851	0.001
50	50	HDR UNBIAS	3.769	3.765	-0.004
71	0	CORRELATION	3.777	3.777	0
72	0	CORRELATION	3.769	3.769	0
73	0	CORRELATION	3.7739	3.7748	0.0009

### TID vs Post - Pre Exposure Delta



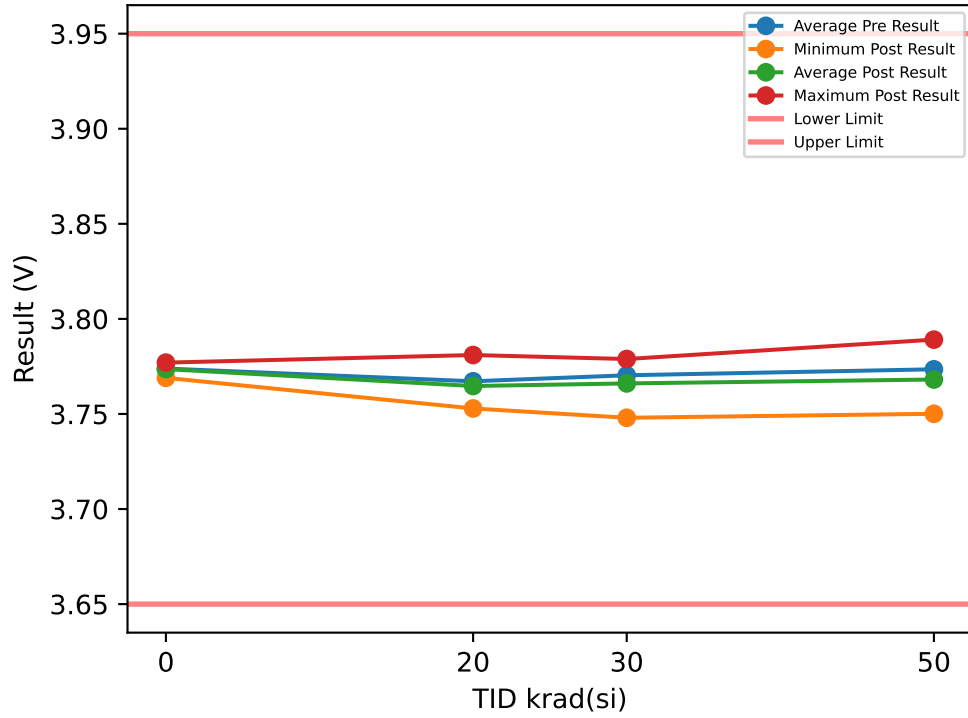
### Test Statistics (V)

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	3.769	3.7733	3.777	0.0040336	3.769	3.7736	3.777	0.0041328	0	0.0003	0.0009	0.00051962
20	3.756	3.7666	3.7779	0.0061237	3.747	3.7639	3.781	0.0088025	-0.0099	-0.00268	0.0059	0.005632
30	3.7551	3.7696	3.7841	0.0093178	3.747	3.7643	3.7779	0.01121	-0.0142	-0.00528	0.0022	0.0056846
50	3.76	3.7725	3.7841	0.0070135	3.748	3.7644	3.7851	0.013174	-0.0259	-0.00808	0.0049	0.010317



# Device Test: 17.10 UVLO|PVIN\_RISE/PVIN/4.5/4.5/0/1000/4.5/500kHz//@PVIN\_UVLO\_RISE

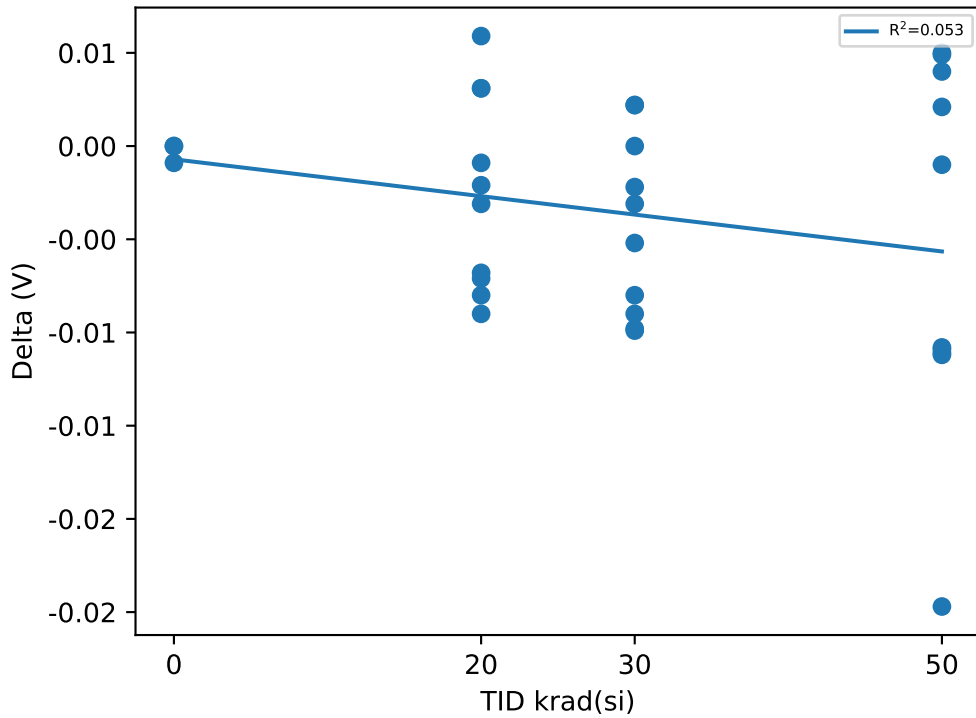
### TID vs Result Stats



### Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7699	3.7631	-0.0068
22	20	HDR BIAS	3.7711	3.7631	-0.008
23	20	HDR BIAS	3.7699	3.7609	-0.009
24	20	HDR BIAS	3.76	3.7529	-0.0071
25	20	HDR BIAS	3.768	3.7659	-0.0021
26	20	HDR UNBIAS	3.764	3.7671	0.0031
27	20	HDR UNBIAS	3.768	3.7671	-0.0009
28	20	HDR UNBIAS	3.7779	3.781	0.0031
29	20	HDR UNBIAS	3.7631	3.769	0.0059
30	20	HDR UNBIAS	3.76	3.7569	-0.0031
31	30	HDR BIAS	3.7841	3.7789	-0.0052
32	30	HDR BIAS	3.777	3.768	-0.009
33	30	HDR BIAS	3.7609	3.751	-0.0099
34	30	HDR BIAS	3.777	3.769	-0.008
35	30	HDR BIAS	3.7578	3.748	-0.0098
36	30	HDR UNBIAS	3.7659	3.7659	0
37	30	HDR UNBIAS	3.756	3.7529	-0.0031
38	30	HDR UNBIAS	3.7761	3.7739	-0.0022
39	30	HDR UNBIAS	3.7739	3.7761	0.0022
40	30	HDR UNBIAS	3.7748	3.777	0.0022
41	50	HDR BIAS	3.7789	3.768	-0.0109
42	50	HDR BIAS	3.7609	3.7501	-0.0108
43	50	HDR BIAS	3.7711	3.76	-0.0111
44	50	HDR BIAS	3.7748	3.7501	-0.0247
45	50	HDR BIAS	3.7721	3.7609	-0.0112
46	50	HDR UNBIAS	3.7789	3.7829	0.004
47	50	HDR UNBIAS	3.7721	3.7711	-0.001
48	50	HDR UNBIAS	3.773	3.7779	0.0049
49	50	HDR UNBIAS	3.7841	3.7891	0.005
50	50	HDR UNBIAS	3.769	3.7711	0.0021
71	0	CORRELATION	3.777	3.777	0
72	0	CORRELATION	3.7699	3.769	-0.0009
73	0	CORRELATION	3.7748	3.7748	0

### TID vs Post - Pre Exposure Delta

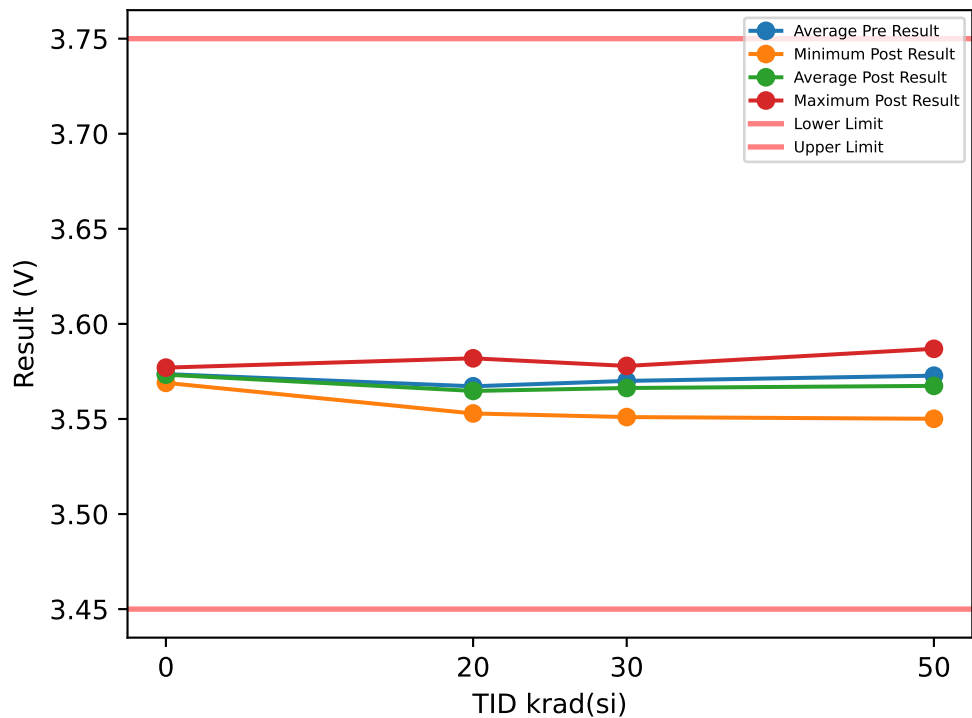


### Test Statistics (V)

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	3.7699	3.7739	3.777	0.0036346	3.769	3.7736	3.777	0.0041328	-0.0009	-0.0003	0	0.00051962
20	3.76	3.7672	3.7779	0.0055406	3.7529	3.7647	3.781	0.0075776	-0.009	-0.00249	0.0059	0.0052547
30	3.756	3.7703	3.7841	0.009519	3.748	3.7661	3.7789	0.011477	-0.0099	-0.00428	0.0022	0.0047962
50	3.7609	3.7735	3.7841	0.006336	3.7501	3.7681	3.7891	0.013079	-0.0247	-0.00537	0.005	0.0098671



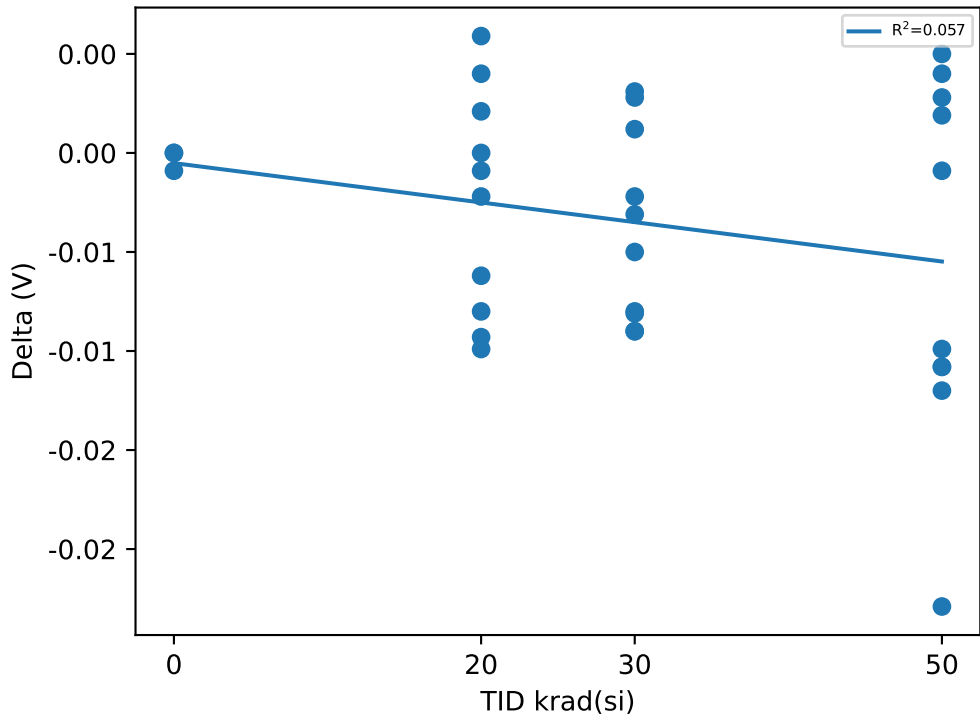
TID vs Result Stats



Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.568	3.5618	-0.0062
22	20	HDR BIAS	3.5711	3.5618	-0.0093
23	20	HDR BIAS	3.569	3.5591	-0.0099
24	20	HDR BIAS	3.5609	3.5529	-0.008
25	20	HDR BIAS	3.568	3.568	0
26	20	HDR UNBIAS	3.5659	3.568	0.0021
27	20	HDR UNBIAS	3.568	3.5671	-0.0009
28	20	HDR UNBIAS	3.5779	3.5819	0.004
29	20	HDR UNBIAS	3.564	3.5699	0.0059
30	20	HDR UNBIAS	3.5591	3.5569	-0.0022
31	30	HDR BIAS	3.5829	3.5779	-0.005
32	30	HDR BIAS	3.577	3.568	-0.009
33	30	HDR BIAS	3.56	3.551	-0.009
34	30	HDR BIAS	3.5751	3.5671	-0.008
35	30	HDR BIAS	3.5591	3.551	-0.0081
36	30	HDR UNBIAS	3.5659	3.5671	0.0012
37	30	HDR UNBIAS	3.556	3.5529	-0.0031
38	30	HDR UNBIAS	3.5761	3.5739	-0.0022
39	30	HDR UNBIAS	3.573	3.5761	0.0031
40	30	HDR UNBIAS	3.5751	3.5779	0.0028
41	50	HDR BIAS	3.5779	3.5671	-0.0108
42	50	HDR BIAS	3.5609	3.5501	-0.0108
43	50	HDR BIAS	3.5699	3.56	-0.0099
44	50	HDR BIAS	3.5739	3.551	-0.0229
45	50	HDR BIAS	3.572	3.56	-0.012
46	50	HDR UNBIAS	3.577	3.581	0.004
47	50	HDR UNBIAS	3.572	3.5711	-0.0009
48	50	HDR UNBIAS	3.572	3.577	0.005
49	50	HDR UNBIAS	3.5841	3.5869	0.0028
50	50	HDR UNBIAS	3.568	3.5699	0.0019
71	0	CORRELATION	3.577	3.577	0
72	0	CORRELATION	3.5699	3.569	-0.0009
73	0	CORRELATION	3.5739	3.5739	0

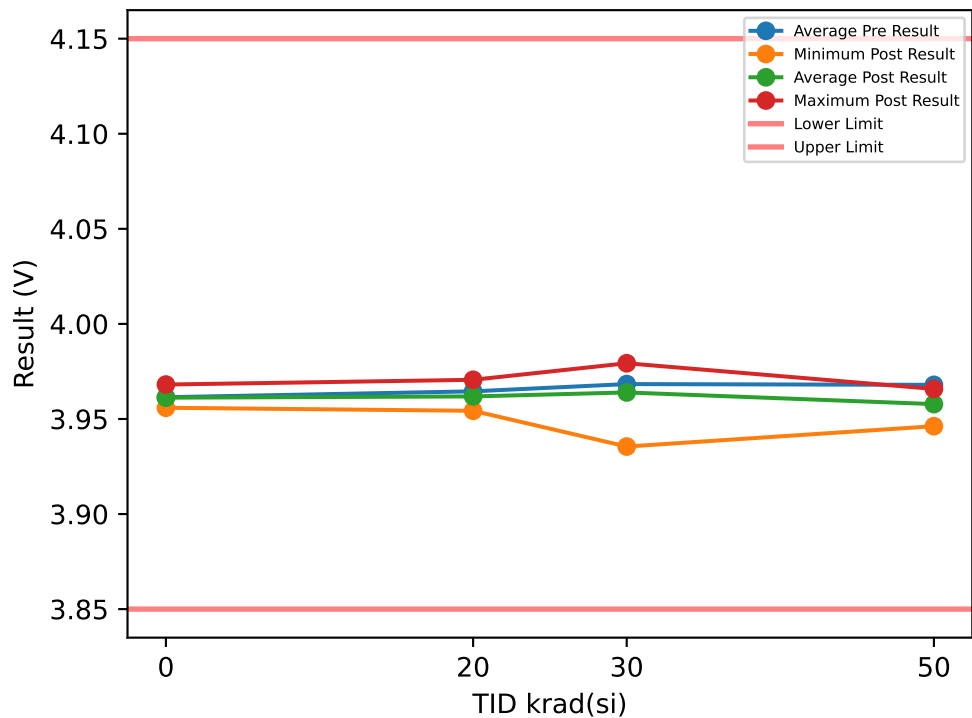
TID vs Post - Pre Exposure Delta



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	3.5699	3.5736	3.577	0.0035595	3.569	3.5733	3.577	0.0040336	-0.0009	-0.0003	0	0.00051962
20	3.5591	3.5672	3.5779	0.0052924	3.5529	3.5647	3.5819	0.0081559	-0.0099	-0.00245	0.0059	0.0056547
30	3.556	3.57	3.5829	0.0090998	3.551	3.5663	3.5779	0.010928	-0.009	-0.00373	0.0031	0.0048399
50	3.5609	3.5728	3.5841	0.006214	3.5501	3.5674	3.5869	0.012271	-0.0229	-0.00536	0.005	0.0092235

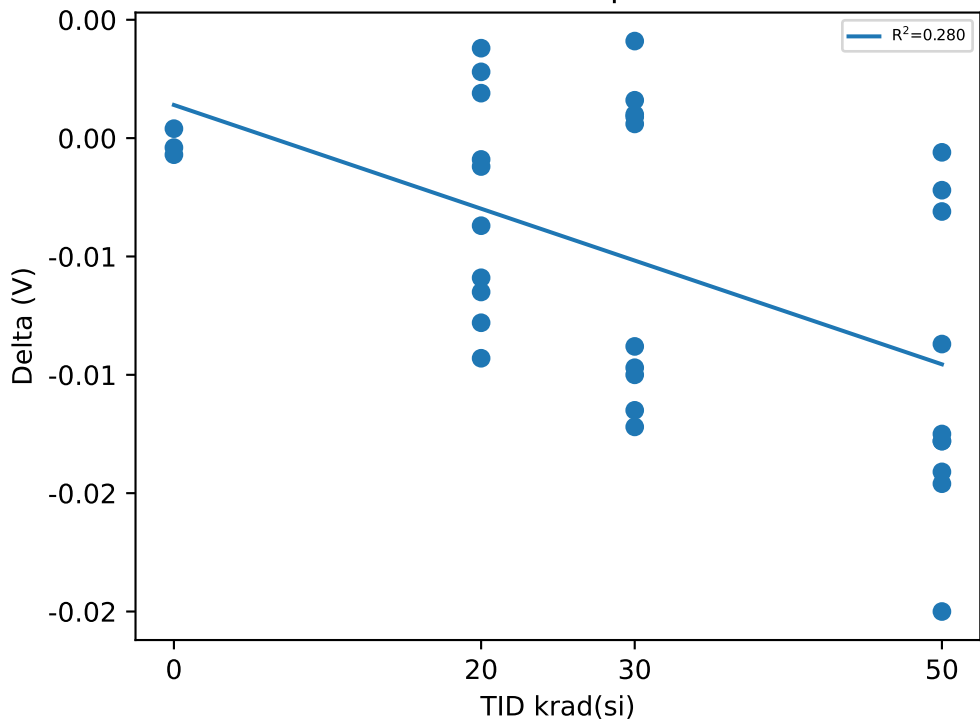
TID vs Result Stats



Test Results (Lower Limit = 3.85, Upper Limit = 4.15 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.9636	3.9543	-0.0093
22	20	HDR BIAS	3.9678	3.9613	-0.0065
23	20	HDR BIAS	3.9784	3.9706	-0.0078
24	20	HDR BIAS	3.9608	3.9571	-0.0037
25	20	HDR BIAS	3.9678	3.9619	-0.0059
26	20	HDR UNBIAS	3.9706	3.9694	-0.0012
27	20	HDR UNBIAS	3.963	3.9621	-0.0009
28	20	HDR UNBIAS	3.9541	3.956	0.0019
29	20	HDR UNBIAS	3.9547	3.9575	0.0028
30	20	HDR UNBIAS	3.9645	3.9683	0.0038
31	30	HDR BIAS	3.9781	3.9666	-0.0115
32	30	HDR BIAS	3.9594	3.9506	-0.0088
33	30	HDR BIAS	3.9477	3.9355	-0.0122
34	30	HDR BIAS	3.9816	3.9716	-0.01
35	30	HDR BIAS	3.9828	3.9731	-0.0097
36	30	HDR UNBIAS	3.968	3.9721	0.0041
37	30	HDR UNBIAS	3.9547	3.9563	0.0016
38	30	HDR UNBIAS	3.9613	3.9622	0.0009
39	30	HDR UNBIAS	3.9783	3.9793	0.001
40	30	HDR UNBIAS	3.9716	3.9722	0.0006
41	50	HDR BIAS	3.9731	3.9644	-0.0087
42	50	HDR BIAS	3.9652	3.9524	-0.0128
43	50	HDR BIAS	3.9619	3.9478	-0.0141
44	50	HDR BIAS	3.9759	3.9559	-0.02
45	50	HDR BIAS	3.9608	3.9462	-0.0146
46	50	HDR UNBIAS	3.9559	3.9553	-0.0006
47	50	HDR UNBIAS	3.9675	3.9644	-0.0031
48	50	HDR UNBIAS	3.9783	3.9658	-0.0125
49	50	HDR UNBIAS	3.9753	3.9625	-0.0128
50	50	HDR UNBIAS	3.9656	3.9634	-0.0022
71	0	CORRELATION	3.9685	3.9681	-0.0004
72	0	CORRELATION	3.9555	3.9559	0.0004
73	0	CORRELATION	3.9603	3.9596	-0.0007

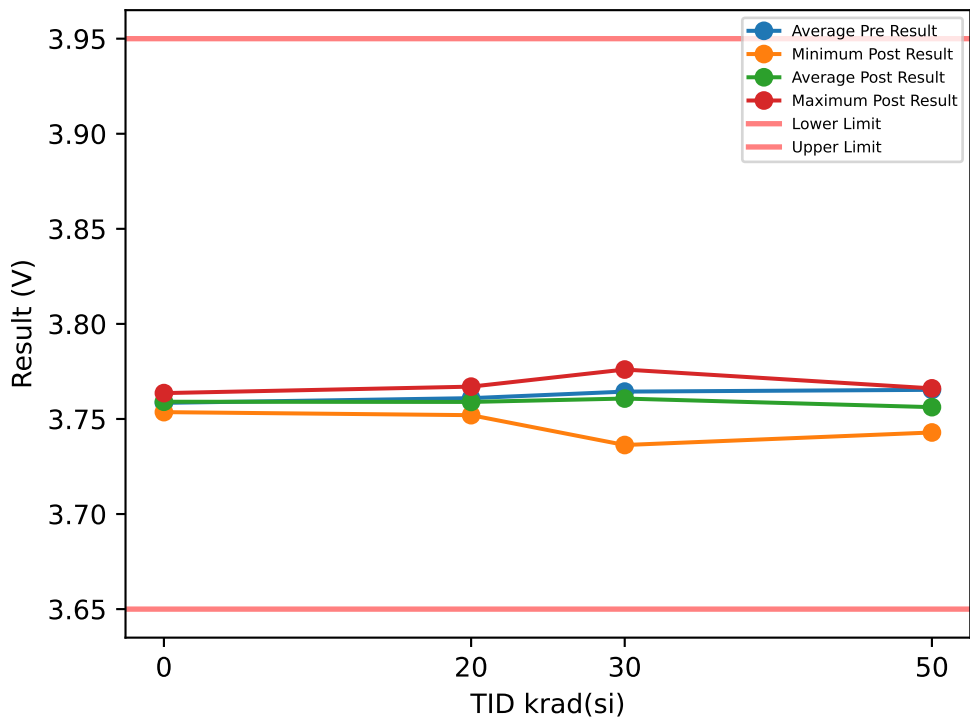
TID vs Post - Pre Exposure Delta



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	3.9555	3.9614	3.9685	0.0065737	3.9559	3.9612	3.9681	0.0062554	-0.0007	-0.00023333	0.0004	0.00056862
20	3.9541	3.9645	3.9784	0.0072506	3.9543	3.9618	3.9706	0.0058523	-0.0093	-0.00268	0.0038	0.0046475
30	3.9477	3.9684	3.9828	0.012164	3.9355	3.9639	3.9793	0.013202	-0.0122	-0.0044	0.0041	0.0065026
50	3.9559	3.9679	3.9783	0.0074318	3.9462	3.9578	3.9658	0.0072889	-0.02	-0.01014	-0.0006	0.0063088

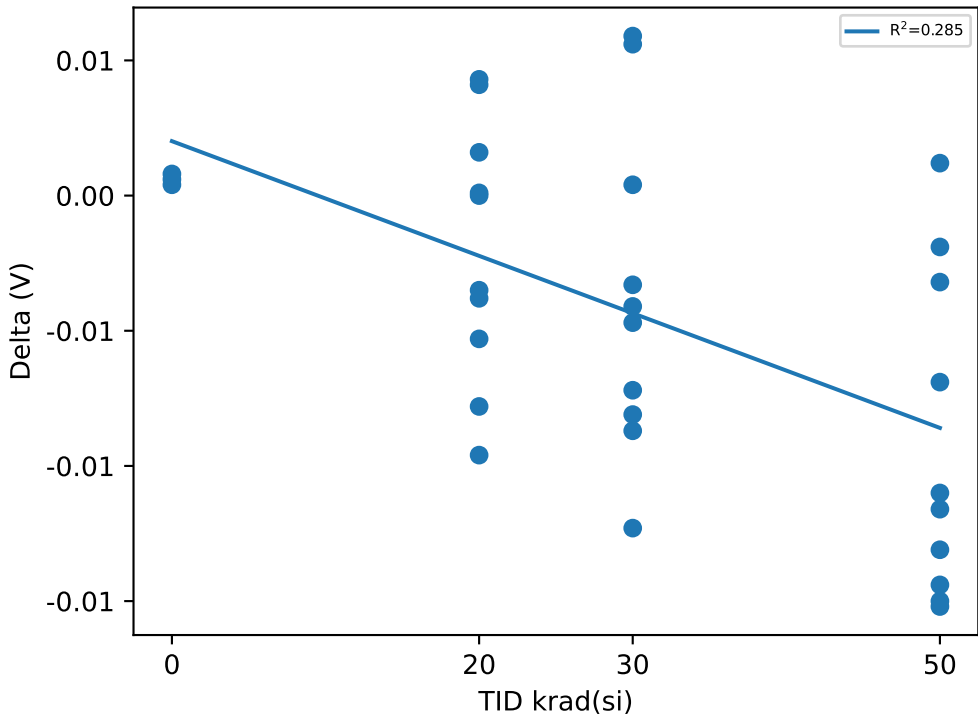
TID vs Result Stats



Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7628	3.7532	-0.0096
22	20	HDR BIAS	3.7627	3.7592	-0.0035
23	20	HDR BIAS	3.7739	3.7661	-0.0078
24	20	HDR BIAS	3.7591	3.7538	-0.0053
25	20	HDR BIAS	3.7627	3.7589	-0.0038
26	20	HDR UNBIAS	3.767	3.767	0
27	20	HDR UNBIAS	3.7578	3.7579	0.0001
28	20	HDR UNBIAS	3.7477	3.752	0.0043
29	20	HDR UNBIAS	3.7539	3.7555	0.0016
30	20	HDR UNBIAS	3.7619	3.766	0.0041
31	30	HDR BIAS	3.7749	3.7626	-0.0123
32	30	HDR BIAS	3.7558	3.7477	-0.0081
33	30	HDR BIAS	3.745	3.7363	-0.0087
34	30	HDR BIAS	3.7708	3.7661	-0.0047
35	30	HDR BIAS	3.7789	3.7717	-0.0072
36	30	HDR UNBIAS	3.7662	3.7629	-0.0033
37	30	HDR UNBIAS	3.7514	3.7573	0.0059
38	30	HDR UNBIAS	3.7611	3.757	-0.0041
39	30	HDR UNBIAS	3.7756	3.776	0.0004
40	30	HDR UNBIAS	3.7642	3.7698	0.0056
41	50	HDR BIAS	3.7699	3.763	-0.0069
42	50	HDR BIAS	3.7647	3.7497	-0.015
43	50	HDR BIAS	3.7577	3.7461	-0.0116
44	50	HDR BIAS	3.7699	3.7555	-0.0144
45	50	HDR BIAS	3.7581	3.7429	-0.0152
46	50	HDR UNBIAS	3.7558	3.7526	-0.0032
47	50	HDR UNBIAS	3.768	3.7661	-0.0019
48	50	HDR UNBIAS	3.7772	3.7641	-0.0131
49	50	HDR UNBIAS	3.7708	3.7598	-0.011
50	50	HDR UNBIAS	3.7611	3.7623	0.0012
71	0	CORRELATION	3.763	3.7636	0.0006
72	0	CORRELATION	3.7528	3.7536	0.0008
73	0	CORRELATION	3.7596	3.76	0.0004

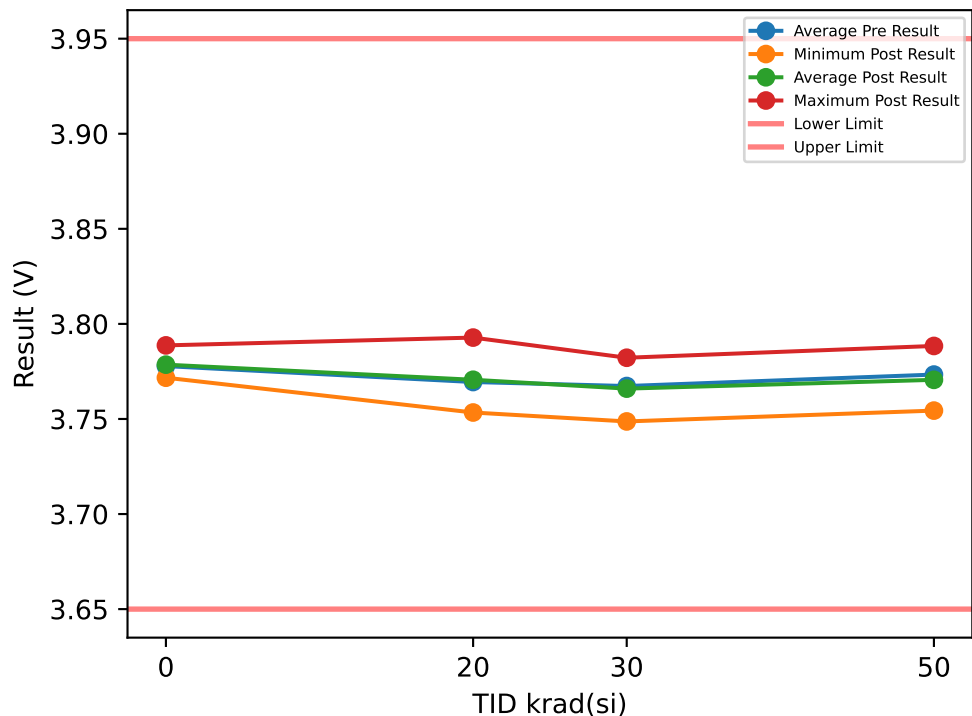
TID vs Post - Pre Exposure Delta



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	3.7528	3.7585	3.763	0.0051936	3.7536	3.7591	3.7636	0.0050649	0.0004	0.0006	0.0008	0.0002
20	3.7477	3.7609	3.7739	0.0070975	3.752	3.759	3.767	0.0056429	-0.0096	-0.00199	0.0043	0.0047848
30	3.745	3.7644	3.7789	0.0111157	3.7363	3.7607	3.776	0.011856	-0.0123	-0.00365	0.0059	0.0060307
50	3.7558	3.7653	3.7772	0.0069866	3.7429	3.7562	3.7661	0.0081064	-0.0152	-0.00911	0.0012	0.0059958

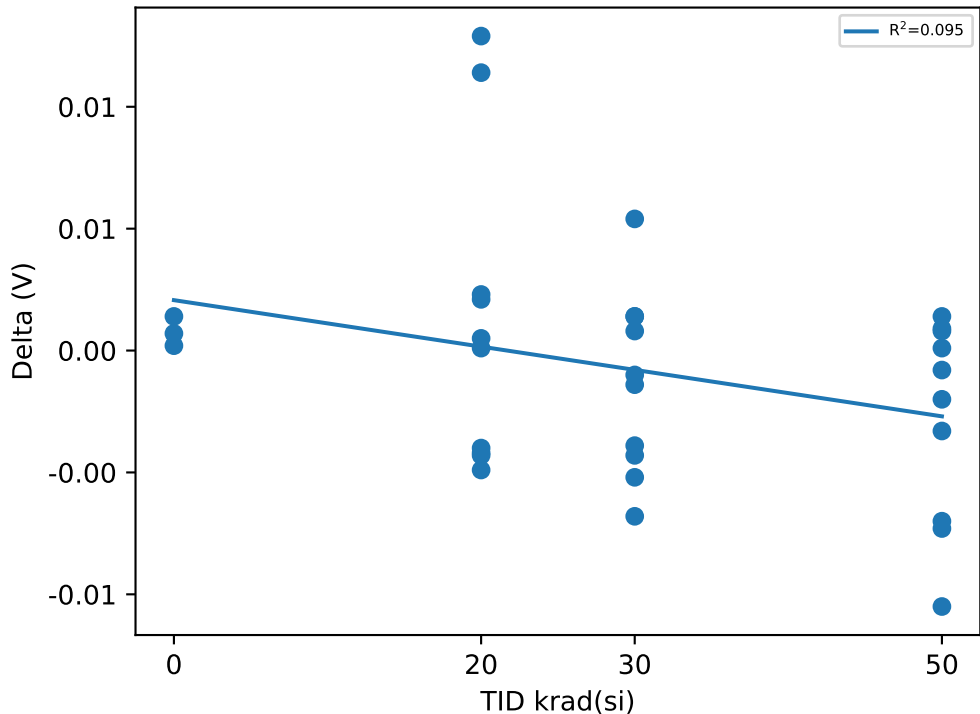
TID vs Result Stats



Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7696	3.7697	0.0001
22	20	HDR BIAS	3.7617	3.764	0.0023
23	20	HDR BIAS	3.765	3.7601	-0.0049
24	20	HDR BIAS	3.7724	3.7853	0.0129
25	20	HDR BIAS	3.7814	3.7928	0.0114
26	20	HDR UNBIAS	3.7728	3.7686	-0.0042
27	20	HDR UNBIAS	3.7724	3.7684	-0.004
28	20	HDR UNBIAS	3.7745	3.775	0.0005
29	20	HDR UNBIAS	3.7668	3.7689	0.0021
30	20	HDR UNBIAS	3.7577	3.7534	-0.0043
31	30	HDR BIAS	3.7814	3.7822	0.0008
32	30	HDR BIAS	3.7678	3.7664	-0.0014
33	30	HDR BIAS	3.753	3.7487	-0.0043
34	30	HDR BIAS	3.7658	3.7672	0.0014
35	30	HDR BIAS	3.7718	3.7708	-0.001
36	30	HDR UNBIAS	3.7608	3.7622	0.0014
37	30	HDR UNBIAS	3.757	3.7518	-0.0052
38	30	HDR UNBIAS	3.7643	3.7604	-0.0039
39	30	HDR UNBIAS	3.7677	3.7731	0.0054
40	30	HDR UNBIAS	3.7836	3.7768	-0.0068
41	50	HDR BIAS	3.7756	3.7686	-0.007
42	50	HDR BIAS	3.753	3.7544	0.0014
43	50	HDR BIAS	3.7739	3.7634	-0.0105
44	50	HDR BIAS	3.7749	3.7729	-0.002
45	50	HDR BIAS	3.7727	3.7728	0.0001
46	50	HDR UNBIAS	3.7667	3.7634	-0.0033
47	50	HDR UNBIAS	3.7846	3.7855	0.0009
48	50	HDR UNBIAS	3.7655	3.7647	-0.0008
49	50	HDR UNBIAS	3.7876	3.7884	0.0008
50	50	HDR UNBIAS	3.779	3.7717	-0.0073
71	0	CORRELATION	3.7746	3.7753	0.0007
72	0	CORRELATION	3.7715	3.7717	0.0002
73	0	CORRELATION	3.7873	3.7887	0.0014

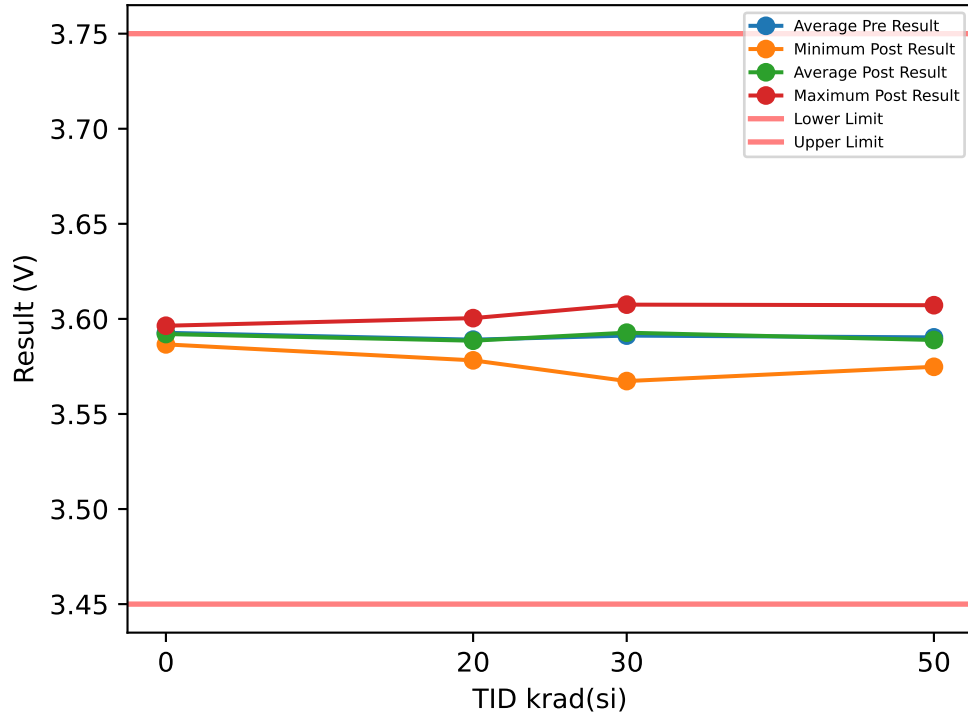
TID vs Post - Pre Exposure Delta



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	3.7715	3.7778	3.7873	0.008372	3.7717	3.7786	3.7887	0.0089584	0.0002	0.00076667	0.0014	0.00060277
20	3.7577	3.7694	3.7814	0.0068467	3.7534	3.7706	3.7928	0.011501	-0.0049	0.00119	0.0129	0.0063971
30	3.753	3.7673	3.7836	0.0097139	3.7487	3.766	3.7822	0.010545	-0.0068	-0.00136	0.0054	0.0037292
50	3.753	3.7733	3.7876	0.0099426	3.7544	3.7706	3.7884	0.010302	-0.0105	-0.00277	0.0014	0.0041468

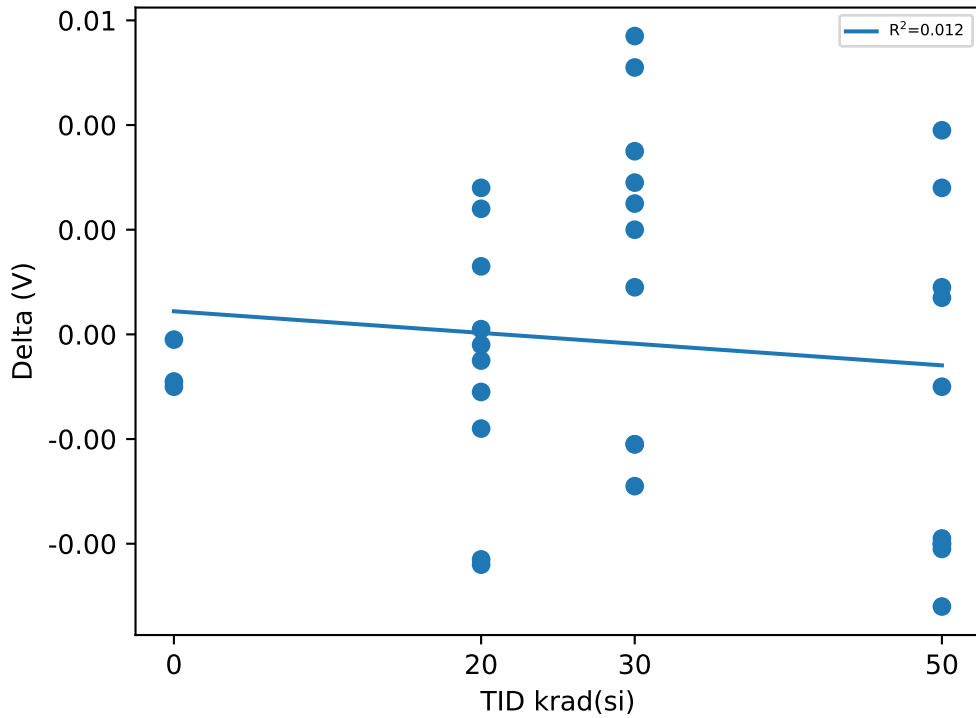
TID vs Result Stats



Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.5894	3.5889	-0.0005
22	20	HDR BIAS	3.5899	3.5881	-0.0018
23	20	HDR BIAS	3.5782	3.5806	0.0024
24	20	HDR BIAS	3.6003	3.6004	0.0001
25	20	HDR BIAS	3.5987	3.6	0.0013
26	20	HDR UNBIAS	3.5932	3.596	0.0028
27	20	HDR UNBIAS	3.5872	3.5861	-0.0011
28	20	HDR UNBIAS	3.5883	3.5881	-0.0002
29	20	HDR UNBIAS	3.5832	3.5788	-0.0044
30	20	HDR UNBIAS	3.5825	3.5782	-0.0043
31	30	HDR BIAS	3.6024	3.6075	0.0051
32	30	HDR BIAS	3.5932	3.5903	-0.0029
33	30	HDR BIAS	3.5694	3.5673	-0.0021
34	30	HDR BIAS	3.5865	3.5894	0.0029
35	30	HDR BIAS	3.5982	3.5991	0.0009
36	30	HDR UNBIAS	3.5903	3.596	0.0057
37	30	HDR UNBIAS	3.5824	3.5844	0.002
38	30	HDR UNBIAS	3.591	3.5935	0.0025
39	30	HDR UNBIAS	3.5925	3.596	0.0035
40	30	HDR UNBIAS	3.6062	3.6041	-0.0021
41	50	HDR BIAS	3.5932	3.5941	0.0009
42	50	HDR BIAS	3.5822	3.5861	0.0039
43	50	HDR BIAS	3.5837	3.5844	0.0007
44	50	HDR BIAS	3.5851	3.5841	-0.001
45	50	HDR BIAS	3.5881	3.5842	-0.0039
46	50	HDR UNBIAS	3.5802	3.5762	-0.004
47	50	HDR UNBIAS	3.6076	3.6035	-0.0041
48	50	HDR UNBIAS	3.5788	3.5748	-0.004
49	50	HDR UNBIAS	3.6124	3.6072	-0.0052
50	50	HDR UNBIAS	3.5916	3.5944	0.0028
71	0	CORRELATION	3.5941	3.5931	-0.001
72	0	CORRELATION	3.5875	3.5866	-0.0009
73	0	CORRELATION	3.5965	3.5964	-0.0001

TID vs Post - Pre Exposure Delta

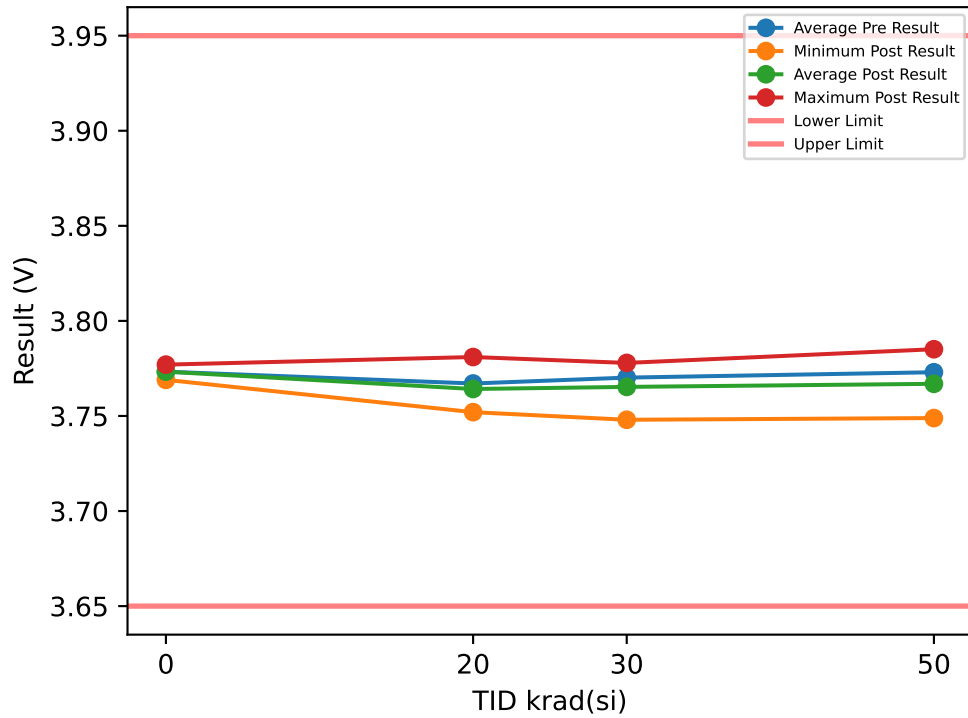


Test Statistics (V)

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	3.5875	3.5927	3.5965	0.0046605	3.5866	3.592	3.5964	0.0049863	-0.001	-0.00066667	-0.0001	0.00049329
20	3.5782	3.5891	3.6003	0.0069647	3.5782	3.5885	3.6004	0.0081577	-0.0044	-0.00057	0.0028	0.002464
30	3.5694	3.5912	3.6062	0.010439	3.5673	3.5928	3.6075	0.01127	-0.0029	0.00155	0.0057	0.0030446
50	3.5788	3.5903	3.6124	0.011417	3.5748	3.5889	3.6072	0.010743	-0.0052	-0.00139	0.0039	0.0032845

# Device Test: 17.19 UVLO|PVIN\_RISE/PVIN/4.5/4.5/0/1000/4.5/1MHz//@PVIN\_UVLO\_RISE

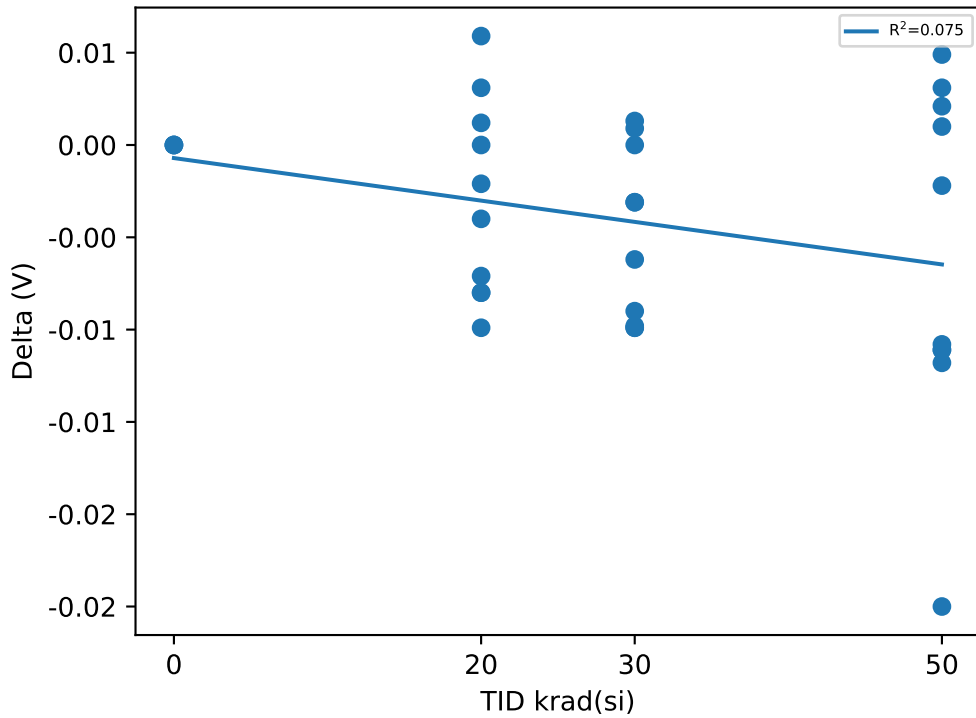
### TID vs Result Stats



### Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.769	3.7619	-0.0071
22	20	HDR BIAS	3.7699	3.7619	-0.008
23	20	HDR BIAS	3.7699	3.76	-0.0099
24	20	HDR BIAS	3.76	3.752	-0.008
25	20	HDR BIAS	3.768	3.7659	-0.0021
26	20	HDR UNBIAS	3.7659	3.7671	0.0012
27	20	HDR UNBIAS	3.7671	3.7671	0
28	20	HDR UNBIAS	3.7779	3.781	0.0031
29	20	HDR UNBIAS	3.7631	3.769	0.0059
30	20	HDR UNBIAS	3.76	3.756	-0.004
31	30	HDR BIAS	3.7841	3.7779	-0.0062
32	30	HDR BIAS	3.777	3.7671	-0.0099
33	30	HDR BIAS	3.76	3.7501	-0.0099
34	30	HDR BIAS	3.777	3.768	-0.009
35	30	HDR BIAS	3.7578	3.748	-0.0098
36	30	HDR UNBIAS	3.7659	3.7659	0
37	30	HDR UNBIAS	3.7551	3.752	-0.0031
38	30	HDR UNBIAS	3.7761	3.773	-0.0031
39	30	HDR UNBIAS	3.7739	3.7748	0.0009
40	30	HDR UNBIAS	3.7748	3.7761	0.0013
41	50	HDR BIAS	3.7789	3.7671	-0.0118
42	50	HDR BIAS	3.76	3.7489	-0.0111
43	50	HDR BIAS	3.7699	3.7591	-0.0108
44	50	HDR BIAS	3.7739	3.7489	-0.025
45	50	HDR BIAS	3.7711	3.76	-0.0111
46	50	HDR UNBIAS	3.7789	3.782	0.0031
47	50	HDR UNBIAS	3.7721	3.7699	-0.0022
48	50	HDR UNBIAS	3.7721	3.777	0.0049
49	50	HDR UNBIAS	3.7841	3.7851	0.001
50	50	HDR UNBIAS	3.769	3.7711	0.0021
71	0	CORRELATION	3.777	3.777	0
72	0	CORRELATION	3.769	3.769	0
73	0	CORRELATION	3.7739	3.7739	0

### TID vs Post - Pre Exposure Delta



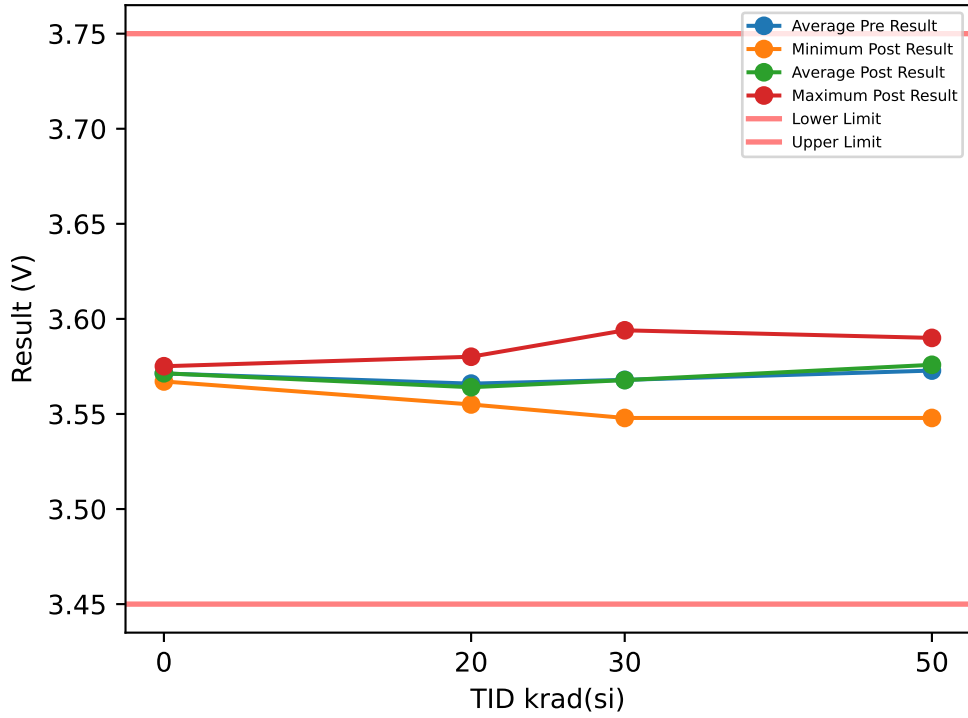
### Test Statistics (V)

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	3.769	3.7733	3.777	0.0040336	3.769	3.7733	3.777	0.0040336	0	0	0	0
20	3.76	3.7671	3.7779	0.0053229	3.752	3.7642	3.781	0.0079533	-0.0099	-0.00289	0.0059	0.0053662
30	3.7551	3.7702	3.7841	0.0097732	3.748	3.7653	3.7779	0.01127	-0.0099	-0.00488	0.0013	0.0046557
50	3.76	3.773	3.7841	0.0066121	3.7489	3.7669	3.7851	0.012668	-0.025	-0.00609	0.0049	0.0094298



Device Test: 17.2 UVLO|PVIN\_FALL/PVIN/4.5/4.5/0/1000/4.5/100kHz//@PVIN\_UVLO\_FALL

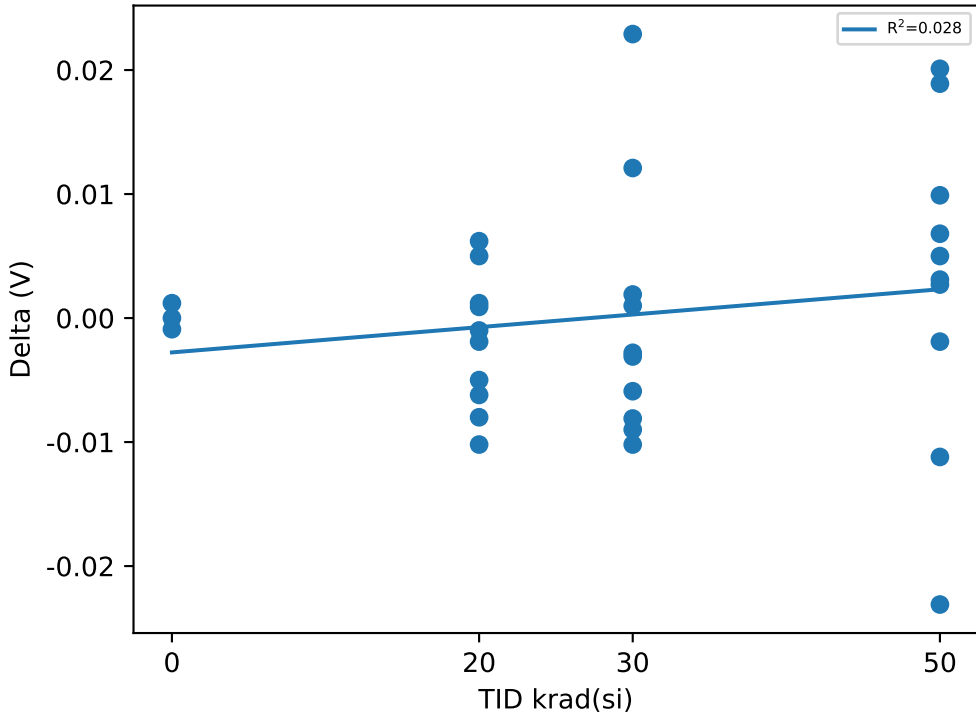
TID vs Result Stats



Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.5659	3.5609	-0.005
22	20	HDR BIAS	3.5671	3.5609	-0.0062
23	20	HDR BIAS	3.5671	3.5591	-0.008
24	20	HDR BIAS	3.572	3.5618	-0.0102
25	20	HDR BIAS	3.5659	3.5649	-0.001
26	20	HDR UNBIAS	3.564	3.5649	0.0009
27	20	HDR UNBIAS	3.5659	3.5671	0.0012
28	20	HDR UNBIAS	3.5739	3.5801	0.0062
29	20	HDR UNBIAS	3.5609	3.5659	0.005
30	20	HDR UNBIAS	3.5569	3.555	-0.0019
31	30	HDR BIAS	3.581	3.5751	-0.0059
32	30	HDR BIAS	3.5751	3.5649	-0.0102
33	30	HDR BIAS	3.5591	3.551	-0.0081
34	30	HDR BIAS	3.572	3.5841	0.0121
35	30	HDR BIAS	3.5569	3.5479	-0.009
36	30	HDR UNBIAS	3.564	3.5659	0.0019
37	30	HDR UNBIAS	3.5541	3.551	-0.0031
38	30	HDR UNBIAS	3.5739	3.5711	-0.0028
39	30	HDR UNBIAS	3.5711	3.594	0.0229
40	30	HDR UNBIAS	3.572	3.573	0.001
41	50	HDR BIAS	3.5761	3.5829	0.0068
42	50	HDR BIAS	3.5591	3.5479	-0.0112
43	50	HDR BIAS	3.568	3.5779	0.0099
44	50	HDR BIAS	3.572	3.5489	-0.0231
45	50	HDR BIAS	3.5711	3.5761	0.005
46	50	HDR UNBIAS	3.5761	3.5788	0.0027
47	50	HDR UNBIAS	3.5869	3.585	-0.0019
48	50	HDR UNBIAS	3.5699	3.59	0.0201
49	50	HDR UNBIAS	3.5819	3.585	0.0031
50	50	HDR UNBIAS	3.5671	3.586	0.0189
71	0	CORRELATION	3.5739	3.5751	0.0012
72	0	CORRELATION	3.568	3.5671	-0.0009
73	0	CORRELATION	3.572	3.572	0

TID vs Post - Pre Exposure Delta



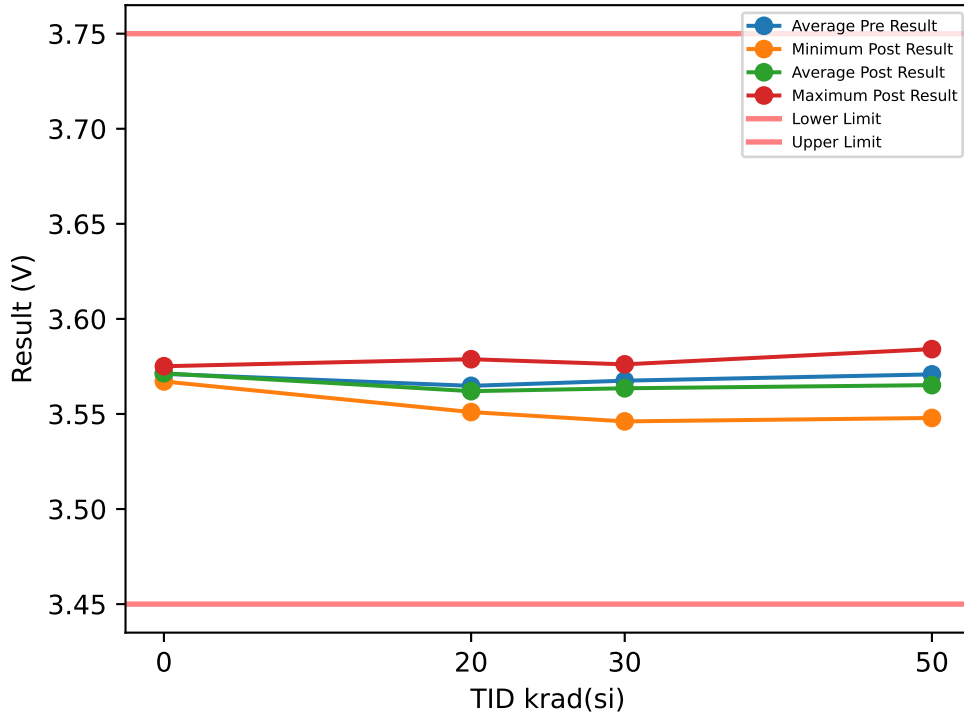
Test Statistics (V)

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	3.568	3.5713	3.5739	0.0030116	3.5671	3.5714	3.5751	0.0040336	-0.0009	0.0001	0.0012	0.0010536
20	3.5569	3.566	3.5739	0.0048724	3.555	3.5641	3.5801	0.0066923	-0.0102	-0.0019	0.0062	0.0054332
30	3.5541	3.5679	3.581	0.0088656	3.5479	3.5678	3.594	0.014966	-0.0102	-0.00012	0.0229	0.010425
50	3.5591	3.5728	3.5869	0.0078779	3.5479	3.5758	3.59	0.015059	-0.0231	0.00303	0.0201	0.012988



# Device Test: 17.20 UVLO|PVIN\_FALL/PVIN/4.5/4.5/0/1000/4.5/1MHz//@PVIN\_UVLO\_FALL

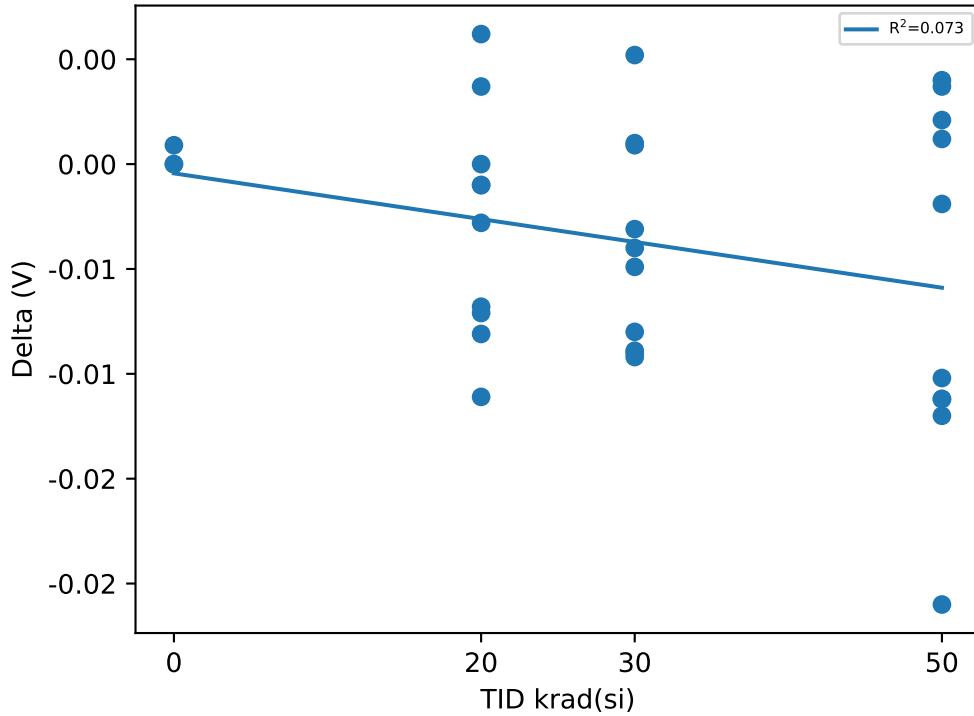
### TID vs Result Stats



### Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.5659	3.5591	-0.0068
22	20	HDR BIAS	3.5671	3.56	-0.0071
23	20	HDR BIAS	3.5671	3.556	-0.0111
24	20	HDR BIAS	3.5591	3.551	-0.0081
25	20	HDR BIAS	3.5659	3.5649	-0.001
26	20	HDR UNBIAS	3.564	3.564	0
27	20	HDR UNBIAS	3.5659	3.5649	-0.001
28	20	HDR UNBIAS	3.5751	3.5788	0.0037
29	20	HDR UNBIAS	3.5609	3.5671	0.0062
30	20	HDR UNBIAS	3.5569	3.5541	-0.0028
31	30	HDR BIAS	3.581	3.5761	-0.0049
32	30	HDR BIAS	3.5739	3.5649	-0.009
33	30	HDR BIAS	3.5581	3.5489	-0.0092
34	30	HDR BIAS	3.572	3.564	-0.008
35	30	HDR BIAS	3.555	3.5461	-0.0089
36	30	HDR UNBIAS	3.564	3.5649	0.0009
37	30	HDR UNBIAS	3.5541	3.551	-0.0031
38	30	HDR UNBIAS	3.5751	3.5711	-0.004
39	30	HDR UNBIAS	3.5699	3.5751	0.0052
40	30	HDR UNBIAS	3.572	3.573	0.001
41	50	HDR BIAS	3.5761	3.5649	-0.0112
42	50	HDR BIAS	3.5591	3.5479	-0.0112
43	50	HDR BIAS	3.5671	3.5569	-0.0102
44	50	HDR BIAS	3.5711	3.5501	-0.021
45	50	HDR BIAS	3.5711	3.5591	-0.012
46	50	HDR UNBIAS	3.5751	3.5788	0.0037
47	50	HDR UNBIAS	3.5699	3.568	-0.0019
48	50	HDR UNBIAS	3.5699	3.5739	0.004
49	50	HDR UNBIAS	3.5829	3.5841	0.0012
50	50	HDR UNBIAS	3.5659	3.568	0.0021
71	0	CORRELATION	3.5751	3.5751	0
72	0	CORRELATION	3.5671	3.5671	0
73	0	CORRELATION	3.5711	3.572	0.0009

### TID vs Post - Pre Exposure Delta

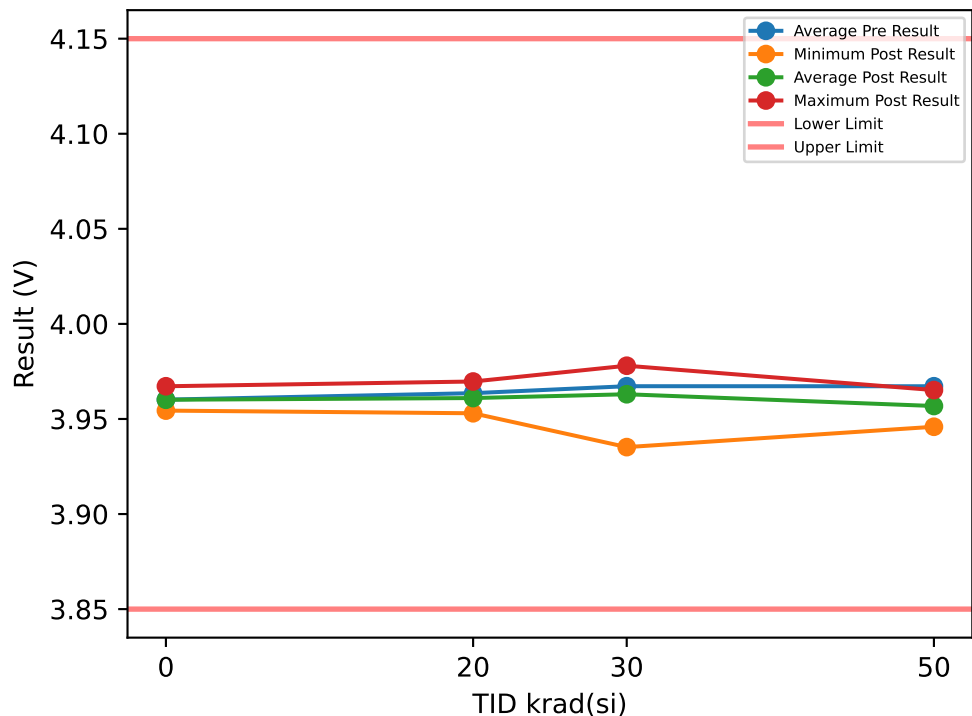


### Test Statistics (V)

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	3.5671	3.5711	3.5751	0.004	3.5671	3.5714	3.5751	0.0040336	0	0.0003	0.0009	0.00051962
20	3.5569	3.5648	3.5751	0.0050668	3.551	3.562	3.5788	0.0078944	-0.0111	-0.0028	0.0062	0.0054675
30	3.5541	3.5675	3.581	0.0092114	3.5461	3.5635	3.5761	0.011144	-0.0092	-0.004	0.0052	0.0050257
50	3.5591	3.5708	3.5829	0.0064064	3.5479	3.5652	3.5841	0.011865	-0.021	-0.00565	0.004	0.0085625

Device Test: 17.22 UVLO|VIN\_RISE/VIN/4.5/4.5/0/1000/4.5/1MHz//@VIN\_UVLO\_RISE

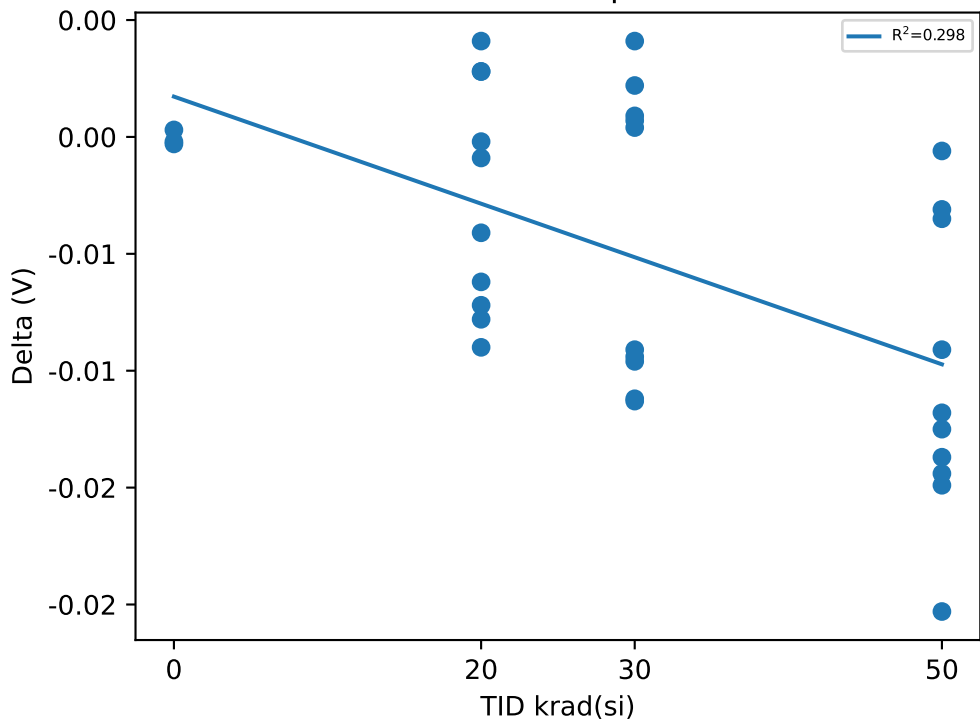
TID vs Result Stats



Test Results (Lower Limit = 3.85, Upper Limit = 4.15 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.962	3.953	-0.009
22	20	HDR BIAS	3.9675	3.9603	-0.0072
23	20	HDR BIAS	3.9775	3.9697	-0.0078
24	20	HDR BIAS	3.9599	3.9558	-0.0041
25	20	HDR BIAS	3.9675	3.9613	-0.0062
26	20	HDR UNBIAS	3.97	3.9691	-0.0009
27	20	HDR UNBIAS	3.962	3.9618	-0.0002
28	20	HDR UNBIAS	3.9525	3.9553	0.0028
29	20	HDR UNBIAS	3.9535	3.9563	0.0028
30	20	HDR UNBIAS	3.9633	3.9674	0.0041
31	30	HDR BIAS	3.9769	3.9656	-0.0113
32	30	HDR BIAS	3.9585	3.9494	-0.0091
33	30	HDR BIAS	3.9464	3.9352	-0.0112
34	30	HDR BIAS	3.9806	3.971	-0.0096
35	30	HDR BIAS	3.9819	3.9725	-0.0094
36	30	HDR UNBIAS	3.967	3.9711	0.0041
37	30	HDR UNBIAS	3.9531	3.9553	0.0022
38	30	HDR UNBIAS	3.96	3.9609	0.0009
39	30	HDR UNBIAS	3.9773	3.978	0.0007
40	30	HDR UNBIAS	3.9706	3.971	0.0004
41	50	HDR BIAS	3.9722	3.9631	-0.0091
42	50	HDR BIAS	3.9642	3.9505	-0.0137
43	50	HDR BIAS	3.9616	3.9472	-0.0144
44	50	HDR BIAS	3.9753	3.955	-0.0203
45	50	HDR BIAS	3.9608	3.9459	-0.0149
46	50	HDR UNBIAS	3.9547	3.9541	-0.0006
47	50	HDR UNBIAS	3.9672	3.9637	-0.0035
48	50	HDR UNBIAS	3.977	3.9652	-0.0118
49	50	HDR UNBIAS	3.9741	3.9616	-0.0125
50	50	HDR UNBIAS	3.965	3.9619	-0.0031
71	0	CORRELATION	3.9675	3.9672	-0.0003
72	0	CORRELATION	3.9546	3.9544	-0.0002
73	0	CORRELATION	3.9584	3.9587	0.0003

TID vs Post - Pre Exposure Delta

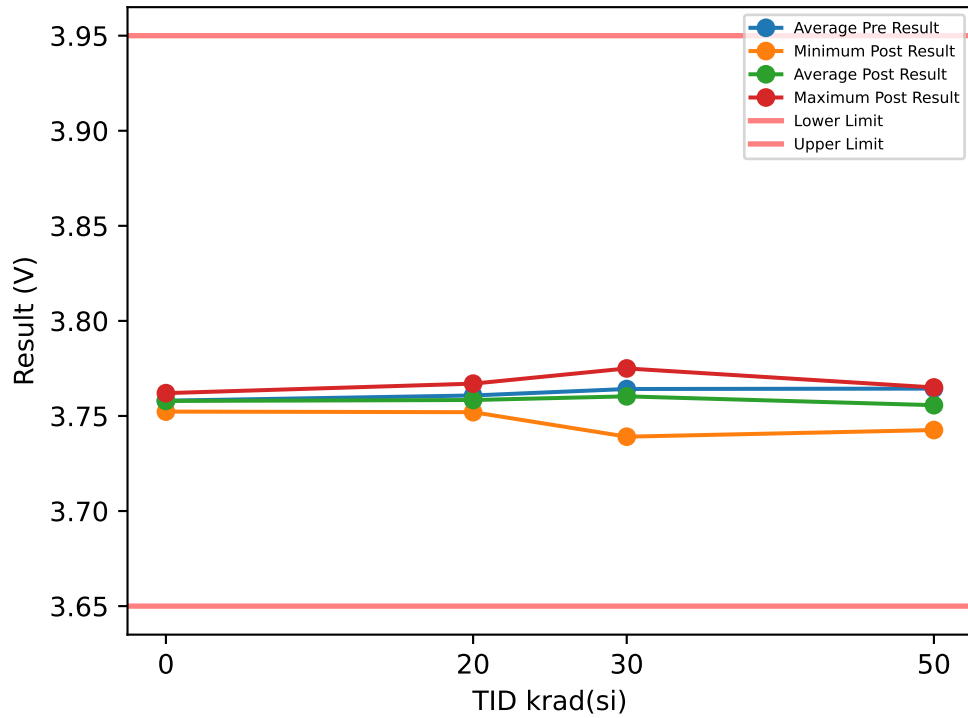


Test Statistics (V)

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	3.9546	3.9602	3.9675	0.006629	3.9544	3.9601	3.9672	0.0065138	-0.0003	-6.6667e-05	0.0003	0.00032146
20	3.9525	3.9636	3.9775	0.0075181	3.953	3.961	3.9697	0.006047	-0.009	-0.00257	0.0041	0.0049015
30	3.9464	3.9672	3.9819	0.012303	3.9352	3.963	3.978	0.013069	-0.0113	-0.00423	0.0041	0.0063302
50	3.9547	3.9672	3.977	0.0072776	3.9459	3.9568	3.9652	0.0072118	-0.0203	-0.01039	-0.0006	0.0062374

# Device Test: 17.23 UVLO|VIN\_FALL|VIN/4.5/4.5/0/1000/4.5/1MHz//@VIN\_UVLO\_FALL

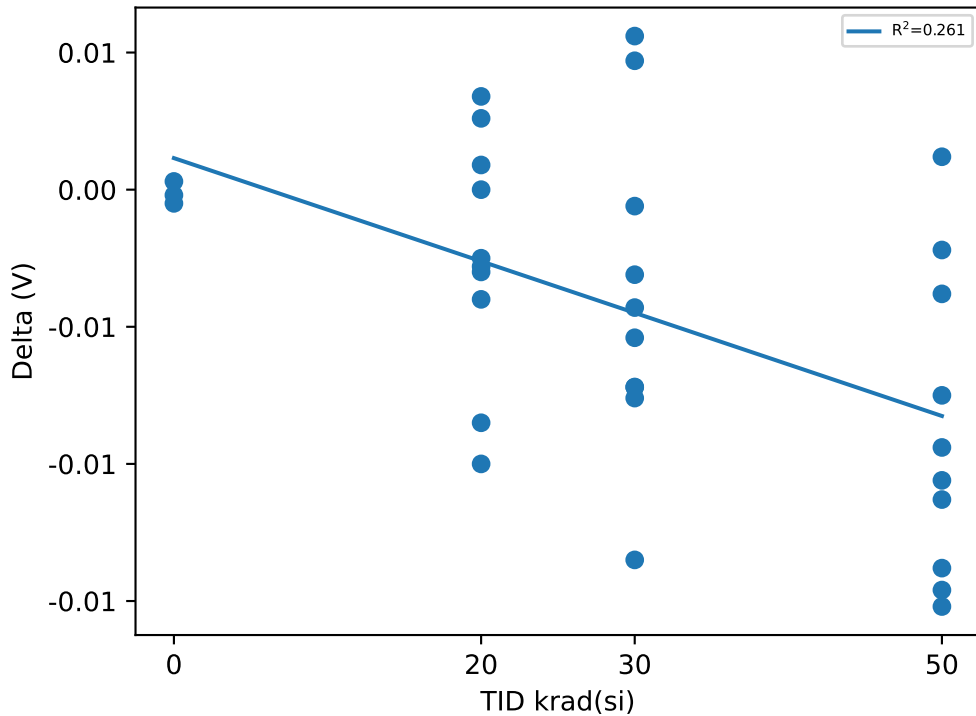
### TID vs Result Stats



### Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7622	3.7522	-0.01
22	20	HDR BIAS	3.7614	3.7589	-0.0025
23	20	HDR BIAS	3.7727	3.7642	-0.0085
24	20	HDR BIAS	3.7578	3.7538	-0.004
25	20	HDR BIAS	3.7614	3.7586	-0.0028
26	20	HDR UNBIAS	3.767	3.767	0
27	20	HDR UNBIAS	3.7609	3.7579	-0.003
28	20	HDR UNBIAS	3.7486	3.752	0.0034
29	20	HDR UNBIAS	3.7527	3.7536	0.0009
30	20	HDR UNBIAS	3.7631	3.7657	0.0026
31	30	HDR BIAS	3.7752	3.7617	-0.0135
32	30	HDR BIAS	3.7549	3.7473	-0.0076
33	30	HDR BIAS	3.7463	3.7391	-0.0072
34	30	HDR BIAS	3.7711	3.7657	-0.0054
35	30	HDR BIAS	3.7789	3.7717	-0.0072
36	30	HDR UNBIAS	3.7659	3.7616	-0.0043
37	30	HDR UNBIAS	3.7505	3.7561	0.0056
38	30	HDR UNBIAS	3.7592	3.7561	-0.0031
39	30	HDR UNBIAS	3.7756	3.775	-0.0006
40	30	HDR UNBIAS	3.7642	3.7689	0.0047
41	50	HDR BIAS	3.7689	3.7614	-0.0075
42	50	HDR BIAS	3.7637	3.7491	-0.0146
43	50	HDR BIAS	3.7574	3.7461	-0.0113
44	50	HDR BIAS	3.7689	3.7551	-0.0138
45	50	HDR BIAS	3.7578	3.7426	-0.0152
46	50	HDR UNBIAS	3.7555	3.7517	-0.0038
47	50	HDR UNBIAS	3.767	3.7648	-0.0022
48	50	HDR UNBIAS	3.7756	3.765	-0.0106
49	50	HDR UNBIAS	3.7692	3.7598	-0.0094
50	50	HDR UNBIAS	3.7599	3.7611	0.0012
71	0	CORRELATION	3.7617	3.762	0.0003
72	0	CORRELATION	3.7528	3.7523	-0.0005
73	0	CORRELATION	3.7596	3.7594	-0.0002

### TID vs Post - Pre Exposure Delta

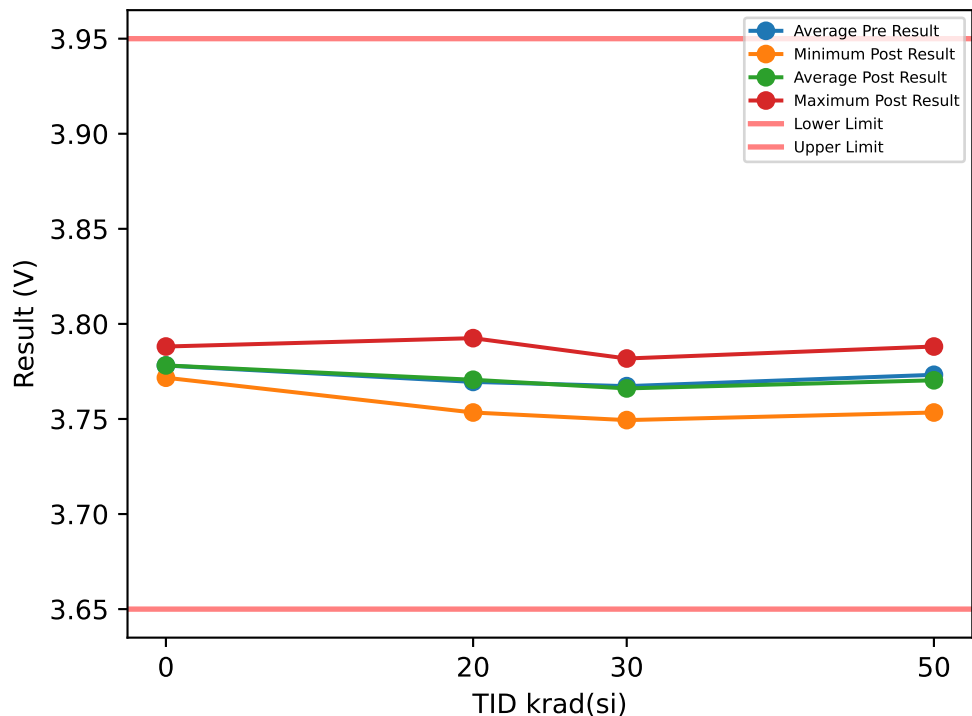


### Test Statistics (V)

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	3.7528	3.758	3.7617	0.0046522	3.7523	3.7579	3.762	0.005021	-0.0005	-0.00013333	0.0003	0.00040415
20	3.7486	3.7608	3.7727	0.0067616	3.752	3.7584	3.767	0.0056276	-0.01	-0.00239	0.0034	0.0043887
30	3.7463	3.7642	3.7789	0.01124	3.7391	3.7603	3.775	0.011088	-0.0135	-0.00386	0.0056	0.0058287
50	3.7555	3.7644	3.7756	0.006568	3.7426	3.7557	3.765	0.0079683	-0.0152	-0.00872	0.0012	0.0055741

Device Test: 17.25 UVLO|VLDO\_RISE/VLDO/4.5/4.5/0/1000/4.5/1MHz//@VLDO\_UVLO\_RISE

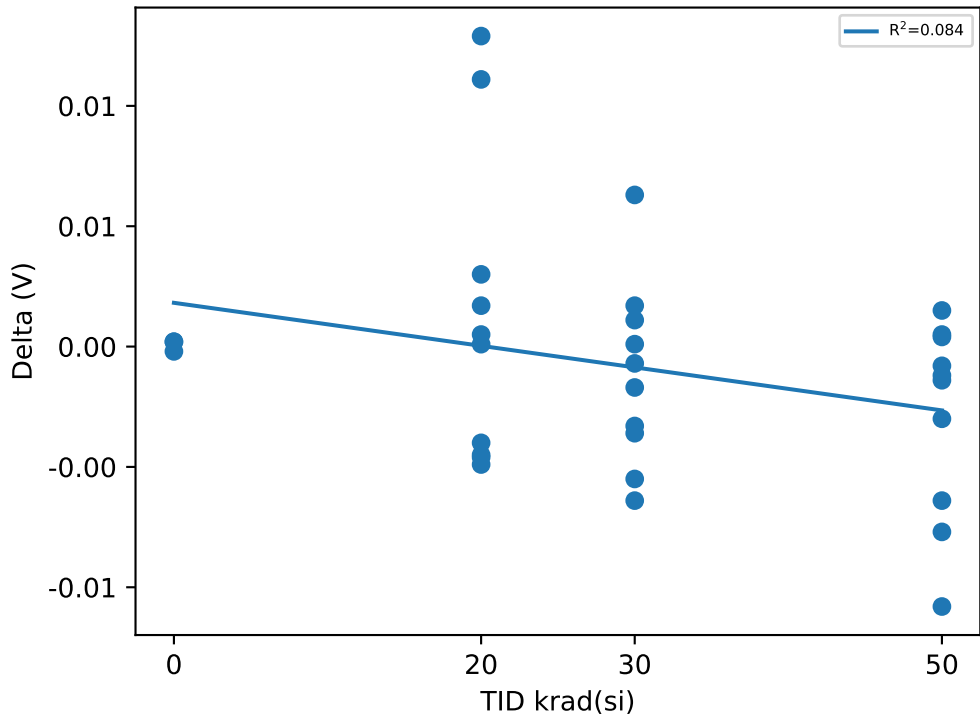
TID vs Result Stats



Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7696	3.7697	0.0001
22	20	HDR BIAS	3.7617	3.7634	0.0017
23	20	HDR BIAS	3.765	3.7601	-0.0049
24	20	HDR BIAS	3.7724	3.7853	0.0129
25	20	HDR BIAS	3.7814	3.7925	0.0111
26	20	HDR UNBIAS	3.7731	3.7686	-0.0045
27	20	HDR UNBIAS	3.7724	3.7684	-0.004
28	20	HDR UNBIAS	3.7745	3.775	0.0005
29	20	HDR UNBIAS	3.7668	3.7698	0.003
30	20	HDR UNBIAS	3.758	3.7534	-0.0046
31	30	HDR BIAS	3.7817	3.7818	0.0001
32	30	HDR BIAS	3.7678	3.7661	-0.0017
33	30	HDR BIAS	3.7527	3.7494	-0.0033
34	30	HDR BIAS	3.7661	3.7672	0.0011
35	30	HDR BIAS	3.7715	3.7708	-0.0007
36	30	HDR UNBIAS	3.7608	3.7625	0.0017
37	30	HDR UNBIAS	3.7567	3.7512	-0.0055
38	30	HDR UNBIAS	3.764	3.7604	-0.0036
39	30	HDR UNBIAS	3.7677	3.774	0.0063
40	30	HDR UNBIAS	3.7836	3.7772	-0.0064
41	50	HDR BIAS	3.7756	3.7679	-0.0077
42	50	HDR BIAS	3.753	3.7534	0.0004
43	50	HDR BIAS	3.7742	3.7634	-0.0108
44	50	HDR BIAS	3.7743	3.7729	-0.0014
45	50	HDR BIAS	3.7733	3.7721	-0.0012
46	50	HDR UNBIAS	3.7667	3.7637	-0.003
47	50	HDR UNBIAS	3.784	3.7855	0.0015
48	50	HDR UNBIAS	3.7655	3.7647	-0.0008
49	50	HDR UNBIAS	3.7876	3.7881	0.0005
50	50	HDR UNBIAS	3.7781	3.7717	-0.0064
71	0	CORRELATION	3.7749	3.7747	-0.0002
72	0	CORRELATION	3.7715	3.7717	0.0002
73	0	CORRELATION	3.7879	3.7881	0.0002

TID vs Post - Pre Exposure Delta

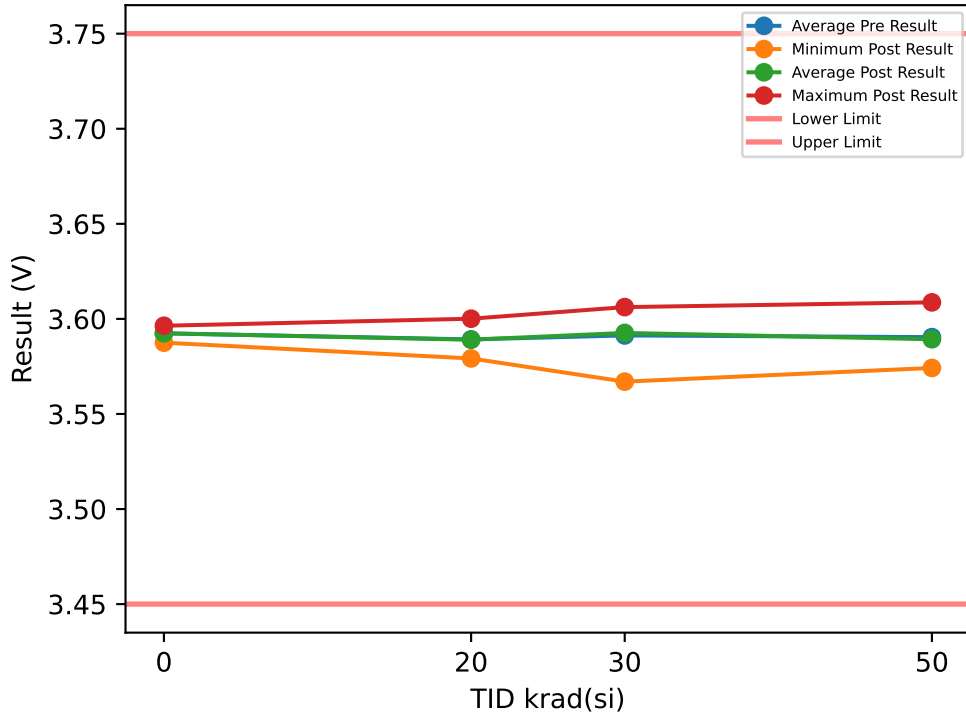


Test Statistics (V)

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	3.7715	3.7781	3.7879	0.0086556	3.7717	3.7782	3.7881	0.0087323	-0.0002	6.6667e-05	0.0002	0.00023094
20	3.758	3.7695	3.7814	0.0068071	3.7534	3.7706	3.7925	0.011466	-0.0049	0.00113	0.0129	0.0064154
30	3.7527	3.7673	3.7836	0.0098386	3.7494	3.7661	3.7818	0.01055	-0.0064	-0.0012	0.0063	0.0037689
50	3.753	3.7732	3.7876	0.0098068	3.7534	3.7703	3.7881	0.010402	-0.0108	-0.00289	0.0015	0.0040698

Device Test: 17.26 UVLO|VLDO\_FALL/VLDO/4.5/4.5/0/1000/4.5/1MHz//@VLDO\_UVLO\_FALL

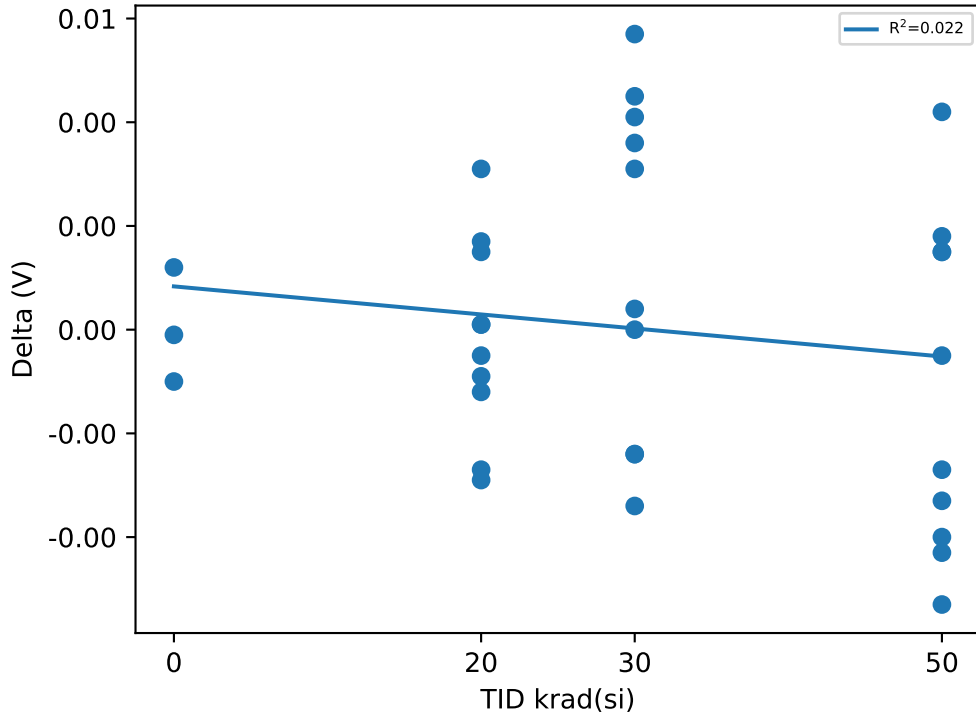
TID vs Result Stats



Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.5894	3.5889	-0.0005
22	20	HDR BIAS	3.5896	3.5897	0.0001
23	20	HDR BIAS	3.5788	3.5803	0.0015
24	20	HDR BIAS	3.6	3.6001	0.0001
25	20	HDR BIAS	3.5983	3.6	0.0017
26	20	HDR UNBIAS	3.5929	3.596	0.0031
27	20	HDR UNBIAS	3.5885	3.5876	-0.0009
28	20	HDR UNBIAS	3.5896	3.5884	-0.0012
29	20	HDR UNBIAS	3.5832	3.5803	-0.0029
30	20	HDR UNBIAS	3.5819	3.5792	-0.0027
31	30	HDR BIAS	3.6021	3.6062	0.0041
32	30	HDR BIAS	3.5947	3.5913	-0.0034
33	30	HDR BIAS	3.5694	3.567	-0.0024
34	30	HDR BIAS	3.5855	3.5891	0.0036
35	30	HDR BIAS	3.5988	3.5988	0
36	30	HDR UNBIAS	3.5903	3.596	0.0057
37	30	HDR UNBIAS	3.5837	3.5841	0.0004
38	30	HDR UNBIAS	3.5901	3.5932	0.0031
39	30	HDR UNBIAS	3.5919	3.5964	0.0045
40	30	HDR UNBIAS	3.6065	3.6041	-0.0024
41	50	HDR BIAS	3.5932	3.5947	0.0015
42	50	HDR BIAS	3.5822	3.5864	0.0042
43	50	HDR BIAS	3.5846	3.5841	-0.0005
44	50	HDR BIAS	3.5838	3.5853	0.0015
45	50	HDR BIAS	3.5881	3.5854	-0.0027
46	50	HDR UNBIAS	3.5799	3.5766	-0.0033
47	50	HDR UNBIAS	3.6085	3.6032	-0.0053
48	50	HDR UNBIAS	3.5785	3.5742	-0.0043
49	50	HDR UNBIAS	3.6127	3.6087	-0.004
50	50	HDR UNBIAS	3.5926	3.5944	0.0018
71	0	CORRELATION	3.5935	3.5934	-0.0001
72	0	CORRELATION	3.5863	3.5875	0.0012
73	0	CORRELATION	3.5974	3.5964	-0.001

TID vs Post - Pre Exposure Delta

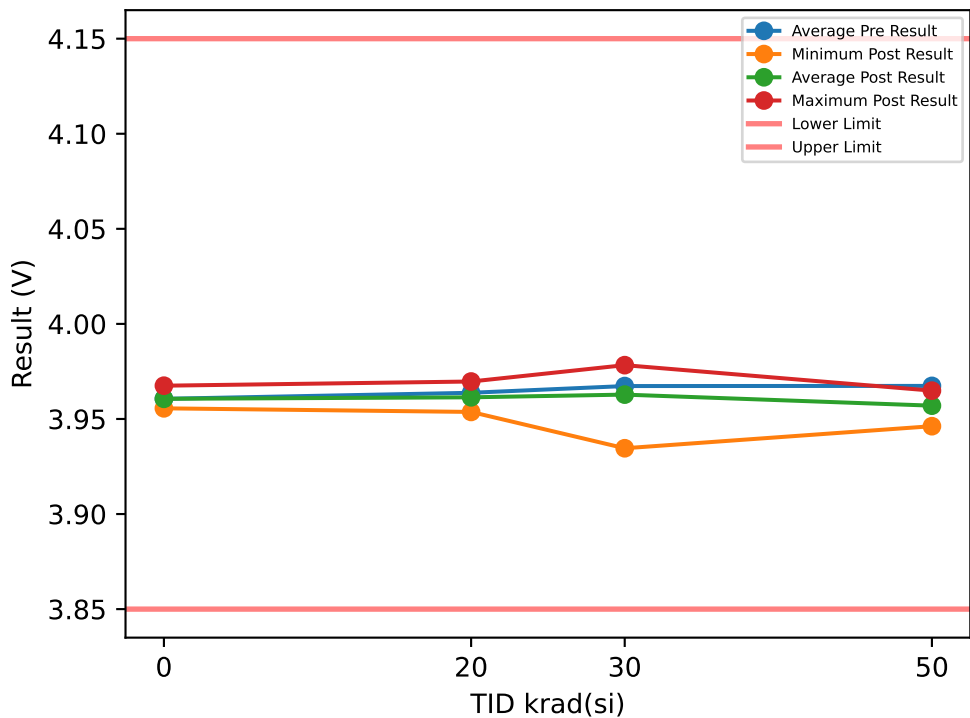


Test Statistics (V)

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	3.5863	3.5924	3.5974	0.0056312	3.5875	3.5924	3.5964	0.0045281	-0.001	3.3333e-05	0.0012	0.001106
20	3.5788	3.5892	3.6	0.0067613	3.5792	3.5891	3.6001	0.0077705	-0.0029	-0.00017	0.0031	0.0019056
30	3.5694	3.5913	3.6065	0.010484	3.567	3.5926	3.6062	0.011173	-0.0034	0.00132	0.0057	0.0032988
50	3.5785	3.5904	3.6127	0.011734	3.5742	3.5893	3.6087	0.010958	-0.0053	-0.00111	0.0042	0.003233

Device Test: 17.4 UVLO|VIN\_RISE/VIN/4.5/4.5/0/1000/4.5/100kHz//@VIN\_UVLO\_RISE

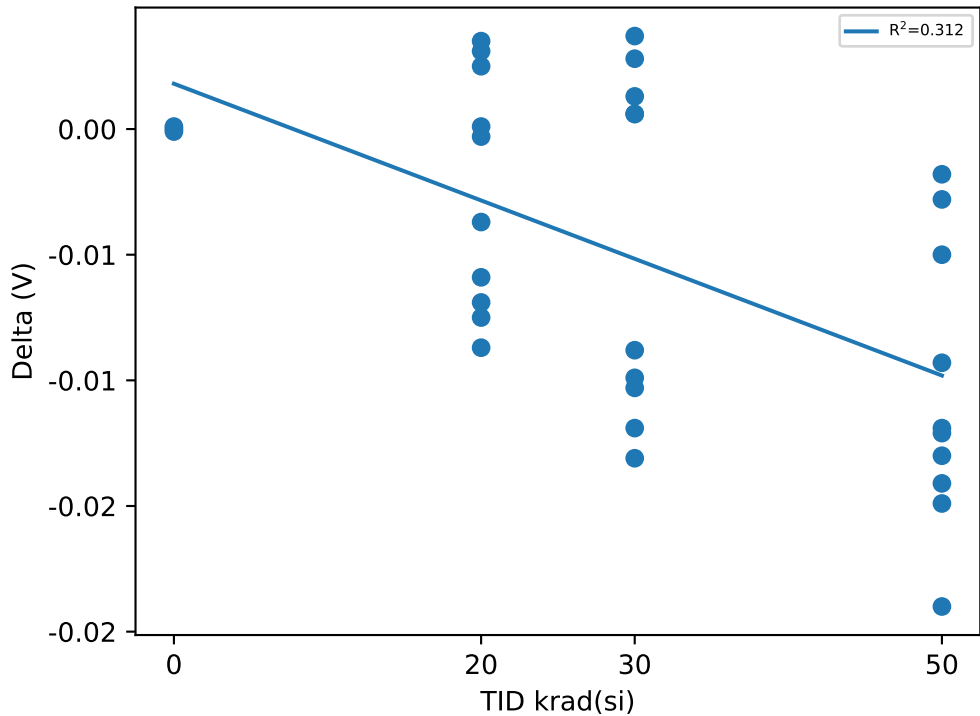
TID vs Result Stats



Test Results (Lower Limit = 3.85, Upper Limit = 4.15 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.9624	3.9537	-0.0087
22	20	HDR BIAS	3.9675	3.9606	-0.0069
23	20	HDR BIAS	3.9772	3.9697	-0.0075
24	20	HDR BIAS	3.9602	3.9565	-0.0037
25	20	HDR BIAS	3.9678	3.9619	-0.0059
26	20	HDR UNBIAS	3.9697	3.9694	-0.0003
27	20	HDR UNBIAS	3.962	3.9621	0.0001
28	20	HDR UNBIAS	3.9535	3.956	0.0025
29	20	HDR UNBIAS	3.9535	3.9566	0.0031
30	20	HDR UNBIAS	3.9639	3.9674	0.0035
31	30	HDR BIAS	3.9775	3.9656	-0.0119
32	30	HDR BIAS	3.9585	3.9497	-0.0088
33	30	HDR BIAS	3.9477	3.9346	-0.0131
34	30	HDR BIAS	3.9809	3.971	-0.0099
35	30	HDR BIAS	3.9825	3.9722	-0.0103
36	30	HDR UNBIAS	3.9674	3.9711	0.0037
37	30	HDR UNBIAS	3.9531	3.9544	0.0013
38	30	HDR UNBIAS	3.96	3.9606	0.0006
39	30	HDR UNBIAS	3.9777	3.9783	0.0006
40	30	HDR UNBIAS	3.9678	3.9706	0.0028
41	50	HDR BIAS	3.9734	3.9641	-0.0093
42	50	HDR BIAS	3.9645	3.9515	-0.013
43	50	HDR BIAS	3.9616	3.9475	-0.0141
44	50	HDR BIAS	3.9753	3.9563	-0.019
45	50	HDR BIAS	3.9611	3.9462	-0.0149
46	50	HDR UNBIAS	3.955	3.9532	-0.0018
47	50	HDR UNBIAS	3.9672	3.9622	-0.005
48	50	HDR UNBIAS	3.977	3.9649	-0.0121
49	50	HDR UNBIAS	3.9744	3.9625	-0.0119
50	50	HDR UNBIAS	3.9644	3.9616	-0.0028
71	0	CORRELATION	3.9675	3.9675	0
72	0	CORRELATION	3.9555	3.9556	0.0001
73	0	CORRELATION	3.9588	3.9587	-0.0001

TID vs Post - Pre Exposure Delta



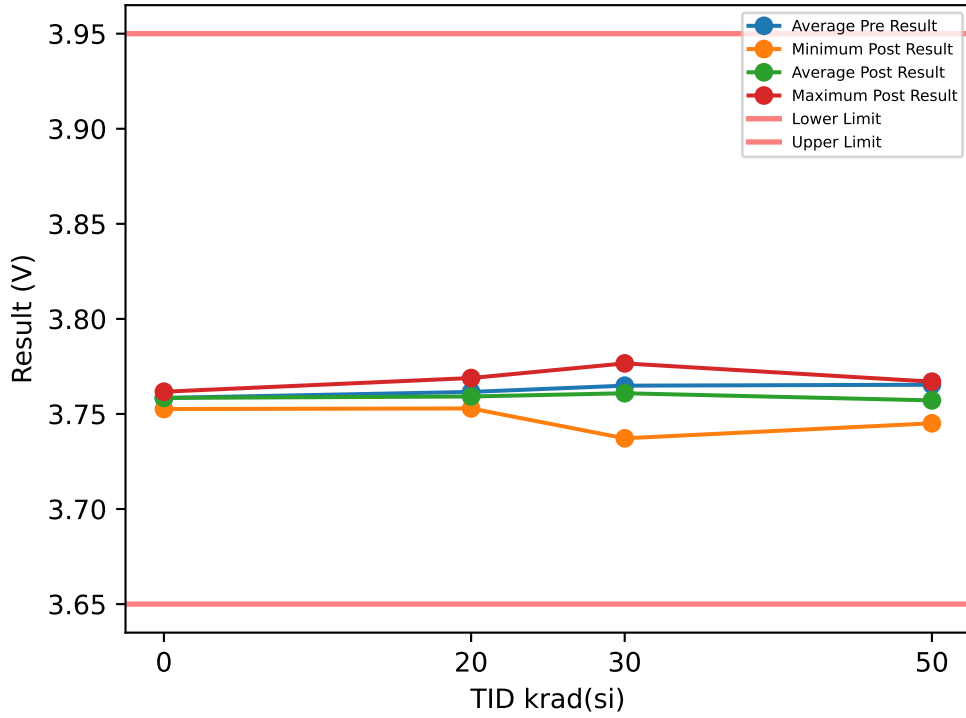
Test Statistics (V)

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	3.9555	3.9606	3.9675	0.0061992	3.9556	3.9606	3.9675	0.0061733	-0.0001	0	0.0001	0.0001
20	3.9535	3.9638	3.9772	0.0072602	3.9537	3.9614	3.9697	0.0058288	-0.0087	-0.00238	0.0035	0.0047095
30	3.9477	3.9673	3.9825	0.012225	3.9346	3.9628	3.9783	0.013232	-0.0131	-0.0045	0.0037	0.0068003
50	3.955	3.9674	3.977	0.0073342	3.9462	3.957	3.9649	0.0070185	-0.019	-0.01039	-0.0018	0.0055965



# Device Test: 17.5 UVLO|VIN\_FALL|VIN/4.5/4.5/0/1000/4.5/100kHz//@VIN\_UVLO\_FALL

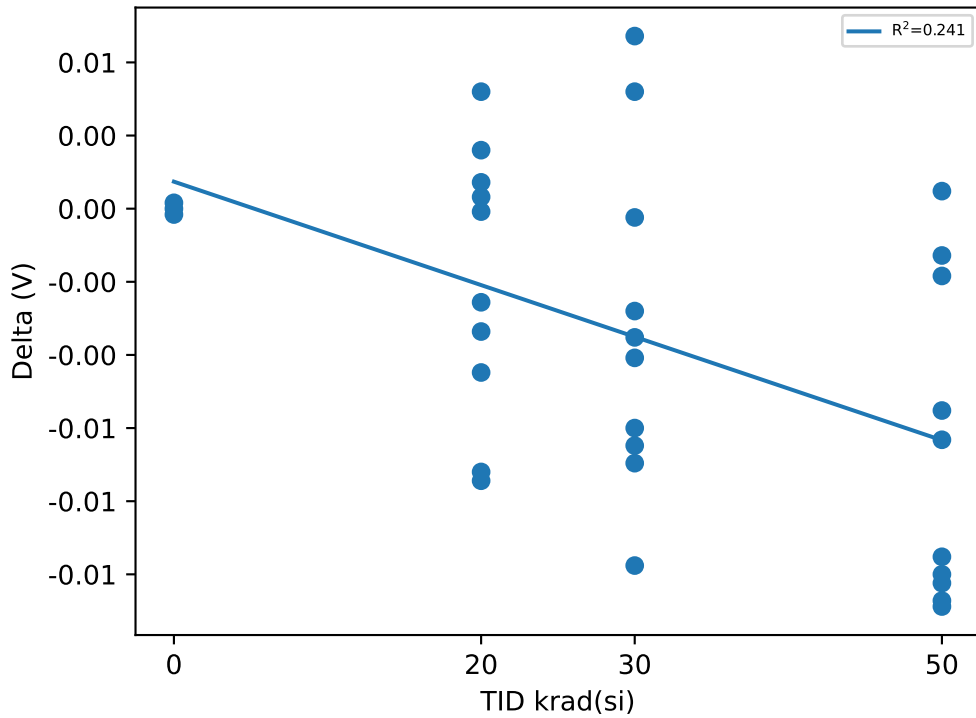
### TID vs Result Stats



### Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7631	3.7538	-0.0093
22	20	HDR BIAS	3.763	3.7598	-0.0032
23	20	HDR BIAS	3.7748	3.7658	-0.009
24	20	HDR BIAS	3.76	3.7544	-0.0056
25	20	HDR BIAS	3.7624	3.7582	-0.0042
26	20	HDR UNBIAS	3.768	3.7689	0.0009
27	20	HDR UNBIAS	3.7575	3.7579	0.0004
28	20	HDR UNBIAS	3.7489	3.7529	0.004
29	20	HDR UNBIAS	3.7546	3.7545	-0.0001
30	20	HDR UNBIAS	3.7637	3.7657	0.002
31	30	HDR BIAS	3.7739	3.7617	-0.0122
32	30	HDR BIAS	3.7561	3.7486	-0.0075
33	30	HDR BIAS	3.7459	3.7372	-0.0087
34	30	HDR BIAS	3.7708	3.7657	-0.0051
35	30	HDR BIAS	3.7798	3.7717	-0.0081
36	30	HDR UNBIAS	3.7669	3.7625	-0.0044
37	30	HDR UNBIAS	3.7511	3.757	0.0059
38	30	HDR UNBIAS	3.7608	3.7573	-0.0035
39	30	HDR UNBIAS	3.7769	3.7766	-0.0003
40	30	HDR UNBIAS	3.7667	3.7707	0.004
41	50	HDR BIAS	3.7689	3.762	-0.0069
42	50	HDR BIAS	3.7644	3.751	-0.0134
43	50	HDR BIAS	3.7589	3.747	-0.0119
44	50	HDR BIAS	3.7695	3.757	-0.0125
45	50	HDR BIAS	3.7587	3.7451	-0.0136
46	50	HDR UNBIAS	3.7549	3.7526	-0.0023
47	50	HDR UNBIAS	3.7686	3.767	-0.0016
48	50	HDR UNBIAS	3.7769	3.7641	-0.0128
49	50	HDR UNBIAS	3.7699	3.762	-0.0079
50	50	HDR UNBIAS	3.763	3.7636	0.0006
71	0	CORRELATION	3.7617	3.7617	0
72	0	CORRELATION	3.7528	3.7526	-0.0002
73	0	CORRELATION	3.7608	3.761	0.0002

### TID vs Post - Pre Exposure Delta



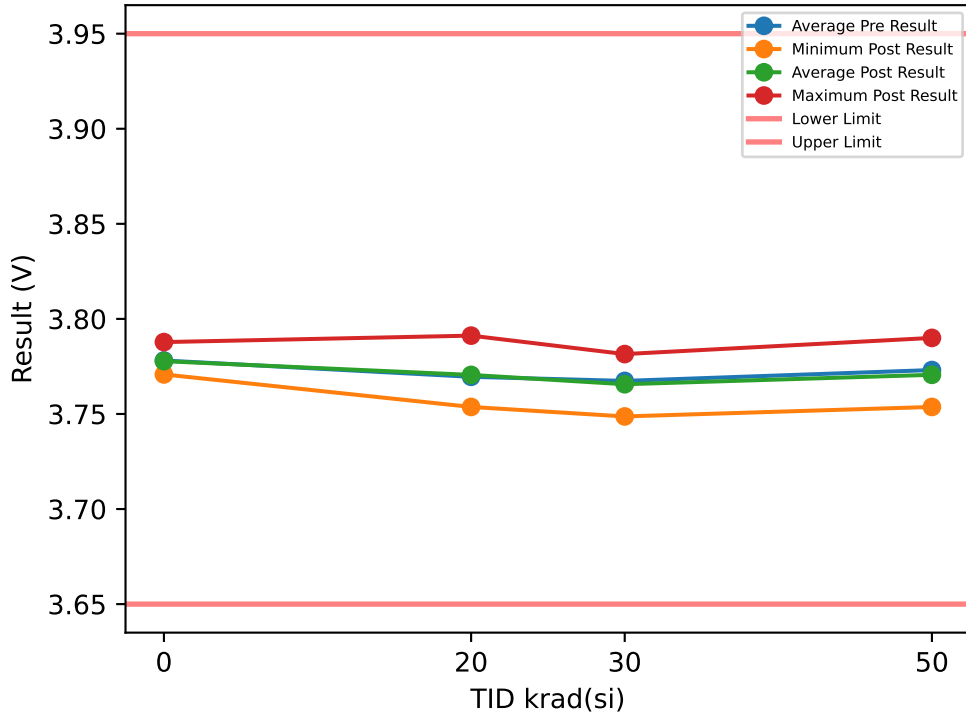
### Test Statistics (V)

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	3.7528	3.7584	3.7617	0.0048993	3.7526	3.7584	3.7617	0.0050639	-0.0002	0	0.0002	0.0002
20	3.7489	3.7616	3.7748	0.0071034	3.7529	3.7592	3.7689	0.0057439	-0.0093	-0.00241	0.004	0.0045902
30	3.7459	3.7649	3.7798	0.011229	3.7372	3.7609	3.7766	0.011674	-0.0122	-0.00399	0.0059	0.0057321
50	3.7549	3.7654	3.7769	0.0066328	3.7451	3.7571	3.767	0.0077513	-0.0136	-0.00823	0.0006	0.0054479



Device Test: 17.7 UVLO|VLDO\_RISE/VLDO/4.5/4.5/0/1000/4.5/100kHz//@VLDO\_UVLO\_RISE

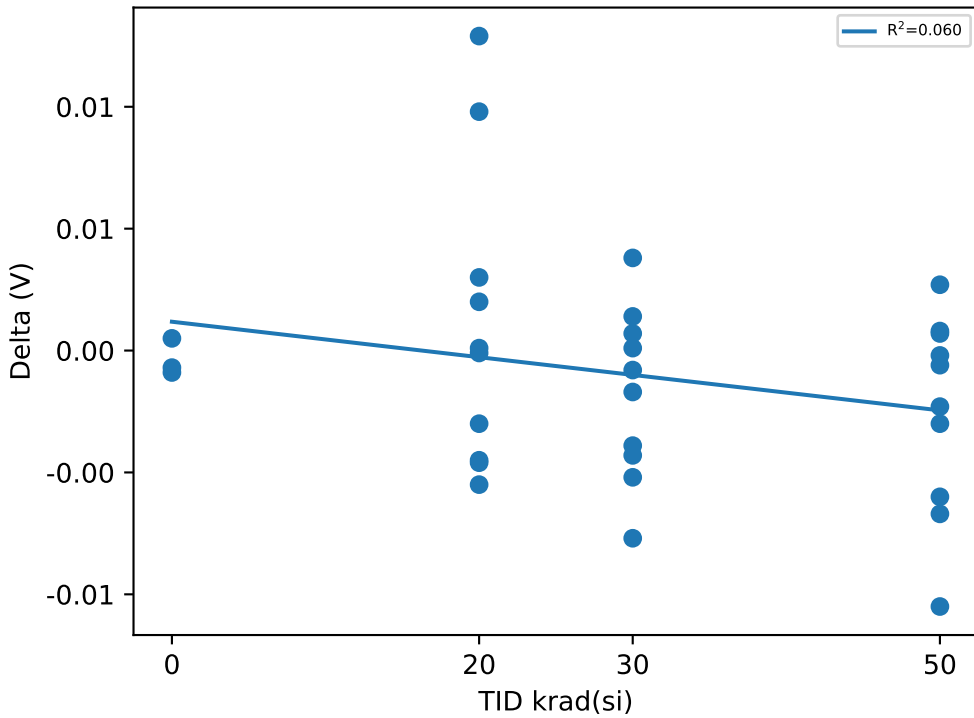
TID vs Result Stats



Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7696	3.7697	0.0001
22	20	HDR BIAS	3.7617	3.7637	0.002
23	20	HDR BIAS	3.765	3.7595	-0.0055
24	20	HDR BIAS	3.7724	3.7853	0.0129
25	20	HDR BIAS	3.7814	3.7912	0.0098
26	20	HDR UNBIAS	3.7724	3.7679	-0.0045
27	20	HDR UNBIAS	3.773	3.77	-0.003
28	20	HDR UNBIAS	3.7748	3.7747	-0.0001
29	20	HDR UNBIAS	3.7668	3.7698	0.003
30	20	HDR UNBIAS	3.7583	3.7537	-0.0046
31	30	HDR BIAS	3.7814	3.7815	0.0001
32	30	HDR BIAS	3.7678	3.7661	-0.0017
33	30	HDR BIAS	3.753	3.7487	-0.0043
34	30	HDR BIAS	3.7655	3.7662	0.0007
35	30	HDR BIAS	3.7709	3.7701	-0.0008
36	30	HDR UNBIAS	3.7608	3.7622	0.0014
37	30	HDR UNBIAS	3.7567	3.7515	-0.0052
38	30	HDR UNBIAS	3.7637	3.7598	-0.0039
39	30	HDR UNBIAS	3.7696	3.7734	0.0038
40	30	HDR UNBIAS	3.7845	3.7768	-0.0077
41	50	HDR BIAS	3.7749	3.7689	-0.006
42	50	HDR BIAS	3.753	3.7537	0.0007
43	50	HDR BIAS	3.7739	3.7634	-0.0105
44	50	HDR BIAS	3.7749	3.7726	-0.0023
45	50	HDR BIAS	3.7727	3.7721	-0.0006
46	50	HDR UNBIAS	3.7667	3.7637	-0.003
47	50	HDR UNBIAS	3.7843	3.7851	0.0008
48	50	HDR UNBIAS	3.7649	3.7647	-0.0002
49	50	HDR UNBIAS	3.7873	3.79	0.0027
50	50	HDR UNBIAS	3.7784	3.7717	-0.0067
71	0	CORRELATION	3.7756	3.7747	-0.0009
72	0	CORRELATION	3.7715	3.7708	-0.0007
73	0	CORRELATION	3.7873	3.7878	0.0005

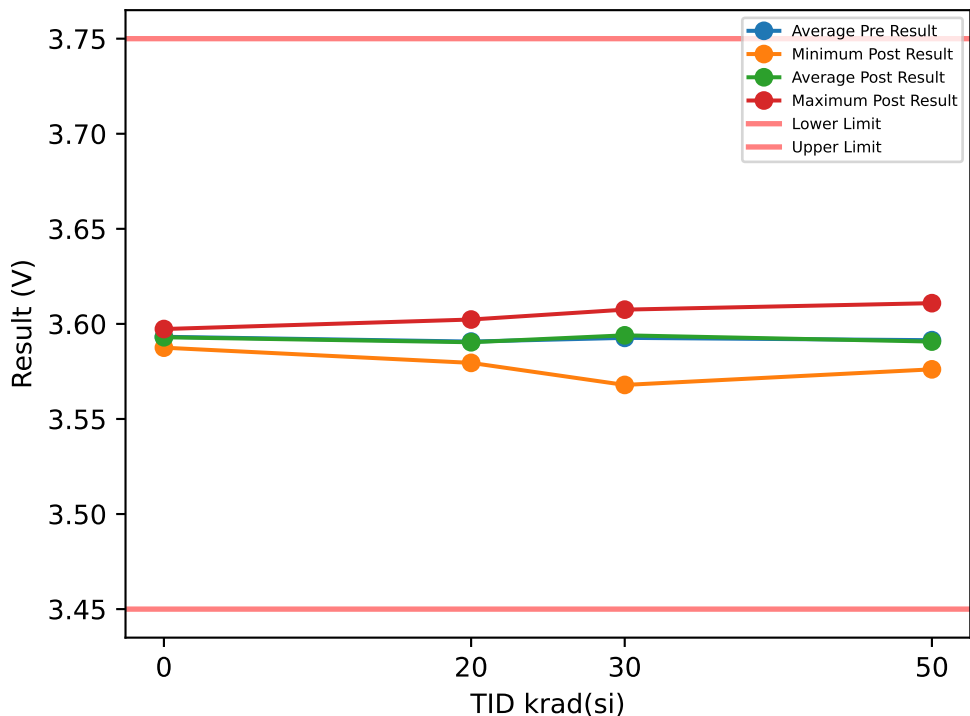
TID vs Post - Pre Exposure Delta



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	3.7715	3.7781	3.7873	0.008199	3.7708	3.7778	3.7878	0.0089052	-0.0009	-0.00036667	0.0005	0.00075719
20	3.7583	3.7695	3.7814	0.0067707	3.7537	3.7706	3.7912	0.011169	-0.0055	0.00101	0.0129	0.0061997
30	3.753	3.7674	3.7845	0.0099352	3.7487	3.7656	3.7815	0.010486	-0.0077	-0.00176	0.0038	0.0034878
50	3.753	3.7731	3.7873	0.0098582	3.7537	3.7706	3.79	0.010629	-0.0105	-0.00251	0.0027	0.0040994

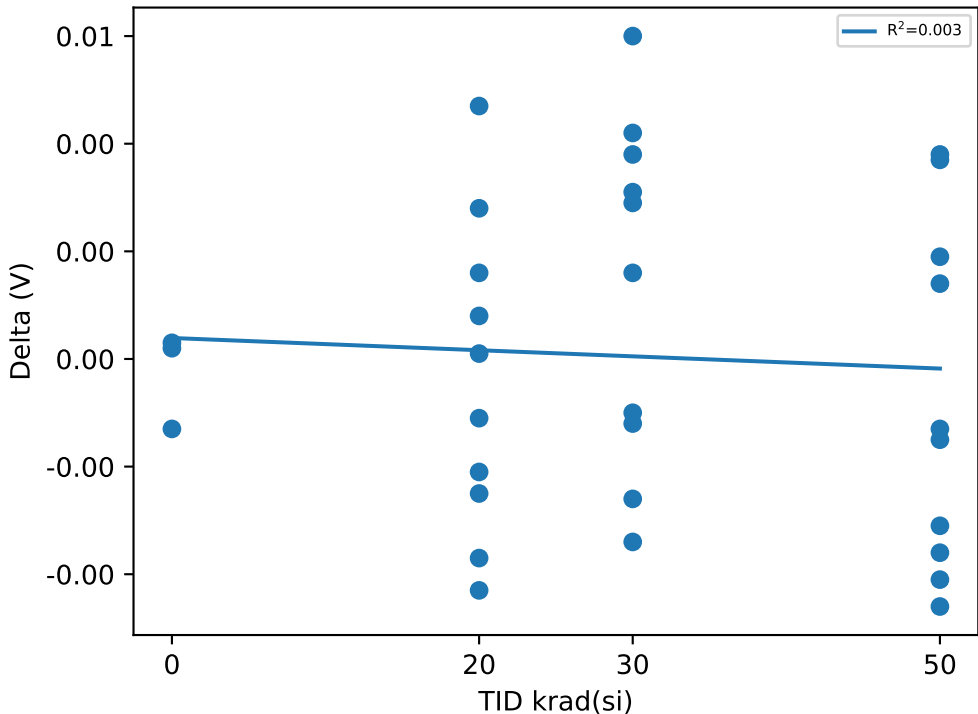
TID vs Result Stats



Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.5906	3.5914	0.0008
22	20	HDR BIAS	3.5915	3.5894	-0.0021
23	20	HDR BIAS	3.5785	3.5832	0.0047
24	20	HDR BIAS	3.6034	3.6023	-0.0011
25	20	HDR BIAS	3.5996	3.6012	0.0016
26	20	HDR UNBIAS	3.5944	3.5972	0.0028
27	20	HDR UNBIAS	3.5897	3.5898	0.0001
28	20	HDR UNBIAS	3.5915	3.5878	-0.0037
29	20	HDR UNBIAS	3.5841	3.5816	-0.0025
30	20	HDR UNBIAS	3.5838	3.5795	-0.0043
31	30	HDR BIAS	3.6033	3.6075	0.0042
32	30	HDR BIAS	3.5954	3.5928	-0.0026
33	30	HDR BIAS	3.5713	3.5679	-0.0034
34	30	HDR BIAS	3.5874	3.5903	0.0029
35	30	HDR BIAS	3.6001	3.5991	-0.001
36	30	HDR UNBIAS	3.5916	3.5976	0.006
37	30	HDR UNBIAS	3.584	3.5856	0.0016
38	30	HDR UNBIAS	3.5922	3.5953	0.0031
39	30	HDR UNBIAS	3.5947	3.5985	0.0038
40	30	HDR UNBIAS	3.6065	3.6053	-0.0012
41	50	HDR BIAS	3.5966	3.5953	-0.0013
42	50	HDR BIAS	3.5838	3.5876	0.0038
43	50	HDR BIAS	3.5852	3.5866	0.0014
44	50	HDR BIAS	3.5844	3.5863	0.0019
45	50	HDR BIAS	3.5897	3.5851	-0.0046
46	50	HDR UNBIAS	3.5815	3.5784	-0.0031
47	50	HDR UNBIAS	3.6085	3.6044	-0.0041
48	50	HDR UNBIAS	3.5797	3.5761	-0.0036
49	50	HDR UNBIAS	3.6124	3.6109	-0.0015
50	50	HDR UNBIAS	3.5926	3.5963	0.0037
71	0	CORRELATION	3.5954	3.5941	-0.0013
72	0	CORRELATION	3.5872	3.5875	0.0003
73	0	CORRELATION	3.5971	3.5973	0.0002

TID vs Post - Pre Exposure Delta

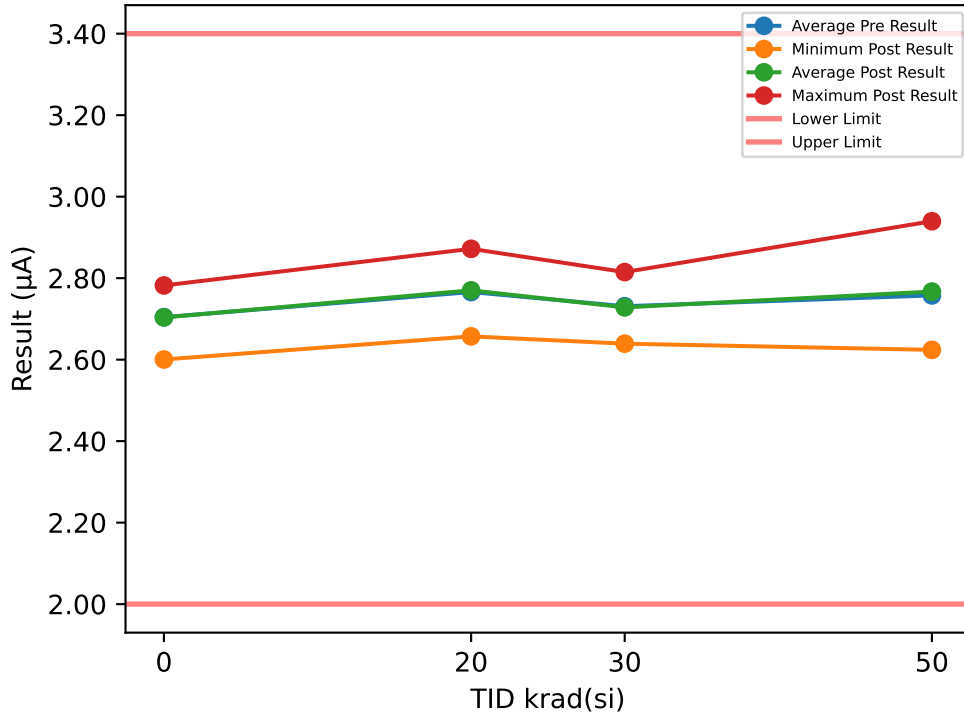


Test Statistics (V)

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	3.5872	3.5932	3.5971	0.0052937	3.5875	3.593	3.5973	0.0049973	-0.0013	-0.00026667	0.0003	0.00089629
20	3.5785	3.5907	3.6034	0.0074273	3.5795	3.5903	3.6023	0.0078998	-0.0043	-0.00037	0.0047	0.0029025
30	3.5713	3.5926	3.6065	0.010176	3.5679	3.594	3.6075	0.011244	-0.0034	0.00134	0.006	0.0031879
50	3.5797	3.5914	3.6124	0.011279	3.5761	3.5907	3.6109	0.011004	-0.0046	-0.00074	0.0038	0.0032094

# Device Test: 18.1 CURRENT|SS\_0p3V/SS/4.5/4.5/0/1000/4.5/100kHz//@I\_SS

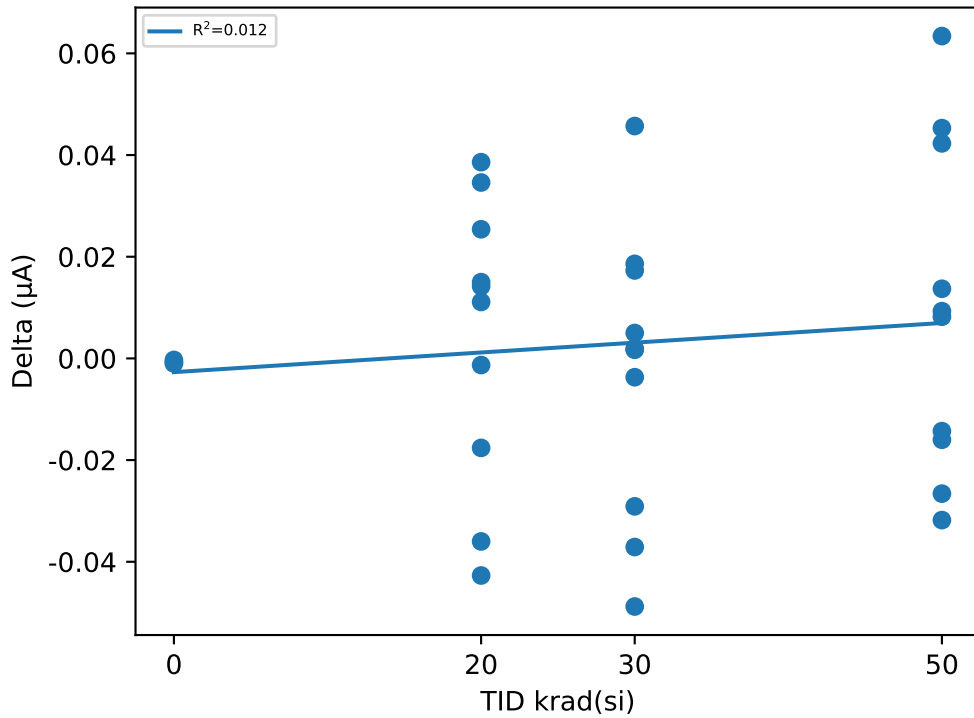
### TID vs Result Stats



### Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8315	2.8661	0.0346
22	20	HDR BIAS	2.7128	2.7239	0.0111
23	20	HDR BIAS	2.703	2.7416	0.0386
24	20	HDR BIAS	2.8245	2.7885	-0.036
25	20	HDR BIAS	2.8896	2.872	-0.0176
26	20	HDR UNBIAS	2.7227	2.7214	-0.0013
27	20	HDR UNBIAS	2.8155	2.8297	0.0142
28	20	HDR UNBIAS	2.7664	2.7918	0.0254
29	20	HDR UNBIAS	2.6998	2.6571	-0.0427
30	20	HDR UNBIAS	2.6935	2.7085	0.015
31	30	HDR BIAS	2.6683	2.6392	-0.0291
32	30	HDR BIAS	2.7554	2.774	0.0186
33	30	HDR BIAS	2.7063	2.752	0.0457
34	30	HDR BIAS	2.7815	2.7988	0.0173
35	30	HDR BIAS	2.721	2.7227	0.0017
36	30	HDR UNBIAS	2.7603	2.7566	-0.0037
37	30	HDR UNBIAS	2.6599	2.6618	0.0019
38	30	HDR UNBIAS	2.714	2.719	0.005
39	30	HDR UNBIAS	2.8637	2.8149	-0.0488
40	30	HDR UNBIAS	2.6809	2.6438	-0.0371
41	50	HDR BIAS	2.6621	2.6461	-0.016
42	50	HDR BIAS	2.8273	2.8366	0.0093
43	50	HDR BIAS	2.6793	2.6875	0.0082
44	50	HDR BIAS	2.7803	2.8437	0.0634
45	50	HDR BIAS	2.7944	2.7626	-0.0318
46	50	HDR UNBIAS	2.7795	2.8248	0.0453
47	50	HDR UNBIAS	2.7284	2.7018	-0.0266
48	50	HDR UNBIAS	2.6383	2.624	-0.0143
49	50	HDR UNBIAS	2.926	2.9397	0.0137
50	50	HDR UNBIAS	2.7611	2.8034	0.0423
71	0	CORRELATION	2.7291	2.7283	-0.0008
72	0	CORRELATION	2.6014	2.6004	-0.001
73	0	CORRELATION	2.7824	2.7821	-0.0003

### TID vs Post - Pre Exposure Delta

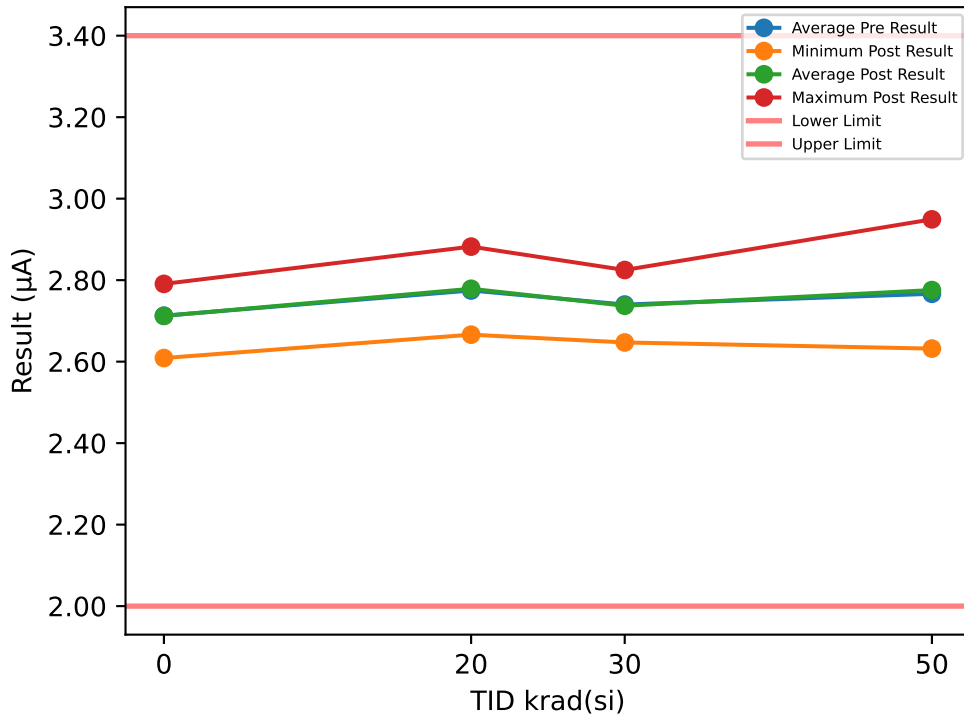


### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6014	2.7043	2.7824	0.093014	2.6004	2.7036	2.7821	0.093334	-0.001	-0.0007	-0.0003	0.00036056
20	2.6935	2.7659	2.8896	0.069724	2.6571	2.7701	2.872	0.07137	-0.0427	0.00413	0.0386	0.028171
30	2.6599	2.7311	2.8637	0.061562	2.6392	2.7283	2.8149	0.06284	-0.0488	-0.00285	0.0457	0.028485
50	2.6383	2.7577	2.926	0.085579	2.624	2.767	2.9397	0.10048	-0.0318	0.00935	0.0634	0.032502

# Device Test: 18.13 CURRENT|SS\_0p3V/SS/14/14/0/1000/5/100kHz//@I\_SS

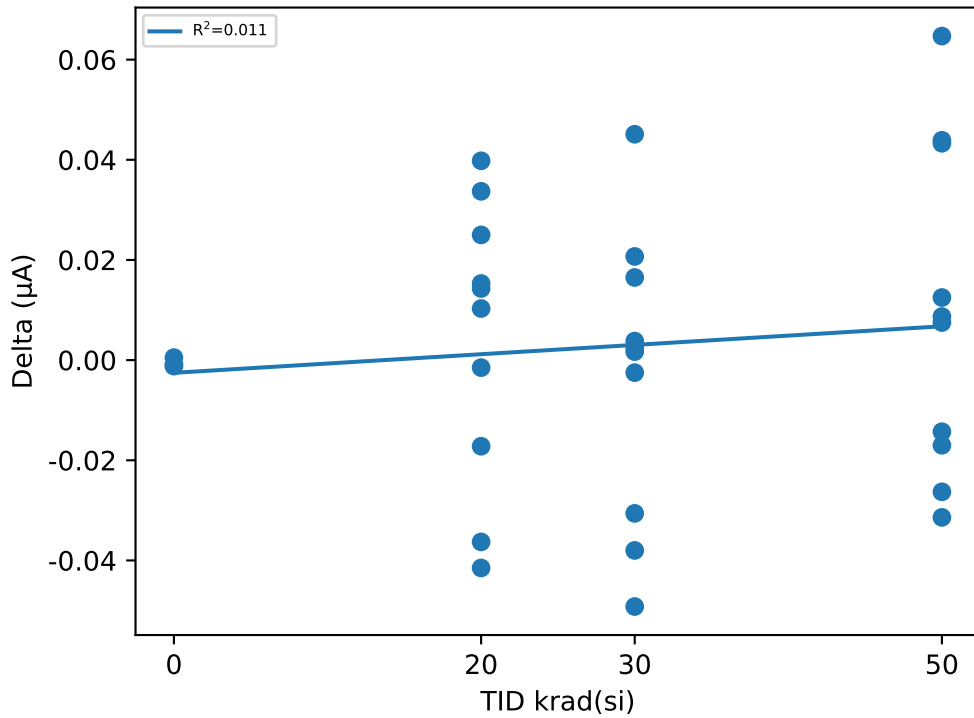
### TID vs Result Stats



### Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8416	2.8753	0.0337
22	20	HDR BIAS	2.7216	2.7319	0.0103
23	20	HDR BIAS	2.712	2.7518	0.0398
24	20	HDR BIAS	2.8336	2.7973	-0.0363
25	20	HDR BIAS	2.8995	2.8823	-0.0172
26	20	HDR UNBIAS	2.7314	2.7299	-0.0015
27	20	HDR UNBIAS	2.8236	2.8379	0.0143
28	20	HDR UNBIAS	2.7743	2.7993	0.025
29	20	HDR UNBIAS	2.7077	2.6662	-0.0415
30	20	HDR UNBIAS	2.701	2.7163	0.0153
31	30	HDR BIAS	2.6777	2.6471	-0.0306
32	30	HDR BIAS	2.7638	2.7845	0.0207
33	30	HDR BIAS	2.7145	2.7596	0.0451
34	30	HDR BIAS	2.7909	2.8074	0.0165
35	30	HDR BIAS	2.7288	2.7314	0.0026
36	30	HDR UNBIAS	2.7689	2.7664	-0.0025
37	30	HDR UNBIAS	2.6683	2.67	0.0017
38	30	HDR UNBIAS	2.7237	2.7275	0.0038
39	30	HDR UNBIAS	2.8741	2.8249	-0.0492
40	30	HDR UNBIAS	2.6907	2.6527	-0.038
41	50	HDR BIAS	2.6703	2.6533	-0.017
42	50	HDR BIAS	2.8363	2.845	0.0087
43	50	HDR BIAS	2.6879	2.6954	0.0075
44	50	HDR BIAS	2.7888	2.8535	0.0647
45	50	HDR BIAS	2.8028	2.7714	-0.0314
46	50	HDR UNBIAS	2.7883	2.8322	0.0439
47	50	HDR UNBIAS	2.7374	2.7111	-0.0263
48	50	HDR UNBIAS	2.6463	2.632	-0.0143
49	50	HDR UNBIAS	2.9367	2.9492	0.0125
50	50	HDR UNBIAS	2.7702	2.8135	0.0433
71	0	CORRELATION	2.738	2.7371	-0.0009
72	0	CORRELATION	2.61	2.6088	-0.0012
73	0	CORRELATION	2.7903	2.7908	0.0005

### TID vs Post - Pre Exposure Delta

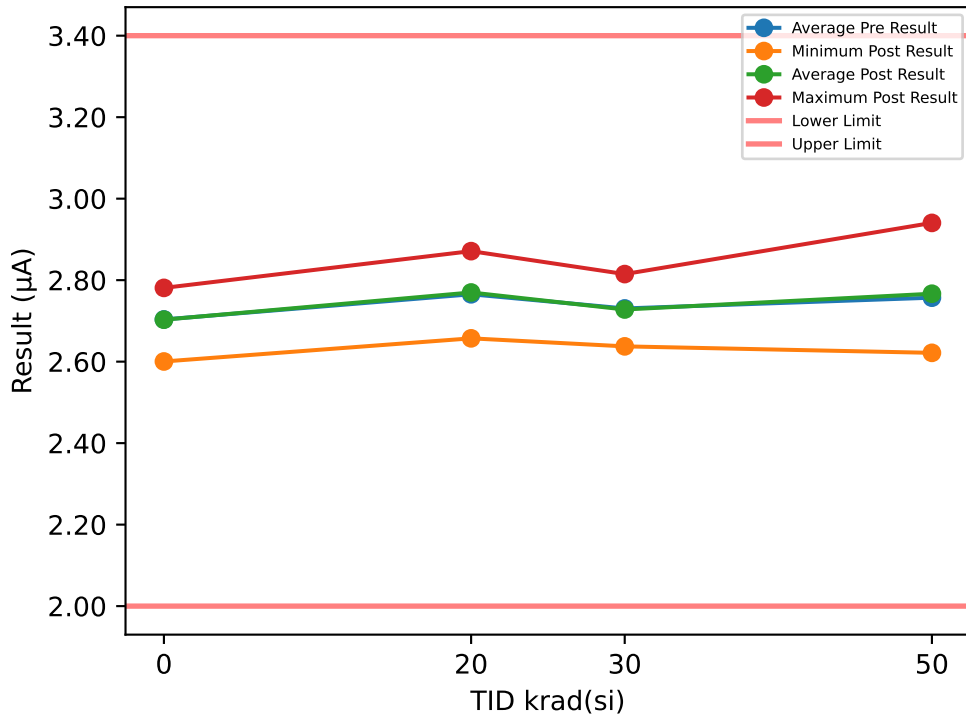


### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.61	2.7128	2.7903	0.092761	2.6088	2.7122	2.7908	0.093513	-0.0012	-0.00053333	0.0005	0.00090738
20	2.701	2.7746	2.8995	0.070283	2.6662	2.7788	2.8823	0.071635	-0.0415	0.00419	0.0398	0.027992
30	2.6683	2.7401	2.8741	0.061886	2.6471	2.7371	2.8249	0.063345	-0.0492	-0.00299	0.0451	0.028823
50	2.6463	2.7665	2.9367	0.086198	2.632	2.7757	2.9492	0.10102	-0.0314	0.00916	0.0647	0.032674

# Device Test: 18.17 CURRENT|SS\_0p3V/SS/4.5/4.5/0/1000/4.5/500kHz//@I\_SS

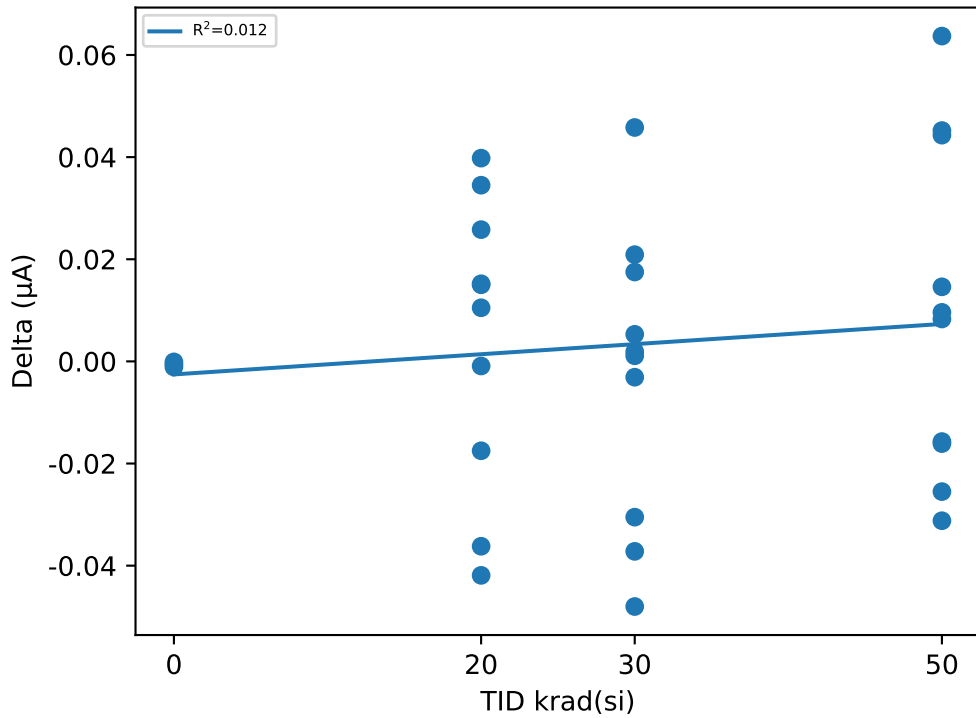
### TID vs Result Stats



### Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8314	2.8659	0.0345
22	20	HDR BIAS	2.7124	2.7229	0.0105
23	20	HDR BIAS	2.7019	2.7417	0.0398
24	20	HDR BIAS	2.8239	2.7877	-0.0362
25	20	HDR BIAS	2.8887	2.8712	-0.0175
26	20	HDR UNBIAS	2.7222	2.7213	-0.0009
27	20	HDR UNBIAS	2.8147	2.8299	0.0152
28	20	HDR UNBIAS	2.7661	2.7919	0.0258
29	20	HDR UNBIAS	2.6991	2.6572	-0.0419
30	20	HDR UNBIAS	2.6927	2.7077	0.015
31	30	HDR BIAS	2.668	2.6375	-0.0305
32	30	HDR BIAS	2.7545	2.7754	0.0209
33	30	HDR BIAS	2.7056	2.7514	0.0458
34	30	HDR BIAS	2.7811	2.7986	0.0175
35	30	HDR BIAS	2.7196	2.7215	0.0019
36	30	HDR UNBIAS	2.7599	2.7568	-0.0031
37	30	HDR UNBIAS	2.6596	2.6607	0.0011
38	30	HDR UNBIAS	2.714	2.7193	0.0053
39	30	HDR UNBIAS	2.8629	2.8149	-0.048
40	30	HDR UNBIAS	2.6806	2.6434	-0.0372
41	50	HDR BIAS	2.6612	2.6451	-0.0161
42	50	HDR BIAS	2.8266	2.8362	0.0096
43	50	HDR BIAS	2.6782	2.6865	0.0083
44	50	HDR BIAS	2.7795	2.8432	0.0637
45	50	HDR BIAS	2.7941	2.7629	-0.0312
46	50	HDR UNBIAS	2.7789	2.8241	0.0452
47	50	HDR UNBIAS	2.7278	2.7023	-0.0255
48	50	HDR UNBIAS	2.6373	2.6216	-0.0157
49	50	HDR UNBIAS	2.9259	2.9405	0.0146
50	50	HDR UNBIAS	2.7603	2.8046	0.0443
71	0	CORRELATION	2.7286	2.7275	-0.0011
72	0	CORRELATION	2.6005	2.6004	-0.0001
73	0	CORRELATION	2.7816	2.781	-0.0006

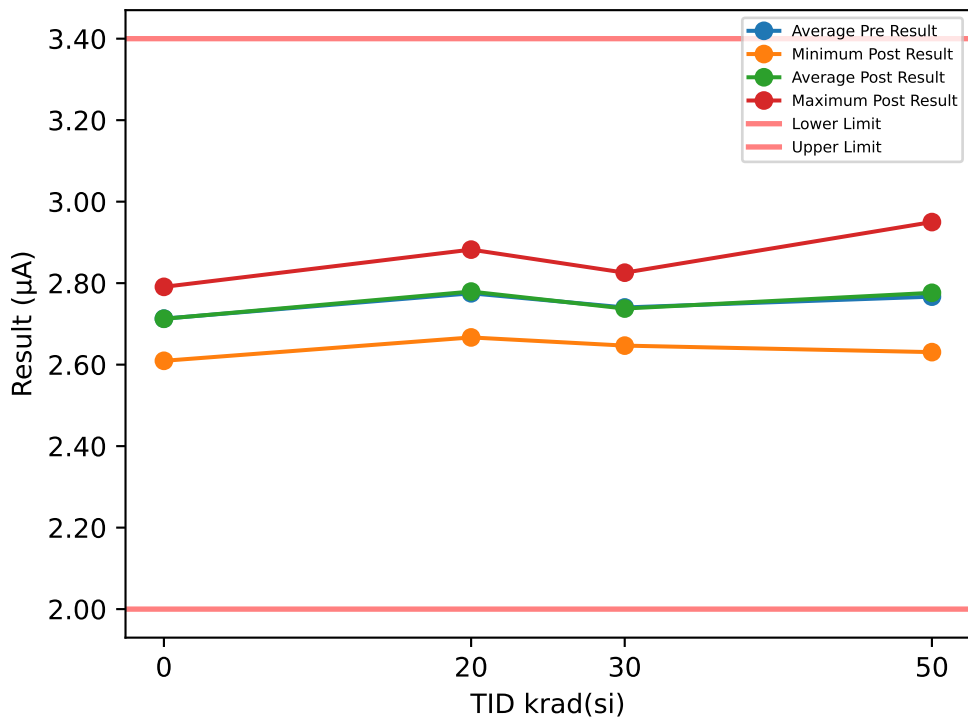
### TID vs Post - Pre Exposure Delta



### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6005	2.7036	2.7816	0.093109	2.6004	2.703	2.781	0.092766	-0.0011	-0.0006	-0.0001	0.0005
20	2.6927	2.7653	2.8887	0.069762	2.6572	2.7697	2.8712	0.071348	-0.0419	0.00443	0.0398	0.028251
30	2.6596	2.7306	2.8629	0.061432	2.6375	2.7279	2.8149	0.063381	-0.048	-0.00263	0.0458	0.028737
50	2.6373	2.757	2.9259	0.085837	2.6216	2.7667	2.9405	0.10113	-0.0312	0.00972	0.0637	0.032697

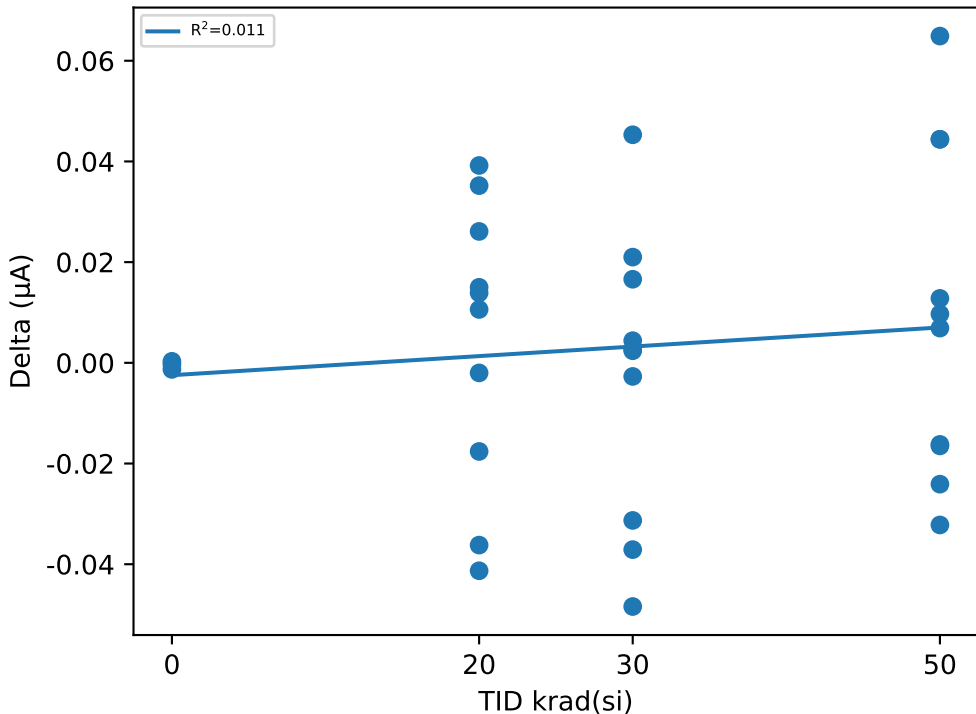
TID vs Result Stats



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8412	2.8764	0.0352
22	20	HDR BIAS	2.7222	2.7328	0.0106
23	20	HDR BIAS	2.7121	2.7513	0.0392
24	20	HDR BIAS	2.8343	2.7981	-0.0362
25	20	HDR BIAS	2.8999	2.8823	-0.0176
26	20	HDR UNBIAS	2.7316	2.7296	-0.002
27	20	HDR UNBIAS	2.8239	2.8389	0.015
28	20	HDR UNBIAS	2.7749	2.801	0.0261
29	20	HDR UNBIAS	2.7081	2.6668	-0.0413
30	20	HDR UNBIAS	2.7025	2.7164	0.0139
31	30	HDR BIAS	2.678	2.6467	-0.0313
32	30	HDR BIAS	2.764	2.785	0.021
33	30	HDR BIAS	2.7154	2.7607	0.0453
34	30	HDR BIAS	2.7913	2.8079	0.0166
35	30	HDR BIAS	2.7293	2.732	0.0027
36	30	HDR UNBIAS	2.7691	2.7664	-0.0027
37	30	HDR UNBIAS	2.6684	2.6708	0.0024
38	30	HDR UNBIAS	2.7236	2.728	0.0044
39	30	HDR UNBIAS	2.8741	2.8257	-0.0484
40	30	HDR UNBIAS	2.6904	2.6533	-0.0371
41	50	HDR BIAS	2.6704	2.6539	-0.0165
42	50	HDR BIAS	2.8366	2.8463	0.0097
43	50	HDR BIAS	2.6885	2.6954	0.0069
44	50	HDR BIAS	2.7892	2.8541	0.0649
45	50	HDR BIAS	2.8037	2.7715	-0.0322
46	50	HDR UNBIAS	2.7887	2.8331	0.0444
47	50	HDR UNBIAS	2.737	2.7129	-0.0241
48	50	HDR UNBIAS	2.6469	2.6307	-0.0162
49	50	HDR UNBIAS	2.9371	2.9499	0.0128
50	50	HDR UNBIAS	2.7706	2.815	0.0444
71	0	CORRELATION	2.7385	2.7372	-0.0013
72	0	CORRELATION	2.6097	2.6094	-0.0003
73	0	CORRELATION	2.7906	2.7909	0.0003

TID vs Post - Pre Exposure Delta



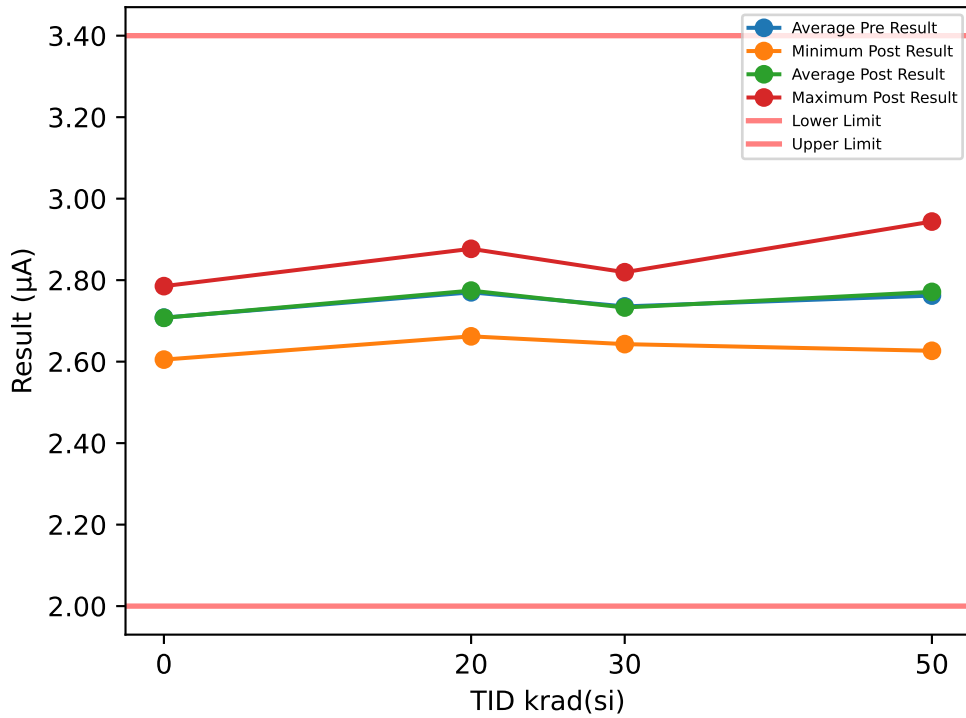
Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6097	2.7129	2.7906	0.093121	2.6094	2.7125	2.7909	0.093237	-0.0013	-0.00043333	0.0003	0.00080829
20	2.7025	2.7751	2.8999	0.070119	2.6668	2.7794	2.8823	0.071835	-0.0413	0.00429	0.0392	0.028153
30	2.6684	2.7404	2.8741	0.061874	2.6467	2.7376	2.8257	0.063481	-0.0484	-0.00271	0.0453	0.028739
50	2.6469	2.7669	2.9371	0.086229	2.6307	2.7763	2.9499	0.10142	-0.0322	0.00941	0.0649	0.032875



# Device Test: 18.25 CURRENT|SS\_0p3V/SS/12/12/0/1000/5/500kHz//@I\_SS

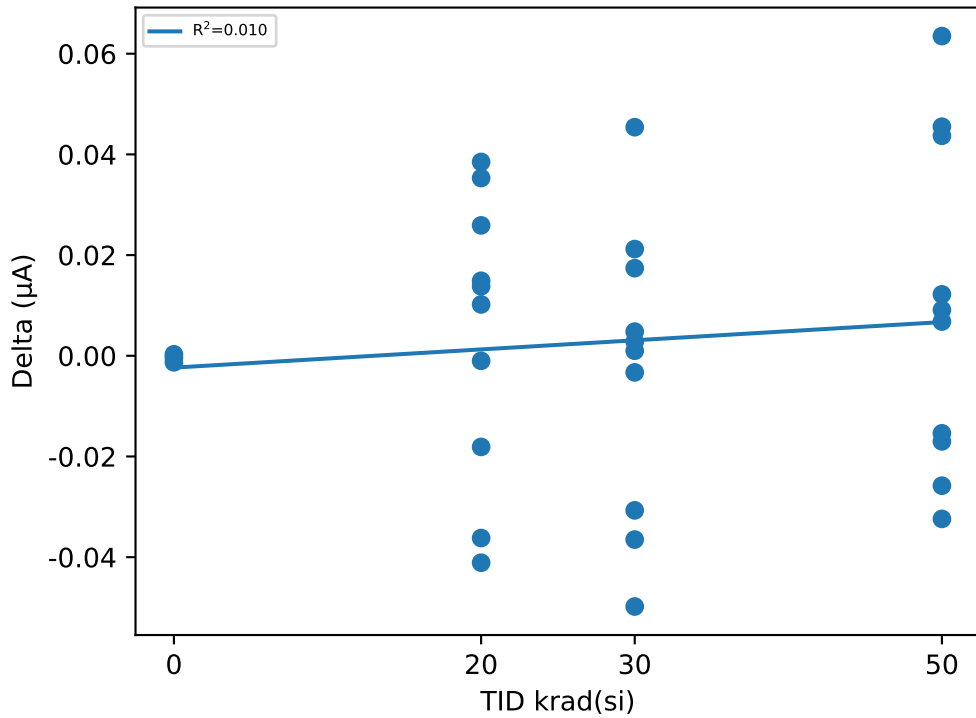
## TID vs Result Stats



## Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8362	2.8715	0.0353
22	20	HDR BIAS	2.7173	2.7275	0.0102
23	20	HDR BIAS	2.7078	2.7463	0.0385
24	20	HDR BIAS	2.8296	2.7934	-0.0362
25	20	HDR BIAS	2.895	2.8769	-0.0181
26	20	HDR UNBIAS	2.7268	2.7258	-0.001
27	20	HDR UNBIAS	2.8186	2.8335	0.0149
28	20	HDR UNBIAS	2.7697	2.7956	0.0259
29	20	HDR UNBIAS	2.7032	2.6621	-0.0411
30	20	HDR UNBIAS	2.6969	2.7107	0.0138
31	30	HDR BIAS	2.6737	2.643	-0.0307
32	30	HDR BIAS	2.7592	2.7804	0.0212
33	30	HDR BIAS	2.7098	2.7552	0.0454
34	30	HDR BIAS	2.7862	2.8036	0.0174
35	30	HDR BIAS	2.7248	2.7276	0.0028
36	30	HDR UNBIAS	2.7639	2.7606	-0.0033
37	30	HDR UNBIAS	2.6641	2.6651	0.001
38	30	HDR UNBIAS	2.7191	2.7239	0.0048
39	30	HDR UNBIAS	2.8693	2.8195	-0.0498
40	30	HDR UNBIAS	2.6857	2.6492	-0.0365
41	50	HDR BIAS	2.6659	2.6489	-0.017
42	50	HDR BIAS	2.8318	2.8409	0.0091
43	50	HDR BIAS	2.6834	2.6902	0.0068
44	50	HDR BIAS	2.7849	2.8484	0.0635
45	50	HDR BIAS	2.799	2.7666	-0.0324
46	50	HDR UNBIAS	2.7837	2.8292	0.0455
47	50	HDR UNBIAS	2.7328	2.707	-0.0258
48	50	HDR UNBIAS	2.642	2.6266	-0.0154
49	50	HDR UNBIAS	2.9316	2.9438	0.0122
50	50	HDR UNBIAS	2.7661	2.8098	0.0437
71	0	CORRELATION	2.7336	2.7323	-0.0013
72	0	CORRELATION	2.6047	2.605	0.0003
73	0	CORRELATION	2.7857	2.7853	-0.0004

## TID vs Post - Pre Exposure Delta



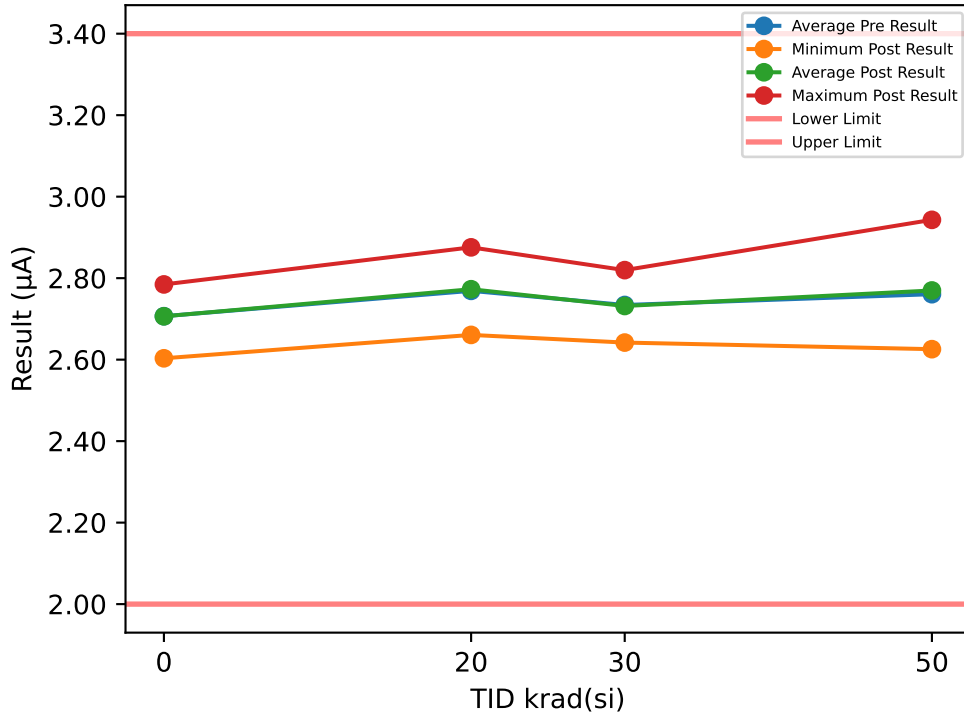
## Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6047	2.708	2.7857	0.093176	2.605	2.7075	2.7853	0.092666	-0.0013	-0.00046667	0.0003	0.00080208
20	2.6969	2.7701	2.895	0.070111	2.6621	2.7743	2.8769	0.071692	-0.0411	0.00422	0.0385	0.028019
30	2.6641	2.7356	2.8693	0.061718	2.643	2.7328	2.8195	0.063081	-0.0498	-0.00277	0.0454	0.028933
50	2.642	2.7621	2.9316	0.086077	2.6266	2.7711	2.9438	0.10112	-0.0324	0.00902	0.0635	0.03286



# Device Test: 18.29 CURRENT|SS\_0p3V/SS/14/14/0/1000/5/500kHz//@I\_SS

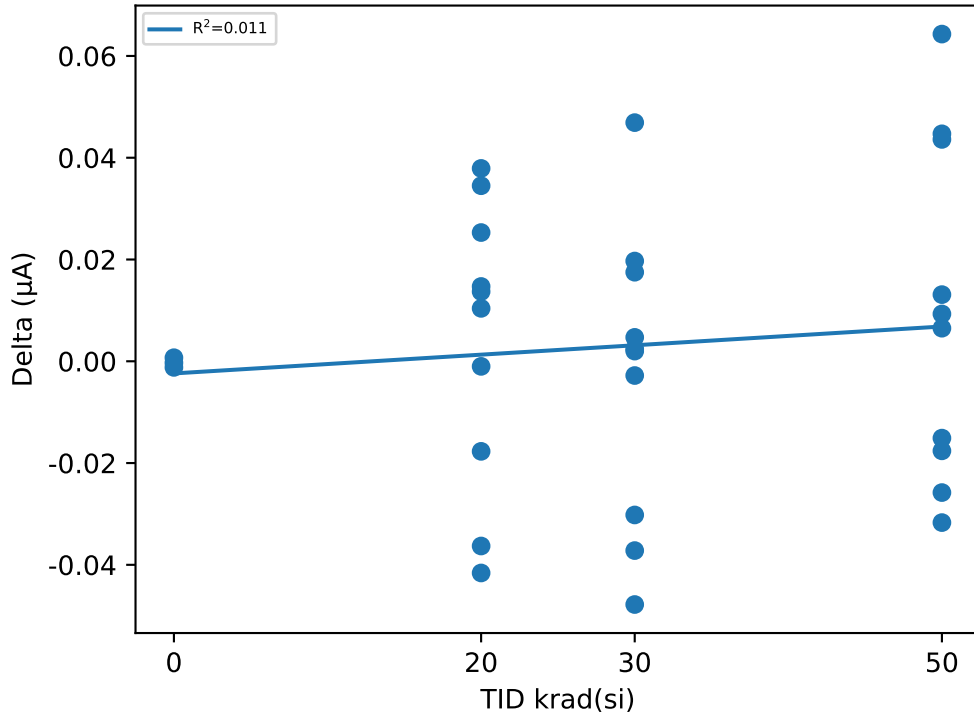
### TID vs Result Stats



### Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8352	2.8697	0.0345
22	20	HDR BIAS	2.7161	2.7265	0.0104
23	20	HDR BIAS	2.7062	2.7441	0.0379
24	20	HDR BIAS	2.8281	2.7918	-0.0363
25	20	HDR BIAS	2.8933	2.8756	-0.0177
26	20	HDR UNBIAS	2.7256	2.7246	-0.001
27	20	HDR UNBIAS	2.8176	2.8323	0.0147
28	20	HDR UNBIAS	2.7683	2.7936	0.0253
29	20	HDR UNBIAS	2.7023	2.6607	-0.0416
30	20	HDR UNBIAS	2.6954	2.7091	0.0137
31	30	HDR BIAS	2.6721	2.6419	-0.0302
32	30	HDR BIAS	2.7585	2.7782	0.0197
33	30	HDR BIAS	2.708	2.7549	0.0469
34	30	HDR BIAS	2.7852	2.8027	0.0175
35	30	HDR BIAS	2.7234	2.7258	0.0024
36	30	HDR UNBIAS	2.7623	2.7595	-0.0028
37	30	HDR UNBIAS	2.6624	2.6644	0.002
38	30	HDR UNBIAS	2.7175	2.7222	0.0047
39	30	HDR UNBIAS	2.8675	2.8197	-0.0478
40	30	HDR UNBIAS	2.6847	2.6475	-0.0372
41	50	HDR BIAS	2.6648	2.6472	-0.0176
42	50	HDR BIAS	2.8302	2.8395	0.0093
43	50	HDR BIAS	2.6823	2.6888	0.0065
44	50	HDR BIAS	2.7832	2.8475	0.0643
45	50	HDR BIAS	2.7969	2.7652	-0.0317
46	50	HDR UNBIAS	2.7826	2.8273	0.0447
47	50	HDR UNBIAS	2.731	2.7052	-0.0258
48	50	HDR UNBIAS	2.6408	2.6257	-0.0151
49	50	HDR UNBIAS	2.93	2.9431	0.0131
50	50	HDR UNBIAS	2.7645	2.8081	0.0436
71	0	CORRELATION	2.7324	2.7312	-0.0012
72	0	CORRELATION	2.6036	2.6033	-0.0003
73	0	CORRELATION	2.7839	2.7846	0.0007

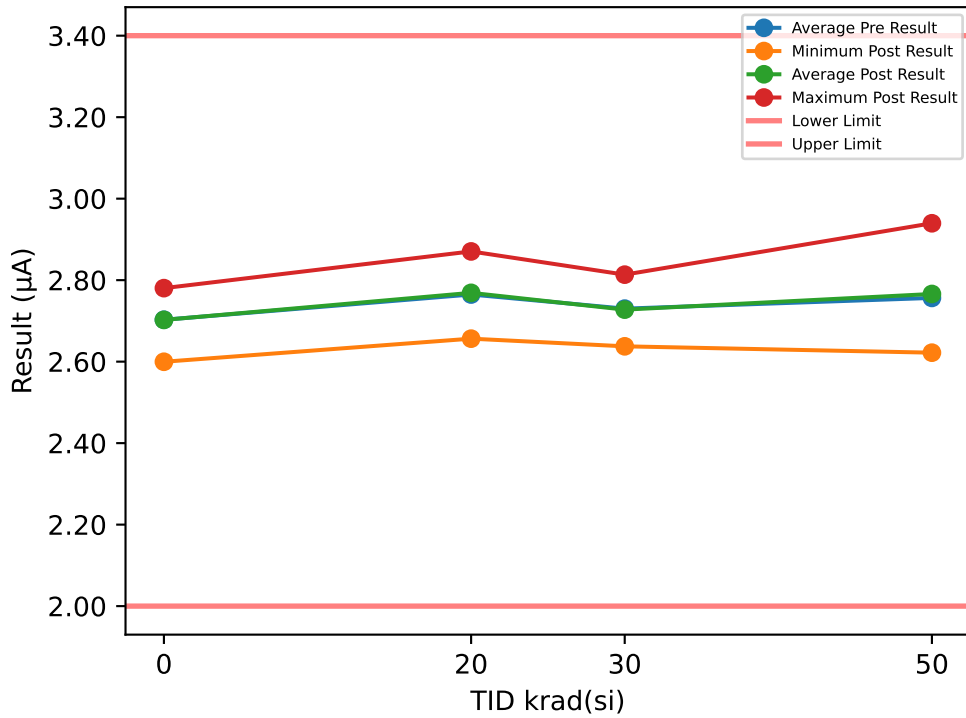
### TID vs Post - Pre Exposure Delta



### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6036	2.7066	2.7839	0.092871	2.6033	2.7064	2.7846	0.093166	-0.0012	-0.00026667	0.0007	0.00095044
20	2.6954	2.7688	2.8933	0.070063	2.6607	2.7728	2.8756	0.071652	-0.0416	0.00399	0.0379	0.027853
30	2.6624	2.7342	2.8675	0.061729	2.6419	2.7317	2.8197	0.063304	-0.0478	-0.00248	0.0469	0.028777
50	2.6408	2.7606	2.93	0.085897	2.6257	2.7698	2.9431	0.10124	-0.0317	0.00913	0.0643	0.032844

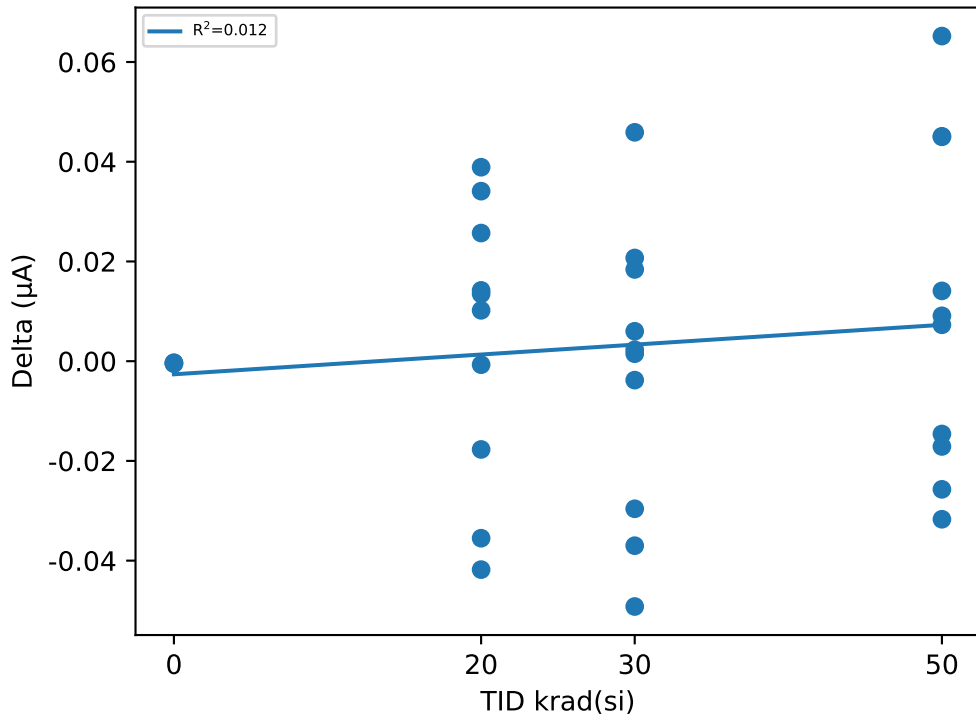
TID vs Result Stats



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8305	2.8646	0.0341
22	20	HDR BIAS	2.7118	2.722	0.0102
23	20	HDR BIAS	2.7016	2.7405	0.0389
24	20	HDR BIAS	2.8232	2.7877	-0.0355
25	20	HDR BIAS	2.8882	2.8705	-0.0177
26	20	HDR UNBIAS	2.7215	2.7208	-0.0007
27	20	HDR UNBIAS	2.8145	2.8287	0.0142
28	20	HDR UNBIAS	2.7653	2.791	0.0257
29	20	HDR UNBIAS	2.6982	2.6564	-0.0418
30	20	HDR UNBIAS	2.6926	2.7061	0.0135
31	30	HDR BIAS	2.6672	2.6376	-0.0296
32	30	HDR BIAS	2.754	2.7747	0.0207
33	30	HDR BIAS	2.7053	2.7512	0.0459
34	30	HDR BIAS	2.7802	2.7986	0.0184
35	30	HDR BIAS	2.7194	2.7217	0.0023
36	30	HDR UNBIAS	2.7595	2.7557	-0.0038
37	30	HDR UNBIAS	2.6591	2.6606	0.0015
38	30	HDR UNBIAS	2.7135	2.7195	0.006
39	30	HDR UNBIAS	2.8627	2.8135	-0.0492
40	30	HDR UNBIAS	2.6802	2.6432	-0.037
41	50	HDR BIAS	2.661	2.6439	-0.0171
42	50	HDR BIAS	2.8265	2.8356	0.0091
43	50	HDR BIAS	2.678	2.6853	0.0073
44	50	HDR BIAS	2.7787	2.8439	0.0652
45	50	HDR BIAS	2.7929	2.7612	-0.0317
46	50	HDR UNBIAS	2.7786	2.8236	0.045
47	50	HDR UNBIAS	2.727	2.7013	-0.0257
48	50	HDR UNBIAS	2.6366	2.622	-0.0146
49	50	HDR UNBIAS	2.9255	2.9396	0.0141
50	50	HDR UNBIAS	2.7592	2.8043	0.0451
71	0	CORRELATION	2.7277	2.7272	-0.0005
72	0	CORRELATION	2.6001	2.5997	-0.0004
73	0	CORRELATION	2.7807	2.7804	-0.0003

TID vs Post - Pre Exposure Delta

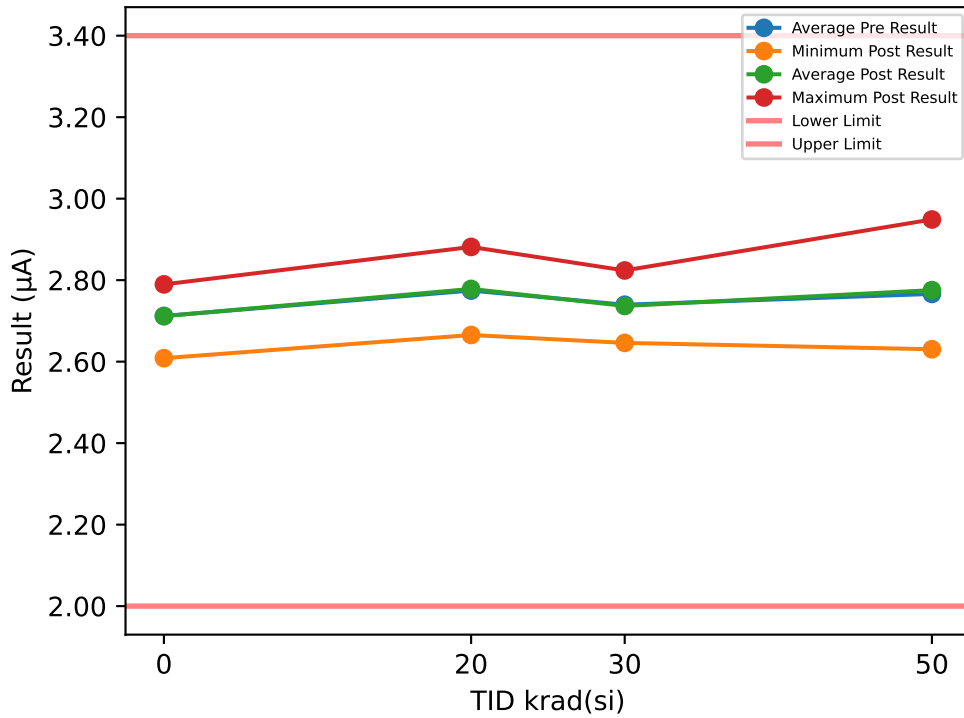


Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6001	2.7028	2.7807	0.092832	2.5997	2.7024	2.7804	0.092861	-0.0005	-0.0004	-0.0003	0.0001
20	2.6926	2.7647	2.8882	0.069723	2.6564	2.7688	2.8705	0.071351	-0.0418	0.00409	0.0389	0.027846
30	2.6591	2.7301	2.8627	0.061482	2.6376	2.7276	2.8135	0.063067	-0.0492	-0.00248	0.0459	0.028937
50	2.6366	2.7564	2.9255	0.085831	2.622	2.7661	2.9396	0.10121	-0.0317	0.00967	0.0652	0.033134

# Device Test: 18.37 CURRENT|SS\_0p3V/SS/5/5/0/1000/5/1MHz//@I\_SS

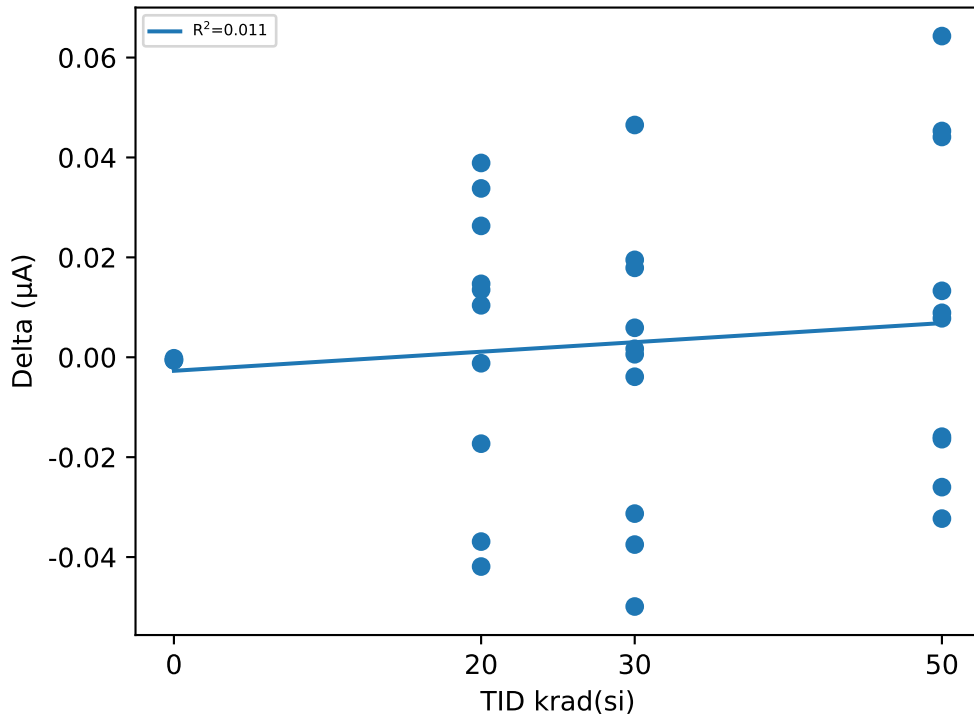
### TID vs Result Stats



### Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8412	2.875	0.0338
22	20	HDR BIAS	2.7215	2.7319	0.0104
23	20	HDR BIAS	2.7115	2.7504	0.0389
24	20	HDR BIAS	2.8339	2.797	-0.0369
25	20	HDR BIAS	2.8988	2.8815	-0.0173
26	20	HDR UNBIAS	2.731	2.7298	-0.0012
27	20	HDR UNBIAS	2.8234	2.8381	0.0147
28	20	HDR UNBIAS	2.7745	2.8008	0.0263
29	20	HDR UNBIAS	2.7073	2.6654	-0.0419
30	20	HDR UNBIAS	2.7012	2.7147	0.0135
31	30	HDR BIAS	2.6773	2.646	-0.0313
32	30	HDR BIAS	2.7633	2.7828	0.0195
33	30	HDR BIAS	2.7144	2.7609	0.0465
34	30	HDR BIAS	2.7902	2.8081	0.0179
35	30	HDR BIAS	2.7287	2.7304	0.0017
36	30	HDR UNBIAS	2.769	2.7651	-0.0039
37	30	HDR UNBIAS	2.6679	2.6685	0.0006
38	30	HDR UNBIAS	2.7225	2.7284	0.0059
39	30	HDR UNBIAS	2.8737	2.8238	-0.0499
40	30	HDR UNBIAS	2.69	2.6525	-0.0375
41	50	HDR BIAS	2.6697	2.6533	-0.0164
42	50	HDR BIAS	2.8365	2.8454	0.0089
43	50	HDR BIAS	2.6875	2.6953	0.0078
44	50	HDR BIAS	2.7888	2.8531	0.0643
45	50	HDR BIAS	2.8031	2.7708	-0.0323
46	50	HDR UNBIAS	2.788	2.8333	0.0453
47	50	HDR UNBIAS	2.7366	2.7106	-0.026
48	50	HDR UNBIAS	2.6463	2.6304	-0.0159
49	50	HDR UNBIAS	2.9356	2.9489	0.0133
50	50	HDR UNBIAS	2.7698	2.8139	0.0441
71	0	CORRELATION	2.7374	2.7368	-0.0006
72	0	CORRELATION	2.6091	2.6085	-0.0006
73	0	CORRELATION	2.7898	2.7896	-0.0002

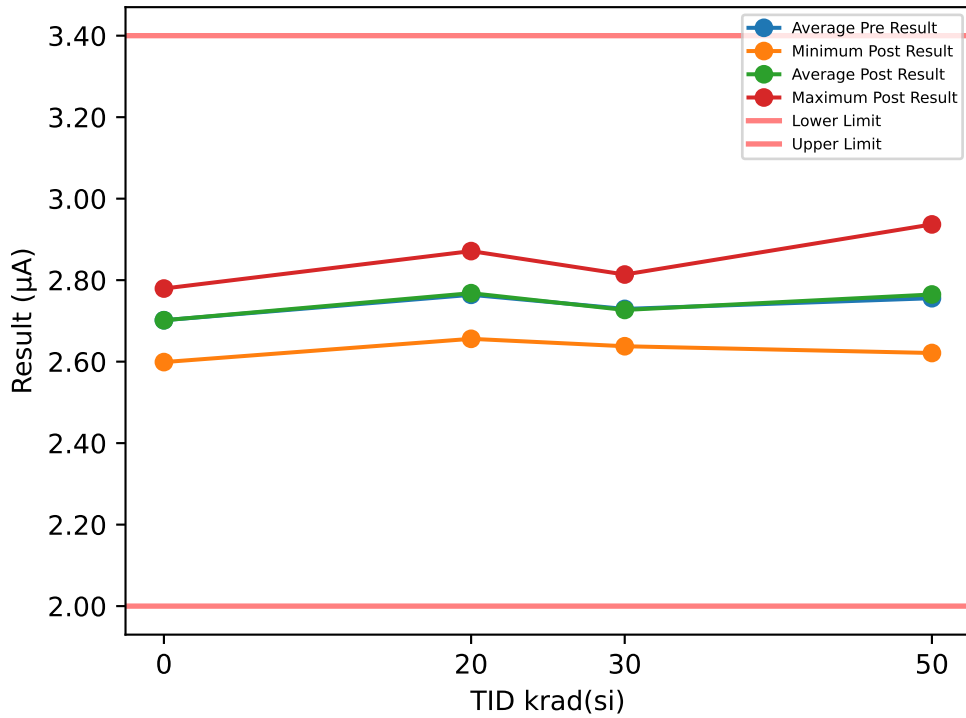
### TID vs Post - Pre Exposure Delta



### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6091	2.7121	2.7898	0.092969	2.6085	2.7116	2.7896	0.093136	-0.0006	-0.00046667	-0.0002	0.00023094
20	2.7012	2.7744	2.8988	0.07022	2.6654	2.7785	2.8815	0.071886	-0.0419	0.00403	0.0389	0.028106
30	2.6679	2.7397	2.8737	0.061912	2.646	2.7367	2.8238	0.063489	-0.0499	-0.00305	0.0465	0.029248
50	2.6463	2.7662	2.9356	0.086125	2.6304	2.7755	2.9489	0.10135	-0.0323	0.00931	0.0643	0.033036

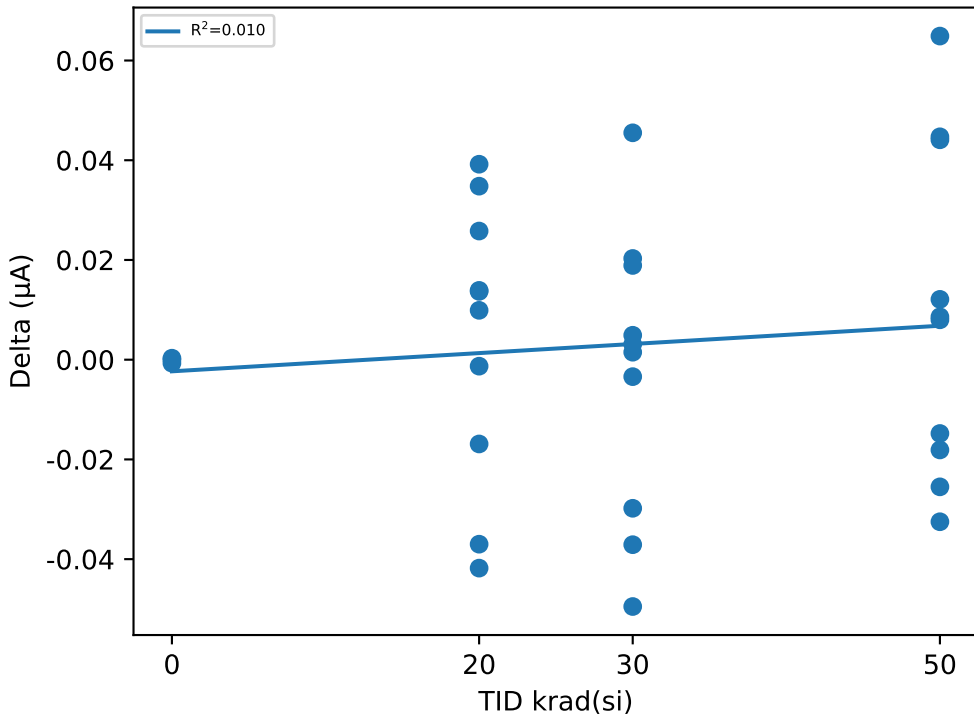
TID vs Result Stats



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8298	2.8646	0.0348
22	20	HDR BIAS	2.7115	2.7214	0.0099
23	20	HDR BIAS	2.7011	2.7403	0.0392
24	20	HDR BIAS	2.8237	2.7867	-0.037
25	20	HDR BIAS	2.8882	2.8713	-0.0169
26	20	HDR UNBIAS	2.7213	2.72	-0.0013
27	20	HDR UNBIAS	2.8126	2.8265	0.0139
28	20	HDR UNBIAS	2.7636	2.7894	0.0258
29	20	HDR UNBIAS	2.6978	2.656	-0.0418
30	20	HDR UNBIAS	2.6905	2.7042	0.0137
31	30	HDR BIAS	2.6676	2.6378	-0.0298
32	30	HDR BIAS	2.7536	2.7739	0.0203
33	30	HDR BIAS	2.7036	2.7491	0.0455
34	30	HDR BIAS	2.7792	2.7981	0.0189
35	30	HDR BIAS	2.7188	2.7219	0.0031
36	30	HDR UNBIAS	2.7577	2.7543	-0.0034
37	30	HDR UNBIAS	2.6579	2.6594	0.0015
38	30	HDR UNBIAS	2.7127	2.7176	0.0049
39	30	HDR UNBIAS	2.8633	2.8138	-0.0495
40	30	HDR UNBIAS	2.6799	2.6428	-0.0371
41	50	HDR BIAS	2.6601	2.642	-0.0181
42	50	HDR BIAS	2.8256	2.8342	0.0086
43	50	HDR BIAS	2.677	2.685	0.008
44	50	HDR BIAS	2.7781	2.843	0.0649
45	50	HDR BIAS	2.7927	2.7602	-0.0325
46	50	HDR UNBIAS	2.7776	2.8223	0.0447
47	50	HDR UNBIAS	2.7259	2.7004	-0.0255
48	50	HDR UNBIAS	2.636	2.6212	-0.0148
49	50	HDR UNBIAS	2.9247	2.9368	0.0121
50	50	HDR UNBIAS	2.759	2.8031	0.0441
71	0	CORRELATION	2.727	2.7263	-0.0007
72	0	CORRELATION	2.5989	2.5989	0
73	0	CORRELATION	2.7791	2.7794	0.0003

TID vs Post - Pre Exposure Delta

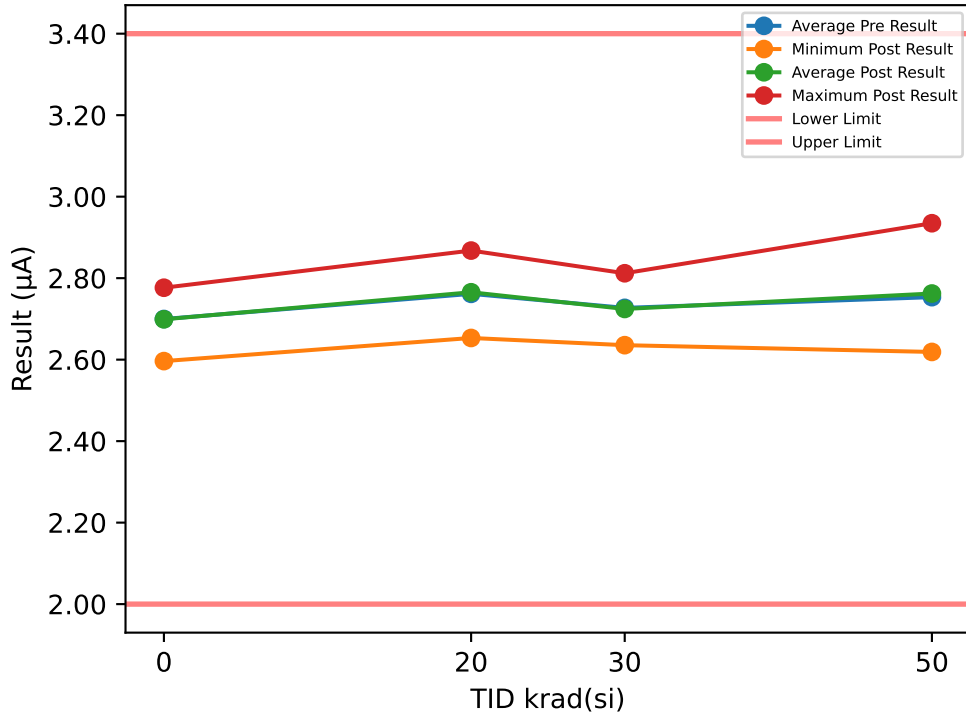


Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5989	2.7017	2.7791	0.092733	2.5989	2.7015	2.7794	0.092764	-0.0007	-0.00013333	0.0003	0.00051316
20	2.6905	2.764	2.8882	0.069922	2.656	2.768	2.8713	0.071562	-0.0418	0.00403	0.0392	0.028153
30	2.6579	2.7294	2.8633	0.061675	2.6378	2.7269	2.8138	0.063028	-0.0495	-0.00256	0.0455	0.028937
50	2.636	2.7557	2.9247	0.085866	2.6212	2.7648	2.9368	0.10084	-0.0325	0.00915	0.0649	0.033091

# Device Test: 18.45 CURRENT|SS\_0p3V/SS/14/14/0/1000/5/1MHz//@I\_SS

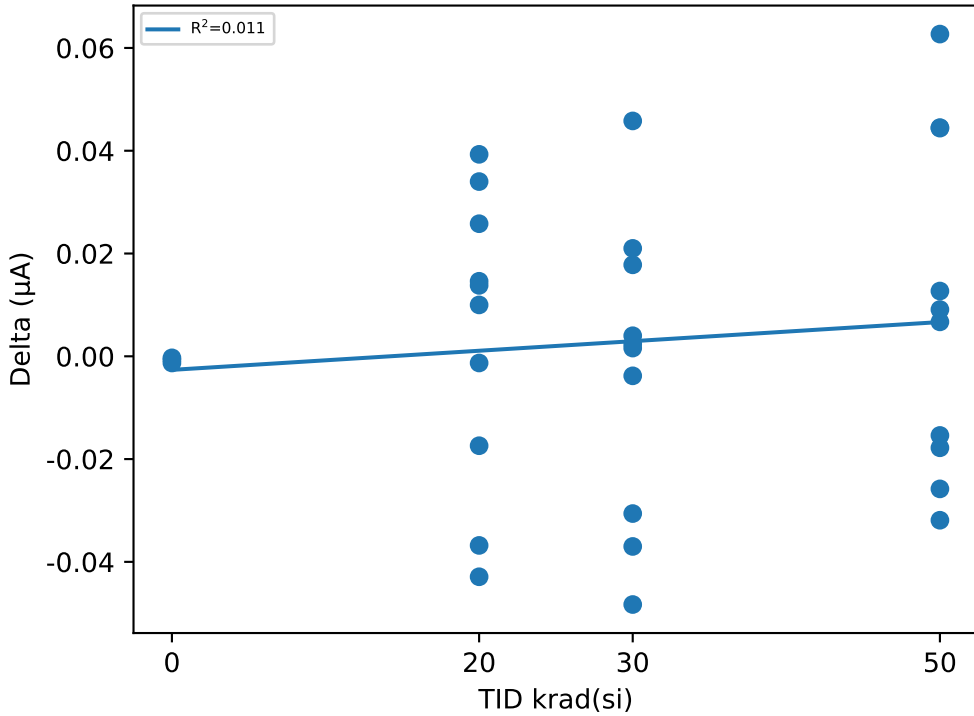
### TID vs Result Stats



### Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8271	2.8611	0.034
22	20	HDR BIAS	2.7089	2.7189	0.01
23	20	HDR BIAS	2.6984	2.7377	0.0393
24	20	HDR BIAS	2.8213	2.7845	-0.0368
25	20	HDR BIAS	2.8851	2.8677	-0.0174
26	20	HDR UNBIAS	2.719	2.7177	-0.0013
27	20	HDR UNBIAS	2.8102	2.8248	0.0146
28	20	HDR UNBIAS	2.7607	2.7865	0.0258
29	20	HDR UNBIAS	2.6961	2.6532	-0.0429
30	20	HDR UNBIAS	2.6878	2.7016	0.0138
31	30	HDR BIAS	2.6661	2.6355	-0.0306
32	30	HDR BIAS	2.7509	2.7719	0.021
33	30	HDR BIAS	2.701	2.7468	0.0458
34	30	HDR BIAS	2.7771	2.7949	0.0178
35	30	HDR BIAS	2.7163	2.7187	0.0024
36	30	HDR UNBIAS	2.755	2.7512	-0.0038
37	30	HDR UNBIAS	2.6553	2.6569	0.0016
38	30	HDR UNBIAS	2.7111	2.7151	0.004
39	30	HDR UNBIAS	2.8603	2.812	-0.0483
40	30	HDR UNBIAS	2.6779	2.6409	-0.037
41	50	HDR BIAS	2.6582	2.6404	-0.0178
42	50	HDR BIAS	2.8233	2.8324	0.0091
43	50	HDR BIAS	2.6748	2.6815	0.0067
44	50	HDR BIAS	2.7763	2.839	0.0627
45	50	HDR BIAS	2.79	2.7581	-0.0319
46	50	HDR UNBIAS	2.7749	2.8193	0.0444
47	50	HDR UNBIAS	2.7234	2.6976	-0.0258
48	50	HDR UNBIAS	2.6343	2.6189	-0.0154
49	50	HDR UNBIAS	2.9221	2.9348	0.0127
50	50	HDR UNBIAS	2.7564	2.8009	0.0445
71	0	CORRELATION	2.7253	2.724	-0.0013
72	0	CORRELATION	2.5967	2.5964	-0.0003
73	0	CORRELATION	2.7772	2.7765	-0.0007

### TID vs Post - Pre Exposure Delta

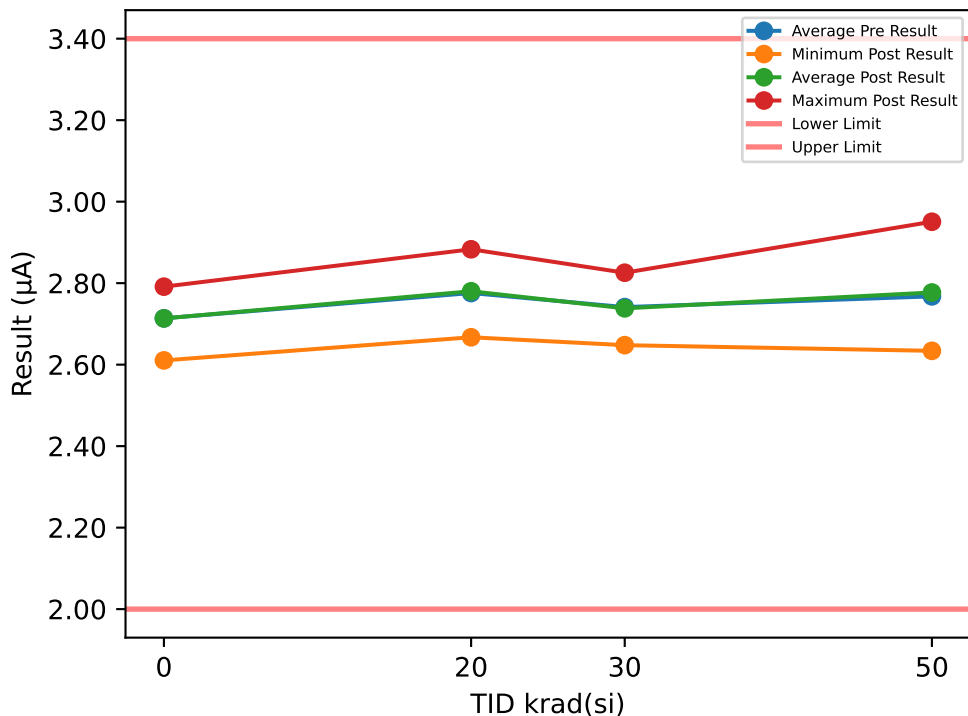


### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5967	2.6997	2.7772	0.092926	2.5964	2.699	2.7765	0.092623	-0.0013	-0.00076667	-0.0003	0.00050332
20	2.6878	2.7615	2.8851	0.069755	2.6532	2.7654	2.8677	0.071357	-0.0429	0.00391	0.0393	0.028316
30	2.6553	2.7271	2.8603	0.061407	2.6355	2.7244	2.812	0.062956	-0.0483	-0.00271	0.0458	0.028789
50	2.6343	2.7534	2.9221	0.085639	2.6189	2.7623	2.9348	0.1008	-0.0319	0.00892	0.0627	0.032683

# Device Test: 18.5 CURRENT|SS\_0p3V/SS/5/5/0/1000/5/100kHz//@I\_SS

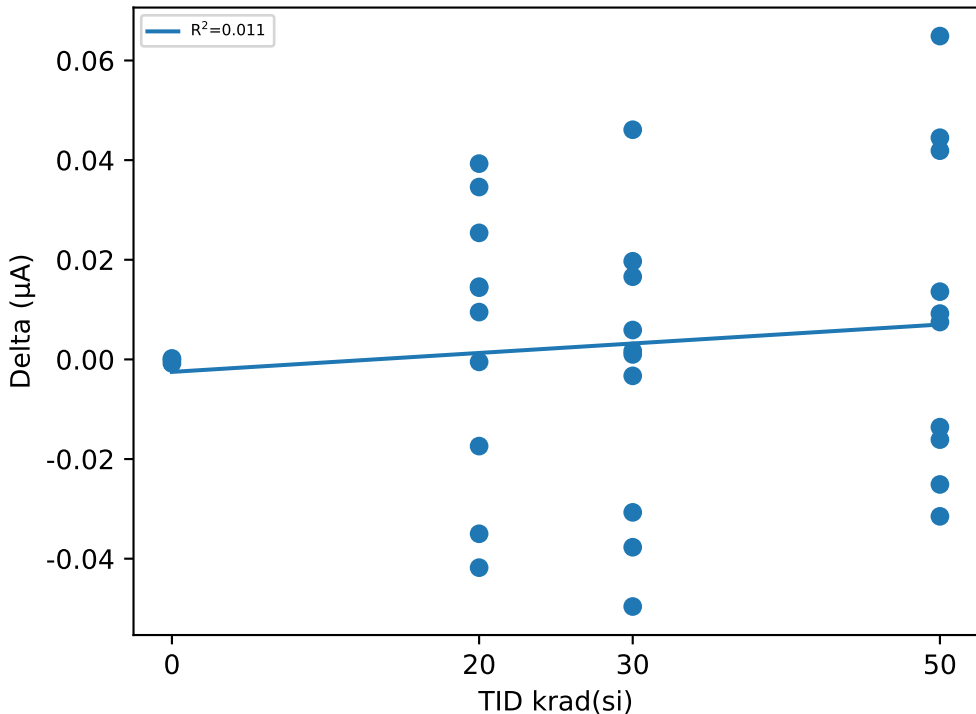
### TID vs Result Stats



### Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8424	2.877	0.0346
22	20	HDR BIAS	2.7232	2.7327	0.0095
23	20	HDR BIAS	2.7126	2.7519	0.0393
24	20	HDR BIAS	2.8346	2.7996	-0.035
25	20	HDR BIAS	2.9005	2.8831	-0.0174
26	20	HDR UNBIAS	2.7323	2.7318	-0.0005
27	20	HDR UNBIAS	2.8245	2.8389	0.0144
28	20	HDR UNBIAS	2.7758	2.8012	0.0254
29	20	HDR UNBIAS	2.709	2.6672	-0.0418
30	20	HDR UNBIAS	2.7029	2.7175	0.0146
31	30	HDR BIAS	2.6785	2.6478	-0.0307
32	30	HDR BIAS	2.7648	2.7845	0.0197
33	30	HDR BIAS	2.716	2.7621	0.0461
34	30	HDR BIAS	2.792	2.8086	0.0166
35	30	HDR BIAS	2.7307	2.7324	0.0017
36	30	HDR UNBIAS	2.77	2.7667	-0.0033
37	30	HDR UNBIAS	2.6696	2.6706	0.001
38	30	HDR UNBIAS	2.7239	2.7298	0.0059
39	30	HDR UNBIAS	2.8752	2.8256	-0.0496
40	30	HDR UNBIAS	2.6915	2.6538	-0.0377
41	50	HDR BIAS	2.6714	2.6553	-0.0161
42	50	HDR BIAS	2.8376	2.8468	0.0092
43	50	HDR BIAS	2.6893	2.6968	0.0075
44	50	HDR BIAS	2.79	2.8549	0.0649
45	50	HDR BIAS	2.8047	2.7732	-0.0315
46	50	HDR UNBIAS	2.7893	2.8338	0.0445
47	50	HDR UNBIAS	2.7375	2.7124	-0.0251
48	50	HDR UNBIAS	2.6475	2.6339	-0.0136
49	50	HDR UNBIAS	2.9371	2.9507	0.0136
50	50	HDR UNBIAS	2.7713	2.8132	0.0419
71	0	CORRELATION	2.7395	2.7387	-0.0008
72	0	CORRELATION	2.6102	2.6104	0.0002
73	0	CORRELATION	2.7915	2.7914	-0.0001

### TID vs Post - Pre Exposure Delta

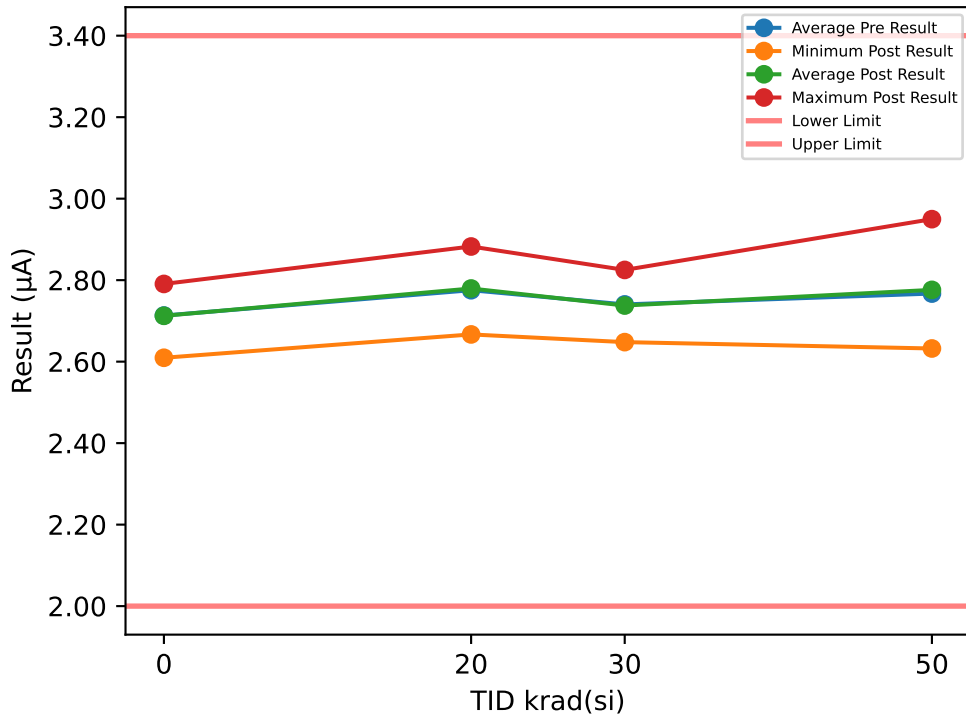


### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6102	2.7137	2.7915	0.093356	2.6104	2.7135	2.7914	0.093094	-0.0008	-0.00023333	0.0002	0.00051316
20	2.7029	2.7758	2.9005	0.070115	2.6672	2.7801	2.8831	0.071741	-0.0418	0.00431	0.0393	0.027863
30	2.6696	2.7412	2.8752	0.06191	2.6478	2.7382	2.8256	0.063326	-0.0496	-0.00303	0.0461	0.029003
50	2.6475	2.7676	2.9371	0.086093	2.6339	2.7771	2.9507	0.10086	-0.0315	0.00953	0.0649	0.032373



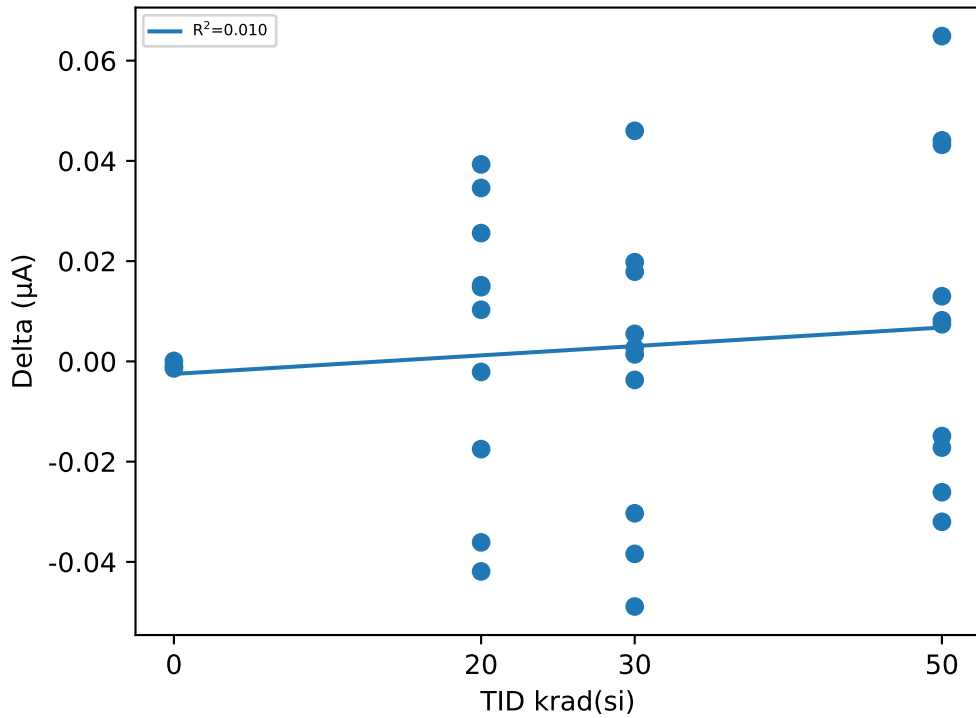
TID vs Result Stats



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8419	2.8765	0.0346
22	20	HDR BIAS	2.7222	2.7325	0.0103
23	20	HDR BIAS	2.7125	2.7518	0.0393
24	20	HDR BIAS	2.8344	2.7983	-0.0361
25	20	HDR BIAS	2.9001	2.8826	-0.0175
26	20	HDR UNBIAS	2.7324	2.7303	-0.0021
27	20	HDR UNBIAS	2.8241	2.8389	0.0148
28	20	HDR UNBIAS	2.7747	2.8003	0.0256
29	20	HDR UNBIAS	2.7087	2.6668	-0.0419
30	20	HDR UNBIAS	2.702	2.7172	0.0152
31	30	HDR BIAS	2.6782	2.6479	-0.0303
32	30	HDR BIAS	2.7646	2.7844	0.0198
33	30	HDR BIAS	2.7148	2.7608	0.046
34	30	HDR BIAS	2.7911	2.809	0.0179
35	30	HDR BIAS	2.7295	2.7322	0.0027
36	30	HDR UNBIAS	2.7693	2.7656	-0.0037
37	30	HDR UNBIAS	2.6687	2.6701	0.0014
38	30	HDR UNBIAS	2.7236	2.7291	0.0055
39	30	HDR UNBIAS	2.874	2.8251	-0.0489
40	30	HDR UNBIAS	2.6909	2.6525	-0.0384
41	50	HDR BIAS	2.6707	2.6535	-0.0172
42	50	HDR BIAS	2.8369	2.8451	0.0082
43	50	HDR BIAS	2.6886	2.696	0.0074
44	50	HDR BIAS	2.7893	2.8542	0.0649
45	50	HDR BIAS	2.8036	2.7716	-0.032
46	50	HDR UNBIAS	2.7893	2.8334	0.0441
47	50	HDR UNBIAS	2.7378	2.7117	-0.0261
48	50	HDR UNBIAS	2.6472	2.6323	-0.0149
49	50	HDR UNBIAS	2.9367	2.9497	0.013
50	50	HDR UNBIAS	2.7706	2.8138	0.0432
71	0	CORRELATION	2.7386	2.7372	-0.0014
72	0	CORRELATION	2.6104	2.6095	-0.0009
73	0	CORRELATION	2.7906	2.7907	0.0001

TID vs Post - Pre Exposure Delta



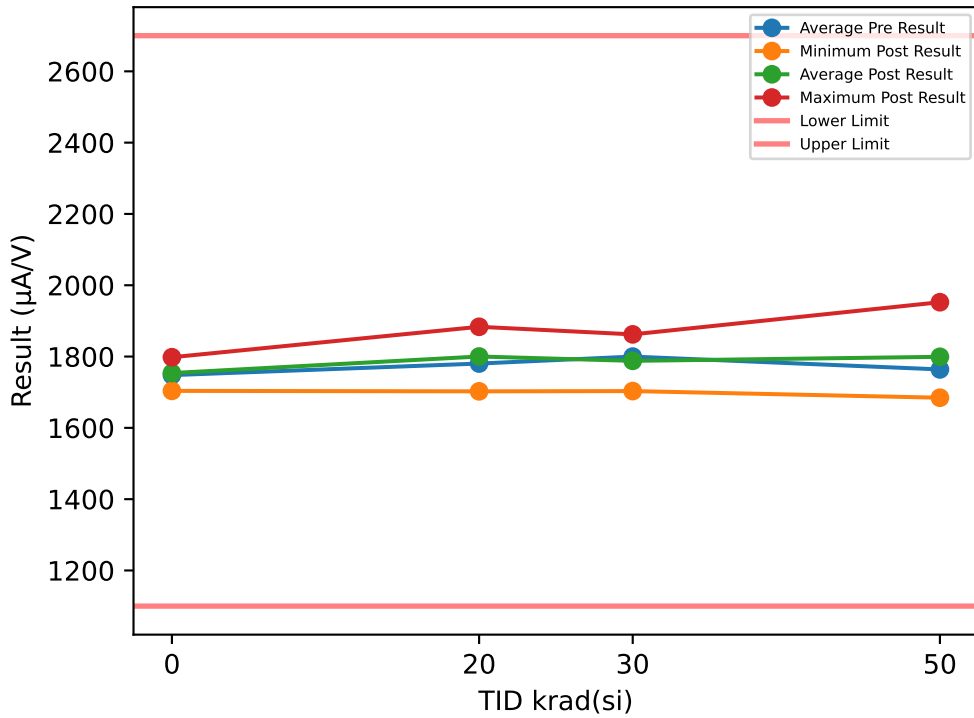
Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6104	2.7132	2.7906	0.092746	2.6095	2.7125	2.7907	0.093098	-0.0014	-0.00073333	0.0001	0.00076376
20	2.702	2.7753	2.9001	0.070157	2.6668	2.7795	2.8826	0.07175	-0.0419	0.00422	0.0393	0.028175
30	2.6687	2.7405	2.874	0.061785	2.6479	2.7377	2.8251	0.063432	-0.0489	-0.0028	0.046	0.029035
50	2.6472	2.7671	2.9367	0.086059	2.6323	2.7761	2.9497	0.1011	-0.032	0.00906	0.0649	0.032857



# Device Test: 19.1 LEVEL|TRANSCONDUCTANCE//4.5/4.5/0/0/4.5/500kHz//@EA\_GM

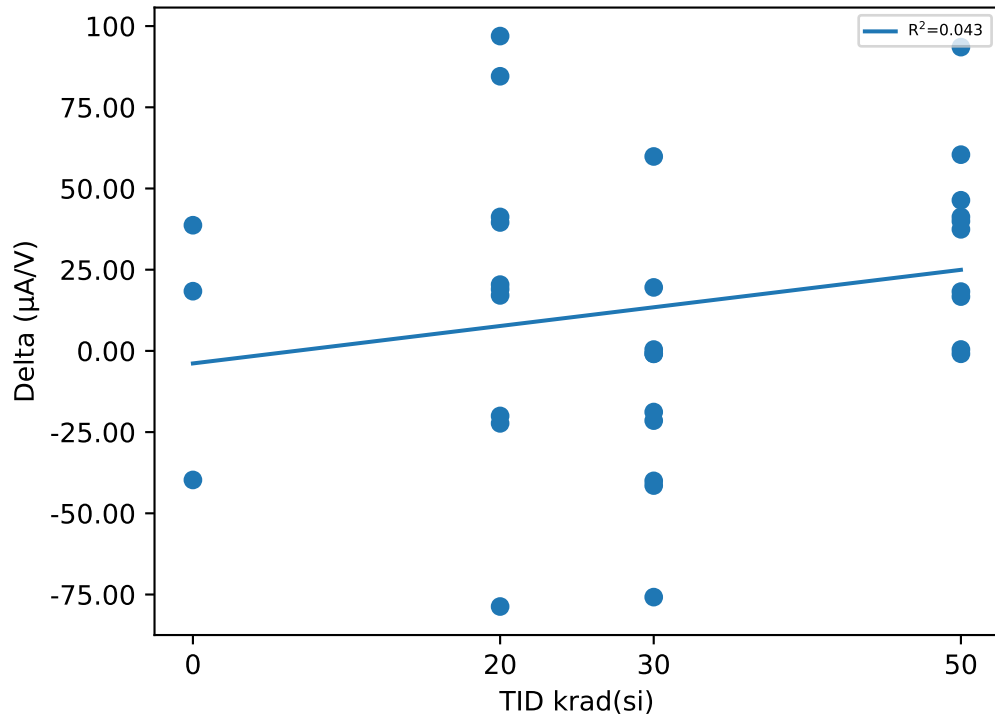
### TID vs Result Stats



### Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1721.6	1818.5	96.923
22	20	HDR BIAS	1740.3	1759.3	19.024
23	20	HDR BIAS	1779	1799.4	20.407
24	20	HDR BIAS	1779	1818.5	39.539
25	20	HDR BIAS	1798.9	1840.2	41.247
26	20	HDR UNBIAS	1819.5	1799.4	-20.022
27	20	HDR UNBIAS	1861.7	1839.4	-22.31
28	20	HDR UNBIAS	1798.9	1883.5	84.548
29	20	HDR UNBIAS	1819.5	1740.8	-78.694
30	20	HDR UNBIAS	1685.3	1702.4	17.085
31	30	HDR BIAS	1840.3	1798.8	-41.455
32	30	HDR BIAS	1819.5	1779.4	-40.014
33	30	HDR BIAS	1799	1818.5	19.548
34	30	HDR BIAS	1759.4	1819.3	59.858
35	30	HDR BIAS	1883.7	1862.2	-21.462
36	30	HDR UNBIAS	1799	1798.1	-0.8869
37	30	HDR UNBIAS	1778.9	1703.1	-75.803
38	30	HDR UNBIAS	1759.5	1759.9	0.4153
39	30	HDR UNBIAS	1819.4	1818.5	-0.8973
40	30	HDR UNBIAS	1740.3	1721.4	-18.821
41	50	HDR BIAS	1703.3	1740.8	37.432
42	50	HDR BIAS	1799	1798.1	-0.8869
43	50	HDR BIAS	1685.3	1778.8	93.525
44	50	HDR BIAS	1759.5	1799.4	39.96
45	50	HDR BIAS	1740.3	1758.6	18.26
46	50	HDR UNBIAS	1798.9	1840.2	41.248
47	50	HDR UNBIAS	1759.5	1819.9	60.416
48	50	HDR UNBIAS	1667.8	1684.5	16.72
49	50	HDR UNBIAS	1906	1952.4	46.379
50	50	HDR UNBIAS	1819.5	1819.9	0.4342
71	0	CORRELATION	1799	1759.3	-39.729
72	0	CORRELATION	1685.3	1703.7	18.381
73	0	CORRELATION	1759.4	1798.1	38.693

### TID vs Post - Pre Exposure Delta

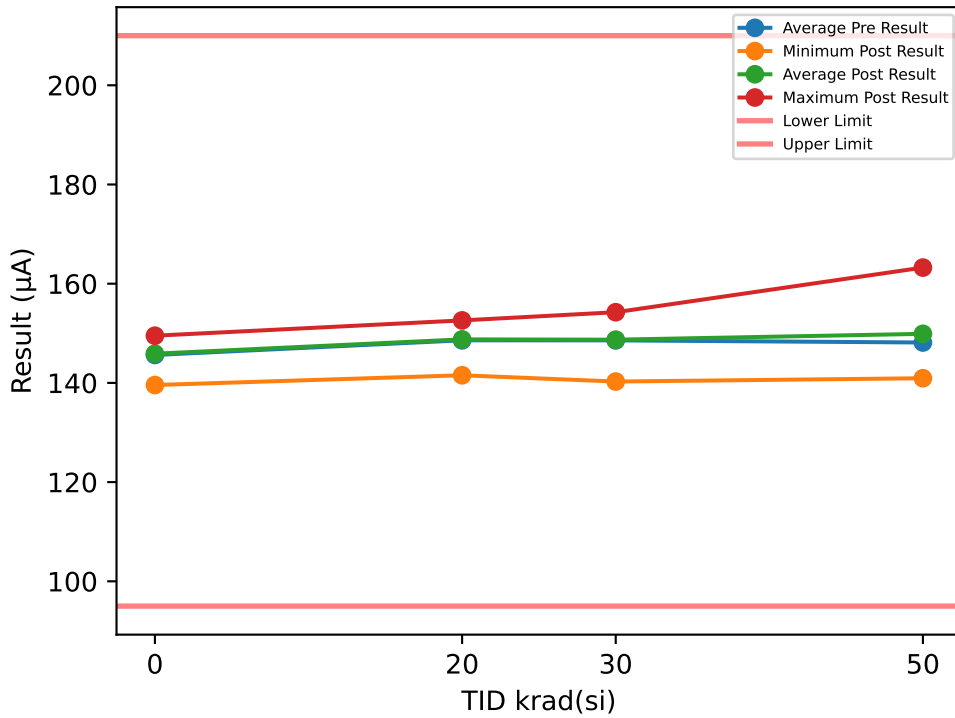


### Test Statistics (µA/V)

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	1685.3	1747.9	1799	57.694	1703.7	1753.7	1798.1	47.425	-39.729	5.7817	38.693	40.701
20	1685.3	1780.4	1861.7	52.132	1702.4	1800.1	1883.5	53.236	-78.694	19.775	96.923	51.702
30	1740.3	1799.9	1883.7	43.054	1703.1	1787.9	1862.2	48.371	-75.803	-11.952	59.858	37.147
50	1667.8	1763.9	1906	71.036	1684.5	1799.3	1952.4	70.424	-0.8869	35.349	93.525	28.608

# Device Test: 19.10 CURRENT|EA\_SOURCE//12/12/0/0/5/500kHz//@EA\_I\_SOURCE

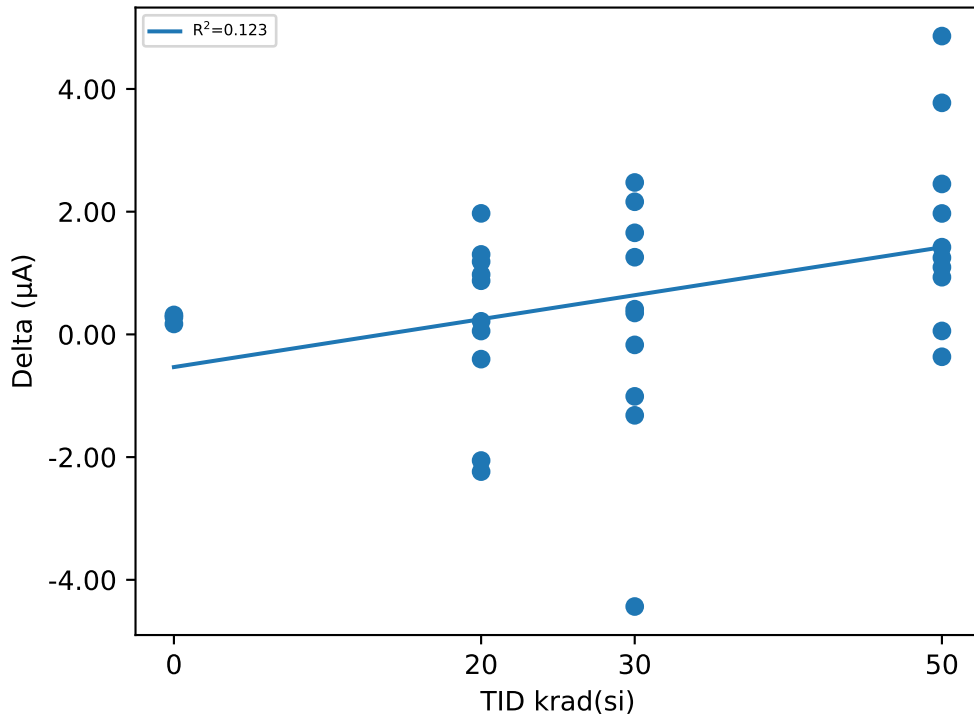
### TID vs Result Stats



### Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	144.4	146.38	1.9724
22	20	HDR BIAS	145.92	147.22	1.3036
23	20	HDR BIAS	148.18	149.37	1.1856
24	20	HDR BIAS	151.06	148.83	-2.2363
25	20	HDR BIAS	152.56	152.15	-0.4032
26	20	HDR UNBIAS	149.5	147.44	-2.0555
27	20	HDR UNBIAS	151.72	152.6	0.8745
28	20	HDR UNBIAS	151.12	152.09	0.9749
29	20	HDR UNBIAS	149.91	150.12	0.2134
30	20	HDR UNBIAS	141.48	141.54	0.0549
31	30	HDR BIAS	149.61	148.6	-1.01
32	30	HDR BIAS	153.4	153.81	0.411
33	30	HDR BIAS	148.39	150.56	2.1619
34	30	HDR BIAS	147.86	149.51	1.6556
35	30	HDR BIAS	153.9	154.25	0.3493
36	30	HDR UNBIAS	148.24	150.71	2.4761
37	30	HDR UNBIAS	141.5	142.76	1.2578
38	30	HDR UNBIAS	147.36	147.19	-0.1709
39	30	HDR UNBIAS	153.89	149.46	-4.435
40	30	HDR UNBIAS	141.59	140.27	-1.319
41	50	HDR BIAS	141.74	143.16	1.4216
42	50	HDR BIAS	152.6	153.7	1.0947
43	50	HDR BIAS	145.13	144.77	-0.3646
44	50	HDR BIAS	149	150.25	1.2506
45	50	HDR BIAS	147.17	147.23	0.0564
46	50	HDR UNBIAS	148.11	152.97	4.862
47	50	HDR UNBIAS	147.55	148.48	0.932
48	50	HDR UNBIAS	138.97	140.94	1.9711
49	50	HDR UNBIAS	160.8	163.25	2.4521
50	50	HDR UNBIAS	150.38	154.15	3.7739
71	0	CORRELATION	149.34	149.51	0.1704
72	0	CORRELATION	139.25	139.57	0.3173
73	0	CORRELATION	148.3	148.58	0.2799

### TID vs Post - Pre Exposure Delta

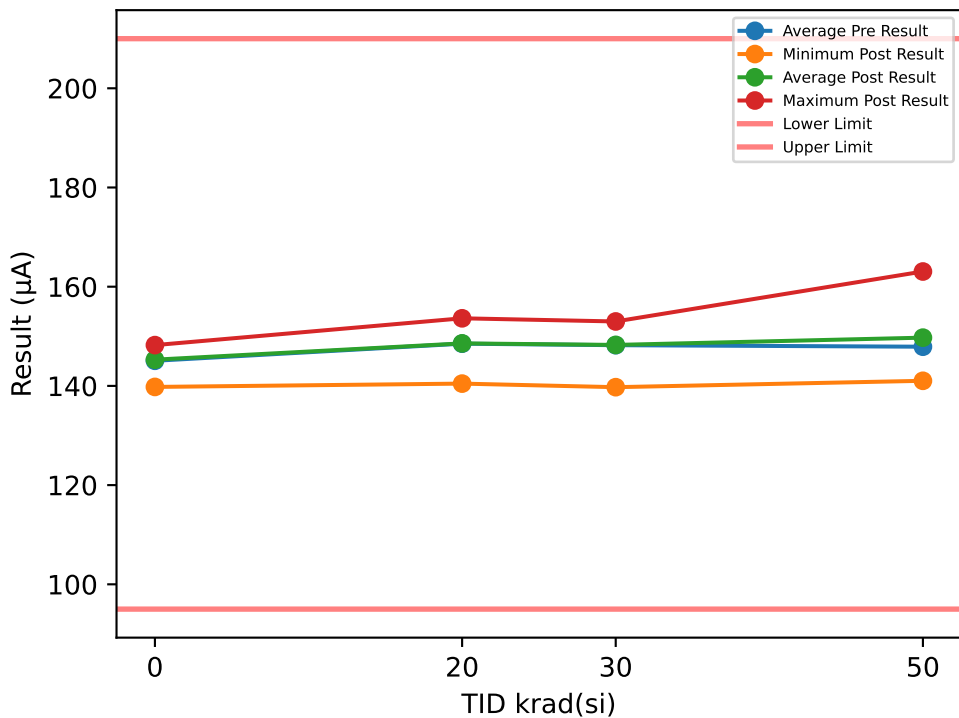


### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	139.25	145.63	149.34	5.5483	139.57	145.89	149.51	5.4904	0.1704	0.25587	0.3173	0.076342
20	141.48	148.59	152.56	3.5896	141.54	148.77	152.6	3.3583	-2.2363	0.18843	1.9724	1.406
30	141.5	148.57	153.9	4.4954	140.27	148.71	154.25	4.3995	-4.435	0.13768	2.4761	2.0463
50	138.97	148.15	160.8	5.9742	140.94	149.89	163.25	6.5097	-0.3646	1.745	4.862	1.6027

# Device Test: 19.11 CURRENT|EA\_SINK//12/12/0/0/5/500kHz//@EA\_I\_SINK

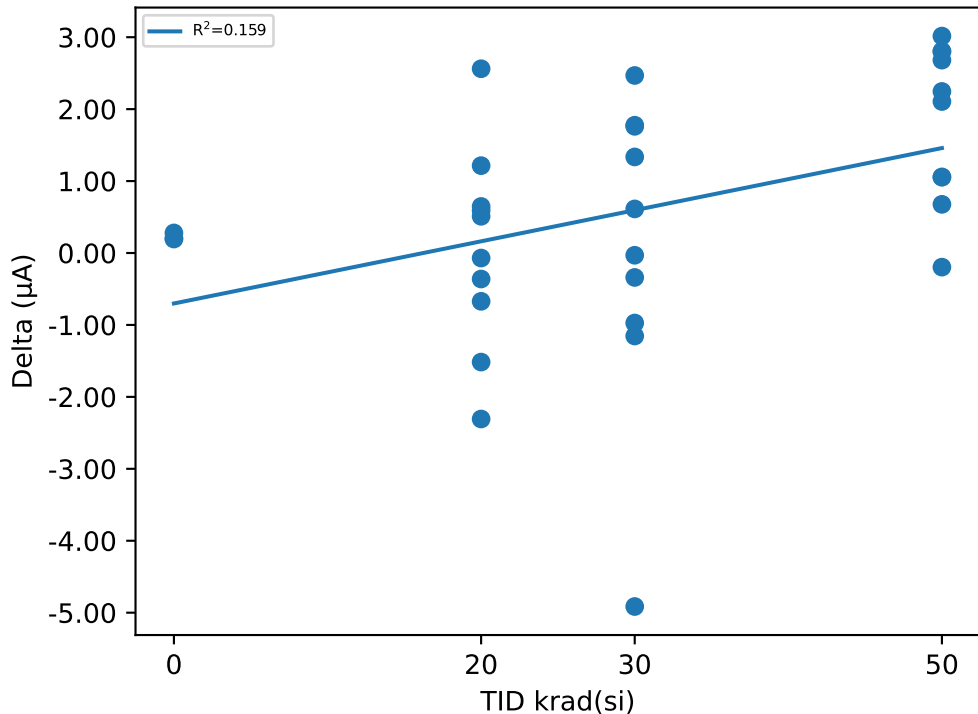
### TID vs Result Stats



### Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	144.72	147.28	2.5615
22	20	HDR BIAS	145.78	146.37	0.5908
23	20	HDR BIAS	146.96	148.17	1.2144
24	20	HDR BIAS	149.24	146.94	-2.3075
25	20	HDR BIAS	153.77	153.10	-0.6716
26	20	HDR UNBIAS	150.98	149.46	-1.5161
27	20	HDR UNBIAS	152.98	153.63	0.647
28	20	HDR UNBIAS	150.01	150.52	0.5104
29	20	HDR UNBIAS	149.85	149.78	-0.0699
30	20	HDR UNBIAS	140.82	140.46	-0.3615
31	30	HDR BIAS	149.57	149.23	-0.3397
32	30	HDR BIAS	152.74	152.71	-0.0312
33	30	HDR BIAS	147.48	149.95	2.468
34	30	HDR BIAS	148.01	149.77	1.7609
35	30	HDR BIAS	153.96	152.99	-0.9731
36	30	HDR UNBIAS	146.45	148.22	1.7764
37	30	HDR UNBIAS	142.87	144.21	1.3356
38	30	HDR UNBIAS	145.76	146.38	0.6129
39	30	HDR UNBIAS	154.33	149.42	-4.9142
40	30	HDR UNBIAS	140.90	139.74	-1.1537
41	50	HDR BIAS	140.96	143.76	2.806
42	50	HDR BIAS	152.32	153.38	1.0552
43	50	HDR BIAS	145.31	145.12	-0.1964
44	50	HDR BIAS	150.82	152.93	2.106
45	50	HDR BIAS	145.79	146.46	0.6766
46	50	HDR UNBIAS	147.25	150.27	3.0156
47	50	HDR UNBIAS	146.61	147.67	1.0561
48	50	HDR UNBIAS	138.78	141.03	2.2458
49	50	HDR UNBIAS	160.38	163.06	2.6812
50	50	HDR UNBIAS	150.79	153.59	2.7988
71	0	CORRELATION	147.65	147.85	0.202
72	0	CORRELATION	139.60	139.79	0.1943
73	0	CORRELATION	147.94	148.22	0.279

### TID vs Post - Pre Exposure Delta

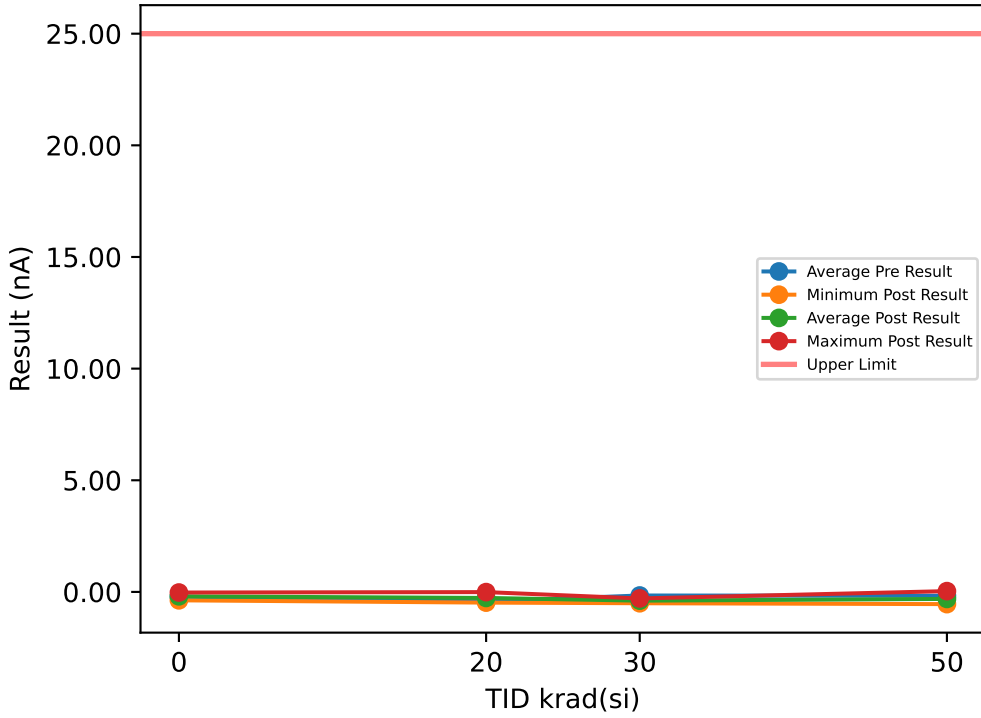


### Test Statistics (µA)

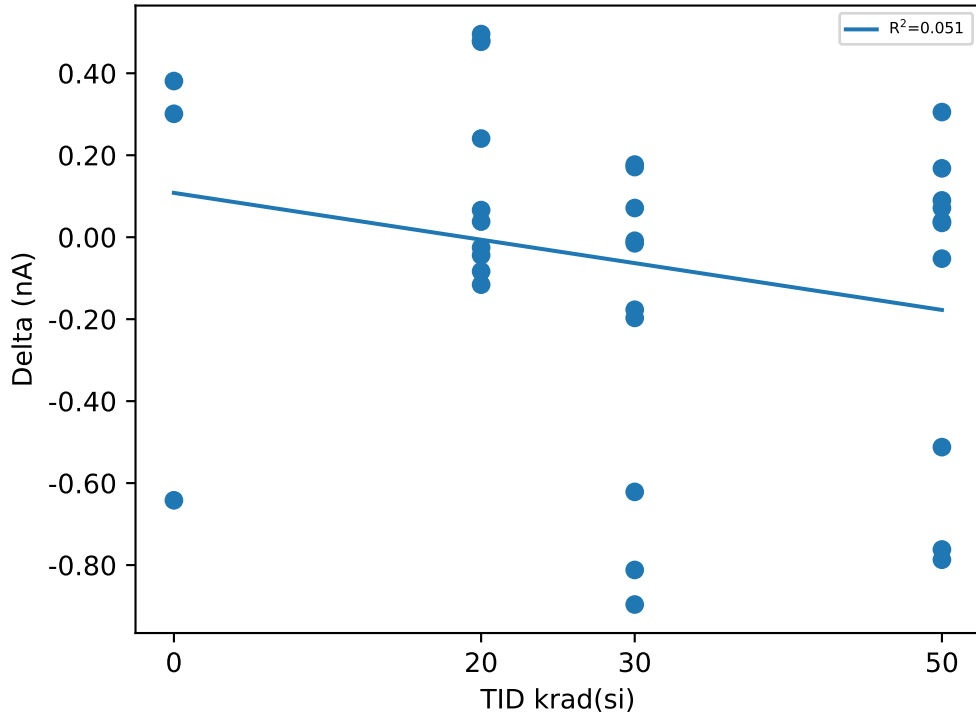
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	139.6	145.06	147.94	4.7352	139.79	145.29	148.22	4.7632	0.1943	0.2251	0.279	0.046837
20	140.82	148.51	153.77	3.967	140.46	148.57	153.63	3.7596	-2.3075	0.05975	2.5615	1.384
30	140.9	148.21	154.33	4.5293	139.74	148.26	152.99	3.9739	-4.9142	0.05419	2.468	2.1349
50	138.78	147.9	160.38	6.1172	141.03	149.73	163.06	6.3595	-0.1964	1.8245	3.0156	1.1008

# Device Test: 19.12 CURRENT|EA//12/12/0/0/5/500kHz//@EA\_IB

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



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

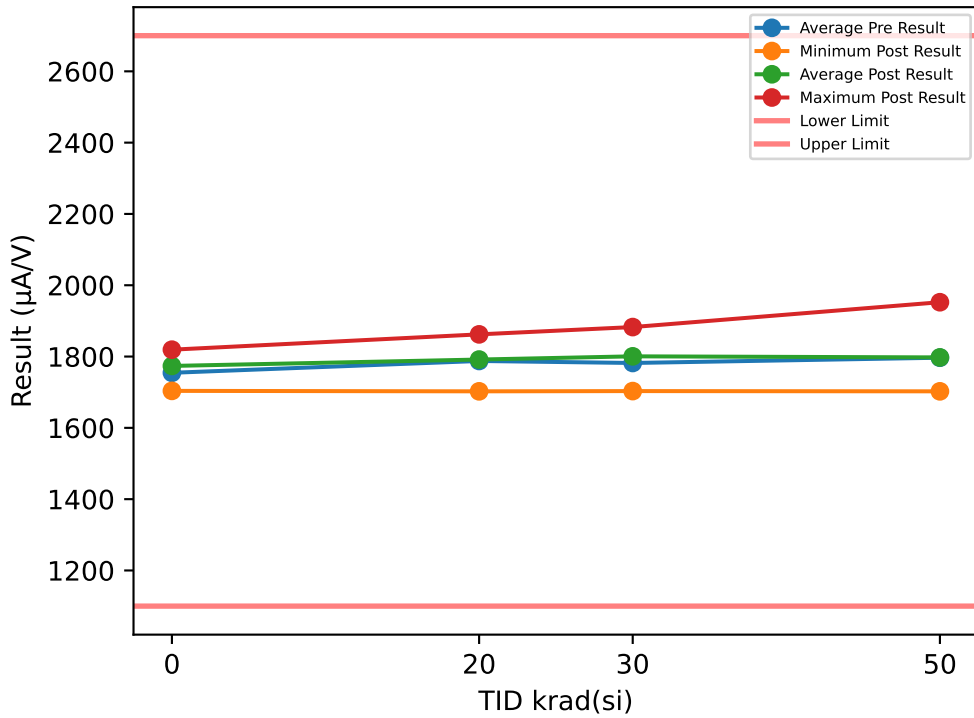
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.3956	-0.479	-0.0834
22	20	HDR BIAS	-0.0589	-0.1747	-0.1158
23	20	HDR BIAS	-0.4852	-0.0083	0.4769
24	20	HDR BIAS	-0.4486	-0.4105	0.0381
25	20	HDR BIAS	-0.268	-0.312	-0.044
26	20	HDR UNBIAS	-0.6475	-0.1675	0.48
27	20	HDR UNBIAS	-0.5298	-0.2891	0.2407
28	20	HDR UNBIAS	-0.268	-0.2933	-0.0253
29	20	HDR UNBIAS	-0.6319	-0.1363	0.4956
30	20	HDR UNBIAS	-0.4923	-0.4261	0.0662
31	30	HDR BIAS	-0.2431	-0.44	-0.1969
32	30	HDR BIAS	-0.5351	-0.3579	0.1772
33	30	HDR BIAS	-0.33	-0.507	-0.177
34	30	HDR BIAS	0.2657	-0.3557	-0.6214
35	30	HDR BIAS	-0.3635	-0.2923	0.0712
36	30	HDR UNBIAS	-0.4205	-0.4354	-0.0149
37	30	HDR UNBIAS	0.3875	-0.4244	-0.8119
38	30	HDR UNBIAS	-0.4759	-0.3048	0.1711
39	30	HDR UNBIAS	-0.4174	-0.4261	-0.0087
40	30	HDR UNBIAS	0.5342	-0.362	-0.8962
41	50	HDR BIAS	-0.4291	-0.2611	0.168
42	50	HDR BIAS	-0.4674	-0.4292	0.0382
43	50	HDR BIAS	-0.0339	-0.5461	-0.5122
44	50	HDR BIAS	-0.532	-0.4422	0.0898
45	50	HDR BIAS	-0.4174	-0.3825	0.0349
46	50	HDR UNBIAS	0.5716	-0.1903	-0.7619
47	50	HDR UNBIAS	-0.2699	0.0354	0.3053
48	50	HDR UNBIAS	-0.3706	-0.4229	-0.0523
49	50	HDR UNBIAS	0.4593	-0.3276	-0.7869
50	50	HDR UNBIAS	-0.2418	-0.1706	0.0712
71	0	CORRELATION	-0.4883	-0.1872	0.3011
72	0	CORRELATION	-0.408	-0.027	0.381
73	0	CORRELATION	0.2657	-0.3762	-0.6419

## 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	-0.4883	-0.2102	0.2657	0.41409	-0.3762	-0.1968	-0.027	0.1748	-0.6419	0.0134	0.381	0.56891
20	-0.6475	-0.42258	-0.0589	0.1814	-0.479	-0.26968	-0.0083	0.14773	-0.1158	0.1529	0.4956	0.24864
30	-0.5351	-0.15981	0.5342	0.39647	-0.507	-0.39056	-0.2923	0.067106	-0.8962	-0.23075	0.1772	0.40169
50	-0.532	-0.17312	0.5716	0.38982	-0.5461	-0.31371	0.0354	0.17031	-0.7869	-0.14059	0.3053	0.39502

# Device Test: 19.13 LEVEL|TRANSCONDUCTANCE//14/14/0/0/5/500kHz//@EA\_GM

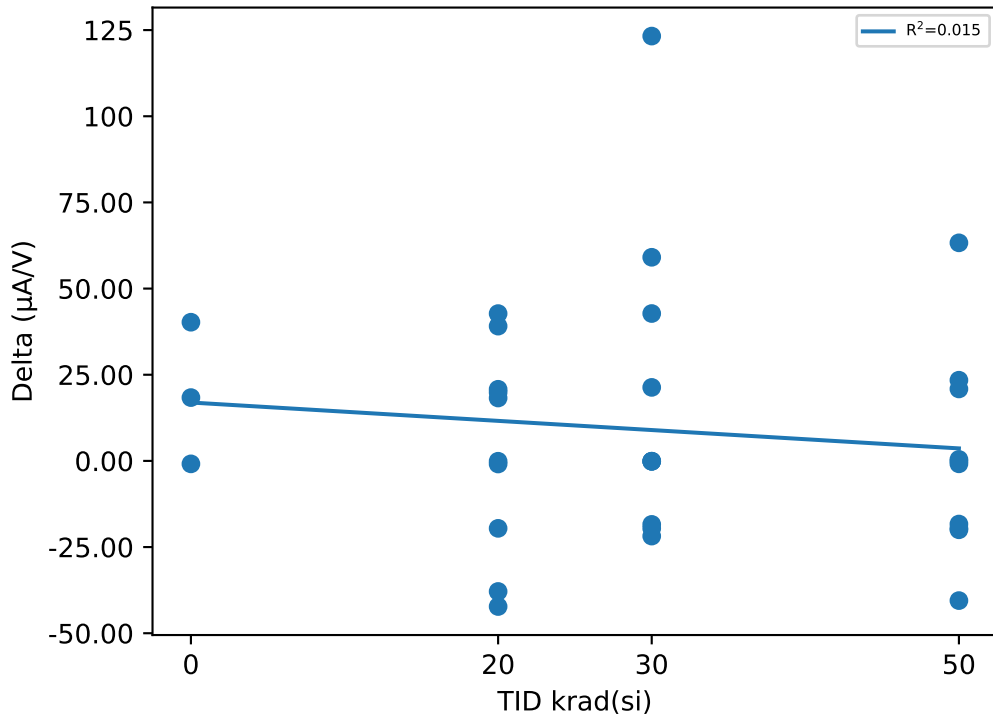
### TID vs Result Stats



### Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1740.3	1758.6	18.251
22	20	HDR BIAS	1778.9	1798.8	19.894
23	20	HDR BIAS	1740.3	1779.4	39.105
24	20	HDR BIAS	1799	1798.1	-0.8965
25	20	HDR BIAS	1819.4	1840.2	20.784
26	20	HDR UNBIAS	1799	1779.4	-19.567
27	20	HDR UNBIAS	1840.3	1798.1	-42.248
28	20	HDR UNBIAS	1798.9	1798.8	-0.0965
29	20	HDR UNBIAS	1819.5	1862.2	42.744
30	20	HDR UNBIAS	1740.3	1702.4	-37.88
31	30	HDR BIAS	1798.9	1798.8	-0.0868
32	30	HDR BIAS	1819.5	1840.8	21.331
33	30	HDR BIAS	1759.4	1882.7	123.26
34	30	HDR BIAS	1798.9	1798.8	-0.1061
35	30	HDR BIAS	1819.4	1862.2	42.763
36	30	HDR UNBIAS	1759.4	1818.5	59.081
37	30	HDR UNBIAS	1721.6	1703.1	-18.42
38	30	HDR UNBIAS	1799	1779.4	-19.577
39	30	HDR UNBIAS	1840.3	1818.5	-21.813
40	30	HDR UNBIAS	1703.2	1703.1	-0.0951
41	50	HDR BIAS	1740.4	1722	-18.319
42	50	HDR BIAS	1819.4	1882.7	63.272
43	50	HDR BIAS	1778.9	1778.8	-0.1038
44	50	HDR BIAS	1819.4	1819.9	0.4342
45	50	HDR BIAS	1759.4	1739.4	-19.984
46	50	HDR UNBIAS	1819.4	1778.8	-40.528
47	50	HDR UNBIAS	1799	1779.5	-19.568
48	50	HDR UNBIAS	1703.3	1702.4	-0.8469
49	50	HDR UNBIAS	1929	1952.4	23.413
50	50	HDR UNBIAS	1799	1819.9	20.881
71	0	CORRELATION	1779	1819.3	40.241
72	0	CORRELATION	1685.3	1703.7	18.373
73	0	CORRELATION	1798.9	1798.1	-0.858

### TID vs Post - Pre Exposure Delta

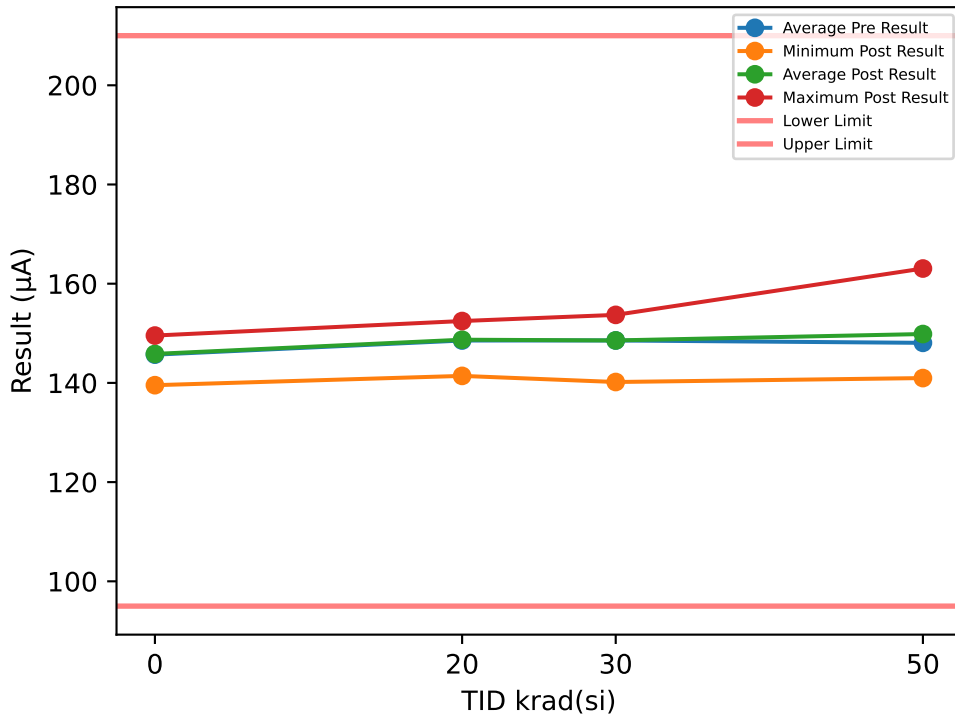


### Test Statistics (µA/V)

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	1685.3	1754.4	1798.9	60.653	1703.7	1773.7	1819.3	61.51	-0.858	19.252	40.241	20.564
20	1740.3	1787.6	1840.3	36.476	1702.4	1791.6	1862.2	43.296	-42.248	4.0088	42.744	29.739
30	1703.2	1782	1840.3	44.655	1703.1	1800.6	1882.7	59.856	-21.813	18.634	123.26	45.575
50	1703.3	1796.7	1929	60.237	1702.4	1797.6	1952.4	75.55	-40.528	0.86504	63.272	29.328

# Device Test: 19.14 CURRENT|EA\_SOURCE//14/14/0/0/5/500kHz//@EA\_I\_SOURCE

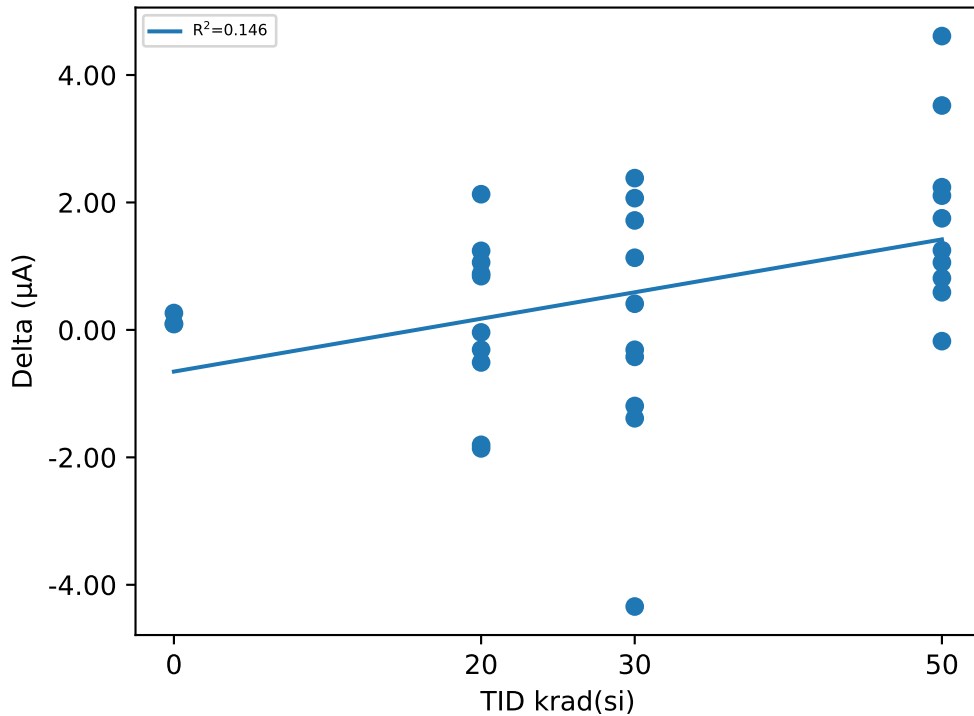
### TID vs Result Stats



### Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	144.22	146.35	2.1294
22	20	HDR BIAS	145.98	147.22	1.2409
23	20	HDR BIAS	148.21	149.27	1.0597
24	20	HDR BIAS	150.88	149.02	-1.8593
25	20	HDR BIAS	152.31	152	-0.3097
26	20	HDR UNBIAS	149.5	147.7	-1.8035
27	20	HDR UNBIAS	151.63	152.47	0.8431
28	20	HDR UNBIAS	151.24	152.12	0.881
29	20	HDR UNBIAS	150.03	149.52	-0.5108
30	20	HDR UNBIAS	141.45	141.41	-0.0392
31	30	HDR BIAS	149.68	148.29	-1.3868
32	30	HDR BIAS	153.3	153.71	0.4109
33	30	HDR BIAS	148.39	150.46	2.0676
34	30	HDR BIAS	147.7	149.42	1.718
35	30	HDR BIAS	154.03	153.71	-0.3118
36	30	HDR UNBIAS	148.46	150.84	2.3819
37	30	HDR UNBIAS	141.59	142.73	1.1323
38	30	HDR UNBIAS	147.27	146.85	-0.4231
39	30	HDR UNBIAS	153.77	149.43	-4.3408
40	30	HDR UNBIAS	141.37	140.18	-1.194
41	50	HDR BIAS	141.27	143.51	2.2395
42	50	HDR BIAS	152.92	153.73	0.8119
43	50	HDR BIAS	145.04	144.86	-0.1763
44	50	HDR BIAS	148.78	150.03	1.2501
45	50	HDR BIAS	146.6	147.19	0.5905
46	50	HDR UNBIAS	148.23	152.85	4.611
47	50	HDR UNBIAS	147.49	148.55	1.0579
48	50	HDR UNBIAS	139.22	140.97	1.7512
49	50	HDR UNBIAS	160.95	163.06	2.107
50	50	HDR UNBIAS	150.25	153.78	3.5216
71	0	CORRELATION	149.28	149.55	0.2648
72	0	CORRELATION	139.44	139.54	0.0973
73	0	CORRELATION	148.36	148.45	0.0915

### TID vs Post - Pre Exposure Delta

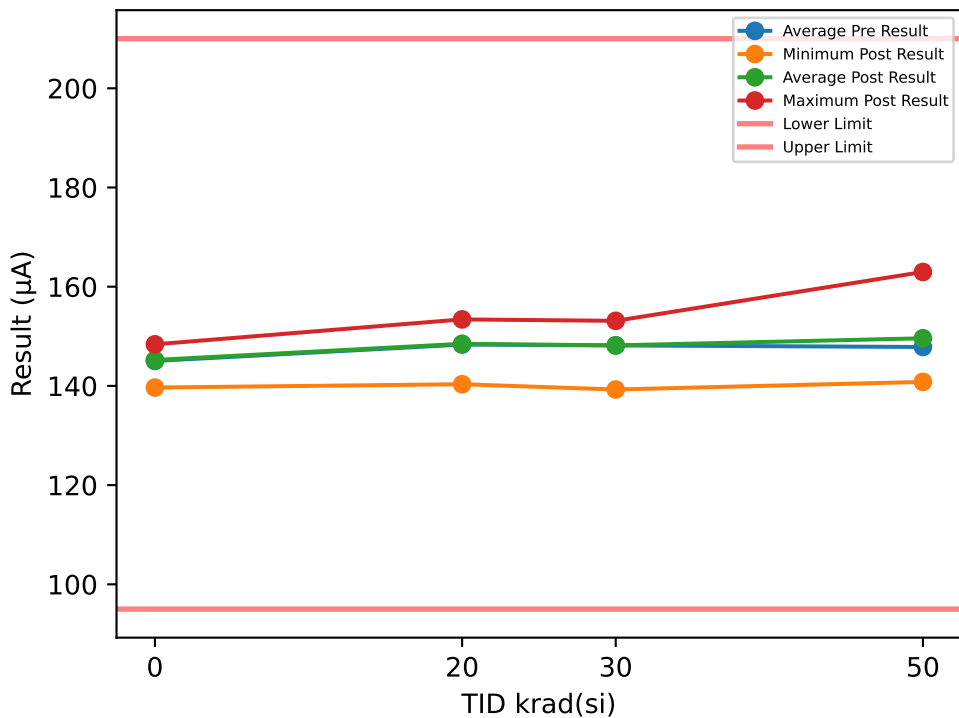


### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	139.44	145.69	149.28	5.4342	139.54	145.84	149.55	5.4887	0.0915	0.1512	0.2648	0.098423
20	141.45	148.54	152.31	3.5784	141.41	148.71	152.47	3.3294	-1.8593	0.16316	2.1294	1.3117
30	141.37	148.56	154.03	4.5132	140.18	148.56	153.71	4.3549	-4.3408	0.00542	2.3819	2.0226
50	139.22	148.08	160.95	6.0643	140.97	149.85	163.06	6.3823	-0.1763	1.7764	4.611	1.4278

Device Test: 19.15 CURRENT|EA\_SINK//14/14/0/0/5/500kHz//@EA\_I\_SINK

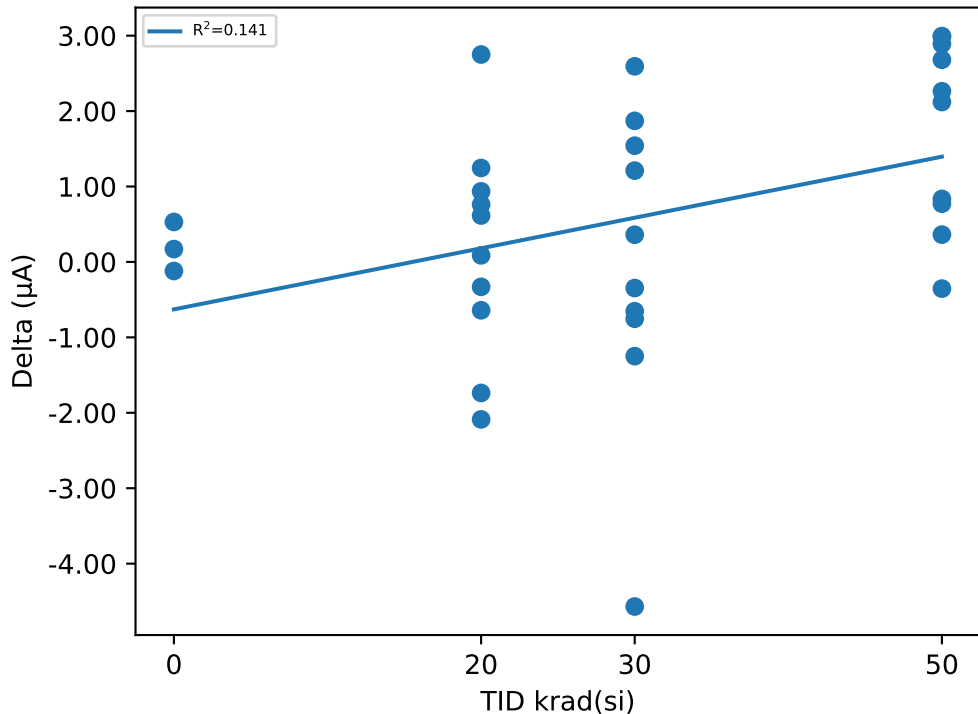
TID vs Result Stats



Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	144.56	147.31	2.75
22	20	HDR BIAS	145.56	146.5	0.9358
23	20	HDR BIAS	146.86	148.11	1.2457
24	20	HDR BIAS	149.09	147	-2.0876
25	20	HDR BIAS	153.49	152.85	-0.6411
26	20	HDR UNBIAS	150.82	149.09	-1.7369
27	20	HDR UNBIAS	152.79	153.41	0.6155
28	20	HDR UNBIAS	149.73	150.49	0.7608
29	20	HDR UNBIAS	149.72	149.81	0.0873
30	20	HDR UNBIAS	140.67	140.34	-0.3301
31	30	HDR BIAS	149.7	149.04	-0.6535
32	30	HDR BIAS	152.8	152.46	-0.3461
33	30	HDR BIAS	147.23	149.83	2.5936
34	30	HDR BIAS	148.23	149.77	1.5416
35	30	HDR BIAS	153.87	153.12	-0.7529
36	30	HDR UNBIAS	146.16	148.03	1.8706
37	30	HDR UNBIAS	143.15	144.36	1.2108
38	30	HDR UNBIAS	145.79	146.16	0.361
39	30	HDR UNBIAS	154.17	149.61	-4.5685
40	30	HDR UNBIAS	140.52	139.27	-1.2491
41	50	HDR BIAS	140.77	143.76	2.9945
42	50	HDR BIAS	152.6	153.38	0.7725
43	50	HDR BIAS	145.25	144.9	-0.3537
44	50	HDR BIAS	150.66	152.93	2.2631
45	50	HDR BIAS	145.88	146.24	0.3623
46	50	HDR UNBIAS	147.32	150.21	2.89
47	50	HDR UNBIAS	146.55	147.38	0.8354
48	50	HDR UNBIAS	138.69	140.81	2.1202
49	50	HDR UNBIAS	160.29	162.97	2.6808
50	50	HDR UNBIAS	150.45	153.43	2.9869
71	0	CORRELATION	147.46	147.63	0.1706
72	0	CORRELATION	139.79	139.67	-0.1202
73	0	CORRELATION	147.85	148.38	0.5301

TID vs Post - Pre Exposure Delta



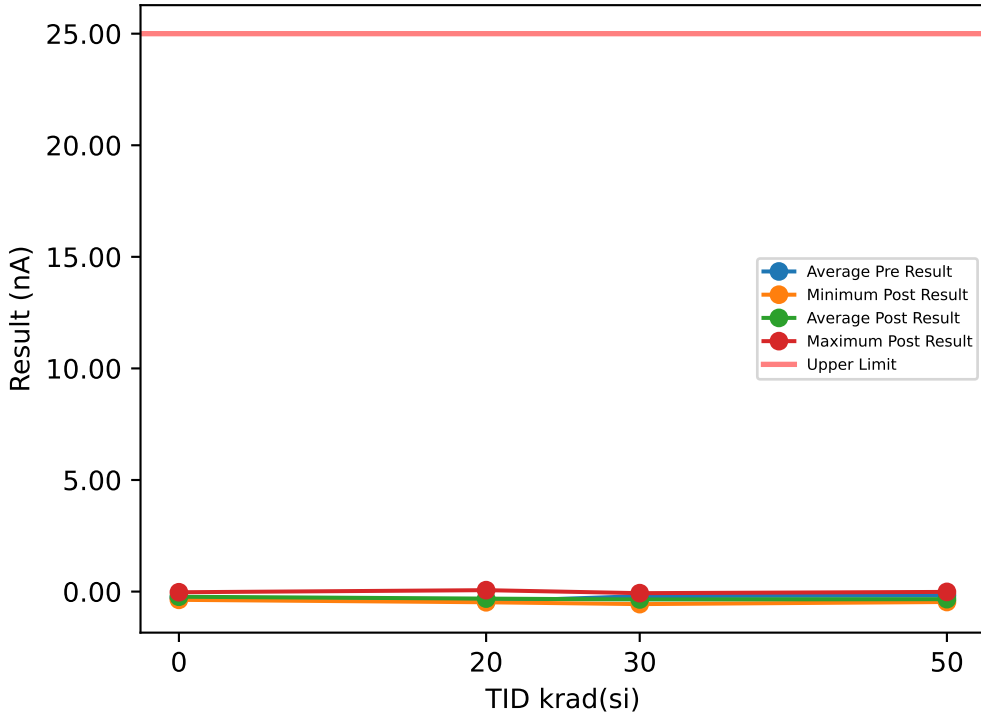
Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	139.79	145.03	147.85	4.5467	139.67	145.23	148.38	4.8287	-0.1202	0.1935	0.5301	0.32575
20	140.67	148.33	153.49	3.9431	140.34	148.49	153.41	3.7039	-2.0876	0.15994	2.75	1.4374
30	140.52	148.16	154.17	4.5532	139.27	148.16	153.12	4.0651	-4.5685	0.00075	2.5936	2.0479
50	138.69	147.85	160.29	6.134	140.81	149.6	162.97	6.4009	-0.3537	1.7552	2.9945	1.2377



# Device Test: 19.16 CURRENT|EA//14/14/0/0/5/500kHz//@EA\_IB

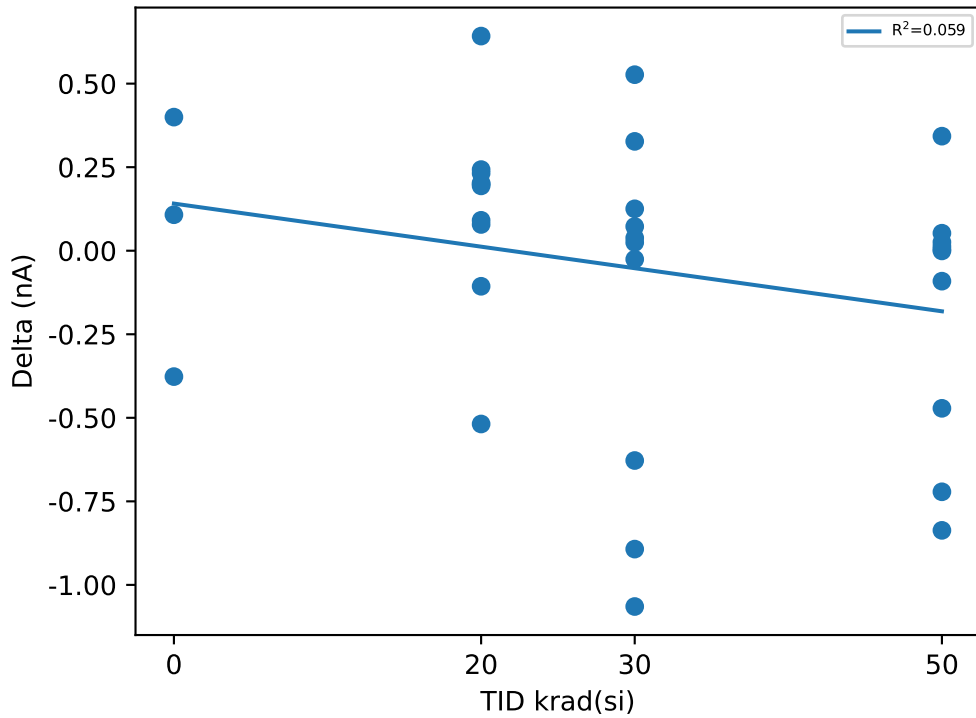
## TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.5579	-0.3264	0.2315
22	20	HDR BIAS	0.1253	-0.3932	-0.5185
23	20	HDR BIAS	-0.6038	-0.361	0.2428
24	20	HDR BIAS	-0.4268	-0.3482	0.0786
25	20	HDR BIAS	-0.3648	-0.4712	-0.1064
26	20	HDR UNBIAS	-0.6787	-0.4796	0.1991
27	20	HDR UNBIAS	-0.4955	-0.3015	0.194
28	20	HDR UNBIAS	-0.396	-0.1934	0.2026
29	20	HDR UNBIAS	-0.5788	0.0635	0.6423
30	20	HDR UNBIAS	-0.4237	-0.3327	0.091
31	30	HDR BIAS	-0.3086	-0.2839	0.0247
32	30	HDR BIAS	-0.7317	-0.2049	0.5268
33	30	HDR BIAS	-0.4986	-0.4603	0.0383
34	30	HDR BIAS	0.3843	-0.5086	-0.8929
35	30	HDR BIAS	-0.4384	-0.464	-0.0256
36	30	HDR UNBIAS	-0.4923	-0.3669	0.1254
37	30	HDR UNBIAS	0.4156	-0.2122	-0.6278
38	30	HDR UNBIAS	-0.3979	-0.0707	0.3272
39	30	HDR UNBIAS	-0.4705	-0.398	0.0725
40	30	HDR UNBIAS	0.503	-0.5617	-1.0647
41	50	HDR BIAS	-0.376	-0.4671	-0.0911
42	50	HDR BIAS	-0.4237	-0.4105	0.0132
43	50	HDR BIAS	0.0067	-0.4649	-0.4716
44	50	HDR BIAS	-0.454	-0.4016	0.0524
45	50	HDR BIAS	-0.4205	-0.4167	0.0038
46	50	HDR UNBIAS	0.4686	-0.3682	-0.8368
47	50	HDR UNBIAS	-0.3323	-0.3329	-0.0006
48	50	HDR UNBIAS	-0.4143	-0.3887	0.0256
49	50	HDR UNBIAS	0.5935	-0.1279	-0.7214
50	50	HDR UNBIAS	-0.3573	-0.0145	0.3428
71	0	CORRELATION	-0.401	-0.2933	0.1077
72	0	CORRELATION	-0.4299	-0.0301	0.3998
73	0	CORRELATION	0.0067	-0.37	-0.3767

## TID vs Post - Pre Exposure Delta

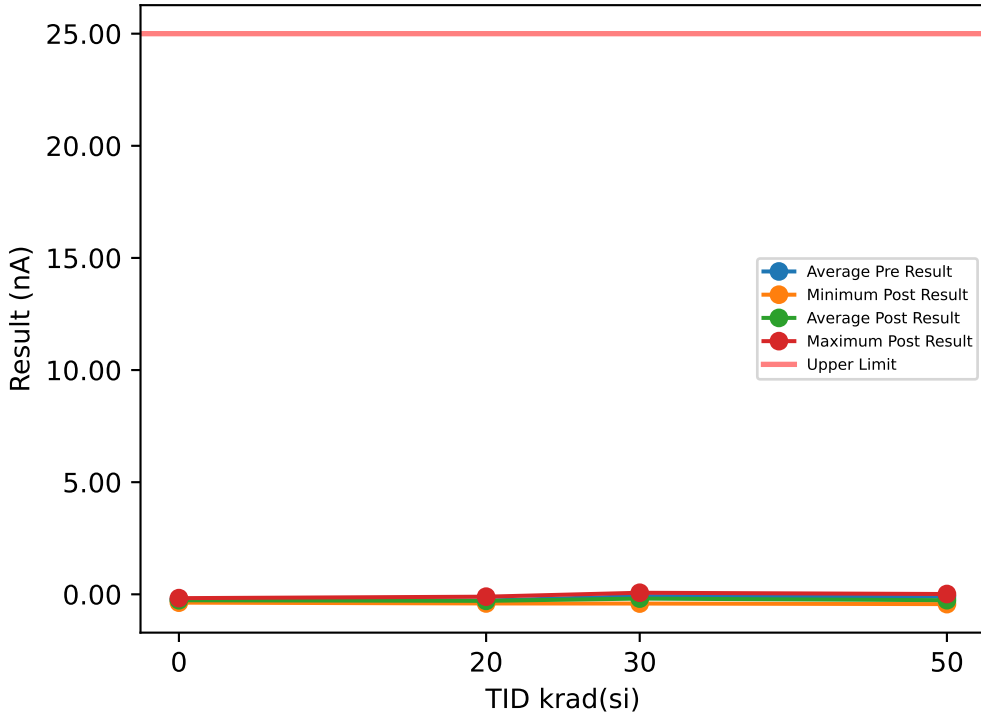


## Test Statistics (nA)

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	-0.4299	-0.27473	0.0067	0.24416	-0.37	-0.23113	-0.0301	0.17827	-0.3767	0.0436	0.3998	0.3922
20	-0.6787	-0.44007	0.1253	0.22302	-0.4796	-0.31437	0.0635	0.15617	-0.5185	0.1257	0.6423	0.2944
30	-0.7317	-0.20351	0.503	0.45372	-0.5617	-0.35312	-0.0707	0.15636	-1.0647	-0.14961	0.5268	0.52804
50	-0.454	-0.17093	0.5935	0.39346	-0.4671	-0.3393	-0.0145	0.14928	-0.8368	-0.16837	0.3428	0.37844

# Device Test: 19.17 CURRENT|EA//4.5/4.5/0/0/4.5/100kHz//@EA\_IB

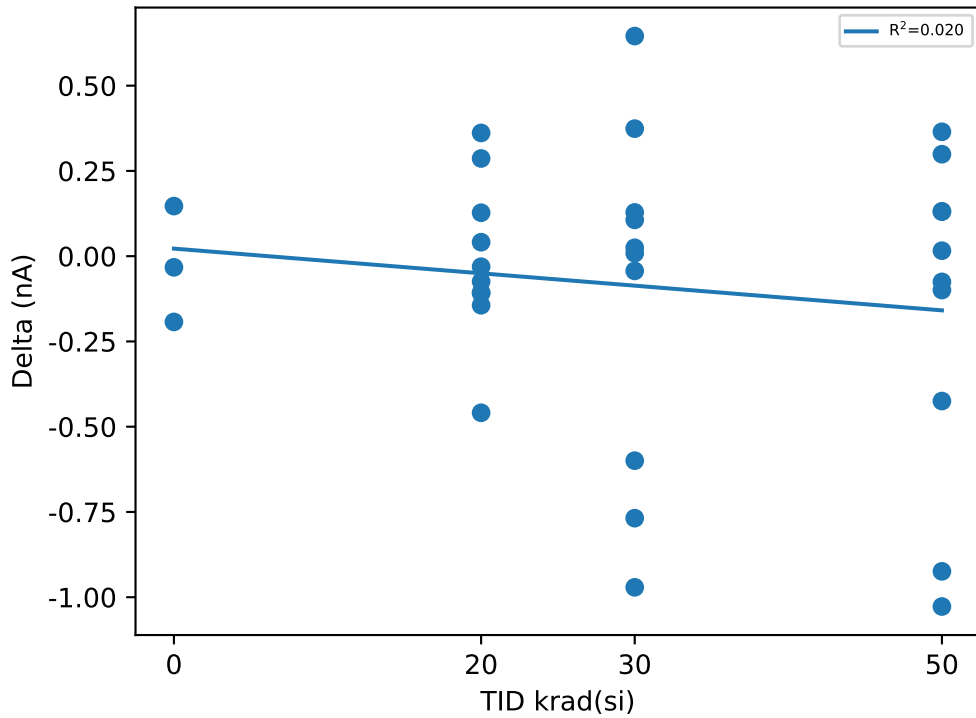
## TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.3487	-0.3077	0.041
22	20	HDR BIAS	0.0816	-0.3776	-0.4592
23	20	HDR BIAS	-0.4353	-0.3079	0.1274
24	20	HDR BIAS	-0.2738	-0.3482	-0.0744
25	20	HDR BIAS	-0.1525	-0.2964	-0.1439
26	20	HDR UNBIAS	-0.3947	-0.1082	0.2865
27	20	HDR UNBIAS	-0.2613	-0.2922	-0.0309
28	20	HDR UNBIAS	-0.2524	-0.3588	-0.1064
29	20	HDR UNBIAS	-0.4665	-0.1051	0.3614
30	20	HDR UNBIAS	-0.2988	-0.4074	-0.1086
31	30	HDR BIAS	-0.1806	-0.156	0.0246
32	30	HDR BIAS	-0.6069	0.0385	0.6454
33	30	HDR BIAS	-0.4174	-0.2891	0.1283
34	30	HDR BIAS	0.5591	-0.4119	-0.971
35	30	HDR BIAS	-0.2543	-0.2455	0.0088
36	30	HDR UNBIAS	-0.3144	-0.3576	-0.0432
37	30	HDR UNBIAS	0.4998	-0.0998	-0.5996
38	30	HDR UNBIAS	-0.3043	0.0697	0.374
39	30	HDR UNBIAS	-0.3768	-0.2704	0.1064
40	30	HDR UNBIAS	0.5841	-0.1841	-0.7682
41	50	HDR BIAS	-0.2606	-0.13	0.1306
42	50	HDR BIAS	-0.355	-0.3389	0.0161
43	50	HDR BIAS	0.0941	-0.3307	-0.4248
44	50	HDR BIAS	-0.4571	-0.1581	0.299
45	50	HDR BIAS	-0.2738	-0.3731	-0.0993
46	50	HDR UNBIAS	0.5904	-0.4369	-1.0273
47	50	HDR UNBIAS	-0.3074	-0.3828	-0.0754
48	50	HDR UNBIAS	-0.4112	-0.2797	0.1315
49	50	HDR UNBIAS	0.7152	-0.209	-0.9242
50	50	HDR UNBIAS	-0.3511	0.0136	0.3647
71	0	CORRELATION	-0.3386	-0.3713	-0.0327
72	0	CORRELATION	-0.3175	-0.1706	0.1469
73	0	CORRELATION	-0.0558	-0.2486	-0.1928

## TID vs Post - Pre Exposure Delta

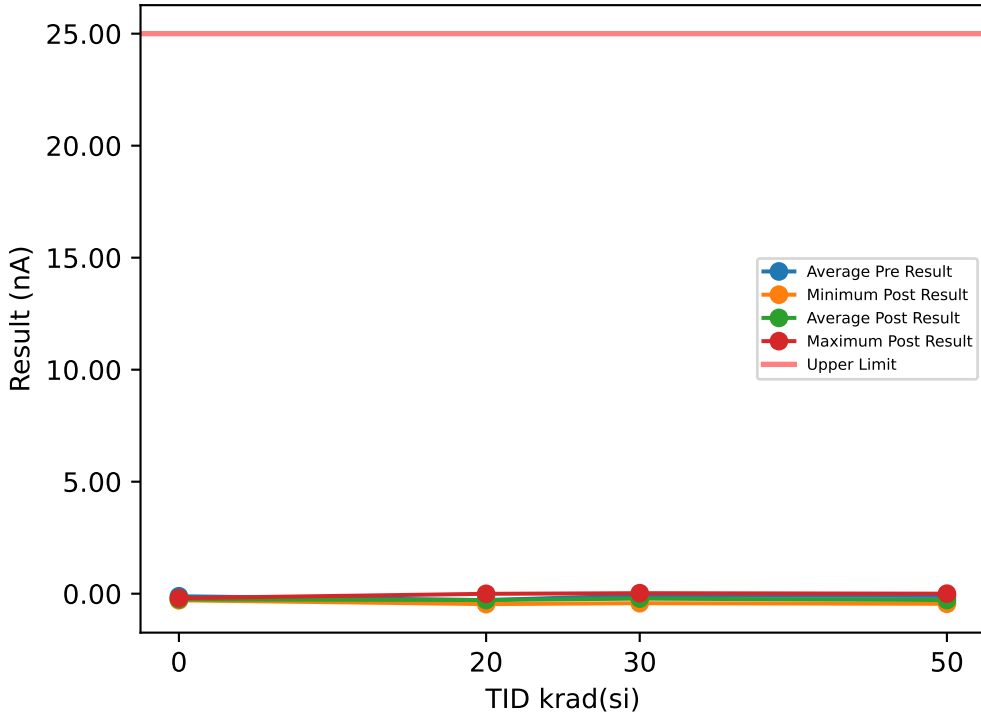


## Test Statistics (nA)

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	-0.3386	-0.2373	-0.0558	0.15754	-0.3713	-0.2635	-0.1706	0.10118	-0.1928	-0.0262	0.1469	0.16994
20	-0.4665	-0.28024	0.0816	0.15822	-0.4074	-0.29095	-0.1051	0.10408	-0.4592	-0.01071	0.3614	0.23348
30	-0.6069	-0.08117	0.5841	0.44857	-0.4119	-0.19062	0.0697	0.15835	-0.971	-0.10945	0.6454	0.51202
50	-0.4571	-0.10165	0.7152	0.42561	-0.4369	-0.26256	0.0136	0.13962	-1.0273	-0.16091	0.3647	0.48346

# Device Test: 19.18 CURRENT|EA//4.5/4.5/0/0/4.5/1MHz//@EA\_IB

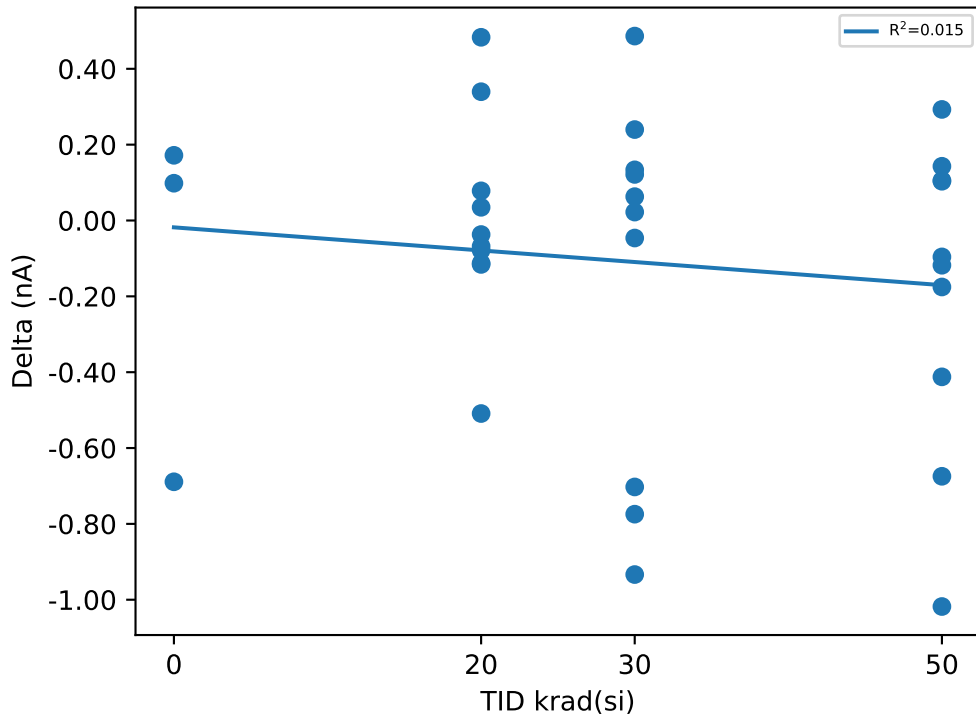
## TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.3425	-0.3077	0.0348
22	20	HDR BIAS	0.0441	-0.4649	-0.509
23	20	HDR BIAS	-0.3479	-0.4265	-0.0786
24	20	HDR BIAS	-0.2957	-0.3327	-0.037
25	20	HDR BIAS	-0.1182	-0.234	-0.1158
26	20	HDR UNBIAS	-0.4883	-0.0052	0.4831
27	20	HDR UNBIAS	-0.2957	-0.2175	0.0782
28	20	HDR UNBIAS	-0.1681	-0.2808	-0.1127
29	20	HDR UNBIAS	-0.4883	-0.1487	0.3396
30	20	HDR UNBIAS	-0.3394	-0.4074	-0.068
31	30	HDR BIAS	-0.3024	-0.1809	0.1215
32	30	HDR BIAS	-0.4759	0.0104	0.4863
33	30	HDR BIAS	-0.2957	-0.2735	0.0222
34	30	HDR BIAS	0.35	-0.4244	-0.7744
35	30	HDR BIAS	-0.4103	-0.2767	0.1336
36	30	HDR UNBIAS	-0.3987	-0.3358	0.0629
37	30	HDR UNBIAS	0.6122	-0.0904	-0.7026
38	30	HDR UNBIAS	-0.2169	0.0229	0.2398
39	30	HDR UNBIAS	-0.3425	-0.3887	-0.0462
40	30	HDR UNBIAS	0.6715	-0.2621	-0.9336
41	50	HDR BIAS	-0.3417	-0.2361	0.1056
42	50	HDR BIAS	-0.4268	-0.3233	0.1035
43	50	HDR BIAS	0.0566	-0.3557	-0.4123
44	50	HDR BIAS	-0.3573	-0.2143	0.143
45	50	HDR BIAS	-0.355	-0.451	-0.096
46	50	HDR UNBIAS	0.6185	-0.3994	-1.0179
47	50	HDR UNBIAS	-0.1607	-0.336	-0.1753
48	50	HDR UNBIAS	-0.2551	-0.3731	-0.118
49	50	HDR UNBIAS	0.5248	-0.1497	-0.6745
50	50	HDR UNBIAS	-0.2918	0.0011	0.2929
71	0	CORRELATION	-0.3635	-0.2652	0.0983
72	0	CORRELATION	-0.3706	-0.1987	0.1719
73	0	CORRELATION	0.3937	-0.2953	-0.689

## TID vs Post - Pre Exposure Delta

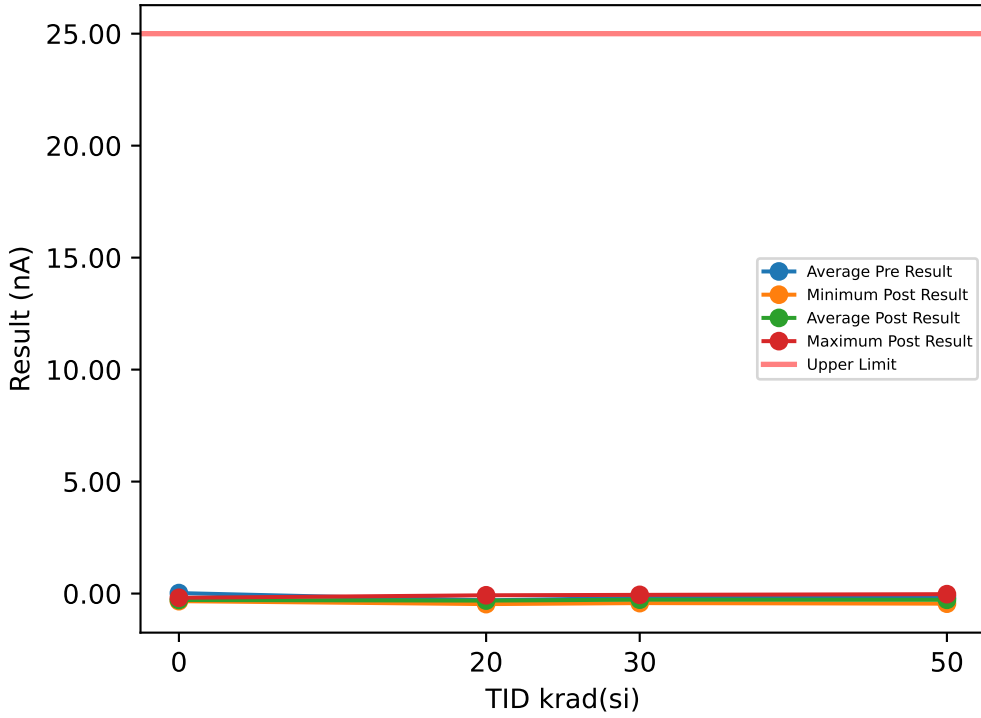


## Test Statistics (nA)

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	-0.3706	-0.11347	0.3937	0.43923	-0.2953	-0.25307	-0.1987	0.04943	-0.689	-0.1396	0.1719	0.47722
20	-0.4883	-0.284	0.0441	0.16428	-0.4649	-0.28254	-0.0052	0.1391	-0.509	0.00146	0.4831	0.26944
30	-0.4759	-0.08087	0.6715	0.4447	-0.4244	-0.21992	0.0229	0.15702	-0.9336	-0.13905	0.4863	0.4836
50	-0.4268	-0.09885	0.6185	0.3789	-0.451	-0.28375	0.0011	0.1354	-1.0179	-0.1849	0.2929	0.40841

# Device Test: 19.19 CURRENT|EA//5/5/0/0/5/100kHz//@EA\_IB

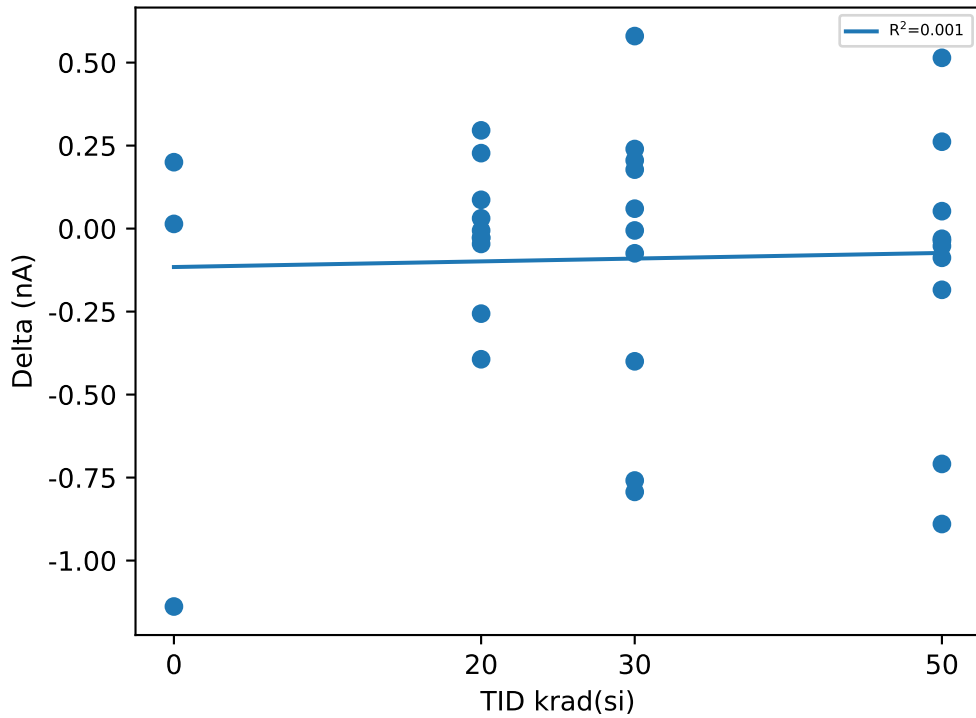
## TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.3206	-0.3482	-0.0276
22	20	HDR BIAS	-0.215	-0.4712	-0.2562
23	20	HDR BIAS	-0.5351	-0.4484	0.0867
24	20	HDR BIAS	-0.3862	-0.3918	-0.0056
25	20	HDR BIAS	0.066	-0.3276	-0.3936
26	20	HDR UNBIAS	-0.3667	-0.1394	0.2273
27	20	HDR UNBIAS	-0.33	-0.3762	-0.0462
28	20	HDR UNBIAS	-0.2275	-0.1965	0.031
29	20	HDR UNBIAS	-0.3729	-0.077	0.2959
30	20	HDR UNBIAS	-0.33	-0.3576	-0.0276
31	30	HDR BIAS	-0.3367	-0.1591	0.1776
32	30	HDR BIAS	-0.6506	-0.0707	0.5799
33	30	HDR BIAS	-0.4861	-0.4261	0.06
34	30	HDR BIAS	0.0254	-0.3744	-0.3998
35	30	HDR BIAS	-0.557	-0.3173	0.2397
36	30	HDR UNBIAS	-0.3893	-0.3949	-0.0056
37	30	HDR UNBIAS	0.5373	-0.2215	-0.7588
38	30	HDR UNBIAS	-0.2637	-0.0582	0.2055
39	30	HDR UNBIAS	-0.2894	-0.3638	-0.0744
40	30	HDR UNBIAS	0.453	-0.3401	-0.7931
41	50	HDR BIAS	-0.3167	-0.2642	0.0525
42	50	HDR BIAS	-0.33	-0.3607	-0.0307
43	50	HDR BIAS	-0.0683	-0.2527	-0.1844
44	50	HDR BIAS	-0.582	-0.0676	0.5144
45	50	HDR BIAS	-0.3831	-0.4198	-0.0367
46	50	HDR UNBIAS	0.503	-0.3869	-0.8899
47	50	HDR UNBIAS	-0.3635	-0.4515	-0.088
48	50	HDR UNBIAS	-0.3456	-0.398	-0.0524
49	50	HDR UNBIAS	0.5467	-0.1622	-0.7089
50	50	HDR UNBIAS	-0.2887	-0.027	0.2617
71	0	CORRELATION	-0.3542	-0.3401	0.0141
72	0	CORRELATION	-0.3893	-0.1893	0.2
73	0	CORRELATION	0.8089	-0.3295	-1.1384

## TID vs Post - Pre Exposure Delta

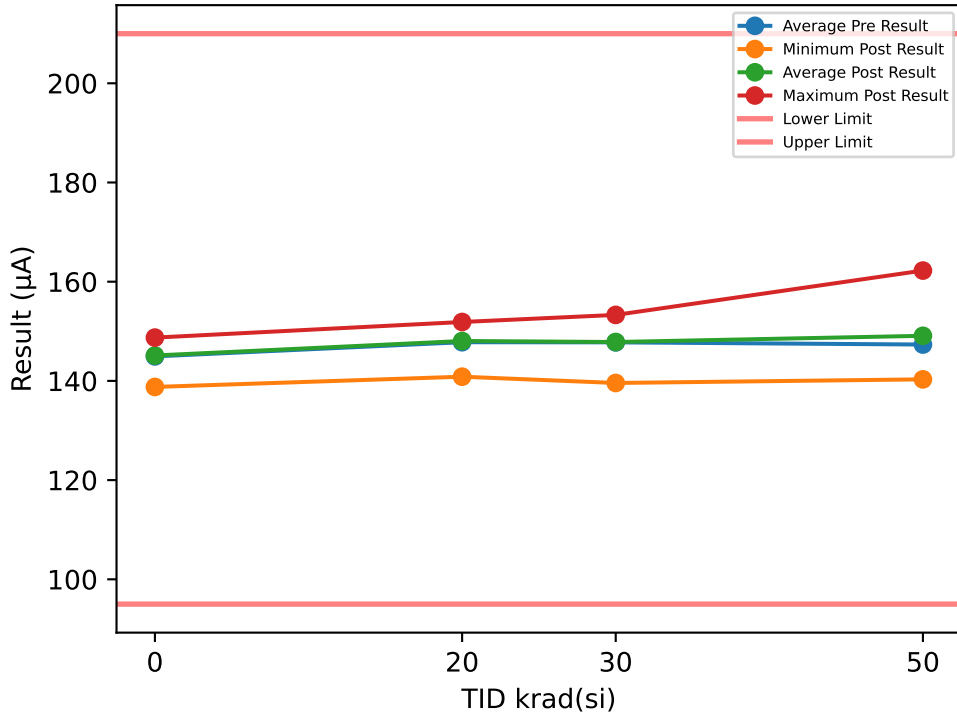


## Test Statistics (nA)

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	-0.3893	0.0218	0.8089	0.68187	-0.3401	-0.2863	-0.1893	0.084171	-1.1384	-0.3081	0.2	0.72504
20	-0.5351	-0.3018	0.066	0.15674	-0.4712	-0.31339	-0.077	0.13183	-0.3936	-0.01159	0.2959	0.20292
30	-0.6506	-0.19571	0.5373	0.40819	-0.4261	-0.27261	-0.0582	0.1358	-0.7931	-0.0769	0.5799	0.44499
50	-0.582	-0.16282	0.5467	0.38312	-0.4515	-0.27906	-0.027	0.15085	-0.8899	-0.11624	0.5144	0.41392

# Device Test: 19.2 CURRENT|EA\_SOURCE//4.5/4.5/0/0/4.5/500kHz//@EA\_I\_SOURCE

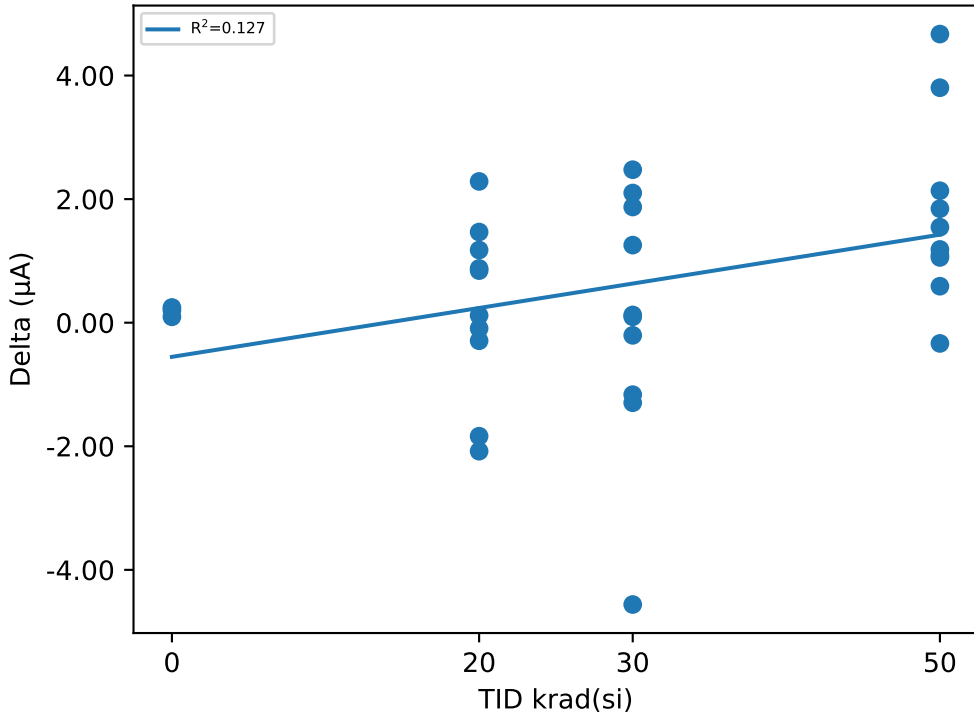
### TID vs Result Stats



### Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	143.31	145.59	2.2863
22	20	HDR BIAS	145.35	146.53	1.176
23	20	HDR BIAS	147.46	148.93	1.4673
24	20	HDR BIAS	150.25	148.17	-2.0795
25	20	HDR BIAS	151.46	151.37	-0.0926
26	20	HDR UNBIAS	148.68	146.85	-1.837
27	20	HDR UNBIAS	151.03	151.88	0.8429
28	20	HDR UNBIAS	150.36	151.24	0.8781
29	20	HDR UNBIAS	149.34	149.05	-0.292
30	20	HDR UNBIAS	140.73	140.85	0.1177
31	30	HDR BIAS	148.8	147.5	-1.2954
32	30	HDR BIAS	152.55	152.67	0.1255
33	30	HDR BIAS	147.67	149.77	2.0989
34	30	HDR BIAS	146.79	148.67	1.8722
35	30	HDR BIAS	153.21	153.3	0.0956
36	30	HDR UNBIAS	147.48	149.96	2.4759
37	30	HDR UNBIAS	140.84	142.1	1.2556
38	30	HDR UNBIAS	146.48	146.28	-0.2046
39	30	HDR UNBIAS	153.14	148.58	-4.5609
40	30	HDR UNBIAS	140.75	139.58	-1.1646
41	50	HDR BIAS	140.92	142.47	1.5456
42	50	HDR BIAS	151.76	152.85	1.0944
43	50	HDR BIAS	144.41	144.08	-0.3355
44	50	HDR BIAS	148.24	149.43	1.1857
45	50	HDR BIAS	146.01	146.6	0.5903
46	50	HDR UNBIAS	147.29	151.97	4.6709
47	50	HDR UNBIAS	146.77	147.82	1.0562
48	50	HDR UNBIAS	138.47	140.31	1.8452
49	50	HDR UNBIAS	160.11	162.24	2.1356
50	50	HDR UNBIAS	149.34	153.15	3.8029
71	0	CORRELATION	148.53	148.73	0.2018
72	0	CORRELATION	138.69	138.78	0.0952
73	0	CORRELATION	147.61	147.85	0.2463

### TID vs Post - Pre Exposure Delta

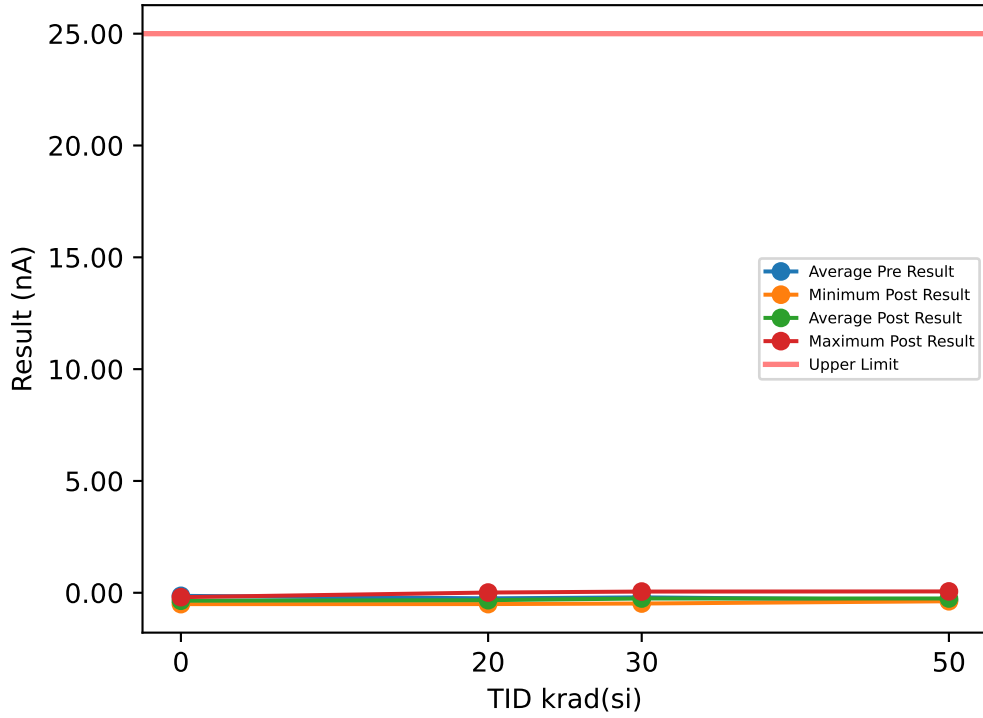


### Test Statistics (µA)

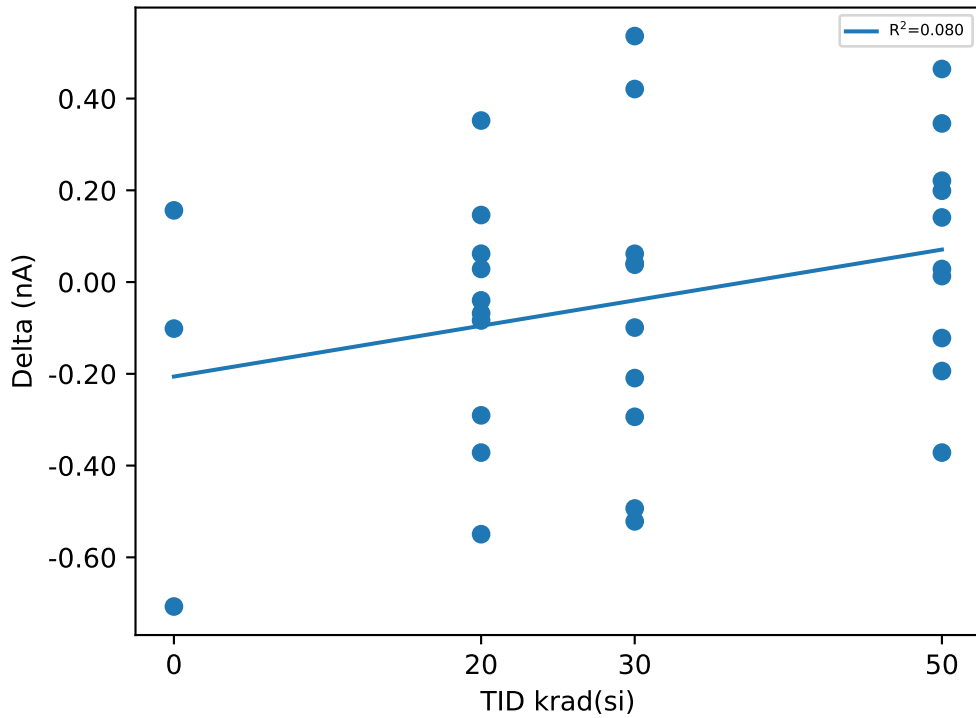
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	138.69	144.94	148.53	5.4347	138.78	145.12	148.73	5.507	0.0952	0.1811	0.2463	0.077648
20	140.73	147.8	151.46	3.5883	140.85	148.04	151.88	3.3218	-2.0795	0.24672	2.2863	1.3921
30	140.75	147.77	153.21	4.5006	139.58	147.84	153.3	4.2995	-4.5609	0.06982	2.4759	2.0942
50	138.47	147.33	160.11	5.9431	140.31	149.09	162.24	6.3751	-0.3355	1.7591	4.6709	1.4858

# Device Test: 19.20 CURRENT|EA//5/5/0/0/5/1MHz//@EA\_IB

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



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

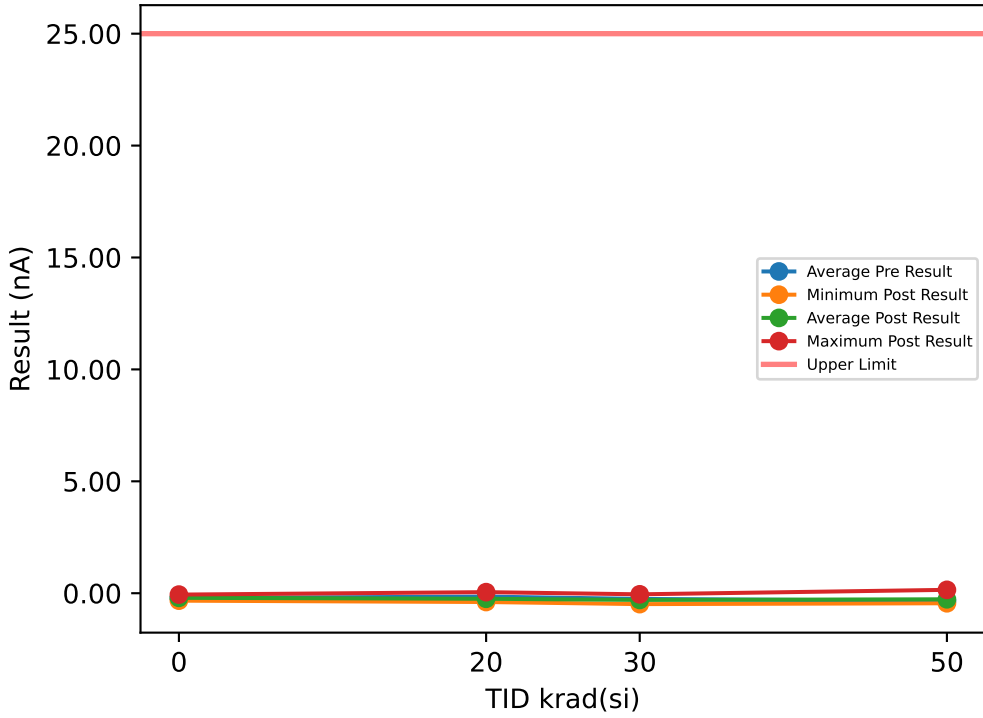
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.3862	-0.3576	0.0286
22	20	HDR BIAS	-0.215	-0.5055	-0.2905
23	20	HDR BIAS	-0.4821	-0.4203	0.0618
24	20	HDR BIAS	-0.305	-0.3887	-0.0837
25	20	HDR BIAS	0.2064	-0.3432	-0.5496
26	20	HDR UNBIAS	-0.3979	-0.2518	0.1461
27	20	HDR UNBIAS	-0.3425	-0.4105	-0.068
28	20	HDR UNBIAS	0.1346	-0.2371	-0.3717
29	20	HDR UNBIAS	-0.3417	0.0104	0.3521
30	20	HDR UNBIAS	-0.3612	-0.4011	-0.0399
31	30	HDR BIAS	0.1658	-0.1279	-0.2937
32	30	HDR BIAS	-0.4883	0.0479	0.5362
33	30	HDR BIAS	-0.4174	-0.3762	0.0412
34	30	HDR BIAS	-0.2712	-0.4805	-0.2093
35	30	HDR BIAS	-0.5039	-0.4422	0.0617
36	30	HDR UNBIAS	-0.3019	-0.4011	-0.0992
37	30	HDR UNBIAS	0.3875	-0.1341	-0.5216
38	30	HDR UNBIAS	-0.3667	0.0541	0.4208
39	30	HDR UNBIAS	-0.3581	-0.3202	0.0379
40	30	HDR UNBIAS	0.1097	-0.3838	-0.4935
41	50	HDR BIAS	-0.5133	-0.2923	0.221
42	50	HDR BIAS	-0.3924	-0.3794	0.013
43	50	HDR BIAS	-0.1713	-0.2933	-0.122
44	50	HDR BIAS	-0.532	-0.1862	0.3458
45	50	HDR BIAS	-0.3394	-0.3109	0.0285
46	50	HDR UNBIAS	0.0191	-0.3526	-0.3717
47	50	HDR UNBIAS	-0.5164	-0.3173	0.1991
48	50	HDR UNBIAS	-0.4642	-0.3233	0.1409
49	50	HDR UNBIAS	0.0379	-0.156	-0.1939
50	50	HDR UNBIAS	-0.4041	0.0604	0.4645
71	0	CORRELATION	-0.2606	-0.362	-0.1014
72	0	CORRELATION	-0.3519	-0.1956	0.1563
73	0	CORRELATION	0.2002	-0.507	-0.7072

## 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	-0.3519	-0.13743	0.2002	0.29594	-0.507	-0.35487	-0.1956	0.15582	-0.7072	-0.21743	0.1563	0.44329
20	-0.4821	-0.24906	0.2064	0.23192	-0.5055	-0.33054	0.0104	0.14356	-0.5496	-0.08148	0.3521	0.26276
30	-0.5039	-0.20445	0.3875	0.31014	-0.4805	-0.2564	0.0541	0.20023	-0.5216	-0.05195	0.5362	0.34961
50	-0.532	-0.32761	0.0379	0.21576	-0.3794	-0.25509	0.0604	0.13061	-0.3717	0.07252	0.4645	0.25445

# Device Test: 19.21 CURRENT|EA//12/12/0/0/5/100kHz//@EA\_IB

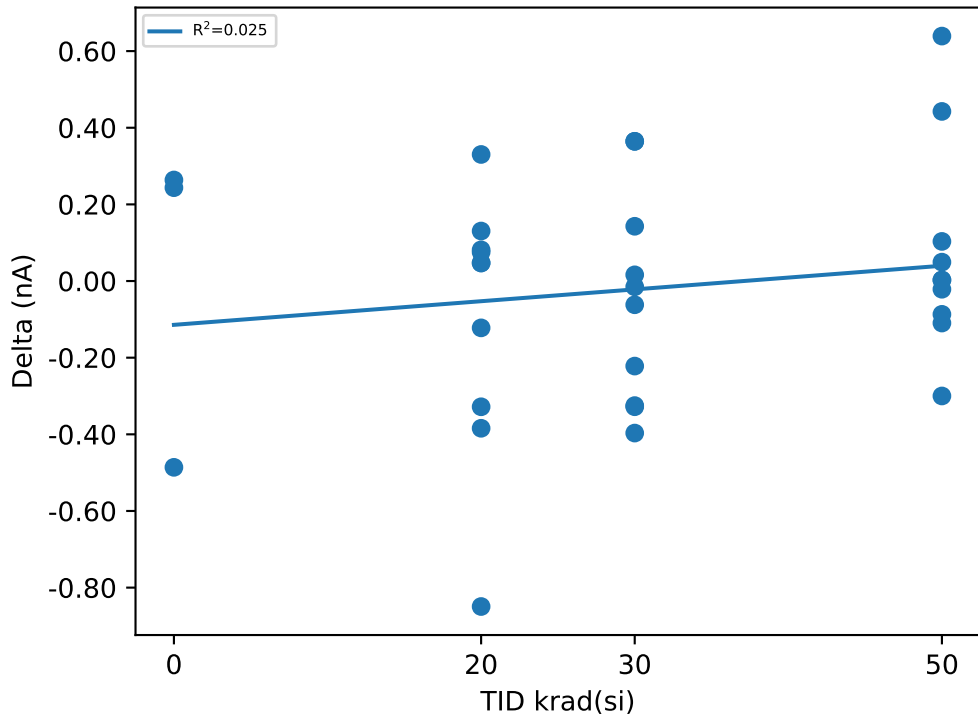
## TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.3331	-0.2517	0.0814
22	20	HDR BIAS	0.066	-0.2621	-0.3281
23	20	HDR BIAS	-0.3698	-0.2393	0.1305
24	20	HDR BIAS	-0.3643	-0.2891	0.0752
25	20	HDR BIAS	0.4561	-0.3932	-0.8493
26	20	HDR UNBIAS	-0.245	-0.3672	-0.1222
27	20	HDR UNBIAS	-0.3675	-0.3202	0.0473
28	20	HDR UNBIAS	0.2501	-0.1341	-0.3842
29	20	HDR UNBIAS	-0.2824	0.0479	0.3303
30	20	HDR UNBIAS	-0.3175	-0.2704	0.0471
31	30	HDR BIAS	0.2095	-0.1872	-0.3967
32	30	HDR BIAS	-0.4135	-0.0489	0.3646
33	30	HDR BIAS	-0.3737	-0.3887	-0.015
34	30	HDR BIAS	-0.2649	-0.4868	-0.2219
35	30	HDR BIAS	-0.5445	-0.4016	0.1429
36	30	HDR UNBIAS	-0.3206	-0.3825	-0.0619
37	30	HDR UNBIAS	0.066	-0.259	-0.325
38	30	HDR UNBIAS	-0.4166	-0.052	0.3646
39	30	HDR UNBIAS	-0.3675	-0.3513	0.0162
40	30	HDR UNBIAS	-0.1182	-0.4462	-0.328
41	50	HDR BIAS	-0.479	-0.4297	0.0493
42	50	HDR BIAS	-0.3175	-0.3389	-0.0214
43	50	HDR BIAS	-0.1494	-0.4493	-0.2999
44	50	HDR BIAS	-0.3947	-0.3922	0.0025
45	50	HDR BIAS	-0.3987	-0.2953	0.1034
46	50	HDR UNBIAS	-0.2243	-0.3339	-0.1096
47	50	HDR UNBIAS	-0.5757	-0.1331	0.4426
48	50	HDR UNBIAS	-0.2925	-0.3794	-0.0869
49	50	HDR UNBIAS	-0.112	-0.1092	0.0028
50	50	HDR UNBIAS	-0.4883	0.1509	0.6392
71	0	CORRELATION	-0.4883	-0.2246	0.2637
72	0	CORRELATION	-0.305	-0.0614	0.2436
73	0	CORRELATION	0.1534	-0.3327	-0.4861

## TID vs Post - Pre Exposure Delta

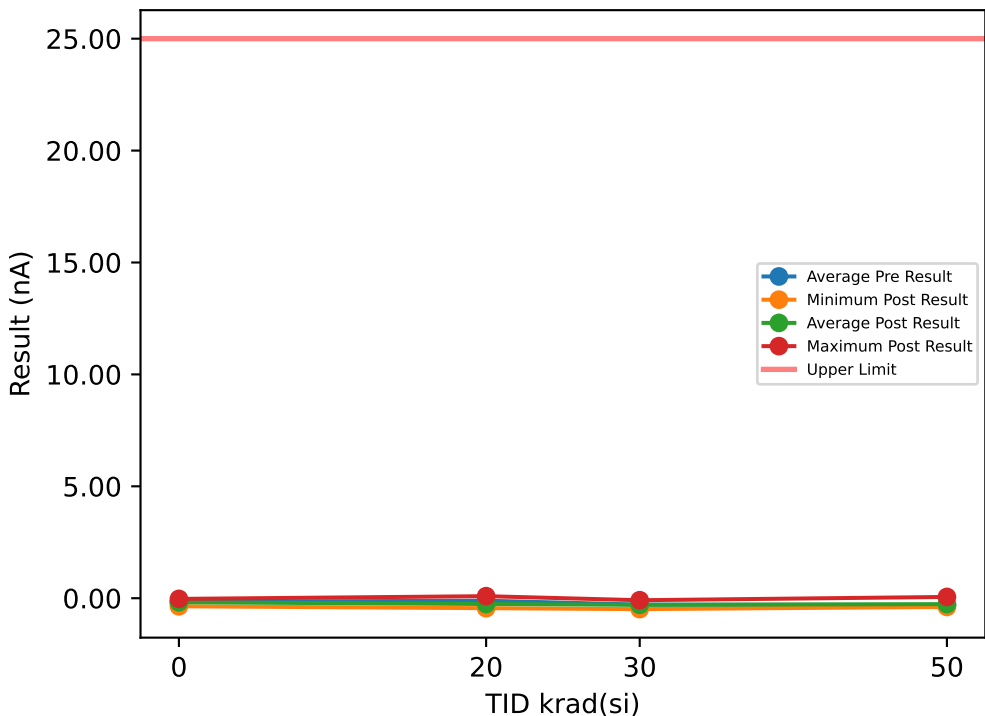


## Test Statistics (nA)

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	-0.4883	-0.2133	0.1534	0.33053	-0.3327	-0.20623	-0.0614	0.13658	-0.4861	0.0070667	0.2637	0.42721
20	-0.3698	-0.15074	0.4561	0.29884	-0.3932	-0.24794	0.0479	0.12628	-0.8493	-0.0972	0.3303	0.33992
30	-0.5445	-0.2544	0.2095	0.23657	-0.4868	-0.30042	-0.0489	0.15736	-0.3967	-0.04602	0.3646	0.27674
50	-0.5757	-0.34321	-0.112	0.1519	-0.4493	-0.27101	0.1509	0.18731	-0.2999	0.0722	0.6392	0.27395



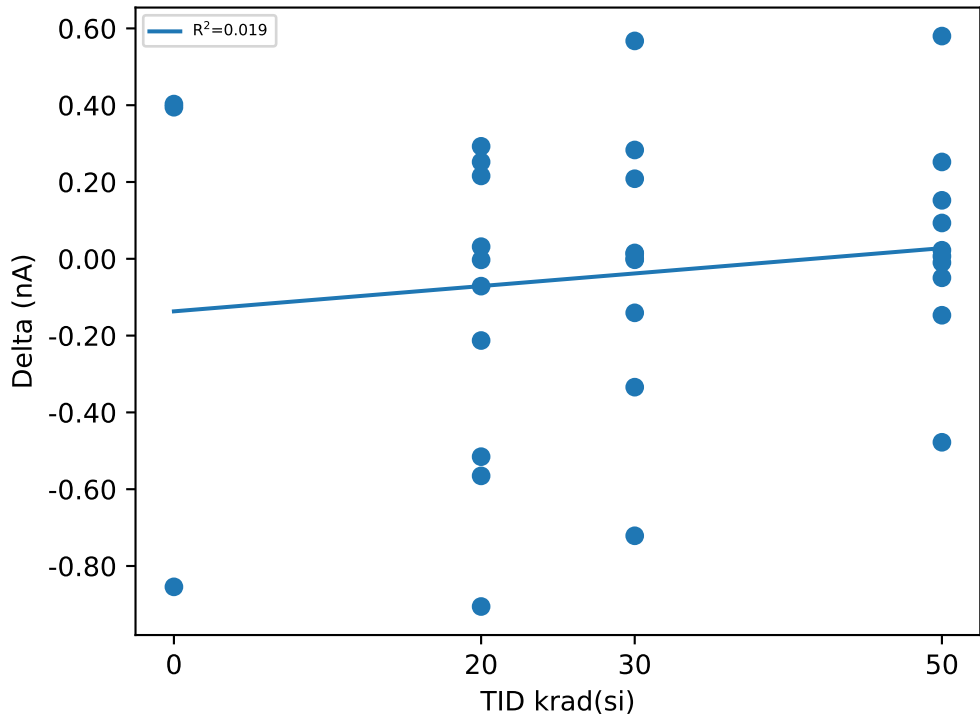
TID vs Result Stats



Test Results (Upper Limit = 25.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.5017	-0.2859	0.2158
22	20	HDR BIAS	0.2376	-0.2777	-0.5153
23	20	HDR BIAS	-0.3791	-0.1269	0.2522
24	20	HDR BIAS	-0.3487	-0.3171	0.0316
25	20	HDR BIAS	0.4936	-0.4119	-0.9055
26	20	HDR UNBIAS	-0.2325	-0.4453	-0.2128
27	20	HDR UNBIAS	-0.3206	-0.3918	-0.0712
28	20	HDR UNBIAS	0.4187	-0.1466	-0.5653
29	20	HDR UNBIAS	-0.2013	0.0916	0.2929
30	20	HDR UNBIAS	-0.2738	-0.2766	-0.0028
31	30	HDR BIAS	0.5154	-0.2059	-0.7213
32	30	HDR BIAS	-0.3323	-0.1238	0.2085
33	30	HDR BIAS	-0.3831	-0.3856	-0.0025
34	30	HDR BIAS	-0.1525	-0.4868	-0.3343
35	30	HDR BIAS	-0.6069	-0.3235	0.2834
36	30	HDR UNBIAS	-0.3456	-0.3327	0.0129
37	30	HDR UNBIAS	-0.2212	-0.2059	0.0153
38	30	HDR UNBIAS	-0.6568	-0.0894	0.5674
39	30	HDR UNBIAS	-0.3956	-0.3949	0.0007
40	30	HDR UNBIAS	-0.2649	-0.4056	-0.1407
41	50	HDR BIAS	-0.532	-0.3797	0.1523
42	50	HDR BIAS	-0.3581	-0.3358	0.0223
43	50	HDR BIAS	0.0878	-0.39	-0.4778
44	50	HDR BIAS	-0.3292	-0.3391	-0.0099
45	50	HDR BIAS	-0.3456	-0.3389	0.0067
46	50	HDR UNBIAS	-0.1401	-0.2871	-0.147
47	50	HDR UNBIAS	-0.4634	-0.2112	0.2522
48	50	HDR UNBIAS	-0.2863	-0.3358	-0.0495
49	50	HDR UNBIAS	-0.1681	-0.0748	0.0933
50	50	HDR UNBIAS	-0.5227	0.0573	0.58
71	0	CORRELATION	-0.5476	-0.1529	0.3947
72	0	CORRELATION	-0.433	-0.0301	0.4029
73	0	CORRELATION	0.4936	-0.3607	-0.8543

TID vs Post - Pre Exposure Delta

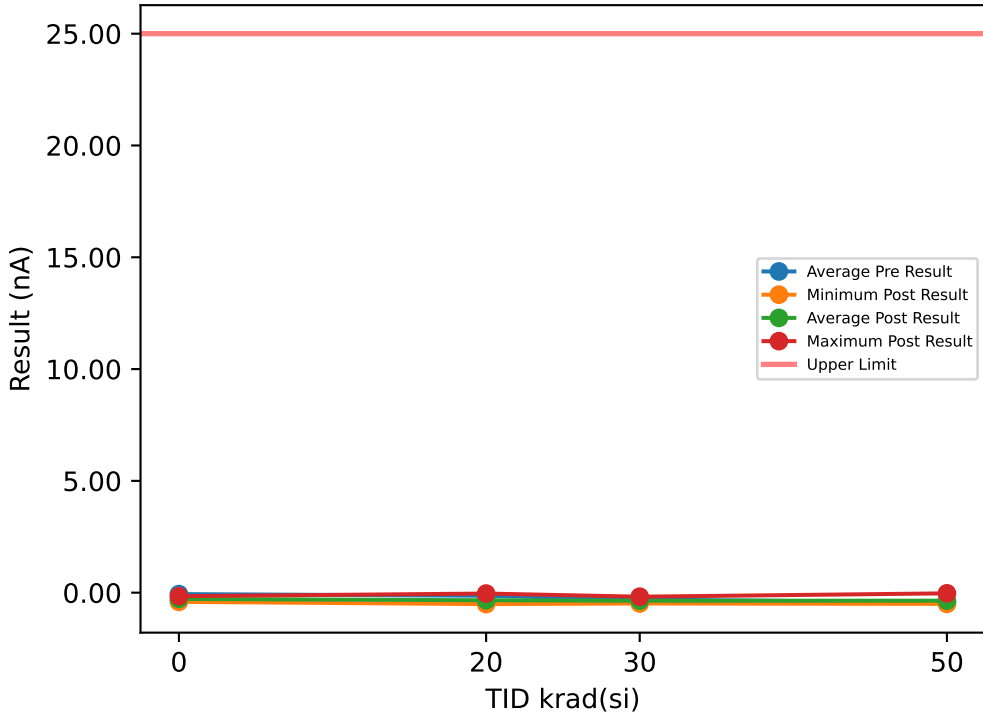


Test Statistics (nA)

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	-0.5476	-0.16233	0.4936	0.57094	-0.3607	-0.18123	-0.0301	0.16711	-0.8543	-0.0189	0.4029	0.72349
20	-0.5017	-0.11078	0.4936	0.35622	-0.4453	-0.25882	0.0916	0.16107	-0.9055	-0.14804	0.2929	0.39905
30	-0.6568	-0.28435	0.5154	0.32185	-0.4868	-0.29541	-0.0894	0.13203	-0.7213	-0.01106	0.5674	0.34908
50	-0.532	-0.30577	0.0878	0.19138	-0.39	-0.26351	0.0573	0.1465	-0.4778	0.04226	0.58	0.27224

# Device Test: 19.23 CURRENT|EA//14/14/0/0/5/100kHz//@EA\_IB

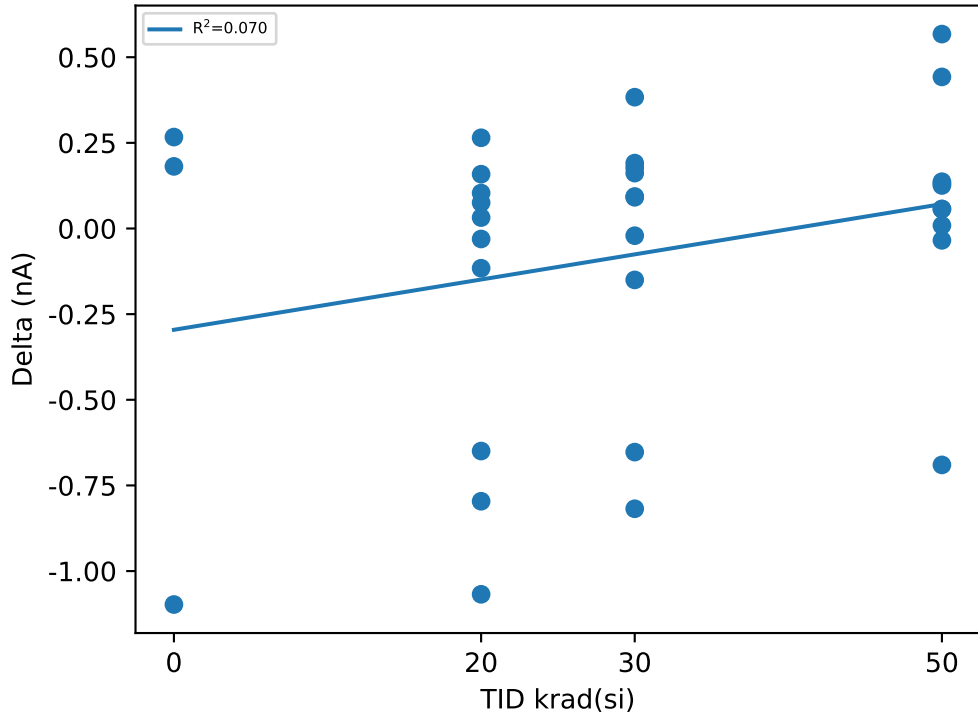
## TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.3987	-0.3233	0.0754
22	20	HDR BIAS	0.3812	-0.415	-0.7962
23	20	HDR BIAS	-0.5133	-0.3548	0.1585
24	20	HDR BIAS	-0.4393	-0.4074	0.0319
25	20	HDR BIAS	0.556	-0.5118	-1.0678
26	20	HDR UNBIAS	-0.3386	-0.4546	-0.116
27	20	HDR UNBIAS	-0.4486	-0.3451	0.1035
28	20	HDR UNBIAS	0.4749	-0.1747	-0.6496
29	20	HDR UNBIAS	-0.3043	-0.0395	0.2648
30	20	HDR UNBIAS	-0.3425	-0.3731	-0.0306
31	30	HDR BIAS	0.4749	-0.3432	-0.8181
32	30	HDR BIAS	-0.3417	-0.18	0.1617
33	30	HDR BIAS	-0.4736	-0.3825	0.0911
34	30	HDR BIAS	0.2002	-0.4525	-0.6527
35	30	HDR BIAS	-0.582	-0.4047	0.1773
36	30	HDR UNBIAS	-0.536	-0.3451	0.1909
37	30	HDR UNBIAS	-0.4241	-0.3307	0.0934
38	30	HDR UNBIAS	-0.5976	-0.2143	0.3833
39	30	HDR UNBIAS	-0.4424	-0.4634	-0.021
40	30	HDR UNBIAS	-0.3336	-0.4837	-0.1501
41	50	HDR BIAS	-0.6256	-0.489	0.1366
42	50	HDR BIAS	-0.4518	-0.3949	0.0569
43	50	HDR BIAS	0.1877	-0.5024	-0.6901
44	50	HDR BIAS	-0.4353	-0.4265	0.0088
45	50	HDR BIAS	-0.4611	-0.4043	0.0568
46	50	HDR UNBIAS	-0.3991	-0.4337	-0.0346
47	50	HDR UNBIAS	-0.7473	-0.3048	0.4425
48	50	HDR UNBIAS	-0.5641	-0.4385	0.1256
49	50	HDR UNBIAS	-0.2868	-0.156	0.1308
50	50	HDR UNBIAS	-0.5976	-0.0301	0.5675
71	0	CORRELATION	-0.5383	-0.2714	0.2669
72	0	CORRELATION	-0.3394	-0.1581	0.1813
73	0	CORRELATION	0.6871	-0.4105	-1.0976

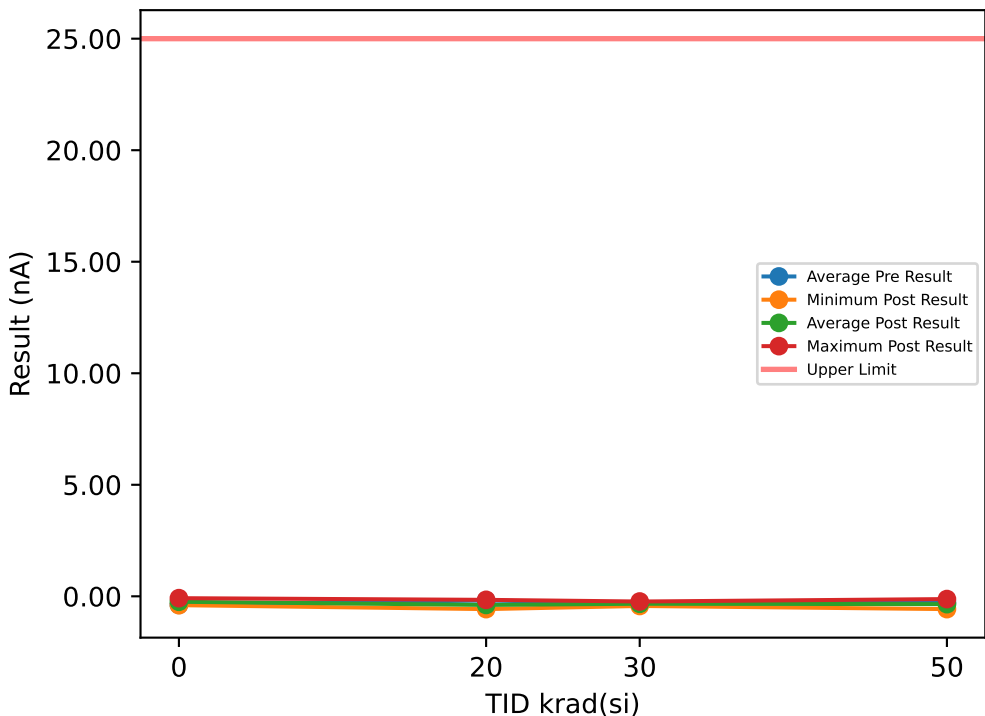
## TID vs Post - Pre Exposure Delta



## 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	-0.5383	-0.063533	0.6871	0.65763	-0.4105	-0.28	-0.1581	0.12642	-1.0976	-0.21647	0.2669	0.76428
20	-0.5133	-0.13732	0.556	0.42591	-0.5118	-0.33993	-0.0395	0.13827	-1.0678	-0.20261	0.2648	0.461
30	-0.5976	-0.30559	0.4749	0.35634	-0.4837	-0.36001	-0.18	0.10113	-0.8181	-0.05442	0.3833	0.38681
50	-0.7473	-0.4381	0.1877	0.25579	-0.5024	-0.35802	-0.0301	0.1526	-0.6901	0.08008	0.5675	0.33154

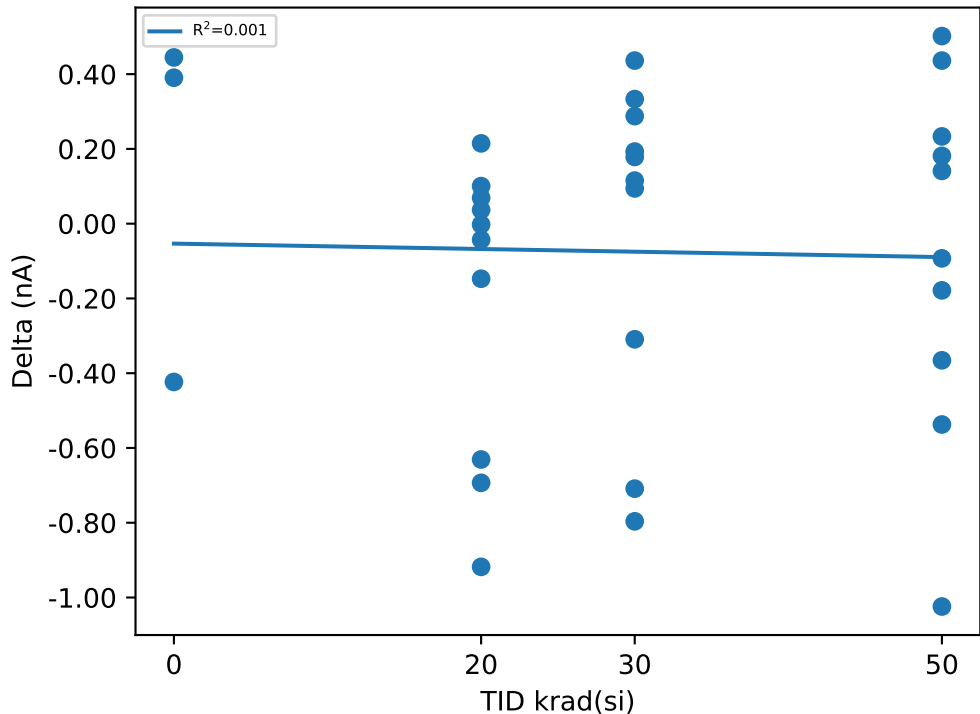
TID vs Result Stats



Test Results (Upper Limit = 25.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.4705	-0.37	0.1005
22	20	HDR BIAS	0.5841	-0.3339	-0.918
23	20	HDR BIAS	-0.3604	-0.3235	0.0369
24	20	HDR BIAS	-0.4143	-0.4572	-0.0429
25	20	HDR BIAS	0.119	-0.5742	-0.6932
26	20	HDR UNBIAS	-0.4041	-0.5514	-0.1473
27	20	HDR UNBIAS	-0.4424	-0.4447	-0.0023
28	20	HDR UNBIAS	0.3406	-0.2902	-0.6308
29	20	HDR UNBIAS	-0.3729	-0.1581	0.2148
30	20	HDR UNBIAS	-0.4393	-0.37	0.0693
31	30	HDR BIAS	0.3843	-0.3245	-0.7088
32	30	HDR BIAS	-0.5663	-0.233	0.3333
33	30	HDR BIAS	-0.5985	-0.3109	0.2876
34	30	HDR BIAS	0.3843	-0.4119	-0.7962
35	30	HDR BIAS	-0.4821	-0.2892	0.1929
36	30	HDR UNBIAS	-0.5017	-0.4074	0.0943
37	30	HDR UNBIAS	-0.4553	-0.3401	0.1152
38	30	HDR UNBIAS	-0.7005	-0.2642	0.4363
39	30	HDR UNBIAS	-0.5048	-0.3264	0.1784
40	30	HDR UNBIAS	-0.1244	-0.4337	-0.3093
41	50	HDR BIAS	-0.5195	-0.2861	0.2334
42	50	HDR BIAS	-0.4705	-0.2891	0.1814
43	50	HDR BIAS	0.4499	-0.5742	-1.0241
44	50	HDR BIAS	-0.2887	-0.4671	-0.1784
45	50	HDR BIAS	-0.3862	-0.479	-0.0928
46	50	HDR UNBIAS	0.0847	-0.2808	-0.3655
47	50	HDR UNBIAS	-0.6256	-0.1238	0.5018
48	50	HDR UNBIAS	-0.5298	-0.3887	0.1411
49	50	HDR UNBIAS	0.1253	-0.4119	-0.5372
50	50	HDR UNBIAS	-0.6506	-0.2143	0.4363
71	0	CORRELATION	-0.6974	-0.2527	0.4447
72	0	CORRELATION	-0.4736	-0.0832	0.3904
73	0	CORRELATION	0.0254	-0.398	-0.4234

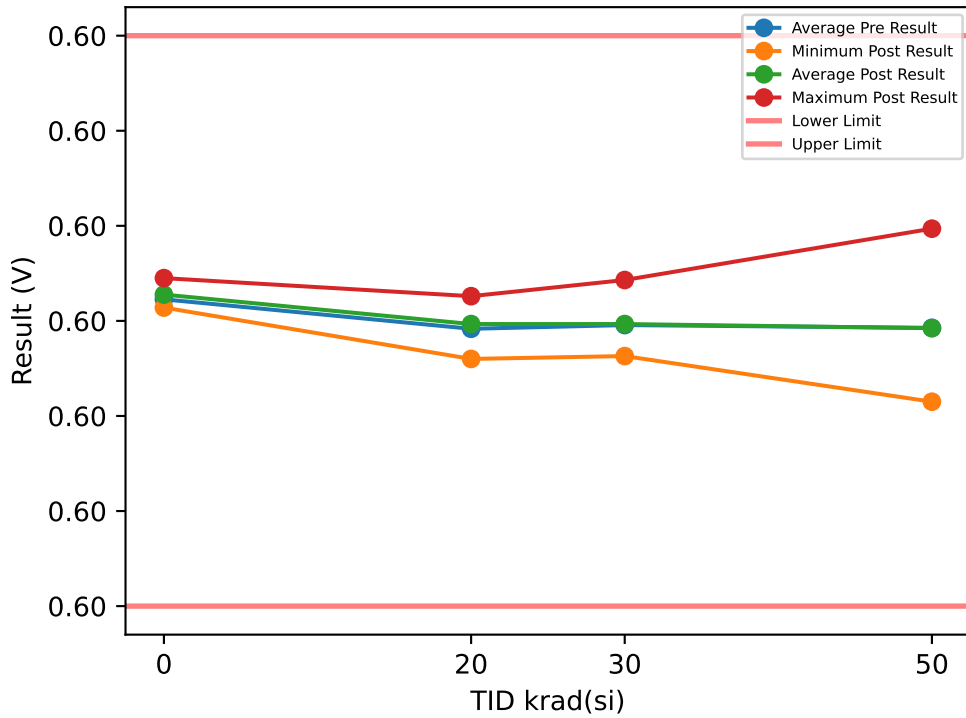
TID vs Post - Pre Exposure Delta



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	-0.6974	-0.38187	0.0254	0.37003	-0.398	-0.24463	-0.0832	0.15755	-0.4234	0.13723	0.4447	0.48628
20	-0.4705	-0.18602	0.5841	0.38576	-0.5742	-0.38732	-0.1581	0.12451	-0.918	-0.2013	0.2148	0.39467
30	-0.7005	-0.3165	0.3843	0.39791	-0.4337	-0.33413	-0.233	0.065992	-0.7962	-0.01763	0.4363	0.43516
50	-0.6506	-0.2811	0.4499	0.3733	-0.5742	-0.3515	-0.1238	0.13666	-1.0241	-0.0704	0.5018	0.47273

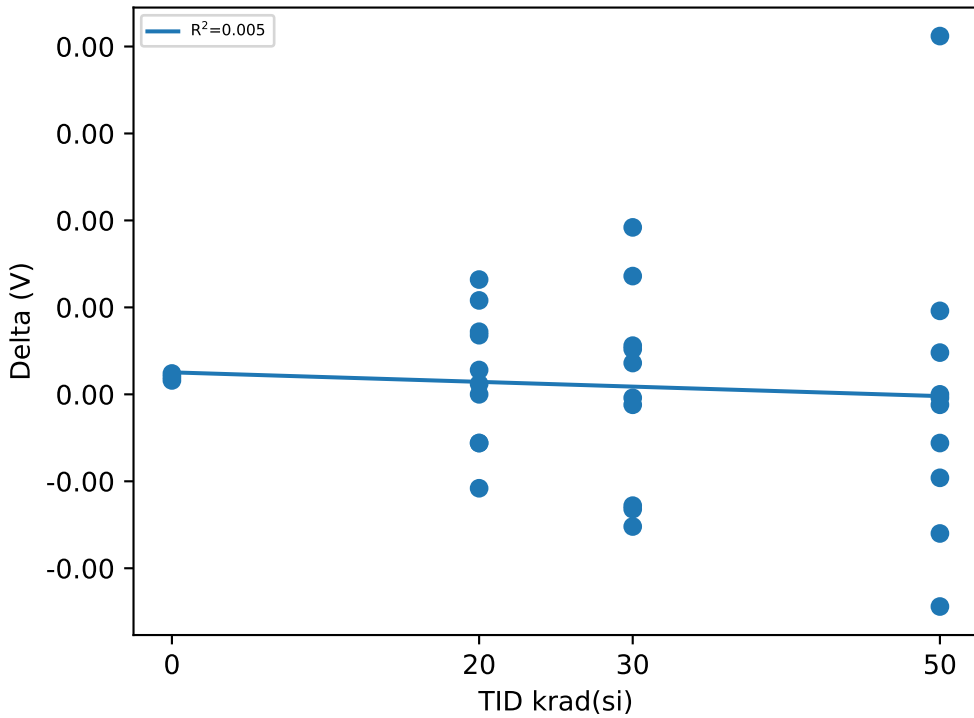
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60027	0.6	-0.00027
22	20	HDR BIAS	0.59966	0.59999	0.00033
23	20	HDR BIAS	0.59981	0.59998	0.00017
24	20	HDR BIAS	0.60017	0.60017	0
25	20	HDR BIAS	0.59969	0.59996	0.00027
26	20	HDR UNBIAS	0.59974	0.5996	-0.00014
27	20	HDR UNBIAS	0.59971	0.59978	7e-05
28	20	HDR UNBIAS	0.6	0.60003	3e-05
29	20	HDR UNBIAS	0.60004	0.5999	-0.00014
30	20	HDR UNBIAS	0.60008	0.60026	0.00018
31	30	HDR BIAS	0.59996	0.59963	-0.00033
32	30	HDR BIAS	0.60012	0.60025	0.00013
33	30	HDR BIAS	0.60008	0.59976	-0.00032
34	30	HDR BIAS	0.59971	0.59985	0.00014
35	30	HDR BIAS	0.59969	0.60017	0.00048
36	30	HDR UNBIAS	0.60009	0.60043	0.00034
37	30	HDR UNBIAS	0.59984	0.59981	-3e-05
38	30	HDR UNBIAS	0.60004	0.59966	-0.00038
39	30	HDR UNBIAS	0.59977	0.59986	9e-05
40	30	HDR UNBIAS	0.60026	0.60025	-1e-05
41	50	HDR BIAS	0.59986	0.59925	-0.00061
42	50	HDR BIAS	0.59987	0.59999	0.00012
43	50	HDR BIAS	0.59989	0.59988	-1e-05
44	50	HDR BIAS	0.59955	0.59915	-0.0004
45	50	HDR BIAS	0.60002	0.59999	-3e-05
46	50	HDR UNBIAS	0.59994	0.60097	0.00103
47	50	HDR UNBIAS	0.60006	0.60006	0
48	50	HDR UNBIAS	0.60012	0.59988	-0.00024
49	50	HDR UNBIAS	0.60021	0.60007	-0.00014
50	50	HDR UNBIAS	0.59975	0.59999	0.00024
71	0	CORRELATION	0.6004	0.60045	5e-05
72	0	CORRELATION	0.6002	0.60024	4e-05
73	0	CORRELATION	0.60008	0.60014	6e-05

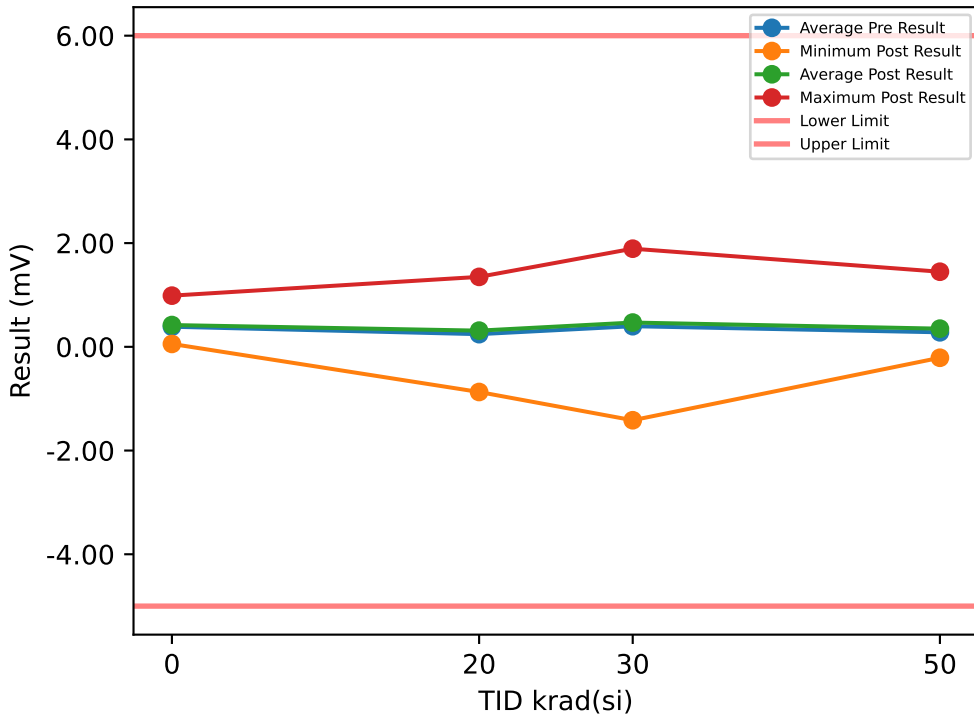
TID vs Post - Pre Exposure Delta



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	0.60008	0.60023	0.6004	0.00016166	0.60014	0.60028	0.60045	0.00015822	4e-05	5e-05	6e-05	1e-05
20	0.59966	0.59992	0.60027	0.00022121	0.5996	0.59997	0.60026	0.00018469	-0.00027	5e-05	0.00033	0.00019322
30	0.59969	0.59996	0.60026	0.00019409	0.59963	0.59997	0.60043	0.0002821	-0.00038	1.1e-05	0.00048	0.00028792
50	0.59955	0.59993	0.60021	0.00019044	0.59915	0.59992	0.60097	0.00049489	-0.00061	-4e-06	0.00103	0.00044008

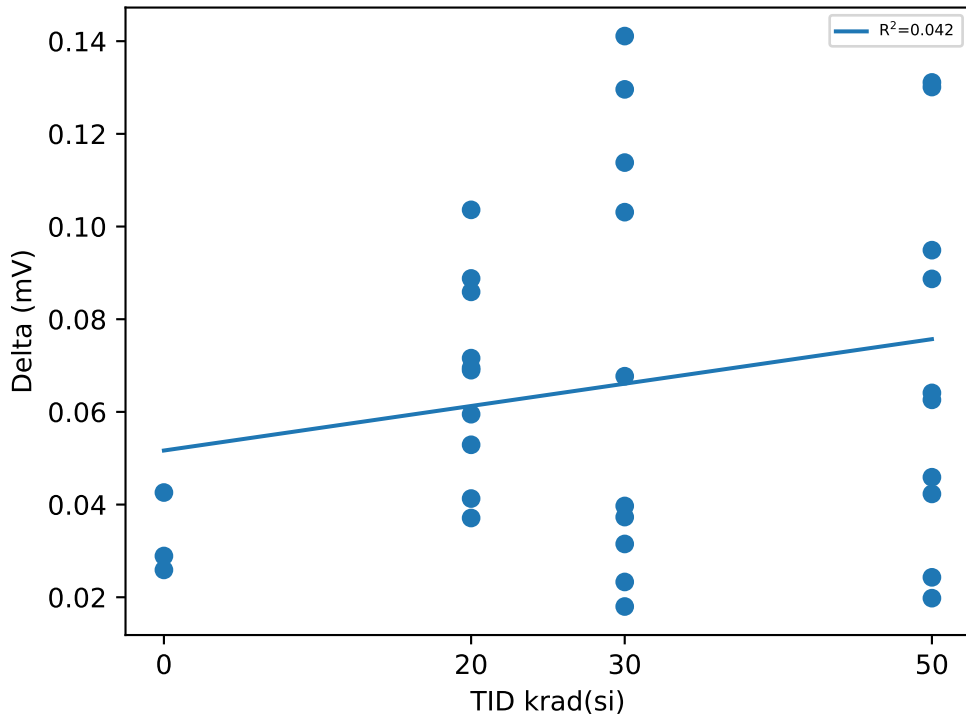
TID vs Result Stats



Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.8631	-0.7743	0.0888
22	20	HDR BIAS	0.5215	0.6074	0.0859
23	20	HDR BIAS	1.2959	1.3488	0.0529
24	20	HDR BIAS	1.0041	1.0731	0.069
25	20	HDR BIAS	-0.7789	-0.7194	0.0595
26	20	HDR UNBIAS	-0.9405	-0.871	0.0695
27	20	HDR UNBIAS	-0.1881	-0.151	0.0371
28	20	HDR UNBIAS	1.2009	1.2725	0.0716
29	20	HDR UNBIAS	-0.0831	0.0205	0.1036
30	20	HDR UNBIAS	1.2743	1.3156	0.0413
31	30	HDR BIAS	-0.7641	-0.7268	0.0373
32	30	HDR BIAS	0.22	0.3611	0.1411
33	30	HDR BIAS	1.4955	1.5135	0.018
34	30	HDR BIAS	0.8563	0.9701	0.1138
35	30	HDR BIAS	0.5085	0.5762	0.0677
36	30	HDR UNBIAS	1.8692	1.8925	0.0233
37	30	HDR UNBIAS	-1.5453	-1.4157	0.1296
38	30	HDR UNBIAS	1.2549	1.2946	0.0397
39	30	HDR UNBIAS	-0.1156	-0.0841	0.0315
40	30	HDR UNBIAS	0.1965	0.2996	0.1031
41	50	HDR BIAS	0.2505	0.3131	0.0626
42	50	HDR BIAS	0.4856	0.5805	0.0949
43	50	HDR BIAS	-0.0104	0.0094	0.0198
44	50	HDR BIAS	-0.2532	-0.2109	0.0423
45	50	HDR BIAS	1.4239	1.4482	0.0243
46	50	HDR UNBIAS	0.6701	0.7588	0.0887
47	50	HDR UNBIAS	0.2582	0.3223	0.0641
48	50	HDR UNBIAS	-0.1342	-0.0883	0.0459
49	50	HDR UNBIAS	-0.2132	-0.0831	0.1301
50	50	HDR UNBIAS	0.3231	0.4542	0.1311
71	0	CORRELATION	0.9444	0.987	0.0426
72	0	CORRELATION	0.03	0.0559	0.0259
73	0	CORRELATION	0.1884	0.2173	0.0289

TID vs Post - Pre Exposure Delta

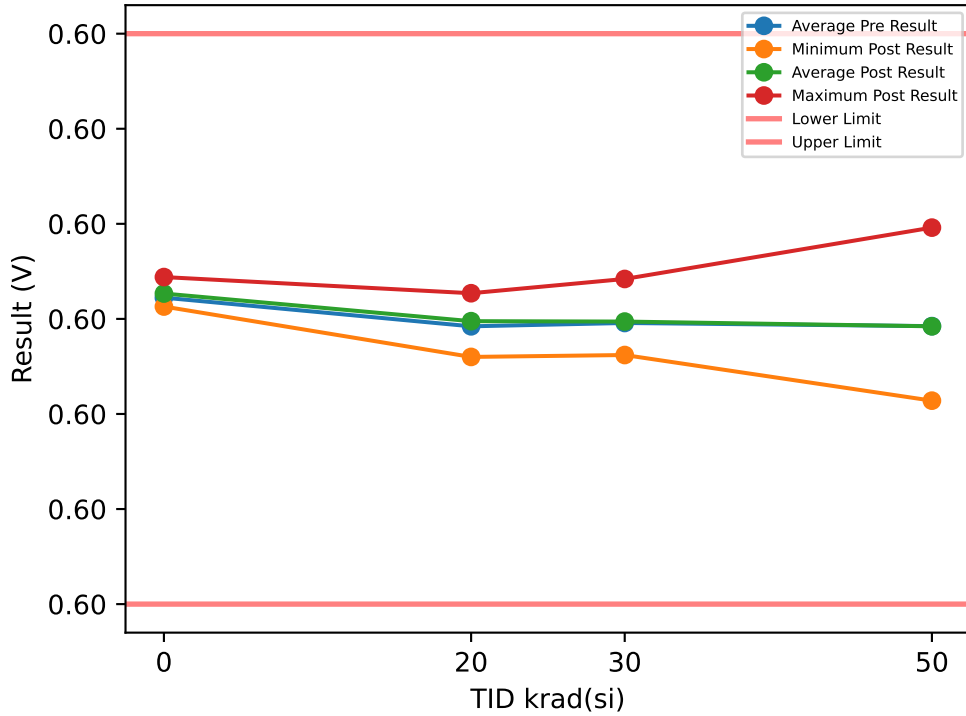


Test Statistics (mV)

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	0.03	0.3876	0.9444	0.48866	0.0559	0.42007	0.987	0.49757	0.0259	0.032467	0.0426	0.008903
20	-0.9405	0.2443	1.2959	0.92539	-0.871	0.31222	1.3488	0.91978	0.0371	0.06792	0.1036	0.021094
30	-1.5453	0.39759	1.8692	1.0429	-1.4157	0.4681	1.8925	1.0214	0.018	0.07051	0.1411	0.047115
50	-0.2532	0.28004	1.4239	0.50438	-0.2109	0.35042	1.4482	0.49995	0.0198	0.07038	0.1311	0.039944

# Device Test: 19.28 VOLTAGE|VREF//5/5/0/0/5/100kHz//@VREF\_25C

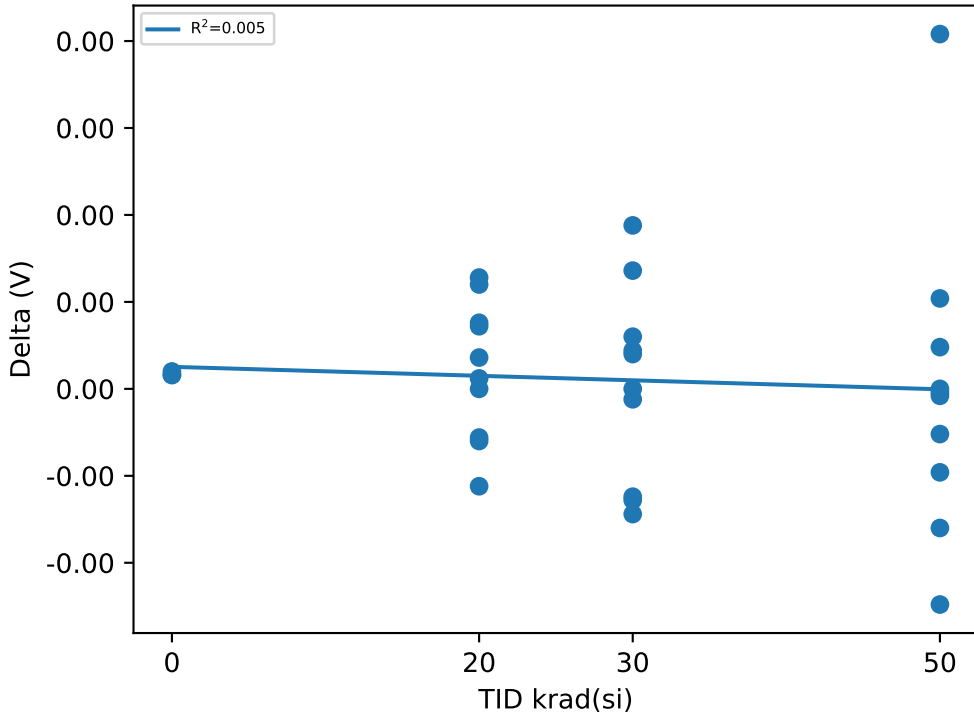
## TID vs Result Stats



## Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60028	0.6	-0.00028
22	20	HDR BIAS	0.59967	0.59999	0.00032
23	20	HDR BIAS	0.59982	0.60001	0.00019
24	20	HDR BIAS	0.60018	0.60018	0
25	20	HDR BIAS	0.59968	0.59998	0.0003
26	20	HDR UNBIAS	0.59975	0.5996	-0.00015
27	20	HDR UNBIAS	0.59971	0.5998	9e-05
28	20	HDR UNBIAS	0.6	0.60003	3e-05
29	20	HDR UNBIAS	0.60004	0.5999	-0.00014
30	20	HDR UNBIAS	0.60009	0.60027	0.00018
31	30	HDR BIAS	0.59994	0.59962	-0.00032
32	30	HDR BIAS	0.60014	0.60025	0.00011
33	30	HDR BIAS	0.60008	0.59977	-0.00031
34	30	HDR BIAS	0.59972	0.59987	0.00015
35	30	HDR BIAS	0.59971	0.60018	0.00047
36	30	HDR UNBIAS	0.60008	0.60042	0.00034
37	30	HDR UNBIAS	0.59985	0.59982	-3e-05
38	30	HDR UNBIAS	0.60005	0.59969	-0.00036
39	30	HDR UNBIAS	0.59976	0.59986	0.0001
40	30	HDR UNBIAS	0.60024	0.60024	0
41	50	HDR BIAS	0.59987	0.59925	-0.00062
42	50	HDR BIAS	0.59988	0.6	0.00012
43	50	HDR BIAS	0.59988	0.59987	-1e-05
44	50	HDR BIAS	0.59954	0.59914	-0.0004
45	50	HDR BIAS	0.60002	0.6	-2e-05
46	50	HDR UNBIAS	0.59994	0.60096	0.00102
47	50	HDR UNBIAS	0.60005	0.60005	0
48	50	HDR UNBIAS	0.60011	0.59987	-0.00024
49	50	HDR UNBIAS	0.60022	0.60009	-0.00013
50	50	HDR UNBIAS	0.59973	0.59999	0.00026
71	0	CORRELATION	0.60039	0.60044	5e-05
72	0	CORRELATION	0.60019	0.60023	4e-05
73	0	CORRELATION	0.60009	0.60013	4e-05

## TID vs Post - Pre Exposure Delta



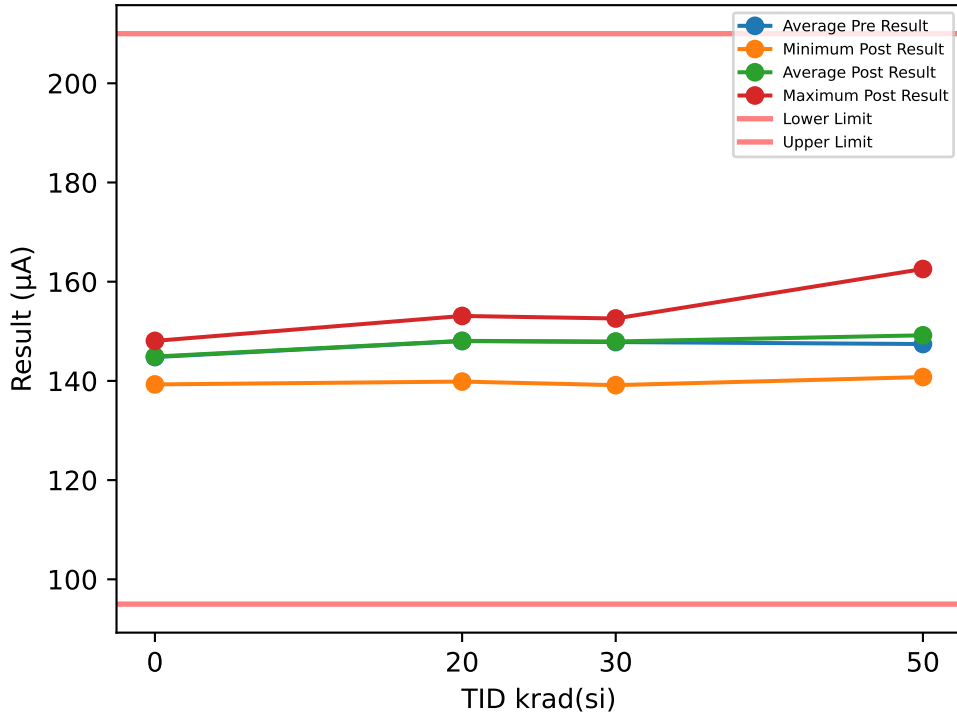
## Test Statistics (V)

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	0.60009	0.60022	0.60039	0.00015275	0.60013	0.60027	0.60044	0.00015822	4e-05	4.3333e-05	5e-05	5.7735e-06
20	0.59967	0.59992	0.60028	0.0002236	0.5996	0.59998	0.60027	0.0001859	-0.00028	5.4e-05	0.00032	0.00020034
30	0.59971	0.59996	0.60024	0.00018862	0.59962	0.59997	0.60042	0.00027555	-0.00036	1.5e-05	0.00047	0.00028045
50	0.59954	0.59992	0.60022	0.0001942	0.59914	0.59992	0.60096	0.00049524	-0.00062	-2e-06	0.00102	0.00043992



# Device Test: 19.3 CURRENT|EA\_SINK//4.5/4.5/0/0/4.5/500kHz//@EA\_I\_SINK

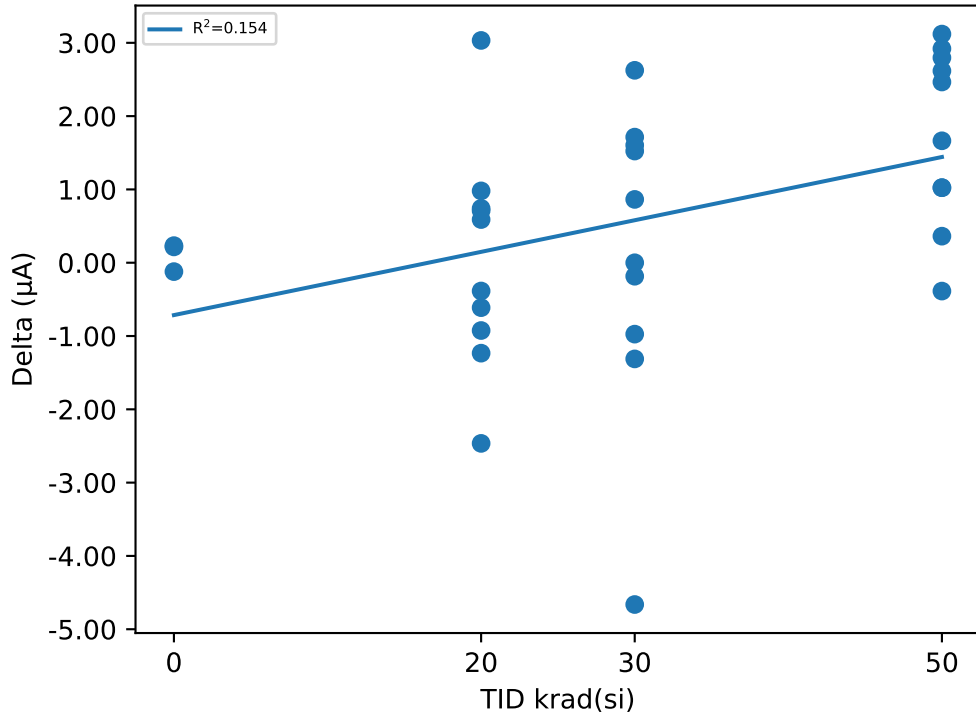
## TID vs Result Stats



## Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	144	147.03	3.0327
22	20	HDR BIAS	145.25	145.84	0.5891
23	20	HDR BIAS	146.64	147.38	0.7412
24	20	HDR BIAS	148.83	146.37	-2.4647
25	20	HDR BIAS	153.24	152.31	-0.9248
26	20	HDR UNBIAS	150.48	149.24	-1.2338
27	20	HDR UNBIAS	152.38	153.09	0.7096
28	20	HDR UNBIAS	149.48	150.46	0.98
29	20	HDR UNBIAS	149.53	149.15	-0.3857
30	20	HDR UNBIAS	140.48	139.87	-0.6129
31	30	HDR BIAS	149.04	148.86	-0.1843
32	30	HDR BIAS	152.39	152.39	-0.0006
33	30	HDR BIAS	147.04	149.67	2.625
34	30	HDR BIAS	147.88	149.48	1.6034
35	30	HDR BIAS	153.56	152.58	-0.9742
36	30	HDR UNBIAS	146.07	147.78	1.7136
37	30	HDR UNBIAS	142.68	144.21	1.5235
38	30	HDR UNBIAS	145.29	146.16	0.8638
39	30	HDR UNBIAS	153.86	149.2	-4.6629
40	30	HDR UNBIAS	140.46	139.15	-1.3122
41	50	HDR BIAS	140.3	143.42	3.1193
42	50	HDR BIAS	152.1	153.12	1.0238
43	50	HDR BIAS	144.75	144.36	-0.3868
44	50	HDR BIAS	150.26	151.92	1.6635
45	50	HDR BIAS	145.47	145.84	0.3623
46	50	HDR UNBIAS	146.91	149.83	2.9201
47	50	HDR UNBIAS	146.2	147.23	1.0236
48	50	HDR UNBIAS	138.31	140.78	2.4656
49	50	HDR UNBIAS	159.94	162.56	2.6169
50	50	HDR UNBIAS	150.1	152.9	2.7971
71	0	CORRELATION	147.15	147.38	0.2333
72	0	CORRELATION	139.41	139.29	-0.1212
73	0	CORRELATION	147.85	148.07	0.2159

## TID vs Post - Pre Exposure Delta

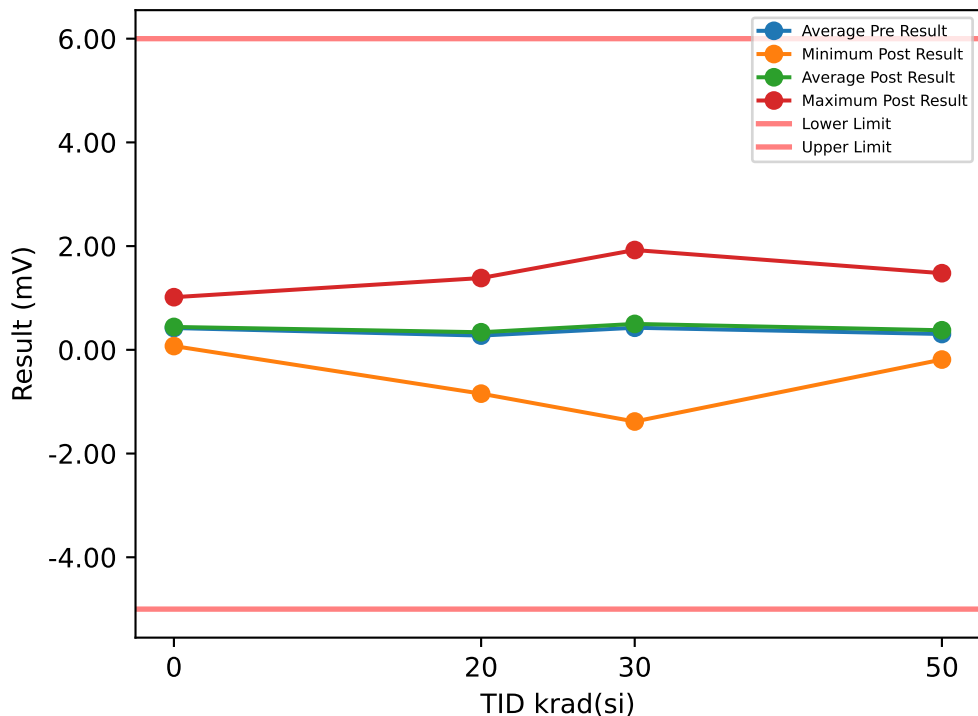


## Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	139.41	144.8	147.85	4.6827	139.29	144.91	148.07	4.8812	-0.1212	0.10933	0.2333	0.19984
20	140.48	148.03	153.24	3.9443	139.87	148.07	153.09	3.7745	-2.4647	0.04307	3.0327	1.5098
30	140.46	147.83	153.86	4.5026	139.15	147.95	152.58	3.9954	-4.6629	0.11951	2.625	2.1021
50	138.31	147.43	159.94	6.1493	140.78	149.19	162.56	6.3101	-0.3868	1.7605	3.1193	1.2091



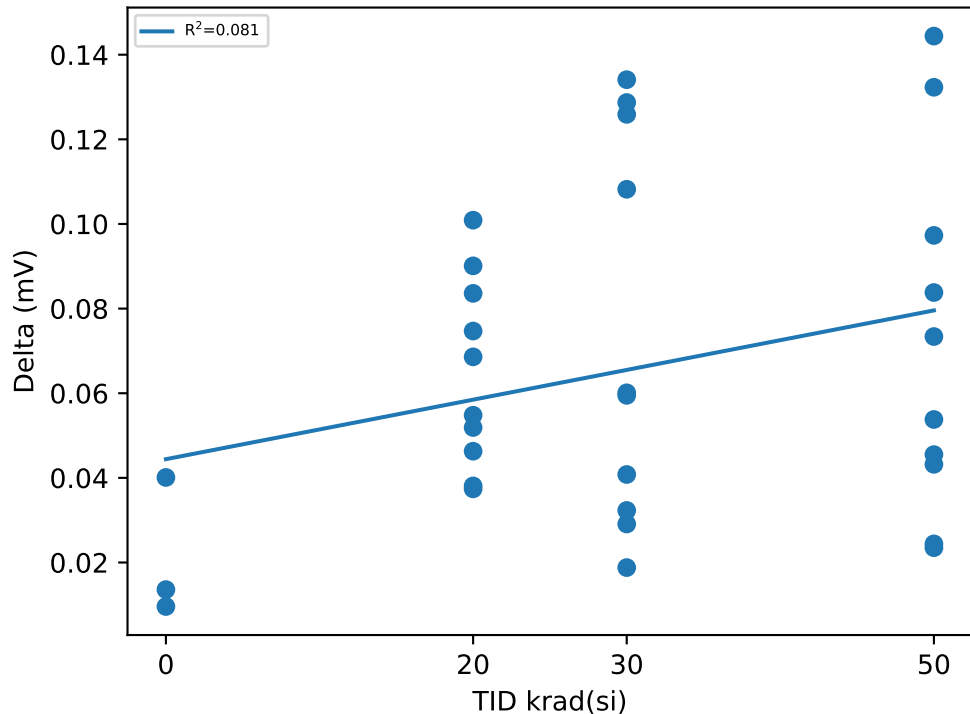
TID vs Result Stats



Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.8312	-0.7476	0.0836
22	20	HDR BIAS	0.5517	0.6418	0.0901
23	20	HDR BIAS	1.3295	1.3843	0.0548
24	20	HDR BIAS	1.0303	1.0989	0.0686
25	20	HDR BIAS	-0.7538	-0.7075	0.0463
26	20	HDR UNBIAS	-0.897	-0.8451	0.0519
27	20	HDR UNBIAS	-0.1584	-0.1203	0.0381
28	20	HDR UNBIAS	1.2216	1.2963	0.0747
29	20	HDR UNBIAS	-0.054	0.0469	0.1009
30	20	HDR UNBIAS	1.3067	1.3441	0.0374
31	30	HDR BIAS	-0.7356	-0.6948	0.0408
32	30	HDR BIAS	0.2487	0.3774	0.1287
33	30	HDR BIAS	1.5116	1.5439	0.0323
34	30	HDR BIAS	0.8918	1.0177	0.1259
35	30	HDR BIAS	0.5468	0.6063	0.0595
36	30	HDR UNBIAS	1.8954	1.9245	0.0291
37	30	HDR UNBIAS	-1.5164	-1.3823	0.1341
38	30	HDR UNBIAS	1.2763	1.3364	0.0601
39	30	HDR UNBIAS	-0.0777	-0.0589	0.0188
40	30	HDR UNBIAS	0.2178	0.326	0.1082
41	50	HDR BIAS	0.2746	0.3284	0.0538
42	50	HDR BIAS	0.5105	0.6078	0.0973
43	50	HDR BIAS	0.0244	0.0479	0.0235
44	50	HDR BIAS	-0.2332	-0.1877	0.0455
45	50	HDR BIAS	1.4534	1.4778	0.0244
46	50	HDR UNBIAS	0.6951	0.7789	0.0838
47	50	HDR UNBIAS	0.2779	0.3513	0.0734
48	50	HDR UNBIAS	-0.109	-0.0658	0.0432
49	50	HDR UNBIAS	-0.1846	-0.0523	0.1323
50	50	HDR UNBIAS	0.3427	0.4871	0.1444
71	0	CORRELATION	0.9749	1.015	0.0401
72	0	CORRELATION	0.0593	0.0729	0.0136
73	0	CORRELATION	0.2268	0.2364	0.0096

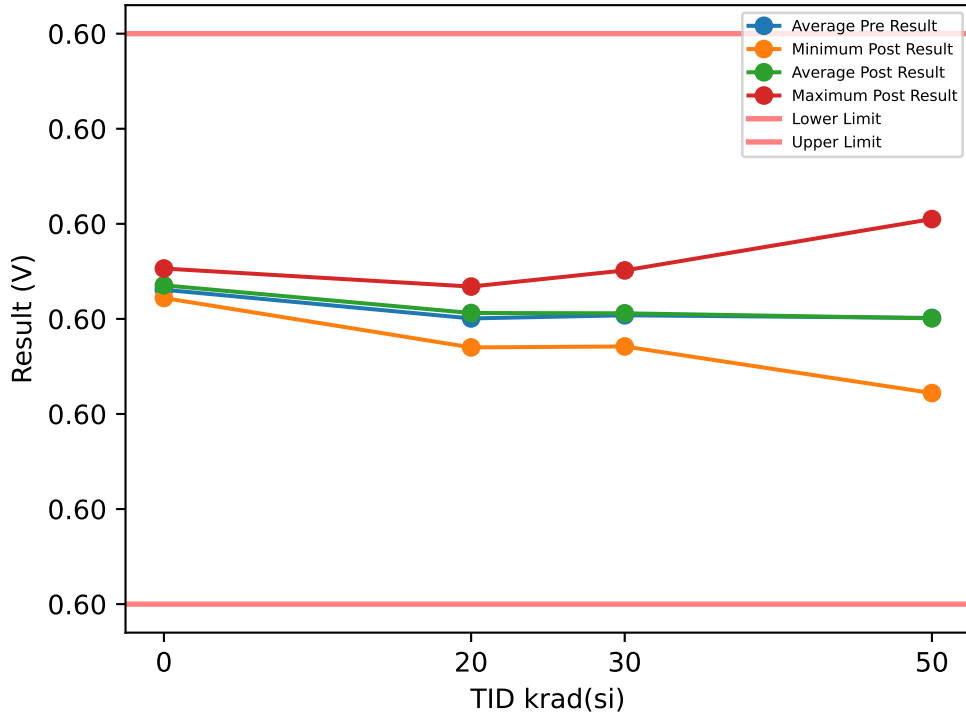
TID vs Post - Pre Exposure Delta



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	0.0593	0.42033	0.9749	0.48752	0.0729	0.44143	1.015	0.50341	0.0096	0.0211	0.0401	0.016576
20	-0.897	0.27454	1.3295	0.92323	-0.8451	0.33918	1.3843	0.92272	0.0374	0.06464	0.1009	0.022314
30	-1.5164	0.42587	1.8954	1.0405	-1.3823	0.49962	1.9245	1.0234	0.0188	0.07375	0.1341	0.045673
50	-0.2332	0.30518	1.4534	0.50506	-0.1877	0.37734	1.4778	0.49992	0.0235	0.07216	0.1444	0.042348

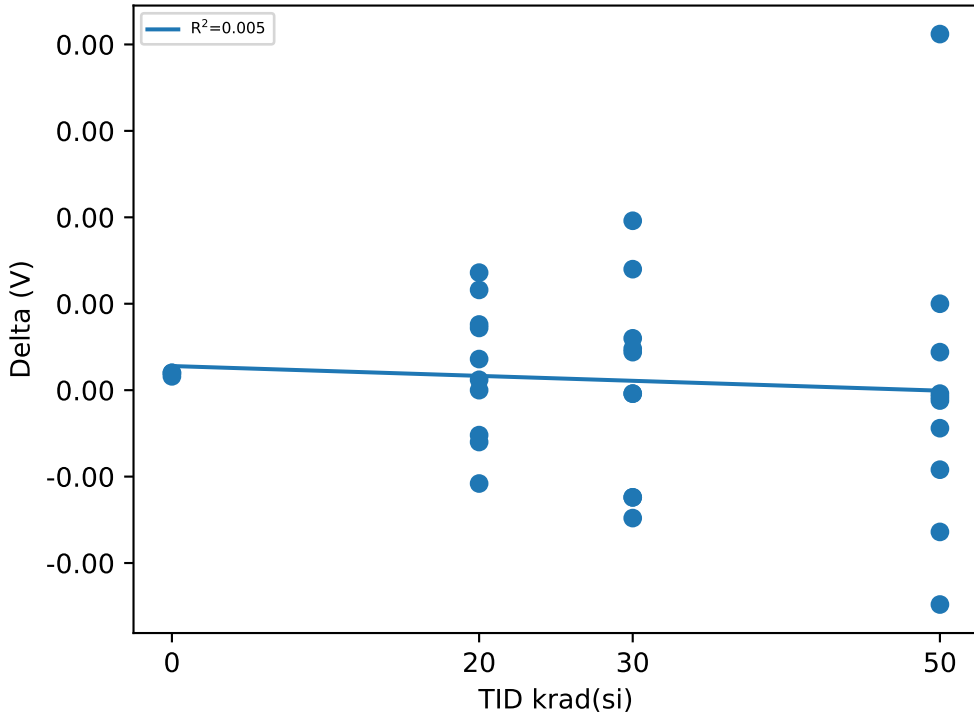
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60036	0.60009	-0.00027
22	20	HDR BIAS	0.59975	0.60009	0.00034
23	20	HDR BIAS	0.5999	0.60009	0.00019
24	20	HDR BIAS	0.60026	0.60026	0
25	20	HDR BIAS	0.59978	0.60007	0.00029
26	20	HDR UNBIAS	0.59983	0.5997	-0.00013
27	20	HDR UNBIAS	0.5998	0.59989	9e-05
28	20	HDR UNBIAS	0.60008	0.60011	3e-05
29	20	HDR UNBIAS	0.60013	0.59998	-0.00015
30	20	HDR UNBIAS	0.60016	0.60034	0.00018
31	30	HDR BIAS	0.60002	0.59971	-0.00031
32	30	HDR BIAS	0.60022	0.60034	0.00012
33	30	HDR BIAS	0.60017	0.59986	-0.00031
34	30	HDR BIAS	0.59981	0.59996	0.00015
35	30	HDR BIAS	0.59977	0.60026	0.00049
36	30	HDR UNBIAS	0.60016	0.60051	0.00035
37	30	HDR UNBIAS	0.59993	0.59992	-1e-05
38	30	HDR UNBIAS	0.60014	0.59977	-0.00037
39	30	HDR UNBIAS	0.59984	0.59995	0.00011
40	30	HDR UNBIAS	0.60032	0.60031	-1e-05
41	50	HDR BIAS	0.59995	0.59933	-0.00062
42	50	HDR BIAS	0.59996	0.60007	0.00011
43	50	HDR BIAS	0.59997	0.59995	-2e-05
44	50	HDR BIAS	0.59963	0.59922	-0.00041
45	50	HDR BIAS	0.60011	0.60008	-3e-05
46	50	HDR UNBIAS	0.60002	0.60105	0.00103
47	50	HDR UNBIAS	0.60014	0.60013	-1e-05
48	50	HDR UNBIAS	0.6002	0.59997	-0.00023
49	50	HDR UNBIAS	0.6003	0.60019	-0.00011
50	50	HDR UNBIAS	0.59982	0.60007	0.00025
71	0	CORRELATION	0.60048	0.60053	5e-05
72	0	CORRELATION	0.60027	0.60031	4e-05
73	0	CORRELATION	0.60017	0.60022	5e-05

TID vs Post - Pre Exposure Delta

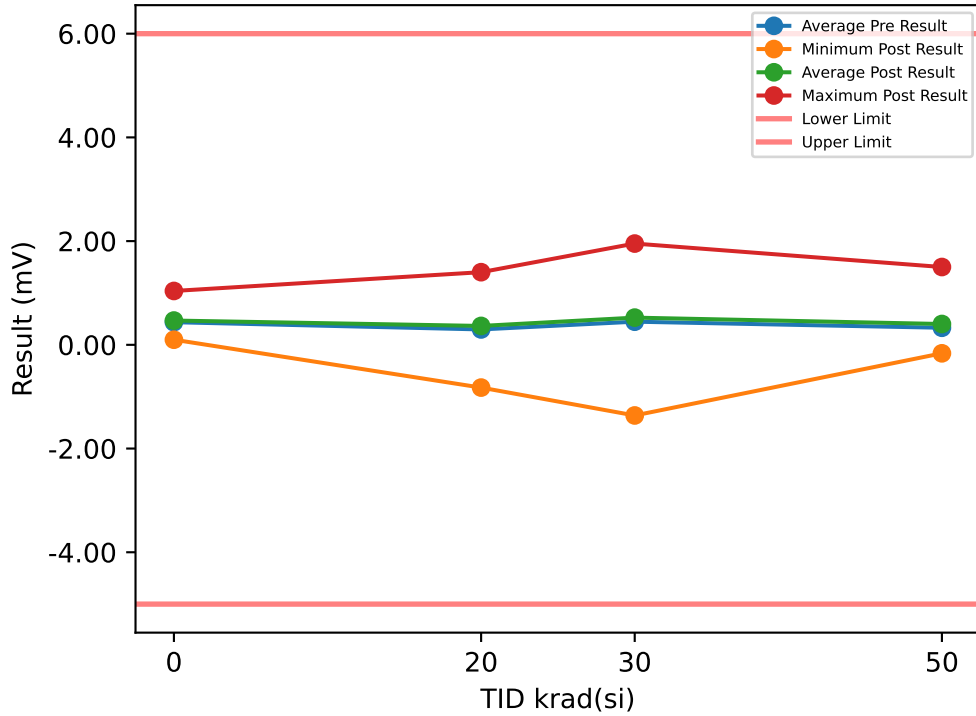


Test Statistics (V)

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	0.60017	0.60031	0.60048	0.00015822	0.60022	0.60035	0.60053	0.00015948	4e-05	4.6667e-05	5e-05	5.7735e-06
20	0.59975	0.60001	0.60036	0.00022001	0.5997	0.60006	0.60034	0.00017906	-0.00027	5.7e-05	0.00034	0.00019917
30	0.59977	0.60004	0.60032	0.00019159	0.59971	0.60006	0.60051	0.00027319	-0.00037	2.1e-05	0.00049	0.00028606
50	0.59963	0.60001	0.6003	0.00019305	0.59922	0.60001	0.60105	0.000498	-0.00062	-4e-06	0.00103	0.00044149

# Device Test: 19.33 VOLTAGE|OFFSET//12/12/0/0/5/100kHz//@EA\_OS

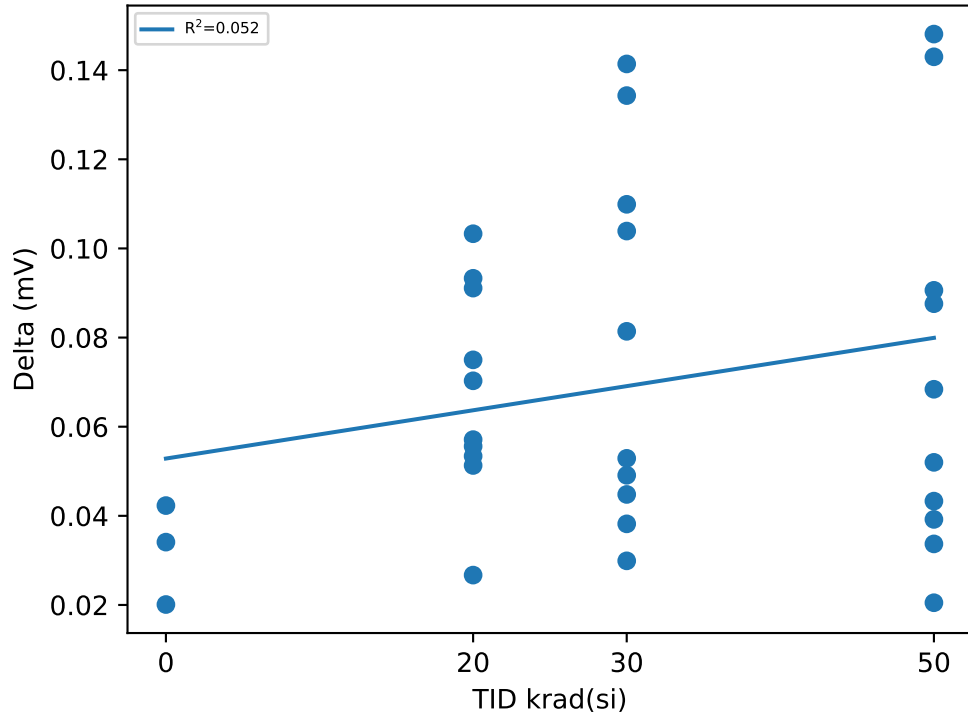
### TID vs Result Stats



### Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.8108	-0.7175	0.0933
22	20	HDR BIAS	0.5722	0.6633	0.0911
23	20	HDR BIAS	1.3495	1.4008	0.0513
24	20	HDR BIAS	1.0522	1.1225	0.0703
25	20	HDR BIAS	-0.7238	-0.6704	0.0534
26	20	HDR UNBIAS	-0.8801	-0.8245	0.0556
27	20	HDR UNBIAS	-0.1369	-0.0798	0.0571
28	20	HDR UNBIAS	1.2427	1.3177	0.075
29	20	HDR UNBIAS	-0.0274	0.0759	0.1033
30	20	HDR UNBIAS	1.3293	1.356	0.0267
31	30	HDR BIAS	-0.7116	-0.6625	0.0491
32	30	HDR BIAS	0.2737	0.408	0.1343
33	30	HDR BIAS	1.5435	1.5734	0.0299
34	30	HDR BIAS	0.9285	1.0324	0.1039
35	30	HDR BIAS	0.5465	0.6279	0.0814
36	30	HDR UNBIAS	1.9145	1.9527	0.0382
37	30	HDR UNBIAS	-1.5035	-1.3621	0.1414
38	30	HDR UNBIAS	1.3004	1.3533	0.0529
39	30	HDR UNBIAS	-0.0758	-0.031	0.0448
40	30	HDR UNBIAS	0.2438	0.3537	0.1099
41	50	HDR BIAS	0.2954	0.3474	0.052
42	50	HDR BIAS	0.5329	0.6205	0.0876
43	50	HDR BIAS	0.0475	0.068	0.0205
44	50	HDR BIAS	-0.2029	-0.1637	0.0392
45	50	HDR BIAS	1.4668	1.5005	0.0337
46	50	HDR UNBIAS	0.7199	0.8105	0.0906
47	50	HDR UNBIAS	0.3082	0.3766	0.0684
48	50	HDR UNBIAS	-0.077	-0.0337	0.0433
49	50	HDR UNBIAS	-0.1695	-0.0214	0.1481
50	50	HDR UNBIAS	0.3681	0.5111	0.143
71	0	CORRELATION	0.9963	1.0386	0.0423
72	0	CORRELATION	0.0786	0.0987	0.0201
73	0	CORRELATION	0.2336	0.2677	0.0341

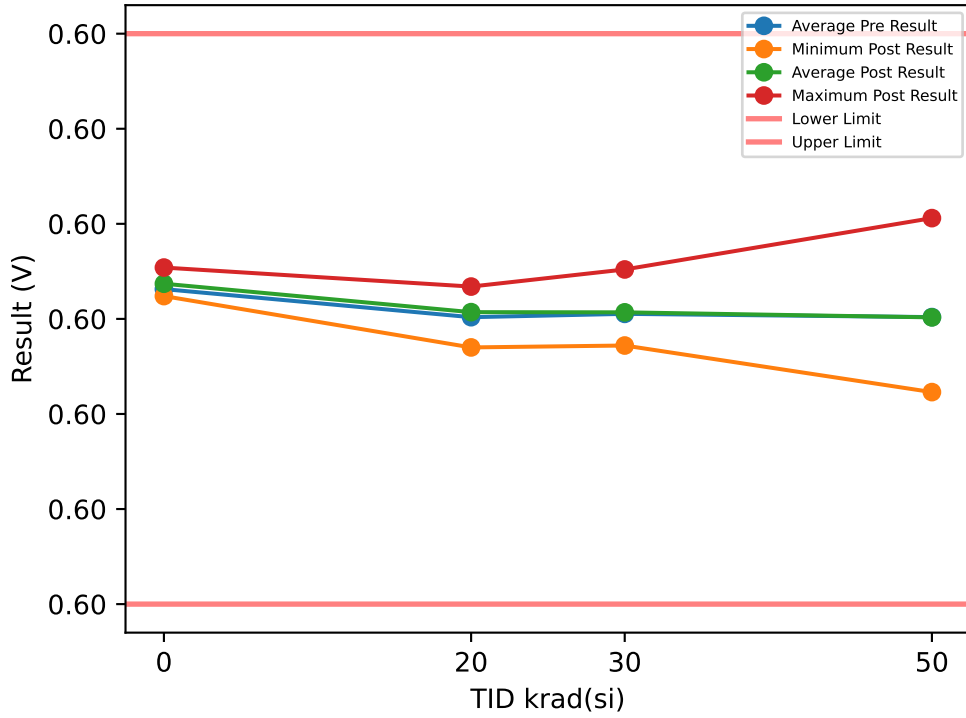
### TID vs Post - Pre Exposure Delta



### 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	0.0786	0.43617	0.9963	0.49124	0.0987	0.46833	1.0386	0.50104	0.0201	0.032167	0.0423	0.011226
20	-0.8801	0.29669	1.3495	0.92269	-0.8245	0.3644	1.4008	0.91685	0.0267	0.06771	0.1033	0.023437
30	-1.5035	0.446	1.9145	1.0444	-1.3621	0.52458	1.9527	1.0228	0.0299	0.07858	0.1414	0.0413
50	-0.2029	0.32894	1.4668	0.50195	-0.1637	0.40158	1.5005	0.49861	0.0205	0.07264	0.1481	0.044533

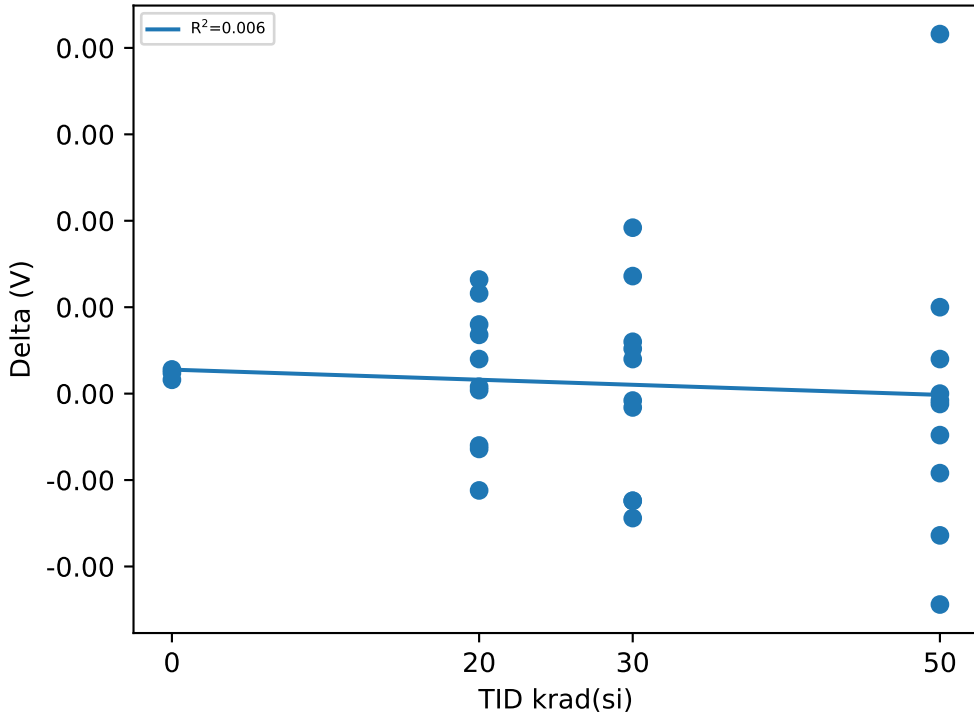
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60038	0.6001	-0.00028
22	20	HDR BIAS	0.59976	0.60009	0.00033
23	20	HDR BIAS	0.59991	0.60011	0.0002
24	20	HDR BIAS	0.60027	0.60028	1e-05
25	20	HDR BIAS	0.59979	0.60008	0.00029
26	20	HDR UNBIAS	0.59986	0.5997	-0.00016
27	20	HDR UNBIAS	0.5998	0.5999	0.0001
28	20	HDR UNBIAS	0.6001	0.60012	2e-05
29	20	HDR UNBIAS	0.60014	0.59999	-0.00015
30	20	HDR UNBIAS	0.60017	0.60034	0.00017
31	30	HDR BIAS	0.60003	0.59972	-0.00031
32	30	HDR BIAS	0.60022	0.60035	0.00013
33	30	HDR BIAS	0.60018	0.59987	-0.00031
34	30	HDR BIAS	0.59981	0.59996	0.00015
35	30	HDR BIAS	0.5998	0.60028	0.00048
36	30	HDR UNBIAS	0.60018	0.60052	0.00034
37	30	HDR UNBIAS	0.59996	0.59992	-4e-05
38	30	HDR UNBIAS	0.60015	0.59979	-0.00036
39	30	HDR UNBIAS	0.59986	0.59996	0.0001
40	30	HDR UNBIAS	0.60034	0.60032	-2e-05
41	50	HDR BIAS	0.59996	0.59935	-0.00061
42	50	HDR BIAS	0.59998	0.60008	0.0001
43	50	HDR BIAS	0.59997	0.59995	-2e-05
44	50	HDR BIAS	0.59964	0.59923	-0.00041
45	50	HDR BIAS	0.60012	0.60009	-3e-05
46	50	HDR UNBIAS	0.60002	0.60106	0.00104
47	50	HDR UNBIAS	0.60014	0.60014	0
48	50	HDR UNBIAS	0.60021	0.59998	-0.00023
49	50	HDR UNBIAS	0.60032	0.6002	-0.00012
50	50	HDR UNBIAS	0.59983	0.60008	0.00025
71	0	CORRELATION	0.60048	0.60054	6e-05
72	0	CORRELATION	0.60029	0.60033	4e-05
73	0	CORRELATION	0.60017	0.60024	7e-05

TID vs Post - Pre Exposure Delta

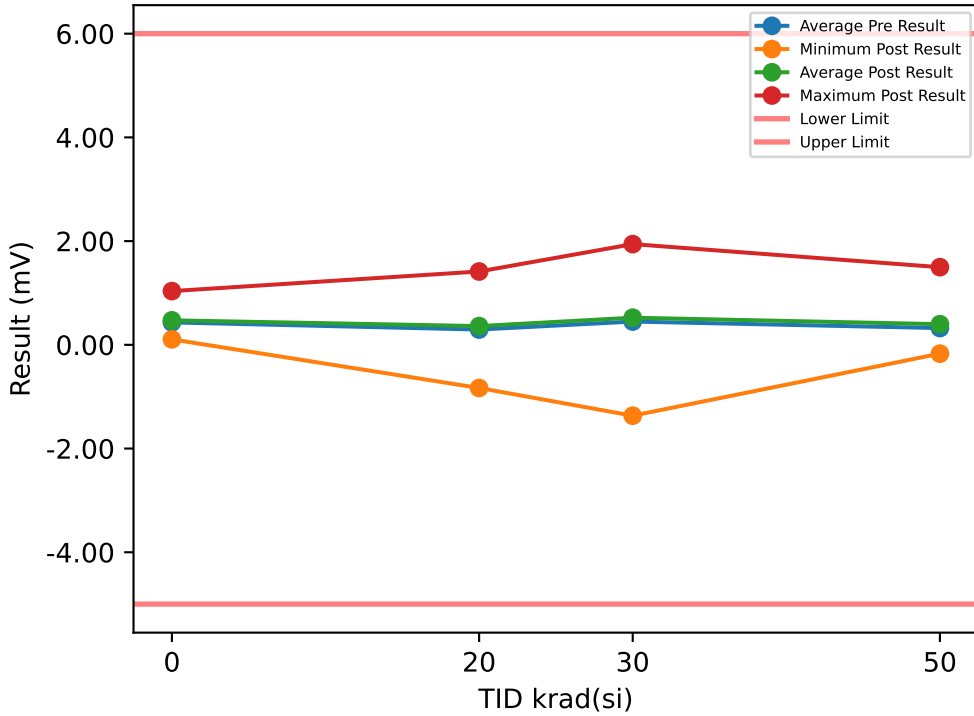


Test Statistics (V)

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	0.60017	0.60031	0.60048	0.00015631	0.60024	0.60037	0.60054	0.00015395	4e-05	5.6667e-05	7e-05	1.5275e-05
20	0.59976	0.60002	0.60038	0.0002216	0.5997	0.60007	0.60034	0.00018095	-0.00028	5.3e-05	0.00033	0.00020298
30	0.5998	0.60005	0.60034	0.00018898	0.59972	0.60007	0.60052	0.00027388	-0.00036	1.6e-05	0.00048	0.00028218
50	0.59964	0.60002	0.60032	0.00019399	0.59923	0.60002	0.60106	0.00049664	-0.00061	-3e-06	0.00104	0.00044257

# Device Test: 19.36 VOLTAGE|OFFSET//14/14/0/0/5/100kHz//@EA\_OS

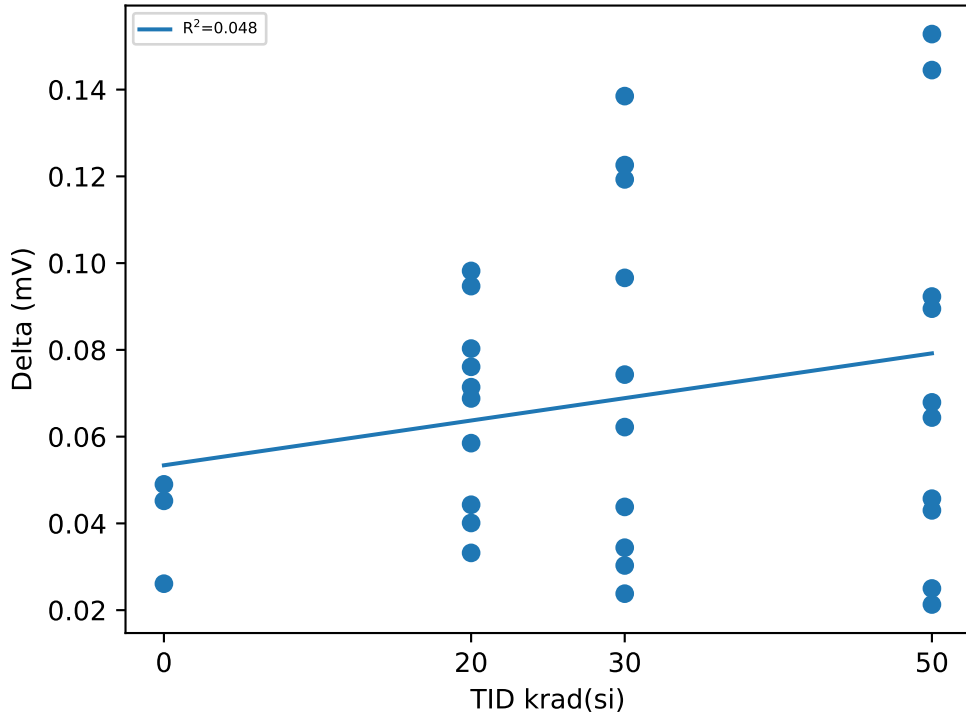
### TID vs Result Stats



### Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.8088	-0.7141	0.0947
22	20	HDR BIAS	0.5736	0.6539	0.0803
23	20	HDR BIAS	1.3452	1.414	0.0688
24	20	HDR BIAS	1.0475	1.1236	0.0761
25	20	HDR BIAS	-0.726	-0.6817	0.0443
26	20	HDR UNBIAS	-0.8721	-0.832	0.0401
27	20	HDR UNBIAS	-0.1463	-0.0878	0.0585
28	20	HDR UNBIAS	1.2406	1.312	0.0714
29	20	HDR UNBIAS	-0.0292	0.069	0.0982
30	20	HDR UNBIAS	1.3232	1.3564	0.0332
31	30	HDR BIAS	-0.7107	-0.6669	0.0438
32	30	HDR BIAS	0.2646	0.4031	0.1385
33	30	HDR BIAS	1.5411	1.5714	0.0303
34	30	HDR BIAS	0.9128	1.0354	0.1226
35	30	HDR BIAS	0.5573	0.6316	0.0743
36	30	HDR UNBIAS	1.9182	1.942	0.0238
37	30	HDR UNBIAS	-1.4858	-1.3665	0.1193
38	30	HDR UNBIAS	1.3005	1.3627	0.0622
39	30	HDR UNBIAS	-0.0579	-0.0235	0.0344
40	30	HDR UNBIAS	0.2449	0.3415	0.0966
41	50	HDR BIAS	0.2942	0.3586	0.0644
42	50	HDR BIAS	0.5344	0.6267	0.0923
43	50	HDR BIAS	0.0351	0.0564	0.0213
44	50	HDR BIAS	-0.2161	-0.1704	0.0457
45	50	HDR BIAS	1.4725	1.4975	0.025
46	50	HDR UNBIAS	0.713	0.8025	0.0895
47	50	HDR UNBIAS	0.2987	0.3666	0.0679
48	50	HDR UNBIAS	-0.0917	-0.0487	0.043
49	50	HDR UNBIAS	-0.1695	-0.0167	0.1528
50	50	HDR UNBIAS	0.3609	0.5054	0.1445
71	0	CORRELATION	0.9908	1.036	0.0452
72	0	CORRELATION	0.0793	0.1054	0.0261
73	0	CORRELATION	0.2262	0.2752	0.049

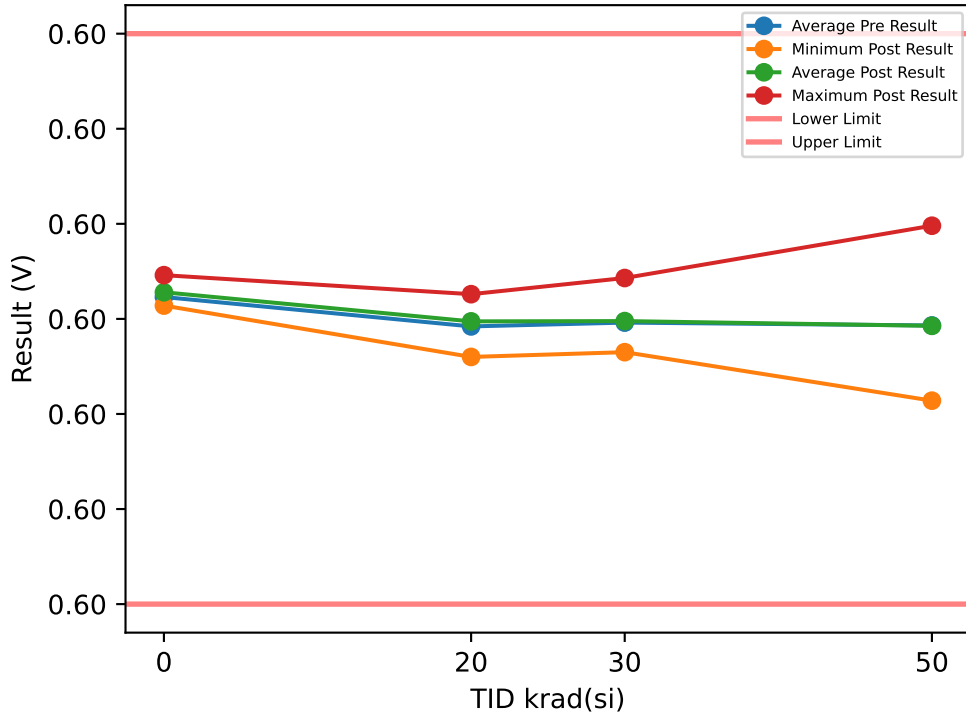
### TID vs Post - Pre Exposure Delta



### 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	0.0793	0.4321	0.9908	0.48939	0.1054	0.4722	1.036	0.49559	0.0261	0.0401	0.049	0.012272
20	-0.8721	0.29477	1.3452	0.9202	-0.832	0.36133	1.414	0.92041	0.0332	0.06656	0.0982	0.022298
30	-1.4858	0.4485	1.9182	1.0394	-1.3665	0.52308	1.942	1.0233	0.0238	0.07458	0.1385	0.042336
50	-0.2161	0.32315	1.4725	0.50652	-0.1704	0.39779	1.4975	0.50002	0.0213	0.07464	0.1528	0.045729

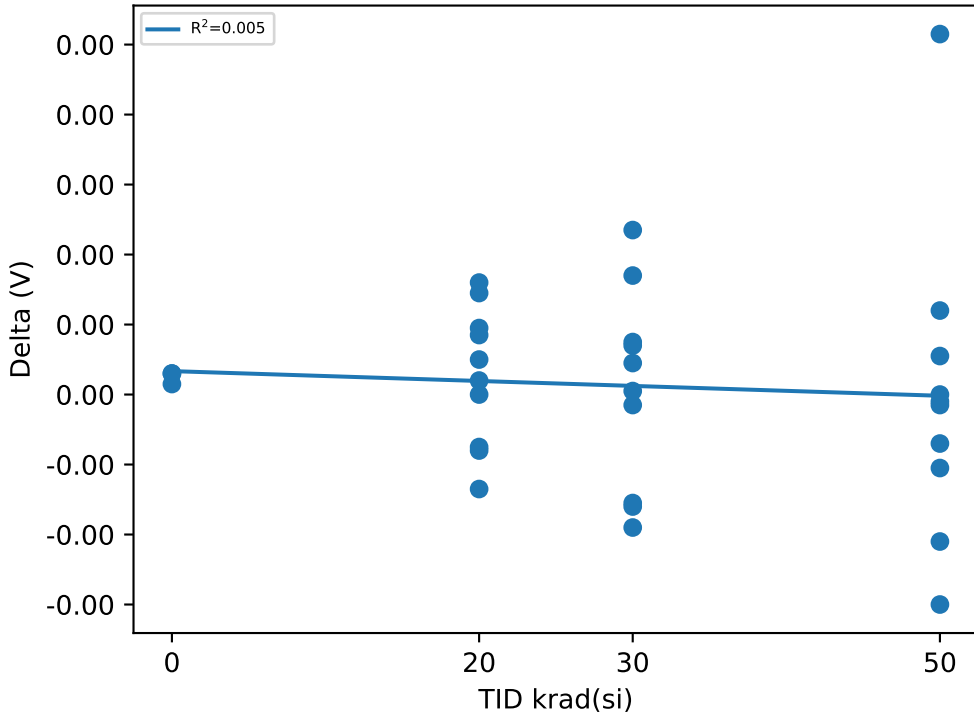
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60028	0.60001	-0.00027
22	20	HDR BIAS	0.59967	0.59999	0.00032
23	20	HDR BIAS	0.59981	0.6	0.00019
24	20	HDR BIAS	0.60018	0.60018	0
25	20	HDR BIAS	0.59969	0.59998	0.00029
26	20	HDR UNBIAS	0.59975	0.5996	-0.00015
27	20	HDR UNBIAS	0.5997	0.5998	0.0001
28	20	HDR UNBIAS	0.59999	0.60003	4e-05
29	20	HDR UNBIAS	0.60005	0.59989	-0.00016
30	20	HDR UNBIAS	0.60009	0.60026	0.00017
31	30	HDR BIAS	0.59996	0.59965	-0.00031
32	30	HDR BIAS	0.60012	0.60026	0.00014
33	30	HDR BIAS	0.60008	0.59976	-0.00032
34	30	HDR BIAS	0.59972	0.59987	0.00015
35	30	HDR BIAS	0.59971	0.60018	0.00047
36	30	HDR UNBIAS	0.60009	0.60043	0.00034
37	30	HDR UNBIAS	0.59985	0.59982	-3e-05
38	30	HDR UNBIAS	0.60005	0.59967	-0.00038
39	30	HDR UNBIAS	0.59977	0.59986	9e-05
40	30	HDR UNBIAS	0.60026	0.60027	1e-05
41	50	HDR BIAS	0.59986	0.59926	-0.0006
42	50	HDR BIAS	0.59988	0.59999	0.00011
43	50	HDR BIAS	0.5999	0.59987	-3e-05
44	50	HDR BIAS	0.59956	0.59914	-0.00042
45	50	HDR BIAS	0.60002	0.6	-2e-05
46	50	HDR UNBIAS	0.59995	0.60098	0.00103
47	50	HDR UNBIAS	0.60006	0.60006	0
48	50	HDR UNBIAS	0.60011	0.5999	-0.00021
49	50	HDR UNBIAS	0.60022	0.60008	-0.00014
50	50	HDR UNBIAS	0.59975	0.59999	0.00024
71	0	CORRELATION	0.6004	0.60046	6e-05
72	0	CORRELATION	0.60021	0.60024	3e-05
73	0	CORRELATION	0.60008	0.60014	6e-05

TID vs Post - Pre Exposure Delta

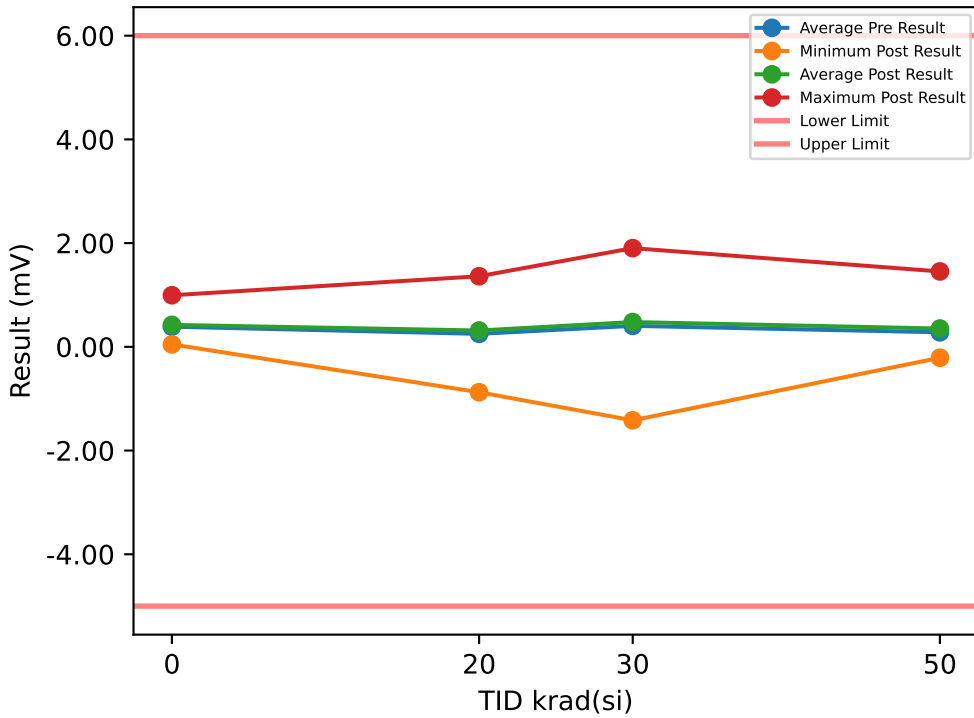


Test Statistics (V)

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	0.60008	0.60023	0.6004	0.00016093	0.60014	0.60028	0.60046	0.00016371	3e-05	5e-05	6e-05	1.7321e-05
20	0.59967	0.59992	0.60028	0.00022427	0.5996	0.59997	0.60026	0.00018464	-0.00027	5.3e-05	0.00032	0.00019889
30	0.59971	0.59996	0.60026	0.00018953	0.59965	0.59998	0.60043	0.00028095	-0.00038	1.6e-05	0.00047	0.00028442
50	0.59956	0.59993	0.60022	0.00018841	0.59914	0.59993	0.60098	0.00049793	-0.0006	-4e-06	0.00103	0.00043866



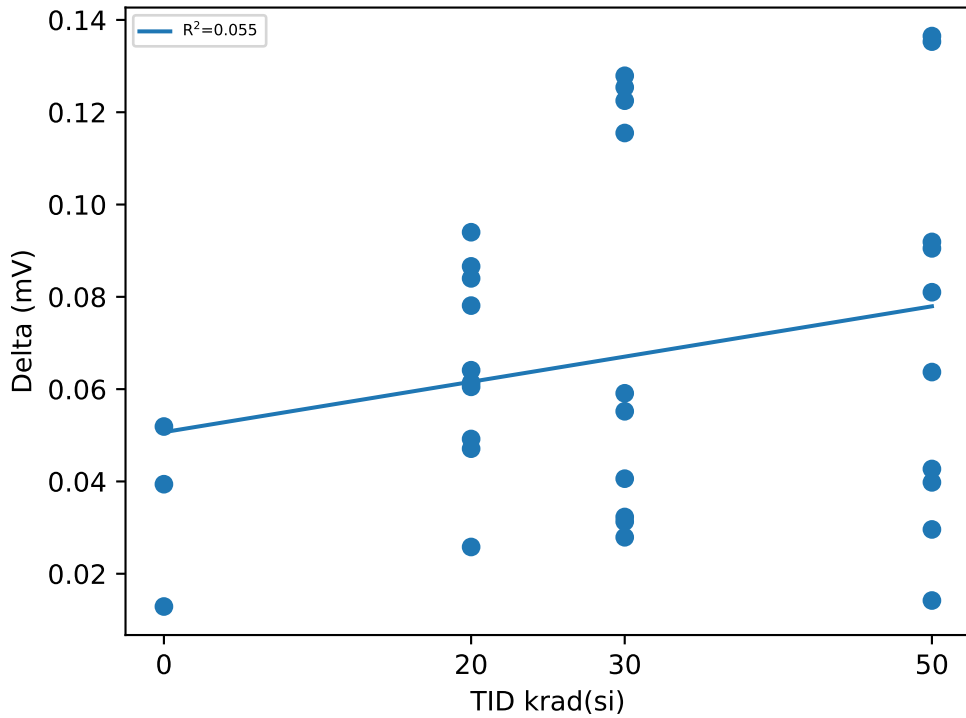
TID vs Result Stats



Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.8556	-0.769	0.0866
22	20	HDR BIAS	0.5279	0.6119	0.084
23	20	HDR BIAS	1.2965	1.3606	0.0641
24	20	HDR BIAS	1.0149	1.0763	0.0614
25	20	HDR BIAS	-0.772	-0.7249	0.0471
26	20	HDR UNBIAS	-0.936	-0.8755	0.0605
27	20	HDR UNBIAS	-0.1891	-0.1399	0.0492
28	20	HDR UNBIAS	1.1944	1.2725	0.0781
29	20	HDR UNBIAS	-0.0758	0.0182	0.094
30	20	HDR UNBIAS	1.2913	1.3171	0.0258
31	30	HDR BIAS	-0.7568	-0.7162	0.0406
32	30	HDR BIAS	0.2354	0.3633	0.1279
33	30	HDR BIAS	1.4913	1.5226	0.0313
34	30	HDR BIAS	0.8711	0.9936	0.1225
35	30	HDR BIAS	0.5185	0.5776	0.0591
36	30	HDR UNBIAS	1.8753	1.9032	0.0279
37	30	HDR UNBIAS	-1.5329	-1.4174	0.1155
38	30	HDR UNBIAS	1.2509	1.3061	0.0552
39	30	HDR UNBIAS	-0.1093	-0.077	0.0323
40	30	HDR UNBIAS	0.196	0.3214	0.1254
41	50	HDR BIAS	0.2566	0.3203	0.0637
42	50	HDR BIAS	0.487	0.5789	0.0919
43	50	HDR BIAS	-0.0036	0.0106	0.0142
44	50	HDR BIAS	-0.2508	-0.211	0.0398
45	50	HDR BIAS	1.4243	1.4539	0.0296
46	50	HDR UNBIAS	0.6682	0.7587	0.0905
47	50	HDR UNBIAS	0.2492	0.3302	0.081
48	50	HDR UNBIAS	-0.1339	-0.0912	0.0427
49	50	HDR UNBIAS	-0.2117	-0.0764	0.1353
50	50	HDR UNBIAS	0.3175	0.454	0.1365
71	0	CORRELATION	0.9427	0.9946	0.0519
72	0	CORRELATION	0.0346	0.0475	0.0129
73	0	CORRELATION	0.1885	0.2279	0.0394

TID vs Post - Pre Exposure Delta



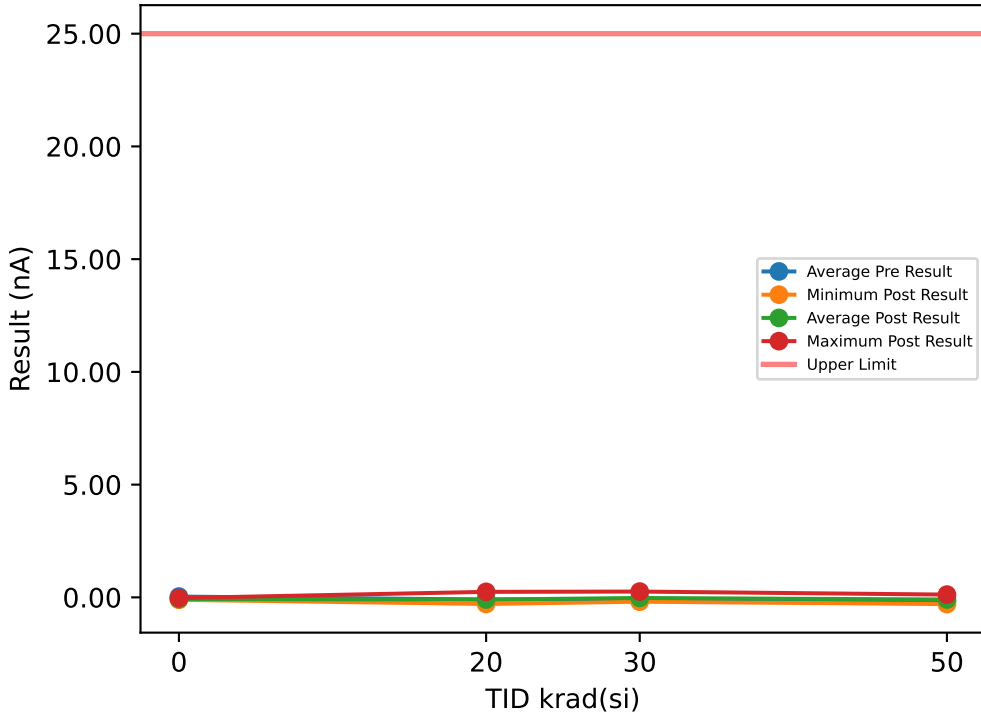
Test Statistics (mV)

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	0.0346	0.3886	0.9427	0.486	0.0475	0.42333	0.9946	0.50289	0.0129	0.034733	0.0519	0.019914
20	-0.936	0.24965	1.2965	0.92533	-0.8755	0.31473	1.3606	0.922	0.0258	0.06508	0.094	0.021031
30	-1.5329	0.40395	1.8753	1.0397	-1.4174	0.47772	1.9032	1.0246	0.0279	0.07377	0.1279	0.043461
50	-0.2508	0.28028	1.4243	0.50345	-0.211	0.3528	1.4539	0.50071	0.0142	0.07252	0.1365	0.042278



# Device Test: 19.4 CURRENT|EA//4.5/4.5/0/0/4.5/500kHz//@EA\_IB

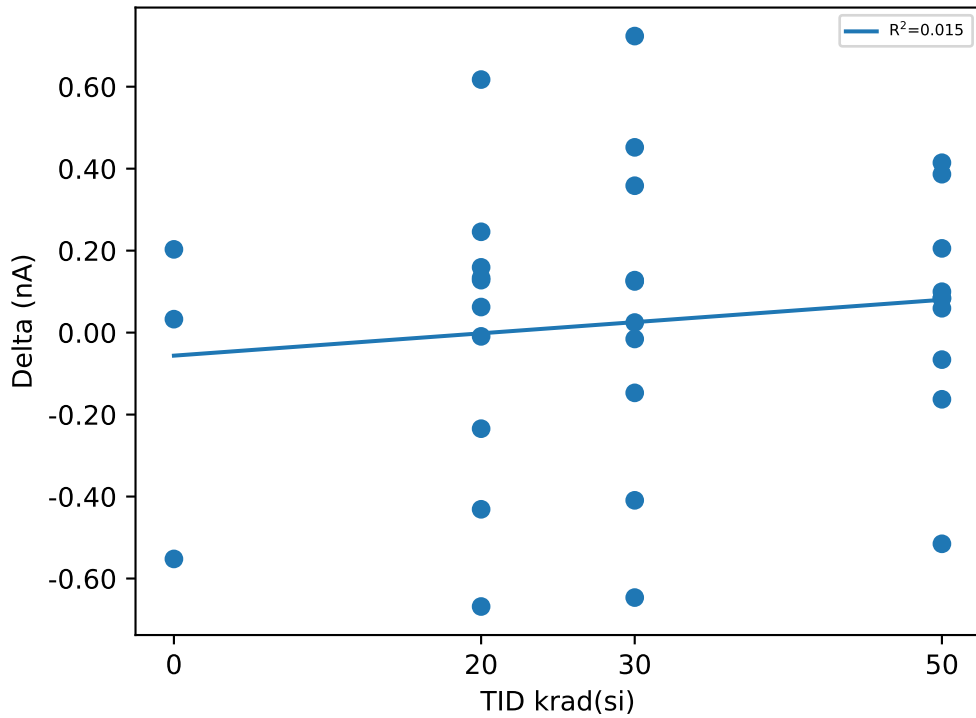
## TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.2925	-0.1645	0.128
22	20	HDR BIAS	-0.0589	-0.2933	-0.2344
23	20	HDR BIAS	-0.3074	-0.1737	0.1337
24	20	HDR BIAS	-0.1958	-0.205	-0.0092
25	20	HDR BIAS	0.5279	-0.1404	-0.6683
26	20	HDR UNBIAS	-0.2106	0.0354	0.246
27	20	HDR UNBIAS	-0.1833	-0.1209	0.0624
28	20	HDR UNBIAS	0.4499	0.0188	-0.4311
29	20	HDR UNBIAS	-0.3729	0.2445	0.6174
30	20	HDR UNBIAS	-0.3175	-0.1583	0.1592
31	30	HDR BIAS	-0.0121	0.0125	0.0246
32	30	HDR BIAS	-0.4665	0.257	0.7235
33	30	HDR BIAS	-0.2832	-0.1552	0.128
34	30	HDR BIAS	0.0316	-0.1154	-0.147
35	30	HDR BIAS	-0.4322	0.0198	0.452
36	30	HDR UNBIAS	-0.2769	-0.1521	0.1248
37	30	HDR UNBIAS	0.6684	0.0219	-0.6465
38	30	HDR UNBIAS	-0.1576	0.2008	0.3584
39	30	HDR UNBIAS	-0.177	-0.1925	-0.0155
40	30	HDR UNBIAS	0.2345	-0.1747	-0.4092
41	50	HDR BIAS	-0.2637	-0.0582	0.2055
42	50	HDR BIAS	-0.2145	-0.1303	0.0842
43	50	HDR BIAS	-0.0339	-0.0998	-0.0659
44	50	HDR BIAS	-0.376	0.0385	0.4145
45	50	HDR BIAS	-0.2207	-0.1209	0.0998
46	50	HDR UNBIAS	0.2158	-0.2995	-0.5153
47	50	HDR UNBIAS	-0.2949	-0.2112	0.0837
48	50	HDR UNBIAS	-0.227	-0.1676	0.0594
49	50	HDR UNBIAS	0.1409	-0.0218	-0.1627
50	50	HDR UNBIAS	-0.2637	0.1228	0.3865
71	0	CORRELATION	-0.142	-0.1092	0.0328
72	0	CORRELATION	-0.2332	-0.0301	0.2031
73	0	CORRELATION	0.4811	-0.0711	-0.5522

## TID vs Post - Pre Exposure Delta

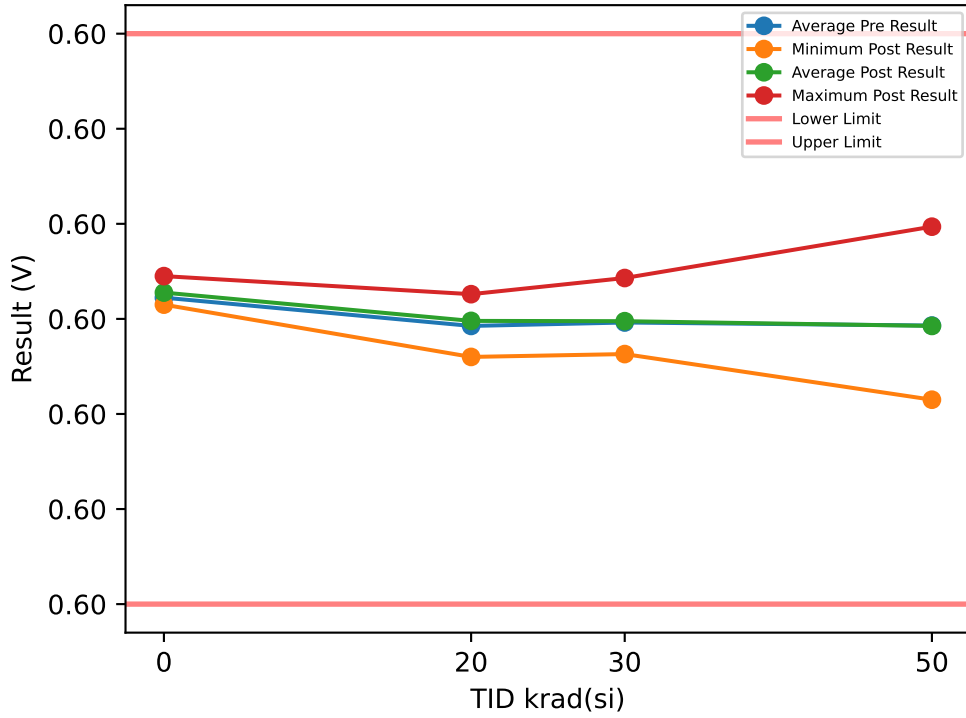


## Test Statistics (nA)

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	-0.2332	0.0353	0.4811	0.38876	-0.1092	-0.070133	-0.0301	0.039559	-0.5522	-0.10543	0.2031	0.39617
20	-0.3729	-0.09611	0.5279	0.32118	-0.2933	-0.09574	0.2445	0.15434	-0.6683	0.00037	0.6174	0.36404
30	-0.4665	-0.0871	0.6684	0.34067	-0.1925	-0.02779	0.257	0.15909	-0.6465	0.05931	0.7235	0.40289
50	-0.376	-0.15377	0.2158	0.19573	-0.2995	-0.0948	0.1228	0.12225	-0.5153	0.05897	0.4145	0.26927

# Device Test: 19.40 VOLTAGE|VREF//5/5/0/0/5/500kHz//@VREF\_25C

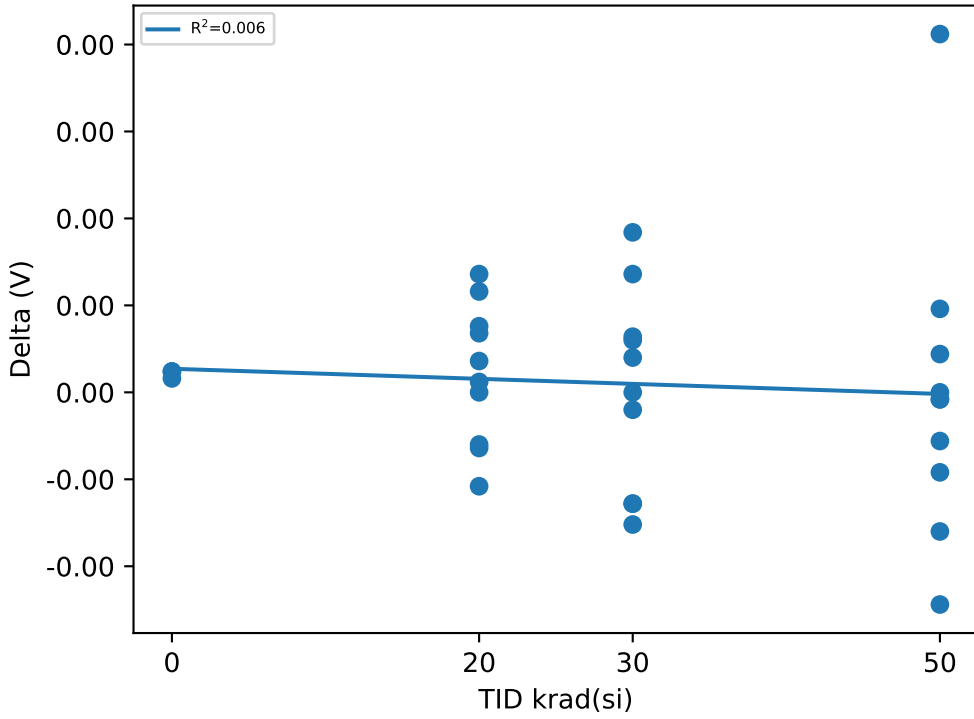
## TID vs Result Stats



## Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60029	0.60002	-0.00027
22	20	HDR BIAS	0.59966	0.6	0.00034
23	20	HDR BIAS	0.59982	0.60001	0.00019
24	20	HDR BIAS	0.60018	0.60018	0
25	20	HDR BIAS	0.5997	0.59999	0.00029
26	20	HDR UNBIAS	0.59976	0.5996	-0.00016
27	20	HDR UNBIAS	0.59971	0.5998	9e-05
28	20	HDR UNBIAS	0.6	0.60003	3e-05
29	20	HDR UNBIAS	0.60005	0.5999	-0.00015
30	20	HDR UNBIAS	0.60009	0.60026	0.00017
31	30	HDR BIAS	0.59995	0.59963	-0.00032
32	30	HDR BIAS	0.60011	0.60027	0.00016
33	30	HDR BIAS	0.60009	0.59977	-0.00032
34	30	HDR BIAS	0.59973	0.59988	0.00015
35	30	HDR BIAS	0.59972	0.60018	0.00046
36	30	HDR UNBIAS	0.60009	0.60043	0.00034
37	30	HDR UNBIAS	0.59986	0.59981	-5e-05
38	30	HDR UNBIAS	0.60006	0.59968	-0.00038
39	30	HDR UNBIAS	0.59977	0.59987	0.0001
40	30	HDR UNBIAS	0.60024	0.60024	0
41	50	HDR BIAS	0.59987	0.59926	-0.00061
42	50	HDR BIAS	0.59988	0.59999	0.00011
43	50	HDR BIAS	0.59989	0.59987	-2e-05
44	50	HDR BIAS	0.59955	0.59915	-0.0004
45	50	HDR BIAS	0.60003	0.60001	-2e-05
46	50	HDR UNBIAS	0.59994	0.60097	0.00103
47	50	HDR UNBIAS	0.60005	0.60005	0
48	50	HDR UNBIAS	0.60012	0.59989	-0.00023
49	50	HDR UNBIAS	0.60023	0.60009	-0.00014
50	50	HDR UNBIAS	0.59974	0.59998	0.00024
71	0	CORRELATION	0.60039	0.60045	6e-05
72	0	CORRELATION	0.60019	0.60023	4e-05
73	0	CORRELATION	0.60009	0.60015	6e-05

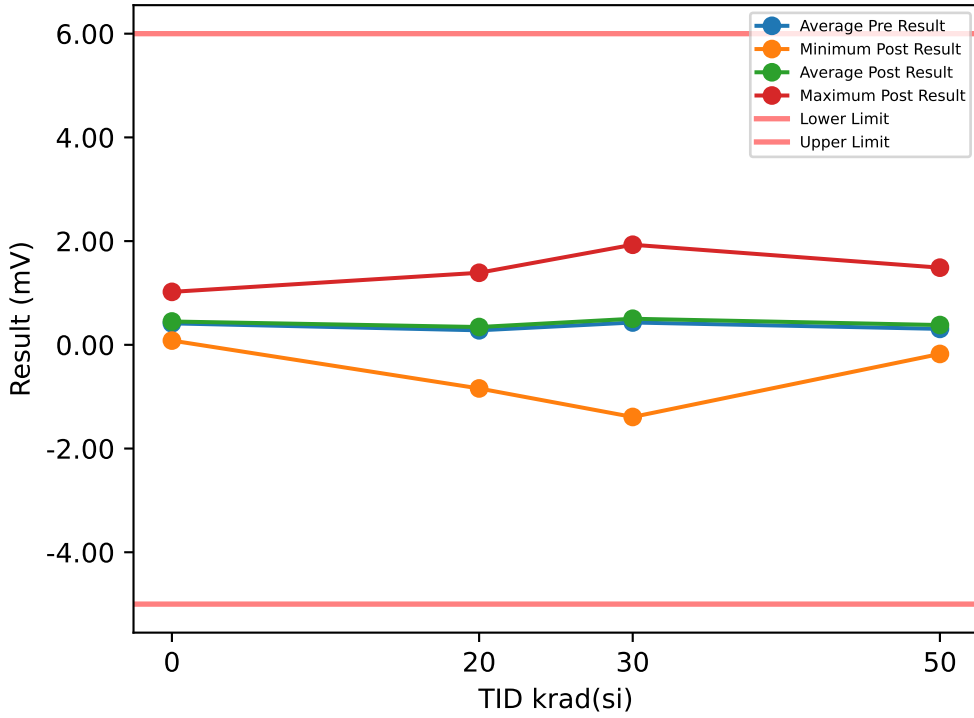
## TID vs Post - Pre Exposure Delta



## 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	0.60009	0.60022	0.60039	0.00015275	0.60015	0.60028	0.60045	0.00015535	4e-05	5.3333e-05	6e-05	1.1547e-05
20	0.59966	0.59993	0.60029	0.00022411	0.5996	0.59998	0.60026	0.00018472	-0.00027	5.3e-05	0.00034	0.00020183
30	0.59972	0.59996	0.60024	0.00018299	0.59963	0.59998	0.60043	0.00027921	-0.00038	1.4e-05	0.00046	0.00028578
50	0.59955	0.59993	0.60023	0.00019402	0.59915	0.59993	0.60097	0.00049401	-0.00061	-4e-06	0.00103	0.00043917

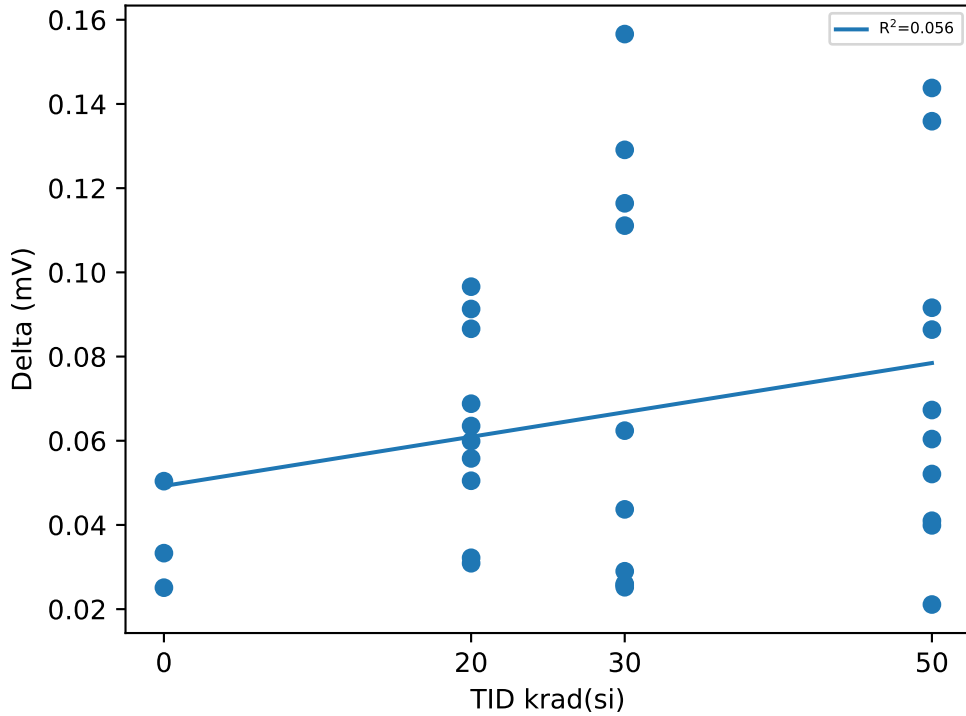
TID vs Result Stats



Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.8277	-0.7364	0.0913
22	20	HDR BIAS	0.5558	0.6424	0.0866
23	20	HDR BIAS	1.3336	1.3894	0.0558
24	20	HDR BIAS	1.0364	1.0999	0.0635
25	20	HDR BIAS	-0.7283	-0.6961	0.0322
26	20	HDR UNBIAS	-0.901	-0.8411	0.0599
27	20	HDR UNBIAS	-0.1605	-0.11	0.0505
28	20	HDR UNBIAS	1.2278	1.2966	0.0688
29	20	HDR UNBIAS	-0.0431	0.0535	0.0966
30	20	HDR UNBIAS	1.3036	1.3345	0.0309
31	30	HDR BIAS	-0.7208	-0.6918	0.029
32	30	HDR BIAS	0.2352	0.3918	0.1566
33	30	HDR BIAS	1.5223	1.5475	0.0252
34	30	HDR BIAS	0.9115	1.0226	0.1111
35	30	HDR BIAS	0.548	0.6104	0.0624
36	30	HDR UNBIAS	1.9039	1.9299	0.026
37	30	HDR UNBIAS	-1.5202	-1.3911	0.1291
38	30	HDR UNBIAS	1.2845	1.3282	0.0437
39	30	HDR UNBIAS	-0.0769	-0.0512	0.0257
40	30	HDR UNBIAS	0.2167	0.3331	0.1164
41	50	HDR BIAS	0.2815	0.3419	0.0604
42	50	HDR BIAS	0.5125	0.6041	0.0916
43	50	HDR BIAS	0.0286	0.0497	0.0211
44	50	HDR BIAS	-0.228	-0.1759	0.0521
45	50	HDR BIAS	1.4481	1.488	0.0399
46	50	HDR UNBIAS	0.6998	0.7862	0.0864
47	50	HDR UNBIAS	0.2845	0.3518	0.0673
48	50	HDR UNBIAS	-0.1103	-0.0693	0.041
49	50	HDR UNBIAS	-0.1806	-0.0447	0.1359
50	50	HDR UNBIAS	0.339	0.4828	0.1438
71	0	CORRELATION	0.9708	1.0212	0.0504
72	0	CORRELATION	0.0569	0.082	0.0251
73	0	CORRELATION	0.2138	0.2471	0.0333

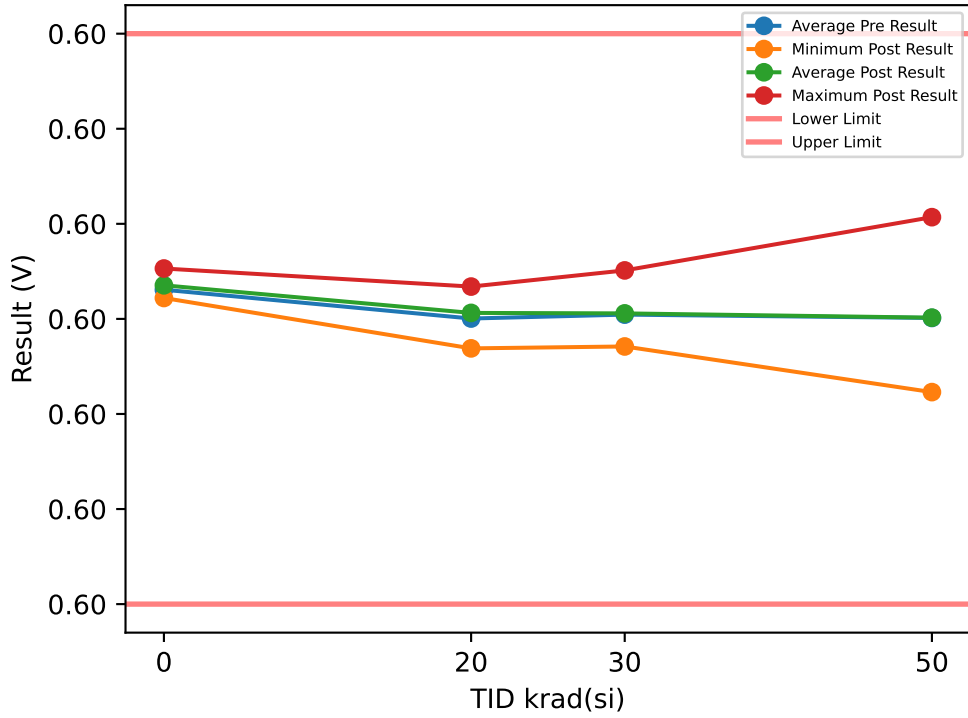
TID vs Post - Pre Exposure Delta



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	0.0569	0.41383	0.9708	0.48869	0.082	0.4501	1.0212	0.50143	0.0251	0.036267	0.0504	0.012908
20	-0.901	0.27966	1.3336	0.92143	-0.8411	0.34327	1.3894	0.91808	0.0309	0.06361	0.0966	0.022886
30	-1.5202	0.43042	1.9039	1.044	-1.3911	0.50294	1.9299	1.0249	0.0252	0.07252	0.1566	0.05067
50	-0.228	0.30751	1.4481	0.50293	-0.1759	0.38146	1.488	0.50067	0.0211	0.07395	0.1438	0.040725

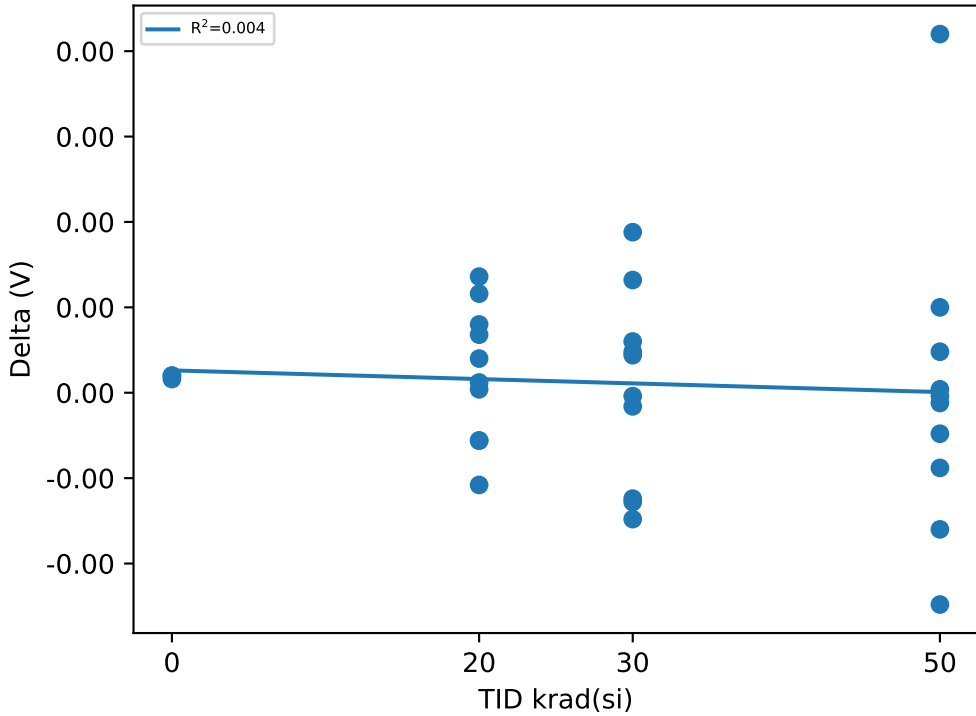
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60037	0.6001	-0.00027
22	20	HDR BIAS	0.59975	0.60009	0.00034
23	20	HDR BIAS	0.59989	0.60009	0.0002
24	20	HDR BIAS	0.60026	0.60027	1e-05
25	20	HDR BIAS	0.59978	0.60007	0.00029
26	20	HDR UNBIAS	0.59983	0.59969	-0.00014
27	20	HDR UNBIAS	0.59979	0.59989	0.0001
28	20	HDR UNBIAS	0.60008	0.60011	3e-05
29	20	HDR UNBIAS	0.60012	0.59998	-0.00014
30	20	HDR UNBIAS	0.60017	0.60034	0.00017
31	30	HDR BIAS	0.60003	0.59971	-0.00032
32	30	HDR BIAS	0.60022	0.60034	0.00012
33	30	HDR BIAS	0.60017	0.59986	-0.00031
34	30	HDR BIAS	0.5998	0.59995	0.00015
35	30	HDR BIAS	0.59979	0.60026	0.00047
36	30	HDR UNBIAS	0.60018	0.60051	0.00033
37	30	HDR UNBIAS	0.59994	0.5999	-4e-05
38	30	HDR UNBIAS	0.60014	0.59977	-0.00037
39	30	HDR UNBIAS	0.59985	0.59996	0.00011
40	30	HDR UNBIAS	0.60033	0.60032	-1e-05
41	50	HDR BIAS	0.59995	0.59933	-0.00062
42	50	HDR BIAS	0.59996	0.60008	0.00012
43	50	HDR BIAS	0.59997	0.59996	-1e-05
44	50	HDR BIAS	0.59963	0.59923	-0.0004
45	50	HDR BIAS	0.60011	0.60008	-3e-05
46	50	HDR UNBIAS	0.60002	0.60107	0.00105
47	50	HDR UNBIAS	0.60013	0.60014	1e-05
48	50	HDR UNBIAS	0.6002	0.59998	-0.00022
49	50	HDR UNBIAS	0.6003	0.60018	-0.00012
50	50	HDR UNBIAS	0.59983	0.60008	0.00025
71	0	CORRELATION	0.60048	0.60053	5e-05
72	0	CORRELATION	0.60027	0.60031	4e-05
73	0	CORRELATION	0.60017	0.60022	5e-05

TID vs Post - Pre Exposure Delta

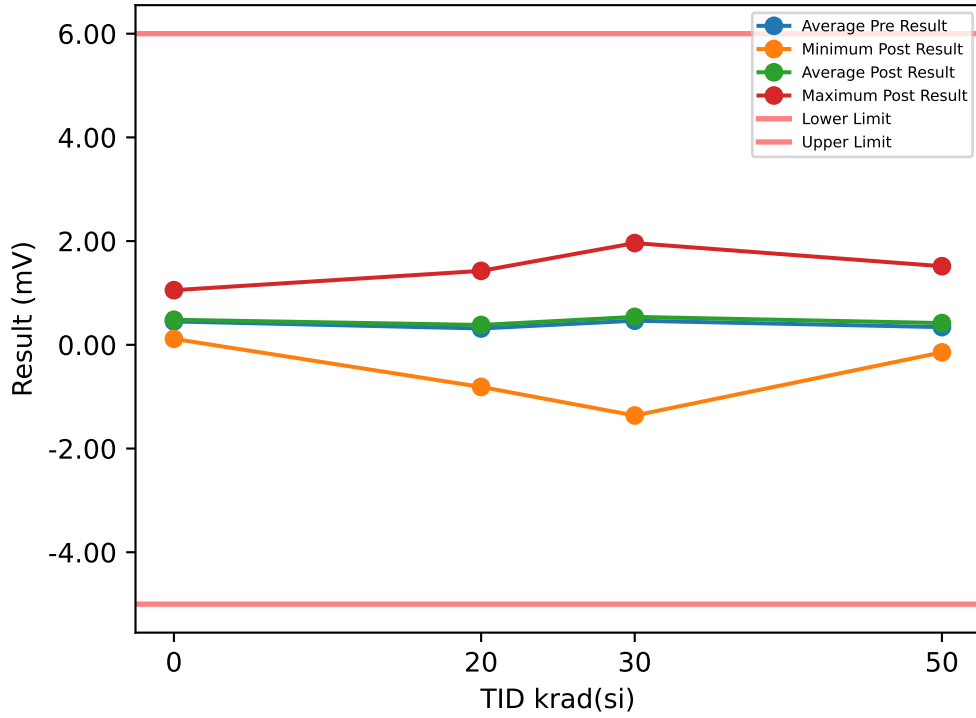


Test Statistics (V)

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	0.60017	0.60031	0.60048	0.00015822	0.60022	0.60035	0.60053	0.00015948	4e-05	4.6667e-05	5e-05	5.7735e-06
20	0.59975	0.6	0.60037	0.00022362	0.59969	0.60006	0.60034	0.00018276	-0.00027	5.9e-05	0.00034	0.00019913
30	0.59979	0.60004	0.60033	0.00019121	0.59971	0.60006	0.60051	0.00027543	-0.00037	1.3e-05	0.00047	0.0002817
50	0.59963	0.60001	0.6003	0.00019125	0.59923	0.60001	0.60107	0.00050091	-0.00062	3e-06	0.00105	0.00044567

# Device Test: 19.45 VOLTAGE|OFFSET//12/12/0/0/5/500kHz//@EA\_OS

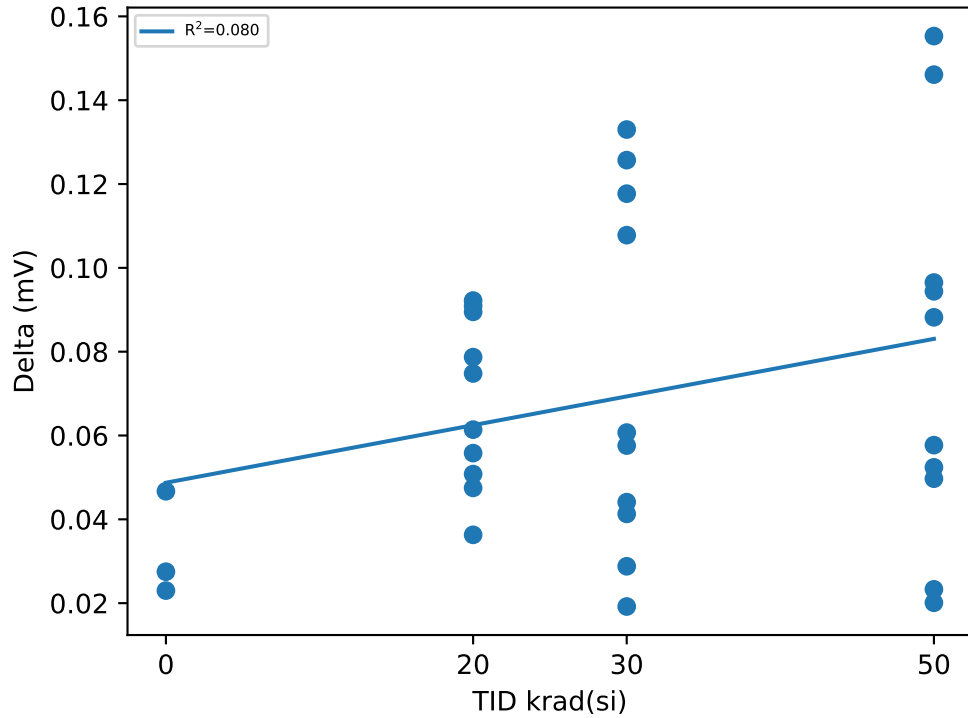
## TID vs Result Stats



## Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.7846	-0.6951	0.0895
22	20	HDR BIAS	0.595	0.6872	0.0922
23	20	HDR BIAS	1.3643	1.4257	0.0614
24	20	HDR BIAS	1.0746	1.1533	0.0787
25	20	HDR BIAS	-0.7064	-0.6589	0.0475
26	20	HDR UNBIAS	-0.8676	-0.8118	0.0558
27	20	HDR UNBIAS	-0.1165	-0.0657	0.0508
28	20	HDR UNBIAS	1.2594	1.3342	0.0748
29	20	HDR UNBIAS	-0.0126	0.0783	0.0909
30	20	HDR UNBIAS	1.3459	1.3822	0.0363
31	30	HDR BIAS	-0.6932	-0.6491	0.0441
32	30	HDR BIAS	0.2918	0.4175	0.1257
33	30	HDR BIAS	1.5568	1.5856	0.0288
34	30	HDR BIAS	0.9276	1.0606	0.133
35	30	HDR BIAS	0.5784	0.6391	0.0607
36	30	HDR UNBIAS	1.9429	1.9621	0.0192
37	30	HDR UNBIAS	-1.4801	-1.3624	0.1177
38	30	HDR UNBIAS	1.3085	1.3661	0.0576
39	30	HDR UNBIAS	-0.0427	-0.0014	0.0413
40	30	HDR UNBIAS	0.2637	0.3715	0.1078
41	50	HDR BIAS	0.3111	0.3688	0.0577
42	50	HDR BIAS	0.5471	0.6415	0.0944
43	50	HDR BIAS	0.0518	0.0719	0.0201
44	50	HDR BIAS	-0.1951	-0.1454	0.0497
45	50	HDR BIAS	1.493	1.5163	0.0233
46	50	HDR UNBIAS	0.7405	0.837	0.0965
47	50	HDR UNBIAS	0.3074	0.3956	0.0882
48	50	HDR UNBIAS	-0.0751	-0.0227	0.0524
49	50	HDR UNBIAS	-0.1501	0.0052	0.1553
50	50	HDR UNBIAS	0.3829	0.529	0.1461
71	0	CORRELATION	1.0073	1.054	0.0467
72	0	CORRELATION	0.0875	0.115	0.0275
73	0	CORRELATION	0.2584	0.2814	0.023

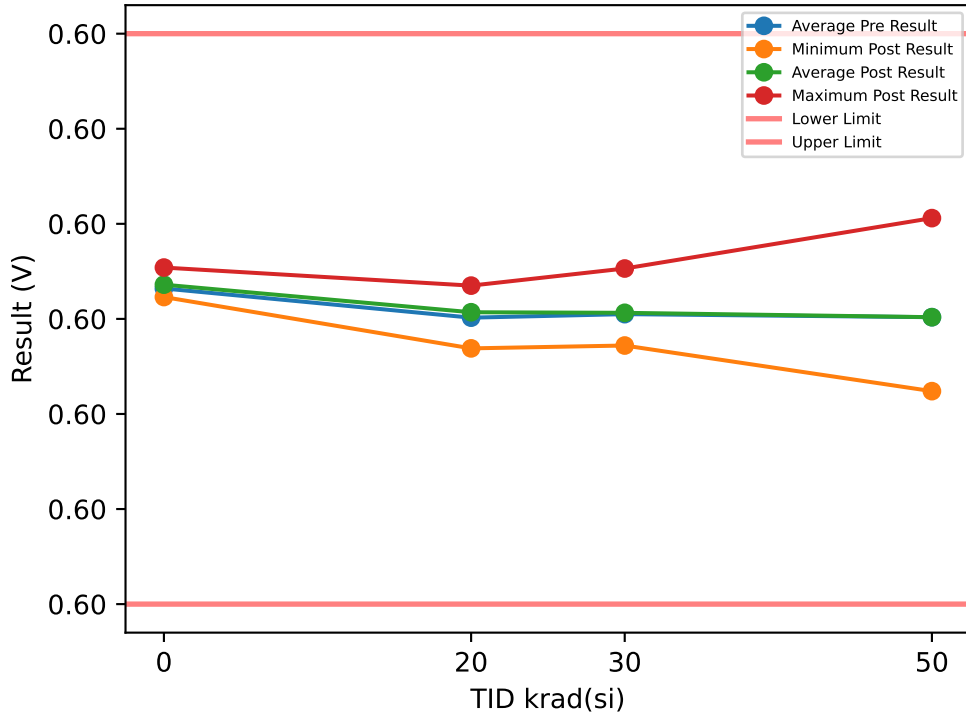
## TID vs Post - Pre Exposure Delta



## 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	0.0875	0.45107	1.0073	0.48923	0.115	0.48347	1.054	0.50105	0.023	0.0324	0.0467	0.012587
20	-0.8676	0.31515	1.3643	0.92229	-0.8118	0.38294	1.4257	0.92171	0.0363	0.06779	0.0922	0.020127
30	-1.4801	0.46537	1.9429	1.0418	-1.3624	0.53896	1.9621	1.0246	0.0192	0.07359	0.133	0.043024
50	-0.1951	0.34135	1.493	0.50753	-0.1454	0.41972	1.5163	0.49987	0.0201	0.07837	0.1553	0.046595

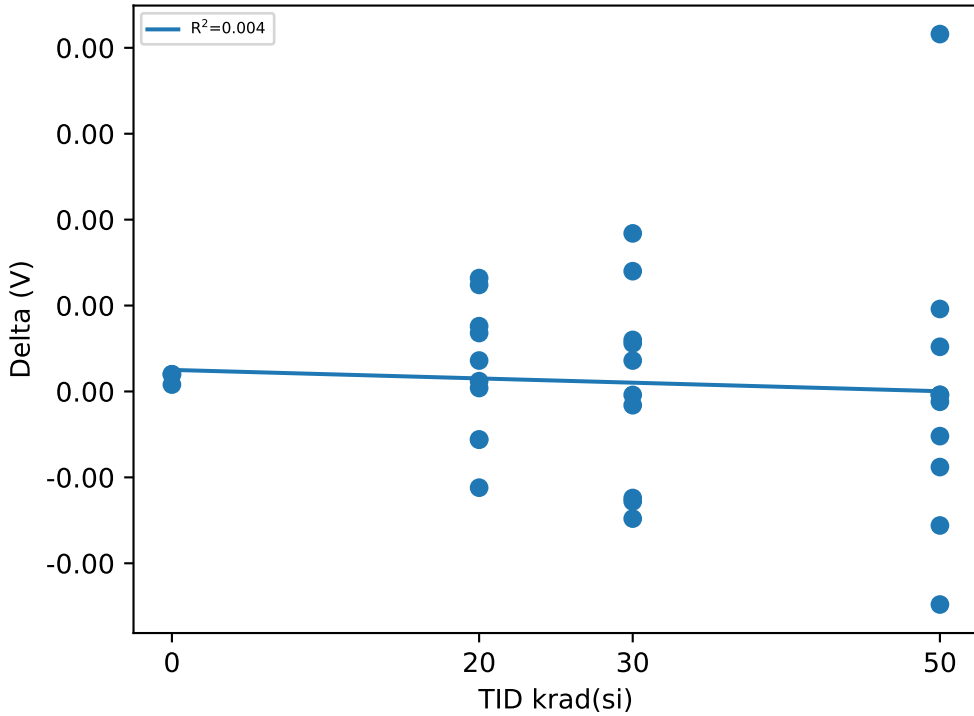
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60038	0.6001	-0.00028
22	20	HDR BIAS	0.59976	0.60009	0.00033
23	20	HDR BIAS	0.59991	0.6001	0.00019
24	20	HDR BIAS	0.60027	0.60028	1e-05
25	20	HDR BIAS	0.59978	0.60009	0.00031
26	20	HDR UNBIAS	0.59983	0.59969	-0.00014
27	20	HDR UNBIAS	0.5998	0.59989	9e-05
28	20	HDR UNBIAS	0.60009	0.60012	3e-05
29	20	HDR UNBIAS	0.60013	0.59999	-0.00014
30	20	HDR UNBIAS	0.60018	0.60035	0.00017
31	30	HDR BIAS	0.60003	0.59972	-0.00031
32	30	HDR BIAS	0.60021	0.60035	0.00014
33	30	HDR BIAS	0.60018	0.59986	-0.00032
34	30	HDR BIAS	0.59981	0.59996	0.00015
35	30	HDR BIAS	0.59979	0.60025	0.00046
36	30	HDR UNBIAS	0.60018	0.60053	0.00035
37	30	HDR UNBIAS	0.59995	0.59991	-4e-05
38	30	HDR UNBIAS	0.60015	0.59978	-0.00037
39	30	HDR UNBIAS	0.59986	0.59995	9e-05
40	30	HDR UNBIAS	0.60034	0.60033	-1e-05
41	50	HDR BIAS	0.59996	0.59934	-0.00062
42	50	HDR BIAS	0.59996	0.60009	0.00013
43	50	HDR BIAS	0.59997	0.59996	-1e-05
44	50	HDR BIAS	0.59963	0.59924	-0.00039
45	50	HDR BIAS	0.60012	0.60009	-3e-05
46	50	HDR UNBIAS	0.60002	0.60106	0.00104
47	50	HDR UNBIAS	0.60015	0.60014	-1e-05
48	50	HDR UNBIAS	0.60021	0.59999	-0.00022
49	50	HDR UNBIAS	0.60032	0.60019	-0.00013
50	50	HDR UNBIAS	0.59984	0.60008	0.00024
71	0	CORRELATION	0.60049	0.60054	5e-05
72	0	CORRELATION	0.60029	0.60031	2e-05
73	0	CORRELATION	0.60018	0.60023	5e-05

TID vs Post - Pre Exposure Delta



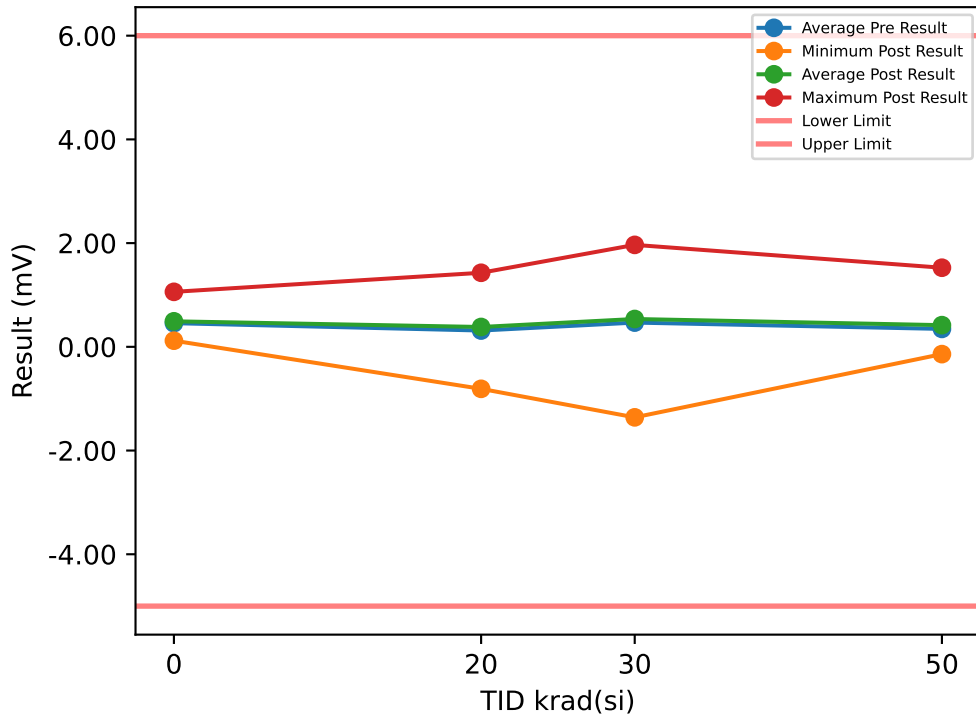
Test Statistics (V)

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	0.60018	0.60032	0.60049	0.00015716	0.60023	0.60036	0.60054	0.00016093	2e-05	4e-05	5e-05	1.7321e-05
20	0.59976	0.60001	0.60038	0.0002251	0.59969	0.60007	0.60035	0.00018583	-0.00028	5.7e-05	0.00033	0.00020117
30	0.59979	0.60005	0.60034	0.00019009	0.59972	0.60006	0.60053	0.00027738	-0.00037	1.4e-05	0.00046	0.00028273
50	0.59963	0.60002	0.60032	0.0001964	0.59924	0.60002	0.60106	0.00049593	-0.00062	0	0.00104	0.00044209



# Device Test: 19.48 VOLTAGE|OFFSET//14/14/0/0/5/500kHz//@EA\_OS

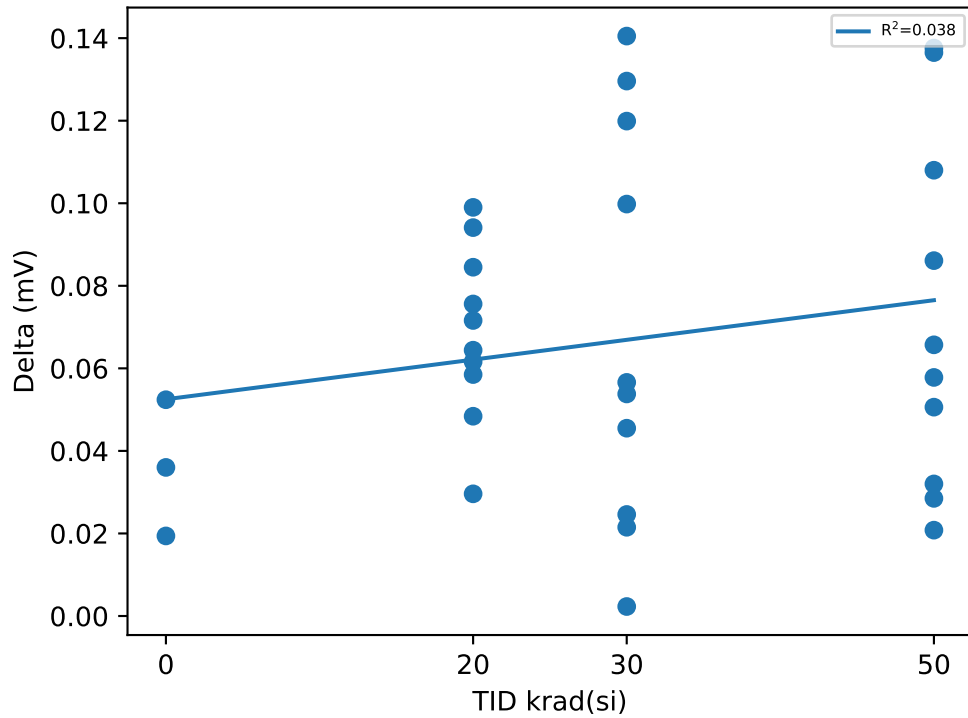
## TID vs Result Stats



## Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.7939	-0.7094	0.0845
22	20	HDR BIAS	0.5917	0.6858	0.0941
23	20	HDR BIAS	1.3663	1.4279	0.0616
24	20	HDR BIAS	1.0785	1.1541	0.0756
25	20	HDR BIAS	-0.7104	-0.6519	0.0585
26	20	HDR UNBIAS	-0.8744	-0.81	0.0644
27	20	HDR UNBIAS	-0.1193	-0.0709	0.0484
28	20	HDR UNBIAS	1.2624	1.334	0.0716
29	20	HDR UNBIAS	-0.0155	0.0835	0.099
30	20	HDR UNBIAS	1.3546	1.3842	0.0296
31	30	HDR BIAS	-0.6907	-0.6452	0.0455
32	30	HDR BIAS	0.2785	0.419	0.1405
33	30	HDR BIAS	1.5634	1.5849	0.0215
34	30	HDR BIAS	0.927	1.0566	0.1296
35	30	HDR BIAS	0.573	0.6268	0.0538
36	30	HDR UNBIAS	1.9412	1.9658	0.0246
37	30	HDR UNBIAS	-1.4798	-1.3599	0.1199
38	30	HDR UNBIAS	1.316	1.3726	0.0566
39	30	HDR UNBIAS	-0.0222	-0.0199	0.0023
40	30	HDR UNBIAS	0.2661	0.3659	0.0998
41	50	HDR BIAS	0.3155	0.3661	0.0506
42	50	HDR BIAS	0.5472	0.6552	0.108
43	50	HDR BIAS	0.0608	0.0816	0.0208
44	50	HDR BIAS	-0.1984	-0.1406	0.0578
45	50	HDR BIAS	1.4969	1.5254	0.0285
46	50	HDR UNBIAS	0.7354	0.8215	0.0861
47	50	HDR UNBIAS	0.3149	0.3806	0.0657
48	50	HDR UNBIAS	-0.0584	-0.0264	0.032
49	50	HDR UNBIAS	-0.1433	-0.0068	0.1365
50	50	HDR UNBIAS	0.3852	0.5228	0.1376
71	0	CORRELATION	1.0079	1.0603	0.0524
72	0	CORRELATION	0.099	0.1184	0.0194
73	0	CORRELATION	0.2616	0.2976	0.036

## TID vs Post - Pre Exposure Delta

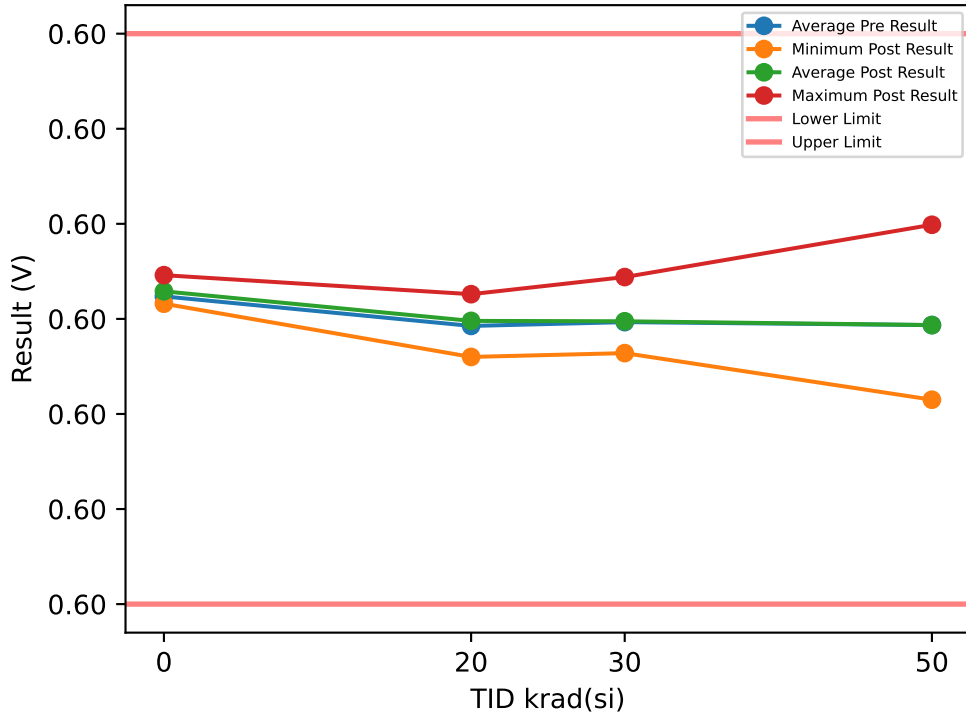


## Test Statistics (mV)

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	0.099	0.45617	1.0079	0.48468	0.1184	0.4921	1.0603	0.50017	0.0194	0.035933	0.0524	0.0165
20	-0.8744	0.314	1.3663	0.92716	-0.81	0.38273	1.4279	0.92305	0.0296	0.06873	0.099	0.021036
30	-1.4798	0.46725	1.9412	1.0416	-1.3599	0.53666	1.9658	1.0255	0.0023	0.06941	0.1405	0.049369
50	-0.1984	0.34558	1.4969	0.50561	-0.1406	0.41794	1.5254	0.50151	0.0208	0.07236	0.1376	0.043166



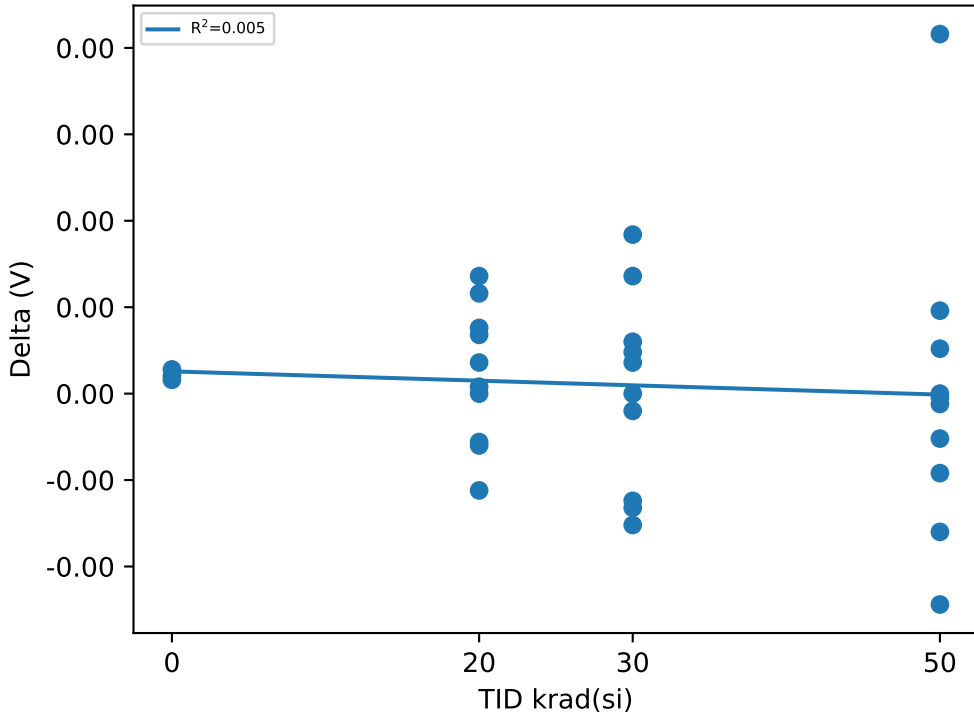
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6003	0.60002	-0.00028
22	20	HDR BIAS	0.59966	0.6	0.00034
23	20	HDR BIAS	0.59981	0.6	0.00019
24	20	HDR BIAS	0.60018	0.60018	0
25	20	HDR BIAS	0.5997	0.59999	0.00029
26	20	HDR UNBIAS	0.59975	0.5996	-0.00015
27	20	HDR UNBIAS	0.59971	0.5998	9e-05
28	20	HDR UNBIAS	0.60001	0.60003	2e-05
29	20	HDR UNBIAS	0.60005	0.59991	-0.00014
30	20	HDR UNBIAS	0.60009	0.60026	0.00017
31	30	HDR BIAS	0.59997	0.59964	-0.00033
32	30	HDR BIAS	0.60012	0.60024	0.00012
33	30	HDR BIAS	0.60008	0.59977	-0.00031
34	30	HDR BIAS	0.59973	0.59988	0.00015
35	30	HDR BIAS	0.59972	0.60018	0.00046
36	30	HDR UNBIAS	0.6001	0.60044	0.00034
37	30	HDR UNBIAS	0.59985	0.5998	-5e-05
38	30	HDR UNBIAS	0.60006	0.59968	-0.00038
39	30	HDR UNBIAS	0.59977	0.59986	9e-05
40	30	HDR UNBIAS	0.60026	0.60026	0
41	50	HDR BIAS	0.59987	0.59926	-0.00061
42	50	HDR BIAS	0.59988	0.60001	0.00013
43	50	HDR BIAS	0.59991	0.5999	-1e-05
44	50	HDR BIAS	0.59955	0.59915	-0.0004
45	50	HDR BIAS	0.60003	0.6	-3e-05
46	50	HDR UNBIAS	0.59995	0.60099	0.00104
47	50	HDR UNBIAS	0.60006	0.60006	0
48	50	HDR UNBIAS	0.60013	0.5999	-0.00023
49	50	HDR UNBIAS	0.60021	0.60008	-0.00013
50	50	HDR UNBIAS	0.59976	0.6	0.00024
71	0	CORRELATION	0.60041	0.60046	5e-05
72	0	CORRELATION	0.60021	0.60025	4e-05
73	0	CORRELATION	0.60009	0.60016	7e-05

TID vs Post - Pre Exposure Delta

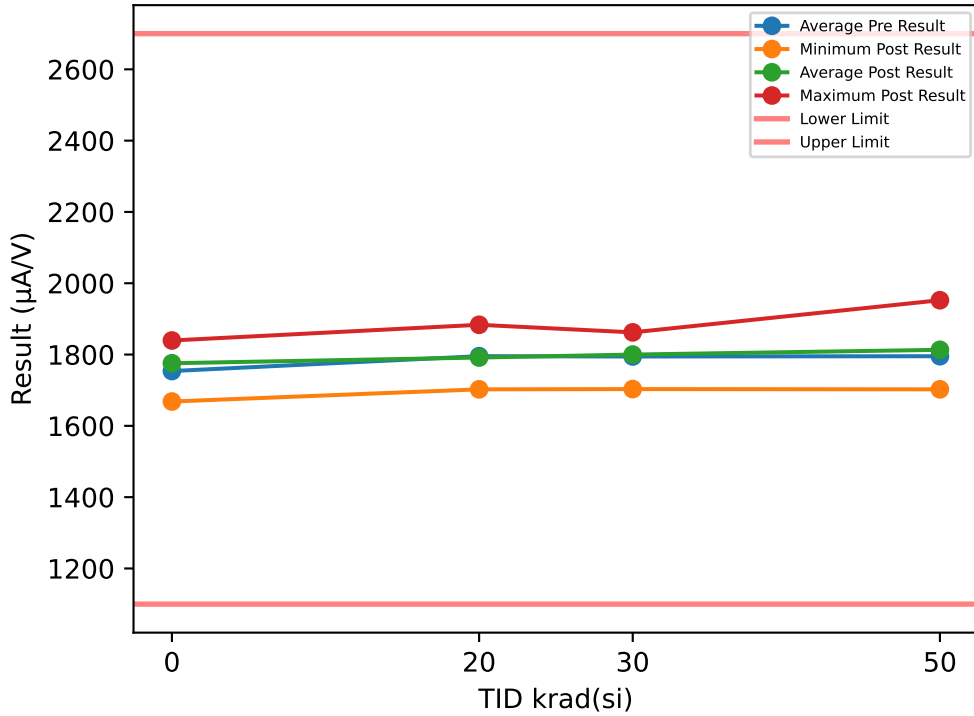


Test Statistics (V)

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	0.60009	0.60024	0.60041	0.00016166	0.60016	0.60029	0.60046	0.00015395	4e-05	5.3333e-05	7e-05	1.5275e-05
20	0.59966	0.59993	0.6003	0.0002277	0.5996	0.59998	0.60026	0.00018412	-0.00028	5.3e-05	0.00034	0.00020155
30	0.59972	0.59997	0.60026	0.00018798	0.59964	0.59997	0.60044	0.00027965	-0.00038	9e-06	0.00046	0.00028349
50	0.59955	0.59993	0.60021	0.0001901	0.59915	0.59993	0.60099	0.00049867	-0.00061	-1.1102e-17	0.00104	0.00044209

# Device Test: 19.5 LEVEL|TRANSCONDUCTANCE//5/5/0/0/5/500kHz//@EA\_GM

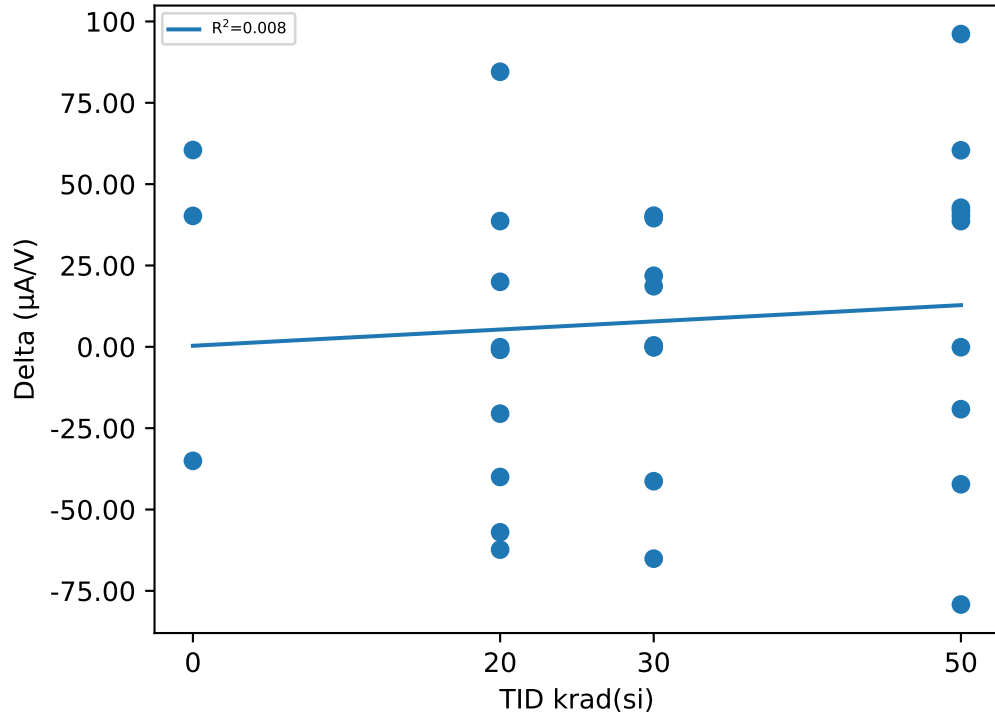
### TID vs Result Stats



### Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1759.4	1798.1	38.646
22	20	HDR BIAS	1778.9	1778.8	-0.1038
23	20	HDR BIAS	1759.5	1779.5	19.977
24	20	HDR BIAS	1799	1798.1	-0.8869
25	20	HDR BIAS	1798.9	1883.5	84.538
26	20	HDR UNBIAS	1819.4	1779.4	-40.004
27	20	HDR UNBIAS	1799	1798.1	-0.8965
28	20	HDR UNBIAS	1819.4	1798.8	-20.541
29	20	HDR UNBIAS	1861.8	1799.4	-62.332
30	20	HDR UNBIAS	1759.4	1702.4	-56.997
31	30	HDR BIAS	1778.9	1819.3	40.307
32	30	HDR BIAS	1840.4	1862.2	21.837
33	30	HDR BIAS	1779	1818.5	39.539
34	30	HDR BIAS	1819.4	1819.3	-0.1282
35	30	HDR BIAS	1840.4	1840.8	0.4443
36	30	HDR UNBIAS	1819.4	1778.1	-41.303
37	30	HDR UNBIAS	1721.5	1740.2	18.624
38	30	HDR UNBIAS	1759.5	1799.4	39.96
39	30	HDR UNBIAS	1883.6	1818.5	-65.109
40	30	HDR UNBIAS	1703.2	1703.1	-0.1124
41	50	HDR BIAS	1703.3	1799.4	96.123
42	50	HDR BIAS	1840.3	1798.1	-42.248
43	50	HDR BIAS	1819.4	1740.2	-79.201
44	50	HDR BIAS	1759.5	1819.9	60.406
45	50	HDR BIAS	1759.4	1798.1	38.646
46	50	HDR UNBIAS	1778.9	1819.3	40.316
47	50	HDR UNBIAS	1799	1840.8	41.797
48	50	HDR UNBIAS	1721.6	1702.4	-19.164
49	50	HDR UNBIAS	1952.5	1952.4	-0.1249
50	50	HDR UNBIAS	1819.5	1862.2	42.754
71	0	CORRELATION	1779	1819.3	40.241
72	0	CORRELATION	1703.3	1668.2	-35.05
73	0	CORRELATION	1778.9	1839.4	60.481

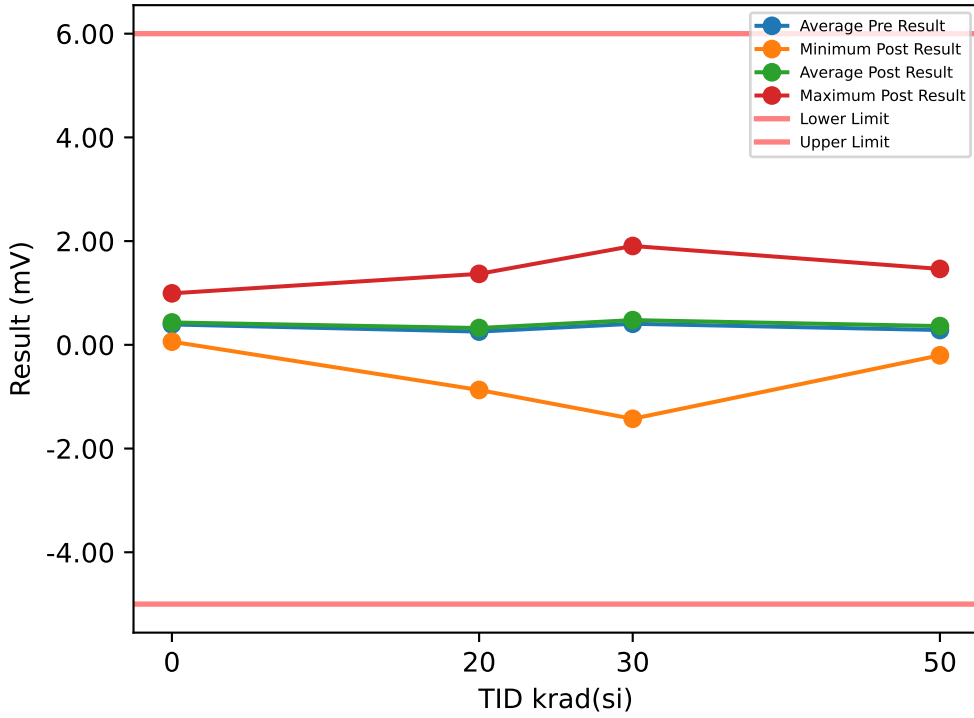
### TID vs Post - Pre Exposure Delta



### Test Statistics (µA/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	1703.3	1753.7	1779	43.704	1668.2	1775.6	1839.4	93.56	-35.05	21.891	60.481	50.34
20	1759.4	1795.5	1861.8	32.906	1702.4	1791.6	1883.5	43.575	-62.332	-3.8599	84.538	44.781
30	1703.2	1794.5	1883.6	56.519	1703.1	1799.9	1862.2	47.616	-65.109	5.4058	40.307	35.374
50	1703.3	1795.3	1952.5	70.431	1702.4	1813.3	1952.4	67.383	-79.201	17.93	96.123	52.485

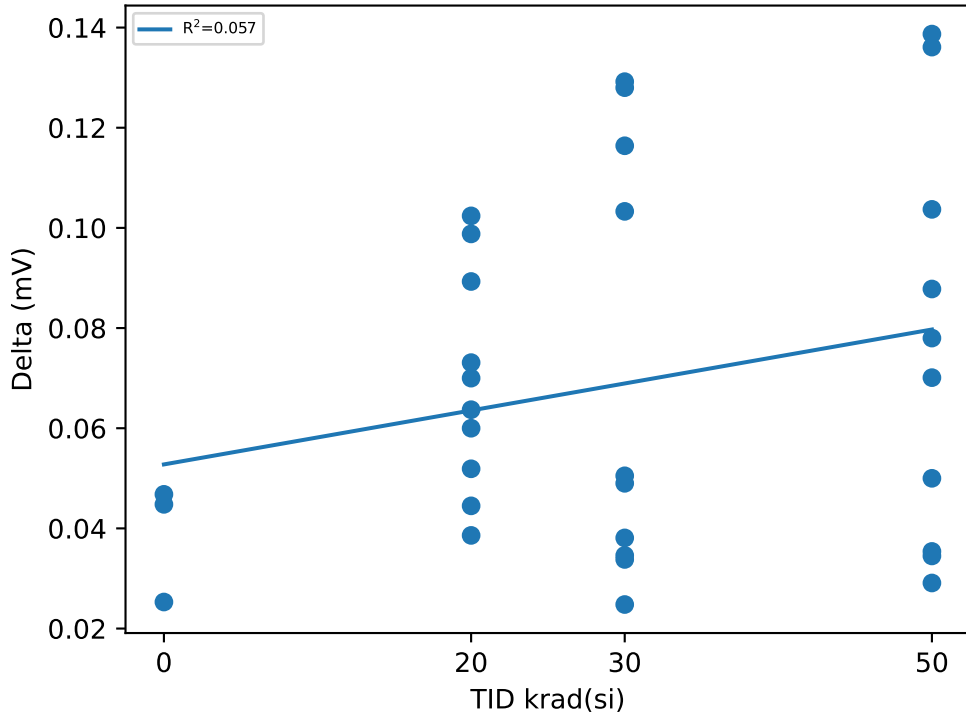
TID vs Result Stats



Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.8462	-0.7569	0.0893
22	20	HDR BIAS	0.5267	0.6255	0.0988
23	20	HDR BIAS	1.3084	1.3684	0.06
24	20	HDR BIAS	1.0154	1.0885	0.0731
25	20	HDR BIAS	-0.7639	-0.712	0.0519
26	20	HDR UNBIAS	-0.9343	-0.8706	0.0637
27	20	HDR UNBIAS	-0.1745	-0.13	0.0445
28	20	HDR UNBIAS	1.2069	1.2769	0.07
29	20	HDR UNBIAS	-0.0705	0.0319	0.1024
30	20	HDR UNBIAS	1.2824	1.321	0.0386
31	30	HDR BIAS	-0.7527	-0.7146	0.0381
32	30	HDR BIAS	0.2226	0.3518	0.1292
33	30	HDR BIAS	1.4933	1.5271	0.0338
34	30	HDR BIAS	0.8753	1.0033	0.128
35	30	HDR BIAS	0.5295	0.58	0.0505
36	30	HDR UNBIAS	1.8716	1.9062	0.0346
37	30	HDR UNBIAS	-1.5426	-1.4262	0.1164
38	30	HDR UNBIAS	1.2645	1.3135	0.049
39	30	HDR UNBIAS	-0.1066	-0.0818	0.0248
40	30	HDR UNBIAS	0.2025	0.3058	0.1033
41	50	HDR BIAS	0.2519	0.322	0.0701
42	50	HDR BIAS	0.4903	0.594	0.1037
43	50	HDR BIAS	-0.0013	0.0278	0.0291
44	50	HDR BIAS	-0.2523	-0.2023	0.05
45	50	HDR BIAS	1.4284	1.4638	0.0354
46	50	HDR UNBIAS	0.6784	0.7662	0.0878
47	50	HDR UNBIAS	0.2556	0.3336	0.078
48	50	HDR UNBIAS	-0.1139	-0.0794	0.0345
49	50	HDR UNBIAS	-0.2101	-0.0714	0.1387
50	50	HDR UNBIAS	0.3242	0.4603	0.1361
71	0	CORRELATION	0.9479	0.9927	0.0448
72	0	CORRELATION	0.036	0.0613	0.0253
73	0	CORRELATION	0.1942	0.241	0.0468

TID vs Post - Pre Exposure Delta

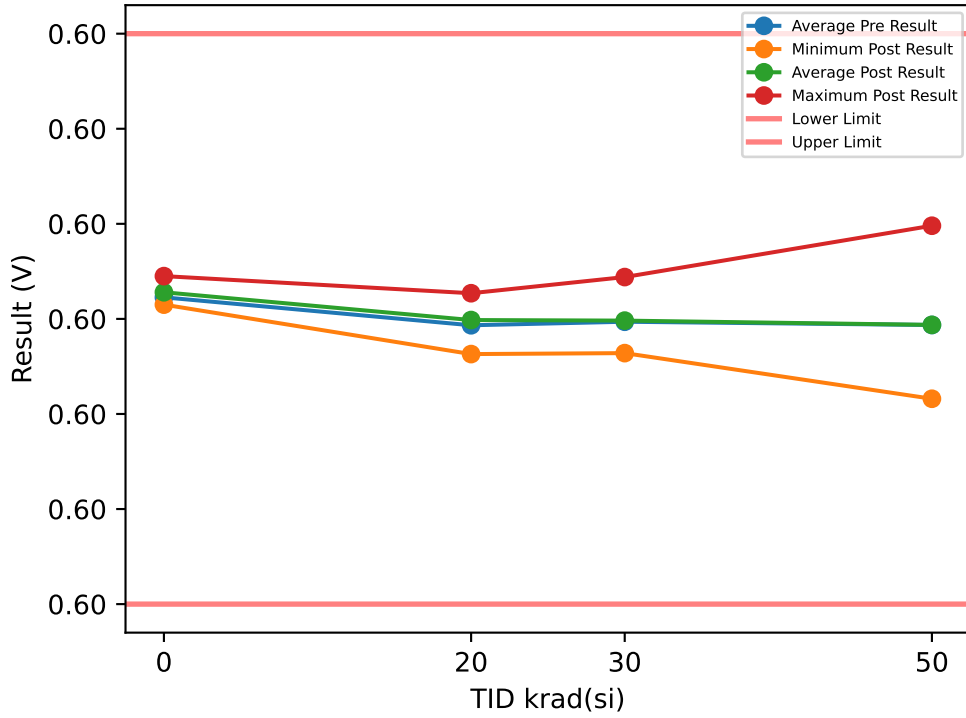


Test Statistics (mV)

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	0.036	0.3927	0.9479	0.48728	0.0613	0.43167	0.9927	0.49411	0.0253	0.038967	0.0468	0.011878
20	-0.9343	0.25504	1.3084	0.9237	-0.8706	0.32427	1.3684	0.92065	0.0386	0.06923	0.1024	0.022007
30	-1.5426	0.40574	1.8716	1.0424	-1.4262	0.47651	1.9062	1.0291	0.0248	0.07077	0.1292	0.042908
50	-0.2523	0.28512	1.4284	0.50362	-0.2023	0.36146	1.4638	0.50067	0.0291	0.07634	0.1387	0.040461

# Device Test: 19.52 VOLTAGE|VREF//5/5/0/0/5/1MHz//@VREF\_25C

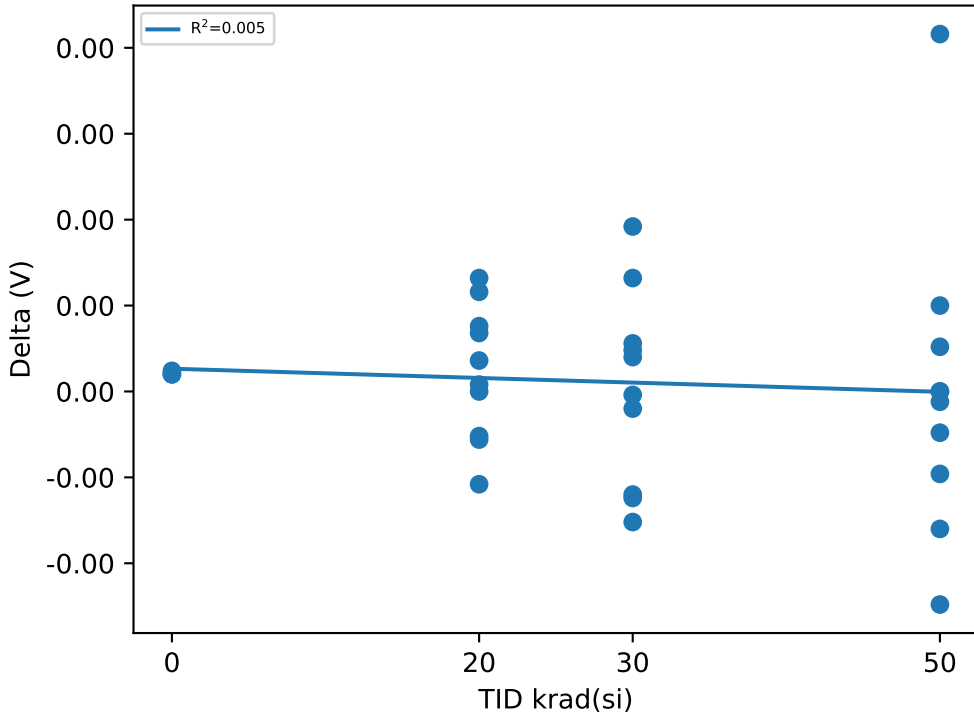
## TID vs Result Stats



## Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6003	0.60003	-0.00027
22	20	HDR BIAS	0.59968	0.60001	0.00033
23	20	HDR BIAS	0.59982	0.60001	0.00019
24	20	HDR BIAS	0.60019	0.60019	0
25	20	HDR BIAS	0.5997	0.59999	0.00029
26	20	HDR UNBIAS	0.59976	0.59963	-0.00013
27	20	HDR UNBIAS	0.59972	0.59981	9e-05
28	20	HDR UNBIAS	0.60001	0.60003	2e-05
29	20	HDR UNBIAS	0.60005	0.59991	-0.00014
30	20	HDR UNBIAS	0.6001	0.60027	0.00017
31	30	HDR BIAS	0.59995	0.59964	-0.00031
32	30	HDR BIAS	0.60014	0.60026	0.00012
33	30	HDR BIAS	0.60009	0.59979	-0.0003
34	30	HDR BIAS	0.59974	0.59988	0.00014
35	30	HDR BIAS	0.59971	0.60019	0.00048
36	30	HDR UNBIAS	0.60011	0.60044	0.00033
37	30	HDR UNBIAS	0.59987	0.59982	-5e-05
38	30	HDR UNBIAS	0.60007	0.59969	-0.00038
39	30	HDR UNBIAS	0.59977	0.59987	0.0001
40	30	HDR UNBIAS	0.60025	0.60024	-1e-05
41	50	HDR BIAS	0.59988	0.59926	-0.00062
42	50	HDR BIAS	0.59988	0.60001	0.00013
43	50	HDR BIAS	0.59989	0.59989	0
44	50	HDR BIAS	0.59956	0.59916	-0.0004
45	50	HDR BIAS	0.60004	0.60001	-3e-05
46	50	HDR UNBIAS	0.59994	0.60098	0.00104
47	50	HDR UNBIAS	0.60006	0.60006	0
48	50	HDR UNBIAS	0.60014	0.5999	-0.00024
49	50	HDR UNBIAS	0.60022	0.6001	-0.00012
50	50	HDR UNBIAS	0.59975	0.6	0.00025
71	0	CORRELATION	0.6004	0.60045	5e-05
72	0	CORRELATION	0.60019	0.60024	5e-05
73	0	CORRELATION	0.60009	0.60015	6e-05

## TID vs Post - Pre Exposure Delta

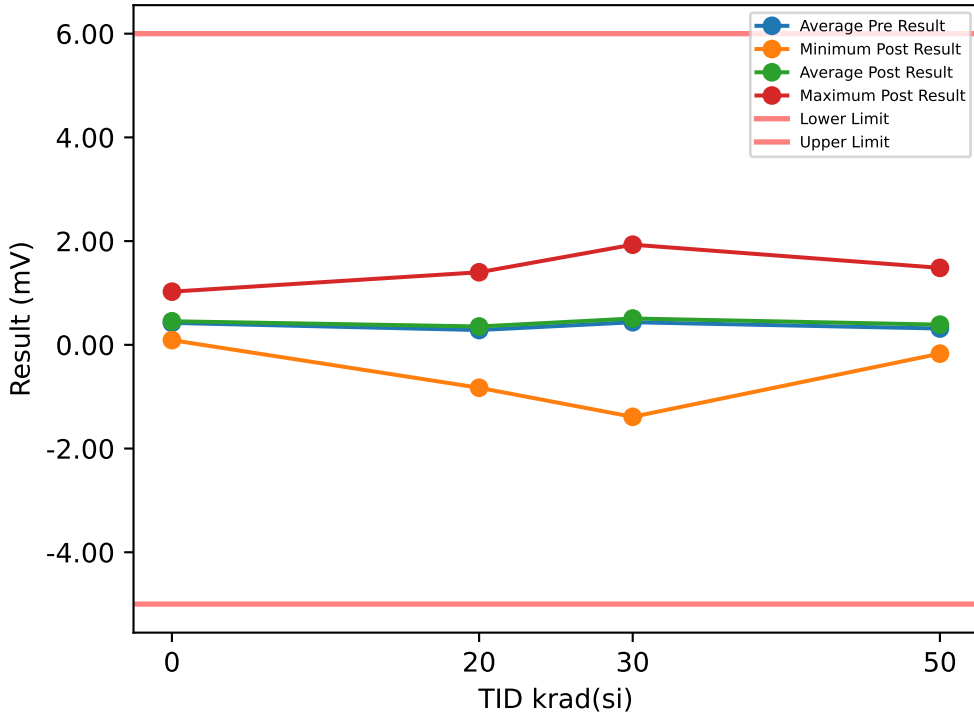


## Test Statistics (V)

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	0.60009	0.60023	0.6004	0.00015822	0.60015	0.60028	0.60045	0.00015395	5e-05	5.3333e-05	6e-05	5.7735e-06
20	0.59968	0.59993	0.6003	0.00022475	0.59963	0.59999	0.60027	0.00017974	-0.00027	5.5e-05	0.00033	0.00019597
30	0.59971	0.59997	0.60025	0.00018921	0.59964	0.59998	0.60044	0.00027591	-0.00038	1.2e-05	0.00048	0.00028185
50	0.59956	0.59994	0.60022	0.00019231	0.59916	0.59994	0.60098	0.00049551	-0.00062	1e-06	0.00104	0.00044451

# Device Test: 19.54 VOLTAGE|OFFSET//5/5/0/0/5/1MHz//@EA\_OS

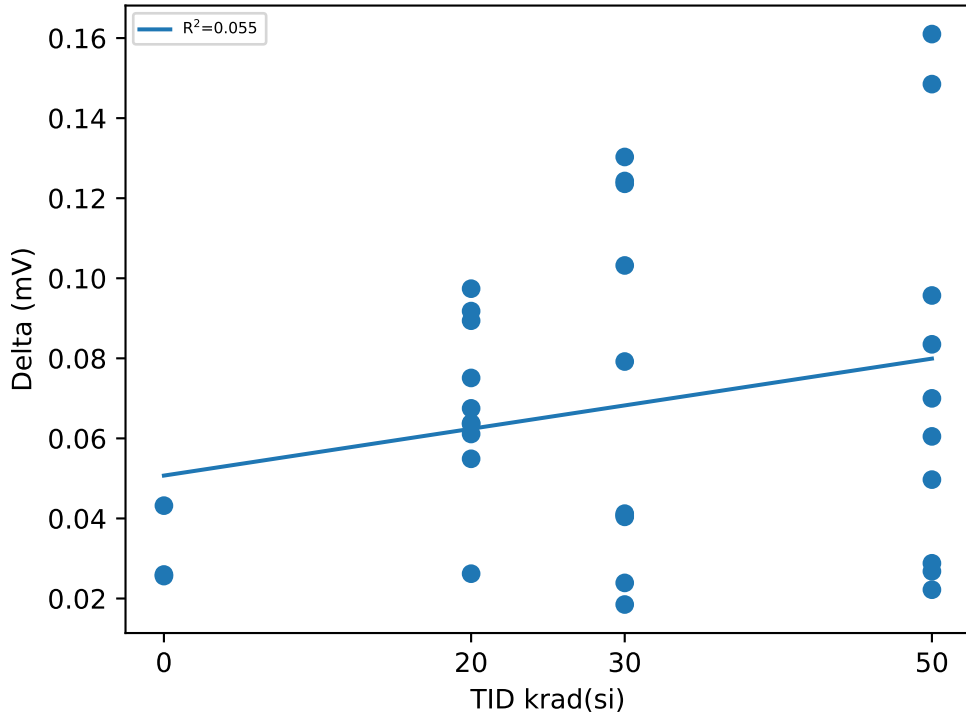
## TID vs Result Stats



## Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.8139	-0.7245	0.0894
22	20	HDR BIAS	0.5579	0.6553	0.0974
23	20	HDR BIAS	1.3353	1.3991	0.0638
24	20	HDR BIAS	1.0475	1.1111	0.0636
25	20	HDR BIAS	-0.7403	-0.6854	0.0549
26	20	HDR UNBIAS	-0.8957	-0.8282	0.0675
27	20	HDR UNBIAS	-0.1551	-0.094	0.0611
28	20	HDR UNBIAS	1.2323	1.3074	0.0751
29	20	HDR UNBIAS	-0.0382	0.0536	0.0918
30	20	HDR UNBIAS	1.319	1.3452	0.0262
31	30	HDR BIAS	-0.7172	-0.6764	0.0408
32	30	HDR BIAS	0.256	0.3863	0.1303
33	30	HDR BIAS	1.522	1.5624	0.0404
34	30	HDR BIAS	0.9034	1.027	0.1236
35	30	HDR BIAS	0.5396	0.6188	0.0792
36	30	HDR UNBIAS	1.9073	1.9312	0.0239
37	30	HDR UNBIAS	-1.5128	-1.3885	0.1243
38	30	HDR UNBIAS	1.2965	1.3377	0.0412
39	30	HDR UNBIAS	-0.0712	-0.0527	0.0185
40	30	HDR UNBIAS	0.2295	0.3327	0.1032
41	50	HDR BIAS	0.2817	0.3422	0.0605
42	50	HDR BIAS	0.5205	0.6162	0.0957
43	50	HDR BIAS	0.03	0.0522	0.0222
44	50	HDR BIAS	-0.2198	-0.1701	0.0497
45	50	HDR BIAS	1.4577	1.4845	0.0268
46	50	HDR UNBIAS	0.7143	0.7978	0.0835
47	50	HDR UNBIAS	0.2858	0.3558	0.07
48	50	HDR UNBIAS	-0.0849	-0.0561	0.0288
49	50	HDR UNBIAS	-0.1938	-0.0328	0.161
50	50	HDR UNBIAS	0.3507	0.4992	0.1485
71	0	CORRELATION	0.9821	1.0253	0.0432
72	0	CORRELATION	0.0645	0.0905	0.026
73	0	CORRELATION	0.2224	0.248	0.0256

## TID vs Post - Pre Exposure Delta

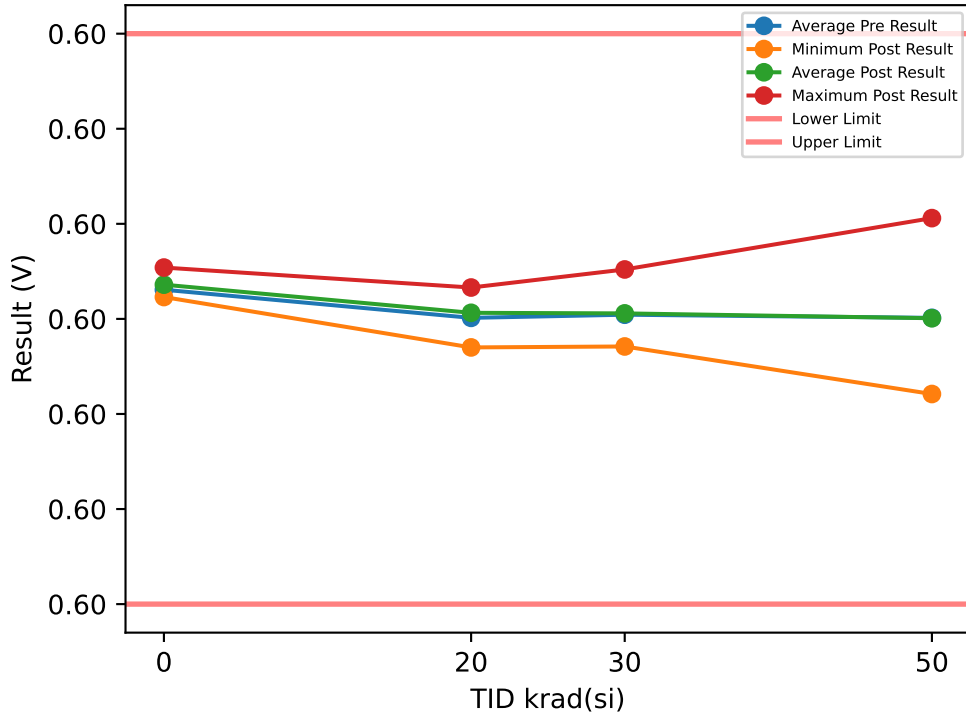


## Test Statistics (mV)

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	0.0645	0.423	0.9821	0.49059	0.0905	0.4546	1.0253	0.50048	0.0256	0.0316	0.0432	0.010048
20	-0.8957	0.28488	1.3353	0.92355	-0.8282	0.35396	1.3991	0.91771	0.0262	0.06908	0.0974	0.0209
30	-1.5128	0.43531	1.9073	1.0421	-1.3885	0.50785	1.9312	1.0256	0.0185	0.07254	0.1303	0.044616
50	-0.2198	0.31422	1.4577	0.50516	-0.1701	0.38889	1.4845	0.49848	0.0222	0.07467	0.161	0.048784

# Device Test: 19.55 VOLTAGE|VREF//12/12/0/0/5/1MHz//@VREF\_25C

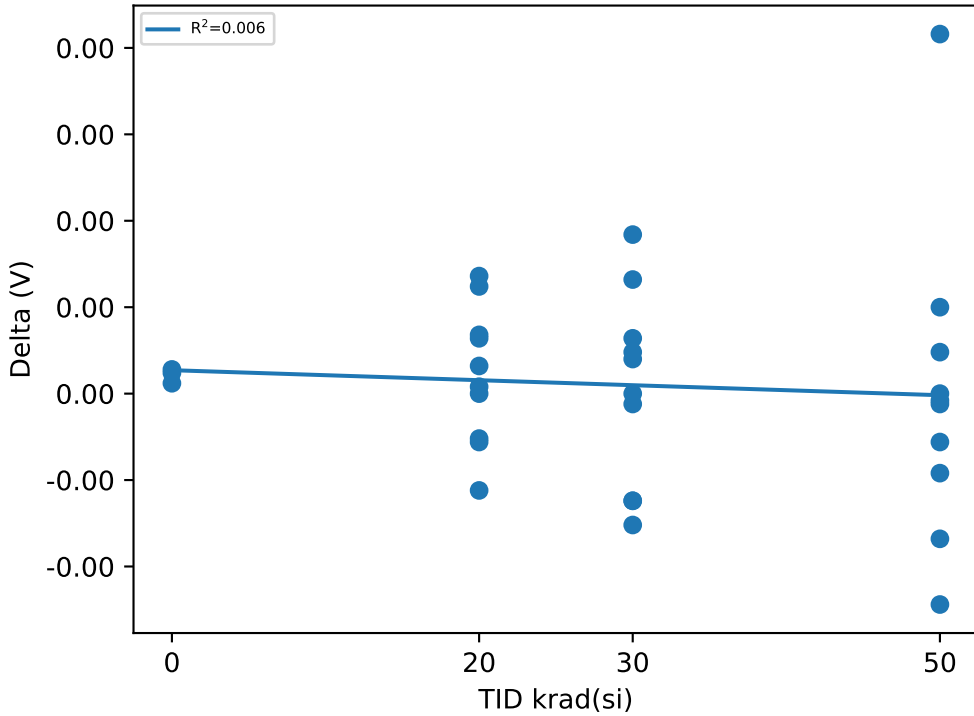
## TID vs Result Stats



## Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60038	0.6001	-0.00028
22	20	HDR BIAS	0.59975	0.60009	0.00034
23	20	HDR BIAS	0.59991	0.60008	0.00017
24	20	HDR BIAS	0.60027	0.60027	0
25	20	HDR BIAS	0.59977	0.60008	0.00031
26	20	HDR UNBIAS	0.59984	0.5997	-0.00014
27	20	HDR UNBIAS	0.5998	0.59988	8e-05
28	20	HDR UNBIAS	0.6001	0.60012	2e-05
29	20	HDR UNBIAS	0.60012	0.59999	-0.00013
30	20	HDR UNBIAS	0.60017	0.60033	0.00016
31	30	HDR BIAS	0.60002	0.59971	-0.00031
32	30	HDR BIAS	0.60022	0.60034	0.00012
33	30	HDR BIAS	0.60016	0.59985	-0.00031
34	30	HDR BIAS	0.5998	0.59996	0.00016
35	30	HDR BIAS	0.59979	0.60025	0.00046
36	30	HDR UNBIAS	0.60019	0.60052	0.00033
37	30	HDR UNBIAS	0.59994	0.59991	-3e-05
38	30	HDR UNBIAS	0.60015	0.59977	-0.00038
39	30	HDR UNBIAS	0.59985	0.59995	0.0001
40	30	HDR UNBIAS	0.60032	0.60032	0
41	50	HDR BIAS	0.59994	0.59933	-0.00061
42	50	HDR BIAS	0.59996	0.60008	0.00012
43	50	HDR BIAS	0.59997	0.59997	0
44	50	HDR BIAS	0.59963	0.59921	-0.00042
45	50	HDR BIAS	0.60012	0.60009	-3e-05
46	50	HDR UNBIAS	0.60002	0.60106	0.00104
47	50	HDR UNBIAS	0.60014	0.60012	-2e-05
48	50	HDR UNBIAS	0.60021	0.59998	-0.00023
49	50	HDR UNBIAS	0.60031	0.60017	-0.00014
50	50	HDR UNBIAS	0.59981	0.60006	0.00025
71	0	CORRELATION	0.60047	0.60054	7e-05
72	0	CORRELATION	0.60028	0.60031	3e-05
73	0	CORRELATION	0.60017	0.60023	6e-05

## TID vs Post - Pre Exposure Delta



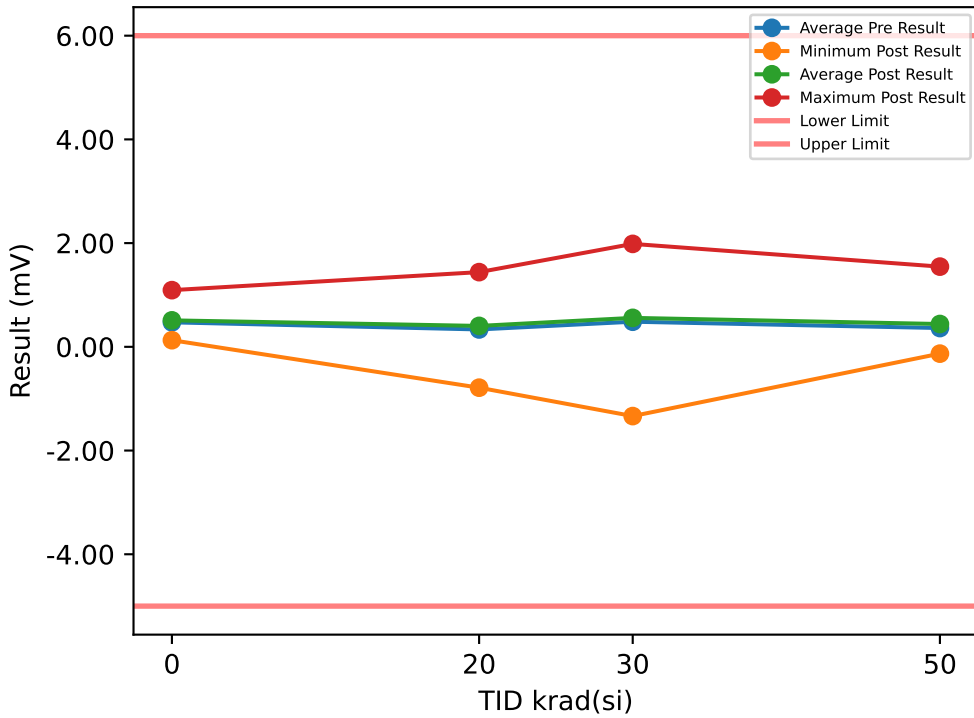
## Test Statistics (V)

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	0.60017	0.60031	0.60047	0.00015177	0.60023	0.60036	0.60054	0.00016093	3e-05	5.3333e-05	7e-05	2.0817e-05
20	0.59975	0.60001	0.60038	0.00022571	0.5997	0.60006	0.60033	0.0001797	-0.00028	5.3e-05	0.00034	0.00019995
30	0.59979	0.60004	0.60032	0.00019039	0.59971	0.60006	0.60052	0.00027668	-0.00038	1.4e-05	0.00046	0.00028009
50	0.59963	0.60001	0.60031	0.0001979	0.59921	0.60001	0.60106	0.00050098	-0.00061	-4e-06	0.00104	0.0004448



# Device Test: 19.57 VOLTAGE|OFFSET//12/12/0/0/5/1MHz//@EA\_OS

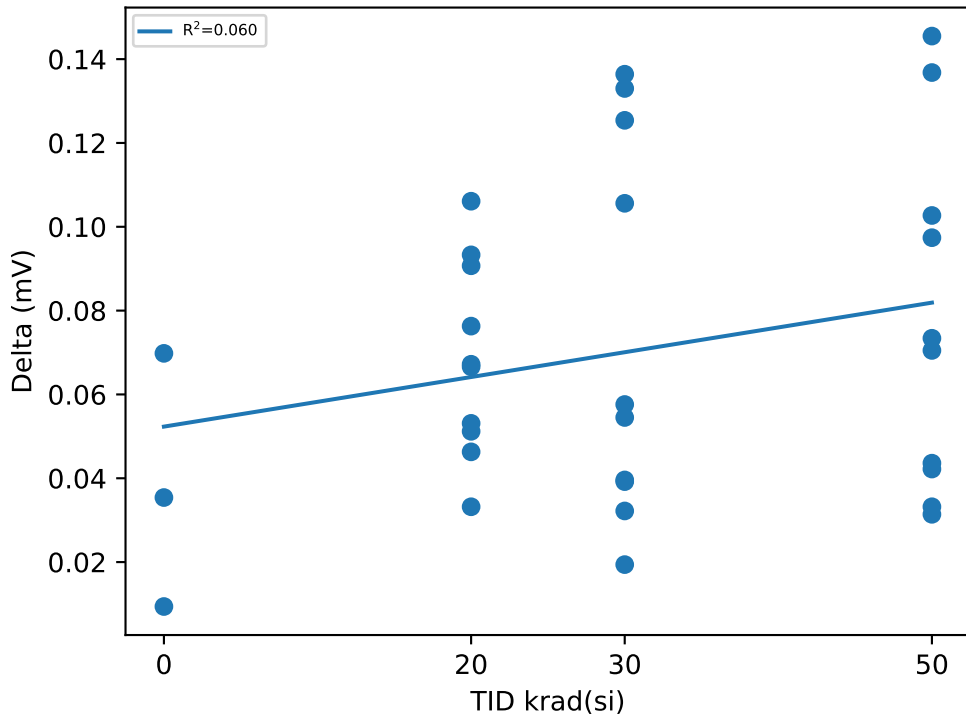
## TID vs Result Stats



## Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.768	-0.6773	0.0907
22	20	HDR BIAS	0.6106	0.7039	0.0933
23	20	HDR BIAS	1.3873	1.4404	0.0531
24	20	HDR BIAS	1.0994	1.166	0.0666
25	20	HDR BIAS	-0.6823	-0.6311	0.0512
26	20	HDR UNBIAS	-0.855	-0.7878	0.0672
27	20	HDR UNBIAS	-0.0994	-0.0531	0.0463
28	20	HDR UNBIAS	1.2846	1.3609	0.0763
29	20	HDR UNBIAS	0.0042	0.1103	0.1061
30	20	HDR UNBIAS	1.3689	1.4021	0.0332
31	30	HDR BIAS	-0.6822	-0.6277	0.0545
32	30	HDR BIAS	0.3067	0.4431	0.1364
33	30	HDR BIAS	1.5756	1.6078	0.0322
34	30	HDR BIAS	0.9482	1.0812	0.133
35	30	HDR BIAS	0.5955	0.6531	0.0576
36	30	HDR UNBIAS	1.9655	1.9849	0.0194
37	30	HDR UNBIAS	-1.4609	-1.3355	0.1254
38	30	HDR UNBIAS	1.3449	1.3841	0.0392
39	30	HDR UNBIAS	-0.0295	0.0101	0.0396
40	30	HDR UNBIAS	0.2768	0.3824	0.1056
41	50	HDR BIAS	0.3257	0.3962	0.0705
42	50	HDR BIAS	0.564	0.6614	0.0974
43	50	HDR BIAS	0.0792	0.1106	0.0314
44	50	HDR BIAS	-0.175	-0.1314	0.0436
45	50	HDR BIAS	1.5135	1.5467	0.0332
46	50	HDR UNBIAS	0.754	0.8567	0.1027
47	50	HDR UNBIAS	0.327	0.4004	0.0734
48	50	HDR UNBIAS	-0.0344	0.0078	0.0422
49	50	HDR UNBIAS	-0.1211	0.0157	0.1368
50	50	HDR UNBIAS	0.3897	0.5352	0.1455
71	0	CORRELATION	1.0231	1.0929	0.0698
72	0	CORRELATION	0.1185	0.1279	0.0094
73	0	CORRELATION	0.2749	0.3103	0.0354

## TID vs Post - Pre Exposure Delta



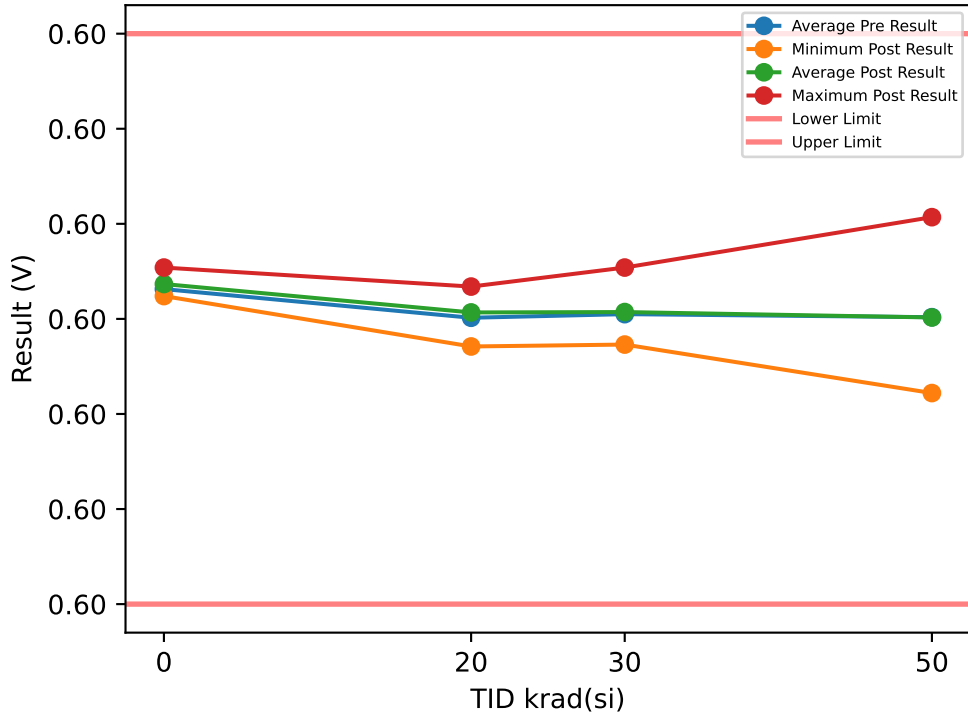
## Test Statistics (mV)

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	0.1185	0.47217	1.0231	0.48349	0.1279	0.51037	1.0929	0.51267	0.0094	0.0382	0.0698	0.030297
20	-0.855	0.33503	1.3873	0.9252	-0.7878	0.40343	1.4404	0.91971	0.0332	0.0684	0.1061	0.023245
30	-1.4609	0.48406	1.9655	1.0454	-1.3355	0.55835	1.9849	1.0241	0.0194	0.07429	0.1364	0.045688
50	-0.175	0.36226	1.5135	0.50361	-0.1314	0.43993	1.5467	0.50131	0.0314	0.07767	0.1455	0.041793



Device Test: 19.58 VOLTAGE|VREF//14/14/0/0/5/1MHz//@VREF\_25C

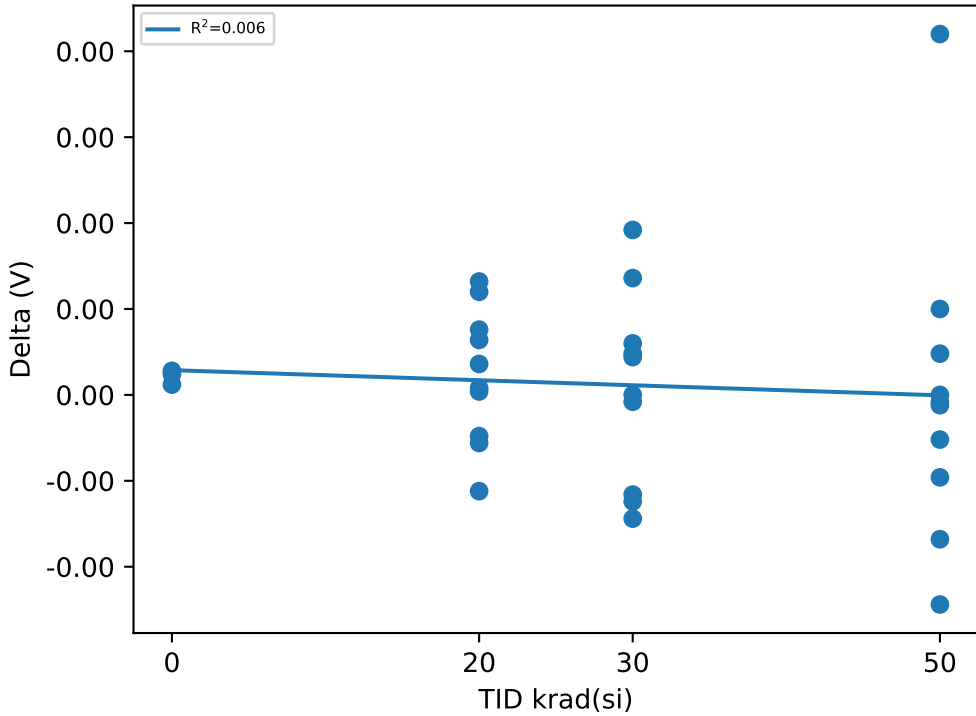
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60038	0.6001	-0.00028
22	20	HDR BIAS	0.59976	0.60009	0.00033
23	20	HDR BIAS	0.59989	0.60008	0.00019
24	20	HDR BIAS	0.60027	0.60028	1e-05
25	20	HDR BIAS	0.59978	0.60008	0.0003
26	20	HDR UNBIAS	0.59983	0.59971	-0.00012
27	20	HDR UNBIAS	0.5998	0.59989	9e-05
28	20	HDR UNBIAS	0.6001	0.60012	2e-05
29	20	HDR UNBIAS	0.60013	0.59999	-0.00014
30	20	HDR UNBIAS	0.60018	0.60034	0.00016
31	30	HDR BIAS	0.60002	0.59973	-0.00029
32	30	HDR BIAS	0.60022	0.60034	0.00012
33	30	HDR BIAS	0.60017	0.59986	-0.00031
34	30	HDR BIAS	0.59981	0.59996	0.00015
35	30	HDR BIAS	0.59979	0.60027	0.00048
36	30	HDR UNBIAS	0.6002	0.60054	0.00034
37	30	HDR UNBIAS	0.59996	0.59994	-2e-05
38	30	HDR UNBIAS	0.60014	0.59978	-0.00036
39	30	HDR UNBIAS	0.59986	0.59997	0.00011
40	30	HDR UNBIAS	0.60033	0.60033	0
41	50	HDR BIAS	0.59994	0.59933	-0.00061
42	50	HDR BIAS	0.59997	0.60009	0.00012
43	50	HDR BIAS	0.59999	0.59997	-2e-05
44	50	HDR BIAS	0.59964	0.59922	-0.00042
45	50	HDR BIAS	0.60012	0.60009	-3e-05
46	50	HDR UNBIAS	0.60002	0.60107	0.00105
47	50	HDR UNBIAS	0.60014	0.60014	0
48	50	HDR UNBIAS	0.60022	0.59998	-0.00024
49	50	HDR UNBIAS	0.60031	0.60018	-0.00013
50	50	HDR UNBIAS	0.59983	0.60008	0.00025
71	0	CORRELATION	0.60048	0.60054	6e-05
72	0	CORRELATION	0.60029	0.60032	3e-05
73	0	CORRELATION	0.60017	0.60024	7e-05

TID vs Post - Pre Exposure Delta

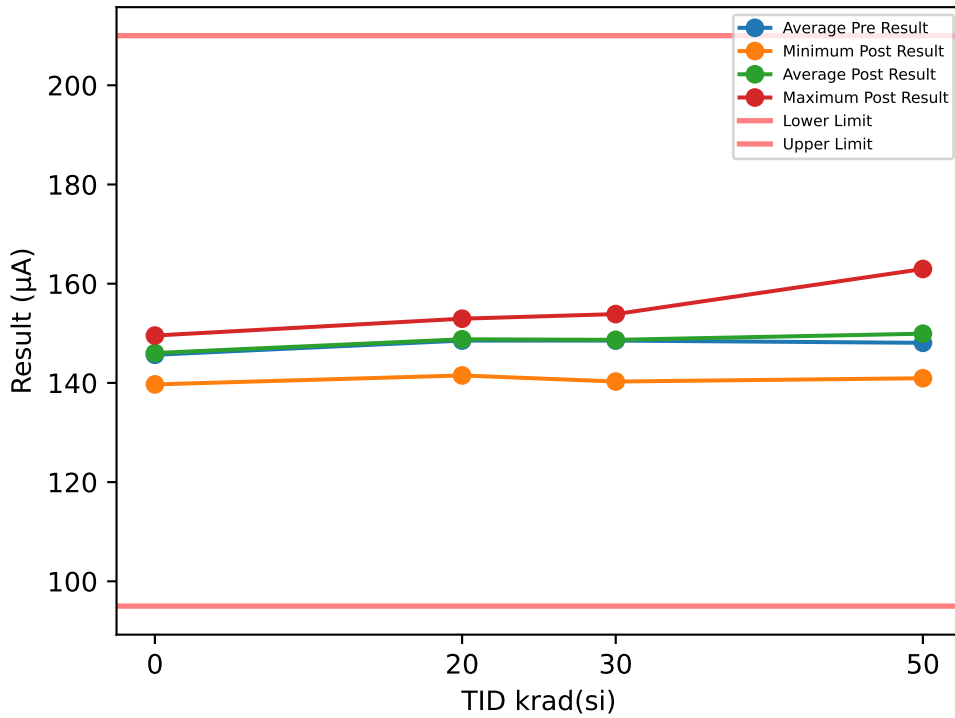


Test Statistics (V)

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	0.60017	0.60031	0.60048	0.00015631	0.60024	0.60037	0.60054	0.00015535	3e-05	5.3333e-05	7e-05	2.0817e-05
20	0.59976	0.60001	0.60038	0.00022661	0.59971	0.60007	0.60034	0.00017931	-0.00028	5.6e-05	0.00033	0.00019727
30	0.59979	0.60005	0.60033	0.00018933	0.59973	0.60007	0.60054	0.00027571	-0.00036	2.2e-05	0.00048	0.00027896
50	0.59964	0.60002	0.60031	0.00019401	0.59922	0.60001	0.60107	0.00050286	-0.00061	-3e-06	0.00105	0.00044766

# Device Test: 19.6 CURRENT|EA\_SOURCE//5/5/0/0/5/500kHz//@EA\_I\_SOURCE

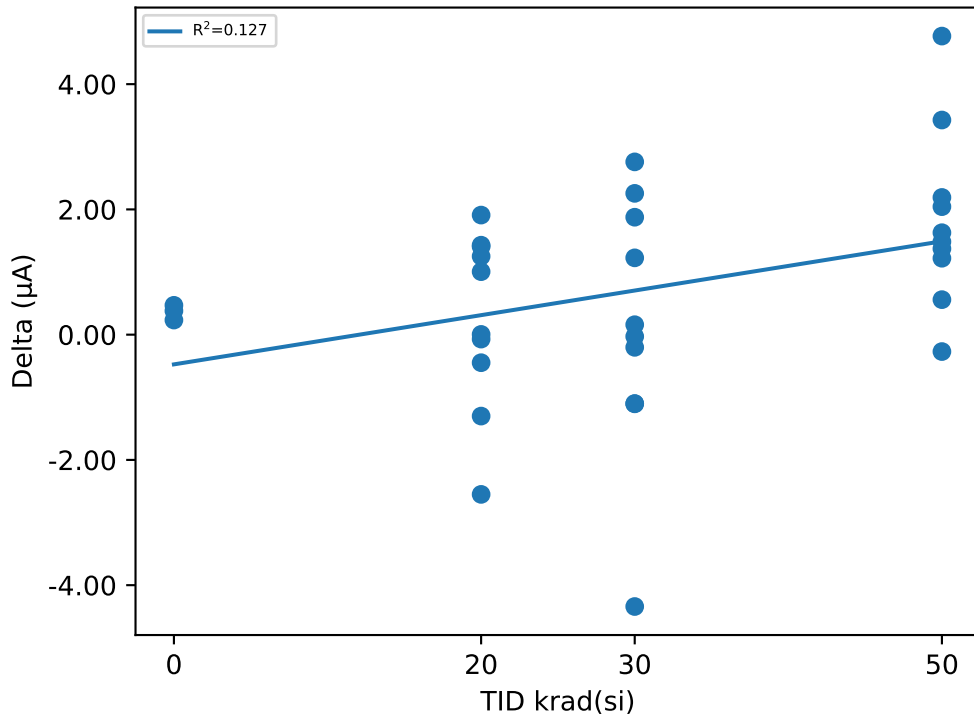
### TID vs Result Stats



### Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	144.25	146.16	1.9095
22	20	HDR BIAS	145.73	147.16	1.4287
23	20	HDR BIAS	148.15	149.56	1.406
24	20	HDR BIAS	151.41	148.86	-2.5504
25	20	HDR BIAS	152.15	152.15	0.004
26	20	HDR UNBIAS	149.28	147.98	-1.3
27	20	HDR UNBIAS	151.69	152.94	1.2515
28	20	HDR UNBIAS	151.02	152.03	1.006
29	20	HDR UNBIAS	150.07	149.62	-0.4477
30	20	HDR UNBIAS	141.58	141.51	-0.0707
31	30	HDR BIAS	149.52	148.41	-1.1045
32	30	HDR BIAS	153.37	153.52	0.159
33	30	HDR BIAS	148.43	150.68	2.2562
34	30	HDR BIAS	147.76	149.64	1.8753
35	30	HDR BIAS	153.9	153.87	-0.0287
36	30	HDR UNBIAS	148.17	150.93	2.7589
37	30	HDR UNBIAS	141.53	142.76	1.2265
38	30	HDR UNBIAS	147.36	147.16	-0.2024
39	30	HDR UNBIAS	153.89	149.55	-4.3408
40	30	HDR UNBIAS	141.37	140.27	-1.0997
41	50	HDR BIAS	141.71	143.19	1.4846
42	50	HDR BIAS	152.6	153.82	1.2204
43	50	HDR BIAS	145.29	145.02	-0.2698
44	50	HDR BIAS	148.75	150.37	1.628
45	50	HDR BIAS	146.79	147.35	0.5591
46	50	HDR UNBIAS	148.08	152.85	4.7676
47	50	HDR UNBIAS	147.52	148.89	1.3729
48	50	HDR UNBIAS	138.75	140.94	2.191
49	50	HDR UNBIAS	160.92	162.96	2.044
50	50	HDR UNBIAS	150.38	153.81	3.4274
71	0	CORRELATION	149.31	149.55	0.2333
72	0	CORRELATION	139.32	139.7	0.3804
73	0	CORRELATION	148.36	148.83	0.4686

### TID vs Post - Pre Exposure Delta

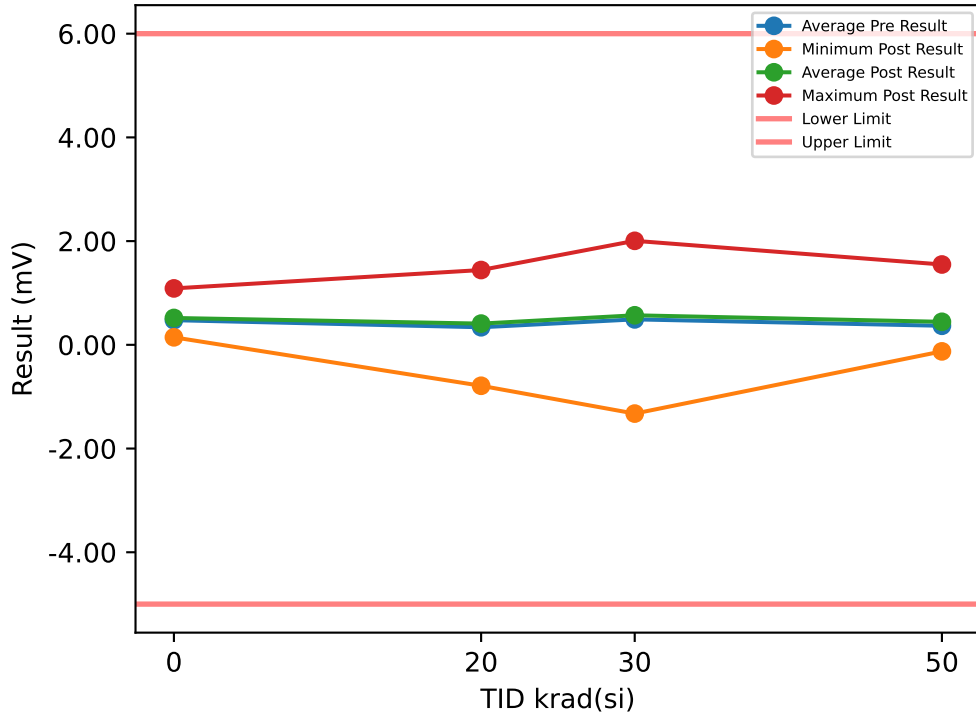


### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	139.32	145.66	149.31	5.5169	139.7	146.02	149.55	5.491	0.2333	0.36077	0.4686	0.11887
20	141.58	148.53	152.15	3.5777	141.51	148.8	152.94	3.3933	-2.5504	0.26369	1.9095	1.4121
30	141.37	148.53	153.9	4.5242	140.27	148.68	153.87	4.337	-4.3408	0.14998	2.7589	2.0773
50	138.75	148.08	160.92	6.0414	140.94	149.92	162.96	6.3842	-0.2698	1.8425	4.7676	1.4189

# Device Test: 19.60 VOLTAGE|OFFSET//14/14/0/0/5/1MHz//@EA\_OS

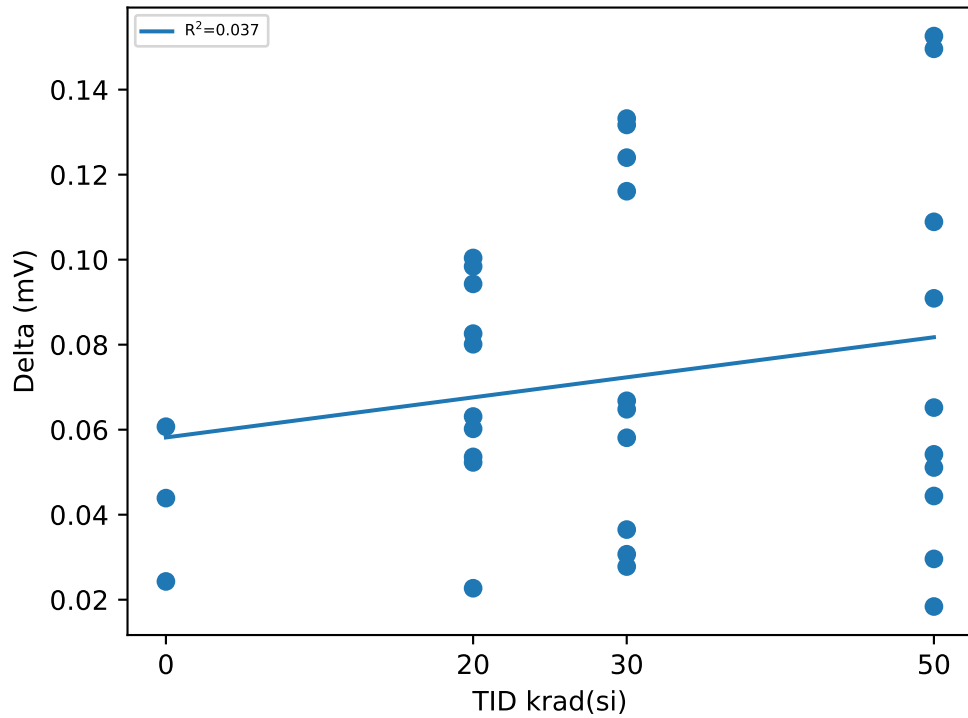
## TID vs Result Stats



## Test Results (Lower Limit = -5.0, Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.7684	-0.6741	0.0943
22	20	HDR BIAS	0.6089	0.7073	0.0984
23	20	HDR BIAS	1.3793	1.4424	0.0631
24	20	HDR BIAS	1.1022	1.1848	0.0826
25	20	HDR BIAS	-0.6857	-0.6334	0.0523
26	20	HDR UNBIAS	-0.8497	-0.7895	0.0602
27	20	HDR UNBIAS	-0.0889	-0.0353	0.0536
28	20	HDR UNBIAS	1.291	1.3711	0.0801
29	20	HDR UNBIAS	0.0068	0.1072	0.1004
30	20	HDR UNBIAS	1.3911	1.4138	0.0227
31	30	HDR BIAS	-0.6741	-0.616	0.0581
32	30	HDR BIAS	0.3114	0.4446	0.1332
33	30	HDR BIAS	1.5837	1.6144	0.0307
34	30	HDR BIAS	0.953	1.077	0.124
35	30	HDR BIAS	0.6059	0.6727	0.0668
36	30	HDR UNBIAS	1.969	2.0055	0.0365
37	30	HDR UNBIAS	-1.4575	-1.3258	0.1317
38	30	HDR UNBIAS	1.3333	1.3981	0.0648
39	30	HDR UNBIAS	-0.0095	0.0183	0.0278
40	30	HDR UNBIAS	0.2908	0.4069	0.1161
41	50	HDR BIAS	0.3346	0.3888	0.0542
42	50	HDR BIAS	0.5711	0.68	0.1089
43	50	HDR BIAS	0.0932	0.1116	0.0184
44	50	HDR BIAS	-0.1707	-0.1263	0.0444
45	50	HDR BIAS	1.5196	1.5492	0.0296
46	50	HDR UNBIAS	0.7595	0.8504	0.0909
47	50	HDR UNBIAS	0.3424	0.4076	0.0652
48	50	HDR UNBIAS	-0.0373	0.0138	0.0511
49	50	HDR UNBIAS	-0.1361	0.0165	0.1526
50	50	HDR UNBIAS	0.3971	0.5467	0.1496
71	0	CORRELATION	1.0273	1.088	0.0607
72	0	CORRELATION	0.1205	0.1448	0.0243
73	0	CORRELATION	0.2775	0.3214	0.0439

## TID vs Post - Pre Exposure Delta

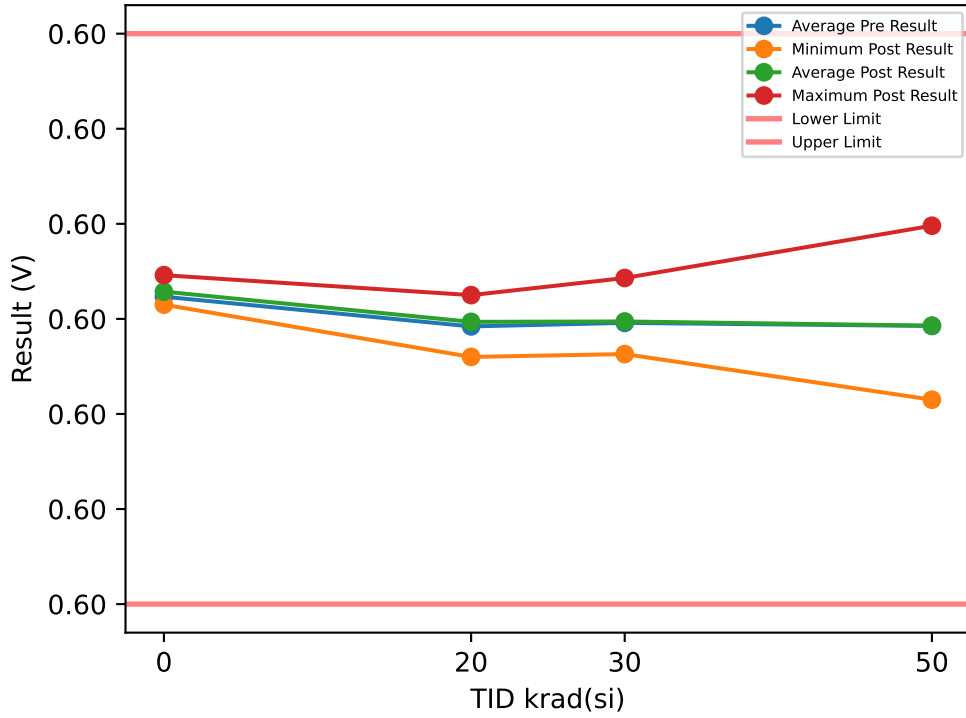


## Test Statistics (mV)

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	0.1205	0.4751	1.0273	0.48462	0.1448	0.51807	1.088	0.50141	0.0243	0.042967	0.0607	0.018218
20	-0.8497	0.33866	1.3911	0.92698	-0.7895	0.40943	1.4424	0.92368	0.0227	0.07077	0.1004	0.024809
30	-1.4575	0.4906	1.969	1.043	-1.3258	0.56957	2.0055	1.0248	0.0278	0.07897	0.1332	0.04303
50	-0.1707	0.36734	1.5196	0.50634	-0.1263	0.44383	1.5492	0.5012	0.0184	0.07649	0.1526	0.047455

# Device Test: 19.61 VOLTAGE|VREF//4.5/4.5/0/1000/4.5/100kHz//@VREF\_25C

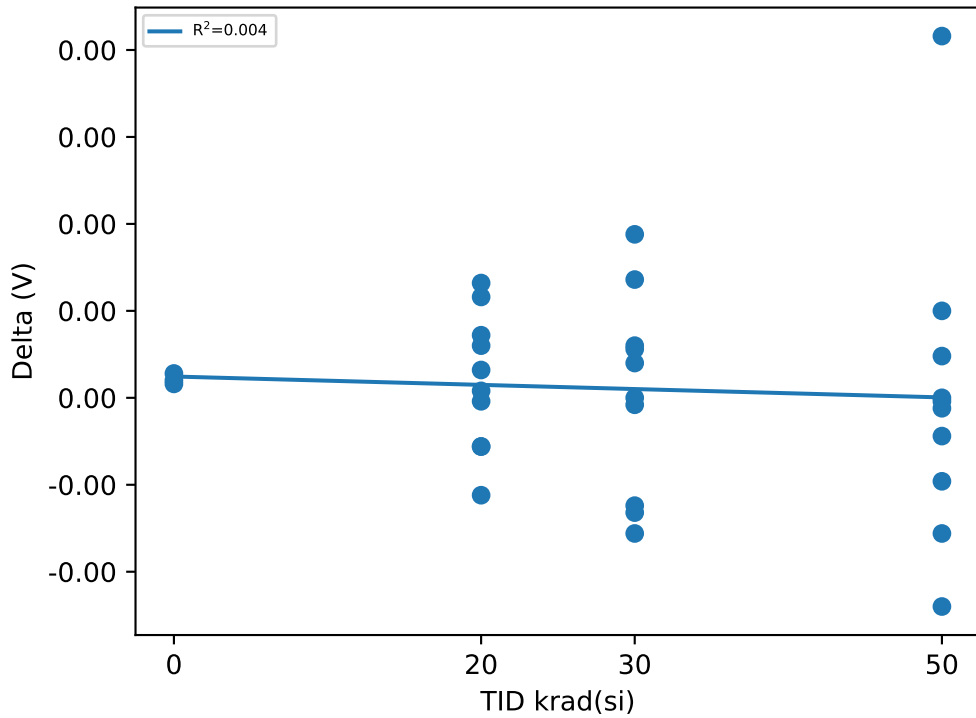
### TID vs Result Stats



### Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60029	0.60001	-0.00028
22	20	HDR BIAS	0.59966	0.59999	0.00033
23	20	HDR BIAS	0.5998	0.59998	0.00018
24	20	HDR BIAS	0.60018	0.60017	-1e-05
25	20	HDR BIAS	0.59969	0.59998	0.00029
26	20	HDR UNBIAS	0.59974	0.5996	-0.00014
27	20	HDR UNBIAS	0.59971	0.59979	8e-05
28	20	HDR UNBIAS	0.6	0.60002	2e-05
29	20	HDR UNBIAS	0.60004	0.5999	-0.00014
30	20	HDR UNBIAS	0.6001	0.60025	0.00015
31	30	HDR BIAS	0.59996	0.59963	-0.00033
32	30	HDR BIAS	0.60011	0.60025	0.00014
33	30	HDR BIAS	0.60007	0.59976	-0.00031
34	30	HDR BIAS	0.59971	0.59986	0.00015
35	30	HDR BIAS	0.59971	0.60018	0.00047
36	30	HDR UNBIAS	0.60009	0.60043	0.00034
37	30	HDR UNBIAS	0.59985	0.59983	-2e-05
38	30	HDR UNBIAS	0.60006	0.59967	-0.00039
39	30	HDR UNBIAS	0.59976	0.59986	0.0001
40	30	HDR UNBIAS	0.60026	0.60026	0
41	50	HDR BIAS	0.59985	0.59925	-0.0006
42	50	HDR BIAS	0.59987	0.59999	0.00012
43	50	HDR BIAS	0.5999	0.59989	-1e-05
44	50	HDR BIAS	0.59954	0.59915	-0.00039
45	50	HDR BIAS	0.60003	0.6	-3e-05
46	50	HDR UNBIAS	0.59994	0.60098	0.00104
47	50	HDR UNBIAS	0.60006	0.60006	0
48	50	HDR UNBIAS	0.60013	0.59989	-0.00024
49	50	HDR UNBIAS	0.60019	0.60008	-0.00011
50	50	HDR UNBIAS	0.59975	0.6	0.00025
71	0	CORRELATION	0.60041	0.60046	5e-05
72	0	CORRELATION	0.60021	0.60025	4e-05
73	0	CORRELATION	0.60008	0.60015	7e-05

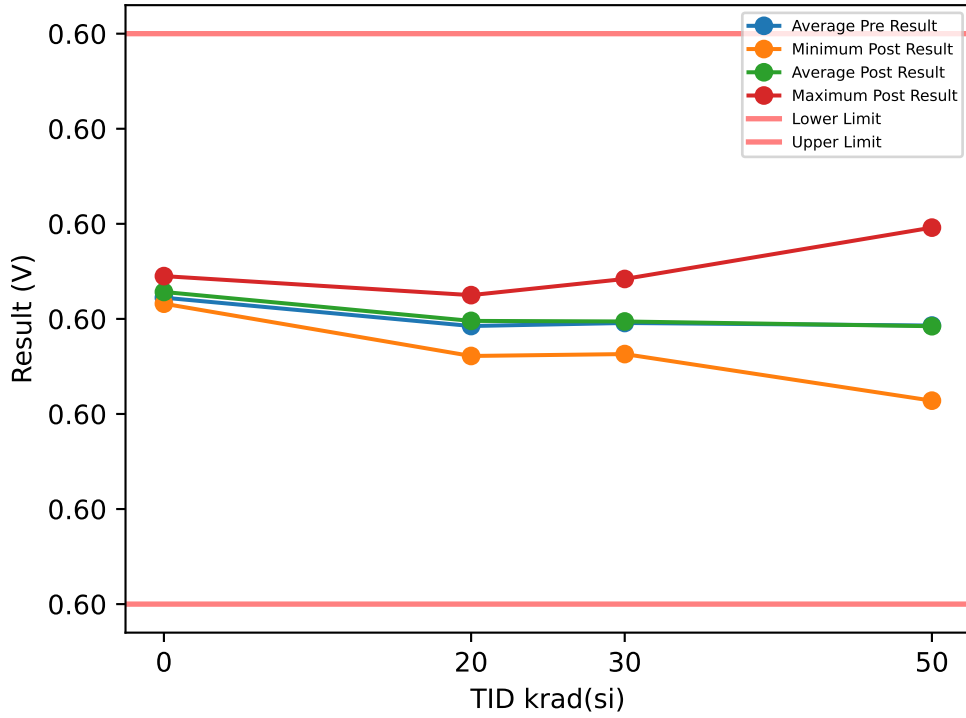
### TID vs Post - Pre Exposure Delta



### 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	0.60008	0.60023	0.60041	0.00016623	0.60015	0.60029	0.60046	0.00015822	4e-05	5.3333e-05	7e-05	1.5275e-05
20	0.59966	0.59992	0.60029	0.0002283	0.5996	0.59997	0.60025	0.00018175	-0.00028	4.8e-05	0.00033	0.00019702
30	0.59971	0.59996	0.60026	0.00019107	0.59963	0.59997	0.60043	0.00028119	-0.00039	1.5e-05	0.00047	0.00028749
50	0.59954	0.59993	0.60019	0.00019144	0.59915	0.59993	0.60098	0.00049769	-0.0006	3e-06	0.00104	0.00043985

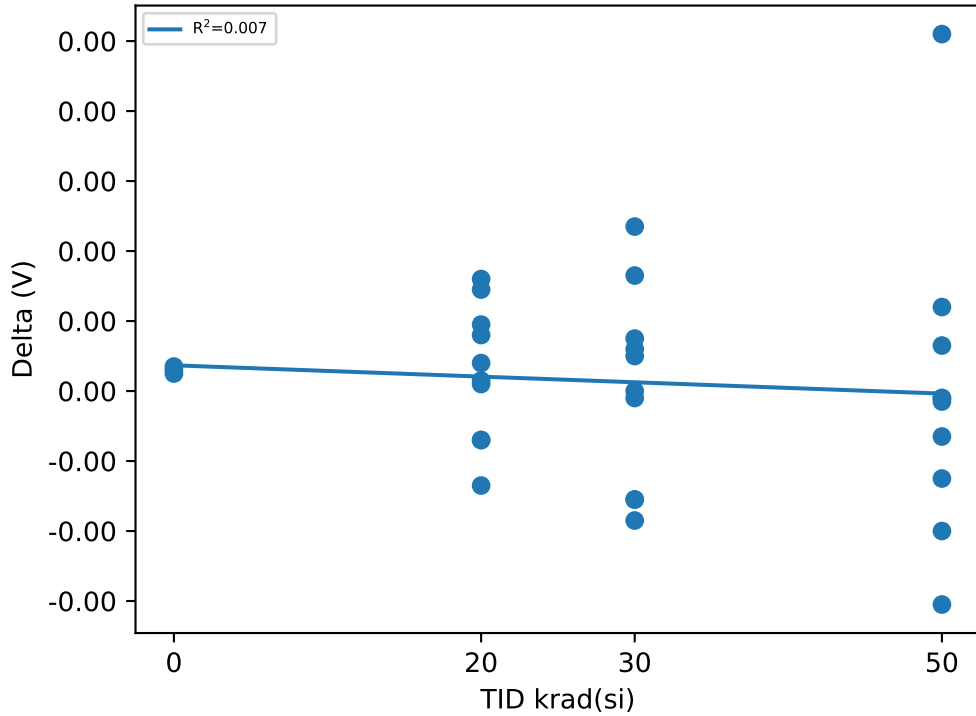
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60029	0.60002	-0.00027
22	20	HDR BIAS	0.59967	0.59999	0.00032
23	20	HDR BIAS	0.59982	0.60001	0.00019
24	20	HDR BIAS	0.60017	0.60019	2e-05
25	20	HDR BIAS	0.59969	0.59998	0.00029
26	20	HDR UNBIAS	0.59975	0.59961	-0.00014
27	20	HDR UNBIAS	0.59972	0.5998	8e-05
28	20	HDR UNBIAS	0.60001	0.60004	3e-05
29	20	HDR UNBIAS	0.60004	0.5999	-0.00014
30	20	HDR UNBIAS	0.60009	0.60025	0.00016
31	30	HDR BIAS	0.59994	0.59963	-0.00031
32	30	HDR BIAS	0.60013	0.60025	0.00012
33	30	HDR BIAS	0.60008	0.59977	-0.00031
34	30	HDR BIAS	0.59972	0.59987	0.00015
35	30	HDR BIAS	0.59971	0.60018	0.00047
36	30	HDR UNBIAS	0.60009	0.60042	0.00033
37	30	HDR UNBIAS	0.59985	0.59983	-2e-05
38	30	HDR UNBIAS	0.60006	0.59969	-0.00037
39	30	HDR UNBIAS	0.59975	0.59985	0.0001
40	30	HDR UNBIAS	0.60024	0.60024	0
41	50	HDR BIAS	0.59986	0.59925	-0.00061
42	50	HDR BIAS	0.59988	0.60001	0.00013
43	50	HDR BIAS	0.59989	0.59987	-2e-05
44	50	HDR BIAS	0.59954	0.59914	-0.0004
45	50	HDR BIAS	0.60003	0.6	-3e-05
46	50	HDR UNBIAS	0.59994	0.60096	0.00102
47	50	HDR UNBIAS	0.60006	0.60004	-2e-05
48	50	HDR UNBIAS	0.60014	0.59989	-0.00025
49	50	HDR UNBIAS	0.60022	0.60009	-0.00013
50	50	HDR UNBIAS	0.59974	0.59998	0.00024
71	0	CORRELATION	0.60039	0.60045	6e-05
72	0	CORRELATION	0.60019	0.60024	5e-05
73	0	CORRELATION	0.60009	0.60016	7e-05

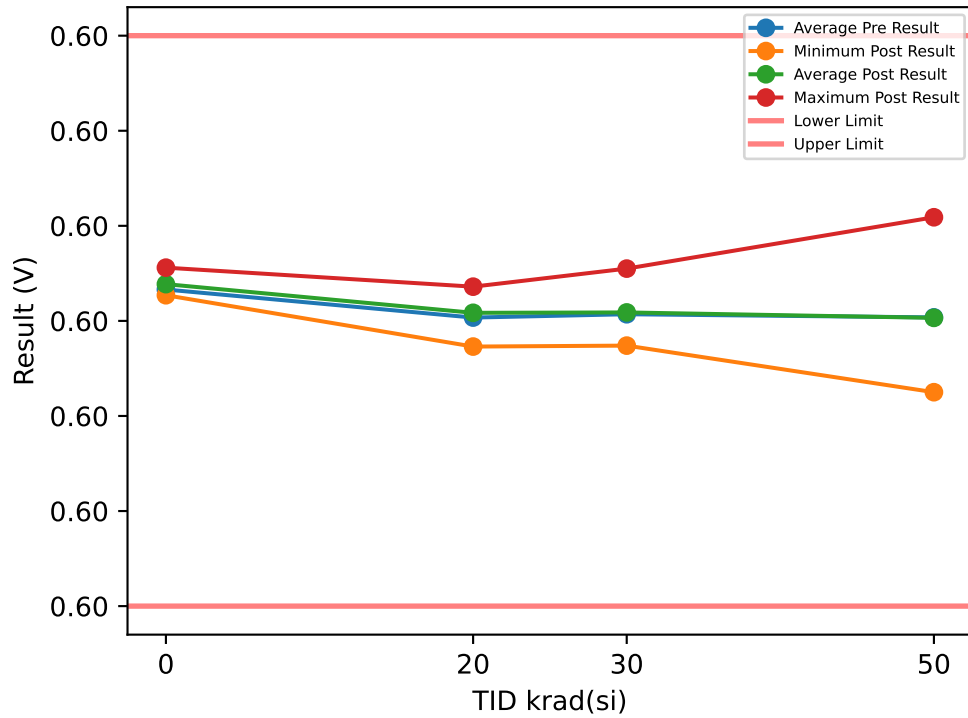
TID vs Post - Pre Exposure Delta



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	0.60009	0.60022	0.60039	0.00015275	0.60016	0.60028	0.60045	0.00014978	5e-05	6e-05	7e-05	1e-05
20	0.59967	0.59993	0.60029	0.00022232	0.59961	0.59998	0.60025	0.00018224	-0.00027	5.4e-05	0.00032	0.00019403
30	0.59971	0.59996	0.60024	0.00019009	0.59963	0.59997	0.60042	0.00027403	-0.00037	1.6e-05	0.00047	0.00027961
50	0.59954	0.59993	0.60022	0.00019788	0.59914	0.59992	0.60096	0.00049482	-0.00061	-7e-06	0.00102	0.00043813

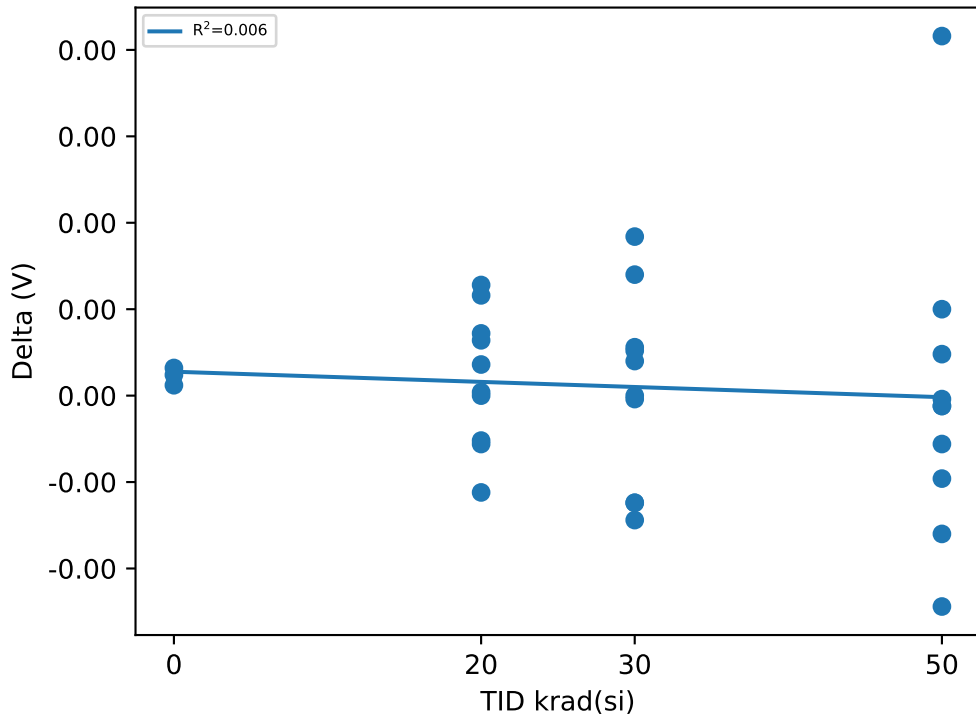
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6004	0.60012	-0.00028
22	20	HDR BIAS	0.59978	0.6001	0.00032
23	20	HDR BIAS	0.59993	0.60011	0.00018
24	20	HDR BIAS	0.60029	0.60029	0
25	20	HDR BIAS	0.5998	0.60009	0.00029
26	20	HDR UNBIAS	0.59986	0.59973	-0.00013
27	20	HDR UNBIAS	0.59982	0.59991	9e-05
28	20	HDR UNBIAS	0.60012	0.60013	1e-05
29	20	HDR UNBIAS	0.60015	0.60001	-0.00014
30	20	HDR UNBIAS	0.6002	0.60036	0.00016
31	30	HDR BIAS	0.60005	0.59974	-0.00031
32	30	HDR BIAS	0.60023	0.60036	0.00013
33	30	HDR BIAS	0.6002	0.59989	-0.00031
34	30	HDR BIAS	0.59984	0.59998	0.00014
35	30	HDR BIAS	0.59982	0.60028	0.00046
36	30	HDR UNBIAS	0.6002	0.60055	0.00035
37	30	HDR UNBIAS	0.59996	0.59995	-1e-05
38	30	HDR UNBIAS	0.60017	0.59981	-0.00036
39	30	HDR UNBIAS	0.59988	0.59998	0.0001
40	30	HDR UNBIAS	0.60035	0.60035	0
41	50	HDR BIAS	0.59997	0.59936	-0.00061
42	50	HDR BIAS	0.59998	0.6001	0.00012
43	50	HDR BIAS	0.6	0.59997	-3e-05
44	50	HDR BIAS	0.59965	0.59925	-0.0004
45	50	HDR BIAS	0.60014	0.60011	-3e-05
46	50	HDR UNBIAS	0.60005	0.60109	0.00104
47	50	HDR UNBIAS	0.60017	0.60016	-1e-05
48	50	HDR UNBIAS	0.60023	0.59999	-0.00024
49	50	HDR UNBIAS	0.60033	0.60019	-0.00014
50	50	HDR UNBIAS	0.59985	0.6001	0.00025
71	0	CORRELATION	0.6005	0.60056	6e-05
72	0	CORRELATION	0.6003	0.60033	3e-05
73	0	CORRELATION	0.60019	0.60027	8e-05

TID vs Post - Pre Exposure Delta

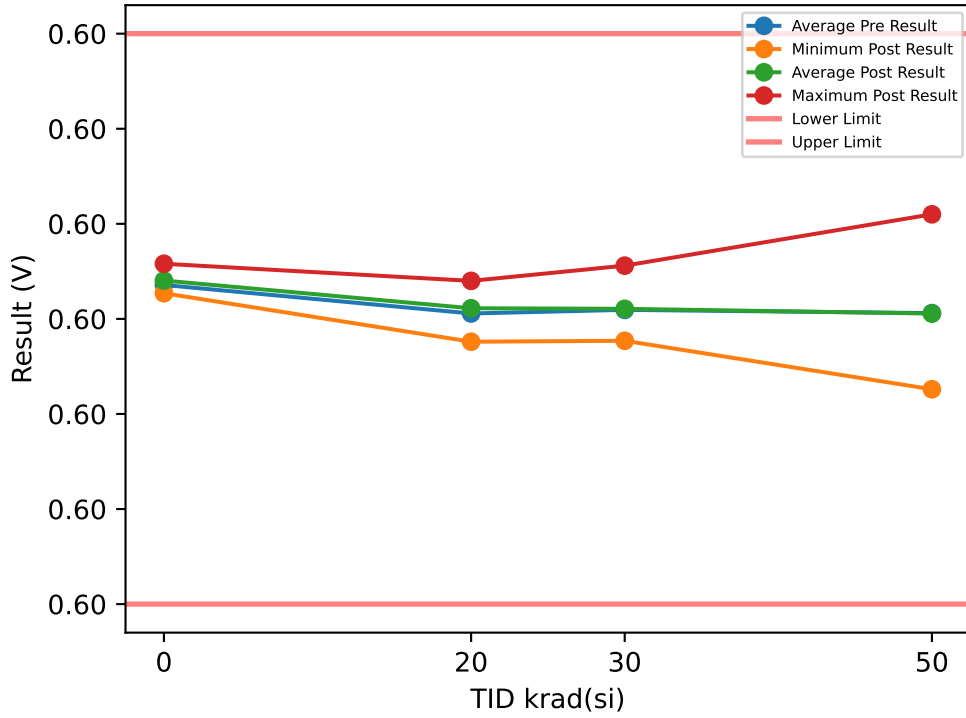


Test Statistics (V)

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	0.60019	0.60033	0.6005	0.00015716	0.60027	0.60039	0.60056	0.00015308	3e-05	5.6667e-05	8e-05	2.5166e-05
20	0.59978	0.60003	0.6004	0.00022461	0.59973	0.60008	0.60036	0.00017765	-0.00028	5e-05	0.00032	0.00019511
30	0.59982	0.60007	0.60035	0.00018613	0.59974	0.60009	0.60055	0.00027343	-0.00036	1.9e-05	0.00046	0.00027867
50	0.59965	0.60004	0.60033	0.00019591	0.59925	0.60003	0.60109	0.00049942	-0.00061	-5e-06	0.00104	0.0004434



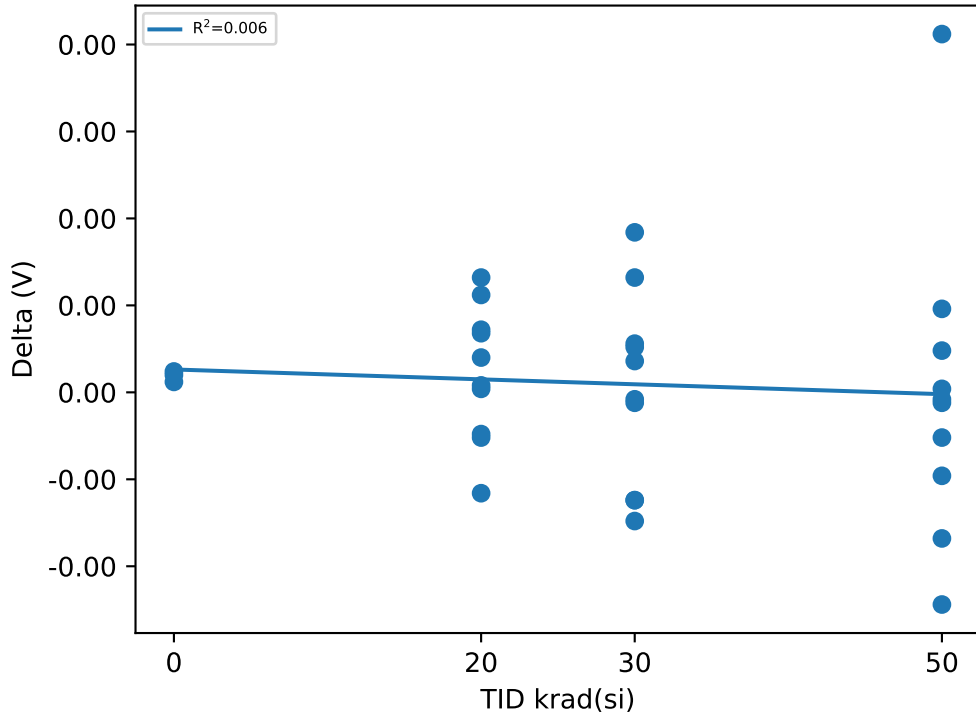
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60043	0.60014	-0.00029
22	20	HDR BIAS	0.5998	0.60013	0.00033
23	20	HDR BIAS	0.59996	0.60013	0.00017
24	20	HDR BIAS	0.6003	0.60032	2e-05
25	20	HDR BIAS	0.59983	0.60011	0.00028
26	20	HDR UNBIAS	0.59988	0.59976	-0.00012
27	20	HDR UNBIAS	0.59984	0.59994	0.0001
28	20	HDR UNBIAS	0.60014	0.60015	1e-05
29	20	HDR UNBIAS	0.60017	0.60004	-0.00013
30	20	HDR UNBIAS	0.60022	0.6004	0.00018
31	30	HDR BIAS	0.60008	0.59977	-0.00031
32	30	HDR BIAS	0.60025	0.60039	0.00014
33	30	HDR BIAS	0.60022	0.59991	-0.00031
34	30	HDR BIAS	0.59986	0.59999	0.00013
35	30	HDR BIAS	0.59984	0.6003	0.00046
36	30	HDR UNBIAS	0.60023	0.60056	0.00033
37	30	HDR UNBIAS	0.59999	0.59996	-3e-05
38	30	HDR UNBIAS	0.60019	0.59982	-0.00037
39	30	HDR UNBIAS	0.59991	0.6	9e-05
40	30	HDR UNBIAS	0.60038	0.60036	-2e-05
41	50	HDR BIAS	0.59999	0.59938	-0.00061
42	50	HDR BIAS	0.6	0.60012	0.00012
43	50	HDR BIAS	0.60003	0.6	-3e-05
44	50	HDR BIAS	0.59968	0.59926	-0.00042
45	50	HDR BIAS	0.60015	0.60013	-2e-05
46	50	HDR UNBIAS	0.60007	0.6011	0.00103
47	50	HDR UNBIAS	0.60019	0.6002	1e-05
48	50	HDR UNBIAS	0.60027	0.60003	-0.00024
49	50	HDR UNBIAS	0.60035	0.60022	-0.00013
50	50	HDR UNBIAS	0.59988	0.60012	0.00024
71	0	CORRELATION	0.60053	0.60058	5e-05
72	0	CORRELATION	0.60033	0.60036	3e-05
73	0	CORRELATION	0.60021	0.60027	6e-05

TID vs Post - Pre Exposure Delta



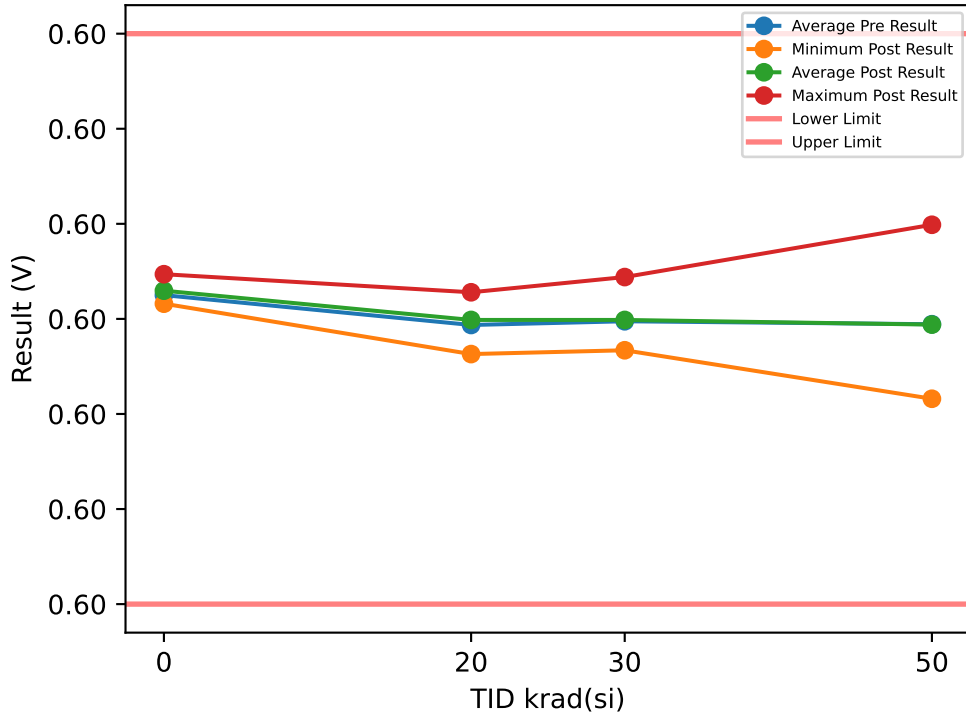
Test Statistics (V)

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	0.60021	0.60036	0.60053	0.00016166	0.60027	0.6004	0.60058	0.00015948	3e-05	4.6667e-05	6e-05	1.5275e-05
20	0.5998	0.60006	0.60043	0.00022356	0.59976	0.60011	0.6004	0.00017881	-0.00029	5.5e-05	0.00033	0.00019558
30	0.59984	0.60009	0.60038	0.00018674	0.59977	0.60011	0.60056	0.00027245	-0.00037	1.1e-05	0.00046	0.00027775
50	0.59968	0.60006	0.60035	0.00019422	0.59926	0.60006	0.6011	0.00049952	-0.00061	-5e-06	0.00103	0.00044185



# Device Test: 19.69 VOLTAGE|VREF//4.5/4.5/0/1000/4.5/500kHz//@VREF\_25C

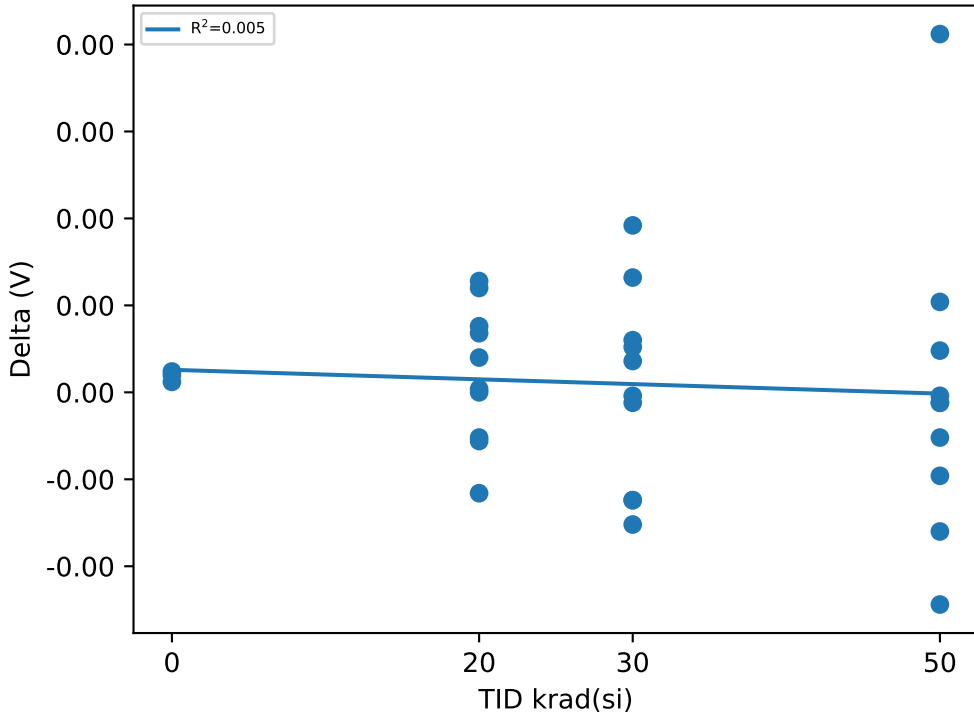
### TID vs Result Stats



### Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60031	0.60002	-0.00029
22	20	HDR BIAS	0.59968	0.6	0.00032
23	20	HDR BIAS	0.59982	0.60001	0.00019
24	20	HDR BIAS	0.60018	0.60019	1e-05
25	20	HDR BIAS	0.59969	0.59999	0.00003
26	20	HDR UNBIAS	0.59976	0.59963	-0.00013
27	20	HDR UNBIAS	0.59972	0.59982	0.00001
28	20	HDR UNBIAS	0.60003	0.60003	0
29	20	HDR UNBIAS	0.60006	0.59992	-0.00014
30	20	HDR UNBIAS	0.60011	0.60028	0.00017
31	30	HDR BIAS	0.59998	0.59967	-0.00031
32	30	HDR BIAS	0.60013	0.60026	0.00013
33	30	HDR BIAS	0.60009	0.59978	-0.00031
34	30	HDR BIAS	0.59973	0.59988	0.00015
35	30	HDR BIAS	0.59972	0.60002	0.00048
36	30	HDR UNBIAS	0.60011	0.60044	0.00033
37	30	HDR UNBIAS	0.59985	0.59982	-3e-05
38	30	HDR UNBIAS	0.60007	0.59969	-0.00038
39	30	HDR UNBIAS	0.59979	0.59988	9e-05
40	30	HDR UNBIAS	0.60028	0.60027	-1e-05
41	50	HDR BIAS	0.59987	0.59926	-0.00061
42	50	HDR BIAS	0.59989	0.60001	0.00012
43	50	HDR BIAS	0.59992	0.59989	-3e-05
44	50	HDR BIAS	0.59956	0.59916	-0.0004
45	50	HDR BIAS	0.60004	0.60001	-3e-05
46	50	HDR UNBIAS	0.59996	0.60099	0.00103
47	50	HDR UNBIAS	0.60007	0.60006	-1e-05
48	50	HDR UNBIAS	0.60015	0.59991	-0.00024
49	50	HDR UNBIAS	0.60022	0.60009	-0.00013
50	50	HDR UNBIAS	0.59976	0.60002	0.00026
71	0	CORRELATION	0.60042	0.60047	5e-05
72	0	CORRELATION	0.60023	0.60026	3e-05
73	0	CORRELATION	0.60001	0.60016	6e-05

### TID vs Post - Pre Exposure Delta

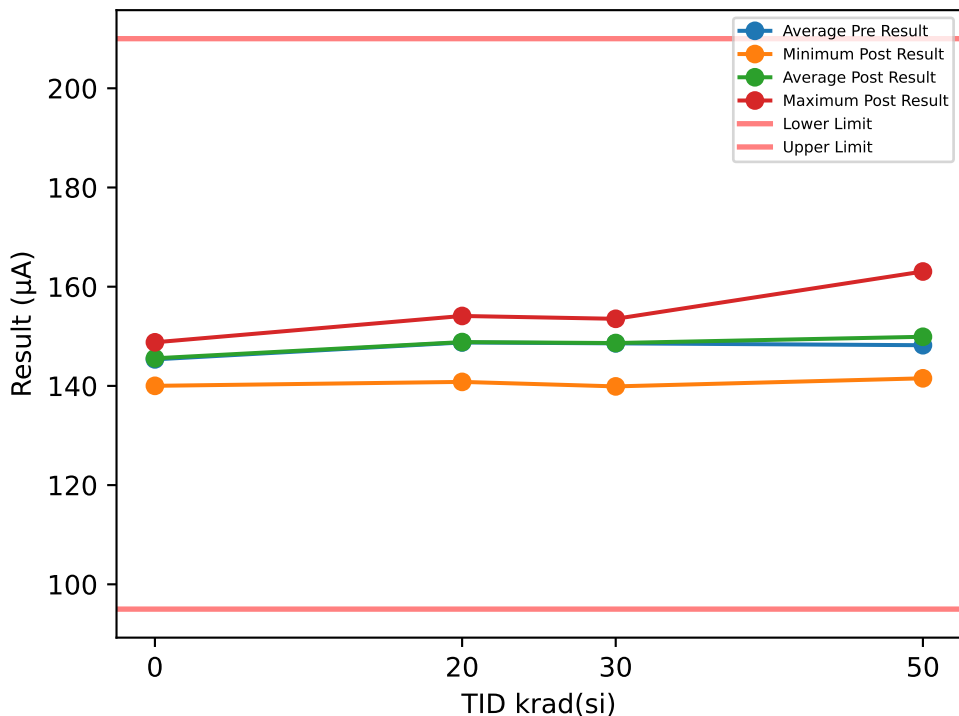


### Test Statistics (V)

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	0.6001	0.60025	0.60042	0.00016093	0.60016	0.6003	0.60047	0.00015822	3e-05	4.6667e-05	6e-05	1.5275e-05
20	0.59968	0.59994	0.60031	0.00022877	0.59963	0.59999	0.60028	0.00017966	-0.00029	5.3e-05	0.00032	0.0002
30	0.59972	0.59998	0.60028	0.00019219	0.59967	0.59999	0.60044	0.00027638	-0.00038	1.4e-05	0.00048	0.00028332
50	0.59956	0.59994	0.60022	0.00019271	0.59916	0.59994	0.60099	0.00049775	-0.00061	-4e-06	0.00103	0.00044111

# Device Test: 19.7 CURRENT|EA\_SINK//5/5/0/0/5/500kHz//@EA\_I\_SINK

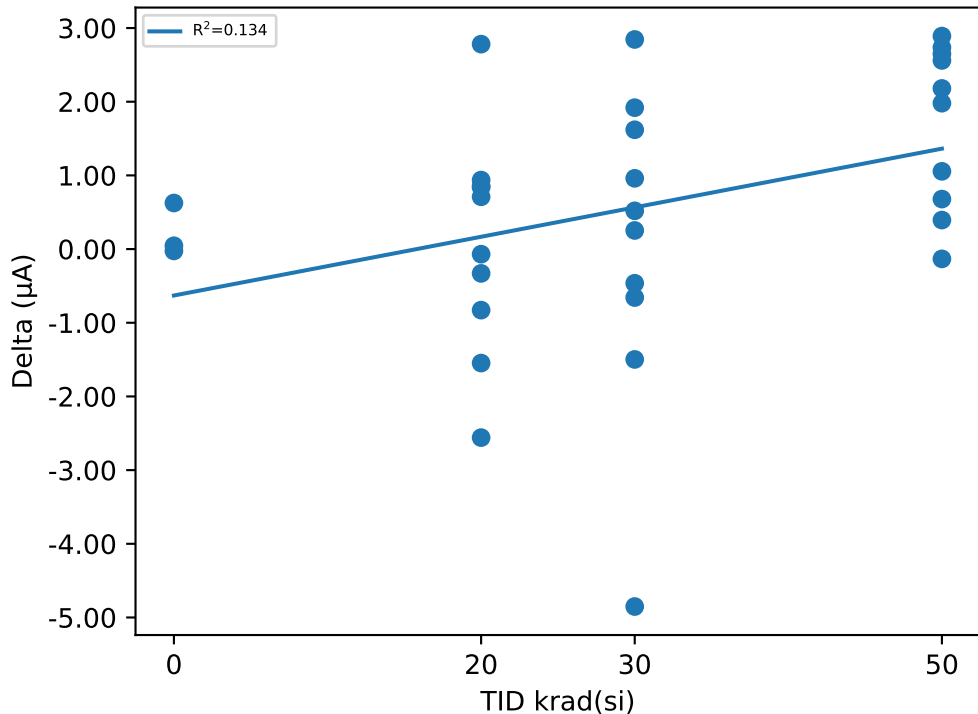
### TID vs Result Stats



### Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	145.06	147.85	2.7816
22	20	HDR BIAS	145.91	146.84	0.9369
23	20	HDR BIAS	147.24	148.08	0.8371
24	20	HDR BIAS	149.65	147.09	-2.5588
25	20	HDR BIAS	153.83	153	-0.8286
26	20	HDR UNBIAS	151.17	149.62	-1.5471
27	20	HDR UNBIAS	153.39	154.1	0.7099
28	20	HDR UNBIAS	150.11	150.96	0.8564
29	20	HDR UNBIAS	150.07	150	-0.0693
30	20	HDR UNBIAS	141.14	140.81	-0.33
31	30	HDR BIAS	150.01	149.55	-0.4639
32	30	HDR BIAS	152.96	153.21	0.2527
33	30	HDR BIAS	147.73	150.58	2.8451
34	30	HDR BIAS	148.35	150.27	1.9192
35	30	HDR BIAS	154.18	153.53	-0.6577
36	30	HDR UNBIAS	146.89	148.51	1.6194
37	30	HDR UNBIAS	143.43	144.39	0.9603
38	30	HDR UNBIAS	146.05	146.57	0.5192
39	30	HDR UNBIAS	154.77	149.92	-4.8512
40	30	HDR UNBIAS	141.4	139.9	-1.4977
41	50	HDR BIAS	141.33	143.98	2.6494
42	50	HDR BIAS	152.82	153.88	1.0553
43	50	HDR BIAS	145.44	145.31	-0.1331
44	50	HDR BIAS	150.92	152.9	1.9802
45	50	HDR BIAS	146.23	146.62	0.3939
46	50	HDR UNBIAS	147.6	150.49	2.8909
47	50	HDR UNBIAS	146.86	147.54	0.6787
48	50	HDR UNBIAS	138.97	141.53	2.5602
49	50	HDR UNBIAS	160.88	163.06	2.18
50	50	HDR UNBIAS	150.98	153.72	2.7362
71	0	CORRELATION	147.84	147.88	0.045
72	0	CORRELATION	140.04	140.01	-0.025
73	0	CORRELATION	148.16	148.79	0.6253

### TID vs Post - Pre Exposure Delta

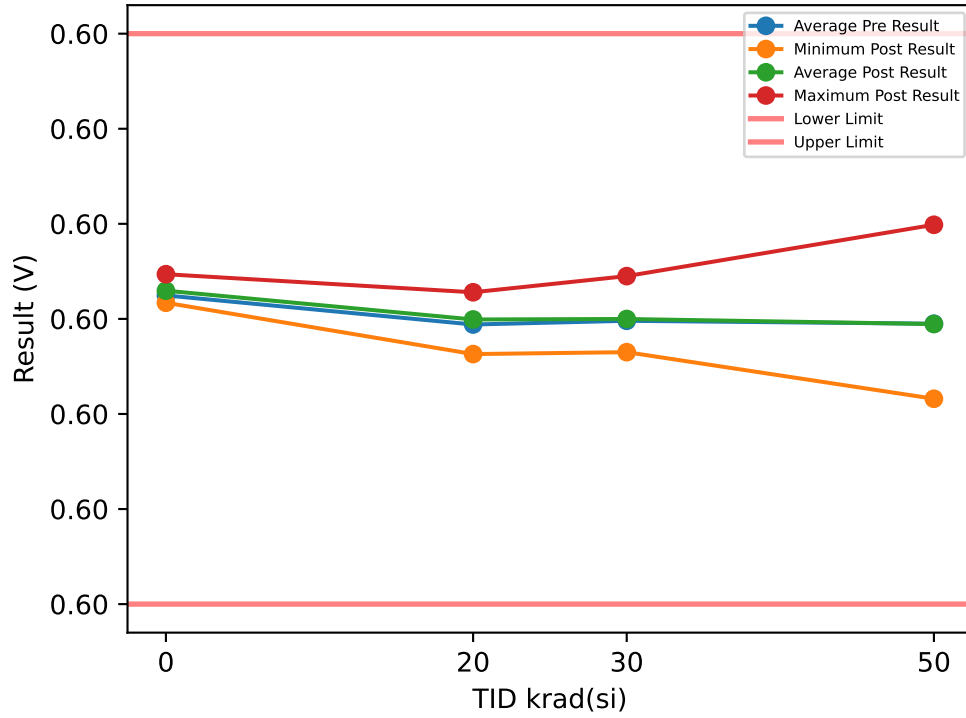


### Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	140.04	145.35	148.16	4.5996	140.01	145.56	148.79	4.826	-0.025	0.2151	0.6253	0.35696
20	141.14	148.76	153.83	3.9366	140.81	148.84	154.1	3.7204	-2.5588	0.07881	2.7816	1.4993
30	141.4	148.58	154.77	4.4609	139.9	148.64	153.53	4.1151	-4.8512	0.06454	2.8451	2.1613
50	138.97	148.2	160.88	6.1762	141.53	149.9	163.06	6.2843	-0.1331	1.6992	2.8909	1.1039

# Device Test: 19.71 VOLTAGE|VREF//5/5/0/1000/5/500kHz//@VREF\_25C

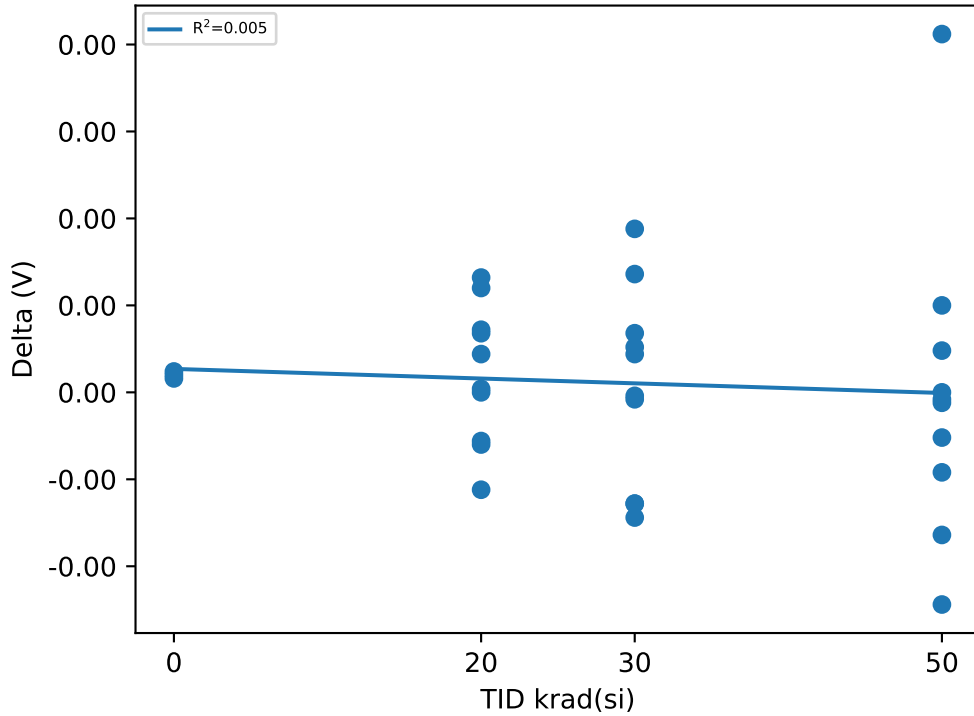
## TID vs Result Stats



## Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60031	0.60003	-0.00028
22	20	HDR BIAS	0.59968	0.60001	0.00033
23	20	HDR BIAS	0.59984	0.60001	0.00017
24	20	HDR BIAS	0.6002	0.6002	0
25	20	HDR BIAS	0.5997	0.6	0.0003
26	20	HDR UNBIAS	0.59977	0.59963	-0.00014
27	20	HDR UNBIAS	0.59972	0.59983	0.00011
28	20	HDR UNBIAS	0.60003	0.60004	1e-05
29	20	HDR UNBIAS	0.60006	0.59991	-0.00015
30	20	HDR UNBIAS	0.6001	0.60028	0.00018
31	30	HDR BIAS	0.59997	0.59965	-0.00032
32	30	HDR BIAS	0.60015	0.60028	0.00013
33	30	HDR BIAS	0.60011	0.59979	-0.00032
34	30	HDR BIAS	0.59973	0.5999	0.00017
35	30	HDR BIAS	0.59974	0.60021	0.00047
36	30	HDR UNBIAS	0.60011	0.60045	0.00034
37	30	HDR UNBIAS	0.59987	0.59985	-2e-05
38	30	HDR UNBIAS	0.60007	0.59971	-0.00036
39	30	HDR UNBIAS	0.59978	0.59989	0.00011
40	30	HDR UNBIAS	0.60027	0.60026	-1e-05
41	50	HDR BIAS	0.59989	0.59928	-0.00061
42	50	HDR BIAS	0.5999	0.60002	0.00012
43	50	HDR BIAS	0.59991	0.59989	-2e-05
44	50	HDR BIAS	0.59957	0.59916	-0.00041
45	50	HDR BIAS	0.60005	0.60002	-3e-05
46	50	HDR UNBIAS	0.59996	0.60099	0.00103
47	50	HDR UNBIAS	0.60007	0.60007	0
48	50	HDR UNBIAS	0.60014	0.59991	-0.00023
49	50	HDR UNBIAS	0.60024	0.60011	-0.00013
50	50	HDR UNBIAS	0.59976	0.60001	0.00025
71	0	CORRELATION	0.60042	0.60047	5e-05
72	0	CORRELATION	0.60021	0.60025	4e-05
73	0	CORRELATION	0.60011	0.60017	6e-05

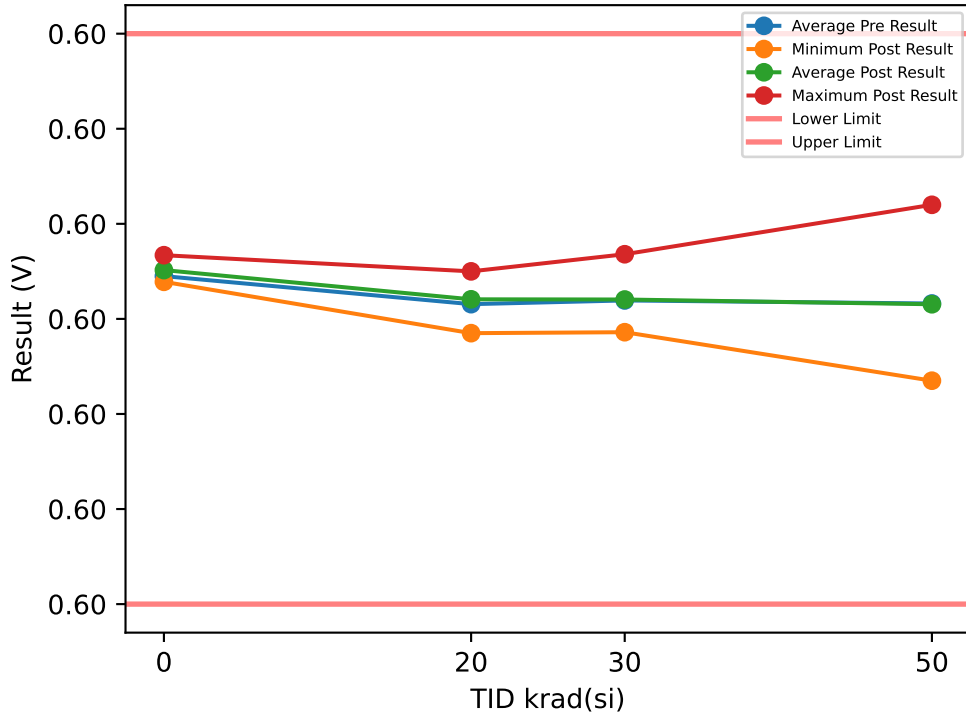
## TID vs Post - Pre Exposure Delta



## 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	0.60011	0.60025	0.60042	0.00015822	0.60017	0.6003	0.60047	0.00015535	4e-05	5e-05	6e-05	1e-05
20	0.59968	0.59994	0.60031	0.00022733	0.59963	0.59999	0.60028	0.00018094	-0.00028	5.3e-05	0.00033	0.00020133
30	0.59973	0.59998	0.60027	0.00019067	0.59965	0.6	0.60045	0.00027646	-0.00036	1.9e-05	0.00047	0.00028396
50	0.59957	0.59995	0.60024	0.00019232	0.59916	0.59995	0.60099	0.00049588	-0.00061	-3e-06	0.00103	0.00044083

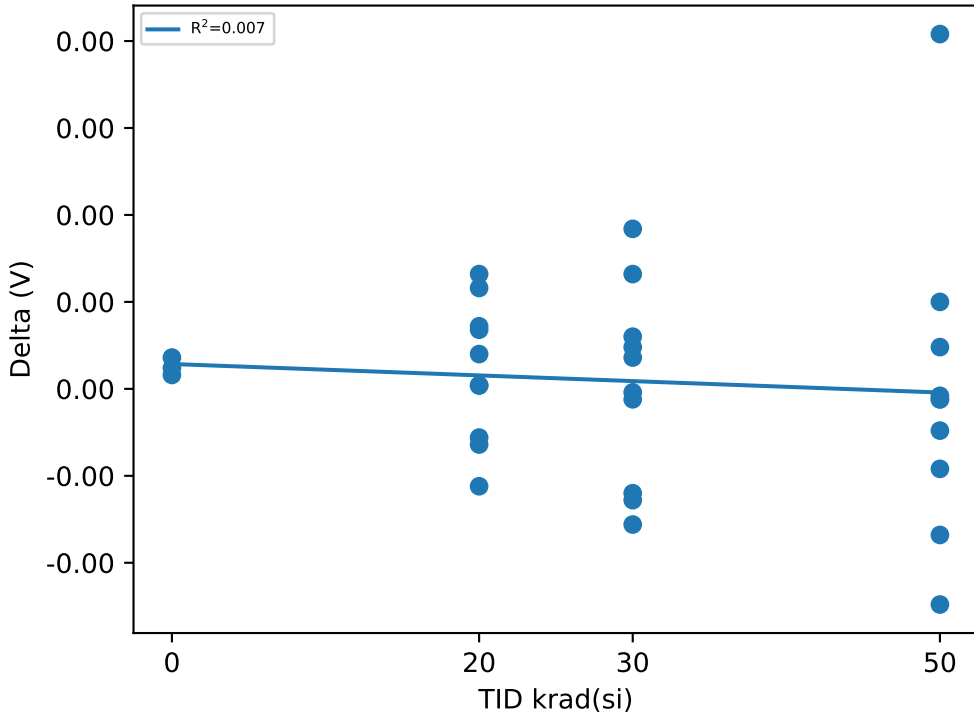
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60053	0.60025	-0.00028
22	20	HDR BIAS	0.5999	0.60023	0.00033
23	20	HDR BIAS	0.60005	0.60022	0.00017
24	20	HDR BIAS	0.6004	0.60041	1e-05
25	20	HDR BIAS	0.59992	0.60021	0.00029
26	20	HDR UNBIAS	0.59999	0.59985	-0.00014
27	20	HDR UNBIAS	0.59992	0.60002	0.0001
28	20	HDR UNBIAS	0.60024	0.60025	1e-05
29	20	HDR UNBIAS	0.60028	0.60012	-0.00016
30	20	HDR UNBIAS	0.60032	0.6005	0.00018
31	30	HDR BIAS	0.60018	0.59986	-0.00032
32	30	HDR BIAS	0.60035	0.60047	0.00012
33	30	HDR BIAS	0.60031	0.60001	-0.0003
34	30	HDR BIAS	0.59994	0.60009	0.00015
35	30	HDR BIAS	0.59993	0.60039	0.00046
36	30	HDR UNBIAS	0.60035	0.60068	0.00033
37	30	HDR UNBIAS	0.60008	0.60005	-3e-05
38	30	HDR UNBIAS	0.60032	0.59993	-0.00039
39	30	HDR UNBIAS	0.6	0.60009	9e-05
40	30	HDR UNBIAS	0.60048	0.60047	-1e-05
41	50	HDR BIAS	0.6001	0.59948	-0.00062
42	50	HDR BIAS	0.60011	0.60023	0.00012
43	50	HDR BIAS	0.60014	0.60011	-3e-05
44	50	HDR BIAS	0.59977	0.59935	-0.00042
45	50	HDR BIAS	0.60026	0.60023	-3e-05
46	50	HDR UNBIAS	0.60018	0.6012	0.00102
47	50	HDR UNBIAS	0.60031	0.60029	-2e-05
48	50	HDR UNBIAS	0.60035	0.60012	-0.00023
49	50	HDR UNBIAS	0.60043	0.60031	-0.00012
50	50	HDR UNBIAS	0.59997	0.60022	0.00025
71	0	CORRELATION	0.60061	0.60067	6e-05
72	0	CORRELATION	0.60044	0.60048	4e-05
73	0	CORRELATION	0.6003	0.60039	9e-05

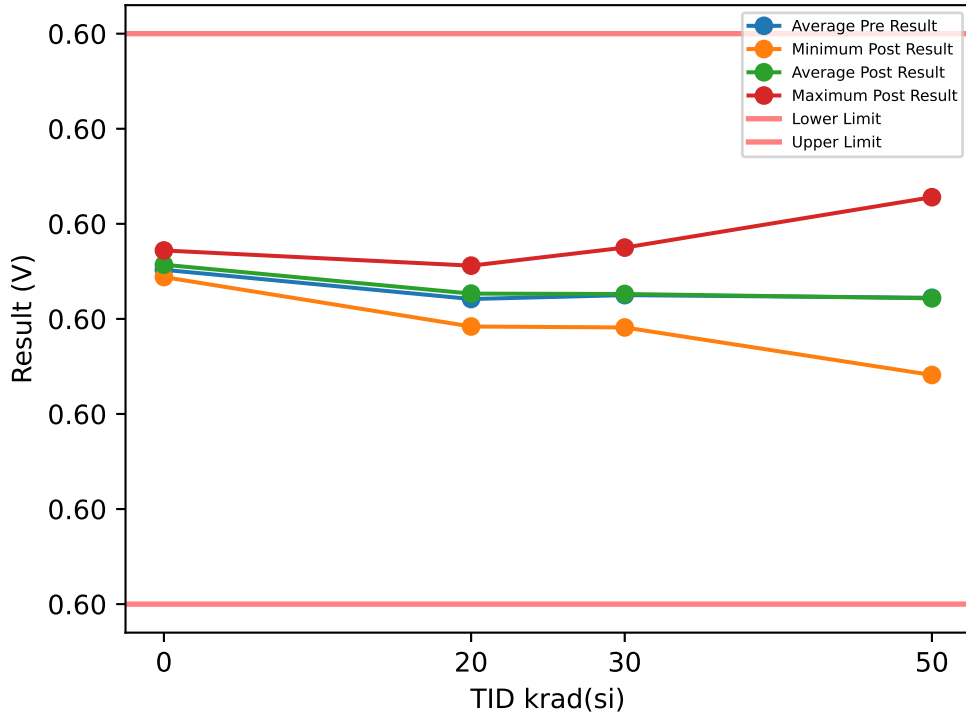
TID vs Post - Pre Exposure Delta



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	0.6003	0.60045	0.60061	0.00015524	0.60039	0.60051	0.60067	0.00014295	4e-05	6.3333e-05	9e-05	2.5166e-05
20	0.5999	0.60015	0.60053	0.00022717	0.59985	0.60021	0.6005	0.00018301	-0.00028	5.1e-05	0.00033	0.00020058
30	0.59993	0.60019	0.60048	0.00019574	0.59986	0.6002	0.60068	0.00027557	-0.00039	1e-05	0.00046	0.00028087
50	0.59977	0.60016	0.60043	0.00019338	0.59935	0.60015	0.6012	0.00050074	-0.00062	-8e-06	0.00102	0.00044058

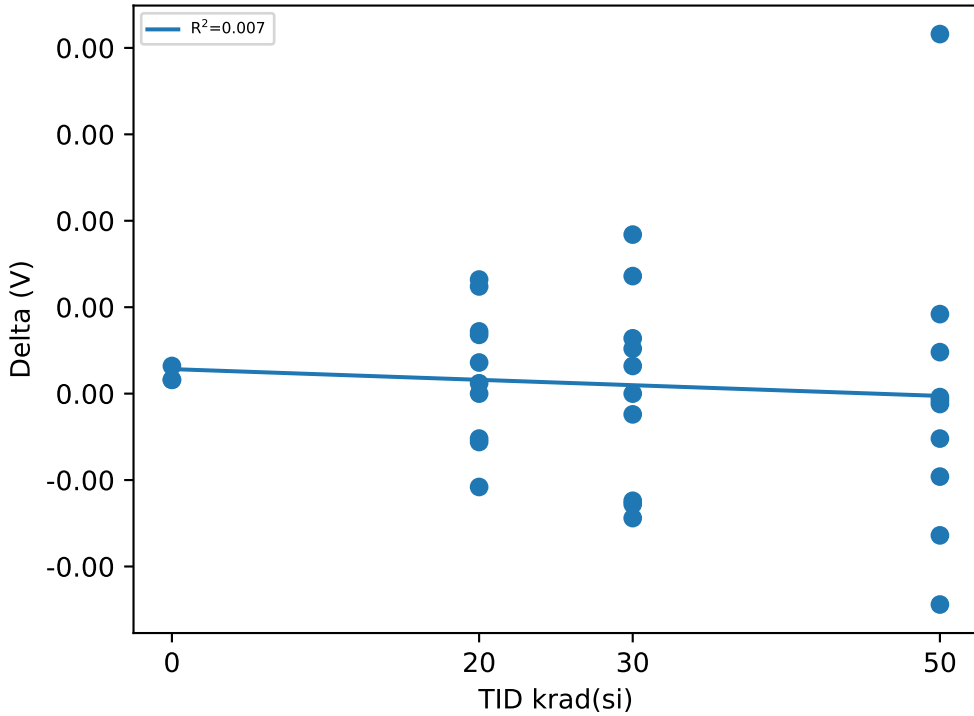
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60058	0.60031	-0.00027
22	20	HDR BIAS	0.59995	0.60028	0.00033
23	20	HDR BIAS	0.6001	0.60027	0.00017
24	20	HDR BIAS	0.60045	0.60048	3e-05
25	20	HDR BIAS	0.59997	0.60028	0.00031
26	20	HDR UNBIAS	0.60005	0.59992	-0.00013
27	20	HDR UNBIAS	0.59998	0.60007	9e-05
28	20	HDR UNBIAS	0.6003	0.6003	0
29	20	HDR UNBIAS	0.60033	0.60019	-0.00014
30	20	HDR UNBIAS	0.60038	0.60056	0.00018
31	30	HDR BIAS	0.60023	0.59991	-0.00032
32	30	HDR BIAS	0.60041	0.60054	0.00013
33	30	HDR BIAS	0.60037	0.60006	-0.00031
34	30	HDR BIAS	0.59999	0.60015	0.00016
35	30	HDR BIAS	0.59998	0.60044	0.00046
36	30	HDR UNBIAS	0.60041	0.60075	0.00034
37	30	HDR UNBIAS	0.60016	0.6001	-6e-05
38	30	HDR UNBIAS	0.60036	0.6	-0.00036
39	30	HDR UNBIAS	0.60006	0.60014	8e-05
40	30	HDR UNBIAS	0.60053	0.60053	0
41	50	HDR BIAS	0.60015	0.59954	-0.00061
42	50	HDR BIAS	0.60017	0.60029	0.00012
43	50	HDR BIAS	0.60022	0.60019	-3e-05
44	50	HDR BIAS	0.59982	0.59941	-0.00041
45	50	HDR BIAS	0.60032	0.6003	-2e-05
46	50	HDR UNBIAS	0.60024	0.60128	0.00104
47	50	HDR UNBIAS	0.60036	0.60035	-1e-05
48	50	HDR UNBIAS	0.60042	0.60018	-0.00024
49	50	HDR UNBIAS	0.60049	0.60036	-0.00013
50	50	HDR UNBIAS	0.60003	0.60026	0.00023
71	0	CORRELATION	0.60068	0.60072	4e-05
72	0	CORRELATION	0.60051	0.60055	4e-05
73	0	CORRELATION	0.60036	0.60044	8e-05

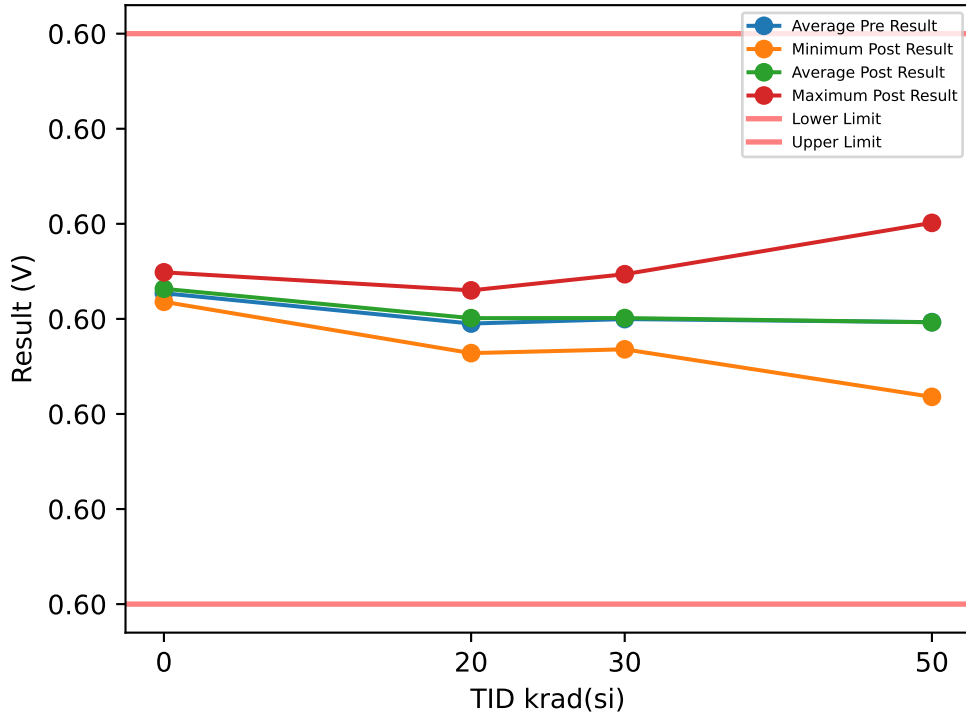
TID vs Post - Pre Exposure Delta



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	0.60036	0.60052	0.60068	0.0001601	0.60044	0.60057	0.60072	0.00014107	4e-05	5.3333e-05	8e-05	2.3094e-05
20	0.59995	0.60021	0.60058	0.00022649	0.59992	0.60027	0.60056	0.00018246	-0.00027	5.7e-05	0.00033	0.00019782
30	0.59998	0.60025	0.60053	0.00019471	0.59991	0.60026	0.60075	0.00028007	-0.00036	1.2e-05	0.00046	0.00028015
50	0.59982	0.60022	0.60049	0.00019617	0.59941	0.60022	0.60128	0.00050485	-0.00061	-6e-06	0.00104	0.0004428

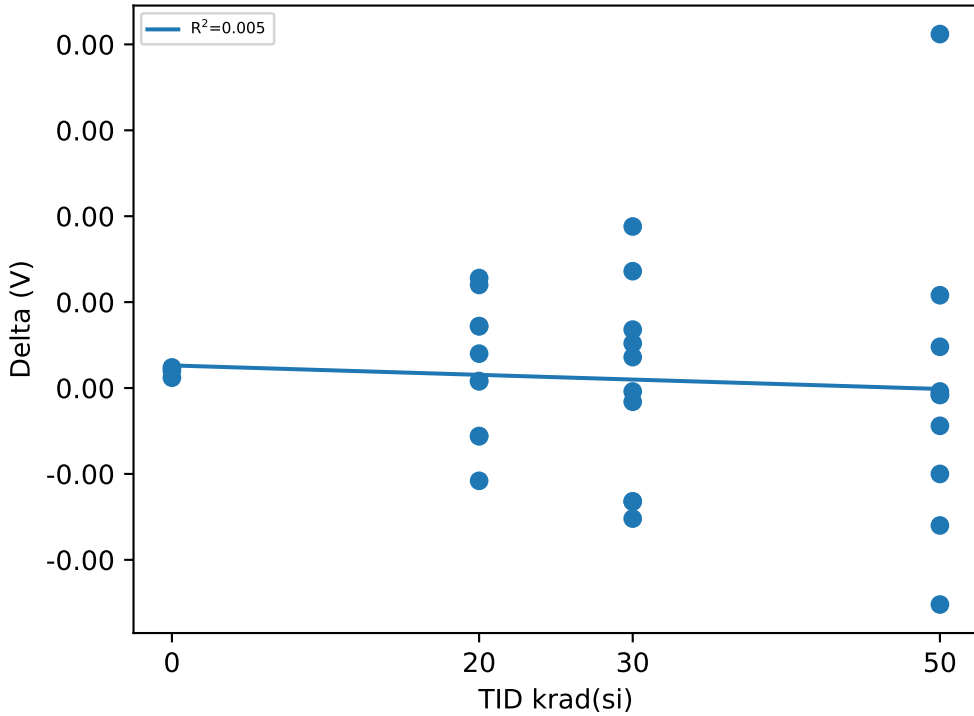
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60032	0.60005	-0.00027
22	20	HDR BIAS	0.5997	0.60002	0.00032
23	20	HDR BIAS	0.59984	0.60002	0.00018
24	20	HDR BIAS	0.60019	0.60021	2e-05
25	20	HDR BIAS	0.59971	0.60001	0.0003
26	20	HDR UNBIAS	0.59978	0.59964	-0.00014
27	20	HDR UNBIAS	0.59973	0.59983	0.0001
28	20	HDR UNBIAS	0.60004	0.60006	2e-05
29	20	HDR UNBIAS	0.60008	0.59994	-0.00014
30	20	HDR UNBIAS	0.60012	0.6003	0.00018
31	30	HDR BIAS	0.60001	0.59968	-0.00033
32	30	HDR BIAS	0.60015	0.60028	0.00013
33	30	HDR BIAS	0.60012	0.59979	-0.00033
34	30	HDR BIAS	0.59975	0.59992	0.00017
35	30	HDR BIAS	0.59974	0.60021	0.00047
36	30	HDR UNBIAS	0.60013	0.60047	0.00034
37	30	HDR UNBIAS	0.59989	0.59985	-4e-05
38	30	HDR UNBIAS	0.60009	0.59971	-0.00038
39	30	HDR UNBIAS	0.59981	0.5999	9e-05
40	30	HDR UNBIAS	0.60029	0.60028	-1e-05
41	50	HDR BIAS	0.5999	0.59927	-0.00063
42	50	HDR BIAS	0.59991	0.60003	0.00012
43	50	HDR BIAS	0.59994	0.59992	-2e-05
44	50	HDR BIAS	0.59958	0.59918	-0.0004
45	50	HDR BIAS	0.60006	0.60004	-2e-05
46	50	HDR UNBIAS	0.59998	0.60101	0.00103
47	50	HDR UNBIAS	0.6001	0.60009	-1e-05
48	50	HDR UNBIAS	0.60017	0.59992	-0.00025
49	50	HDR UNBIAS	0.60023	0.60012	-0.00011
50	50	HDR UNBIAS	0.59979	0.60006	0.00027
71	0	CORRELATION	0.60044	0.60049	5e-05
72	0	CORRELATION	0.60025	0.60028	3e-05
73	0	CORRELATION	0.60012	0.60018	6e-05

TID vs Post - Pre Exposure Delta



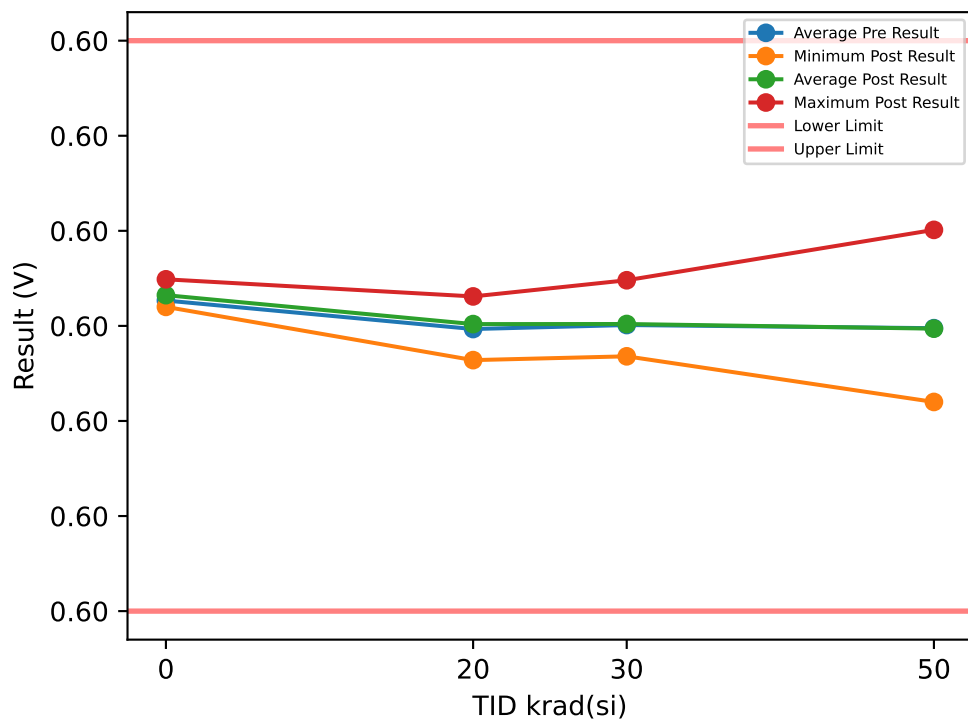
Test Statistics (V)

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	0.60012	0.60027	0.60044	0.00016093	0.60018	0.60032	0.60049	0.00015822	3e-05	4.6667e-05	6e-05	1.5275e-05
20	0.5997	0.59995	0.60032	0.00022556	0.59964	0.60001	0.6003	0.00018335	-0.00027	5.7e-05	0.00032	0.00019653
30	0.59974	0.6	0.60029	0.00018984	0.59968	0.60001	0.60047	0.00027699	-0.00038	1.1e-05	0.00047	0.00028927
50	0.59958	0.59997	0.60023	0.00019045	0.59918	0.59996	0.60101	0.00050043	-0.00063	-2e-06	0.00103	0.00044479



# Device Test: 19.79 VOLTAGE|VREF//5/5/0/1000/5/1MHz//@VREF\_25C

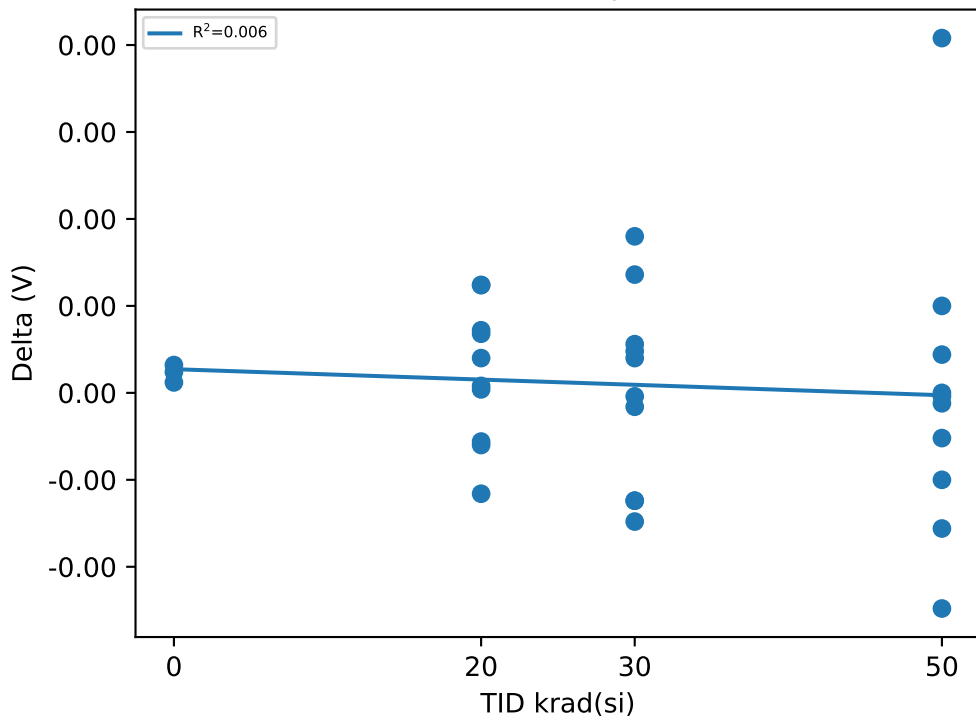
### TID vs Result Stats



### Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60034	0.60005	-0.00029
22	20	HDR BIAS	0.59972	0.60003	0.00031
23	20	HDR BIAS	0.59987	0.60004	0.00017
24	20	HDR BIAS	0.60022	0.60023	1e-05
25	20	HDR BIAS	0.59972	0.60003	0.00031
26	20	HDR UNBIAS	0.59978	0.59964	-0.00014
27	20	HDR UNBIAS	0.59975	0.59985	0.0001
28	20	HDR UNBIAS	0.60005	0.60007	2e-05
29	20	HDR UNBIAS	0.60009	0.59994	-0.00015
30	20	HDR UNBIAS	0.60013	0.60031	0.00018
31	30	HDR BIAS	0.59999	0.59968	-0.00031
32	30	HDR BIAS	0.60018	0.6003	0.00012
33	30	HDR BIAS	0.60013	0.59982	-0.00031
34	30	HDR BIAS	0.59978	0.59992	0.00014
35	30	HDR BIAS	0.59977	0.60022	0.00045
36	30	HDR UNBIAS	0.60014	0.60048	0.00034
37	30	HDR UNBIAS	0.5999	0.59986	-4e-05
38	30	HDR UNBIAS	0.6001	0.59973	-0.00037
39	30	HDR UNBIAS	0.59981	0.59991	0.0001
40	30	HDR UNBIAS	0.60029	0.60028	-1e-05
41	50	HDR BIAS	0.59991	0.59929	-0.00062
42	50	HDR BIAS	0.59993	0.60004	0.00011
43	50	HDR BIAS	0.59993	0.59993	0
44	50	HDR BIAS	0.59959	0.5992	-0.00039
45	50	HDR BIAS	0.60008	0.60005	-3e-05
46	50	HDR UNBIAS	0.59999	0.60101	0.00102
47	50	HDR UNBIAS	0.6001	0.60009	-1e-05
48	50	HDR UNBIAS	0.60018	0.59993	-0.00025
49	50	HDR UNBIAS	0.60026	0.60013	-0.00013
50	50	HDR UNBIAS	0.59979	0.60004	0.00025
71	0	CORRELATION	0.60043	0.60049	6e-05
72	0	CORRELATION	0.60025	0.60028	3e-05
73	0	CORRELATION	0.60012	0.6002	8e-05

### TID vs Post - Pre Exposure Delta

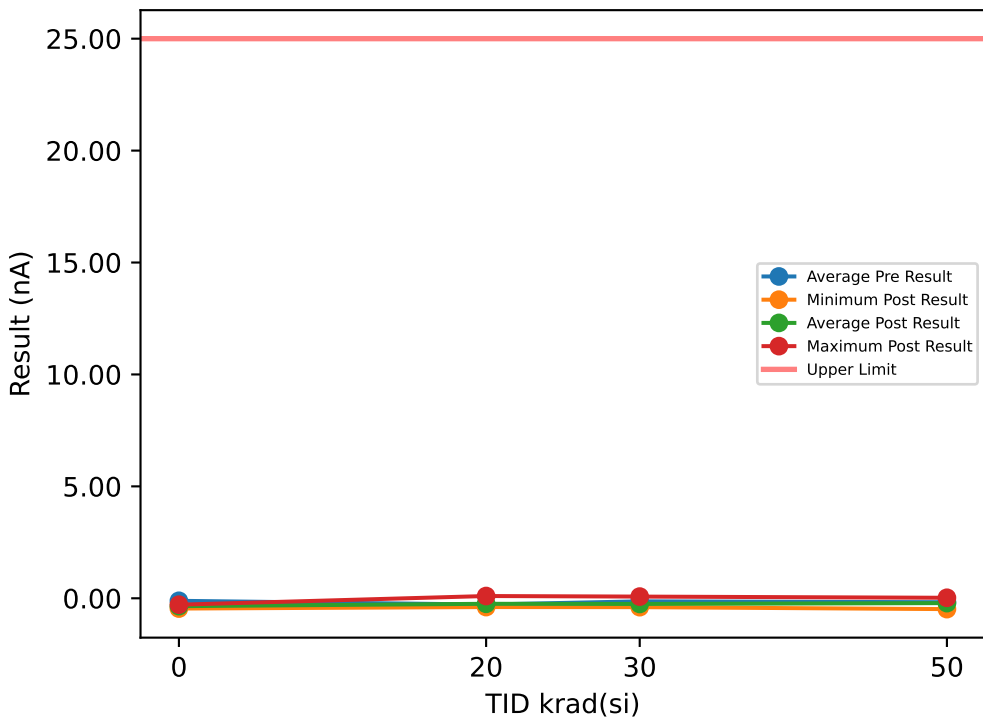


### Test Statistics (V)

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	0.60012	0.60027	0.60043	0.00015567	0.6002	0.60032	0.60049	0.00014978	3e-05	5.6667e-05	8e-05	2.5166e-05
20	0.59972	0.59997	0.60034	0.00022735	0.59964	0.60002	0.60031	0.00018616	-0.00029	5.2e-05	0.00031	0.00020088
30	0.59977	0.60001	0.60029	0.0001855	0.59968	0.60002	0.60048	0.00027588	-0.00037	1.1e-05	0.00045	0.00027723
50	0.59959	0.59998	0.60026	0.00019461	0.5992	0.59997	0.60101	0.000494	-0.00062	-5e-06	0.00102	0.00043864



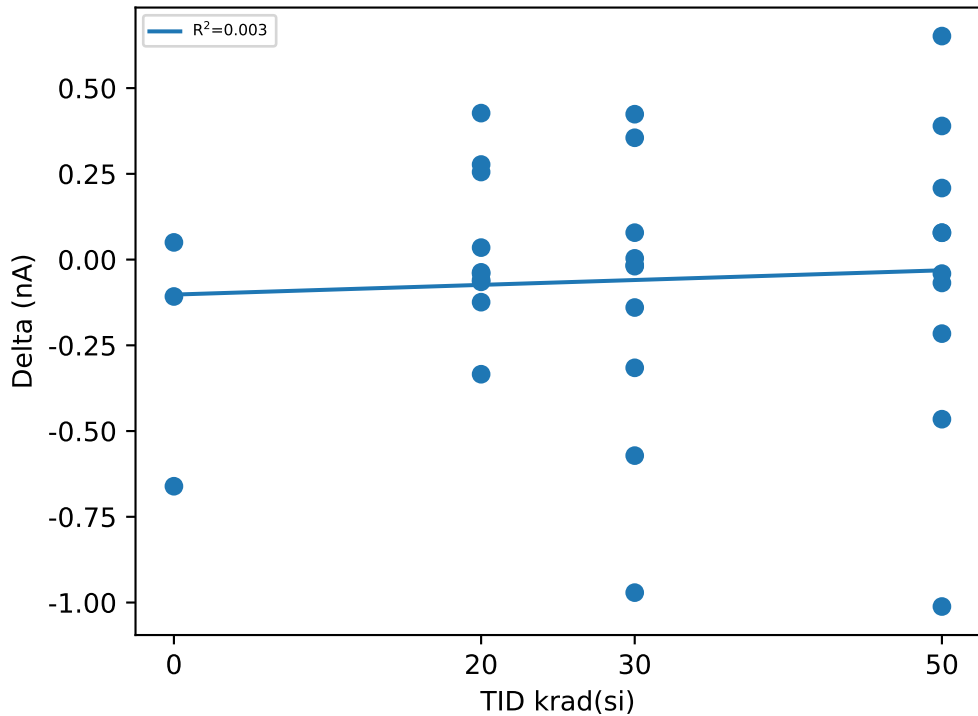
TID vs Result Stats



Test Results (Upper Limit = 25.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.252	-0.3762	-0.1242
22	20	HDR BIAS	-0.2275	-0.2871	-0.0596
23	20	HDR BIAS	-0.4727	-0.2174	0.2553
24	20	HDR BIAS	-0.227	-0.2642	-0.0372
25	20	HDR BIAS	0.2064	-0.1279	-0.3343
26	20	HDR UNBIAS	-0.3261	0.101	0.4271
27	20	HDR UNBIAS	-0.408	-0.3731	0.0349
28	20	HDR UNBIAS	-0.2961	-0.337	-0.0409
29	20	HDR UNBIAS	-0.4634	-0.1862	0.2772
30	20	HDR UNBIAS	-0.3269	-0.3918	-0.0649
31	30	HDR BIAS	-0.293	-0.3089	-0.0159
32	30	HDR BIAS	-0.5445	-0.1893	0.3552
33	30	HDR BIAS	-0.408	-0.3295	0.0785
34	30	HDR BIAS	0.144	-0.1716	-0.3156
35	30	HDR BIAS	-0.3479	0.076	0.4239
36	30	HDR UNBIAS	-0.252	-0.3918	-0.1398
37	30	HDR UNBIAS	0.5748	-0.3963	-0.9711
38	30	HDR UNBIAS	-0.3043	-0.3235	-0.0192
39	30	HDR UNBIAS	-0.3612	-0.3576	0.0036
40	30	HDR UNBIAS	0.4343	-0.1373	-0.5716
41	50	HDR BIAS	-0.22	-0.0114	0.2086
42	50	HDR BIAS	-0.3019	-0.37	-0.0681
43	50	HDR BIAS	-0.1213	-0.1622	-0.0409
44	50	HDR BIAS	-0.6288	0.0229	0.6517
45	50	HDR BIAS	-0.4205	-0.342	0.0785
46	50	HDR UNBIAS	0.3157	-0.1497	-0.4654
47	50	HDR UNBIAS	-0.3729	0.0167	0.3896
48	50	HDR UNBIAS	-0.3206	-0.2424	0.0782
49	50	HDR UNBIAS	0.5279	-0.4837	-1.0116
50	50	HDR UNBIAS	-0.2169	-0.4328	-0.2159
71	0	CORRELATION	-0.3511	-0.4587	-0.1076
72	0	CORRELATION	-0.3362	-0.2861	0.0501
73	0	CORRELATION	0.35	-0.3109	-0.6609

TID vs Post - Pre Exposure Delta

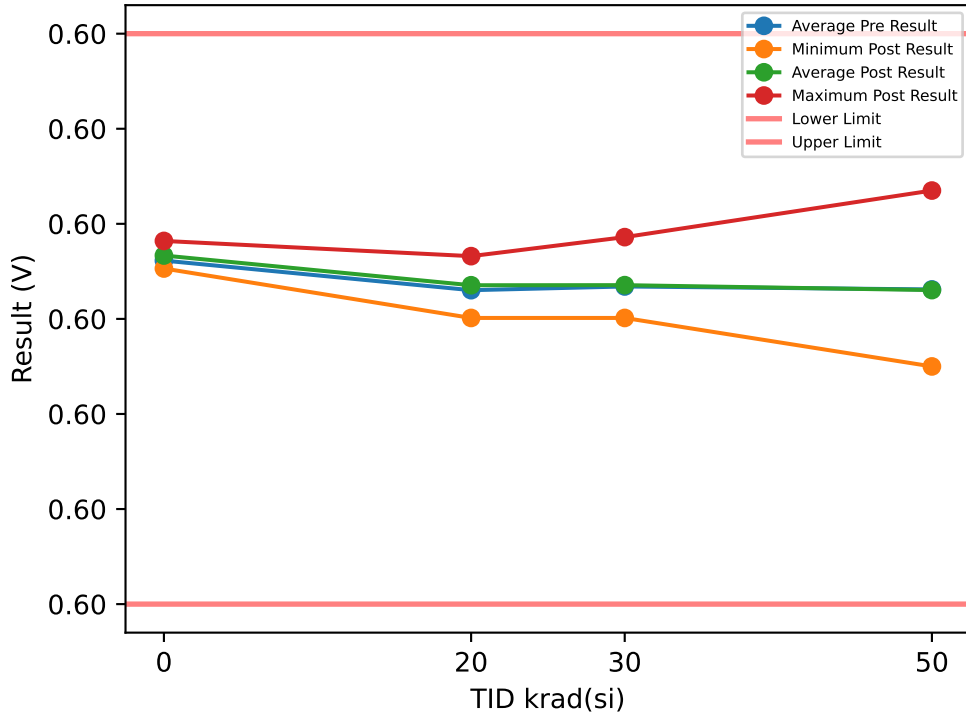


Test Statistics (nA)

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	-0.3511	-0.11243	0.35	0.40055	-0.4587	-0.3519	-0.2861	0.093319	-0.6609	-0.23947	0.0501	0.37339
20	-0.4727	-0.27933	0.2064	0.19283	-0.3918	-0.24599	0.101	0.15034	-0.3343	0.03334	0.4271	0.22424
30	-0.5445	-0.13578	0.5748	0.38178	-0.3963	-0.25298	0.076	0.14795	-0.9711	-0.1172	0.4239	0.41689
50	-0.6288	-0.17593	0.5279	0.34708	-0.4837	-0.21546	0.0229	0.18836	-1.0116	-0.03953	0.6517	0.46062

# Device Test: 19.81 VOLTAGE|VREF//12/12/0/1000/5/1MHz//@VREF\_25C

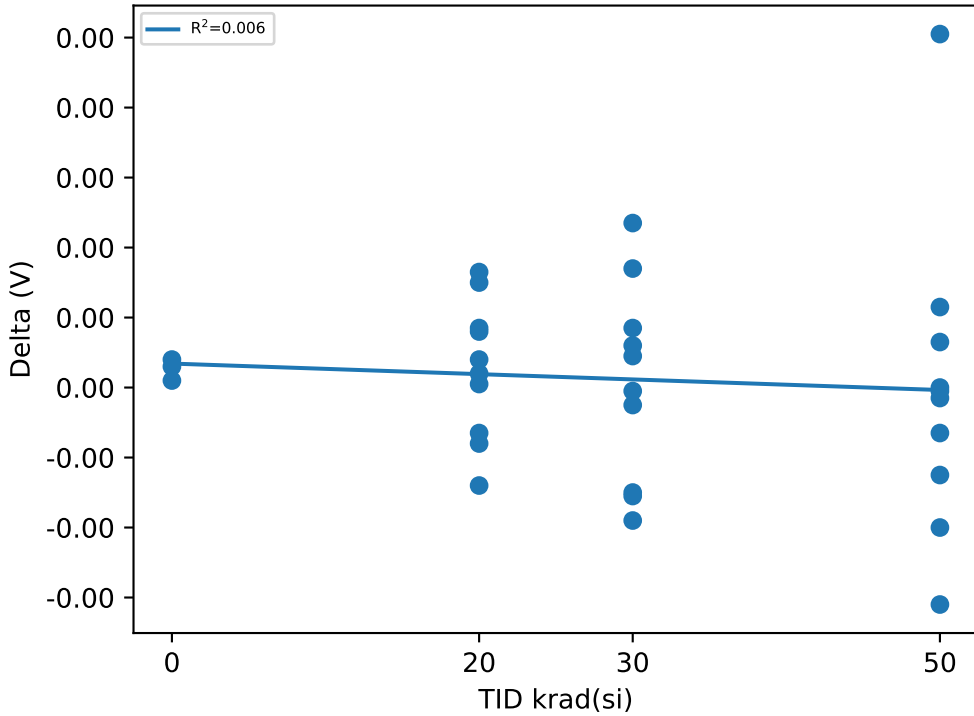
### TID vs Result Stats



### Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60069	0.60041	-0.00028
22	20	HDR BIAS	0.60005	0.60038	0.00033
23	20	HDR BIAS	0.60018	0.60034	0.00016
24	20	HDR BIAS	0.60054	0.60058	4e-05
25	20	HDR BIAS	0.60006	0.60036	0.0003
26	20	HDR UNBIAS	0.60014	0.60001	-0.00013
27	20	HDR UNBIAS	0.60007	0.60015	8e-05
28	20	HDR UNBIAS	0.60038	0.60039	1e-05
29	20	HDR UNBIAS	0.60042	0.60026	-0.00016
30	20	HDR UNBIAS	0.60049	0.60066	0.00017
31	30	HDR BIAS	0.60031	0.60001	-0.0003
32	30	HDR BIAS	0.6005	0.60062	0.00012
33	30	HDR BIAS	0.60046	0.60015	-0.00031
34	30	HDR BIAS	0.60006	0.60023	0.00017
35	30	HDR BIAS	0.60006	0.60053	0.00047
36	30	HDR UNBIAS	0.60052	0.60086	0.00034
37	30	HDR UNBIAS	0.60024	0.60019	-5e-05
38	30	HDR UNBIAS	0.60048	0.6001	-0.00038
39	30	HDR UNBIAS	0.60014	0.60023	9e-05
40	30	HDR UNBIAS	0.60064	0.60063	-1e-05
41	50	HDR BIAS	0.60024	0.59962	-0.00062
42	50	HDR BIAS	0.60026	0.60039	0.00013
43	50	HDR BIAS	0.60031	0.60031	0
44	50	HDR BIAS	0.5999	0.5995	-0.0004
45	50	HDR BIAS	0.60041	0.60038	-3e-05
46	50	HDR UNBIAS	0.60034	0.60135	0.00101
47	50	HDR UNBIAS	0.60045	0.60044	-1e-05
48	50	HDR UNBIAS	0.6005	0.60025	-0.00025
49	50	HDR UNBIAS	0.60057	0.60044	-0.00013
50	50	HDR UNBIAS	0.60012	0.60035	0.00023
71	0	CORRELATION	0.60076	0.60082	6e-05
72	0	CORRELATION	0.60063	0.60065	2e-05
73	0	CORRELATION	0.60045	0.60053	8e-05

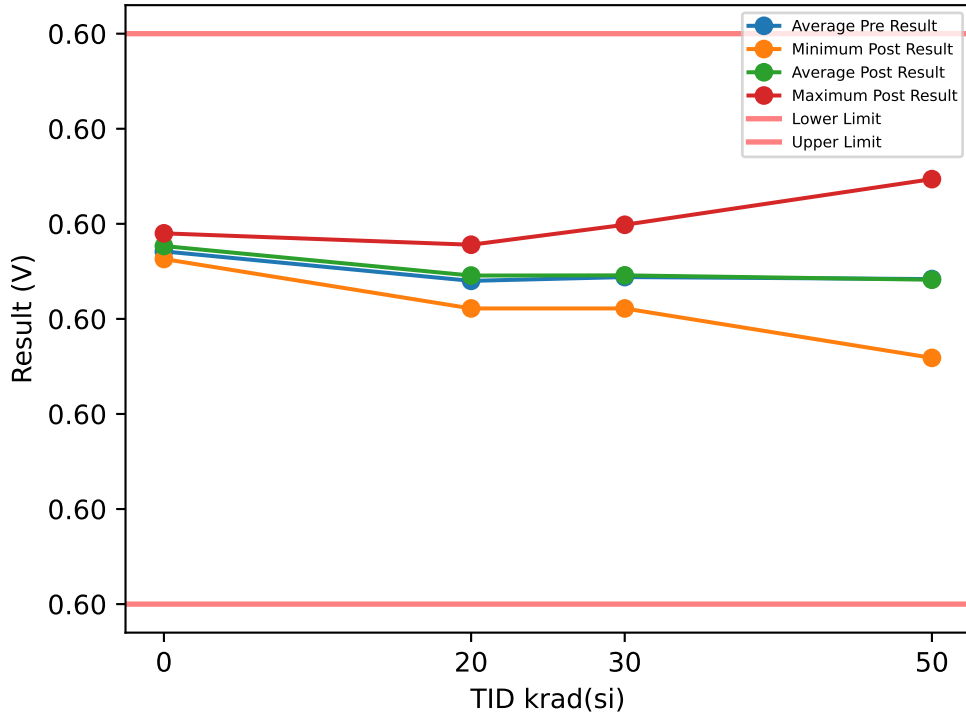
### TID vs Post - Pre Exposure Delta



### 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	0.60045	0.60061	0.60076	0.00015567	0.60053	0.60067	0.60082	0.00014572	2e-05	5.3333e-05	8e-05	3.0551e-05
20	0.60005	0.6003	0.60069	0.00023083	0.60001	0.60035	0.60066	0.00018822	-0.00028	5.2e-05	0.00033	0.00019871
30	0.60006	0.60034	0.60064	0.00020808	0.60001	0.60035	0.60086	0.00028207	-0.00038	1.4e-05	0.00047	0.00028265
50	0.5999	0.60031	0.60057	0.00019602	0.5995	0.6003	0.60135	0.00050151	-0.00062	-7e-06	0.00101	0.00043643

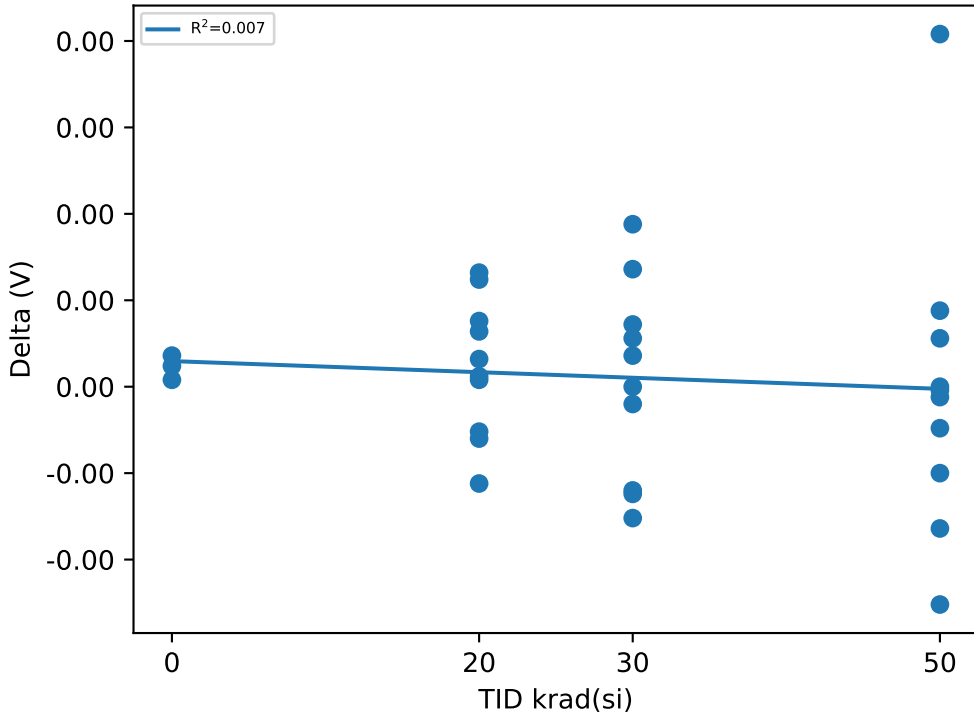
TID vs Result Stats



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60079	0.60051	-0.00028
22	20	HDR BIAS	0.60014	0.60047	0.00033
23	20	HDR BIAS	0.60028	0.60044	0.00016
24	20	HDR BIAS	0.60065	0.60068	3e-05
25	20	HDR BIAS	0.60016	0.60047	0.00031
26	20	HDR UNBIAS	0.60024	0.60011	-0.00013
27	20	HDR UNBIAS	0.60016	0.60024	8e-05
28	20	HDR UNBIAS	0.60048	0.6005	2e-05
29	20	HDR UNBIAS	0.60051	0.60036	-0.00015
30	20	HDR UNBIAS	0.60059	0.60078	0.00019
31	30	HDR BIAS	0.60041	0.60011	-0.0003
32	30	HDR BIAS	0.60059	0.60073	0.00014
33	30	HDR BIAS	0.60057	0.60026	-0.00031
34	30	HDR BIAS	0.60015	0.60033	0.00018
35	30	HDR BIAS	0.60015	0.60062	0.00047
36	30	HDR UNBIAS	0.60065	0.60099	0.00034
37	30	HDR UNBIAS	0.60034	0.60029	-5e-05
38	30	HDR UNBIAS	0.60057	0.60019	-0.00038
39	30	HDR UNBIAS	0.60023	0.60032	9e-05
40	30	HDR UNBIAS	0.60074	0.60074	0
41	50	HDR BIAS	0.60035	0.59972	-0.00063
42	50	HDR BIAS	0.60036	0.6005	0.00014
43	50	HDR BIAS	0.60045	0.60045	0
44	50	HDR BIAS	0.6	0.59959	-0.00041
45	50	HDR BIAS	0.6005	0.60049	-1e-05
46	50	HDR UNBIAS	0.60045	0.60147	0.00102
47	50	HDR UNBIAS	0.60058	0.60055	-3e-05
48	50	HDR UNBIAS	0.60061	0.60036	-0.00025
49	50	HDR UNBIAS	0.60066	0.60054	-0.00012
50	50	HDR UNBIAS	0.60023	0.60045	0.00022
71	0	CORRELATION	0.60084	0.6009	6e-05
72	0	CORRELATION	0.60075	0.60077	2e-05
73	0	CORRELATION	0.60054	0.60063	9e-05

TID vs Post - Pre Exposure Delta

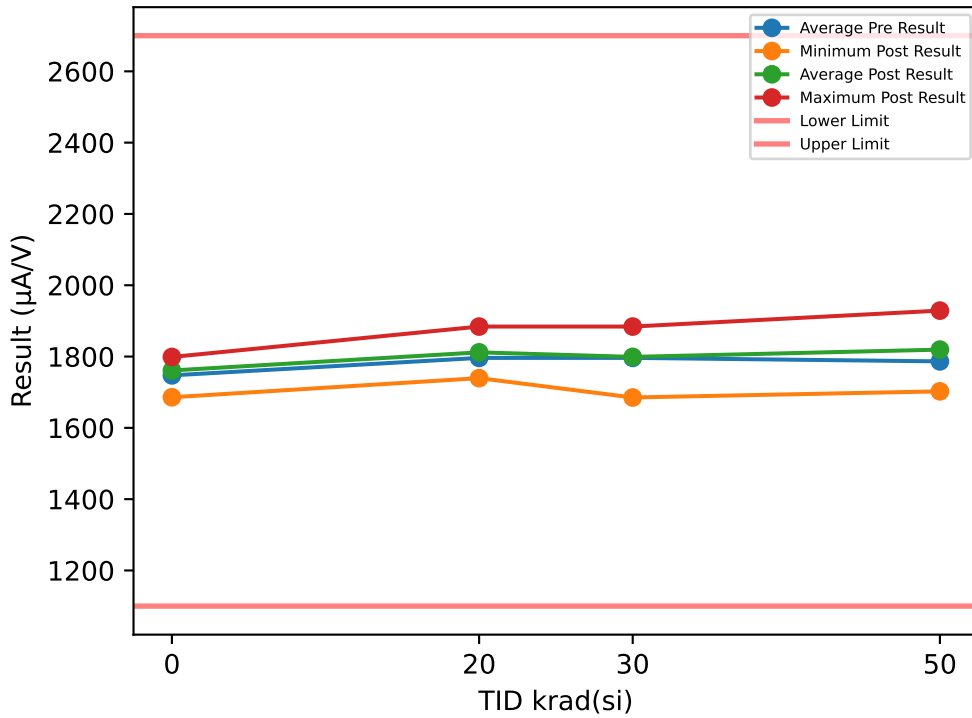


Test Statistics (V)

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	0.60054	0.60071	0.60084	0.00015395	0.60063	0.60077	0.6009	0.00013503	2e-05	5.6667e-05	9e-05	3.5119e-05
20	0.60014	0.6004	0.60079	0.00023381	0.60011	0.60046	0.60078	0.00019329	-0.00028	5.6e-05	0.00033	0.00020023
30	0.60015	0.60044	0.60074	0.00021437	0.60011	0.60046	0.60099	0.00029032	-0.00038	1.8e-05	0.00047	0.00028409
50	0.6	0.60042	0.60066	0.00019678	0.59959	0.60041	0.60147	0.00050868	-0.00063	-7e-06	0.00102	0.00044106

# Device Test: 19.9 LEVEL|TRANSCONDUCTANCE//12/12/0/0/5/500kHz//@EA\_GM

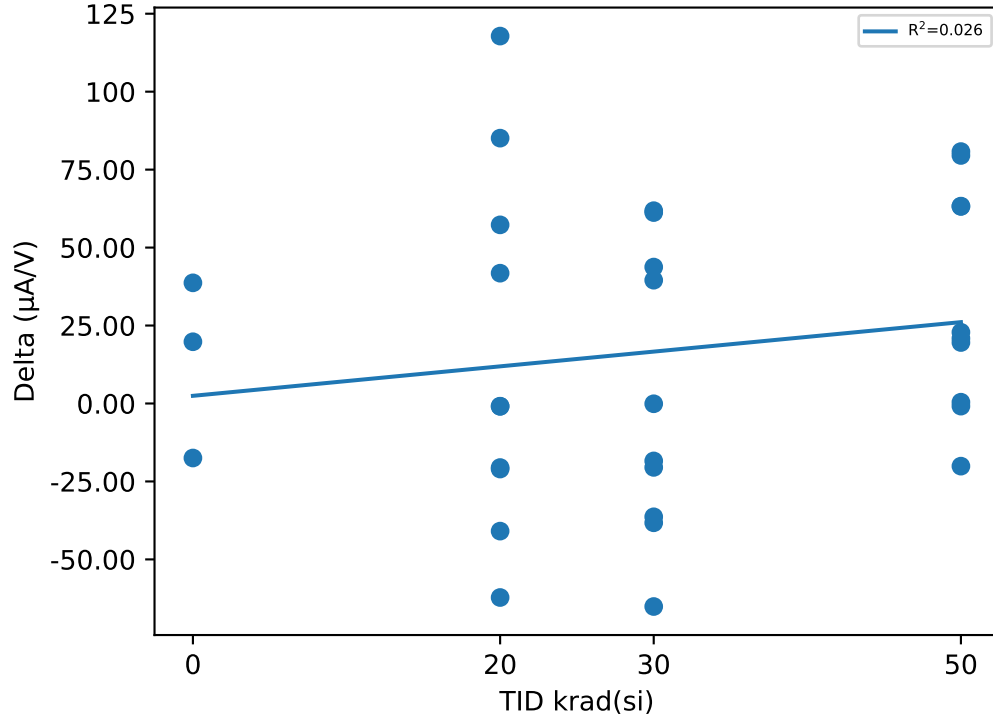
### TID vs Result Stats



### Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1721.6	1839.4	117.83
22	20	HDR BIAS	1721.5	1778.8	57.287
23	20	HDR BIAS	1799	1884.1	85.097
24	20	HDR BIAS	1840.3	1778.1	-62.219
25	20	HDR BIAS	1840.3	1819.3	-21.023
26	20	HDR UNBIAS	1840.4	1799.4	-40.928
27	20	HDR UNBIAS	1840.3	1839.4	-0.908
28	20	HDR UNBIAS	1819.4	1798.8	-20.541
29	20	HDR UNBIAS	1799	1840.8	41.787
30	20	HDR UNBIAS	1740.3	1739.4	-0.8661
31	30	HDR BIAS	1819.4	1819.3	-0.0888
32	30	HDR BIAS	1840.4	1819.9	-20.492
33	30	HDR BIAS	1799	1860.8	61.833
34	30	HDR BIAS	1778.9	1840.2	61.228
35	30	HDR BIAS	1840.4	1884.1	43.753
36	30	HDR UNBIAS	1779	1818.5	39.539
37	30	HDR UNBIAS	1721.6	1703.1	-18.42
38	30	HDR UNBIAS	1779	1740.8	-38.256
39	30	HDR UNBIAS	1883.6	1818.5	-65.109
40	30	HDR UNBIAS	1721.5	1685.2	-36.34
41	50	HDR BIAS	1740.3	1740.8	0.4153
42	50	HDR BIAS	1819.4	1882.7	63.292
43	50	HDR BIAS	1798.9	1778.8	-20.094
44	50	HDR BIAS	1740.3	1819.9	79.543
45	50	HDR BIAS	1799	1818.5	19.558
46	50	HDR UNBIAS	1759.4	1840.2	80.789
47	50	HDR UNBIAS	1799	1819.9	20.871
48	50	HDR UNBIAS	1703.3	1702.4	-0.8469
49	50	HDR UNBIAS	1906	1928.8	22.844
50	50	HDR UNBIAS	1799	1862.2	63.2
71	0	CORRELATION	1779	1798.8	19.799
72	0	CORRELATION	1703.3	1685.8	-17.483
73	0	CORRELATION	1759.4	1798.1	38.692

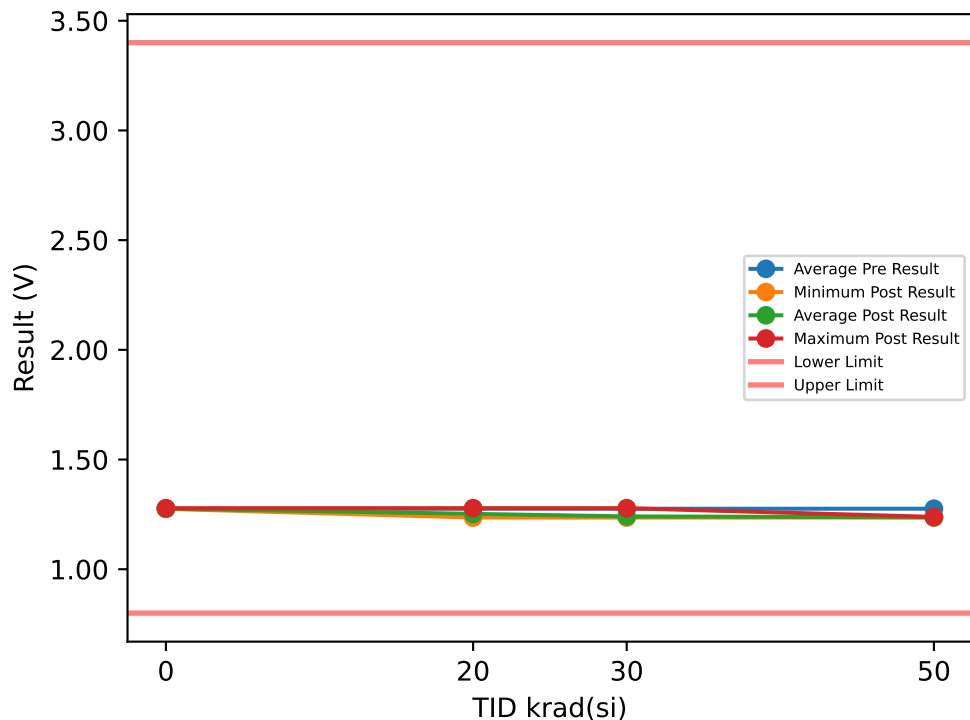
### TID vs Post - Pre Exposure Delta



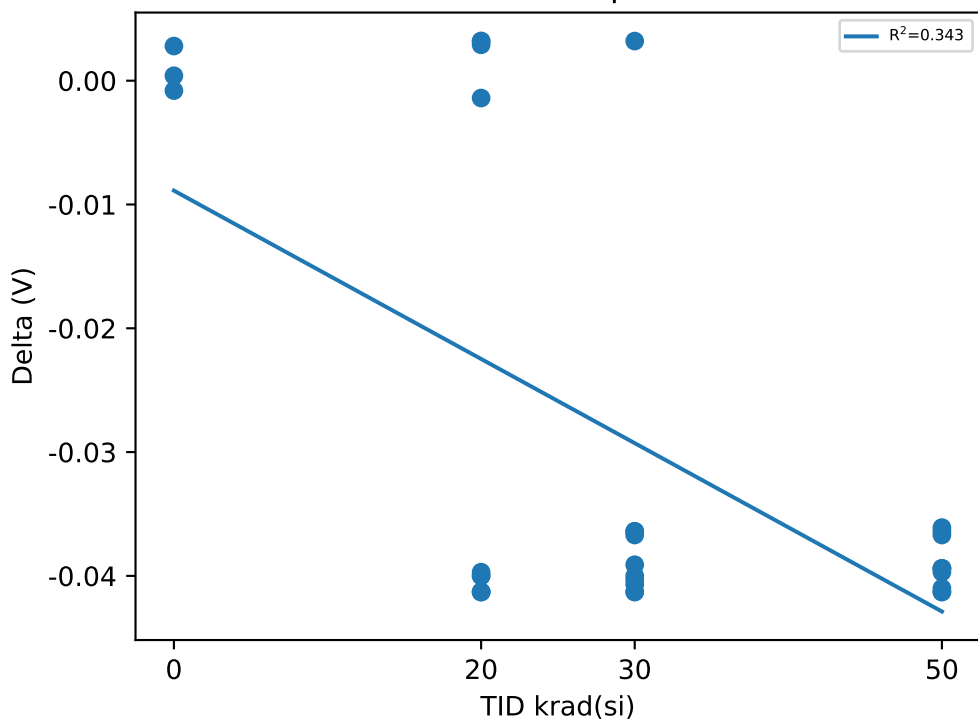
### Test Statistics (µA/V)

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	1703.3	1747.2	1779	39.306	1685.8	1760.9	1798.8	65.04	-17.483	13.67	38.692	28.585
20	1721.5	1796.2	1840.4	50.115	1739.4	1811.8	1884.1	41.407	-62.219	15.551	117.83	57.875
30	1721.5	1796.3	1883.6	51.772	1685.2	1799	1884.1	66.58	-65.109	2.7648	61.833	45.651
50	1703.3	1786.5	1906	55.685	1702.4	1819.4	1928.8	66.467	-20.094	32.957	80.789	36.112

TID vs Result Stats



TID vs Post - Pre Exposure Delta



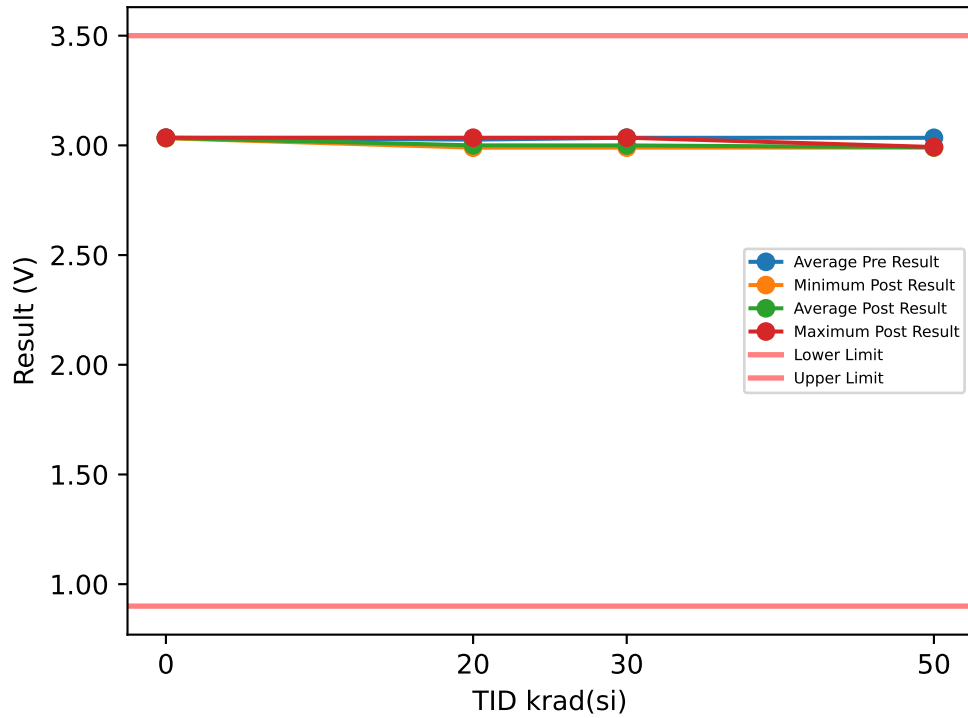
Test Results (Lower Limit = 0.8, Upper Limit = 3.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2765	1.2751	-0.0014
22	20	HDR BIAS	1.275	1.2782	0.0032
23	20	HDR BIAS	1.276	1.236	-0.04
24	20	HDR BIAS	1.2768	1.2355	-0.0413
25	20	HDR BIAS	1.275	1.2782	0.0032
26	20	HDR UNBIAS	1.2757	1.2357	-0.04
27	20	HDR UNBIAS	1.2768	1.2355	-0.0413
28	20	HDR UNBIAS	1.275	1.2779	0.0029
29	20	HDR UNBIAS	1.2757	1.236	-0.0397
30	20	HDR UNBIAS	1.2768	1.2355	-0.0413
31	30	HDR BIAS	1.2753	1.2386	-0.0367
32	30	HDR BIAS	1.276	1.236	-0.04
33	30	HDR BIAS	1.2768	1.2355	-0.0413
34	30	HDR BIAS	1.275	1.2782	0.0032
35	30	HDR BIAS	1.276	1.2357	-0.0403
36	30	HDR UNBIAS	1.2768	1.2355	-0.0413
37	30	HDR UNBIAS	1.275	1.2386	-0.0364
38	30	HDR UNBIAS	1.2754	1.2363	-0.0391
39	30	HDR UNBIAS	1.2765	1.2358	-0.0407
40	30	HDR UNBIAS	1.275	1.2386	-0.0364
41	50	HDR BIAS	1.276	1.2363	-0.0397
42	50	HDR BIAS	1.2768	1.2355	-0.0413
43	50	HDR BIAS	1.2747	1.2386	-0.0361
44	50	HDR BIAS	1.2757	1.2363	-0.0394
45	50	HDR BIAS	1.2765	1.2355	-0.041
46	50	HDR UNBIAS	1.2753	1.2386	-0.0367
47	50	HDR UNBIAS	1.2757	1.2363	-0.0394
48	50	HDR UNBIAS	1.2768	1.2355	-0.0413
49	50	HDR UNBIAS	1.275	1.2386	-0.0364
50	50	HDR UNBIAS	1.2757	1.2363	-0.0394
71	0	CORRELATION	1.2754	1.2782	0.0028
72	0	CORRELATION	1.2768	1.276	-0.0008
73	0	CORRELATION	1.2747	1.2751	0.0004

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	1.2747	1.2756	1.2768	0.0010693	1.2751	1.2764	1.2782	0.0015948	-0.0008	0.0008	0.0028	0.001833
20	1.275	1.2759	1.2768	0.00076746	1.2355	1.2524	1.2782	0.021526	-0.0413	-0.02357	0.0032	0.022032
30	1.275	1.2758	1.2768	0.00073756	1.2355	1.2409	1.2782	0.013181	-0.0413	-0.0349	0.0032	0.013531
50	1.2747	1.2758	1.2768	0.00071926	1.2355	1.2368	1.2386	0.0013235	-0.0413	-0.03907	-0.0361	0.0019989

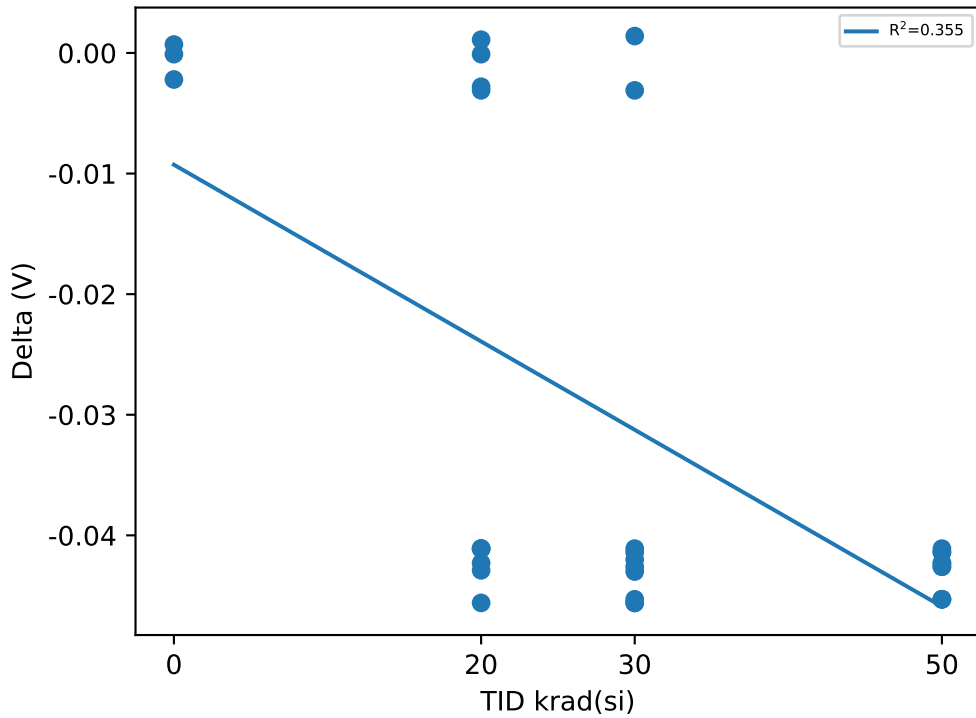
TID vs Result Stats



Test Results (Lower Limit = 0.9, Upper Limit = 3.5 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.0338	2.9927	-0.0411
22	20	HDR BIAS	3.035	2.9894	-0.0456
23	20	HDR BIAS	2.9925	2.9924	-0.0001
24	20	HDR BIAS	3.0338	2.9927	-0.0411
25	20	HDR BIAS	2.9925	2.9897	-0.0028
26	20	HDR UNBIAS	3.035	2.9921	-0.0429
27	20	HDR UNBIAS	3.0338	2.9927	-0.0411
28	20	HDR UNBIAS	3.0353	3.0322	-0.0031
29	20	HDR UNBIAS	3.0347	2.9924	-0.0423
30	20	HDR UNBIAS	3.0338	3.0349	0.0011
31	30	HDR BIAS	3.035	2.9897	-0.0453
32	30	HDR BIAS	3.0347	2.9917	-0.043
33	30	HDR BIAS	3.0335	3.0349	0.0014
34	30	HDR BIAS	3.0356	3.0325	-0.0031
35	30	HDR BIAS	3.0347	2.9927	-0.042
36	30	HDR UNBIAS	3.0338	2.9927	-0.0411
37	30	HDR UNBIAS	3.0353	2.9897	-0.0456
38	30	HDR UNBIAS	3.035	2.9924	-0.0426
39	30	HDR UNBIAS	3.0341	2.9927	-0.0414
40	30	HDR UNBIAS	3.0353	2.9897	-0.0456
41	50	HDR BIAS	3.0344	2.9921	-0.0423
42	50	HDR BIAS	3.0338	2.9924	-0.0414
43	50	HDR BIAS	3.035	2.9897	-0.0453
44	50	HDR BIAS	3.0347	2.9924	-0.0423
45	50	HDR BIAS	3.0338	2.9927	-0.0411
46	50	HDR UNBIAS	3.035	2.9897	-0.0453
47	50	HDR UNBIAS	3.0347	2.9921	-0.0426
48	50	HDR UNBIAS	3.0338	2.9924	-0.0414
49	50	HDR UNBIAS	3.035	2.9897	-0.0453
50	50	HDR UNBIAS	3.0347	2.9921	-0.0426
71	0	CORRELATION	3.0347	3.0325	-0.0022
72	0	CORRELATION	3.0338	3.0345	0.0007
73	0	CORRELATION	3.0353	3.0352	-0.0001

TID vs Post - Pre Exposure Delta



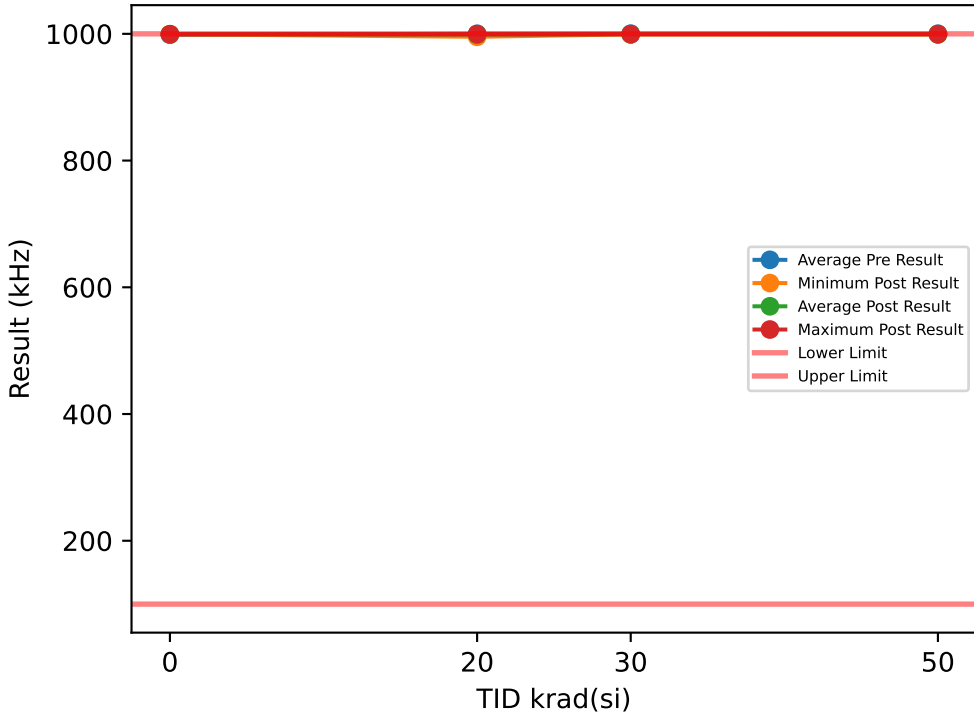
Test Statistics (V)

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	3.0338	3.0346	3.0353	0.00075498	3.0325	3.0341	3.0352	0.0014012	-0.0022	-0.00053333	0.0007	0.0014978
20	2.9925	3.026	3.0353	0.017676	2.9894	3.0001	3.0349	0.017673	-0.0456	-0.0259	0.0011	0.021311
30	3.0335	3.0347	3.0356	0.00069282	2.9897	2.9999	3.0349	0.017885	-0.0456	-0.03483	0.0014	0.018019
50	3.0338	3.0345	3.035	0.00051088	2.9897	2.9915	2.9927	0.0012763	-0.0453	-0.04296	-0.0411	0.0016959



Device Test: 20.100 LEVEL|FREQ/SYNC/12/12/0/1000/5/1MHz//@FREQ\_SYNC\_EXT

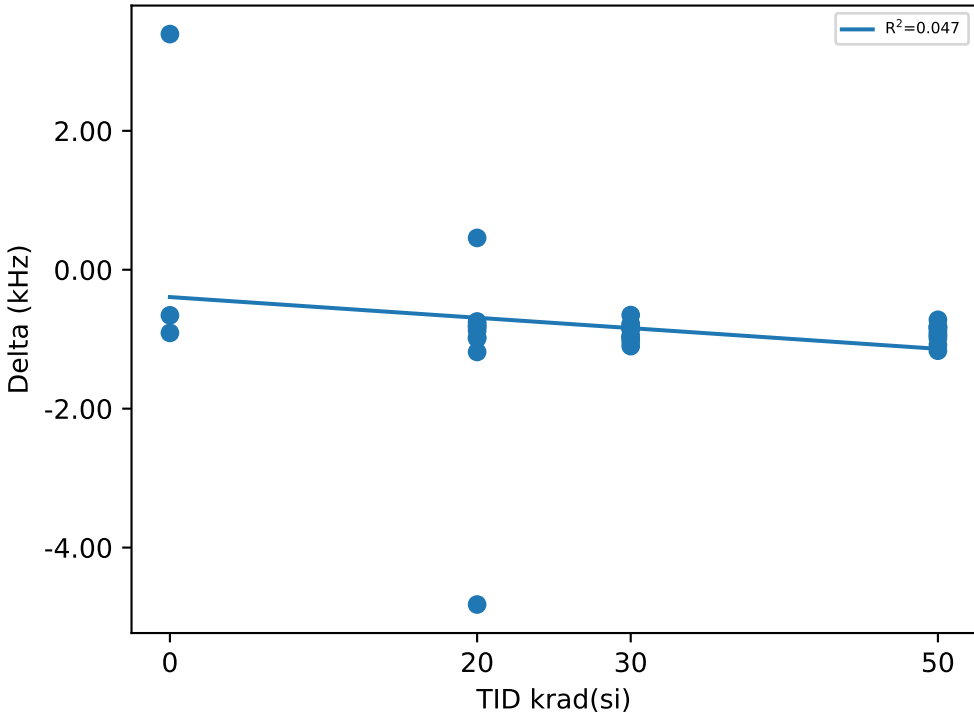
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1000.4	999.43	-0.9749
22	20	HDR BIAS	1000.2	999.4	-0.8186
23	20	HDR BIAS	1000.1	999.34	-0.7789
24	20	HDR BIAS	998.88	999.34	0.4581
25	20	HDR BIAS	1000.2	999.28	-0.8748
26	20	HDR UNBIAS	1000.2	999.37	-0.8185
27	20	HDR UNBIAS	1000.2	999.47	-0.7446
28	20	HDR UNBIAS	1000.2	999.05	-1.1836
29	20	HDR UNBIAS	1000.2	999.24	-0.9881
30	20	HDR UNBIAS	1000.2	995.33	-4.8198
31	30	HDR BIAS	1000.2	999.26	-0.9791
32	30	HDR BIAS	1000.3	999.19	-1.0994
33	30	HDR BIAS	1000.3	999.32	-0.9755
34	30	HDR BIAS	1000.1	999.43	-0.6525
35	30	HDR BIAS	1000.2	999.38	-0.8583
36	30	HDR UNBIAS	1000.3	999.5	-0.8024
37	30	HDR UNBIAS	1000.2	999.4	-0.8474
38	30	HDR UNBIAS	1000.3	999.23	-1.0306
39	30	HDR UNBIAS	1000.3	999.39	-0.9503
40	30	HDR UNBIAS	1000.2	999.43	-0.7805
41	50	HDR BIAS	1000.3	999.11	-1.1659
42	50	HDR BIAS	1000.4	999.46	-0.9857
43	50	HDR BIAS	1000.2	999.26	-0.9492
44	50	HDR BIAS	1000.1	999.17	-0.9258
45	50	HDR BIAS	1000.2	999.48	-0.7208
46	50	HDR UNBIAS	1000.1	999.26	-0.8177
47	50	HDR UNBIAS	1000.1	999.26	-0.8273
48	50	HDR UNBIAS	1000.4	999.32	-1.083
49	50	HDR UNBIAS	1000.1	999.25	-0.8343
50	50	HDR UNBIAS	1000.1	999.23	-0.8795
71	0	CORRELATION	1000	999.38	-0.6563
72	0	CORRELATION	1000.2	999.32	-0.9092
73	0	CORRELATION	995.97	999.36	3.393

TID vs Post - Pre Exposure Delta



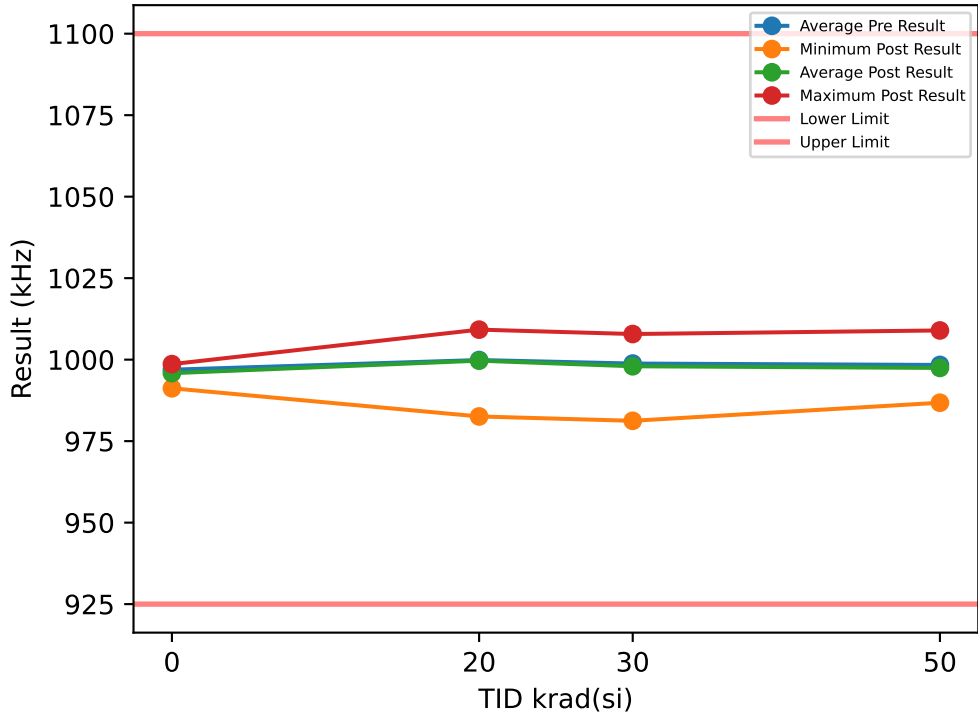
Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	995.97	998.75	1000.2	2.4045	999.32	999.35	999.38	0.033048	-0.9092	0.60917	3.393	2.4142
20	998.88	1000.1	1000.4	0.42815	995.33	998.92	999.47	1.2674	-4.8198	-1.1544	0.4581	1.3625
30	1000.1	1000.3	1000.3	0.07068	999.19	999.35	999.5	0.09942	-1.0994	-0.8976	-0.6525	0.13367
50	1000.1	1000.2	1000.4	0.13683	999.11	999.28	999.48	0.11597	-1.1659	-0.91892	-0.7208	0.13331



# Device Test: 20.101 LEVEL|FREQ/RT/14/14/0/1000/5/1MHz//@FSW\_EXT\_RT\_D

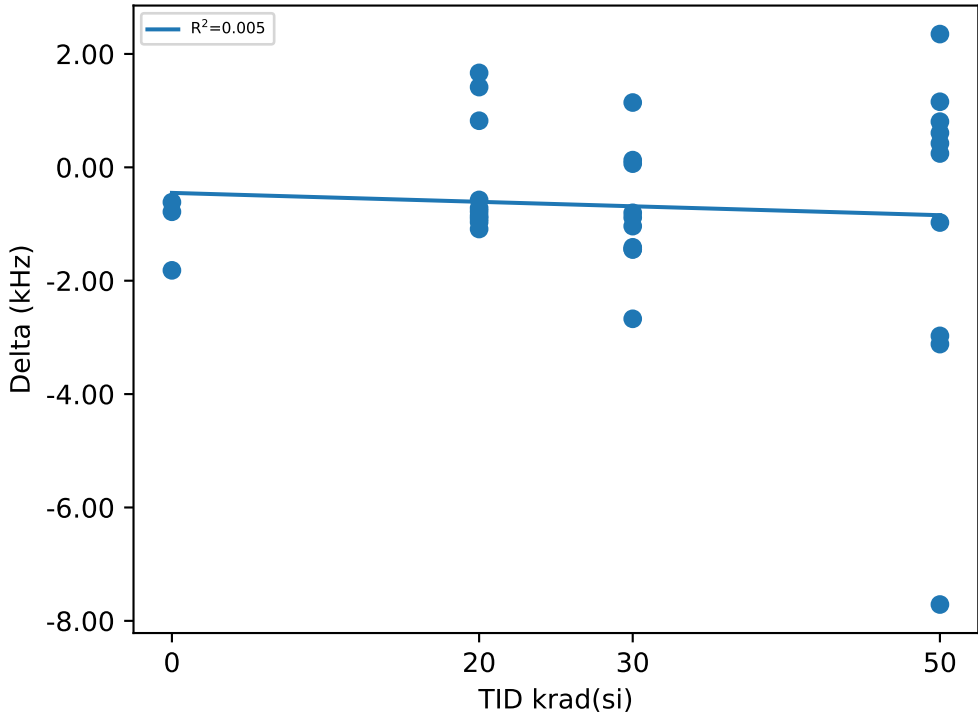
### TID vs Result Stats



### Test Results (Lower Limit = 925.0, Upper Limit = 1100.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1010.1	1009.2	-0.903
22	20	HDR BIAS	992.85	991.88	-0.9657
23	20	HDR BIAS	999.94	1001.4	1.4154
24	20	HDR BIAS	983.15	982.57	-0.5748
25	20	HDR BIAS	1007.8	1007	-0.7793
26	20	HDR UNBIAS	1002.4	1001.7	-0.7175
27	20	HDR UNBIAS	990.36	992.02	1.6658
28	20	HDR UNBIAS	1002.2	1003	0.822
29	20	HDR UNBIAS	1004.7	1003.9	-0.8558
30	20	HDR UNBIAS	1005.3	1004.2	-1.088
31	30	HDR BIAS	993.09	994.23	1.1431
32	30	HDR BIAS	1007.8	1007.9	0.0649
33	30	HDR BIAS	997.01	995.98	-1.0373
34	30	HDR BIAS	982.68	981.23	-1.4409
35	30	HDR BIAS	1002.8	1000.1	-2.672
36	30	HDR UNBIAS	1004.1	1003.3	-0.8023
37	30	HDR UNBIAS	998.01	998.14	0.1271
38	30	HDR UNBIAS	997.07	995.62	-1.4504
39	30	HDR UNBIAS	1009.2	1007.8	-1.4107
40	30	HDR UNBIAS	996.2	995.32	-0.884
41	50	HDR BIAS	998.12	995.14	-2.9731
42	50	HDR BIAS	1000.4	997.32	-3.1182
43	50	HDR BIAS	989.04	989.85	0.8059
44	50	HDR BIAS	1002	1002.3	0.2439
45	50	HDR BIAS	992.17	992.59	0.4228
46	50	HDR UNBIAS	1000.1	1000.7	0.6071
47	50	HDR UNBIAS	1000.8	999.82	-0.9738
48	50	HDR UNBIAS	994.49	986.78	-7.7117
49	50	HDR UNBIAS	1000	1001.2	1.1567
50	50	HDR UNBIAS	1006.6	1009	2.3505
71	0	CORRELATION	992	991.21	-0.784
72	0	CORRELATION	999.51	997.69	-1.8171
73	0	CORRELATION	999.24	998.63	-0.6151

### TID vs Post - Pre Exposure Delta

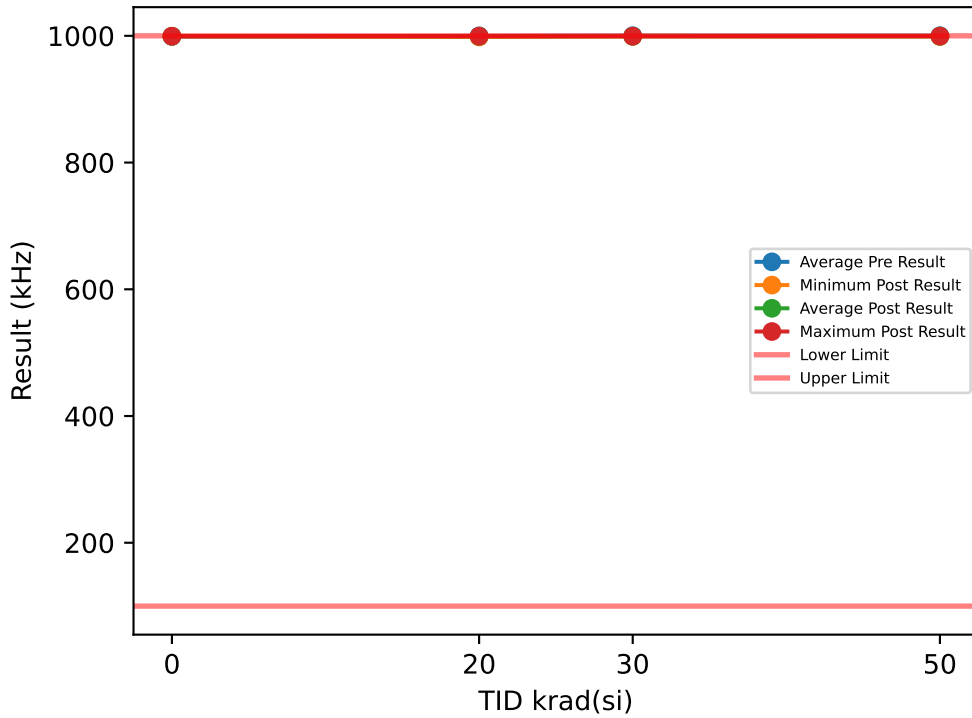


### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	992	996.92	999.51	4.2612	991.21	995.84	998.63	4.037	-1.8171	-1.0721	-0.6151	0.65072
20	983.15	999.88	1010.1	8.5145	982.57	999.68	1009.2	8.2534	-1.088	-0.19809	1.6658	1.0634
30	982.68	998.8	1009.2	7.7462	981.23	997.97	1007.9	7.7355	-2.672	-0.83625	1.1431	1.0617
50	989.04	998.38	1006.6	5.1383	986.78	997.46	1009	6.5515	-7.7117	-0.91899	2.3505	2.9563

# Device Test: 20.102 LEVEL|FREQ/SYNC/14/14/0/1000/5/1MHz//@FREQ\_SYNC\_EXT

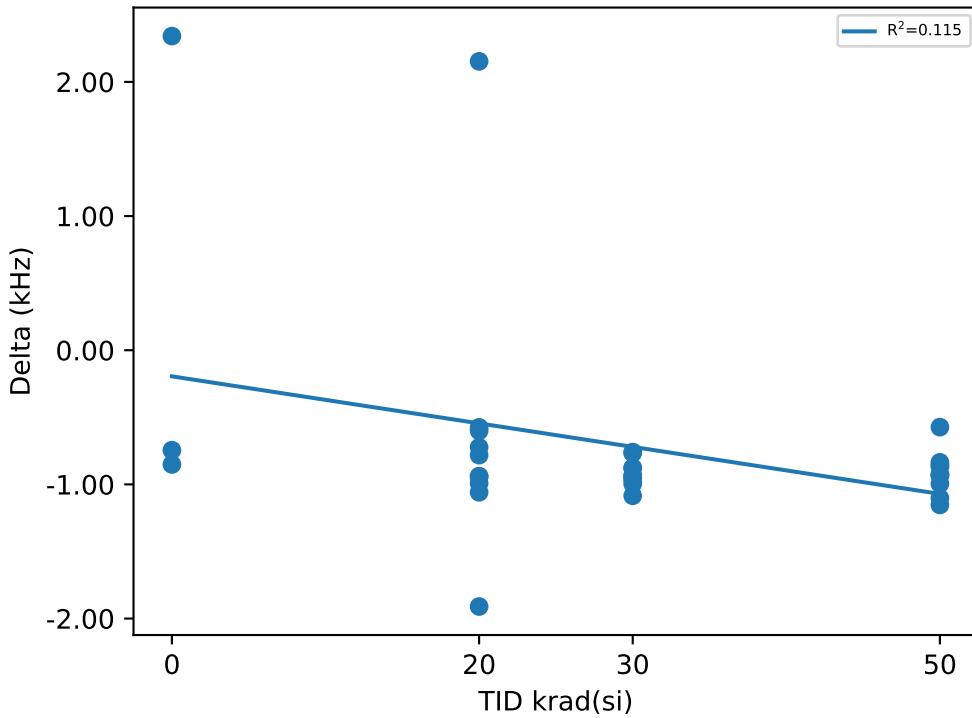
### TID vs Result Stats



### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1000.3	999.39	-0.9391
22	20	HDR BIAS	997.24	999.4	2.1532
23	20	HDR BIAS	1000.1	998.19	-1.9103
24	20	HDR BIAS	1000.3	999.5	-0.7822
25	20	HDR BIAS	1000	999.43	-0.575
26	20	HDR UNBIAS	1000.1	999.09	-1.0589
27	20	HDR UNBIAS	1000.3	999.34	-0.9411
28	20	HDR UNBIAS	1000	999.42	-0.6003
29	20	HDR UNBIAS	1000.1	999.14	-0.9918
30	20	HDR UNBIAS	1000.2	999.48	-0.7234
31	30	HDR BIAS	1000.2	999.4	-0.7592
32	30	HDR BIAS	1000.3	999.27	-0.9966
33	30	HDR BIAS	1000.4	999.31	-1.0847
34	30	HDR BIAS	1000.2	999.23	-0.9381
35	30	HDR BIAS	1000.2	999.29	-0.9527
36	30	HDR UNBIAS	1000.1	999.38	-0.7662
37	30	HDR UNBIAS	1000.1	999.26	-0.8765
38	30	HDR UNBIAS	1000.2	999.31	-0.9323
39	30	HDR UNBIAS	1000.3	999.34	-0.968
40	30	HDR UNBIAS	1000.2	999.36	-0.8777
41	50	HDR BIAS	1000.3	999.12	-1.1531
42	50	HDR BIAS	1000.2	999.3	-0.9347
43	50	HDR BIAS	1000.2	999.24	-0.9292
44	50	HDR BIAS	1000.2	999.13	-1.1027
45	50	HDR BIAS	1000.3	999.48	-0.8675
46	50	HDR UNBIAS	1000.2	999.19	-0.9954
47	50	HDR UNBIAS	1000.1	999.27	-0.8553
48	50	HDR UNBIAS	1000.3	999.34	-0.9265
49	50	HDR UNBIAS	999.98	999.41	-0.5731
50	50	HDR UNBIAS	1000.1	999.31	-0.8355
71	0	CORRELATION	997.03	999.38	2.3416
72	0	CORRELATION	1000.1	999.28	-0.8514
73	0	CORRELATION	1000.1	999.31	-0.7448

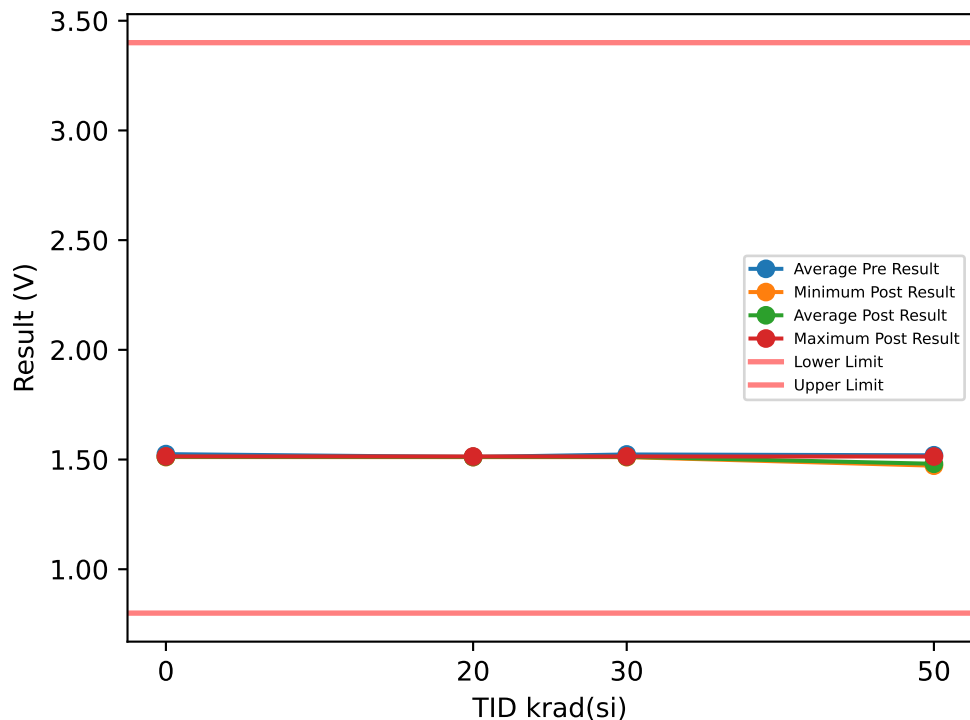
### TID vs Post - Pre Exposure Delta



### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	997.03	999.07	1000.1	1.7661	999.28	999.32	999.38	0.050759	-0.8514	0.24847	2.3416	1.8135
20	997.24	999.87	1000.3	0.93075	998.19	999.24	999.5	0.39317	-1.9103	-0.63689	2.1532	1.0503
30	1000.1	1000.2	1000.4	0.079589	999.23	999.32	999.4	0.054176	-1.0847	-0.9152	-0.7592	0.099893
50	999.98	1000.2	1000.3	0.10104	999.12	999.28	999.48	0.11332	-1.1531	-0.9173	-0.5731	0.1592

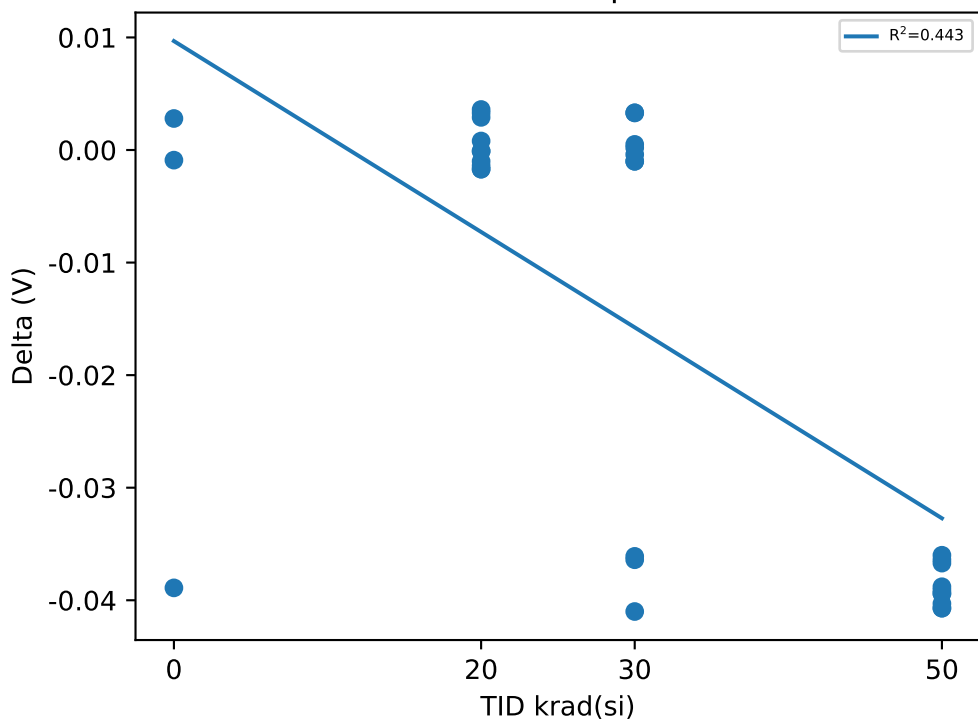
TID vs Result Stats



Test Results (Lower Limit = 0.8, Upper Limit = 3.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.5122	1.5112	-0.001
22	20	HDR BIAS	1.5104	1.514	0.0036
23	20	HDR BIAS	1.5112	1.512	0.0008
24	20	HDR BIAS	1.5126	1.5112	-0.0014
25	20	HDR BIAS	1.5107	1.514	0.0033
26	20	HDR UNBIAS	1.5115	1.5114	-0.0001
27	20	HDR UNBIAS	1.5126	1.5109	-0.0017
28	20	HDR UNBIAS	1.5111	1.514	0.0029
29	20	HDR UNBIAS	1.5115	1.5114	-0.0001
30	20	HDR UNBIAS	1.5126	1.5109	-0.0017
31	30	HDR BIAS	1.5107	1.514	0.0033
32	30	HDR BIAS	1.5115	1.5117	0.0002
33	30	HDR BIAS	1.5122	1.5112	-0.001
34	30	HDR BIAS	1.5501	1.514	-0.0361
35	30	HDR BIAS	1.5115	1.5111	-0.0004
36	30	HDR UNBIAS	1.5519	1.5109	-0.041
37	30	HDR UNBIAS	1.5501	1.5137	-0.0364
38	30	HDR UNBIAS	1.5115	1.512	0.0005
39	30	HDR UNBIAS	1.5122	1.5112	-0.001
40	30	HDR UNBIAS	1.5107	1.514	0.0033
41	50	HDR BIAS	1.5508	1.5114	-0.0394
42	50	HDR BIAS	1.5122	1.4719	-0.0403
43	50	HDR BIAS	1.5504	1.5137	-0.0367
44	50	HDR BIAS	1.5112	1.4724	-0.0388
45	50	HDR BIAS	1.5126	1.4719	-0.0407
46	50	HDR UNBIAS	1.5107	1.4747	-0.036
47	50	HDR UNBIAS	1.5118	1.4727	-0.0391
48	50	HDR UNBIAS	1.5126	1.4719	-0.0407
49	50	HDR UNBIAS	1.5111	1.4747	-0.0364
50	50	HDR UNBIAS	1.5115	1.4721	-0.0394
71	0	CORRELATION	1.5115	1.5143	0.0028
72	0	CORRELATION	1.5126	1.5117	-0.0009
73	0	CORRELATION	1.5501	1.5112	-0.0389

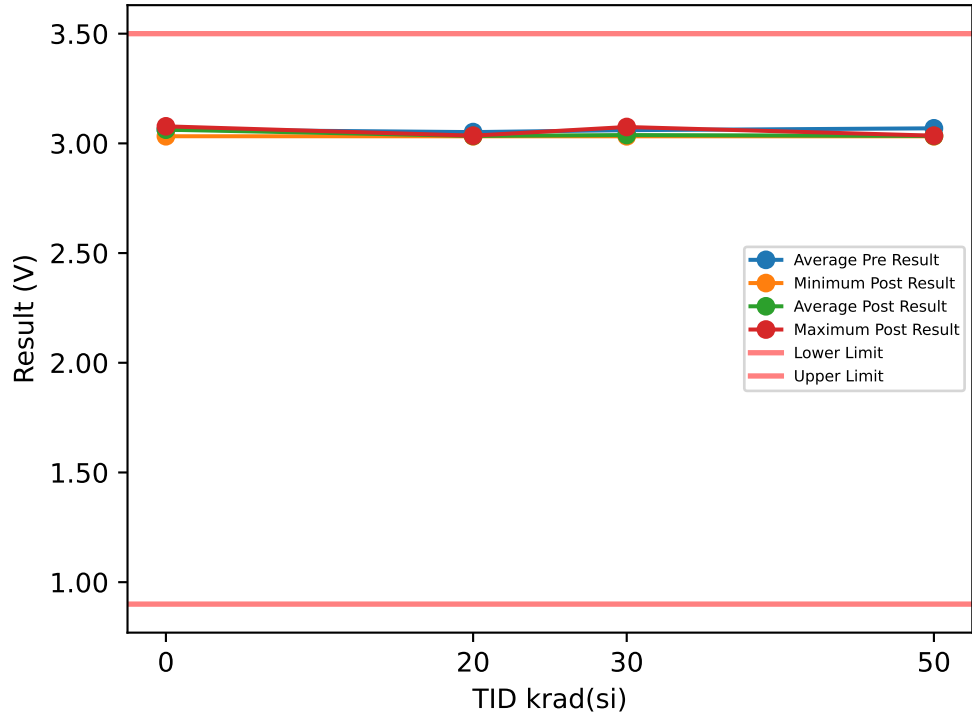
TID vs Post - Pre Exposure Delta



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	1.5115	1.5247	1.5501	0.021975	1.5112	1.5124	1.5143	0.0016643	-0.0389	-0.012333	0.0028	0.023082
20	1.5104	1.5116	1.5126	0.00081813	1.5109	1.5121	1.514	0.0013466	-0.0017	0.00046	0.0036	0.0020961
30	1.5107	1.5232	1.5519	0.018962	1.5109	1.5124	1.514	0.0013677	-0.041	-0.01086	0.0033	0.01872
50	1.5107	1.5195	1.5508	0.016409	1.4719	1.4807	1.5137	0.016808	-0.0407	-0.03875	-0.036	0.0017722

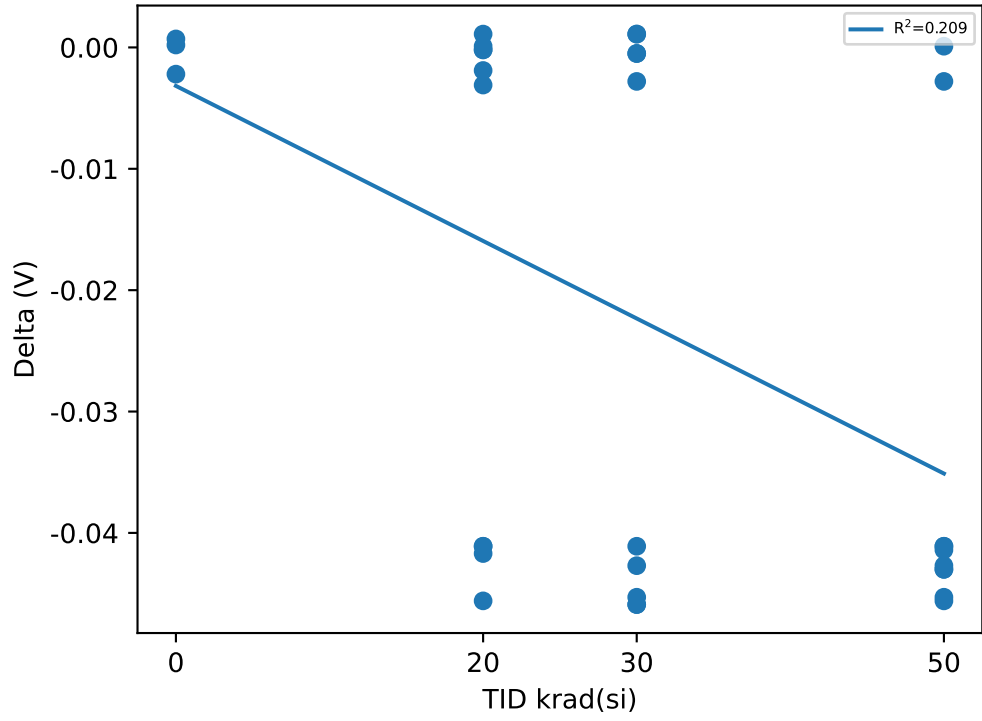
TID vs Result Stats



Test Results (Lower Limit = 0.9, Upper Limit = 3.5 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.0763	3.0352	-0.0411
22	20	HDR BIAS	3.0347	3.0328	-0.0019
23	20	HDR BIAS	3.035	3.0348	-0.0002
24	20	HDR BIAS	3.0763	3.0352	-0.0411
25	20	HDR BIAS	3.0353	3.0322	-0.0031
26	20	HDR UNBIAS	3.0344	3.0342	-0.0002
27	20	HDR UNBIAS	3.0338	3.0349	0.0011
28	20	HDR UNBIAS	3.0778	3.0322	-0.0456
29	20	HDR UNBIAS	3.0344	3.0345	0.0001
30	20	HDR UNBIAS	3.0766	3.0349	-0.0417
31	30	HDR BIAS	3.0781	3.0322	-0.0459
32	30	HDR BIAS	3.0775	3.0348	-0.0427
33	30	HDR BIAS	3.0763	3.0352	-0.0411
34	30	HDR BIAS	3.0778	3.0325	-0.0453
35	30	HDR BIAS	3.0347	3.0342	-0.0005
36	30	HDR UNBIAS	3.0338	3.0349	0.0011
37	30	HDR UNBIAS	3.0775	3.0747	-0.0028
38	30	HDR UNBIAS	3.0347	3.0342	-0.0005
39	30	HDR UNBIAS	3.0338	3.0349	0.0011
40	30	HDR UNBIAS	3.0781	3.0322	-0.0459
41	50	HDR BIAS	3.0772	3.0345	-0.0427
42	50	HDR BIAS	3.0763	3.0352	-0.0411
43	50	HDR BIAS	3.0778	3.0325	-0.0453
44	50	HDR BIAS	3.0347	3.0348	0.0001
45	50	HDR BIAS	3.0763	3.0352	-0.0411
46	50	HDR UNBIAS	3.035	3.0322	-0.0028
47	50	HDR UNBIAS	3.0775	3.0345	-0.043
48	50	HDR UNBIAS	3.0763	3.0349	-0.0414
49	50	HDR UNBIAS	3.0781	3.0325	-0.0456
50	50	HDR UNBIAS	3.0775	3.0345	-0.043
71	0	CORRELATION	3.0347	3.0325	-0.0022
72	0	CORRELATION	3.0763	3.077	0.0007
73	0	CORRELATION	3.0775	3.0777	0.0002

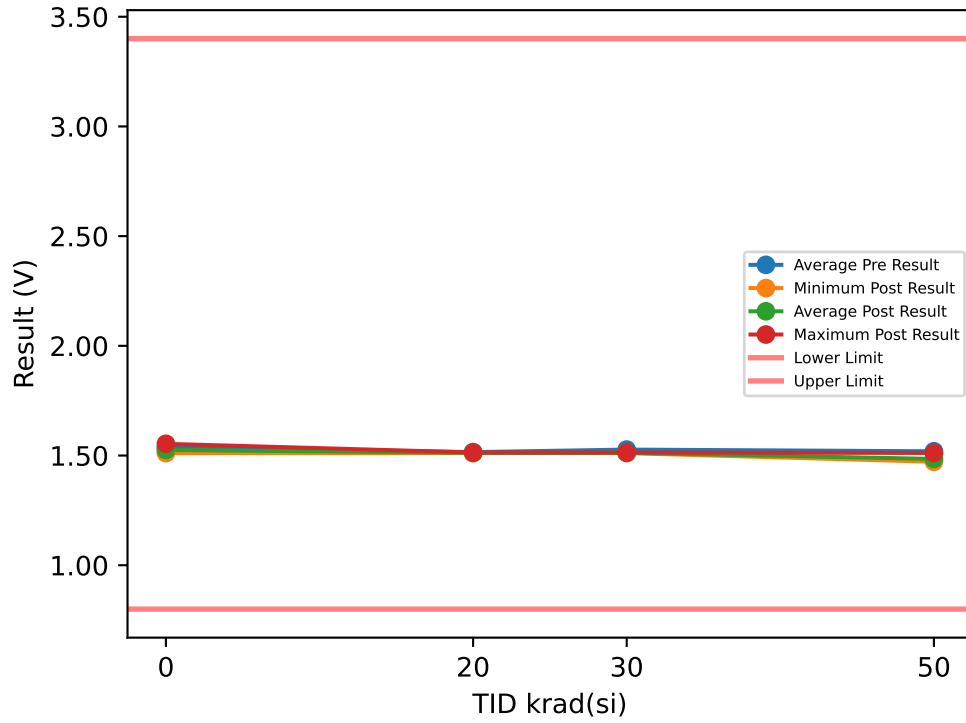
TID vs Post - Pre Exposure Delta



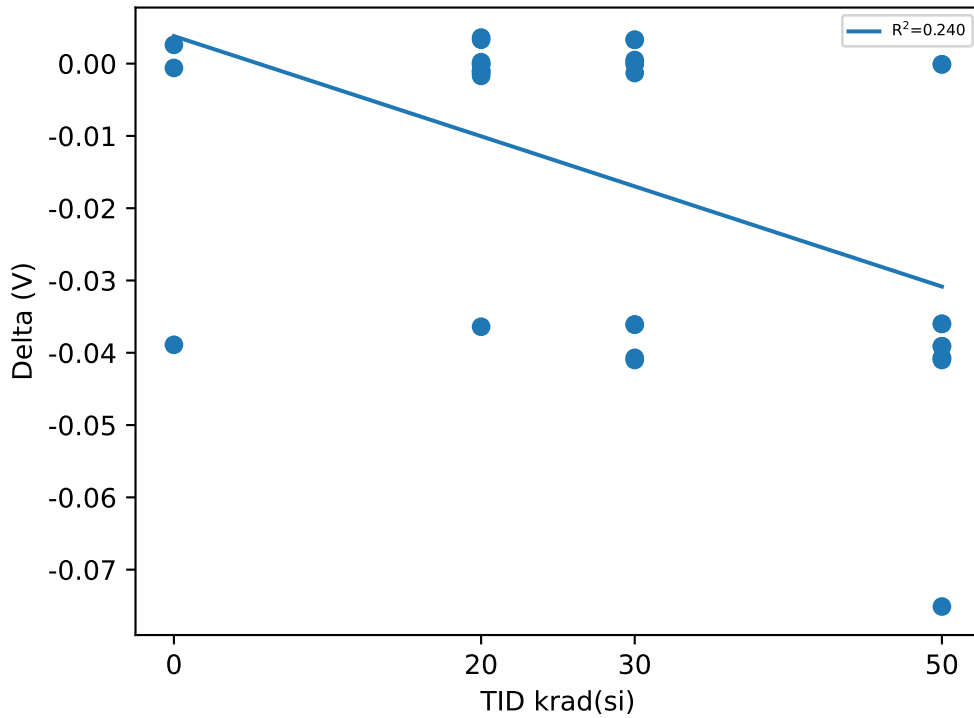
Test Statistics (V)

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	3.0347	3.0628	3.0775	0.024372	3.0325	3.0624	3.0777	0.025897	-0.0022	-0.00043333	0.0007	0.0015503
20	3.0338	3.0515	3.0778	0.021774	3.0322	3.0341	3.0352	0.0012142	-0.0456	-0.01737	0.0011	0.021587
30	3.0338	3.0602	3.0781	0.022368	3.0322	3.038	3.0747	0.012955	-0.0459	-0.02225	0.0011	0.023186
50	3.0347	3.0687	3.0781	0.017836	3.0322	3.0341	3.0352	0.0011905	-0.0456	-0.03459	0.0001	0.017601

TID vs Result Stats



TID vs Post - Pre Exposure Delta



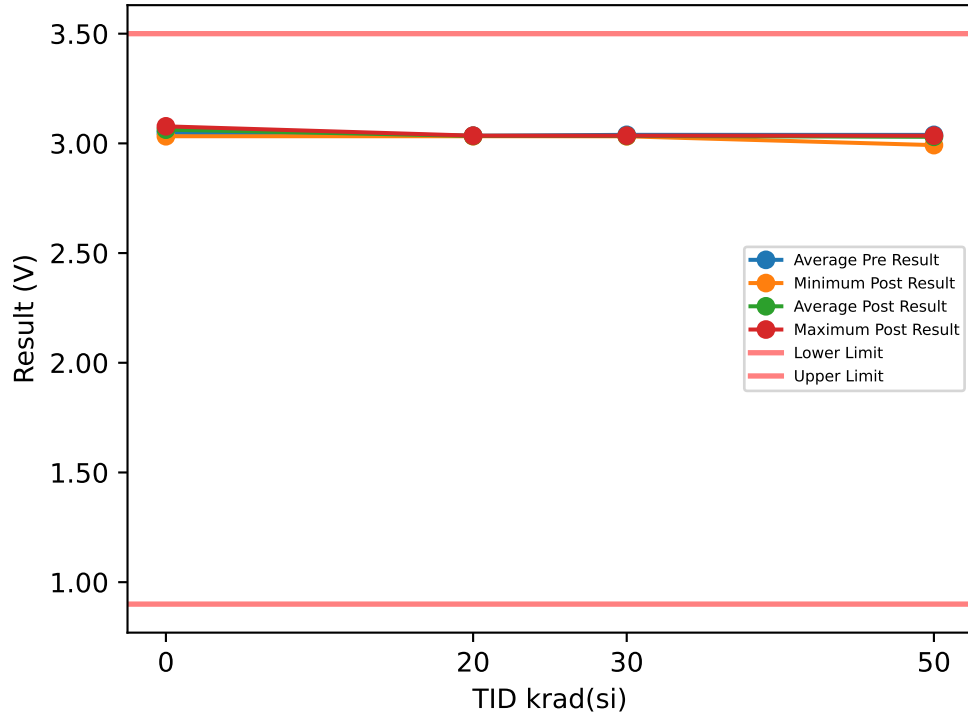
Test Results (Lower Limit = 0.8, Upper Limit = 3.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.5126	1.5109	-0.0017
22	20	HDR BIAS	1.5104	1.514	0.0036
23	20	HDR BIAS	1.5115	1.5114	-0.0001
24	20	HDR BIAS	1.5122	1.5112	-0.001
25	20	HDR BIAS	1.5504	1.514	-0.0364
26	20	HDR UNBIAS	1.5115	1.5114	-0.0001
27	20	HDR UNBIAS	1.5122	1.5109	-0.0013
28	20	HDR UNBIAS	1.5107	1.514	0.0033
29	20	HDR UNBIAS	1.5115	1.5117	0.0002
30	20	HDR UNBIAS	1.5122	1.5112	-0.001
31	30	HDR BIAS	1.5107	1.514	0.0033
32	30	HDR BIAS	1.5115	1.5114	-0.0001
33	30	HDR BIAS	1.5122	1.5109	-0.0013
34	30	HDR BIAS	1.5501	1.514	-0.0361
35	30	HDR BIAS	1.5115	1.5117	0.0002
36	30	HDR UNBIAS	1.5516	1.5109	-0.0407
37	30	HDR UNBIAS	1.5501	1.514	-0.0361
38	30	HDR UNBIAS	1.5115	1.512	0.0005
39	30	HDR UNBIAS	1.5519	1.5109	-0.041
40	30	HDR UNBIAS	1.5107	1.514	0.0033
41	50	HDR BIAS	1.5508	1.5117	-0.0391
42	50	HDR BIAS	1.5126	1.4719	-0.0407
43	50	HDR BIAS	1.5107	1.4747	-0.036
44	50	HDR BIAS	1.5112	1.4721	-0.0391
45	50	HDR BIAS	1.5126	1.4716	-0.041
46	50	HDR UNBIAS	1.5107	1.4747	-0.036
47	50	HDR UNBIAS	1.5115	1.5114	-0.0001
48	50	HDR UNBIAS	1.5126	1.4719	-0.0407
49	50	HDR UNBIAS	1.5498	1.4747	-0.0751
50	50	HDR UNBIAS	1.5115	1.5114	-0.0001
71	0	CORRELATION	1.5508	1.5534	0.0026
72	0	CORRELATION	1.5126	1.512	-0.0006
73	0	CORRELATION	1.5501	1.5112	-0.0389

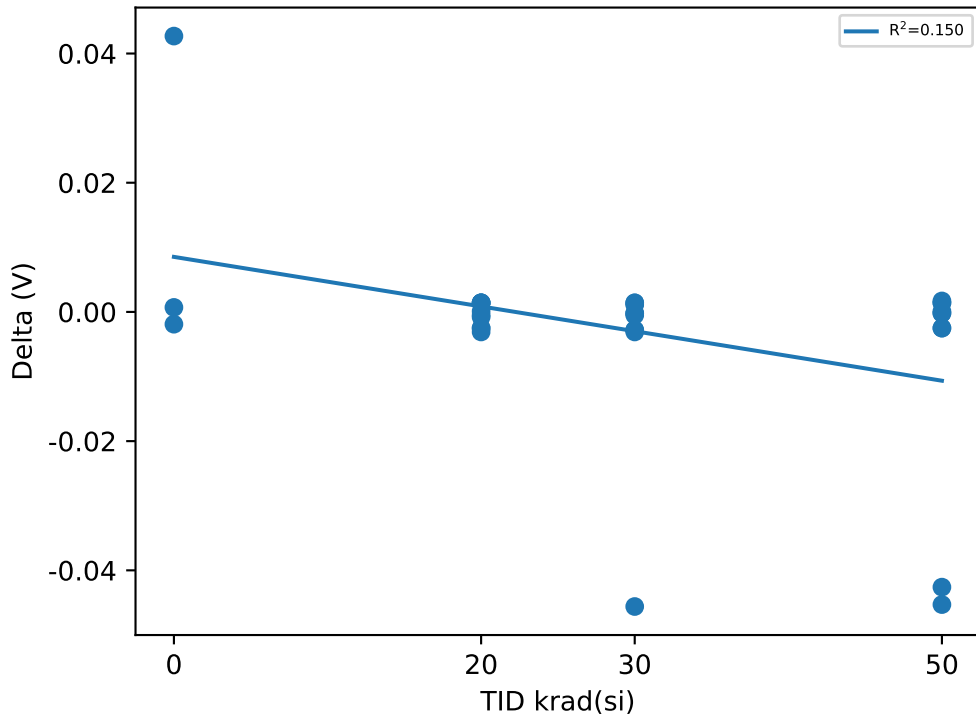
Test Statistics (V)

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	1.5126	1.5378	1.5508	0.021856	1.5112	1.5255	1.5534	0.024137	-0.0389	-0.0123	0.0026	0.023092
20	1.5104	1.5155	1.5504	0.012275	1.5109	1.5121	1.514	0.0013524	-0.0364	-0.00345	0.0036	0.011721
30	1.5107	1.5272	1.5519	0.020448	1.5109	1.5124	1.514	0.001439	-0.041	-0.0148	0.0033	0.020487
50	1.5107	1.5194	1.5508	0.016304	1.4716	1.4846	1.5117	0.018597	-0.0751	-0.03479	-0.0001	0.021551

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.9, Upper Limit = 3.5 (V))

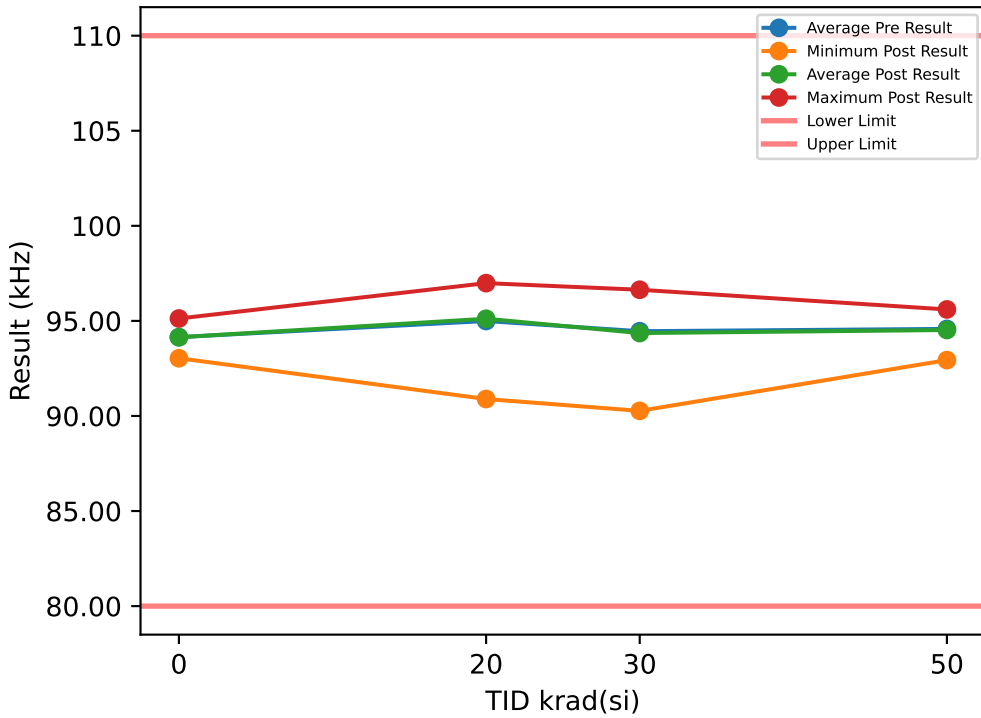
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.0338	3.0352	0.0014
22	20	HDR BIAS	3.0356	3.0325	-0.0031
23	20	HDR BIAS	3.035	3.0342	-0.0008
24	20	HDR BIAS	3.0335	3.0349	0.0014
25	20	HDR BIAS	3.035	3.0325	-0.0025
26	20	HDR UNBIAS	3.0347	3.0342	-0.0005
27	20	HDR UNBIAS	3.0338	3.0352	0.0014
28	20	HDR UNBIAS	3.035	3.0325	-0.0025
29	20	HDR UNBIAS	3.0347	3.0348	0.0001
30	20	HDR UNBIAS	3.0338	3.0352	0.0014
31	30	HDR BIAS	3.0353	3.0325	-0.0028
32	30	HDR BIAS	3.0347	3.0345	-0.0002
33	30	HDR BIAS	3.0338	3.0352	0.0014
34	30	HDR BIAS	3.0353	3.0325	-0.0028
35	30	HDR BIAS	3.035	3.0345	-0.0005
36	30	HDR UNBIAS	3.0338	3.0352	0.0014
37	30	HDR UNBIAS	3.0778	3.0322	-0.0456
38	30	HDR UNBIAS	3.0347	3.0345	-0.0002
39	30	HDR UNBIAS	3.0338	3.0349	0.0011
40	30	HDR UNBIAS	3.0356	3.0325	-0.0031
41	50	HDR BIAS	3.0347	3.0345	-0.0002
42	50	HDR BIAS	3.0335	3.0352	0.0017
43	50	HDR BIAS	3.0778	3.0325	-0.0453
44	50	HDR BIAS	3.0347	2.9921	-0.0426
45	50	HDR BIAS	3.0335	3.0349	0.0014
46	50	HDR UNBIAS	3.035	3.0325	-0.0025
47	50	HDR UNBIAS	3.0347	3.0345	-0.0002
48	50	HDR UNBIAS	3.0338	3.0352	0.0014
49	50	HDR UNBIAS	3.0353	3.0328	-0.0025
50	50	HDR UNBIAS	3.0344	3.0345	0.0001
71	0	CORRELATION	3.0344	3.0325	-0.0019
72	0	CORRELATION	3.0766	3.0773	0.0007
73	0	CORRELATION	3.035	3.0777	0.0427

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	3.0344	3.0487	3.0766	0.024193	3.0325	3.0625	3.0777	0.025982	-0.0019	0.013833	0.0427	0.025033
20	3.0335	3.0345	3.0356	0.00070781	3.0325	3.0341	3.0352	0.0011764	-0.0031	-0.00037	0.0014	0.0018099
30	3.0338	3.039	3.0778	0.013656	3.0322	3.0339	3.0352	0.0012563	-0.0456	-0.00513	0.0014	0.014325
50	3.0335	3.0387	3.0778	0.013738	2.9921	3.0299	3.0352	0.013314	-0.0453	-0.00887	0.0017	0.018558

Device Test: 20.15 LEVEL|FREQ/RT/4.5/4.5/0/0/4.5/100kHz//@FSW\_EXT\_RT\_A

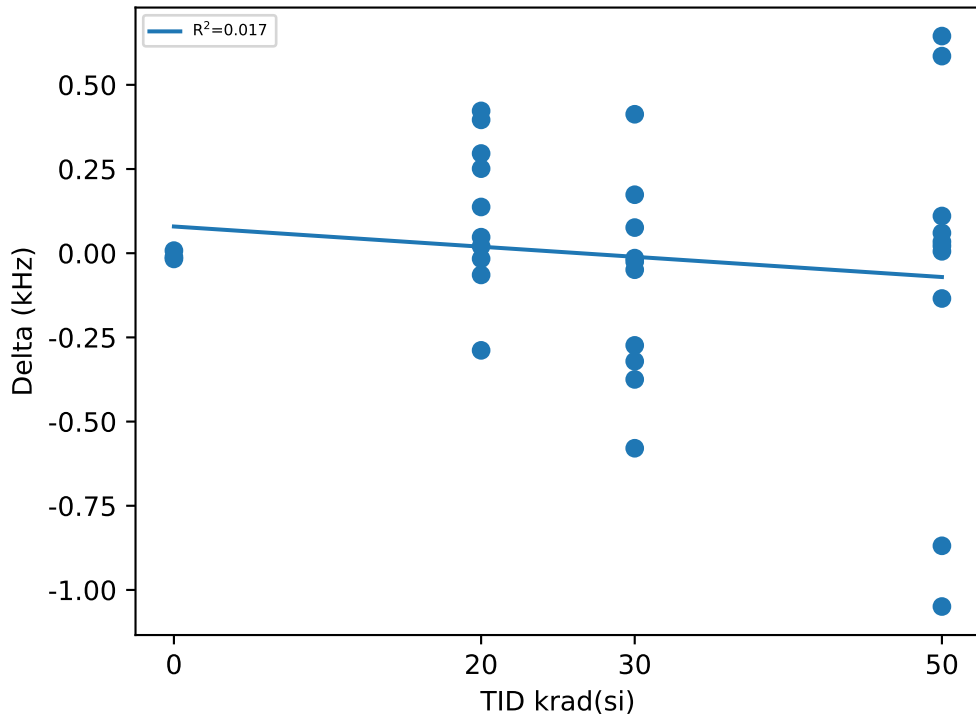
TID vs Result Stats



Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	97.002	96.986	-0.0164
22	20	HDR BIAS	93.964	93.675	-0.2885
23	20	HDR BIAS	95.899	96.322	0.4226
24	20	HDR BIAS	90.871	90.892	0.0207
25	20	HDR BIAS	95.712	95.849	0.1373
26	20	HDR UNBIAS	95.63	95.926	0.2961
27	20	HDR UNBIAS	93.874	94.269	0.396
28	20	HDR UNBIAS	94.367	94.618	0.2511
29	20	HDR UNBIAS	95.866	95.914	0.0476
30	20	HDR UNBIAS	96.749	96.684	-0.0645
31	30	HDR BIAS	94.081	94.493	0.4126
32	30	HDR BIAS	96.562	96.638	0.0761
33	30	HDR BIAS	93.667	93.618	-0.049
34	30	HDR BIAS	90.643	90.269	-0.3748
35	30	HDR BIAS	95.544	95.27	-0.2737
36	30	HDR UNBIAS	95.223	95.198	-0.0252
37	30	HDR UNBIAS	95.124	95.297	0.1737
38	30	HDR UNBIAS	93.205	93.19	-0.0146
39	30	HDR UNBIAS	96.238	95.917	-0.3209
40	30	HDR UNBIAS	94.292	93.713	-0.5792
41	50	HDR BIAS	94.124	93.99	-0.1345
42	50	HDR BIAS	96.413	95.544	-0.8689
43	50	HDR BIAS	92.915	92.937	0.0219
44	50	HDR BIAS	95.241	95.276	0.0342
45	50	HDR BIAS	92.9	93.011	0.1105
46	50	HDR UNBIAS	95.543	95.603	0.0601
47	50	HDR UNBIAS	94.482	94.488	0.0056
48	50	HDR UNBIAS	95.69	94.641	-1.0492
49	50	HDR UNBIAS	93.757	94.402	0.6448
50	50	HDR UNBIAS	94.725	95.31	0.5853
71	0	CORRELATION	93.028	93.036	0.0077
72	0	CORRELATION	94.268	94.257	-0.0109
73	0	CORRELATION	95.143	95.126	-0.017

TID vs Post - Pre Exposure Delta



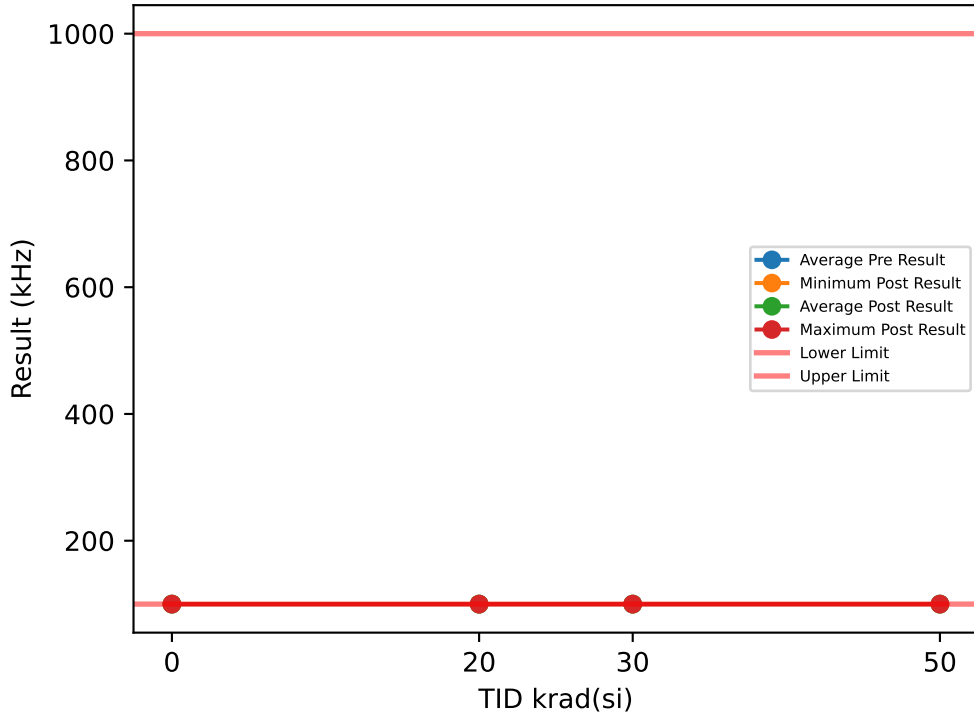
Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.028	94.146	95.143	1.0625	93.036	94.14	95.126	1.0499	-0.017	-0.0067333	0.0077	0.012866
20	90.871	94.993	97.002	1.805	90.892	95.114	96.986	1.8296	-0.2885	0.1202	0.4226	0.22382
30	90.643	94.458	96.562	1.723	90.269	94.36	96.638	1.7987	-0.5792	-0.0975	0.4126	0.29216
50	92.9	94.579	96.413	1.1768	92.937	94.52	95.603	0.97241	-1.0492	-0.05902	0.6448	0.53902



# Device Test: 20.16 LEVEL|FREQ/SYNC/4.5/4.5/0/0/4.5/100kHz//@FREQ\_SYNC\_EXT

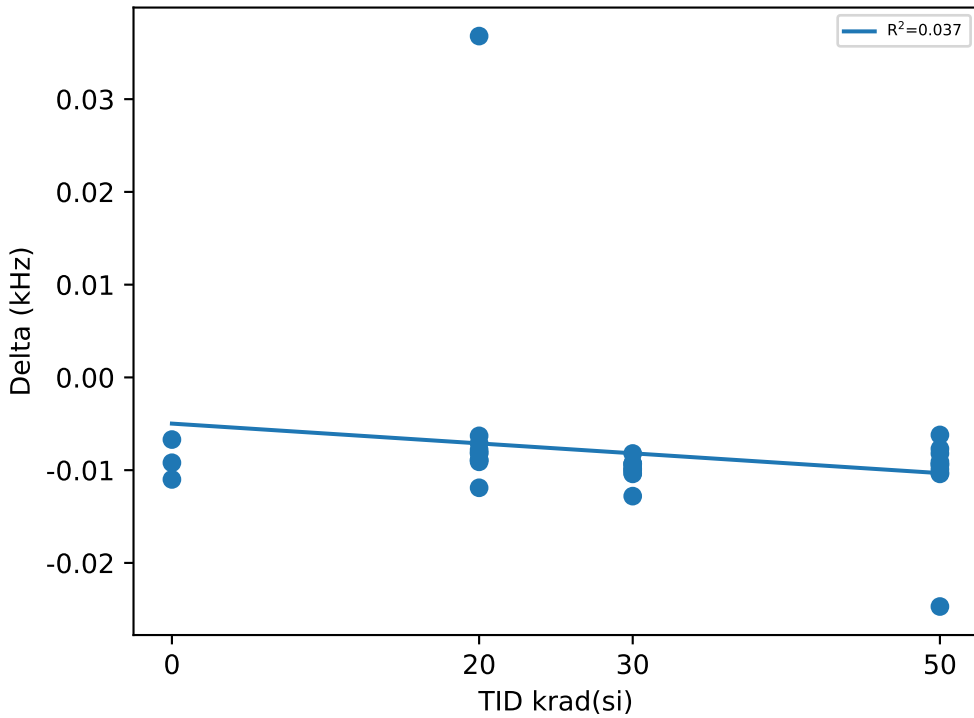
### TID vs Result Stats



### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	99.995	-0.0081
22	20	HDR BIAS	100	99.995	-0.0071
23	20	HDR BIAS	100	99.991	-0.0119
24	20	HDR BIAS	100	99.995	-0.0078
25	20	HDR BIAS	100	99.994	-0.0063
26	20	HDR UNBIAS	100	99.992	-0.0089
27	20	HDR UNBIAS	100	99.994	-0.0082
28	20	HDR UNBIAS	100	99.993	-0.0089
29	20	HDR UNBIAS	100	99.994	-0.0091
30	20	HDR UNBIAS	99.959	99.996	0.0368
31	30	HDR BIAS	100	99.993	-0.0099
32	30	HDR BIAS	100	99.993	-0.0104
33	30	HDR BIAS	100	99.993	-0.0093
34	30	HDR BIAS	100	99.993	-0.0094
35	30	HDR BIAS	100	99.992	-0.0128
36	30	HDR UNBIAS	100	99.995	-0.0082
37	30	HDR UNBIAS	100	99.993	-0.0093
38	30	HDR UNBIAS	100	99.992	-0.0098
39	30	HDR UNBIAS	100	99.993	-0.01
40	30	HDR UNBIAS	100	99.992	-0.0103
41	50	HDR BIAS	100	99.992	-0.0094
42	50	HDR BIAS	100	99.995	-0.0062
43	50	HDR BIAS	100	99.976	-0.0247
44	50	HDR BIAS	100	99.992	-0.0104
45	50	HDR BIAS	100	99.993	-0.0099
46	50	HDR UNBIAS	100	99.994	-0.0091
47	50	HDR UNBIAS	100	99.994	-0.0094
48	50	HDR UNBIAS	100	99.994	-0.0082
49	50	HDR UNBIAS	100	99.992	-0.0103
50	50	HDR UNBIAS	100	99.993	-0.0077
71	0	CORRELATION	100	99.994	-0.0092
72	0	CORRELATION	100	99.992	-0.011
73	0	CORRELATION	100	99.994	-0.0067

### TID vs Post - Pre Exposure Delta

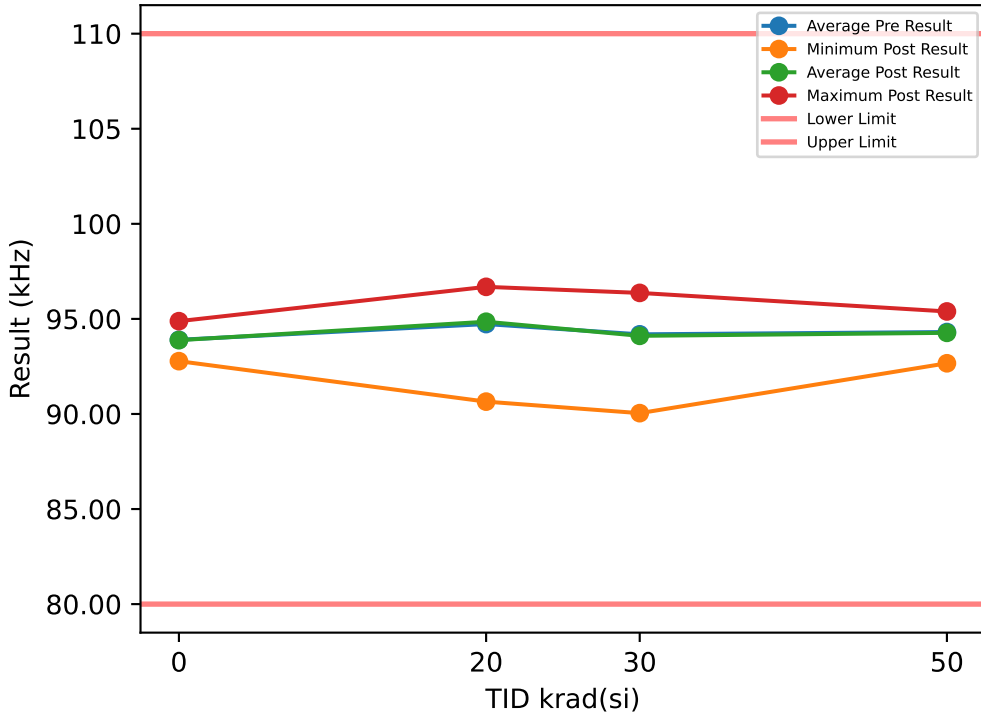


### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0.0017578	99.992	99.993	99.994	0.001222	-0.011	-0.0089667	-0.0067	0.0021595
20	99.959	99.998	100	0.013802	99.991	99.994	99.996	0.0014175	-0.0119	-0.00395	0.0368	0.014395
30	100	100	100	0.00078662	99.992	99.993	99.995	0.00085771	-0.0128	-0.00994	-0.0082	0.0011872
50	100	100	100	0.0010012	99.976	99.992	99.995	0.0056653	-0.0247	-0.01053	-0.0062	0.0051429

# Device Test: 20.19 LEVEL|FREQ/RT/5/5/0/0/5/100kHz//@FSW\_EXT\_RT\_A

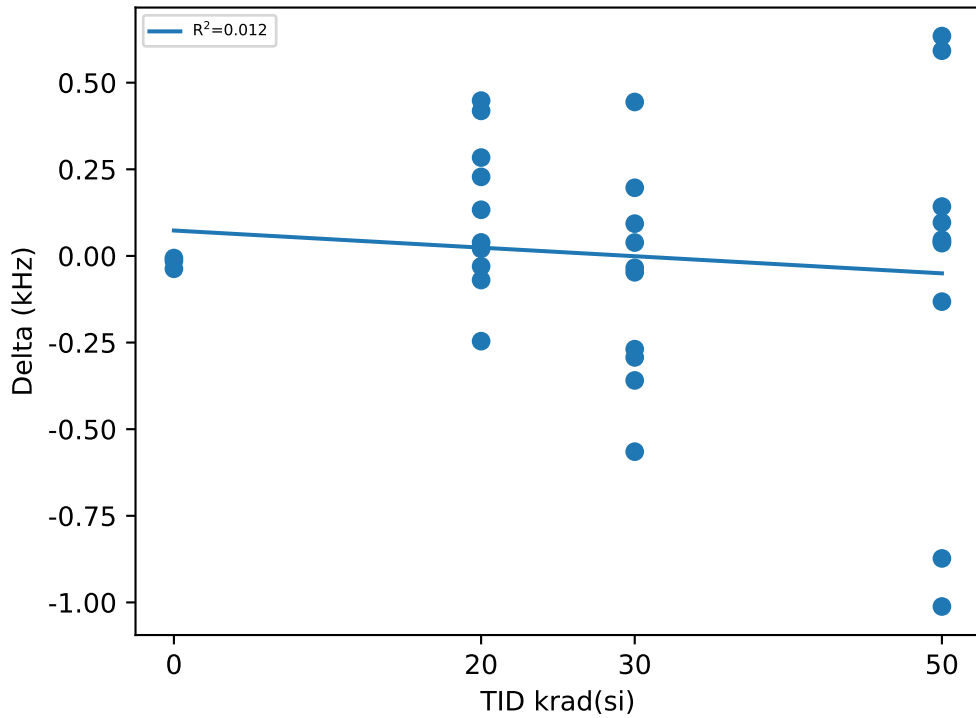
### TID vs Result Stats



### Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	96.716	96.686	-0.03
22	20	HDR BIAS	93.69	93.444	-0.246
23	20	HDR BIAS	95.628	96.077	0.4483
24	20	HDR BIAS	90.629	90.649	0.0206
25	20	HDR BIAS	95.423	95.556	0.1332
26	20	HDR UNBIAS	95.365	95.649	0.2839
27	20	HDR UNBIAS	93.634	94.052	0.4186
28	20	HDR UNBIAS	94.1	94.328	0.2282
29	20	HDR UNBIAS	95.616	95.655	0.039
30	20	HDR UNBIAS	96.482	96.413	-0.0696
31	30	HDR BIAS	93.794	94.239	0.4443
32	30	HDR BIAS	96.274	96.367	0.0932
33	30	HDR BIAS	93.399	93.351	-0.0472
34	30	HDR BIAS	90.402	90.043	-0.3593
35	30	HDR BIAS	95.281	95.012	-0.2691
36	30	HDR UNBIAS	94.983	94.949	-0.0342
37	30	HDR UNBIAS	94.85	95.047	0.1967
38	30	HDR UNBIAS	92.921	92.96	0.0387
39	30	HDR UNBIAS	95.952	95.659	-0.2929
40	30	HDR UNBIAS	94.03	93.465	-0.5649
41	50	HDR BIAS	93.871	93.739	-0.1319
42	50	HDR BIAS	96.142	95.269	-0.873
43	50	HDR BIAS	92.624	92.666	0.0417
44	50	HDR BIAS	94.966	95.013	0.0468
45	50	HDR BIAS	92.636	92.778	0.1425
46	50	HDR UNBIAS	95.295	95.392	0.0964
47	50	HDR UNBIAS	94.227	94.264	0.0369
48	50	HDR UNBIAS	95.406	94.394	-1.0118
49	50	HDR UNBIAS	93.459	94.094	0.6345
50	50	HDR UNBIAS	94.465	95.057	0.5923
71	0	CORRELATION	92.783	92.777	-0.0061
72	0	CORRELATION	94.001	93.987	-0.0144
73	0	CORRELATION	94.917	94.88	-0.0371

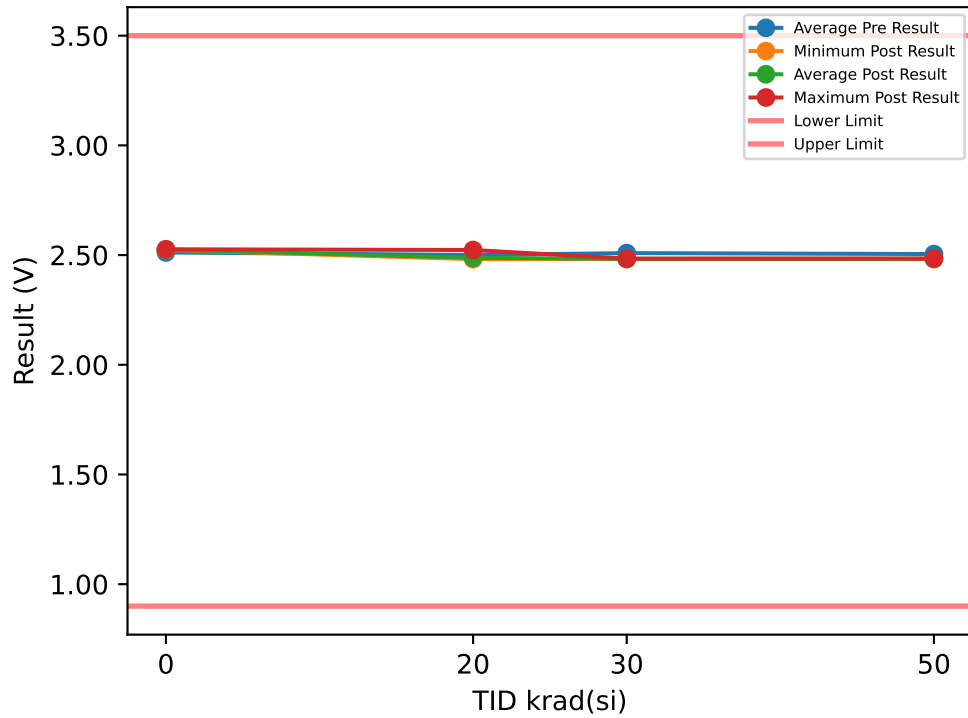
### TID vs Post - Pre Exposure Delta



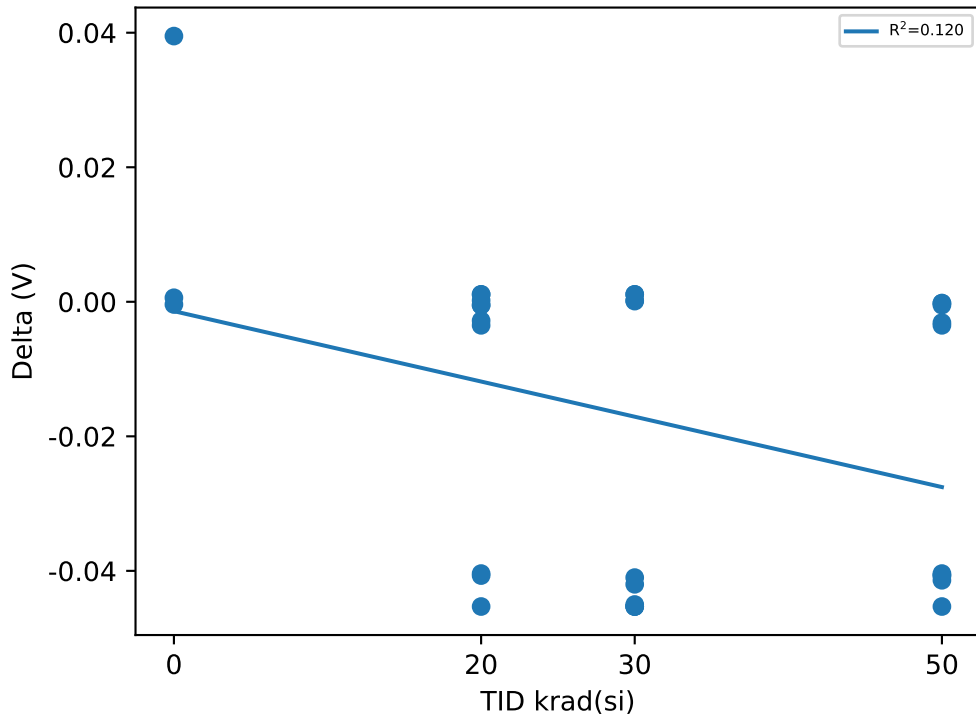
### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.783	93.901	94.917	1.0706	92.777	93.881	94.88	1.0555	-0.0371	-0.0192	-0.0061	0.016048
20	90.629	94.728	96.716	1.7948	90.649	94.851	96.686	1.8146	-0.246	0.12262	0.4483	0.22223
30	90.402	94.189	96.274	1.7149	90.043	94.109	96.367	1.7876	-0.5649	-0.07947	0.4443	0.29682
50	92.624	94.309	96.142	1.1809	92.666	94.267	95.392	0.97489	-1.0118	-0.04256	0.6345	0.53473

TID vs Result Stats



TID vs Post - Pre Exposure Delta



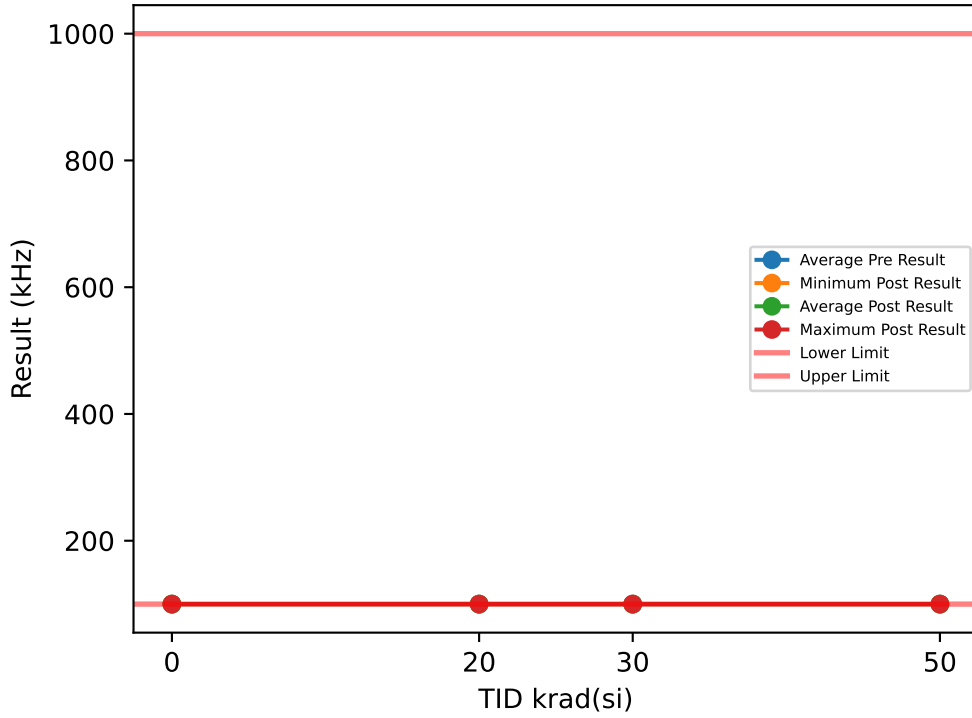
Test Results (Lower Limit = 0.9, Upper Limit = 3.5 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.4829	2.484	0.0011
22	20	HDR BIAS	2.5266	2.4813	-0.0453
23	20	HDR BIAS	2.4839	2.4834	-0.0005
24	20	HDR BIAS	2.5247	2.4843	-0.0404
25	20	HDR BIAS	2.4841	2.4813	-0.0028
26	20	HDR UNBIAS	2.4839	2.4834	-0.0005
27	20	HDR UNBIAS	2.4829	2.484	0.0011
28	20	HDR UNBIAS	2.5266	2.5231	-0.0035
29	20	HDR UNBIAS	2.4835	2.4837	0.0002
30	20	HDR UNBIAS	2.5247	2.484	-0.0407
31	30	HDR BIAS	2.5266	2.4813	-0.0453
32	30	HDR BIAS	2.4835	2.4837	0.0002
33	30	HDR BIAS	2.525	2.484	-0.041
34	30	HDR BIAS	2.5266	2.4813	-0.0453
35	30	HDR BIAS	2.5257	2.4837	-0.042
36	30	HDR UNBIAS	2.4829	2.484	0.0011
37	30	HDR UNBIAS	2.5266	2.4813	-0.0453
38	30	HDR UNBIAS	2.4839	2.484	0.0001
39	30	HDR UNBIAS	2.4829	2.484	0.0011
40	30	HDR UNBIAS	2.5263	2.4813	-0.045
41	50	HDR BIAS	2.5254	2.484	-0.0414
42	50	HDR BIAS	2.525	2.4843	-0.0407
43	50	HDR BIAS	2.5266	2.4813	-0.0453
44	50	HDR BIAS	2.4839	2.4837	-0.0002
45	50	HDR BIAS	2.5247	2.4843	-0.0404
46	50	HDR UNBIAS	2.4848	2.4813	-0.0035
47	50	HDR UNBIAS	2.4839	2.4837	-0.0002
48	50	HDR UNBIAS	2.5247	2.484	-0.0407
49	50	HDR UNBIAS	2.4844	2.4813	-0.0031
50	50	HDR UNBIAS	2.4839	2.4834	-0.0005
71	0	CORRELATION	2.4839	2.5234	0.0395
72	0	CORRELATION	2.525	2.5256	0.0006
73	0	CORRELATION	2.5269	2.5265	-0.0004

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	2.4839	2.5119	2.5269	0.024296	2.5234	2.5252	2.5265	0.0015948	-0.0004	0.013233	0.0395	0.022753
20	2.4829	2.5004	2.5266	0.021762	2.4813	2.4872	2.5231	0.012643	-0.0453	-0.01313	0.0011	0.02011
30	2.4829	2.509	2.5266	0.022126	2.4813	2.4829	2.484	0.0013476	-0.0453	-0.02614	0.0011	0.023084
50	2.4839	2.5047	2.5266	0.02167	2.4813	2.4831	2.4843	0.0012919	-0.0453	-0.0216	-0.0002	0.02126

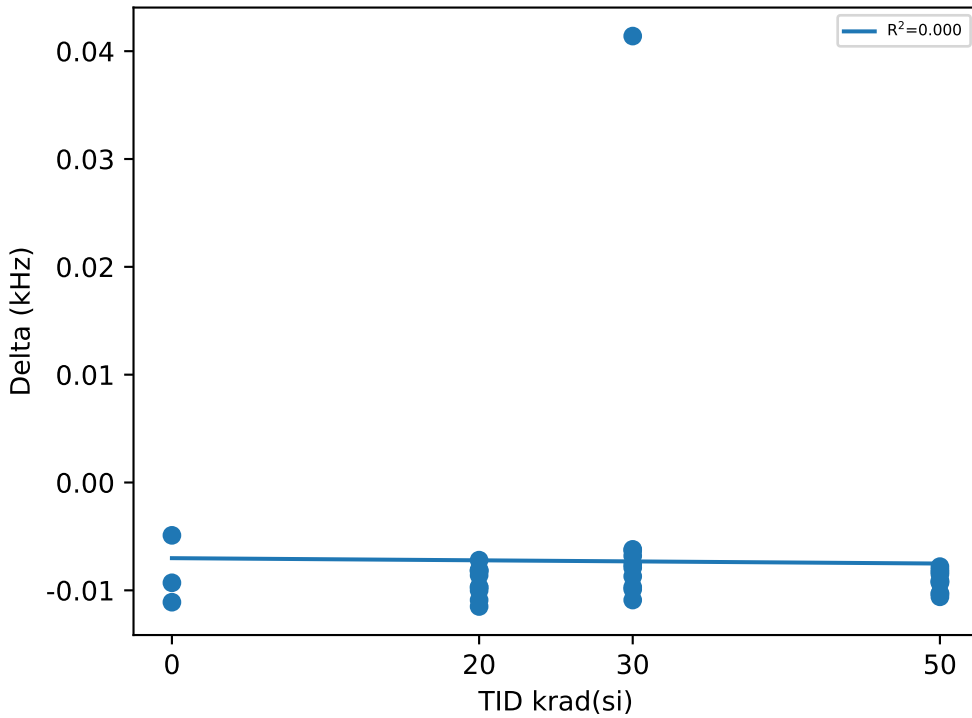
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	99.995	-0.0072
22	20	HDR BIAS	100	99.994	-0.0082
23	20	HDR BIAS	100	99.992	-0.0109
24	20	HDR BIAS	100	99.995	-0.0086
25	20	HDR BIAS	100	99.994	-0.0081
26	20	HDR UNBIAS	100	99.992	-0.0115
27	20	HDR UNBIAS	100	99.993	-0.0097
28	20	HDR UNBIAS	100	99.992	-0.0082
29	20	HDR UNBIAS	100	99.993	-0.0097
30	20	HDR UNBIAS	100	99.993	-0.01
31	30	HDR BIAS	100	99.994	-0.0063
32	30	HDR BIAS	99.95	99.992	0.0414
33	30	HDR BIAS	100	99.994	-0.0097
34	30	HDR BIAS	100	99.993	-0.0079
35	30	HDR BIAS	100	99.994	-0.0076
36	30	HDR UNBIAS	100	99.993	-0.0109
37	30	HDR UNBIAS	100	99.992	-0.0099
38	30	HDR UNBIAS	100	99.993	-0.0087
39	30	HDR UNBIAS	100	99.995	-0.0062
40	30	HDR UNBIAS	100	99.994	-0.0068
41	50	HDR BIAS	100	99.993	-0.0092
42	50	HDR BIAS	100	99.994	-0.0078
43	50	HDR BIAS	100	99.995	-0.0083
44	50	HDR BIAS	100	99.992	-0.0093
45	50	HDR BIAS	100	99.993	-0.0106
46	50	HDR UNBIAS	100	99.993	-0.0103
47	50	HDR UNBIAS	100	99.991	-0.0103
48	50	HDR UNBIAS	100	99.995	-0.0081
49	50	HDR UNBIAS	100	99.994	-0.0091
50	50	HDR UNBIAS	100	99.994	-0.0085
71	0	CORRELATION	100	99.992	-0.0111
72	0	CORRELATION	100	99.992	-0.0093
73	0	CORRELATION	100	99.995	-0.0049

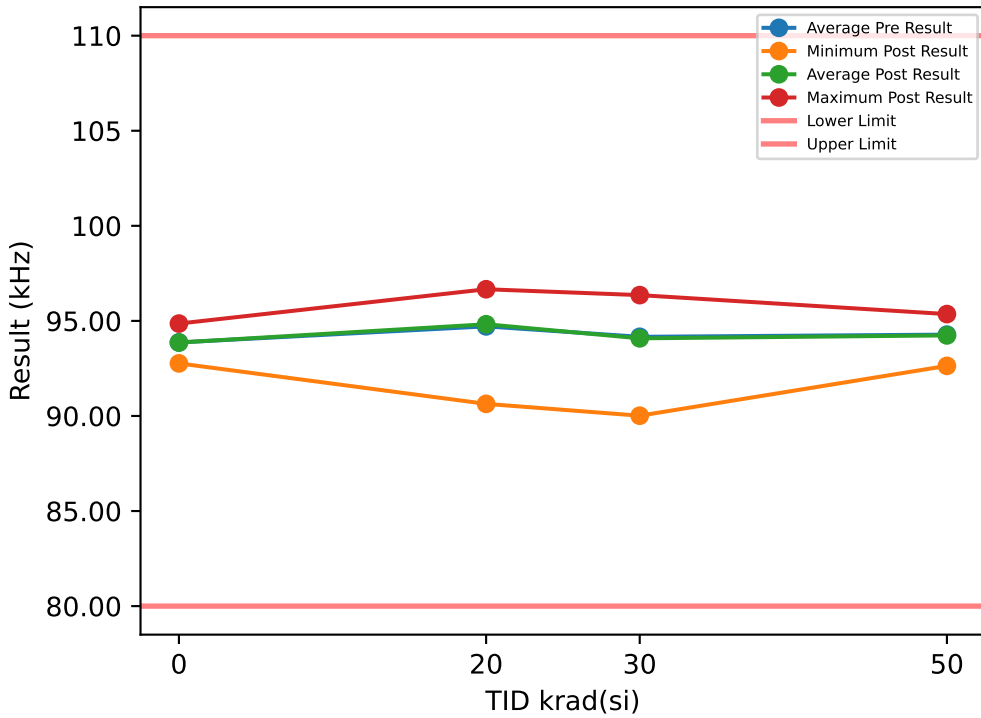
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0.0015044	99.992	99.993	99.995	0.0018193	-0.0111	-0.0084333	-0.0049	0.0031896
20	100	100	100	0.00090652	99.992	99.993	99.995	0.0011513	-0.0115	-0.00921	-0.0072	0.0013699
30	99.95	99.997	100	0.016272	99.992	99.993	99.995	0.00097502	-0.0109	-0.00326	0.0414	0.015772
50	100	100	100	0.0008925	99.991	99.993	99.995	0.0012367	-0.0106	-0.00915	-0.0078	0.00099135

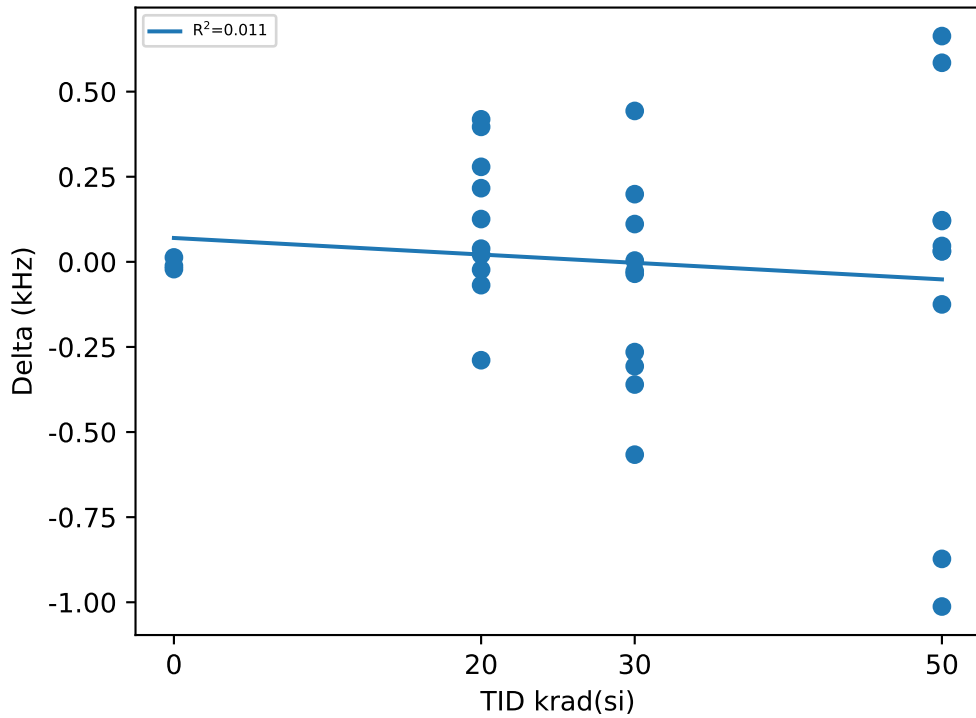
TID vs Result Stats



Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	96.688	96.665	-0.0231
22	20	HDR BIAS	93.703	93.413	-0.289
23	20	HDR BIAS	95.616	96.035	0.4187
24	20	HDR BIAS	90.615	90.636	0.021
25	20	HDR BIAS	95.398	95.524	0.1257
26	20	HDR UNBIAS	95.324	95.603	0.2791
27	20	HDR UNBIAS	93.63	94.027	0.3965
28	20	HDR UNBIAS	94.092	94.308	0.2164
29	20	HDR UNBIAS	95.586	95.624	0.0387
30	20	HDR UNBIAS	96.467	96.398	-0.0685
31	30	HDR BIAS	93.767	94.21	0.4433
32	30	HDR BIAS	96.245	96.356	0.111
33	30	HDR BIAS	93.39	93.355	-0.035
34	30	HDR BIAS	90.374	90.014	-0.3604
35	30	HDR BIAS	95.259	94.993	-0.2651
36	30	HDR UNBIAS	94.96	94.933	-0.027
37	30	HDR UNBIAS	94.805	95.003	0.1988
38	30	HDR UNBIAS	92.908	92.911	0.0038
39	30	HDR UNBIAS	95.936	95.629	-0.3066
40	30	HDR UNBIAS	93.99	93.423	-0.5664
41	50	HDR BIAS	93.828	93.703	-0.125
42	50	HDR BIAS	96.109	95.236	-0.8726
43	50	HDR BIAS	92.603	92.635	0.0317
44	50	HDR BIAS	94.944	94.974	0.0308
45	50	HDR BIAS	92.623	92.746	0.1223
46	50	HDR UNBIAS	95.239	95.359	0.12
47	50	HDR UNBIAS	94.187	94.234	0.0466
48	50	HDR UNBIAS	95.391	94.378	-1.0125
49	50	HDR UNBIAS	93.424	94.087	0.6632
50	50	HDR UNBIAS	94.434	95.019	0.5848
71	0	CORRELATION	92.752	92.765	0.013
72	0	CORRELATION	93.981	93.96	-0.0214
73	0	CORRELATION	94.871	94.859	-0.0119

TID vs Post - Pre Exposure Delta

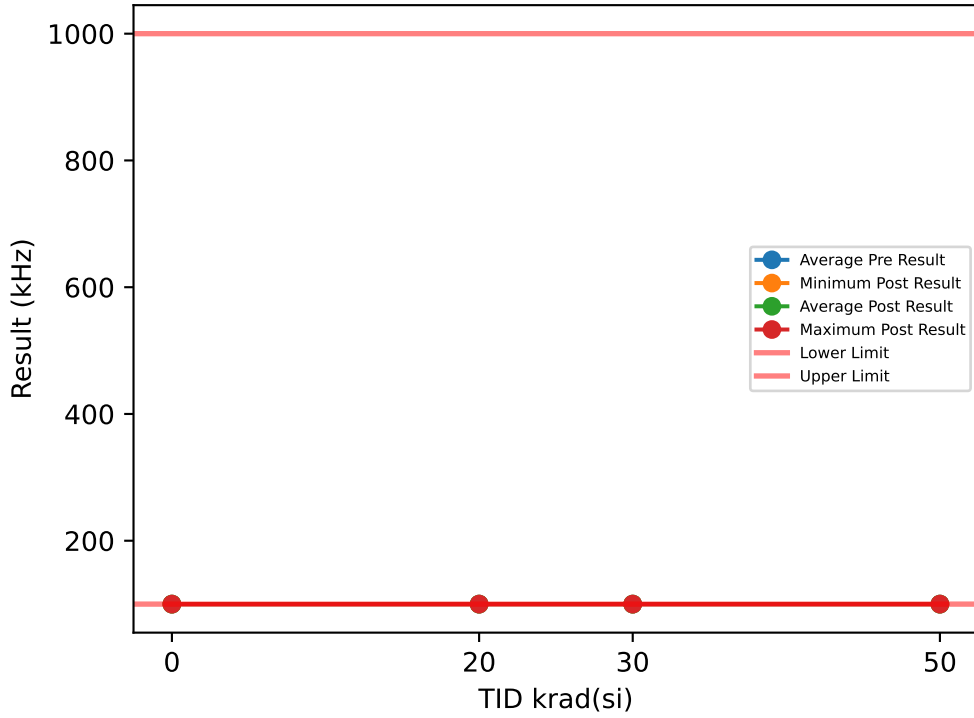


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.752	93.868	94.871	1.0639	92.765	93.861	94.859	1.0504	-0.0214	-0.0067667	0.013	0.017765
20	90.615	94.712	96.688	1.7878	90.636	94.823	96.665	1.8104	-0.289	0.11155	0.4187	0.22093
30	90.374	94.163	96.245	1.7139	90.014	94.083	96.356	1.7909	-0.5664	-0.08036	0.4433	0.29828
50	92.603	94.278	96.109	1.1768	92.635	94.237	95.359	0.97359	-1.0125	-0.04107	0.6632	0.53755

Device Test: 20.24 LEVEL|FREQ/SYNC/12/12/0/0/5/100kHz//@FREQ\_SYNC\_EXT

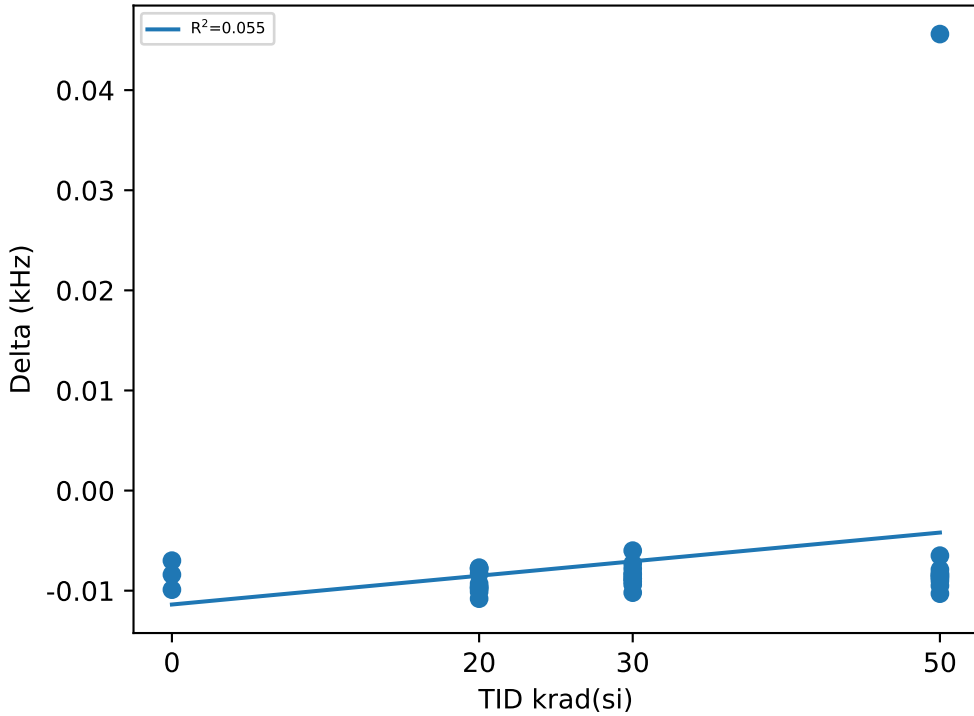
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	99.993	-0.0108
22	20	HDR BIAS	100	99.993	-0.0078
23	20	HDR BIAS	100	99.992	-0.0096
24	20	HDR BIAS	100	99.993	-0.0101
25	20	HDR BIAS	100	99.992	-0.0098
26	20	HDR UNBIAS	100	99.992	-0.0093
27	20	HDR UNBIAS	100	99.993	-0.0097
28	20	HDR UNBIAS	100	99.993	-0.0077
29	20	HDR UNBIAS	100	99.993	-0.0083
30	20	HDR UNBIAS	100	99.993	-0.0078
31	30	HDR BIAS	100	99.993	-0.0091
32	30	HDR BIAS	100	99.994	-0.0078
33	30	HDR BIAS	100	99.994	-0.0084
34	30	HDR BIAS	100	99.995	-0.006
35	30	HDR BIAS	100	99.992	-0.0088
36	30	HDR UNBIAS	100	99.995	-0.0073
37	30	HDR UNBIAS	100	99.992	-0.0094
38	30	HDR UNBIAS	100	99.993	-0.0088
39	30	HDR UNBIAS	100	99.993	-0.0102
40	30	HDR UNBIAS	100	99.994	-0.0083
41	50	HDR BIAS	100	99.992	-0.0095
42	50	HDR BIAS	100	99.993	-0.0084
43	50	HDR BIAS	100	99.993	-0.0079
44	50	HDR BIAS	100	99.994	-0.0083
45	50	HDR BIAS	100	99.995	-0.0065
46	50	HDR UNBIAS	100	99.993	-0.0087
47	50	HDR UNBIAS	100	99.992	-0.0086
48	50	HDR UNBIAS	99.95	99.995	0.0456
49	50	HDR UNBIAS	100	99.994	-0.009
50	50	HDR UNBIAS	100	99.993	-0.0103
71	0	CORRELATION	100	99.994	-0.0084
72	0	CORRELATION	100	99.993	-0.0099
73	0	CORRELATION	100	99.993	-0.007

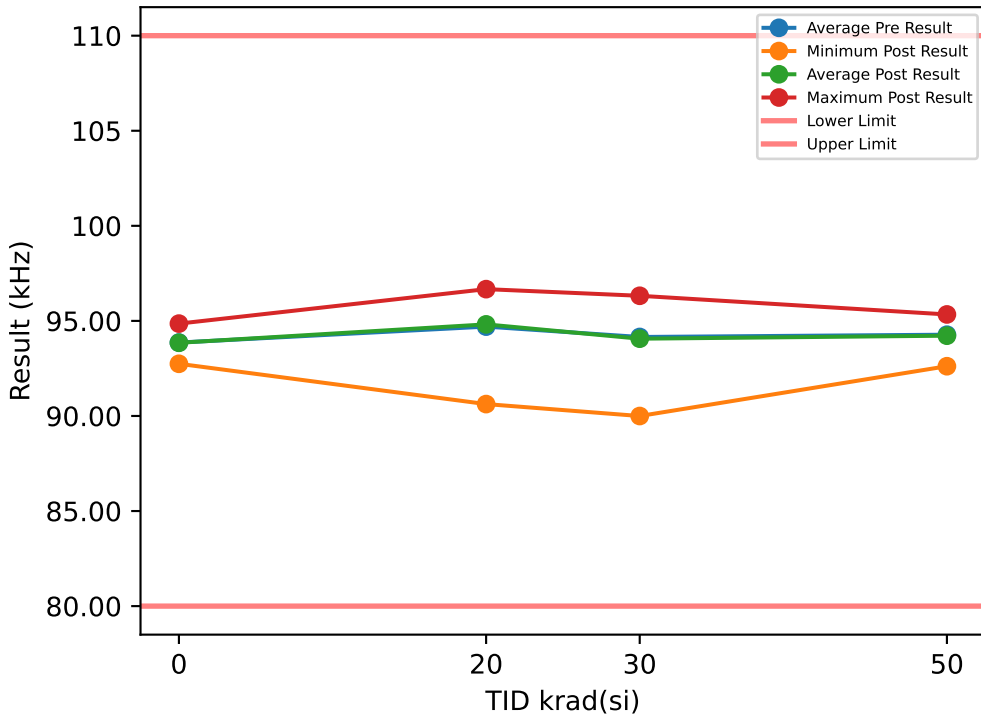
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0.0011372	99.993	99.993	99.994	0.00047258	-0.0099	-0.0084333	-0.007	0.0014503
20	100	100	100	0.0012419	99.992	99.993	99.993	0.00064773	-0.0108	-0.00909	-0.0077	0.001106
30	100	100	100	0.00076456	99.992	99.993	99.995	0.00085088	-0.0102	-0.00841	-0.006	0.0011733
50	99.95	99.996	100	0.016495	99.992	99.993	99.995	0.0012074	-0.0103	-0.00316	0.0456	0.017161

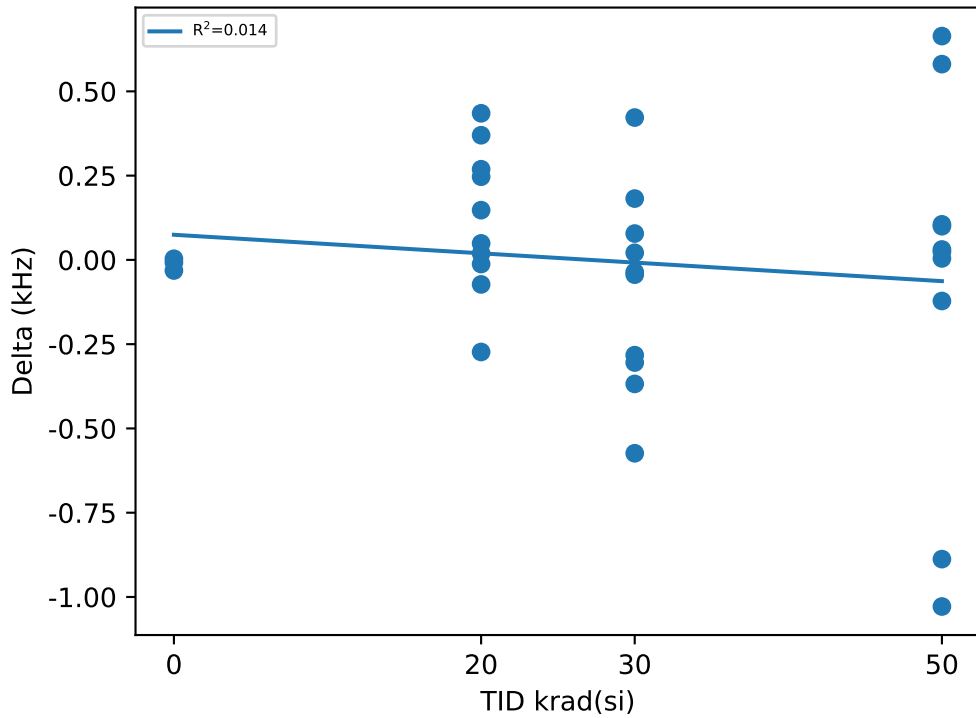
TID vs Result Stats



Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	96.682	96.67	-0.0123
22	20	HDR BIAS	93.685	93.412	-0.2732
23	20	HDR BIAS	95.6	96.034	0.4349
24	20	HDR BIAS	90.606	90.625	0.0192
25	20	HDR BIAS	95.367	95.515	0.1476
26	20	HDR UNBIAS	95.32	95.589	0.269
27	20	HDR UNBIAS	93.629	93.999	0.3698
28	20	HDR UNBIAS	94.066	94.313	0.2468
29	20	HDR UNBIAS	95.573	95.622	0.049
30	20	HDR UNBIAS	96.464	96.392	-0.0727
31	30	HDR BIAS	93.749	94.171	0.4223
32	30	HDR BIAS	96.243	96.321	0.0782
33	30	HDR BIAS	93.383	93.339	-0.0438
34	30	HDR BIAS	90.365	89.997	-0.3679
35	30	HDR BIAS	95.248	94.965	-0.2826
36	30	HDR UNBIAS	94.945	94.909	-0.0361
37	30	HDR UNBIAS	94.8	94.982	0.1819
38	30	HDR UNBIAS	92.891	92.912	0.0211
39	30	HDR UNBIAS	95.926	95.622	-0.3045
40	30	HDR UNBIAS	93.998	93.425	-0.5737
41	50	HDR BIAS	93.837	93.715	-0.1219
42	50	HDR BIAS	96.116	95.228	-0.8877
43	50	HDR BIAS	92.612	92.616	0.0044
44	50	HDR BIAS	94.94	94.964	0.0241
45	50	HDR BIAS	92.625	92.731	0.1055
46	50	HDR UNBIAS	95.24	95.34	0.0999
47	50	HDR UNBIAS	94.186	94.217	0.0309
48	50	HDR UNBIAS	95.383	94.354	-1.0283
49	50	HDR UNBIAS	93.395	94.059	0.664
50	50	HDR UNBIAS	94.412	94.992	0.5808
71	0	CORRELATION	92.741	92.744	0.0034
72	0	CORRELATION	93.977	93.946	-0.0315
73	0	CORRELATION	94.865	94.857	-0.0078

TID vs Post - Pre Exposure Delta

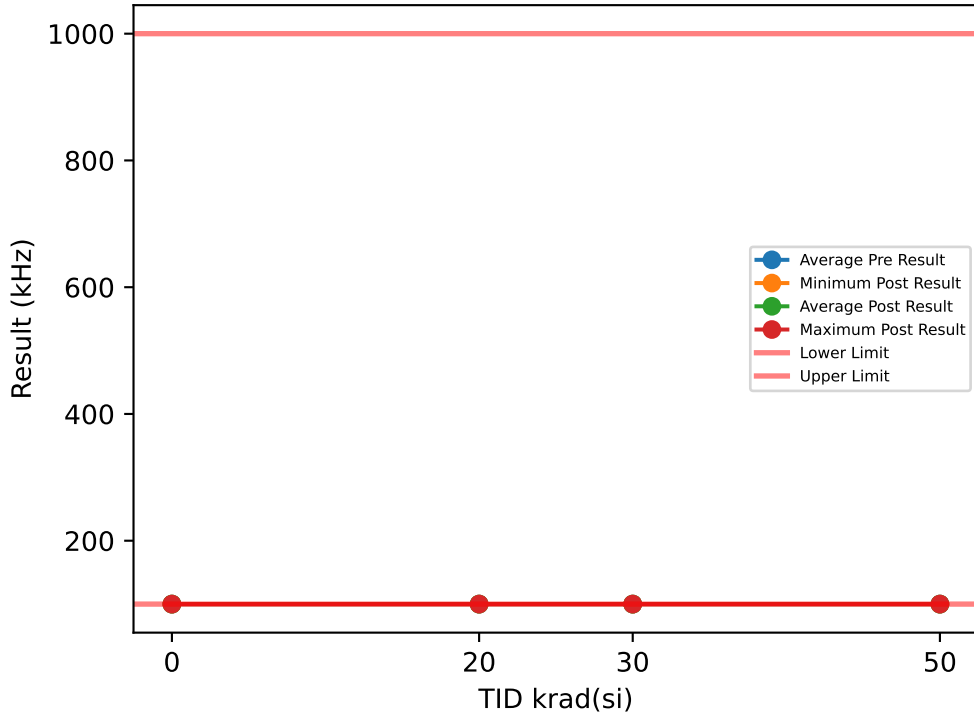


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.741	93.861	94.865	1.067	92.744	93.849	94.857	1.06	-0.0315	-0.011967	0.0034	0.017819
20	90.606	94.699	96.682	1.7883	90.625	94.817	96.67	1.8134	-0.2732	0.11781	0.4349	0.21731
30	90.365	94.155	96.243	1.7151	89.997	94.064	96.321	1.7856	-0.5737	-0.09051	0.4223	0.2937
50	92.612	94.274	96.116	1.1771	92.616	94.222	95.34	0.97235	-1.0283	-0.05283	0.664	0.54091



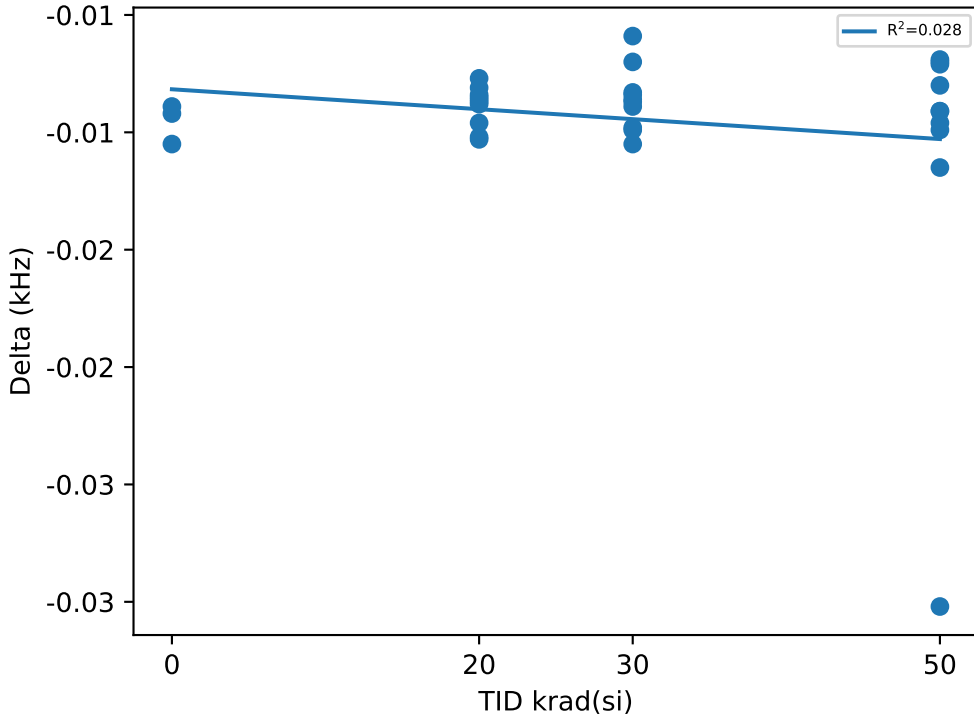
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	99.993	-0.0102
22	20	HDR BIAS	100	99.994	-0.0081
23	20	HDR BIAS	100	99.993	-0.0086
24	20	HDR BIAS	100	99.995	-0.0087
25	20	HDR BIAS	100	99.994	-0.0077
26	20	HDR UNBIAS	100	99.993	-0.0096
27	20	HDR UNBIAS	100	99.993	-0.0088
28	20	HDR UNBIAS	100	99.992	-0.0103
29	20	HDR UNBIAS	100	99.993	-0.0084
30	20	HDR UNBIAS	100	99.994	-0.0085
31	30	HDR BIAS	100	99.992	-0.0084
32	30	HDR BIAS	100	99.992	-0.0105
33	30	HDR BIAS	100	99.993	-0.0089
34	30	HDR BIAS	100	99.994	-0.007
35	30	HDR BIAS	100	99.992	-0.0098
36	30	HDR UNBIAS	100	99.993	-0.0087
37	30	HDR UNBIAS	100	99.994	-0.0059
38	30	HDR UNBIAS	100	99.993	-0.0099
39	30	HDR UNBIAS	100	99.995	-0.0083
40	30	HDR UNBIAS	100	99.993	-0.0086
41	50	HDR BIAS	100	99.993	-0.0091
42	50	HDR BIAS	100	99.994	-0.0069
43	50	HDR BIAS	100	99.993	-0.0091
44	50	HDR BIAS	100	99.992	-0.0096
45	50	HDR BIAS	100	99.995	-0.0071
46	50	HDR UNBIAS	100	99.994	-0.007
47	50	HDR UNBIAS	100	99.972	-0.0302
48	50	HDR UNBIAS	100	99.993	-0.008
49	50	HDR UNBIAS	100	99.992	-0.0099
50	50	HDR UNBIAS	100	99.991	-0.0115
71	0	CORRELATION	100	99.992	-0.0105
72	0	CORRELATION	100	99.993	-0.0089
73	0	CORRELATION	100	99.993	-0.0092

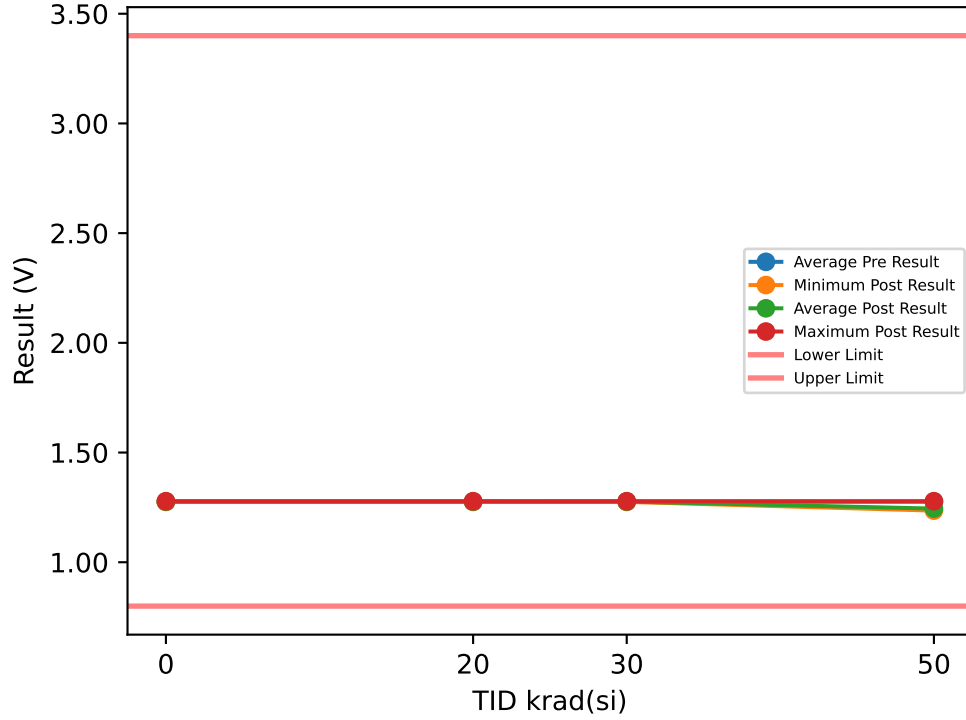
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0.00047258	99.992	99.993	99.993	0.00055678	-0.0105	-0.0095333	-0.0089	0.00085049
20	100	100	100	0.00072641	99.992	99.993	99.995	0.000751	-0.0103	-0.00889	-0.0077	0.00086724
30	100	100	100	0.0010646	99.992	99.993	99.995	0.0010761	-0.0105	-0.0086	-0.0059	0.0013671
50	100	100	100	0.00063078	99.972	99.991	99.995	0.0067016	-0.0302	-0.01084	-0.0069	0.0069606

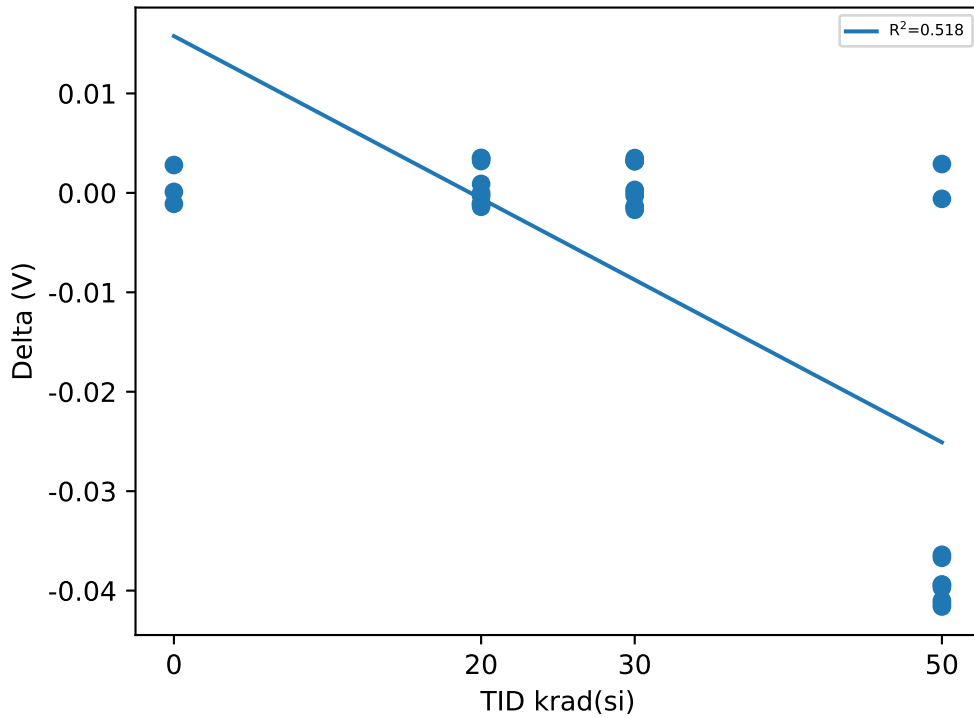
TID vs Result Stats



Test Results (Lower Limit = 0.8, Upper Limit = 3.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2765	1.2751	-0.0014
22	20	HDR BIAS	1.2747	1.2782	0.0035
23	20	HDR BIAS	1.2754	1.2763	0.0009
24	20	HDR BIAS	1.2765	1.2754	-0.0011
25	20	HDR BIAS	1.275	1.2782	0.0032
26	20	HDR UNBIAS	1.2757	1.2754	-0.0003
27	20	HDR UNBIAS	1.2765	1.2754	-0.0011
28	20	HDR UNBIAS	1.2747	1.2782	0.0035
29	20	HDR UNBIAS	1.2757	1.2757	0
30	20	HDR UNBIAS	1.2765	1.2754	-0.0011
31	30	HDR BIAS	1.2747	1.2782	0.0035
32	30	HDR BIAS	1.2757	1.2754	-0.0003
33	30	HDR BIAS	1.2768	1.2751	-0.0017
34	30	HDR BIAS	1.275	1.2782	0.0032
35	30	HDR BIAS	1.2757	1.2757	0
36	30	HDR UNBIAS	1.2765	1.2751	-0.0014
37	30	HDR UNBIAS	1.275	1.2782	0.0032
38	30	HDR UNBIAS	1.2757	1.276	0.0003
39	30	HDR UNBIAS	1.2768	1.2754	-0.0014
40	30	HDR UNBIAS	1.275	1.2782	0.0032
41	50	HDR BIAS	1.276	1.2754	-0.0006
42	50	HDR BIAS	1.2768	1.2355	-0.0413
43	50	HDR BIAS	1.2753	1.2782	0.0029
44	50	HDR BIAS	1.2757	1.2363	-0.0394
45	50	HDR BIAS	1.2768	1.2358	-0.041
46	50	HDR UNBIAS	1.275	1.2383	-0.0367
47	50	HDR UNBIAS	1.2754	1.236	-0.0394
48	50	HDR UNBIAS	1.2768	1.2352	-0.0416
49	50	HDR UNBIAS	1.275	1.2386	-0.0364
50	50	HDR UNBIAS	1.2757	1.236	-0.0397
71	0	CORRELATION	1.2754	1.2782	0.0028
72	0	CORRELATION	1.2768	1.2757	-0.0011
73	0	CORRELATION	1.275	1.2751	0.0001

TID vs Post - Pre Exposure Delta

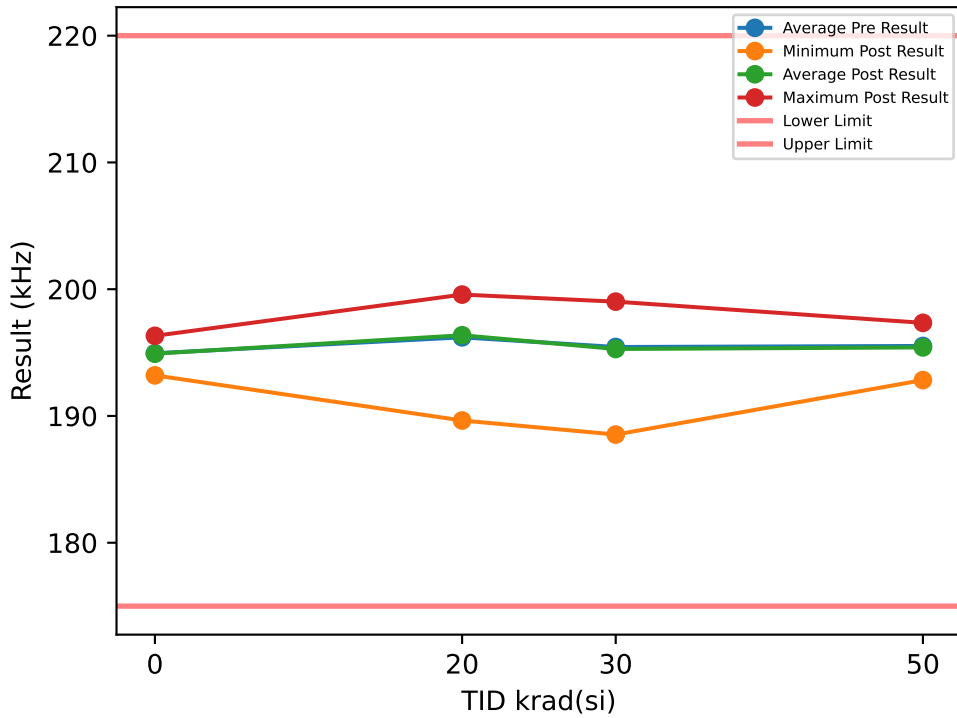


Test Statistics (V)

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	1.275	1.2757	1.2768	0.00094516	1.2751	1.2763	1.2782	0.0016442	-0.0011	0.0006	0.0028	0.0019975
20	1.2747	1.2757	1.2765	0.00075542	1.2751	1.2763	1.2782	0.0013275	-0.0014	0.00061	0.0035	0.0020415
30	1.2747	1.2757	1.2768	0.00078379	1.2751	1.2765	1.2782	0.001444	-0.0017	0.00086	0.0035	0.0021747
50	1.275	1.2758	1.2768	0.00072457	1.2352	1.2445	1.2782	0.017058	-0.0416	-0.03132	0.0029	0.017222

# Device Test: 20.31 LEVEL|FREQ/RT/4.5/4.5/0/0/4.5/200kHz//@FSW\_EXT\_RT\_B

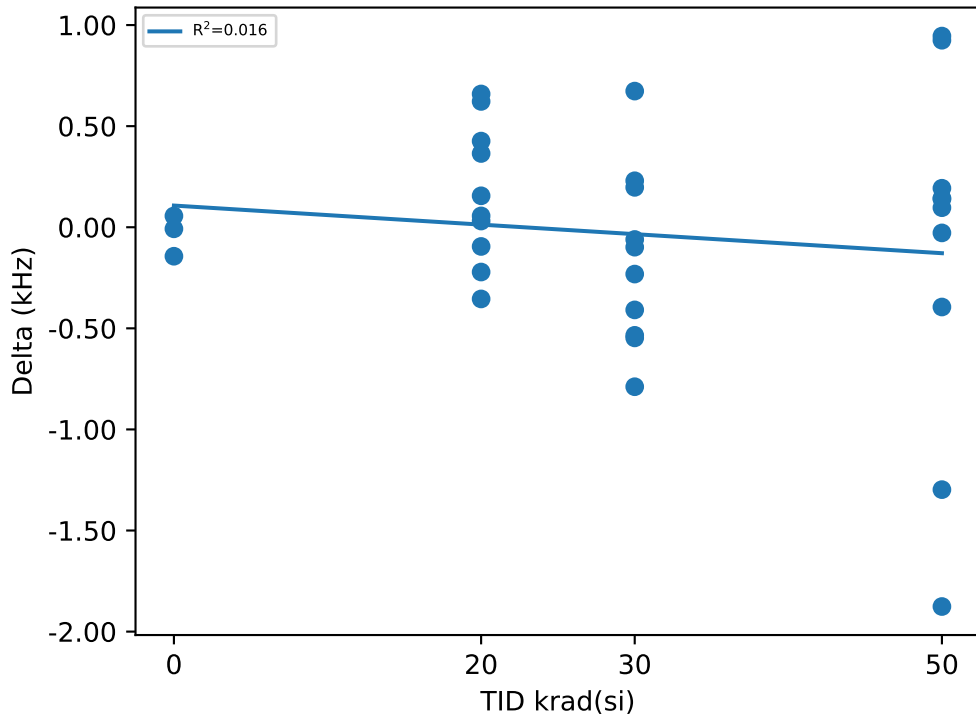
### TID vs Result Stats



### Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	199.67	199.58	-0.095
22	20	HDR BIAS	194.23	193.88	-0.3546
23	20	HDR BIAS	197.25	197.91	0.6592
24	20	HDR BIAS	189.61	189.64	0.0307
25	20	HDR BIAS	197.6	197.76	0.1555
26	20	HDR UNBIAS	197.28	197.64	0.3648
27	20	HDR UNBIAS	194.14	194.76	0.6223
28	20	HDR UNBIAS	195.54	195.96	0.4261
29	20	HDR UNBIAS	197.78	197.84	0.0561
30	20	HDR UNBIAS	198.92	198.7	-0.2215
31	30	HDR BIAS	194.48	195.15	0.6734
32	30	HDR BIAS	198.82	199.02	0.1973
33	30	HDR BIAS	194.09	193.86	-0.2316
34	30	HDR BIAS	189.07	188.53	-0.5346
35	30	HDR BIAS	197.11	196.57	-0.5473
36	30	HDR UNBIAS	197.02	196.92	-0.0986
37	30	HDR UNBIAS	196.3	196.53	0.2299
38	30	HDR UNBIAS	193.87	193.81	-0.0605
39	30	HDR UNBIAS	198.52	198.11	-0.4088
40	30	HDR UNBIAS	195.13	194.34	-0.7888
41	50	HDR BIAS	194.9	194.5	-0.3945
42	50	HDR BIAS	198.04	196.75	-1.2978
43	50	HDR BIAS	192.64	192.83	0.1929
44	50	HDR BIAS	196.69	196.79	0.0967
45	50	HDR BIAS	192.88	193.03	0.1438
46	50	HDR UNBIAS	196.84	196.98	0.1395
47	50	HDR UNBIAS	195.49	195.46	-0.028
48	50	HDR UNBIAS	196.8	194.93	-1.8759
49	50	HDR UNBIAS	194.52	195.47	0.9455
50	50	HDR UNBIAS	196.42	197.35	0.9249
71	0	CORRELATION	193.21	193.2	-0.0078
72	0	CORRELATION	195.36	195.22	-0.1434
73	0	CORRELATION	196.27	196.32	0.0559

### TID vs Post - Pre Exposure Delta

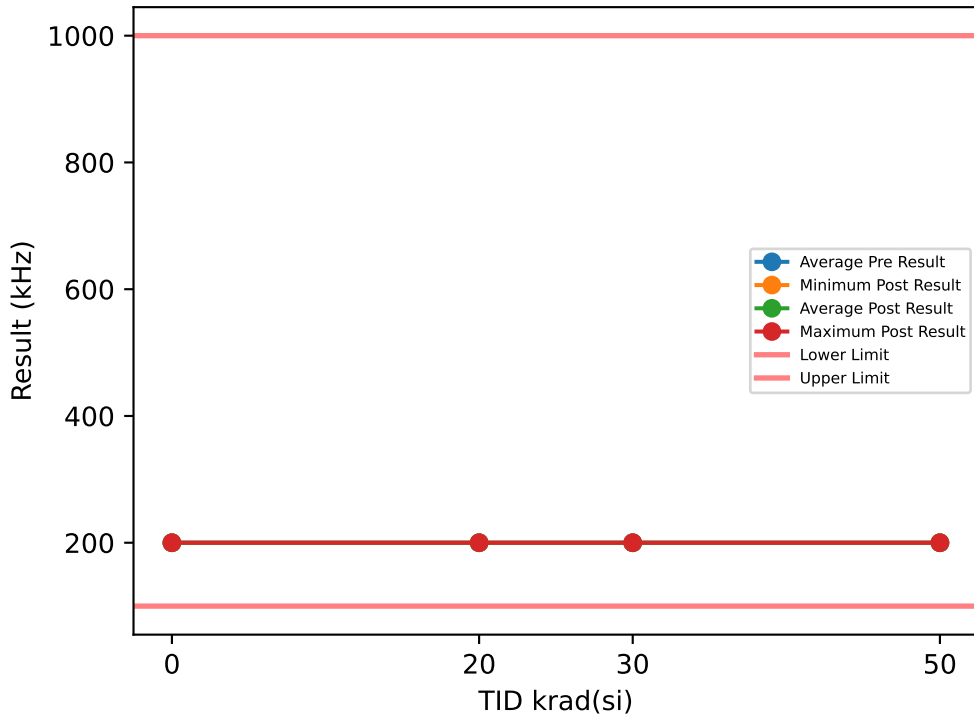


### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.21	194.95	196.27	1.5685	193.2	194.92	196.32	1.5806	-0.1434	-0.031767	0.0559	0.10179
20	189.61	196.2	199.67	2.9471	189.64	196.37	199.58	2.9443	-0.3546	0.16436	0.6592	0.34615
30	189.07	195.44	198.82	2.8451	188.53	195.28	199.02	2.9531	-0.7888	-0.15696	0.6734	0.43977
50	192.64	195.52	198.04	1.7828	192.83	195.41	197.35	1.6095	-1.8759	-0.11529	0.9455	0.88587

# Device Test: 20.32 LEVEL|FREQ/SYNC/4.5/4.5/0/0/4.5/200kHz//@FREQ\_SYNC\_EXT

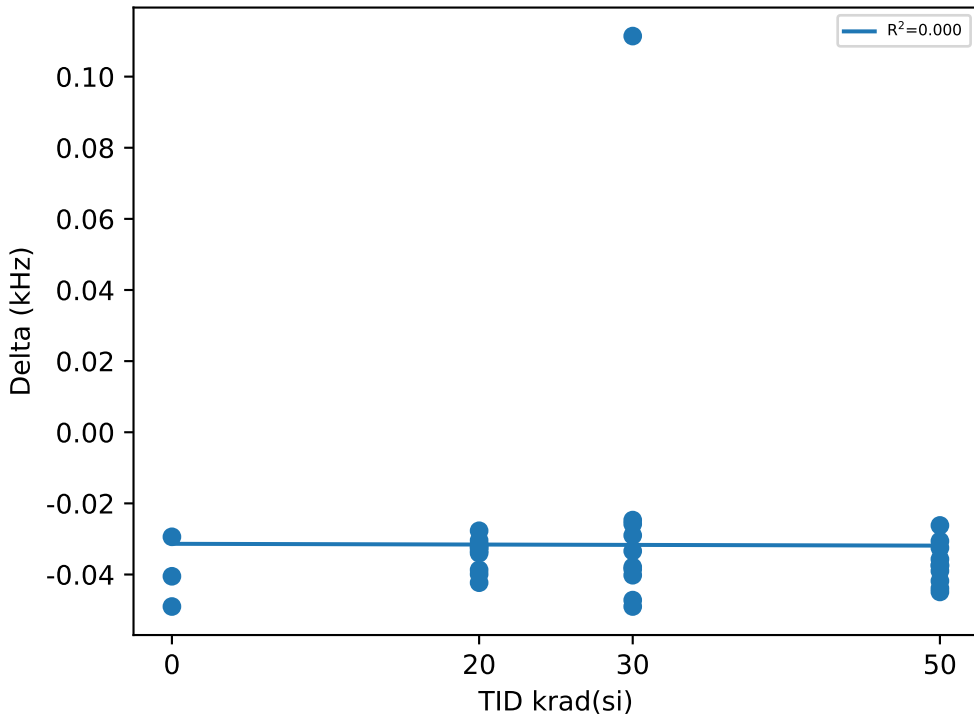
### TID vs Result Stats



### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	200.01	199.97	-0.0399
22	20	HDR BIAS	200	199.97	-0.0325
23	20	HDR BIAS	200.01	199.98	-0.0304
24	20	HDR BIAS	200.01	199.97	-0.0334
25	20	HDR BIAS	200.01	199.98	-0.0323
26	20	HDR UNBIAS	200	199.97	-0.0387
27	20	HDR UNBIAS	200.01	199.98	-0.034
28	20	HDR UNBIAS	200.01	199.97	-0.0423
29	20	HDR UNBIAS	200.01	199.97	-0.0315
30	20	HDR UNBIAS	200.01	199.98	-0.0277
31	30	HDR BIAS	200	199.98	-0.0258
32	30	HDR BIAS	200.01	199.97	-0.0472
33	30	HDR BIAS	200.01	199.98	-0.0334
34	30	HDR BIAS	200.01	199.97	-0.0402
35	30	HDR BIAS	200.01	199.98	-0.0379
36	30	HDR UNBIAS	200.01	199.98	-0.0247
37	30	HDR UNBIAS	200	199.97	-0.029
38	30	HDR UNBIAS	200.02	199.97	-0.049
39	30	HDR UNBIAS	200.01	199.97	-0.0385
40	30	HDR UNBIAS	199.87	199.98	0.1114
41	50	HDR BIAS	200.01	199.97	-0.0418
42	50	HDR BIAS	200	199.97	-0.0306
43	50	HDR BIAS	200.01	199.98	-0.0325
44	50	HDR BIAS	200.01	199.97	-0.0439
45	50	HDR BIAS	200.01	199.98	-0.0262
46	50	HDR UNBIAS	200.01	199.97	-0.0374
47	50	HDR UNBIAS	200	199.97	-0.039
48	50	HDR UNBIAS	200.01	199.97	-0.0357
49	50	HDR UNBIAS	200.01	199.97	-0.0375
50	50	HDR UNBIAS	200.01	199.97	-0.0449
71	0	CORRELATION	200.01	199.97	-0.0405
72	0	CORRELATION	200.01	199.96	-0.049
73	0	CORRELATION	200.01	199.98	-0.0294

### TID vs Post - Pre Exposure Delta

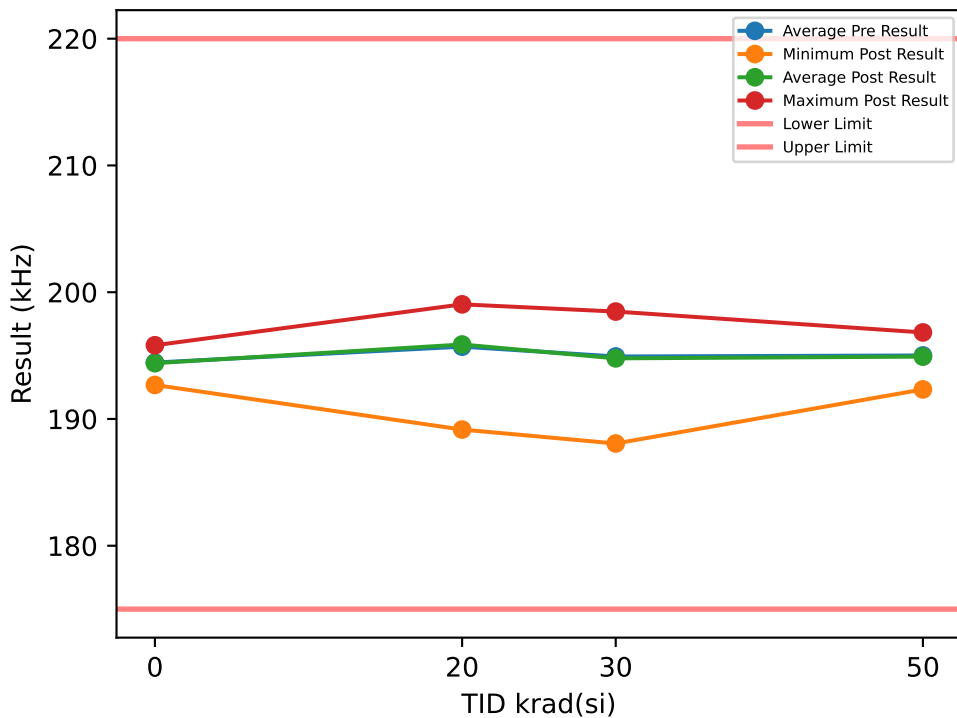


### Test Statistics (kHz)

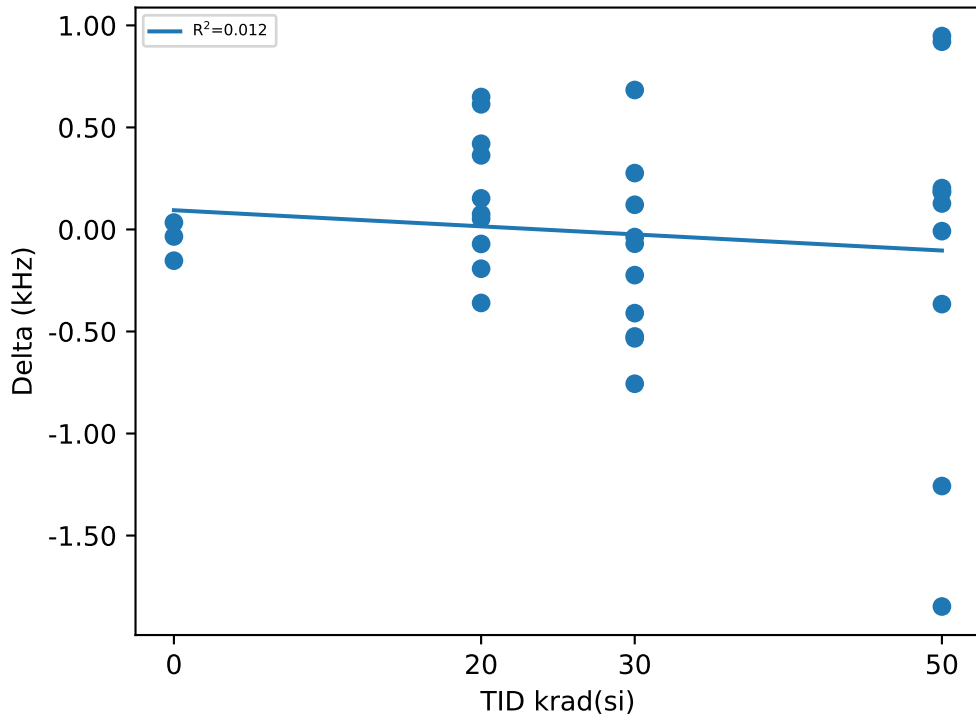
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200.01	200.01	200.01	0.0024583	199.96	199.97	199.98	0.0074115	-0.049	-0.039633	-0.0294	0.0098287
20	200	200.01	200.01	0.0036658	199.97	199.97	199.98	0.0045058	-0.0423	-0.03427	-0.0277	0.0045882
30	199.87	200	200.02	0.045951	199.97	199.97	199.98	0.0052484	-0.049	-0.02143	0.1114	0.047391
50	200	200.01	200.01	0.0028021	199.97	199.97	199.98	0.0046164	-0.0449	-0.03695	-0.0262	0.0059347

# Device Test: 20.33 LEVEL|FREQ/RT/5/5/0/0/5/200kHz//@FSW\_EXT\_RT\_B

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



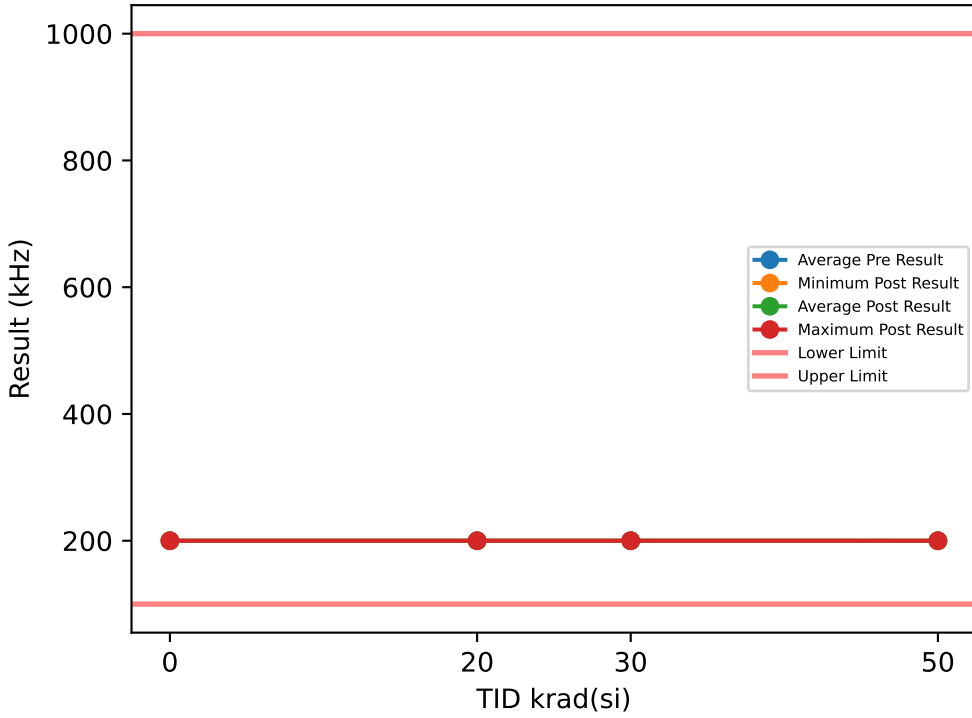
### Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	199.11	199.04	-0.071
22	20	HDR BIAS	193.76	193.4	-0.3601
23	20	HDR BIAS	196.77	197.41	0.6491
24	20	HDR BIAS	189.11	189.16	0.0523
25	20	HDR BIAS	197.07	197.22	0.1523
26	20	HDR UNBIAS	196.77	197.13	0.363
27	20	HDR UNBIAS	193.71	194.32	0.6132
28	20	HDR UNBIAS	195.03	195.45	0.4201
29	20	HDR UNBIAS	197.31	197.38	0.0748
30	20	HDR UNBIAS	198.41	198.21	-0.1924
31	30	HDR BIAS	193.95	194.63	0.6834
32	30	HDR BIAS	198.35	198.47	0.1209
33	30	HDR BIAS	193.59	193.37	-0.2238
34	30	HDR BIAS	188.59	188.07	-0.5244
35	30	HDR BIAS	196.59	196.06	-0.5336
36	30	HDR UNBIAS	196.52	196.45	-0.0699
37	30	HDR UNBIAS	195.77	196.04	0.2762
38	30	HDR UNBIAS	193.34	193.31	-0.0373
39	30	HDR UNBIAS	197.98	197.57	-0.41
40	30	HDR UNBIAS	194.61	193.85	-0.7561
41	50	HDR BIAS	194.36	193.99	-0.3658
42	50	HDR BIAS	197.5	196.24	-1.2573
43	50	HDR BIAS	192.13	192.33	0.2027
44	50	HDR BIAS	196.17	196.3	0.1272
45	50	HDR BIAS	192.39	192.58	0.183
46	50	HDR UNBIAS	196.35	196.54	0.1856
47	50	HDR UNBIAS	195.03	195.03	-0.0083
48	50	HDR UNBIAS	196.29	194.44	-1.8477
49	50	HDR UNBIAS	193.96	194.91	0.9476
50	50	HDR UNBIAS	195.91	196.83	0.9199
71	0	CORRELATION	192.72	192.68	-0.0344
72	0	CORRELATION	194.86	194.7	-0.153
73	0	CORRELATION	195.78	195.81	0.0338

### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	192.72	194.45	195.78	1.5719	192.68	194.4	195.81	1.5882	-0.153	-0.0512	0.0338	0.094526
20	189.11	195.7	199.11	2.9307	189.16	195.87	199.04	2.9306	-0.3601	0.17013	0.6491	0.33655
30	188.59	194.93	198.35	2.8396	188.07	194.78	198.47	2.9358	-0.7561	-0.14746	0.6834	0.43415
50	192.13	195.01	197.5	1.778	192.33	194.92	196.83	1.6048	-1.8477	-0.09131	0.9476	0.87653

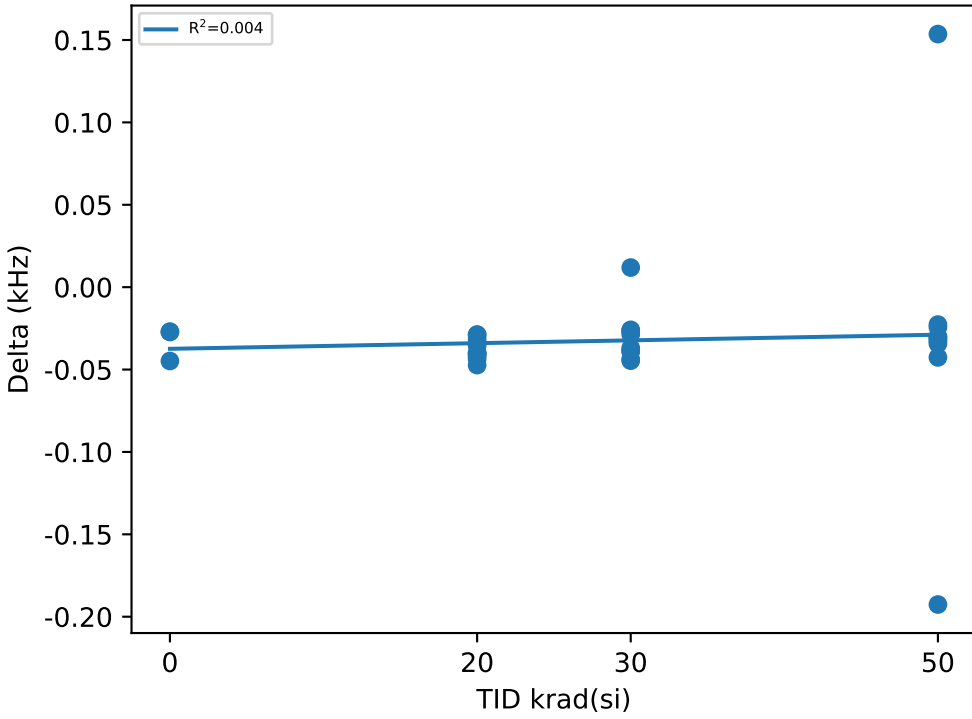
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	200.01	199.97	-0.0355
22	20	HDR BIAS	200	199.97	-0.0288
23	20	HDR BIAS	200.02	199.97	-0.0435
24	20	HDR BIAS	200.01	199.98	-0.0289
25	20	HDR BIAS	200	199.97	-0.0316
26	20	HDR UNBIAS	200.01	199.97	-0.0473
27	20	HDR UNBIAS	200.01	199.97	-0.0397
28	20	HDR UNBIAS	200.01	199.97	-0.0416
29	20	HDR UNBIAS	200.01	199.97	-0.0407
30	20	HDR UNBIAS	200.01	199.97	-0.0403
31	30	HDR BIAS	200	199.98	-0.0259
32	30	HDR BIAS	200.01	199.97	-0.0438
33	30	HDR BIAS	200.01	199.97	-0.0391
34	30	HDR BIAS	200.01	199.97	-0.0386
35	30	HDR BIAS	200.01	199.97	-0.0446
36	30	HDR UNBIAS	200.01	199.98	-0.0286
37	30	HDR UNBIAS	200.01	199.97	-0.0369
38	30	HDR UNBIAS	199.96	199.97	0.0119
39	30	HDR UNBIAS	200.01	199.98	-0.0269
40	30	HDR UNBIAS	200	199.98	-0.0264
41	50	HDR BIAS	200.01	199.97	-0.0426
42	50	HDR BIAS	200	199.97	-0.0302
43	50	HDR BIAS	199.82	199.98	0.1536
44	50	HDR BIAS	200	199.81	-0.1926
45	50	HDR BIAS	200	199.98	-0.0227
46	50	HDR UNBIAS	200	199.98	-0.0243
47	50	HDR UNBIAS	200.01	199.98	-0.0328
48	50	HDR UNBIAS	200.01	199.97	-0.0317
49	50	HDR UNBIAS	200.01	199.98	-0.0343
50	50	HDR UNBIAS	200	199.97	-0.0301
71	0	CORRELATION	200	199.98	-0.027
72	0	CORRELATION	200.01	199.97	-0.0448
73	0	CORRELATION	200	199.97	-0.0272

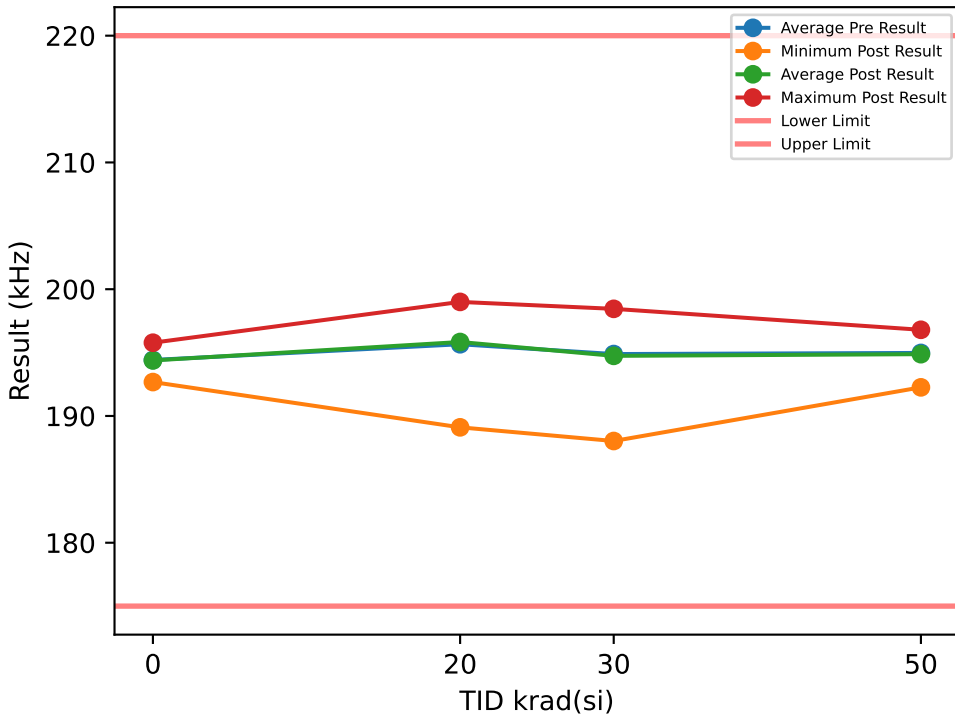
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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	200.01	200.01	0.0051029	199.97	199.97	199.98	0.0052915	-0.0448	-0.033	-0.027	0.01022
20	200	200.01	200.02	0.005565	199.97	199.97	199.98	0.0030862	-0.0473	-0.03779	-0.0288	0.0063192
30	199.96	200	200.01	0.014893	199.97	199.97	199.98	0.0048735	-0.0446	-0.02989	0.0119	0.016346
50	199.82	199.99	200.01	0.058202	199.81	199.96	199.98	0.051663	-0.1926	-0.02877	0.1536	0.081926

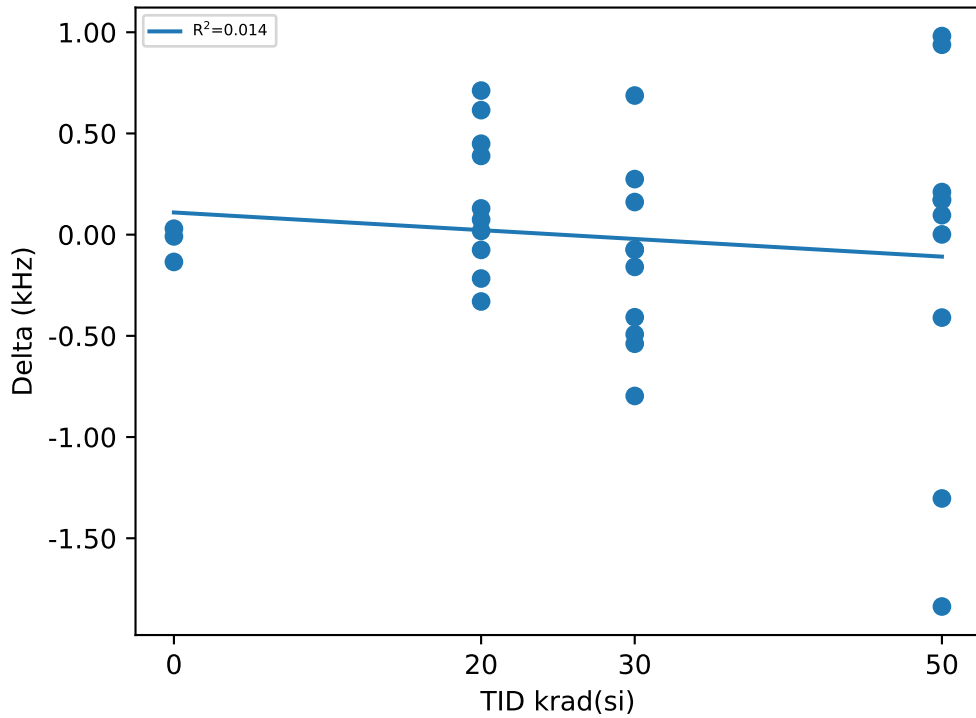
TID vs Result Stats



Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	199.07	199	-0.0754
22	20	HDR BIAS	193.73	193.4	-0.3302
23	20	HDR BIAS	196.68	197.39	0.7118
24	20	HDR BIAS	189.09	189.1	0.0183
25	20	HDR BIAS	197.02	197.15	0.1296
26	20	HDR UNBIAS	196.7	197.09	0.389
27	20	HDR UNBIAS	193.67	194.28	0.6152
28	20	HDR UNBIAS	194.99	195.43	0.4493
29	20	HDR UNBIAS	197.26	197.33	0.0746
30	20	HDR UNBIAS	198.38	198.16	-0.2168
31	30	HDR BIAS	193.88	194.57	0.6874
32	30	HDR BIAS	198.29	198.45	0.1611
33	30	HDR BIAS	193.54	193.38	-0.1593
34	30	HDR BIAS	188.56	188.02	-0.5389
35	30	HDR BIAS	196.55	196.06	-0.4923
36	30	HDR UNBIAS	196.48	196.41	-0.075
37	30	HDR UNBIAS	195.69	195.96	0.2745
38	30	HDR UNBIAS	193.31	193.24	-0.0728
39	30	HDR UNBIAS	197.93	197.52	-0.4081
40	30	HDR UNBIAS	194.6	193.81	-0.797
41	50	HDR BIAS	194.36	193.95	-0.4098
42	50	HDR BIAS	197.46	196.15	-1.3034
43	50	HDR BIAS	192.09	192.26	0.1728
44	50	HDR BIAS	196.16	196.25	0.0963
45	50	HDR BIAS	192.34	192.55	0.2105
46	50	HDR UNBIAS	196.34	196.51	0.1711
47	50	HDR UNBIAS	194.98	194.98	0.0012
48	50	HDR UNBIAS	196.26	194.42	-1.8373
49	50	HDR UNBIAS	193.9	194.88	0.9811
50	50	HDR UNBIAS	195.86	196.8	0.9383
71	0	CORRELATION	192.68	192.67	-0.0086
72	0	CORRELATION	194.82	194.69	-0.1348
73	0	CORRELATION	195.75	195.78	0.0294

TID vs Post - Pre Exposure Delta

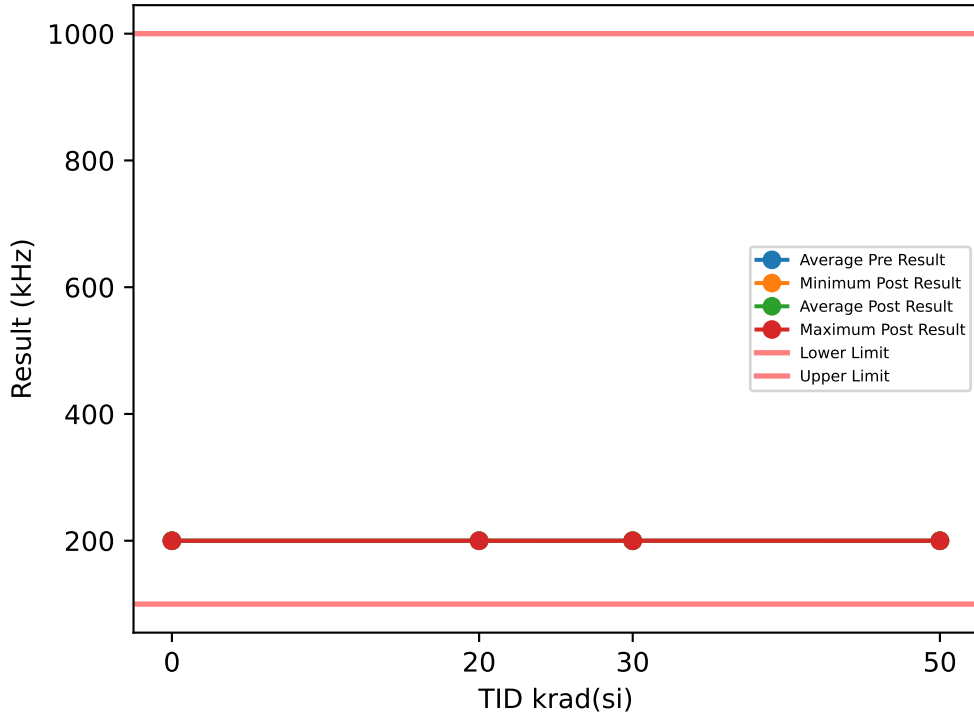


Test Statistics (kHz)

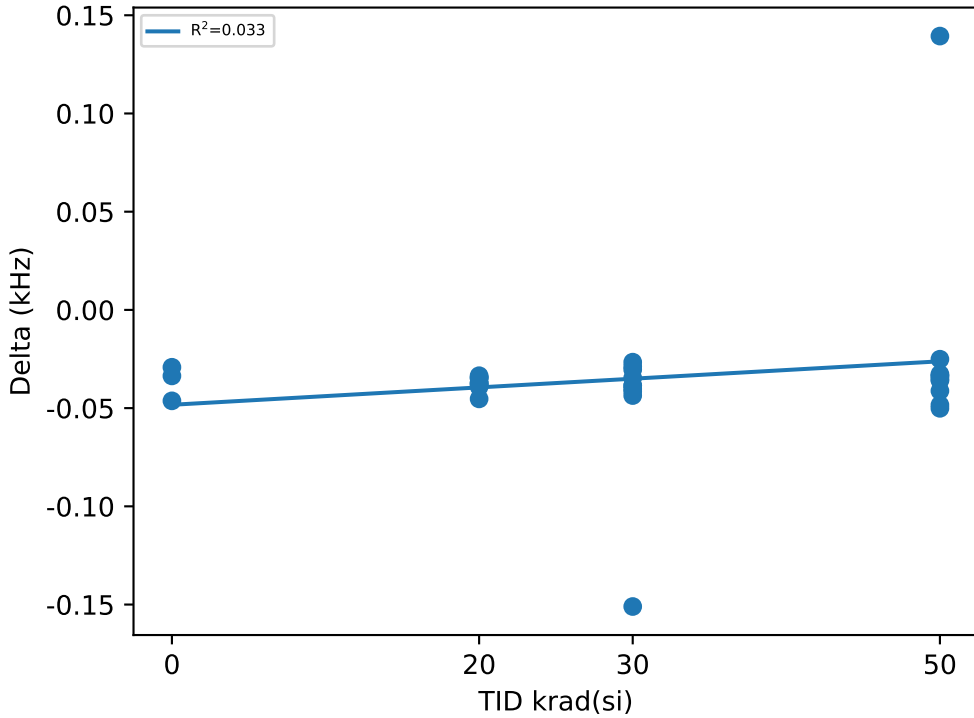
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	192.68	194.42	195.75	1.5726	192.67	194.38	195.78	1.5748	-0.1348	-0.038	0.0294	0.085957
20	189.09	195.66	199.07	2.9239	189.1	195.83	199	2.9286	-0.3302	0.17654	0.7118	0.35136
30	188.56	194.88	198.29	2.8315	188.02	194.74	198.45	2.9366	-0.797	-0.14204	0.6874	0.44006
50	192.09	194.97	197.46	1.7856	192.26	194.87	196.8	1.6074	-1.8373	-0.09792	0.9811	0.88834



TID vs Result Stats



TID vs Post - Pre Exposure Delta



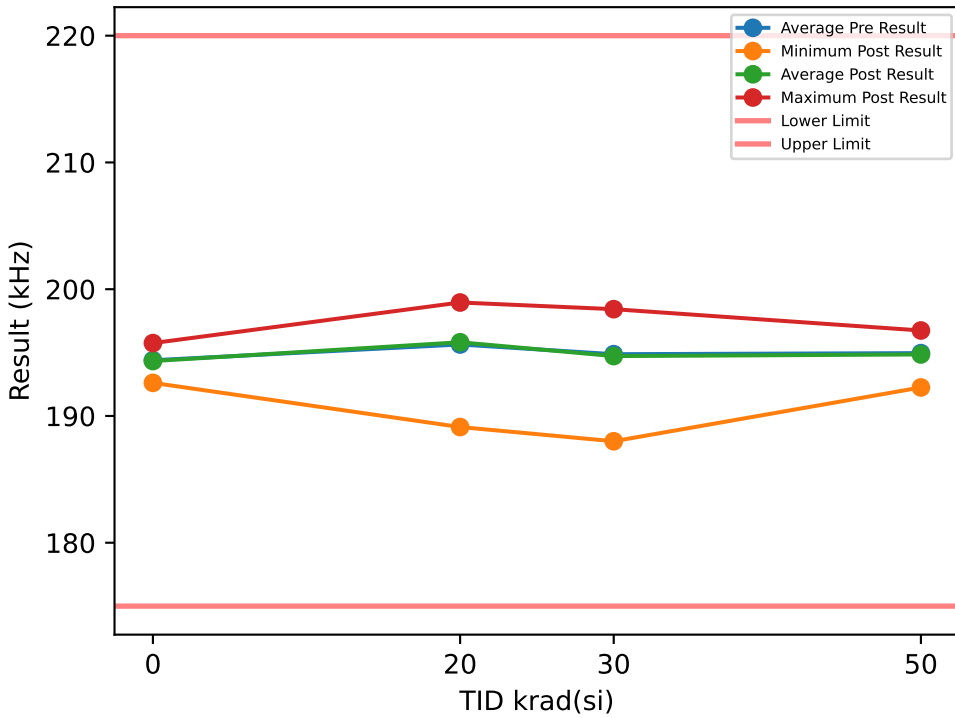
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	200.01	199.98	-0.0346
22	20	HDR BIAS	200.01	199.97	-0.0384
23	20	HDR BIAS	200.01	199.97	-0.0453
24	20	HDR BIAS	200.01	199.98	-0.0342
25	20	HDR BIAS	200.01	199.97	-0.0373
26	20	HDR UNBIAS	200	199.97	-0.0372
27	20	HDR UNBIAS	200.01	199.97	-0.0374
28	20	HDR UNBIAS	200.01	199.98	-0.0335
29	20	HDR UNBIAS	200.01	199.98	-0.0349
30	20	HDR UNBIAS	200.01	199.97	-0.0391
31	30	HDR BIAS	200.01	199.97	-0.0385
32	30	HDR BIAS	200.01	199.97	-0.0436
33	30	HDR BIAS	200.01	199.97	-0.0414
34	30	HDR BIAS	200	199.98	-0.0266
35	30	HDR BIAS	200	199.97	-0.0386
36	30	HDR UNBIAS	200.01	199.97	-0.0346
37	30	HDR UNBIAS	200	199.97	-0.0288
38	30	HDR UNBIAS	200.01	199.97	-0.0403
39	30	HDR UNBIAS	200.01	199.86	-0.151
40	30	HDR UNBIAS	200.01	199.98	-0.0304
41	50	HDR BIAS	200.02	199.97	-0.0501
42	50	HDR BIAS	200	199.98	-0.0251
43	50	HDR BIAS	200.01	199.97	-0.0354
44	50	HDR BIAS	200.01	199.96	-0.0484
45	50	HDR BIAS	200.01	199.98	-0.0338
46	50	HDR UNBIAS	200.01	199.98	-0.0327
47	50	HDR UNBIAS	200.01	199.97	-0.0335
48	50	HDR UNBIAS	200.01	199.97	-0.0359
49	50	HDR UNBIAS	200.01	199.97	-0.0412
50	50	HDR UNBIAS	199.83	199.97	0.1394
71	0	CORRELATION	200	199.97	-0.0336
72	0	CORRELATION	200.01	199.96	-0.0463
73	0	CORRELATION	200.01	199.98	-0.0292

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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	200.01	200.01	0.0032563	199.96	199.97	199.98	0.0067575	-0.0463	-0.036367	-0.0292	0.0088794
20	200	200.01	200.01	0.0032934	199.97	199.97	199.98	0.0050749	-0.0453	-0.03719	-0.0335	0.0034229
30	200	200.01	200.01	0.0032136	199.86	199.96	199.98	0.036681	-0.151	-0.04738	-0.0266	0.036851
50	199.83	199.99	200.02	0.056201	199.96	199.97	199.98	0.0045773	-0.0501	-0.01967	0.1394	0.056391

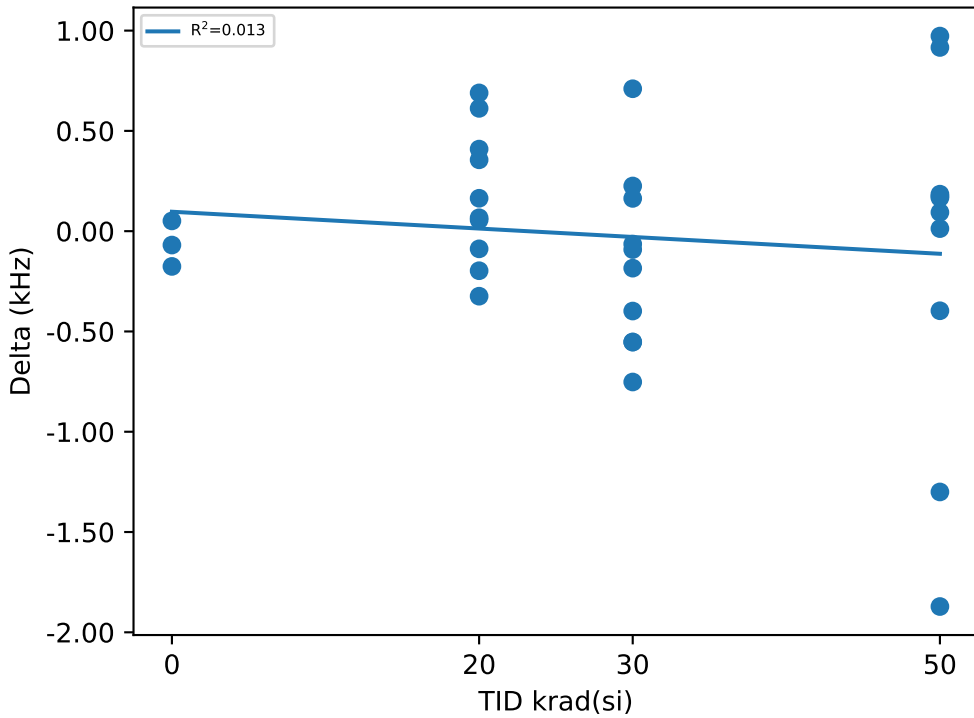
TID vs Result Stats



Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	199.04	198.95	-0.0881
22	20	HDR BIAS	193.7	193.37	-0.3242
23	20	HDR BIAS	196.68	197.37	0.6894
24	20	HDR BIAS	189.06	189.13	0.0668
25	20	HDR BIAS	197	197.16	0.1641
26	20	HDR UNBIAS	196.69	197.04	0.3558
27	20	HDR UNBIAS	193.66	194.27	0.6123
28	20	HDR UNBIAS	194.99	195.4	0.4092
29	20	HDR UNBIAS	197.23	197.29	0.0559
30	20	HDR UNBIAS	198.35	198.16	-0.1972
31	30	HDR BIAS	193.89	194.6	0.7101
32	30	HDR BIAS	198.26	198.43	0.1634
33	30	HDR BIAS	193.53	193.35	-0.1844
34	30	HDR BIAS	188.56	188.01	-0.5528
35	30	HDR BIAS	196.57	196.02	-0.5528
36	30	HDR UNBIAS	196.45	196.36	-0.0916
37	30	HDR UNBIAS	195.69	195.92	0.2253
38	30	HDR UNBIAS	193.3	193.23	-0.0642
39	30	HDR UNBIAS	197.92	197.52	-0.3982
40	30	HDR UNBIAS	194.56	193.81	-0.752
41	50	HDR BIAS	194.35	193.95	-0.3968
42	50	HDR BIAS	197.46	196.16	-1.3002
43	50	HDR BIAS	192.08	192.25	0.1668
44	50	HDR BIAS	196.14	196.24	0.0938
45	50	HDR BIAS	192.35	192.53	0.1845
46	50	HDR UNBIAS	196.31	196.48	0.1742
47	50	HDR UNBIAS	194.95	194.96	0.0128
48	50	HDR UNBIAS	196.24	194.36	-1.8714
49	50	HDR UNBIAS	193.88	194.85	0.9727
50	50	HDR UNBIAS	195.83	196.74	0.916
71	0	CORRELATION	192.68	192.61	-0.0692
72	0	CORRELATION	194.81	194.64	-0.1757
73	0	CORRELATION	195.7	195.75	0.0512

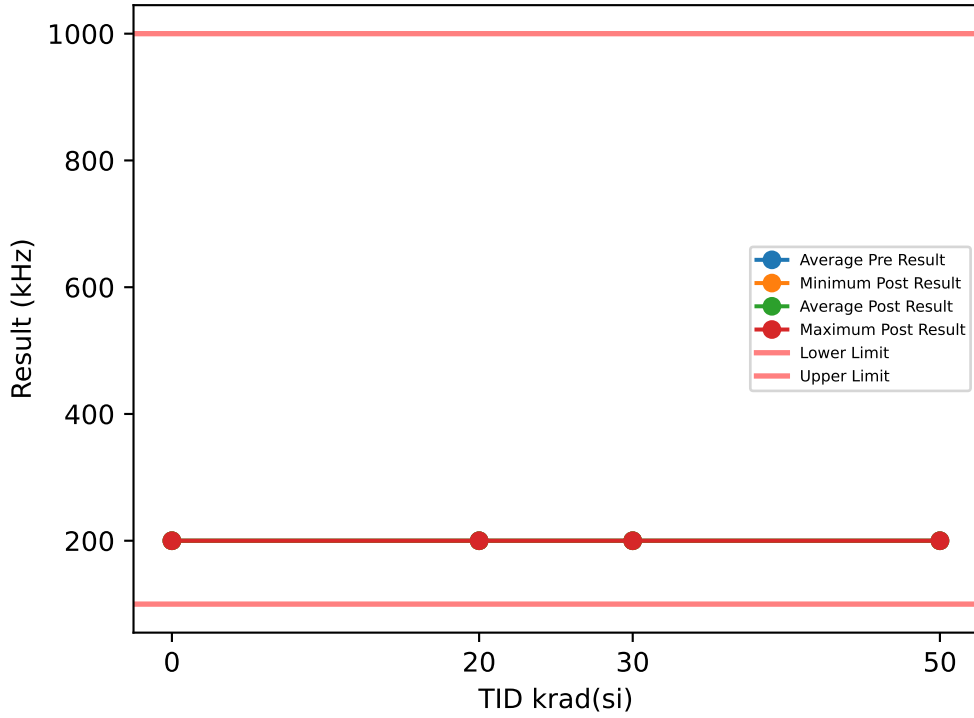
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	192.68	194.4	195.7	1.5506	192.61	194.33	195.75	1.5905	-0.1757	-0.064567	0.0512	0.11352
20	189.06	195.64	199.04	2.9228	189.13	195.81	198.95	2.9149	-0.3242	0.1744	0.6894	0.33769
30	188.56	194.87	198.26	2.8296	188.01	194.72	198.43	2.9332	-0.752	-0.14972	0.7101	0.43961
50	192.08	194.96	197.46	1.7783	192.25	194.85	196.74	1.6008	-1.8714	-0.10476	0.9727	0.88986

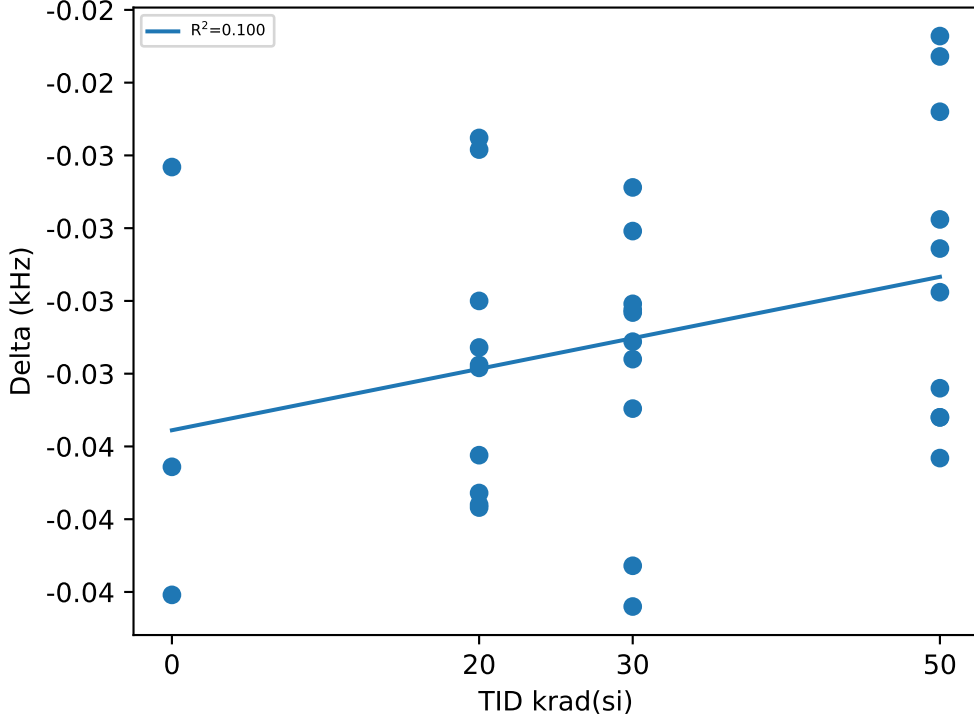
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	200.01	199.98	-0.0391
22	20	HDR BIAS	200.01	199.98	-0.0341
23	20	HDR BIAS	200.01	199.97	-0.0378
24	20	HDR BIAS	200.01	199.97	-0.0347
25	20	HDR BIAS	200	199.98	-0.0273
26	20	HDR UNBIAS	200	199.97	-0.0395
27	20	HDR UNBIAS	200.01	199.97	-0.0348
28	20	HDR UNBIAS	200	199.97	-0.0325
29	20	HDR UNBIAS	200.01	199.97	-0.0396
30	20	HDR UNBIAS	200.01	199.98	-0.0269
31	30	HDR BIAS	200	199.97	-0.0326
32	30	HDR BIAS	200.01	199.97	-0.0339
33	30	HDR BIAS	200.01	199.98	-0.0286
34	30	HDR BIAS	200	199.97	-0.0329
35	30	HDR BIAS	200.01	199.97	-0.043
36	30	HDR UNBIAS	200.01	199.98	-0.0362
37	30	HDR UNBIAS	200	199.97	-0.0328
38	30	HDR UNBIAS	200.01	199.97	-0.0416
39	30	HDR UNBIAS	200.01	199.98	-0.0301
40	30	HDR UNBIAS	200	199.97	-0.0345
41	50	HDR BIAS	200	199.97	-0.0322
42	50	HDR BIAS	200.01	199.98	-0.0355
43	50	HDR BIAS	200	199.98	-0.0234
44	50	HDR BIAS	200	199.97	-0.026
45	50	HDR BIAS	200.01	199.97	-0.0379
46	50	HDR UNBIAS	200.01	199.98	-0.0297
47	50	HDR UNBIAS	200	199.97	-0.0307
48	50	HDR UNBIAS	200.01	199.97	-0.0365
49	50	HDR UNBIAS	200	199.97	-0.0241
50	50	HDR UNBIAS	200.01	199.97	-0.0365
71	0	CORRELATION	200.01	199.97	-0.0382
72	0	CORRELATION	200.02	199.97	-0.0426
73	0	CORRELATION	200.01	199.98	-0.0279

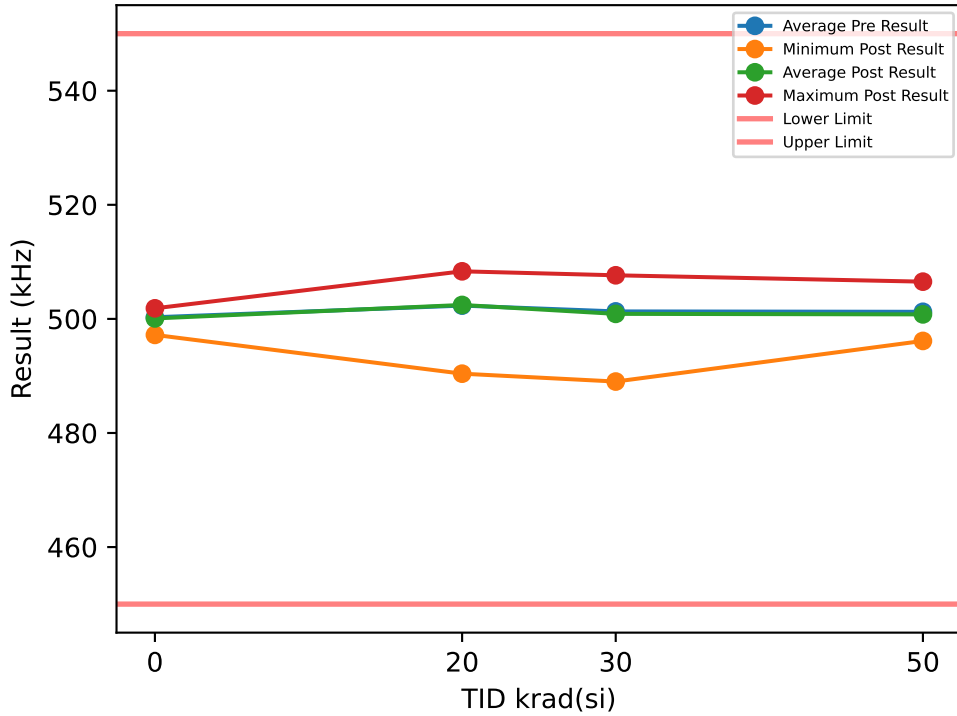
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200.01	200.01	200.02	0.0053575	199.97	199.98	199.98	0.0034771	-0.0426	-0.036233	-0.0279	0.0075448
20	200	200.01	200.01	0.0033675	199.97	199.97	199.98	0.0044475	-0.0396	-0.03463	-0.0269	0.004676
30	200	200.01	200.01	0.0033863	199.97	199.97	199.98	0.0047436	-0.043	-0.03462	-0.0286	0.0045825
50	200	200.01	200.01	0.0050344	199.97	199.97	199.98	0.0023908	-0.0379	-0.03125	-0.0234	0.0053885

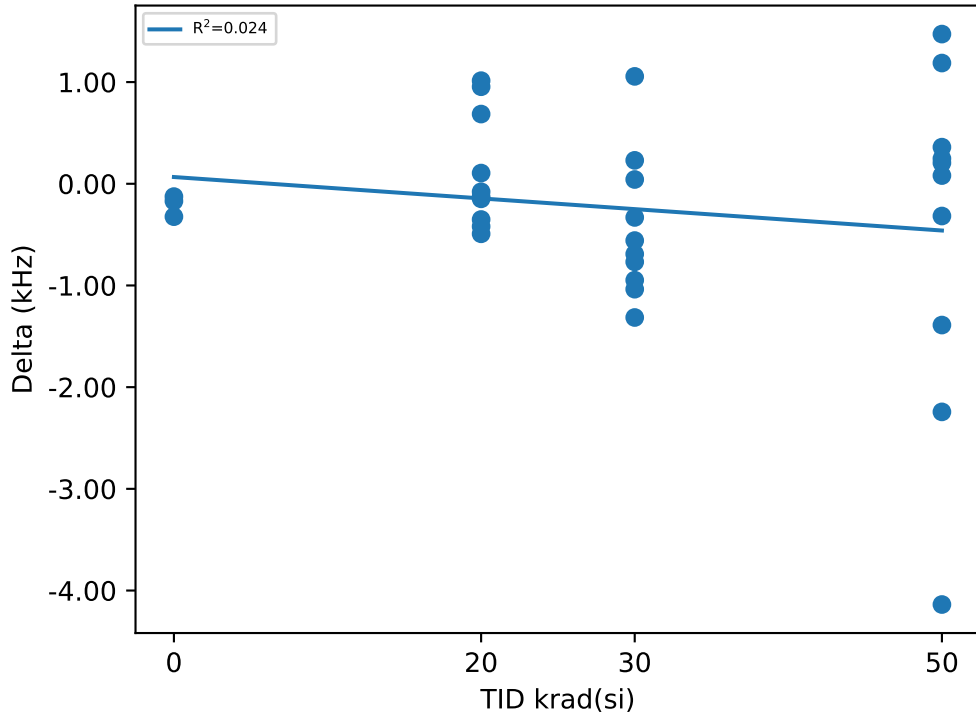
TID vs Result Stats



Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	508.69	508.34	-0.3514
22	20	HDR BIAS	498.17	497.75	-0.4196
23	20	HDR BIAS	503.31	504.33	1.014
24	20	HDR BIAS	490.48	490.4	-0.0786
25	20	HDR BIAS	506.27	506.14	-0.1276
26	20	HDR UNBIAS	504.56	504.67	0.1054
27	20	HDR UNBIAS	497.13	498.09	0.9543
28	20	HDR UNBIAS	502.64	503.33	0.6856
29	20	HDR UNBIAS	505.66	505.51	-0.1481
30	20	HDR UNBIAS	506.39	505.9	-0.492
31	30	HDR BIAS	498.83	499.89	1.0561
32	30	HDR BIAS	507.6	507.64	0.0421
33	30	HDR BIAS	499.02	498.25	-0.7681
34	30	HDR BIAS	489.96	489.02	-0.948
35	30	HDR BIAS	504.27	502.95	-1.315
36	30	HDR UNBIAS	504.35	504.02	-0.331
37	30	HDR UNBIAS	502.06	502.29	0.2304
38	30	HDR UNBIAS	499.63	499.07	-0.5583
39	30	HDR UNBIAS	507.07	506.38	-0.6909
40	30	HDR UNBIAS	500.35	499.31	-1.0367
41	50	HDR BIAS	500.63	499.24	-1.3893
42	50	HDR BIAS	503.99	501.74	-2.2432
43	50	HDR BIAS	495.78	496.14	0.3602
44	50	HDR BIAS	503.66	503.74	0.0808
45	50	HDR BIAS	496.44	496.69	0.248
46	50	HDR UNBIAS	502.96	503.17	0.2053
47	50	HDR UNBIAS	501.84	501.52	-0.317
48	50	HDR UNBIAS	501.13	496.99	-4.1375
49	50	HDR UNBIAS	500.96	502.14	1.1873
50	50	HDR UNBIAS	505.06	506.53	1.4721
71	0	CORRELATION	497.37	497.19	-0.17
72	0	CORRELATION	501.32	501.2	-0.126
73	0	CORRELATION	502.18	501.85	-0.3235

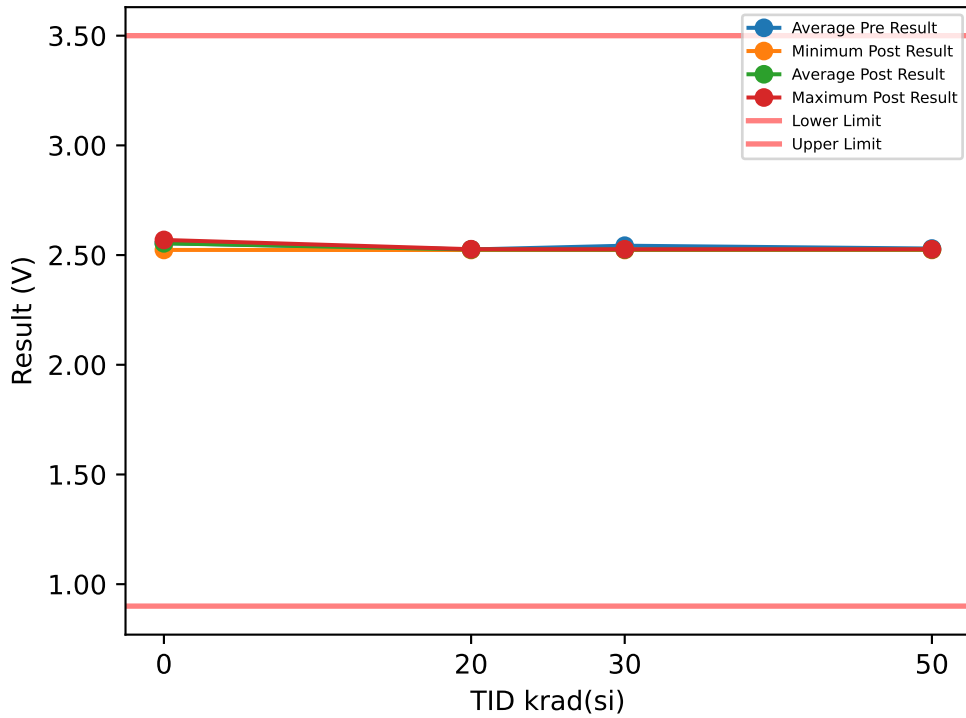
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	497.37	500.29	502.18	2.5678	497.19	500.08	501.85	2.5219	-0.3235	-0.2065	-0.126	0.10369
20	490.48	502.33	508.69	5.5231	490.4	502.44	508.34	5.4291	-0.492	0.1142	1.014	0.56526
30	489.96	501.31	507.6	5.1111	489.02	500.88	507.64	5.2326	-1.315	-0.43194	1.0561	0.70677
50	495.78	501.24	505.06	3.0662	496.14	500.79	506.53	3.4295	-4.1375	-0.45333	1.4721	1.6978

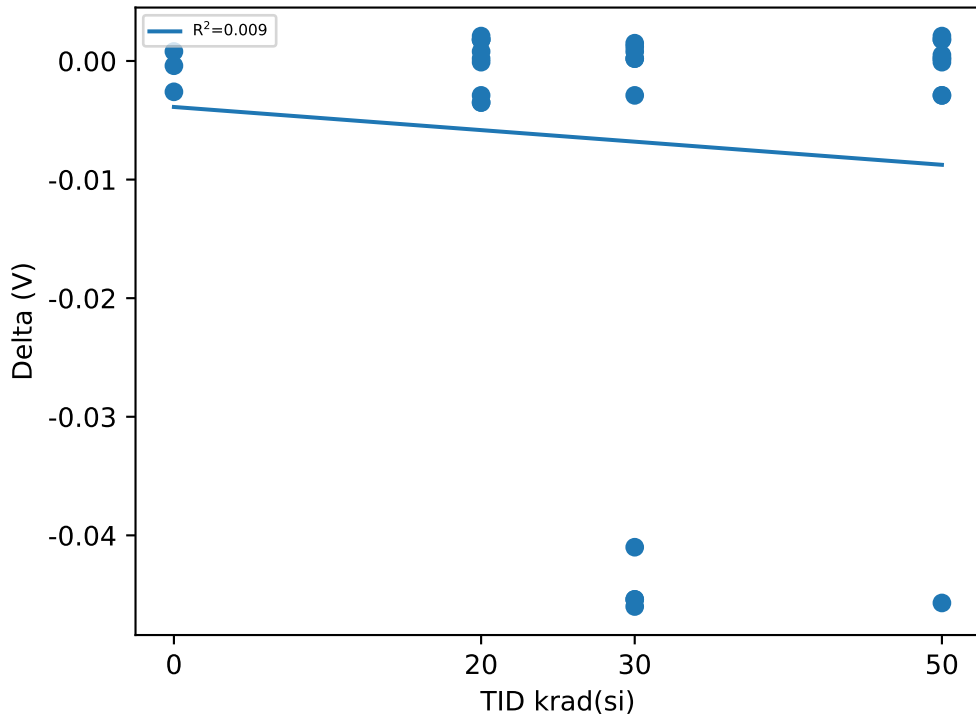
TID vs Result Stats



Test Results (Lower Limit = 0.9, Upper Limit = 3.5 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.5247	2.5265	0.0018
22	20	HDR BIAS	2.5269	2.5234	-0.0035
23	20	HDR BIAS	2.526	2.5259	-0.0001
24	20	HDR BIAS	2.5247	2.5265	0.0018
25	20	HDR BIAS	2.5266	2.5231	-0.0035
26	20	HDR UNBIAS	2.5257	2.5259	0.0002
27	20	HDR UNBIAS	2.5247	2.5265	0.0018
28	20	HDR UNBIAS	2.5263	2.5234	-0.0029
29	20	HDR UNBIAS	2.5257	2.5265	0.0008
30	20	HDR UNBIAS	2.5247	2.5268	0.0021
31	30	HDR BIAS	2.5691	2.5231	-0.046
32	30	HDR BIAS	2.5254	2.5262	0.0008
33	30	HDR BIAS	2.5675	2.5265	-0.041
34	30	HDR BIAS	2.5688	2.5234	-0.0454
35	30	HDR BIAS	2.5257	2.5259	0.0002
36	30	HDR UNBIAS	2.525	2.5262	0.0012
37	30	HDR UNBIAS	2.5691	2.5237	-0.0454
38	30	HDR UNBIAS	2.526	2.5262	0.0002
39	30	HDR UNBIAS	2.525	2.5265	0.0015
40	30	HDR UNBIAS	2.5263	2.5234	-0.0029
41	50	HDR BIAS	2.5257	2.5259	0.0002
42	50	HDR BIAS	2.5247	2.5265	0.0018
43	50	HDR BIAS	2.5691	2.5234	-0.0457
44	50	HDR BIAS	2.5257	2.5262	0.0005
45	50	HDR BIAS	2.5247	2.5265	0.0018
46	50	HDR UNBIAS	2.5263	2.5234	-0.0029
47	50	HDR UNBIAS	2.526	2.5259	-0.0001
48	50	HDR UNBIAS	2.5244	2.5265	0.0021
49	50	HDR UNBIAS	2.5263	2.5234	-0.0029
50	50	HDR UNBIAS	2.5257	2.5259	0.0002
71	0	CORRELATION	2.526	2.5234	-0.0026
72	0	CORRELATION	2.5675	2.5683	0.0008
73	0	CORRELATION	2.5694	2.569	-0.0004

TID vs Post - Pre Exposure Delta

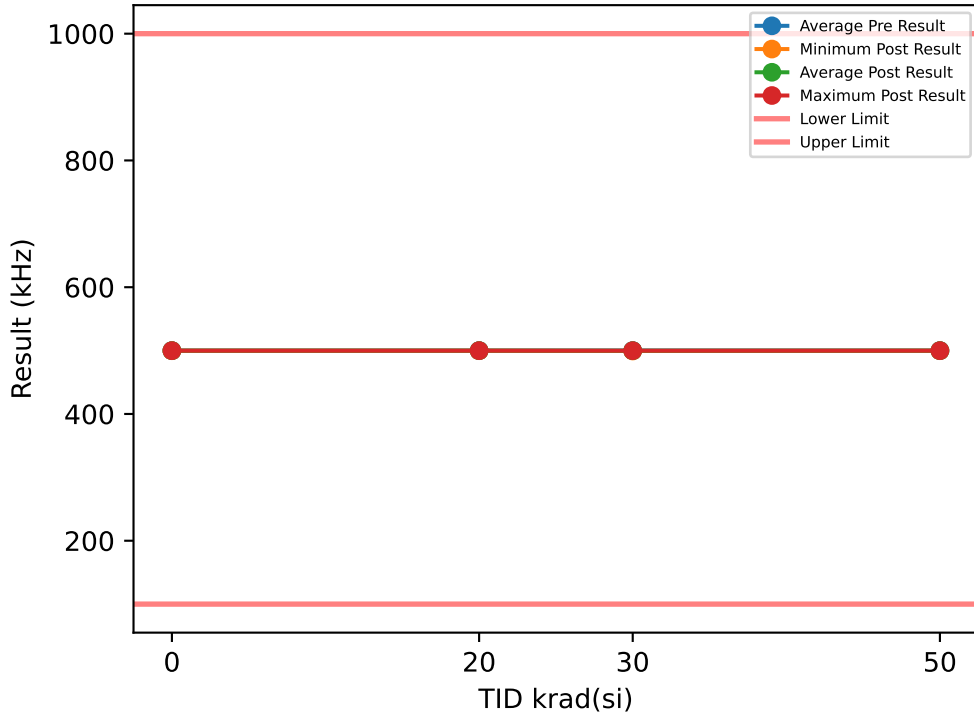


Test Statistics (V)

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	2.526	2.5543	2.5694	0.024527	2.5234	2.5536	2.569	0.026127	-0.0026	-0.00073333	0.0008	0.0017243
20	2.5247	2.5256	2.5269	0.00085635	2.5231	2.5255	2.5268	0.0015116	-0.0035	-0.00015	0.0021	0.0022975
30	2.525	2.5428	2.5691	0.022243	2.5231	2.5251	2.5265	0.0014881	-0.046	-0.01768	0.0015	0.023109
50	2.5244	2.5299	2.5691	0.013804	2.5234	2.5254	2.5265	0.0013745	-0.0457	-0.0045	0.0021	0.014583

# Device Test: 20.40 LEVEL|FREQ/SYNC/4.5/4.5/0/0/4.5/500kHz//@FREQ\_SYNC\_EXT

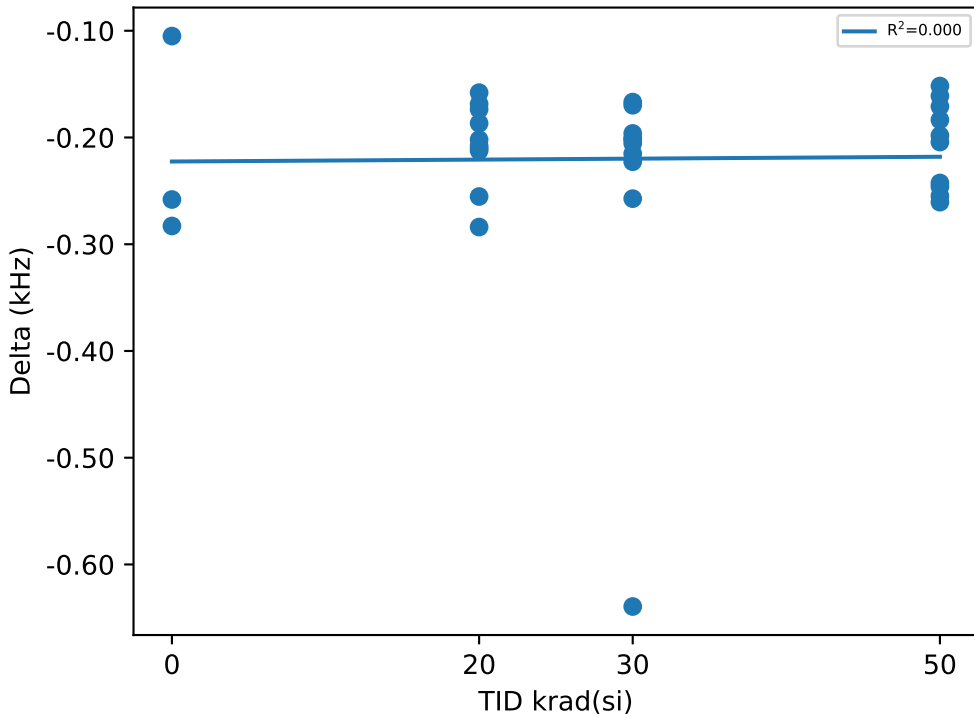
### TID vs Result Stats



### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	500.04	499.88	-0.158
22	20	HDR BIAS	500.06	499.86	-0.202
23	20	HDR BIAS	500.03	499.84	-0.1867
24	20	HDR BIAS	500.04	499.87	-0.1686
25	20	HDR BIAS	500.06	499.85	-0.2124
26	20	HDR UNBIAS	500.05	499.84	-0.2077
27	20	HDR UNBIAS	500.05	499.87	-0.1736
28	20	HDR UNBIAS	500.07	499.81	-0.2553
29	20	HDR UNBIAS	500.09	499.81	-0.2839
30	20	HDR UNBIAS	500.09	499.88	-0.2103
31	30	HDR BIAS	500.03	499.86	-0.1668
32	30	HDR BIAS	500.04	499.83	-0.2055
33	30	HDR BIAS	500.04	499.87	-0.1698
34	30	HDR BIAS	500.08	499.82	-0.2573
35	30	HDR BIAS	500.04	499.84	-0.2012
36	30	HDR UNBIAS	500.08	499.89	-0.1962
37	30	HDR UNBIAS	500.02	499.8	-0.2152
38	30	HDR UNBIAS	500.07	499.85	-0.2227
39	30	HDR UNBIAS	500.08	499.88	-0.2013
40	30	HDR UNBIAS	500.01	499.37	-0.6394
41	50	HDR BIAS	500.05	499.79	-0.2548
42	50	HDR BIAS	500.05	499.88	-0.1709
43	50	HDR BIAS	500.04	499.88	-0.1611
44	50	HDR BIAS	500.03	499.85	-0.1835
45	50	HDR BIAS	500.04	499.88	-0.1518
46	50	HDR UNBIAS	500.06	499.8	-0.2606
47	50	HDR UNBIAS	500.1	499.86	-0.2426
48	50	HDR UNBIAS	500.04	499.83	-0.2043
49	50	HDR UNBIAS	500.02	499.82	-0.1982
50	50	HDR UNBIAS	500.09	499.85	-0.2461
71	0	CORRELATION	500.06	499.8	-0.2581
72	0	CORRELATION	500.07	499.79	-0.2829
73	0	CORRELATION	499.99	499.88	-0.105

### TID vs Post - Pre Exposure Delta

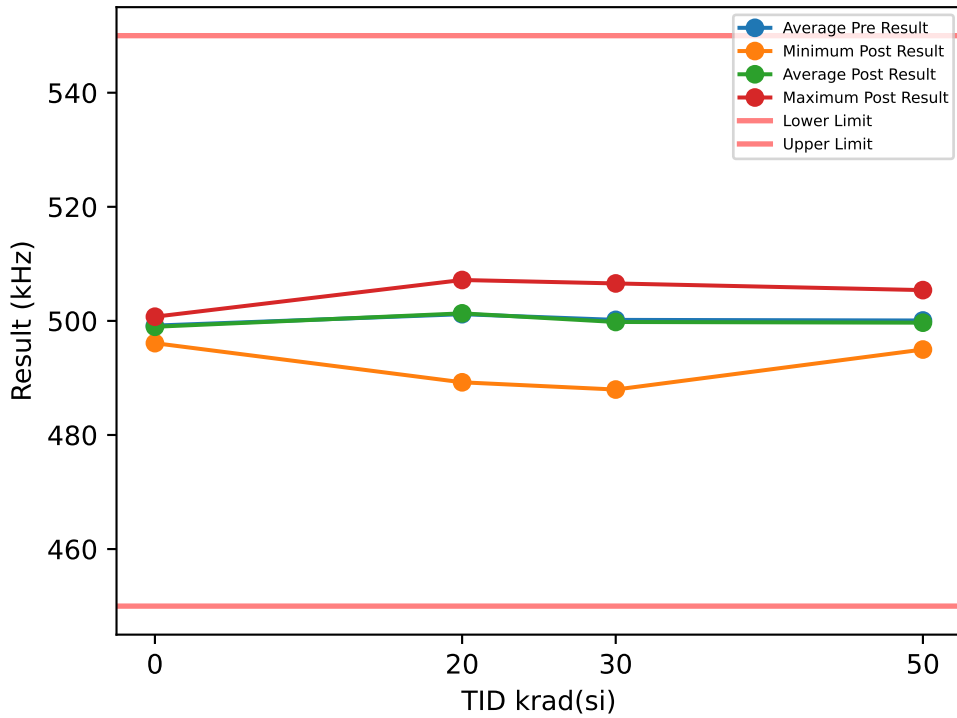


### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.99	500.04	500.07	0.046799	499.79	499.82	499.88	0.049704	-0.2829	-0.21533	-0.105	0.096353
20	500.03	500.06	500.09	0.021153	499.81	499.85	499.88	0.025945	-0.2839	-0.20585	-0.158	0.039019
30	500.01	500.05	500.08	0.026037	499.37	499.8	499.89	0.15255	-0.6394	-0.24754	-0.1668	0.14006
50	500.02	500.05	500.1	0.02724	499.79	499.84	499.88	0.03213	-0.2606	-0.20739	-0.1518	0.040888

# Device Test: 20.43 LEVEL|FREQ/RT/5/5/0/0/5/500kHz//@FSW\_EXT\_RT\_C

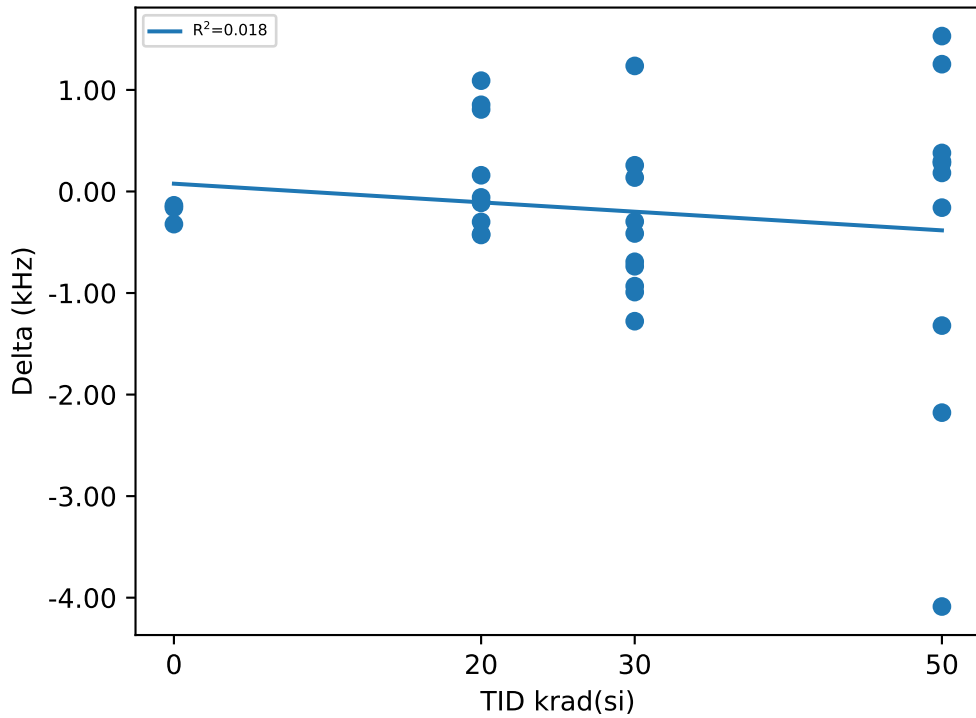
### TID vs Result Stats



### Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	507.47	507.17	-0.2996
22	20	HDR BIAS	497.06	496.63	-0.4283
23	20	HDR BIAS	502.17	503.26	1.0912
24	20	HDR BIAS	489.35	489.24	-0.1117
25	20	HDR BIAS	505.06	504.96	-0.1073
26	20	HDR UNBIAS	503.34	503.5	0.1596
27	20	HDR UNBIAS	496.21	497.07	0.8536
28	20	HDR UNBIAS	501.32	502.12	0.8074
29	20	HDR UNBIAS	504.53	504.47	-0.0583
30	20	HDR UNBIAS	505.23	504.81	-0.4205
31	30	HDR BIAS	497.59	498.83	1.2363
32	30	HDR BIAS	506.43	506.57	0.1368
33	30	HDR BIAS	497.87	497.14	-0.7366
34	30	HDR BIAS	488.9	487.97	-0.9324
35	30	HDR BIAS	503.17	501.9	-1.2775
36	30	HDR UNBIAS	503.27	502.97	-0.296
37	30	HDR UNBIAS	500.9	501.16	0.2579
38	30	HDR UNBIAS	498.53	498.12	-0.4138
39	30	HDR UNBIAS	505.86	505.17	-0.6923
40	30	HDR UNBIAS	499.26	498.27	-0.9909
41	50	HDR BIAS	499.47	498.15	-1.3206
42	50	HDR BIAS	502.73	500.55	-2.1779
43	50	HDR BIAS	494.6	494.98	0.3795
44	50	HDR BIAS	502.51	502.69	0.1827
45	50	HDR BIAS	495.31	495.59	0.2796
46	50	HDR UNBIAS	501.91	502.21	0.2979
47	50	HDR UNBIAS	500.76	500.6	-0.1592
48	50	HDR UNBIAS	499.96	495.87	-4.087
49	50	HDR UNBIAS	499.6	500.86	1.2534
50	50	HDR UNBIAS	503.87	505.4	1.5302
71	0	CORRELATION	496.23	496.1	-0.1362
72	0	CORRELATION	500.24	500.08	-0.1591
73	0	CORRELATION	501.06	500.73	-0.3216

### TID vs Post - Pre Exposure Delta



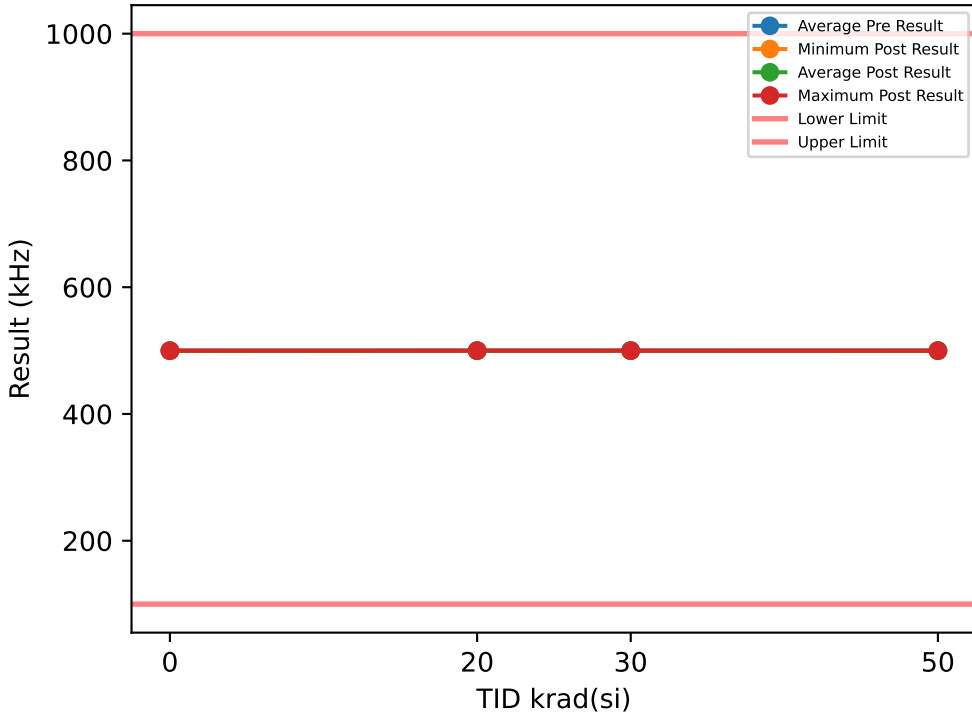
### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	496.23	499.18	501.06	2.5801	496.1	498.97	500.73	2.5089	-0.3216	-0.20563	-0.1362	0.10108
20	489.35	501.17	507.47	5.4729	489.24	501.32	507.17	5.4244	-0.4283	0.14861	1.0912	0.56305
30	488.9	500.18	506.43	5.0905	487.97	499.81	506.57	5.2086	-1.2775	-0.37085	1.2363	0.74553
50	494.6	500.07	503.87	3.063	494.98	499.69	505.4	3.444	-4.087	-0.38214	1.5302	1.7001



Device Test: 20.44 LEVEL|FREQ/SYNC/5/5/0/0/5/500kHz//@FREQ\_SYNC\_EXT

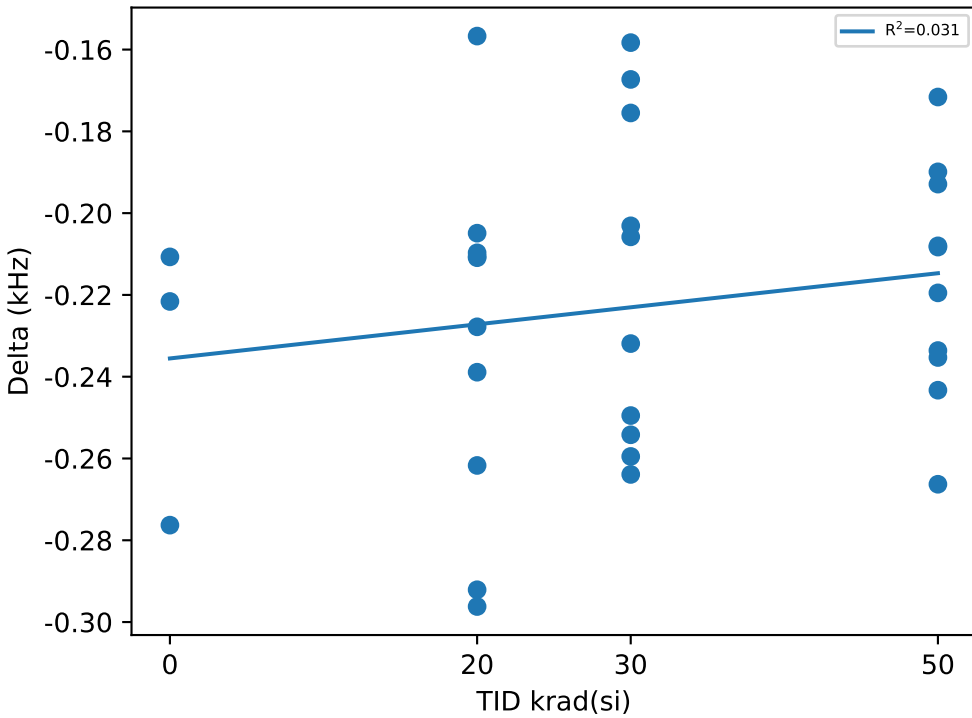
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	500.04	499.83	-0.2049
22	20	HDR BIAS	500.02	499.81	-0.2106
23	20	HDR BIAS	500.02	499.79	-0.2278
24	20	HDR BIAS	500.05	499.89	-0.1567
25	20	HDR BIAS	500.1	499.8	-0.2962
26	20	HDR UNBIAS	500.04	499.78	-0.2617
27	20	HDR UNBIAS	500.07	499.83	-0.2389
28	20	HDR UNBIAS	500.02	499.81	-0.2097
29	20	HDR UNBIAS	500.08	499.78	-0.2921
30	20	HDR UNBIAS	500.03	499.82	-0.2109
31	30	HDR BIAS	500.01	499.85	-0.1583
32	30	HDR BIAS	500.08	499.82	-0.2542
33	30	HDR BIAS	500.05	499.82	-0.2319
34	30	HDR BIAS	500.02	499.86	-0.1673
35	30	HDR BIAS	500.09	499.83	-0.2595
36	30	HDR UNBIAS	500.09	499.83	-0.2639
37	30	HDR UNBIAS	500.06	499.86	-0.2031
38	30	HDR UNBIAS	500.02	499.84	-0.1755
39	30	HDR UNBIAS	500.08	499.83	-0.2495
40	30	HDR UNBIAS	500.07	499.86	-0.2058
41	50	HDR BIAS	500.08	499.82	-0.2663
42	50	HDR BIAS	500.07	499.88	-0.1899
43	50	HDR BIAS	500.05	499.86	-0.1929
44	50	HDR BIAS	500.03	499.79	-0.2336
45	50	HDR BIAS	500.04	499.82	-0.2195
46	50	HDR UNBIAS	500.02	499.85	-0.1716
47	50	HDR UNBIAS	500.07	499.83	-0.2433
48	50	HDR UNBIAS	500.08	499.87	-0.208
49	50	HDR UNBIAS	500.07	499.86	-0.2083
50	50	HDR UNBIAS	500.03	499.79	-0.2353
71	0	CORRELATION	500.07	499.85	-0.2216
72	0	CORRELATION	500.04	499.83	-0.2107
73	0	CORRELATION	500.01	499.73	-0.2763

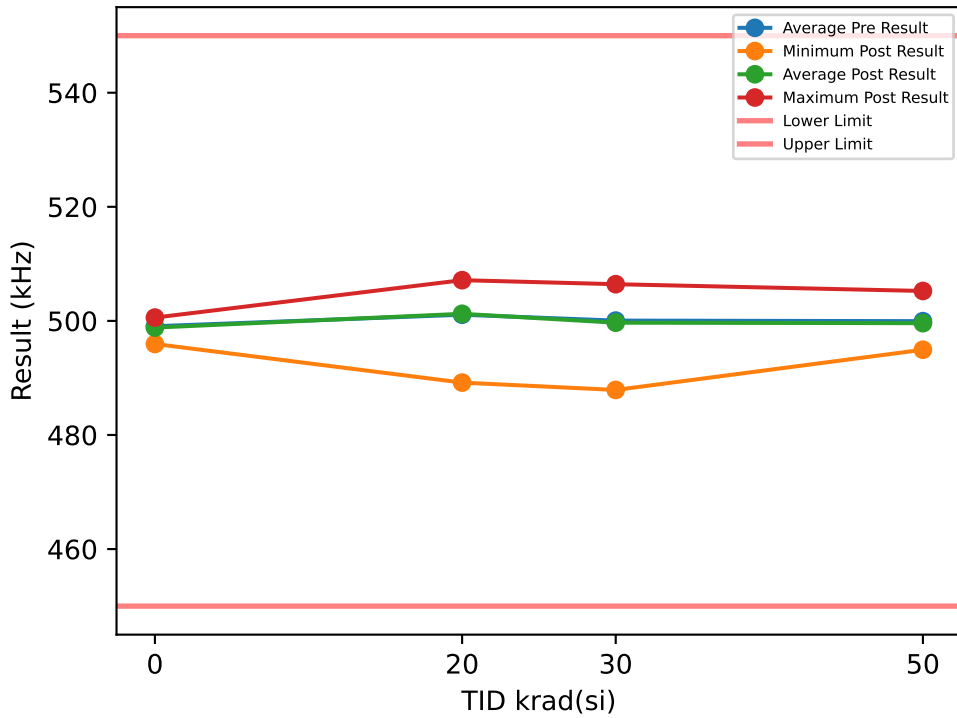
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.01	500.04	500.07	0.031528	499.73	499.8	499.85	0.063626	-0.2763	-0.2362	-0.2107	0.035153
20	500.02	500.05	500.1	0.026425	499.78	499.81	499.89	0.031495	-0.2962	-0.23095	-0.1567	0.042785
30	500.01	500.06	500.09	0.029367	499.82	499.84	499.86	0.01676	-0.2639	-0.2169	-0.1583	0.040311
50	500.02	500.05	500.08	0.024196	499.79	499.84	499.88	0.031198	-0.2663	-0.21687	-0.1716	0.028425

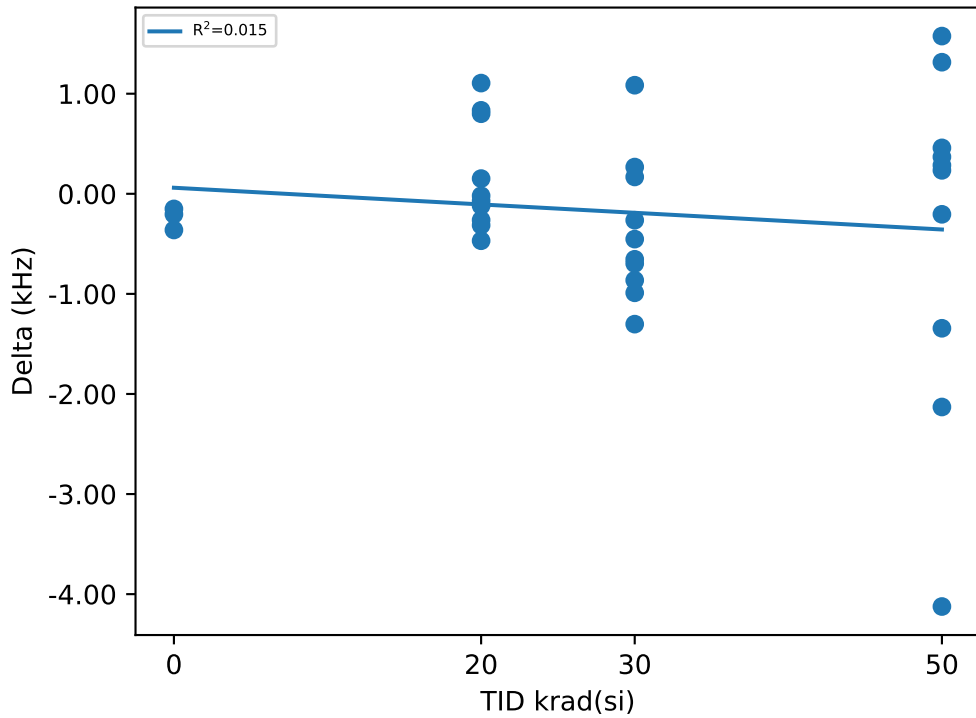
TID vs Result Stats



Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	507.4	507.14	-0.2622
22	20	HDR BIAS	496.91	496.59	-0.3139
23	20	HDR BIAS	502.05	503.16	1.1062
24	20	HDR BIAS	489.2	489.18	-0.0198
25	20	HDR BIAS	504.94	504.83	-0.1187
26	20	HDR UNBIAS	503.24	503.4	0.152
27	20	HDR UNBIAS	496.17	497	0.8339
28	20	HDR UNBIAS	501.26	502.06	0.8
29	20	HDR UNBIAS	504.48	504.41	-0.0707
30	20	HDR UNBIAS	505.15	504.68	-0.469
31	30	HDR BIAS	497.53	498.61	1.0849
32	30	HDR BIAS	506.27	506.43	0.1683
33	30	HDR BIAS	497.79	497.09	-0.6965
34	30	HDR BIAS	488.76	487.9	-0.8638
35	30	HDR BIAS	503.11	501.81	-1.3023
36	30	HDR UNBIAS	503.12	502.85	-0.2639
37	30	HDR UNBIAS	500.74	501	0.2671
38	30	HDR UNBIAS	498.38	497.93	-0.4528
39	30	HDR UNBIAS	505.71	505.06	-0.6544
40	30	HDR UNBIAS	499.14	498.15	-0.9892
41	50	HDR BIAS	499.37	498.03	-1.3436
42	50	HDR BIAS	502.61	500.48	-2.1301
43	50	HDR BIAS	494.48	494.94	0.4588
44	50	HDR BIAS	502.38	502.61	0.2343
45	50	HDR BIAS	495.19	495.48	0.2849
46	50	HDR UNBIAS	501.8	502.17	0.3686
47	50	HDR UNBIAS	500.68	500.47	-0.205
48	50	HDR UNBIAS	499.89	495.76	-4.1236
49	50	HDR UNBIAS	499.48	500.8	1.3148
50	50	HDR UNBIAS	503.67	505.25	1.5758
71	0	CORRELATION	496.16	495.95	-0.2049
72	0	CORRELATION	500.1	499.95	-0.1511
73	0	CORRELATION	500.94	500.58	-0.3615

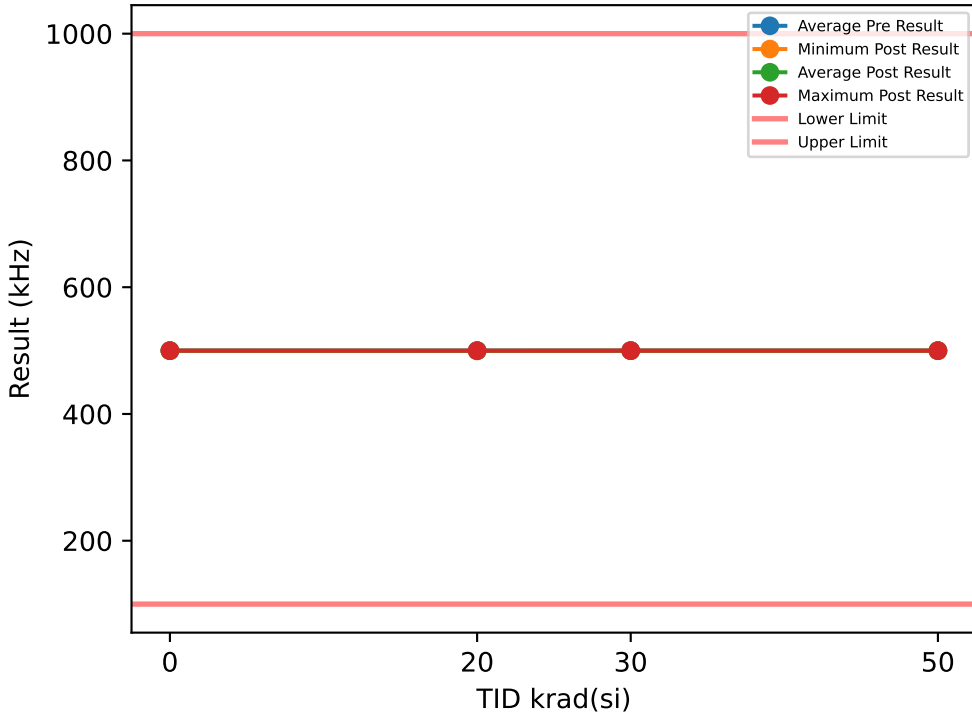
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	496.16	499.07	500.94	2.5553	495.95	498.83	500.58	2.5106	-0.3615	-0.23917	-0.1511	0.10931
20	489.2	501.08	507.4	5.4892	489.18	501.24	507.14	5.4096	-0.469	0.16378	1.1062	0.54981
30	488.76	500.05	506.27	5.0824	487.9	499.68	506.43	5.1959	-1.3023	-0.37026	1.0849	0.70824
50	494.48	499.96	503.67	3.0522	494.94	499.6	505.25	3.4382	-4.1236	-0.35651	1.5758	1.726

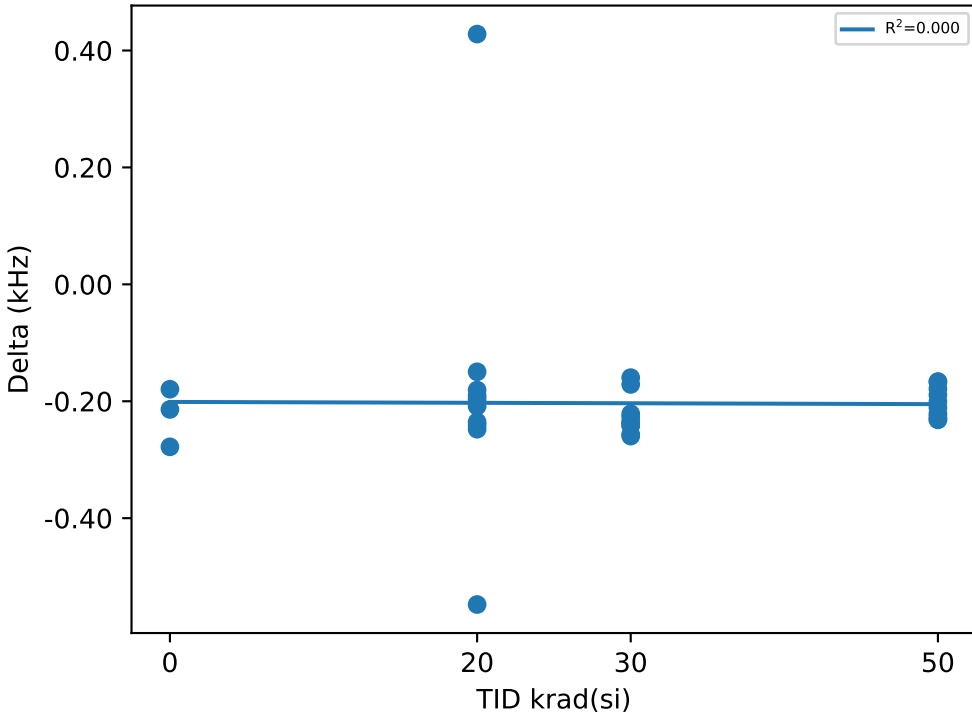
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	500.07	499.83	-0.2478
22	20	HDR BIAS	500.04	499.86	-0.1808
23	20	HDR BIAS	500.06	499.85	-0.2084
24	20	HDR BIAS	500.07	499.87	-0.1962
25	20	HDR BIAS	500.03	499.79	-0.2354
26	20	HDR UNBIAS	500.02	499.83	-0.1902
27	20	HDR UNBIAS	500.02	499.87	-0.1496
28	20	HDR UNBIAS	499.38	499.81	0.4281
29	20	HDR UNBIAS	500.06	499.52	-0.5477
30	20	HDR UNBIAS	500.07	499.83	-0.2407
31	30	HDR BIAS	500.05	499.82	-0.227
32	30	HDR BIAS	500.01	499.79	-0.2214
33	30	HDR BIAS	500.03	499.87	-0.1596
34	30	HDR BIAS	500.06	499.81	-0.2411
35	30	HDR BIAS	500.07	499.82	-0.2567
36	30	HDR UNBIAS	500.07	499.83	-0.2366
37	30	HDR UNBIAS	500.08	499.84	-0.2363
38	30	HDR UNBIAS	500.07	499.83	-0.2415
39	30	HDR UNBIAS	500.05	499.88	-0.1712
40	30	HDR UNBIAS	500.07	499.81	-0.2596
41	50	HDR BIAS	500.03	499.83	-0.2008
42	50	HDR BIAS	500.05	499.83	-0.2211
43	50	HDR BIAS	500.04	499.8	-0.2318
44	50	HDR BIAS	500.06	499.83	-0.2308
45	50	HDR BIAS	500.05	499.82	-0.226
46	50	HDR UNBIAS	500.02	499.83	-0.1894
47	50	HDR UNBIAS	500.01	499.83	-0.1785
48	50	HDR UNBIAS	500.03	499.87	-0.1664
49	50	HDR UNBIAS	499.97	499.8	-0.1667
50	50	HDR UNBIAS	500.06	499.85	-0.211
71	0	CORRELATION	500.02	499.8	-0.214
72	0	CORRELATION	500.07	499.79	-0.278
73	0	CORRELATION	500.05	499.87	-0.1794

TID vs Post - Pre Exposure Delta

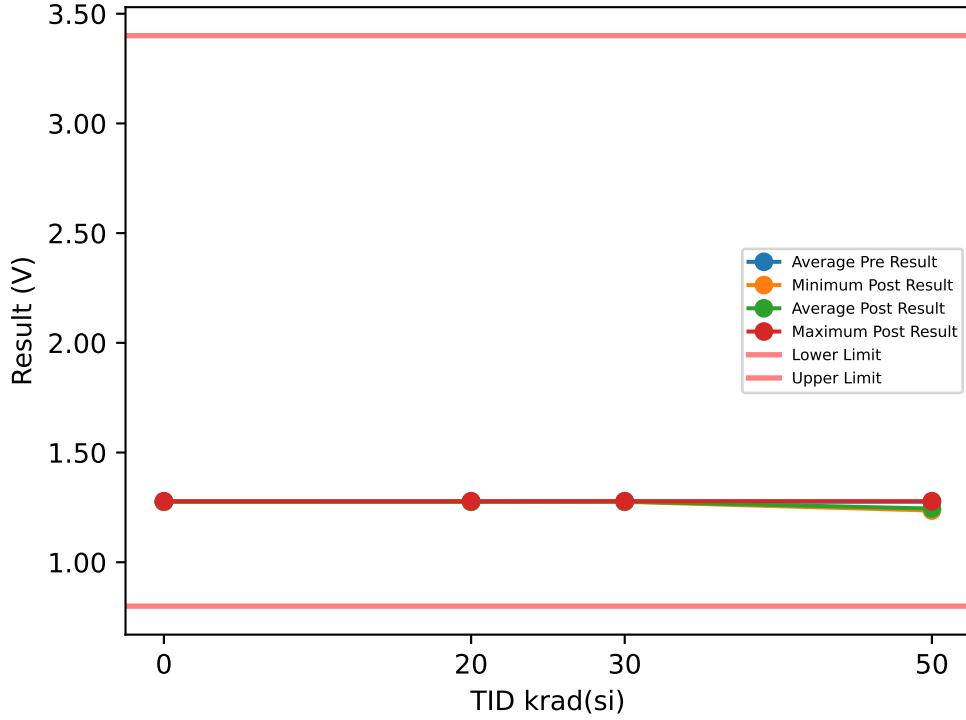


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.02	500.05	500.07	0.025729	499.79	499.82	499.87	0.043645	-0.278	-0.2238	-0.1794	0.050025
20	499.38	499.98	500.07	0.21117	499.52	499.81	499.87	0.10475	-0.5477	-0.17687	0.4281	0.23999
30	500.01	500.05	500.08	0.022249	499.79	499.83	499.88	0.02658	-0.2596	-0.2251	-0.1596	0.033639
50	499.97	500.03	500.06	0.026162	499.8	499.83	499.87	0.0183	-0.2318	-0.20225	-0.1664	0.025744

Device Test: 20.5 LEVEL|LOW\_LEVEL/SYNC/5/5/0/0/4.5/500kHz//@SYNC\_VIL\_TH\_HIGH\_4P5

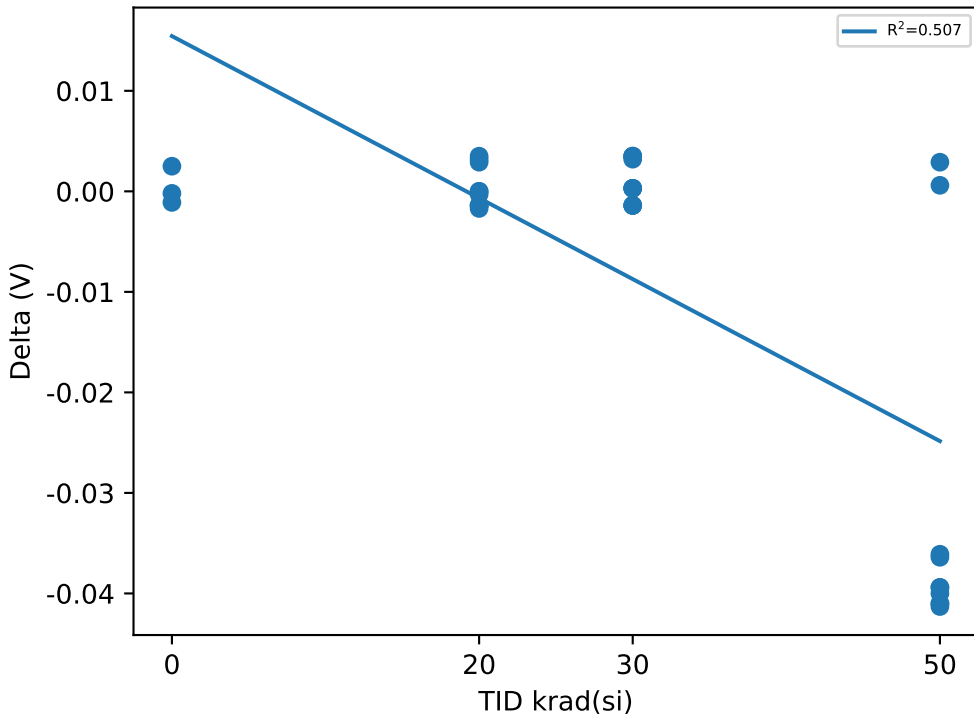
TID vs Result Stats



Test Results (Lower Limit = 0.8, Upper Limit = 3.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2765	1.2751	-0.0014
22	20	HDR BIAS	1.2747	1.2782	0.0035
23	20	HDR BIAS	1.276	1.2757	-0.0003
24	20	HDR BIAS	1.2768	1.2754	-0.0014
25	20	HDR BIAS	1.275	1.2782	0.0032
26	20	HDR UNBIAS	1.2757	1.2757	0
27	20	HDR UNBIAS	1.2768	1.2751	-0.0017
28	20	HDR UNBIAS	1.2753	1.2782	0.0029
29	20	HDR UNBIAS	1.2754	1.2754	0
30	20	HDR UNBIAS	1.2765	1.2751	-0.0014
31	30	HDR BIAS	1.2747	1.2782	0.0035
32	30	HDR BIAS	1.2754	1.2757	0.0003
33	30	HDR BIAS	1.2765	1.2751	-0.0014
34	30	HDR BIAS	1.275	1.2785	0.0035
35	30	HDR BIAS	1.2757	1.276	0.0003
36	30	HDR UNBIAS	1.2768	1.2754	-0.0014
37	30	HDR UNBIAS	1.275	1.2782	0.0032
38	30	HDR UNBIAS	1.2757	1.276	0.0003
39	30	HDR UNBIAS	1.2768	1.2754	-0.0014
40	30	HDR UNBIAS	1.2747	1.2782	0.0035
41	50	HDR BIAS	1.2757	1.2763	0.0006
42	50	HDR BIAS	1.2768	1.2358	-0.041
43	50	HDR BIAS	1.2753	1.2782	0.0029
44	50	HDR BIAS	1.2757	1.2363	-0.0394
45	50	HDR BIAS	1.2768	1.2358	-0.041
46	50	HDR UNBIAS	1.2747	1.2386	-0.0361
47	50	HDR UNBIAS	1.276	1.236	-0.04
48	50	HDR UNBIAS	1.2768	1.2355	-0.0413
49	50	HDR UNBIAS	1.2747	1.2383	-0.0364
50	50	HDR UNBIAS	1.2754	1.236	-0.0394
71	0	CORRELATION	1.2757	1.2782	0.0025
72	0	CORRELATION	1.2768	1.2757	-0.0011
73	0	CORRELATION	1.2753	1.2751	-0.0002

TID vs Post - Pre Exposure Delta

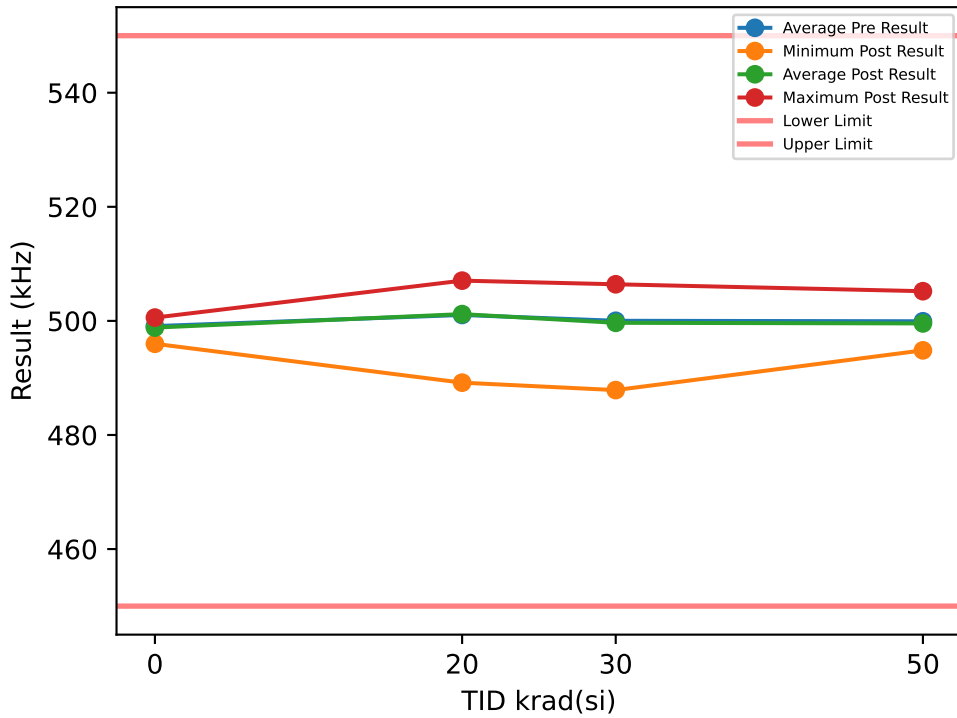


Test Statistics (V)

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	1.2753	1.2759	1.2768	0.00077675	1.2751	1.2763	1.2782	0.0016442	-0.0011	0.0004	0.0025	0.0018735
20	1.2747	1.2759	1.2768	0.00076311	1.2751	1.2762	1.2782	0.0013908	-0.0017	0.00034	0.0035	0.0020711
30	1.2747	1.2756	1.2768	0.00082199	1.2751	1.2767	1.2785	0.0014103	-0.0014	0.00104	0.0035	0.0021686
50	1.2747	1.2758	1.2768	0.00080891	1.2355	1.2447	1.2782	0.017205	-0.0413	-0.03111	0.0029	0.01742

Device Test: 20.51 LEVEL|FREQ/RT/14/14/0/0/5/500kHz//@FSW\_EXT\_RT\_C

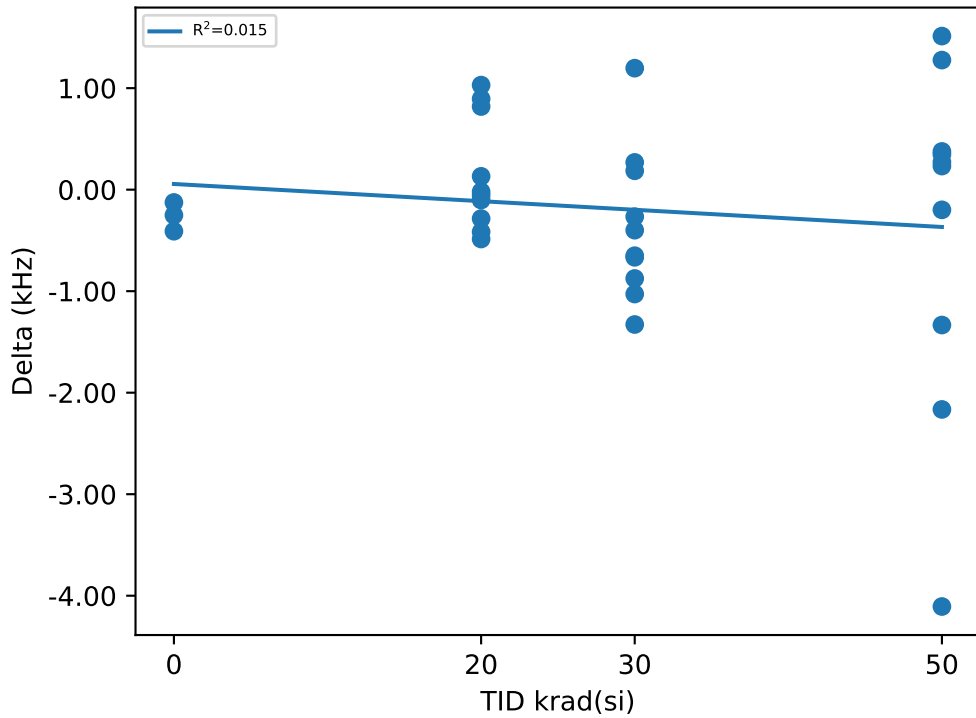
TID vs Result Stats



Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	507.34	507.06	-0.285
22	20	HDR BIAS	496.96	496.54	-0.416
23	20	HDR BIAS	502.06	503.09	1.03
24	20	HDR BIAS	489.19	489.17	-0.02
25	20	HDR BIAS	504.9	504.8	-0.1022
26	20	HDR UNBIAS	503.17	503.3	0.1312
27	20	HDR UNBIAS	496.06	496.95	0.8948
28	20	HDR UNBIAS	501.2	502.02	0.819
29	20	HDR UNBIAS	504.39	504.34	-0.0562
30	20	HDR UNBIAS	505.13	504.64	-0.4862
31	30	HDR BIAS	497.43	498.63	1.1967
32	30	HDR BIAS	506.23	506.42	0.1859
33	30	HDR BIAS	497.74	497.07	-0.6663
34	30	HDR BIAS	488.75	487.87	-0.8749
35	30	HDR BIAS	503.06	501.73	-1.3284
36	30	HDR UNBIAS	503.06	502.8	-0.2659
37	30	HDR UNBIAS	500.72	500.99	0.2685
38	30	HDR UNBIAS	498.33	497.93	-0.3993
39	30	HDR UNBIAS	505.71	505.06	-0.6506
40	30	HDR UNBIAS	499.17	498.15	-1.0282
41	50	HDR BIAS	499.38	498.04	-1.3335
42	50	HDR BIAS	502.61	500.44	-2.165
43	50	HDR BIAS	494.46	494.84	0.3764
44	50	HDR BIAS	502.34	502.61	0.2721
45	50	HDR BIAS	495.24	495.47	0.2324
46	50	HDR UNBIAS	501.78	502.13	0.3471
47	50	HDR UNBIAS	500.61	500.41	-0.1987
48	50	HDR UNBIAS	499.79	495.69	-4.1064
49	50	HDR UNBIAS	499.45	500.73	1.2765
50	50	HDR UNBIAS	503.69	505.21	1.5129
71	0	CORRELATION	496.12	495.99	-0.1261
72	0	CORRELATION	500.16	499.91	-0.2511
73	0	CORRELATION	500.99	500.58	-0.4094

TID vs Post - Pre Exposure Delta

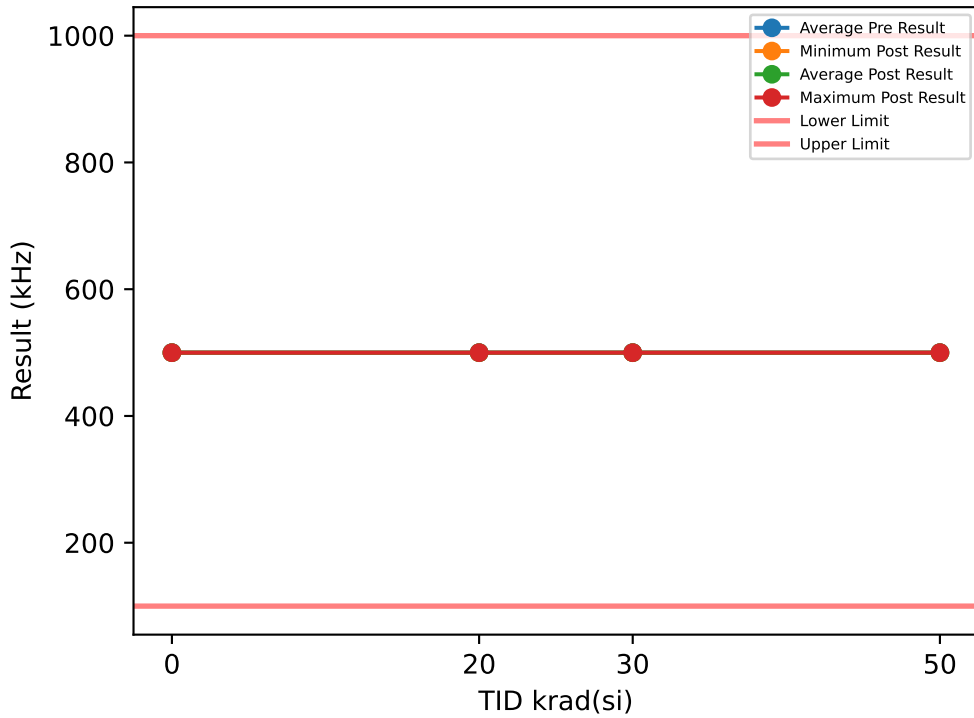


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	496.12	499.09	500.99	2.6083	495.99	498.83	500.58	2.48	-0.4094	-0.2622	-0.1261	0.14198
20	489.19	501.04	507.34	5.4776	489.17	501.19	507.06	5.3954	-0.4862	0.15094	1.03	0.5604
30	488.75	500.02	506.23	5.0829	487.87	499.66	506.42	5.1933	-1.3284	-0.35625	1.1967	0.74194
50	494.46	499.94	503.69	3.0471	494.84	499.56	505.21	3.4489	-4.1064	-0.37862	1.5129	1.7076

# Device Test: 20.52 LEVEL|FREQ/SYNC/14/14/0/0/5/500kHz//@FREQ\_SYNC\_EXT

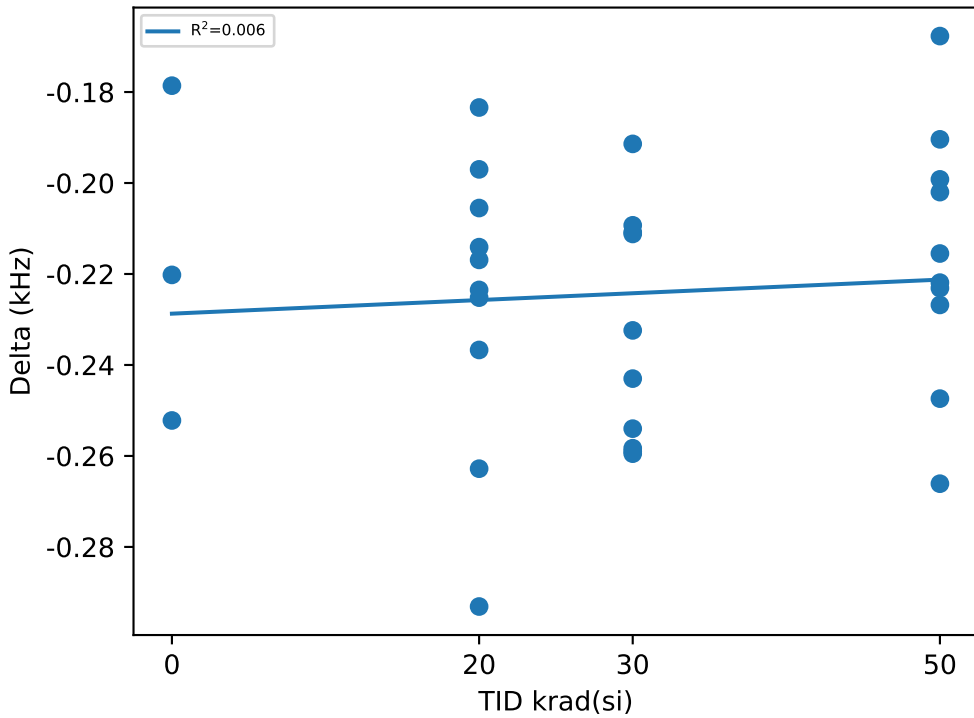
### TID vs Result Stats



### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	500.04	499.86	-0.1834
22	20	HDR BIAS	500.04	499.82	-0.2235
23	20	HDR BIAS	500.03	499.79	-0.2367
24	20	HDR BIAS	500.07	499.87	-0.197
25	20	HDR BIAS	500.06	499.83	-0.2252
26	20	HDR UNBIAS	500.03	499.82	-0.2141
27	20	HDR UNBIAS	500.09	499.82	-0.2628
28	20	HDR UNBIAS	500.02	499.81	-0.2055
29	20	HDR UNBIAS	500.08	499.78	-0.2931
30	20	HDR UNBIAS	500.08	499.86	-0.2169
31	30	HDR BIAS	500.08	499.84	-0.2324
32	30	HDR BIAS	500.08	499.82	-0.254
33	30	HDR BIAS	500.07	499.86	-0.2093
34	30	HDR BIAS	500.08	499.82	-0.2595
35	30	HDR BIAS	500.09	499.83	-0.259
36	30	HDR UNBIAS	500.08	499.84	-0.243
37	30	HDR UNBIAS	500.02	499.81	-0.2108
38	30	HDR UNBIAS	500.05	499.79	-0.2583
39	30	HDR UNBIAS	500.03	499.84	-0.1914
40	30	HDR UNBIAS	500.02	499.81	-0.2112
41	50	HDR BIAS	500.03	499.81	-0.2231
42	50	HDR BIAS	500.04	499.87	-0.1677
43	50	HDR BIAS	500.02	499.8	-0.2219
44	50	HDR BIAS	500.05	499.79	-0.2661
45	50	HDR BIAS	500.03	499.82	-0.2155
46	50	HDR UNBIAS	500.02	499.83	-0.1904
47	50	HDR UNBIAS	500.06	499.83	-0.2268
48	50	HDR UNBIAS	500.04	499.84	-0.1992
49	50	HDR UNBIAS	500.05	499.81	-0.2474
50	50	HDR UNBIAS	500.03	499.83	-0.202
71	0	CORRELATION	500.03	499.85	-0.1786
72	0	CORRELATION	500.09	499.83	-0.2522
73	0	CORRELATION	500.06	499.84	-0.2202

### TID vs Post - Pre Exposure Delta

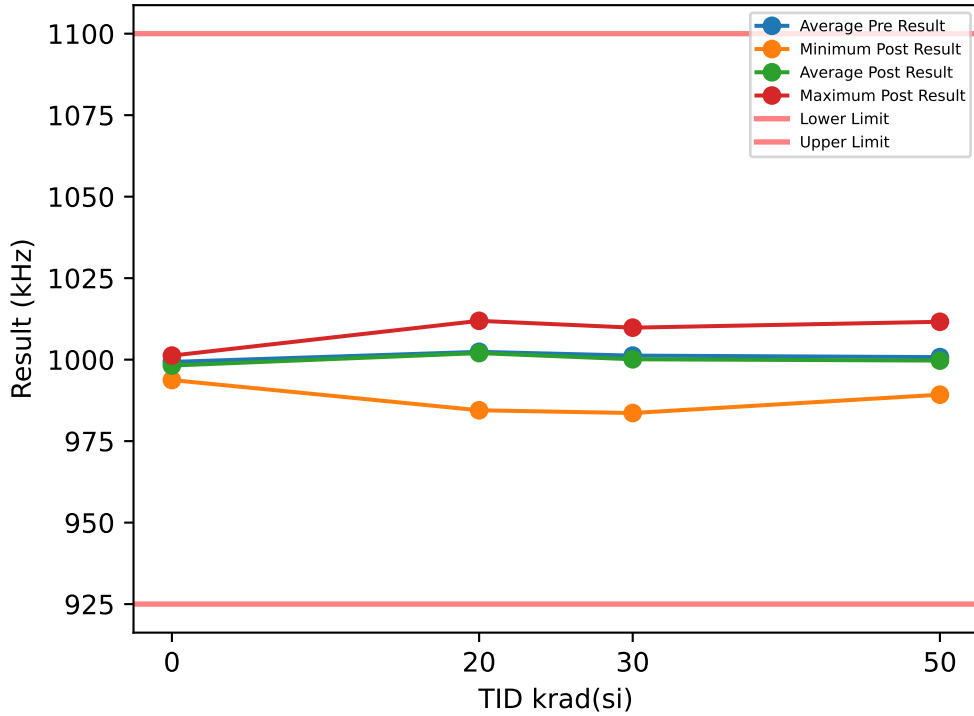


### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.03	500.06	500.09	0.02995	499.83	499.84	499.85	0.0073786	-0.2522	-0.217	-0.1786	0.036904
20	500.02	500.05	500.09	0.023276	499.78	499.83	499.87	0.029178	-0.2931	-0.22582	-0.1834	0.032108
30	500.02	500.06	500.09	0.027103	499.79	499.83	499.86	0.020326	-0.2595	-0.23289	-0.1914	0.025429
50	500.02	500.04	500.06	0.013302	499.79	499.82	499.87	0.023337	-0.2661	-0.21601	-0.1677	0.028215

# Device Test: 20.55 LEVEL|FREQ/RT/4.5/4.5/0/0/4.5/1MHz//@FSW\_EXT\_RT\_D

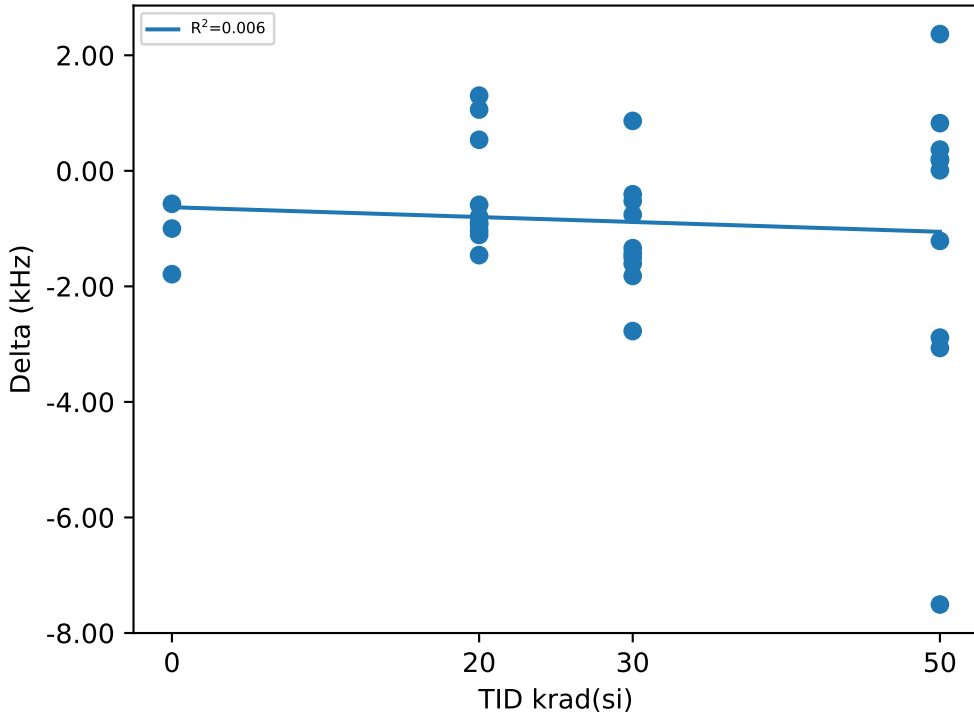
### TID vs Result Stats



### Test Results (Lower Limit = 925.0, Upper Limit = 1100.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1012.5	1011.9	-0.5888
22	20	HDR BIAS	995.39	994.49	-0.8991
23	20	HDR BIAS	1002.9	1003.9	1.0605
24	20	HDR BIAS	985.26	984.47	-0.7952
25	20	HDR BIAS	1010.7	1009.2	-1.4592
26	20	HDR UNBIAS	1005.3	1004.2	-1.0335
27	20	HDR UNBIAS	992.88	994.18	1.3017
28	20	HDR UNBIAS	1005.2	1005.7	0.5371
29	20	HDR UNBIAS	1006.6	1005.5	-1.1104
30	20	HDR UNBIAS	1007.4	1006.4	-0.936
31	30	HDR BIAS	995.99	996.86	0.8643
32	30	HDR BIAS	1010.1	1009.6	-0.5219
33	30	HDR BIAS	999.77	998.33	-1.4341
34	30	HDR BIAS	985.44	983.62	-1.8191
35	30	HDR BIAS	1004.7	1001.9	-2.7737
36	30	HDR UNBIAS	1006.7	1005.9	-0.7594
37	30	HDR UNBIAS	1000.8	1000.4	-0.4059
38	30	HDR UNBIAS	999.09	997.59	-1.4992
39	30	HDR UNBIAS	1011.4	1009.8	-1.6071
40	30	HDR UNBIAS	998.45	997.11	-1.3383
41	50	HDR BIAS	1000.4	997.36	-3.0659
42	50	HDR BIAS	1002.5	999.64	-2.8874
43	50	HDR BIAS	991.75	992.12	0.3675
44	50	HDR BIAS	1004.3	1004.5	0.2037
45	50	HDR BIAS	994.89	994.9	0.0098
46	50	HDR UNBIAS	1001.9	1002.1	0.1808
47	50	HDR UNBIAS	1003	1001.8	-1.2129
48	50	HDR UNBIAS	996.75	989.25	-7.5069
49	50	HDR UNBIAS	1003	1003.8	0.8254
50	50	HDR UNBIAS	1009.2	1011.6	2.3669
71	0	CORRELATION	994.74	993.74	-0.9995
72	0	CORRELATION	1001.4	999.57	-1.7891
73	0	CORRELATION	1001.8	1001.2	-0.5708

### TID vs Post - Pre Exposure Delta



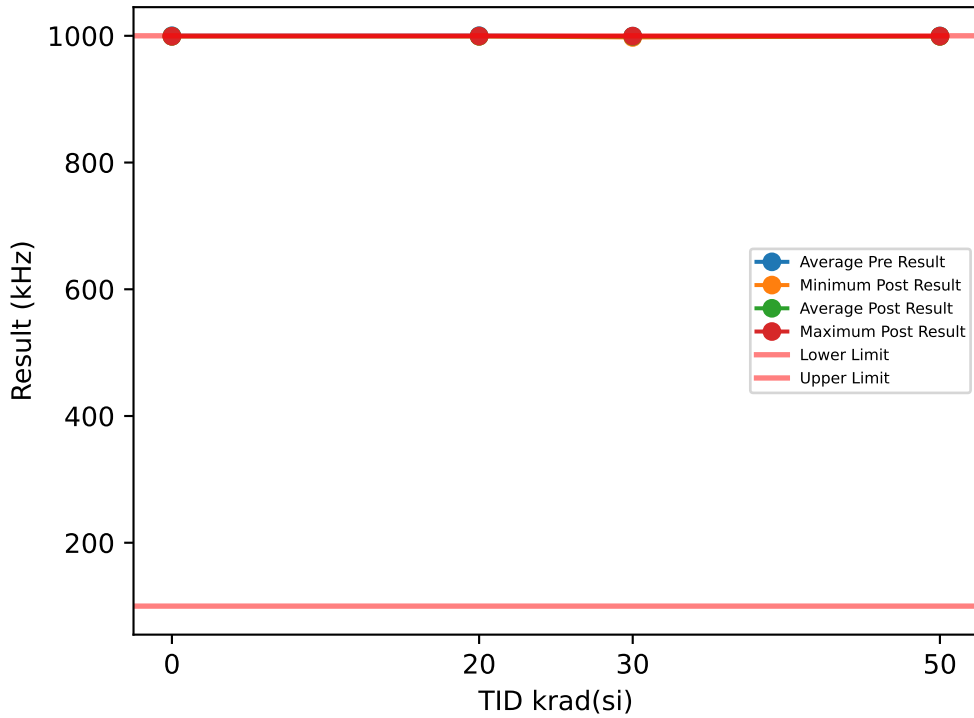
### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	994.74	999.3	1001.8	3.96	993.74	998.18	1001.2	3.9385	-1.7891	-1.1198	-0.5708	0.61799
20	985.26	1002.4	1012.5	8.5806	984.47	1002	1011.9	8.3643	-1.4592	-0.39229	1.3017	0.98107
30	985.44	1001.2	1011.4	7.5645	983.62	1000.1	1009.8	7.6107	-2.7737	-1.1294	0.8643	0.98235
50	991.75	1000.8	1009.2	5.0656	989.25	999.71	1011.6	6.5611	-7.5069	-1.0719	2.3669	2.8001



Device Test: 20.56 LEVEL|FREQ/SYNC/4.5/4.5/0/0/4.5/1MHz//@FREQ\_SYNC\_EXT

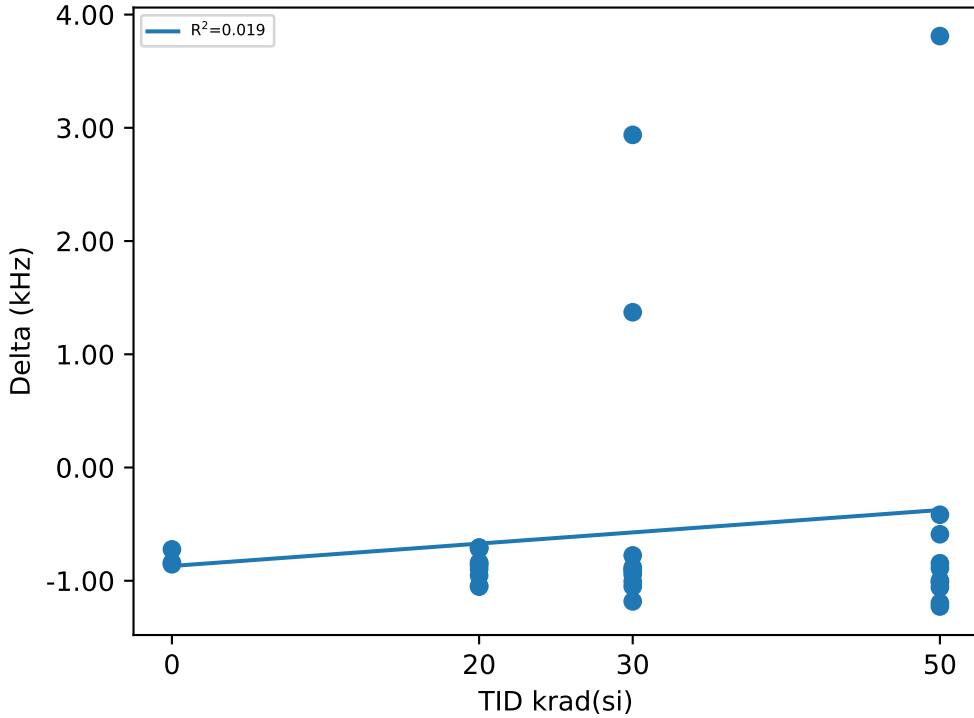
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1000.4	999.58	-0.8644
22	20	HDR BIAS	999.99	999.27	-0.7167
23	20	HDR BIAS	1000.3	999.3	-1.052
24	20	HDR BIAS	1000.2	999.31	-0.8968
25	20	HDR BIAS	999.98	999.27	-0.7087
26	20	HDR UNBIAS	1000.5	999.41	-1.0456
27	20	HDR UNBIAS	1000.2	999.51	-0.7069
28	20	HDR UNBIAS	1000	999.21	-0.8376
29	20	HDR UNBIAS	1000.1	999.13	-0.9545
30	20	HDR UNBIAS	1000.2	999.34	-0.8493
31	30	HDR BIAS	1000.2	999.44	-0.7763
32	30	HDR BIAS	1000.1	999.18	-0.9048
33	30	HDR BIAS	996.01	997.38	1.371
34	30	HDR BIAS	1000.3	999.26	-1.0059
35	30	HDR BIAS	996.19	999.13	2.9376
36	30	HDR UNBIAS	1000.5	999.51	-0.9438
37	30	HDR UNBIAS	1000.4	999.19	-1.1822
38	30	HDR UNBIAS	1000.3	999.4	-0.9036
39	30	HDR UNBIAS	1000.4	999.36	-1.0504
40	30	HDR UNBIAS	1000.1	999.21	-0.8812
41	50	HDR BIAS	1000.4	999.13	-1.2275
42	50	HDR BIAS	995.53	999.34	3.8101
43	50	HDR BIAS	1000.1	999.27	-0.8455
44	50	HDR BIAS	1000.3	999.11	-1.1955
45	50	HDR BIAS	1000.4	999.33	-1.0585
46	50	HDR UNBIAS	1000	999.44	-0.5893
47	50	HDR UNBIAS	1000.1	999.2	-0.8892
48	50	HDR UNBIAS	1000.4	999.36	-0.9975
49	50	HDR UNBIAS	999.9	999.48	-0.4172
50	50	HDR UNBIAS	1000.4	999.34	-1.0124
71	0	CORRELATION	1000.1	999.23	-0.8397
72	0	CORRELATION	1000.2	999.3	-0.8546
73	0	CORRELATION	1000.1	999.33	-0.723

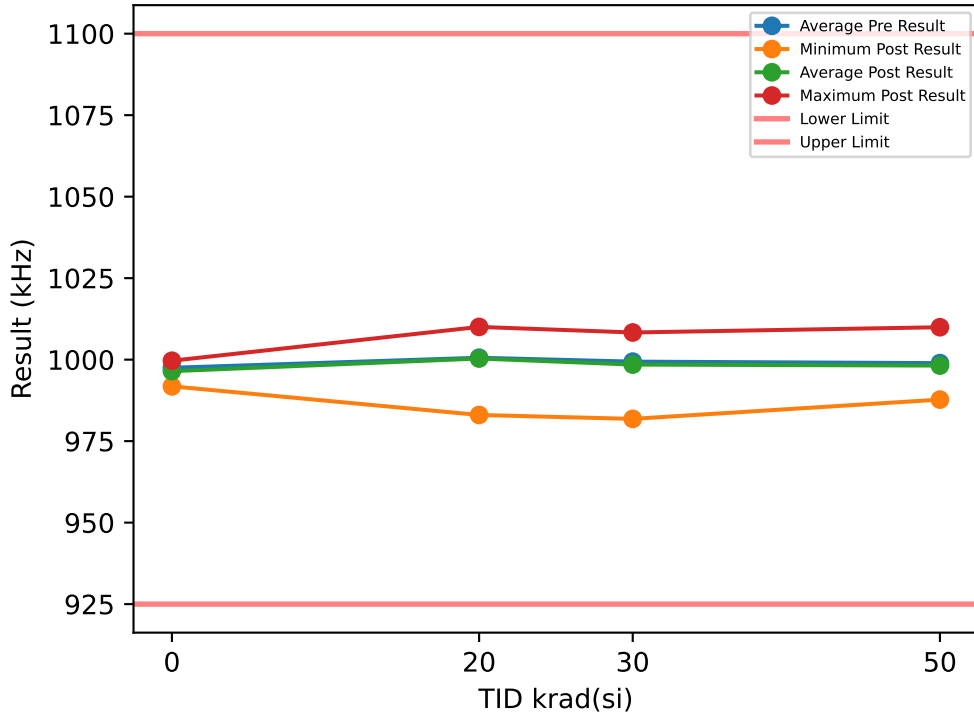
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000.1	1000.1	1000.2	0.056092	999.23	999.29	999.33	0.04989	-0.8546	-0.80577	-0.723	0.072064
20	999.98	1000.2	1000.5	0.175	999.13	999.33	999.58	0.13436	-1.052	-0.86325	-0.7069	0.12866
30	996.01	999.44	1000.5	1.765	997.38	999.11	999.51	0.61985	-1.1822	-0.33396	2.9376	1.3667
50	995.53	999.74	1000.4	1.4891	999.11	999.3	999.48	0.12202	-1.2275	-0.44225	3.8101	1.5153

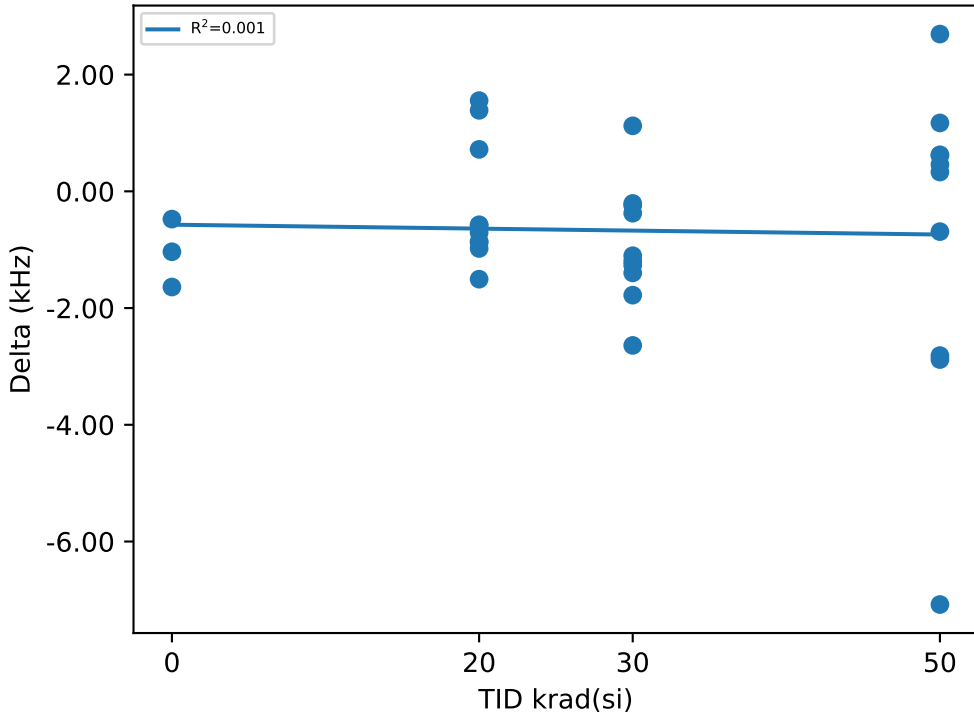
TID vs Result Stats



Test Results (Lower Limit = 925.0, Upper Limit = 1100.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1010.6	1010	-0.5843
22	20	HDR BIAS	993.59	992.71	-0.877
23	20	HDR BIAS	1001	1002.4	1.388
24	20	HDR BIAS	983.6	983.03	-0.5726
25	20	HDR BIAS	1008.9	1007.4	-1.5053
26	20	HDR UNBIAS	1003.4	1002.5	-0.8572
27	20	HDR UNBIAS	991.16	992.71	1.5543
28	20	HDR UNBIAS	1003.1	1003.8	0.7189
29	20	HDR UNBIAS	1005	1004	-0.9792
30	20	HDR UNBIAS	1005.5	1004.8	-0.7097
31	30	HDR BIAS	994.01	995.13	1.1227
32	30	HDR BIAS	1008.2	1008	-0.2072
33	30	HDR BIAS	997.88	996.61	-1.2665
34	30	HDR BIAS	983.61	981.83	-1.7789
35	30	HDR BIAS	1003	1000.3	-2.6399
36	30	HDR UNBIAS	1004.7	1004.3	-0.3746
37	30	HDR UNBIAS	998.9	998.66	-0.2438
38	30	HDR UNBIAS	997.3	996.1	-1.1985
39	30	HDR UNBIAS	1009.7	1008.3	-1.3975
40	30	HDR UNBIAS	996.6	995.49	-1.1033
41	50	HDR BIAS	998.69	995.81	-2.8822
42	50	HDR BIAS	1000.6	997.81	-2.8141
43	50	HDR BIAS	989.92	990.53	0.6142
44	50	HDR BIAS	1002.4	1002.8	0.4587
45	50	HDR BIAS	993.1	993.43	0.3305
46	50	HDR UNBIAS	1000.3	1001	0.6257
47	50	HDR UNBIAS	1001.3	1000.6	-0.6903
48	50	HDR UNBIAS	994.82	987.74	-7.0793
49	50	HDR UNBIAS	1000.9	1002.1	1.1718
50	50	HDR UNBIAS	1007.2	1009.9	2.6943
71	0	CORRELATION	992.84	991.81	-1.0353
72	0	CORRELATION	999.55	997.91	-1.6394
73	0	CORRELATION	1000.1	999.67	-0.4759

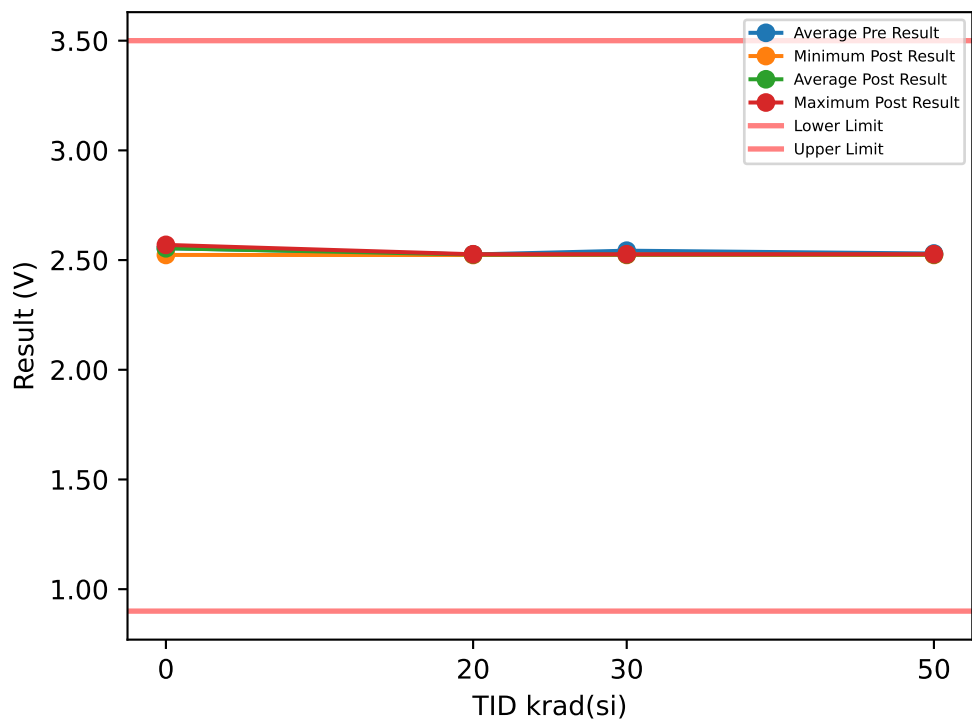
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	992.84	997.51	1000.1	4.0546	991.81	996.46	999.67	4.1259	-1.6394	-1.0502	-0.4759	0.58189
20	983.6	1000.6	1010.6	8.5241	983.03	1000.3	1010	8.2615	-1.5053	-0.24241	1.5543	1.0632
30	983.61	999.39	1009.7	7.5942	981.83	998.49	1008.3	7.6926	-2.6399	-0.90875	1.1227	1.0322
50	989.92	998.93	1007.2	5.0282	987.74	998.18	1009.9	6.5374	-7.0793	-0.75707	2.6943	2.8049

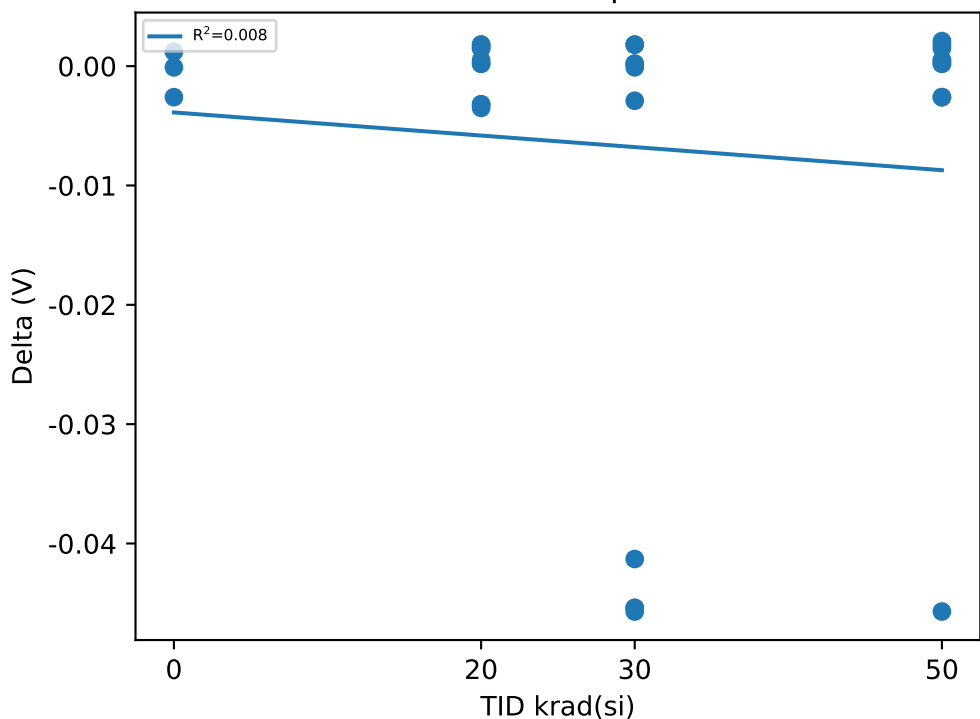
TID vs Result Stats



Test Results (Lower Limit = 0.9, Upper Limit = 3.5 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.5247	2.5265	0.0018
22	20	HDR BIAS	2.5269	2.5234	-0.0035
23	20	HDR BIAS	2.526	2.5262	0.0002
24	20	HDR BIAS	2.5247	2.5265	0.0018
25	20	HDR BIAS	2.5266	2.5234	-0.0032
26	20	HDR UNBIAS	2.5254	2.5259	0.0005
27	20	HDR UNBIAS	2.5247	2.5262	0.0015
28	20	HDR UNBIAS	2.5263	2.5231	-0.0032
29	20	HDR UNBIAS	2.5257	2.5259	0.0002
30	20	HDR UNBIAS	2.5247	2.5262	0.0015
31	30	HDR BIAS	2.5688	2.5234	-0.0454
32	30	HDR BIAS	2.526	2.5262	0.0002
33	30	HDR BIAS	2.5678	2.5265	-0.0413
34	30	HDR BIAS	2.5694	2.5237	-0.0457
35	30	HDR BIAS	2.5257	2.5259	0.0002
36	30	HDR UNBIAS	2.5247	2.5265	0.0018
37	30	HDR UNBIAS	2.5691	2.5237	-0.0454
38	30	HDR UNBIAS	2.526	2.5259	-0.0001
39	30	HDR UNBIAS	2.5247	2.5265	0.0018
40	30	HDR UNBIAS	2.5263	2.5234	-0.0029
41	50	HDR BIAS	2.5257	2.5262	0.0005
42	50	HDR BIAS	2.5247	2.5265	0.0018
43	50	HDR BIAS	2.5691	2.5234	-0.0457
44	50	HDR BIAS	2.5257	2.5262	0.0005
45	50	HDR BIAS	2.525	2.5265	0.0015
46	50	HDR UNBIAS	2.5263	2.5237	-0.0026
47	50	HDR UNBIAS	2.526	2.5262	0.0002
48	50	HDR UNBIAS	2.5247	2.5268	0.0021
49	50	HDR UNBIAS	2.5263	2.5237	-0.0026
50	50	HDR UNBIAS	2.5257	2.5259	0.0002
71	0	CORRELATION	2.526	2.5234	-0.0026
72	0	CORRELATION	2.5675	2.5687	0.0012
73	0	CORRELATION	2.5694	2.5693	-0.0001

TID vs Post - Pre Exposure Delta

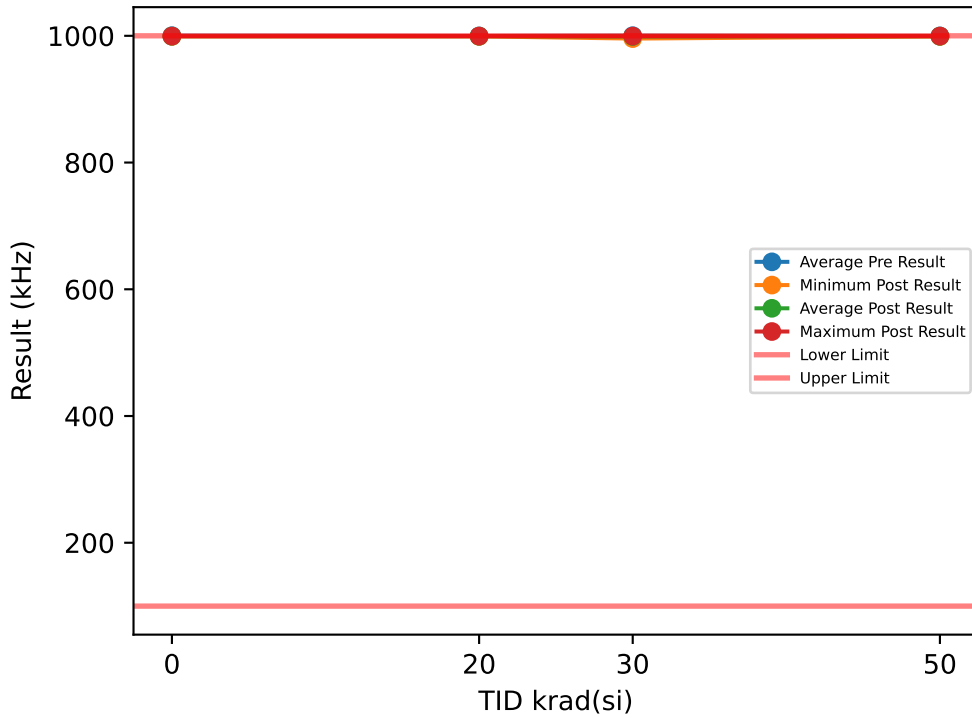


Test Statistics (V)

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	2.526	2.5543	2.5694	0.024527	2.5234	2.5538	2.5693	0.026329	-0.0026	-0.0005	0.0012	0.0019313
20	2.5247	2.5256	2.5269	0.00085771	2.5231	2.5253	2.5265	0.0014174	-0.0035	-0.00024	0.0018	0.0021976
30	2.5247	2.5429	2.5694	0.022322	2.5234	2.5252	2.5265	0.001415	-0.0457	-0.01768	0.0018	0.023108
50	2.5247	2.5299	2.5691	0.013779	2.5234	2.5255	2.5268	0.001342	-0.0457	-0.00441	0.0021	0.014598

Device Test: 20.60 LEVEL|FREQ/SYNC/5/5/0/0/5/1MHz//@FREQ\_SYNC\_EXT

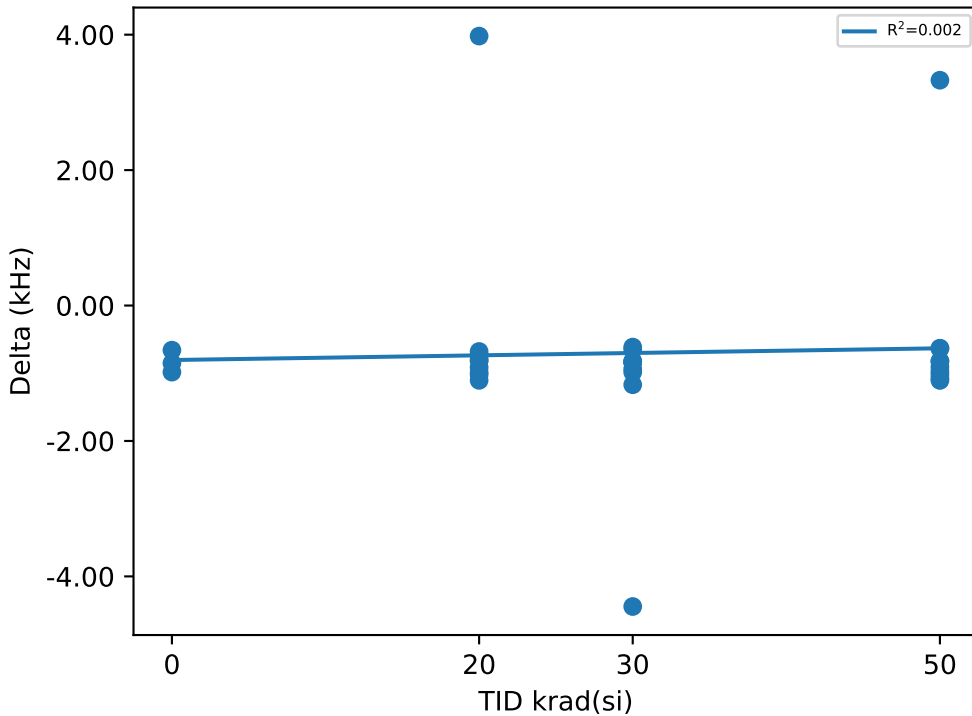
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1000.2	999.49	-0.7348
22	20	HDR BIAS	1000.4	999.38	-1.0223
23	20	HDR BIAS	1000.3	999.28	-0.9852
24	20	HDR BIAS	1000.4	999.51	-0.9132
25	20	HDR BIAS	1000.1	999.26	-0.8085
26	20	HDR UNBIAS	1000.1	999.41	-0.7336
27	20	HDR UNBIAS	1000.4	999.54	-0.8125
28	20	HDR UNBIAS	995.4	999.38	3.9792
29	20	HDR UNBIAS	1000.2	999.14	-1.1049
30	20	HDR UNBIAS	1000.2	999.55	-0.6784
31	30	HDR BIAS	1000	995.6	-4.4447
32	30	HDR BIAS	1000.2	999.18	-0.9849
33	30	HDR BIAS	1000.1	999.5	-0.6134
34	30	HDR BIAS	1000.1	999.43	-0.6438
35	30	HDR BIAS	1000.1	999.28	-0.8345
36	30	HDR UNBIAS	1000.3	999.52	-0.8185
37	30	HDR UNBIAS	1000.1	999.21	-0.9364
38	30	HDR UNBIAS	1000.3	999.11	-1.1695
39	30	HDR UNBIAS	1000.4	999.52	-0.8379
40	30	HDR UNBIAS	1000.2	999.39	-0.8355
41	50	HDR BIAS	1000.1	999.1	-1.02
42	50	HDR BIAS	996.17	999.5	3.3275
43	50	HDR BIAS	1000.3	999.31	-0.9735
44	50	HDR BIAS	1000.3	999.19	-1.1061
45	50	HDR BIAS	1000.4	999.55	-0.8226
46	50	HDR UNBIAS	1000.1	999.43	-0.6305
47	50	HDR UNBIAS	1000.3	999.2	-1.0763
48	50	HDR UNBIAS	1000.2	999.55	-0.6334
49	50	HDR UNBIAS	1000.1	999.25	-0.8217
50	50	HDR UNBIAS	1000.3	999.37	-0.9076
71	0	CORRELATION	1000.1	999.43	-0.6587
72	0	CORRELATION	1000.2	999.18	-0.9834
73	0	CORRELATION	1000.4	999.51	-0.8516

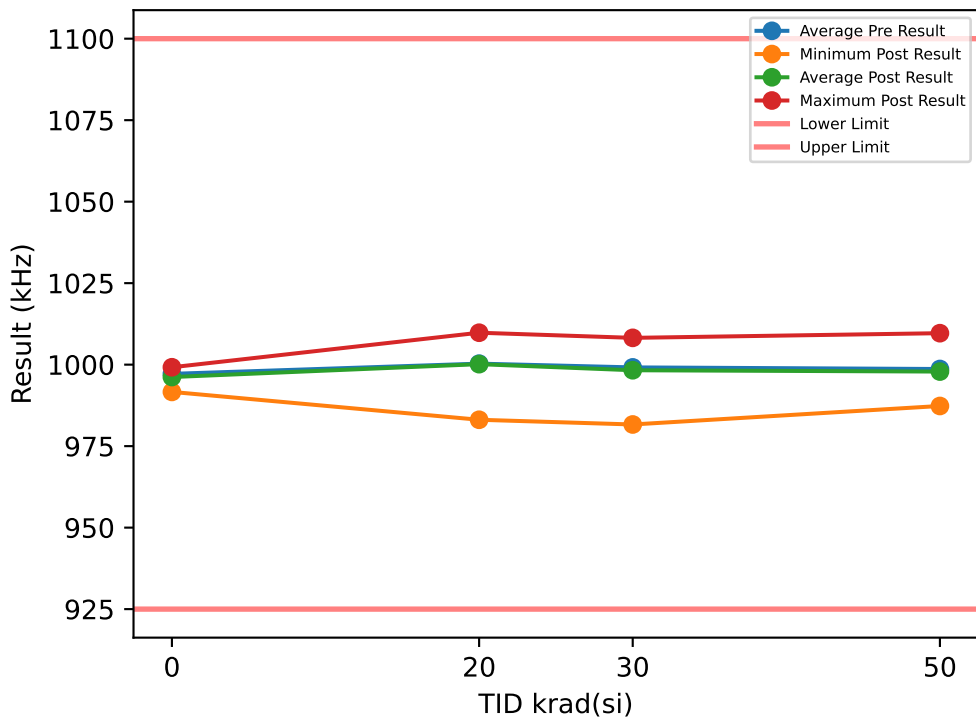
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000.1	1000.2	1000.4	0.14362	999.18	999.37	999.51	0.17621	-0.9834	-0.83123	-0.6587	0.16331
20	995.4	999.78	1000.4	1.5401	999.14	999.4	999.55	0.13609	-1.1049	-0.38142	3.9792	1.5385
30	1000	1000.2	1000.4	0.11028	995.6	998.97	999.52	1.1955	-4.4447	-1.2119	-0.6134	1.147
50	996.17	999.81	1000.4	1.283	999.1	999.34	999.55	0.16122	-1.1061	-0.46642	3.3275	1.3433

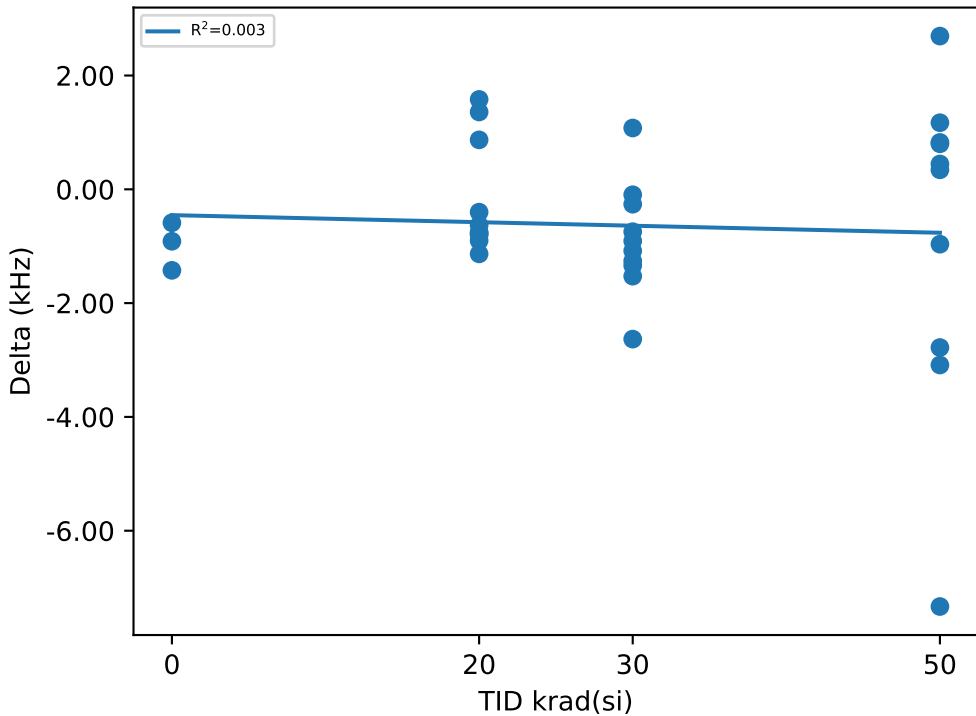
TID vs Result Stats



Test Results (Lower Limit = 925.0, Upper Limit = 1100.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1010.4	1009.8	-0.6287
22	20	HDR BIAS	993.27	992.47	-0.8013
23	20	HDR BIAS	1000.7	1002	1.359
24	20	HDR BIAS	983.49	983.09	-0.4012
25	20	HDR BIAS	1008.5	1007.4	-1.1347
26	20	HDR UNBIAS	1002.9	1002.2	-0.7521
27	20	HDR UNBIAS	990.91	992.49	1.58
28	20	HDR UNBIAS	1002.8	1003.6	0.8691
29	20	HDR UNBIAS	1004.7	1003.8	-0.9021
30	20	HDR UNBIAS	1005.4	1004.7	-0.7763
31	30	HDR BIAS	993.65	994.73	1.078
32	30	HDR BIAS	1008	1007.7	-0.2615
33	30	HDR BIAS	997.48	996.4	-1.0812
34	30	HDR BIAS	983.17	981.64	-1.5262
35	30	HDR BIAS	1002.7	1000.1	-2.6327
36	30	HDR UNBIAS	1004.7	1003.9	-0.745
37	30	HDR UNBIAS	998.59	998.49	-0.0957
38	30	HDR UNBIAS	997.37	996.03	-1.3389
39	30	HDR UNBIAS	1009.5	1008.2	-1.2585
40	30	HDR UNBIAS	996.49	995.59	-0.9076
41	50	HDR BIAS	998.68	995.59	-3.0874
42	50	HDR BIAS	1000.4	997.64	-2.7804
43	50	HDR BIAS	989.55	990.37	0.824
44	50	HDR BIAS	1002.1	1002.6	0.4451
45	50	HDR BIAS	992.67	993.02	0.3429
46	50	HDR UNBIAS	999.92	1000.7	0.8001
47	50	HDR UNBIAS	1001.1	1000.1	-0.9643
48	50	HDR UNBIAS	994.65	987.32	-7.3321
49	50	HDR UNBIAS	1000.6	1001.7	1.1705
50	50	HDR UNBIAS	1007	1009.7	2.6931
71	0	CORRELATION	992.54	991.63	-0.9127
72	0	CORRELATION	999.19	997.77	-1.424
73	0	CORRELATION	999.79	999.2	-0.588

TID vs Post - Pre Exposure Delta

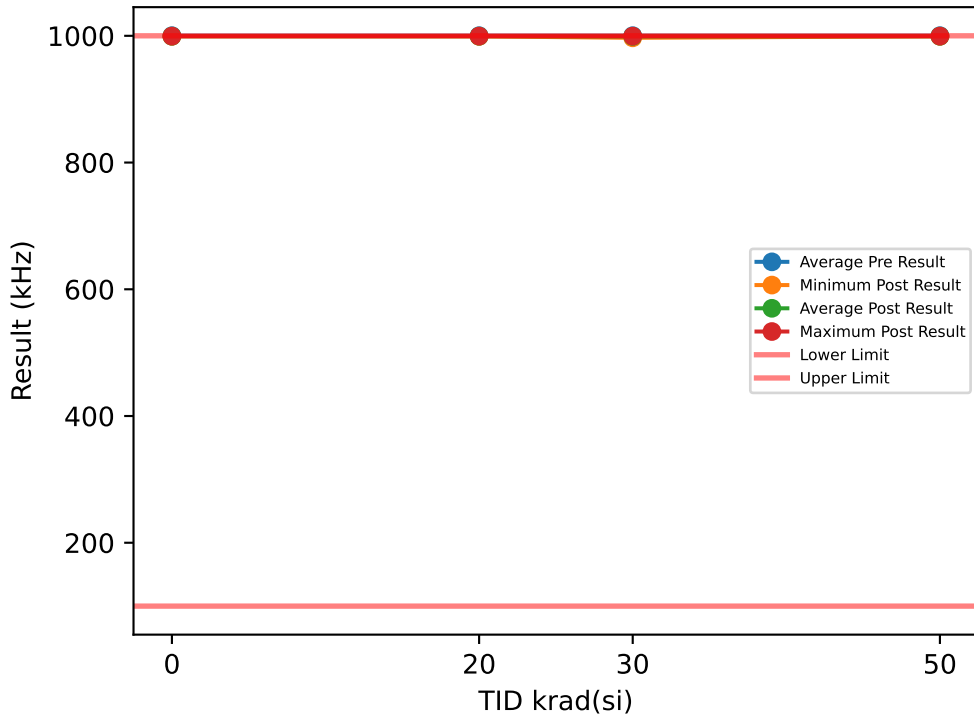


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	992.54	997.17	999.79	4.0208	991.63	996.2	999.2	4.0201	-1.424	-0.9749	-0.588	0.42146
20	983.49	1000.3	1010.4	8.4897	983.09	1000.1	1009.8	8.2139	-1.1347	-0.15883	1.58	1.0173
30	983.17	999.16	1009.5	7.6493	981.64	998.28	1008.2	7.6613	-2.6327	-0.87693	1.078	0.98512
50	989.55	998.67	1007	5.0579	987.32	997.88	1009.7	6.5462	-7.3321	-0.78885	2.6931	2.9057

# Device Test: 20.64 LEVEL|FREQ/SYNC/12/12/0/0/5/1MHz//@FREQ\_SYNC\_EXT

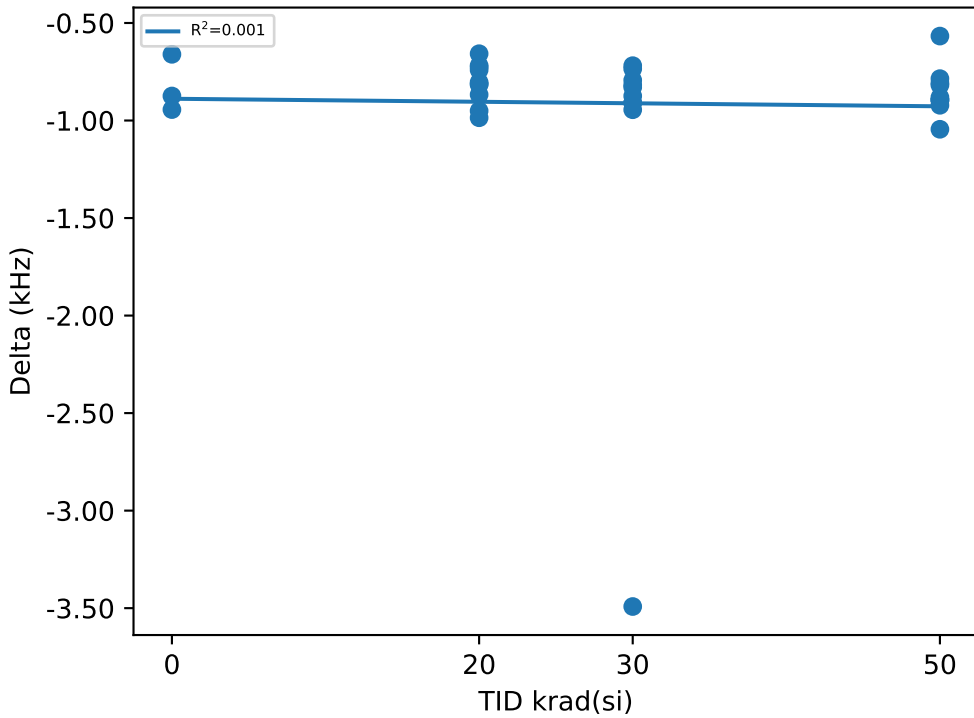
### TID vs Result Stats



### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1000.4	999.51	-0.8673
22	20	HDR BIAS	1000.3	999.39	-0.9504
23	20	HDR BIAS	1000.1	999.4	-0.7263
24	20	HDR BIAS	1000.3	999.48	-0.8038
25	20	HDR BIAS	1000.2	999.39	-0.8126
26	20	HDR UNBIAS	1000.1	999.12	-0.9858
27	20	HDR UNBIAS	1000.2	999.46	-0.7182
28	20	HDR UNBIAS	1000	999.36	-0.6575
29	20	HDR UNBIAS	1000.1	999.32	-0.8159
30	20	HDR UNBIAS	1000.3	999.52	-0.7409
31	30	HDR BIAS	1000.2	999.46	-0.7933
32	30	HDR BIAS	1000.1	999.19	-0.9447
33	30	HDR BIAS	1000.4	999.49	-0.8742
34	30	HDR BIAS	1000.2	999.32	-0.909
35	30	HDR BIAS	1000.1	999.19	-0.9094
36	30	HDR UNBIAS	1000.2	999.46	-0.7188
37	30	HDR UNBIAS	1000.1	999.24	-0.8293
38	30	HDR UNBIAS	1000.3	996.81	-3.4916
39	30	HDR UNBIAS	1000.2	999.49	-0.7349
40	30	HDR UNBIAS	1000.2	999.38	-0.8179
41	50	HDR BIAS	1000.3	999.35	-0.9219
42	50	HDR BIAS	1000.2	999.39	-0.8082
43	50	HDR BIAS	1000.3	999.37	-0.8954
44	50	HDR BIAS	1000.3	999.23	-1.0449
45	50	HDR BIAS	1000.4	999.51	-0.8937
46	50	HDR UNBIAS	1000.2	999.36	-0.8183
47	50	HDR UNBIAS	1000.2	999.28	-0.8811
48	50	HDR UNBIAS	1000.2	999.33	-0.8954
49	50	HDR UNBIAS	1000	999.44	-0.5671
50	50	HDR UNBIAS	1000.1	999.32	-0.7853
71	0	CORRELATION	1000.2	999.24	-0.9439
72	0	CORRELATION	1000.3	999.4	-0.8743
73	0	CORRELATION	1000.2	999.52	-0.6606

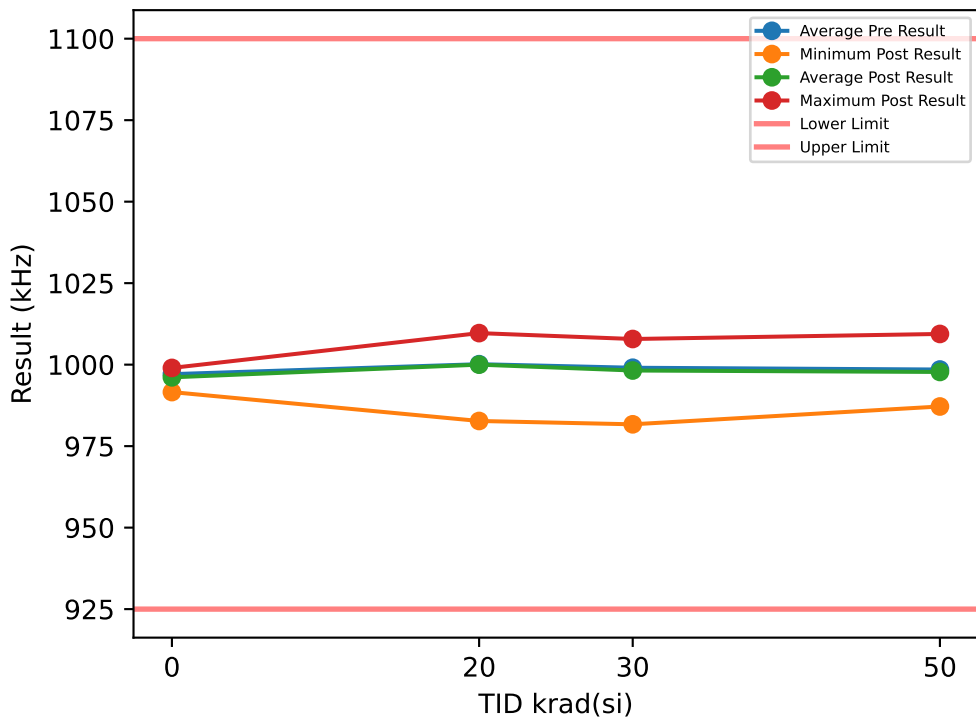
### TID vs Post - Pre Exposure Delta



### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000.2	1000.2	1000.3	0.052865	999.24	999.38	999.52	0.13945	-0.9439	-0.82627	-0.6606	0.14763
20	1000	1000.2	1000.4	0.11234	999.12	999.4	999.52	0.11706	-0.9858	-0.80787	-0.6575	0.10403
30	1000.1	1000.2	1000.4	0.088834	996.81	999.1	999.49	0.81493	-3.4916	-1.1023	-0.7188	0.84282
50	1000	1000.2	1000.4	0.10816	999.23	999.36	999.51	0.077344	-1.0449	-0.85113	-0.5671	0.12343

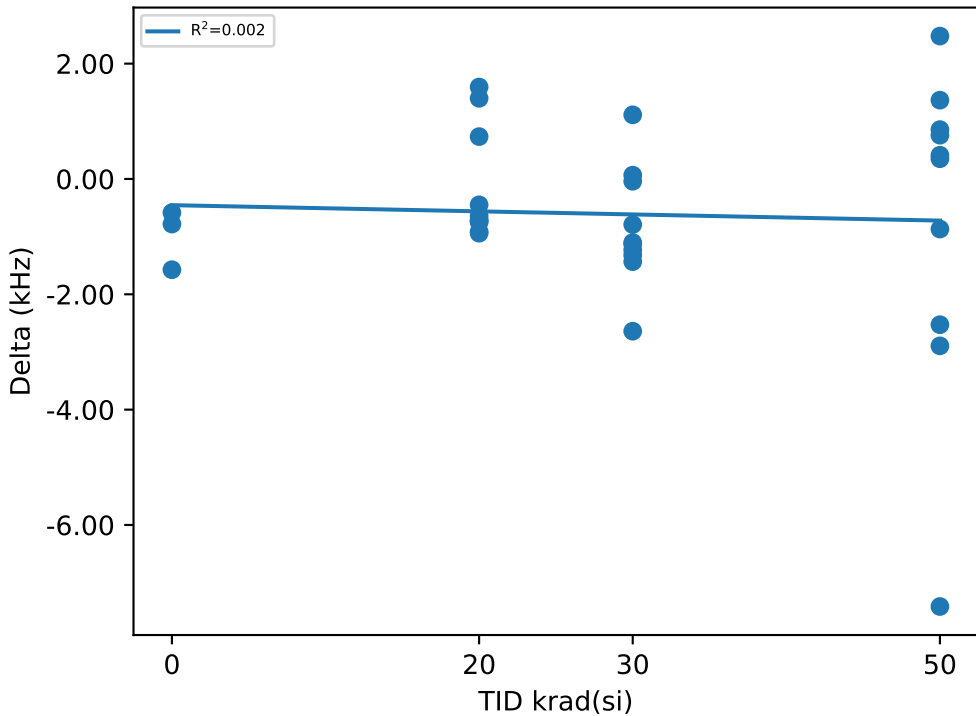
TID vs Result Stats



Test Results (Lower Limit = 925.0, Upper Limit = 1100.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1010.3	1009.7	-0.6447
22	20	HDR BIAS	993.11	992.36	-0.7512
23	20	HDR BIAS	1000.4	1001.8	1.3987
24	20	HDR BIAS	983.17	982.72	-0.4485
25	20	HDR BIAS	1008.2	1007.3	-0.9137
26	20	HDR UNBIAS	1002.8	1002.1	-0.7265
27	20	HDR UNBIAS	990.72	992.31	1.5943
28	20	HDR UNBIAS	1002.6	1003.3	0.7347
29	20	HDR UNBIAS	1004.7	1003.7	-0.9408
30	20	HDR UNBIAS	1005.3	1004.6	-0.7163
31	30	HDR BIAS	993.55	994.66	1.1121
32	30	HDR BIAS	1007.9	1007.8	-0.0397
33	30	HDR BIAS	997.31	996.21	-1.1029
34	30	HDR BIAS	983.02	981.7	-1.3229
35	30	HDR BIAS	1002.7	1000.1	-2.6399
36	30	HDR UNBIAS	1004.6	1003.8	-0.7909
37	30	HDR UNBIAS	998.39	998.46	0.0663
38	30	HDR UNBIAS	997.28	996.05	-1.2307
39	30	HDR UNBIAS	1009.3	1007.9	-1.4334
40	30	HDR UNBIAS	996.55	995.42	-1.1275
41	50	HDR BIAS	998.28	995.39	-2.8944
42	50	HDR BIAS	1000.1	997.61	-2.5273
43	50	HDR BIAS	989.41	990.26	0.856
44	50	HDR BIAS	1002.1	1002.5	0.4119
45	50	HDR BIAS	992.56	992.91	0.3509
46	50	HDR UNBIAS	999.91	1000.7	0.7584
47	50	HDR UNBIAS	1000.9	1000	-0.8685
48	50	HDR UNBIAS	994.58	987.16	-7.4142
49	50	HDR UNBIAS	1000.3	1001.6	1.3663
50	50	HDR UNBIAS	1006.9	1009.4	2.4777
71	0	CORRELATION	992.36	991.58	-0.7819
72	0	CORRELATION	999.31	997.74	-1.5738
73	0	CORRELATION	999.58	998.99	-0.5848

TID vs Post - Pre Exposure Delta



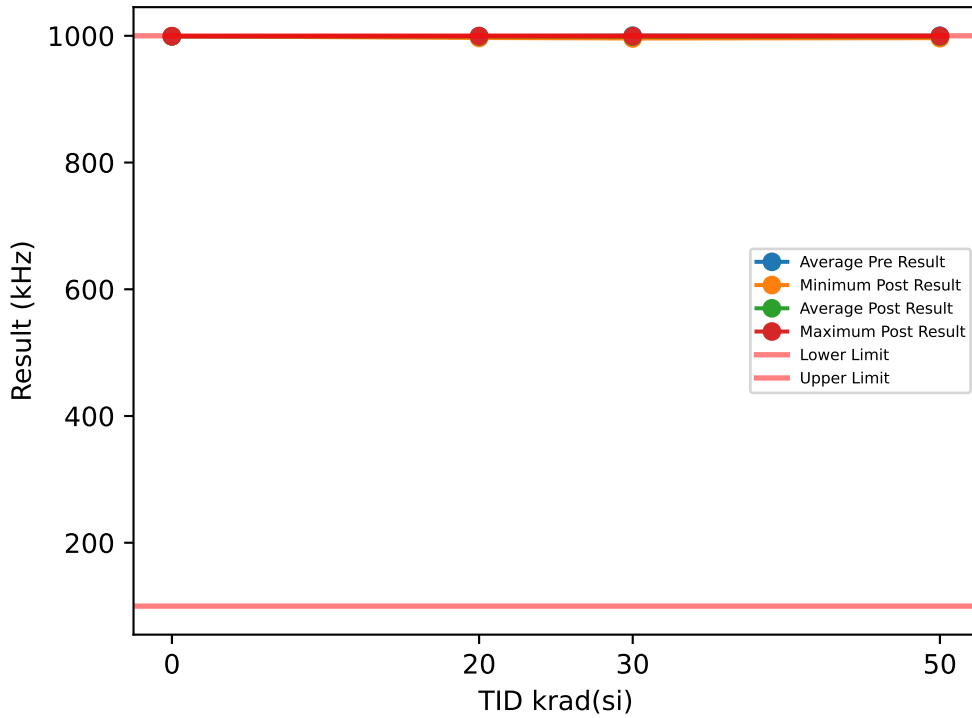
Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	992.36	997.08	999.58	4.0896	991.58	996.1	998.99	3.9659	-1.5738	-0.98017	-0.5848	0.52346
20	983.17	1000.1	1010.3	8.5386	982.72	1000	1009.7	8.2827	-0.9408	-0.1414	1.5943	0.9877
30	983.02	999.05	1009.3	7.6473	981.7	998.2	1007.9	7.613	-2.6399	-0.85095	1.1121	1.0222
50	989.41	998.51	1006.9	5.0664	987.16	997.76	1009.4	6.5378	-7.4142	-0.74832	2.4777	2.877



# Device Test: 20.68 LEVEL|FREQ/SYNC/14/14/0/0/5/1MHz//@FREQ\_SYNC\_EXT

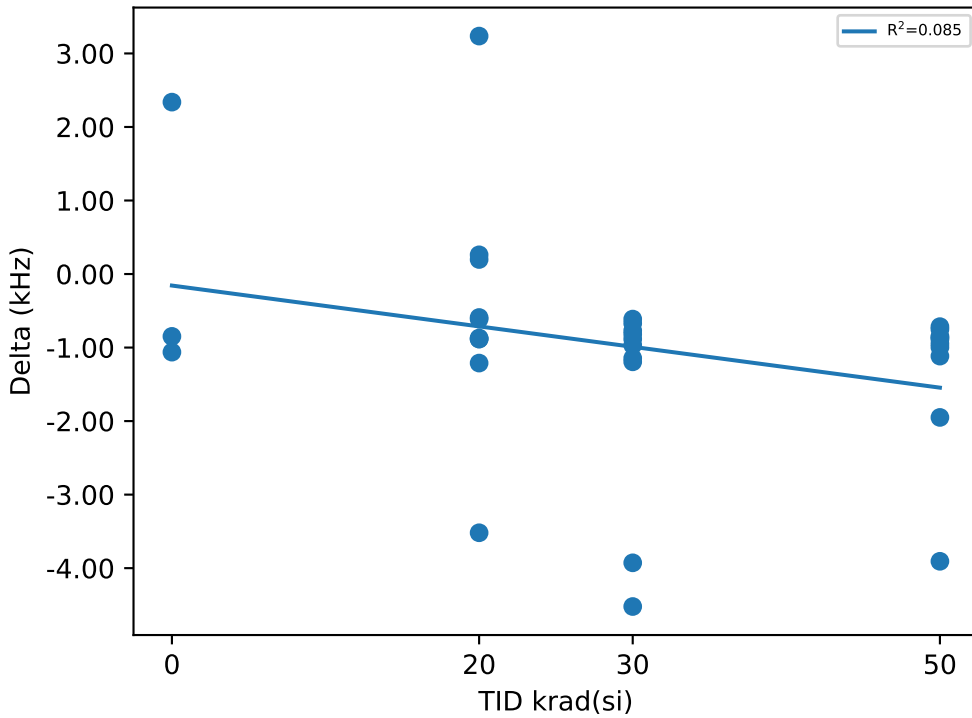
### TID vs Result Stats



### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	999.21	999.47	0.2613
22	20	HDR BIAS	1000	999.42	-0.5911
23	20	HDR BIAS	1000.3	999.11	-1.211
24	20	HDR BIAS	1000.2	999.32	-0.8699
25	20	HDR BIAS	1000.1	999.44	-0.6133
26	20	HDR UNBIAS	1000.1	996.54	-3.5188
27	20	HDR UNBIAS	1000.2	999.32	-0.8831
28	20	HDR UNBIAS	1000.1	999.2	-0.8842
29	20	HDR UNBIAS	995.89	999.13	3.2362
30	20	HDR UNBIAS	999.13	999.33	0.1978
31	30	HDR BIAS	1000	999.4	-0.6127
32	30	HDR BIAS	1000.3	999.12	-1.194
33	30	HDR BIAS	1000.3	995.75	-4.5218
34	30	HDR BIAS	1000.1	999.26	-0.8183
35	30	HDR BIAS	1000.3	999.12	-1.1444
36	30	HDR UNBIAS	1000.3	999.35	-0.9675
37	30	HDR UNBIAS	1000.1	999.39	-0.671
38	30	HDR UNBIAS	1000.1	999.24	-0.884
39	30	HDR UNBIAS	1000.3	996.4	-3.9275
40	30	HDR UNBIAS	1000.2	999.38	-0.7693
41	50	HDR BIAS	1000.1	999.32	-0.7516
42	50	HDR BIAS	1000.2	999.47	-0.7155
43	50	HDR BIAS	1000.2	999.19	-0.9962
44	50	HDR BIAS	1000.2	999.12	-1.1164
45	50	HDR BIAS	1000.2	999.29	-0.8883
46	50	HDR UNBIAS	1000.2	998.26	-1.95
47	50	HDR UNBIAS	1000.1	996.22	-3.9068
48	50	HDR UNBIAS	1000.2	999.3	-0.9486
49	50	HDR UNBIAS	1000.1	999.21	-0.8629
50	50	HDR UNBIAS	1000.1	999.27	-0.8476
71	0	CORRELATION	1000.1	999.21	-0.8478
72	0	CORRELATION	1000.3	999.19	-1.0623
73	0	CORRELATION	997.03	999.37	2.338

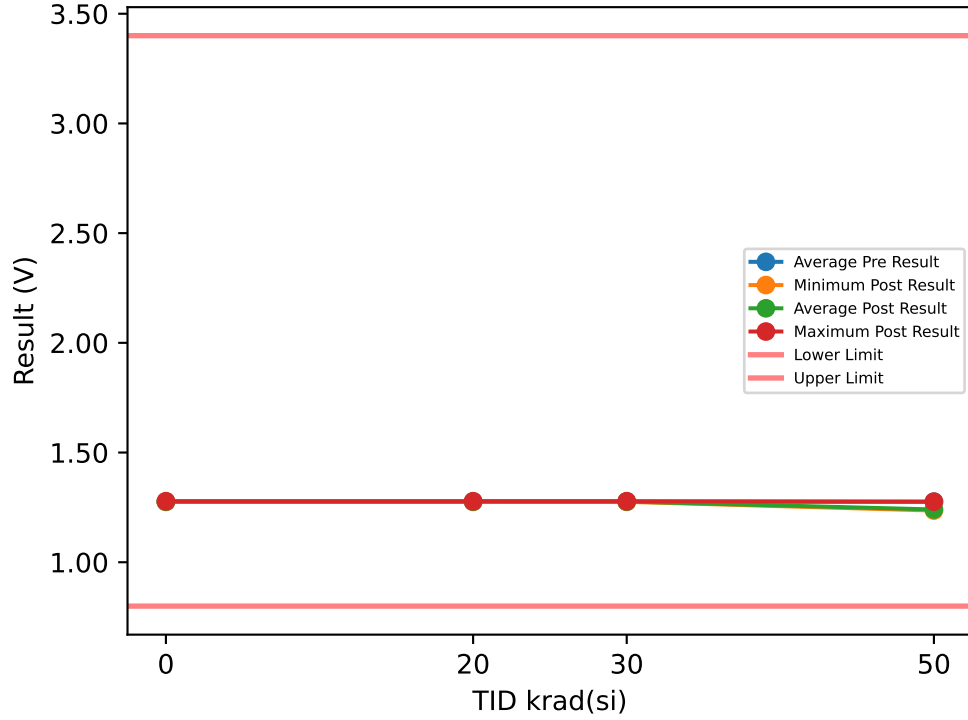
### TID vs Post - Pre Exposure Delta



### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	997.03	999.12	1000.3	1.8087	999.19	999.26	999.37	0.095625	-1.0623	0.14263	2.338	1.9043
20	995.89	999.52	1000.3	1.3369	996.54	999.03	999.47	0.88475	-3.5188	-0.48761	3.2362	1.6698
30	1000	1000.2	1000.3	0.11979	995.75	998.64	999.4	1.3671	-4.5218	-1.551	-0.6127	1.4281
50	1000.1	1000.2	1000.2	0.063163	996.22	998.86	999.47	0.98588	-3.9068	-1.2984	-0.7155	0.98178

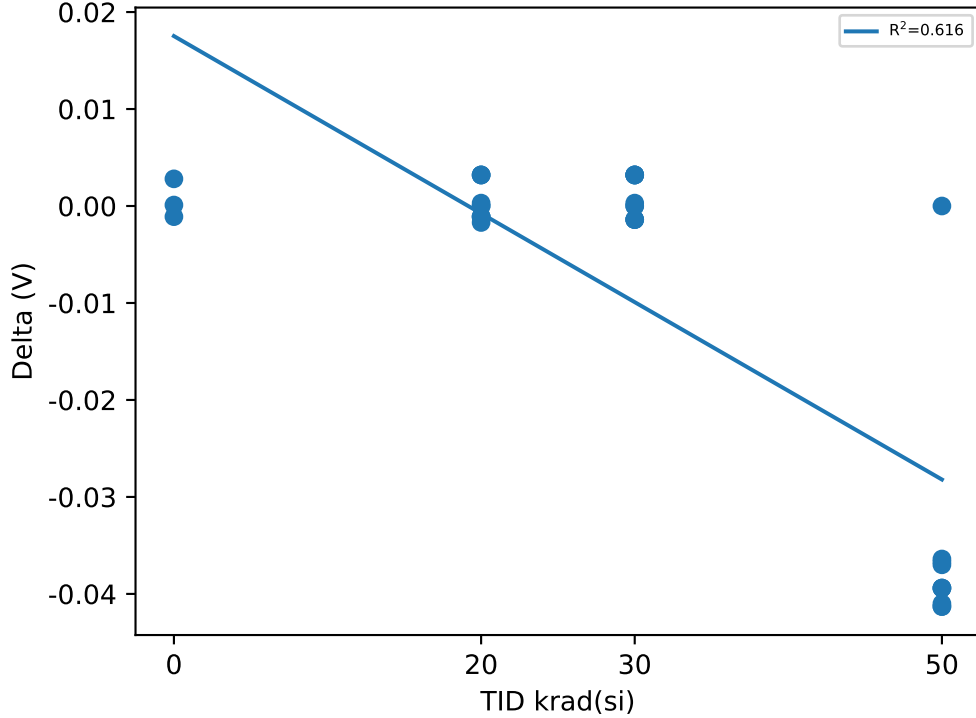
TID vs Result Stats



Test Results (Lower Limit = 0.8, Upper Limit = 3.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2765	1.2754	-0.0011
22	20	HDR BIAS	1.275	1.2782	0.0032
23	20	HDR BIAS	1.2757	1.2757	0
24	20	HDR BIAS	1.2765	1.2754	-0.0011
25	20	HDR BIAS	1.275	1.2782	0.0032
26	20	HDR UNBIAS	1.2757	1.2757	0
27	20	HDR UNBIAS	1.2765	1.2754	-0.0011
28	20	HDR UNBIAS	1.275	1.2782	0.0032
29	20	HDR UNBIAS	1.2757	1.276	0.0003
30	20	HDR UNBIAS	1.2768	1.2751	-0.0017
31	30	HDR BIAS	1.275	1.2782	0.0032
32	30	HDR BIAS	1.276	1.276	0
33	30	HDR BIAS	1.2768	1.2754	-0.0014
34	30	HDR BIAS	1.275	1.2782	0.0032
35	30	HDR BIAS	1.2757	1.276	0.0003
36	30	HDR UNBIAS	1.2768	1.2754	-0.0014
37	30	HDR UNBIAS	1.275	1.2782	0.0032
38	30	HDR UNBIAS	1.2757	1.2757	0
39	30	HDR UNBIAS	1.2768	1.2754	-0.0014
40	30	HDR UNBIAS	1.2747	1.2779	0.0032
41	50	HDR BIAS	1.276	1.276	0
42	50	HDR BIAS	1.2768	1.2355	-0.0413
43	50	HDR BIAS	1.275	1.2386	-0.0364
44	50	HDR BIAS	1.2754	1.236	-0.0394
45	50	HDR BIAS	1.2768	1.2355	-0.0413
46	50	HDR UNBIAS	1.2753	1.2386	-0.0367
47	50	HDR UNBIAS	1.2754	1.236	-0.0394
48	50	HDR UNBIAS	1.2765	1.2355	-0.041
49	50	HDR UNBIAS	1.2753	1.2383	-0.037
50	50	HDR UNBIAS	1.2757	1.2363	-0.0394
71	0	CORRELATION	1.2754	1.2782	0.0028
72	0	CORRELATION	1.2768	1.2757	-0.0011
73	0	CORRELATION	1.275	1.2751	0.0001

TID vs Post - Pre Exposure Delta

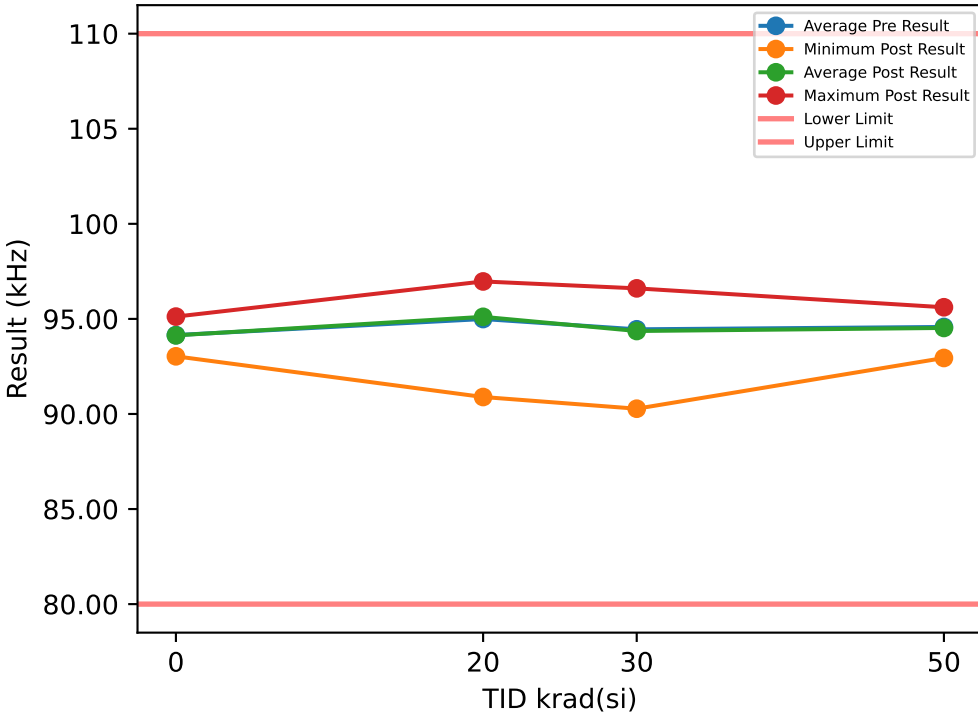


Test Statistics (V)

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	1.275	1.2757	1.2768	0.00094516	1.2751	1.2763	1.2782	0.0016442	-0.0011	0.0006	0.0028	0.0019975
20	1.275	1.2758	1.2768	0.00069952	1.2751	1.2763	1.2782	0.0013124	-0.0017	0.00049	0.0032	0.00197
30	1.2747	1.2757	1.2768	0.00082765	1.2754	1.2766	1.2782	0.0012997	-0.0014	0.00089	0.0032	0.0020819
50	1.275	1.2758	1.2768	0.00066633	1.2355	1.2406	1.276	0.012496	-0.0413	-0.03519	0	0.012503

Device Test: 20.71 LEVEL|FREQ/RT/4.5/4.5/0/1000/4.5/100kHz//@FSW\_EXT\_RT\_A

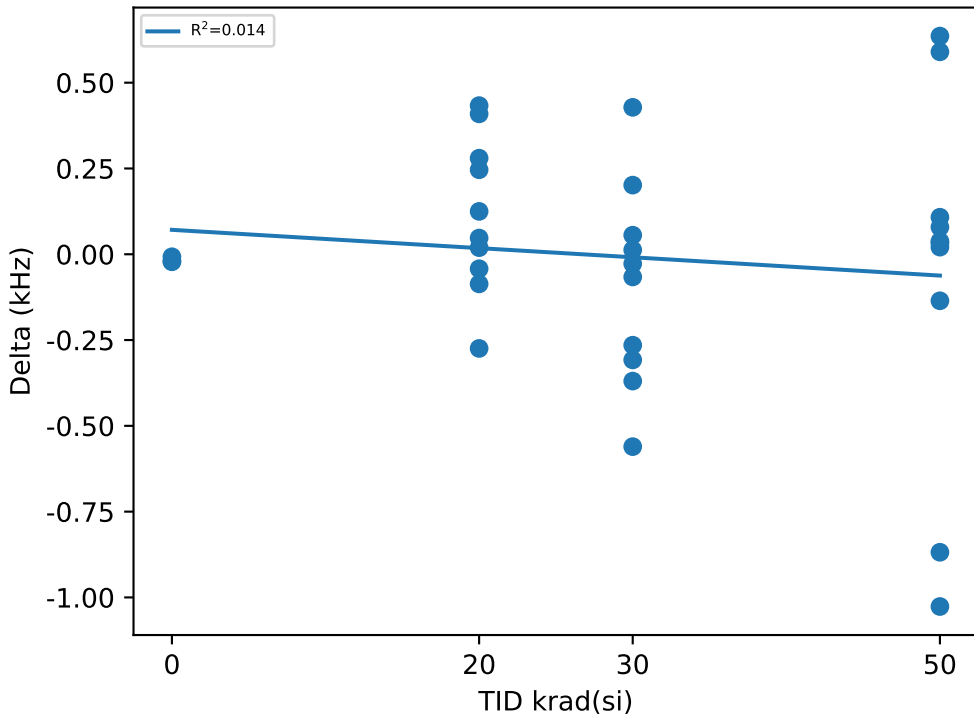
TID vs Result Stats



Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	97.012	96.969	-0.0422
22	20	HDR BIAS	93.962	93.687	-0.2744
23	20	HDR BIAS	95.889	96.323	0.4332
24	20	HDR BIAS	90.873	90.892	0.0193
25	20	HDR BIAS	95.701	95.826	0.1249
26	20	HDR UNBIAS	95.628	95.908	0.28
27	20	HDR UNBIAS	93.859	94.268	0.4091
28	20	HDR UNBIAS	94.372	94.618	0.2463
29	20	HDR UNBIAS	95.865	95.912	0.0473
30	20	HDR UNBIAS	96.769	96.682	-0.0864
31	30	HDR BIAS	94.074	94.502	0.4282
32	30	HDR BIAS	96.551	96.606	0.0556
33	30	HDR BIAS	93.665	93.599	-0.0661
34	30	HDR BIAS	90.646	90.277	-0.3696
35	30	HDR BIAS	95.537	95.272	-0.265
36	30	HDR UNBIAS	95.225	95.198	-0.0275
37	30	HDR UNBIAS	95.117	95.319	0.2015
38	30	HDR UNBIAS	93.192	93.205	0.0127
39	30	HDR UNBIAS	96.231	95.923	-0.3079
40	30	HDR UNBIAS	94.289	93.729	-0.5606
41	50	HDR BIAS	94.137	94.001	-0.1356
42	50	HDR BIAS	96.418	95.549	-0.8684
43	50	HDR BIAS	92.912	92.945	0.033
44	50	HDR BIAS	95.232	95.27	0.0379
45	50	HDR BIAS	92.899	93.007	0.1079
46	50	HDR UNBIAS	95.533	95.612	0.0791
47	50	HDR UNBIAS	94.463	94.484	0.0208
48	50	HDR UNBIAS	95.675	94.648	-1.0265
49	50	HDR UNBIAS	93.764	94.4	0.6358
50	50	HDR UNBIAS	94.733	95.323	0.5899
71	0	CORRELATION	93.039	93.032	-0.0073
72	0	CORRELATION	94.27	94.248	-0.0219
73	0	CORRELATION	95.141	95.121	-0.02

TID vs Post - Pre Exposure Delta

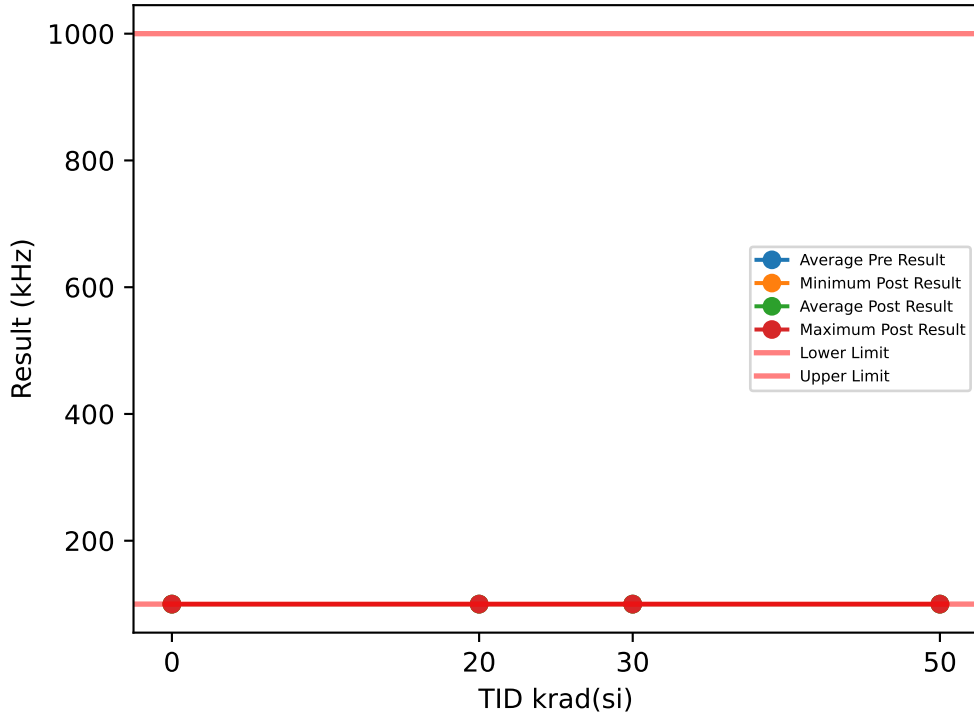


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.039	94.15	95.141	1.0558	93.032	94.134	95.121	1.0491	-0.0219	-0.0164	-0.0073	0.0079379
20	90.873	94.993	97.012	1.8077	90.892	95.109	96.969	1.8246	-0.2744	0.11571	0.4332	0.2268
30	90.646	94.453	96.551	1.7206	90.277	94.363	96.606	1.7934	-0.5606	-0.08987	0.4282	0.29202
50	92.899	94.577	96.418	1.1745	92.945	94.524	95.612	0.97347	-1.0265	-0.05261	0.6358	0.53454

Device Test: 20.72 LEVEL|FREQ/SYNC/4.5/4.5/0/1000/4.5/100kHz//@FREQ\_SYNC\_EXT

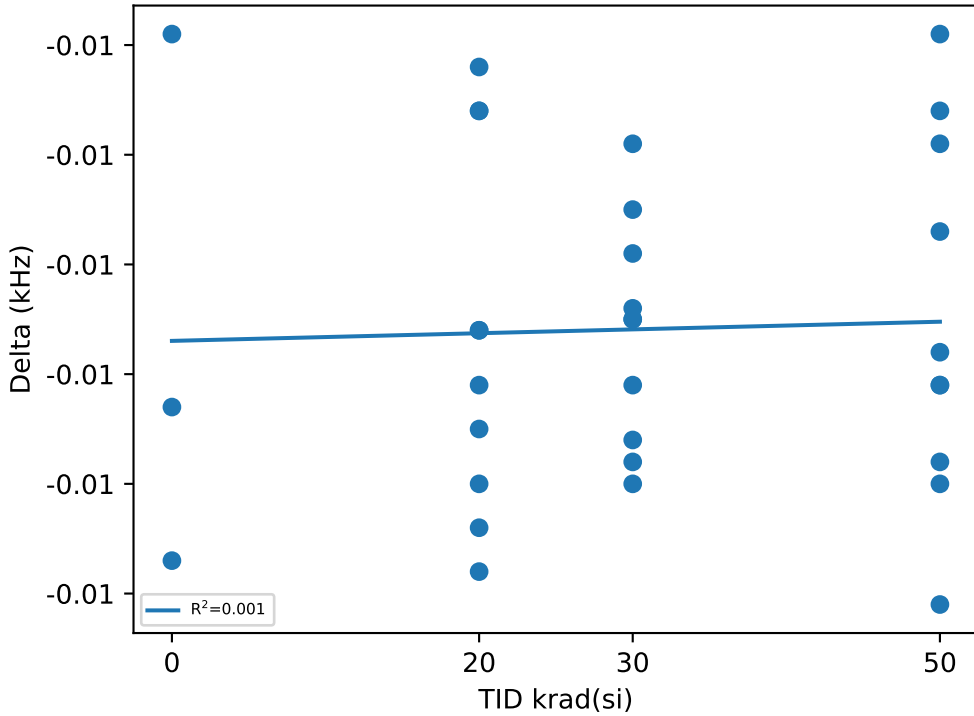
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	99.993	-0.0104
22	20	HDR BIAS	100	99.992	-0.0108
23	20	HDR BIAS	100	99.993	-0.0095
24	20	HDR BIAS	100	99.995	-0.0066
25	20	HDR BIAS	100	99.994	-0.0066
26	20	HDR UNBIAS	100	99.994	-0.0091
27	20	HDR UNBIAS	100	99.996	-0.0062
28	20	HDR UNBIAS	100	99.994	-0.0086
29	20	HDR UNBIAS	100	99.991	-0.01
30	20	HDR UNBIAS	100	99.995	-0.0086
31	30	HDR BIAS	100	99.994	-0.0091
32	30	HDR BIAS	100	99.993	-0.0096
33	30	HDR BIAS	100	99.995	-0.0075
34	30	HDR BIAS	100	99.994	-0.0069
35	30	HDR BIAS	100	99.992	-0.0098
36	30	HDR UNBIAS	100	99.995	-0.0085
37	30	HDR UNBIAS	100	99.994	-0.0084
38	30	HDR UNBIAS	100	99.994	-0.0079
39	30	HDR UNBIAS	100	99.993	-0.01
40	30	HDR UNBIAS	100	99.992	-0.0085
41	50	HDR BIAS	100	99.992	-0.0091
42	50	HDR BIAS	100	99.995	-0.0059
43	50	HDR BIAS	100	99.994	-0.0069
44	50	HDR BIAS	100	99.994	-0.0098
45	50	HDR BIAS	100	99.993	-0.0088
46	50	HDR UNBIAS	100	99.992	-0.0111
47	50	HDR UNBIAS	100	99.993	-0.0077
48	50	HDR UNBIAS	100	99.996	-0.0066
49	50	HDR UNBIAS	100	99.992	-0.0091
50	50	HDR UNBIAS	100	99.992	-0.01
71	0	CORRELATION	100	99.994	-0.0093
72	0	CORRELATION	100	99.991	-0.0107
73	0	CORRELATION	100	99.995	-0.0059

TID vs Post - Pre Exposure Delta

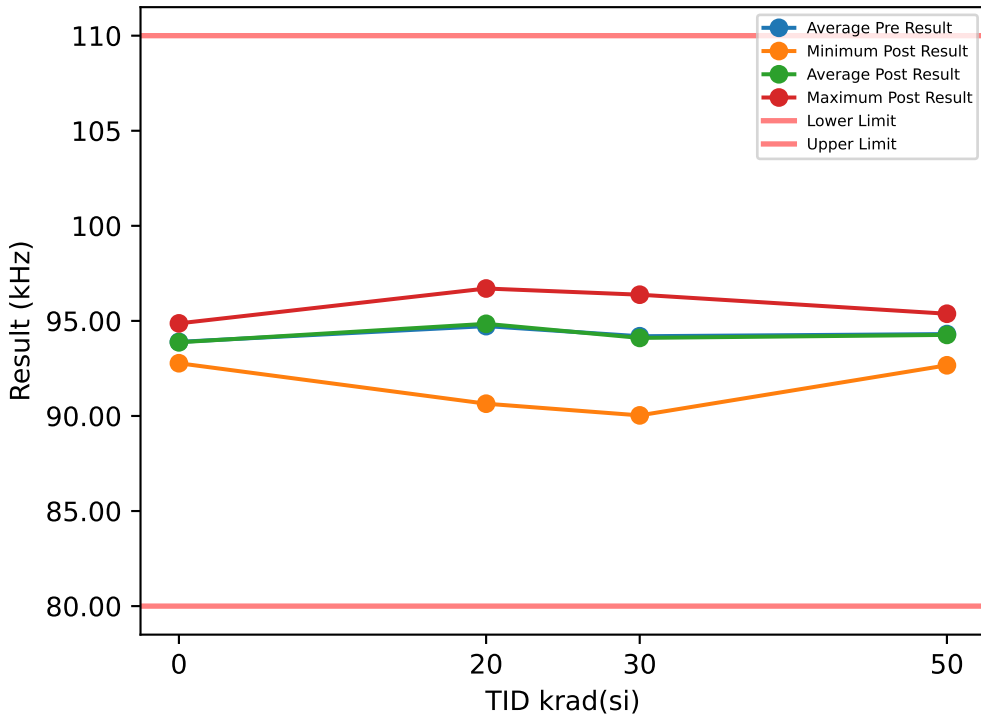


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0.001222	99.991	99.993	99.995	0.0020817	-0.0107	-0.0086333	-0.0059	0.0024685
20	100	100	100	0.00097183	99.991	99.994	99.996	0.0013108	-0.0108	-0.00864	-0.0062	0.0016615
30	100	100	100	0.0010853	99.992	99.994	99.995	0.0011593	-0.01	-0.00862	-0.0069	0.0010163
50	100	100	100	0.0009624	99.992	99.993	99.996	0.0013855	-0.0111	-0.0085	-0.0059	0.0016693

# Device Test: 20.73 LEVEL|FREQ/RT/5/5/0/1000/5/100kHz//@FSW\_EXT\_RT\_A

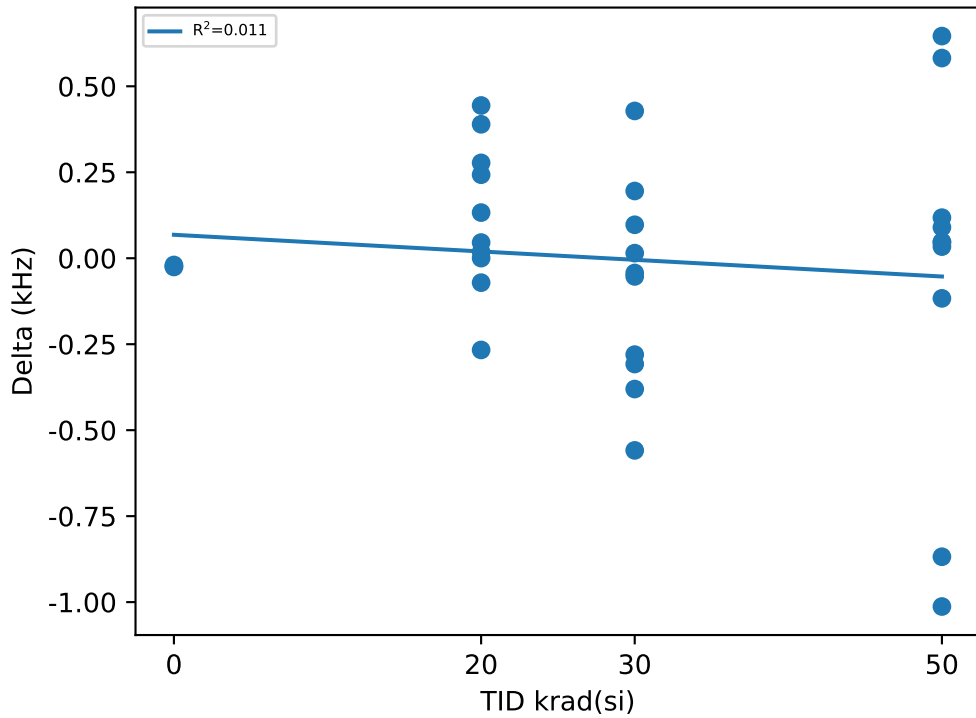
### TID vs Result Stats



### Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	96.704	96.704	0.0003
22	20	HDR BIAS	93.696	93.43	-0.2667
23	20	HDR BIAS	95.623	96.067	0.4442
24	20	HDR BIAS	90.627	90.645	0.0184
25	20	HDR BIAS	95.419	95.552	0.1327
26	20	HDR UNBIAS	95.358	95.635	0.2773
27	20	HDR UNBIAS	93.65	94.039	0.3895
28	20	HDR UNBIAS	94.088	94.33	0.2429
29	20	HDR UNBIAS	95.608	95.653	0.0456
30	20	HDR UNBIAS	96.478	96.407	-0.071
31	30	HDR BIAS	93.803	94.231	0.4283
32	30	HDR BIAS	96.281	96.378	0.0973
33	30	HDR BIAS	93.406	93.363	-0.0429
34	30	HDR BIAS	90.411	90.031	-0.3804
35	30	HDR BIAS	95.28	94.999	-0.2803
36	30	HDR UNBIAS	94.986	94.933	-0.0529
37	30	HDR UNBIAS	94.852	95.048	0.1955
38	30	HDR UNBIAS	92.93	92.945	0.0148
39	30	HDR UNBIAS	95.959	95.651	-0.3077
40	30	HDR UNBIAS	94.03	93.471	-0.5588
41	50	HDR BIAS	93.862	93.745	-0.1167
42	50	HDR BIAS	96.134	95.266	-0.868
43	50	HDR BIAS	92.618	92.665	0.0466
44	50	HDR BIAS	94.971	95.018	0.0474
45	50	HDR BIAS	92.641	92.759	0.118
46	50	HDR UNBIAS	95.287	95.377	0.0899
47	50	HDR UNBIAS	94.217	94.251	0.0338
48	50	HDR UNBIAS	95.406	94.394	-1.0128
49	50	HDR UNBIAS	93.471	94.117	0.646
50	50	HDR UNBIAS	94.46	95.043	0.5821
71	0	CORRELATION	92.793	92.773	-0.0196
72	0	CORRELATION	94.004	93.981	-0.024
73	0	CORRELATION	94.895	94.87	-0.0254

### TID vs Post - Pre Exposure Delta

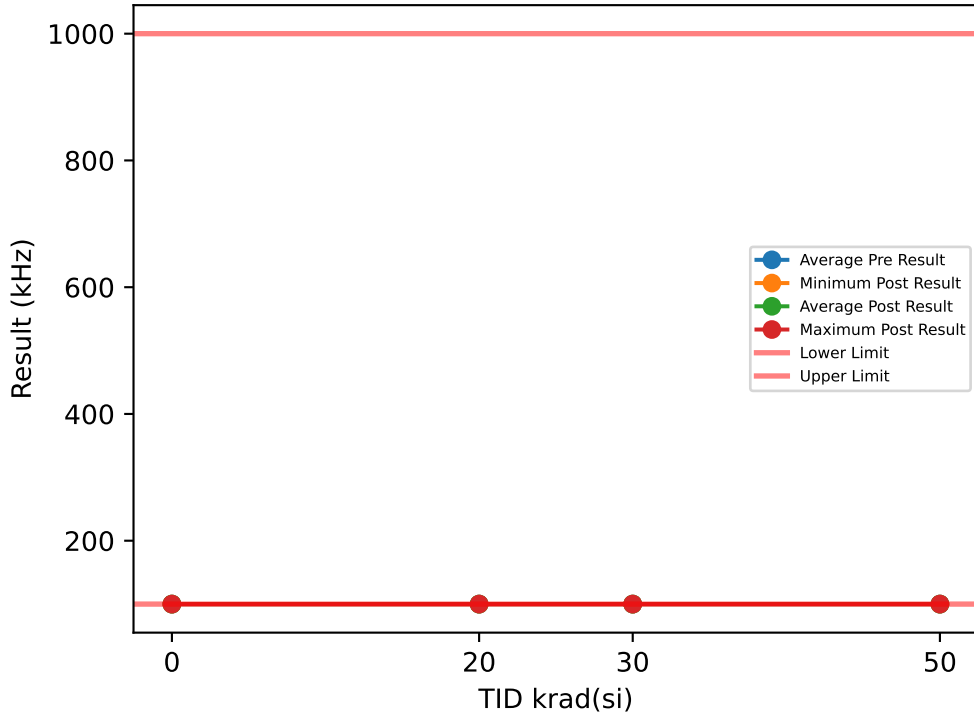


### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.793	93.897	94.895	1.0552	92.773	93.875	94.87	1.0522	-0.0254	-0.023	-0.0196	0.0030265
20	90.627	94.725	96.704	1.7911	90.645	94.846	96.704	1.8173	-0.2667	0.12132	0.4442	0.21958
30	90.411	94.194	96.281	1.7133	90.031	94.105	96.378	1.7903	-0.5588	-0.08871	0.4283	0.2958
50	92.618	94.307	96.134	1.1787	92.665	94.263	95.377	0.97456	-1.0128	-0.04337	0.646	0.5331

Device Test: 20.74 LEVEL|FREQ/SYNC/5/5/0/1000/5/100kHz//@FREQ\_SYNC\_EXT

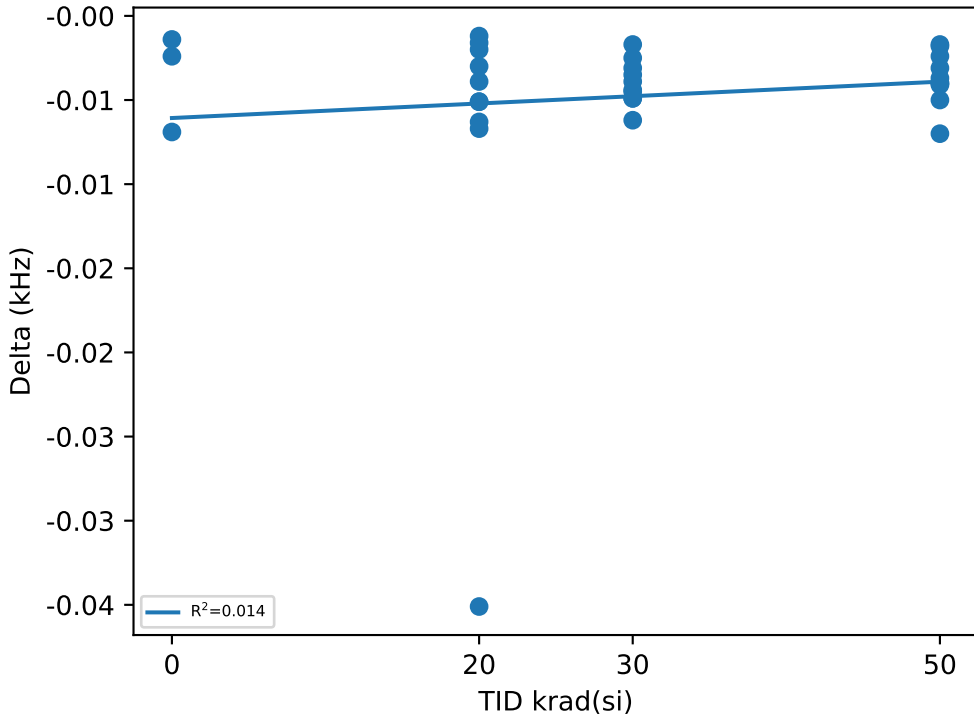
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	99.993	-0.0101
22	20	HDR BIAS	100	99.995	-0.0062
23	20	HDR BIAS	100	99.994	-0.0089
24	20	HDR BIAS	100	99.993	-0.008
25	20	HDR BIAS	100	99.994	-0.007
26	20	HDR UNBIAS	100	99.991	-0.0117
27	20	HDR UNBIAS	100	99.995	-0.0066
28	20	HDR UNBIAS	100	99.992	-0.0101
29	20	HDR UNBIAS	100	99.992	-0.0113
30	20	HDR UNBIAS	100	99.964	-0.0401
31	30	HDR BIAS	100	99.994	-0.0067
32	30	HDR BIAS	100	99.992	-0.0095
33	30	HDR BIAS	100	99.995	-0.0089
34	30	HDR BIAS	100	99.992	-0.0099
35	30	HDR BIAS	100	99.992	-0.0112
36	30	HDR UNBIAS	100	99.994	-0.0075
37	30	HDR UNBIAS	100	99.994	-0.0081
38	30	HDR UNBIAS	100	99.993	-0.0099
39	30	HDR UNBIAS	100	99.993	-0.0085
40	30	HDR UNBIAS	100	99.992	-0.0094
41	50	HDR BIAS	100	99.993	-0.009
42	50	HDR BIAS	100	99.994	-0.0091
43	50	HDR BIAS	100	99.993	-0.0081
44	50	HDR BIAS	100	99.994	-0.0074
45	50	HDR BIAS	100	99.995	-0.0067
46	50	HDR UNBIAS	100	99.994	-0.0068
47	50	HDR UNBIAS	100	99.991	-0.012
48	50	HDR UNBIAS	100	99.995	-0.009
49	50	HDR UNBIAS	100	99.994	-0.0087
50	50	HDR UNBIAS	100	99.993	-0.01
71	0	CORRELATION	100	99.995	-0.0064
72	0	CORRELATION	100	99.991	-0.0119
73	0	CORRELATION	100	99.993	-0.0074

TID vs Post - Pre Exposure Delta

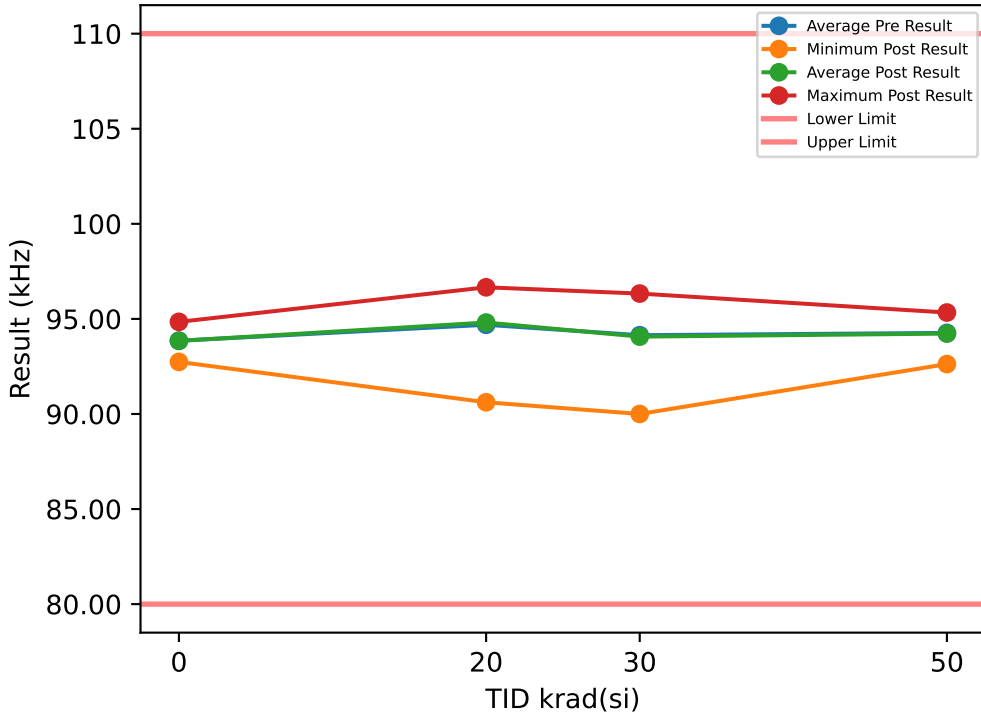


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0.0010116	99.991	99.993	99.995	0.0019553	-0.0119	-0.0085667	-0.0064	0.0029297
20	100	100	100	0.0010113	99.964	99.99	99.995	0.0094146	-0.0401	-0.012	-0.0062	0.01006
30	100	100	100	0.00092526	99.992	99.993	99.995	0.0010723	-0.0112	-0.00896	-0.0067	0.0013108
50	100	100	100	0.0011778	99.991	99.994	99.995	0.0012313	-0.012	-0.00868	-0.0067	0.0015838

Device Test: 20.75 LEVEL|FREQ/RT/12/12/0/1000/5/100kHz//@FSW\_EXT\_RT\_A

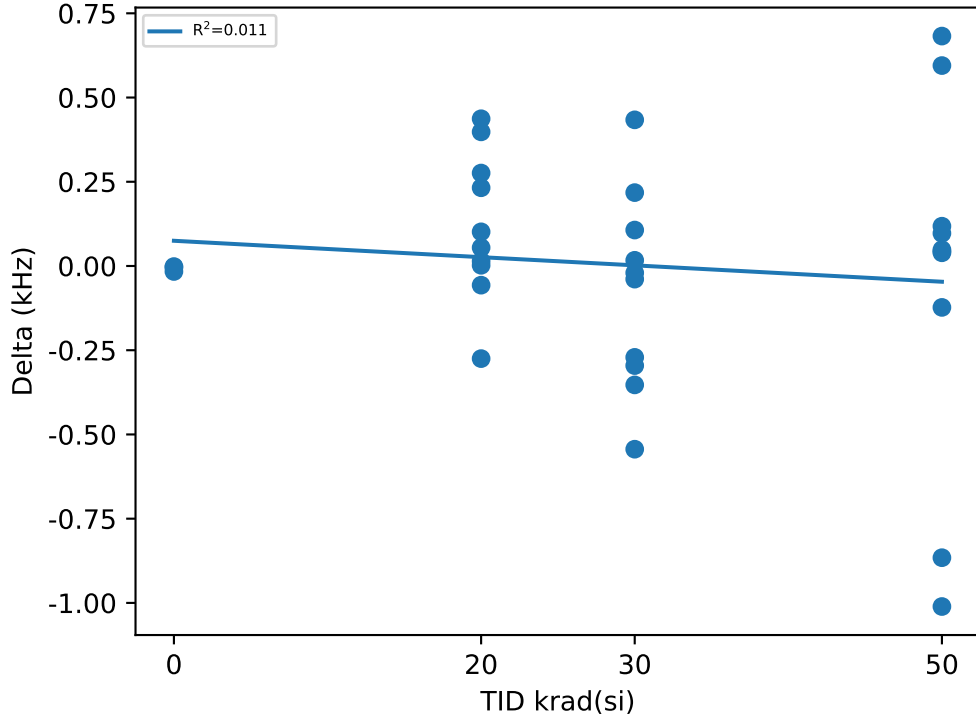
TID vs Result Stats



Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	96.66	96.662	0.0021
22	20	HDR BIAS	93.669	93.394	-0.2749
23	20	HDR BIAS	95.585	96.022	0.437
24	20	HDR BIAS	90.601	90.615	0.0144
25	20	HDR BIAS	95.387	95.489	0.1014
26	20	HDR UNBIAS	95.307	95.583	0.2759
27	20	HDR UNBIAS	93.611	94.009	0.3981
28	20	HDR UNBIAS	94.074	94.306	0.2322
29	20	HDR UNBIAS	95.563	95.617	0.0545
30	20	HDR UNBIAS	96.447	96.391	-0.0569
31	30	HDR BIAS	93.756	94.19	0.4338
32	30	HDR BIAS	96.225	96.332	0.1067
33	30	HDR BIAS	93.366	93.346	-0.0203
34	30	HDR BIAS	90.353	90.001	-0.3529
35	30	HDR BIAS	95.246	94.974	-0.2712
36	30	HDR UNBIAS	94.944	94.905	-0.039
37	30	HDR UNBIAS	94.772	94.989	0.2178
38	30	HDR UNBIAS	92.88	92.897	0.0169
39	30	HDR UNBIAS	95.913	95.618	-0.2956
40	30	HDR UNBIAS	93.97	93.426	-0.5438
41	50	HDR BIAS	93.812	93.689	-0.1229
42	50	HDR BIAS	96.098	95.232	-0.8658
43	50	HDR BIAS	92.585	92.624	0.0392
44	50	HDR BIAS	94.925	94.974	0.0484
45	50	HDR BIAS	92.612	92.73	0.1181
46	50	HDR UNBIAS	95.238	95.335	0.097
47	50	HDR UNBIAS	94.179	94.222	0.0432
48	50	HDR UNBIAS	95.384	94.373	-1.0107
49	50	HDR UNBIAS	93.393	94.075	0.6824
50	50	HDR UNBIAS	94.411	95.005	0.5949
71	0	CORRELATION	92.743	92.739	-0.0039
72	0	CORRELATION	93.967	93.951	-0.0163
73	0	CORRELATION	94.846	94.844	-0.0017

TID vs Post - Pre Exposure Delta

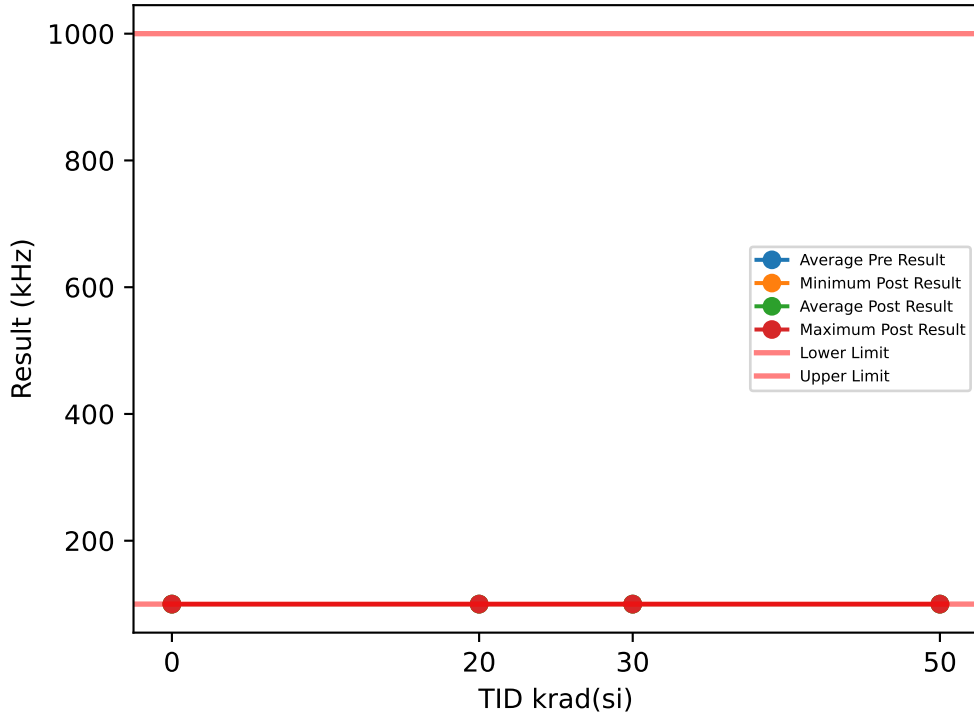


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.743	93.852	94.846	1.0565	92.739	93.845	94.844	1.0569	-0.0163	-0.0073	-0.0017	0.0078715
20	90.601	94.69	96.66	1.7859	90.615	94.809	96.662	1.8136	-0.2749	0.11838	0.437	0.21899
30	90.353	94.143	96.225	1.7148	90.001	94.068	96.332	1.7878	-0.5438	-0.07476	0.4338	0.29336
50	92.585	94.264	96.098	1.1806	92.624	94.226	95.335	0.97446	-1.0107	-0.03762	0.6824	0.53962



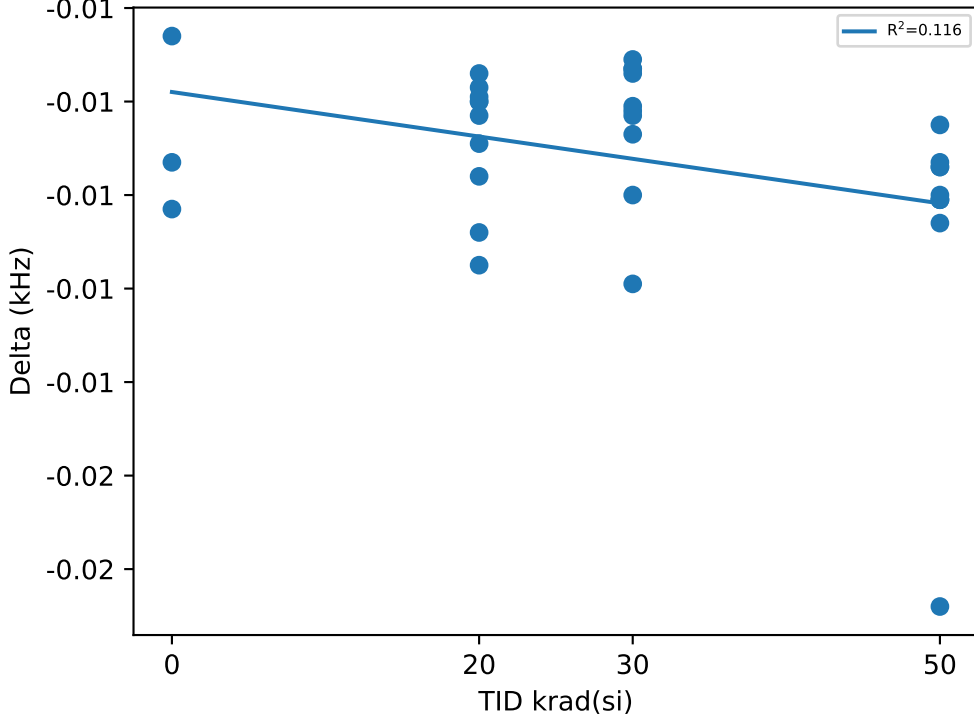
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	99.995	-0.0079
22	20	HDR BIAS	100	99.992	-0.0089
23	20	HDR BIAS	100	99.994	-0.0074
24	20	HDR BIAS	100	99.993	-0.008
25	20	HDR BIAS	100	99.994	-0.008
26	20	HDR UNBIAS	100	99.992	-0.0115
27	20	HDR UNBIAS	100	99.994	-0.0083
28	20	HDR UNBIAS	100	99.992	-0.0096
29	20	HDR UNBIAS	100	99.992	-0.0108
30	20	HDR UNBIAS	100	99.995	-0.0077
31	30	HDR BIAS	100	99.994	-0.0071
32	30	HDR BIAS	100	99.991	-0.0119
33	30	HDR BIAS	100	99.994	-0.0074
34	30	HDR BIAS	100	99.992	-0.0083
35	30	HDR BIAS	100	99.991	-0.01
36	30	HDR UNBIAS	100	99.993	-0.0082
37	30	HDR UNBIAS	100	99.994	-0.0081
38	30	HDR UNBIAS	100	99.993	-0.0087
39	30	HDR UNBIAS	100	99.994	-0.0073
40	30	HDR UNBIAS	100	99.993	-0.0073
41	50	HDR BIAS	100	99.993	-0.0101
42	50	HDR BIAS	100	99.994	-0.0085
43	50	HDR BIAS	100	99.993	-0.0101
44	50	HDR BIAS	100	99.984	-0.0188
45	50	HDR BIAS	100	99.994	-0.01
46	50	HDR UNBIAS	100	99.993	-0.0094
47	50	HDR UNBIAS	100	99.992	-0.0106
48	50	HDR UNBIAS	100	99.993	-0.0093
49	50	HDR UNBIAS	100	99.992	-0.0094
50	50	HDR UNBIAS	100	99.991	-0.0101
71	0	CORRELATION	100	99.993	-0.0103
72	0	CORRELATION	100	99.993	-0.0093
73	0	CORRELATION	100	99.995	-0.0066

TID vs Post - Pre Exposure Delta

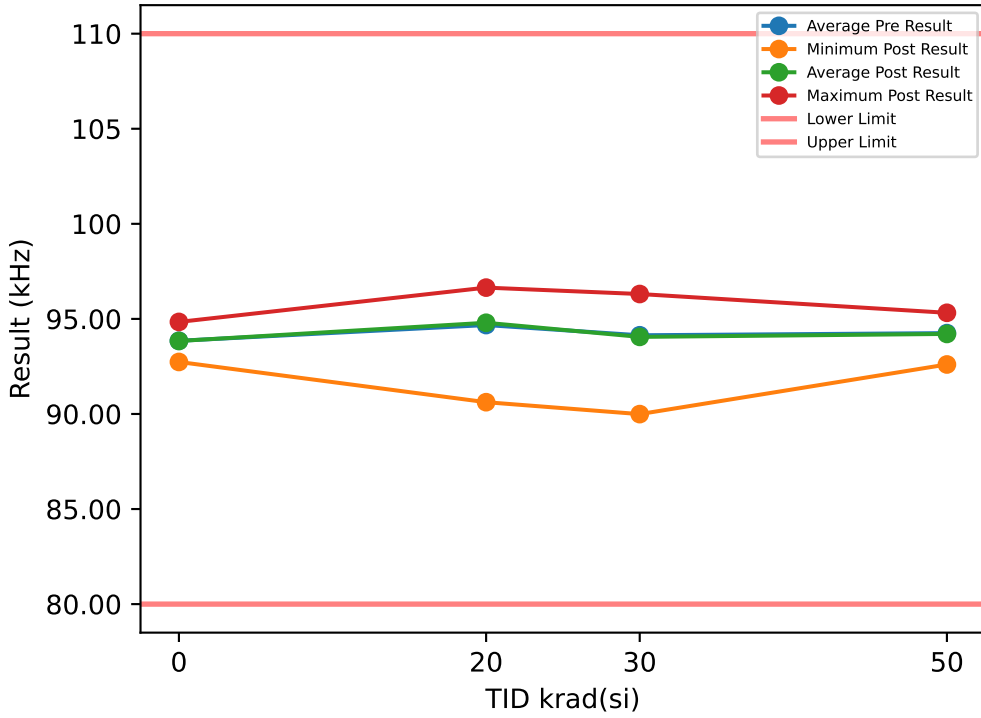


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0.00091652	99.993	99.994	99.995	0.001159	-0.0103	-0.0087333	-0.0066	0.001914
20	100	100	100	0.00072334	99.992	99.993	99.995	0.0011274	-0.0115	-0.00881	-0.0074	0.0013924
30	100	100	100	0.00074952	99.991	99.993	99.994	0.0011406	-0.0119	-0.00843	-0.0071	0.001496
50	100	100	100	0.0006945	99.984	99.992	99.994	0.0028803	-0.0188	-0.01063	-0.0085	0.0029311

# Device Test: 20.77 LEVEL|FREQ/RT/14/14/0/1000/5/100kHz//@FSW\_EXT\_RT\_A

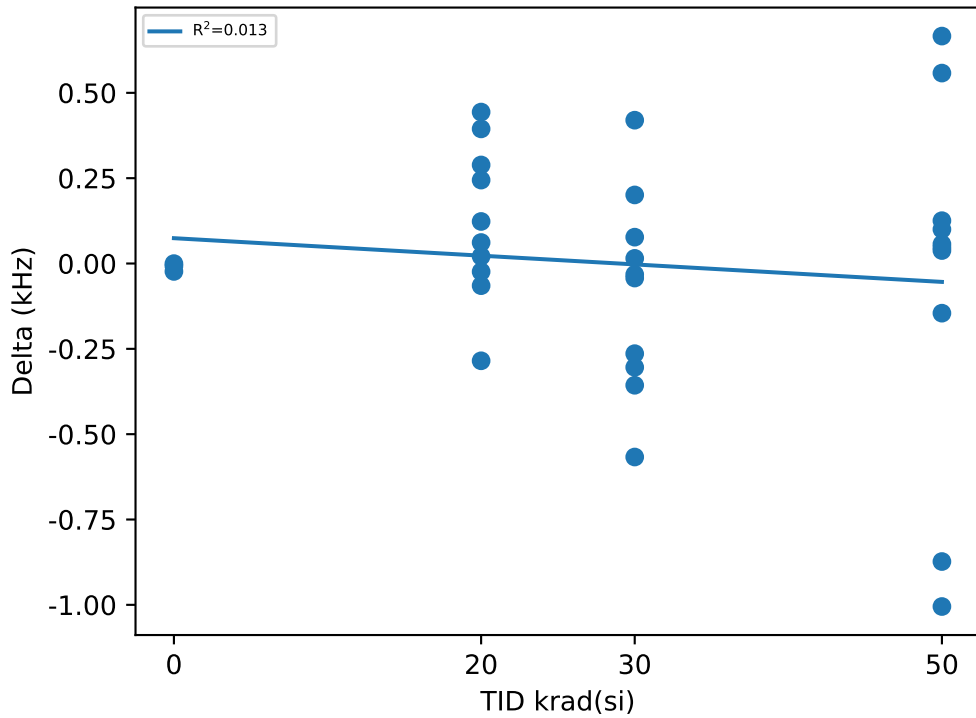
### TID vs Result Stats



### Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	96.669	96.645	-0.0239
22	20	HDR BIAS	93.672	93.387	-0.285
23	20	HDR BIAS	95.581	96.025	0.4437
24	20	HDR BIAS	90.598	90.619	0.021
25	20	HDR BIAS	95.359	95.482	0.1232
26	20	HDR UNBIAS	95.281	95.57	0.2887
27	20	HDR UNBIAS	93.595	93.989	0.3944
28	20	HDR UNBIAS	94.041	94.285	0.2444
29	20	HDR UNBIAS	95.539	95.6	0.0615
30	20	HDR UNBIAS	96.428	96.363	-0.0649
31	30	HDR BIAS	93.741	94.161	0.4199
32	30	HDR BIAS	96.231	96.309	0.0772
33	30	HDR BIAS	93.372	93.329	-0.0426
34	30	HDR BIAS	90.349	89.993	-0.3567
35	30	HDR BIAS	95.229	94.965	-0.2641
36	30	HDR UNBIAS	94.93	94.898	-0.0322
37	30	HDR UNBIAS	94.777	94.978	0.2009
38	30	HDR UNBIAS	92.876	92.892	0.0151
39	30	HDR UNBIAS	95.916	95.612	-0.3041
40	30	HDR UNBIAS	93.971	93.404	-0.5669
41	50	HDR BIAS	93.815	93.67	-0.1455
42	50	HDR BIAS	96.092	95.219	-0.8731
43	50	HDR BIAS	92.565	92.603	0.038
44	50	HDR BIAS	94.905	94.962	0.0568
45	50	HDR BIAS	92.592	92.718	0.1255
46	50	HDR UNBIAS	95.221	95.321	0.1001
47	50	HDR UNBIAS	94.173	94.22	0.0469
48	50	HDR UNBIAS	95.362	94.357	-1.0049
49	50	HDR UNBIAS	93.391	94.057	0.6663
50	50	HDR UNBIAS	94.406	94.964	0.5579
71	0	CORRELATION	92.736	92.735	-0.0003
72	0	CORRELATION	93.963	93.939	-0.0232
73	0	CORRELATION	94.848	94.841	-0.0071

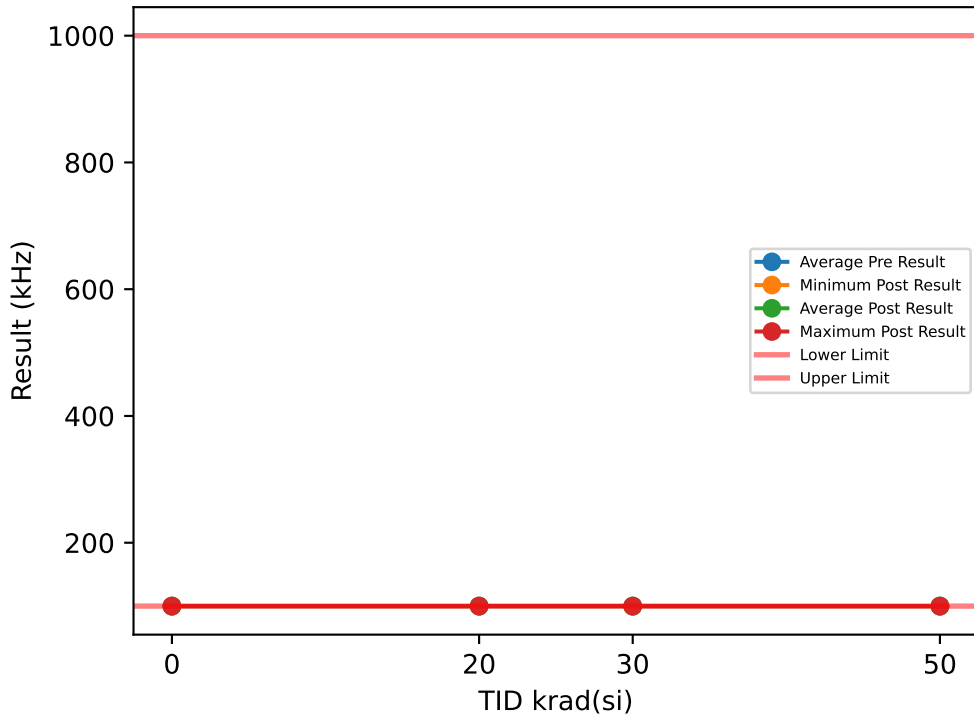
### TID vs Post - Pre Exposure Delta



### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.736	93.849	94.848	1.0606	92.735	93.838	94.841	1.0562	-0.0232	-0.0102	-0.0003	0.011761
20	90.598	94.676	96.669	1.7841	90.619	94.797	96.645	1.8087	-0.285	0.12031	0.4437	0.22513
30	90.349	94.139	96.231	1.7156	89.993	94.054	96.309	1.7861	-0.5669	-0.08535	0.4199	0.2913
50	92.565	94.252	96.092	1.1806	92.603	94.209	95.321	0.97359	-1.0049	-0.0432	0.6663	0.53359

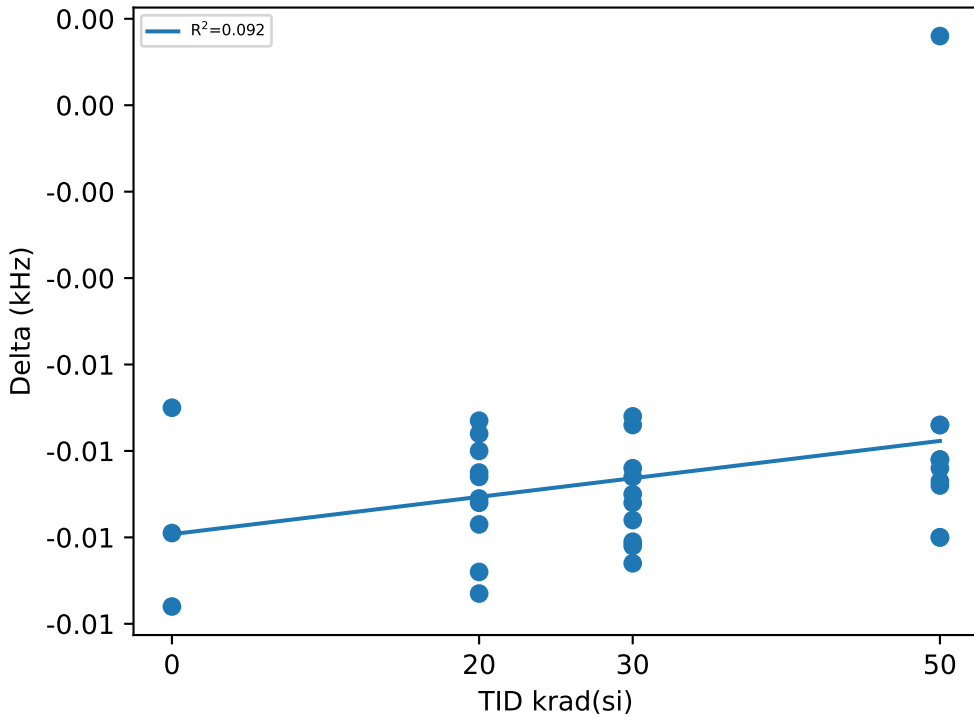
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	99.994	-0.0085
22	20	HDR BIAS	100	99.993	-0.0076
23	20	HDR BIAS	100	99.992	-0.0097
24	20	HDR BIAS	100	99.994	-0.0073
25	20	HDR BIAS	100	99.993	-0.008
26	20	HDR UNBIAS	100	99.992	-0.0108
27	20	HDR UNBIAS	100	99.994	-0.0092
28	20	HDR UNBIAS	100	99.993	-0.0086
29	20	HDR UNBIAS	100	99.992	-0.0113
30	20	HDR UNBIAS	100	99.995	-0.0091
31	30	HDR BIAS	100	99.992	-0.0092
32	30	HDR BIAS	100	99.993	-0.0102
33	30	HDR BIAS	100	99.993	-0.0096
34	30	HDR BIAS	100	99.993	-0.0084
35	30	HDR BIAS	100	99.992	-0.0106
36	30	HDR UNBIAS	100	99.993	-0.0101
37	30	HDR UNBIAS	100	99.994	-0.0086
38	30	HDR UNBIAS	100	99.994	-0.009
39	30	HDR UNBIAS	100	99.995	-0.0072
40	30	HDR UNBIAS	100	99.994	-0.0074
41	50	HDR BIAS	100	99.994	-0.0074
42	50	HDR BIAS	100	99.995	-0.0084
43	50	HDR BIAS	99.991	99.992	0.0016
44	50	HDR BIAS	100	99.993	-0.01
45	50	HDR BIAS	100	99.993	-0.0087
46	50	HDR UNBIAS	100	99.993	-0.0082
47	50	HDR UNBIAS	100	99.993	-0.01
48	50	HDR UNBIAS	100	99.995	-0.0082
49	50	HDR UNBIAS	100	99.993	-0.0074
50	50	HDR UNBIAS	100	99.993	-0.0088
71	0	CORRELATION	100	99.993	-0.0099
72	0	CORRELATION	100	99.992	-0.0116
73	0	CORRELATION	100	99.995	-0.007

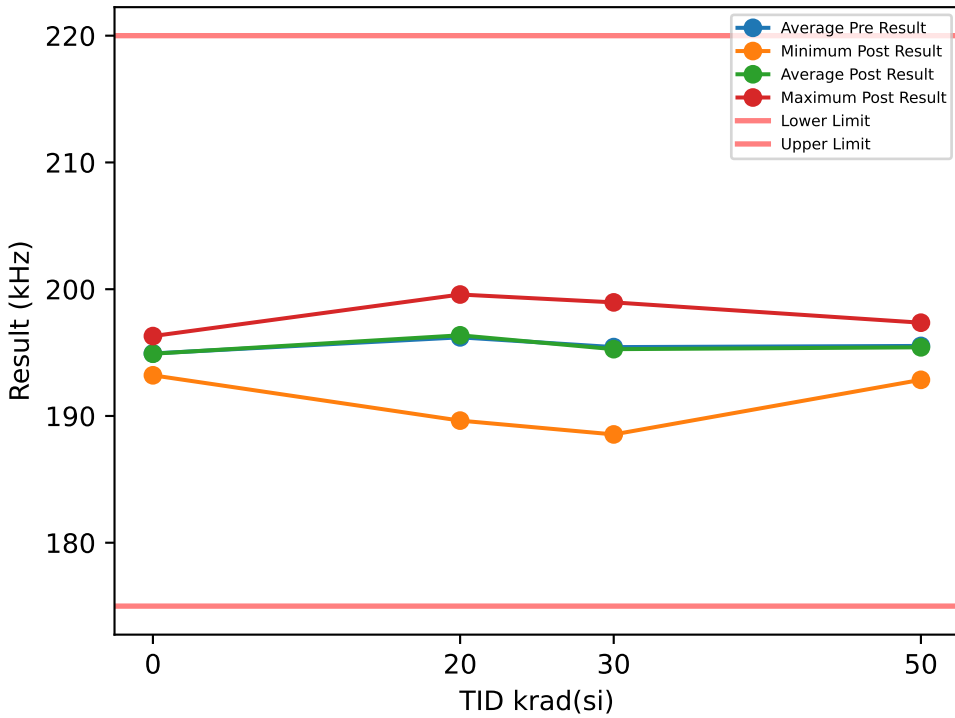
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0.00075056	99.992	99.993	99.995	0.0015822	-0.0116	-0.0095	-0.007	0.0023259
20	100	100	100	0.00093956	99.992	99.993	99.995	0.0010824	-0.0113	-0.00901	-0.0073	0.0013051
30	100	100	100	0.0007874	99.992	99.993	99.995	0.00073189	-0.0106	-0.00903	-0.0072	0.0011509
50	99.991	100	100	0.0036414	99.992	99.993	99.995	0.0009056	-0.01	-0.00755	0.0016	0.0033371

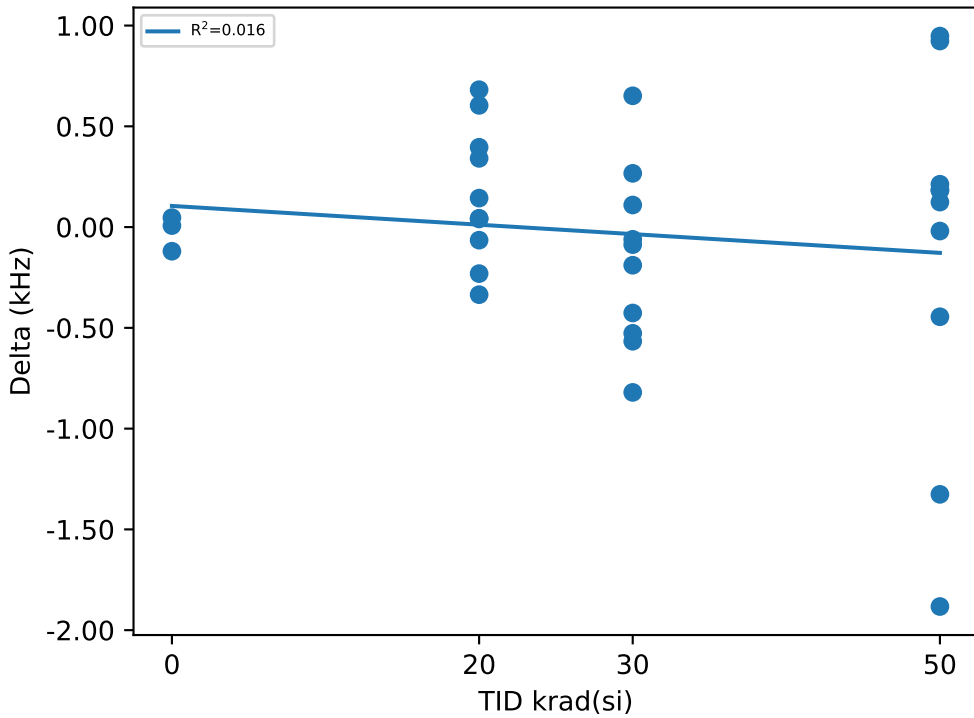
TID vs Result Stats



Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	199.65	199.58	-0.0649
22	20	HDR BIAS	194.22	193.88	-0.3353
23	20	HDR BIAS	197.22	197.91	0.6817
24	20	HDR BIAS	189.59	189.63	0.0404
25	20	HDR BIAS	197.59	197.73	0.1438
26	20	HDR UNBIAS	197.3	197.64	0.3411
27	20	HDR UNBIAS	194.15	194.75	0.6039
28	20	HDR UNBIAS	195.56	195.96	0.3961
29	20	HDR UNBIAS	197.8	197.85	0.0438
30	20	HDR UNBIAS	198.93	198.7	-0.2308
31	30	HDR BIAS	194.47	195.12	0.6515
32	30	HDR BIAS	198.85	198.96	0.1096
33	30	HDR BIAS	194.07	193.88	-0.1892
34	30	HDR BIAS	189.07	188.54	-0.5271
35	30	HDR BIAS	197.11	196.54	-0.5665
36	30	HDR UNBIAS	197.01	196.92	-0.087
37	30	HDR UNBIAS	196.28	196.55	0.2667
38	30	HDR UNBIAS	193.84	193.78	-0.0606
39	30	HDR UNBIAS	198.52	198.09	-0.4262
40	30	HDR UNBIAS	195.12	194.3	-0.8203
41	50	HDR BIAS	194.9	194.46	-0.4449
42	50	HDR BIAS	198.06	196.73	-1.3261
43	50	HDR BIAS	192.67	192.85	0.184
44	50	HDR BIAS	196.68	196.8	0.124
45	50	HDR BIAS	192.88	193.09	0.2126
46	50	HDR UNBIAS	196.8	196.98	0.1817
47	50	HDR UNBIAS	195.49	195.47	-0.0196
48	50	HDR UNBIAS	196.82	194.94	-1.8827
49	50	HDR UNBIAS	194.52	195.47	0.9478
50	50	HDR UNBIAS	196.44	197.36	0.9233
71	0	CORRELATION	193.2	193.21	0.0075
72	0	CORRELATION	195.34	195.22	-0.1198
73	0	CORRELATION	196.26	196.3	0.0469

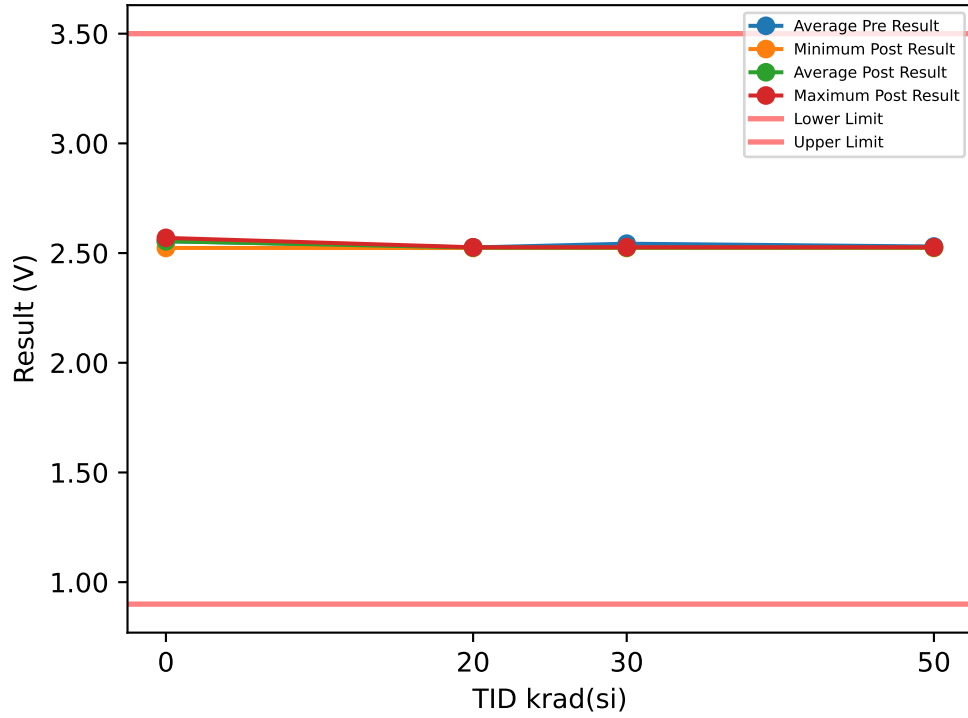
TID vs Post - Pre Exposure Delta



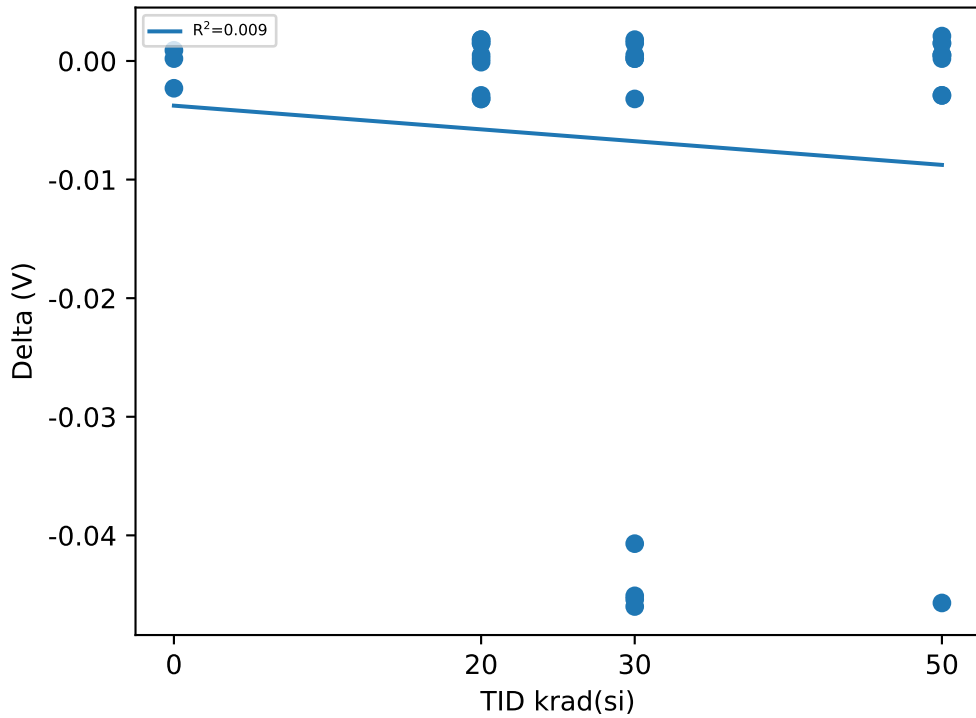
Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.2	194.93	196.26	1.5678	193.21	194.91	196.3	1.5703	-0.1198	-0.0218	0.0469	0.087127
20	189.59	196.2	199.65	2.9493	189.63	196.36	199.58	2.9459	-0.3353	0.16198	0.6817	0.33902
30	189.07	195.43	198.85	2.85	188.54	195.27	198.96	2.9421	-0.8203	-0.16491	0.6515	0.43919
50	192.67	195.53	198.06	1.7779	192.85	195.42	197.36	1.5991	-1.8827	-0.10999	0.9478	0.89807

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.9, Upper Limit = 3.5 (V))

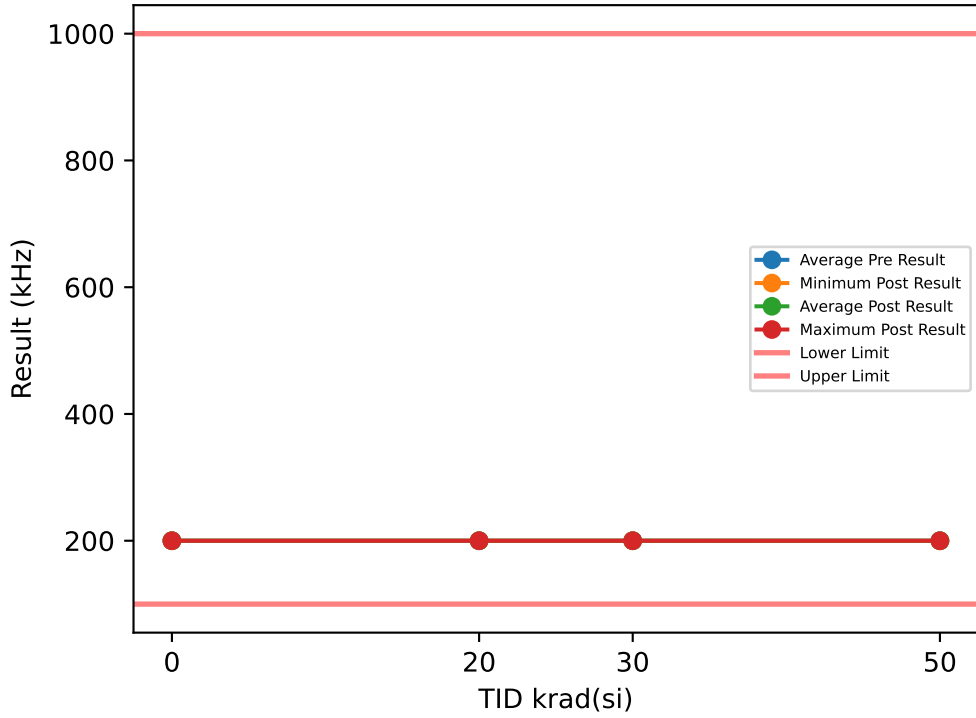
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.525	2.5265	0.0015
22	20	HDR BIAS	2.5263	2.5234	-0.0029
23	20	HDR BIAS	2.526	2.5259	-0.0001
24	20	HDR BIAS	2.525	2.5265	0.0015
25	20	HDR BIAS	2.5266	2.5234	-0.0032
26	20	HDR UNBIAS	2.5257	2.5259	0.0002
27	20	HDR UNBIAS	2.5244	2.5262	0.0018
28	20	HDR UNBIAS	2.5263	2.5231	-0.0032
29	20	HDR UNBIAS	2.5257	2.5262	0.0005
30	20	HDR UNBIAS	2.5247	2.5265	0.0018
31	30	HDR BIAS	2.5688	2.5234	-0.0454
32	30	HDR BIAS	2.5257	2.5262	0.0005
33	30	HDR BIAS	2.5675	2.5268	-0.0407
34	30	HDR BIAS	2.5688	2.5237	-0.0451
35	30	HDR BIAS	2.526	2.5262	0.0002
36	30	HDR UNBIAS	2.525	2.5265	0.0015
37	30	HDR UNBIAS	2.5691	2.5231	-0.046
38	30	HDR UNBIAS	2.526	2.5262	0.0002
39	30	HDR UNBIAS	2.5247	2.5265	0.0018
40	30	HDR UNBIAS	2.5266	2.5234	-0.0032
41	50	HDR BIAS	2.526	2.5262	0.0002
42	50	HDR BIAS	2.525	2.5265	0.0015
43	50	HDR BIAS	2.5691	2.5234	-0.0457
44	50	HDR BIAS	2.526	2.5265	0.0005
45	50	HDR BIAS	2.5247	2.5268	0.0021
46	50	HDR UNBIAS	2.5263	2.5234	-0.0029
47	50	HDR UNBIAS	2.5257	2.5262	0.0005
48	50	HDR UNBIAS	2.525	2.5265	0.0015
49	50	HDR UNBIAS	2.5266	2.5237	-0.0029
50	50	HDR UNBIAS	2.5257	2.5262	0.0005
71	0	CORRELATION	2.5257	2.5234	-0.0023
72	0	CORRELATION	2.5678	2.5687	0.0009
73	0	CORRELATION	2.5691	2.5693	0.0002

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	2.5257	2.5542	2.5691	0.02469	2.5234	2.5538	2.5693	0.026329	-0.0023	-0.0004	0.0009	0.0016823
20	2.5244	2.5256	2.5266	0.00075432	2.5231	2.5254	2.5265	0.0014408	-0.0032	-0.00021	0.0018	0.002101
30	2.5247	2.5428	2.5691	0.022155	2.5231	2.5252	2.5268	0.0015663	-0.046	-0.01762	0.0018	0.023044
50	2.5247	2.53	2.5691	0.013748	2.5234	2.5255	2.5268	0.0014222	-0.0457	-0.00447	0.0021	0.014588

Device Test: 20.80 LEVEL|FREQ/SYNC/4.5/4.5/0/1000/4.5/200kHz//@FREQ\_SYNC\_EXT

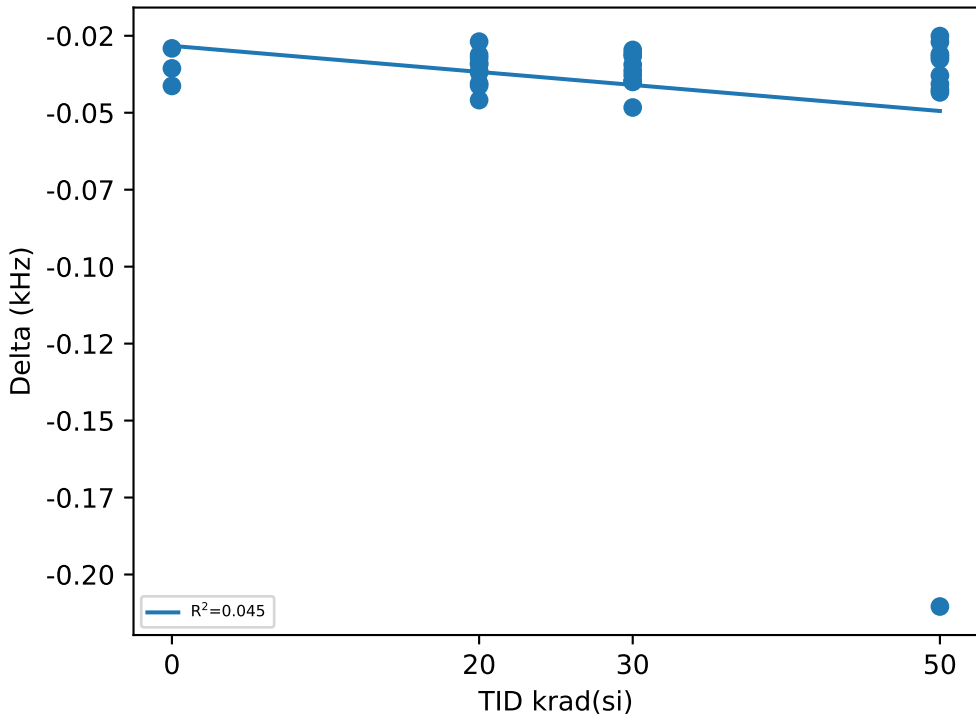
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	200.01	199.98	-0.0323
22	20	HDR BIAS	200	199.98	-0.0269
23	20	HDR BIAS	200.01	199.97	-0.0405
24	20	HDR BIAS	200.01	199.97	-0.0365
25	20	HDR BIAS	200.01	199.97	-0.0412
26	20	HDR UNBIAS	200.01	199.97	-0.0459
27	20	HDR UNBIAS	200.01	199.97	-0.0339
28	20	HDR UNBIAS	200.01	199.98	-0.0312
29	20	HDR UNBIAS	200.01	199.98	-0.0369
30	20	HDR UNBIAS	200.01	199.97	-0.0343
31	30	HDR BIAS	200.01	199.98	-0.0344
32	30	HDR BIAS	200.01	199.97	-0.0316
33	30	HDR BIAS	200.01	199.98	-0.0397
34	30	HDR BIAS	200.01	199.98	-0.0296
35	30	HDR BIAS	200.01	199.97	-0.0398
36	30	HDR UNBIAS	200.01	199.97	-0.04
37	30	HDR UNBIAS	200	199.97	-0.0309
38	30	HDR UNBIAS	200.01	199.97	-0.0483
39	30	HDR UNBIAS	200.01	199.97	-0.0378
40	30	HDR UNBIAS	200.01	199.97	-0.0363
41	50	HDR BIAS	200.01	199.98	-0.0317
42	50	HDR BIAS	200.01	199.8	-0.2104
43	50	HDR BIAS	200	199.98	-0.027
44	50	HDR BIAS	200	199.97	-0.031
45	50	HDR BIAS	200.01	199.98	-0.0326
46	50	HDR UNBIAS	200	199.98	-0.0251
47	50	HDR UNBIAS	200.01	199.97	-0.0379
48	50	HDR UNBIAS	200.02	199.97	-0.0425
49	50	HDR UNBIAS	200.01	199.97	-0.0434
50	50	HDR UNBIAS	200.02	199.97	-0.0407
71	0	CORRELATION	200.01	199.98	-0.0291
72	0	CORRELATION	200.01	199.97	-0.0413
73	0	CORRELATION	200.01	199.97	-0.0356

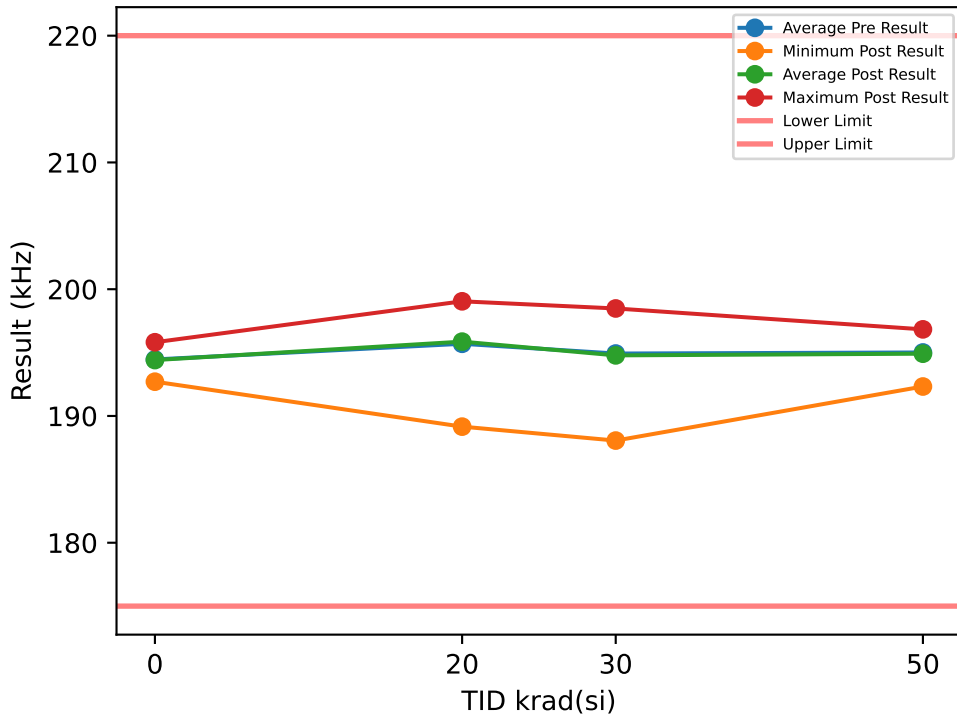
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200.01	200.01	200.01	0.0043466	199.97	199.97	199.98	0.0019975	-0.0413	-0.035333	-0.0291	0.0061044
20	200	200.01	200.01	0.0036616	199.97	199.97	199.98	0.0040442	-0.0459	-0.03596	-0.0269	0.0055094
30	200	200.01	200.01	0.0046165	199.97	199.97	199.98	0.0041118	-0.0483	-0.03684	-0.0296	0.0055835
50	200	200.01	200.02	0.0046625	199.8	199.96	199.98	0.05481	-0.2104	-0.05223	-0.0251	0.055935

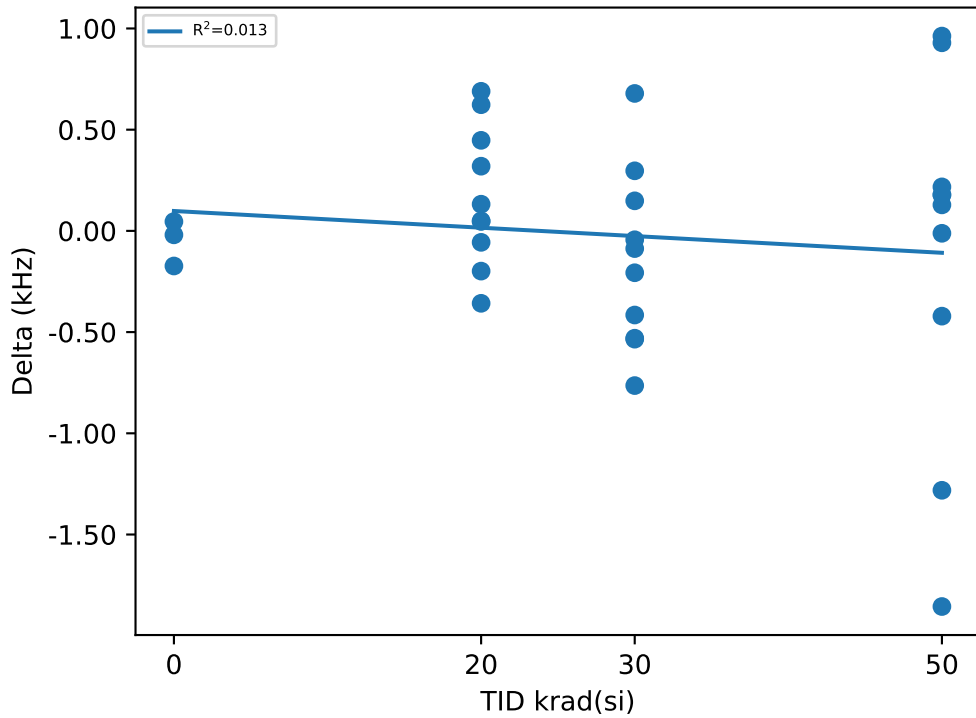
TID vs Result Stats



Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	199.1	199.05	-0.0566
22	20	HDR BIAS	193.76	193.41	-0.3578
23	20	HDR BIAS	196.73	197.42	0.6896
24	20	HDR BIAS	189.11	189.16	0.0468
25	20	HDR BIAS	197.06	197.2	0.1318
26	20	HDR UNBIAS	196.75	197.07	0.3196
27	20	HDR UNBIAS	193.7	194.32	0.6234
28	20	HDR UNBIAS	195.02	195.46	0.4474
29	20	HDR UNBIAS	197.31	197.36	0.0493
30	20	HDR UNBIAS	198.4	198.2	-0.1987
31	30	HDR BIAS	193.95	194.63	0.679
32	30	HDR BIAS	198.33	198.48	0.1485
33	30	HDR BIAS	193.59	193.38	-0.2068
34	30	HDR BIAS	188.59	188.06	-0.5349
35	30	HDR BIAS	196.6	196.07	-0.5302
36	30	HDR UNBIAS	196.5	196.41	-0.0874
37	30	HDR UNBIAS	195.74	196.04	0.2968
38	30	HDR UNBIAS	193.35	193.3	-0.0438
39	30	HDR UNBIAS	197.99	197.58	-0.4156
40	30	HDR UNBIAS	194.61	193.84	-0.7642
41	50	HDR BIAS	194.38	193.96	-0.4212
42	50	HDR BIAS	197.49	196.21	-1.2815
43	50	HDR BIAS	192.15	192.32	0.1772
44	50	HDR BIAS	196.18	196.31	0.1285
45	50	HDR BIAS	192.37	192.59	0.2174
46	50	HDR UNBIAS	196.35	196.53	0.1792
47	50	HDR UNBIAS	195.03	195.02	-0.0119
48	50	HDR UNBIAS	196.29	194.44	-1.8557
49	50	HDR UNBIAS	193.95	194.91	0.9624
50	50	HDR UNBIAS	195.9	196.83	0.9292
71	0	CORRELATION	192.72	192.7	-0.0195
72	0	CORRELATION	194.88	194.71	-0.1734
73	0	CORRELATION	195.77	195.82	0.0459

TID vs Post - Pre Exposure Delta

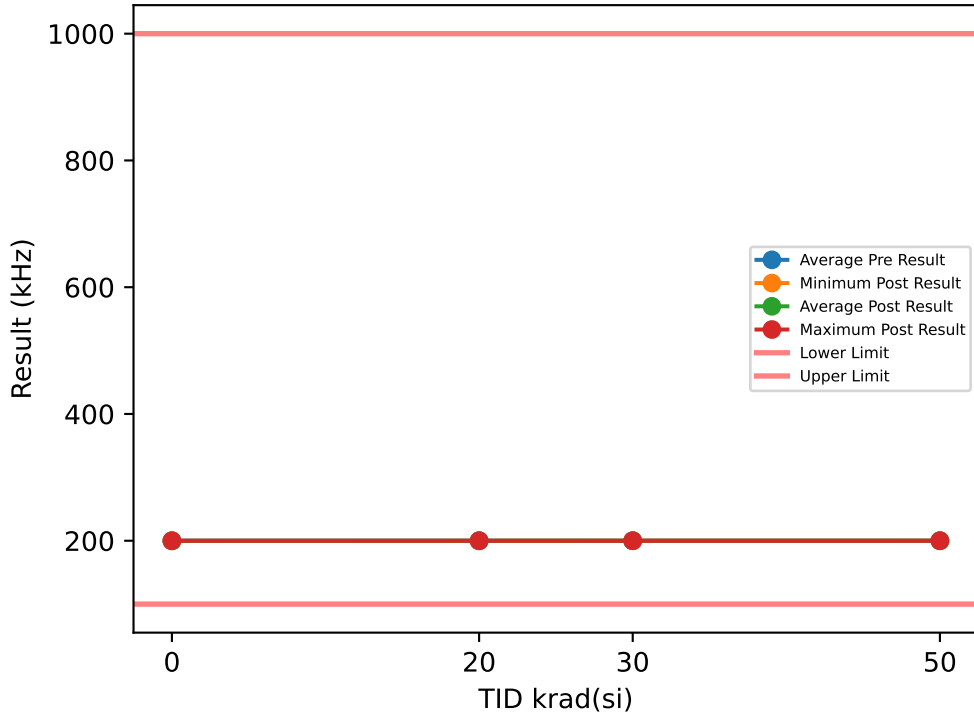


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	192.72	194.46	195.77	1.5667	192.7	194.41	195.82	1.5772	-0.1734	-0.049	0.0459	0.11259
20	189.11	195.69	199.1	2.9269	189.16	195.86	199.05	2.9251	-0.3578	0.16948	0.6896	0.34512
30	188.59	194.93	198.33	2.8358	188.06	194.78	198.48	2.9372	-0.7642	-0.14586	0.679	0.43903
50	192.15	195.01	197.49	1.7787	192.32	194.91	196.83	1.6056	-1.8557	-0.09764	0.9624	0.88726



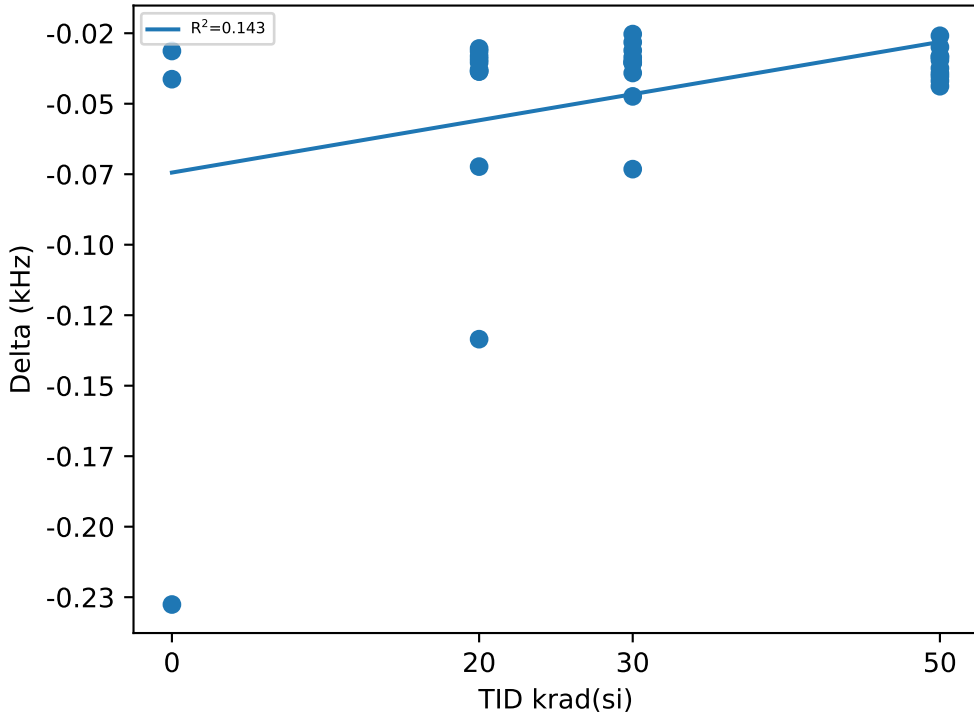
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	200.01	199.98	-0.0354
22	20	HDR BIAS	200	199.97	-0.0304
23	20	HDR BIAS	200	199.93	-0.0723
24	20	HDR BIAS	200.01	199.98	-0.0331
25	20	HDR BIAS	200.01	199.98	-0.0314
26	20	HDR UNBIAS	200.01	199.98	-0.0343
27	20	HDR UNBIAS	200.01	199.97	-0.0386
28	20	HDR UNBIAS	200.01	199.97	-0.0385
29	20	HDR UNBIAS	200.01	199.98	-0.0379
30	20	HDR UNBIAS	200.01	199.87	-0.1335
31	30	HDR BIAS	200.01	199.98	-0.0335
32	30	HDR BIAS	200.01	199.97	-0.0474
33	30	HDR BIAS	200.01	199.98	-0.0282
34	30	HDR BIAS	200.01	199.98	-0.035
35	30	HDR BIAS	200.01	199.98	-0.0355
36	30	HDR UNBIAS	200.01	199.98	-0.0253
37	30	HDR UNBIAS	200.01	199.97	-0.0355
38	30	HDR UNBIAS	200.01	199.97	-0.0391
39	30	HDR UNBIAS	200.01	199.98	-0.0311
40	30	HDR UNBIAS	200.01	199.94	-0.0732
41	50	HDR BIAS	200.01	199.97	-0.0438
42	50	HDR BIAS	200.01	199.97	-0.0392
43	50	HDR BIAS	200.01	199.97	-0.0419
44	50	HDR BIAS	200.01	199.97	-0.0374
45	50	HDR BIAS	200.02	199.98	-0.0345
46	50	HDR UNBIAS	200	199.98	-0.0259
47	50	HDR UNBIAS	200.01	199.97	-0.0403
48	50	HDR UNBIAS	200.01	199.97	-0.0334
49	50	HDR UNBIAS	200	199.97	-0.0332
50	50	HDR UNBIAS	200.01	199.98	-0.0299
71	0	CORRELATION	200.01	199.79	-0.2276
72	0	CORRELATION	200.01	199.97	-0.0413
73	0	CORRELATION	200.01	199.97	-0.0313

TID vs Post - Pre Exposure Delta

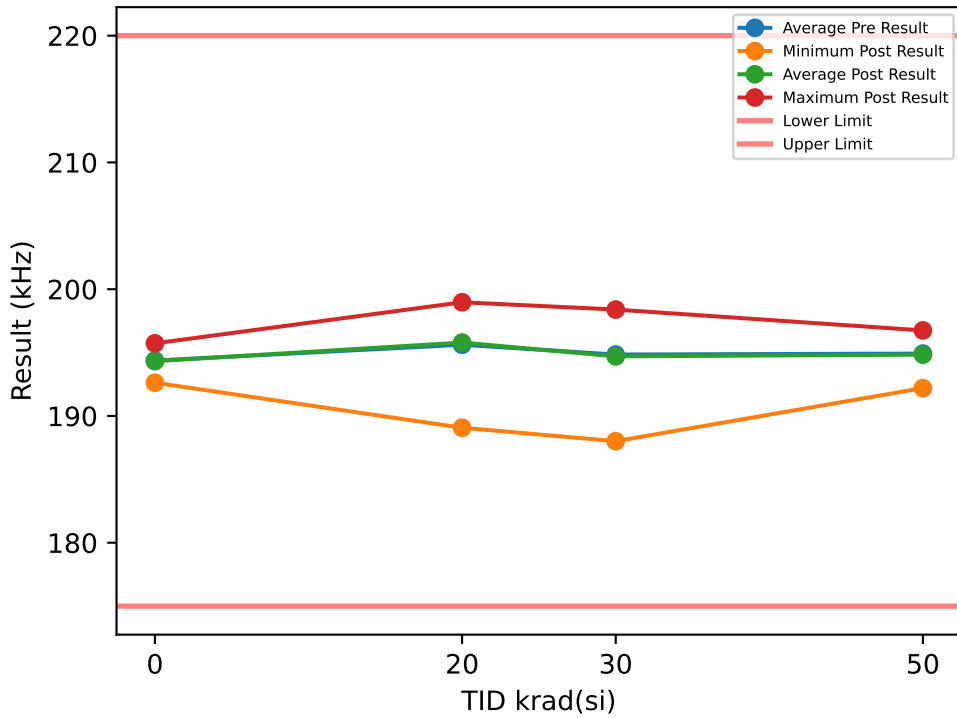


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200.01	200.01	200.01	0.0042004	199.79	199.91	199.97	0.10682	-0.2276	-0.10007	-0.0313	0.11056
20	200	200.01	200.01	0.0039482	199.87	199.96	199.98	0.033352	-0.1335	-0.04854	-0.0304	0.032201
30	200.01	200.01	200.01	0.0024216	199.94	199.97	199.98	0.013354	-0.0732	-0.03838	-0.0253	0.013638
50	200	200.01	200.02	0.0046971	199.97	199.97	199.98	0.003662	-0.0438	-0.03595	-0.0259	0.0056014

# Device Test: 20.83 LEVEL|FREQ/RT/12/12/0/1000/5/200kHz//@FSW\_EXT\_RT\_B

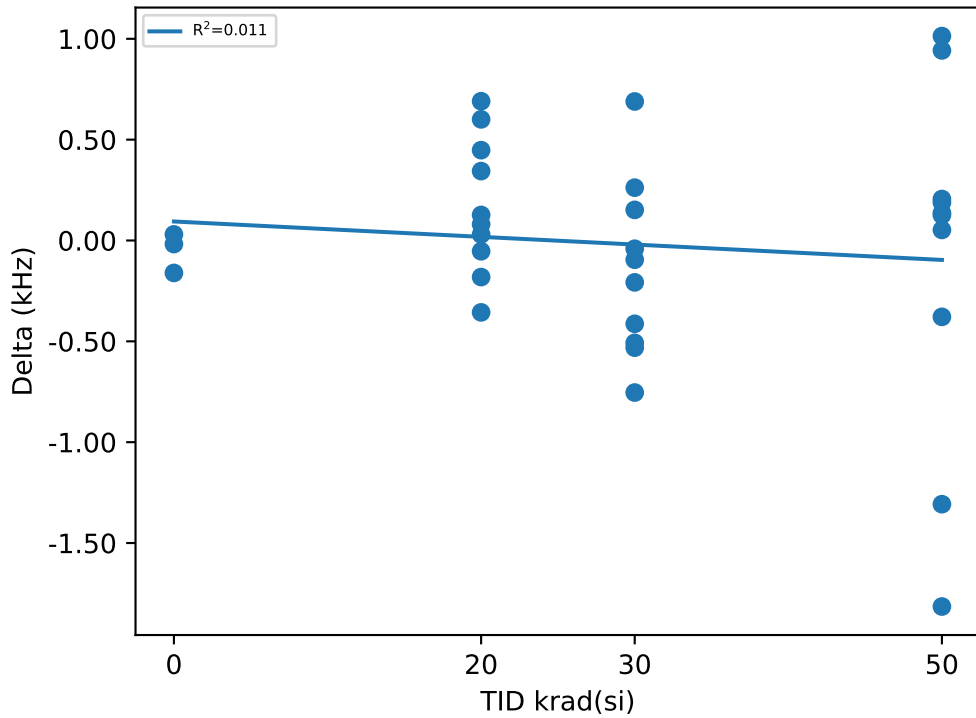
### TID vs Result Stats



### Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	199.02	198.97	-0.0534
22	20	HDR BIAS	193.69	193.33	-0.3564
23	20	HDR BIAS	196.65	197.34	0.6905
24	20	HDR BIAS	189.04	189.07	0.0302
25	20	HDR BIAS	196.97	197.1	0.1266
26	20	HDR UNBIAS	196.68	197.02	0.3441
27	20	HDR UNBIAS	193.65	194.25	0.6006
28	20	HDR UNBIAS	194.93	195.38	0.4479
29	20	HDR UNBIAS	197.22	197.3	0.0803
30	20	HDR UNBIAS	198.33	198.15	-0.1813
31	30	HDR BIAS	193.85	194.54	0.6893
32	30	HDR BIAS	198.24	198.39	0.1518
33	30	HDR BIAS	193.52	193.31	-0.2076
34	30	HDR BIAS	188.54	188.01	-0.5314
35	30	HDR BIAS	196.52	196.01	-0.5075
36	30	HDR UNBIAS	196.44	196.35	-0.0952
37	30	HDR UNBIAS	195.65	195.91	0.2619
38	30	HDR UNBIAS	193.25	193.21	-0.0409
39	30	HDR UNBIAS	197.89	197.48	-0.4131
40	30	HDR UNBIAS	194.55	193.8	-0.7539
41	50	HDR BIAS	194.28	193.91	-0.3786
42	50	HDR BIAS	197.43	196.13	-1.3075
43	50	HDR BIAS	192.06	192.2	0.1365
44	50	HDR BIAS	196.1	196.23	0.1263
45	50	HDR BIAS	192.31	192.5	0.1881
46	50	HDR UNBIAS	196.27	196.47	0.2056
47	50	HDR UNBIAS	194.92	194.97	0.0524
48	50	HDR UNBIAS	196.19	194.38	-1.8148
49	50	HDR UNBIAS	193.84	194.85	1.0135
50	50	HDR UNBIAS	195.81	196.75	0.9424
71	0	CORRELATION	192.64	192.62	-0.0177
72	0	CORRELATION	194.78	194.62	-0.1609
73	0	CORRELATION	195.7	195.73	0.0302

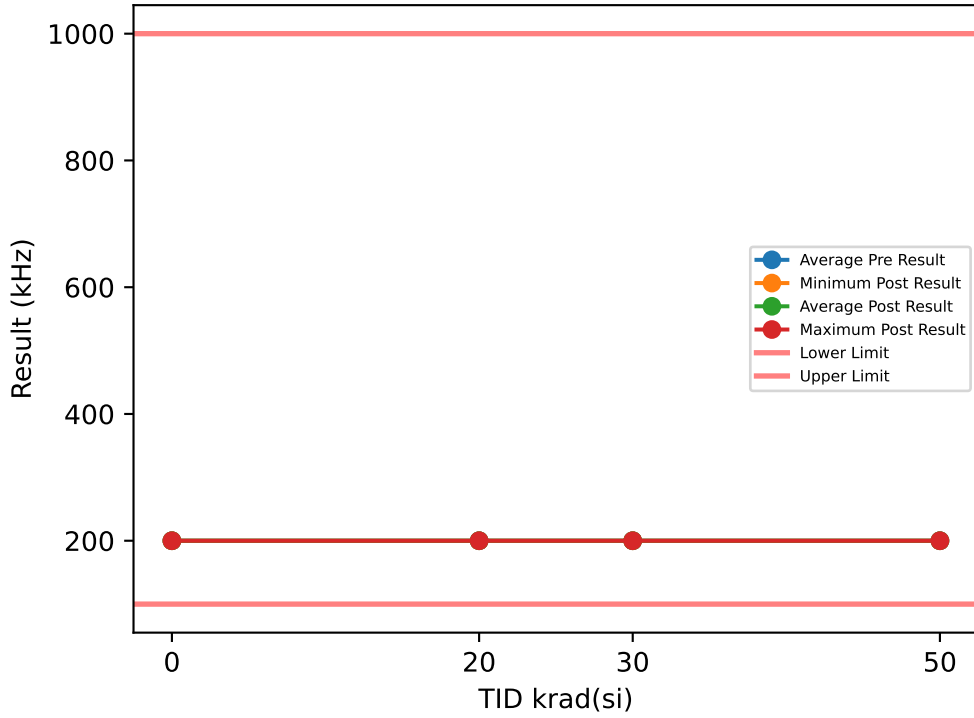
### TID vs Post - Pre Exposure Delta



### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	192.64	194.37	195.7	1.5697	192.62	194.32	195.73	1.5745	-0.1609	-0.049467	0.0302	0.099432
20	189.04	195.62	199.02	2.9225	189.07	195.79	198.97	2.9308	-0.3564	0.17291	0.6905	0.34054
30	188.54	194.85	198.24	2.8271	188.01	194.7	198.39	2.9254	-0.7539	-0.14466	0.6893	0.43337
50	192.06	194.92	197.43	1.7788	192.2	194.84	196.75	1.6137	-1.8148	-0.08361	1.0135	0.88862

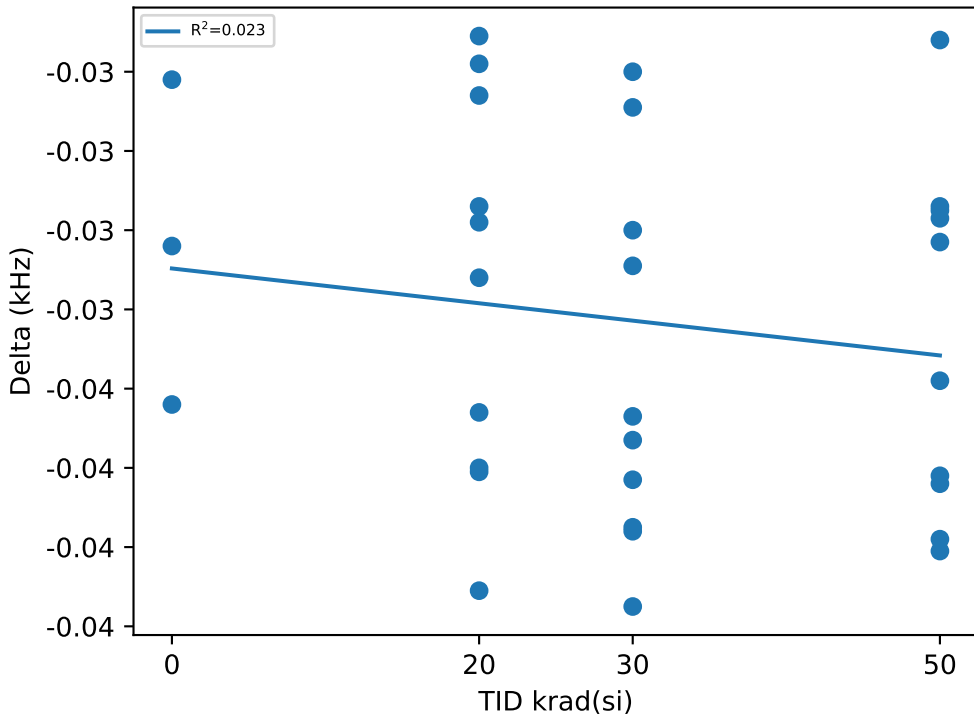
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	200.01	199.97	-0.0411
22	20	HDR BIAS	200	199.97	-0.0278
23	20	HDR BIAS	200.01	199.97	-0.0366
24	20	HDR BIAS	200.01	199.98	-0.0286
25	20	HDR BIAS	200	199.97	-0.0318
26	20	HDR UNBIAS	200.01	199.97	-0.038
27	20	HDR UNBIAS	200	199.98	-0.0271
28	20	HDR UNBIAS	200.01	199.98	-0.0314
29	20	HDR UNBIAS	200.01	199.97	-0.0381
30	20	HDR UNBIAS	200	199.97	-0.0332
31	30	HDR BIAS	200.01	199.97	-0.0373
32	30	HDR BIAS	200.01	199.97	-0.032
33	30	HDR BIAS	200.01	199.98	-0.0289
34	30	HDR BIAS	200	199.97	-0.0329
35	30	HDR BIAS	200.01	199.97	-0.0396
36	30	HDR UNBIAS	200.01	199.97	-0.0383
37	30	HDR UNBIAS	200.01	199.97	-0.0395
38	30	HDR UNBIAS	200.01	199.97	-0.0415
39	30	HDR UNBIAS	200.01	199.97	-0.0367
40	30	HDR UNBIAS	200	199.97	-0.028
41	50	HDR BIAS	200	199.97	-0.0315
42	50	HDR BIAS	200.01	199.98	-0.0317
43	50	HDR BIAS	200.01	199.97	-0.0401
44	50	HDR BIAS	200.01	199.97	-0.0358
45	50	HDR BIAS	200.01	199.97	-0.0323
46	50	HDR UNBIAS	200	199.98	-0.0272
47	50	HDR UNBIAS	200.01	199.97	-0.0314
48	50	HDR UNBIAS	200.01	199.97	-0.0382
49	50	HDR UNBIAS	200.01	199.97	-0.0398
50	50	HDR UNBIAS	200	199.97	-0.0384
71	0	CORRELATION	200	199.97	-0.0324
72	0	CORRELATION	200.01	199.97	-0.0364
73	0	CORRELATION	200.01	199.98	-0.0282

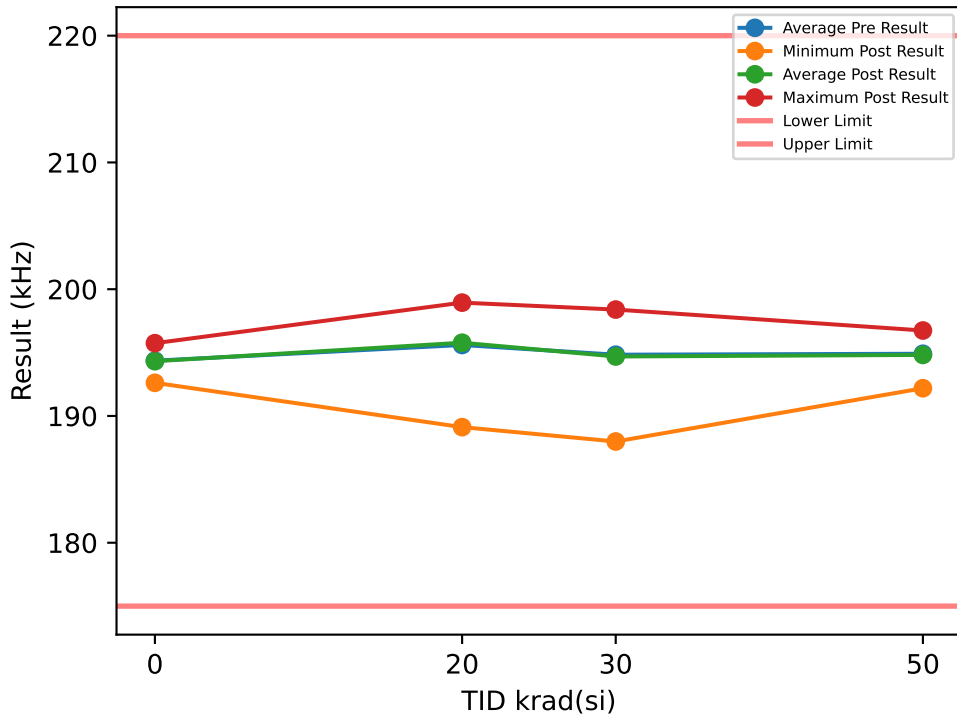
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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	200.01	200.01	0.003296	199.97	199.97	199.98	0.0032787	-0.0364	-0.032333	-0.0282	0.0041004
20	200	200.01	200.01	0.0035298	199.97	199.97	199.98	0.0028796	-0.0411	-0.03337	-0.0271	0.0048701
30	200	200.01	200.01	0.0032921	199.97	199.97	199.98	0.0027605	-0.0415	-0.03547	-0.028	0.0047157
50	200	200.01	200.01	0.0031546	199.97	199.97	199.98	0.0035852	-0.0401	-0.03464	-0.0272	0.0044023

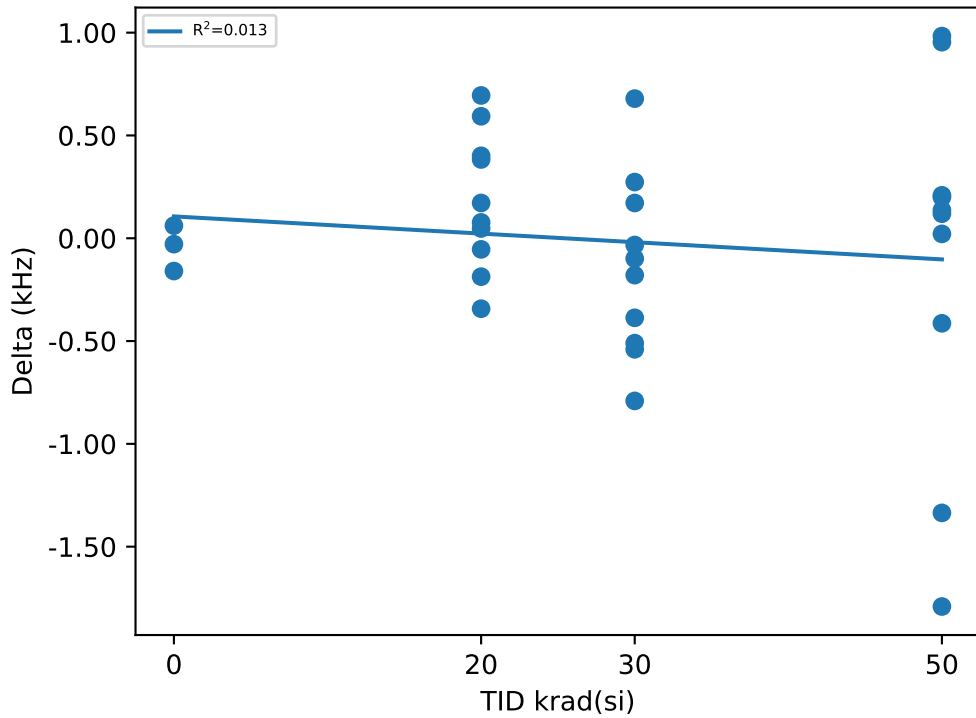
TID vs Result Stats



Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	199	198.94	-0.0541
22	20	HDR BIAS	193.66	193.32	-0.3427
23	20	HDR BIAS	196.62	197.31	0.6945
24	20	HDR BIAS	189.04	189.12	0.0771
25	20	HDR BIAS	196.94	197.11	0.1716
26	20	HDR UNBIAS	196.63	197.01	0.3832
27	20	HDR UNBIAS	193.63	194.22	0.5932
28	20	HDR UNBIAS	194.95	195.35	0.401
29	20	HDR UNBIAS	197.23	197.28	0.0476
30	20	HDR UNBIAS	198.3	198.12	-0.1868
31	30	HDR BIAS	193.85	194.53	0.6792
32	30	HDR BIAS	198.22	198.39	0.1715
33	30	HDR BIAS	193.49	193.31	-0.1794
34	30	HDR BIAS	188.53	187.99	-0.5401
35	30	HDR BIAS	196.49	195.98	-0.5101
36	30	HDR UNBIAS	196.42	196.32	-0.0988
37	30	HDR UNBIAS	195.64	195.91	0.2733
38	30	HDR UNBIAS	193.25	193.22	-0.0329
39	30	HDR UNBIAS	197.88	197.49	-0.3869
40	30	HDR UNBIAS	194.56	193.77	-0.7911
41	50	HDR BIAS	194.29	193.88	-0.4137
42	50	HDR BIAS	197.43	196.09	-1.3357
43	50	HDR BIAS	192.05	192.19	0.137
44	50	HDR BIAS	196.09	196.2	0.1194
45	50	HDR BIAS	192.29	192.5	0.2088
46	50	HDR UNBIAS	196.25	196.45	0.1995
47	50	HDR UNBIAS	194.9	194.92	0.0212
48	50	HDR UNBIAS	196.16	194.37	-1.7911
49	50	HDR UNBIAS	193.83	194.81	0.9833
50	50	HDR UNBIAS	195.79	196.74	0.9537
71	0	CORRELATION	192.64	192.62	-0.0287
72	0	CORRELATION	194.76	194.6	-0.1595
73	0	CORRELATION	195.68	195.74	0.0614

TID vs Post - Pre Exposure Delta

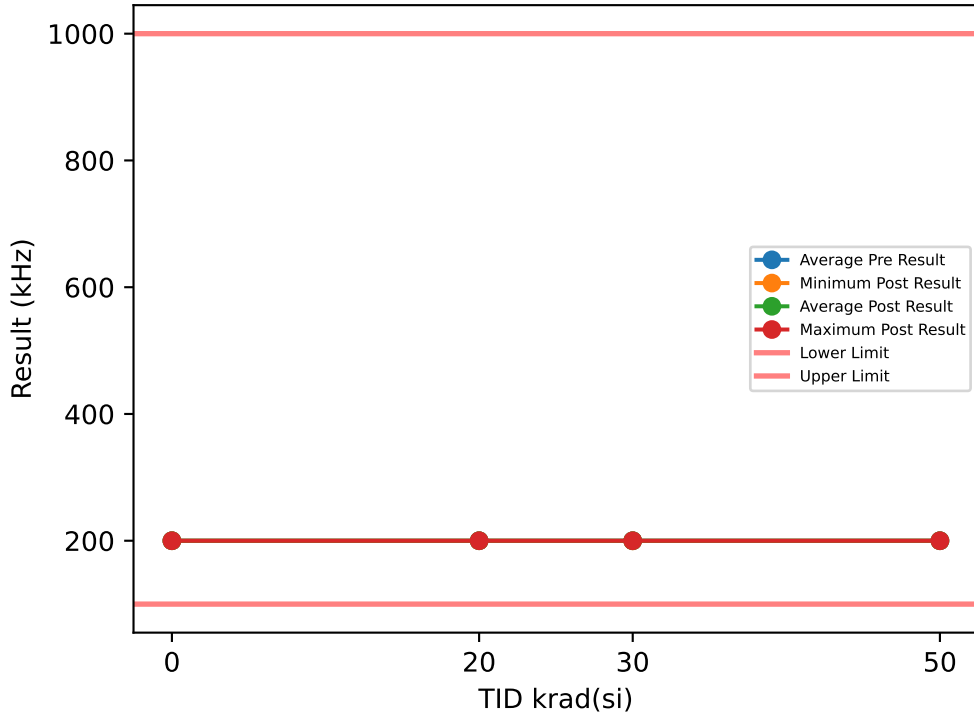


Test Statistics (kHz)

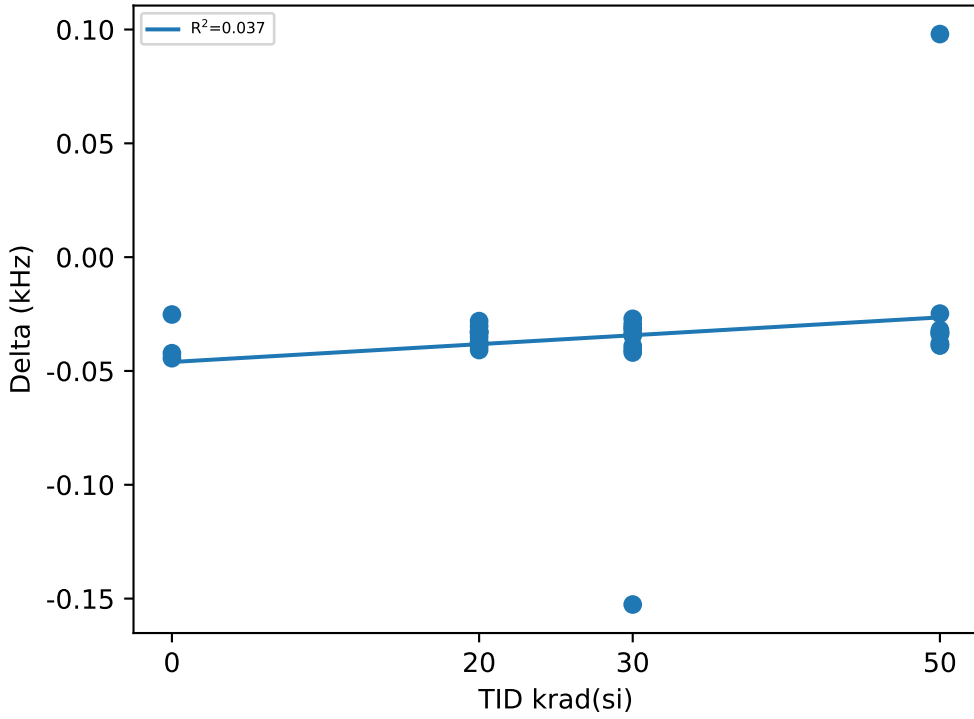
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	192.64	194.36	195.68	1.5576	192.62	194.32	195.74	1.5826	-0.1595	-0.042267	0.0614	0.11107
20	189.04	195.6	199	2.9145	189.12	195.78	198.94	2.9129	-0.3427	0.17846	0.6945	0.33604
30	188.53	194.83	198.22	2.8251	187.99	194.69	198.39	2.9306	-0.7911	-0.14153	0.6792	0.43914
50	192.05	194.91	197.43	1.778	192.19	194.82	196.74	1.6096	-1.7911	-0.09176	0.9833	0.88646

# Device Test: 20.86 LEVEL|FREQ/SYNC/14/14/0/1000/5/200kHz//@FREQ\_SYNC\_EXT

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



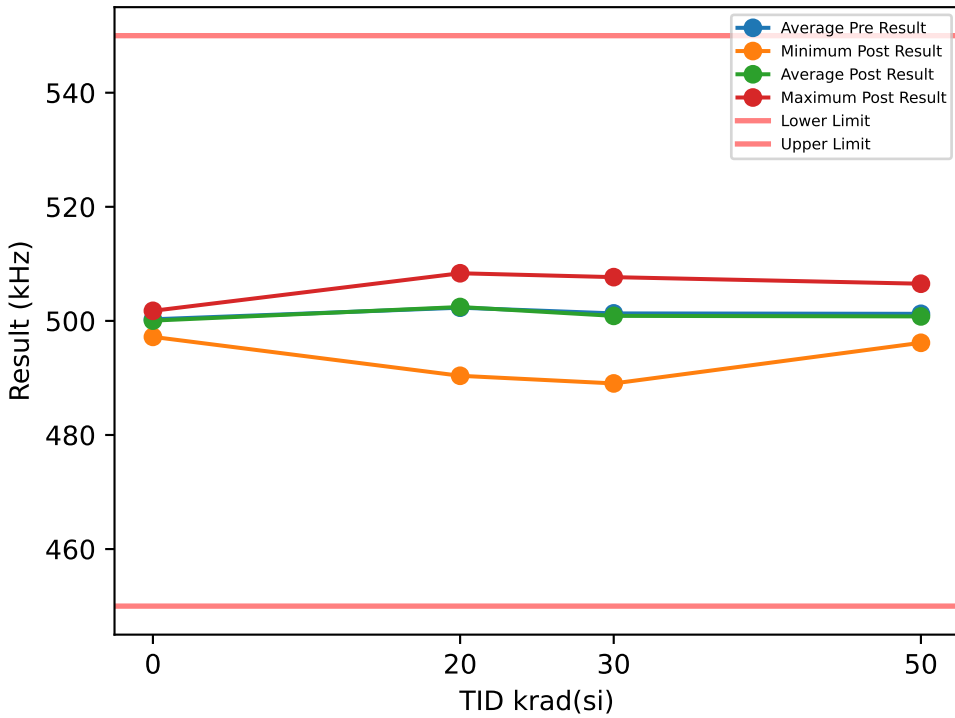
### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	200.01	199.98	-0.0351
22	20	HDR BIAS	200	199.97	-0.0281
23	20	HDR BIAS	200.01	199.97	-0.0333
24	20	HDR BIAS	200.01	199.97	-0.0379
25	20	HDR BIAS	200	199.97	-0.0303
26	20	HDR UNBIAS	200.01	199.97	-0.039
27	20	HDR UNBIAS	200.01	199.97	-0.0328
28	20	HDR UNBIAS	200.01	199.97	-0.0373
29	20	HDR UNBIAS	200.01	199.97	-0.0408
30	20	HDR UNBIAS	200.01	199.98	-0.0327
31	30	HDR BIAS	200	199.97	-0.0295
32	30	HDR BIAS	200.02	199.97	-0.0419
33	30	HDR BIAS	200.01	199.98	-0.0344
34	30	HDR BIAS	200.01	199.86	-0.1526
35	30	HDR BIAS	200.01	199.97	-0.039
36	30	HDR UNBIAS	200.01	199.98	-0.031
37	30	HDR UNBIAS	200.01	199.98	-0.0316
38	30	HDR UNBIAS	200.01	199.97	-0.0407
39	30	HDR UNBIAS	200.01	199.97	-0.0337
40	30	HDR UNBIAS	200	199.98	-0.0271
41	50	HDR BIAS	200.01	199.97	-0.0331
42	50	HDR BIAS	199.88	199.97	0.098
43	50	HDR BIAS	200.01	199.98	-0.0329
44	50	HDR BIAS	200.01	199.97	-0.0378
45	50	HDR BIAS	200.01	199.97	-0.0387
46	50	HDR UNBIAS	200	199.98	-0.0248
47	50	HDR UNBIAS	200.01	199.97	-0.0388
48	50	HDR UNBIAS	200.01	199.98	-0.0339
49	50	HDR UNBIAS	200	199.97	-0.0336
50	50	HDR UNBIAS	200	199.97	-0.032
71	0	CORRELATION	200.01	199.97	-0.0422
72	0	CORRELATION	200.01	199.97	-0.0444
73	0	CORRELATION	200	199.98	-0.0252

### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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	200.01	200.01	0.0045764	199.97	199.97	199.98	0.00652	-0.0444	-0.037267	-0.0252	0.010508
20	200	200.01	200.01	0.0041852	199.97	199.97	199.98	0.0031269	-0.0408	-0.03473	-0.0281	0.0040186
30	200	200.01	200.02	0.004061	199.86	199.96	199.98	0.037632	-0.1526	-0.04615	-0.0271	0.03772
50	199.88	199.99	200.01	0.041707	199.97	199.97	199.98	0.0029438	-0.0388	-0.02076	0.098	0.041928

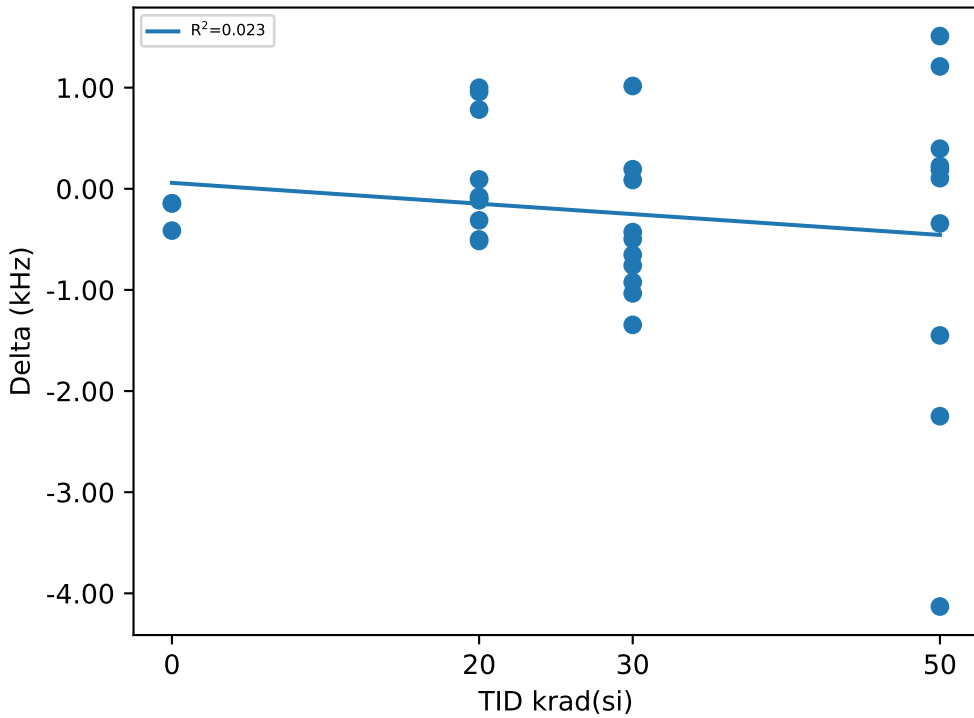
TID vs Result Stats



Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	508.66	508.35	-0.3121
22	20	HDR BIAS	498.19	497.67	-0.516
23	20	HDR BIAS	503.33	504.33	0.9992
24	20	HDR BIAS	490.47	490.38	-0.0955
25	20	HDR BIAS	506.22	506.1	-0.1139
26	20	HDR UNBIAS	504.56	504.66	0.0926
27	20	HDR UNBIAS	497.17	498.13	0.9582
28	20	HDR UNBIAS	502.55	503.34	0.7831
29	20	HDR UNBIAS	505.63	505.55	-0.0791
30	20	HDR UNBIAS	506.36	505.86	-0.5008
31	30	HDR BIAS	498.84	499.86	1.0165
32	30	HDR BIAS	507.58	507.67	0.0867
33	30	HDR BIAS	498.99	498.24	-0.7587
34	30	HDR BIAS	489.96	489.04	-0.9239
35	30	HDR BIAS	504.28	502.93	-1.3455
36	30	HDR UNBIAS	504.41	503.98	-0.4283
37	30	HDR UNBIAS	502.08	502.28	0.1935
38	30	HDR UNBIAS	499.62	499.12	-0.4977
39	30	HDR UNBIAS	507.04	506.39	-0.6529
40	30	HDR UNBIAS	500.34	499.3	-1.0343
41	50	HDR BIAS	500.66	499.21	-1.4498
42	50	HDR BIAS	503.98	501.73	-2.2488
43	50	HDR BIAS	495.76	496.16	0.3962
44	50	HDR BIAS	503.63	503.74	0.105
45	50	HDR BIAS	496.49	496.71	0.2258
46	50	HDR UNBIAS	502.98	503.17	0.1889
47	50	HDR UNBIAS	501.88	501.54	-0.3428
48	50	HDR UNBIAS	501.09	496.96	-4.1303
49	50	HDR UNBIAS	500.92	502.13	1.2098
50	50	HDR UNBIAS	505.01	506.52	1.5099
71	0	CORRELATION	497.34	497.2	-0.1441
72	0	CORRELATION	501.32	501.18	-0.1439
73	0	CORRELATION	502.18	501.76	-0.4134

TID vs Post - Pre Exposure Delta

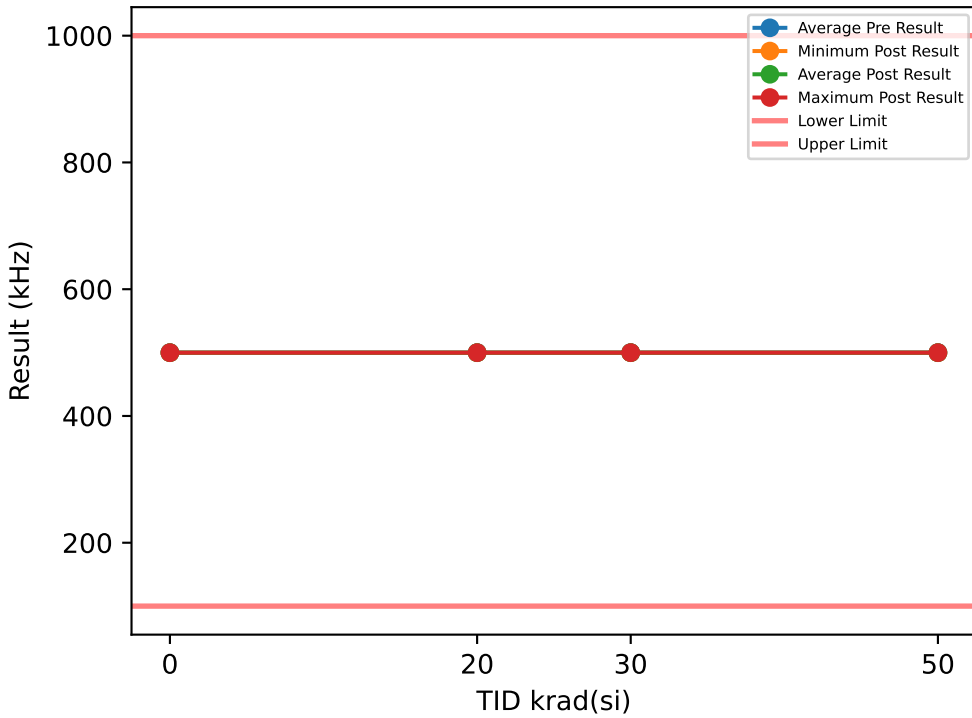


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	497.34	500.28	502.18	2.5796	497.2	500.05	501.76	2.4835	-0.4134	-0.2338	-0.1439	0.15554
20	490.47	502.31	508.66	5.5045	490.38	502.44	508.35	5.4342	-0.516	0.12157	0.9992	0.58055
30	489.96	501.31	507.58	5.1128	489.04	500.88	507.67	5.229	-1.3455	-0.43446	1.0165	0.69582
50	495.76	501.24	505.01	3.053	496.16	500.79	506.52	3.4256	-4.1303	-0.45361	1.5099	1.7087



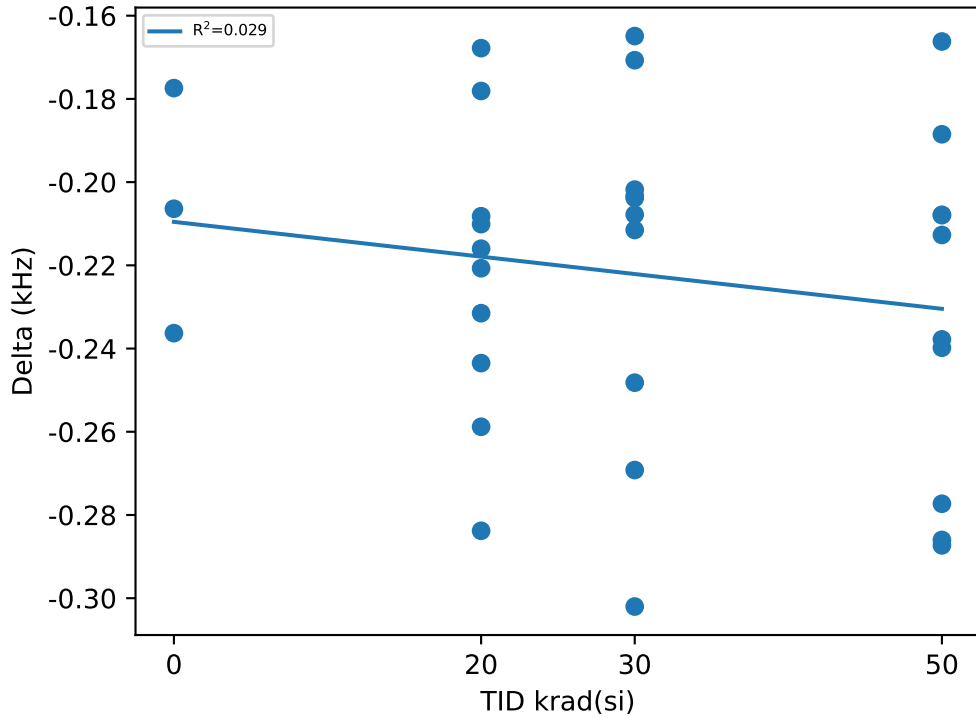
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	500.07	499.83	-0.2435
22	20	HDR BIAS	500.02	499.81	-0.2101
23	20	HDR BIAS	500.07	499.79	-0.2838
24	20	HDR BIAS	500.03	499.83	-0.2082
25	20	HDR BIAS	500.03	499.81	-0.216
26	20	HDR UNBIAS	500.04	499.81	-0.2315
27	20	HDR UNBIAS	500.1	499.88	-0.2207
28	20	HDR UNBIAS	500.04	499.86	-0.1781
29	20	HDR UNBIAS	500.05	499.79	-0.2588
30	20	HDR UNBIAS	500.04	499.87	-0.1678
31	30	HDR BIAS	500.02	499.82	-0.2033
32	30	HDR BIAS	500.09	499.78	-0.302
33	30	HDR BIAS	500.04	499.83	-0.2038
34	30	HDR BIAS	499.98	499.81	-0.1649
35	30	HDR BIAS	500.07	499.81	-0.2692
36	30	HDR UNBIAS	500.06	499.89	-0.1707
37	30	HDR UNBIAS	500.08	499.87	-0.2115
38	30	HDR UNBIAS	500.02	499.81	-0.2078
39	30	HDR UNBIAS	500.09	499.89	-0.2018
40	30	HDR UNBIAS	500.05	499.8	-0.2482
41	50	HDR BIAS	500.08	499.84	-0.2398
42	50	HDR BIAS	500.04	499.83	-0.2127
43	50	HDR BIAS	499.99	499.82	-0.1662
44	50	HDR BIAS	500.09	499.8	-0.286
45	50	HDR BIAS	500.07	499.88	-0.1885
46	50	HDR UNBIAS	500.01	499.8	-0.2079
47	50	HDR UNBIAS	500.07	499.78	-0.2873
48	50	HDR UNBIAS	500.08	499.88	-0.2079
49	50	HDR UNBIAS	500.1	499.86	-0.2378
50	50	HDR UNBIAS	500.12	499.84	-0.2773
71	0	CORRELATION	500	499.82	-0.1774
72	0	CORRELATION	500.03	499.8	-0.2363
73	0	CORRELATION	500.03	499.83	-0.2064

TID vs Post - Pre Exposure Delta

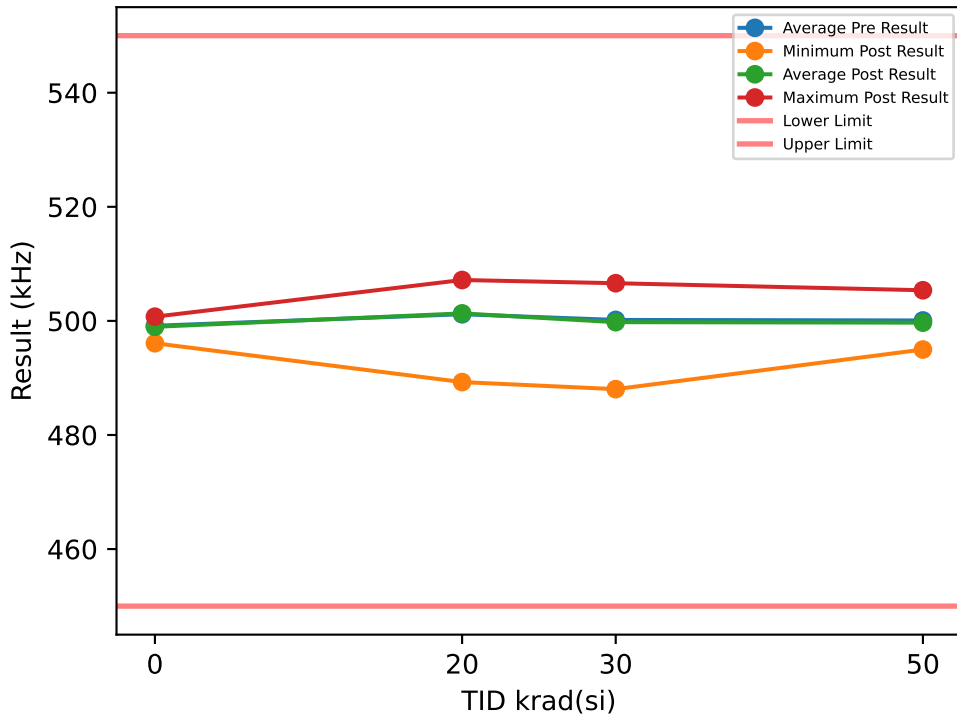


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500	500.02	500.03	0.019891	499.8	499.81	499.83	0.014907	-0.2363	-0.2067	-0.1774	0.029451
20	500.02	500.05	500.1	0.023965	499.79	499.83	499.88	0.033021	-0.2838	-0.22185	-0.1678	0.034897
30	499.98	500.05	500.09	0.035946	499.78	499.83	499.89	0.037494	-0.302	-0.21832	-0.1649	0.042781
50	499.99	500.06	500.12	0.040977	499.78	499.83	499.88	0.033064	-0.2873	-0.23114	-0.1662	0.041991



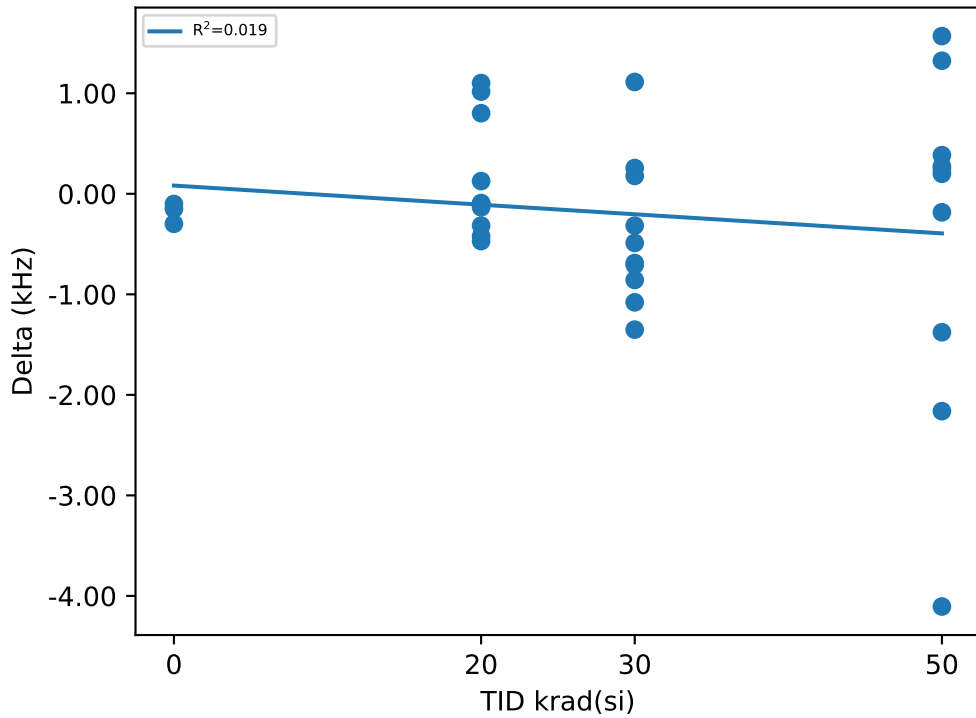
TID vs Result Stats



Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	507.48	507.17	-0.3164
22	20	HDR BIAS	497.07	496.65	-0.4217
23	20	HDR BIAS	502.16	503.26	1.1013
24	20	HDR BIAS	489.37	489.27	-0.0919
25	20	HDR BIAS	505.07	504.97	-0.099
26	20	HDR UNBIAS	503.32	503.45	0.1263
27	20	HDR UNBIAS	496.11	497.12	1.0166
28	20	HDR UNBIAS	501.29	502.09	0.8015
29	20	HDR UNBIAS	504.58	504.45	-0.1346
30	20	HDR UNBIAS	505.22	504.75	-0.4703
31	30	HDR BIAS	497.62	498.73	1.1124
32	30	HDR BIAS	506.43	506.61	0.178
33	30	HDR BIAS	497.82	497.13	-0.689
34	30	HDR BIAS	488.89	488.04	-0.857
35	30	HDR BIAS	503.18	501.83	-1.3513
36	30	HDR UNBIAS	503.25	502.93	-0.3169
37	30	HDR UNBIAS	500.87	501.13	0.2564
38	30	HDR UNBIAS	498.5	498.01	-0.4888
39	30	HDR UNBIAS	505.88	505.17	-0.7073
40	30	HDR UNBIAS	499.28	498.2	-1.0795
41	50	HDR BIAS	499.47	498.09	-1.377
42	50	HDR BIAS	502.78	500.62	-2.162
43	50	HDR BIAS	494.6	494.98	0.3844
44	50	HDR BIAS	502.48	502.68	0.1989
45	50	HDR BIAS	495.34	495.61	0.2746
46	50	HDR UNBIAS	501.94	502.18	0.2439
47	50	HDR UNBIAS	500.77	500.58	-0.184
48	50	HDR UNBIAS	499.99	495.88	-4.1052
49	50	HDR UNBIAS	499.6	500.93	1.3237
50	50	HDR UNBIAS	503.8	505.37	1.5688
71	0	CORRELATION	496.23	496.08	-0.1495
72	0	CORRELATION	500.17	500.07	-0.1015
73	0	CORRELATION	501.03	500.74	-0.2985

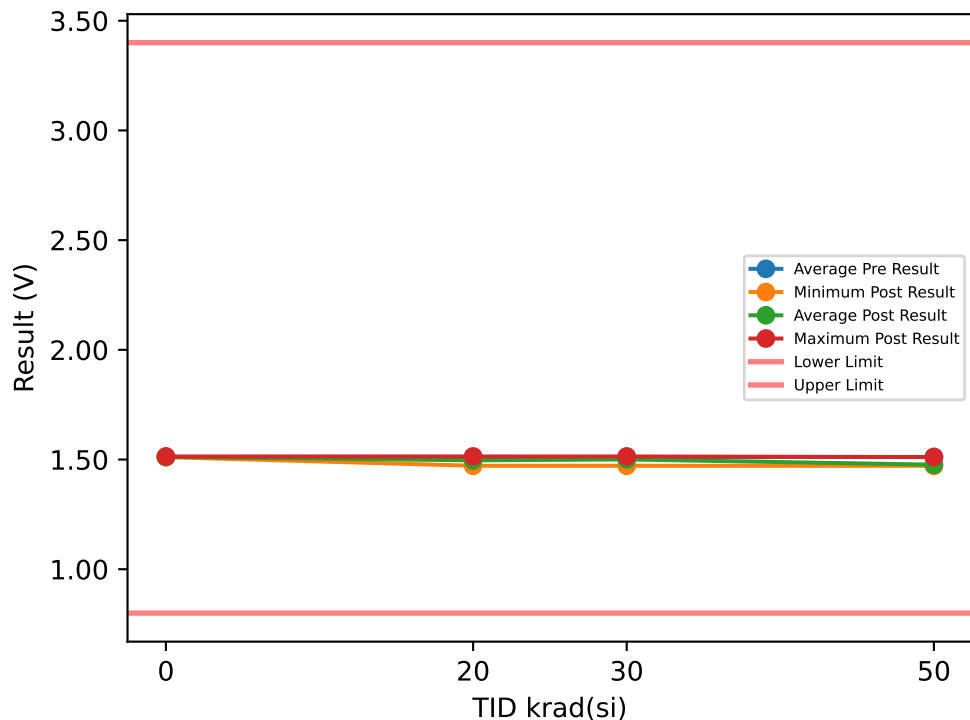
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	496.23	499.15	501.03	2.5588	496.08	498.96	500.74	2.5152	-0.2985	-0.18317	-0.1015	0.10272
20	489.37	501.17	507.48	5.4821	489.27	501.32	507.17	5.4002	-0.4703	0.15118	1.1013	0.59737
30	488.89	500.17	506.43	5.0945	488.04	499.78	506.61	5.1993	-1.3513	-0.3943	1.1124	0.73184
50	494.6	500.08	503.8	3.055	494.98	499.69	505.37	3.4394	-4.1052	-0.38339	1.5688	1.7167

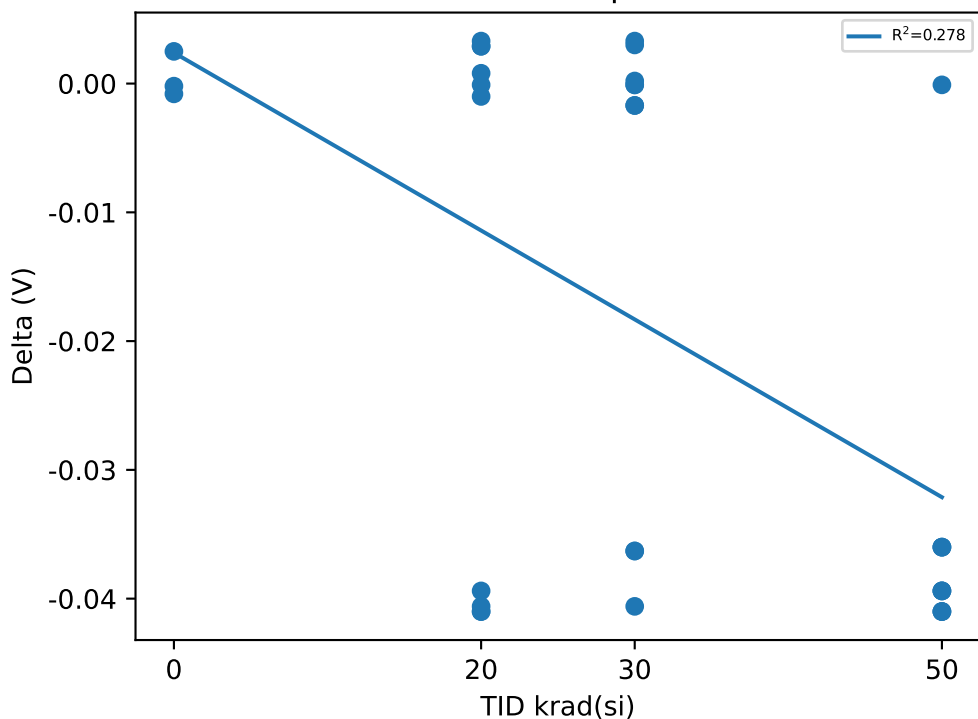
TID vs Result Stats



Test Results (Lower Limit = 0.8, Upper Limit = 3.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.5122	1.4716	-0.0406
22	20	HDR BIAS	1.5107	1.514	0.0033
23	20	HDR BIAS	1.5112	1.512	0.0008
24	20	HDR BIAS	1.5122	1.5112	-0.001
25	20	HDR BIAS	1.5111	1.514	0.0029
26	20	HDR UNBIAS	1.5115	1.4721	-0.0394
27	20	HDR UNBIAS	1.5126	1.4716	-0.041
28	20	HDR UNBIAS	1.5111	1.514	0.0029
29	20	HDR UNBIAS	1.5115	1.5114	-0.0001
30	20	HDR UNBIAS	1.5126	1.4716	-0.041
31	30	HDR BIAS	1.5107	1.4744	-0.0363
32	30	HDR BIAS	1.5115	1.5114	-0.0001
33	30	HDR BIAS	1.5126	1.5109	-0.0017
34	30	HDR BIAS	1.5107	1.5137	0.003
35	30	HDR BIAS	1.5115	1.5114	-0.0001
36	30	HDR UNBIAS	1.5126	1.5109	-0.0017
37	30	HDR UNBIAS	1.5107	1.4744	-0.0363
38	30	HDR UNBIAS	1.5112	1.5114	0.0002
39	30	HDR UNBIAS	1.5122	1.4716	-0.0406
40	30	HDR UNBIAS	1.5107	1.514	0.0033
41	50	HDR BIAS	1.5115	1.5114	-0.0001
42	50	HDR BIAS	1.5122	1.4712	-0.041
43	50	HDR BIAS	1.5107	1.4747	-0.036
44	50	HDR BIAS	1.5115	1.4721	-0.0394
45	50	HDR BIAS	1.5122	1.4712	-0.041
46	50	HDR UNBIAS	1.5104	1.4744	-0.036
47	50	HDR UNBIAS	1.5115	1.4721	-0.0394
48	50	HDR UNBIAS	1.5126	1.4716	-0.041
49	50	HDR UNBIAS	1.5107	1.4747	-0.036
50	50	HDR UNBIAS	1.5115	1.4721	-0.0394
71	0	CORRELATION	1.5115	1.514	0.0025
72	0	CORRELATION	1.5122	1.5114	-0.0008
73	0	CORRELATION	1.5111	1.5109	-0.0002

TID vs Post - Pre Exposure Delta

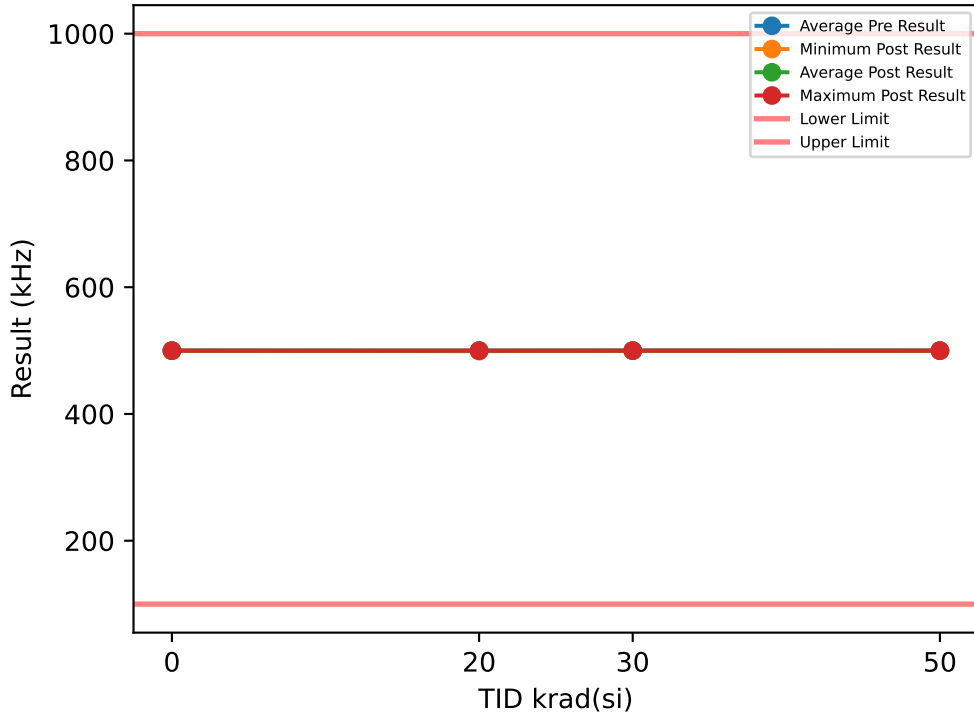


Test Statistics (V)

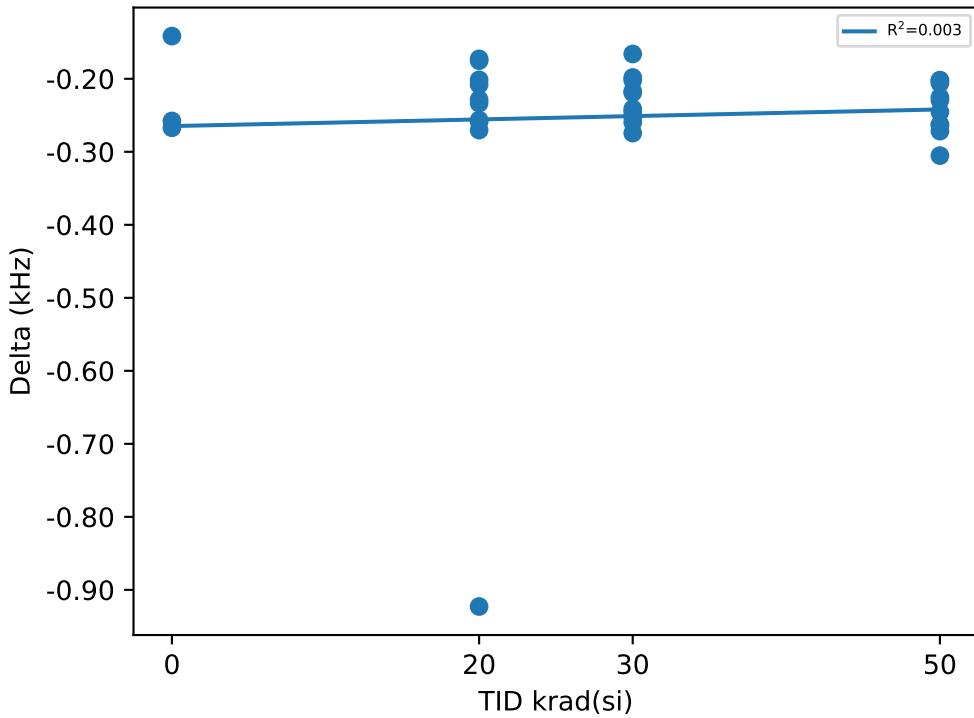
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5111	1.5116	1.5122	0.00055678	1.5109	1.5121	1.514	0.0016643	-0.0008	0.0005	0.0025	0.0017578
20	1.5107	1.5117	1.5126	0.00067995	1.4716	1.4964	1.514	0.021219	-0.041	-0.01532	0.0033	0.021718
30	1.5107	1.5114	1.5126	0.00078344	1.4716	1.5004	1.514	0.018639	-0.0406	-0.01103	0.0033	0.018538
50	1.5104	1.5115	1.5126	0.0007208	1.4712	1.4766	1.5114	0.012325	-0.041	-0.03493	-0.0001	0.012414

# Device Test: 20.90 LEVEL|FREQ/SYNC/5/5/0/1000/5/500kHz//@FREQ\_SYNC\_EXT

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



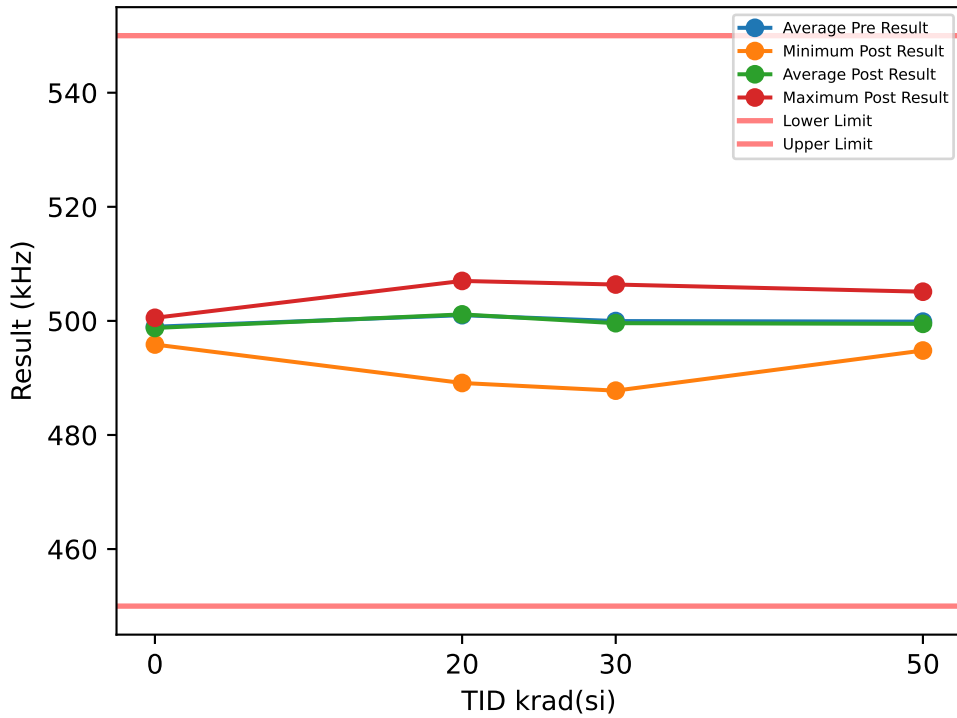
### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	500.03	499.83	-0.2079
22	20	HDR BIAS	500.03	499.11	-0.9228
23	20	HDR BIAS	500.07	499.8	-0.2703
24	20	HDR BIAS	500.09	499.83	-0.2588
25	20	HDR BIAS	500.09	499.84	-0.2565
26	20	HDR UNBIAS	500.04	499.84	-0.2014
27	20	HDR UNBIAS	500.05	499.88	-0.1752
28	20	HDR UNBIAS	500.04	499.87	-0.1727
29	20	HDR UNBIAS	500.08	499.85	-0.2334
30	20	HDR UNBIAS	500.05	499.82	-0.2284
31	30	HDR BIAS	499.98	499.81	-0.166
32	30	HDR BIAS	500.09	499.83	-0.2597
33	30	HDR BIAS	500.04	499.82	-0.2171
34	30	HDR BIAS	500.01	499.81	-0.1982
35	30	HDR BIAS	500.06	499.79	-0.2744
36	30	HDR UNBIAS	500.07	499.83	-0.2454
37	30	HDR UNBIAS	500.03	499.81	-0.2191
38	30	HDR UNBIAS	500.08	499.84	-0.2411
39	30	HDR UNBIAS	500.08	499.88	-0.202
40	30	HDR UNBIAS	500.07	499.81	-0.2523
41	50	HDR BIAS	500.08	499.81	-0.2717
42	50	HDR BIAS	500.08	499.83	-0.2455
43	50	HDR BIAS	500.02	499.81	-0.206
44	50	HDR BIAS	500.07	499.84	-0.2254
45	50	HDR BIAS	500.03	499.83	-0.2025
46	50	HDR UNBIAS	500.06	499.8	-0.2626
47	50	HDR UNBIAS	500.09	499.79	-0.3052
48	50	HDR UNBIAS	500.08	499.82	-0.2631
49	50	HDR UNBIAS	500.06	499.83	-0.2294
50	50	HDR UNBIAS	500.03	499.83	-0.2018
71	0	CORRELATION	500.07	499.81	-0.2577
72	0	CORRELATION	500.05	499.78	-0.2671
73	0	CORRELATION	500.01	499.87	-0.1415

### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.01	500.04	500.07	0.030237	499.78	499.82	499.87	0.04432	-0.2671	-0.2221	-0.1415	0.06996
20	500.03	500.06	500.09	0.023911	499.11	499.77	499.88	0.2315	-0.9228	-0.29274	-0.1727	0.22395
30	499.98	500.05	500.09	0.037074	499.79	499.82	499.88	0.024106	-0.2744	-0.22753	-0.166	0.033043
50	500.02	500.06	500.09	0.025541	499.79	499.82	499.84	0.017943	-0.3052	-0.24132	-0.2018	0.034416

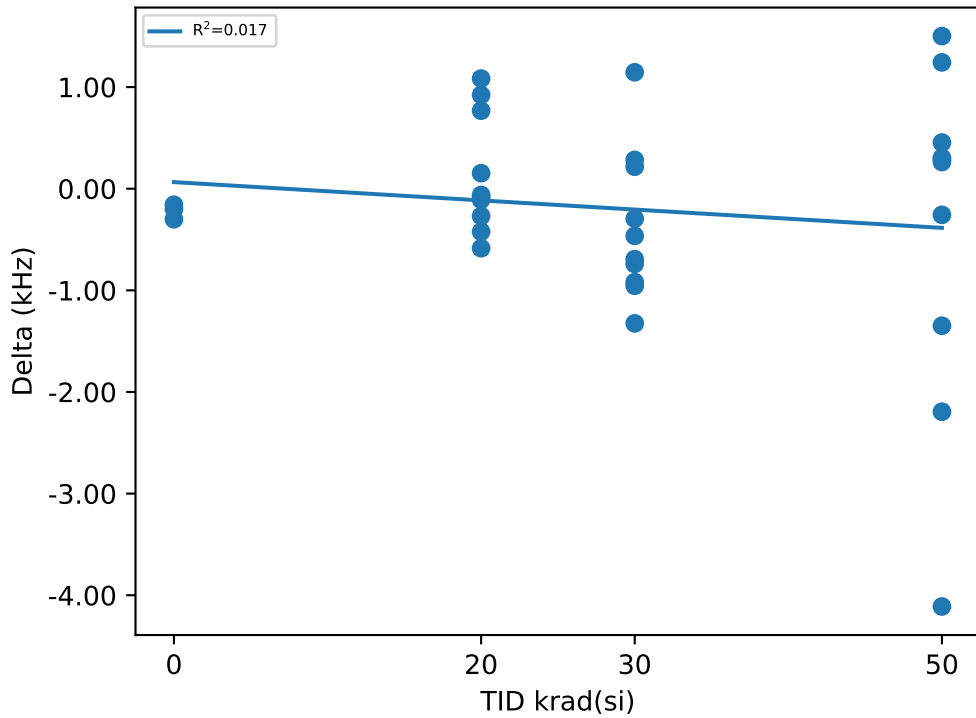
TID vs Result Stats



Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	507.27	507.01	-0.269
22	20	HDR BIAS	496.91	496.49	-0.4233
23	20	HDR BIAS	501.99	503.07	1.0837
24	20	HDR BIAS	489.18	489.11	-0.0614
25	20	HDR BIAS	504.83	504.75	-0.0773
26	20	HDR UNBIAS	503.11	503.27	0.1523
27	20	HDR UNBIAS	496.02	496.95	0.9221
28	20	HDR UNBIAS	501.18	501.95	0.7677
29	20	HDR UNBIAS	504.4	504.29	-0.1087
30	20	HDR UNBIAS	505.13	504.54	-0.5858
31	30	HDR BIAS	497.39	498.54	1.1457
32	30	HDR BIAS	506.16	506.37	0.2159
33	30	HDR BIAS	497.68	496.98	-0.6933
34	30	HDR BIAS	488.69	487.77	-0.9188
35	30	HDR BIAS	503	501.68	-1.3252
36	30	HDR UNBIAS	503.09	502.8	-0.2946
37	30	HDR UNBIAS	500.65	500.93	0.2836
38	30	HDR UNBIAS	498.31	497.85	-0.4643
39	30	HDR UNBIAS	505.69	504.95	-0.7402
40	30	HDR UNBIAS	499.05	498.1	-0.9553
41	50	HDR BIAS	499.29	497.94	-1.3481
42	50	HDR BIAS	502.57	500.38	-2.1944
43	50	HDR BIAS	494.35	494.81	0.454
44	50	HDR BIAS	502.25	502.56	0.3047
45	50	HDR BIAS	495.16	495.44	0.2885
46	50	HDR UNBIAS	501.73	501.99	0.2623
47	50	HDR UNBIAS	500.57	500.32	-0.2572
48	50	HDR UNBIAS	499.78	495.67	-4.111
49	50	HDR UNBIAS	499.39	500.64	1.2431
50	50	HDR UNBIAS	503.62	505.12	1.5018
71	0	CORRELATION	496.06	495.86	-0.2003
72	0	CORRELATION	500.04	499.88	-0.1581
73	0	CORRELATION	500.84	500.54	-0.3003

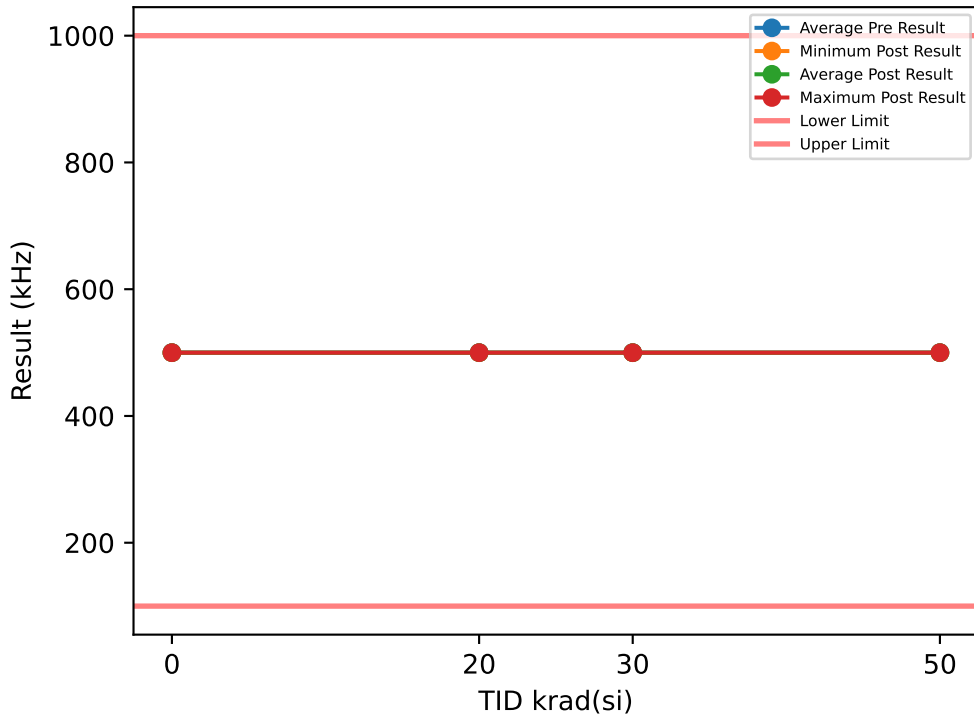
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	496.06	498.98	500.84	2.5617	495.86	498.76	500.54	2.535	-0.3003	-0.21957	-0.1581	0.073032
20	489.18	501	507.27	5.4708	489.11	501.14	507.01	5.3922	-0.5858	0.14003	1.0837	0.58285
30	488.69	499.97	506.16	5.0899	487.77	499.6	506.37	5.2076	-1.3252	-0.37465	1.1457	0.73635
50	494.35	499.87	503.62	3.0592	494.81	499.49	505.12	3.4225	-4.111	-0.38563	1.5018	1.7115

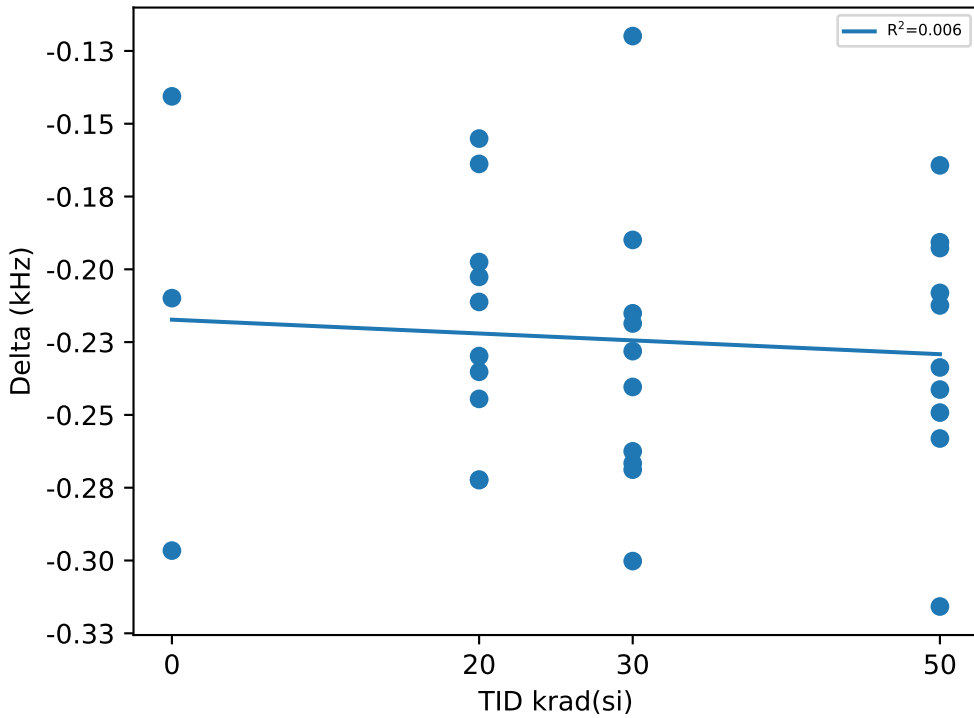
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	500.08	499.83	-0.2445
22	20	HDR BIAS	500.03	499.83	-0.2026
23	20	HDR BIAS	500.02	499.81	-0.2112
24	20	HDR BIAS	500.08	499.88	-0.1975
25	20	HDR BIAS	500	499.84	-0.1551
26	20	HDR UNBIAS	500.07	499.79	-0.2724
27	20	HDR UNBIAS	500.07	499.84	-0.2298
28	20	HDR UNBIAS	500.06	499.82	-0.2352
29	20	HDR UNBIAS	500.06	499.79	-0.2722
30	20	HDR UNBIAS	500.04	499.88	-0.1638
31	30	HDR BIAS	500.05	499.81	-0.2404
32	30	HDR BIAS	500.05	499.78	-0.2688
33	30	HDR BIAS	500.04	499.83	-0.2151
34	30	HDR BIAS	500.02	499.83	-0.1899
35	30	HDR BIAS	500.06	499.83	-0.2281
36	30	HDR UNBIAS	500.09	499.82	-0.2666
37	30	HDR UNBIAS	499.97	499.85	-0.1199
38	30	HDR UNBIAS	500.08	499.78	-0.3002
39	30	HDR UNBIAS	500.04	499.83	-0.2186
40	30	HDR UNBIAS	500.08	499.82	-0.2625
41	50	HDR BIAS	500.07	499.82	-0.2581
42	50	HDR BIAS	500.07	499.82	-0.2492
43	50	HDR BIAS	500.01	499.81	-0.2081
44	50	HDR BIAS	500	499.81	-0.1907
45	50	HDR BIAS	500.08	499.84	-0.2413
46	50	HDR UNBIAS	500.04	499.81	-0.2337
47	50	HDR UNBIAS	500.12	499.8	-0.3158
48	50	HDR UNBIAS	500.02	499.83	-0.1927
49	50	HDR UNBIAS	500.01	499.85	-0.1643
50	50	HDR UNBIAS	500.04	499.83	-0.2124
71	0	CORRELATION	500.06	499.86	-0.2099
72	0	CORRELATION	500.09	499.8	-0.2966
73	0	CORRELATION	500.01	499.87	-0.1406

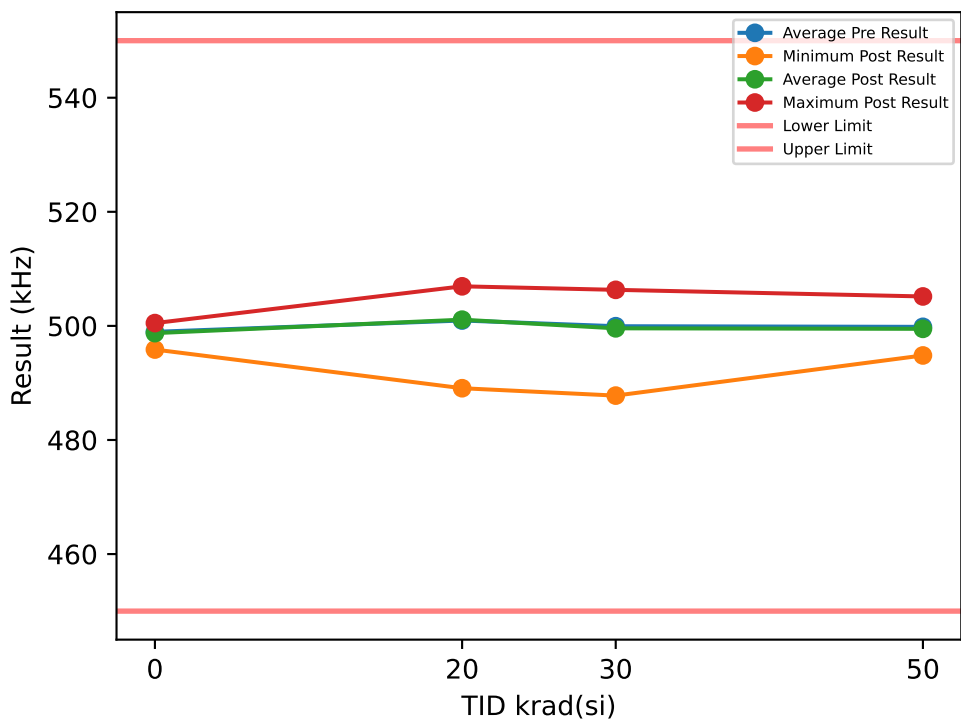
TID vs Post - Pre Exposure Delta



Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.01	500.06	500.09	0.04167	499.8	499.84	499.87	0.038769	-0.2966	-0.2157	-0.1406	0.078162
20	500	500.05	500.08	0.027644	499.79	499.83	499.88	0.030207	-0.2724	-0.21843	-0.1551	0.040318
30	499.97	500.05	500.09	0.034188	499.78	499.82	499.85	0.023124	-0.3002	-0.23101	-0.1199	0.050567
50	500	500.05	500.12	0.037224	499.8	499.82	499.85	0.015492	-0.3158	-0.22663	-0.1643	0.042933

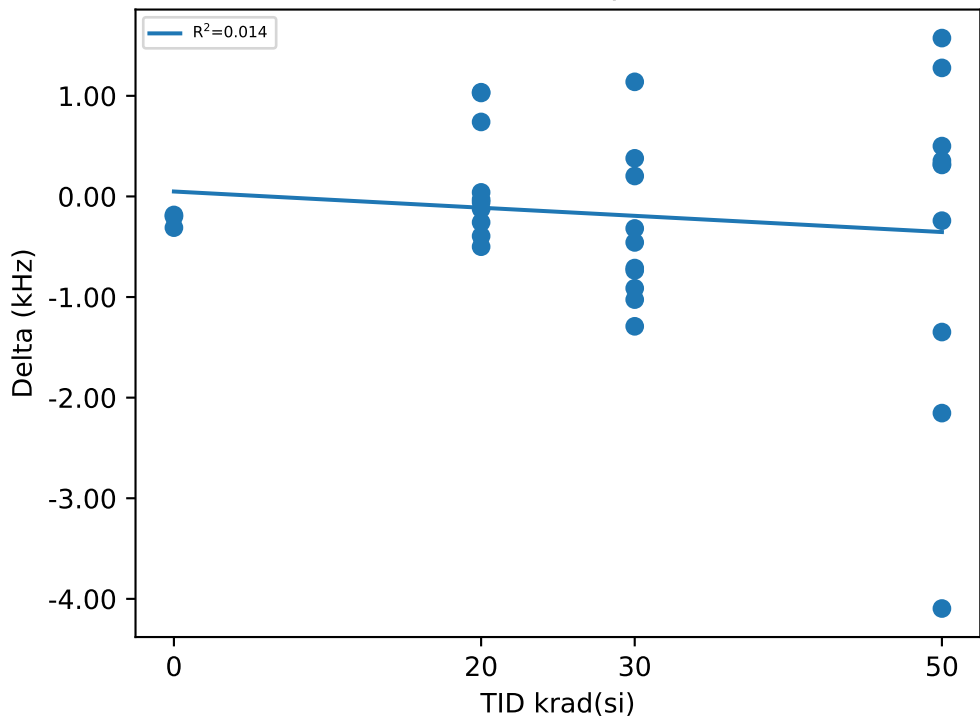
TID vs Result Stats



Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	507.2	506.94	-0.2576
22	20	HDR BIAS	496.81	496.42	-0.3941
23	20	HDR BIAS	501.96	502.99	1.0359
24	20	HDR BIAS	489.13	489.07	-0.0576
25	20	HDR BIAS	504.82	504.69	-0.125
26	20	HDR UNBIAS	503.12	503.16	0.0402
27	20	HDR UNBIAS	495.92	496.95	1.0286
28	20	HDR UNBIAS	501.15	501.89	0.7404
29	20	HDR UNBIAS	504.3	504.27	-0.03
30	20	HDR UNBIAS	505.03	504.53	-0.4996
31	30	HDR BIAS	497.38	498.52	1.1391
32	30	HDR BIAS	506.12	506.32	0.2031
33	30	HDR BIAS	497.7	496.97	-0.7351
34	30	HDR BIAS	488.69	487.78	-0.9129
35	30	HDR BIAS	502.97	501.68	-1.291
36	30	HDR UNBIAS	503.03	502.71	-0.3182
37	30	HDR UNBIAS	500.58	500.96	0.3788
38	30	HDR UNBIAS	498.26	497.8	-0.457
39	30	HDR UNBIAS	505.65	504.93	-0.712
40	30	HDR UNBIAS	499.08	498.06	-1.0255
41	50	HDR BIAS	499.26	497.91	-1.3479
42	50	HDR BIAS	502.51	500.36	-2.1536
43	50	HDR BIAS	494.32	494.82	0.5004
44	50	HDR BIAS	502.19	502.5	0.3131
45	50	HDR BIAS	495.1	495.42	0.3195
46	50	HDR UNBIAS	501.68	502.04	0.3546
47	50	HDR UNBIAS	500.57	500.33	-0.241
48	50	HDR UNBIAS	499.75	495.65	-4.096
49	50	HDR UNBIAS	499.38	500.66	1.2776
50	50	HDR UNBIAS	503.59	505.16	1.574
71	0	CORRELATION	496.05	495.85	-0.1991
72	0	CORRELATION	500.03	499.85	-0.1841
73	0	CORRELATION	500.8	500.49	-0.3103

TID vs Post - Pre Exposure Delta

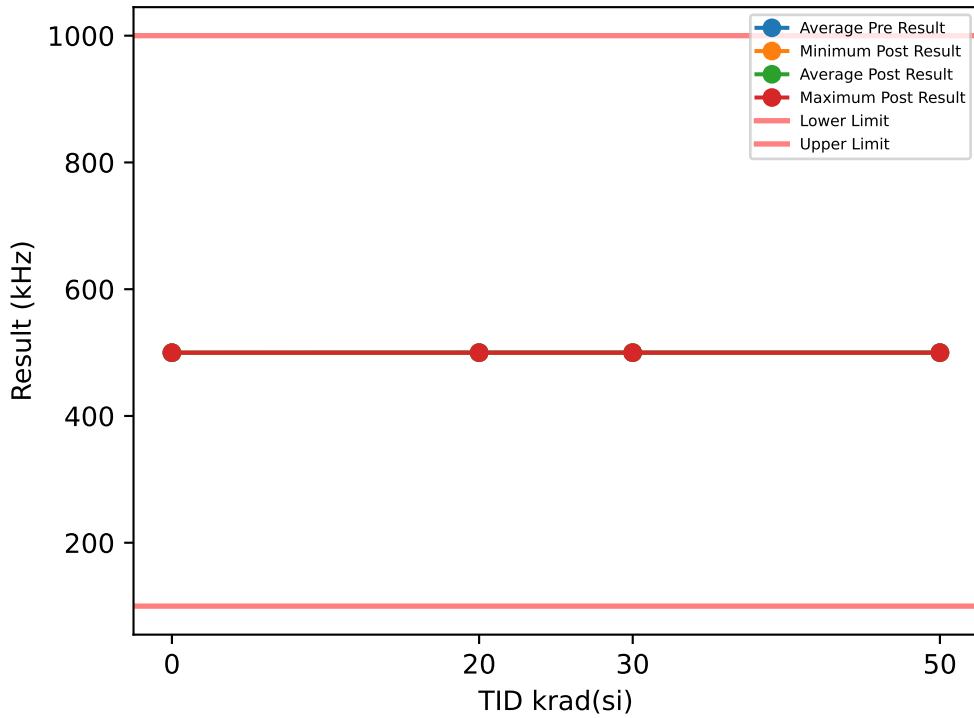


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	496.05	498.96	500.8	2.5485	495.85	498.73	500.49	2.5123	-0.3103	-0.23117	-0.1841	0.068941
20	489.13	500.94	507.2	5.4743	489.07	501.09	506.94	5.3857	-0.4996	0.14812	1.0359	0.57277
30	488.69	499.95	506.12	5.0711	487.78	499.57	506.32	5.1946	-1.291	-0.37307	1.1391	0.74533
50	494.32	499.84	503.59	3.0588	494.82	499.49	505.16	3.4357	-4.096	-0.34993	1.574	1.7241

# Device Test: 20.94 LEVEL|FREQ/SYNC/14/14/0/1000/5/500kHz//@FREQ\_SYNC\_EXT

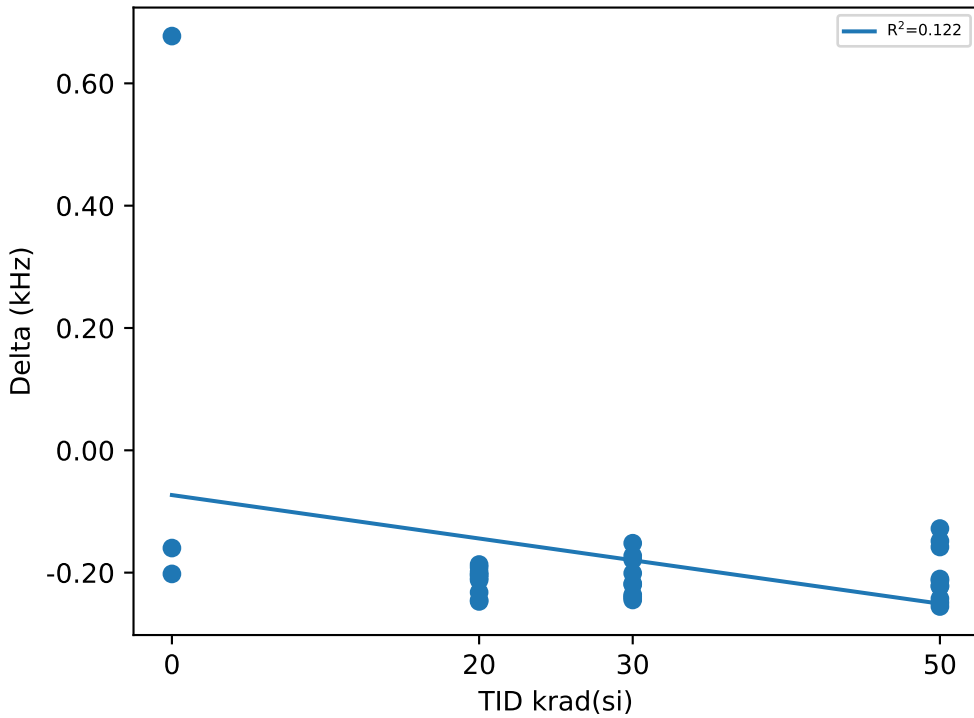
### TID vs Result Stats



### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	500.07	499.86	-0.2091
22	20	HDR BIAS	500.01	499.81	-0.1988
23	20	HDR BIAS	500.05	499.82	-0.2322
24	20	HDR BIAS	500.07	499.83	-0.2451
25	20	HDR BIAS	500.02	499.84	-0.1867
26	20	HDR UNBIAS	500.07	499.82	-0.2471
27	20	HDR UNBIAS	500.04	499.83	-0.2032
28	20	HDR UNBIAS	500.01	499.82	-0.1912
29	20	HDR UNBIAS	500.04	499.83	-0.2039
30	20	HDR UNBIAS	500.08	499.87	-0.2122
31	30	HDR BIAS	500.02	499.82	-0.201
32	30	HDR BIAS	500.05	499.83	-0.2195
33	30	HDR BIAS	500.07	499.83	-0.2447
34	30	HDR BIAS	500.06	499.82	-0.2362
35	30	HDR BIAS	500.01	499.83	-0.1789
36	30	HDR UNBIAS	500.04	499.87	-0.1725
37	30	HDR UNBIAS	500.02	499.86	-0.1519
38	30	HDR UNBIAS	500.03	499.82	-0.2179
39	30	HDR UNBIAS	500.07	499.83	-0.2415
40	30	HDR UNBIAS	500.06	499.82	-0.2388
41	50	HDR BIAS	500.07	499.82	-0.2554
42	50	HDR BIAS	500.04	499.83	-0.213
43	50	HDR BIAS	499.98	499.83	-0.1483
44	50	HDR BIAS	500.07	499.82	-0.2492
45	50	HDR BIAS	500.02	499.86	-0.1581
46	50	HDR UNBIAS	500.06	499.84	-0.2225
47	50	HDR UNBIAS	500.09	499.84	-0.2426
48	50	HDR UNBIAS	500	499.87	-0.1279
49	50	HDR UNBIAS	500.03	499.81	-0.2215
50	50	HDR UNBIAS	500.03	499.82	-0.2104
71	0	CORRELATION	500.06	499.86	-0.2021
72	0	CORRELATION	499.1	499.78	0.6773
73	0	CORRELATION	500.02	499.86	-0.1598

### TID vs Post - Pre Exposure Delta



### Test Statistics (kHz)

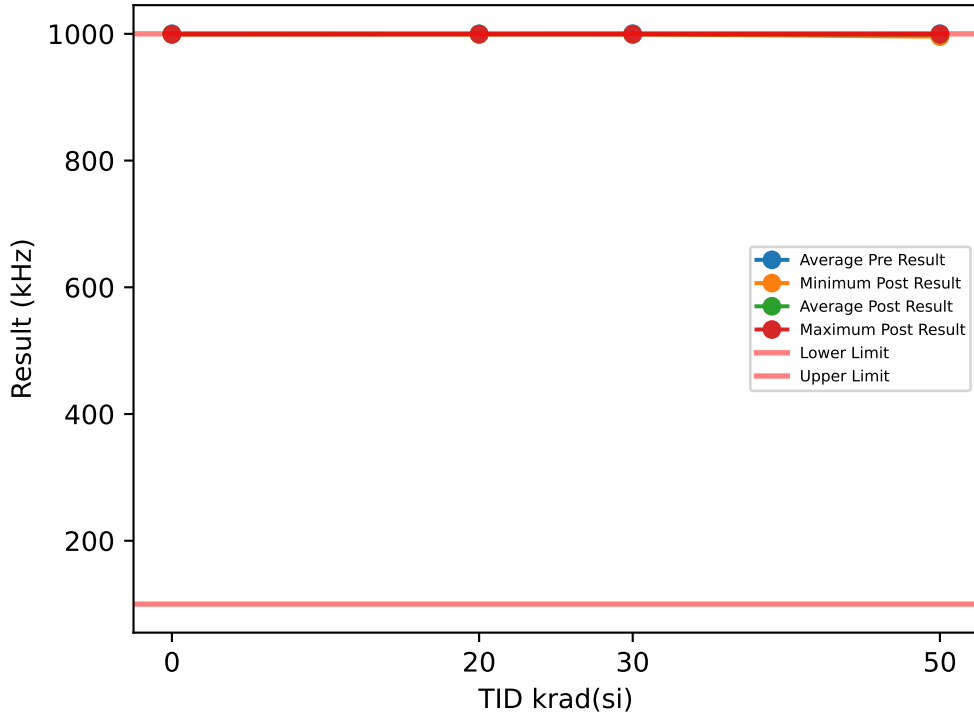
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.1	499.73	500.06	0.54098	499.78	499.83	499.86	0.045158	-0.2021	0.10513	0.6773	0.49596
20	500.01	500.05	500.08	0.025518	499.81	499.83	499.87	0.018235	-0.2471	-0.21295	-0.1867	0.021409
30	500.01	500.04	500.07	0.02154	499.82	499.83	499.87	0.019013	-0.2447	-0.21029	-0.1519	0.03282
50	499.98	500.04	500.09	0.034067	499.81	499.84	499.87	0.018996	-0.2554	-0.20489	-0.1279	0.044644





Device Test: 20.96 LEVEL|FREQ/SYNC/4.5/4.5/0/1000/4.5/1MHz//@FREQ\_SYNC\_EXT

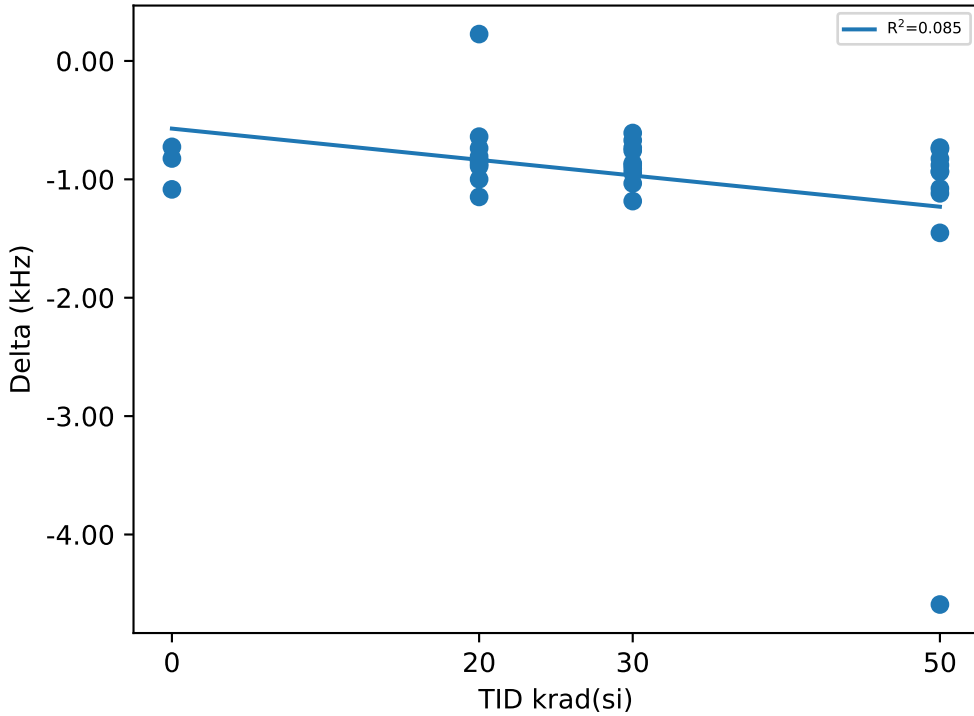
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1000.4	999.54	-0.8422
22	20	HDR BIAS	1000.2	999.41	-0.8067
23	20	HDR BIAS	1000.3	999.12	-1.1486
24	20	HDR BIAS	1000.2	999.47	-0.7368
25	20	HDR BIAS	1000.1	999.45	-0.6393
26	20	HDR UNBIAS	1000.3	999.33	-0.9993
27	20	HDR UNBIAS	1000.2	999.31	-0.871
28	20	HDR UNBIAS	1000.1	999.23	-0.84
29	20	HDR UNBIAS	999.13	999.36	0.227
30	20	HDR UNBIAS	1000.2	999.33	-0.8897
31	30	HDR BIAS	1000.1	999.27	-0.8794
32	30	HDR BIAS	1000.3	999.4	-0.9091
33	30	HDR BIAS	1000.4	999.56	-0.8647
34	30	HDR BIAS	1000	999.25	-0.7576
35	30	HDR BIAS	1000.3	999.1	-1.1838
36	30	HDR UNBIAS	1000.2	999.53	-0.6703
37	30	HDR UNBIAS	1000	999.42	-0.6086
38	30	HDR UNBIAS	1000.3	999.35	-0.9455
39	30	HDR UNBIAS	1000.4	999.36	-1.0342
40	30	HDR UNBIAS	1000.2	999.5	-0.7328
41	50	HDR BIAS	1000.3	999.39	-0.9367
42	50	HDR BIAS	1000.4	999.34	-1.0775
43	50	HDR BIAS	1000.2	999.46	-0.7319
44	50	HDR BIAS	1000.2	998.73	-1.4521
45	50	HDR BIAS	1000.4	999.54	-0.8805
46	50	HDR UNBIAS	1000.2	999.42	-0.8258
47	50	HDR UNBIAS	1000.3	999.34	-0.9326
48	50	HDR UNBIAS	1000.3	999.51	-0.7433
49	50	HDR UNBIAS	1000.1	995.51	-4.5914
50	50	HDR UNBIAS	1000.3	999.14	-1.1181
71	0	CORRELATION	1000.4	999.28	-1.0848
72	0	CORRELATION	1000.1	999.37	-0.7257
73	0	CORRELATION	1000.2	999.37	-0.8239

TID vs Post - Pre Exposure Delta

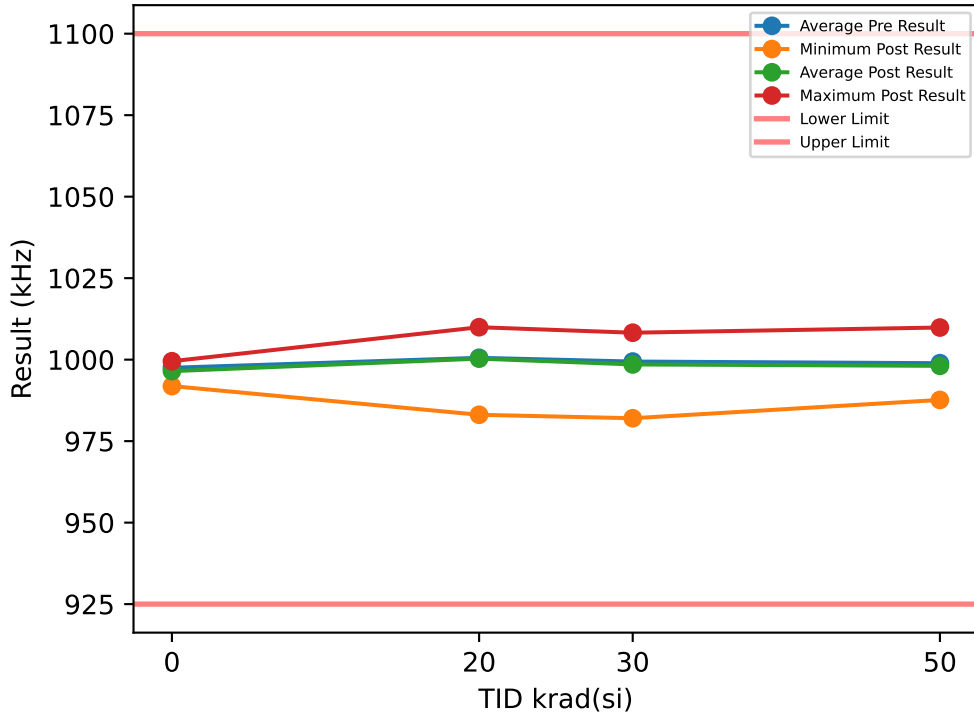


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000.1	1000.2	1000.4	0.13805	999.28	999.34	999.37	0.050355	-1.0848	-0.87813	-0.7257	0.18559
20	999.13	1000.1	1000.4	0.35669	999.12	999.35	999.54	0.12017	-1.1486	-0.75466	0.227	0.37145
30	1000	1000.2	1000.4	0.13848	999.1	999.37	999.56	0.13957	-1.1838	-0.8586	-0.6086	0.17357
50	1000.1	1000.3	1000.4	0.099696	995.51	998.94	999.54	1.2273	-4.5914	-1.329	-0.7319	1.1658

# Device Test: 20.97 LEVEL|FREQ/RT/5/5/0/1000/5/1MHz//@FSW\_EXT\_RT\_D

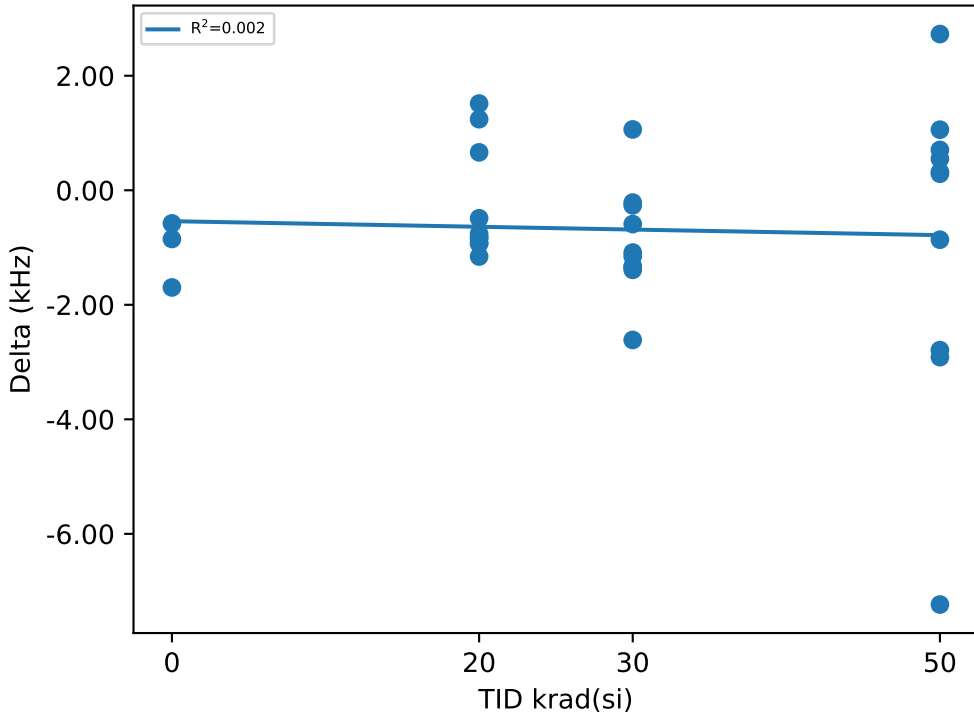
## TID vs Result Stats



## Test Results (Lower Limit = 925.0, Upper Limit = 1100.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1010.8	1010	-0.8339
22	20	HDR BIAS	993.44	992.61	-0.8228
23	20	HDR BIAS	1001	1002.2	1.2408
24	20	HDR BIAS	983.57	983.09	-0.4866
25	20	HDR BIAS	1008.8	1007.6	-1.1571
26	20	HDR UNBIAS	1003.3	1002.3	-0.93
27	20	HDR UNBIAS	991.07	992.58	1.5147
28	20	HDR UNBIAS	1003	1003.7	0.6619
29	20	HDR UNBIAS	1005	1004.1	-0.9209
30	20	HDR UNBIAS	1005.7	1004.9	-0.7587
31	30	HDR BIAS	993.94	995	1.0624
32	30	HDR BIAS	1008.3	1008.1	-0.2634
33	30	HDR BIAS	997.69	996.53	-1.155
34	30	HDR BIAS	983.41	982.02	-1.3897
35	30	HDR BIAS	1003.1	1000.5	-2.614
36	30	HDR UNBIAS	1004.8	1004.3	-0.5908
37	30	HDR UNBIAS	998.97	998.76	-0.2152
38	30	HDR UNBIAS	997.49	996.15	-1.3382
39	30	HDR UNBIAS	1009.6	1008.3	-1.3279
40	30	HDR UNBIAS	996.79	995.71	-1.087
41	50	HDR BIAS	998.57	995.78	-2.7913
42	50	HDR BIAS	1000.8	997.88	-2.9144
43	50	HDR BIAS	989.81	990.51	0.7042
44	50	HDR BIAS	1002.5	1002.8	0.2887
45	50	HDR BIAS	992.96	993.28	0.3195
46	50	HDR UNBIAS	1000.3	1000.9	0.5501
47	50	HDR UNBIAS	1001.3	1000.4	-0.8633
48	50	HDR UNBIAS	994.88	987.64	-7.234
49	50	HDR UNBIAS	1000.9	1001.9	1.0581
50	50	HDR UNBIAS	1007.1	1009.9	2.7276
71	0	CORRELATION	992.74	991.89	-0.8506
72	0	CORRELATION	999.7	998.01	-1.6971
73	0	CORRELATION	1000.1	999.52	-0.5782

## TID vs Post - Pre Exposure Delta

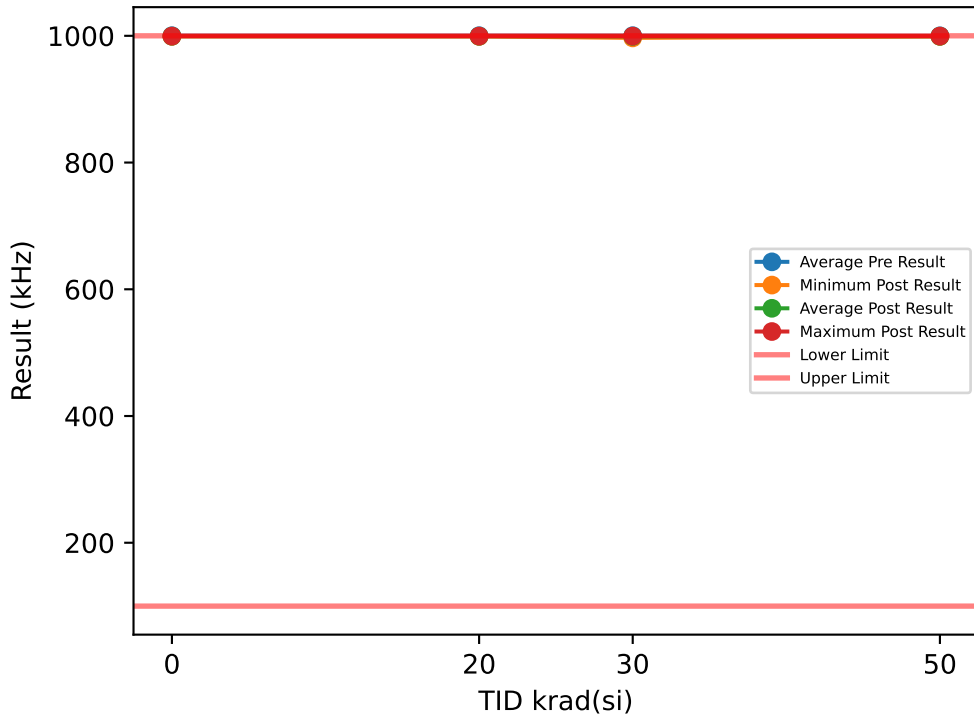


## Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	992.74	997.51	1000.1	4.1381	991.89	996.47	999.52	4.039	-1.6971	-1.042	-0.5782	0.58348
20	983.57	1000.6	1010.8	8.5693	983.09	1000.3	1010	8.277	-1.1571	-0.24946	1.5147	0.99377
30	983.41	999.42	1009.6	7.6455	982.02	998.53	1008.3	7.638	-2.614	-0.89188	1.0624	0.97027
50	989.81	998.91	1007.1	5.0547	987.64	998.1	1009.9	6.5269	-7.234	-0.81548	2.7276	2.8334

# Device Test: 20.98 LEVEL|FREQ/SYNC/5/5/0/1000/5/1MHz//@FREQ\_SYNC\_EXT

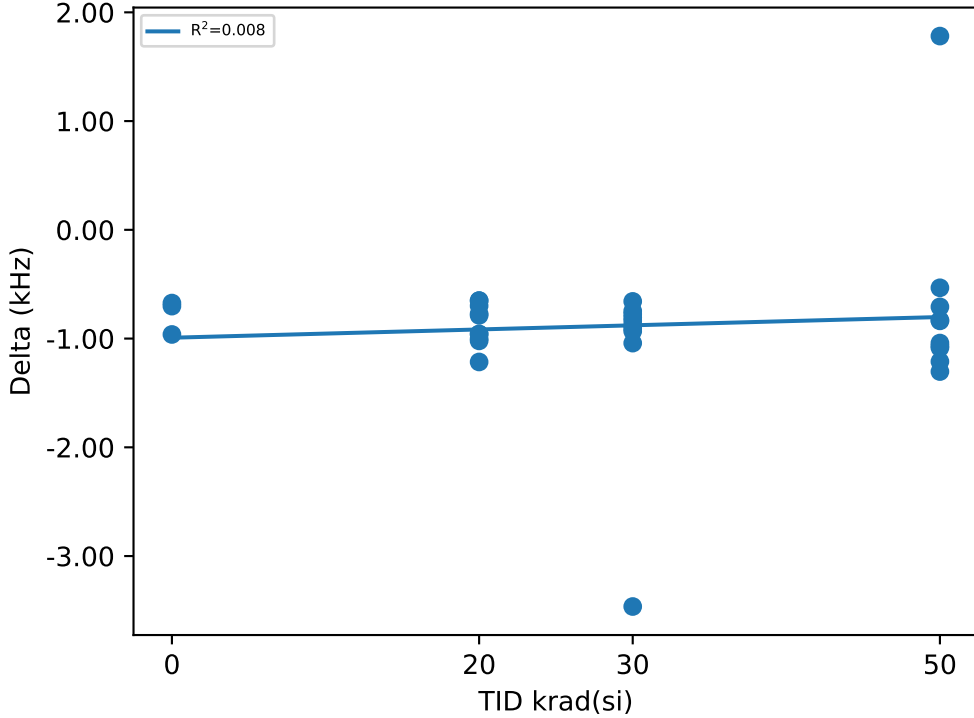
### TID vs Result Stats



### Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1000.4	999.36	-1.0212
22	20	HDR BIAS	1000.1	999.3	-0.7722
23	20	HDR BIAS	1000.4	999.17	-1.2151
24	20	HDR BIAS	1000.2	999.5	-0.6987
25	20	HDR BIAS	1000	999.4	-0.6515
26	20	HDR UNBIAS	1000.1	999.14	-0.9581
27	20	HDR UNBIAS	1000.2	999.52	-0.6507
28	20	HDR UNBIAS	1000.2	999.38	-0.7865
29	20	HDR UNBIAS	1000.1	999.1	-0.9586
30	20	HDR UNBIAS	1000.3	999.29	-1.0018
31	30	HDR BIAS	1000.3	999.21	-1.0418
32	30	HDR BIAS	1000.2	996.69	-3.464
33	30	HDR BIAS	1000.4	999.53	-0.8797
34	30	HDR BIAS	1000	999.29	-0.7463
35	30	HDR BIAS	1000.2	999.39	-0.8377
36	30	HDR UNBIAS	1000.1	999.36	-0.7743
37	30	HDR UNBIAS	1000	999.39	-0.6581
38	30	HDR UNBIAS	1000.3	999.35	-0.9324
39	30	HDR UNBIAS	1000.4	999.49	-0.9095
40	30	HDR UNBIAS	1000.2	999.38	-0.8066
41	50	HDR BIAS	1000.2	999.11	-1.068
42	50	HDR BIAS	1000.3	999.51	-0.8371
43	50	HDR BIAS	999.97	999.26	-0.7083
44	50	HDR BIAS	1000.4	999.2	-1.2111
45	50	HDR BIAS	1000.1	999.56	-0.533
46	50	HDR UNBIAS	1000.3	999.24	-1.0412
47	50	HDR UNBIAS	1000.3	999.21	-1.0842
48	50	HDR UNBIAS	1000.2	999.34	-0.832
49	50	HDR UNBIAS	997.58	999.37	1.7817
50	50	HDR UNBIAS	1000.4	999.1	-1.3033
71	0	CORRELATION	1000.1	999.44	-0.7016
72	0	CORRELATION	1000.2	999.19	-0.9622
73	0	CORRELATION	1000.2	999.53	-0.6734

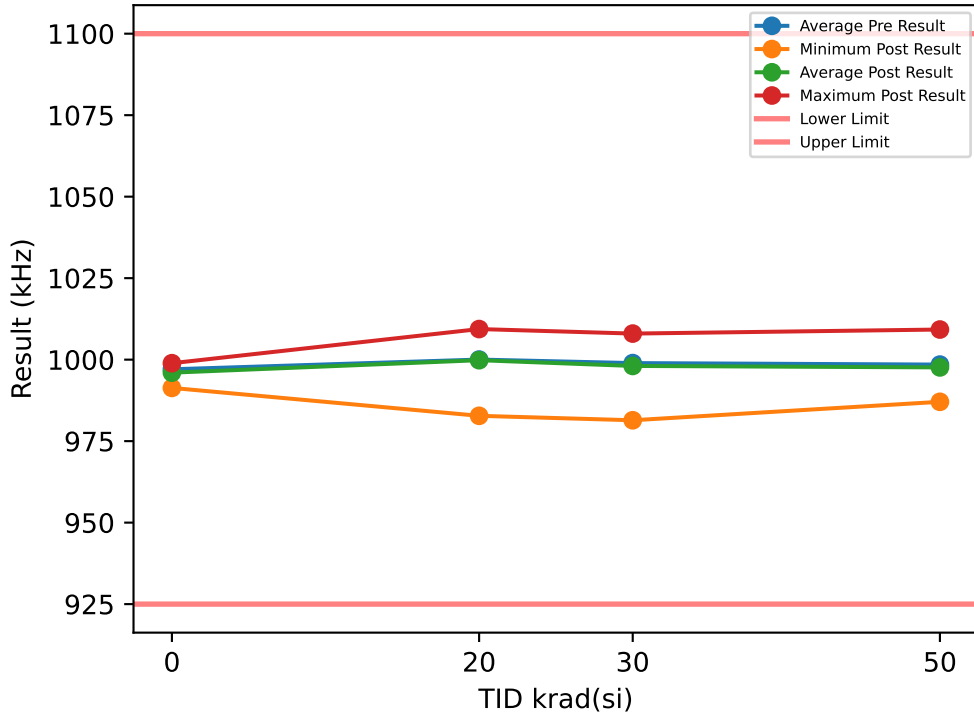
### TID vs Post - Pre Exposure Delta



### Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000.1	1000.2	1000.2	0.035642	999.19	999.39	999.53	0.17691	-0.9622	-0.77907	-0.6734	0.15922
20	1000	1000.2	1000.4	0.12857	999.1	999.32	999.52	0.14469	-1.2151	-0.87144	-0.6507	0.18757
30	1000	1000.2	1000.4	0.12805	996.69	999.11	999.53	0.85495	-3.464	-1.105	-0.6581	0.83572
50	997.58	999.97	1000.4	0.85116	999.1	999.29	999.56	0.15527	-1.3033	-0.68365	1.7817	0.89722

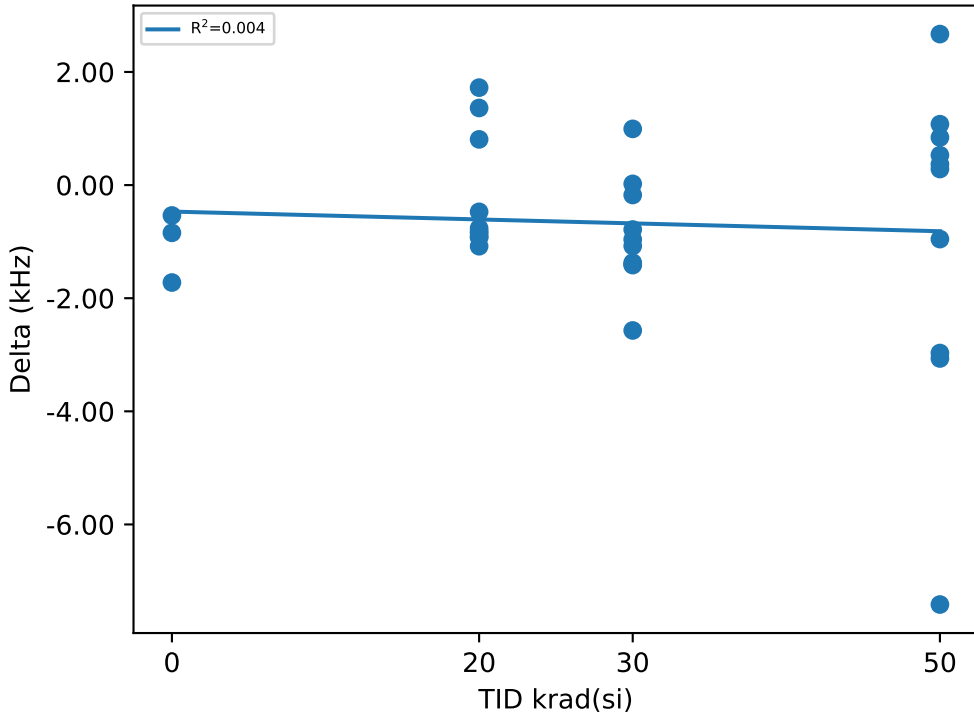
TID vs Result Stats



Test Results (Lower Limit = 925.0, Upper Limit = 1100.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1010.2	1009.4	-0.8215
22	20	HDR BIAS	993.06	992.14	-0.9235
23	20	HDR BIAS	1000.3	1001.6	1.3637
24	20	HDR BIAS	983.24	982.77	-0.473
25	20	HDR BIAS	1008.1	1007	-1.0809
26	20	HDR UNBIAS	1002.6	1001.7	-0.8513
27	20	HDR UNBIAS	990.48	992.2	1.7231
28	20	HDR UNBIAS	1002.3	1003.1	0.8083
29	20	HDR UNBIAS	1004.7	1003.9	-0.7623
30	20	HDR UNBIAS	1005.3	1004.4	-0.9124
31	30	HDR BIAS	993.38	994.37	0.9939
32	30	HDR BIAS	1008	1007.8	-0.1752
33	30	HDR BIAS	997.22	996.14	-1.0758
34	30	HDR BIAS	982.82	981.4	-1.4145
35	30	HDR BIAS	1002.7	1000.2	-2.5703
36	30	HDR UNBIAS	1004.3	1003.5	-0.7854
37	30	HDR UNBIAS	998.17	998.19	0.0214
38	30	HDR UNBIAS	997.09	995.72	-1.3714
39	30	HDR UNBIAS	1009.4	1008	-1.4011
40	30	HDR UNBIAS	996.31	995.35	-0.9608
41	50	HDR BIAS	998.32	995.35	-2.9695
42	50	HDR BIAS	1000.4	997.32	-3.0654
43	50	HDR BIAS	989.24	990.08	0.8429
44	50	HDR BIAS	1002	1002.3	0.284
45	50	HDR BIAS	992.39	992.76	0.3688
46	50	HDR UNBIAS	1000.2	1000.7	0.5283
47	50	HDR UNBIAS	1001	1000.1	-0.9547
48	50	HDR UNBIAS	994.48	987.06	-7.4157
49	50	HDR UNBIAS	1000.2	1001.3	1.0763
50	50	HDR UNBIAS	1006.6	1009.2	2.6699
71	0	CORRELATION	992.17	991.33	-0.8441
72	0	CORRELATION	999.5	997.78	-1.7226
73	0	CORRELATION	999.45	998.91	-0.537

TID vs Post - Pre Exposure Delta

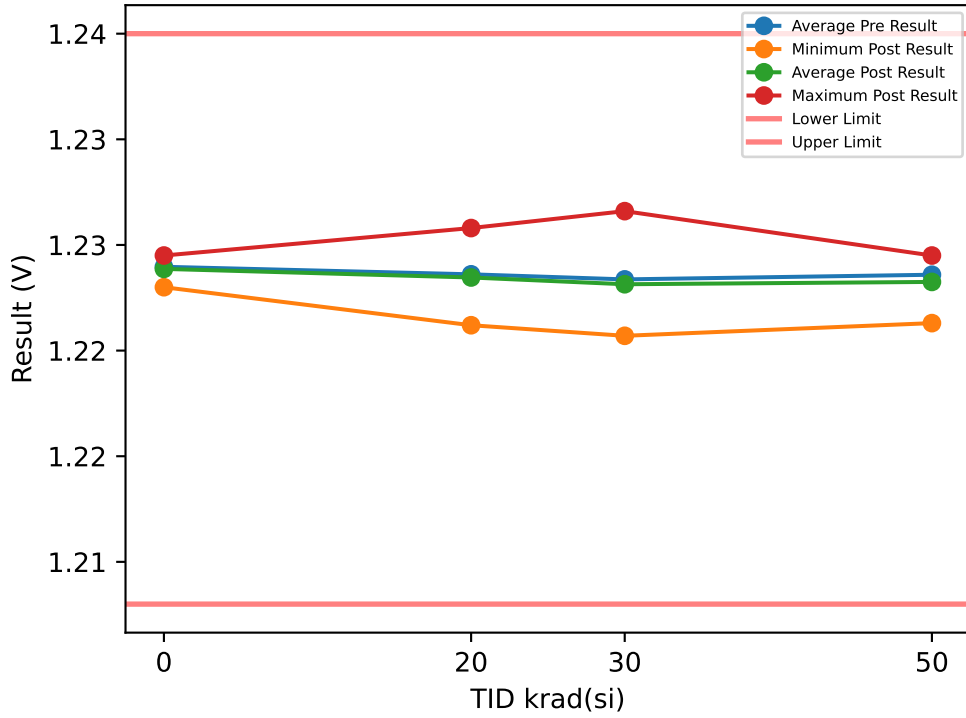


Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	992.17	997.04	999.5	4.2174	991.33	996.01	998.91	4.0913	-1.7226	-1.0346	-0.537	0.61532
20	983.24	1000	1010.2	8.5075	982.77	999.83	1009.4	8.2094	-1.0809	-0.19298	1.7231	1.0629
30	982.82	998.94	1009.4	7.7408	981.4	998.07	1008	7.7154	-2.5703	-0.87392	0.9939	0.97354
50	989.24	998.48	1006.6	5.0835	987.06	997.62	1009.2	6.5258	-7.4157	-0.86351	2.6699	2.9089

Device Test: 21.1 VOLTAGE|VREF/VREF/4.5/4.5/0/0/4.5/100kHz//@V\_REFCAP

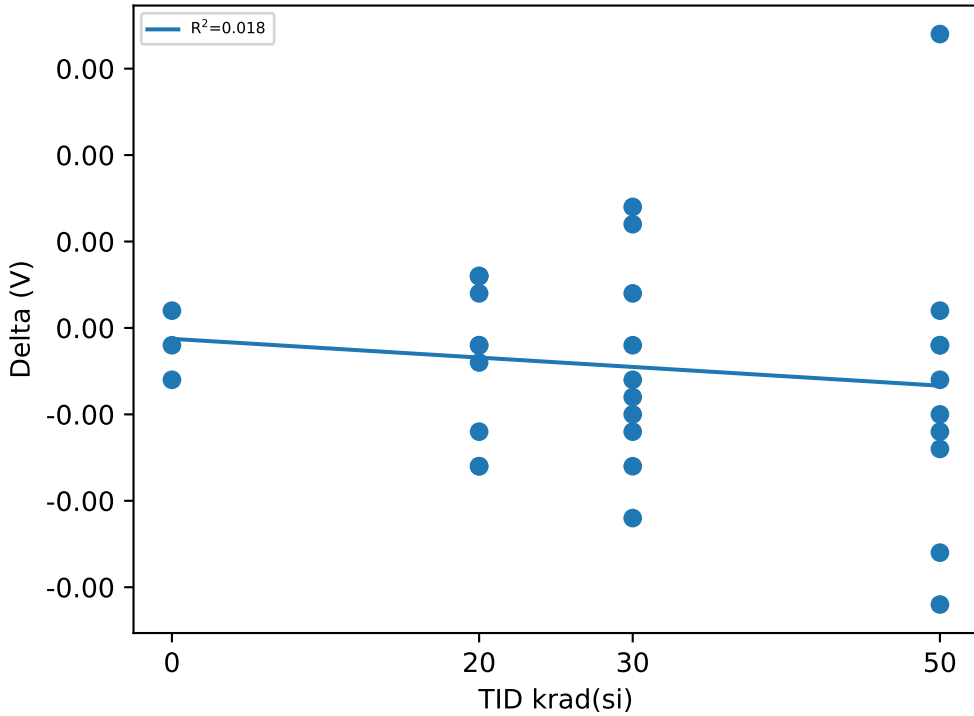
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2258	-0.0008
22	20	HDR BIAS	1.2226	1.2229	0.0003
23	20	HDR BIAS	1.2213	1.2212	-0.0001
24	20	HDR BIAS	1.2225	1.2224	-0.0001
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.2251	-0.0006
27	20	HDR UNBIAS	1.224	1.2242	0.0002
28	20	HDR UNBIAS	1.2218	1.2216	-0.0002
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2257	1.2249	-0.0008
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2227	1.2233	0.0006
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2208	-0.0011
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.224	-0.0004
41	50	HDR BIAS	1.2235	1.2219	-0.0016
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.224	1.2227	-0.0013
45	50	HDR BIAS	1.2214	1.2213	-0.0001
46	50	HDR UNBIAS	1.2228	1.2245	0.0017
47	50	HDR UNBIAS	1.224	1.2235	-0.0005
48	50	HDR UNBIAS	1.2248	1.2242	-0.0006
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2233	1.223	-0.0003
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.224	1.2241	0.0001

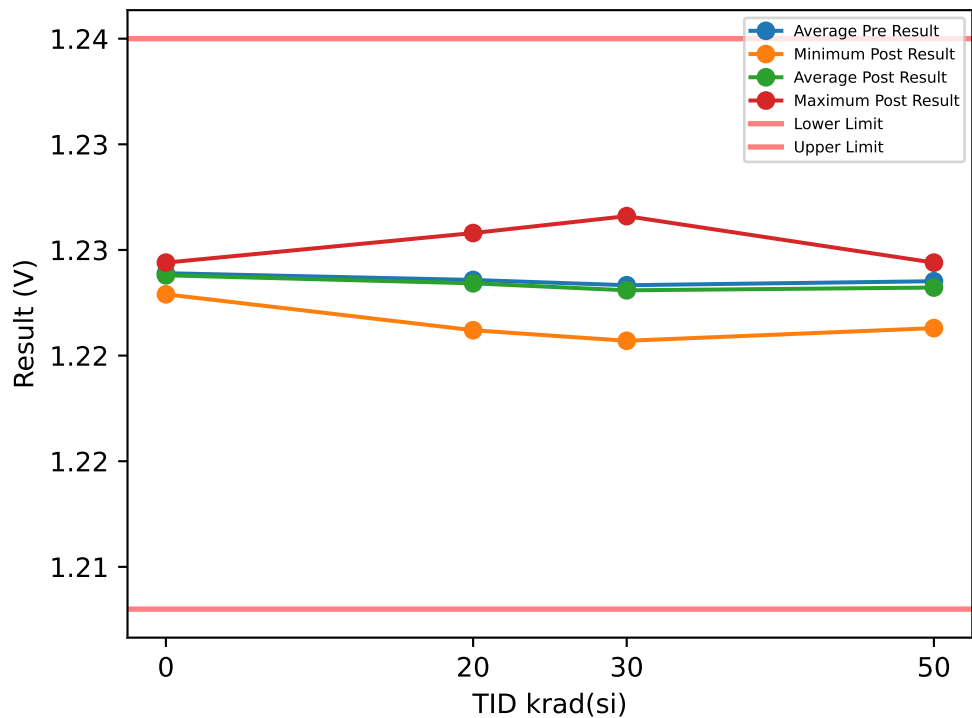
TID vs Post - Pre Exposure Delta



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	1.2233	1.224	1.2246	0.00065064	1.223	1.2239	1.2245	0.00077675	-0.0003	-0.0001	0.0001	0.0002
20	1.2213	1.2236	1.2266	0.0018592	1.2212	1.2235	1.2258	0.0016615	-0.0008	-0.00015	0.0003	0.00044535
30	1.2206	1.2234	1.2271	0.0020565	1.2207	1.2231	1.2266	0.0019438	-0.0011	-0.00023	0.0007	0.00058509
50	1.2214	1.2236	1.2251	0.0010682	1.2213	1.2232	1.2245	0.0010607	-0.0016	-0.00034	0.0017	0.00089468

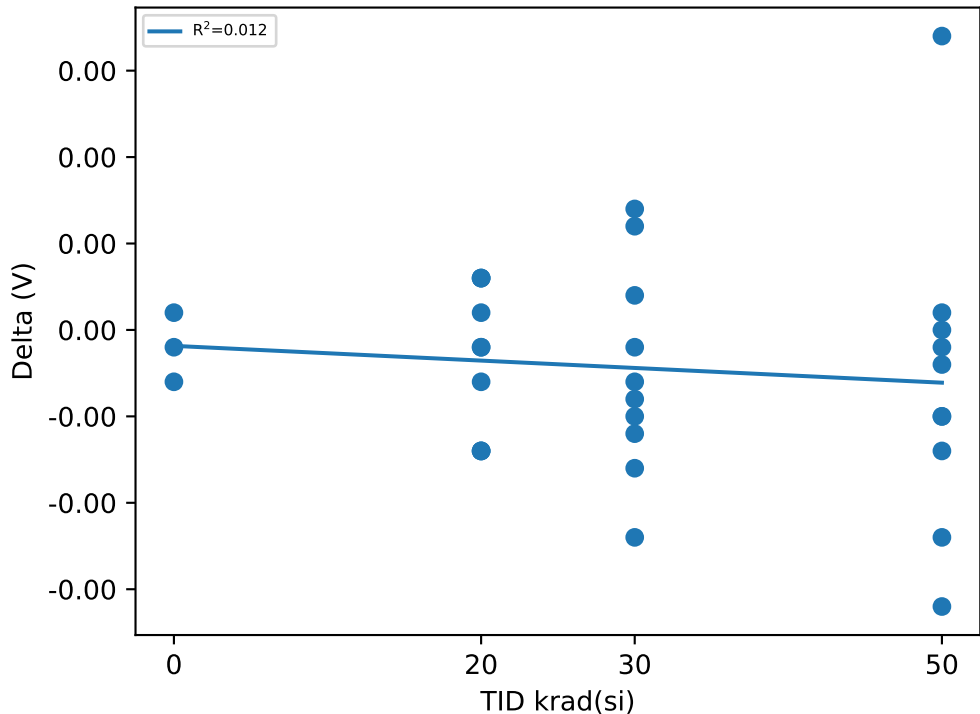
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2265	1.2258	-0.0007
22	20	HDR BIAS	1.2225	1.2228	0.0003
23	20	HDR BIAS	1.2213	1.2212	-0.0001
24	20	HDR BIAS	1.2225	1.2224	-0.0001
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.224	1.2241	0.0001
28	20	HDR UNBIAS	1.2218	1.2215	-0.0003
29	20	HDR UNBIAS	1.2245	1.2238	-0.0007
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2256	1.2248	-0.0008
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2226	1.2232	0.0006
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.2239	1.2241	0.0002
40	30	HDR UNBIAS	1.2243	1.2239	-0.0004
41	50	HDR BIAS	1.2235	1.2219	-0.0016
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.224	1.2238	-0.0002
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2213	1.2213	0
46	50	HDR UNBIAS	1.2227	1.2244	0.0017
47	50	HDR UNBIAS	1.2239	1.2234	-0.0005
48	50	HDR UNBIAS	1.2247	1.2242	-0.0005
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2231	1.223	-0.0001
71	0	CORRELATION	1.2232	1.2229	-0.0003
72	0	CORRELATION	1.2245	1.2244	-0.0001
73	0	CORRELATION	1.224	1.2241	0.0001

TID vs Post - Pre Exposure Delta

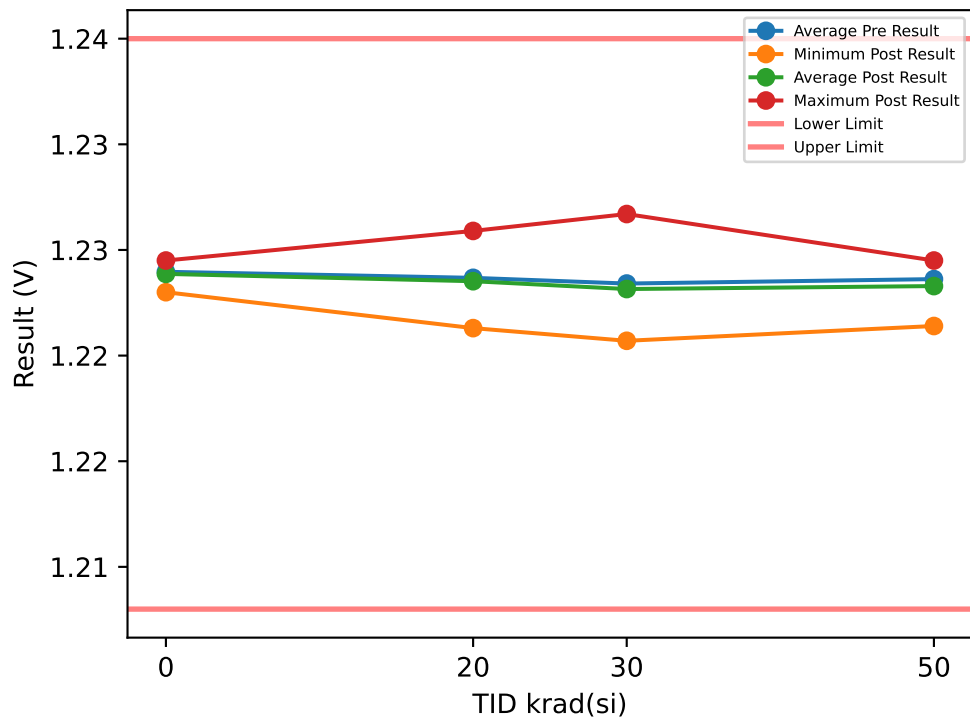


Test Statistics (V)

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	1.2232	1.2239	1.2245	0.00065574	1.2229	1.2238	1.2244	0.00079373	-0.0003	-0.0001	0.0001	0.0002
20	1.2213	1.2236	1.2265	0.001842	1.2212	1.2234	1.2258	0.0016625	-0.0007	-0.00016	0.0003	0.00042216
30	1.2206	1.2233	1.2271	0.0020391	1.2207	1.2231	1.2266	0.0019359	-0.0012	-0.00024	0.0007	0.00060222
50	1.2213	1.2235	1.2251	0.0010779	1.2213	1.2232	1.2244	0.0010475	-0.0016	-0.0003	0.0017	0.00088443



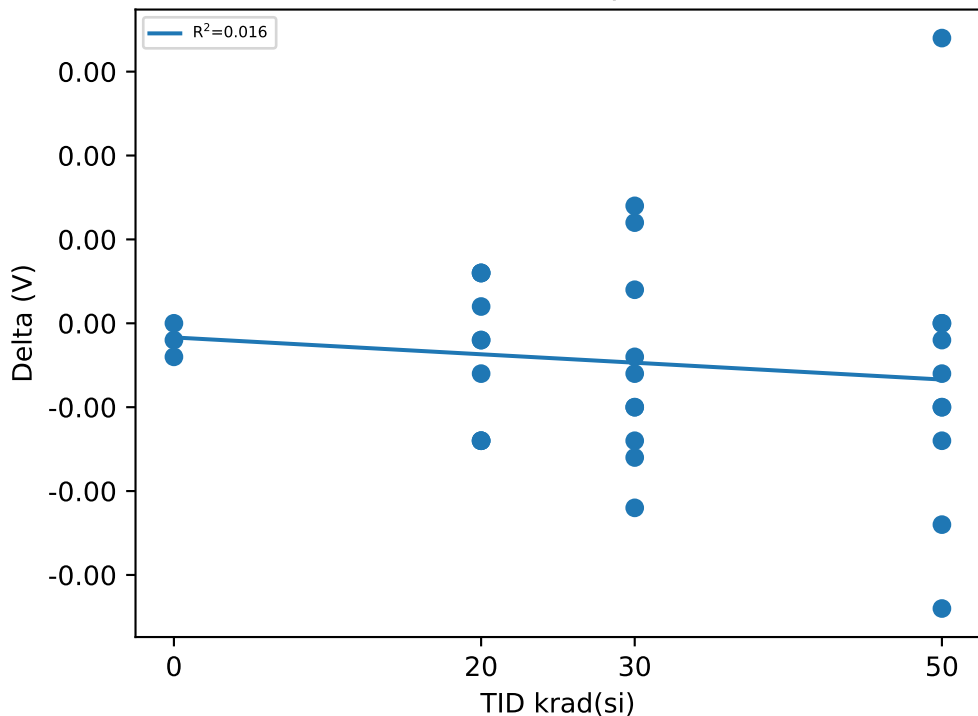
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2259	-0.0007
22	20	HDR BIAS	1.2226	1.2229	0.0003
23	20	HDR BIAS	1.2214	1.2213	-0.0001
24	20	HDR BIAS	1.2226	1.2225	-0.0001
25	20	HDR BIAS	1.2253	1.2256	0.0003
26	20	HDR UNBIAS	1.2258	1.2251	-0.0007
27	20	HDR UNBIAS	1.2241	1.2242	0.0001
28	20	HDR UNBIAS	1.2219	1.2216	-0.0003
29	20	HDR UNBIAS	1.2246	1.2239	-0.0007
30	20	HDR UNBIAS	1.2219	1.2222	0.0003
31	30	HDR BIAS	1.2257	1.2249	-0.0008
32	30	HDR BIAS	1.2242	1.2239	-0.0003
33	30	HDR BIAS	1.2214	1.2207	-0.0007
34	30	HDR BIAS	1.222	1.2218	-0.0002
35	30	HDR BIAS	1.2227	1.2233	0.0006
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2272	1.2267	-0.0005
38	30	HDR UNBIAS	1.2219	1.2208	-0.0011
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.2239	-0.0005
41	50	HDR BIAS	1.2236	1.2219	-0.0017
42	50	HDR BIAS	1.2231	1.2231	0
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.224	1.2228	-0.0012
45	50	HDR BIAS	1.2214	1.2214	0
46	50	HDR UNBIAS	1.2228	1.2245	0.0017
47	50	HDR UNBIAS	1.224	1.2235	-0.0005
48	50	HDR UNBIAS	1.2248	1.2243	-0.0005
49	50	HDR UNBIAS	1.2252	1.2245	-0.0007
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.2241	1.2241	0

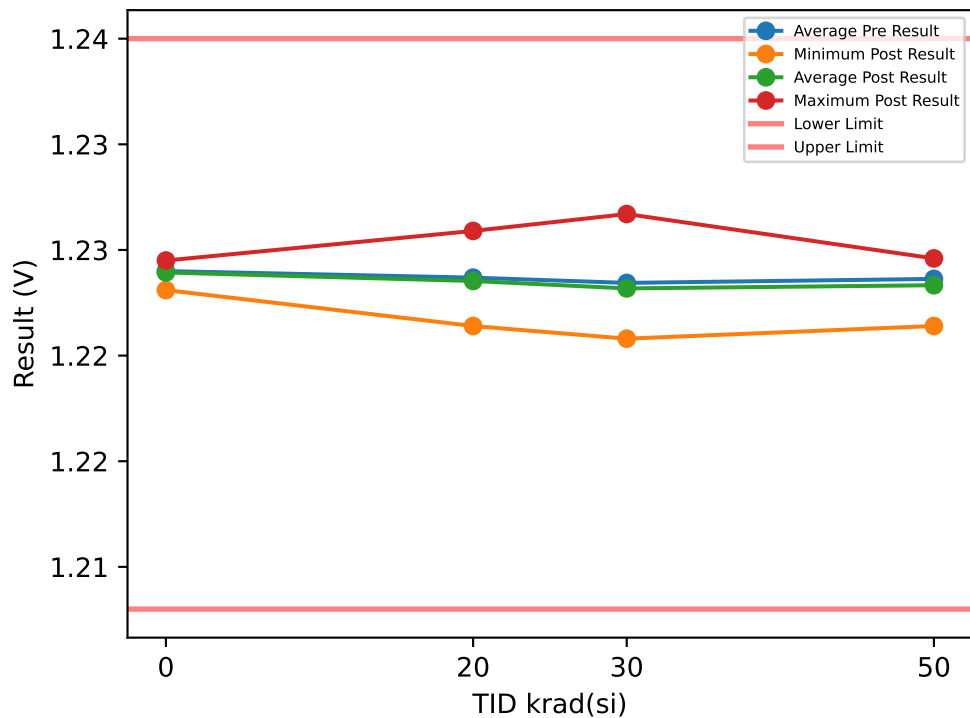
TID vs Post - Pre Exposure Delta



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	1.2232	1.224	1.2246	0.00070946	1.223	1.2239	1.2245	0.00077675	-0.0002	-0.0001	0	0.0001
20	1.2214	1.2237	1.2266	0.001842	1.2213	1.2235	1.2259	0.0016625	-0.0007	-0.00016	0.0003	0.00042216
30	1.2206	1.2234	1.2272	0.0020621	1.2207	1.2231	1.2267	0.0019631	-0.0011	-0.00026	0.0007	0.00059479
50	1.2214	1.2236	1.2252	0.0010779	1.2214	1.2233	1.2245	0.0010577	-0.0017	-0.00033	0.0017	0.00089573

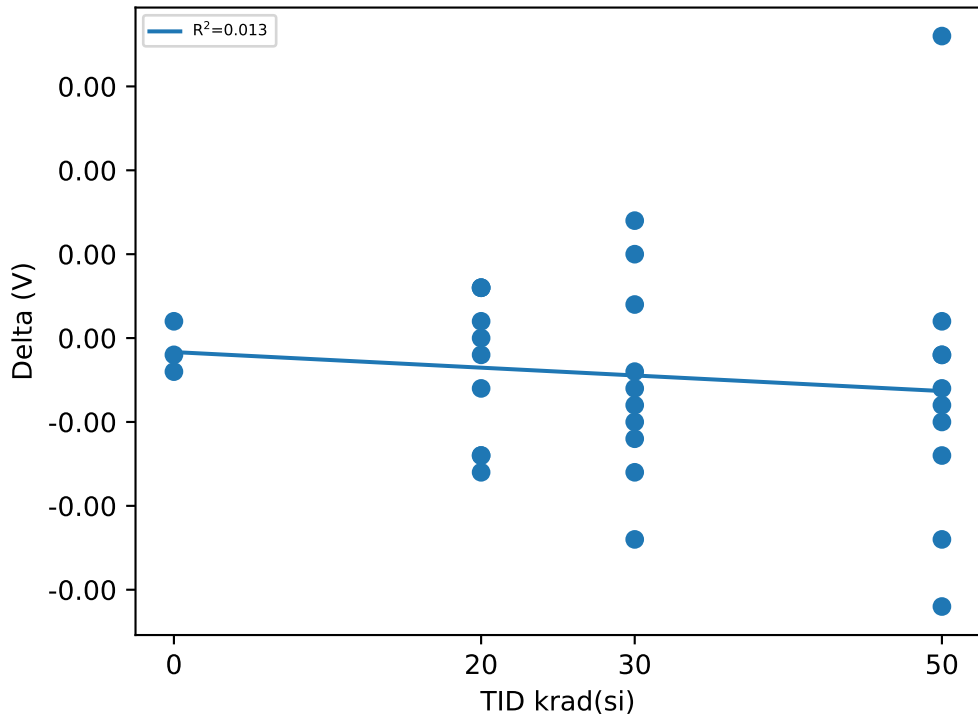
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2259	-0.0007
22	20	HDR BIAS	1.2226	1.2229	0.0003
23	20	HDR BIAS	1.2214	1.2214	0
24	20	HDR BIAS	1.2226	1.2225	-0.0001
25	20	HDR BIAS	1.2253	1.2256	0.0003
26	20	HDR UNBIAS	1.2258	1.2251	-0.0007
27	20	HDR UNBIAS	1.2241	1.2242	0.0001
28	20	HDR UNBIAS	1.2219	1.2216	-0.0003
29	20	HDR UNBIAS	1.2247	1.2239	-0.0008
30	20	HDR UNBIAS	1.2219	1.2222	0.0003
31	30	HDR BIAS	1.2257	1.2249	-0.0008
32	30	HDR BIAS	1.2242	1.2239	-0.0003
33	30	HDR BIAS	1.2214	1.2208	-0.0006
34	30	HDR BIAS	1.222	1.2218	-0.0002
35	30	HDR BIAS	1.2228	1.2233	0.0005
36	30	HDR UNBIAS	1.2207	1.2214	0.0007
37	30	HDR UNBIAS	1.2272	1.2267	-0.0005
38	30	HDR UNBIAS	1.222	1.2208	-0.0012
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.224	-0.0004
41	50	HDR BIAS	1.2236	1.222	-0.0016
42	50	HDR BIAS	1.2231	1.2232	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.224	1.2228	-0.0012
45	50	HDR BIAS	1.2215	1.2214	-0.0001
46	50	HDR UNBIAS	1.2228	1.2246	0.0018
47	50	HDR UNBIAS	1.224	1.2236	-0.0004
48	50	HDR UNBIAS	1.2248	1.2243	-0.0005
49	50	HDR UNBIAS	1.2252	1.2245	-0.0007
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2233	1.2231	-0.0002
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.2241	1.2242	0.0001

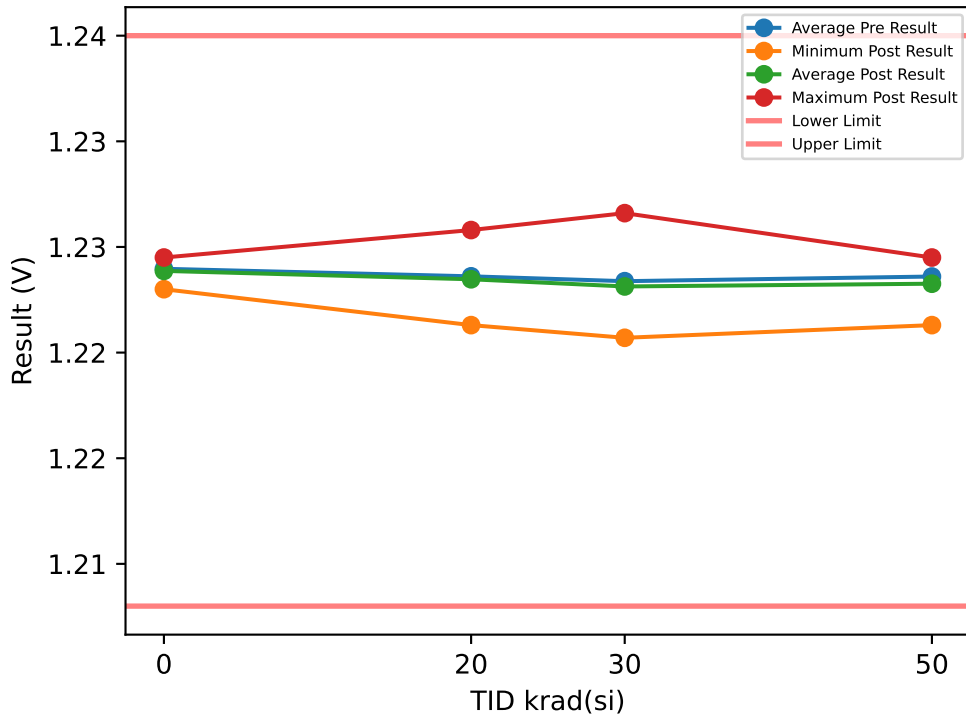
TID vs Post - Pre Exposure Delta



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	1.2233	1.224	1.2246	0.00065574	1.2231	1.2239	1.2245	0.00073711	-0.0002	-6.6667e-05	0.0001	0.00015275
20	1.2214	1.2237	1.2266	0.0018478	1.2214	1.2235	1.2259	0.0016479	-0.0008	-0.00016	0.0003	0.0004402
30	1.2207	1.2234	1.2272	0.0020354	1.2208	1.2232	1.2267	0.0019435	-0.0012	-0.00026	0.0007	0.00058538
50	1.2215	1.2236	1.2252	0.0010552	1.2214	1.2233	1.2246	0.0010573	-0.0016	-0.0003	0.0018	0.00090431

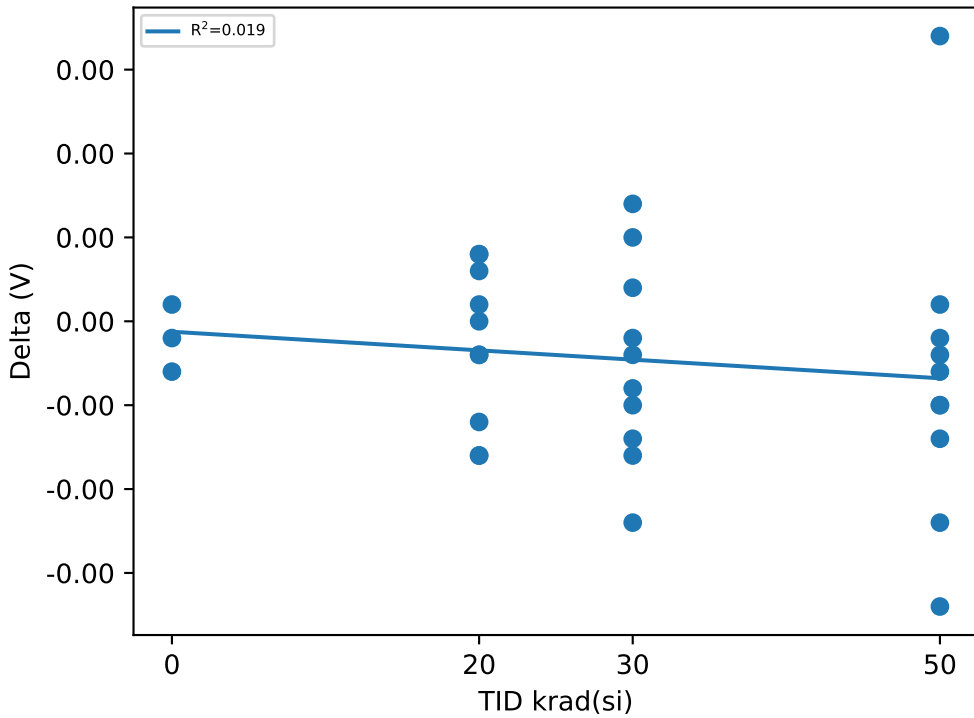
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2258	-0.0008
22	20	HDR BIAS	1.2225	1.2229	0.0004
23	20	HDR BIAS	1.2213	1.2213	0
24	20	HDR BIAS	1.2226	1.2224	-0.0002
25	20	HDR BIAS	1.2252	1.2256	0.0004
26	20	HDR UNBIAS	1.2257	1.2251	-0.0006
27	20	HDR UNBIAS	1.224	1.2241	0.0001
28	20	HDR UNBIAS	1.2218	1.2216	-0.0002
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2257	1.2249	-0.0008
32	30	HDR BIAS	1.2241	1.2239	-0.0002
33	30	HDR BIAS	1.2214	1.2207	-0.0007
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2227	1.2232	0.0005
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.224	-0.0004
41	50	HDR BIAS	1.2236	1.2219	-0.0017
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.224	1.2228	-0.0012
45	50	HDR BIAS	1.2215	1.2213	-0.0002
46	50	HDR UNBIAS	1.2228	1.2245	0.0017
47	50	HDR UNBIAS	1.224	1.2235	-0.0005
48	50	HDR UNBIAS	1.2247	1.2242	-0.0005
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2233	1.223	-0.0003
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.224	1.2241	0.0001

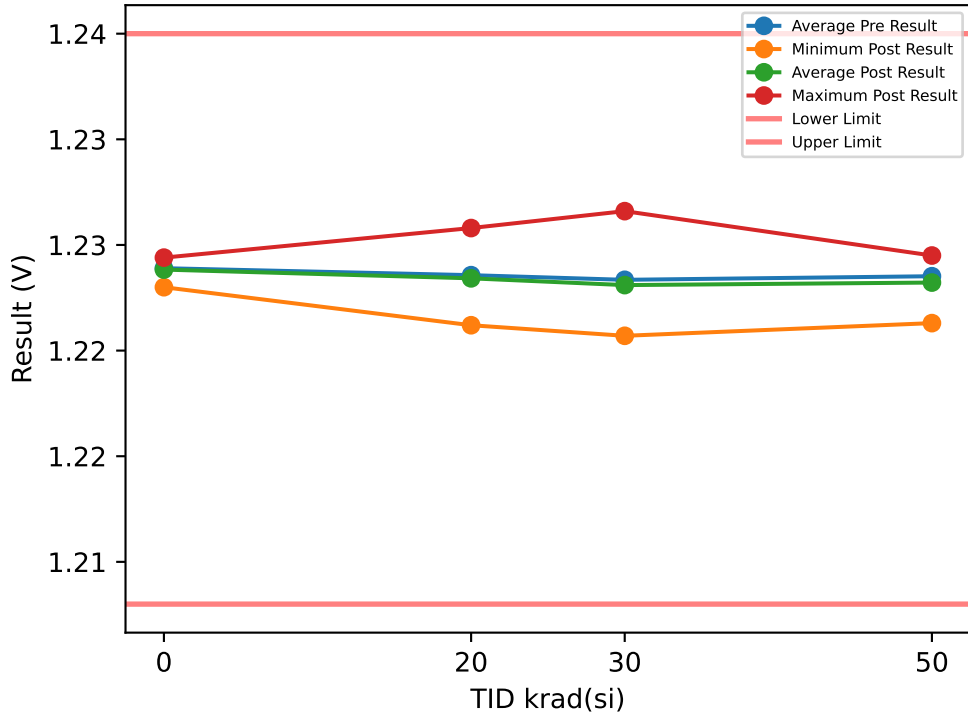
TID vs Post - Pre Exposure Delta



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	1.2233	1.224	1.2246	0.00065064	1.223	1.2239	1.2245	0.00077675	-0.0003	-0.0001	0.0001	0.0002
20	1.2213	1.2236	1.2266	0.0018592	1.2213	1.2235	1.2258	0.001656	-0.0008	-0.00014	0.0004	0.00046476
30	1.2206	1.2234	1.2271	0.0020455	1.2207	1.2231	1.2266	0.0019608	-0.0012	-0.00025	0.0007	0.00059489
50	1.2215	1.2236	1.2251	0.0010328	1.2213	1.2233	1.2245	0.0010554	-0.0017	-0.00034	0.0017	0.00089468

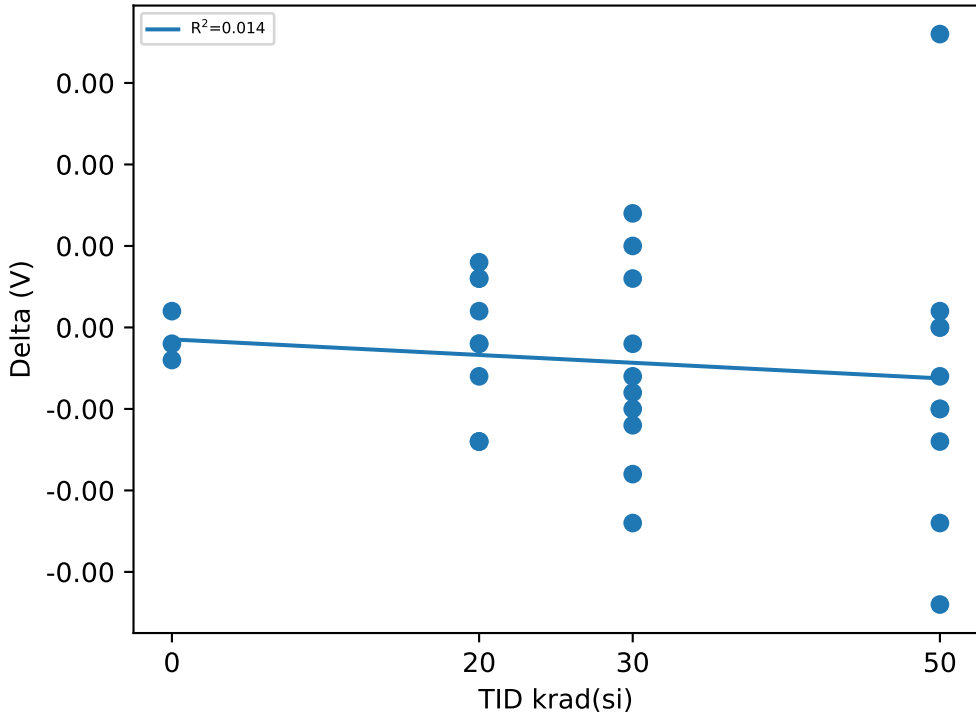
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2265	1.2258	-0.0007
22	20	HDR BIAS	1.2225	1.2228	0.0003
23	20	HDR BIAS	1.2213	1.2212	-0.0001
24	20	HDR BIAS	1.2225	1.2224	-0.0001
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.224	1.2241	0.0001
28	20	HDR UNBIAS	1.2218	1.2215	-0.0003
29	20	HDR UNBIAS	1.2245	1.2238	-0.0007
30	20	HDR UNBIAS	1.2217	1.2221	0.0004
31	30	HDR BIAS	1.2257	1.2248	-0.0009
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2227	1.2232	0.0005
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.2239	1.2242	0.0003
40	30	HDR UNBIAS	1.2243	1.2239	-0.0004
41	50	HDR BIAS	1.2235	1.2218	-0.0017
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.224	1.2237	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2213	1.2213	0
46	50	HDR UNBIAS	1.2227	1.2245	0.0018
47	50	HDR UNBIAS	1.2239	1.2234	-0.0005
48	50	HDR UNBIAS	1.2247	1.2242	-0.0005
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2231	1.2231	0
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2245	1.2244	-0.0001
73	0	CORRELATION	1.224	1.2241	0.0001

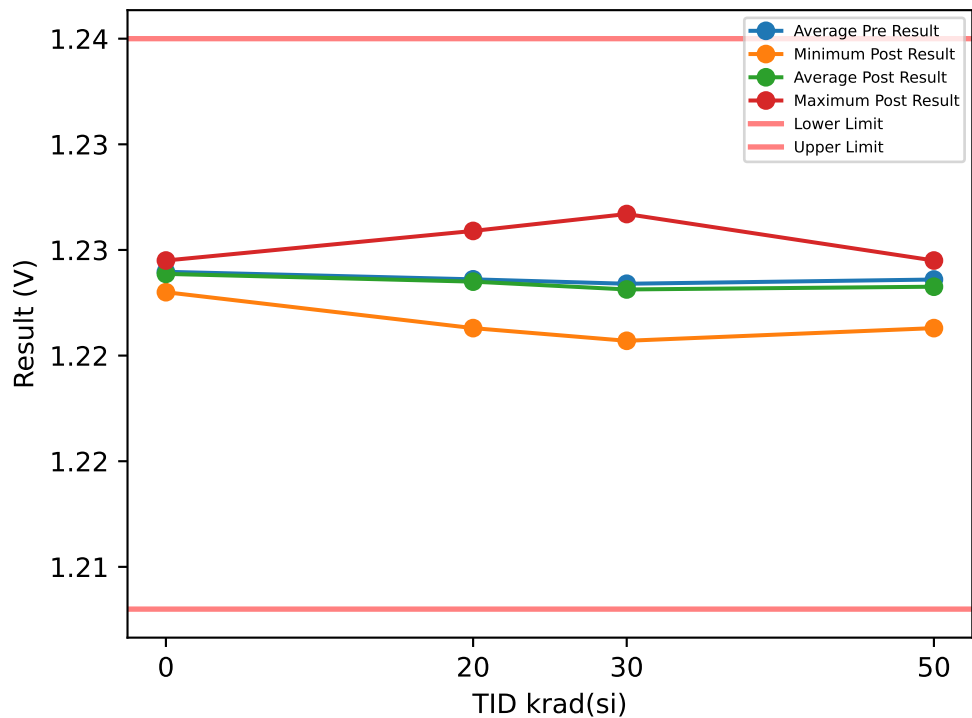
TID vs Post - Pre Exposure Delta



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	1.2232	1.2239	1.2245	0.00065574	1.223	1.2238	1.2244	0.00073711	-0.0002	-6.6667e-05	0.0001	0.00015275
20	1.2213	1.2236	1.2265	0.001853	1.2212	1.2234	1.2258	0.0016625	-0.0007	-0.00015	0.0004	0.00043525
30	1.2206	1.2233	1.2271	0.0020479	1.2207	1.2231	1.2266	0.0019419	-0.0012	-0.00025	0.0007	0.00060782
50	1.2213	1.2235	1.2251	0.0010779	1.2213	1.2232	1.2245	0.0010675	-0.0017	-0.0003	0.0018	0.00092856

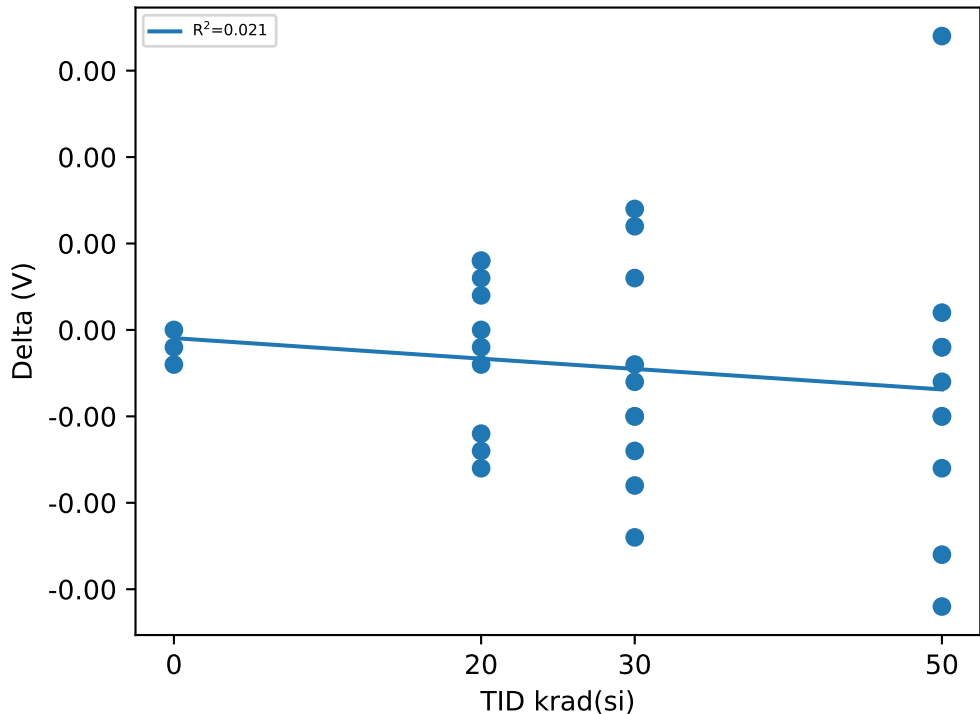
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2259	-0.0007
22	20	HDR BIAS	1.2225	1.2229	0.0004
23	20	HDR BIAS	1.2213	1.2213	0
24	20	HDR BIAS	1.2226	1.2225	-0.0001
25	20	HDR BIAS	1.2252	1.2256	0.0004
26	20	HDR UNBIAS	1.2257	1.2251	-0.0006
27	20	HDR UNBIAS	1.224	1.2242	0.0002
28	20	HDR UNBIAS	1.2218	1.2216	-0.0002
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2257	1.2248	-0.0009
32	30	HDR BIAS	1.2242	1.2239	-0.0003
33	30	HDR BIAS	1.2214	1.2207	-0.0007
34	30	HDR BIAS	1.222	1.2218	-0.0002
35	30	HDR BIAS	1.2227	1.2233	0.0006
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2272	1.2267	-0.0005
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.2239	1.2242	0.0003
40	30	HDR UNBIAS	1.2244	1.2239	-0.0005
41	50	HDR BIAS	1.2235	1.2219	-0.0016
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.224	1.2227	-0.0013
45	50	HDR BIAS	1.2214	1.2213	-0.0001
46	50	HDR UNBIAS	1.2228	1.2245	0.0017
47	50	HDR UNBIAS	1.224	1.2235	-0.0005
48	50	HDR UNBIAS	1.2248	1.2243	-0.0005
49	50	HDR UNBIAS	1.2252	1.2244	-0.0008
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.2241	1.2241	0

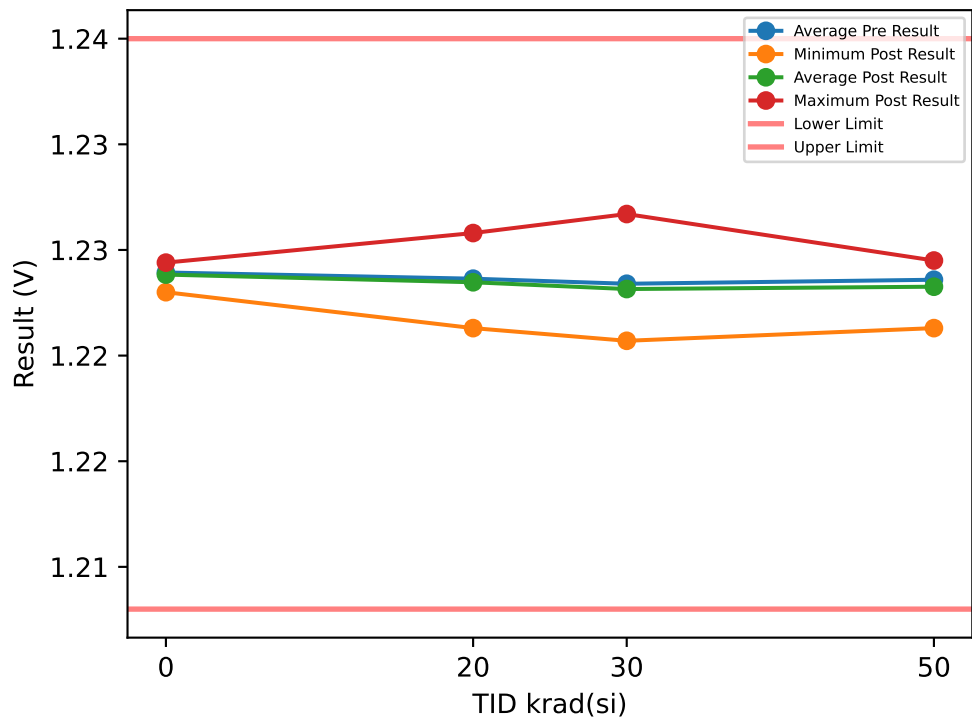
TID vs Post - Pre Exposure Delta



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	1.2232	1.224	1.2246	0.00070946	1.223	1.2239	1.2245	0.00077675	-0.0002	-0.0001	0	0.0001
20	1.2213	1.2236	1.2266	0.0018592	1.2213	1.2235	1.2259	0.0016693	-0.0008	-0.00011	0.0004	0.0004557
30	1.2206	1.2234	1.2272	0.0020591	1.2207	1.2231	1.2267	0.001967	-0.0012	-0.00027	0.0007	0.00063078
50	1.2214	1.2236	1.2252	0.0010842	1.2213	1.2233	1.2245	0.001071	-0.0016	-0.00034	0.0017	0.00089716

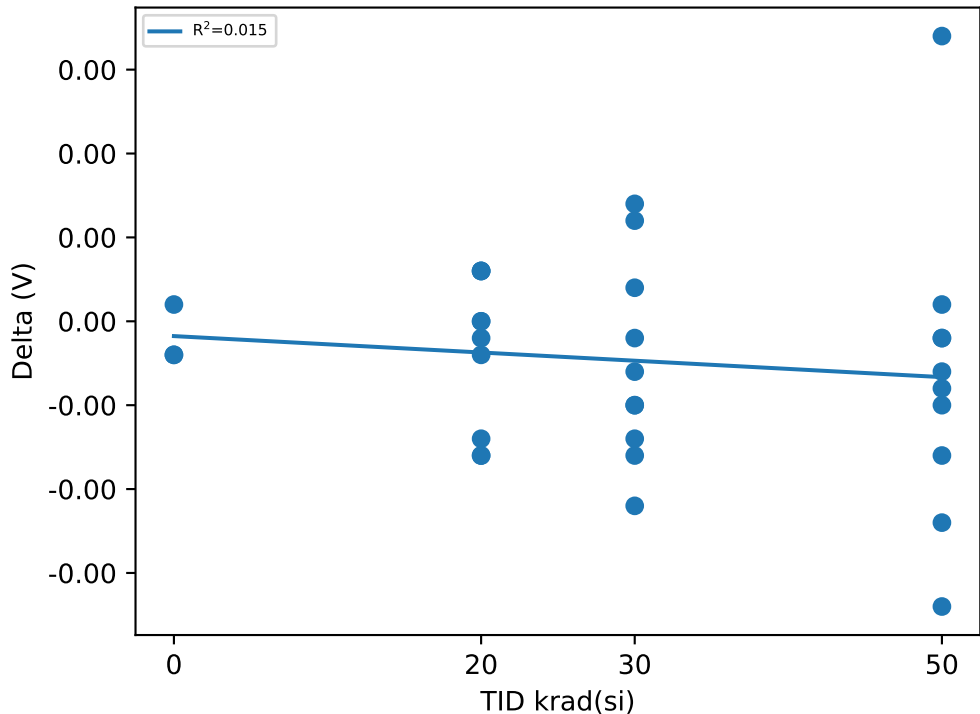
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2258	-0.0008
22	20	HDR BIAS	1.2226	1.2229	0.0003
23	20	HDR BIAS	1.2213	1.2213	0
24	20	HDR BIAS	1.2226	1.2225	-0.0001
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2258	1.2251	-0.0007
27	20	HDR UNBIAS	1.2241	1.2241	0
28	20	HDR UNBIAS	1.2218	1.2216	-0.0002
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2257	1.2249	-0.0008
32	30	HDR BIAS	1.2242	1.2239	-0.0003
33	30	HDR BIAS	1.2214	1.2207	-0.0007
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2227	1.2233	0.0006
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2272	1.2267	-0.0005
38	30	HDR UNBIAS	1.2219	1.2208	-0.0011
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.2239	-0.0005
41	50	HDR BIAS	1.2236	1.2219	-0.0017
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2214	1.2213	-0.0001
46	50	HDR UNBIAS	1.2228	1.2245	0.0017
47	50	HDR UNBIAS	1.2239	1.2235	-0.0004
48	50	HDR UNBIAS	1.2248	1.2243	-0.0005
49	50	HDR UNBIAS	1.2252	1.2244	-0.0008
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2246	1.2244	-0.0002
73	0	CORRELATION	1.224	1.2241	0.0001

TID vs Post - Pre Exposure Delta

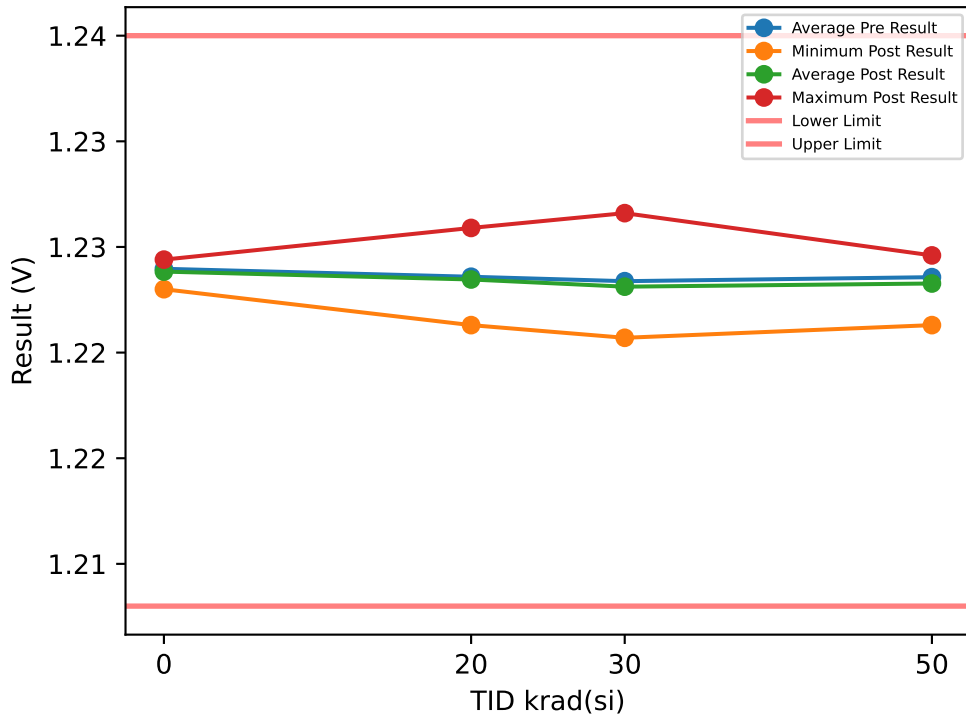


Test Statistics (V)

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	1.2232	1.2239	1.2246	0.00070238	1.223	1.2238	1.2244	0.00073711	-0.0002	-0.0001	0.0001	0.00017321
20	1.2213	1.2236	1.2266	0.001868	1.2213	1.2235	1.2258	0.0016351	-0.0008	-0.00017	0.0003	0.00044734
30	1.2206	1.2234	1.2272	0.0020699	1.2207	1.2231	1.2267	0.0019631	-0.0011	-0.00025	0.0007	0.00059675
50	1.2214	1.2236	1.2252	0.0010765	1.2213	1.2233	1.2245	0.001071	-0.0017	-0.00033	0.0017	0.00090068

Device Test: 21.25 VOLTAGE|VREF/VREF/4.5/4.5/0/1000/4.5/100kHz//@V\_REFCAP

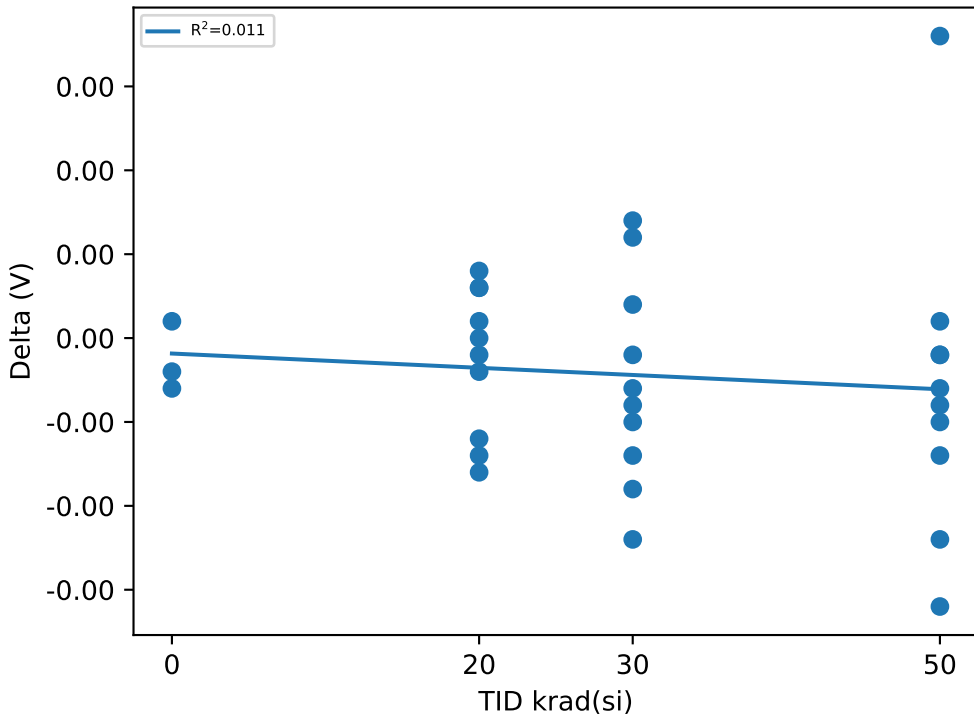
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2265	1.2259	-0.0006
22	20	HDR BIAS	1.2225	1.2229	0.0004
23	20	HDR BIAS	1.2213	1.2213	0
24	20	HDR BIAS	1.2225	1.2224	-0.0001
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.224	1.2241	0.0001
28	20	HDR UNBIAS	1.2218	1.2216	-0.0002
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2257	1.2248	-0.0009
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2214	1.2207	-0.0007
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2227	1.2233	0.0006
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.224	-0.0004
41	50	HDR BIAS	1.2235	1.2219	-0.0016
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2214	1.2213	-0.0001
46	50	HDR UNBIAS	1.2228	1.2246	0.0018
47	50	HDR UNBIAS	1.224	1.2235	-0.0005
48	50	HDR UNBIAS	1.2247	1.2243	-0.0004
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2233	1.223	-0.0003
72	0	CORRELATION	1.2246	1.2244	-0.0002
73	0	CORRELATION	1.224	1.2241	0.0001

TID vs Post - Pre Exposure Delta

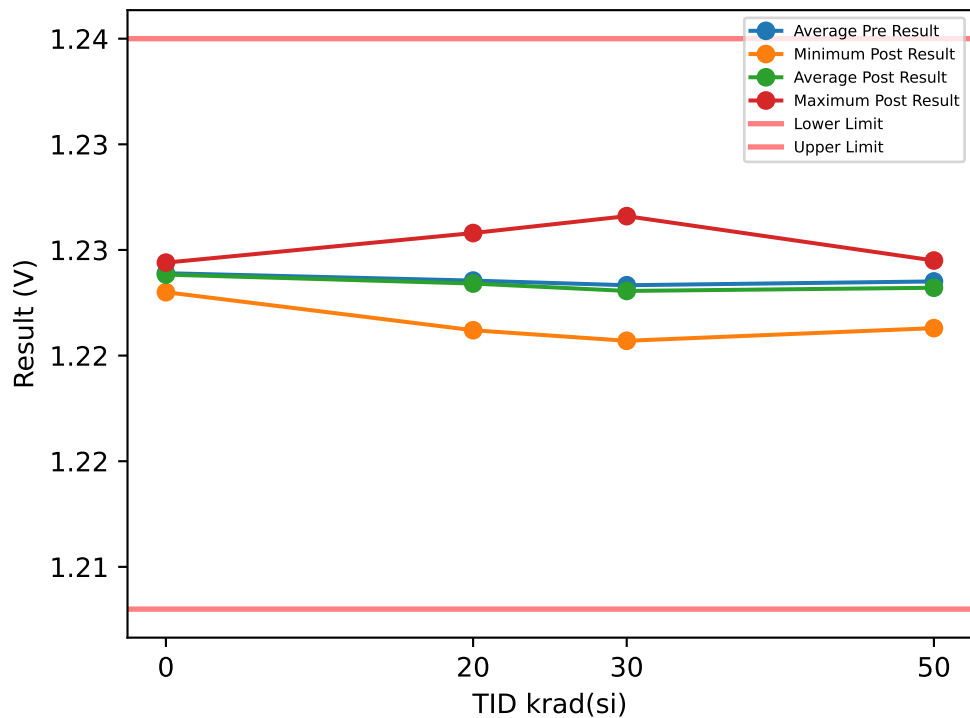


Test Statistics (V)

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	1.2233	1.224	1.2246	0.00065064	1.223	1.2238	1.2244	0.00073711	-0.0003	-0.00013333	0.0001	0.00020817
20	1.2213	1.2236	1.2265	0.0018478	1.2213	1.2235	1.2259	0.0016474	-0.0008	-0.00013	0.0004	0.00043729
30	1.2206	1.2234	1.2271	0.0020455	1.2207	1.2231	1.2266	0.0019475	-0.0012	-0.00026	0.0007	0.00062039
50	1.2214	1.2236	1.2251	0.001052	1.2213	1.2233	1.2246	0.0010843	-0.0016	-0.0003	0.0018	0.00090431



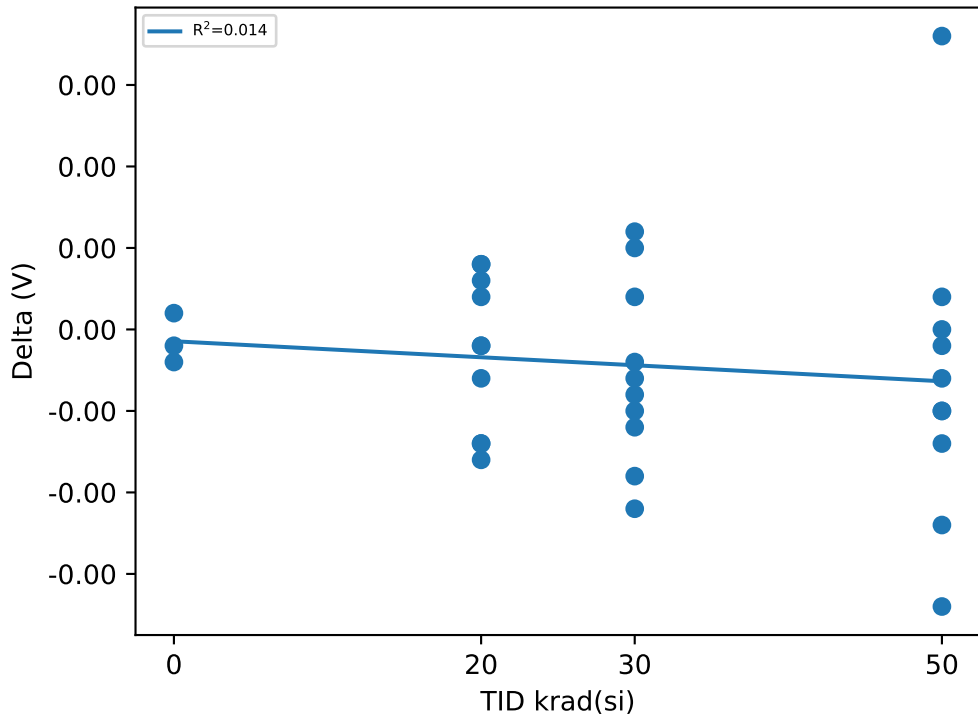
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2265	1.2258	-0.0007
22	20	HDR BIAS	1.2224	1.2228	0.0004
23	20	HDR BIAS	1.2213	1.2212	-0.0001
24	20	HDR BIAS	1.2225	1.2224	-0.0001
25	20	HDR BIAS	1.2251	1.2255	0.0004
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.2239	1.2241	0.0002
28	20	HDR UNBIAS	1.2218	1.2215	-0.0003
29	20	HDR UNBIAS	1.2245	1.2237	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2256	1.2247	-0.0009
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2217	-0.0002
35	30	HDR BIAS	1.2227	1.2232	0.0005
36	30	HDR UNBIAS	1.2206	1.2212	0.0006
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2218	1.2207	-0.0011
39	30	HDR UNBIAS	1.2239	1.2241	0.0002
40	30	HDR UNBIAS	1.2243	1.2239	-0.0004
41	50	HDR BIAS	1.2235	1.2218	-0.0017
42	50	HDR BIAS	1.2229	1.2231	0.0002
43	50	HDR BIAS	1.224	1.2237	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2213	1.2213	0
46	50	HDR UNBIAS	1.2227	1.2245	0.0018
47	50	HDR UNBIAS	1.2239	1.2234	-0.0005
48	50	HDR UNBIAS	1.2247	1.2242	-0.0005
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2231	1.223	-0.0001
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2245	1.2244	-0.0001
73	0	CORRELATION	1.224	1.2241	0.0001

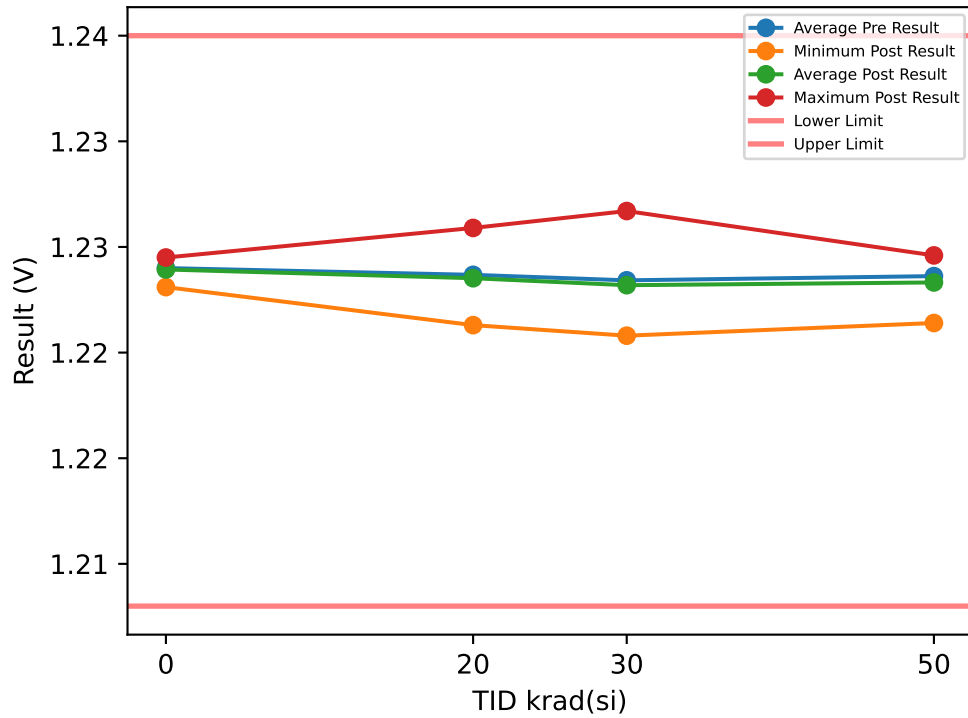
TID vs Post - Pre Exposure Delta



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	1.2232	1.2239	1.2245	0.00065574	1.223	1.2238	1.2244	0.00073711	-0.0002	-6.6667e-05	0.0001	0.00015275
20	1.2213	1.2235	1.2265	0.0018368	1.2212	1.2234	1.2258	0.0016603	-0.0008	-0.00014	0.0004	0.00046952
30	1.2206	1.2233	1.2271	0.0020434	1.2207	1.2231	1.2266	0.0019443	-0.0011	-0.00027	0.0006	0.00056184
50	1.2213	1.2235	1.2251	0.0010837	1.2213	1.2232	1.2245	0.0010692	-0.0017	-0.0003	0.0018	0.00093095

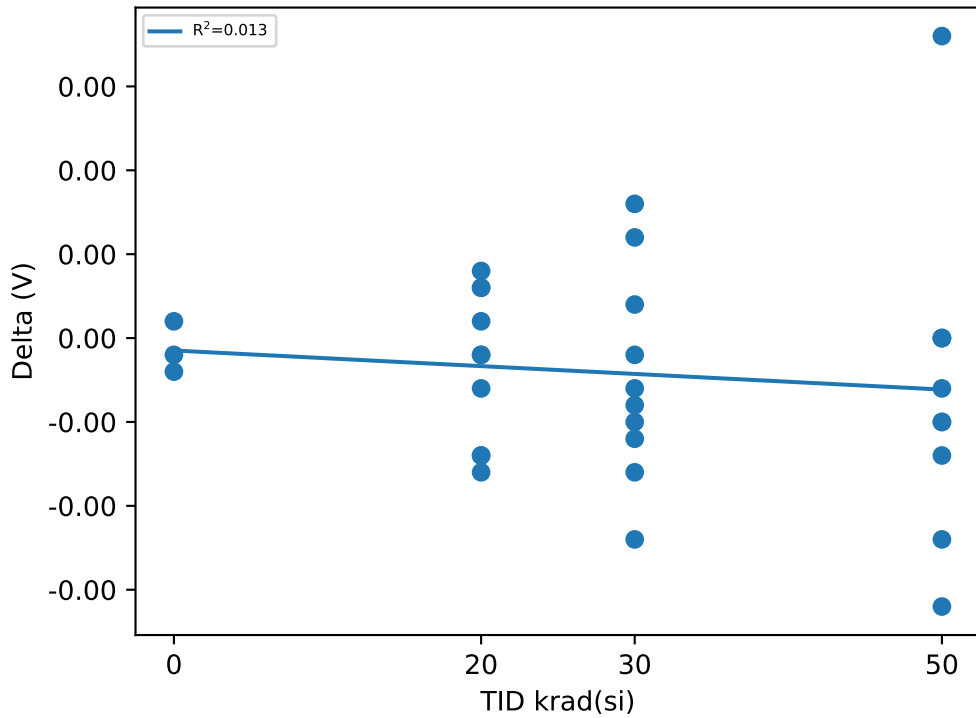
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2267	1.2259	-0.0008
22	20	HDR BIAS	1.2226	1.2229	0.0003
23	20	HDR BIAS	1.2214	1.2213	-0.0001
24	20	HDR BIAS	1.2226	1.2225	-0.0001
25	20	HDR BIAS	1.2253	1.2256	0.0003
26	20	HDR UNBIAS	1.2258	1.2251	-0.0007
27	20	HDR UNBIAS	1.2241	1.2242	0.0001
28	20	HDR UNBIAS	1.2219	1.2216	-0.0003
29	20	HDR UNBIAS	1.2246	1.2239	-0.0007
30	20	HDR UNBIAS	1.2218	1.2222	0.0004
31	30	HDR BIAS	1.2257	1.2249	-0.0008
32	30	HDR BIAS	1.2242	1.2239	-0.0003
33	30	HDR BIAS	1.2214	1.2208	-0.0006
34	30	HDR BIAS	1.222	1.2219	-0.0001
35	30	HDR BIAS	1.2227	1.2233	0.0006
36	30	HDR UNBIAS	1.2206	1.2214	0.0008
37	30	HDR UNBIAS	1.2272	1.2267	-0.0005
38	30	HDR UNBIAS	1.222	1.2208	-0.0012
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.224	-0.0004
41	50	HDR BIAS	1.2236	1.222	-0.0016
42	50	HDR BIAS	1.2231	1.2231	0
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.224	1.2228	-0.0012
45	50	HDR BIAS	1.2214	1.2214	0
46	50	HDR UNBIAS	1.2228	1.2246	0.0018
47	50	HDR UNBIAS	1.224	1.2235	-0.0005
48	50	HDR UNBIAS	1.2248	1.2243	-0.0005
49	50	HDR UNBIAS	1.2252	1.2245	-0.0007
50	50	HDR UNBIAS	1.2232	1.2232	0
71	0	CORRELATION	1.2233	1.2231	-0.0002
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.2241	1.2242	0.0001

TID vs Post - Pre Exposure Delta

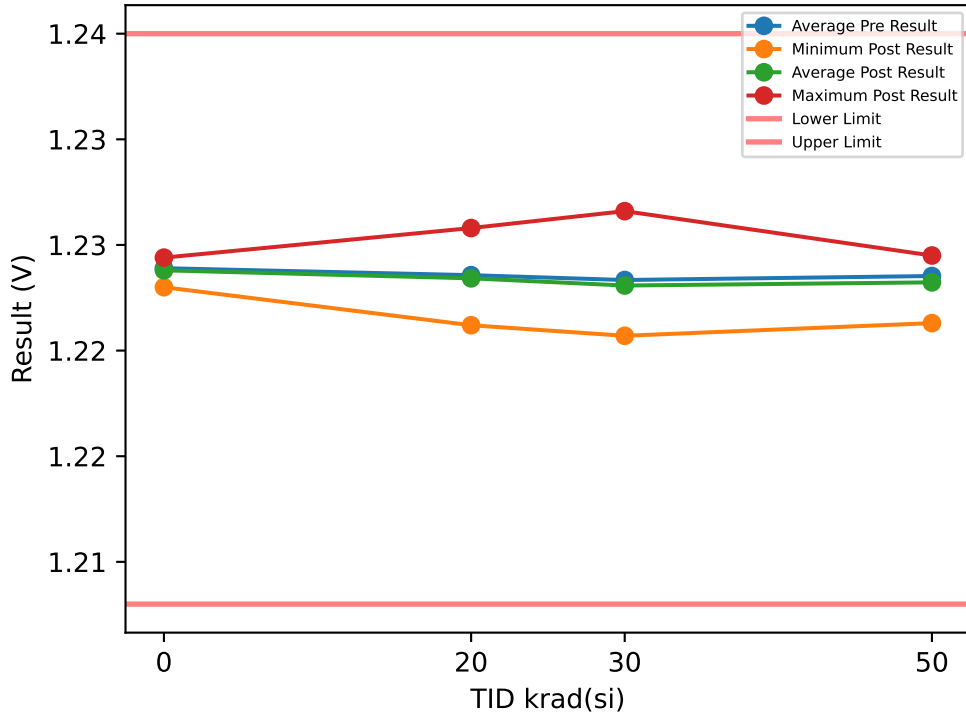


Test Statistics (V)

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	1.2233	1.224	1.2246	0.00065574	1.2231	1.2239	1.2245	0.00073711	-0.0002	-6.6667e-05	0.0001	0.00015275
20	1.2214	1.2237	1.2267	0.0018707	1.2213	1.2235	1.2259	0.0016625	-0.0008	-0.00016	0.0004	0.00045019
30	1.2206	1.2234	1.2272	0.0020542	1.2208	1.2232	1.2267	0.0019359	-0.0012	-0.00023	0.0008	0.00062013
50	1.2214	1.2236	1.2252	0.0010779	1.2214	1.2233	1.2246	0.0010549	-0.0016	-0.0003	0.0018	0.00090799

# Device Test: 21.3 VOLTAGE|VREF/VREF/5/5/0/0/5/100kHz//@V\_REFCAP

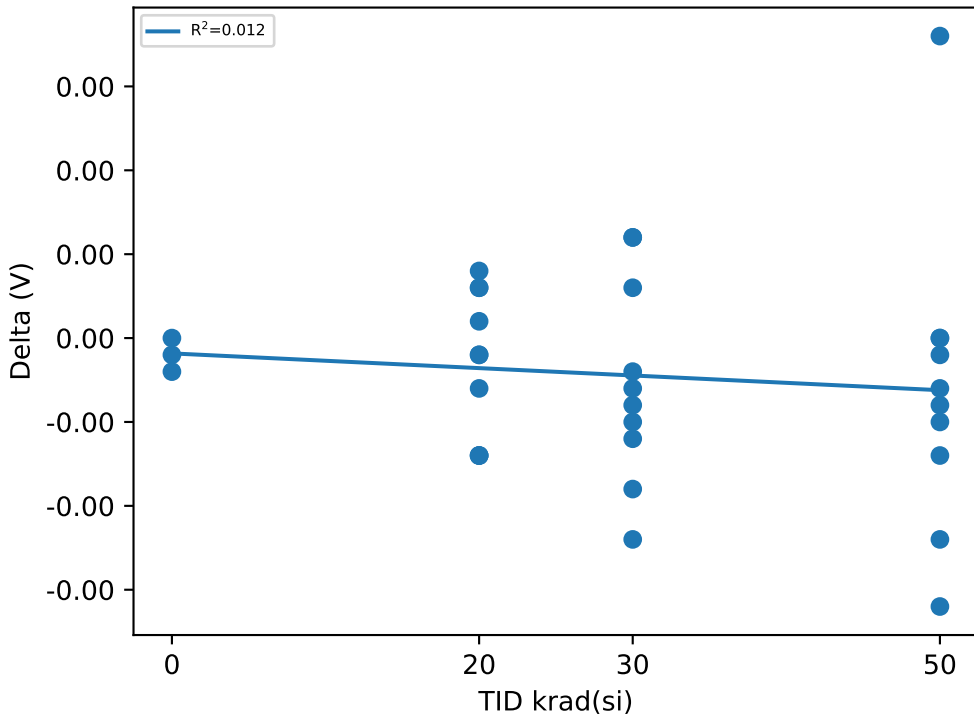
## TID vs Result Stats



## Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2265	1.2258	-0.0007
22	20	HDR BIAS	1.2225	1.2228	0.0003
23	20	HDR BIAS	1.2213	1.2212	-0.0001
24	20	HDR BIAS	1.2225	1.2224	-0.0001
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.224	1.2241	0.0001
28	20	HDR UNBIAS	1.2218	1.2215	-0.0003
29	20	HDR UNBIAS	1.2245	1.2238	-0.0007
30	20	HDR UNBIAS	1.2217	1.2221	0.0004
31	30	HDR BIAS	1.2257	1.2248	-0.0009
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2217	-0.0002
35	30	HDR BIAS	1.2226	1.2232	0.0006
36	30	HDR UNBIAS	1.2206	1.2212	0.0006
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.2239	1.2242	0.0003
40	30	HDR UNBIAS	1.2243	1.2239	-0.0004
41	50	HDR BIAS	1.2235	1.2219	-0.0016
42	50	HDR BIAS	1.223	1.223	0
43	50	HDR BIAS	1.224	1.2237	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2214	1.2213	-0.0001
46	50	HDR UNBIAS	1.2227	1.2245	0.0018
47	50	HDR UNBIAS	1.2239	1.2235	-0.0004
48	50	HDR UNBIAS	1.2247	1.2242	-0.0005
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2231	1.2231	0
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2245	1.2244	-0.0001
73	0	CORRELATION	1.224	1.224	0

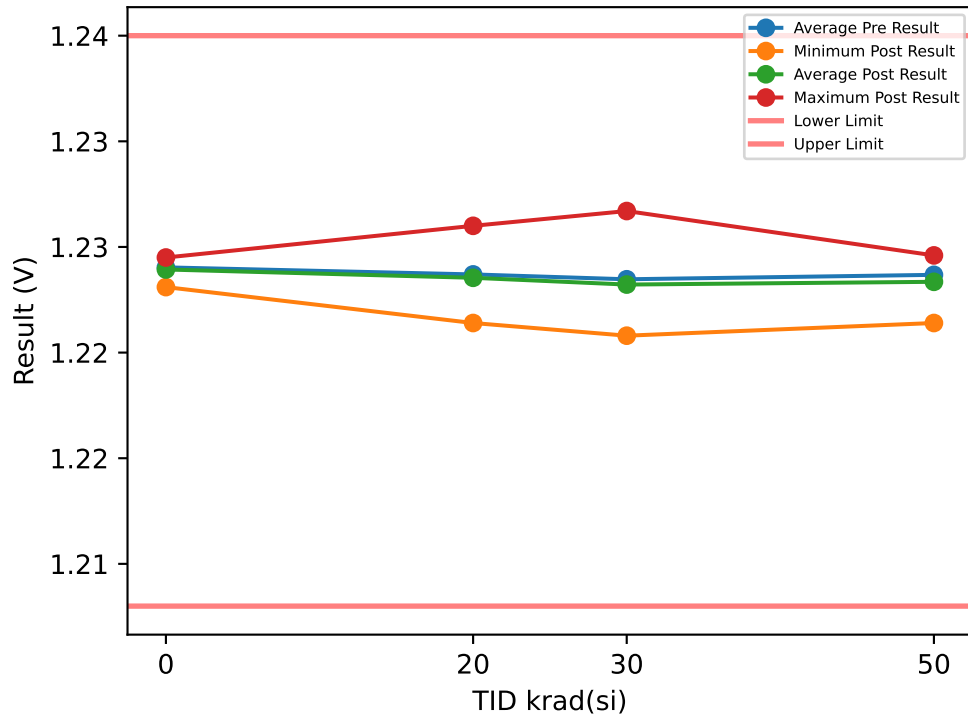
## TID vs Post - Pre Exposure Delta



## 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	1.2232	1.2239	1.2245	0.00065574	1.223	1.2238	1.2244	0.00072111	-0.0002	-0.0001	0	0.0001
20	1.2213	1.2236	1.2265	0.001853	1.2212	1.2234	1.2258	0.0016625	-0.0007	-0.00015	0.0004	0.00043525
30	1.2206	1.2233	1.2271	0.0020517	1.2207	1.2231	1.2266	0.00196	-0.0012	-0.00026	0.0006	0.00060406
50	1.2214	1.2235	1.2251	0.0010552	1.2213	1.2232	1.2245	0.0010573	-0.0016	-0.0003	0.0018	0.00090308

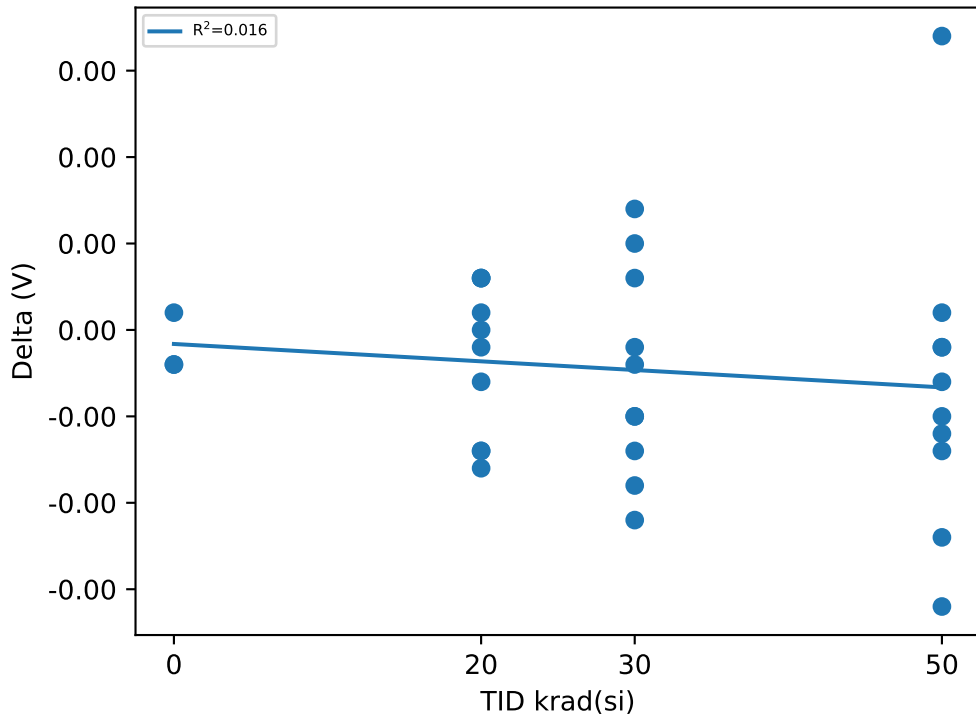
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2267	1.226	-0.0007
22	20	HDR BIAS	1.2226	1.2229	0.0003
23	20	HDR BIAS	1.2214	1.2214	0
24	20	HDR BIAS	1.2226	1.2225	-0.0001
25	20	HDR BIAS	1.2253	1.2256	0.0003
26	20	HDR UNBIAS	1.2258	1.2251	-0.0007
27	20	HDR UNBIAS	1.2241	1.2242	0.0001
28	20	HDR UNBIAS	1.2219	1.2216	-0.0003
29	20	HDR UNBIAS	1.2247	1.2239	-0.0008
30	20	HDR UNBIAS	1.2219	1.2222	0.0003
31	30	HDR BIAS	1.2258	1.2249	-0.0009
32	30	HDR BIAS	1.2242	1.224	-0.0002
33	30	HDR BIAS	1.2215	1.2208	-0.0007
34	30	HDR BIAS	1.222	1.2219	-0.0001
35	30	HDR BIAS	1.2228	1.2233	0.0005
36	30	HDR UNBIAS	1.2207	1.2214	0.0007
37	30	HDR UNBIAS	1.2272	1.2267	-0.0005
38	30	HDR UNBIAS	1.222	1.2209	-0.0011
39	30	HDR UNBIAS	1.224	1.2243	0.0003
40	30	HDR UNBIAS	1.2245	1.224	-0.0005
41	50	HDR BIAS	1.2236	1.222	-0.0016
42	50	HDR BIAS	1.2231	1.2232	0.0001
43	50	HDR BIAS	1.2242	1.2239	-0.0003
44	50	HDR BIAS	1.224	1.2228	-0.0012
45	50	HDR BIAS	1.2215	1.2214	-0.0001
46	50	HDR UNBIAS	1.2229	1.2246	0.0017
47	50	HDR UNBIAS	1.2241	1.2236	-0.0005
48	50	HDR UNBIAS	1.2249	1.2243	-0.0006
49	50	HDR UNBIAS	1.2252	1.2245	-0.0007
50	50	HDR UNBIAS	1.2233	1.2232	-0.0001
71	0	CORRELATION	1.2233	1.2231	-0.0002
72	0	CORRELATION	1.2247	1.2245	-0.0002
73	0	CORRELATION	1.2241	1.2242	0.0001

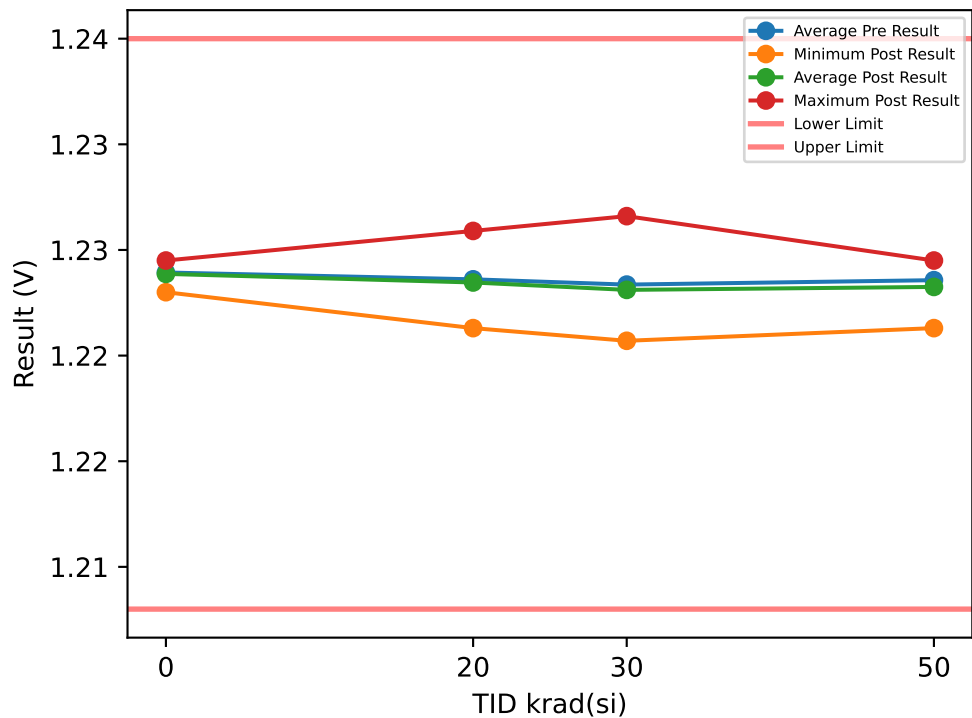
TID vs Post - Pre Exposure Delta



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	1.2233	1.224	1.2247	0.00070238	1.2231	1.2239	1.2245	0.00073711	-0.0002	-0.0001	0.0001	0.00017321
20	1.2214	1.2237	1.2267	0.0018655	1.2214	1.2235	1.226	0.0016641	-0.0008	-0.00016	0.0003	0.0004402
30	1.2207	1.2235	1.2272	0.0020424	1.2208	1.2232	1.2267	0.0019326	-0.0011	-0.00025	0.0007	0.00060231
50	1.2215	1.2237	1.2252	0.0010644	1.2214	1.2233	1.2246	0.0010607	-0.0016	-0.00033	0.0017	0.00088324

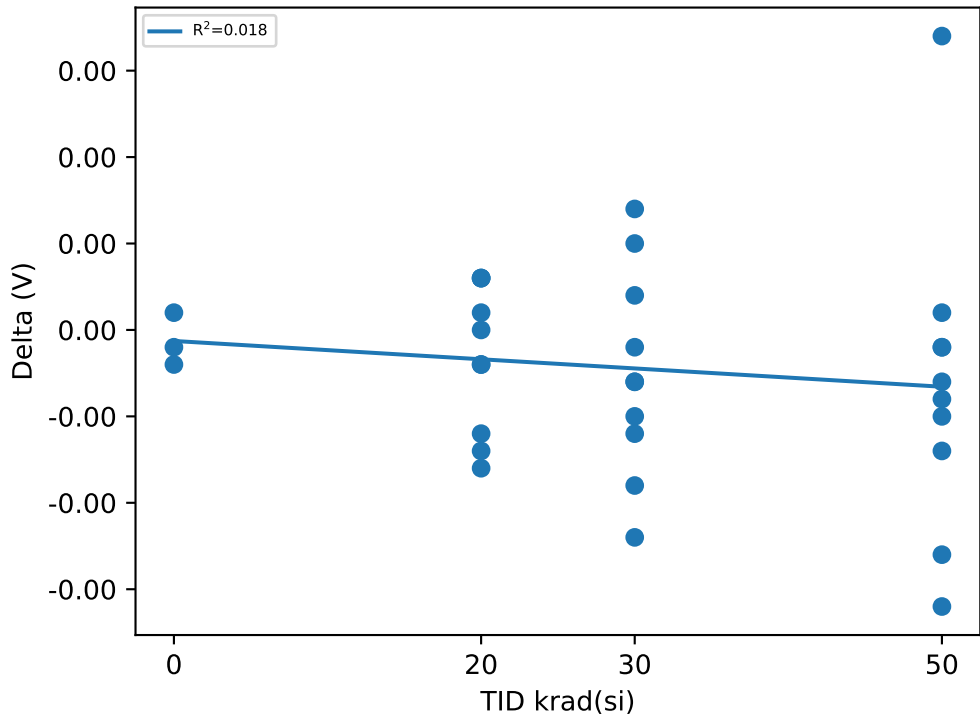
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2259	-0.0007
22	20	HDR BIAS	1.2225	1.2228	0.0003
23	20	HDR BIAS	1.2213	1.2213	0
24	20	HDR BIAS	1.2226	1.2224	-0.0002
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.2251	-0.0006
27	20	HDR UNBIAS	1.224	1.2241	0.0001
28	20	HDR UNBIAS	1.2218	1.2216	-0.0002
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2257	1.2248	-0.0009
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2227	1.2232	0.0005
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2243	1.224	-0.0003
41	50	HDR BIAS	1.2235	1.2219	-0.0016
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.224	1.2227	-0.0013
45	50	HDR BIAS	1.2214	1.2213	-0.0001
46	50	HDR UNBIAS	1.2228	1.2245	0.0017
47	50	HDR UNBIAS	1.2239	1.2235	-0.0004
48	50	HDR UNBIAS	1.2247	1.2242	-0.0005
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.224	1.2241	0.0001

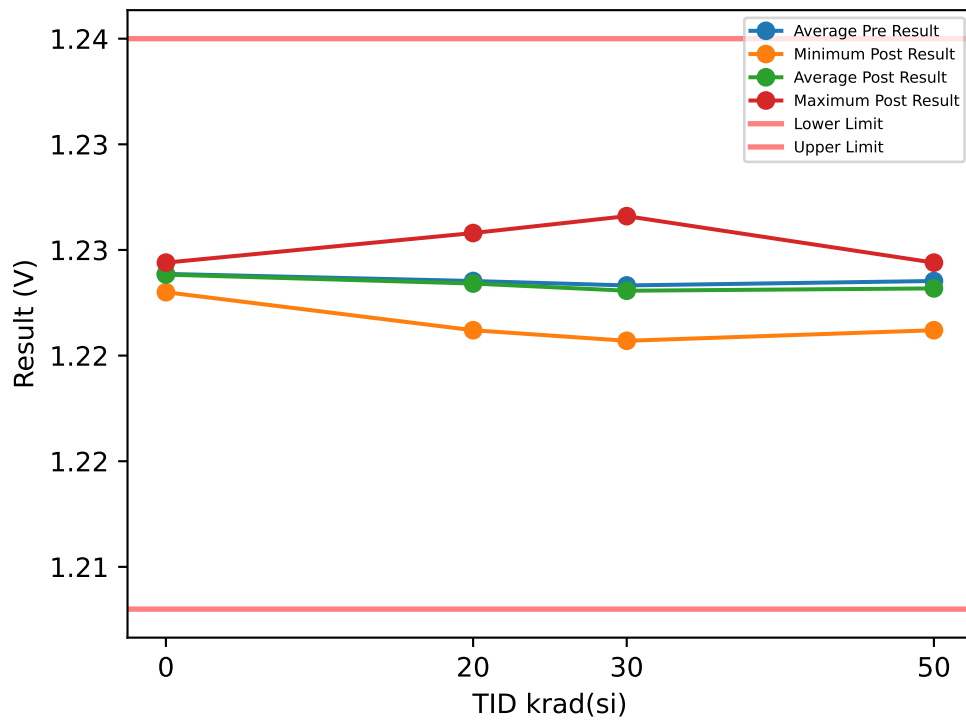
TID vs Post - Pre Exposure Delta



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	1.2232	1.2239	1.2246	0.00070238	1.223	1.2239	1.2245	0.00077675	-0.0002	-6.6667e-05	0.0001	0.00015275
20	1.2213	1.2236	1.2266	0.0018592	1.2213	1.2235	1.2259	0.0016621	-0.0008	-0.00015	0.0003	0.00042492
30	1.2206	1.2234	1.2271	0.0020511	1.2207	1.2231	1.2266	0.0019468	-0.0012	-0.00025	0.0007	0.00059675
50	1.2214	1.2236	1.2251	0.001052	1.2213	1.2232	1.2245	0.0010607	-0.0016	-0.00032	0.0017	0.00089044

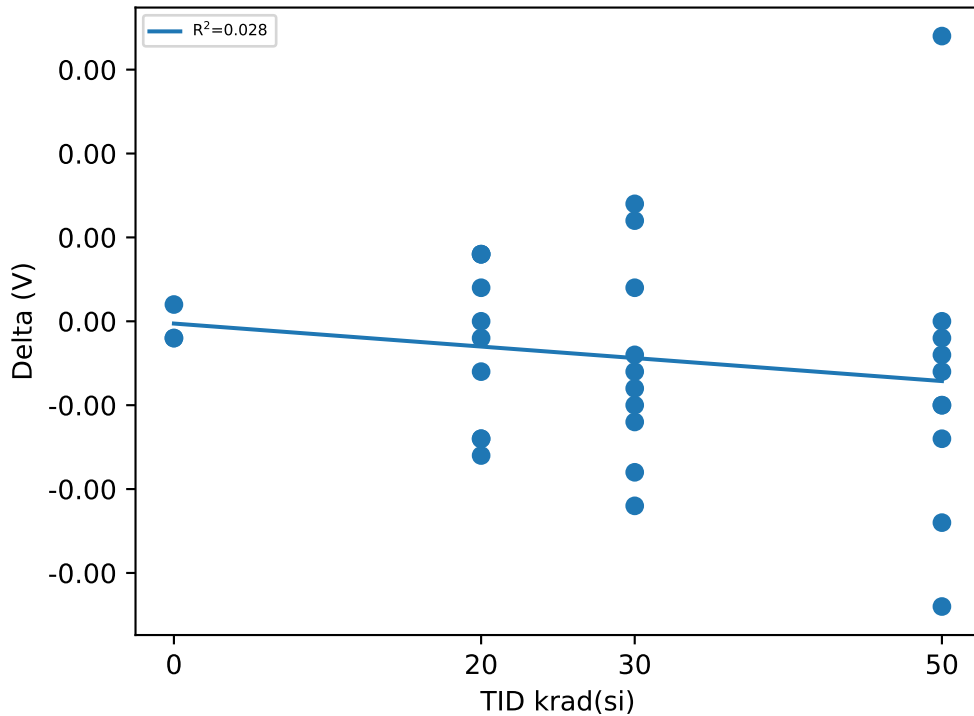
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2265	1.2258	-0.0007
22	20	HDR BIAS	1.2224	1.2228	0.0004
23	20	HDR BIAS	1.2212	1.2212	0
24	20	HDR BIAS	1.2225	1.2224	-0.0001
25	20	HDR BIAS	1.2251	1.2255	0.0004
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.2239	1.2241	0.0002
28	20	HDR UNBIAS	1.2218	1.2215	-0.0003
29	20	HDR UNBIAS	1.2245	1.2237	-0.0008
30	20	HDR UNBIAS	1.2217	1.2221	0.0004
31	30	HDR BIAS	1.2257	1.2248	-0.0009
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2217	-0.0002
35	30	HDR BIAS	1.2226	1.2232	0.0006
36	30	HDR UNBIAS	1.2205	1.2212	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2218	1.2207	-0.0011
39	30	HDR UNBIAS	1.2239	1.2241	0.0002
40	30	HDR UNBIAS	1.2243	1.2239	-0.0004
41	50	HDR BIAS	1.2235	1.2218	-0.0017
42	50	HDR BIAS	1.223	1.223	0
43	50	HDR BIAS	1.224	1.2237	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2214	1.2212	-0.0002
46	50	HDR UNBIAS	1.2227	1.2244	0.0017
47	50	HDR UNBIAS	1.2239	1.2234	-0.0005
48	50	HDR UNBIAS	1.2247	1.2242	-0.0005
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2231	1.223	-0.0001
71	0	CORRELATION	1.2231	1.223	-0.0001
72	0	CORRELATION	1.2245	1.2244	-0.0001
73	0	CORRELATION	1.224	1.2241	0.0001

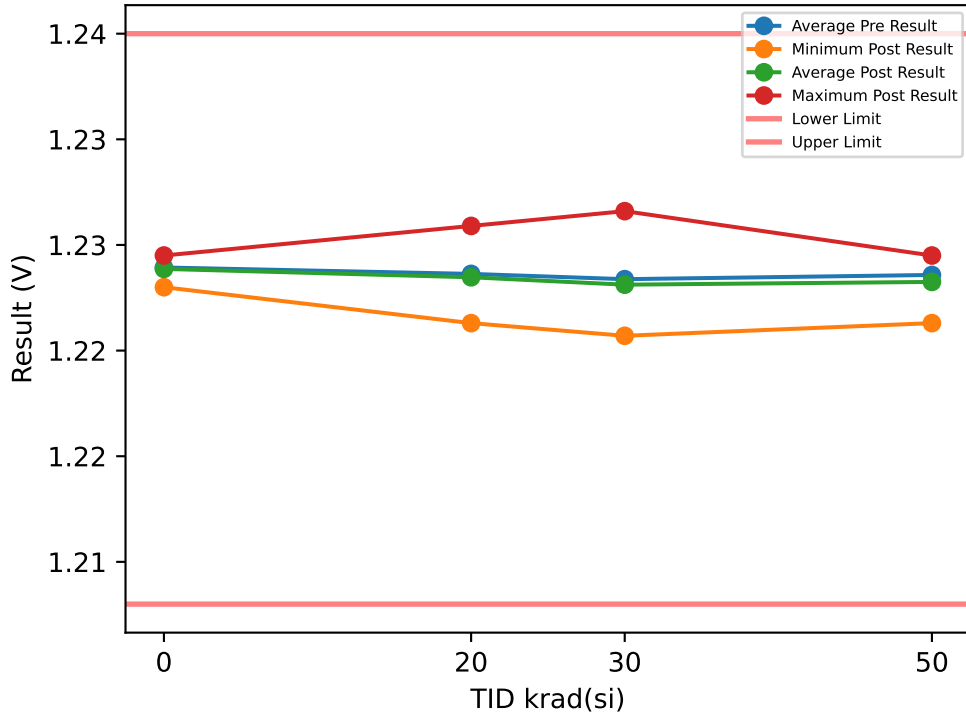
TID vs Post - Pre Exposure Delta



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	1.2231	1.2239	1.2245	0.00070946	1.223	1.2238	1.2244	0.00073711	-0.0001	-3.3333e-05	0.0001	0.00011547
20	1.2212	1.2235	1.2265	0.0018613	1.2212	1.2234	1.2258	0.0016603	-0.0008	-0.00012	0.0004	0.00048259
30	1.2205	1.2233	1.2271	0.0020746	1.2207	1.2231	1.2266	0.0019539	-0.0011	-0.00025	0.0007	0.00059489
50	1.2214	1.2235	1.2251	0.0010552	1.2212	1.2232	1.2244	0.0010779	-0.0017	-0.00035	0.0017	0.00088976

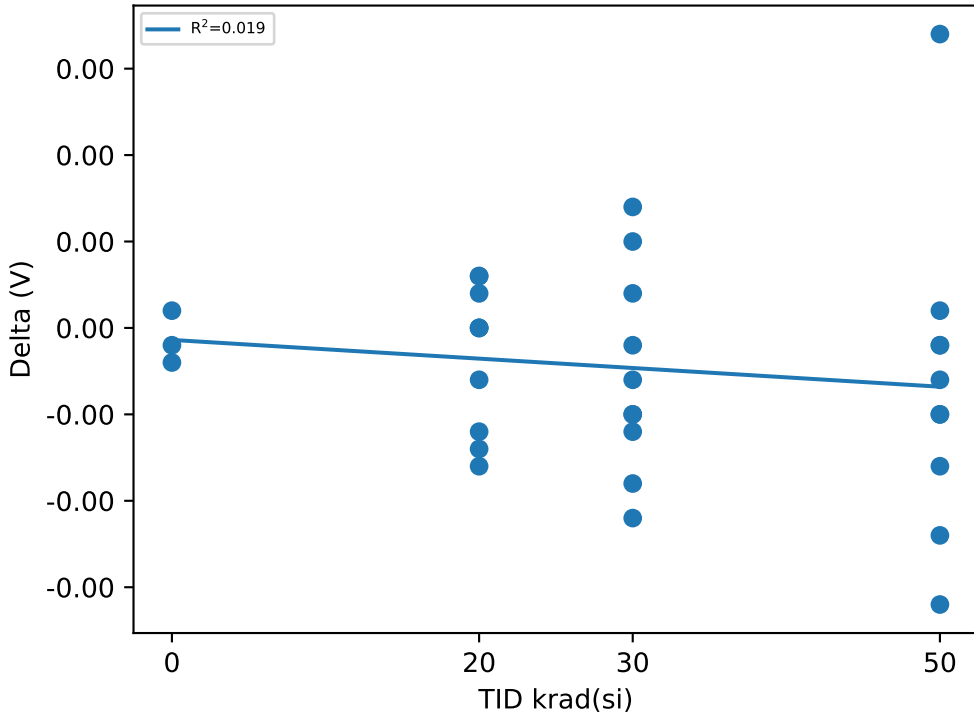
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2259	-0.0007
22	20	HDR BIAS	1.2226	1.2229	0.0003
23	20	HDR BIAS	1.2213	1.2213	0
24	20	HDR BIAS	1.2225	1.2225	0
25	20	HDR BIAS	1.2253	1.2255	0.0002
26	20	HDR UNBIAS	1.2257	1.2251	-0.0006
27	20	HDR UNBIAS	1.2241	1.2241	0
28	20	HDR UNBIAS	1.2218	1.2215	-0.0003
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2257	1.2248	-0.0009
32	30	HDR BIAS	1.2242	1.2239	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2227	1.2232	0.0005
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2208	-0.0011
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.2239	-0.0005
41	50	HDR BIAS	1.2235	1.2219	-0.0016
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2214	1.2213	-0.0001
46	50	HDR UNBIAS	1.2228	1.2245	0.0017
47	50	HDR UNBIAS	1.224	1.2235	-0.0005
48	50	HDR UNBIAS	1.2247	1.2242	-0.0005
49	50	HDR UNBIAS	1.2252	1.2244	-0.0008
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.224	1.2241	0.0001

TID vs Post - Pre Exposure Delta

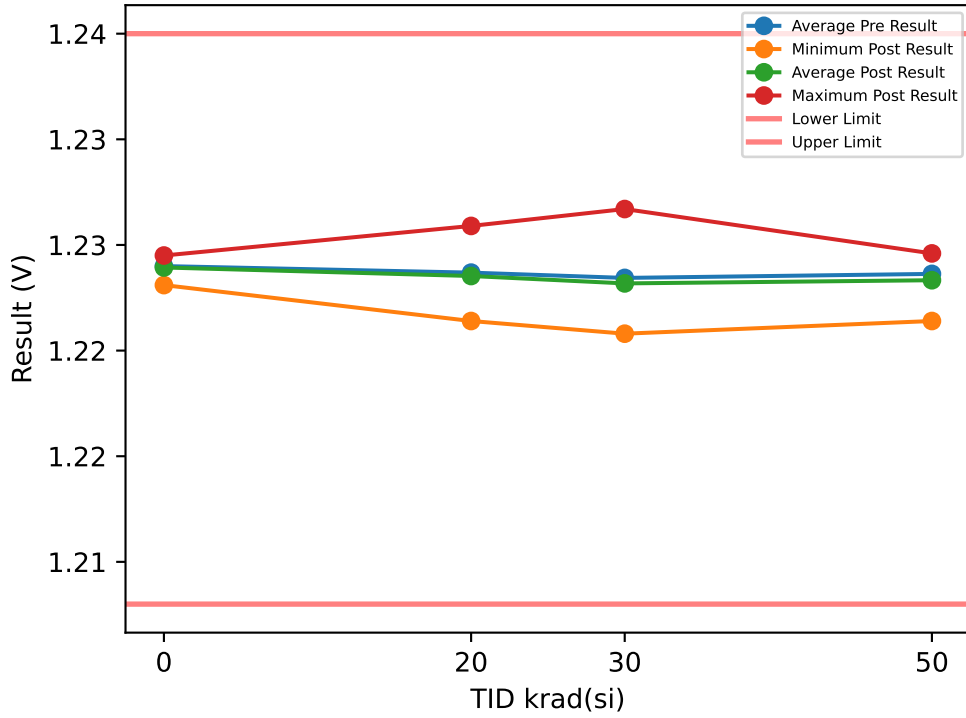


Test Statistics (V)

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	1.2232	1.2239	1.2246	0.00070238	1.223	1.2239	1.2245	0.00077675	-0.0002	-6.6667e-05	0.0001	0.00015275
20	1.2213	1.2236	1.2266	0.0018715	1.2213	1.2235	1.2259	0.001664	-0.0008	-0.00016	0.0003	0.00041419
30	1.2206	1.2234	1.2271	0.0020606	1.2207	1.2231	1.2266	0.0019326	-0.0011	-0.00026	0.0007	0.00058538
50	1.2214	1.2236	1.2252	0.0010685	1.2213	1.2232	1.2245	0.0010607	-0.0016	-0.00033	0.0017	0.00088575



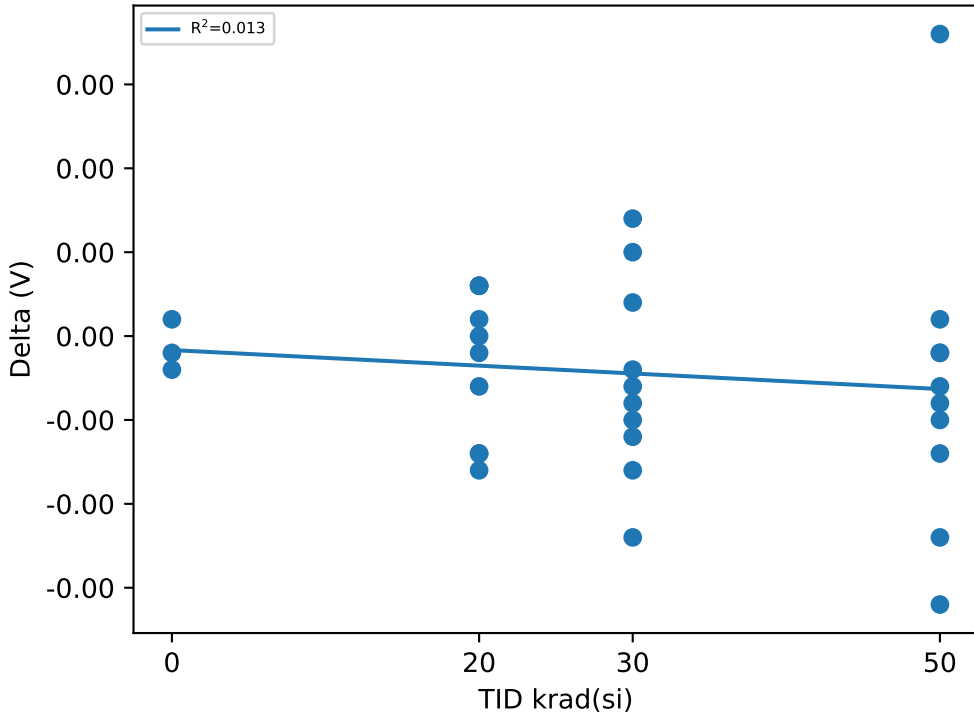
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2259	-0.0007
22	20	HDR BIAS	1.2226	1.2229	0.0003
23	20	HDR BIAS	1.2214	1.2214	0
24	20	HDR BIAS	1.2226	1.2225	-0.0001
25	20	HDR BIAS	1.2253	1.2256	0.0003
26	20	HDR UNBIAS	1.2258	1.2251	-0.0007
27	20	HDR UNBIAS	1.2241	1.2242	0.0001
28	20	HDR UNBIAS	1.2219	1.2216	-0.0003
29	20	HDR UNBIAS	1.2247	1.2239	-0.0008
30	20	HDR UNBIAS	1.2219	1.2222	0.0003
31	30	HDR BIAS	1.2257	1.2249	-0.0008
32	30	HDR BIAS	1.2242	1.2239	-0.0003
33	30	HDR BIAS	1.2214	1.2208	-0.0006
34	30	HDR BIAS	1.222	1.2218	-0.0002
35	30	HDR BIAS	1.2228	1.2233	0.0005
36	30	HDR UNBIAS	1.2207	1.2214	0.0007
37	30	HDR UNBIAS	1.2272	1.2267	-0.0005
38	30	HDR UNBIAS	1.222	1.2208	-0.0012
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.224	-0.0004
41	50	HDR BIAS	1.2236	1.222	-0.0016
42	50	HDR BIAS	1.2231	1.2232	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.224	1.2228	-0.0012
45	50	HDR BIAS	1.2215	1.2214	-0.0001
46	50	HDR UNBIAS	1.2228	1.2246	0.0018
47	50	HDR UNBIAS	1.224	1.2236	-0.0004
48	50	HDR UNBIAS	1.2248	1.2243	-0.0005
49	50	HDR UNBIAS	1.2252	1.2245	-0.0007
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2233	1.2231	-0.0002
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.2241	1.2242	0.0001

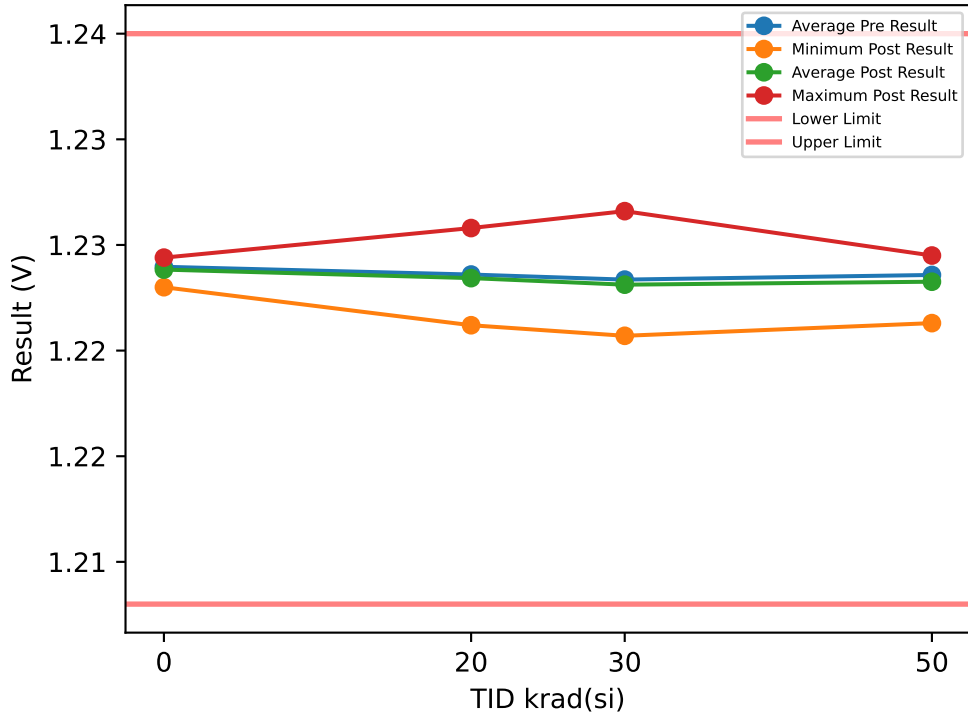
TID vs Post - Pre Exposure Delta



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	1.2233	1.224	1.2246	0.00065574	1.2231	1.2239	1.2245	0.00073711	-0.0002	-6.6667e-05	0.0001	0.00015275
20	1.2214	1.2237	1.2266	0.0018478	1.2214	1.2235	1.2259	0.0016479	-0.0008	-0.00016	0.0003	0.0004402
30	1.2207	1.2234	1.2272	0.0020354	1.2208	1.2232	1.2267	0.0019435	-0.0012	-0.00026	0.0007	0.00058538
50	1.2215	1.2236	1.2252	0.0010552	1.2214	1.2233	1.2246	0.0010573	-0.0016	-0.0003	0.0018	0.00090431

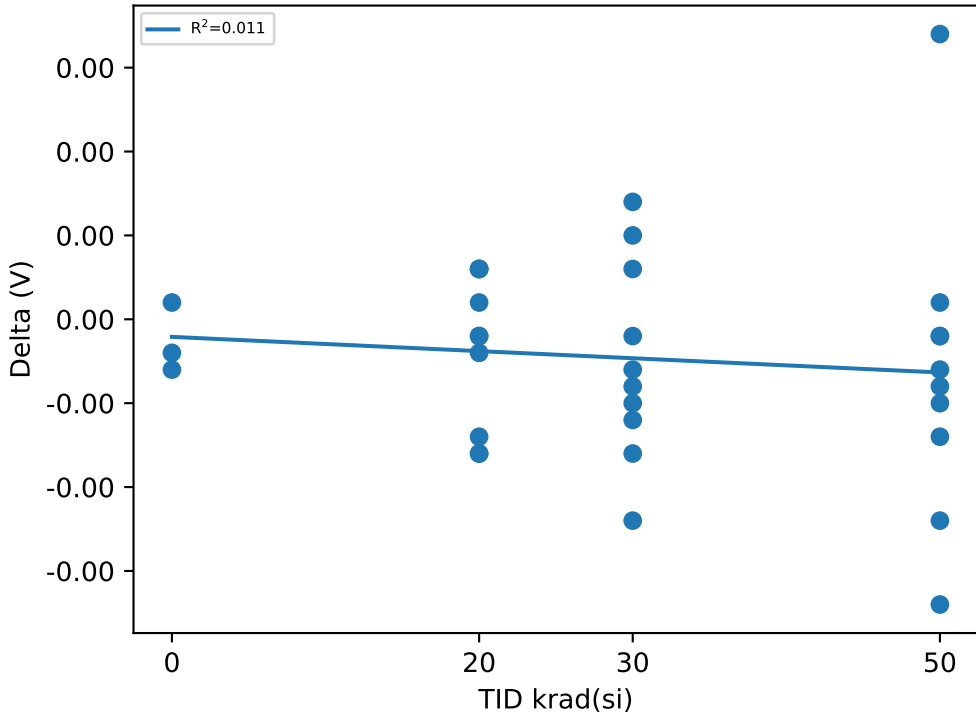
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2258	-0.0008
22	20	HDR BIAS	1.2225	1.2228	0.0003
23	20	HDR BIAS	1.2213	1.2212	-0.0001
24	20	HDR BIAS	1.2225	1.2224	-0.0001
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.224	1.2241	0.0001
28	20	HDR UNBIAS	1.2218	1.2216	-0.0002
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2257	1.2249	-0.0008
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2227	1.2232	0.0005
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.2239	1.2242	0.0003
40	30	HDR UNBIAS	1.2244	1.224	-0.0004
41	50	HDR BIAS	1.2236	1.2219	-0.0017
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2214	1.2213	-0.0001
46	50	HDR UNBIAS	1.2228	1.2245	0.0017
47	50	HDR UNBIAS	1.224	1.2235	-0.0005
48	50	HDR UNBIAS	1.2247	1.2243	-0.0004
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2233	1.223	-0.0003
72	0	CORRELATION	1.2246	1.2244	-0.0002
73	0	CORRELATION	1.224	1.2241	0.0001

TID vs Post - Pre Exposure Delta

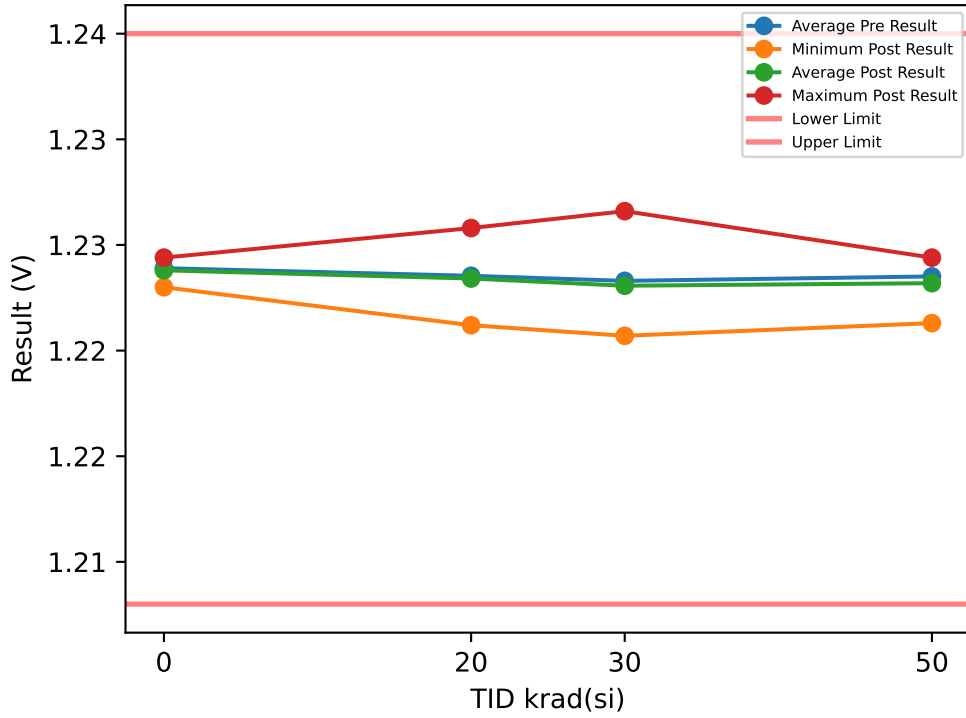


Test Statistics (V)

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	1.2233	1.224	1.2246	0.00065064	1.223	1.2238	1.2244	0.00073711	-0.0003	-0.00013333	0.0001	0.00020817
20	1.2213	1.2236	1.2266	0.0018655	1.2212	1.2234	1.2258	0.0016499	-0.0008	-0.00017	0.0003	0.00044981
30	1.2206	1.2234	1.2271	0.0020533	1.2207	1.2231	1.2266	0.0019566	-0.0012	-0.00024	0.0007	0.00059666
50	1.2214	1.2236	1.2251	0.0010518	1.2213	1.2233	1.2245	0.001071	-0.0017	-0.00032	0.0017	0.00089542

# Device Test: 21.43 VOLTAGE|VREF/VREF/5/5/0/1000/5/1MHz//@V\_REFCAP

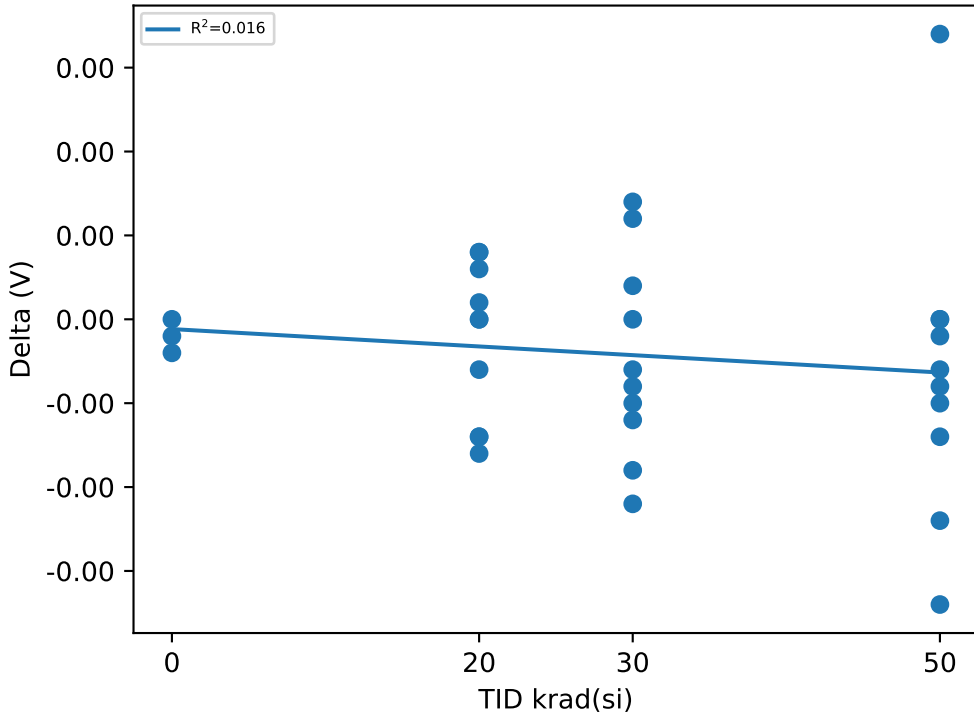
## TID vs Result Stats



## Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2265	1.2258	-0.0007
22	20	HDR BIAS	1.2224	1.2228	0.0004
23	20	HDR BIAS	1.2212	1.2212	0
24	20	HDR BIAS	1.2224	1.2224	0
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.224	1.2241	0.0001
28	20	HDR UNBIAS	1.2218	1.2215	-0.0003
29	20	HDR UNBIAS	1.2245	1.2237	-0.0008
30	20	HDR UNBIAS	1.2217	1.2221	0.0004
31	30	HDR BIAS	1.2256	1.2247	-0.0009
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2218	1.2218	0
35	30	HDR BIAS	1.2226	1.2232	0.0006
36	30	HDR UNBIAS	1.2205	1.2212	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2218	1.2207	-0.0011
39	30	HDR UNBIAS	1.2239	1.2241	0.0002
40	30	HDR UNBIAS	1.2243	1.2239	-0.0004
41	50	HDR BIAS	1.2235	1.2218	-0.0017
42	50	HDR BIAS	1.223	1.223	0
43	50	HDR BIAS	1.224	1.2237	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2213	1.2213	0
46	50	HDR UNBIAS	1.2227	1.2244	0.0017
47	50	HDR UNBIAS	1.2238	1.2234	-0.0004
48	50	HDR UNBIAS	1.2247	1.2242	-0.0005
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2231	1.223	-0.0001
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2245	1.2244	-0.0001
73	0	CORRELATION	1.224	1.224	0

## TID vs Post - Pre Exposure Delta

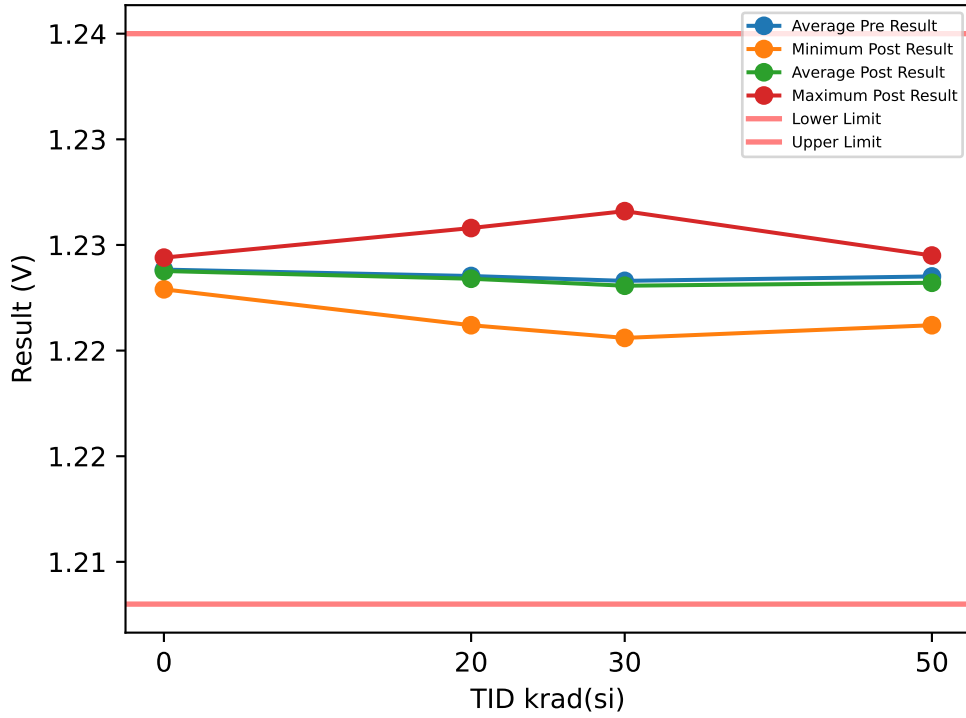


## Test Statistics (V)

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	1.2232	1.2239	1.2245	0.00065574	1.223	1.2238	1.2244	0.00072111	-0.0002	-0.0001	0	0.0001
20	1.2212	1.2235	1.2265	0.0018798	1.2212	1.2234	1.2258	0.0016603	-0.0008	-0.00013	0.0004	0.00046679
30	1.2205	1.2233	1.2271	0.0020699	1.2207	1.2231	1.2266	0.0019368	-0.0011	-0.00023	0.0007	0.00060009
50	1.2213	1.2235	1.2251	0.0010744	1.2213	1.2232	1.2244	0.0010577	-0.0017	-0.00032	0.0017	0.00089418

Device Test: 21.45 VOLTAGE|VREF/VREF/12/12/0/1000/5/1MHz//@V\_REFCAP

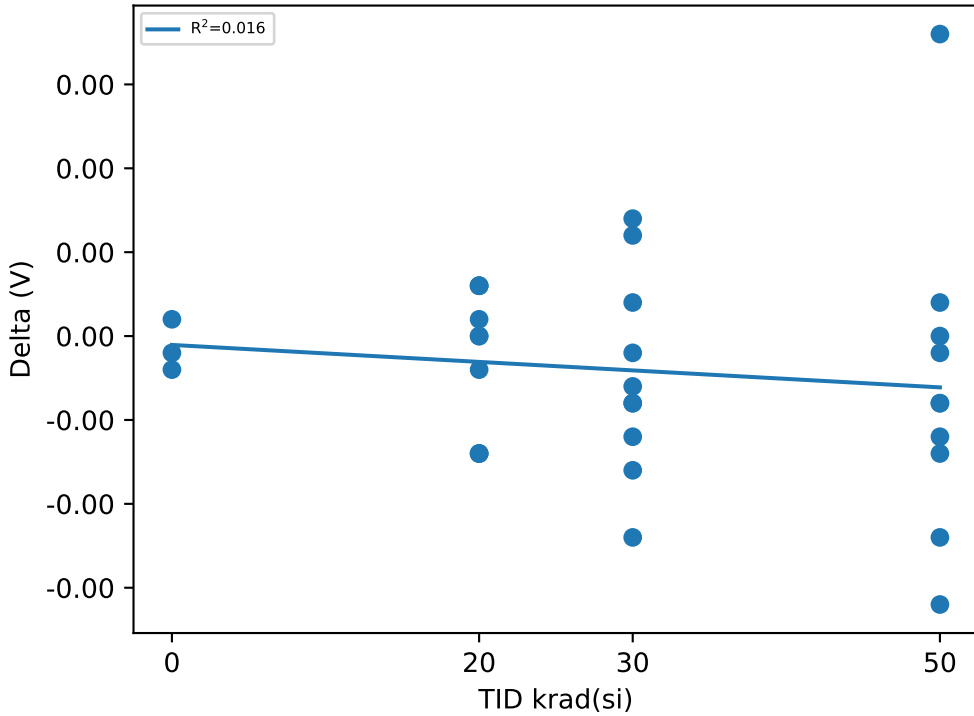
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2265	1.2258	-0.0007
22	20	HDR BIAS	1.2225	1.2228	0.0003
23	20	HDR BIAS	1.2212	1.2212	0
24	20	HDR BIAS	1.2224	1.2224	0
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.2239	1.224	0.0001
28	20	HDR UNBIAS	1.2217	1.2215	-0.0002
29	20	HDR UNBIAS	1.2245	1.2238	-0.0007
30	20	HDR UNBIAS	1.2217	1.222	0.0003
31	30	HDR BIAS	1.2256	1.2248	-0.0008
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2212	1.2206	-0.0006
34	30	HDR BIAS	1.2218	1.2217	-0.0001
35	30	HDR BIAS	1.2226	1.2232	0.0006
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.227	1.2266	-0.0004
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.2239	1.2241	0.0002
40	30	HDR UNBIAS	1.2243	1.2239	-0.0004
41	50	HDR BIAS	1.2234	1.2218	-0.0016
42	50	HDR BIAS	1.2229	1.2231	0.0002
43	50	HDR BIAS	1.2241	1.2237	-0.0004
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2213	1.2212	-0.0001
46	50	HDR UNBIAS	1.2227	1.2245	0.0018
47	50	HDR UNBIAS	1.2239	1.2235	-0.0004
48	50	HDR UNBIAS	1.2247	1.2241	-0.0006
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2231	1.2231	0
71	0	CORRELATION	1.2231	1.2229	-0.0002
72	0	CORRELATION	1.2245	1.2244	-0.0001
73	0	CORRELATION	1.2239	1.224	0.0001

TID vs Post - Pre Exposure Delta

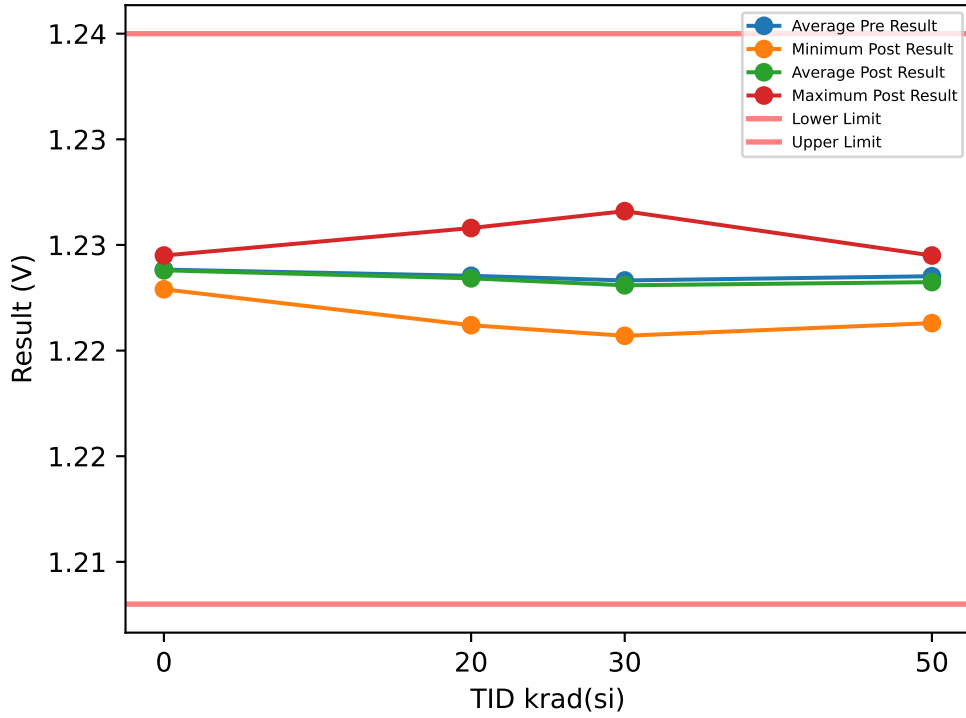


Test Statistics (V)

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	1.2231	1.2238	1.2245	0.00070238	1.2229	1.2238	1.2244	0.00077675	-0.0002	-6.6667e-05	0.0001	0.00015275
20	1.2212	1.2235	1.2265	0.0018815	1.2212	1.2234	1.2258	0.0016673	-0.0007	-0.00013	0.0003	0.00042439
30	1.2206	1.2233	1.227	0.002038	1.2206	1.2231	1.2266	0.0019574	-0.0012	-0.00023	0.0007	0.00059824
50	1.2213	1.2235	1.2251	0.0010898	1.2212	1.2232	1.2245	0.0010806	-0.0016	-0.0003	0.0018	0.00091652

# Device Test: 21.47 VOLTAGE|VREF/VREF/14/14/0/1000/5/1MHz//@V\_REFCAP

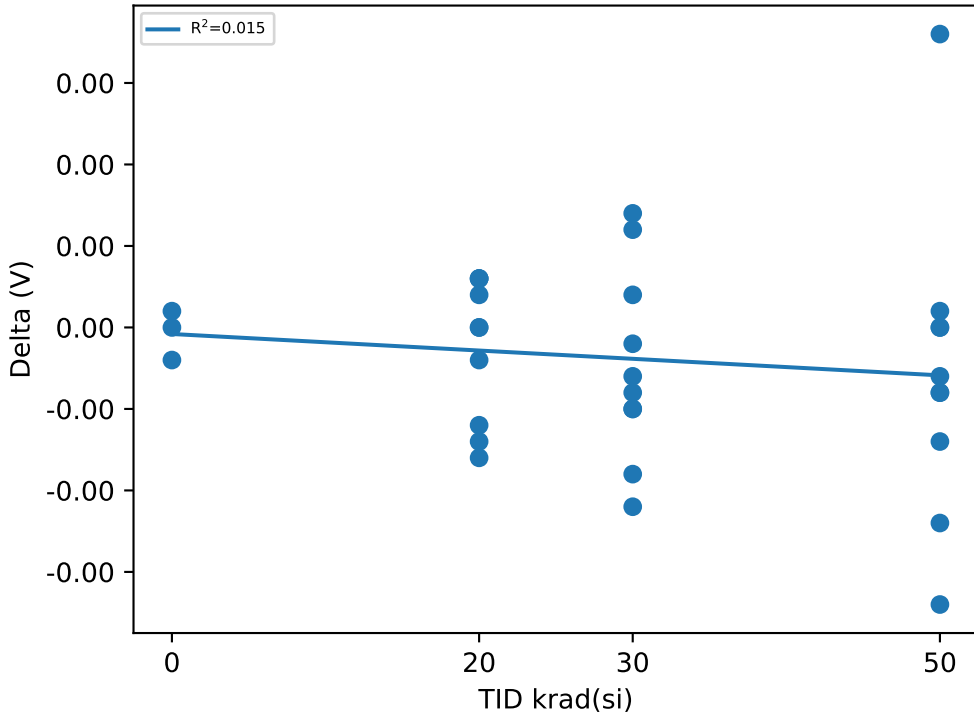
## TID vs Result Stats



## Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2265	1.2258	-0.0007
22	20	HDR BIAS	1.2225	1.2228	0.0003
23	20	HDR BIAS	1.2212	1.2212	0
24	20	HDR BIAS	1.2224	1.2224	0
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.2251	-0.0006
27	20	HDR UNBIAS	1.2239	1.2241	0.0002
28	20	HDR UNBIAS	1.2217	1.2215	-0.0002
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2217	1.222	0.0003
31	30	HDR BIAS	1.2257	1.2248	-0.0009
32	30	HDR BIAS	1.2241	1.2238	-0.0003
33	30	HDR BIAS	1.2212	1.2207	-0.0005
34	30	HDR BIAS	1.2218	1.2217	-0.0001
35	30	HDR BIAS	1.2226	1.2232	0.0006
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2208	-0.0011
39	30	HDR UNBIAS	1.2239	1.2241	0.0002
40	30	HDR UNBIAS	1.2243	1.2239	-0.0004
41	50	HDR BIAS	1.2235	1.2218	-0.0017
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.2239	1.2227	-0.0012
45	50	HDR BIAS	1.2213	1.2213	0
46	50	HDR UNBIAS	1.2227	1.2245	0.0018
47	50	HDR UNBIAS	1.2239	1.2235	-0.0004
48	50	HDR UNBIAS	1.2246	1.2242	-0.0004
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2231	1.2231	0
71	0	CORRELATION	1.2231	1.2229	-0.0002
72	0	CORRELATION	1.2245	1.2245	0
73	0	CORRELATION	1.2239	1.224	0.0001

## TID vs Post - Pre Exposure Delta

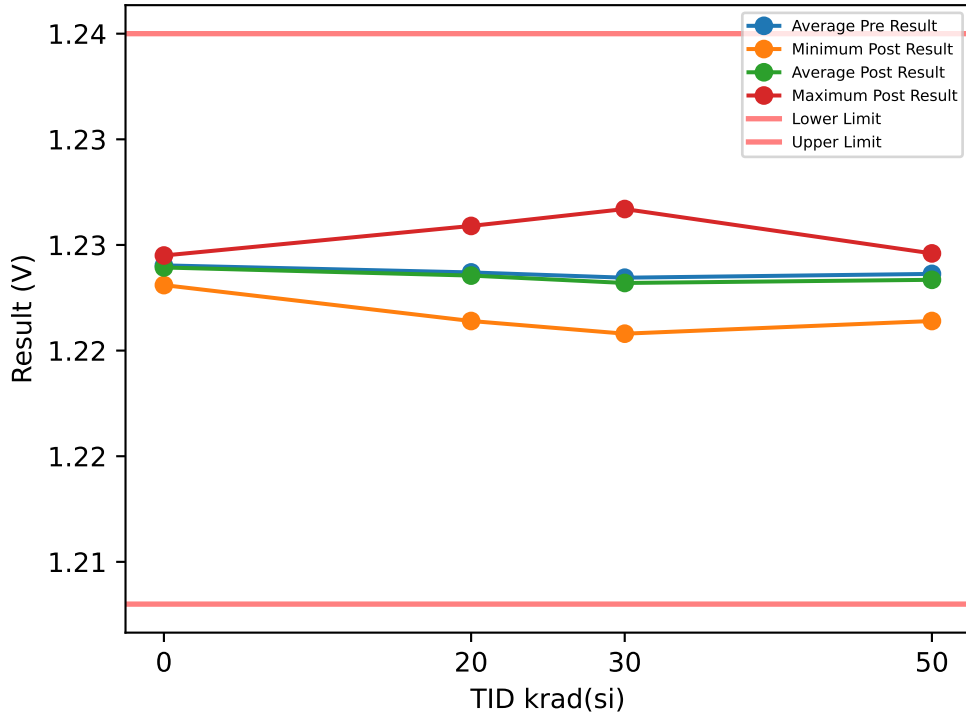


## Test Statistics (V)

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	1.2231	1.2238	1.2245	0.00070238	1.2229	1.2238	1.2245	0.00081854	-0.0002	-3.3333e-05	0.0001	0.00015275
20	1.2212	1.2235	1.2265	0.0018875	1.2212	1.2234	1.2258	0.0016825	-0.0008	-0.00012	0.0003	0.0004341
30	1.2206	1.2233	1.2271	0.0020709	1.2207	1.2231	1.2266	0.0019301	-0.0011	-0.00023	0.0007	0.00059076
50	1.2213	1.2235	1.2251	0.0010717	1.2213	1.2232	1.2245	0.0010752	-0.0017	-0.00028	0.0018	0.00092472

# Device Test: 21.5 VOLTAGE|VREF/VREF/12/12/0/0/5/100kHz//@V\_REFCAP

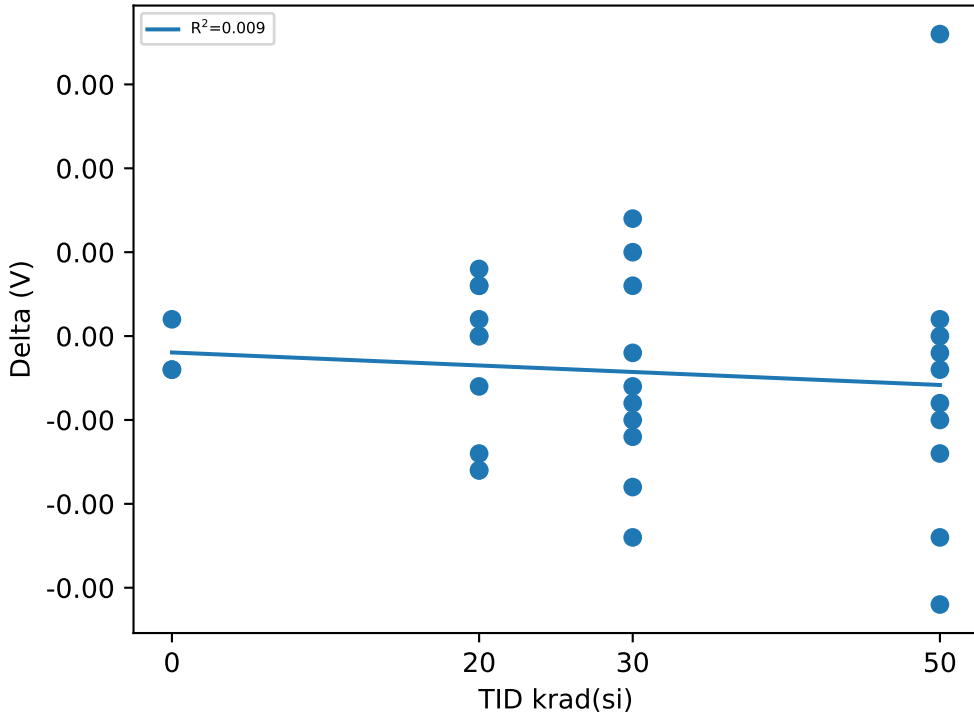
## TID vs Result Stats



## Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2267	1.2259	-0.0008
22	20	HDR BIAS	1.2226	1.223	0.0004
23	20	HDR BIAS	1.2214	1.2214	0
24	20	HDR BIAS	1.2226	1.2226	0
25	20	HDR BIAS	1.2253	1.2256	0.0003
26	20	HDR UNBIAS	1.2258	1.2251	-0.0007
27	20	HDR UNBIAS	1.2241	1.2242	0.0001
28	20	HDR UNBIAS	1.2219	1.2216	-0.0003
29	20	HDR UNBIAS	1.2247	1.2239	-0.0008
30	20	HDR UNBIAS	1.2219	1.2222	0.0003
31	30	HDR BIAS	1.2258	1.2249	-0.0009
32	30	HDR BIAS	1.2242	1.2239	-0.0003
33	30	HDR BIAS	1.2214	1.2208	-0.0006
34	30	HDR BIAS	1.222	1.2219	-0.0001
35	30	HDR BIAS	1.2228	1.2233	0.0005
36	30	HDR UNBIAS	1.2207	1.2214	0.0007
37	30	HDR UNBIAS	1.2272	1.2267	-0.0005
38	30	HDR UNBIAS	1.222	1.2208	-0.0012
39	30	HDR UNBIAS	1.224	1.2243	0.0003
40	30	HDR UNBIAS	1.2244	1.224	-0.0004
41	50	HDR BIAS	1.2236	1.222	-0.0016
42	50	HDR BIAS	1.2231	1.2232	0.0001
43	50	HDR BIAS	1.2241	1.2239	-0.0002
44	50	HDR BIAS	1.224	1.2228	-0.0012
45	50	HDR BIAS	1.2215	1.2214	-0.0001
46	50	HDR UNBIAS	1.2228	1.2246	0.0018
47	50	HDR UNBIAS	1.224	1.2236	-0.0004
48	50	HDR UNBIAS	1.2248	1.2243	-0.0005
49	50	HDR UNBIAS	1.2252	1.2245	-0.0007
50	50	HDR UNBIAS	1.2232	1.2232	0
71	0	CORRELATION	1.2233	1.2231	-0.0002
72	0	CORRELATION	1.2247	1.2245	-0.0002
73	0	CORRELATION	1.2241	1.2242	0.0001

## TID vs Post - Pre Exposure Delta

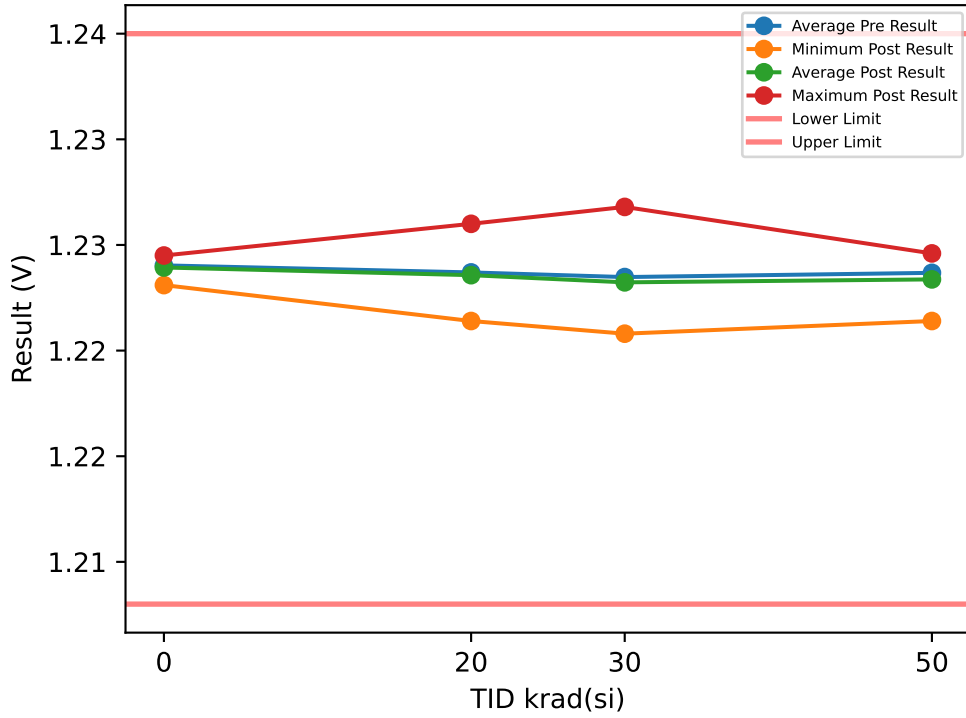


## Test Statistics (V)

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	1.2233	1.224	1.2247	0.00070238	1.2231	1.2239	1.2245	0.00073711	-0.0002	-0.0001	0.0001	0.00017321
20	1.2214	1.2237	1.2267	0.0018655	1.2214	1.2235	1.2259	0.0016372	-0.0008	-0.00015	0.0004	0.00046963
30	1.2207	1.2235	1.2272	0.0020479	1.2208	1.2232	1.2267	0.0019419	-0.0012	-0.00025	0.0007	0.00060782
50	1.2215	1.2236	1.2252	0.0010552	1.2214	1.2233	1.2246	0.0010607	-0.0016	-0.00028	0.0018	0.00090774

# Device Test: 21.7 VOLTAGE|VREF/VREF/14/14/0/0/5/100kHz//@V\_REFCAP

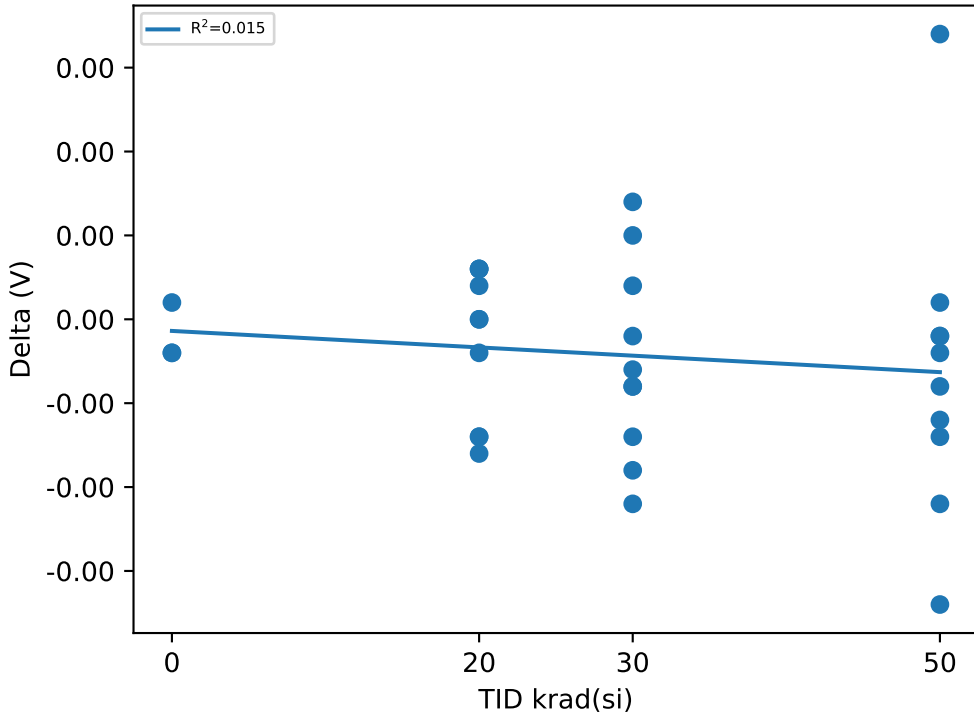
## TID vs Result Stats



## Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2267	1.226	-0.0007
22	20	HDR BIAS	1.2226	1.2229	0.0003
23	20	HDR BIAS	1.2214	1.2214	0
24	20	HDR BIAS	1.2226	1.2226	0
25	20	HDR BIAS	1.2253	1.2256	0.0003
26	20	HDR UNBIAS	1.2258	1.2251	-0.0007
27	20	HDR UNBIAS	1.2241	1.2243	0.0002
28	20	HDR UNBIAS	1.2219	1.2217	-0.0002
29	20	HDR UNBIAS	1.2247	1.2239	-0.0008
30	20	HDR UNBIAS	1.2219	1.2222	0.0003
31	30	HDR BIAS	1.2258	1.2249	-0.0009
32	30	HDR BIAS	1.2242	1.2239	-0.0003
33	30	HDR BIAS	1.2215	1.2208	-0.0007
34	30	HDR BIAS	1.222	1.2219	-0.0001
35	30	HDR BIAS	1.2228	1.2233	0.0005
36	30	HDR UNBIAS	1.2207	1.2214	0.0007
37	30	HDR UNBIAS	1.2272	1.2268	-0.0004
38	30	HDR UNBIAS	1.222	1.2209	-0.0011
39	30	HDR UNBIAS	1.2241	1.2243	0.0002
40	30	HDR UNBIAS	1.2245	1.2241	-0.0004
41	50	HDR BIAS	1.2237	1.222	-0.0017
42	50	HDR BIAS	1.2231	1.2232	0.0001
43	50	HDR BIAS	1.2241	1.2239	-0.0002
44	50	HDR BIAS	1.224	1.2229	-0.0011
45	50	HDR BIAS	1.2215	1.2214	-0.0001
46	50	HDR UNBIAS	1.2229	1.2246	0.0017
47	50	HDR UNBIAS	1.224	1.2236	-0.0004
48	50	HDR UNBIAS	1.2249	1.2243	-0.0006
49	50	HDR UNBIAS	1.2253	1.2246	-0.0007
50	50	HDR UNBIAS	1.2233	1.2232	-0.0001
71	0	CORRELATION	1.2233	1.2231	-0.0002
72	0	CORRELATION	1.2247	1.2245	-0.0002
73	0	CORRELATION	1.2241	1.2242	0.0001

## TID vs Post - Pre Exposure Delta



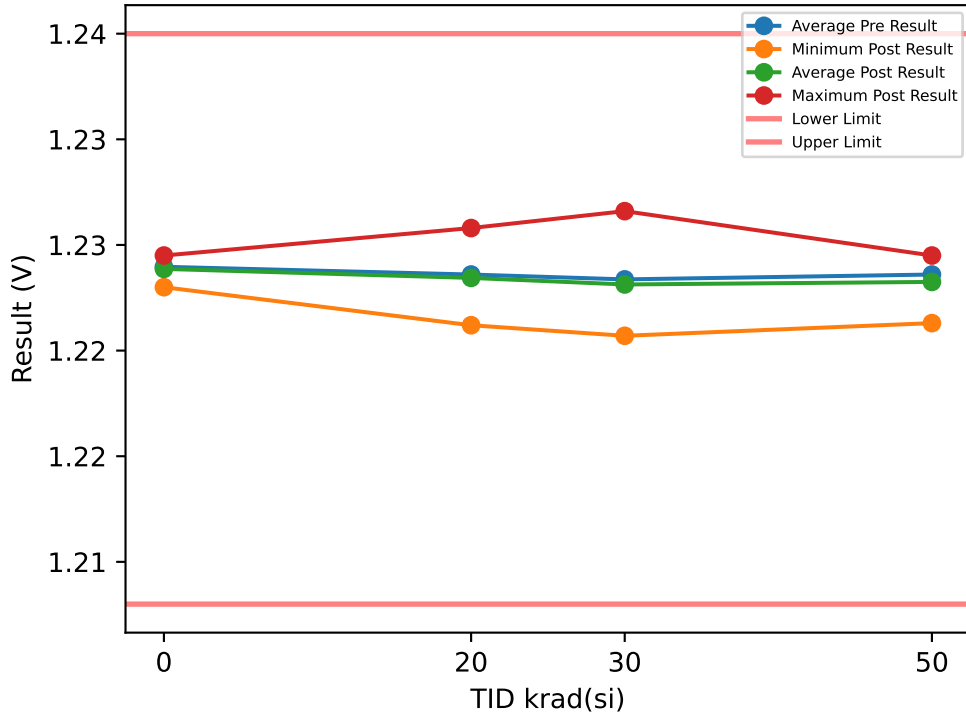
## Test Statistics (V)

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	1.2233	1.224	1.2247	0.00070238	1.2231	1.2239	1.2245	0.00073711	-0.0002	-0.0001	0.0001	0.00017321
20	1.2214	1.2237	1.2267	0.0018655	1.2214	1.2236	1.226	0.0016493	-0.0008	-0.00013	0.0003	0.00044734
30	1.2207	1.2235	1.2272	0.0020455	1.2208	1.2232	1.2268	0.0019534	-0.0011	-0.00025	0.0007	0.00058547
50	1.2215	1.2237	1.2253	0.0010717	1.2214	1.2234	1.2246	0.0010678	-0.0017	-0.00031	0.0017	0.00088876



Device Test: 21.9 VOLTAGE|VREF/VREF/4.5/4.5/0/0/4.5/500kHz//@V\_REFCAP

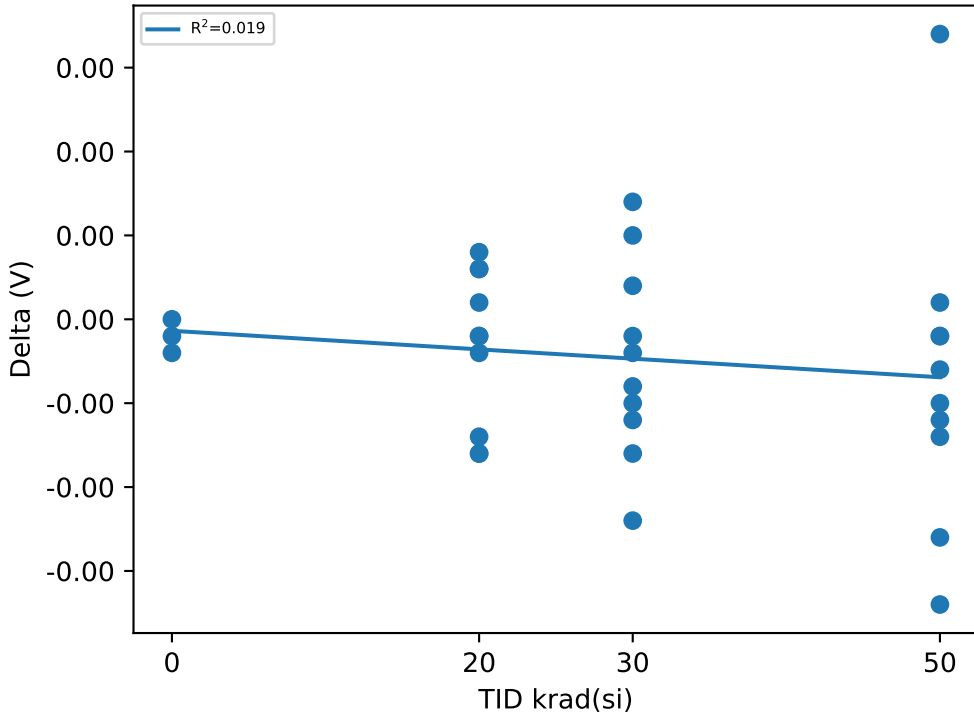
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2266	1.2258	-0.0008
22	20	HDR BIAS	1.2225	1.2229	0.0004
23	20	HDR BIAS	1.2213	1.2212	-0.0001
24	20	HDR BIAS	1.2225	1.2224	-0.0001
25	20	HDR BIAS	1.2252	1.2255	0.0003
26	20	HDR UNBIAS	1.2257	1.225	-0.0007
27	20	HDR UNBIAS	1.224	1.2241	0.0001
28	20	HDR UNBIAS	1.2218	1.2216	-0.0002
29	20	HDR UNBIAS	1.2246	1.2238	-0.0008
30	20	HDR UNBIAS	1.2218	1.2221	0.0003
31	30	HDR BIAS	1.2257	1.2249	-0.0008
32	30	HDR BIAS	1.2241	1.2239	-0.0002
33	30	HDR BIAS	1.2213	1.2207	-0.0006
34	30	HDR BIAS	1.2219	1.2218	-0.0001
35	30	HDR BIAS	1.2227	1.2232	0.0005
36	30	HDR UNBIAS	1.2206	1.2213	0.0007
37	30	HDR UNBIAS	1.2271	1.2266	-0.0005
38	30	HDR UNBIAS	1.2219	1.2207	-0.0012
39	30	HDR UNBIAS	1.224	1.2242	0.0002
40	30	HDR UNBIAS	1.2244	1.224	-0.0004
41	50	HDR BIAS	1.2236	1.2219	-0.0017
42	50	HDR BIAS	1.223	1.2231	0.0001
43	50	HDR BIAS	1.2241	1.2238	-0.0003
44	50	HDR BIAS	1.224	1.2227	-0.0013
45	50	HDR BIAS	1.2214	1.2213	-0.0001
46	50	HDR UNBIAS	1.2228	1.2245	0.0017
47	50	HDR UNBIAS	1.224	1.2235	-0.0005
48	50	HDR UNBIAS	1.2248	1.2242	-0.0006
49	50	HDR UNBIAS	1.2251	1.2244	-0.0007
50	50	HDR UNBIAS	1.2232	1.2231	-0.0001
71	0	CORRELATION	1.2232	1.223	-0.0002
72	0	CORRELATION	1.2246	1.2245	-0.0001
73	0	CORRELATION	1.2241	1.2241	0

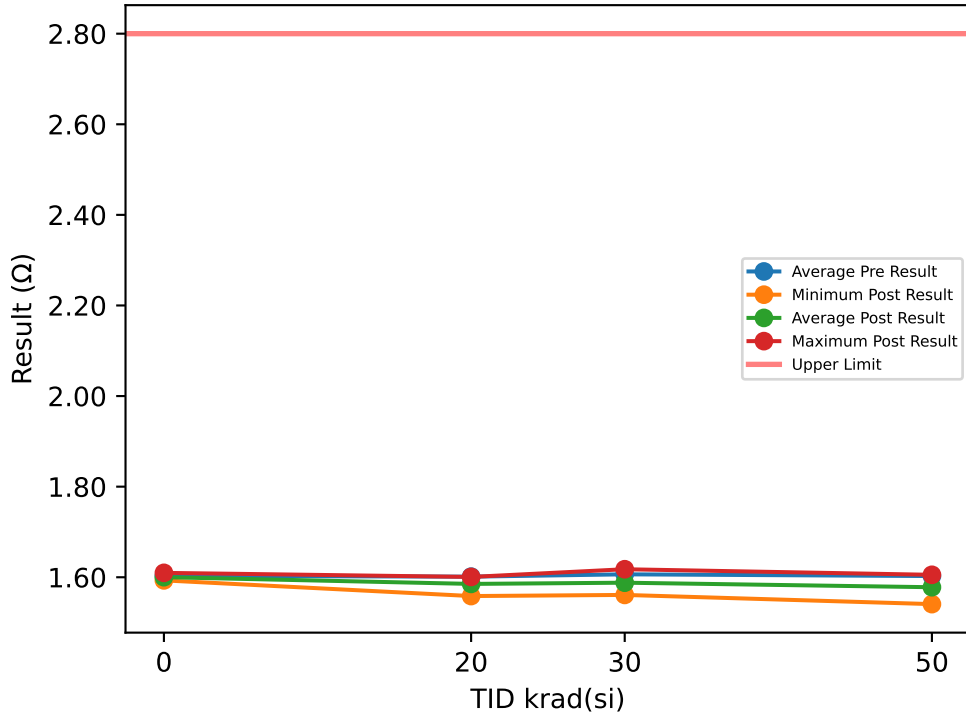
TID vs Post - Pre Exposure Delta



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	1.2232	1.224	1.2246	0.00070946	1.223	1.2239	1.2245	0.00077675	-0.0002	-0.0001	0	0.0001
20	1.2213	1.2236	1.2266	0.0018655	1.2212	1.2234	1.2258	0.001646	-0.0008	-0.00016	0.0004	0.00046236
30	1.2206	1.2234	1.2271	0.0020565	1.2207	1.2231	1.2266	0.0019608	-0.0012	-0.00024	0.0007	0.00058727
50	1.2214	1.2236	1.2251	0.0010677	1.2213	1.2232	1.2245	0.0010607	-0.0017	-0.00035	0.0017	0.00091074

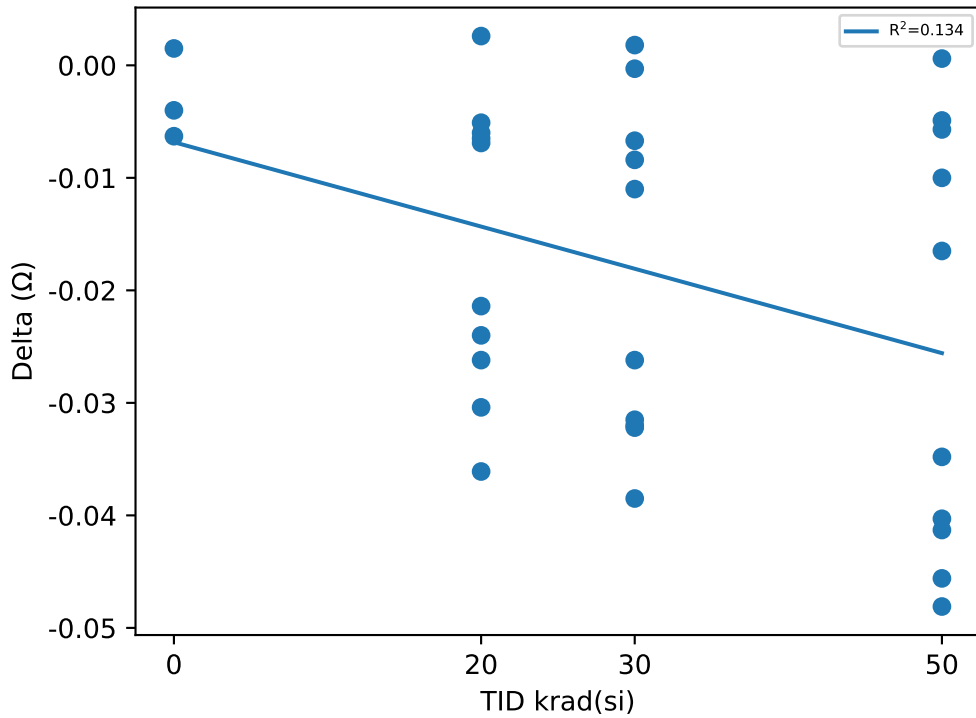
TID vs Result Stats



Test Results (Upper Limit = 2.8 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.6121	1.5859	-0.0262
22	20	HDR BIAS	1.6161	1.5921	-0.024
23	20	HDR BIAS	1.6056	1.5752	-0.0304
24	20	HDR BIAS	1.5946	1.5585	-0.0361
25	20	HDR BIAS	1.5896	1.5682	-0.0214
26	20	HDR UNBIAS	1.6058	1.6007	-0.0051
27	20	HDR UNBIAS	1.5945	1.5876	-0.0069
28	20	HDR UNBIAS	1.5912	1.5938	0.0026
29	20	HDR UNBIAS	1.6037	1.5972	-0.0065
30	20	HDR UNBIAS	1.5999	1.5939	-0.006
31	30	HDR BIAS	1.6102	1.584	-0.0262
32	30	HDR BIAS	1.6037	1.5715	-0.0322
33	30	HDR BIAS	1.5995	1.561	-0.0385
34	30	HDR BIAS	1.6127	1.5807	-0.032
35	30	HDR BIAS	1.5994	1.5679	-0.0315
36	30	HDR UNBIAS	1.6014	1.5904	-0.011
37	30	HDR UNBIAS	1.618	1.6177	-0.0003
38	30	HDR UNBIAS	1.6198	1.6114	-0.0084
39	30	HDR UNBIAS	1.6016	1.5949	-0.0067
40	30	HDR UNBIAS	1.5984	1.6002	0.0018
41	50	HDR BIAS	1.6036	1.5555	-0.0481
42	50	HDR BIAS	1.6219	1.5806	-0.0413
43	50	HDR BIAS	1.5755	1.5407	-0.0348
44	50	HDR BIAS	1.6037	1.5634	-0.0403
45	50	HDR BIAS	1.6014	1.5558	-0.0456
46	50	HDR UNBIAS	1.6049	1.5992	-0.0057
47	50	HDR UNBIAS	1.5912	1.5812	-0.01
48	50	HDR UNBIAS	1.6211	1.6046	-0.0165
49	50	HDR UNBIAS	1.6048	1.6054	0.0006
50	50	HDR UNBIAS	1.5984	1.5935	-0.0049
71	0	CORRELATION	1.6082	1.6097	0.0015
72	0	CORRELATION	1.6017	1.5977	-0.004
73	0	CORRELATION	1.5994	1.5931	-0.0063

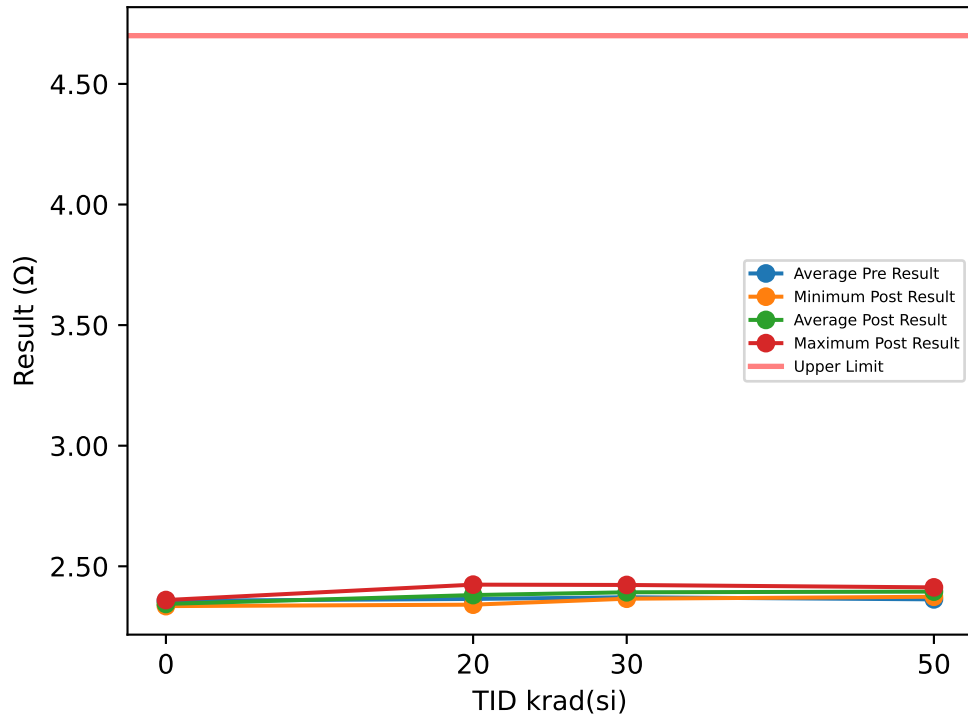
TID vs Post - Pre Exposure Delta



Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5994	1.6031	1.6082	0.004564	1.5931	1.6002	1.6097	0.0085705	-0.0063	-0.0029333	0.0015	0.0040079
20	1.5896	1.6013	1.6161	0.0088955	1.5585	1.5853	1.6007	0.013701	-0.0361	-0.016	0.0026	0.013108
30	1.5984	1.6065	1.6198	0.0080563	1.561	1.588	1.6177	0.018578	-0.0385	-0.0185	0.0018	0.015052
50	1.5755	1.6026	1.6219	0.013377	1.5407	1.578	1.6054	0.023018	-0.0481	-0.02466	0.0006	0.019096

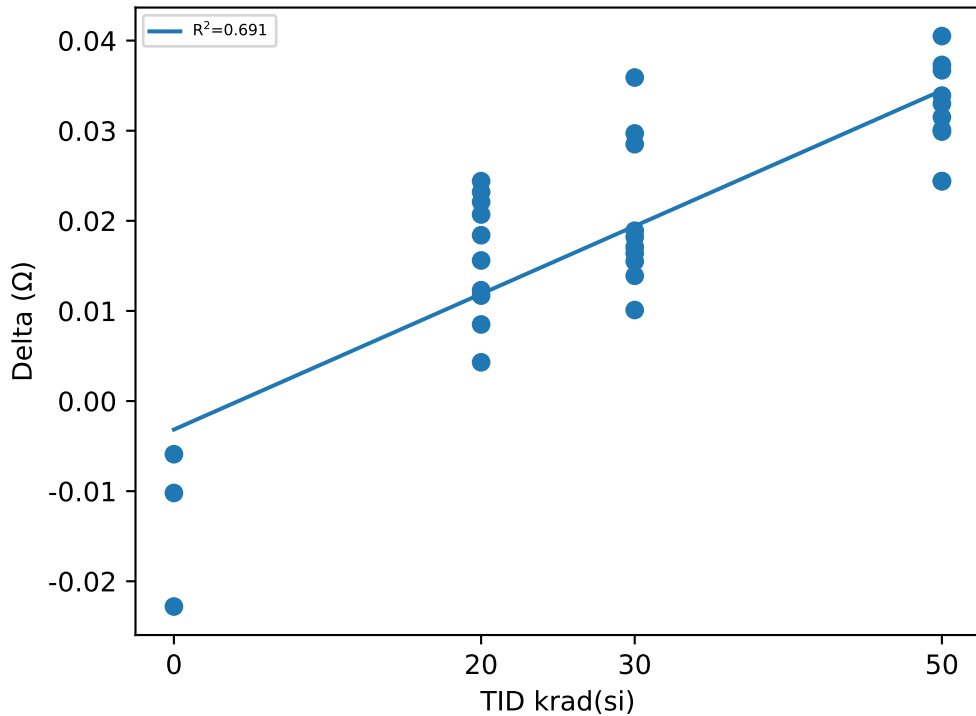
TID vs Result Stats



Test Results (Upper Limit = 4.7 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.3633	2.3789	0.0156
22	20	HDR BIAS	2.3608	2.3731	0.0123
23	20	HDR BIAS	2.3594	2.3778	0.0184
24	20	HDR BIAS	2.383	2.4037	0.0207
25	20	HDR BIAS	2.3466	2.3509	0.0043
26	20	HDR UNBIAS	2.3722	2.3839	0.0117
27	20	HDR UNBIAS	2.3808	2.4029	0.0221
28	20	HDR UNBIAS	2.3324	2.3409	0.0085
29	20	HDR UNBIAS	2.3995	2.4239	0.0244
30	20	HDR UNBIAS	2.3477	2.3709	0.0232
31	30	HDR BIAS	2.4071	2.4226	0.0155
32	30	HDR BIAS	2.3827	2.4124	0.0297
33	30	HDR BIAS	2.3413	2.3772	0.0359
34	30	HDR BIAS	2.3485	2.3656	0.0171
35	30	HDR BIAS	2.3703	2.3892	0.0189
36	30	HDR UNBIAS	2.3642	2.3824	0.0182
37	30	HDR UNBIAS	2.3575	2.3739	0.0164
38	30	HDR UNBIAS	2.3853	2.3992	0.0139
39	30	HDR UNBIAS	2.3743	2.4028	0.0285
40	30	HDR UNBIAS	2.3865	2.3966	0.0101
41	50	HDR BIAS	2.3728	2.4029	0.0301
42	50	HDR BIAS	2.3759	2.4098	0.0339
43	50	HDR BIAS	2.3493	2.3737	0.0244
44	50	HDR BIAS	2.3753	2.4126	0.0373
45	50	HDR BIAS	2.3633	2.4	0.0367
46	50	HDR UNBIAS	2.382	2.4064	0.0244
47	50	HDR UNBIAS	2.3569	2.3868	0.0299
48	50	HDR UNBIAS	2.3564	2.3879	0.0315
49	50	HDR UNBIAS	2.3468	2.3798	0.033
50	50	HDR UNBIAS	2.35	2.3905	0.0405
71	0	CORRELATION	2.3596	2.3368	-0.0228
72	0	CORRELATION	2.3408	2.3349	-0.0059
73	0	CORRELATION	2.3703	2.3601	-0.0102

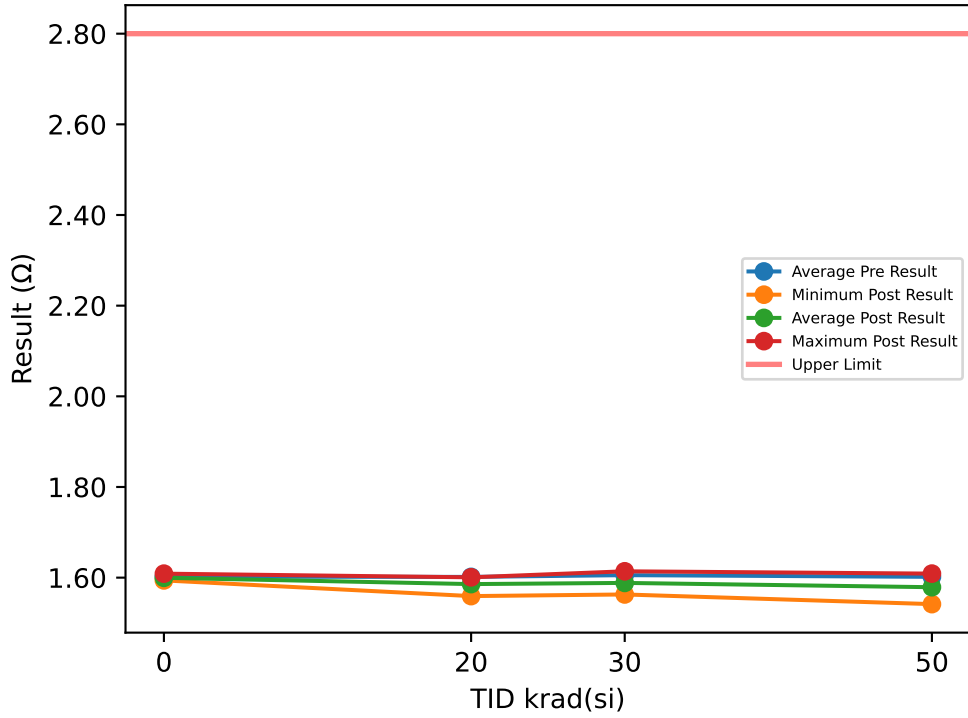
TID vs Post - Pre Exposure Delta



Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3408	2.3569	2.3703	0.014934	2.3349	2.3439	2.3601	0.014033	-0.0228	-0.012967	-0.0059	0.0087831
20	2.3324	2.3646	2.3995	0.019906	2.3409	2.3807	2.4239	0.024801	0.0043	0.01612	0.0244	0.0067725
30	2.3413	2.3718	2.4071	0.01974	2.3656	2.3922	2.4226	0.017905	0.0101	0.02042	0.0359	0.008156
50	2.3468	2.3629	2.382	0.0128	2.3737	2.395	2.4126	0.013203	0.0244	0.03217	0.0405	0.0052762

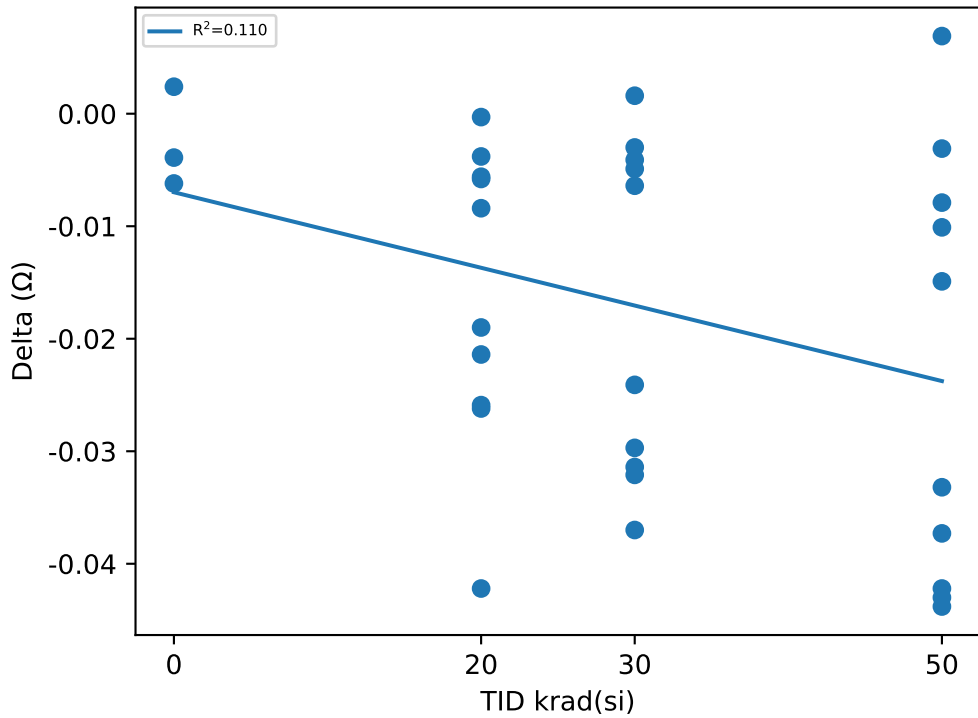
TID vs Result Stats



Test Results (Upper Limit = 2.8 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.6104	1.5842	-0.0262
22	20	HDR BIAS	1.6126	1.5912	-0.0214
23	20	HDR BIAS	1.6072	1.5813	-0.0259
24	20	HDR BIAS	1.6015	1.5593	-0.0422
25	20	HDR BIAS	1.5879	1.5689	-0.019
26	20	HDR UNBIAS	1.6047	1.5991	-0.0056
27	20	HDR UNBIAS	1.5955	1.5897	-0.0058
28	20	HDR UNBIAS	1.5915	1.5912	-0.0003
29	20	HDR UNBIAS	1.6045	1.6007	-0.0038
30	20	HDR UNBIAS	1.6006	1.5922	-0.0084
31	30	HDR BIAS	1.6081	1.584	-0.0241
32	30	HDR BIAS	1.602	1.5706	-0.0314
33	30	HDR BIAS	1.5999	1.5629	-0.037
34	30	HDR BIAS	1.6136	1.5815	-0.0321
35	30	HDR BIAS	1.5976	1.5679	-0.0297
36	30	HDR UNBIAS	1.598	1.5931	-0.0049
37	30	HDR UNBIAS	1.617	1.614	-0.003
38	30	HDR UNBIAS	1.6179	1.6115	-0.0064
39	30	HDR UNBIAS	1.6006	1.5965	-0.0041
40	30	HDR UNBIAS	1.6002	1.6018	0.0016
41	50	HDR BIAS	1.602	1.5582	-0.0438
42	50	HDR BIAS	1.622	1.579	-0.043
43	50	HDR BIAS	1.5748	1.5416	-0.0332
44	50	HDR BIAS	1.6001	1.5628	-0.0373
45	50	HDR BIAS	1.5998	1.5576	-0.0422
46	50	HDR UNBIAS	1.6053	1.5974	-0.0079
47	50	HDR UNBIAS	1.5903	1.5802	-0.0101
48	50	HDR UNBIAS	1.6229	1.608	-0.0149
49	50	HDR UNBIAS	1.602	1.6089	0.0069
50	50	HDR UNBIAS	1.5984	1.5953	-0.0031
71	0	CORRELATION	1.6064	1.6088	0.0024
72	0	CORRELATION	1.6024	1.5962	-0.0062
73	0	CORRELATION	1.5978	1.5939	-0.0039

TID vs Post - Pre Exposure Delta

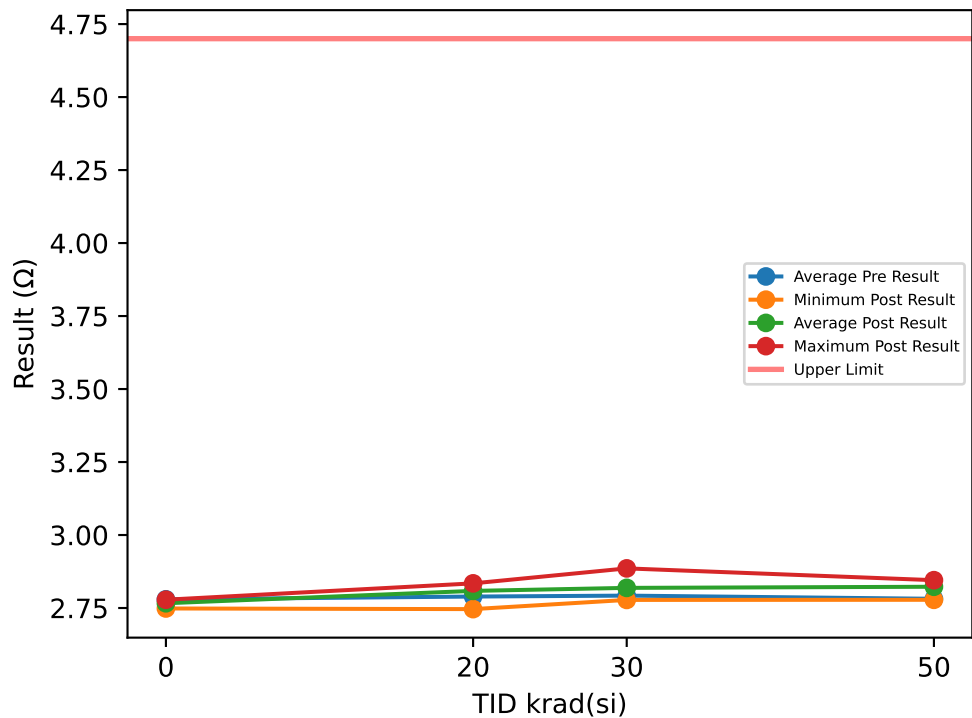


Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5978	1.6022	1.6064	0.0043035	1.5939	1.5996	1.6088	0.0080214	-0.0062	-0.0025667	0.0024	0.0044523
20	1.5879	1.6016	1.6126	0.0079981	1.5593	1.5858	1.6007	0.013013	-0.0422	-0.01586	-0.0003	0.013299
30	1.5976	1.6055	1.6179	0.0079774	1.5629	1.5884	1.614	0.017983	-0.037	-0.01711	0.0016	0.01496
50	1.5748	1.6018	1.6229	0.013925	1.5416	1.5789	1.6089	0.023315	-0.0438	-0.02286	0.0069	0.019031

Device Test: 23.5 LEVEL|HS\_RDSON/OUTH/4.5/4.5/100/0/4.5/500kHz//@ROH

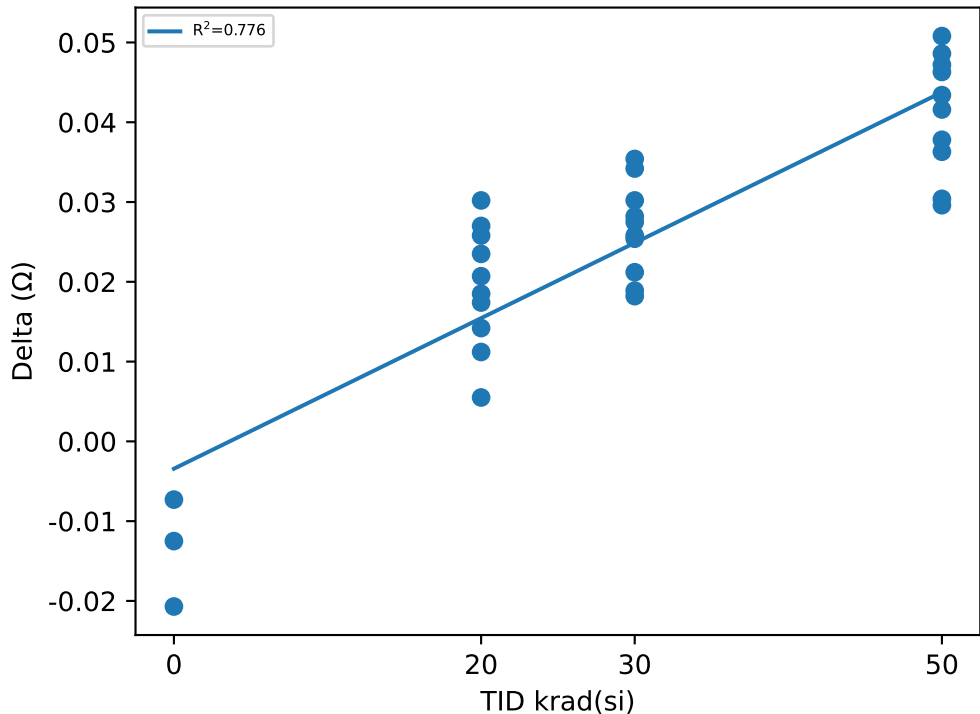
TID vs Result Stats



Test Results (Upper Limit = 4.7 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.8016	2.8274	0.0258
22	20	HDR BIAS	2.7769	2.7881	0.0112
23	20	HDR BIAS	2.8011	2.8218	0.0207
24	20	HDR BIAS	2.8042	2.8344	0.0302
25	20	HDR BIAS	2.7607	2.7749	0.0142
26	20	HDR UNBIAS	2.8109	2.8283	0.0174
27	20	HDR UNBIAS	2.8057	2.8292	0.0235
28	20	HDR UNBIAS	2.7407	2.7462	0.0055
29	20	HDR UNBIAS	2.8129	2.8314	0.0185
30	20	HDR UNBIAS	2.7776	2.8046	0.027
31	30	HDR BIAS	2.8599	2.8857	0.0258
32	30	HDR BIAS	2.8092	2.8367	0.0275
33	30	HDR BIAS	2.7507	2.7861	0.0354
34	30	HDR BIAS	2.7565	2.7777	0.0212
35	30	HDR BIAS	2.7779	2.8061	0.0282
36	30	HDR UNBIAS	2.7738	2.804	0.0302
37	30	HDR UNBIAS	2.7925	2.8114	0.0189
38	30	HDR UNBIAS	2.8011	2.8265	0.0254
39	30	HDR UNBIAS	2.7973	2.8315	0.0342
40	30	HDR UNBIAS	2.8056	2.8238	0.0182
41	50	HDR BIAS	2.7741	2.8175	0.0434
42	50	HDR BIAS	2.7999	2.8415	0.0416
43	50	HDR BIAS	2.7477	2.7781	0.0304
44	50	HDR BIAS	2.799	2.8453	0.0463
45	50	HDR BIAS	2.7901	2.8409	0.0508
46	50	HDR UNBIAS	2.8059	2.8355	0.0296
47	50	HDR UNBIAS	2.7773	2.8136	0.0363
48	50	HDR UNBIAS	2.7771	2.8257	0.0486
49	50	HDR UNBIAS	2.7768	2.8146	0.0378
50	50	HDR UNBIAS	2.768	2.8152	0.0472
71	0	CORRELATION	2.7691	2.7484	-0.0207
72	0	CORRELATION	2.7793	2.772	-0.0073
73	0	CORRELATION	2.7909	2.7784	-0.0125

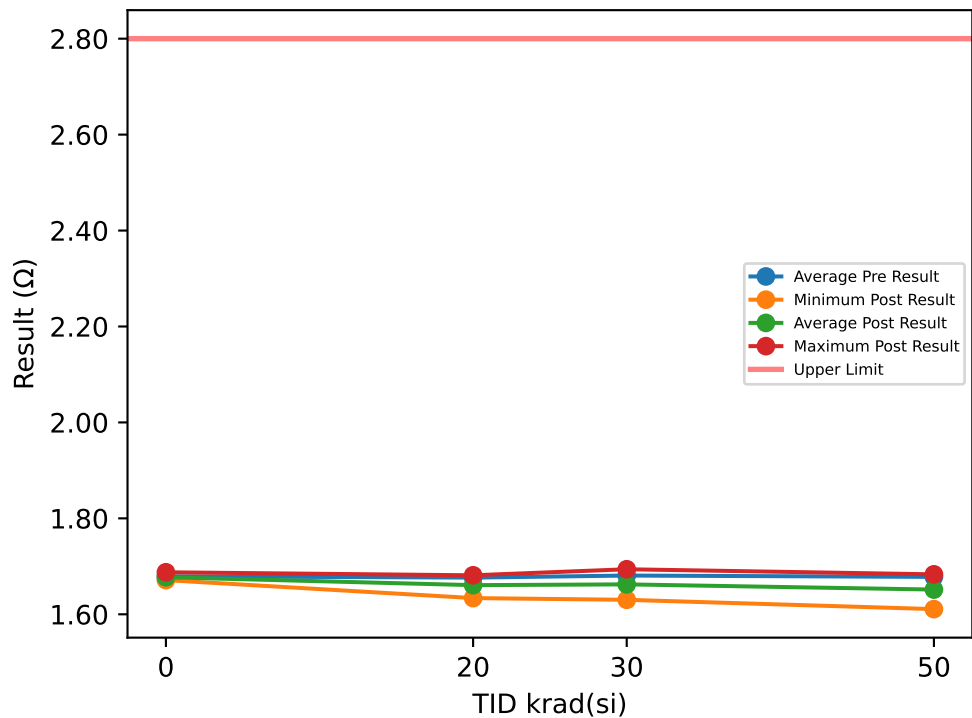
TID vs Post - Pre Exposure Delta



Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.7691	2.7798	2.7909	0.010907	2.7484	2.7663	2.7784	0.0158	-0.0207	-0.0135	-0.0073	0.0067557
20	2.7407	2.7892	2.8129	0.024211	2.7462	2.8086	2.8344	0.029798	0.0055	0.0194	0.0302	0.0076461
30	2.7507	2.7925	2.8599	0.031085	2.7777	2.819	2.8857	0.030249	0.0182	0.0265	0.0354	0.0058927
50	2.7477	2.7816	2.8059	0.017488	2.7781	2.8228	2.8453	0.01997	0.0296	0.0412	0.0508	0.0074588

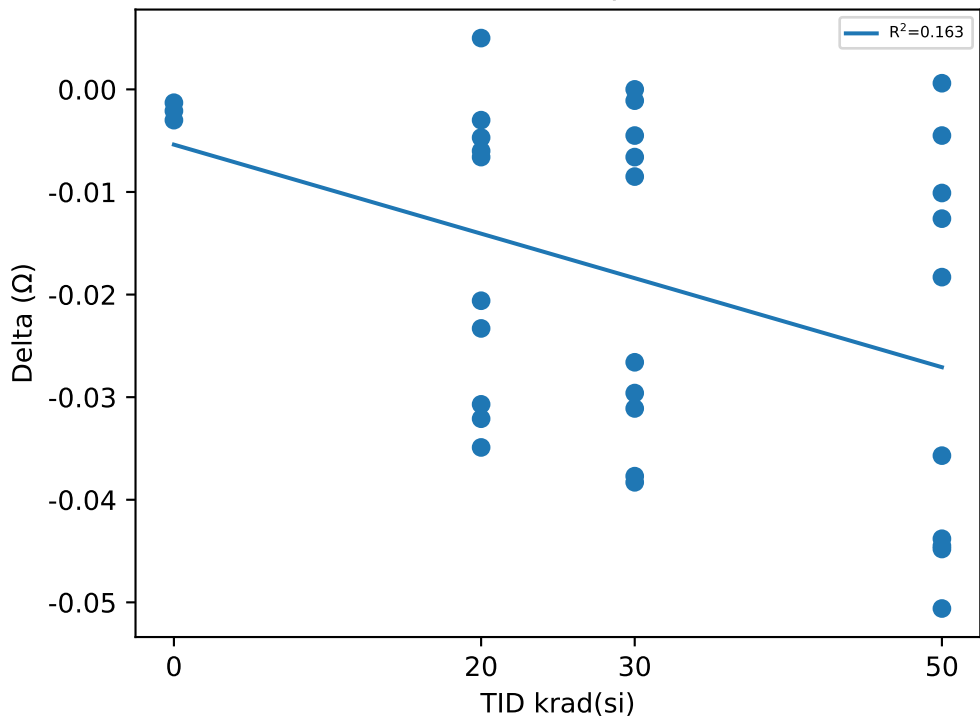
TID vs Result Stats



Test Results (Upper Limit = 2.8 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.691	1.6603	-0.0307
22	20	HDR BIAS	1.6941	1.6708	-0.0233
23	20	HDR BIAS	1.6844	1.6523	-0.0321
24	20	HDR BIAS	1.6687	1.6338	-0.0349
25	20	HDR BIAS	1.6596	1.639	-0.0206
26	20	HDR UNBIAS	1.6808	1.6778	-0.003
27	20	HDR UNBIAS	1.6671	1.6611	-0.006
28	20	HDR UNBIAS	1.6615	1.6665	0.005
29	20	HDR UNBIAS	1.686	1.6813	-0.0047
30	20	HDR UNBIAS	1.6715	1.6649	-0.0066
31	30	HDR BIAS	1.6843	1.6577	-0.0266
32	30	HDR BIAS	1.6825	1.6442	-0.0383
33	30	HDR BIAS	1.6679	1.6302	-0.0377
34	30	HDR BIAS	1.6878	1.6567	-0.0311
35	30	HDR BIAS	1.6728	1.6432	-0.0296
36	30	HDR UNBIAS	1.6696	1.663	-0.0066
37	30	HDR UNBIAS	1.695	1.6939	-0.0011
38	30	HDR UNBIAS	1.6957	1.6912	-0.0045
39	30	HDR UNBIAS	1.6778	1.6693	-0.0085
40	30	HDR UNBIAS	1.6744	1.6744	0
41	50	HDR BIAS	1.6761	1.6255	-0.0506
42	50	HDR BIAS	1.699	1.6542	-0.0448
43	50	HDR BIAS	1.6465	1.6108	-0.0357
44	50	HDR BIAS	1.6771	1.6326	-0.0445
45	50	HDR BIAS	1.6741	1.6303	-0.0438
46	50	HDR UNBIAS	1.679	1.6745	-0.0045
47	50	HDR UNBIAS	1.6701	1.6575	-0.0126
48	50	HDR UNBIAS	1.6981	1.6798	-0.0183
49	50	HDR UNBIAS	1.6827	1.6833	0.0006
50	50	HDR UNBIAS	1.6772	1.6671	-0.0101
71	0	CORRELATION	1.6897	1.6876	-0.0021
72	0	CORRELATION	1.6743	1.6713	-0.003
73	0	CORRELATION	1.6739	1.6726	-0.0013

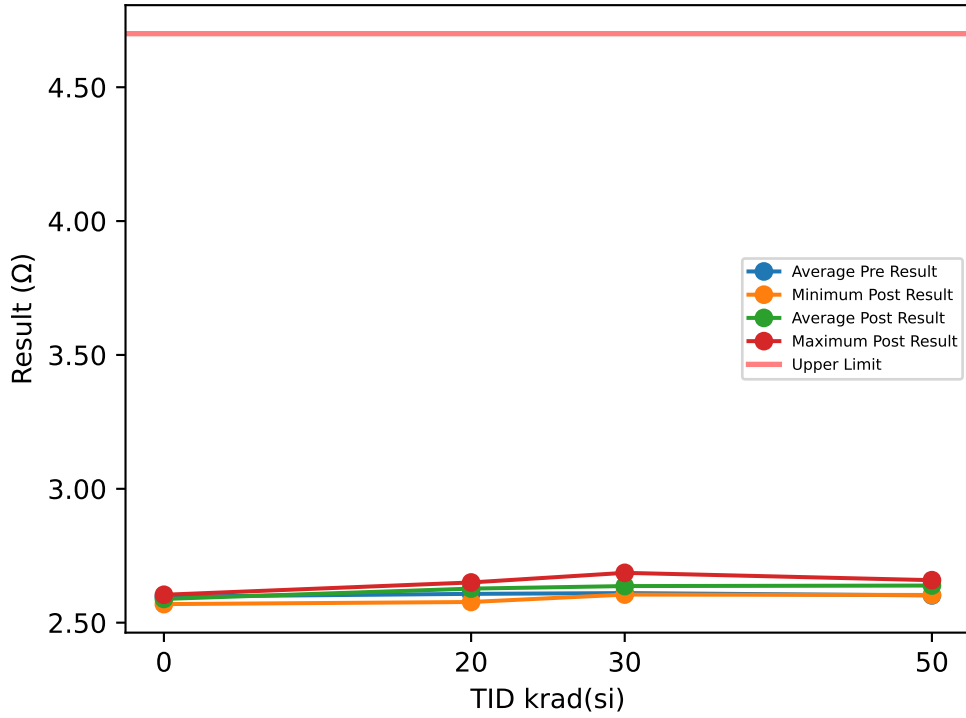
TID vs Post - Pre Exposure Delta



Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.6739	1.6793	1.6897	0.0090089	1.6713	1.6772	1.6876	0.0090589	-0.003	-0.0021333	-0.0013	0.00085049
20	1.6596	1.6765	1.6941	0.012365	1.6338	1.6608	1.6813	0.015403	-0.0349	-0.01569	0.005	0.014267
30	1.6679	1.6808	1.6957	0.0099644	1.6302	1.6624	1.6939	0.020561	-0.0383	-0.0184	0	0.015602
50	1.6465	1.678	1.699	0.014693	1.6108	1.6516	1.6833	0.025313	-0.0506	-0.02643	0.0006	0.019355

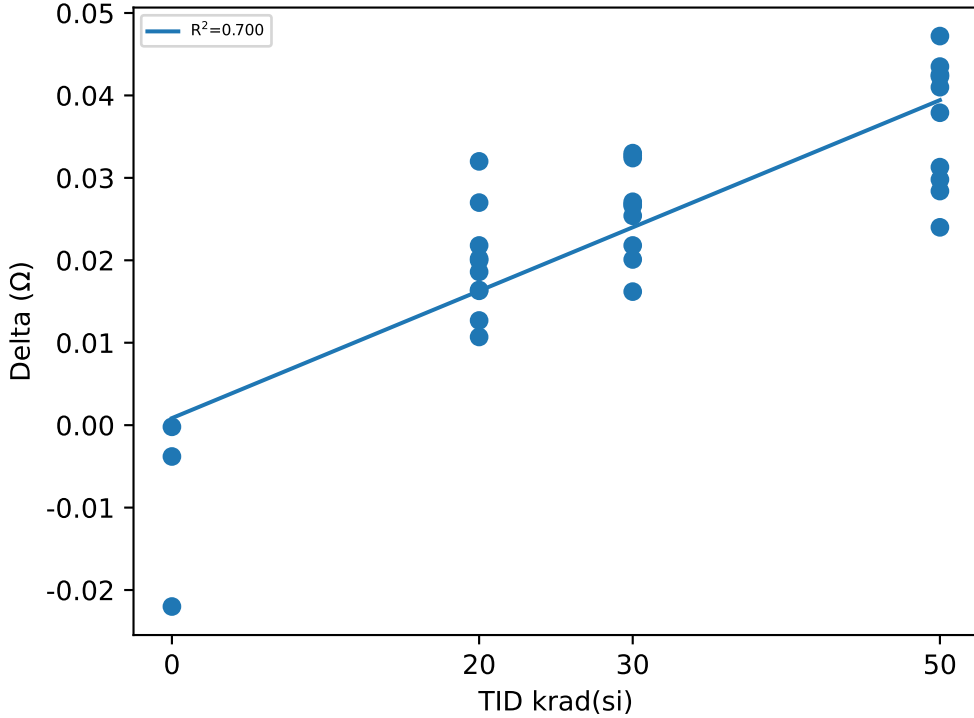
TID vs Result Stats



Test Results (Upper Limit = 4.7 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.6196	2.6396	0.02
22	20	HDR BIAS	2.5958	2.6065	0.0107
23	20	HDR BIAS	2.6191	2.6393	0.0202
24	20	HDR BIAS	2.6179	2.6499	0.032
25	20	HDR BIAS	2.5843	2.6006	0.0163
26	20	HDR UNBIAS	2.6283	2.6447	0.0164
27	20	HDR UNBIAS	2.6175	2.6445	0.027
28	20	HDR UNBIAS	2.5645	2.5772	0.0127
29	20	HDR UNBIAS	2.6316	2.6502	0.0186
30	20	HDR UNBIAS	2.5974	2.6192	0.0218
31	30	HDR BIAS	2.6643	2.6861	0.0218
32	30	HDR BIAS	2.6221	2.6548	0.0327
33	30	HDR BIAS	2.5779	2.6103	0.0324
34	30	HDR BIAS	2.5795	2.6049	0.0254
35	30	HDR BIAS	2.5978	2.6246	0.0268
36	30	HDR UNBIAS	2.5975	2.6241	0.0266
37	30	HDR UNBIAS	2.6084	2.6285	0.0201
38	30	HDR UNBIAS	2.6193	2.6464	0.0271
39	30	HDR UNBIAS	2.6139	2.6469	0.033
40	30	HDR UNBIAS	2.6241	2.6403	0.0162
41	50	HDR BIAS	2.5947	2.6382	0.0435
42	50	HDR BIAS	2.6146	2.6569	0.0423
43	50	HDR BIAS	2.5795	2.6035	0.024
44	50	HDR BIAS	2.6162	2.6587	0.0425
45	50	HDR BIAS	2.6069	2.6541	0.0472
46	50	HDR UNBIAS	2.6201	2.6485	0.0284
47	50	HDR UNBIAS	2.6007	2.6305	0.0298
48	50	HDR UNBIAS	2.5984	2.6363	0.0379
49	50	HDR UNBIAS	2.5959	2.6272	0.0313
50	50	HDR UNBIAS	2.5915	2.6325	0.041
71	0	CORRELATION	2.5913	2.5693	-0.022
72	0	CORRELATION	2.5962	2.5924	-0.0038
73	0	CORRELATION	2.6044	2.6042	-0.0002

TID vs Post - Pre Exposure Delta



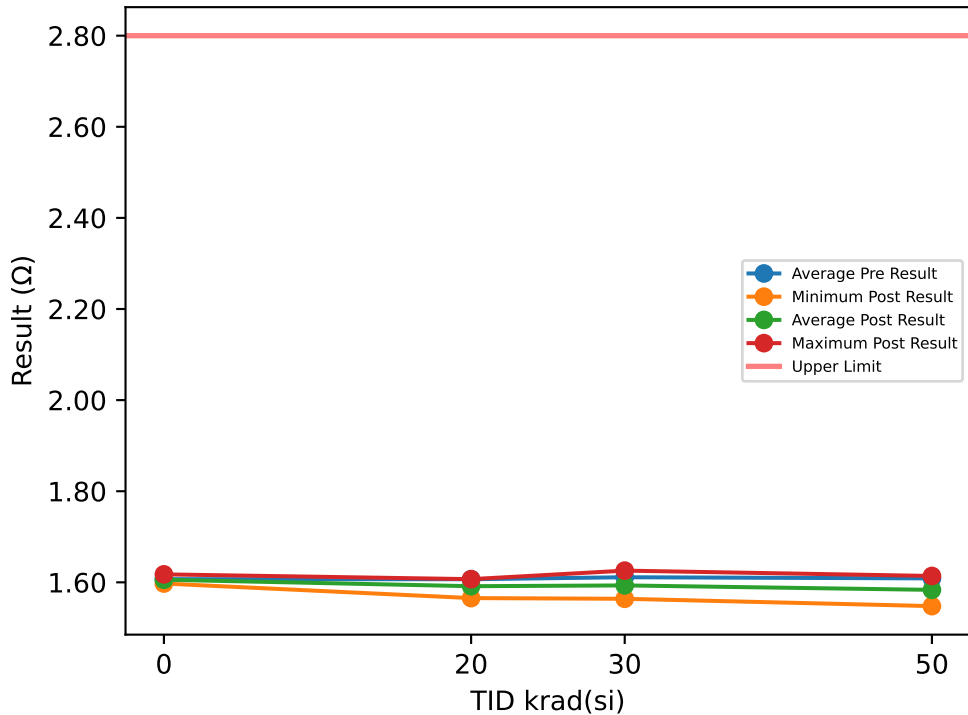
Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5913	2.5973	2.6044	0.0066189	2.5693	2.5886	2.6042	0.017752	-0.022	-0.0086667	-0.0002	0.011686
20	2.5645	2.6076	2.6316	0.021418	2.5772	2.6272	2.6502	0.025056	0.0107	0.01957	0.032	0.0063493
30	2.5779	2.6105	2.6643	0.025081	2.6049	2.6367	2.6861	0.02371	0.0162	0.02621	0.033	0.0056319
50	2.5795	2.6018	2.6201	0.01262	2.6035	2.6386	2.6587	0.016824	0.024	0.03679	0.0472	0.0078052



# Device Test: 23.8 LEVEL|LS\_RDSON/OUTL/5/5/100/0/5/500kHz//@ROL

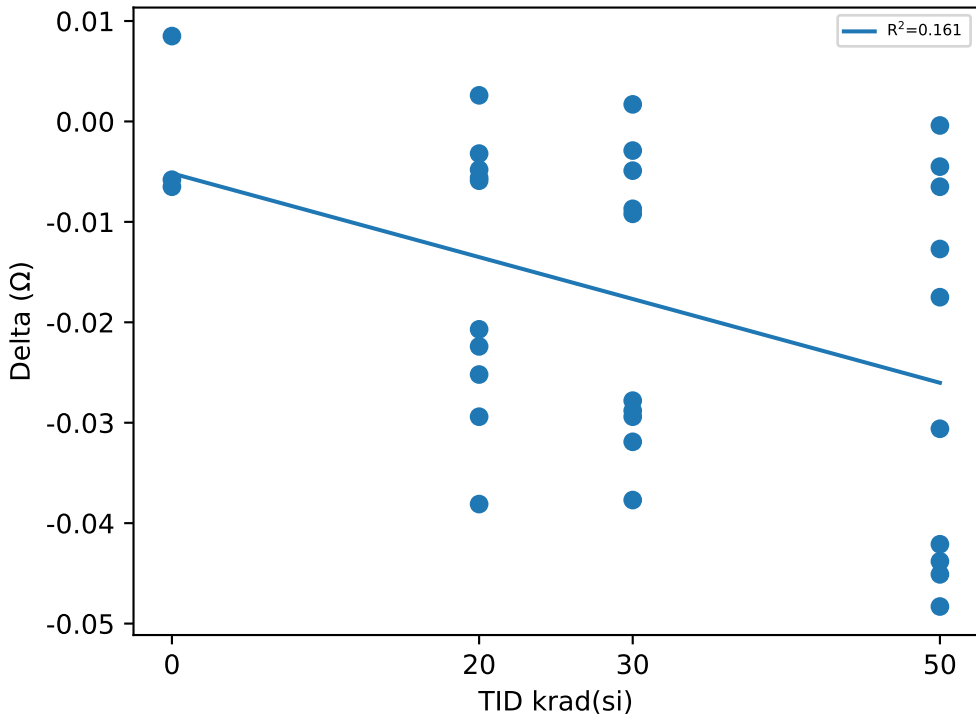
## TID vs Result Stats



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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.6172	1.5878	-0.0294
22	20	HDR BIAS	1.6208	1.5984	-0.0224
23	20	HDR BIAS	1.611	1.5858	-0.0252
24	20	HDR BIAS	1.6035	1.5654	-0.0381
25	20	HDR BIAS	1.5967	1.576	-0.0207
26	20	HDR UNBIAS	1.6126	1.607	-0.0056
27	20	HDR UNBIAS	1.5954	1.5922	-0.0032
28	20	HDR UNBIAS	1.5966	1.5992	0.0026
29	20	HDR UNBIAS	1.6108	1.606	-0.0048
30	20	HDR UNBIAS	1.6034	1.5975	-0.0059
31	30	HDR BIAS	1.6188	1.5894	-0.0294
32	30	HDR BIAS	1.6064	1.5786	-0.0278
33	30	HDR BIAS	1.6016	1.5639	-0.0377
34	30	HDR BIAS	1.6162	1.5843	-0.0319
35	30	HDR BIAS	1.6029	1.5741	-0.0288
36	30	HDR UNBIAS	1.6017	1.593	-0.0087
37	30	HDR UNBIAS	1.6286	1.6257	-0.0029
38	30	HDR UNBIAS	1.6215	1.6166	-0.0049
39	30	HDR UNBIAS	1.6078	1.5986	-0.0092
40	30	HDR UNBIAS	1.6063	1.608	0.0017
41	50	HDR BIAS	1.6084	1.5601	-0.0483
42	50	HDR BIAS	1.6292	1.5841	-0.0451
43	50	HDR BIAS	1.5784	1.5478	-0.0306
44	50	HDR BIAS	1.609	1.5652	-0.0438
45	50	HDR BIAS	1.6049	1.5628	-0.0421
46	50	HDR UNBIAS	1.6108	1.6063	-0.0045
47	50	HDR UNBIAS	1.5966	1.5839	-0.0127
48	50	HDR UNBIAS	1.6274	1.6099	-0.0175
49	50	HDR UNBIAS	1.6144	1.614	-0.0004
50	50	HDR UNBIAS	1.6073	1.6008	-0.0065
71	0	CORRELATION	1.609	1.6175	0.0085
72	0	CORRELATION	1.608	1.6022	-0.0058
73	0	CORRELATION	1.6039	1.5974	-0.0065

## TID vs Post - Pre Exposure Delta

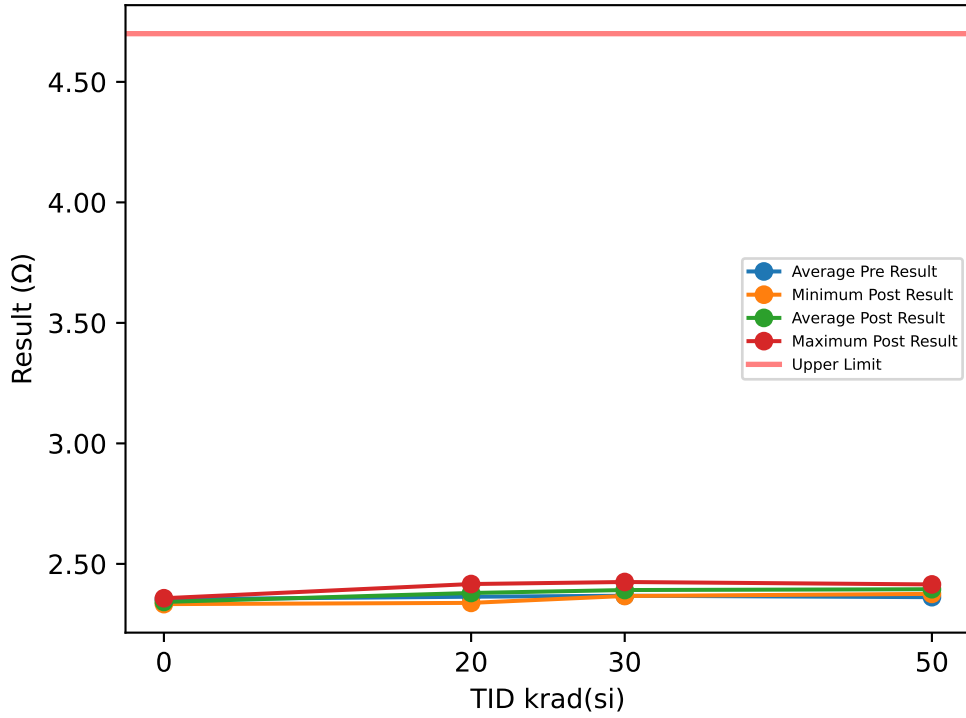


## Test Statistics (Ω)

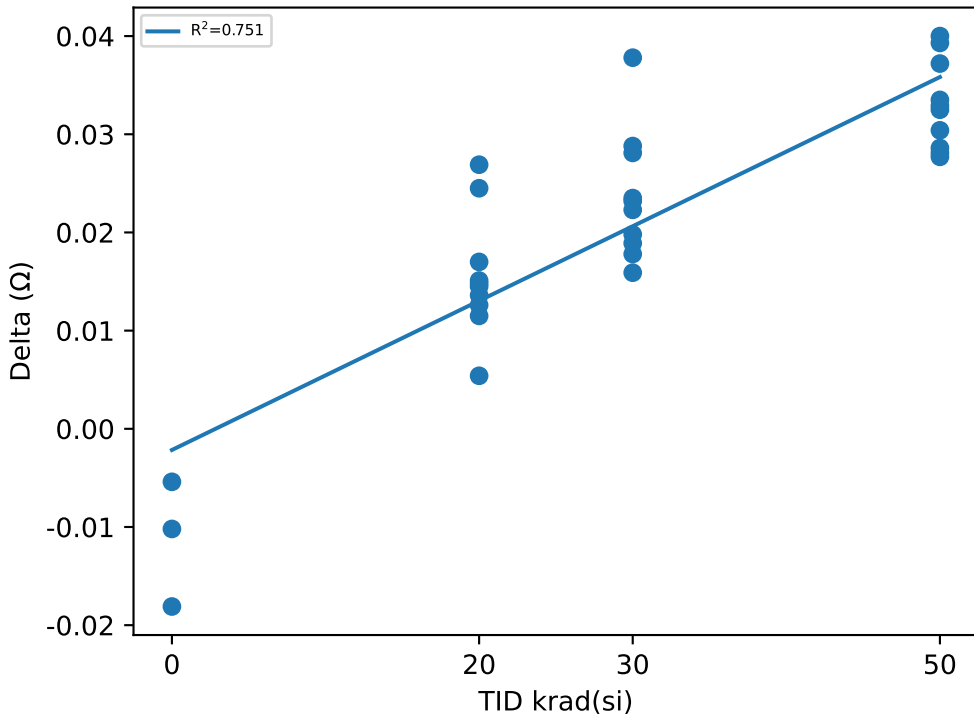
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.6039	1.607	1.609	0.0027025	1.5974	1.6057	1.6175	0.010497	-0.0065	-0.0012667	0.0085	0.0084654
20	1.5954	1.6068	1.6208	0.0090056	1.5654	1.5915	1.607	0.013172	-0.0381	-0.01527	0.0026	0.013564
30	1.6016	1.6112	1.6286	0.009437	1.5639	1.5932	1.6257	0.019385	-0.0377	-0.01796	0.0017	0.014436
50	1.5784	1.6086	1.6292	0.014483	1.5478	1.5835	1.614	0.023646	-0.0483	-0.02515	-0.0004	0.018853

# Device Test: 23.9 LEVEL|HS\_RDSON/OUTH/12/12/100/0/5/500kHz//@ROH

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Upper Limit = 4.7 (Ω))

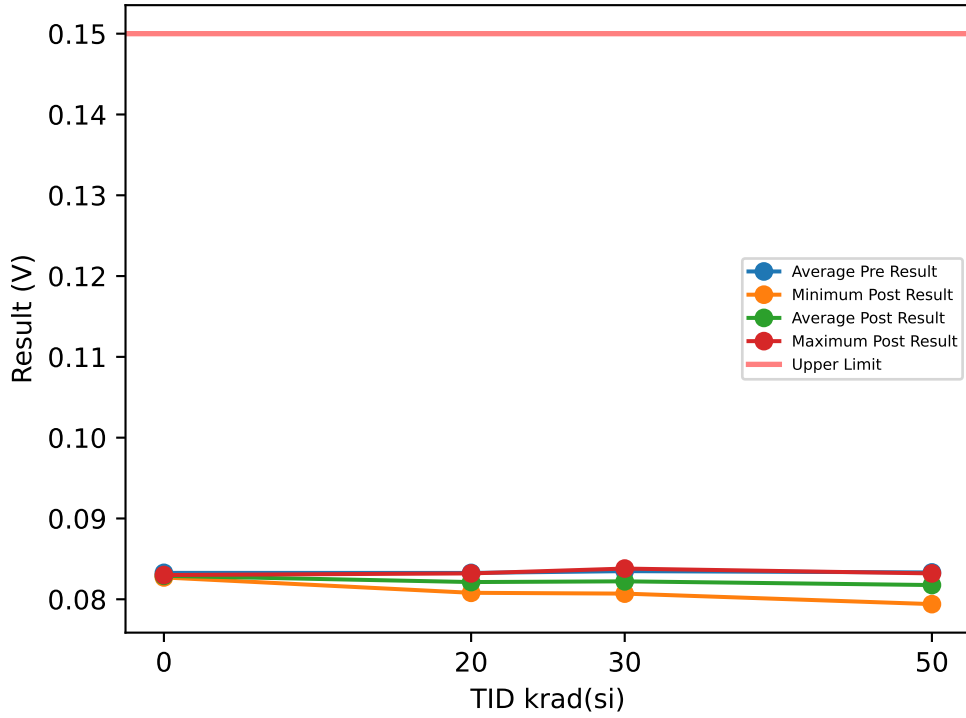
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.3656	2.3804	0.0148
22	20	HDR BIAS	2.3602	2.3717	0.0115
23	20	HDR BIAS	2.3605	2.3731	0.0126
24	20	HDR BIAS	2.3799	2.4068	0.0269
25	20	HDR BIAS	2.3414	2.355	0.0136
26	20	HDR UNBIAS	2.3649	2.3794	0.0145
27	20	HDR UNBIAS	2.3787	2.4032	0.0245
28	20	HDR UNBIAS	2.3328	2.3382	0.0054
29	20	HDR UNBIAS	2.3994	2.4164	0.017
30	20	HDR UNBIAS	2.3538	2.3689	0.0151
31	30	HDR BIAS	2.406	2.4249	0.0189
32	30	HDR BIAS	2.3868	2.4066	0.0198
33	30	HDR BIAS	2.3345	2.3723	0.0378
34	30	HDR BIAS	2.3433	2.3668	0.0235
35	30	HDR BIAS	2.3623	2.3855	0.0232
36	30	HDR UNBIAS	2.3594	2.3875	0.0281
37	30	HDR UNBIAS	2.3576	2.3735	0.0159
38	30	HDR UNBIAS	2.3807	2.403	0.0223
39	30	HDR UNBIAS	2.3709	2.3997	0.0288
40	30	HDR UNBIAS	2.3771	2.3949	0.0178
41	50	HDR BIAS	2.3711	2.3988	0.0277
42	50	HDR BIAS	2.3748	2.4148	0.04
43	50	HDR BIAS	2.3452	2.3756	0.0304
44	50	HDR BIAS	2.372	2.4092	0.0372
45	50	HDR BIAS	2.3637	2.3972	0.0335
46	50	HDR UNBIAS	2.3805	2.4091	0.0286
47	50	HDR UNBIAS	2.3572	2.3853	0.0281
48	50	HDR UNBIAS	2.3576	2.3901	0.0325
49	50	HDR UNBIAS	2.3442	2.3771	0.0329
50	50	HDR UNBIAS	2.3525	2.3918	0.0393
71	0	CORRELATION	2.3512	2.3331	-0.0181
72	0	CORRELATION	2.3412	2.3358	-0.0054
73	0	CORRELATION	2.3677	2.3575	-0.0102

### Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3412	2.3534	2.3677	0.013382	2.3331	2.3421	2.3575	0.013376	-0.0181	-0.011233	-0.0054	0.0064127
20	2.3328	2.3637	2.3994	0.019263	2.3382	2.3793	2.4164	0.024012	0.0054	0.01559	0.0269	0.0061897
30	2.3345	2.3679	2.406	0.021073	2.3668	2.3915	2.4249	0.017979	0.0159	0.02361	0.0378	0.0065
50	2.3442	2.3619	2.3805	0.012576	2.3756	2.3949	2.4148	0.013486	0.0277	0.03302	0.04	0.0045345

# Device Test: 24.1 LEVEL|LOW\_LEVEL/OUTL/4.5/4.5/0/0/4.5/500kHz//@OUT\_VOL

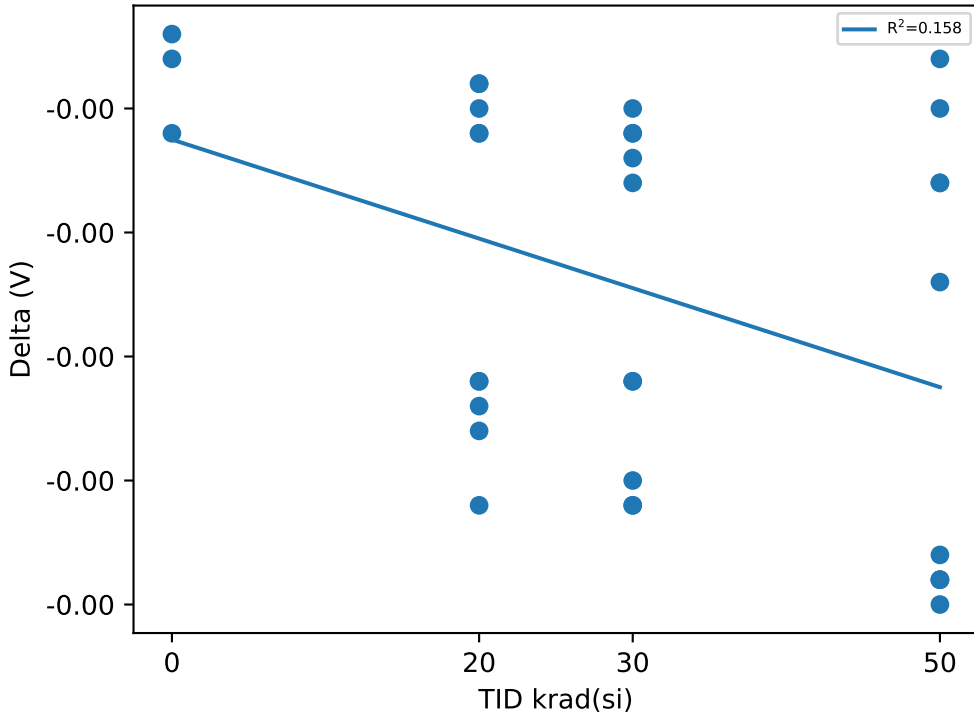
### TID vs Result Stats



### Test Results (Upper Limit = 0.15 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.0838	0.0822	-0.0016
22	20	HDR BIAS	0.0841	0.0823	-0.0018
23	20	HDR BIAS	0.0837	0.0821	-0.0016
24	20	HDR BIAS	0.0829	0.0808	-0.0021
25	20	HDR BIAS	0.0825	0.0808	-0.0017
26	20	HDR UNBIAS	0.0836	0.0832	-0.0004
27	20	HDR UNBIAS	0.0828	0.0822	-0.0006
28	20	HDR UNBIAS	0.0826	0.0821	-0.0005
29	20	HDR UNBIAS	0.0836	0.0832	-0.0004
30	20	HDR UNBIAS	0.083	0.0824	-0.0006
31	30	HDR BIAS	0.0838	0.0818	-0.002
32	30	HDR BIAS	0.0834	0.0818	-0.0016
33	30	HDR BIAS	0.0828	0.0807	-0.0021
34	30	HDR BIAS	0.0838	0.0817	-0.0021
35	30	HDR BIAS	0.0831	0.0815	-0.0016
36	30	HDR UNBIAS	0.083	0.0824	-0.0006
37	30	HDR UNBIAS	0.0842	0.0834	-0.0008
38	30	HDR UNBIAS	0.0843	0.0838	-0.0005
39	30	HDR UNBIAS	0.0833	0.0826	-0.0007
40	30	HDR UNBIAS	0.0831	0.0825	-0.0006
41	50	HDR BIAS	0.0833	0.0808	-0.0025
42	50	HDR BIAS	0.0843	0.0819	-0.0024
43	50	HDR BIAS	0.0817	0.0794	-0.0023
44	50	HDR BIAS	0.0834	0.081	-0.0024
45	50	HDR BIAS	0.0831	0.0807	-0.0024
46	50	HDR UNBIAS	0.0833	0.0825	-0.0008
47	50	HDR UNBIAS	0.0829	0.0821	-0.0008
48	50	HDR UNBIAS	0.0844	0.0832	-0.0012
49	50	HDR UNBIAS	0.0835	0.083	-0.0005
50	50	HDR UNBIAS	0.0833	0.083	-0.0003
71	0	CORRELATION	0.0836	0.083	-0.0006
72	0	CORRELATION	0.0832	0.083	-0.0002
73	0	CORRELATION	0.083	0.0827	-0.0003

### TID vs Post - Pre Exposure Delta

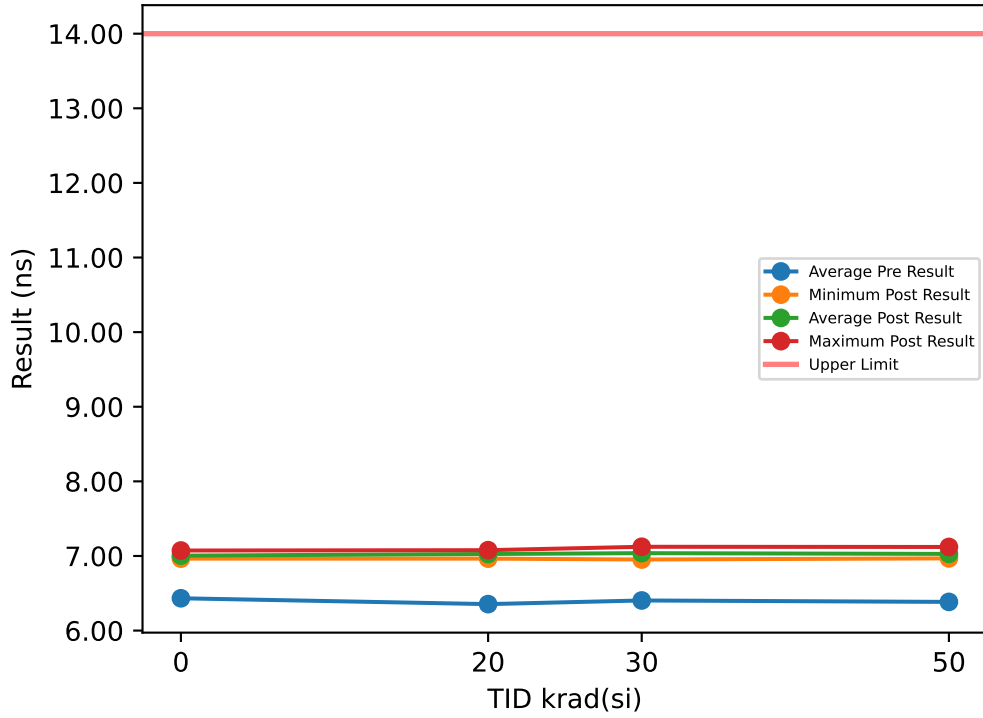


### Test Statistics (V)

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	0.083	0.083267	0.0836	0.00030551	0.0827	0.0829	0.083	0.00017321	-0.0006	-0.00036667	-0.0002	0.00020817
20	0.0825	0.08326	0.0841	0.00056214	0.0808	0.08213	0.0832	0.00081247	-0.0021	-0.00113	-0.0004	0.00068158
30	0.0828	0.08348	0.0843	0.00051812	0.0807	0.08222	0.0838	0.00091869	-0.0021	-0.00126	-0.0005	0.0006802
50	0.0817	0.08332	0.0844	0.00074655	0.0794	0.08176	0.0832	0.0012483	-0.0025	-0.00156	-0.0003	0.00091554

# Device Test: 24.10 TIMING|OUT\_FALL/OUTH/4.5/4.5/0/1000/4.5/500kHz//@OUT\_FALL\_4P5V

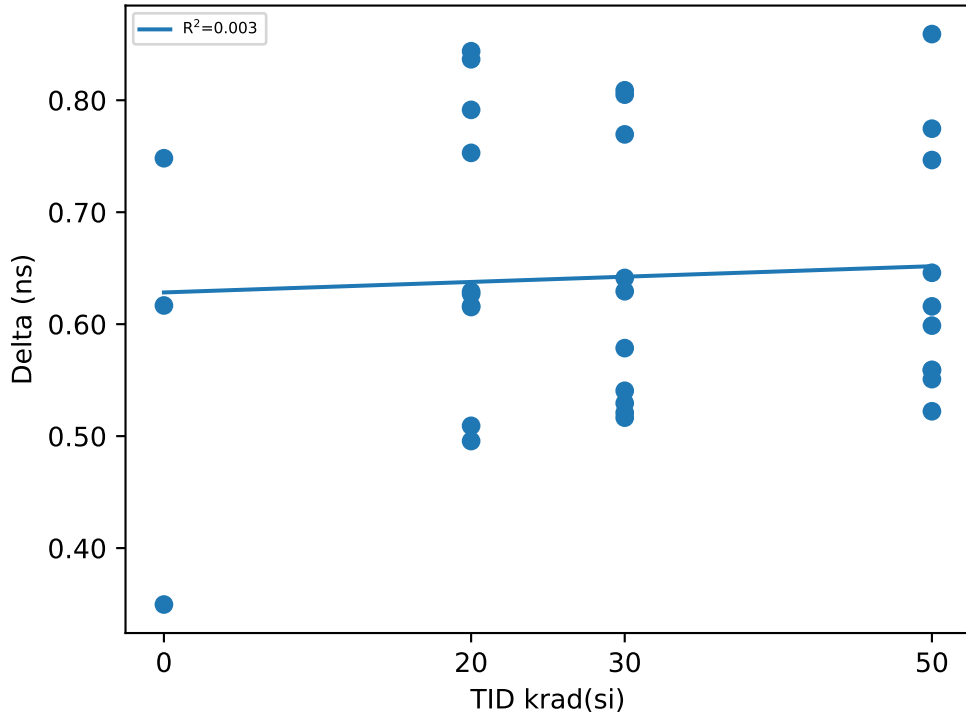
### TID vs Result Stats



### Test Results (Upper Limit = 14.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.2115	6.9645	0.753
22	20	HDR BIAS	6.582	7.0776	0.4956
23	20	HDR BIAS	6.4256	7.0409	0.6153
24	20	HDR BIAS	6.1464	6.983	0.8366
25	20	HDR BIAS	6.5309	7.0401	0.5092
26	20	HDR UNBIAS	6.4357	7.0627	0.627
27	20	HDR UNBIAS	6.197	7.0408	0.8438
28	20	HDR UNBIAS	6.4533	7.0695	0.6162
29	20	HDR UNBIAS	6.3743	7.0034	0.6291
30	20	HDR UNBIAS	6.1907	6.9821	0.7914
31	30	HDR BIAS	6.5599	7.0808	0.5209
32	30	HDR BIAS	6.3999	7.0293	0.6294
33	30	HDR BIAS	6.1474	6.9524	0.805
34	30	HDR BIAS	6.5669	7.0834	0.5165
35	30	HDR BIAS	6.3625	7.0038	0.6413
36	30	HDR UNBIAS	6.1969	6.9664	0.7695
37	30	HDR UNBIAS	6.5446	7.1232	0.5786
38	30	HDR UNBIAS	6.4878	7.0172	0.5294
39	30	HDR UNBIAS	6.2303	7.0392	0.8089
40	30	HDR UNBIAS	6.5405	7.081	0.5405
41	50	HDR BIAS	6.4265	6.9774	0.5509
42	50	HDR BIAS	6.1088	6.9679	0.8591
43	50	HDR BIAS	6.4828	7.0418	0.559
44	50	HDR BIAS	6.3948	6.9935	0.5987
45	50	HDR BIAS	6.2018	6.9764	0.7746
46	50	HDR UNBIAS	6.5528	7.1119	0.5591
47	50	HDR UNBIAS	6.4132	7.0291	0.6159
48	50	HDR UNBIAS	6.2399	6.9865	0.7466
49	50	HDR UNBIAS	6.5985	7.1207	0.5222
50	50	HDR UNBIAS	6.4257	7.0716	0.6459
71	0	CORRELATION	6.4564	7.0731	0.6167
72	0	CORRELATION	6.2164	6.9646	0.7482
73	0	CORRELATION	6.6262	6.9758	0.3496

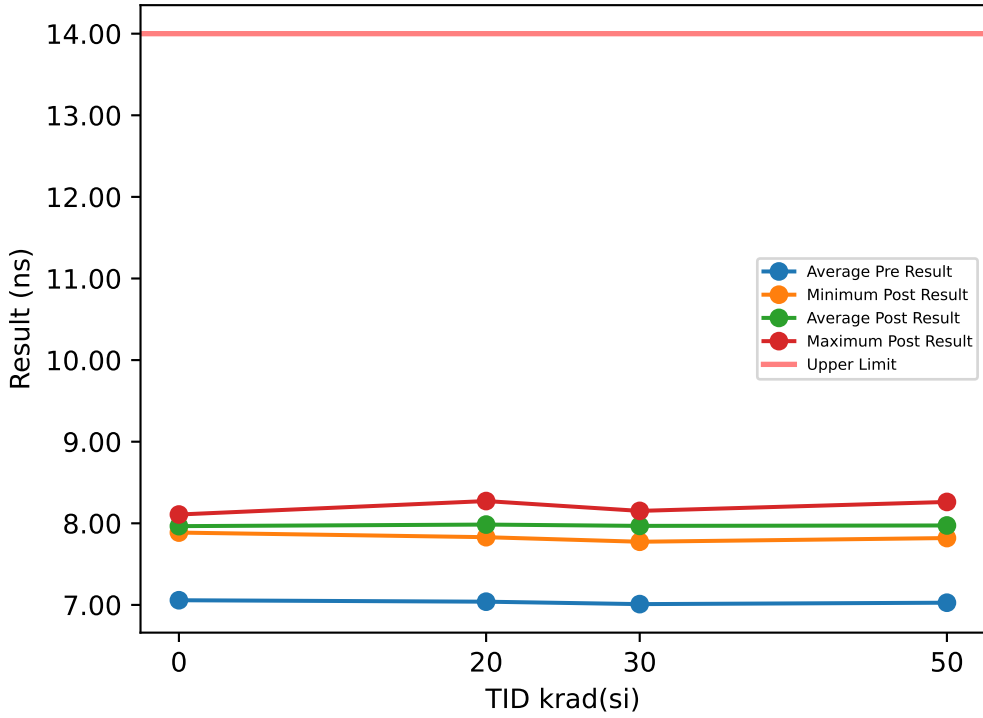
### TID vs Post - Pre Exposure Delta



### Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.2164	6.433	6.6262	0.2059	6.9646	7.0045	7.0731	0.059673	0.3496	0.5715	0.7482	0.20311
20	6.1464	6.3547	6.582	0.15637	6.9645	7.0265	7.0776	0.040289	0.4956	0.67172	0.8438	0.12703
30	6.1474	6.4037	6.5669	0.16224	6.9524	7.0377	7.1232	0.054907	0.5165	0.634	0.8089	0.11908
50	6.1088	6.3845	6.5985	0.1558	6.9679	7.0277	7.1207	0.057224	0.5222	0.6432	0.8591	0.11285

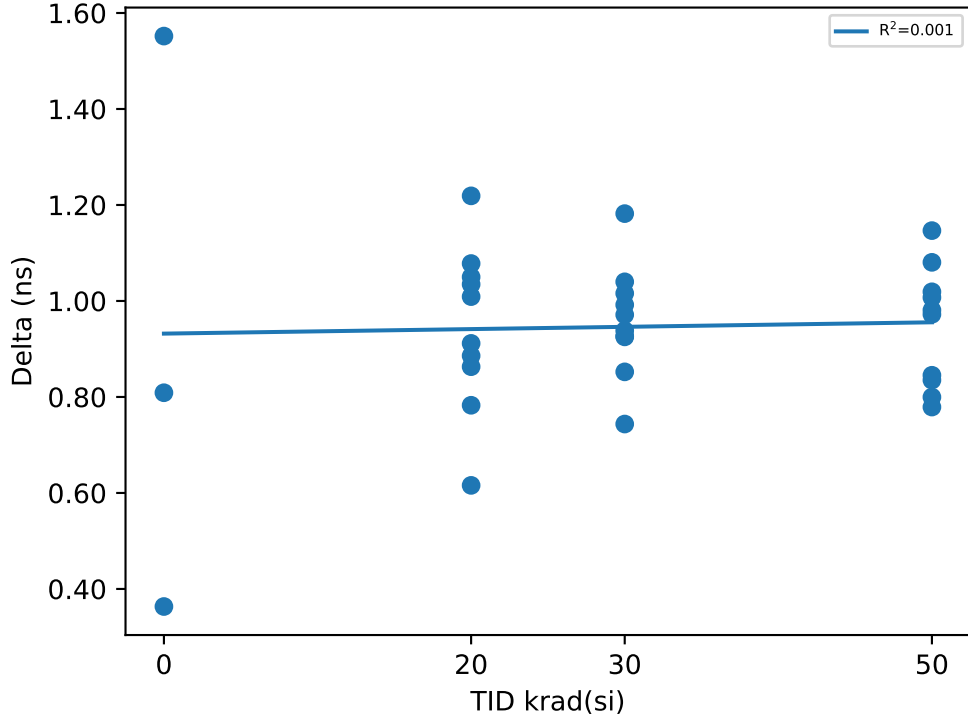
TID vs Result Stats



Test Results (Upper Limit = 14.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.8408	7.8755	1.0347
22	20	HDR BIAS	7.3652	8.2283	0.8631
23	20	HDR BIAS	6.9994	7.8852	0.8858
24	20	HDR BIAS	7.0181	7.9297	0.9116
25	20	HDR BIAS	7.0618	8.1117	1.0499
26	20	HDR UNBIAS	6.8594	7.9374	1.078
27	20	HDR UNBIAS	7.2141	7.8299	0.6158
28	20	HDR UNBIAS	7.2636	8.2727	1.0091
29	20	HDR UNBIAS	6.6991	7.9181	1.219
30	20	HDR UNBIAS	7.0741	7.8568	0.7827
31	30	HDR BIAS	7.1531	8.1244	0.9713
32	30	HDR BIAS	6.8779	7.8938	1.0159
33	30	HDR BIAS	6.8471	7.774	0.9269
34	30	HDR BIAS	7.1256	8.1176	0.992
35	30	HDR BIAS	6.6879	7.8699	1.182
36	30	HDR UNBIAS	7.1174	7.861	0.7436
37	30	HDR UNBIAS	7.2139	8.1521	0.9382
38	30	HDR UNBIAS	6.8335	7.8734	1.0399
39	30	HDR UNBIAS	6.9742	7.8994	0.9252
40	30	HDR UNBIAS	7.2673	8.1196	0.8523
41	50	HDR BIAS	6.8471	7.8193	0.9722
42	50	HDR BIAS	7.1235	7.9025	0.779
43	50	HDR BIAS	7.1618	8.1809	1.0191
44	50	HDR BIAS	6.7349	7.8815	1.1466
45	50	HDR BIAS	7.0667	7.9119	0.8452
46	50	HDR UNBIAS	7.3296	8.1293	0.7997
47	50	HDR UNBIAS	6.7569	7.8374	1.0805
48	50	HDR UNBIAS	7.0993	7.9344	0.8351
49	50	HDR UNBIAS	7.2545	8.2618	1.0073
50	50	HDR UNBIAS	6.8965	7.8774	0.9809
71	0	CORRELATION	6.5559	8.1078	1.5519
72	0	CORRELATION	7.0929	7.9017	0.8088
73	0	CORRELATION	7.523	7.8864	0.3634

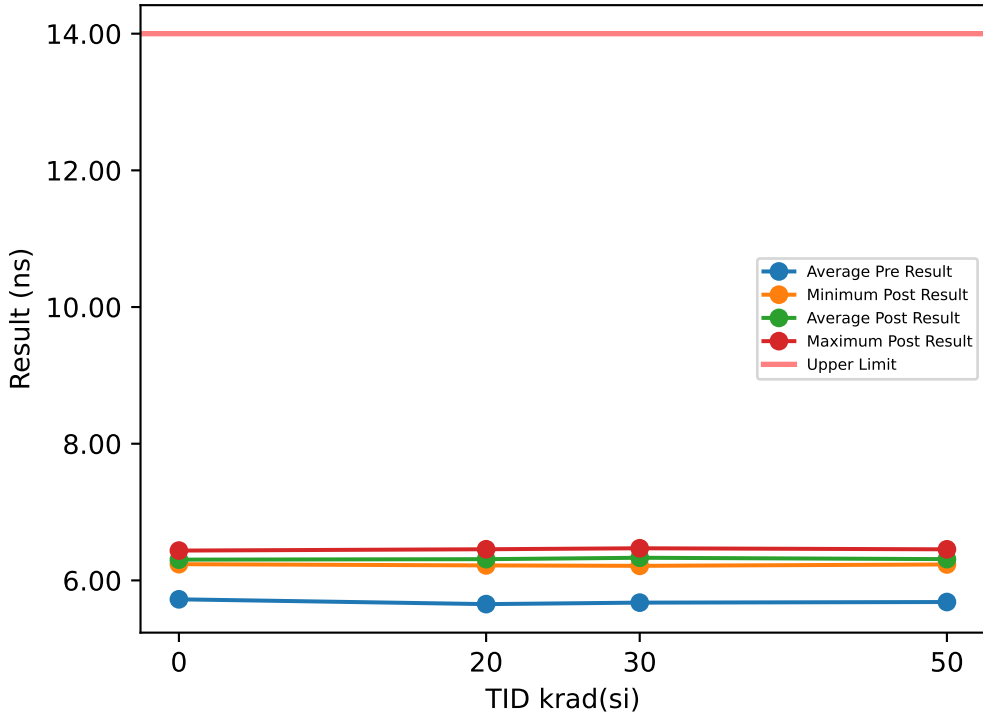
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.5559	7.0573	7.523	0.48453	7.8864	7.9653	8.1078	0.12365	0.3634	0.90803	1.5519	0.60043
20	6.6991	7.0396	7.3652	0.20503	7.8299	7.9845	8.2727	0.15995	0.6158	0.94497	1.219	0.17061
30	6.6879	7.0098	7.2673	0.19245	7.774	7.9685	8.1521	0.14204	0.7436	0.95873	1.182	0.11602
50	6.7349	7.0271	7.3296	0.2069	7.8193	7.9736	8.2618	0.15662	0.779	0.94656	1.1466	0.1252

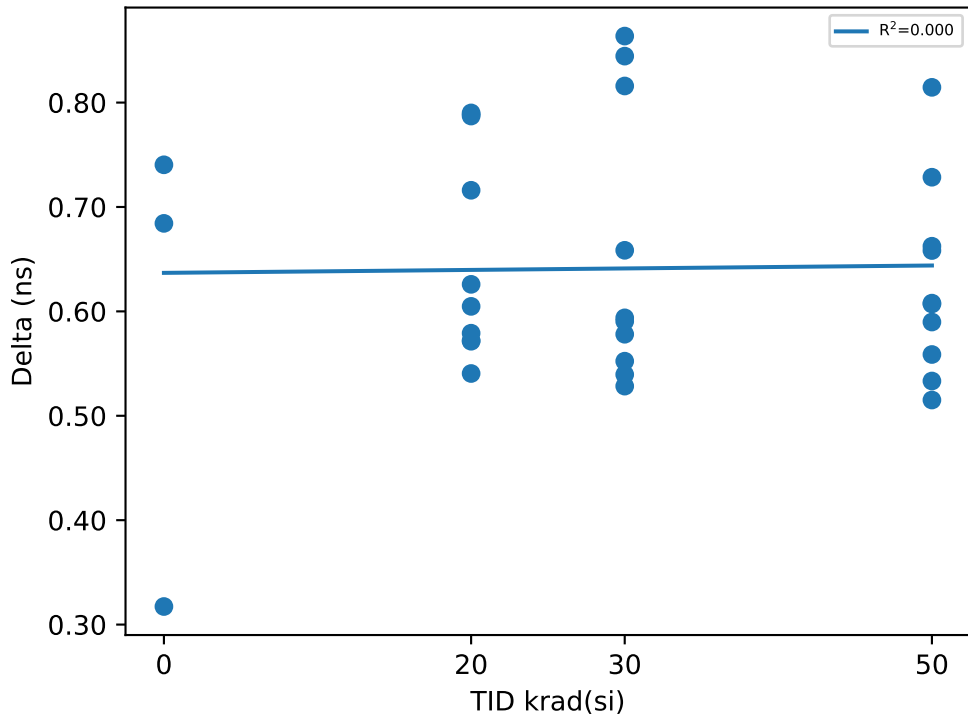
TID vs Result Stats



Test Results (Upper Limit = 14.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5.4643	6.2529	0.7886
22	20	HDR BIAS	5.8845	6.4559	0.5714
23	20	HDR BIAS	5.6769	6.3028	0.6259
24	20	HDR BIAS	5.4602	6.2473	0.7871
25	20	HDR BIAS	5.8146	6.3867	0.5721
26	20	HDR UNBIAS	5.7018	6.3066	0.6048
27	20	HDR UNBIAS	5.5286	6.2446	0.716
28	20	HDR UNBIAS	5.8586	6.3991	0.5405
29	20	HDR UNBIAS	5.7117	6.2908	0.5791
30	20	HDR UNBIAS	5.4293	6.2194	0.7901
31	30	HDR BIAS	5.8618	6.4523	0.5905
32	30	HDR BIAS	5.6297	6.2882	0.6585
33	30	HDR BIAS	5.3972	6.2131	0.8159
34	30	HDR BIAS	5.8696	6.4091	0.5395
35	30	HDR BIAS	5.7015	6.2796	0.5781
36	30	HDR UNBIAS	5.3766	6.2211	0.8445
37	30	HDR UNBIAS	5.8763	6.4701	0.5938
38	30	HDR UNBIAS	5.7668	6.3191	0.5523
39	30	HDR UNBIAS	5.391	6.2547	0.8637
40	30	HDR UNBIAS	5.8772	6.4056	0.5284
41	50	HDR BIAS	5.6747	6.2334	0.5587
42	50	HDR BIAS	5.5052	6.2337	0.7285
43	50	HDR BIAS	5.8258	6.3591	0.5333
44	50	HDR BIAS	5.6881	6.2952	0.6071
45	50	HDR BIAS	5.4572	6.2718	0.8146
46	50	HDR UNBIAS	5.8924	6.4075	0.5151
47	50	HDR UNBIAS	5.6374	6.2957	0.6583
48	50	HDR UNBIAS	5.6181	6.2805	0.6624
49	50	HDR UNBIAS	5.865	6.4548	0.5898
50	50	HDR UNBIAS	5.672	6.2799	0.6079
71	0	CORRELATION	5.7522	6.4365	0.6843
72	0	CORRELATION	5.4971	6.2375	0.7404
73	0	CORRELATION	5.9205	6.2378	0.3173

TID vs Post - Pre Exposure Delta



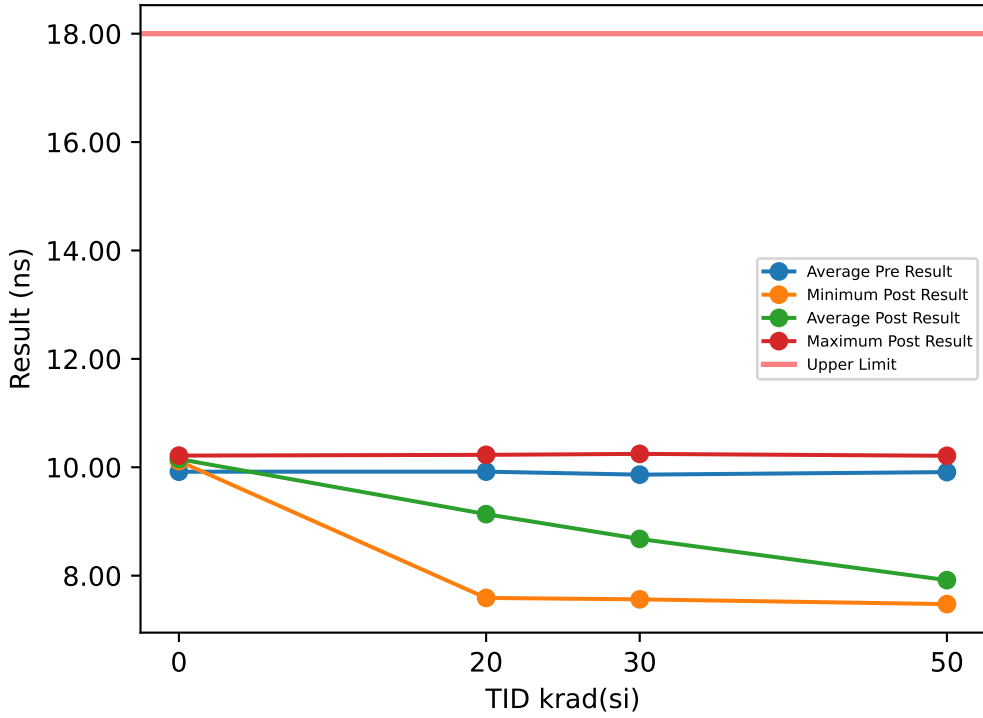
Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.4971	5.7233	5.9205	0.21318	6.2375	6.3039	6.4365	0.11481	0.3173	0.58067	0.7404	0.2298
20	5.4293	5.6531	5.8845	0.17213	6.2194	6.3106	6.4559	0.078326	0.5405	0.65756	0.7901	0.10182
30	5.3766	5.6748	5.8772	0.21402	6.2131	6.3313	6.4701	0.095535	0.5284	0.65652	0.8637	0.13295
50	5.4572	5.6836	5.8924	0.14394	6.2334	6.3112	6.4548	0.073196	0.5151	0.62757	0.8146	0.091795



# Device Test: 24.13 TIMING|OUT\_RISE/OUTH/12/12/0/1000/5/500kHz//@OUT\_RISE\_12V

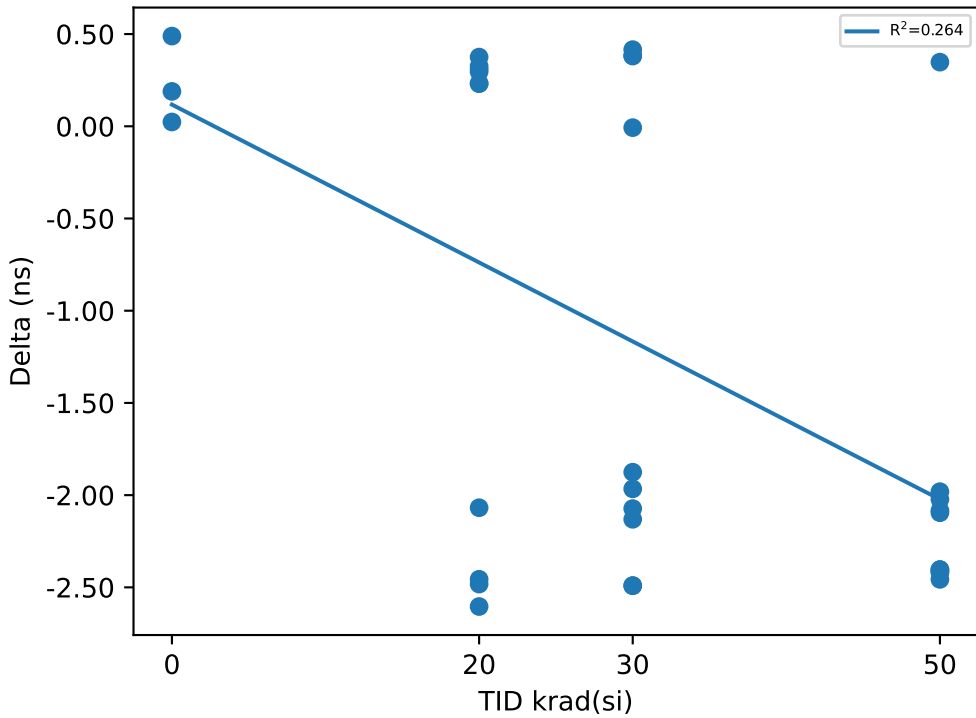
### TID vs Result Stats



### Test Results (Upper Limit = 18.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	9.7616	10.072	0.31
22	20	HDR BIAS	10.193	7.5892	-2.6039
23	20	HDR BIAS	9.7686	10.144	0.3752
24	20	HDR BIAS	10.148	7.6659	-2.4822
25	20	HDR BIAS	9.7785	10.074	0.2955
26	20	HDR UNBIAS	9.9029	10.229	0.3263
27	20	HDR UNBIAS	10.102	7.6455	-2.4562
28	20	HDR UNBIAS	9.808	10.04	0.2325
29	20	HDR UNBIAS	9.9785	7.9103	-2.0682
30	20	HDR UNBIAS	9.7501	9.9812	0.2311
31	30	HDR BIAS	9.6882	7.8126	-1.8756
32	30	HDR BIAS	9.9352	7.8042	-2.131
33	30	HDR BIAS	9.6035	10.019	0.4156
34	30	HDR BIAS	9.866	10.247	0.3808
35	30	HDR BIAS	9.6867	7.7208	-1.9659
36	30	HDR UNBIAS	9.7065	10.09	0.3835
37	30	HDR UNBIAS	10.053	7.5628	-2.4905
38	30	HDR UNBIAS	9.7878	7.7149	-2.0729
39	30	HDR UNBIAS	10.234	10.227	-0.0074
40	30	HDR UNBIAS	10.074	7.583	-2.4911
41	50	HDR BIAS	9.8767	7.7814	-2.0953
42	50	HDR BIAS	10.097	7.6834	-2.4139
43	50	HDR BIAS	9.9069	7.5028	-2.4041
44	50	HDR BIAS	9.7524	7.7712	-1.9812
45	50	HDR BIAS	9.8641	10.212	0.3478
46	50	HDR UNBIAS	10.208	7.7886	-2.4195
47	50	HDR UNBIAS	9.7493	7.666	-2.0833
48	50	HDR UNBIAS	10.018	7.6145	-2.4035
49	50	HDR UNBIAS	9.9318	7.475	-2.4568
50	50	HDR UNBIAS	9.7021	7.6791	-2.023
71	0	CORRELATION	10.026	10.215	0.1891
72	0	CORRELATION	9.6239	10.113	0.4891
73	0	CORRELATION	10.104	10.127	0.0233

### TID vs Post - Pre Exposure Delta

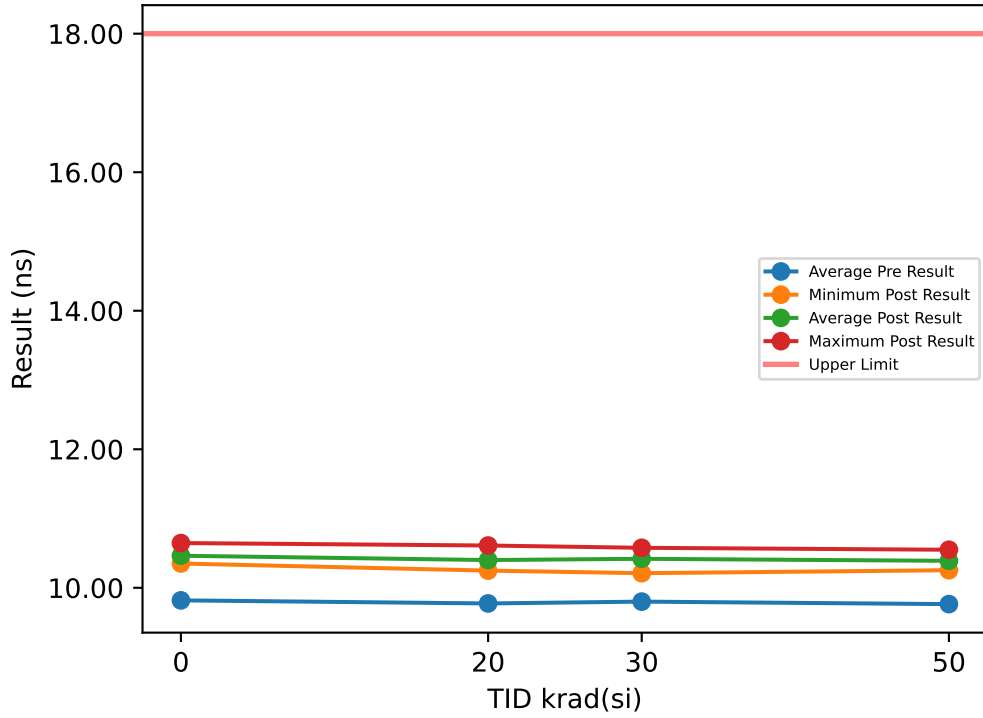


### Test Statistics (ns)

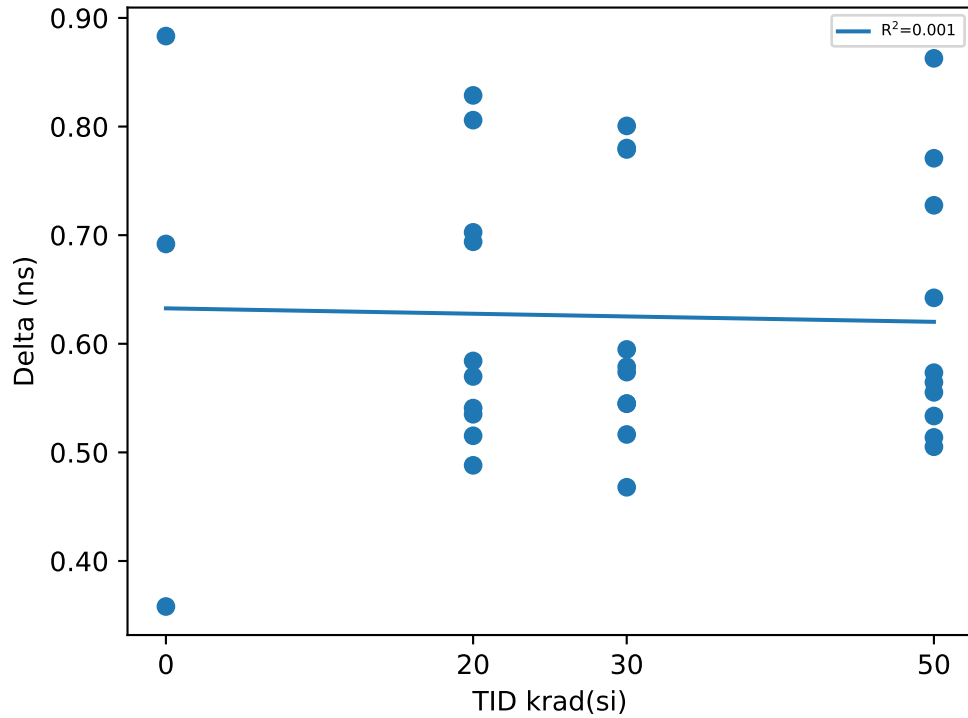
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.6239	9.9181	10.104	0.25773	10.113	10.152	10.215	0.055297	0.0233	0.23383	0.4891	0.2361
20	9.7501	9.9191	10.193	0.17409	7.5892	9.1351	10.229	1.2372	-2.6039	-0.78399	0.3752	1.4001
30	9.6035	9.8635	10.234	0.20625	7.5628	8.6781	10.247	1.2671	-2.4911	-1.1855	0.4156	1.2928
50	9.7021	9.9107	10.208	0.16097	7.475	7.9174	10.212	0.81345	-2.4568	-1.9933	0.3478	0.84398



TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 18.0 (ns))

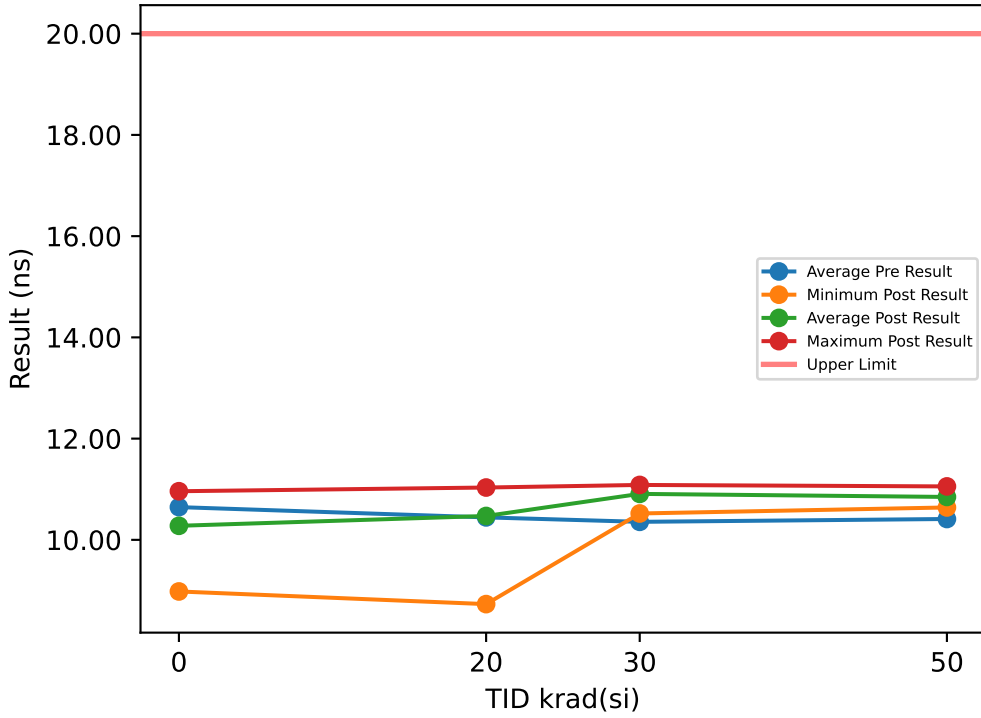
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	9.6615	10.355	0.6939
22	20	HDR BIAS	10.07	10.611	0.5408
23	20	HDR BIAS	9.8455	10.43	0.5842
24	20	HDR BIAS	9.5455	10.248	0.7026
25	20	HDR BIAS	9.9271	10.415	0.4881
26	20	HDR UNBIAS	9.9286	10.444	0.5153
27	20	HDR UNBIAS	9.5264	10.332	0.8059
28	20	HDR UNBIAS	9.9317	10.467	0.5351
29	20	HDR UNBIAS	9.8758	10.446	0.5699
30	20	HDR UNBIAS	9.4287	10.257	0.8287
31	30	HDR BIAS	9.9985	10.577	0.5788
32	30	HDR BIAS	9.8273	10.372	0.5449
33	30	HDR BIAS	9.4321	10.211	0.7789
34	30	HDR BIAS	10.056	10.524	0.4679
35	30	HDR BIAS	9.7981	10.393	0.5948
36	30	HDR UNBIAS	9.4891	10.269	0.7802
37	30	HDR UNBIAS	9.9958	10.512	0.5165
38	30	HDR UNBIAS	9.9128	10.487	0.5739
39	30	HDR UNBIAS	9.5374	10.338	0.8006
40	30	HDR UNBIAS	9.9585	10.503	0.5449
41	50	HDR BIAS	9.7835	10.357	0.5734
42	50	HDR BIAS	9.5262	10.254	0.7275
43	50	HDR BIAS	9.8076	10.313	0.5052
44	50	HDR BIAS	9.8268	10.382	0.5553
45	50	HDR BIAS	9.5694	10.34	0.7708
46	50	HDR UNBIAS	9.9812	10.515	0.5335
47	50	HDR UNBIAS	9.808	10.373	0.5645
48	50	HDR UNBIAS	9.5409	10.404	0.8628
49	50	HDR UNBIAS	10.036	10.55	0.5138
50	50	HDR UNBIAS	9.7646	10.407	0.6423
71	0	CORRELATION	9.9541	10.646	0.6919
72	0	CORRELATION	9.5091	10.392	0.8833
73	0	CORRELATION	9.9924	10.351	0.3581

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.5091	9.8185	9.9924	0.26866	10.351	10.463	10.646	0.15989	0.3581	0.64443	0.8833	0.2658
20	9.4287	9.774	10.07	0.21616	10.248	10.4	10.611	0.10743	0.4881	0.62645	0.8287	0.12275
30	9.4321	9.8005	10.056	0.23158	10.211	10.419	10.577	0.12088	0.4679	0.61814	0.8006	0.1216
50	9.5262	9.7644	10.036	0.17428	10.254	10.389	10.55	0.088154	0.5052	0.62491	0.8628	0.12242

# Device Test: 24.15 TIMING|OUT\_RISE/OUTH/14/14/0/1000/5/500kHz//@OUT\_RISE\_14V

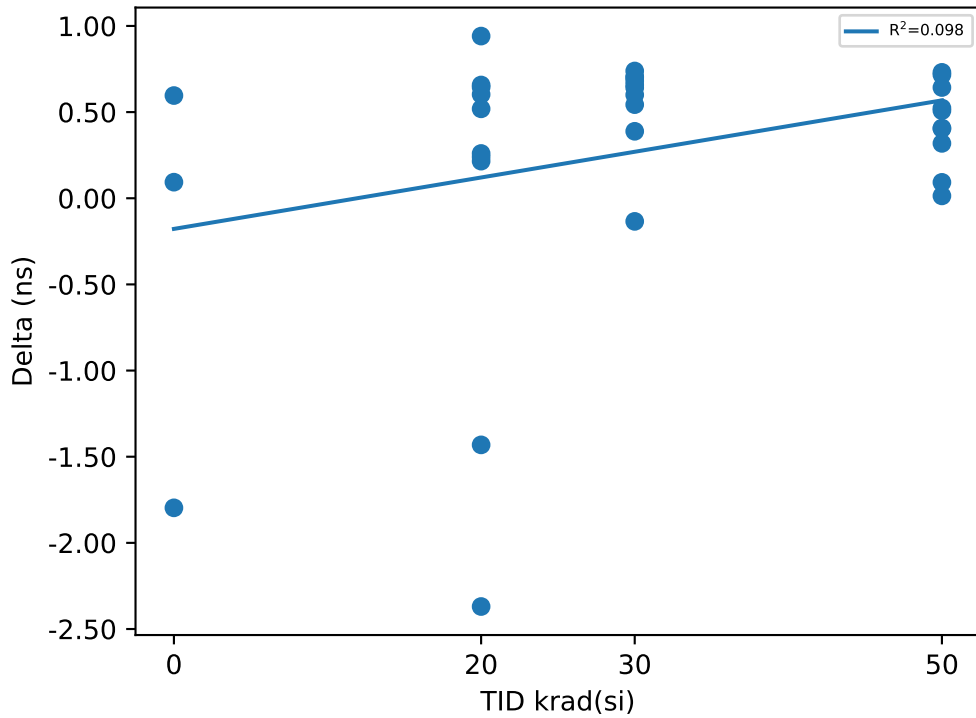
### TID vs Result Stats



### Test Results (Upper Limit = 20.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	10.376	11.034	0.6573
22	20	HDR BIAS	10.003	10.944	0.9412
23	20	HDR BIAS	10.546	9.1147	-1.4313
24	20	HDR BIAS	10.141	10.743	0.6025
25	20	HDR BIAS	10.635	10.851	0.2154
26	20	HDR UNBIAS	11.1	8.7304	-2.3694
27	20	HDR UNBIAS	10.571	10.831	0.2599
28	20	HDR UNBIAS	10.467	10.706	0.2397
29	20	HDR UNBIAS	10.133	10.778	0.6446
30	20	HDR UNBIAS	10.465	10.984	0.519
31	30	HDR BIAS	10.096	10.802	0.7064
32	30	HDR BIAS	10.202	10.859	0.6572
33	30	HDR BIAS	10.405	11.085	0.6801
34	30	HDR BIAS	10.51	11.053	0.5433
35	30	HDR BIAS	10.308	10.908	0.6
36	30	HDR UNBIAS	10.655	10.521	-0.1342
37	30	HDR UNBIAS	10.213	10.912	0.6996
38	30	HDR UNBIAS	10.642	11.031	0.3886
39	30	HDR UNBIAS	10.324	10.965	0.6412
40	30	HDR UNBIAS	10.206	10.944	0.7386
41	50	HDR BIAS	10.38	10.787	0.4074
42	50	HDR BIAS	10.231	10.739	0.5084
43	50	HDR BIAS	10.413	11.056	0.6427
44	50	HDR BIAS	10.406	10.93	0.5235
45	50	HDR BIAS	10.168	10.885	0.7167
46	50	HDR UNBIAS	10.047	10.778	0.7307
47	50	HDR UNBIAS	10.973	10.987	0.0137
48	50	HDR UNBIAS	10.322	10.64	0.3185
49	50	HDR UNBIAS	10.546	10.95	0.4037
50	50	HDR UNBIAS	10.635	10.727	0.0923
71	0	CORRELATION	10.867	10.96	0.0933
72	0	CORRELATION	10.777	8.9804	-1.7967
73	0	CORRELATION	10.296	10.892	0.5961

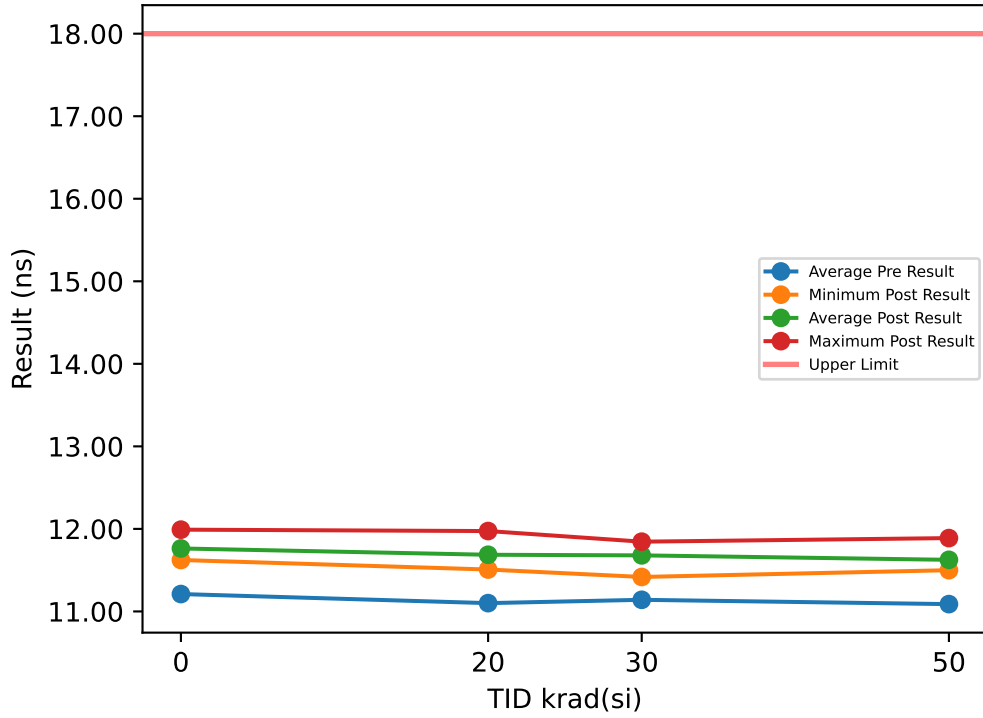
### TID vs Post - Pre Exposure Delta



### Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	10.296	10.647	10.867	0.30732	8.9804	10.278	10.96	1.1239	-1.7967	-0.3691	0.5961	1.2616
20	10.003	10.444	11.1	0.31299	8.7304	10.472	11.034	0.82803	-2.3694	0.02789	0.9412	1.0642
30	10.096	10.356	10.655	0.19311	10.521	10.908	11.085	0.16175	-0.1342	0.55208	0.7386	0.26158
50	10.047	10.412	10.973	0.26194	10.64	10.848	11.056	0.13296	0.0137	0.43576	0.7307	0.24345

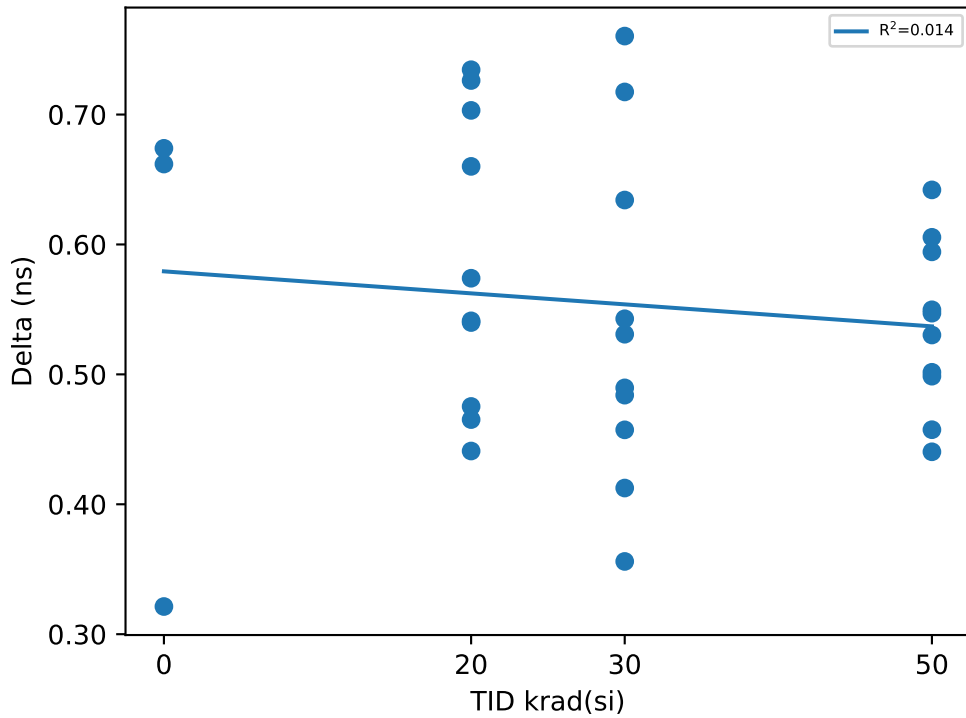
TID vs Result Stats



Test Results (Upper Limit = 18.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	10.966	11.692	0.7262
22	20	HDR BIAS	11.533	11.974	0.441
23	20	HDR BIAS	11.164	11.704	0.5399
24	20	HDR BIAS	10.85	11.51	0.6601
25	20	HDR BIAS	11.194	11.659	0.4652
26	20	HDR UNBIAS	11.21	11.751	0.5412
27	20	HDR UNBIAS	10.905	11.64	0.7345
28	20	HDR UNBIAS	11.243	11.718	0.4753
29	20	HDR UNBIAS	11.137	11.711	0.574
30	20	HDR UNBIAS	10.805	11.508	0.7032
31	30	HDR BIAS	11.423	11.779	0.356
32	30	HDR BIAS	11.135	11.625	0.4896
33	30	HDR BIAS	10.784	11.418	0.6342
34	30	HDR BIAS	11.433	11.845	0.4125
35	30	HDR BIAS	11.088	11.619	0.5309
36	30	HDR UNBIAS	10.776	11.536	0.7604
37	30	HDR UNBIAS	11.326	11.81	0.484
38	30	HDR UNBIAS	11.247	11.79	0.5428
39	30	HDR UNBIAS	10.935	11.652	0.7174
40	30	HDR UNBIAS	11.262	11.72	0.4573
41	50	HDR BIAS	11.045	11.547	0.5016
42	50	HDR BIAS	10.915	11.51	0.5943
43	50	HDR BIAS	11.059	11.5	0.4404
44	50	HDR BIAS	11.082	11.613	0.5303
45	50	HDR BIAS	10.974	11.579	0.6055
46	50	HDR UNBIAS	11.258	11.715	0.4574
47	50	HDR UNBIAS	11.091	11.59	0.4986
48	50	HDR UNBIAS	11.071	11.713	0.642
49	50	HDR UNBIAS	11.339	11.889	0.5497
50	50	HDR UNBIAS	11.052	11.599	0.5471
71	0	CORRELATION	11.317	11.991	0.674
72	0	CORRELATION	10.961	11.623	0.6619
73	0	CORRELATION	11.354	11.675	0.3213

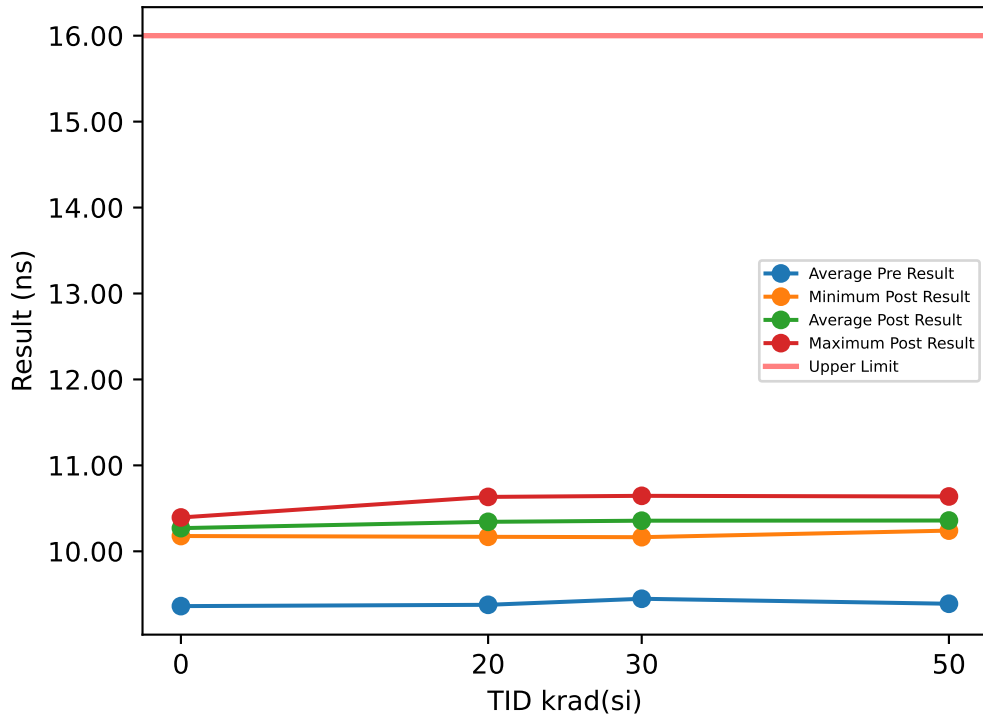
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	10.961	11.211	11.354	0.21672	11.623	11.763	11.991	0.19895	0.3213	0.5524	0.674	0.20023
20	10.805	11.101	11.533	0.2211	11.508	11.687	11.974	0.13116	0.441	0.58606	0.7345	0.11209
30	10.776	11.141	11.433	0.24294	11.418	11.679	11.845	0.13524	0.356	0.53851	0.7604	0.12979
50	10.915	11.089	11.339	0.12414	11.5	11.625	11.889	0.1176	0.4404	0.53669	0.642	0.064724

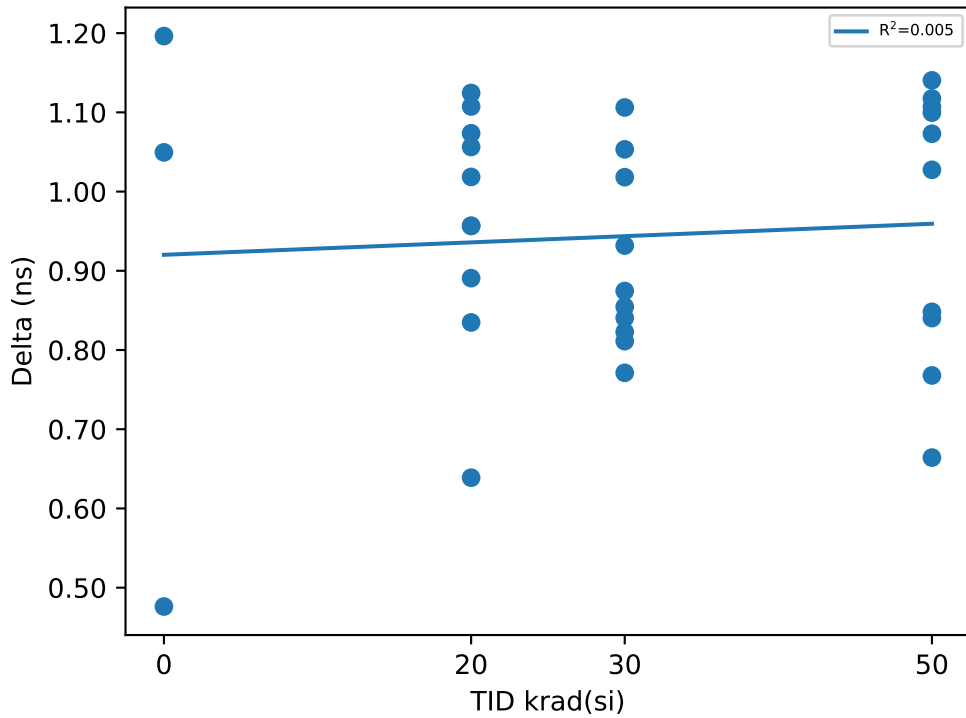
TID vs Result Stats



Test Results (Upper Limit = 16.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	9.278	10.169	0.8907
22	20	HDR BIAS	9.8285	10.467	0.6388
23	20	HDR BIAS	9.2358	10.254	1.0185
24	20	HDR BIAS	9.2078	10.264	1.0563
25	20	HDR BIAS	9.6159	10.573	0.9568
26	20	HDR UNBIAS	9.1457	10.27	1.1245
27	20	HDR UNBIAS	9.3448	10.302	0.9567
28	20	HDR UNBIAS	9.5595	10.633	1.0736
29	20	HDR UNBIAS	9.1629	10.27	1.1074
30	20	HDR UNBIAS	9.3942	10.229	0.8348
31	30	HDR BIAS	9.6309	10.454	0.8229
32	30	HDR BIAS	9.1387	10.245	1.1062
33	30	HDR BIAS	9.3531	10.164	0.8112
34	30	HDR BIAS	9.6515	10.423	0.7712
35	30	HDR BIAS	9.323	10.341	1.0182
36	30	HDR UNBIAS	9.3871	10.228	0.8405
37	30	HDR UNBIAS	9.6381	10.57	0.9319
38	30	HDR UNBIAS	9.2139	10.267	1.0533
39	30	HDR UNBIAS	9.3498	10.224	0.8745
40	30	HDR UNBIAS	9.7909	10.646	0.8546
41	50	HDR BIAS	9.1487	10.289	1.1404
42	50	HDR BIAS	9.6187	10.283	0.6642
43	50	HDR BIAS	9.6481	10.496	0.8482
44	50	HDR BIAS	9.1842	10.284	1.0997
45	50	HDR BIAS	9.4303	10.271	0.8403
46	50	HDR UNBIAS	9.5206	10.638	1.1175
47	50	HDR UNBIAS	9.2507	10.278	1.0275
48	50	HDR UNBIAS	9.1338	10.241	1.107
49	50	HDR UNBIAS	9.775	10.543	0.7679
50	50	HDR UNBIAS	9.1873	10.26	1.073
71	0	CORRELATION	9.1974	10.394	1.1963
72	0	CORRELATION	9.1877	10.237	1.0495
73	0	CORRELATION	9.7016	10.178	0.4762

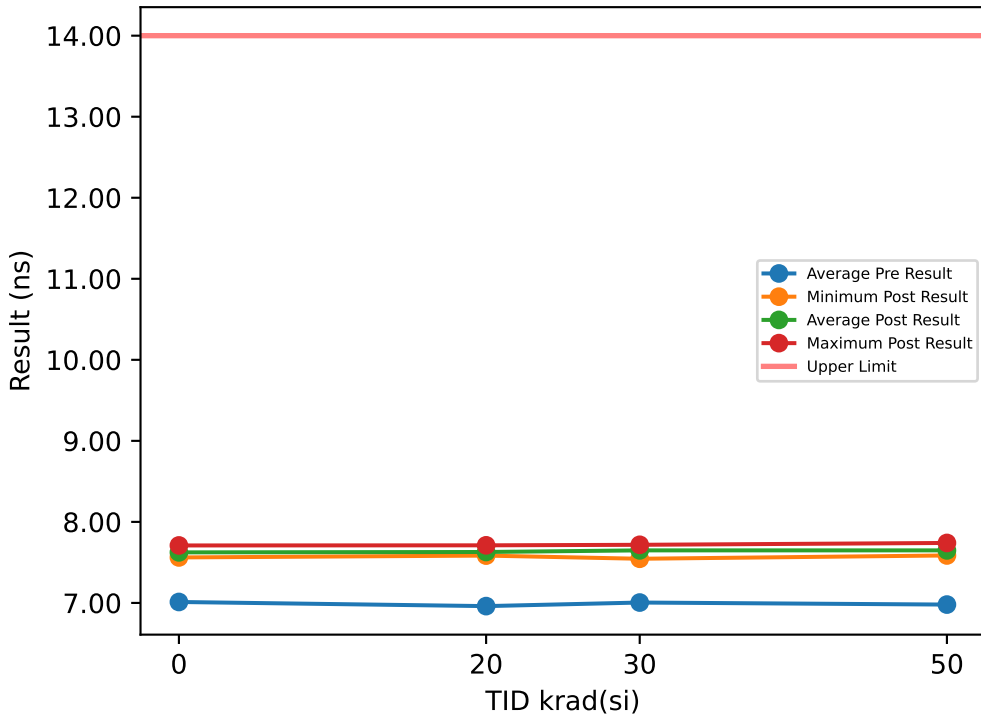
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.1877	9.3622	9.7016	0.29394	10.178	10.27	10.394	0.11153	0.4762	0.90733	1.1963	0.38052
20	9.1457	9.3773	9.8285	0.22442	10.169	10.343	10.633	0.15711	0.6388	0.96581	1.1245	0.14822
30	9.1387	9.4477	9.7909	0.21526	10.164	10.356	10.646	0.16147	0.7712	0.90845	1.1062	0.114
50	9.1338	9.3897	9.775	0.23864	10.241	10.358	10.638	0.14335	0.6642	0.96857	1.1404	0.17201

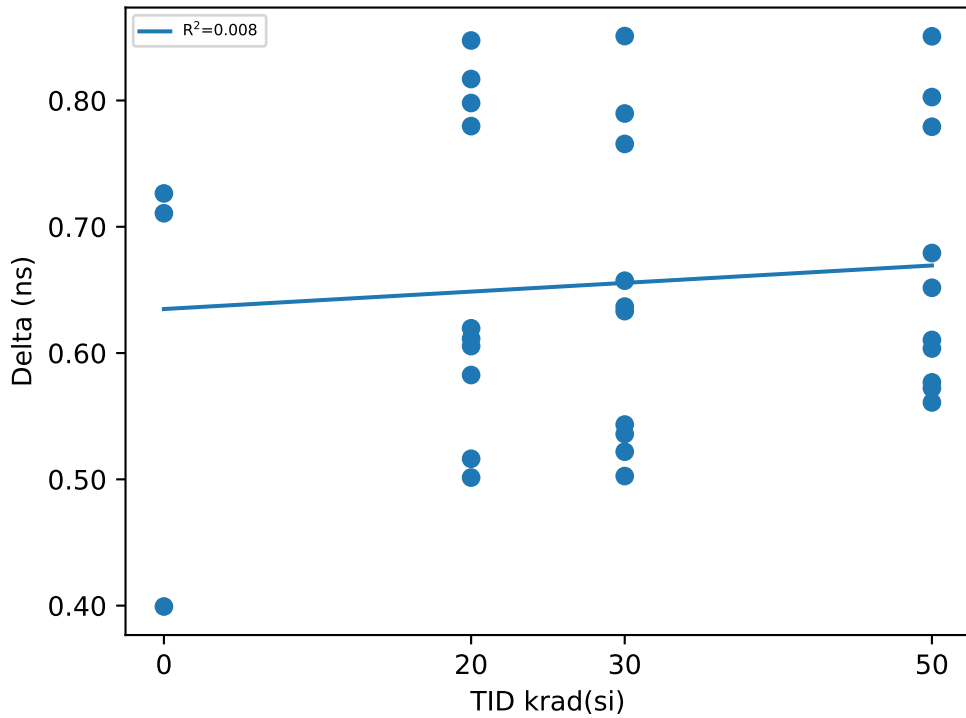
TID vs Result Stats



Test Results (Upper Limit = 14.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.8099	7.5896	0.7797
22	20	HDR BIAS	7.1945	7.7108	0.5163
23	20	HDR BIAS	6.9895	7.6091	0.6196
24	20	HDR BIAS	6.7471	7.5946	0.8475
25	20	HDR BIAS	7.1252	7.6266	0.5014
26	20	HDR UNBIAS	7.0172	7.6227	0.6055
27	20	HDR UNBIAS	6.8062	7.6232	0.817
28	20	HDR UNBIAS	7.1102	7.6928	0.5826
29	20	HDR UNBIAS	7.021	7.6324	0.6114
30	20	HDR UNBIAS	6.7861	7.5841	0.798
31	30	HDR BIAS	7.206	7.7086	0.5026
32	30	HDR BIAS	6.9872	7.624	0.6368
33	30	HDR BIAS	6.7554	7.5451	0.7897
34	30	HDR BIAS	7.1767	7.6986	0.5219
35	30	HDR BIAS	6.9919	7.6251	0.6332
36	30	HDR UNBIAS	6.8201	7.5857	0.7656
37	30	HDR UNBIAS	7.1739	7.7173	0.5434
38	30	HDR UNBIAS	7.0037	7.661	0.6573
39	30	HDR UNBIAS	6.7685	7.6195	0.851
40	30	HDR UNBIAS	7.1653	7.7012	0.5359
41	50	HDR BIAS	6.9754	7.5858	0.6104
42	50	HDR BIAS	6.7426	7.5934	0.8508
43	50	HDR BIAS	7.1185	7.6907	0.5722
44	50	HDR BIAS	7.0316	7.6084	0.5768
45	50	HDR BIAS	6.8025	7.6052	0.8027
46	50	HDR UNBIAS	7.1595	7.7204	0.5609
47	50	HDR UNBIAS	6.9525	7.6317	0.6792
48	50	HDR UNBIAS	6.8391	7.6183	0.7792
49	50	HDR UNBIAS	7.1365	7.7401	0.6036
50	50	HDR UNBIAS	7.0393	7.691	0.6517
71	0	CORRELATION	6.9986	7.7093	0.7107
72	0	CORRELATION	6.8745	7.6009	0.7264
73	0	CORRELATION	7.1621	7.5614	0.3993

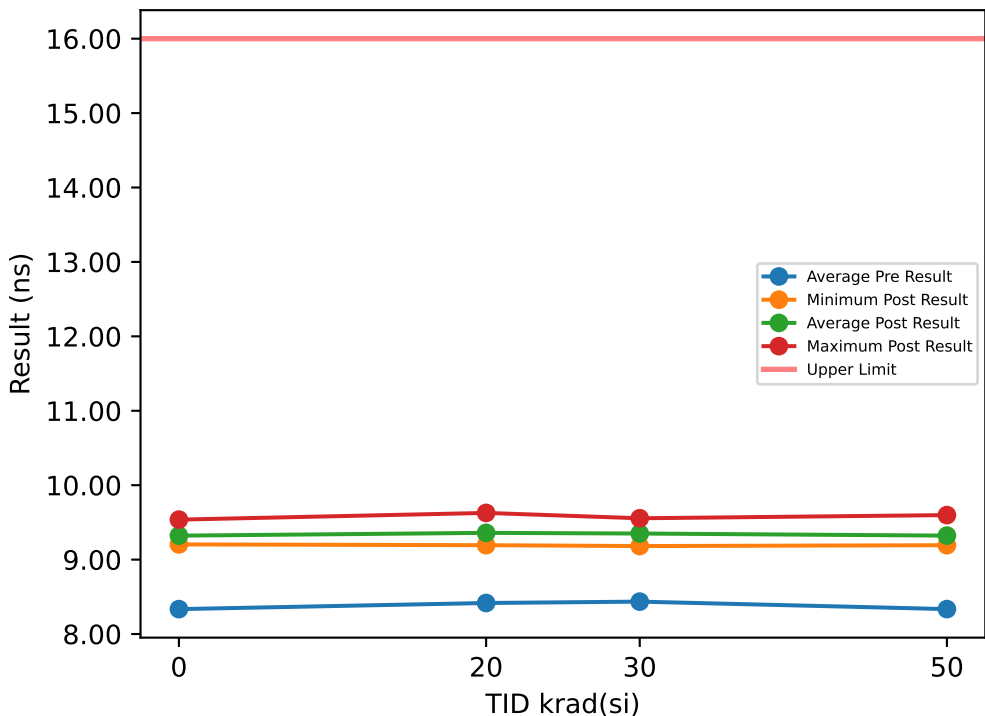
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.8745	7.0117	7.1621	0.14425	7.5614	7.6239	7.7093	0.076578	0.3993	0.61213	0.7264	0.18449
20	6.7471	6.9607	7.1945	0.1614	7.5841	7.6286	7.7108	0.042162	0.5014	0.6679	0.8475	0.12966
30	6.7554	7.0049	7.206	0.17544	7.5451	7.6486	7.7173	0.058131	0.5026	0.64374	0.851	0.12289
50	6.7426	6.9798	7.1595	0.14551	7.5858	7.6485	7.7401	0.05656	0.5609	0.66875	0.8508	0.1058

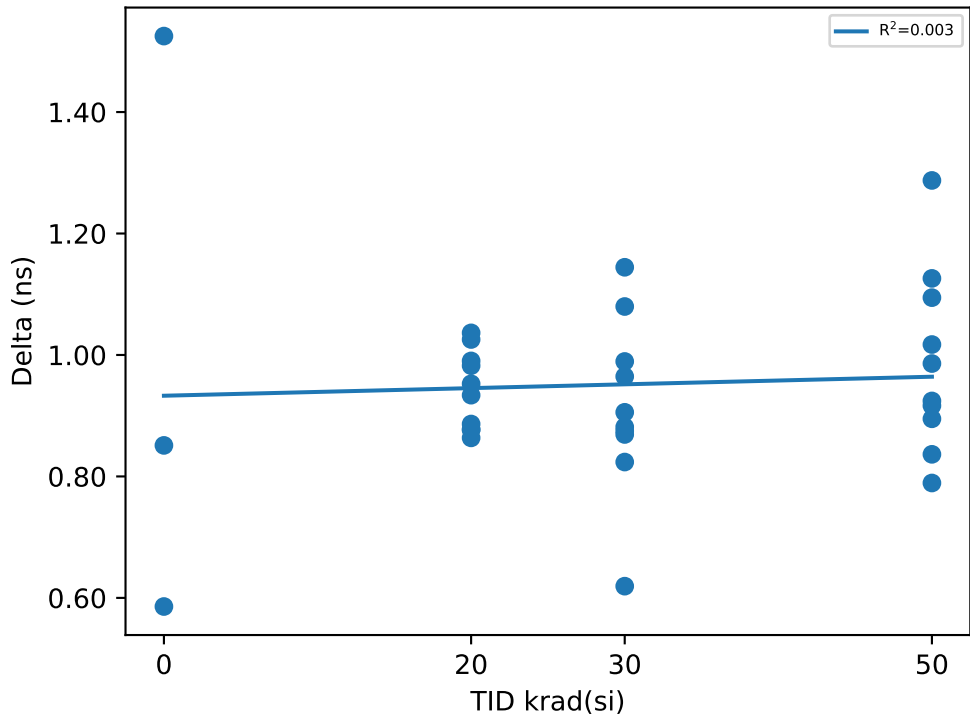
TID vs Result Stats



Test Results (Upper Limit = 16.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	8.3303	9.1938	0.8635
22	20	HDR BIAS	8.6019	9.6274	1.0255
23	20	HDR BIAS	8.3168	9.2506	0.9338
24	20	HDR BIAS	8.3727	9.259	0.8863
25	20	HDR BIAS	8.6287	9.5062	0.8775
26	20	HDR UNBIAS	8.2621	9.2985	1.0364
27	20	HDR UNBIAS	8.3743	9.251	0.8767
28	20	HDR UNBIAS	8.6112	9.6014	0.9902
29	20	HDR UNBIAS	8.3607	9.3132	0.9525
30	20	HDR UNBIAS	8.3101	9.2925	0.9824
31	30	HDR BIAS	8.5788	9.4479	0.8691
32	30	HDR BIAS	8.1338	9.2782	1.1444
33	30	HDR BIAS	8.2338	9.2231	0.9893
34	30	HDR BIAS	8.9361	9.5554	0.6193
35	30	HDR BIAS	8.3277	9.2923	0.9646
36	30	HDR UNBIAS	8.3072	9.1821	0.8749
37	30	HDR UNBIAS	8.5746	9.4802	0.9056
38	30	HDR UNBIAS	8.214	9.2938	1.0798
39	30	HDR UNBIAS	8.4477	9.2714	0.8237
40	30	HDR UNBIAS	8.5993	9.4808	0.8815
41	50	HDR BIAS	8.2324	9.2183	0.9859
42	50	HDR BIAS	8.2692	9.1935	0.9243
43	50	HDR BIAS	8.5164	9.3528	0.8364
44	50	HDR BIAS	8.1914	9.3175	1.1261
45	50	HDR BIAS	8.1448	9.2392	1.0944
46	50	HDR UNBIAS	8.6815	9.5981	0.9166
47	50	HDR UNBIAS	7.9442	9.2316	1.2874
48	50	HDR UNBIAS	8.4454	9.2346	0.7892
49	50	HDR UNBIAS	8.5605	9.5777	1.0172
50	50	HDR UNBIAS	8.3646	9.2595	0.8949
71	0	CORRELATION	8.0121	9.5372	1.5251
72	0	CORRELATION	8.3737	9.2248	0.8511
73	0	CORRELATION	8.6184	9.2042	0.5858

TID vs Post - Pre Exposure Delta

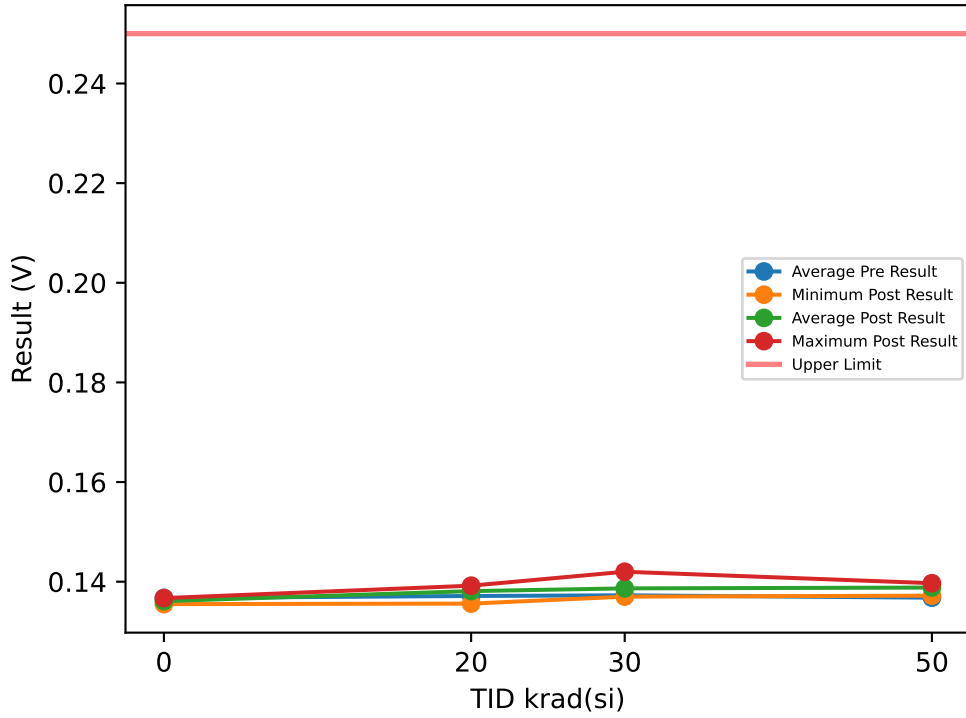


Test Statistics (ns)

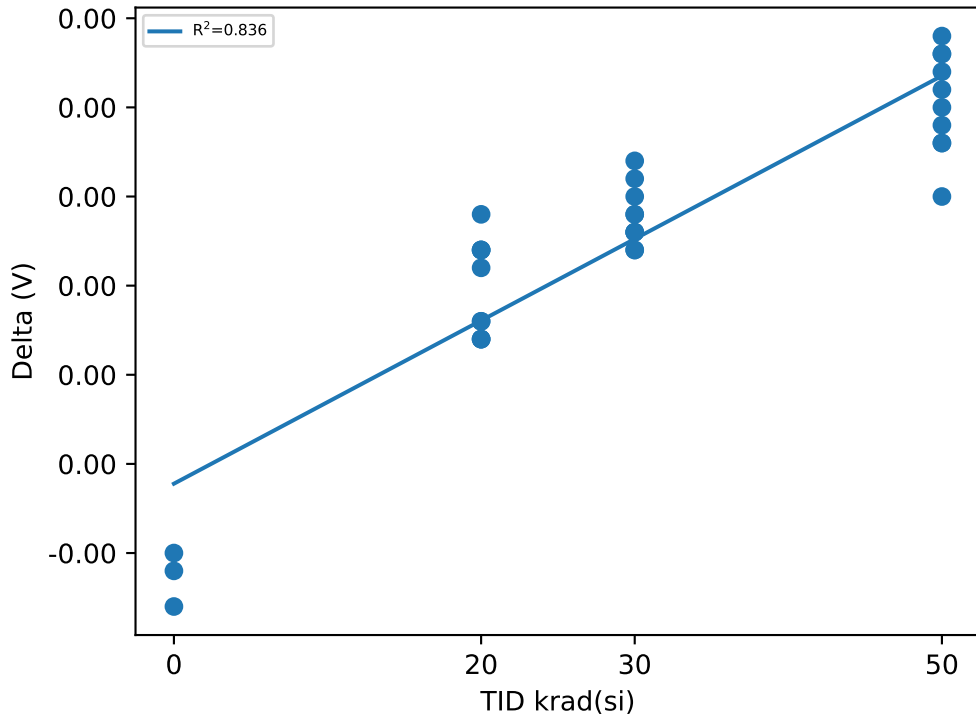
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.0121	8.3347	8.6184	0.30502	9.2042	9.3221	9.5372	0.1866	0.5858	0.98733	1.5251	0.48424
20	8.2621	8.4169	8.6287	0.1401	9.1938	9.3594	9.6274	0.15753	0.8635	0.94248	1.0364	0.064724
30	8.1338	8.4353	8.9361	0.24182	9.1821	9.3505	9.5554	0.12821	0.6193	0.91522	1.1444	0.14471
50	7.9442	8.335	8.6815	0.22142	9.1935	9.3223	9.5981	0.14773	0.7892	0.98724	1.2874	0.14952

# Device Test: 24.2 LEVEL|HIGH\_LEVEL/OUTH/4.5/4.5/0/0/4.5/500kHz//@OUT\_VOH

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Upper Limit = 0.25 (V))

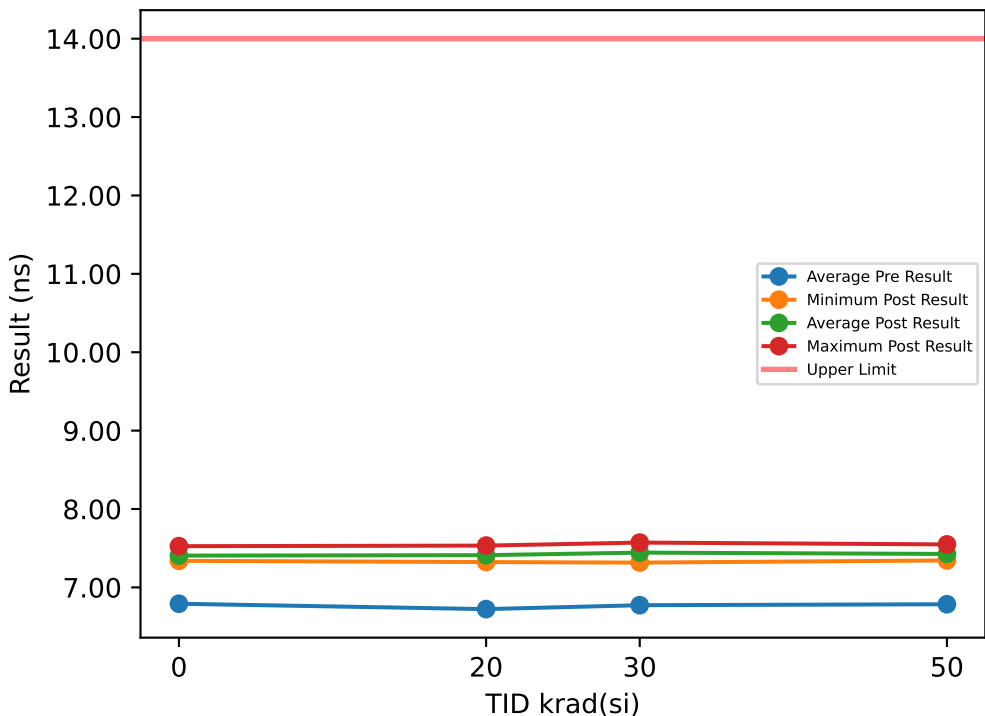
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1376	0.1388	0.0012
22	20	HDR BIAS	0.1366	0.1374	0.0008
23	20	HDR BIAS	0.1377	0.1384	0.0007
24	20	HDR BIAS	0.1378	0.1392	0.0014
25	20	HDR BIAS	0.1358	0.137	0.0012
26	20	HDR UNBIAS	0.1382	0.1389	0.0007
27	20	HDR UNBIAS	0.1378	0.139	0.0012
28	20	HDR UNBIAS	0.1349	0.1356	0.0007
29	20	HDR UNBIAS	0.1383	0.1391	0.0008
30	20	HDR UNBIAS	0.1366	0.1377	0.0011
31	30	HDR BIAS	0.1405	0.142	0.0015
32	30	HDR BIAS	0.1379	0.1392	0.0013
33	30	HDR BIAS	0.1354	0.137	0.0016
34	30	HDR BIAS	0.1357	0.1371	0.0014
35	30	HDR BIAS	0.1366	0.1378	0.0012
36	30	HDR UNBIAS	0.1364	0.1378	0.0014
37	30	HDR UNBIAS	0.1373	0.1386	0.0013
38	30	HDR UNBIAS	0.1376	0.1388	0.0012
39	30	HDR UNBIAS	0.1374	0.1391	0.0017
40	30	HDR UNBIAS	0.1379	0.1392	0.0013
41	50	HDR BIAS	0.1364	0.1383	0.0019
42	50	HDR BIAS	0.1374	0.1397	0.0023
43	50	HDR BIAS	0.1354	0.1372	0.0018
44	50	HDR BIAS	0.1376	0.1396	0.002
45	50	HDR BIAS	0.1372	0.1395	0.0023
46	50	HDR UNBIAS	0.1379	0.1397	0.0018
47	50	HDR UNBIAS	0.1366	0.1381	0.0015
48	50	HDR UNBIAS	0.1366	0.1387	0.0021
49	50	HDR UNBIAS	0.1366	0.139	0.0024
50	50	HDR UNBIAS	0.1362	0.1384	0.0022
71	0	CORRELATION	0.1363	0.1355	-0.0008
72	0	CORRELATION	0.1366	0.1361	-0.0005
73	0	CORRELATION	0.1373	0.1367	-0.0006

### 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	0.1363	0.13673	0.1373	0.00051316	0.1355	0.1361	0.1367	0.0006	-0.0008	-0.00063333	-0.0005	0.00015275
20	0.1349	0.13713	0.1383	0.0011186	0.1356	0.13811	0.1392	0.0011714	0.0007	0.00098	0.0014	0.00026583
30	0.1354	0.13727	0.1405	0.0014345	0.137	0.13866	0.142	0.0014385	0.0012	0.00139	0.0017	0.00016633
50	0.1354	0.13679	0.1379	0.00074304	0.1372	0.13882	0.1397	0.00083373	0.0015	0.00203	0.0024	0.00028304



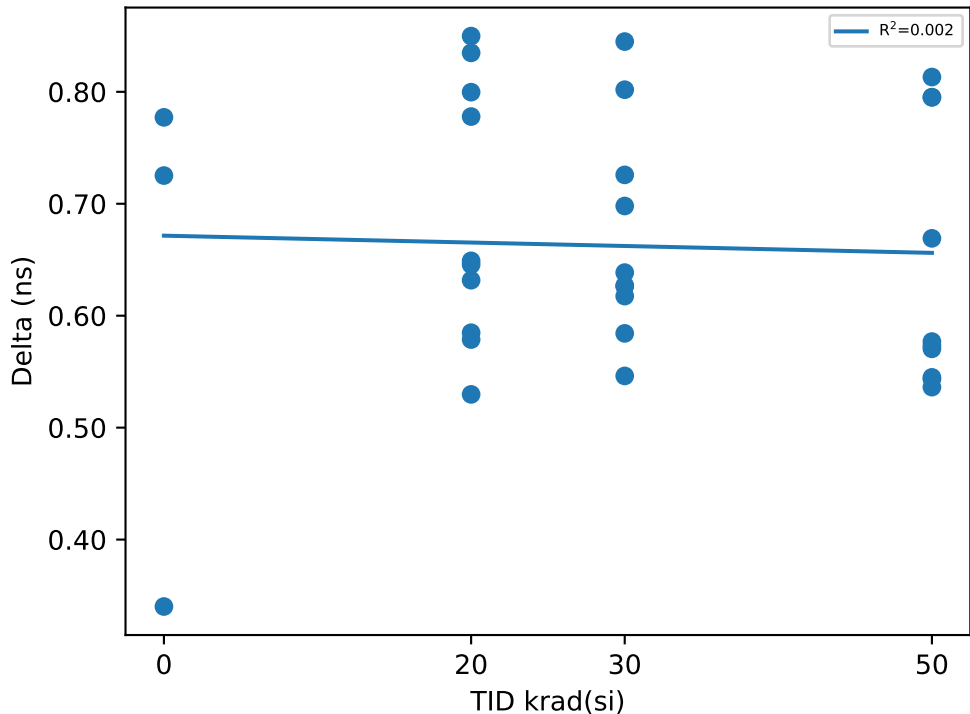
TID vs Result Stats



Test Results (Upper Limit = 14.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.5217	7.3565	0.8348
22	20	HDR BIAS	7.0034	7.5331	0.5297
23	20	HDR BIAS	6.778	7.4097	0.6317
24	20	HDR BIAS	6.5862	7.3641	0.7779
25	20	HDR BIAS	6.8823	7.4671	0.5848
26	20	HDR UNBIAS	6.7442	7.3898	0.6456
27	20	HDR UNBIAS	6.5658	7.3655	0.7997
28	20	HDR UNBIAS	6.9169	7.4956	0.5787
29	20	HDR UNBIAS	6.7571	7.4061	0.649
30	20	HDR UNBIAS	6.4732	7.323	0.8498
31	30	HDR BIAS	6.9314	7.5584	0.627
32	30	HDR BIAS	6.7451	7.3836	0.6385
33	30	HDR BIAS	6.5377	7.3396	0.8019
34	30	HDR BIAS	6.9632	7.5094	0.5462
35	30	HDR BIAS	6.777	7.4032	0.6262
36	30	HDR UNBIAS	6.6184	7.3164	0.698
37	30	HDR UNBIAS	6.9543	7.5718	0.6175
38	30	HDR UNBIAS	6.7109	7.4367	0.7258
39	30	HDR UNBIAS	6.5364	7.3813	0.8449
40	30	HDR UNBIAS	6.9526	7.5368	0.5842
41	50	HDR BIAS	6.7705	7.3437	0.5732
42	50	HDR BIAS	6.5733	7.3684	0.7951
43	50	HDR BIAS	6.9022	7.4726	0.5704
44	50	HDR BIAS	6.8381	7.415	0.5769
45	50	HDR BIAS	6.5889	7.4021	0.8132
46	50	HDR UNBIAS	6.9949	7.5383	0.5434
47	50	HDR UNBIAS	6.8372	7.3821	0.5449
48	50	HDR UNBIAS	6.5801	7.3753	0.7952
49	50	HDR UNBIAS	7.0122	7.5484	0.5362
50	50	HDR UNBIAS	6.7523	7.4214	0.6691
71	0	CORRELATION	6.8007	7.5259	0.7252
72	0	CORRELATION	6.5618	7.339	0.7772
73	0	CORRELATION	7.0118	7.352	0.3402

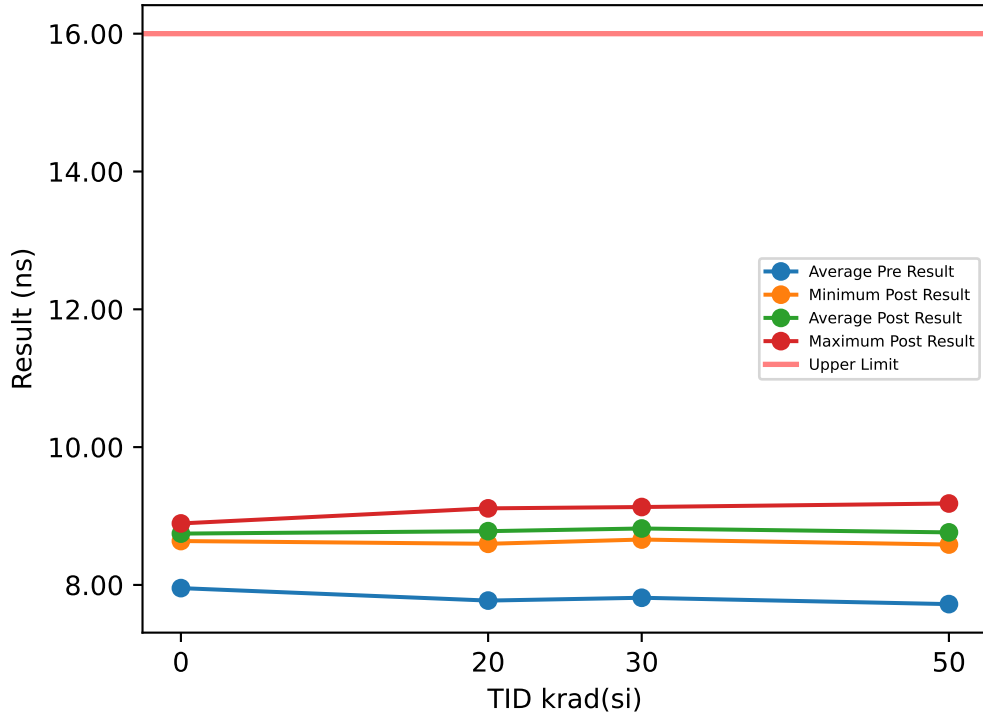
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.5618	6.7914	7.0118	0.22514	7.339	7.4056	7.5259	0.10436	0.3402	0.6142	0.7772	0.23871
20	6.4732	6.7229	7.0034	0.1803	7.323	7.4111	7.5331	0.067224	0.5297	0.68817	0.8498	0.11663
30	6.5364	6.7727	6.9632	0.17201	7.3164	7.4437	7.5718	0.093563	0.5462	0.67102	0.8449	0.095498
50	6.5733	6.785	7.0122	0.16381	7.3437	7.4267	7.5484	0.070759	0.5362	0.64176	0.8132	0.11614

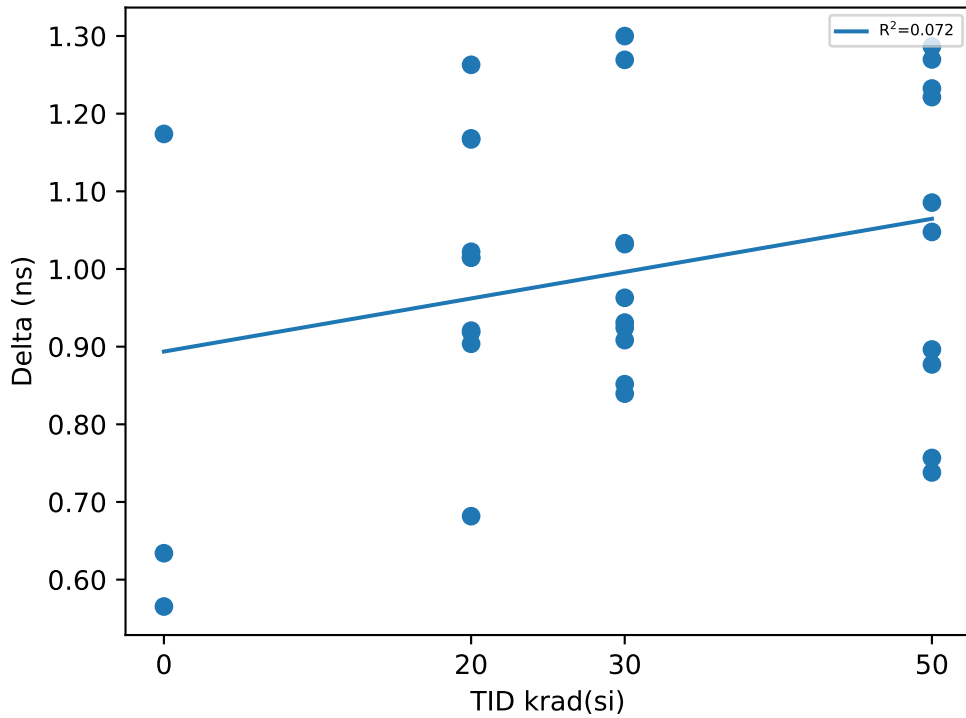
TID vs Result Stats



Test Results (Upper Limit = 16.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.9152	8.5969	0.6817
22	20	HDR BIAS	7.8802	9.0484	1.1682
23	20	HDR BIAS	7.5353	8.7021	1.1668
24	20	HDR BIAS	7.6546	8.6692	1.0146
25	20	HDR BIAS	7.9815	8.9021	0.9206
26	20	HDR UNBIAS	7.6684	8.6831	1.0147
27	20	HDR UNBIAS	7.7552	8.6738	0.9186
28	20	HDR UNBIAS	8.0891	9.1113	1.0222
29	20	HDR UNBIAS	7.4772	8.7401	1.2629
30	20	HDR UNBIAS	7.7715	8.6752	0.9037
31	30	HDR BIAS	8.0111	8.974	0.9629
32	30	HDR BIAS	7.44	8.7093	1.2693
33	30	HDR BIAS	7.8081	8.6598	0.8517
34	30	HDR BIAS	7.9045	8.9365	1.032
35	30	HDR BIAS	7.4166	8.7165	1.2999
36	30	HDR UNBIAS	7.8192	8.6587	0.8395
37	30	HDR UNBIAS	8.2222	9.1306	0.9084
38	30	HDR UNBIAS	7.7014	8.7346	1.0332
39	30	HDR UNBIAS	7.7725	8.6968	0.9243
40	30	HDR UNBIAS	8.0422	8.9732	0.931
41	50	HDR BIAS	7.3898	8.6763	1.2865
42	50	HDR BIAS	7.7718	8.6489	0.8771
43	50	HDR BIAS	7.8405	8.926	1.0855
44	50	HDR BIAS	7.6238	8.6715	1.0477
45	50	HDR BIAS	7.7608	8.6572	0.8964
46	50	HDR UNBIAS	8.1602	8.8982	0.738
47	50	HDR UNBIAS	7.4415	8.7113	1.2698
48	50	HDR UNBIAS	7.8295	8.5862	0.7567
49	50	HDR UNBIAS	7.9604	9.1817	1.2213
50	50	HDR UNBIAS	7.4375	8.6699	1.2324
71	0	CORRELATION	7.7185	8.8924	1.1739
72	0	CORRELATION	8.0715	8.7055	0.634
73	0	CORRELATION	8.0715	8.6369	0.5654

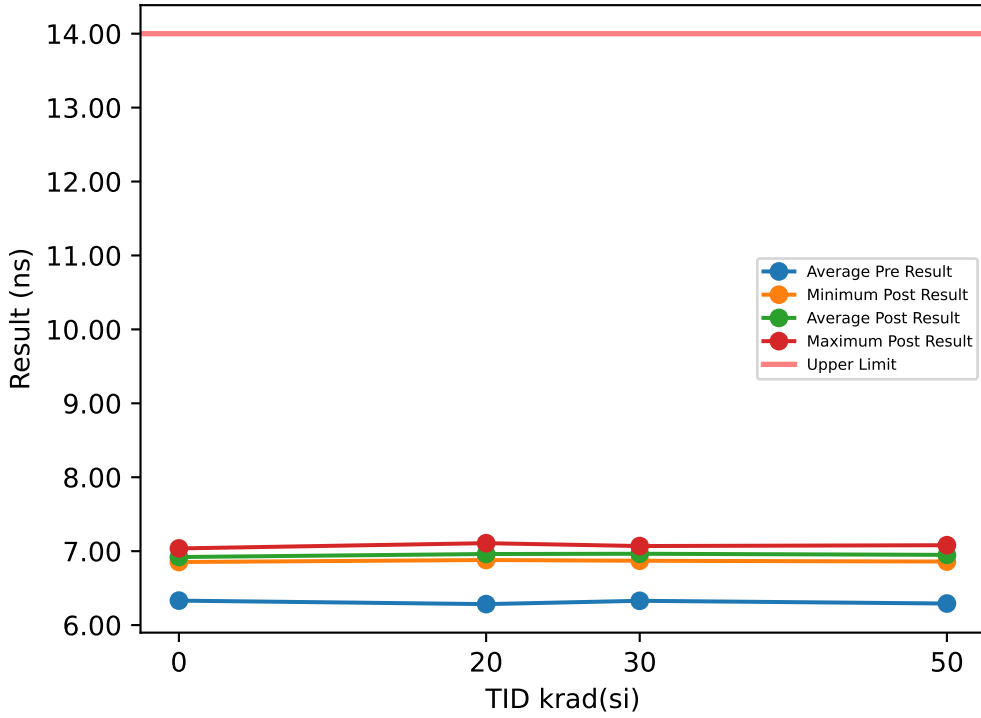
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.7185	7.9538	8.0715	0.2038	8.6369	8.7449	8.8924	0.13224	0.5654	0.7911	1.1739	0.33328
20	7.4772	7.7728	8.0891	0.19561	8.5969	8.7802	9.1113	0.17696	0.6817	1.0074	1.2629	0.16637
30	7.4166	7.8138	8.2222	0.25342	8.6587	8.819	9.1306	0.16811	0.8395	1.0052	1.2999	0.16067
50	7.3898	7.7216	8.1602	0.24901	8.5862	8.7627	9.1817	0.18344	0.738	1.0411	1.2865	0.21192

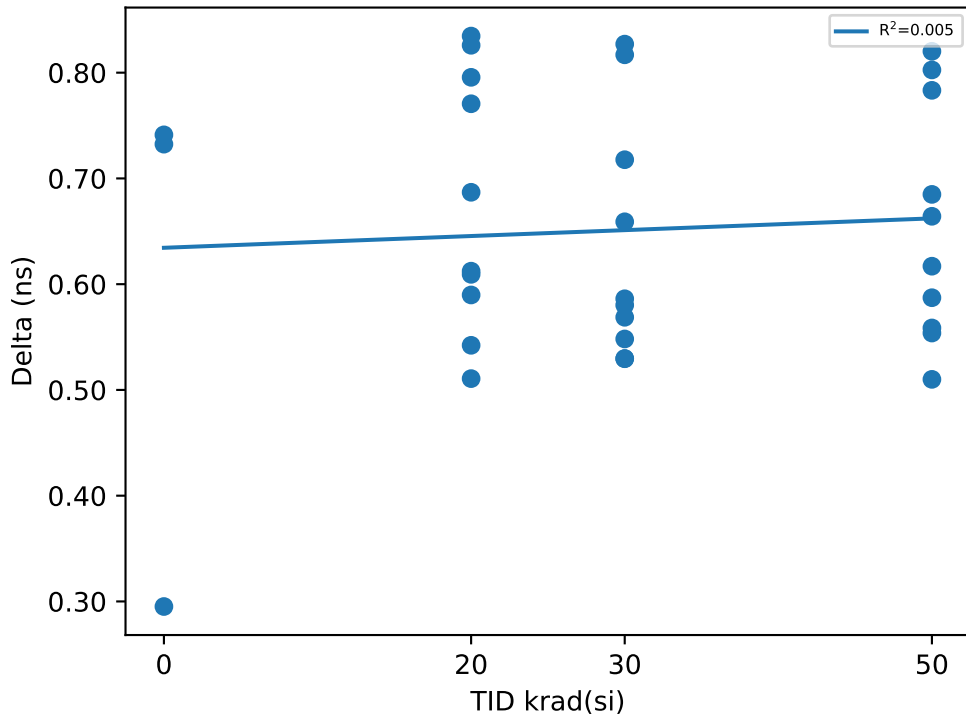
TID vs Result Stats



Test Results (Upper Limit = 14.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.1021	6.9367	0.8346
22	20	HDR BIAS	6.5659	7.1081	0.5422
23	20	HDR BIAS	6.3246	6.9144	0.5898
24	20	HDR BIAS	6.1627	6.9333	0.7706
25	20	HDR BIAS	6.4113	7.0236	0.6123
26	20	HDR UNBIAS	6.2411	6.928	0.6869
27	20	HDR UNBIAS	6.1042	6.9301	0.8259
28	20	HDR UNBIAS	6.5222	7.0329	0.5107
29	20	HDR UNBIAS	6.3188	6.9281	0.6093
30	20	HDR UNBIAS	6.0847	6.8803	0.7956
31	30	HDR BIAS	6.5011	7.0308	0.5297
32	30	HDR BIAS	6.3213	6.9075	0.5862
33	30	HDR BIAS	6.0474	6.8744	0.827
34	30	HDR BIAS	6.521	7.0692	0.5482
35	30	HDR BIAS	6.3529	6.9216	0.5687
36	30	HDR UNBIAS	6.1526	6.8703	0.7177
37	30	HDR UNBIAS	6.527	7.0565	0.5295
38	30	HDR UNBIAS	6.292	6.951	0.659
39	30	HDR UNBIAS	6.1267	6.9436	0.8169
40	30	HDR UNBIAS	6.4441	7.0243	0.5802
41	50	HDR BIAS	6.2486	6.9128	0.6642
42	50	HDR BIAS	6.0767	6.8793	0.8026
43	50	HDR BIAS	6.4012	6.9884	0.5872
44	50	HDR BIAS	6.3067	6.9237	0.617
45	50	HDR BIAS	6.1664	6.9497	0.7833
46	50	HDR UNBIAS	6.5221	7.0807	0.5586
47	50	HDR UNBIAS	6.3056	6.8594	0.5538
48	50	HDR UNBIAS	6.112	6.9322	0.8202
49	50	HDR UNBIAS	6.5579	7.0679	0.51
50	50	HDR UNBIAS	6.2197	6.9046	0.6849
71	0	CORRELATION	6.2959	7.0371	0.7412
72	0	CORRELATION	6.1205	6.8529	0.7324
73	0	CORRELATION	6.5764	6.8716	0.2952

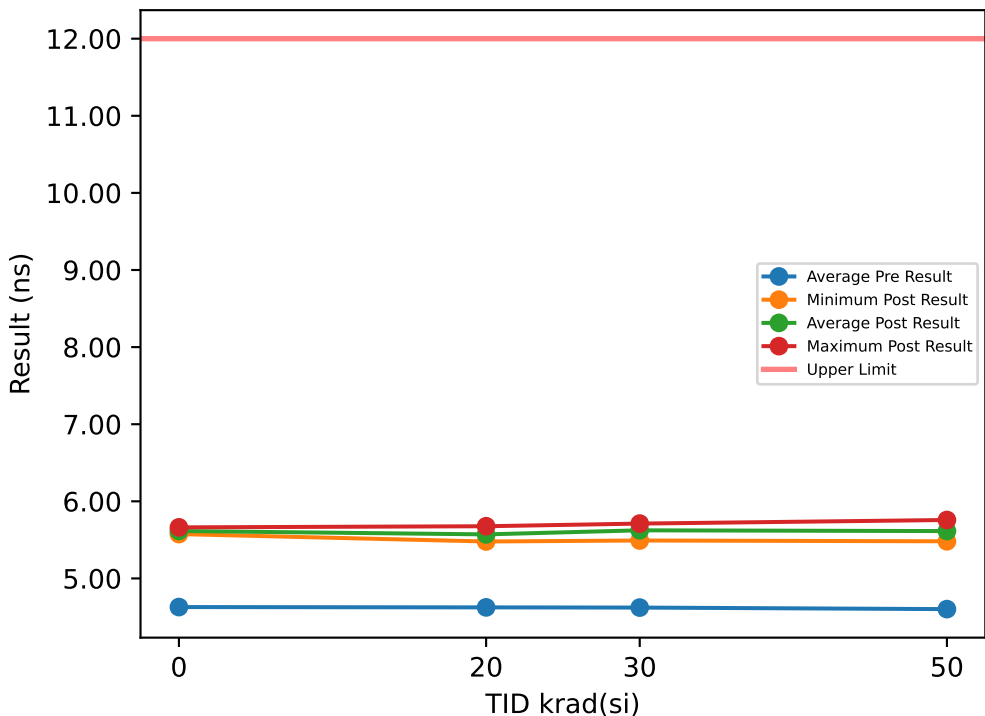
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.1205	6.3309	6.5764	0.22996	6.8529	6.9205	7.0371	0.10138	0.2952	0.5896	0.7412	0.255
20	6.0847	6.2838	6.5659	0.17542	6.8803	6.9615	7.1081	0.069835	0.5107	0.67779	0.8346	0.12116
30	6.0474	6.3286	6.527	0.17393	6.8703	6.9649	7.0692	0.074607	0.5295	0.63631	0.827	0.11396
50	6.0767	6.2917	6.5579	0.16249	6.8594	6.9499	7.0807	0.074623	0.51	0.65818	0.8202	0.11206

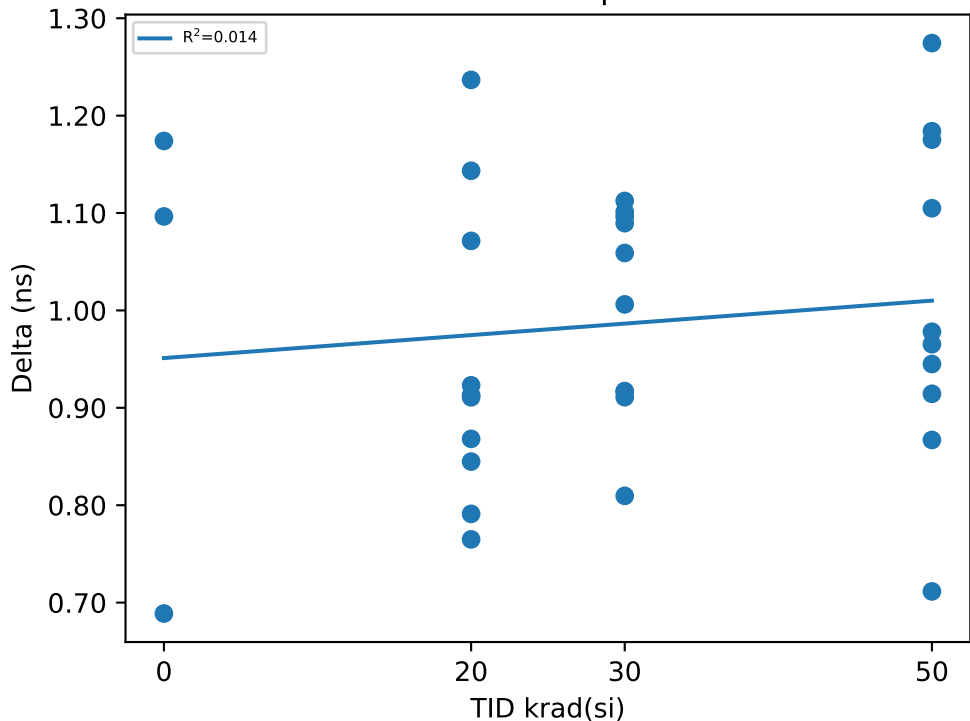
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.7142	5.4791	0.7649
22	20	HDR BIAS	4.6546	5.5676	0.913
23	20	HDR BIAS	4.4755	5.6189	1.1434
24	20	HDR BIAS	4.6433	5.5114	0.8681
25	20	HDR BIAS	4.6657	5.5888	0.9231
26	20	HDR UNBIAS	4.3502	5.5869	1.2367
27	20	HDR UNBIAS	4.5838	5.4946	0.9108
28	20	HDR UNBIAS	4.6055	5.6769	1.0714
29	20	HDR UNBIAS	4.7974	5.6422	0.8448
30	20	HDR UNBIAS	4.7552	5.5463	0.7911
31	30	HDR BIAS	4.5447	5.6037	1.059
32	30	HDR BIAS	4.587	5.6994	1.1124
33	30	HDR BIAS	4.6435	5.5607	0.9172
34	30	HDR BIAS	4.6303	5.6365	1.0062
35	30	HDR BIAS	4.5255	5.6218	1.0963
36	30	HDR UNBIAS	4.7453	5.5549	0.8096
37	30	HDR UNBIAS	4.5552	5.6564	1.1012
38	30	HDR UNBIAS	4.7867	5.703	0.9163
39	30	HDR UNBIAS	4.5811	5.492	0.9109
40	30	HDR UNBIAS	4.6217	5.7113	1.0896
41	50	HDR BIAS	4.3974	5.5814	1.184
42	50	HDR BIAS	4.7702	5.4817	0.7115
43	50	HDR BIAS	4.5216	5.6265	1.1049
44	50	HDR BIAS	4.7468	5.6918	0.945
45	50	HDR BIAS	4.6155	5.5299	0.9144
46	50	HDR UNBIAS	4.7065	5.6718	0.9653
47	50	HDR UNBIAS	4.4096	5.6841	1.2745
48	50	HDR UNBIAS	4.653	5.52	0.867
49	50	HDR UNBIAS	4.7798	5.7579	0.9781
50	50	HDR UNBIAS	4.4205	5.5958	1.1753
71	0	CORRELATION	4.919	5.6078	0.6888
72	0	CORRELATION	4.5658	5.6623	1.0965
73	0	CORRELATION	4.4012	5.5752	1.174

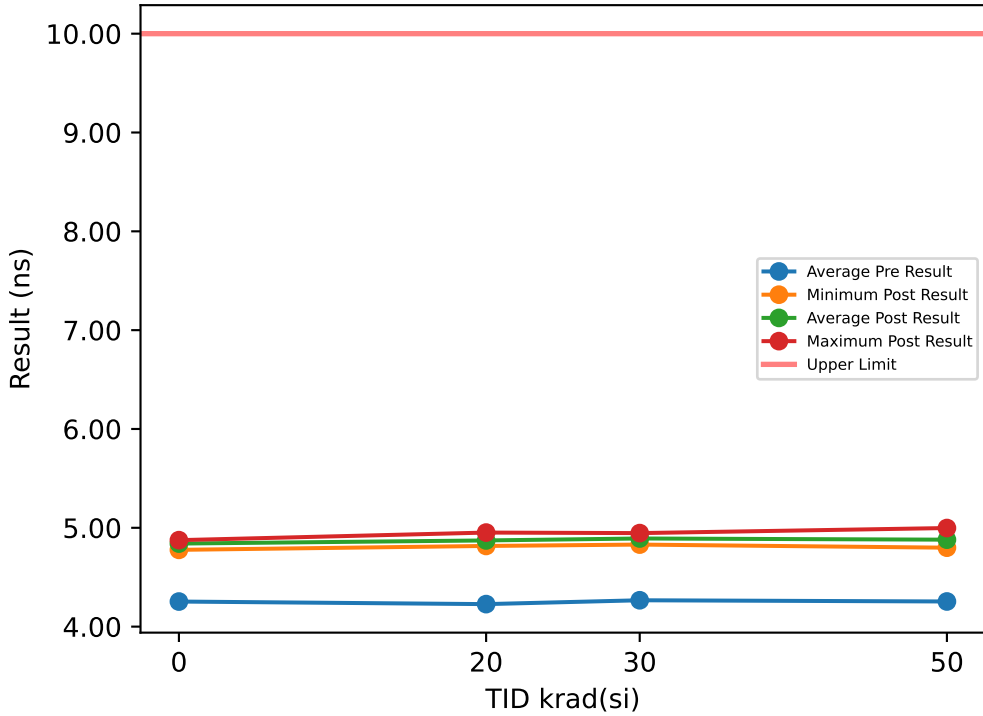
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.4012	4.6287	4.919	0.26456	5.5752	5.6151	5.6623	0.044006	0.6888	0.98643	1.174	0.26065
20	4.3502	4.6245	4.7974	0.13226	5.4791	5.5713	5.6769	0.064639	0.7649	0.94673	1.2367	0.15461
30	4.5255	4.6221	4.7867	0.085315	5.492	5.624	5.7113	0.072553	0.8096	1.0019	1.1124	0.10631
50	4.3974	4.6021	4.7798	0.15379	5.4817	5.6141	5.7579	0.088177	0.7115	1.012	1.2745	0.17077

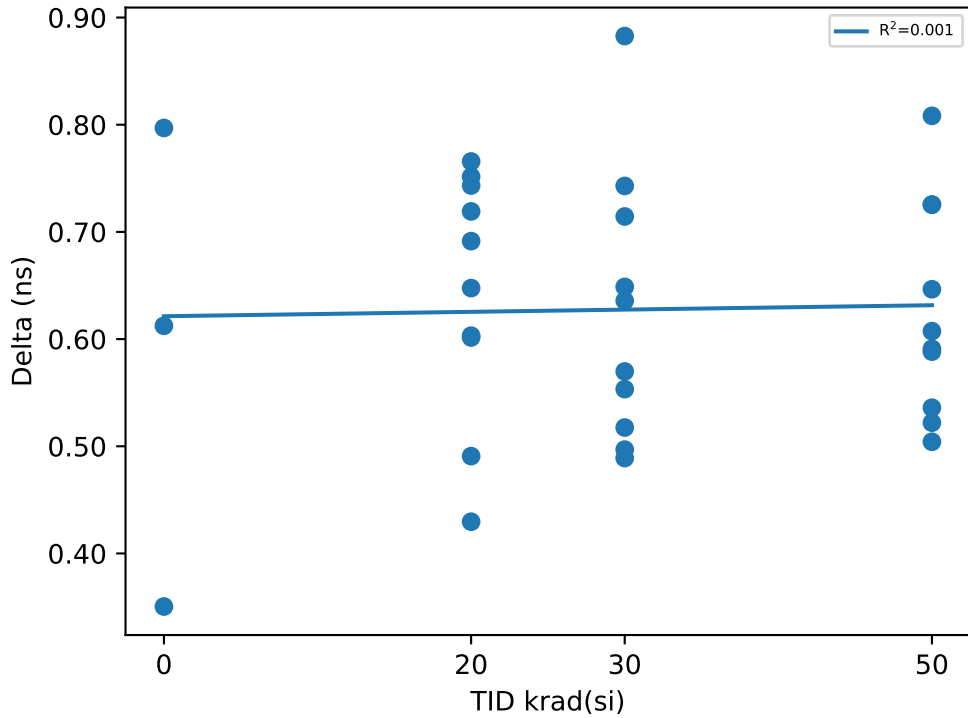
TID vs Result Stats



Test Results (Upper Limit = 10.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.0507	4.8164	0.7657
22	20	HDR BIAS	4.3967	4.8875	0.4908
23	20	HDR BIAS	4.1562	4.8753	0.7191
24	20	HDR BIAS	4.0745	4.826	0.7515
25	20	HDR BIAS	4.5221	4.9517	0.4296
26	20	HDR UNBIAS	4.2682	4.8697	0.6015
27	20	HDR UNBIAS	4.1292	4.8206	0.6914
28	20	HDR UNBIAS	4.3353	4.9385	0.6032
29	20	HDR UNBIAS	4.262	4.9096	0.6476
30	20	HDR UNBIAS	4.0827	4.826	0.7433
31	30	HDR BIAS	4.393	4.9463	0.5533
32	30	HDR BIAS	4.3063	4.8761	0.5698
33	30	HDR BIAS	4.1865	4.9009	0.7144
34	30	HDR BIAS	4.4027	4.8917	0.489
35	30	HDR BIAS	4.2569	4.8927	0.6358
36	30	HDR UNBIAS	4.1096	4.8525	0.7429
37	30	HDR UNBIAS	4.4044	4.9219	0.5175
38	30	HDR UNBIAS	4.2474	4.8961	0.6487
39	30	HDR UNBIAS	3.9475	4.8302	0.8827
40	30	HDR UNBIAS	4.4127	4.9096	0.4969
41	50	HDR BIAS	4.264	4.8714	0.6074
42	50	HDR BIAS	4.0733	4.7988	0.7255
43	50	HDR BIAS	4.4934	4.9976	0.5042
44	50	HDR BIAS	4.2845	4.8205	0.536
45	50	HDR BIAS	4.0956	4.821	0.7254
46	50	HDR UNBIAS	4.4313	4.9533	0.522
47	50	HDR UNBIAS	4.279	4.8673	0.5883
48	50	HDR UNBIAS	4.0175	4.8258	0.8083
49	50	HDR UNBIAS	4.3782	4.9692	0.591
50	50	HDR UNBIAS	4.2276	4.8741	0.6465
71	0	CORRELATION	4.2625	4.8749	0.6124
72	0	CORRELATION	4.0724	4.8694	0.797
73	0	CORRELATION	4.4264	4.7769	0.3505

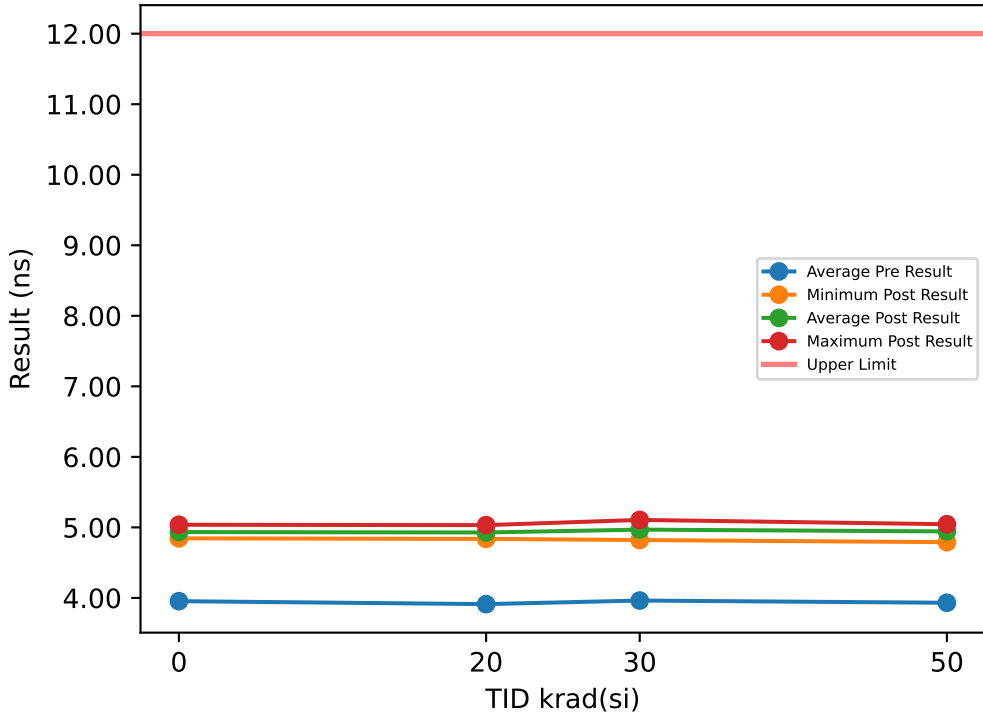
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.0724	4.2538	4.4264	0.17716	4.7769	4.8404	4.8749	0.055061	0.3505	0.58663	0.797	0.22436
20	4.0507	4.2278	4.5221	0.15644	4.8164	4.8721	4.9517	0.0499	0.4296	0.64437	0.7657	0.11403
30	3.9475	4.2667	4.4127	0.15267	4.8302	4.8918	4.9463	0.033134	0.489	0.6251	0.8827	0.12633
50	4.0175	4.2544	4.4934	0.15642	4.7988	4.8799	4.9976	0.069906	0.5042	0.62546	0.8083	0.1001

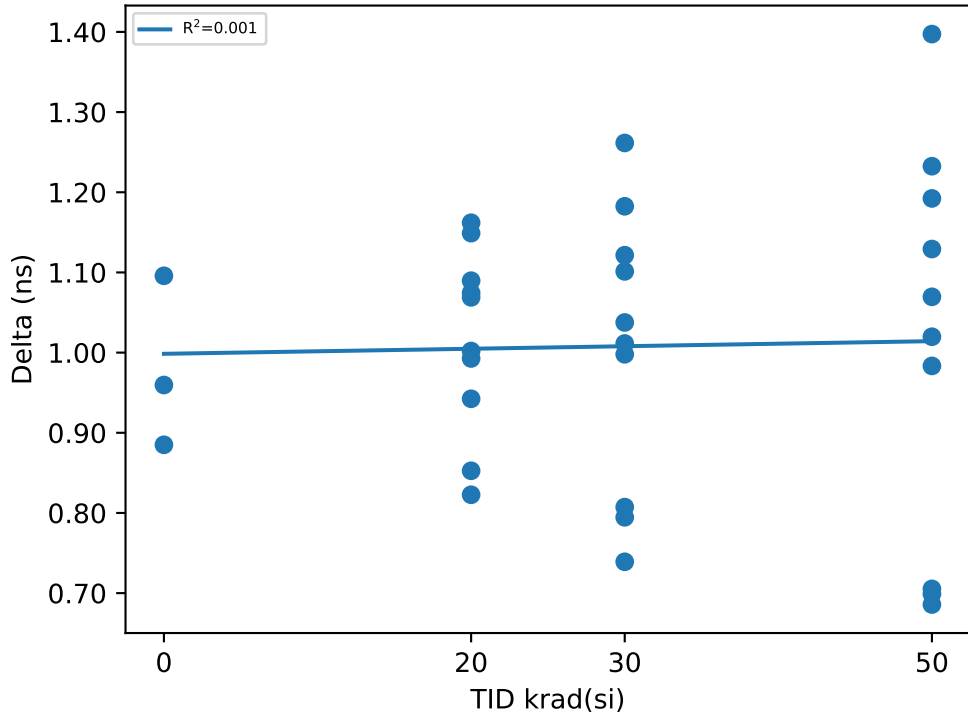
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.9526	4.895	0.9424
22	20	HDR BIAS	3.8821	4.951	1.0689
23	20	HDR BIAS	3.7319	4.8939	1.162
24	20	HDR BIAS	3.9304	4.9324	1.002
25	20	HDR BIAS	3.7697	4.9187	1.149
26	20	HDR UNBIAS	3.8842	4.9587	1.0745
27	20	HDR UNBIAS	4.0143	4.837	0.8227
28	20	HDR UNBIAS	4.0294	4.882	0.8526
29	20	HDR UNBIAS	3.9426	5.0323	1.0897
30	20	HDR UNBIAS	3.9867	4.9794	0.9927
31	30	HDR BIAS	3.9479	4.9593	1.0114
32	30	HDR BIAS	3.9425	5.0438	1.1013
33	30	HDR BIAS	4.1483	4.8874	0.7391
34	30	HDR BIAS	3.9022	4.9398	1.0376
35	30	HDR BIAS	3.8862	5.0077	1.1215
36	30	HDR UNBIAS	4.0537	4.8483	0.7946
37	30	HDR UNBIAS	3.8448	5.1063	1.2615
38	30	HDR UNBIAS	4.0176	5.0155	0.9979
39	30	HDR UNBIAS	4.0135	4.8208	0.8073
40	30	HDR UNBIAS	3.8728	5.0553	1.1825
41	50	HDR BIAS	3.7468	4.9391	1.1923
42	50	HDR BIAS	4.0855	4.7908	0.7053
43	50	HDR BIAS	3.7393	4.9718	1.2325
44	50	HDR BIAS	3.9144	4.984	1.0696
45	50	HDR BIAS	4.1751	4.8609	0.6858
46	50	HDR UNBIAS	3.8995	4.9193	1.0198
47	50	HDR UNBIAS	3.9159	5.0451	1.1292
48	50	HDR UNBIAS	4.2019	4.9009	0.699
49	50	HDR UNBIAS	3.9925	4.9759	0.9834
50	50	HDR UNBIAS	3.6461	5.0434	1.3973
71	0	CORRELATION	3.8241	4.9199	1.0958
72	0	CORRELATION	4.1523	5.0373	0.885
73	0	CORRELATION	3.8852	4.8448	0.9596

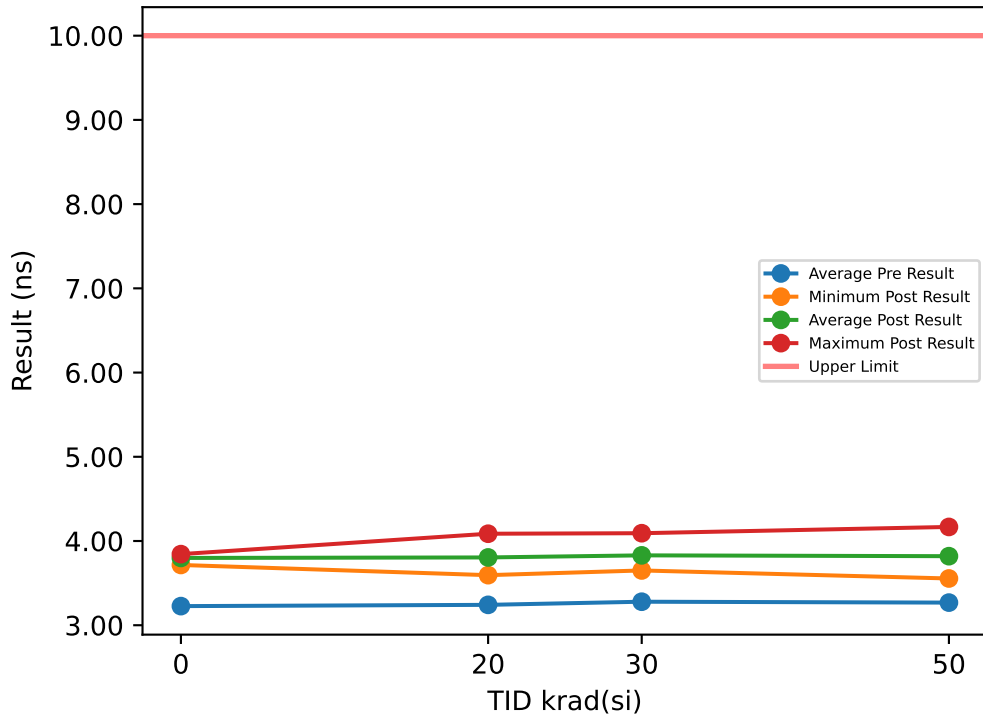
TID vs Post - Pre Exposure Delta



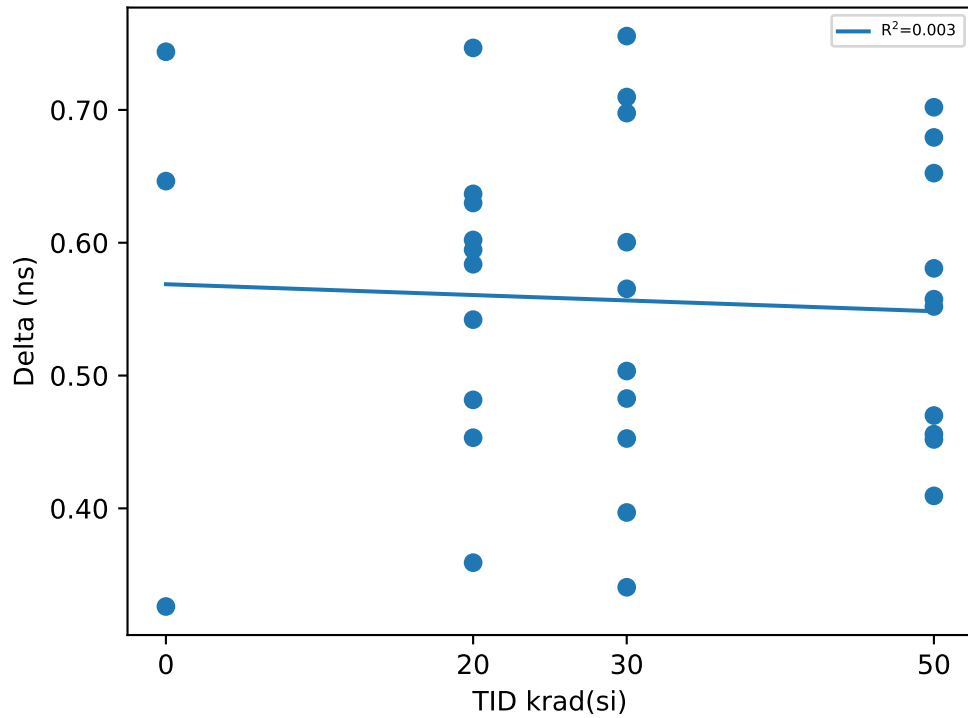
Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.8241	3.9539	4.1523	0.17454	4.8448	4.934	5.0373	0.097021	0.885	0.98013	1.0958	0.10689
20	3.7319	3.9124	4.0294	0.098377	4.837	4.928	5.0323	0.055524	0.8227	1.0157	1.162	0.11589
30	3.8448	3.963	4.1483	0.094542	4.8208	4.9684	5.1063	0.094097	0.7391	1.0055	1.2615	0.17491
50	3.6461	3.9317	4.2019	0.18677	4.7908	4.9431	5.0451	0.079128	0.6858	1.0114	1.3973	0.2463

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 10.0 (ns))

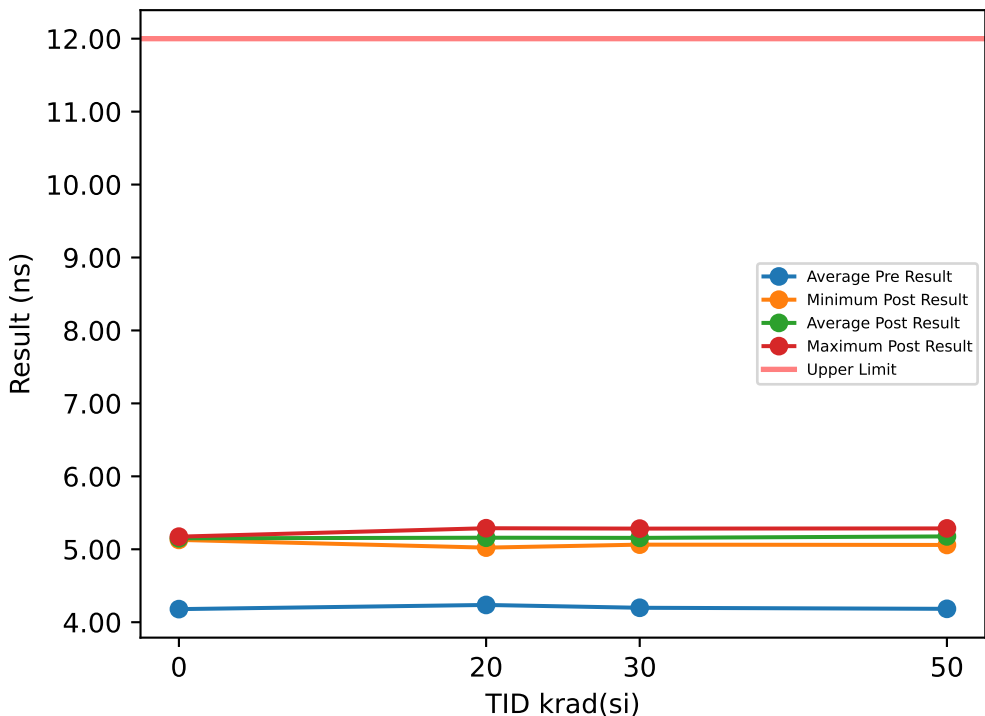
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.0775	3.6722	0.5947
22	20	HDR BIAS	3.2354	3.5945	0.3591
23	20	HDR BIAS	3.1107	3.7128	0.6021
24	20	HDR BIAS	3.1648	3.8016	0.6368
25	20	HDR BIAS	3.6047	4.0864	0.4817
26	20	HDR UNBIAS	3.1313	3.7151	0.5838
27	20	HDR UNBIAS	3.1478	3.7777	0.6299
28	20	HDR UNBIAS	3.5251	3.9783	0.4532
29	20	HDR UNBIAS	3.2142	3.7563	0.5421
30	20	HDR UNBIAS	3.2075	3.9542	0.7467
31	30	HDR BIAS	3.3517	3.7486	0.3969
32	30	HDR BIAS	3.151	3.7514	0.6004
33	30	HDR BIAS	3.395	4.0926	0.6976
34	30	HDR BIAS	3.4264	3.767	0.3406
35	30	HDR BIAS	3.1487	3.714	0.5653
36	30	HDR UNBIAS	3.2336	3.9892	0.7556
37	30	HDR UNBIAS	3.386	3.8386	0.4526
38	30	HDR UNBIAS	3.147	3.6504	0.5034
39	30	HDR UNBIAS	3.0702	3.7799	0.7097
40	30	HDR UNBIAS	3.4819	3.9646	0.4827
41	50	HDR BIAS	3.3615	3.8174	0.4559
42	50	HDR BIAS	3.0647	3.744	0.6793
43	50	HDR BIAS	3.7151	4.167	0.4519
44	50	HDR BIAS	3.2411	3.711	0.4699
45	50	HDR BIAS	2.9027	3.5551	0.6524
46	50	HDR UNBIAS	3.496	3.9054	0.4094
47	50	HDR UNBIAS	3.2795	3.837	0.5575
48	50	HDR UNBIAS	2.9545	3.6565	0.702
49	50	HDR UNBIAS	3.304	3.856	0.552
50	50	HDR UNBIAS	3.3676	3.9483	0.5807
71	0	CORRELATION	3.1909	3.8373	0.6464
72	0	CORRELATION	3.1004	3.8442	0.7438
73	0	CORRELATION	3.3895	3.7156	0.3261

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.1004	3.2269	3.3895	0.14788	3.7156	3.799	3.8442	0.072338	0.3261	0.5721	0.7438	0.21854
20	3.0775	3.2419	3.6047	0.17798	3.5945	3.8049	4.0864	0.15389	0.3591	0.56301	0.7467	0.10919
30	3.0702	3.2792	3.4819	0.14512	3.6504	3.8296	4.0926	0.14043	0.3406	0.55048	0.7556	0.13977
50	2.9027	3.2687	3.7151	0.24625	3.5551	3.8198	4.167	0.17007	0.4094	0.5511	0.702	0.10326



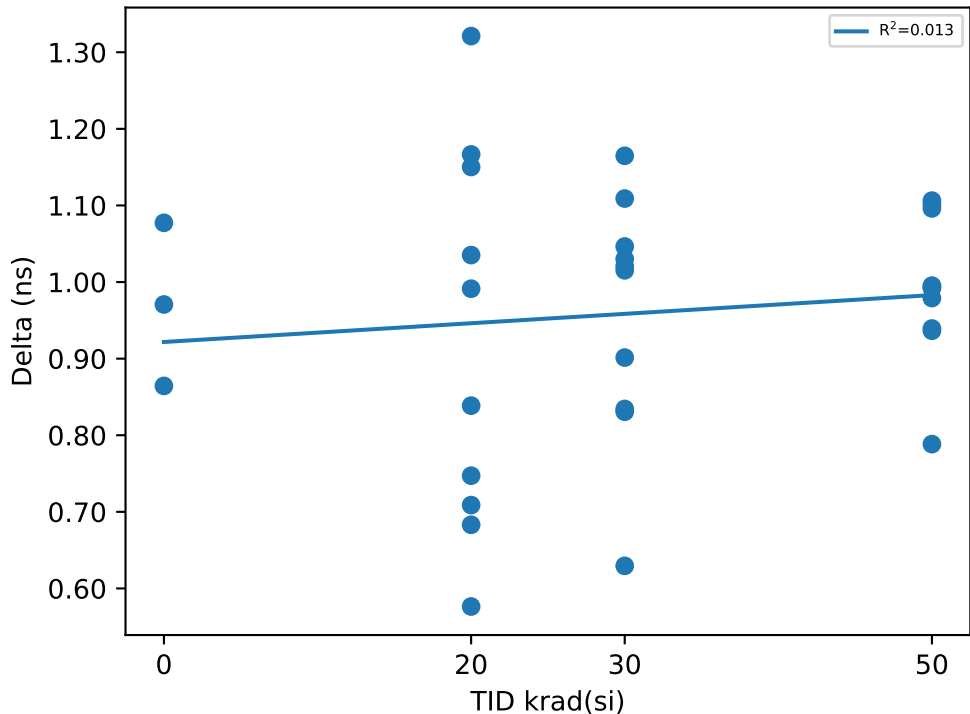
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.3744	5.0832	0.7088
22	20	HDR BIAS	4.0552	5.2054	1.1502
23	20	HDR BIAS	4.1706	5.2058	1.0352
24	20	HDR BIAS	4.4463	5.0227	0.5764
25	20	HDR BIAS	4.2915	5.1301	0.8386
26	20	HDR UNBIAS	4.0449	5.2115	1.1666
27	20	HDR UNBIAS	4.3827	5.0658	0.6831
28	20	HDR UNBIAS	3.9676	5.2887	1.3211
29	20	HDR UNBIAS	4.2721	5.2634	0.9913
30	20	HDR UNBIAS	4.3619	5.1091	0.7472
31	30	HDR BIAS	4.1902	5.2203	1.0301
32	30	HDR BIAS	4.2888	5.1231	0.8343
33	30	HDR BIAS	4.3168	5.1475	0.8307
34	30	HDR BIAS	4.1744	5.2834	1.109
35	30	HDR BIAS	4.1387	5.1851	1.0464
36	30	HDR UNBIAS	4.0503	5.0656	1.0153
37	30	HDR UNBIAS	4.198	5.2186	1.0206
38	30	HDR UNBIAS	3.9927	5.1575	1.1648
39	30	HDR UNBIAS	4.434	5.0635	0.6295
40	30	HDR UNBIAS	4.1963	5.0977	0.9014
41	50	HDR BIAS	4.1049	5.2067	1.1018
42	50	HDR BIAS	4.1175	5.1094	0.9919
43	50	HDR BIAS	4.1919	5.1858	0.9939
44	50	HDR BIAS	4.2886	5.2279	0.9393
45	50	HDR BIAS	4.1744	5.1108	0.9364
46	50	HDR UNBIAS	4.22	5.1991	0.9791
47	50	HDR UNBIAS	4.1483	5.1436	0.9953
48	50	HDR UNBIAS	4.2709	5.0593	0.7884
49	50	HDR UNBIAS	4.1392	5.2353	1.0961
50	50	HDR UNBIAS	4.1797	5.286	1.1063
71	0	CORRELATION	4.0511	5.1284	1.0773
72	0	CORRELATION	4.2854	5.1498	0.8644
73	0	CORRELATION	4.2024	5.1731	0.9707

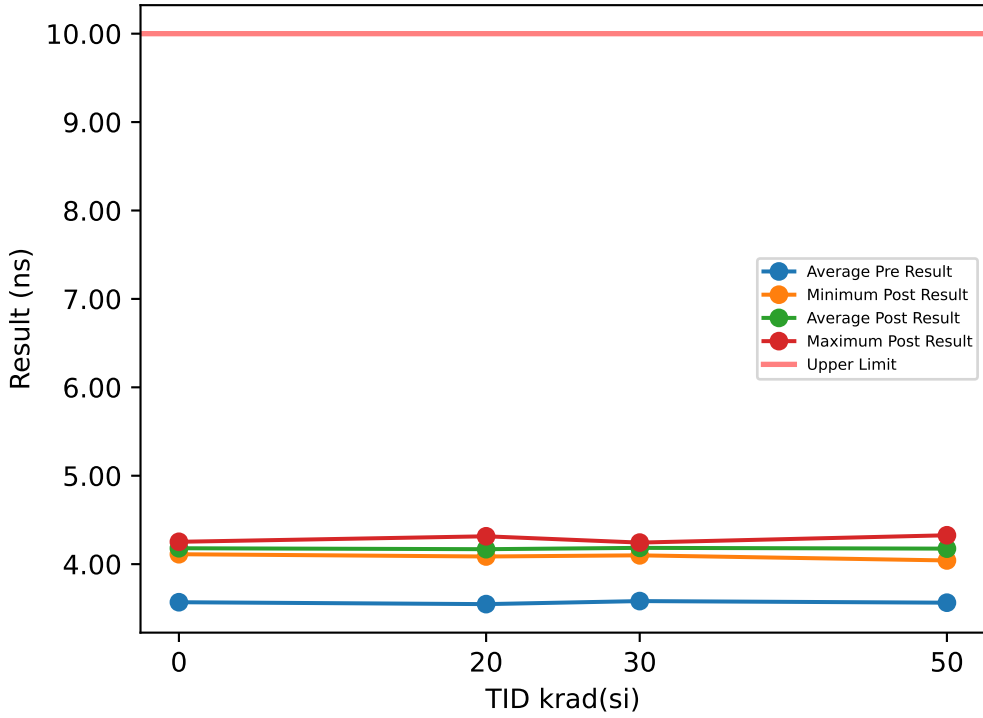
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.0511	4.1796	4.2854	0.1188	5.1284	5.1504	5.1731	0.022357	0.8644	0.9708	1.0773	0.10645
20	3.9676	4.2367	4.4463	0.16688	5.0227	5.1586	5.2887	0.088916	0.5764	0.92185	1.3211	0.24682
30	3.9927	4.198	4.434	0.12743	5.0635	5.1562	5.2834	0.071813	0.6295	0.95821	1.1648	0.15931
50	4.1049	4.1835	4.2886	0.061392	5.0593	5.1764	5.286	0.069311	0.7884	0.99285	1.1063	0.096294

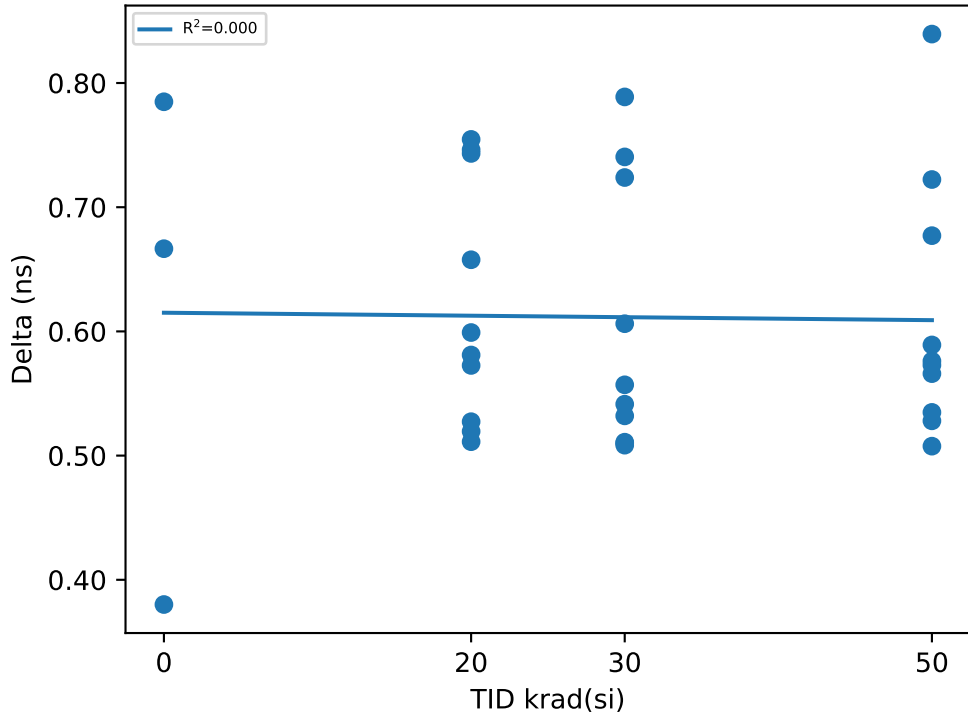
TID vs Result Stats



Test Results (Upper Limit = 10.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.3432	4.0865	0.7433
22	20	HDR BIAS	3.5345	4.1071	0.5726
23	20	HDR BIAS	3.5734	4.1007	0.5273
24	20	HDR BIAS	3.4101	4.1564	0.7463
25	20	HDR BIAS	3.7955	4.315	0.5195
26	20	HDR UNBIAS	3.615	4.1262	0.5112
27	20	HDR UNBIAS	3.3911	4.1457	0.7546
28	20	HDR UNBIAS	3.7152	4.2962	0.581
29	20	HDR UNBIAS	3.5822	4.1813	0.5991
30	20	HDR UNBIAS	3.5186	4.1763	0.6577
31	30	HDR BIAS	3.6933	4.2347	0.5414
32	30	HDR BIAS	3.6258	4.1358	0.51
33	30	HDR BIAS	3.5199	4.2438	0.7239
34	30	HDR BIAS	3.7105	4.2213	0.5108
35	30	HDR BIAS	3.5426	4.0996	0.557
36	30	HDR UNBIAS	3.4636	4.2041	0.7405
37	30	HDR UNBIAS	3.6981	4.2301	0.532
38	30	HDR UNBIAS	3.4965	4.1027	0.6062
39	30	HDR UNBIAS	3.3388	4.1276	0.7888
40	30	HDR UNBIAS	3.7326	4.241	0.5084
41	50	HDR BIAS	3.6076	4.1805	0.5729
42	50	HDR BIAS	3.3428	4.1822	0.8394
43	50	HDR BIAS	3.7375	4.3266	0.5891
44	50	HDR BIAS	3.6072	4.1352	0.528
45	50	HDR BIAS	3.3647	4.0418	0.6771
46	50	HDR UNBIAS	3.6955	4.2303	0.5348
47	50	HDR UNBIAS	3.6344	4.2004	0.566
48	50	HDR UNBIAS	3.3489	4.0712	0.7223
49	50	HDR UNBIAS	3.6671	4.1747	0.5076
50	50	HDR UNBIAS	3.6351	4.2112	0.5761
71	0	CORRELATION	3.5861	4.2527	0.6666
72	0	CORRELATION	3.3895	4.1744	0.7849
73	0	CORRELATION	3.7321	4.1122	0.3801

TID vs Post - Pre Exposure Delta

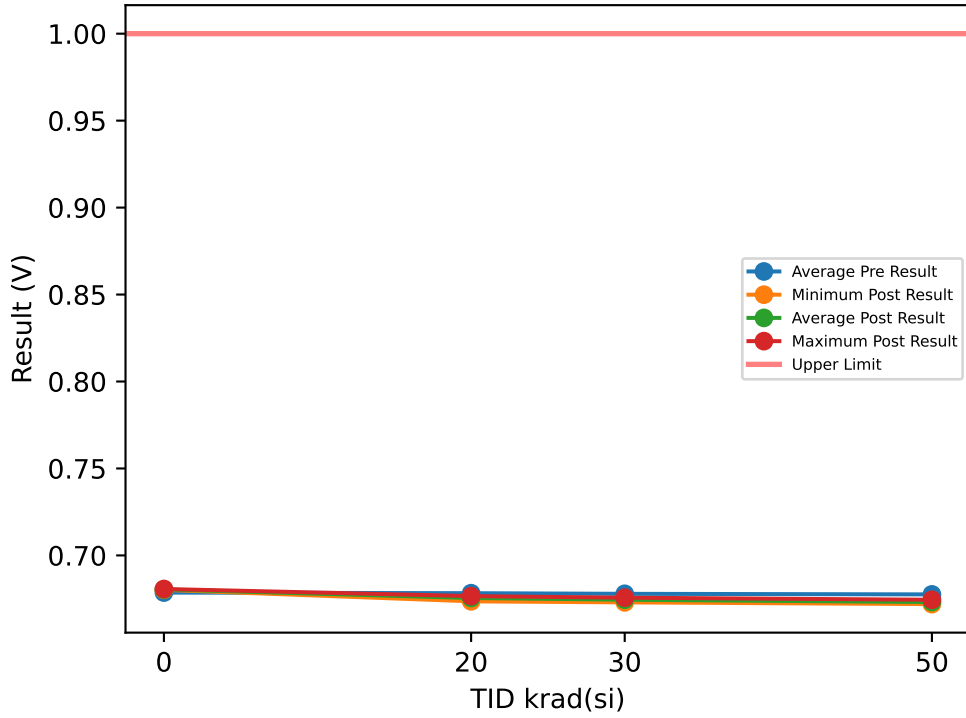


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.3895	3.5692	3.7321	0.17192	4.1122	4.1798	4.2527	0.070404	0.3801	0.61053	0.7849	0.20814
20	3.3432	3.5479	3.7955	0.14226	4.0865	4.1691	4.315	0.078554	0.5112	0.62126	0.7546	0.097418
30	3.3388	3.5822	3.7326	0.13033	4.0996	4.1841	4.2438	0.060142	0.5084	0.6019	0.7888	0.10806
50	3.3428	3.5641	3.7375	0.15156	4.0418	4.1754	4.3266	0.0804	0.5076	0.61133	0.8394	0.10407

# Device Test: 24.29 VOLTAGE|OUT\_CLAMP/OUTL/0/0/0/0/0/0//@OUT\_CLAMP\_0V

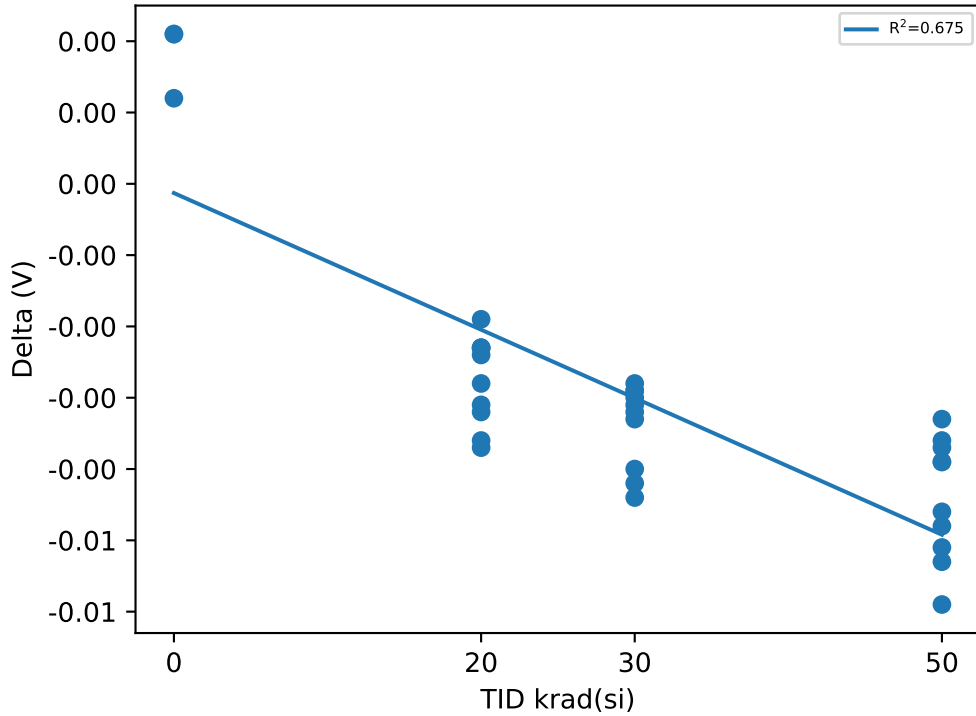
### TID vs Result Stats



### Test Results (Upper Limit = 1.0 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6789	0.6758	-0.0031
22	20	HDR BIAS	0.6785	0.6766	-0.0019
23	20	HDR BIAS	0.6782	0.6759	-0.0023
24	20	HDR BIAS	0.6785	0.6753	-0.0032
25	20	HDR BIAS	0.6764	0.6736	-0.0028
26	20	HDR UNBIAS	0.6785	0.6762	-0.0023
27	20	HDR UNBIAS	0.6785	0.6749	-0.0036
28	20	HDR UNBIAS	0.678	0.6757	-0.0023
29	20	HDR UNBIAS	0.6783	0.6759	-0.0024
30	20	HDR UNBIAS	0.679	0.6753	-0.0037
31	30	HDR BIAS	0.6777	0.6748	-0.0029
32	30	HDR BIAS	0.6773	0.6743	-0.003
33	30	HDR BIAS	0.6785	0.6741	-0.0044
34	30	HDR BIAS	0.6778	0.675	-0.0028
35	30	HDR BIAS	0.6775	0.6743	-0.0032
36	30	HDR UNBIAS	0.6787	0.6745	-0.0042
37	30	HDR UNBIAS	0.6763	0.673	-0.0033
38	30	HDR UNBIAS	0.6788	0.6757	-0.0031
39	30	HDR UNBIAS	0.6786	0.6746	-0.004
40	30	HDR UNBIAS	0.678	0.6751	-0.0029
41	50	HDR BIAS	0.6781	0.6744	-0.0037
42	50	HDR BIAS	0.6771	0.672	-0.0051
43	50	HDR BIAS	0.6764	0.6725	-0.0039
44	50	HDR BIAS	0.6781	0.6745	-0.0036
45	50	HDR BIAS	0.6787	0.6739	-0.0048
46	50	HDR UNBIAS	0.6765	0.6726	-0.0039
47	50	HDR UNBIAS	0.6772	0.6739	-0.0033
48	50	HDR UNBIAS	0.6779	0.6733	-0.0046
49	50	HDR UNBIAS	0.6779	0.6726	-0.0053
50	50	HDR UNBIAS	0.678	0.6721	-0.0059
71	0	CORRELATION	0.6783	0.6804	0.0021
72	0	CORRELATION	0.6795	0.6807	0.0012
73	0	CORRELATION	0.6781	0.6802	0.0021

### TID vs Post - Pre Exposure Delta

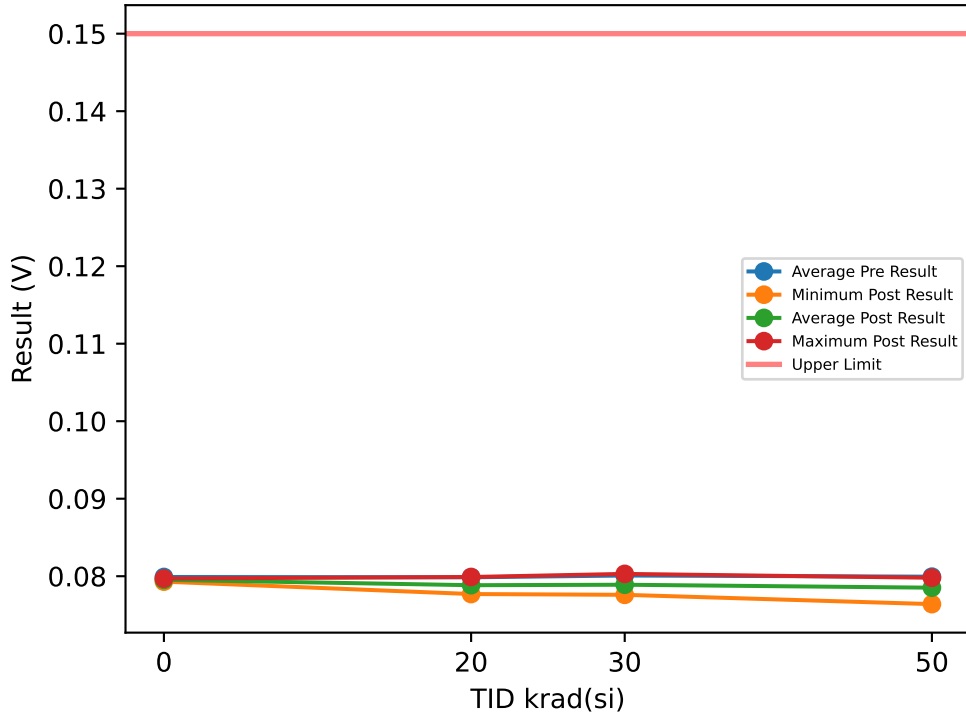


### Test Statistics (V)

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	0.6781	0.67863	0.6795	0.00075719	0.6802	0.68043	0.6807	0.00025166	0.0012	0.0018	0.0021	0.00051962
20	0.6764	0.67828	0.679	0.00072388	0.6736	0.67552	0.6766	0.00082973	-0.0037	-0.00276	-0.0019	0.000615
30	0.6763	0.67792	0.6788	0.00077717	0.673	0.67454	0.6757	0.00071678	-0.0044	-0.00338	-0.0028	0.00059217
50	0.6764	0.67759	0.6787	0.00075344	0.672	0.67318	0.6745	0.00094139	-0.0059	-0.00441	-0.0033	0.00085563

# Device Test: 24.3 LEVEL|LOW\_LEVEL/OUTL/5/5/0/0/5/500kHz//@OUT\_VOL

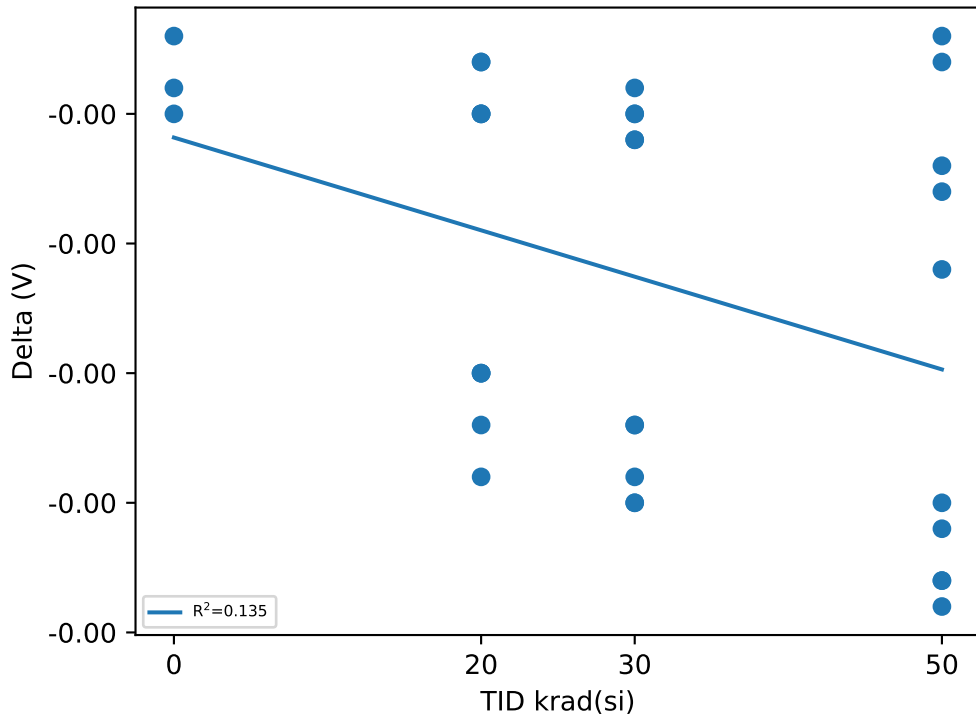
## TID vs Result Stats



## Test Results (Upper Limit = 0.15 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.0803	0.0788	-0.0015
22	20	HDR BIAS	0.0805	0.0788	-0.0017
23	20	HDR BIAS	0.0802	0.0787	-0.0015
24	20	HDR BIAS	0.0796	0.0777	-0.0019
25	20	HDR BIAS	0.0792	0.0777	-0.0015
26	20	HDR UNBIAS	0.0801	0.0798	-0.0003
27	20	HDR UNBIAS	0.0795	0.079	-0.0005
28	20	HDR UNBIAS	0.0793	0.0788	-0.0005
29	20	HDR UNBIAS	0.0802	0.0799	-0.0003
30	20	HDR UNBIAS	0.0797	0.0792	-0.0005
31	30	HDR BIAS	0.0803	0.0784	-0.0019
32	30	HDR BIAS	0.0801	0.0784	-0.0017
33	30	HDR BIAS	0.0796	0.0776	-0.002
34	30	HDR BIAS	0.0803	0.0783	-0.002
35	30	HDR BIAS	0.0798	0.0781	-0.0017
36	30	HDR UNBIAS	0.0797	0.0792	-0.0005
37	30	HDR UNBIAS	0.0807	0.0801	-0.0006
38	30	HDR UNBIAS	0.0807	0.0803	-0.0004
39	30	HDR UNBIAS	0.0799	0.0793	-0.0006
40	30	HDR UNBIAS	0.0798	0.0793	-0.0005
41	50	HDR BIAS	0.08	0.0776	-0.0024
42	50	HDR BIAS	0.0809	0.0786	-0.0023
43	50	HDR BIAS	0.0784	0.0764	-0.002
44	50	HDR BIAS	0.08	0.0779	-0.0021
45	50	HDR BIAS	0.0798	0.0775	-0.0023
46	50	HDR UNBIAS	0.08	0.0792	-0.0008
47	50	HDR UNBIAS	0.0795	0.0788	-0.0007
48	50	HDR UNBIAS	0.0809	0.0798	-0.0011
49	50	HDR UNBIAS	0.08	0.0797	-0.0003
50	50	HDR UNBIAS	0.0799	0.0797	-0.0002
71	0	CORRELATION	0.0801	0.0796	-0.0005
72	0	CORRELATION	0.0799	0.0797	-0.0002
73	0	CORRELATION	0.0797	0.0793	-0.0004

## TID vs Post - Pre Exposure Delta

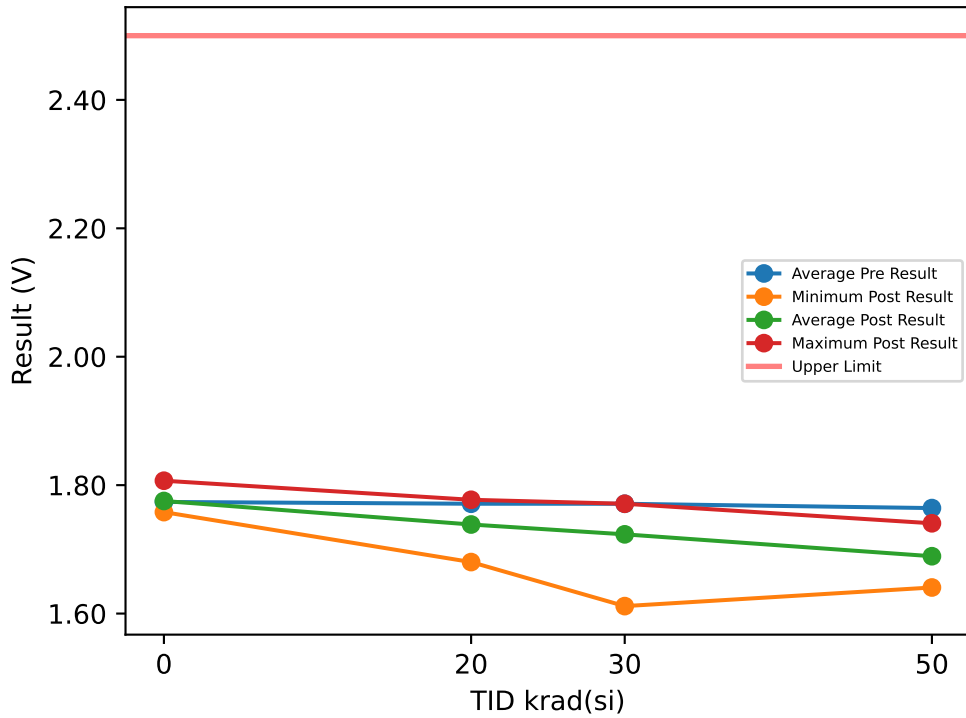


## Test Statistics (V)

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	0.0797	0.0799	0.0801	0.0002	0.0793	0.079533	0.0797	0.00020817	-0.0005	-0.00036667	-0.0002	0.00015275
20	0.0792	0.07986	0.0805	0.00045509	0.0777	0.07884	0.0799	0.00073212	-0.0019	-0.00102	-0.0003	0.00064773
30	0.0796	0.08009	0.0807	0.00039847	0.0776	0.0789	0.0803	0.00088192	-0.002	-0.00119	-0.0004	0.00071562
50	0.0784	0.07994	0.0809	0.00070269	0.0764	0.07852	0.0798	0.0011419	-0.0024	-0.00142	-0.0002	0.00088544

# Device Test: 24.30 VOLTAGE|OUT\_CLAMP/OUTL/5/0/0/0/0/0//@OUT\_CLAMP\_FULL

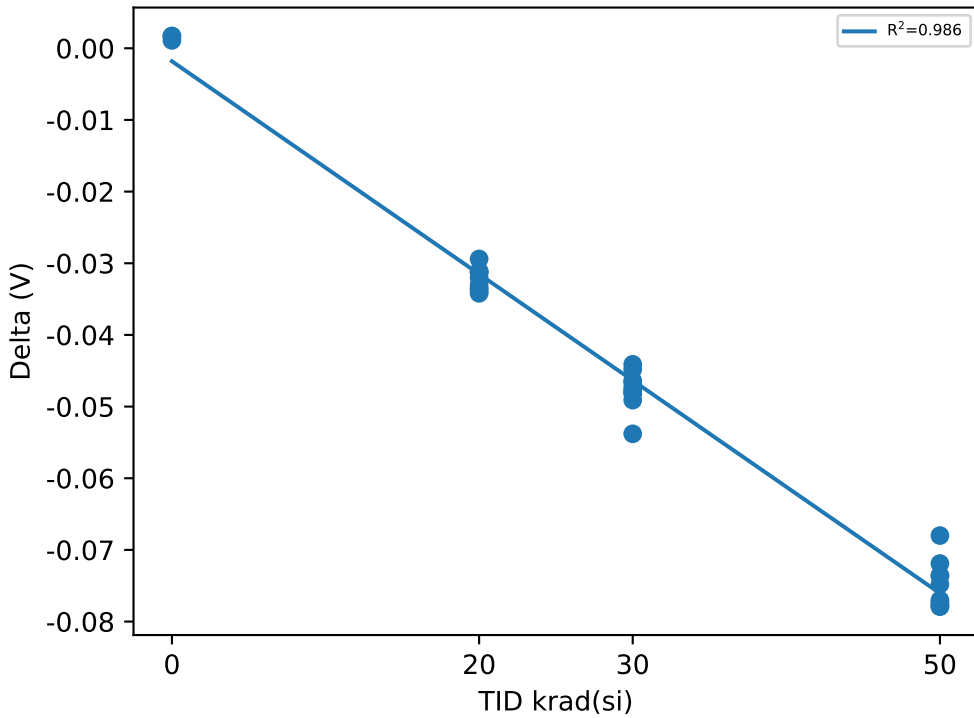
## TID vs Result Stats



## Test Results (Upper Limit = 2.5 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.8102	1.7772	-0.033
22	20	HDR BIAS	1.8038	1.7726	-0.0312
23	20	HDR BIAS	1.8062	1.7749	-0.0313
24	20	HDR BIAS	1.7403	1.7063	-0.034
25	20	HDR BIAS	1.7122	1.6802	-0.032
26	20	HDR UNBIAS	1.7943	1.7632	-0.0311
27	20	HDR UNBIAS	1.7708	1.7373	-0.0335
28	20	HDR UNBIAS	1.7181	1.6887	-0.0294
29	20	HDR UNBIAS	1.8033	1.7691	-0.0342
30	20	HDR UNBIAS	1.7511	1.7175	-0.0336
31	30	HDR BIAS	1.8028	1.749	-0.0538
32	30	HDR BIAS	1.8158	1.771	-0.0448
33	30	HDR BIAS	1.6557	1.6116	-0.0441
34	30	HDR BIAS	1.7745	1.7279	-0.0466
35	30	HDR BIAS	1.7731	1.7252	-0.0479
36	30	HDR UNBIAS	1.753	1.7066	-0.0464
37	30	HDR UNBIAS	1.779	1.7317	-0.0473
38	30	HDR UNBIAS	1.7975	1.7493	-0.0482
39	30	HDR UNBIAS	1.7895	1.7404	-0.0491
40	30	HDR UNBIAS	1.769	1.7211	-0.0479
41	50	HDR BIAS	1.7442	1.6694	-0.0748
42	50	HDR BIAS	1.7605	1.6869	-0.0736
43	50	HDR BIAS	1.7086	1.6406	-0.068
44	50	HDR BIAS	1.8179	1.7406	-0.0773
45	50	HDR BIAS	1.7622	1.6852	-0.077
46	50	HDR UNBIAS	1.737	1.6634	-0.0736
47	50	HDR UNBIAS	1.8092	1.7373	-0.0719
48	50	HDR UNBIAS	1.7747	1.6968	-0.0779
49	50	HDR UNBIAS	1.779	1.7013	-0.0777
50	50	HDR UNBIAS	1.7495	1.6716	-0.0779
71	0	CORRELATION	1.8052	1.8069	0.0017
72	0	CORRELATION	1.7569	1.758	0.0011
73	0	CORRELATION	1.7594	1.7611	0.0017

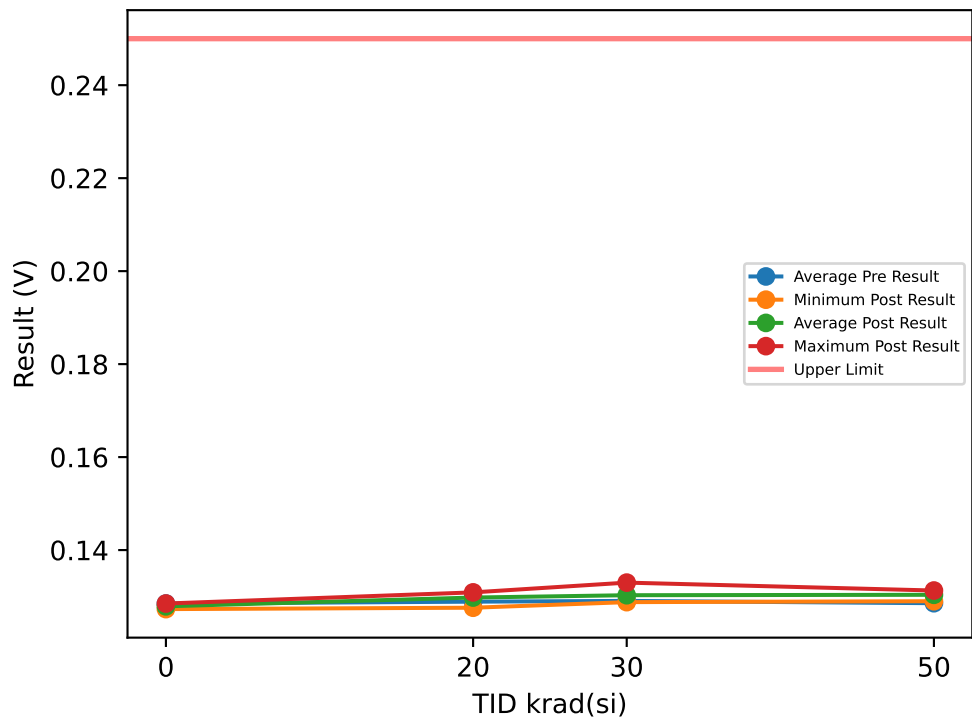
## TID vs Post - Pre Exposure Delta



## 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	1.7569	1.7738	1.8052	0.027193	1.758	1.7753	1.8069	0.027381	0.0011	0.0015	0.0017	0.00034641
20	1.7122	1.771	1.8102	0.038053	1.6802	1.7387	1.7772	0.037844	-0.0342	-0.03233	-0.0294	0.0015727
30	1.6557	1.771	1.8158	0.044429	1.6116	1.7234	1.771	0.043154	-0.0538	-0.04761	-0.0441	0.0026635
50	1.7086	1.7643	1.8179	0.032834	1.6406	1.6893	1.7406	0.031465	-0.0779	-0.07497	-0.068	0.0032653

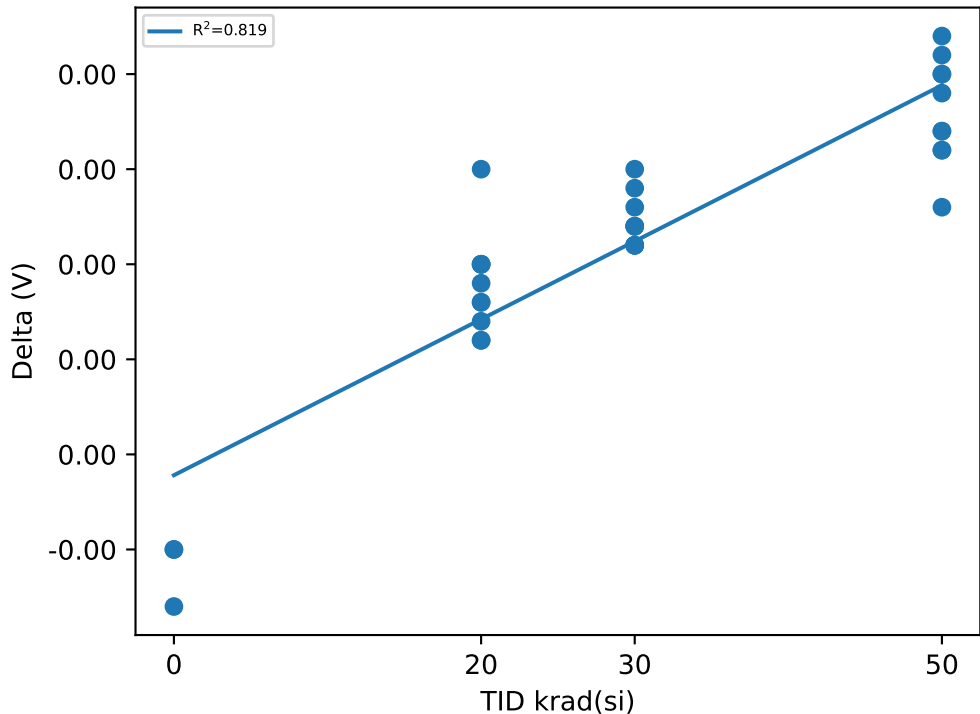
TID vs Result Stats



Test Results (Upper Limit = 0.25 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1293	0.1303	0.001
22	20	HDR BIAS	0.1283	0.1291	0.0008
23	20	HDR BIAS	0.1294	0.1301	0.0007
24	20	HDR BIAS	0.1294	0.1309	0.0015
25	20	HDR BIAS	0.1278	0.1288	0.001
26	20	HDR UNBIAS	0.1298	0.1304	0.0006
27	20	HDR UNBIAS	0.1295	0.1305	0.001
28	20	HDR UNBIAS	0.127	0.1276	0.0006
29	20	HDR UNBIAS	0.13	0.1309	0.0009
30	20	HDR UNBIAS	0.1285	0.1293	0.0008
31	30	HDR BIAS	0.1317	0.133	0.0013
32	30	HDR BIAS	0.1297	0.1309	0.0012
33	30	HDR BIAS	0.1274	0.1288	0.0014
34	30	HDR BIAS	0.1277	0.1289	0.0012
35	30	HDR BIAS	0.1284	0.1295	0.0011
36	30	HDR UNBIAS	0.1285	0.1296	0.0011
37	30	HDR UNBIAS	0.1289	0.13	0.0011
38	30	HDR UNBIAS	0.1295	0.1306	0.0011
39	30	HDR UNBIAS	0.1292	0.1307	0.0015
40	30	HDR UNBIAS	0.1297	0.1309	0.0012
41	50	HDR BIAS	0.1283	0.13	0.0017
42	50	HDR BIAS	0.1292	0.1313	0.0021
43	50	HDR BIAS	0.1274	0.129	0.0016
44	50	HDR BIAS	0.1293	0.1312	0.0019
45	50	HDR BIAS	0.1289	0.1311	0.0022
46	50	HDR UNBIAS	0.1295	0.1312	0.0017
47	50	HDR UNBIAS	0.1284	0.1297	0.0013
48	50	HDR UNBIAS	0.1283	0.1299	0.0016
49	50	HDR UNBIAS	0.1284	0.1304	0.002
50	50	HDR UNBIAS	0.128	0.13	0.002
71	0	CORRELATION	0.1281	0.1273	-0.0008
72	0	CORRELATION	0.1284	0.1279	-0.0005
73	0	CORRELATION	0.129	0.1285	-0.0005

TID vs Post - Pre Exposure Delta



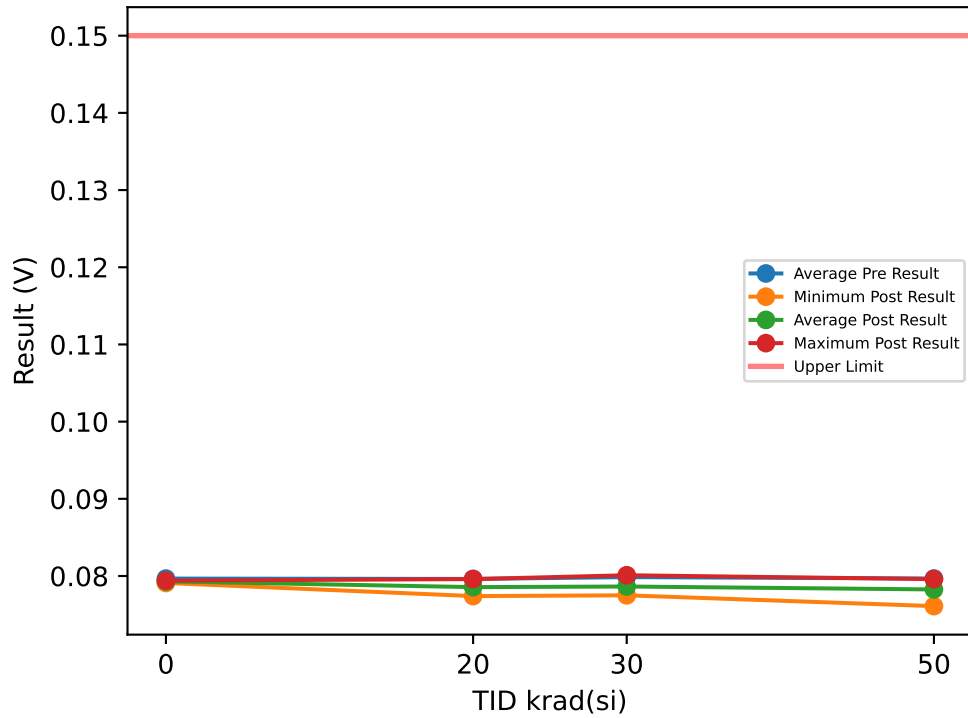
Test Statistics (V)

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	0.1281	0.1285	0.129	0.00045826	0.1273	0.1279	0.1285	0.0006	-0.0008	-0.0006	-0.0005	0.00017321
20	0.127	0.1289	0.13	0.00096494	0.1276	0.12979	0.1309	0.001064	0.0006	0.00089	0.0015	0.00026437
30	0.1274	0.12907	0.1317	0.0012193	0.1288	0.13029	0.133	0.0012333	0.0011	0.00122	0.0015	0.00013984
50	0.1274	0.12857	0.1295	0.00064987	0.129	0.13038	0.1313	0.00078853	0.0013	0.00181	0.0022	0.00027669



# Device Test: 24.5 LEVEL|LOW\_LEVEL/OUTL/12/12/0/0/5/500kHz//@OUT\_VOL

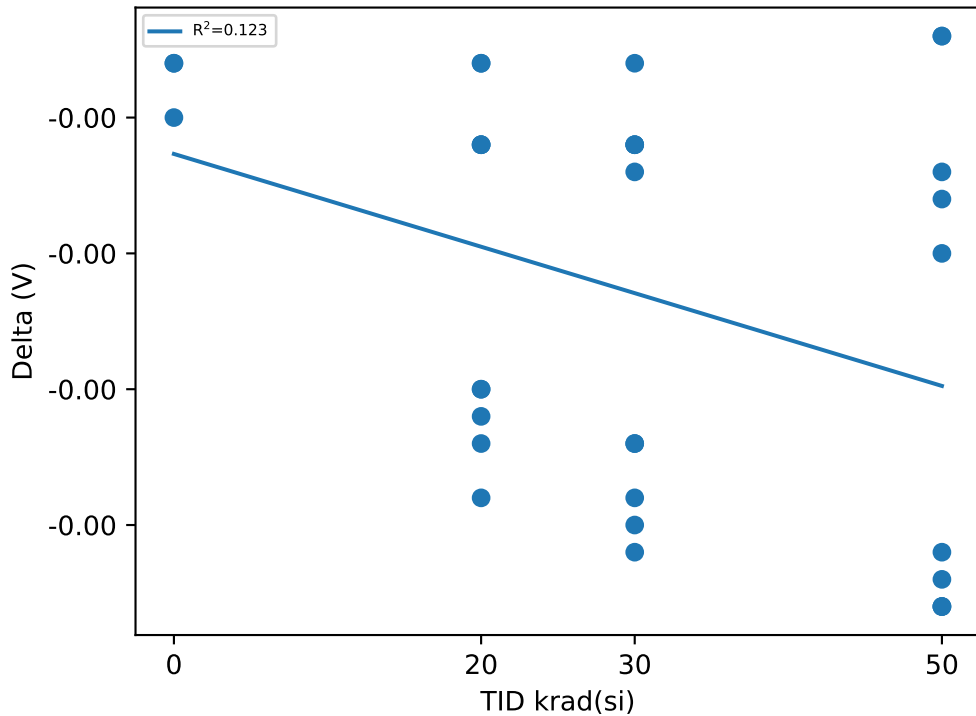
## TID vs Result Stats



## Test Results (Upper Limit = 0.15 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.08	0.0785	-0.0015
22	20	HDR BIAS	0.0802	0.0785	-0.0017
23	20	HDR BIAS	0.0799	0.0783	-0.0016
24	20	HDR BIAS	0.0794	0.0775	-0.0019
25	20	HDR BIAS	0.0789	0.0774	-0.0015
26	20	HDR UNBIAS	0.0798	0.0795	-0.0003
27	20	HDR UNBIAS	0.0793	0.0787	-0.0006
28	20	HDR UNBIAS	0.0792	0.0786	-0.0006
29	20	HDR UNBIAS	0.0799	0.0796	-0.0003
30	20	HDR UNBIAS	0.0796	0.079	-0.0006
31	30	HDR BIAS	0.08	0.0781	-0.0019
32	30	HDR BIAS	0.0798	0.0781	-0.0017
33	30	HDR BIAS	0.0795	0.0775	-0.002
34	30	HDR BIAS	0.0801	0.078	-0.0021
35	30	HDR BIAS	0.0796	0.0779	-0.0017
36	30	HDR UNBIAS	0.0796	0.0789	-0.0007
37	30	HDR UNBIAS	0.0803	0.0797	-0.0006
38	30	HDR UNBIAS	0.0804	0.0801	-0.0003
39	30	HDR UNBIAS	0.0797	0.0791	-0.0006
40	30	HDR UNBIAS	0.0796	0.079	-0.0006
41	50	HDR BIAS	0.0797	0.0774	-0.0023
42	50	HDR BIAS	0.0807	0.0784	-0.0023
43	50	HDR BIAS	0.0782	0.0761	-0.0021
44	50	HDR BIAS	0.0798	0.0776	-0.0022
45	50	HDR BIAS	0.0796	0.0773	-0.0023
46	50	HDR UNBIAS	0.0797	0.0789	-0.0008
47	50	HDR UNBIAS	0.0792	0.0785	-0.0007
48	50	HDR UNBIAS	0.0806	0.0796	-0.001
49	50	HDR UNBIAS	0.0796	0.0794	-0.0002
50	50	HDR UNBIAS	0.0796	0.0794	-0.0002
71	0	CORRELATION	0.0799	0.0794	-0.0005
72	0	CORRELATION	0.0797	0.0794	-0.0003
73	0	CORRELATION	0.0794	0.0791	-0.0003

## TID vs Post - Pre Exposure Delta



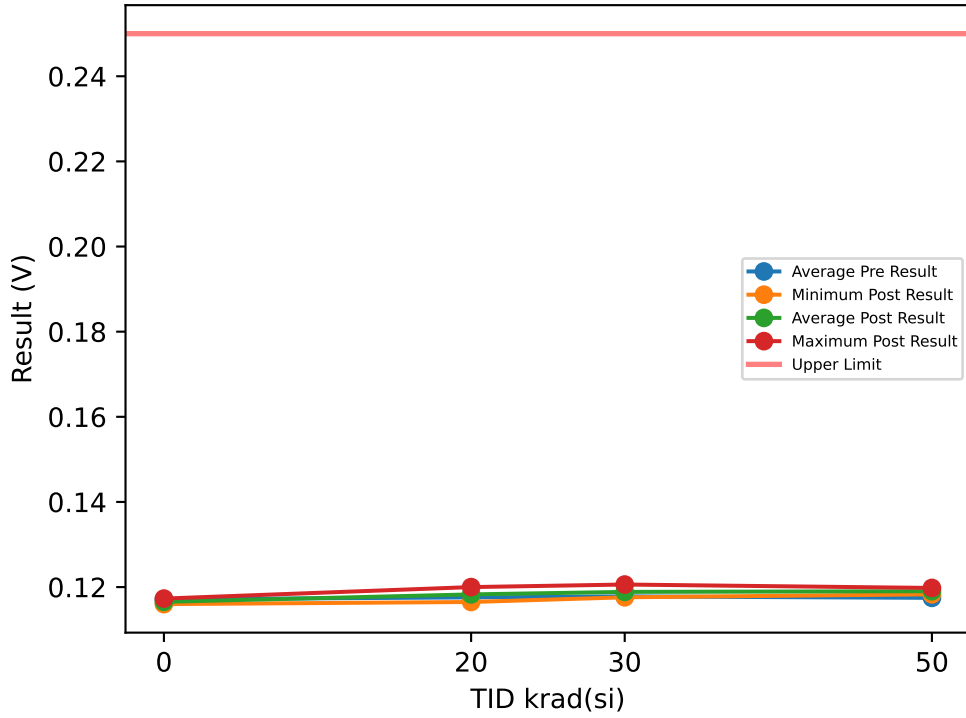
## Test Statistics (V)

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	0.0794	0.079667	0.0799	0.00025166	0.0791	0.0793	0.0794	0.00017321	-0.0005	-0.00036667	-0.0003	0.00011547
20	0.0789	0.07962	0.0802	0.00041042	0.0774	0.07856	0.0796	0.00072449	-0.0019	-0.00106	-0.0003	0.00063105
30	0.0795	0.07986	0.0804	0.00032042	0.0775	0.07864	0.0801	0.0008501	-0.0021	-0.00122	-0.0003	0.00071305
50	0.0782	0.07967	0.0807	0.0006945	0.0761	0.07826	0.0796	0.0011374	-0.0023	-0.00141	-0.0002	0.00090976

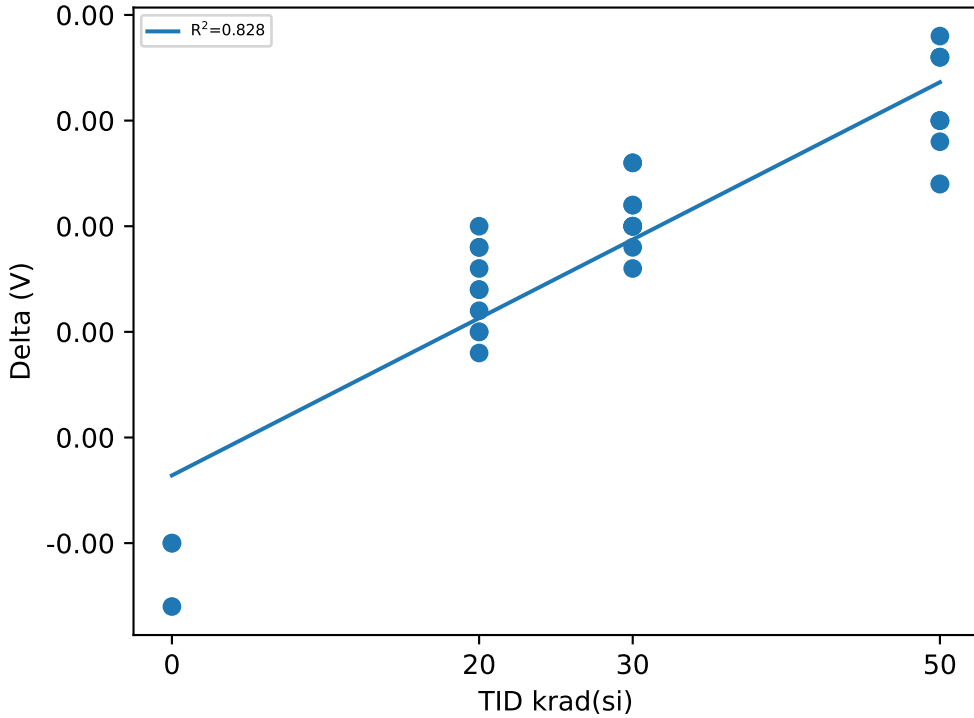


# Device Test: 24.6 LEVEL|HIGH\_LEVEL/OUTH/12/12/0/0/5/500kHz//@OUT\_VOH

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 0.25 (V))

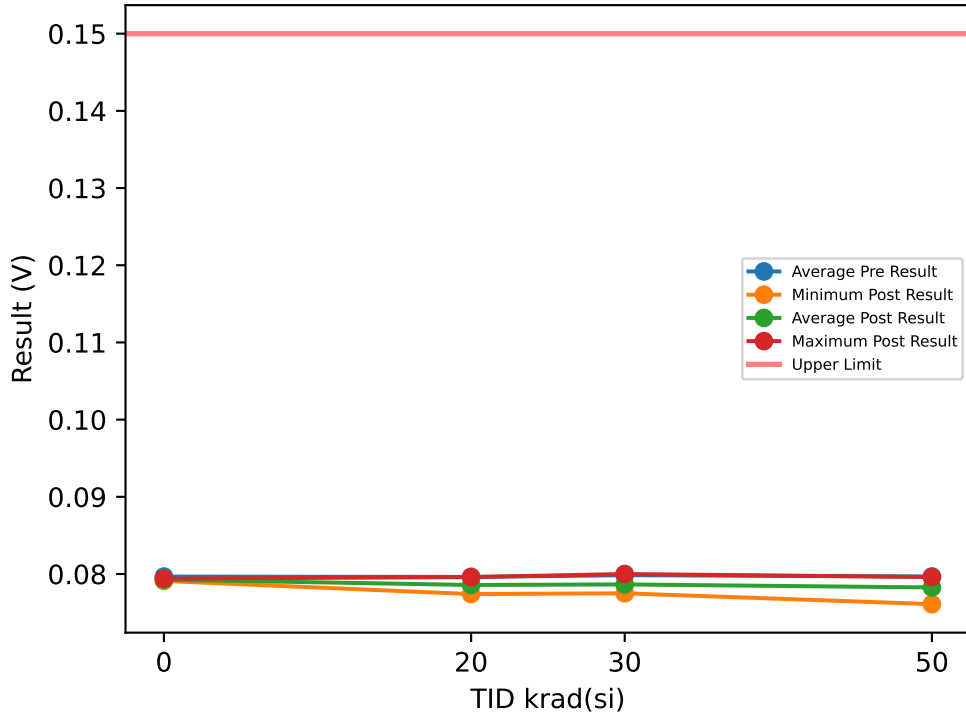
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1176	0.1185	0.0009
22	20	HDR BIAS	0.1175	0.1181	0.0006
23	20	HDR BIAS	0.1175	0.118	0.0005
24	20	HDR BIAS	0.1183	0.1193	0.001
25	20	HDR BIAS	0.1166	0.1174	0.0008
26	20	HDR UNBIAS	0.1178	0.1183	0.0005
27	20	HDR UNBIAS	0.1184	0.1191	0.0007
28	20	HDR UNBIAS	0.1161	0.1165	0.0004
29	20	HDR UNBIAS	0.1191	0.12	0.0009
30	20	HDR UNBIAS	0.1169	0.1176	0.0007
31	30	HDR BIAS	0.1196	0.1206	0.001
32	30	HDR BIAS	0.1184	0.1195	0.0011
33	30	HDR BIAS	0.1163	0.1176	0.0013
34	30	HDR BIAS	0.1166	0.1179	0.0013
35	30	HDR BIAS	0.1175	0.1186	0.0011
36	30	HDR UNBIAS	0.1175	0.1185	0.001
37	30	HDR UNBIAS	0.1174	0.1184	0.001
38	30	HDR UNBIAS	0.1184	0.1192	0.0008
39	30	HDR UNBIAS	0.118	0.119	0.001
40	30	HDR UNBIAS	0.1185	0.1194	0.0009
41	50	HDR BIAS	0.1179	0.1194	0.0015
42	50	HDR BIAS	0.118	0.1198	0.0018
43	50	HDR BIAS	0.1168	0.1183	0.0015
44	50	HDR BIAS	0.1179	0.1197	0.0018
45	50	HDR BIAS	0.1176	0.1191	0.0015
46	50	HDR UNBIAS	0.1186	0.1198	0.0012
47	50	HDR UNBIAS	0.1172	0.1184	0.0012
48	50	HDR UNBIAS	0.1171	0.1185	0.0014
49	50	HDR UNBIAS	0.1167	0.1186	0.0019
50	50	HDR UNBIAS	0.1169	0.1187	0.0018
71	0	CORRELATION	0.1171	0.1163	-0.0008
72	0	CORRELATION	0.1165	0.116	-0.0005
73	0	CORRELATION	0.1178	0.1173	-0.0005

## 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	0.1165	0.11713	0.1178	0.00065064	0.116	0.11653	0.1173	0.00068069	-0.0008	-0.0006	-0.0005	0.00017321
20	0.1161	0.11758	0.1191	0.00089294	0.1165	0.11828	0.12	0.001013	0.0004	0.0007	0.001	0.0002
30	0.1163	0.11782	0.1196	0.00097274	0.1176	0.11887	0.1206	0.00086801	0.0008	0.00105	0.0013	0.00015811
50	0.1167	0.11747	0.1186	0.00062548	0.1183	0.11903	0.1198	0.00060378	0.0012	0.00156	0.0019	0.00025473

# Device Test: 24.7 LEVEL|LOW\_LEVEL/OUTL/14/14/0/0/5/500kHz//@OUT\_VOL

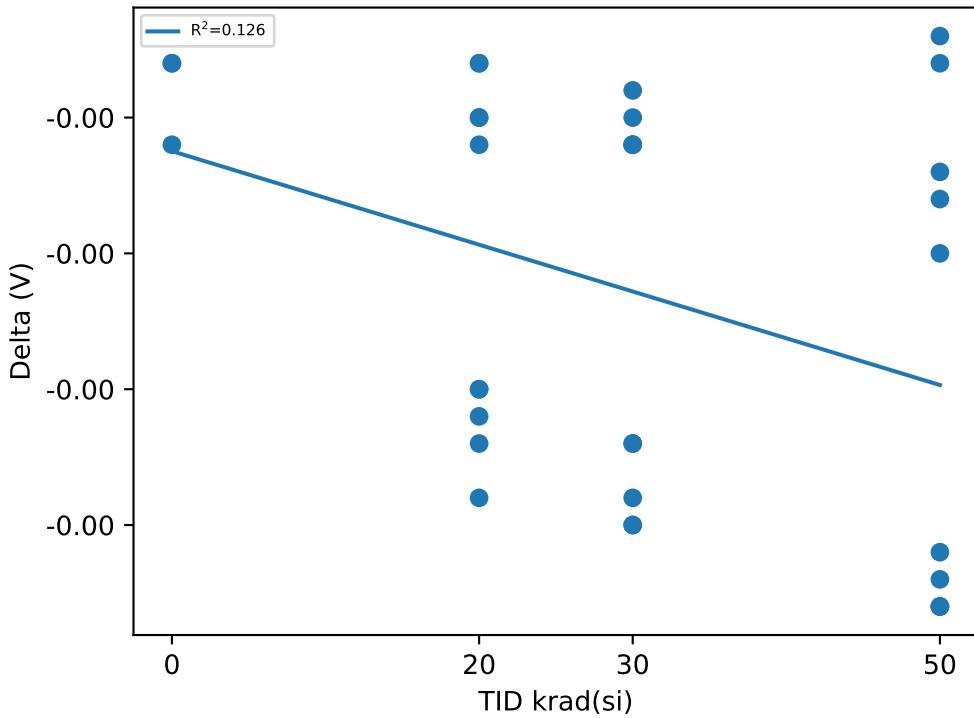
## TID vs Result Stats



## Test Results (Upper Limit = 0.15 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.08	0.0785	-0.0015
22	20	HDR BIAS	0.0802	0.0785	-0.0017
23	20	HDR BIAS	0.0799	0.0783	-0.0016
24	20	HDR BIAS	0.0794	0.0775	-0.0019
25	20	HDR BIAS	0.0789	0.0774	-0.0015
26	20	HDR UNBIAS	0.0798	0.0795	-0.0003
27	20	HDR UNBIAS	0.0793	0.0788	-0.0005
28	20	HDR UNBIAS	0.0792	0.0786	-0.0006
29	20	HDR UNBIAS	0.0799	0.0796	-0.0003
30	20	HDR UNBIAS	0.0796	0.0791	-0.0005
31	30	HDR BIAS	0.08	0.0781	-0.0019
32	30	HDR BIAS	0.0798	0.0781	-0.0017
33	30	HDR BIAS	0.0795	0.0775	-0.002
34	30	HDR BIAS	0.0801	0.0781	-0.002
35	30	HDR BIAS	0.0796	0.0779	-0.0017
36	30	HDR UNBIAS	0.0795	0.0789	-0.0006
37	30	HDR UNBIAS	0.0803	0.0798	-0.0005
38	30	HDR UNBIAS	0.0804	0.08	-0.0004
39	30	HDR UNBIAS	0.0797	0.0791	-0.0006
40	30	HDR UNBIAS	0.0796	0.079	-0.0006
41	50	HDR BIAS	0.0797	0.0774	-0.0023
42	50	HDR BIAS	0.0807	0.0784	-0.0023
43	50	HDR BIAS	0.0782	0.0761	-0.0021
44	50	HDR BIAS	0.0798	0.0776	-0.0022
45	50	HDR BIAS	0.0796	0.0773	-0.0023
46	50	HDR UNBIAS	0.0797	0.0789	-0.0008
47	50	HDR UNBIAS	0.0792	0.0785	-0.0007
48	50	HDR UNBIAS	0.0806	0.0796	-0.001
49	50	HDR UNBIAS	0.0797	0.0794	-0.0003
50	50	HDR UNBIAS	0.0796	0.0794	-0.0002
71	0	CORRELATION	0.0799	0.0793	-0.0006
72	0	CORRELATION	0.0797	0.0794	-0.0003
73	0	CORRELATION	0.0794	0.0791	-0.0003

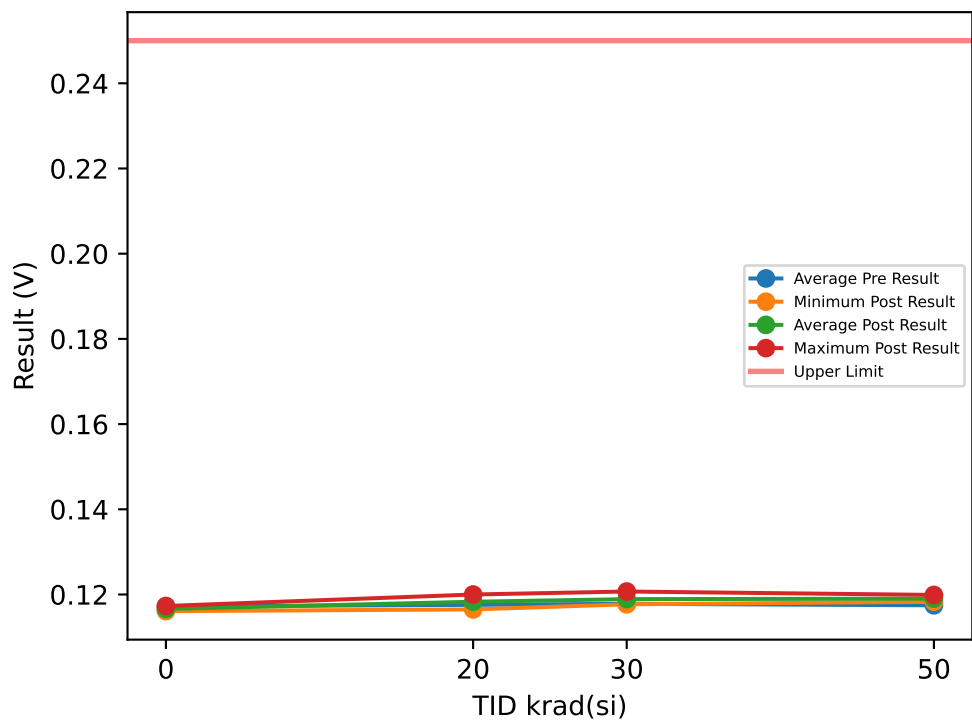
## TID vs Post - Pre Exposure Delta



## 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	0.0794	0.079667	0.0799	0.00025166	0.0791	0.079267	0.0794	0.00015275	-0.0006	-0.0004	-0.0003	0.00017321
20	0.0789	0.07962	0.0802	0.00041042	0.0774	0.07858	0.0796	0.00073454	-0.0019	-0.00104	-0.0003	0.00064842
30	0.0795	0.07985	0.0804	0.00033082	0.0775	0.07865	0.08	0.00083832	-0.002	-0.0012	-0.0004	0.00070553
50	0.0782	0.07968	0.0807	0.0006941	0.0761	0.07826	0.0796	0.0011374	-0.0023	-0.00142	-0.0002	0.00089542

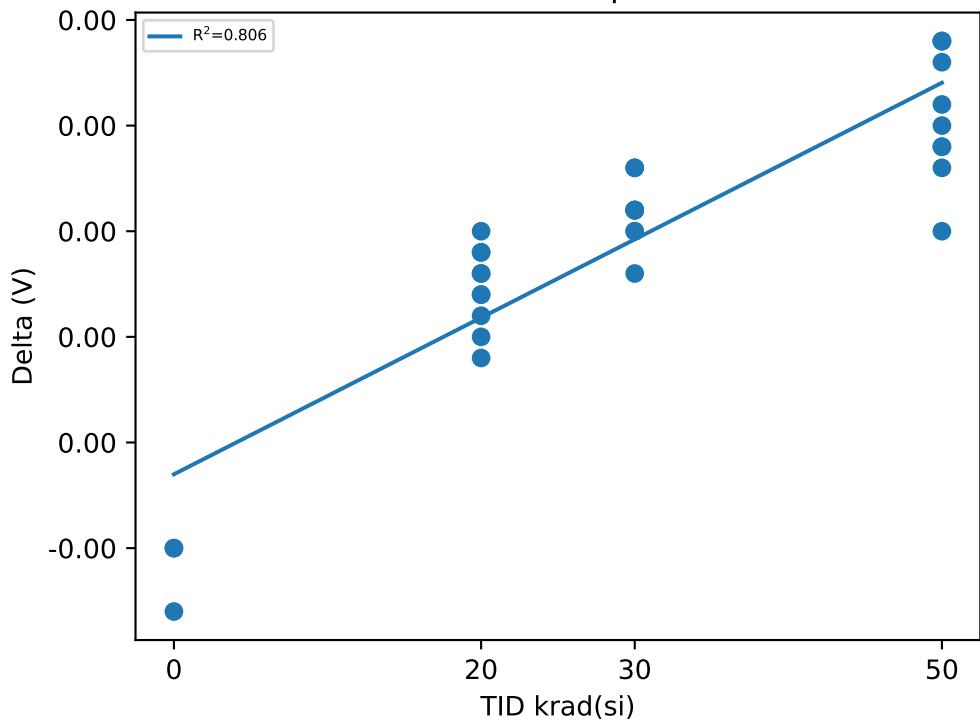
TID vs Result Stats



Test Results (Upper Limit = 0.25 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1176	0.1185	0.0009
22	20	HDR BIAS	0.1175	0.1182	0.0007
23	20	HDR BIAS	0.1174	0.118	0.0006
24	20	HDR BIAS	0.1183	0.1193	0.001
25	20	HDR BIAS	0.1166	0.1175	0.0009
26	20	HDR UNBIAS	0.1178	0.1183	0.0005
27	20	HDR UNBIAS	0.1183	0.1191	0.0008
28	20	HDR UNBIAS	0.1161	0.1165	0.0004
29	20	HDR UNBIAS	0.1192	0.12	0.0008
30	20	HDR UNBIAS	0.1169	0.1176	0.0007
31	30	HDR BIAS	0.1196	0.1207	0.0011
32	30	HDR BIAS	0.1184	0.1195	0.0011
33	30	HDR BIAS	0.1164	0.1177	0.0013
34	30	HDR BIAS	0.1167	0.118	0.0013
35	30	HDR BIAS	0.1175	0.1186	0.0011
36	30	HDR UNBIAS	0.1174	0.1185	0.0011
37	30	HDR UNBIAS	0.1174	0.1184	0.001
38	30	HDR UNBIAS	0.1184	0.1192	0.0008
39	30	HDR UNBIAS	0.1179	0.119	0.0011
40	30	HDR UNBIAS	0.1185	0.1195	0.001
41	50	HDR BIAS	0.1179	0.1193	0.0014
42	50	HDR BIAS	0.118	0.1199	0.0019
43	50	HDR BIAS	0.1167	0.1183	0.0016
44	50	HDR BIAS	0.1179	0.1198	0.0019
45	50	HDR BIAS	0.1176	0.1191	0.0015
46	50	HDR UNBIAS	0.1186	0.1199	0.0013
47	50	HDR UNBIAS	0.1173	0.1183	0.001
48	50	HDR UNBIAS	0.117	0.1184	0.0014
49	50	HDR UNBIAS	0.1167	0.1186	0.0019
50	50	HDR UNBIAS	0.1169	0.1187	0.0018
71	0	CORRELATION	0.1172	0.1164	-0.0008
72	0	CORRELATION	0.1166	0.1161	-0.0005
73	0	CORRELATION	0.1178	0.1173	-0.0005

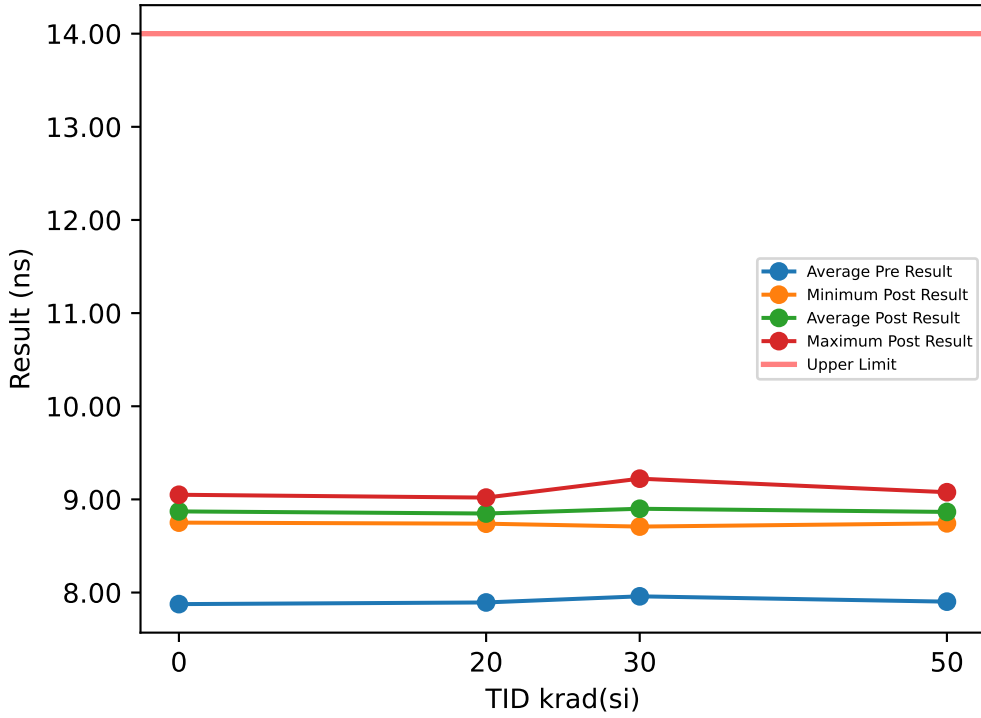
TID vs Post - Pre Exposure Delta



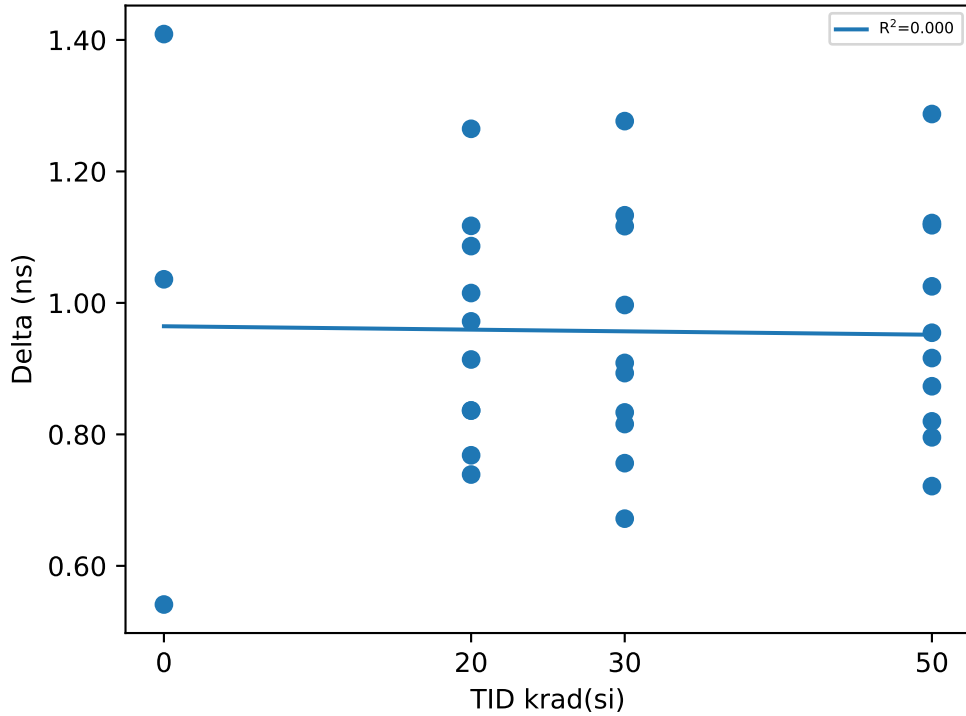
Test Statistics (V)

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	0.1166	0.1172	0.1178	0.0006	0.1161	0.1166	0.1173	0.0006245	-0.0008	-0.0006	-0.0005	0.00017321
20	0.1161	0.11757	0.1192	0.00090437	0.1165	0.1183	0.12	0.0010022	0.0004	0.00073	0.001	0.00018886
30	0.1164	0.11782	0.1196	0.00094493	0.1177	0.11891	0.1207	0.0008698	0.0008	0.00109	0.0013	0.00014491
50	0.1167	0.11746	0.1186	0.00064153	0.1183	0.11903	0.1199	0.00066173	0.001	0.00157	0.0019	0.00030569

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 14.0 (ns))

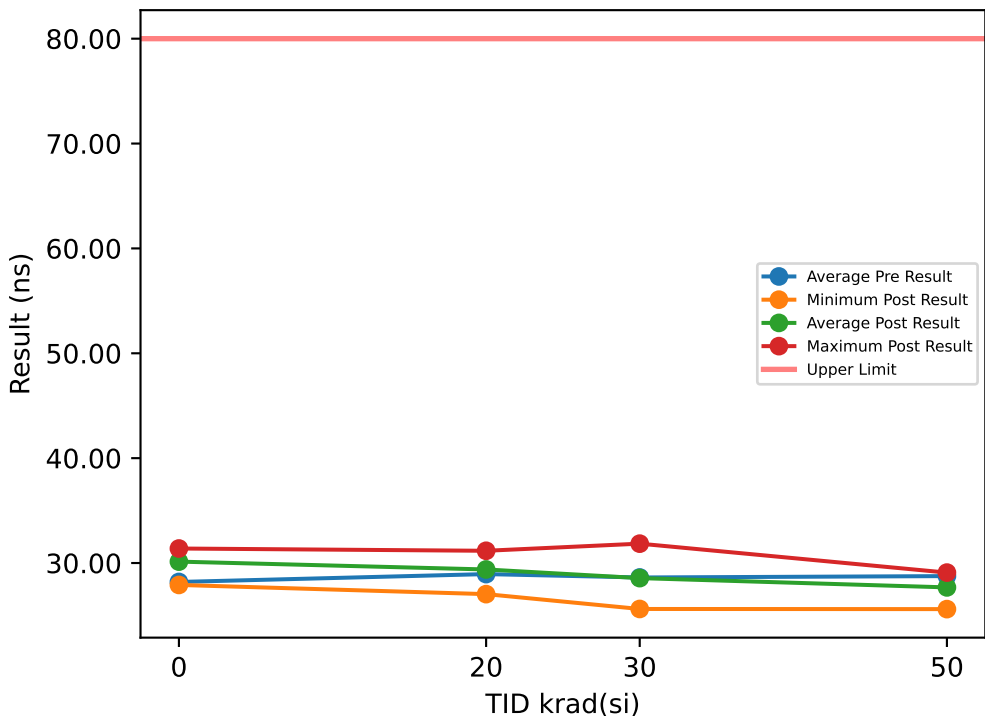
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.6964	8.8136	1.1172
22	20	HDR BIAS	7.9839	8.9558	0.9719
23	20	HDR BIAS	7.5253	8.7901	1.2648
24	20	HDR BIAS	7.9712	8.8076	0.8364
25	20	HDR BIAS	8.2174	8.9856	0.7682
26	20	HDR UNBIAS	7.7144	8.8008	1.0864
27	20	HDR UNBIAS	7.8816	8.7955	0.9139
28	20	HDR UNBIAS	8.2805	9.0194	0.7389
29	20	HDR UNBIAS	7.7243	8.7393	1.015
30	20	HDR UNBIAS	7.9402	8.7764	0.8362
31	30	HDR BIAS	8.3241	9.0803	0.7562
32	30	HDR BIAS	7.5528	8.8293	1.2765
33	30	HDR BIAS	7.9146	8.748	0.8334
34	30	HDR BIAS	8.1731	9.0663	0.8932
35	30	HDR BIAS	7.6187	8.752	1.1333
36	30	HDR UNBIAS	8.0364	8.7082	0.6718
37	30	HDR UNBIAS	8.1059	9.2226	1.1167
38	30	HDR UNBIAS	7.8548	8.7635	0.9087
39	30	HDR UNBIAS	7.8277	8.8245	0.9968
40	30	HDR UNBIAS	8.1852	9.0009	0.8157
41	50	HDR BIAS	7.6921	8.8102	1.1181
42	50	HDR BIAS	7.7495	8.7747	1.0252
43	50	HDR BIAS	8.1264	8.9996	0.8732
44	50	HDR BIAS	7.7883	8.7429	0.9546
45	50	HDR BIAS	7.9577	8.7775	0.8198
46	50	HDR UNBIAS	8.2954	9.0167	0.7213
47	50	HDR UNBIAS	7.6647	8.7862	1.1215
48	50	HDR UNBIAS	8.0521	8.8476	0.7955
49	50	HDR UNBIAS	8.1609	9.077	0.9161
50	50	HDR UNBIAS	7.5352	8.8225	1.2873
71	0	CORRELATION	7.6409	9.0498	1.4089
72	0	CORRELATION	7.7148	8.7507	1.0359
73	0	CORRELATION	8.2715	8.8127	0.5412

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.6409	7.8757	8.2715	0.34473	8.7507	8.8711	9.0498	0.15786	0.5412	0.99533	1.4089	0.43527
20	7.5253	7.8935	8.2805	0.23719	8.7393	8.8484	9.0194	0.098897	0.7389	0.95489	1.2648	0.16829
30	7.5528	7.9593	8.3241	0.25138	8.7082	8.8996	9.2226	0.17812	0.6718	0.94023	1.2765	0.18878
50	7.5352	7.9022	8.2954	0.25141	8.7429	8.8655	9.077	0.11931	0.7213	0.96326	1.2873	0.17497

# Device Test: 25.1 TIMING|LEB/EN/5/5/0/0/5/500kHz//@T\_LEB

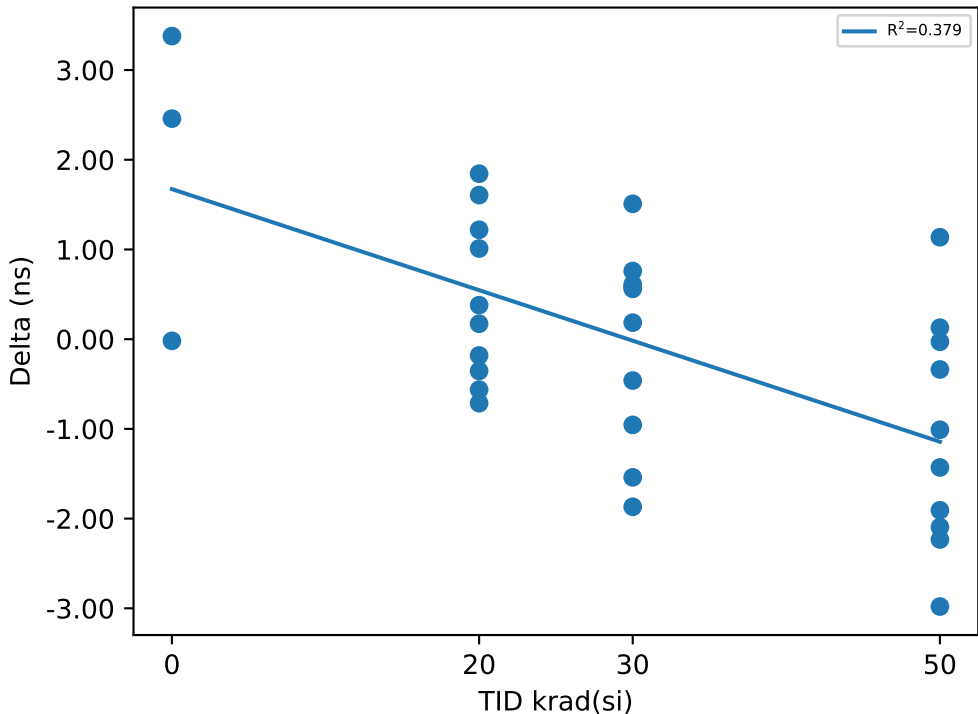
## TID vs Result Stats



## Test Results (Upper Limit = 80.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	28.716	28.362	-0.3541
22	20	HDR BIAS	29.562	31.168	1.6059
23	20	HDR BIAS	28.951	29.331	0.3794
24	20	HDR BIAS	31.421	30.708	-0.7134
25	20	HDR BIAS	28.463	29.682	1.2194
26	20	HDR UNBIAS	28.383	28.202	-0.1814
27	20	HDR UNBIAS	29.456	30.467	1.0107
28	20	HDR UNBIAS	28.792	30.637	1.8443
29	20	HDR UNBIAS	26.862	27.034	0.1718
30	20	HDR UNBIAS	28.837	28.274	-0.5628
31	30	HDR BIAS	27.306	27.918	0.6119
32	30	HDR BIAS	26.08	25.619	-0.4609
33	30	HDR BIAS	33.387	31.847	-1.5401
34	30	HDR BIAS	28.567	29.326	0.7594
35	30	HDR BIAS	26.389	26.95	0.5609
36	30	HDR UNBIAS	30.466	29.511	-0.9553
37	30	HDR UNBIAS	27.745	28.335	0.5895
38	30	HDR UNBIAS	28.144	28.328	0.1842
39	30	HDR UNBIAS	32.912	31.044	-1.8683
40	30	HDR UNBIAS	25.226	26.735	1.509
41	50	HDR BIAS	30.561	28.328	-2.2327
42	50	HDR BIAS	28.151	26.721	-1.4299
43	50	HDR BIAS	28.866	28.837	-0.0289
44	50	HDR BIAS	26.614	25.605	-1.0095
45	50	HDR BIAS	30.791	27.811	-2.9799
46	50	HDR UNBIAS	25.872	27.008	1.1363
47	50	HDR UNBIAS	31.049	28.955	-2.0944
48	50	HDR UNBIAS	28.469	26.562	-1.9071
49	50	HDR UNBIAS	28.189	27.852	-0.3376
50	50	HDR UNBIAS	28.959	29.087	0.1278
71	0	CORRELATION	28.649	31.108	2.4584
72	0	CORRELATION	27.929	27.91	-0.0184
73	0	CORRELATION	28.005	31.384	3.3785

## TID vs Post - Pre Exposure Delta

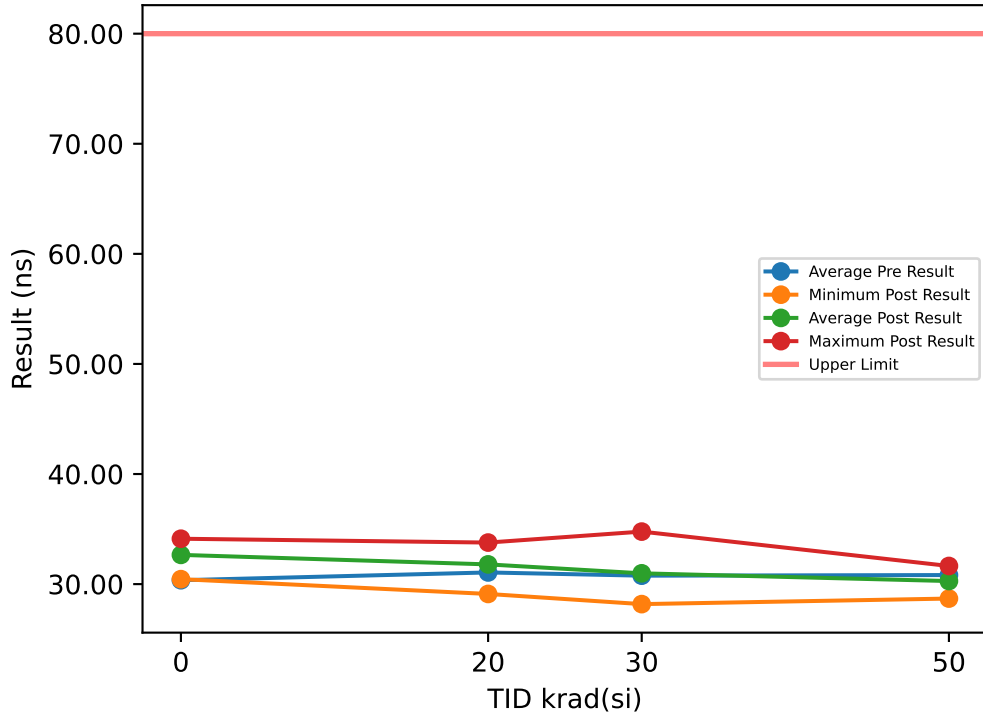


## Test Statistics (ns)

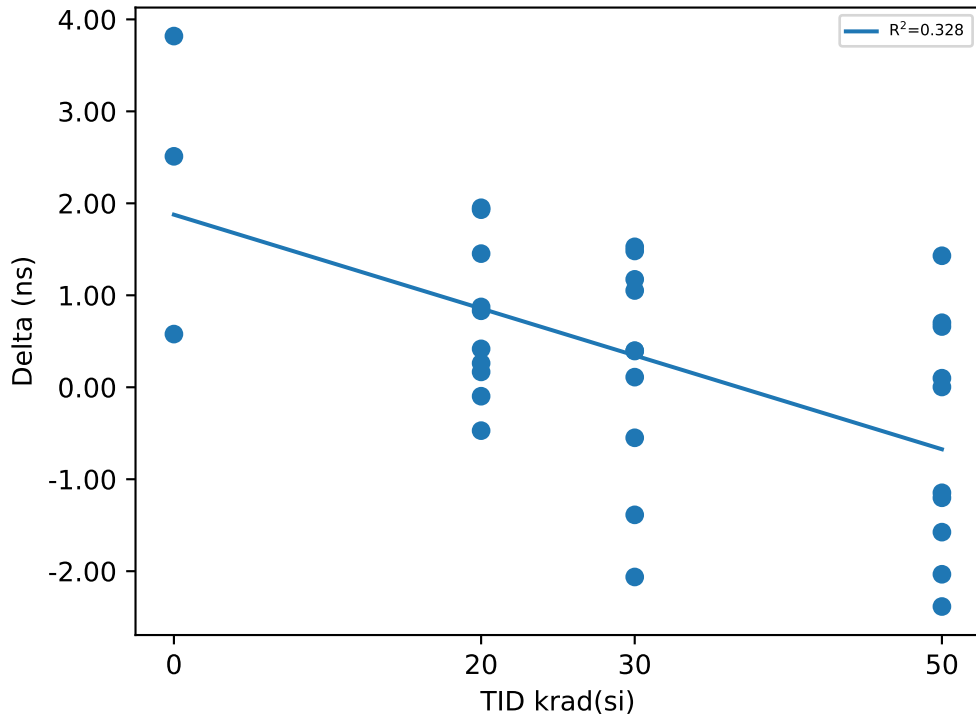
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	27.929	28.194	28.649	0.39572	27.91	30.134	31.384	1.9305	-0.0184	1.9395	3.3785	1.7569
20	26.862	28.944	31.421	1.1425	27.034	29.386	31.168	1.373	-0.7134	0.44198	1.8443	0.92453
30	25.226	28.622	33.387	2.7934	25.619	28.561	31.847	1.9309	-1.8683	-0.06097	1.509	1.0992
50	25.872	28.752	31.049	1.7122	25.605	27.676	29.087	1.1708	-2.9799	-1.0756	1.1363	1.2826

# Device Test: 25.4 TIMING|LEB/EN/12/12/0/0/5/500kHz//@T\_LEB

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 80.0 (ns))

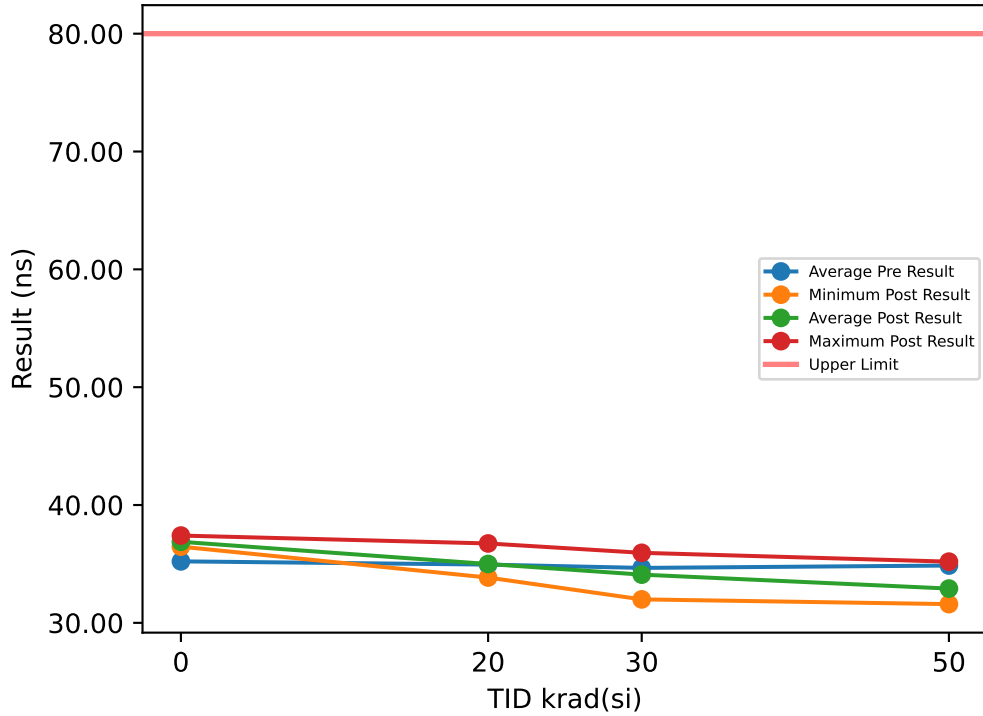
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	30.542	30.96	0.4175
22	20	HDR BIAS	31.843	33.774	1.9308
23	20	HDR BIAS	31.371	32.245	0.8734
24	20	HDR BIAS	33.664	33.192	-0.4717
25	20	HDR BIAS	30.659	32.112	1.453
26	20	HDR UNBIAS	30.647	30.814	0.167
27	20	HDR UNBIAS	31.416	32.247	0.8316
28	20	HDR UNBIAS	31.051	33.002	1.9516
29	20	HDR UNBIAS	28.846	29.107	0.2613
30	20	HDR UNBIAS	30.56	30.462	-0.0974
31	30	HDR BIAS	29.411	30.938	1.5269
32	30	HDR BIAS	28.073	28.183	0.11
33	30	HDR BIAS	36.158	34.77	-1.3873
34	30	HDR BIAS	30.727	31.9	1.1733
35	30	HDR BIAS	28.301	28.695	0.394
36	30	HDR UNBIAS	32.371	31.822	-0.5495
37	30	HDR UNBIAS	29.655	30.707	1.052
38	30	HDR UNBIAS	30.291	30.689	0.3983
39	30	HDR UNBIAS	35.516	33.453	-2.0628
40	30	HDR UNBIAS	27.166	28.648	1.482
41	50	HDR BIAS	32.541	31.339	-1.2017
42	50	HDR BIAS	30.336	29.188	-1.1475
43	50	HDR BIAS	30.837	31.497	0.6603
44	50	HDR BIAS	28.589	28.688	0.0986
45	50	HDR BIAS	33.104	30.72	-2.384
46	50	HDR UNBIAS	27.64	29.07	1.4298
47	50	HDR UNBIAS	33.392	31.358	-2.0334
48	50	HDR UNBIAS	30.35	28.774	-1.5753
49	50	HDR UNBIAS	30.501	30.504	0.0031
50	50	HDR UNBIAS	30.945	31.647	0.7016
71	0	CORRELATION	30.883	33.394	2.5109
72	0	CORRELATION	29.873	30.451	0.5781
73	0	CORRELATION	30.304	34.123	3.8184

## Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	29.873	30.353	30.883	0.50714	30.451	32.656	34.123	1.9442	0.5781	2.3025	3.8184	1.6302
20	28.846	31.06	33.664	1.2189	29.107	31.792	33.774	1.4335	-0.4717	0.73171	1.9516	0.83339
30	27.166	30.767	36.158	3.0514	28.183	30.981	34.77	2.1262	-2.0628	0.21369	1.5269	1.2185
50	27.64	30.823	33.392	1.8394	28.688	30.279	31.647	1.2172	-2.384	-0.54485	1.4298	1.2942

# Device Test: 25.7 TIMING|LEB/EN/14/14/0/0/5/500kHz//@T\_LEB

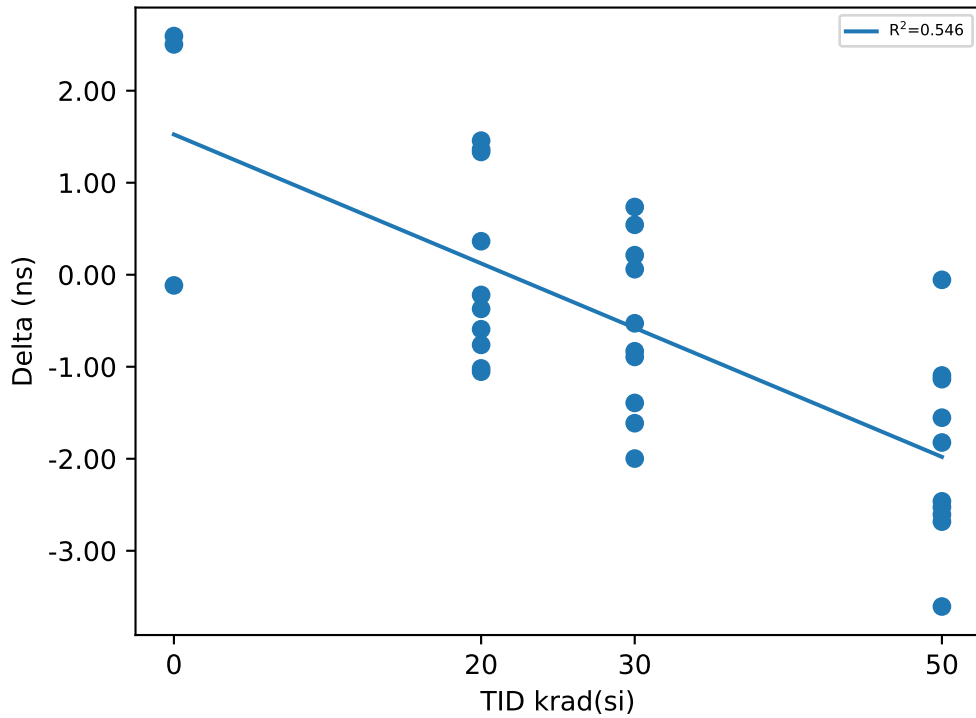
## TID vs Result Stats



## Test Results (Upper Limit = 80.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	35.247	34.654	-0.5923
22	20	HDR BIAS	35.281	36.739	1.4574
23	20	HDR BIAS	35.211	35.575	0.3641
24	20	HDR BIAS	34.719	33.957	-0.7621
25	20	HDR BIAS	34.754	36.117	1.3635
26	20	HDR UNBIAS	34.131	33.911	-0.2197
27	20	HDR UNBIAS	35.115	34.097	-1.0181
28	20	HDR UNBIAS	34.584	35.918	1.3345
29	20	HDR UNBIAS	34.215	33.844	-0.3711
30	20	HDR UNBIAS	36.192	35.138	-1.0536
31	30	HDR BIAS	32.879	33.615	0.7361
32	30	HDR BIAS	32.519	31.992	-0.5277
33	30	HDR BIAS	37.272	35.879	-1.3932
34	30	HDR BIAS	34.961	35.504	0.5428
35	30	HDR BIAS	33.711	32.818	-0.893
36	30	HDR UNBIAS	37.558	35.944	-1.6136
37	30	HDR UNBIAS	33.614	33.674	0.0603
38	30	HDR UNBIAS	35.096	34.264	-0.8317
39	30	HDR UNBIAS	36.443	34.445	-1.9978
40	30	HDR UNBIAS	32.577	32.79	0.2125
41	50	HDR BIAS	33.684	32.13	-1.5536
42	50	HDR BIAS	36.033	33.426	-2.6066
43	50	HDR BIAS	35.249	35.194	-0.0554
44	50	HDR BIAS	33.413	31.59	-1.8232
45	50	HDR BIAS	36.559	33.876	-2.6833
46	50	HDR UNBIAS	34.453	33.318	-1.135
47	50	HDR UNBIAS	34.73	32.267	-2.4627
48	50	HDR UNBIAS	35.697	32.091	-3.6058
49	50	HDR UNBIAS	33.811	32.717	-1.0947
50	50	HDR UNBIAS	35.006	32.479	-2.5264
71	0	CORRELATION	34.169	36.763	2.5938
72	0	CORRELATION	36.581	36.466	-0.1159
73	0	CORRELATION	34.905	37.408	2.5031

## TID vs Post - Pre Exposure Delta



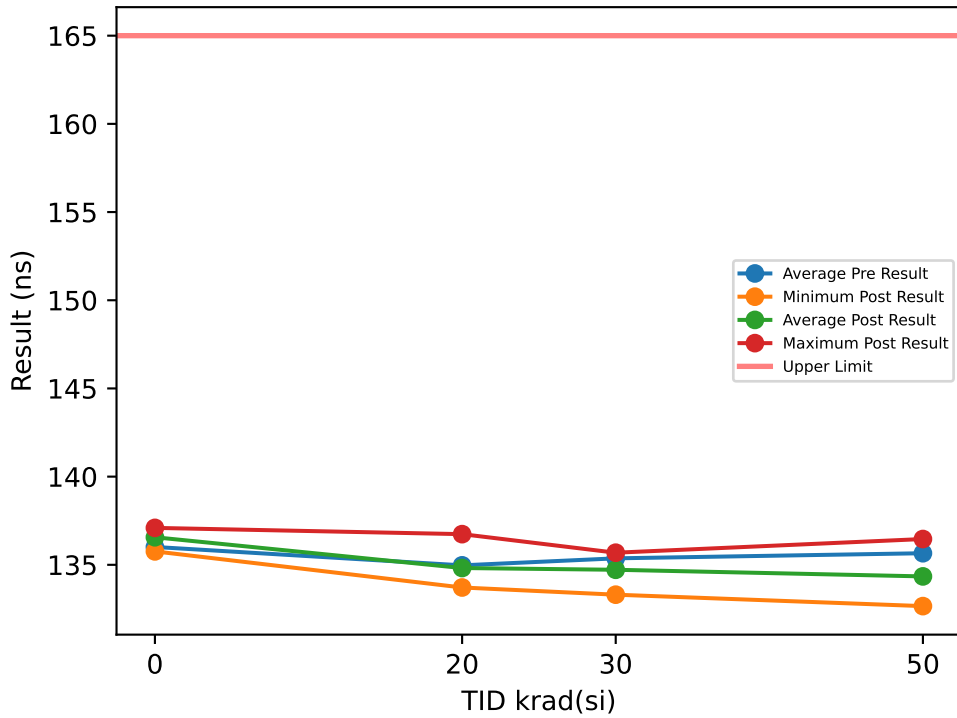
## Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	34.169	35.219	36.581	1.2365	36.466	36.879	37.408	0.48209	-0.1159	1.6603	2.5938	1.5389
20	34.131	34.945	36.192	0.60286	33.844	34.995	36.739	1.0544	-1.0536	0.05026	1.4574	1.0075
30	32.519	34.663	37.558	1.9081	31.992	34.093	35.944	1.3705	-1.9978	-0.57053	0.7361	0.9389
50	33.413	34.863	36.559	1.0486	31.59	32.909	35.194	1.0666	-3.6058	-1.9547	-0.0554	1.0254



Device Test: 26.1 TIMING|MIN/OUT/4.5/4.5/0/0/4.5/500kHz//@TON\_MIN

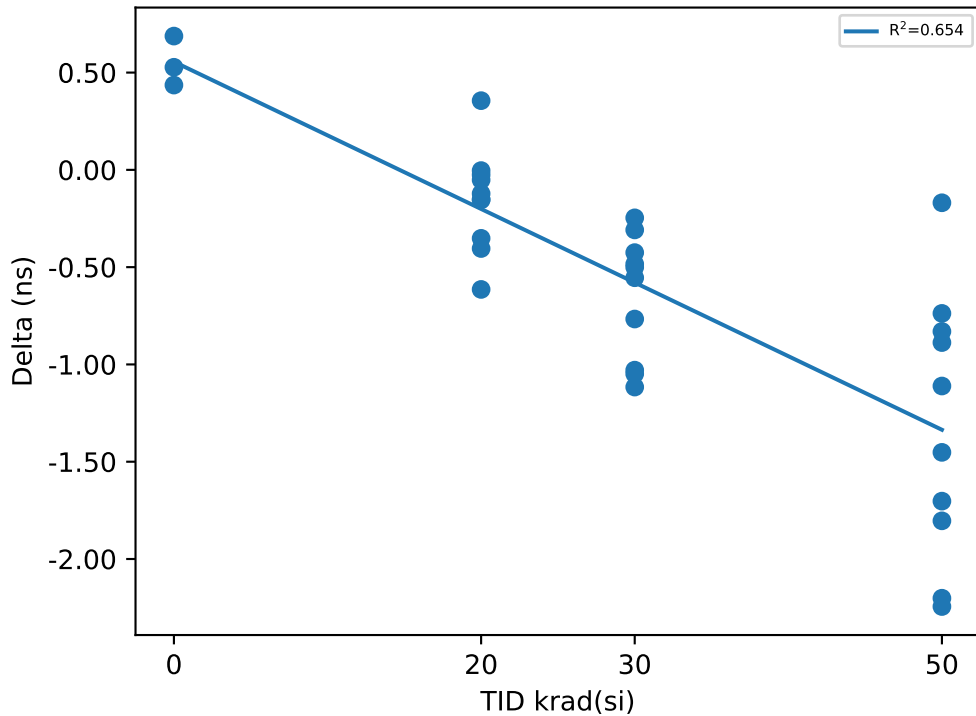
TID vs Result Stats



Test Results (Upper Limit = 165.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	134.23	134.22	-0.0037
22	20	HDR BIAS	136.79	136.74	-0.0518
23	20	HDR BIAS	135.57	135.55	-0.0253
24	20	HDR BIAS	133.93	134.28	0.3557
25	20	HDR BIAS	134.63	134.47	-0.1545
26	20	HDR UNBIAS	135.47	135.32	-0.1515
27	20	HDR UNBIAS	134.12	133.71	-0.4042
28	20	HDR UNBIAS	135.3	134.69	-0.6145
29	20	HDR UNBIAS	134.88	134.76	-0.1221
30	20	HDR UNBIAS	134.78	134.43	-0.3519
31	30	HDR BIAS	135.9	135.6	-0.3086
32	30	HDR BIAS	134.37	134.13	-0.2466
33	30	HDR BIAS	134.7	134.27	-0.4253
34	30	HDR BIAS	135.45	134.95	-0.5004
35	30	HDR BIAS	136.17	135.69	-0.4839
36	30	HDR UNBIAS	135.4	134.37	-1.0294
37	30	HDR UNBIAS	136.27	135.16	-1.1163
38	30	HDR UNBIAS	136.22	135.45	-0.7666
39	30	HDR UNBIAS	134.83	134.28	-0.5544
40	30	HDR UNBIAS	134.36	133.31	-1.0485
41	50	HDR BIAS	134.38	134.21	-0.1691
42	50	HDR BIAS	137.29	136.46	-0.8305
43	50	HDR BIAS	135.7	134.59	-1.1109
44	50	HDR BIAS	134.65	133.76	-0.8876
45	50	HDR BIAS	136.42	135.68	-0.7377
46	50	HDR UNBIAS	137.22	135.02	-2.2016
47	50	HDR UNBIAS	135.4	133.95	-1.4519
48	50	HDR UNBIAS	136.07	133.83	-2.2442
49	50	HDR UNBIAS	134.36	132.66	-1.7026
50	50	HDR UNBIAS	135.08	133.28	-1.8038
71	0	CORRELATION	135.33	135.76	0.4358
72	0	CORRELATION	136.14	136.83	0.6876
73	0	CORRELATION	136.57	137.09	0.5273

TID vs Post - Pre Exposure Delta

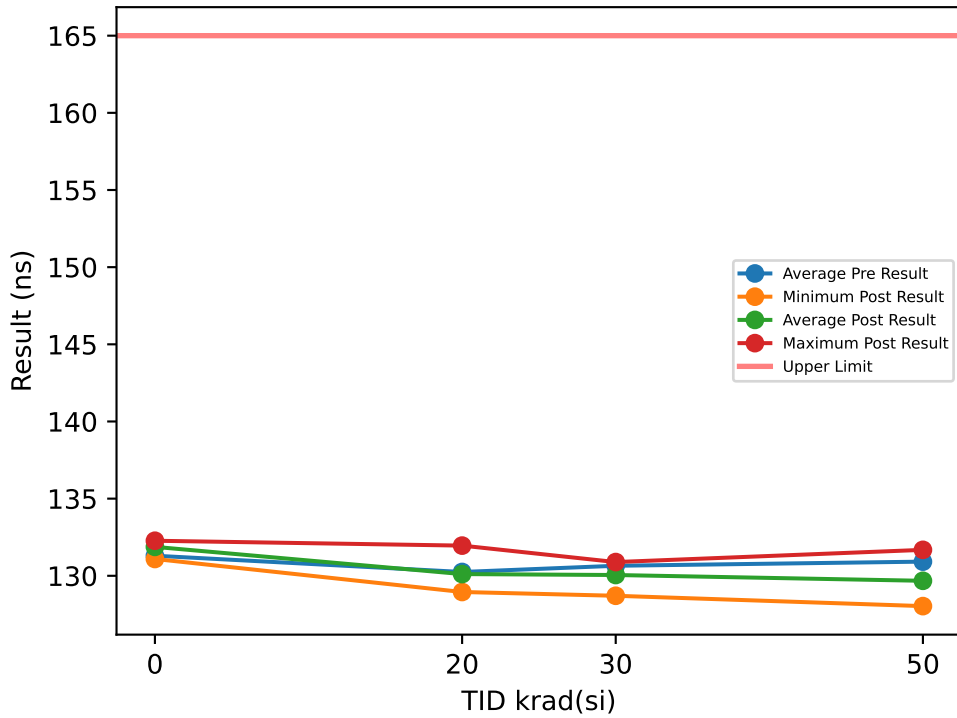


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	135.33	136.01	136.57	0.63106	135.76	136.56	137.09	0.70608	0.4358	0.55023	0.6876	0.12746
20	133.93	134.97	136.79	0.85433	133.71	134.82	136.74	0.85781	-0.6145	-0.15238	0.3557	0.26336
30	134.36	135.37	136.27	0.76233	133.31	134.72	135.69	0.77071	-1.1163	-0.648	-0.2466	0.32018
50	134.36	135.66	137.29	1.0844	132.66	134.34	136.46	1.1321	-2.2442	-1.314	-0.1691	0.6801

# Device Test: 26.2 TIMING|MIN/OUT/5/5/0/0/5/500kHz//@TON\_MIN

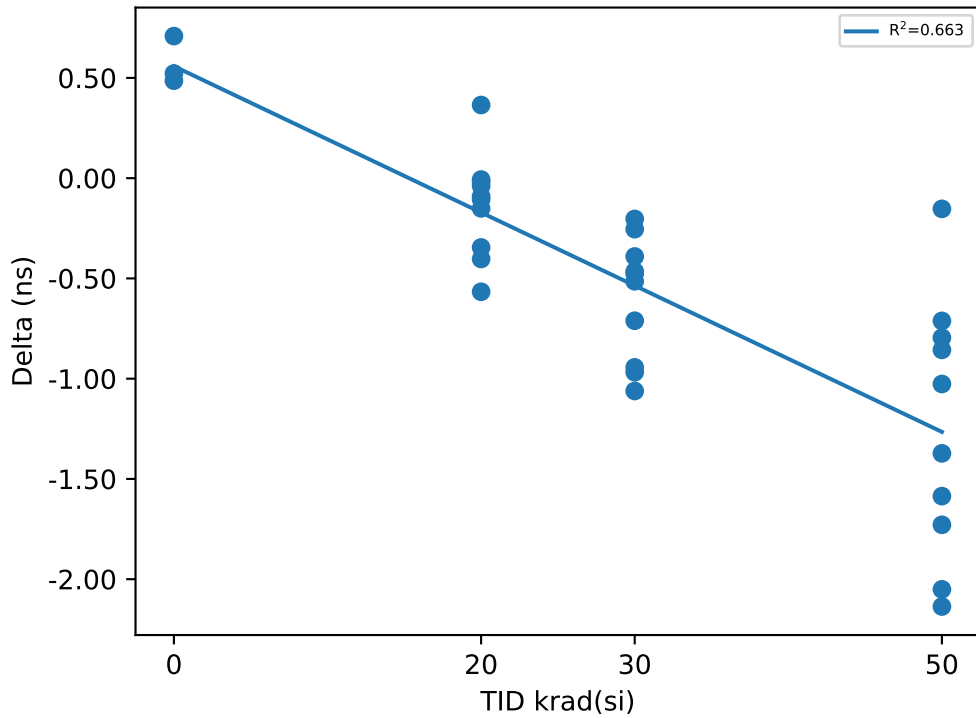
## TID vs Result Stats



## Test Results (Upper Limit = 165.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	129.49	129.48	-0.0069
22	20	HDR BIAS	132	131.96	-0.0395
23	20	HDR BIAS	130.83	130.81	-0.0186
24	20	HDR BIAS	129.05	129.41	0.3648
25	20	HDR BIAS	130.05	129.9	-0.1508
26	20	HDR UNBIAS	130.64	130.53	-0.1054
27	20	HDR UNBIAS	129.35	128.95	-0.403
28	20	HDR UNBIAS	130.72	130.15	-0.5666
29	20	HDR UNBIAS	130.16	130.06	-0.0909
30	20	HDR UNBIAS	130.2	129.85	-0.3455
31	30	HDR BIAS	131	130.75	-0.2543
32	30	HDR BIAS	129.57	129.37	-0.2033
33	30	HDR BIAS	130.12	129.73	-0.3906
34	30	HDR BIAS	130.9	130.43	-0.4654
35	30	HDR BIAS	131.37	130.89	-0.4761
36	30	HDR UNBIAS	130.82	129.85	-0.9678
37	30	HDR UNBIAS	131.51	130.45	-1.0615
38	30	HDR UNBIAS	131.53	130.81	-0.7111
39	30	HDR UNBIAS	130.04	129.53	-0.5143
40	30	HDR UNBIAS	129.65	128.71	-0.9437
41	50	HDR BIAS	129.69	129.54	-0.1531
42	50	HDR BIAS	132.48	131.68	-0.7956
43	50	HDR BIAS	131.05	130.03	-1.0265
44	50	HDR BIAS	129.85	129	-0.8564
45	50	HDR BIAS	131.57	130.86	-0.7118
46	50	HDR UNBIAS	132.5	130.45	-2.0506
47	50	HDR UNBIAS	130.68	129.31	-1.3724
48	50	HDR UNBIAS	131.34	129.2	-2.1363
49	50	HDR UNBIAS	129.62	128.04	-1.5858
50	50	HDR UNBIAS	130.39	128.66	-1.7288
71	0	CORRELATION	130.6	131.09	0.4862
72	0	CORRELATION	131.55	132.26	0.7086
73	0	CORRELATION	131.75	132.27	0.5219

## TID vs Post - Pre Exposure Delta

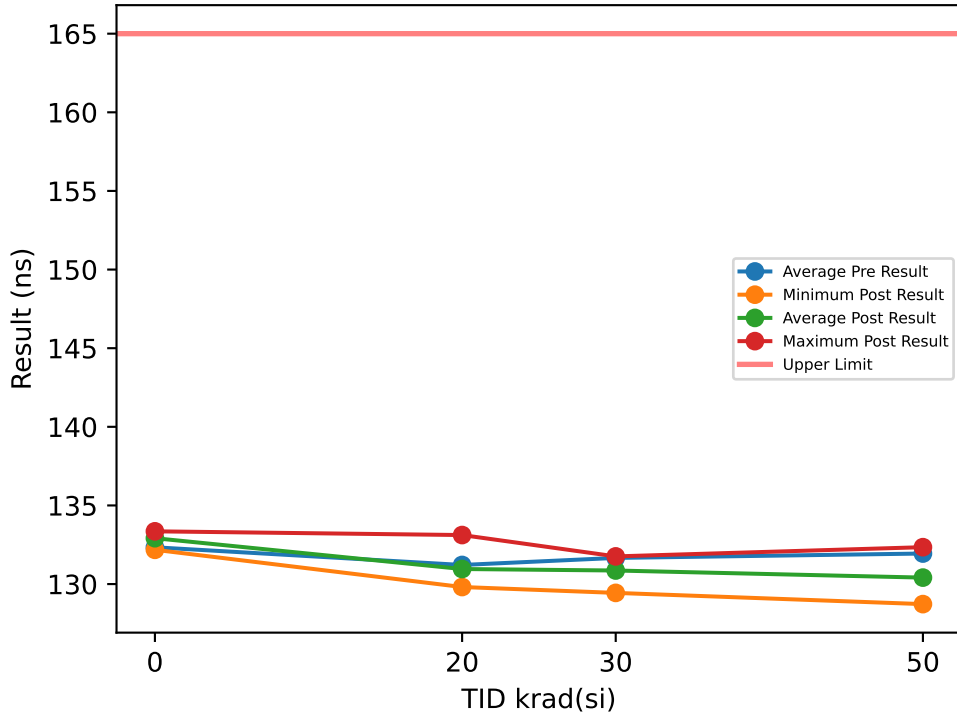


## Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	130.6	131.3	131.75	0.61253	131.09	131.87	132.27	0.67896	0.4862	0.57223	0.7086	0.11944
20	129.05	130.25	132	0.8584	128.95	130.11	131.96	0.84449	-0.5666	-0.13624	0.3648	0.25698
30	129.57	130.65	131.53	0.74861	128.71	130.05	130.89	0.72765	-1.0615	-0.59881	-0.2033	0.30555
50	129.62	130.92	132.5	1.0642	128.04	129.68	131.68	1.09	-2.1363	-1.2417	-0.1531	0.64005

# Device Test: 26.3 TIMING|MIN/OUT/12/12/0/0/5/500kHz//@TON\_MIN

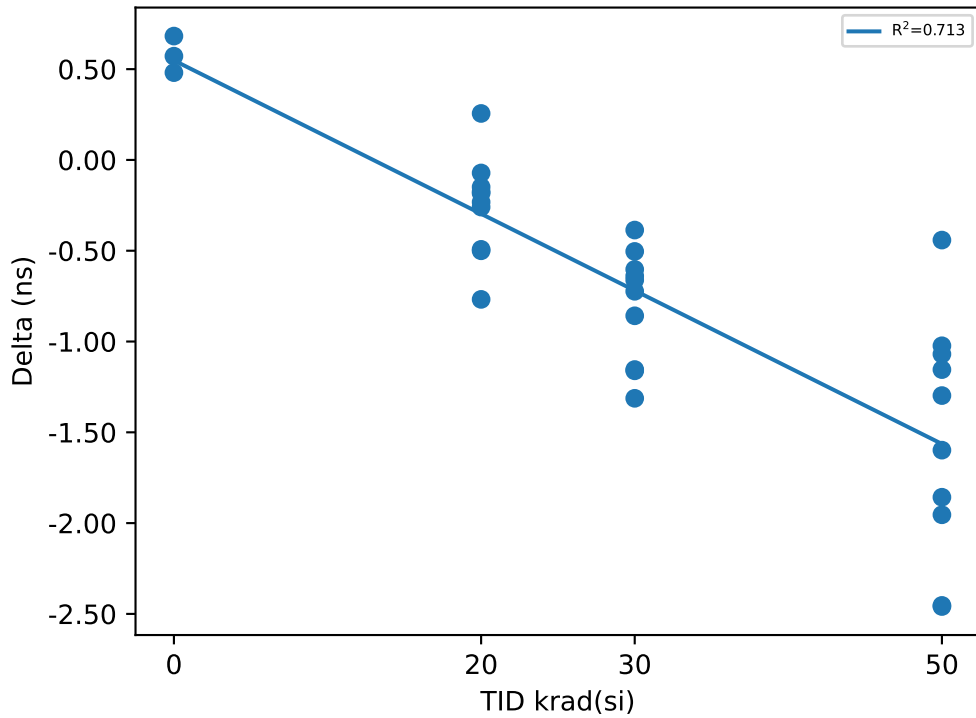
### TID vs Result Stats



### Test Results (Upper Limit = 165.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	130.23	130.16	-0.0717
22	20	HDR BIAS	133.3	133.12	-0.1837
23	20	HDR BIAS	131.64	131.49	-0.149
24	20	HDR BIAS	129.82	130.08	0.256
25	20	HDR BIAS	131.05	130.79	-0.2596
26	20	HDR UNBIAS	131.43	131.2	-0.2322
27	20	HDR UNBIAS	130.31	129.81	-0.5003
28	20	HDR UNBIAS	131.89	131.12	-0.7679
29	20	HDR UNBIAS	131.25	131.08	-0.1747
30	20	HDR UNBIAS	131.22	130.72	-0.4924
31	30	HDR BIAS	131.9	131.4	-0.5038
32	30	HDR BIAS	130.41	130.02	-0.3861
33	30	HDR BIAS	131.33	130.73	-0.6029
34	30	HDR BIAS	132.1	131.44	-0.6615
35	30	HDR BIAS	132.4	131.76	-0.6391
36	30	HDR UNBIAS	132.07	130.91	-1.1613
37	30	HDR UNBIAS	132.34	131.03	-1.3127
38	30	HDR UNBIAS	132.6	131.74	-0.8583
39	30	HDR UNBIAS	130.88	130.16	-0.7233
40	30	HDR UNBIAS	130.59	129.44	-1.1542
41	50	HDR BIAS	130.76	130.32	-0.4413
42	50	HDR BIAS	133.42	132.35	-1.0693
43	50	HDR BIAS	132.33	131.03	-1.2976
44	50	HDR BIAS	130.77	129.61	-1.1546
45	50	HDR BIAS	132.62	131.6	-1.0234
46	50	HDR UNBIAS	133.65	131.19	-2.4593
47	50	HDR UNBIAS	131.57	129.98	-1.5982
48	50	HDR UNBIAS	132.31	129.85	-2.4532
49	50	HDR UNBIAS	130.58	128.73	-1.8575
50	50	HDR UNBIAS	131.42	129.46	-1.9541
71	0	CORRELATION	131.7	132.18	0.4808
72	0	CORRELATION	132.54	133.22	0.6821
73	0	CORRELATION	132.78	133.35	0.5715

### TID vs Post - Pre Exposure Delta

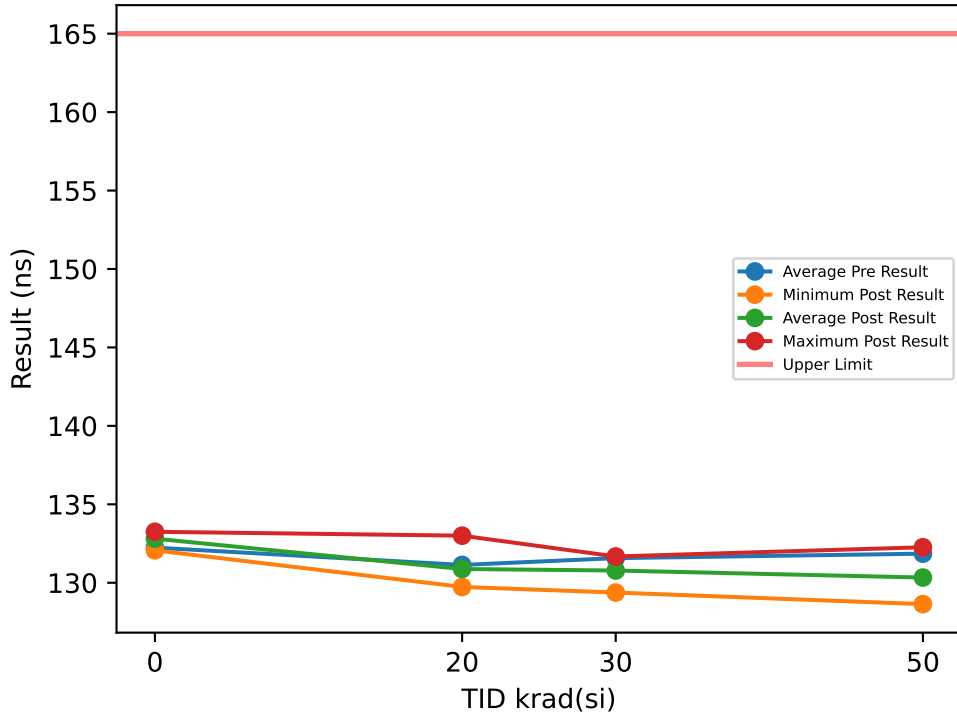


### Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	131.7	132.34	132.78	0.56827	132.18	132.92	133.35	0.64258	0.4808	0.57813	0.6821	0.10081
20	129.82	131.21	133.3	0.98803	129.81	130.96	133.12	0.93431	-0.7679	-0.25755	0.256	0.2784
30	130.41	131.66	132.6	0.79848	129.44	130.86	131.76	0.77988	-1.3127	-0.80032	-0.3861	0.31111
50	130.58	131.94	133.65	1.0987	128.73	130.41	132.35	1.107	-2.4593	-1.5308	-0.4413	0.65462

# Device Test: 26.4 TIMING|MIN/OUT/14/14/0/0/5/500kHz//@TON\_MIN

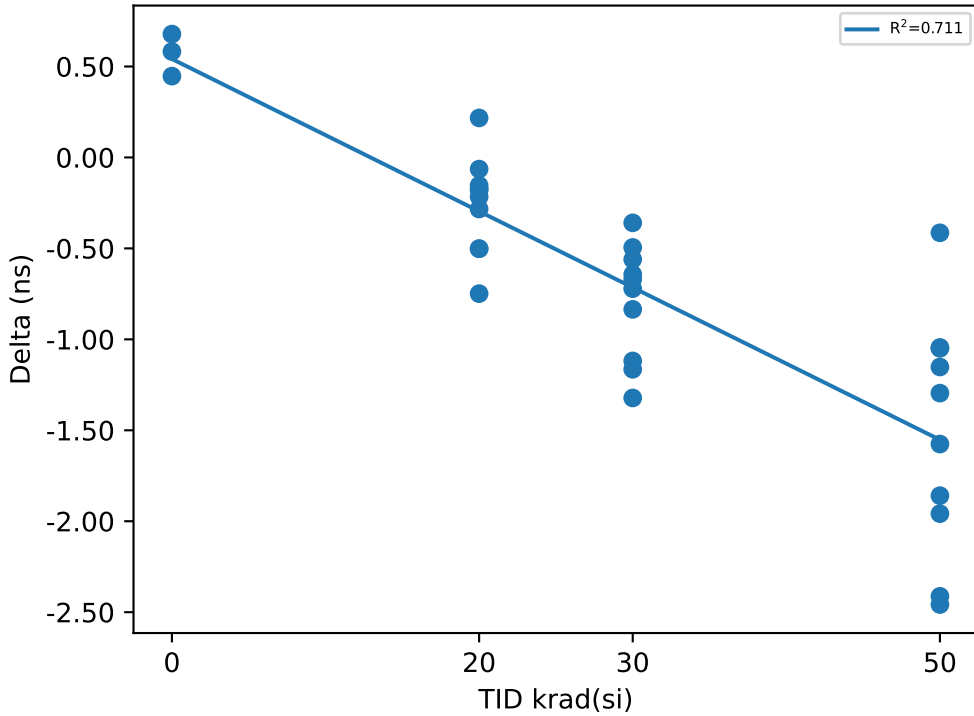
### TID vs Result Stats



### Test Results (Upper Limit = 165.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	130.16	130.1	-0.064
22	20	HDR BIAS	133.18	133	-0.1797
23	20	HDR BIAS	131.57	131.42	-0.1538
24	20	HDR BIAS	129.79	130	0.2172
25	20	HDR BIAS	130.98	130.69	-0.2836
26	20	HDR UNBIAS	131.35	131.14	-0.2162
27	20	HDR UNBIAS	130.24	129.73	-0.5019
28	20	HDR UNBIAS	131.79	131.04	-0.7488
29	20	HDR UNBIAS	131.17	131	-0.1727
30	20	HDR UNBIAS	131.14	130.63	-0.5015
31	30	HDR BIAS	131.79	131.3	-0.4947
32	30	HDR BIAS	130.32	129.96	-0.3596
33	30	HDR BIAS	131.24	130.67	-0.5604
34	30	HDR BIAS	132	131.33	-0.6696
35	30	HDR BIAS	132.31	131.67	-0.6425
36	30	HDR UNBIAS	131.97	130.81	-1.1647
37	30	HDR UNBIAS	132.24	130.92	-1.3222
38	30	HDR UNBIAS	132.51	131.68	-0.8352
39	30	HDR UNBIAS	130.82	130.09	-0.7213
40	30	HDR UNBIAS	130.49	129.38	-1.1187
41	50	HDR BIAS	130.65	130.23	-0.4143
42	50	HDR BIAS	133.31	132.26	-1.0492
43	50	HDR BIAS	132.21	130.92	-1.2957
44	50	HDR BIAS	130.69	129.54	-1.152
45	50	HDR BIAS	132.55	131.51	-1.0446
46	50	HDR UNBIAS	133.55	131.09	-2.4578
47	50	HDR UNBIAS	131.5	129.92	-1.5757
48	50	HDR UNBIAS	132.23	129.81	-2.4127
49	50	HDR UNBIAS	130.5	128.64	-1.8594
50	50	HDR UNBIAS	131.35	129.39	-1.9583
71	0	CORRELATION	131.62	132.07	0.447
72	0	CORRELATION	132.44	133.12	0.6782
73	0	CORRELATION	132.67	133.25	0.5825

### TID vs Post - Pre Exposure Delta

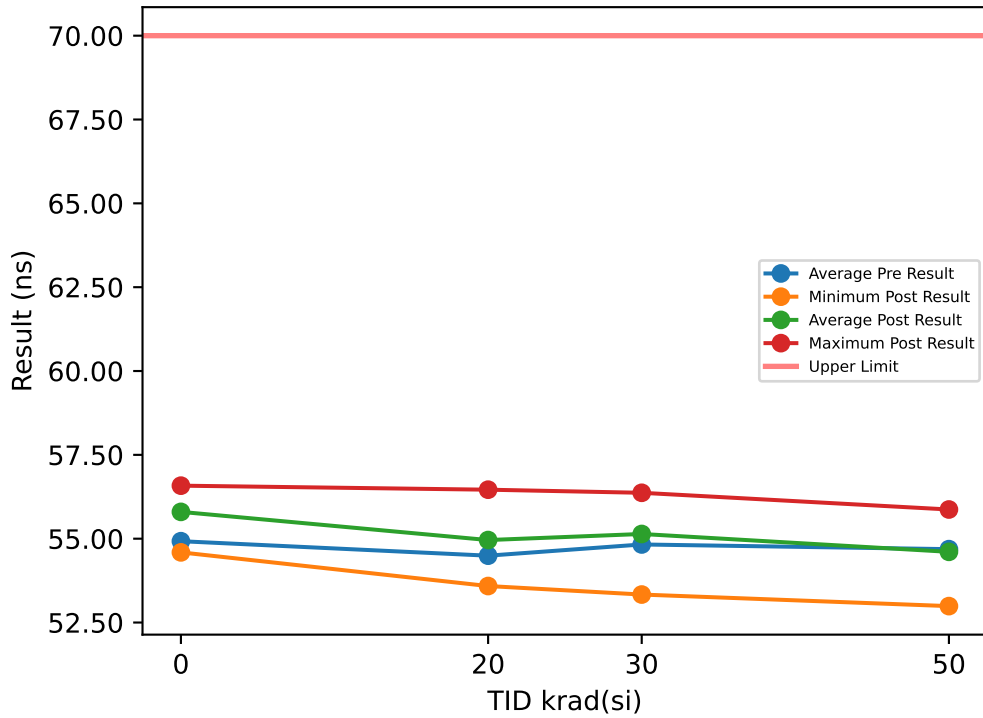


### Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	131.62	132.24	132.67	0.5509	132.07	132.81	133.25	0.6481	0.447	0.56923	0.6782	0.11617
20	129.79	131.14	133.18	0.96966	129.73	130.88	133	0.92448	-0.7488	-0.2605	0.2172	0.26868
30	130.32	131.57	132.51	0.79553	129.38	130.78	131.68	0.76888	-1.3222	-0.78889	-0.3596	0.3162
50	130.5	131.85	133.55	1.0946	128.64	130.33	132.26	1.098	-2.4578	-1.522	-0.4143	0.65343

# Device Test: 26.5 TIMING|EXT/OUT/4.5/4.5/0/0/4.5/500kHz//@T\_OFF\_EXTENDER

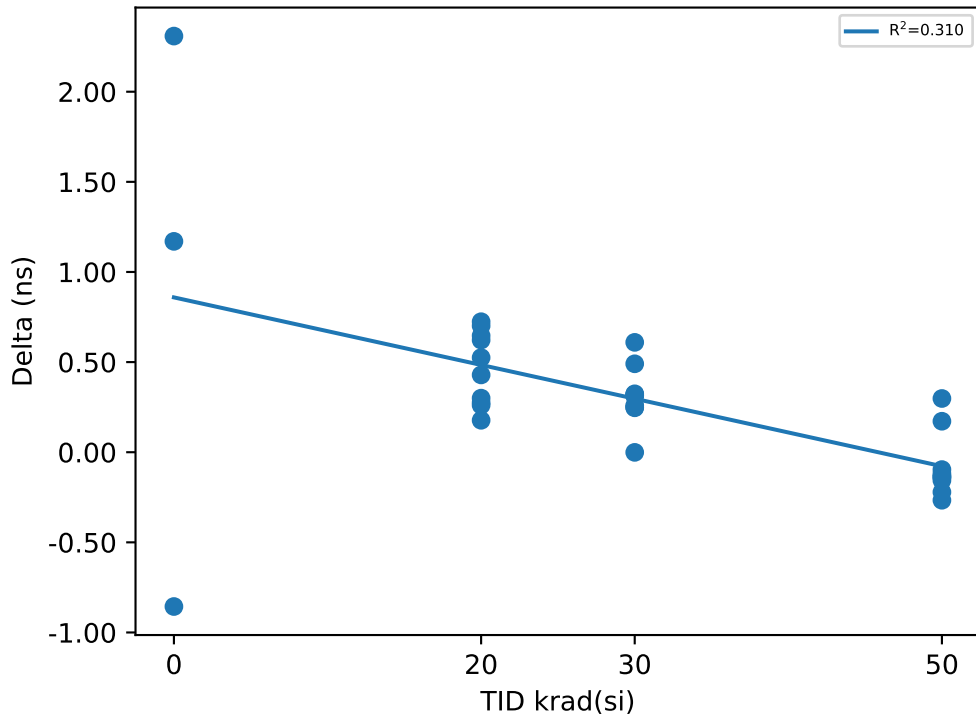
### TID vs Result Stats



### Test Results (Upper Limit = 70.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	53.453	53.714	0.261
22	20	HDR BIAS	55.359	55.884	0.5248
23	20	HDR BIAS	54.931	55.553	0.6223
24	20	HDR BIAS	53.411	53.588	0.1772
25	20	HDR BIAS	55.181	55.61	0.4289
26	20	HDR UNBIAS	54.675	55.322	0.6465
27	20	HDR UNBIAS	53.35	53.65	0.3
28	20	HDR UNBIAS	55.737	56.461	0.724
29	20	HDR UNBIAS	54.663	55.364	0.7012
30	20	HDR UNBIAS	54.173	54.448	0.2751
31	30	HDR BIAS	55.49	55.737	0.2465
32	30	HDR BIAS	54.677	54.992	0.3149
33	30	HDR BIAS	54.425	54.685	0.2597
34	30	HDR BIAS	55.759	56.369	0.6095
35	30	HDR BIAS	55.057	55.548	0.4906
36	30	HDR UNBIAS	53.915	54.236	0.3211
37	30	HDR UNBIAS	54.96	55.21	0.2498
38	30	HDR UNBIAS	55.021	55.345	0.324
39	30	HDR UNBIAS	53.335	53.334	-0.0008
40	30	HDR UNBIAS	55.637	55.95	0.3127
41	50	HDR BIAS	55.42	55.323	-0.0963
42	50	HDR BIAS	53.65	53.518	-0.1321
43	50	HDR BIAS	55.572	55.871	0.2981
44	50	HDR BIAS	54.509	54.353	-0.1563
45	50	HDR BIAS	53.6	53.334	-0.2664
46	50	HDR UNBIAS	55.009	54.89	-0.1193
47	50	HDR UNBIAS	55.804	55.583	-0.2213
48	50	HDR UNBIAS	53.128	52.989	-0.1388
49	50	HDR UNBIAS	55.091	55.263	0.1719
50	50	HDR UNBIAS	55.097	54.957	-0.1399
71	0	CORRELATION	55.411	56.581	1.1698
72	0	CORRELATION	53.916	56.225	2.3087
73	0	CORRELATION	55.448	54.592	-0.856

### TID vs Post - Pre Exposure Delta

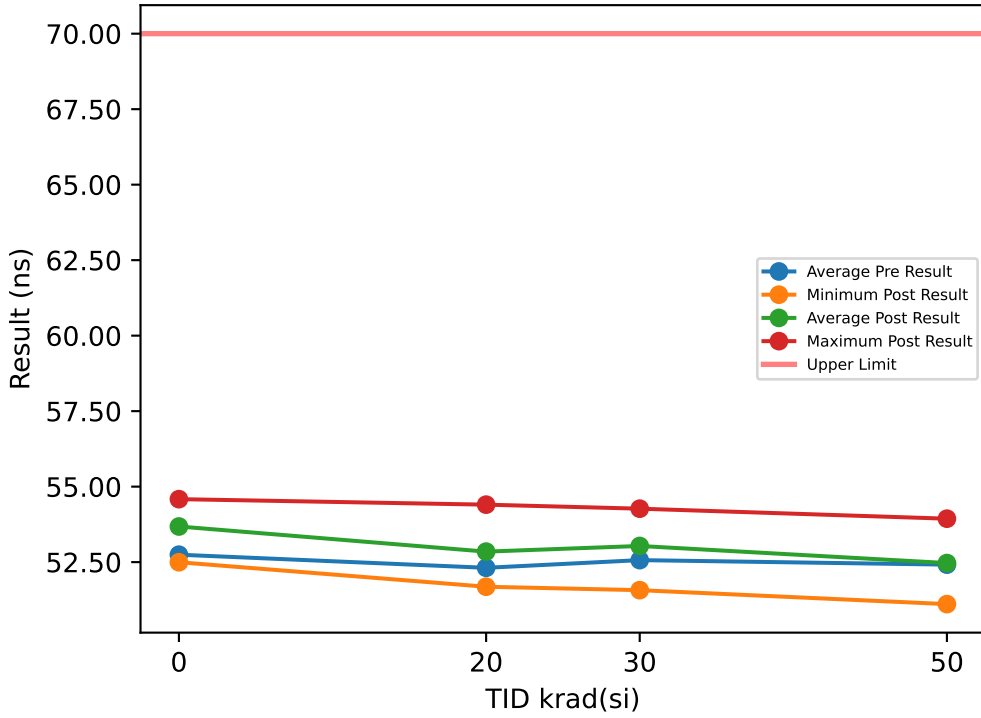


### Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	53.916	54.925	55.448	0.87407	54.592	55.799	56.581	1.0607	-0.856	0.87417	2.3087	1.6029
20	53.35	54.493	55.737	0.8619	53.588	54.959	56.461	1.0321	0.1772	0.4661	0.724	0.20362
30	53.335	54.828	55.759	0.76841	53.334	55.141	56.369	0.88447	-0.0008	0.3128	0.6095	0.15964
50	53.128	54.688	55.804	0.92626	52.989	54.608	55.871	1.0101	-0.2664	-0.08004	0.2981	0.17592

# Device Test: 26.7 TIMING|EXT/OUT/14/14/0/0/5/500kHz//@T\_OFF\_EXTENDER

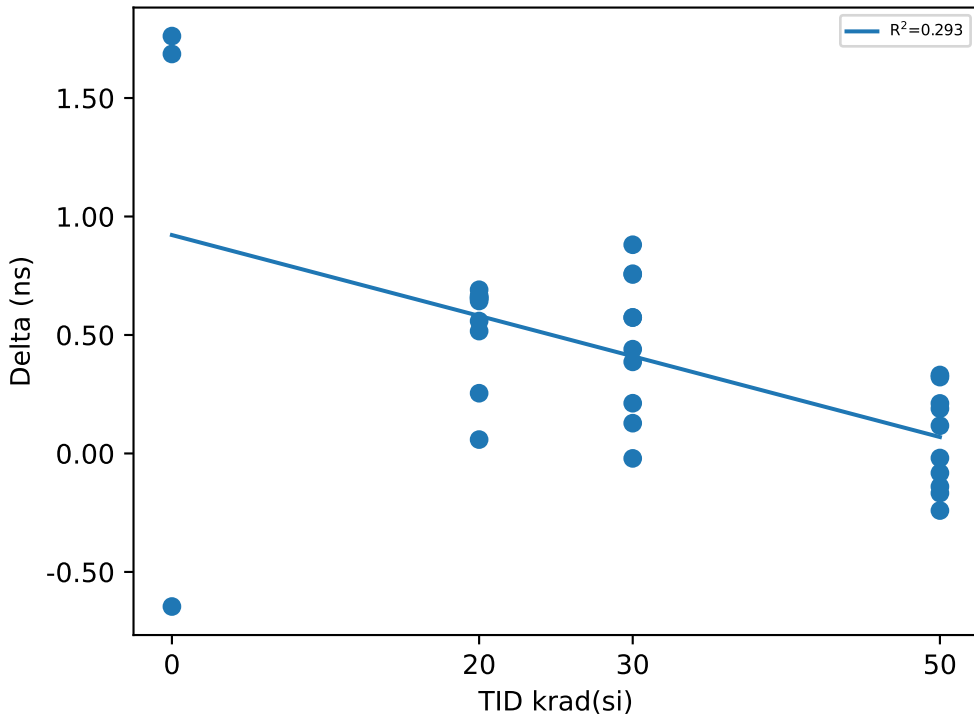
### TID vs Result Stats



### Test Results (Upper Limit = 70.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	51.627	51.685	0.0586
22	20	HDR BIAS	53.057	53.723	0.6665
23	20	HDR BIAS	52.169	52.825	0.6561
24	20	HDR BIAS	51.455	52.013	0.5588
25	20	HDR BIAS	53.114	53.757	0.6435
26	20	HDR UNBIAS	52.405	53.096	0.6909
27	20	HDR UNBIAS	51.445	51.961	0.5164
28	20	HDR UNBIAS	53.751	54.403	0.6526
29	20	HDR UNBIAS	51.831	52.491	0.6594
30	20	HDR UNBIAS	52.269	52.523	0.2542
31	30	HDR BIAS	53.097	53.538	0.4401
32	30	HDR BIAS	51.709	52.589	0.8808
33	30	HDR BIAS	52.518	52.73	0.212
34	30	HDR BIAS	53.697	54.27	0.5733
35	30	HDR BIAS	52.469	52.855	0.3865
36	30	HDR UNBIAS	52.15	52.278	0.1278
37	30	HDR UNBIAS	52.579	53.334	0.7552
38	30	HDR UNBIAS	52.401	53.159	0.7585
39	30	HDR UNBIAS	51.592	51.572	-0.0208
40	30	HDR UNBIAS	53.45	54.024	0.5743
41	50	HDR BIAS	52.698	52.615	-0.0823
42	50	HDR BIAS	51.585	51.796	0.2112
43	50	HDR BIAS	53.749	53.938	0.1893
44	50	HDR BIAS	51.576	51.436	-0.1398
45	50	HDR BIAS	51.925	51.684	-0.2409
46	50	HDR UNBIAS	53.018	52.998	-0.0192
47	50	HDR UNBIAS	53.139	53.461	0.3222
48	50	HDR UNBIAS	51.277	51.109	-0.1674
49	50	HDR UNBIAS	52.923	53.04	0.1172
50	50	HDR UNBIAS	52.283	52.614	0.3312
71	0	CORRELATION	52.899	54.585	1.6859
72	0	CORRELATION	52.197	53.958	1.7614
73	0	CORRELATION	53.142	52.496	-0.6459

### TID vs Post - Pre Exposure Delta

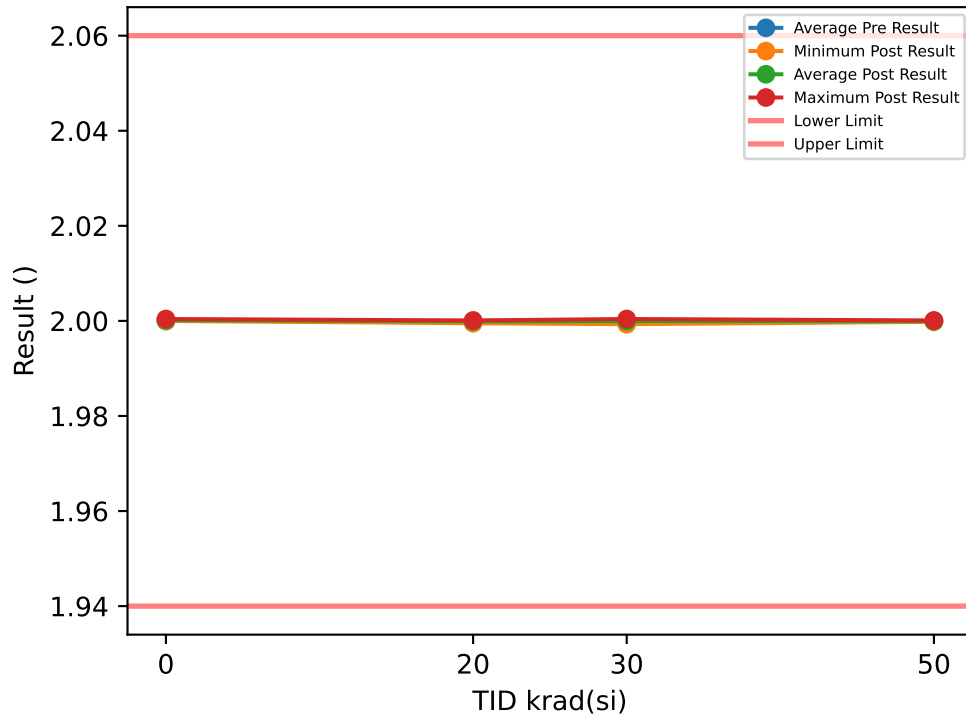


### Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	52.197	52.746	53.142	0.49089	52.496	53.68	54.585	1.072	-0.6459	0.9338	1.7614	1.3686
20	51.445	52.312	53.751	0.78075	51.685	52.848	54.403	0.89081	0.0586	0.5357	0.6909	0.21188
30	51.592	52.566	53.697	0.68619	51.572	53.035	54.27	0.80965	-0.0208	0.46877	0.8808	0.29576
50	51.277	52.417	53.749	0.81318	51.109	52.469	53.938	0.92959	-0.2409	0.05215	0.3312	0.20903

Device Test: 28.1 LEVEL|RATIO/CS/4.5/4.5/0/0/4.5/500kHz//@C\_CS\_R

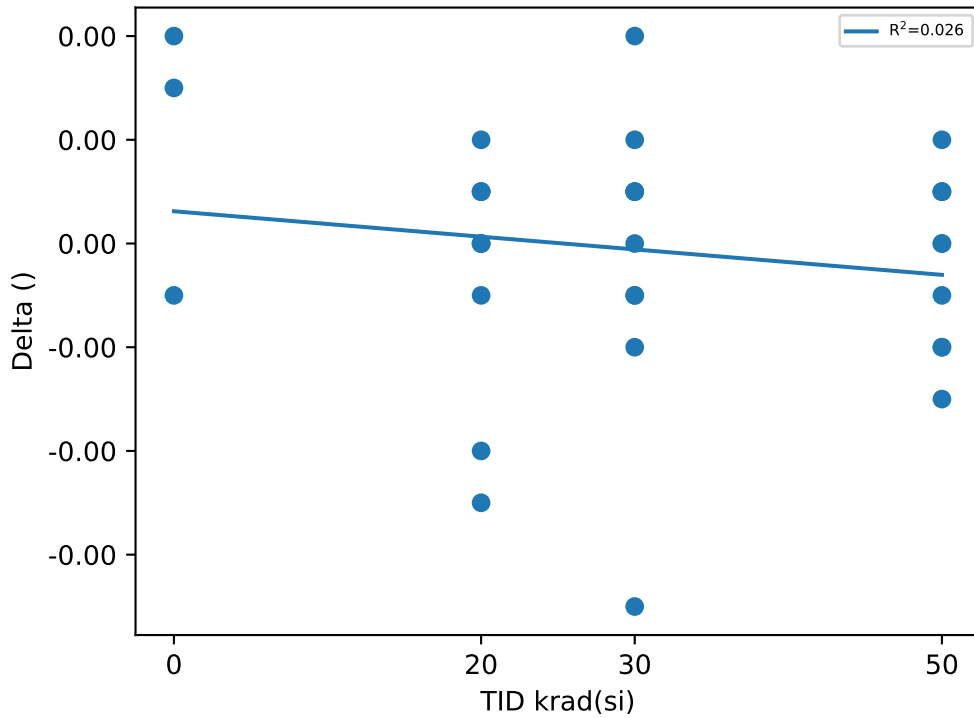
TID vs Result Stats



Test Results (Lower Limit = 1.94, Upper Limit = 2.06 (°))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2	2	0
22	20	HDR BIAS	2	2	0
23	20	HDR BIAS	1.9998	2	0.0002
24	20	HDR BIAS	2.0001	2.0001	0
25	20	HDR BIAS	2	1.9999	-0.0001
26	20	HDR UNBIAS	1.9999	1.9995	-0.0004
27	20	HDR UNBIAS	1.9999	2	0.0001
28	20	HDR UNBIAS	1.9999	2	0.0001
29	20	HDR UNBIAS	2	1.9995	-0.0005
30	20	HDR UNBIAS	1.9999	2	0.0001
31	30	HDR BIAS	1.9999	2	0.0001
32	30	HDR BIAS	2	1.9993	-0.0007
33	30	HDR BIAS	2	1.9998	-0.0002
34	30	HDR BIAS	1.9998	2	0.0002
35	30	HDR BIAS	2	2.0004	0.0004
36	30	HDR UNBIAS	1.9999	1.9998	-0.0001
37	30	HDR UNBIAS	2	2.0001	0.0001
38	30	HDR UNBIAS	2.0001	2	-0.0001
39	30	HDR UNBIAS	2.0001	2.0001	0
40	30	HDR UNBIAS	1.9999	2	0.0001
41	50	HDR BIAS	1.9998	2	0.0002
42	50	HDR BIAS	2	1.9999	-0.0001
43	50	HDR BIAS	2	2.0001	0.0001
44	50	HDR BIAS	2	1.9998	-0.0002
45	50	HDR BIAS	2.0001	1.9998	-0.0003
46	50	HDR UNBIAS	2	1.9998	-0.0002
47	50	HDR UNBIAS	2	2.0001	0.0001
48	50	HDR UNBIAS	1.9998	1.9999	0.0001
49	50	HDR UNBIAS	2	2	0
50	50	HDR UNBIAS	2	2	0
71	0	CORRELATION	2.0001	2	-0.0001
72	0	CORRELATION	1.9998	2.0001	0.0003
73	0	CORRELATION	2	2.0004	0.0004

TID vs Post - Pre Exposure Delta

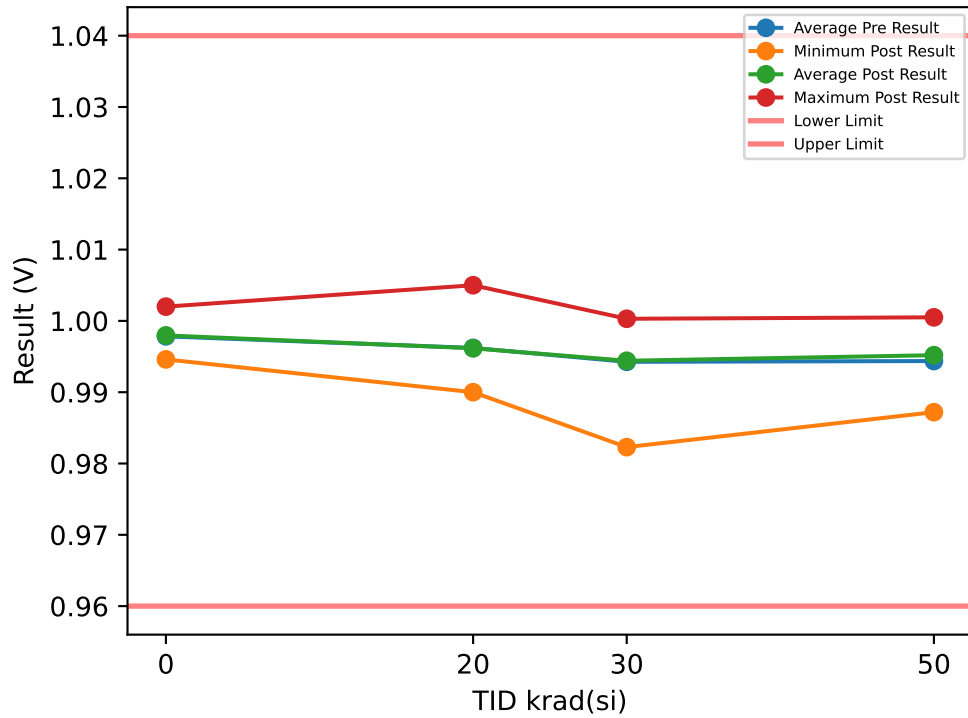


Test Statistics (°)

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	1.9998	2	2.0001	0.00015275	2	2.0002	2.0004	0.00020817	-0.0001	0.0002	0.0004	0.00026458
20	1.9998	2	2.0001	8.4984e-05	1.9995	1.9999	2.0001	0.00021602	-0.0005	-5e-05	0.0002	0.0002273
30	1.9998	2	2.0001	9.4868e-05	1.9993	2	2.0004	0.00028382	-0.0007	-2e-05	0.0004	0.00029364
50	1.9998	2	2.0001	9.4868e-05	1.9998	1.9999	2.0001	0.00011738	-0.0003	-3e-05	0.0002	0.00016364



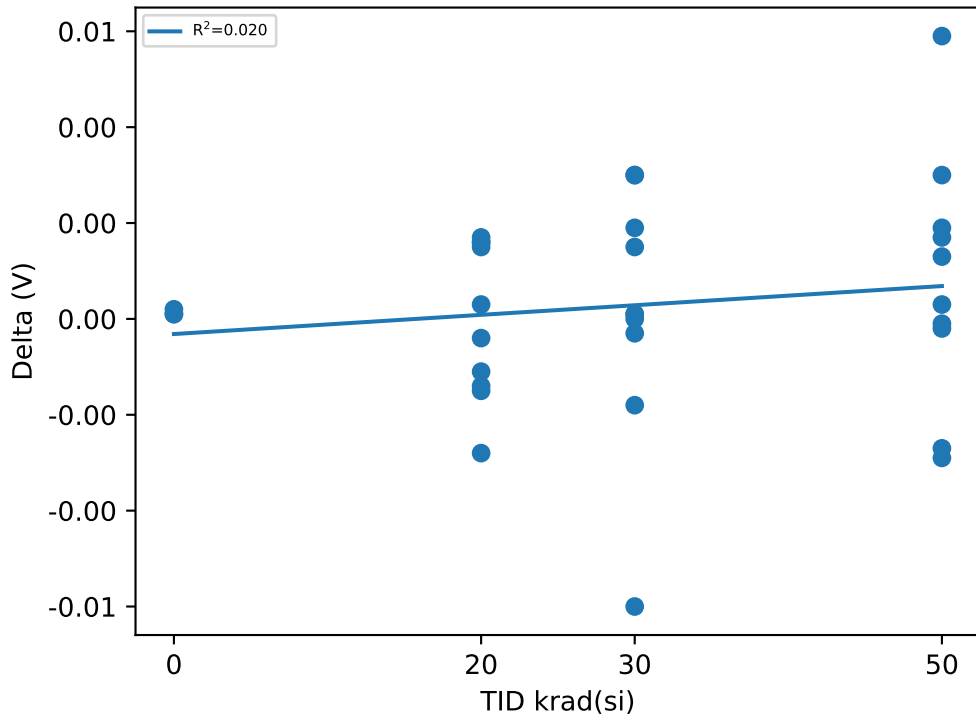
TID vs Result Stats



Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9929	0.9945	0.0016
22	20	HDR BIAS	0.9883	0.99	0.0017
23	20	HDR BIAS	0.9974	0.9963	-0.0011
24	20	HDR BIAS	1.002	1.0005	-0.0015
25	20	HDR BIAS	0.9913	0.9916	0.0003
26	20	HDR UNBIAS	1.0004	0.999	-0.0014
27	20	HDR UNBIAS	1.0034	1.005	0.0016
28	20	HDR UNBIAS	1.0006	1.0002	-0.0004
29	20	HDR UNBIAS	0.9928	0.99	-0.0028
30	20	HDR UNBIAS	0.993	0.9945	0.0015
31	30	HDR BIAS	1.0005	1.0002	-0.0003
32	30	HDR BIAS	0.993	0.993	0
33	30	HDR BIAS	0.9928	0.9943	0.0015
34	30	HDR BIAS	0.9973	1.0003	0.003
35	30	HDR BIAS	0.99	0.993	0.003
36	30	HDR UNBIAS	0.9822	0.9823	0.0001
37	30	HDR UNBIAS	0.9959	0.996	0.0001
38	30	HDR UNBIAS	0.9959	0.9978	0.0019
39	30	HDR UNBIAS	1.0005	0.9945	-0.006
40	30	HDR UNBIAS	0.9945	0.9927	-0.0018
41	50	HDR BIAS	0.9899	0.9872	-0.0027
42	50	HDR BIAS	0.9883	0.9886	0.0003
43	50	HDR BIAS	0.9914	0.9927	0.0013
44	50	HDR BIAS	0.9974	0.9991	0.0017
45	50	HDR BIAS	0.9958	0.9988	0.003
46	50	HDR UNBIAS	0.9868	0.9927	0.0059
47	50	HDR UNBIAS	0.999	0.9989	-0.0001
48	50	HDR UNBIAS	0.9945	0.9943	-0.0002
49	50	HDR UNBIAS	0.9972	0.9991	0.0019
50	50	HDR UNBIAS	1.0034	1.0005	-0.0029
71	0	CORRELATION	1.0018	1.002	0.0002
72	0	CORRELATION	0.9945	0.9946	0.0001
73	0	CORRELATION	0.9972	0.9973	0.0001

TID vs Post - Pre Exposure Delta

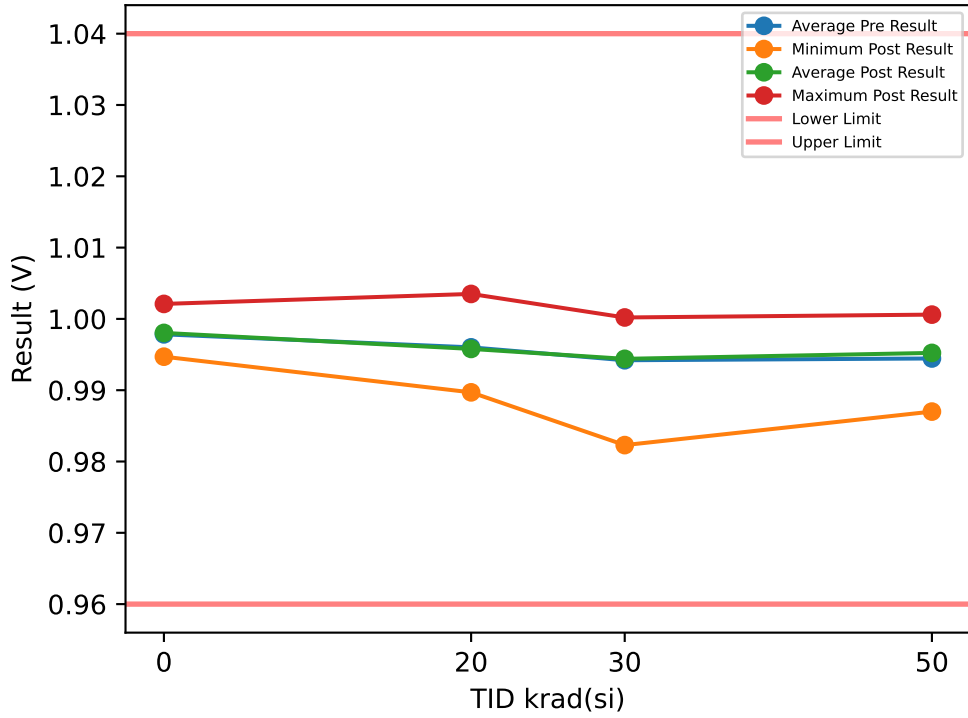


Test Statistics (V)

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	0.9945	0.99783	1.0018	0.003691	0.9946	0.99797	1.002	0.0037448	0.0001	0.00013333	0.0002	5.7735e-05
20	0.9883	0.99621	1.0034	0.0051965	0.99	0.99616	1.005	0.0049842	-0.0028	-5e-05	0.0017	0.0016243
30	0.9822	0.99426	1.0005	0.0053734	0.9823	0.99441	1.0003	0.0051187	-0.006	0.00015	0.003	0.0026454
50	0.9868	0.99437	1.0034	0.0052194	0.9872	0.99519	1.0005	0.0047846	-0.0029	0.00082	0.0059	0.0026059

Device Test: 28.11 VOLTAGE|OC/CS/12/12/0/0/5/100kHz//@V\_CS\_ILIM\_OC

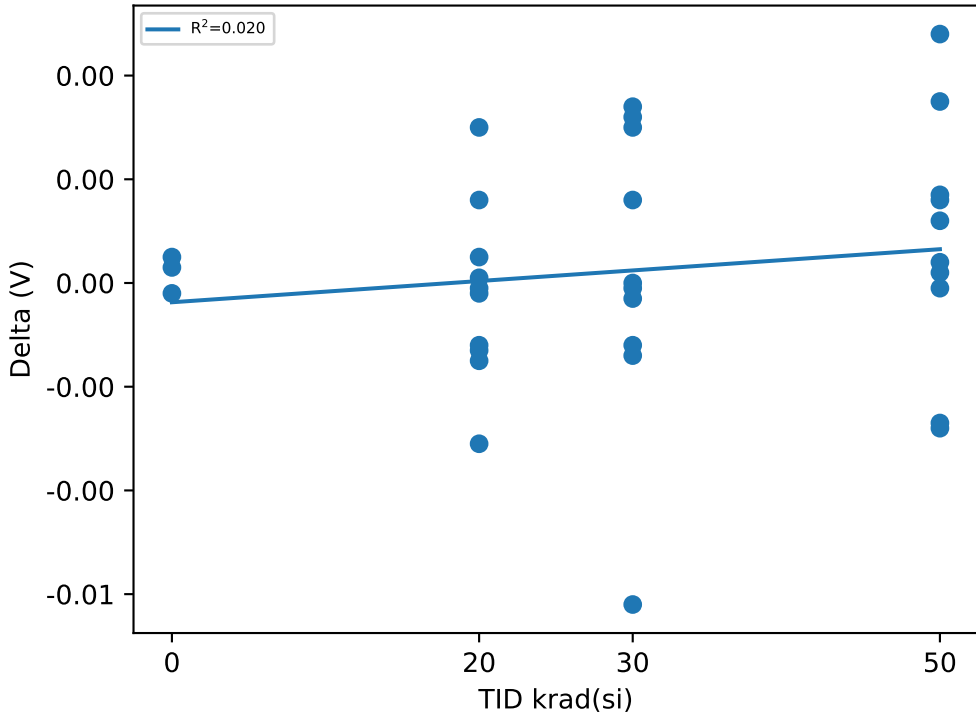
TID vs Result Stats



Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9929	0.9945	0.0016
22	20	HDR BIAS	0.9867	0.9897	0.003
23	20	HDR BIAS	0.9974	0.9959	-0.0015
24	20	HDR BIAS	1.0018	1.0005	-0.0013
25	20	HDR BIAS	0.9914	0.9913	-0.0001
26	20	HDR UNBIAS	1.0006	0.9975	-0.0031
27	20	HDR UNBIAS	1.0034	1.0035	0.0001
28	20	HDR UNBIAS	1.0016	1.0021	0.0005
29	20	HDR UNBIAS	0.9913	0.9901	-0.0012
30	20	HDR UNBIAS	0.993	0.9928	-0.0002
31	30	HDR BIAS	1.0005	1.0002	-0.0003
32	30	HDR BIAS	0.9944	0.993	-0.0014
33	30	HDR BIAS	0.9911	0.9945	0.0034
34	30	HDR BIAS	0.9972	1.0002	0.003
35	30	HDR BIAS	0.9899	0.9931	0.0032
36	30	HDR UNBIAS	0.9823	0.9823	0
37	30	HDR UNBIAS	0.9959	0.9958	-0.0001
38	30	HDR UNBIAS	0.9959	0.9975	0.0016
39	30	HDR UNBIAS	1.0005	0.9943	-0.0062
40	30	HDR UNBIAS	0.9943	0.9931	-0.0012
41	50	HDR BIAS	0.9897	0.987	-0.0027
42	50	HDR BIAS	0.9884	0.9883	-0.0001
43	50	HDR BIAS	0.9927	0.9931	0.0004
44	50	HDR BIAS	0.9974	0.999	0.0016
45	50	HDR BIAS	0.9955	0.999	0.0035
46	50	HDR UNBIAS	0.9868	0.9916	0.0048
47	50	HDR UNBIAS	0.9988	1.0005	0.0017
48	50	HDR UNBIAS	0.9943	0.9945	0.0002
49	50	HDR UNBIAS	0.9975	0.9987	0.0012
50	50	HDR UNBIAS	1.0034	1.0006	-0.0028
71	0	CORRELATION	1.0016	1.0021	0.0005
72	0	CORRELATION	0.9944	0.9947	0.0003
73	0	CORRELATION	0.9975	0.9973	-0.0002

TID vs Post - Pre Exposure Delta

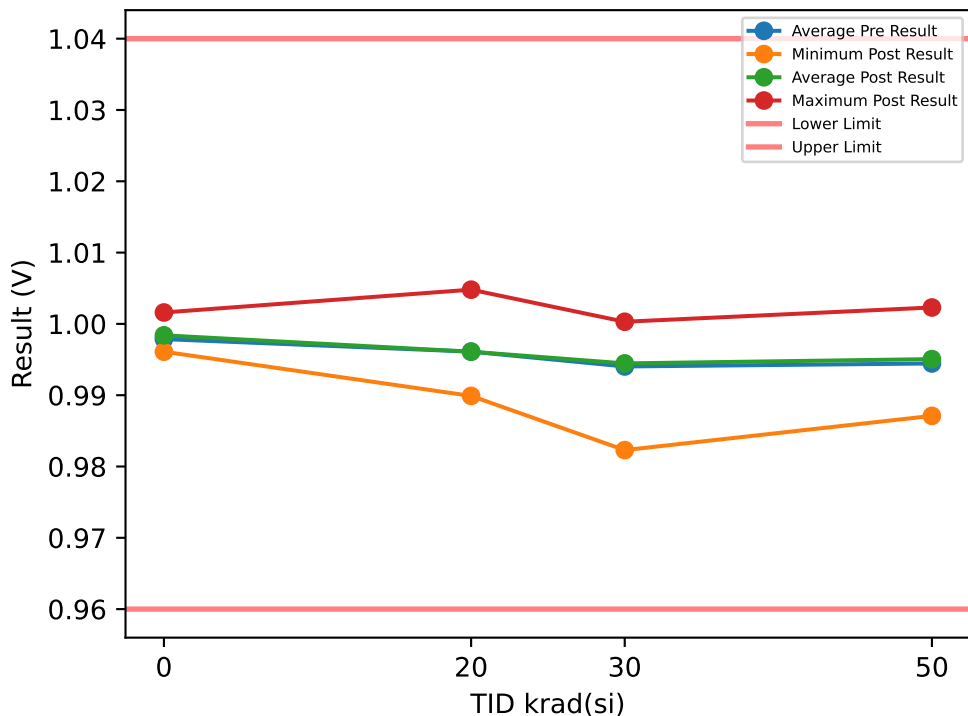


Test Statistics (V)

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	0.9944	0.99783	1.0016	0.0036116	0.9947	0.99803	1.0021	0.0037541	-0.0002	0.0002	0.0005	0.00036056
20	0.9867	0.99601	1.0034	0.0056885	0.9897	0.99579	1.0035	0.0049957	-0.0031	-0.00022	0.003	0.0017119
30	0.9823	0.9942	1.0005	0.0054152	0.9823	0.9944	1.0002	0.0050621	-0.0062	0.0002	0.0034	0.0028848
50	0.9868	0.99445	1.0034	0.0051522	0.987	0.99523	1.0006	0.0050671	-0.0028	0.00078	0.0048	0.0023906

Device Test: 28.12 VOLTAGE|OC/CS/14/14/0/0/5/100kHz//@V\_CS\_ILIM\_OC

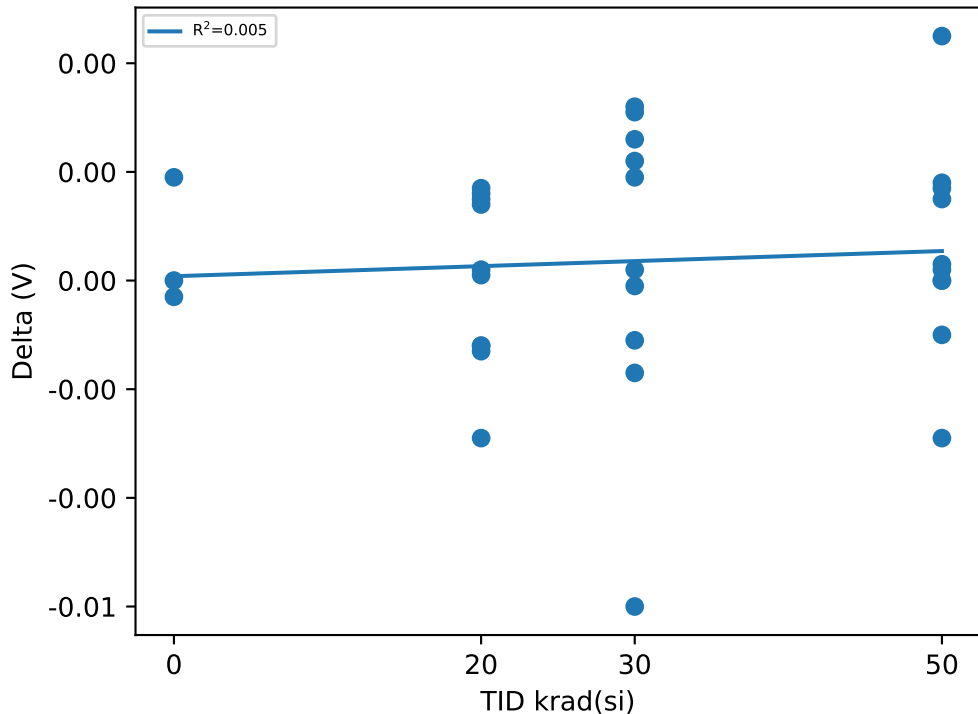
TID vs Result Stats



Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9928	0.9945	0.0017
22	20	HDR BIAS	0.9885	0.99	0.0015
23	20	HDR BIAS	0.9973	0.9961	-0.0012
24	20	HDR BIAS	1.0017	1.0005	-0.0012
25	20	HDR BIAS	0.9912	0.9913	0.0001
26	20	HDR UNBIAS	1.0003	0.999	-0.0013
27	20	HDR UNBIAS	1.0032	1.0048	0.0016
28	20	HDR UNBIAS	1.0004	1.0018	0.0014
29	20	HDR UNBIAS	0.9928	0.9899	-0.0029
30	20	HDR UNBIAS	0.9929	0.9931	0.0002
31	30	HDR BIAS	1.0004	0.9987	-0.0017
32	30	HDR BIAS	0.9928	0.993	0.0002
33	30	HDR BIAS	0.9913	0.9945	0.0032
34	30	HDR BIAS	0.9977	1.0003	0.0026
35	30	HDR BIAS	0.9898	0.9929	0.0031
36	30	HDR UNBIAS	0.9824	0.9823	-0.0001
37	30	HDR UNBIAS	0.9957	0.9976	0.0019
38	30	HDR UNBIAS	0.9956	0.9978	0.0022
39	30	HDR UNBIAS	1.0003	0.9943	-0.006
40	30	HDR UNBIAS	0.9943	0.9932	-0.0011
41	50	HDR BIAS	0.99	0.9871	-0.0029
42	50	HDR BIAS	0.9883	0.9883	0
43	50	HDR BIAS	0.9928	0.9928	0
44	50	HDR BIAS	0.9974	0.9991	0.0017
45	50	HDR BIAS	0.9955	0.9973	0.0018
46	50	HDR UNBIAS	0.9868	0.9913	0.0045
47	50	HDR UNBIAS	0.9988	0.9991	0.0003
48	50	HDR UNBIAS	0.9943	0.9945	0.0002
49	50	HDR UNBIAS	0.9973	0.9988	0.0015
50	50	HDR UNBIAS	1.0033	1.0023	-0.001
71	0	CORRELATION	1.0019	1.0016	-0.0003
72	0	CORRELATION	0.9942	0.9961	0.0019
73	0	CORRELATION	0.9975	0.9975	0

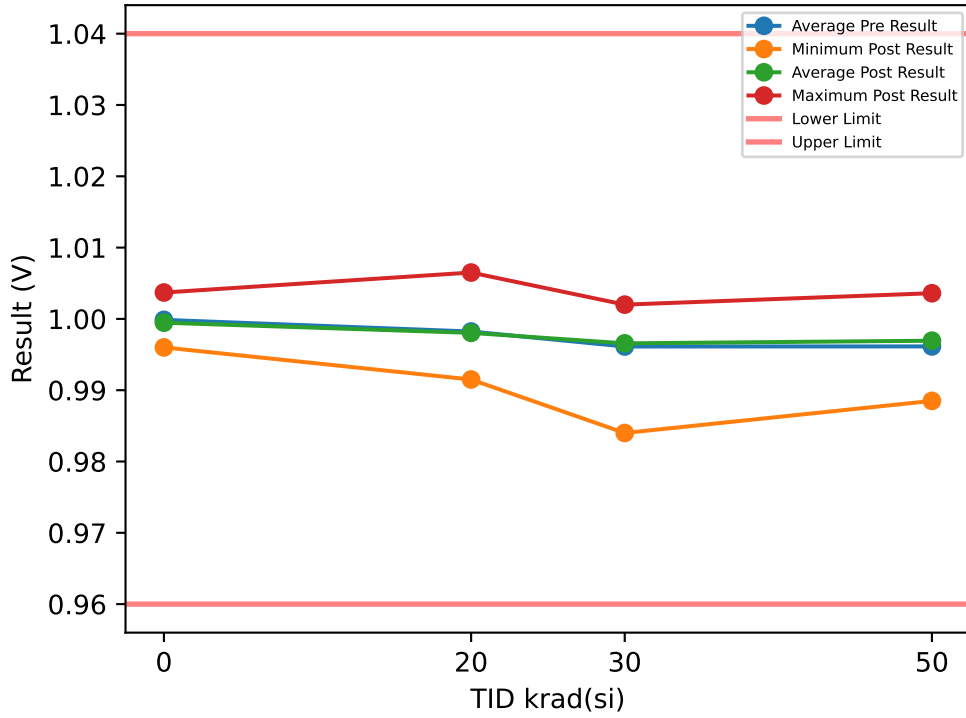
TID vs Post - Pre Exposure Delta



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	0.9942	0.99787	1.0019	0.0038631	0.9961	0.9984	1.0016	0.0028583	-0.0003	0.00053333	0.0019	0.001193
20	0.9885	0.99611	1.0032	0.0050895	0.9899	0.9961	1.0048	0.0052303	-0.0029	-1e-05	0.0017	0.0015878
30	0.9824	0.99403	1.0004	0.0053831	0.9823	0.99446	1.0003	0.0050238	-0.006	0.00043	0.0032	0.002855
50	0.9868	0.99445	1.0033	0.0050997	0.9871	0.99506	1.0023	0.0050847	-0.0029	0.00061	0.0045	0.0019564

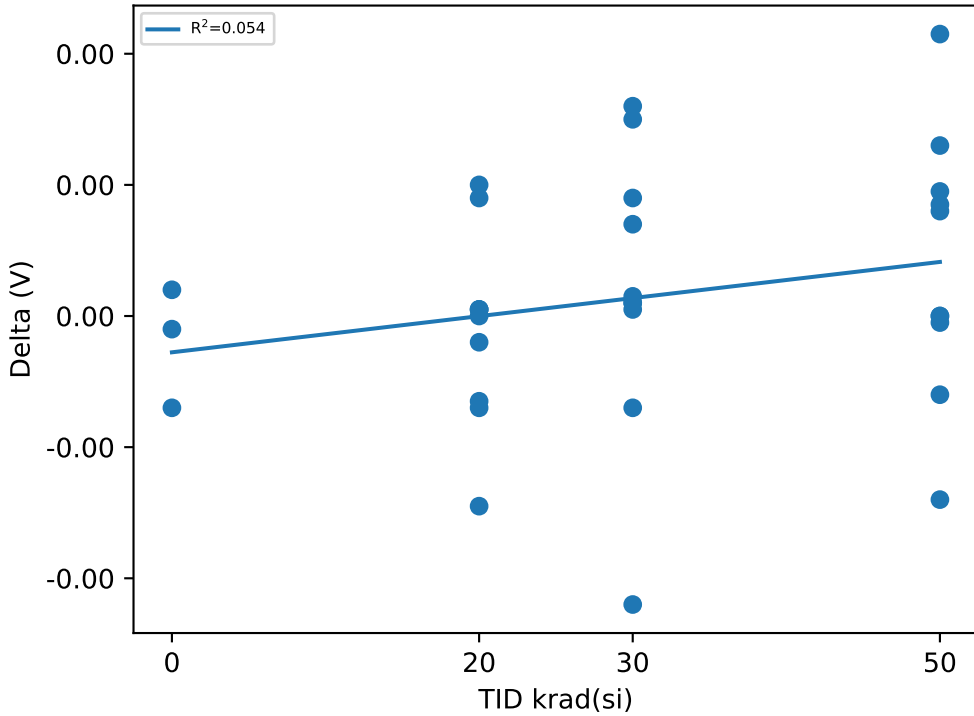
TID vs Result Stats



Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9958	0.9976	0.0018
22	20	HDR BIAS	0.9897	0.9917	0.002
23	20	HDR BIAS	0.9989	0.999	0.0001
24	20	HDR BIAS	1.0034	1.002	-0.0014
25	20	HDR BIAS	0.9945	0.9941	-0.0004
26	20	HDR UNBIAS	1.0018	1.0005	-0.0013
27	20	HDR UNBIAS	1.0064	1.0065	0.0001
28	20	HDR UNBIAS	1.0016	1.0017	0.0001
29	20	HDR UNBIAS	0.9944	0.9915	-0.0029
30	20	HDR UNBIAS	0.9958	0.9958	0
31	30	HDR BIAS	1.0018	1.002	0.0002
32	30	HDR BIAS	0.9959	0.996	0.0001
33	30	HDR BIAS	0.9942	0.996	0.0018
34	30	HDR BIAS	1.0003	1.0017	0.0014
35	30	HDR BIAS	0.9914	0.9946	0.0032
36	30	HDR UNBIAS	0.9854	0.984	-0.0014
37	30	HDR UNBIAS	0.9974	0.9976	0.0002
38	30	HDR UNBIAS	0.9975	1.0005	0.003
39	30	HDR UNBIAS	1.0017	0.9973	-0.0044
40	30	HDR UNBIAS	0.9957	0.996	0.0003
41	50	HDR BIAS	0.9913	0.9885	-0.0028
42	50	HDR BIAS	0.9898	0.9915	0.0017
43	50	HDR BIAS	0.9942	0.9941	-0.0001
44	50	HDR BIAS	0.999	0.999	0
45	50	HDR BIAS	0.9987	1.0003	0.0016
46	50	HDR UNBIAS	0.9885	0.9928	0.0043
47	50	HDR UNBIAS	1.0004	1.0004	0
48	50	HDR UNBIAS	0.9957	0.9976	0.0019
49	50	HDR UNBIAS	0.999	1.0016	0.0026
50	50	HDR UNBIAS	1.0048	1.0036	-0.0012
71	0	CORRELATION	1.0033	1.0037	0.0004
72	0	CORRELATION	0.9974	0.996	-0.0014
73	0	CORRELATION	0.9989	0.9987	-0.0002

TID vs Post - Pre Exposure Delta

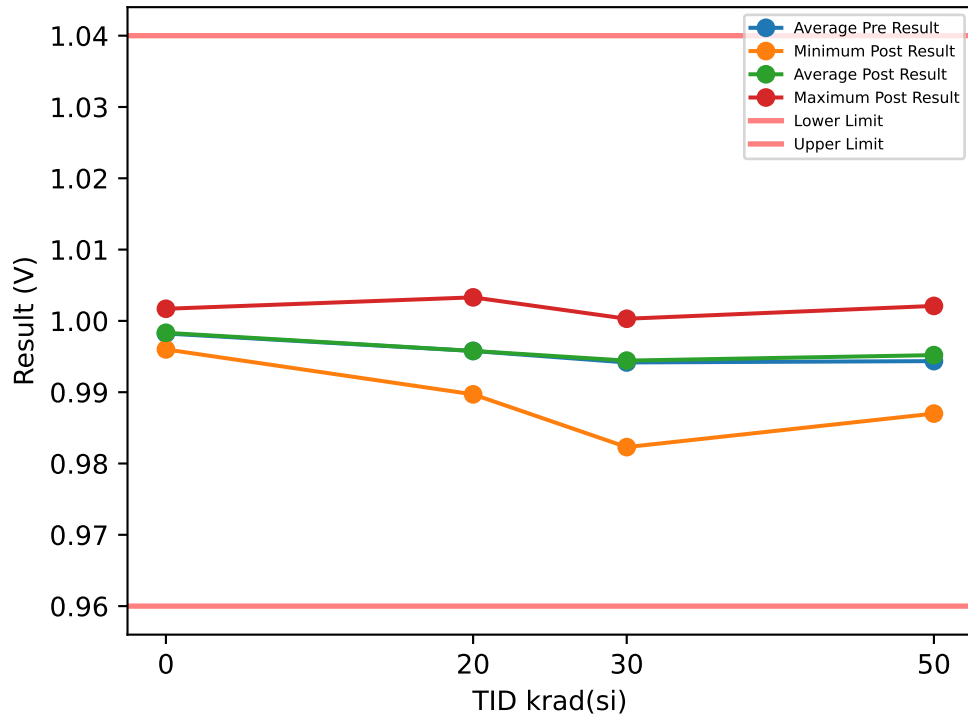


Test Statistics (V)

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	0.9974	0.99987	1.0033	0.0030665	0.996	0.99947	1.0037	0.0039068	-0.0014	-0.0004	0.0004	0.00091652
20	0.9897	0.99823	1.0064	0.0050682	0.9915	0.99804	1.0065	0.0048457	-0.0029	-0.00019	0.002	0.0014579
30	0.9854	0.99613	1.0018	0.0050058	0.984	0.99657	1.002	0.0051175	-0.0044	0.00044	0.0032	0.0022112
50	0.9885	0.99614	1.0048	0.0051855	0.9885	0.99694	1.0036	0.0049446	-0.0028	0.0008	0.0043	0.0020331

# Device Test: 28.14 VOLTAGE|OC/CS/5/5/0/0/5/500kHz//@V\_CS\_ILIM\_OC

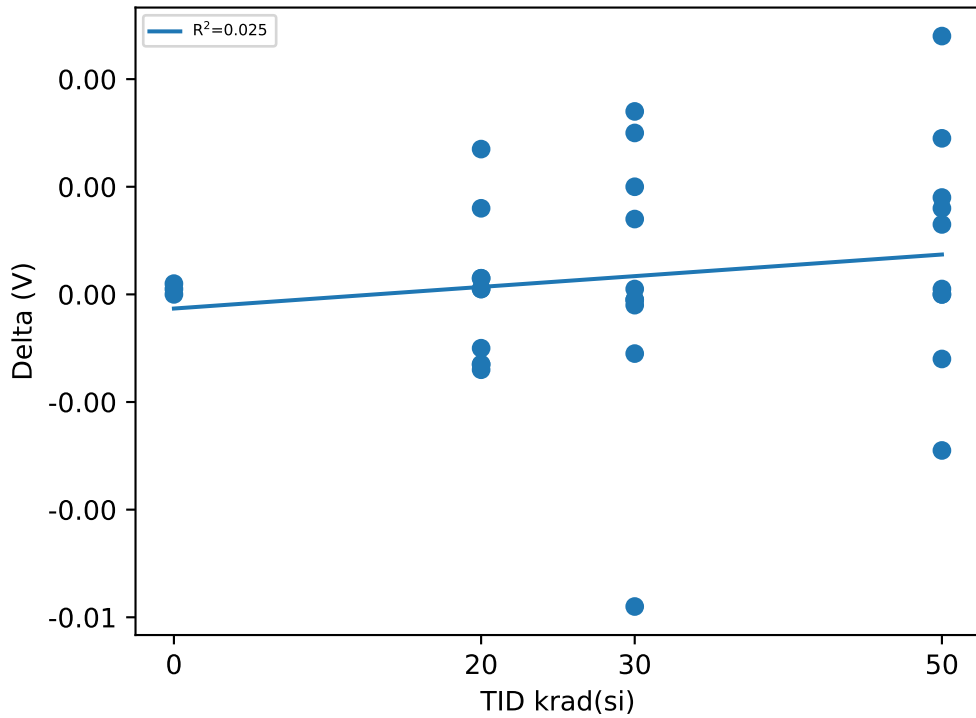
### TID vs Result Stats



### Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9929	0.9945	0.0016
22	20	HDR BIAS	0.987	0.9897	0.0027
23	20	HDR BIAS	0.9973	0.996	-0.0013
24	20	HDR BIAS	1.0015	1.0005	-0.001
25	20	HDR BIAS	0.9912	0.9915	0.0003
26	20	HDR UNBIAS	1.0004	0.999	-0.0014
27	20	HDR UNBIAS	1.0032	1.0033	0.0001
28	20	HDR UNBIAS	1.0003	1.0006	0.0003
29	20	HDR UNBIAS	0.9913	0.99	-0.0013
30	20	HDR UNBIAS	0.9927	0.9928	0.0001
31	30	HDR BIAS	1.0004	1.0003	-0.0001
32	30	HDR BIAS	0.9929	0.993	0.0001
33	30	HDR BIAS	0.9929	0.9943	0.0014
34	30	HDR BIAS	0.9972	1.0002	0.003
35	30	HDR BIAS	0.9897	0.9931	0.0034
36	30	HDR UNBIAS	0.9824	0.9823	-0.0001
37	30	HDR UNBIAS	0.9959	0.9957	-0.0002
38	30	HDR UNBIAS	0.9958	0.9978	0.002
39	30	HDR UNBIAS	1.0003	0.9945	-0.0058
40	30	HDR UNBIAS	0.9942	0.9931	-0.0011
41	50	HDR BIAS	0.9899	0.987	-0.0029
42	50	HDR BIAS	0.9883	0.9883	0
43	50	HDR BIAS	0.9914	0.9927	0.0013
44	50	HDR BIAS	0.9975	0.9975	0
45	50	HDR BIAS	0.9958	0.9987	0.0029
46	50	HDR UNBIAS	0.9868	0.9916	0.0048
47	50	HDR UNBIAS	0.9989	1.0005	0.0016
48	50	HDR UNBIAS	0.9944	0.9945	0.0001
49	50	HDR UNBIAS	0.9973	0.9991	0.0018
50	50	HDR UNBIAS	1.0033	1.0021	-0.0012
71	0	CORRELATION	1.0016	1.0017	0.0001
72	0	CORRELATION	0.9958	0.996	0.0002
73	0	CORRELATION	0.9973	0.9973	0

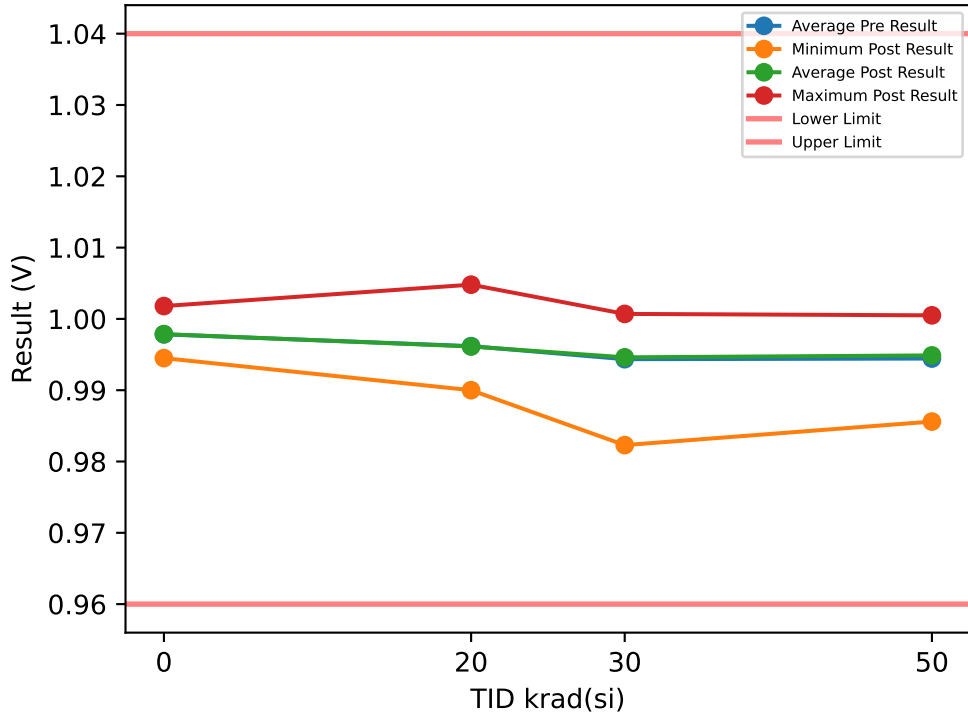
### TID vs Post - Pre Exposure Delta



### 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	0.9958	0.99823	1.0016	0.0030105	0.996	0.99833	1.0017	0.0029872	0	0.0001	0.0002	0.0001
20	0.987	0.99578	1.0032	0.0054546	0.9897	0.99579	1.0033	0.0048498	-0.0014	1e-05	0.0027	0.0013494
30	0.9824	0.99417	1.0004	0.0053016	0.9823	0.99443	1.0003	0.0050931	-0.0058	0.00026	0.0034	0.0025984
50	0.9868	0.99436	1.0033	0.005203	0.987	0.9952	1.0021	0.0051962	-0.0029	0.00084	0.0048	0.0021537

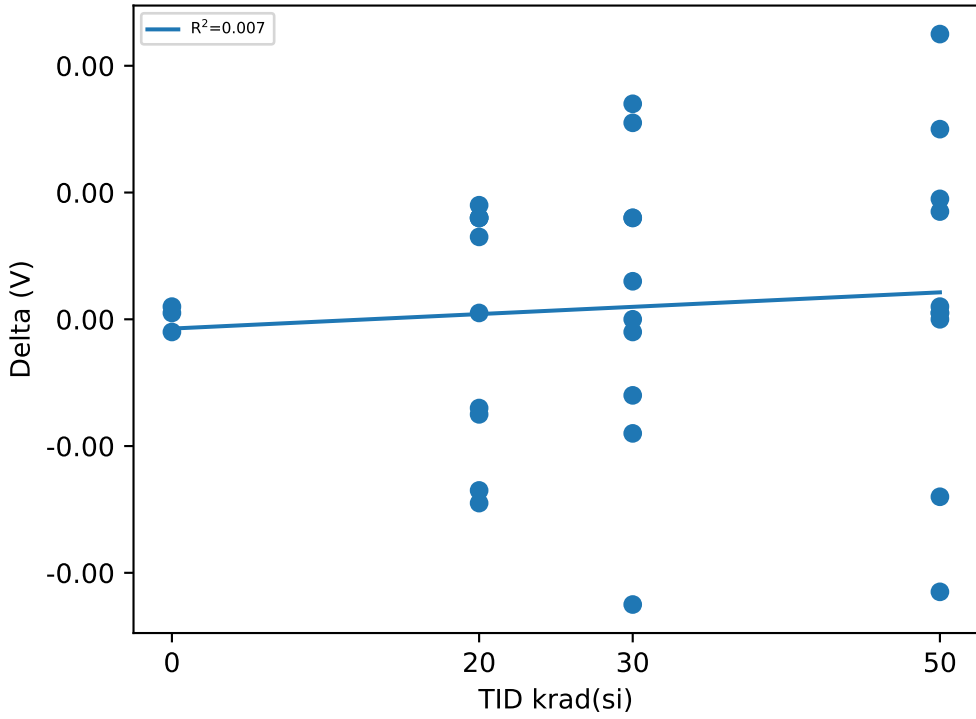
TID vs Result Stats



Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.993	0.9943	0.0013
22	20	HDR BIAS	0.9882	0.99	0.0018
23	20	HDR BIAS	0.9975	0.9961	-0.0014
24	20	HDR BIAS	1.002	1.0005	-0.0015
25	20	HDR BIAS	0.9912	0.9913	0.0001
26	20	HDR UNBIAS	1.0003	0.9976	-0.0027
27	20	HDR UNBIAS	1.0032	1.0048	0.0016
28	20	HDR UNBIAS	1.0005	1.0021	0.0016
29	20	HDR UNBIAS	0.9929	0.99	-0.0029
30	20	HDR UNBIAS	0.993	0.9946	0.0016
31	30	HDR BIAS	1.0001	1.0007	0.0006
32	30	HDR BIAS	0.9943	0.9931	-0.0012
33	30	HDR BIAS	0.993	0.9946	0.0016
34	30	HDR BIAS	0.9972	1.0006	0.0034
35	30	HDR BIAS	0.9898	0.9929	0.0031
36	30	HDR UNBIAS	0.9823	0.9823	0
37	30	HDR UNBIAS	0.996	0.9958	-0.0002
38	30	HDR UNBIAS	0.9959	0.9975	0.0016
39	30	HDR UNBIAS	1.0005	0.996	-0.0045
40	30	HDR UNBIAS	0.9944	0.9926	-0.0018
41	50	HDR BIAS	0.9899	0.9856	-0.0043
42	50	HDR BIAS	0.9883	0.9883	0
43	50	HDR BIAS	0.9928	0.993	0.0002
44	50	HDR BIAS	0.9974	0.9975	0.0001
45	50	HDR BIAS	0.9958	0.9988	0.003
46	50	HDR UNBIAS	0.9868	0.9913	0.0045
47	50	HDR UNBIAS	0.9986	1.0005	0.0019
48	50	HDR UNBIAS	0.9942	0.9943	0.0001
49	50	HDR UNBIAS	0.9973	0.999	0.0017
50	50	HDR UNBIAS	1.0033	1.0005	-0.0028
71	0	CORRELATION	1.002	1.0018	-0.0002
72	0	CORRELATION	0.9943	0.9945	0.0002
73	0	CORRELATION	0.9972	0.9973	0.0001

TID vs Post - Pre Exposure Delta



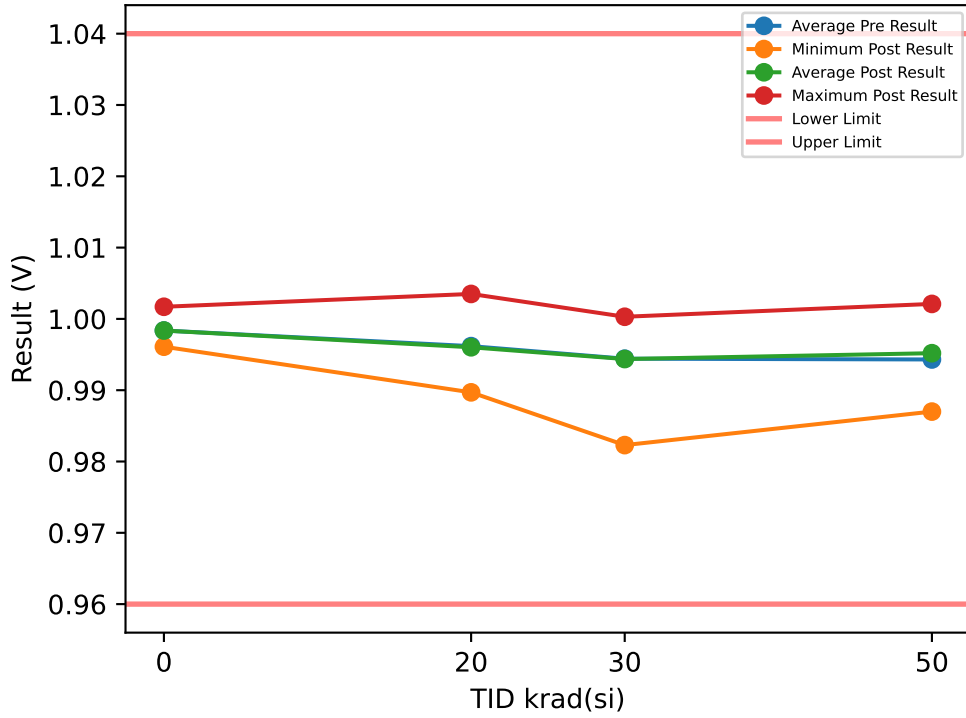
Test Statistics (V)

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	0.9943	0.99783	1.002	0.0038889	0.9945	0.99787	1.0018	0.0036828	-0.0002	3.3333e-05	0.0002	0.00020817
20	0.9882	0.99618	1.0032	0.0051639	0.99	0.99613	1.0048	0.0051234	-0.0029	-5e-05	0.0018	0.0019004
30	0.9823	0.99435	1.0005	0.0052901	0.9823	0.99461	1.0007	0.0052223	-0.0045	0.00026	0.0034	0.0023792
50	0.9868	0.99444	1.0033	0.0050993	0.9856	0.99488	1.0005	0.0052544	-0.0043	0.00044	0.0045	0.0025864



Device Test: 28.16 VOLTAGE|OC/CS/14/14/0/0/5/500kHz//@V\_CS\_ILIM\_OC

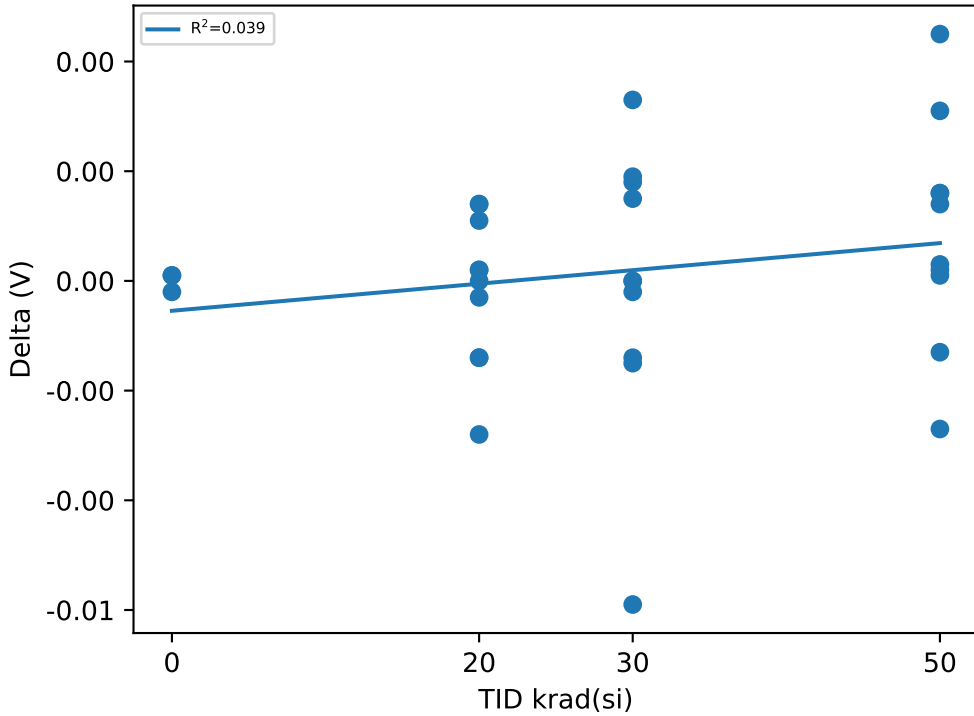
TID vs Result Stats



Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9932	0.9946	0.0014
22	20	HDR BIAS	0.9883	0.9897	0.0014
23	20	HDR BIAS	0.9973	0.9975	0.0002
24	20	HDR BIAS	1.0017	1.0003	-0.0014
25	20	HDR BIAS	0.9913	0.9913	0
26	20	HDR UNBIAS	1.0004	0.999	-0.0014
27	20	HDR UNBIAS	1.0033	1.0035	0.0002
28	20	HDR UNBIAS	1.0005	1.0016	0.0011
29	20	HDR UNBIAS	0.9928	0.99	-0.0028
30	20	HDR UNBIAS	0.993	0.9927	-0.0003
31	30	HDR BIAS	1.0005	1.0003	-0.0002
32	30	HDR BIAS	0.9944	0.993	-0.0014
33	30	HDR BIAS	0.9927	0.9945	0.0018
34	30	HDR BIAS	0.9988	1.0003	0.0015
35	30	HDR BIAS	0.9897	0.993	0.0033
36	30	HDR UNBIAS	0.9823	0.9823	0
37	30	HDR UNBIAS	0.9957	0.9957	0
38	30	HDR UNBIAS	0.9956	0.9975	0.0019
39	30	HDR UNBIAS	1.0002	0.9943	-0.0059
40	30	HDR UNBIAS	0.9943	0.9928	-0.0015
41	50	HDR BIAS	0.9897	0.987	-0.0027
42	50	HDR BIAS	0.9882	0.9885	0.0003
43	50	HDR BIAS	0.9914	0.9928	0.0014
44	50	HDR BIAS	0.9974	0.9976	0.0002
45	50	HDR BIAS	0.9957	0.9988	0.0031
46	50	HDR UNBIAS	0.9867	0.9912	0.0045
47	50	HDR UNBIAS	0.999	0.9991	0.0001
48	50	HDR UNBIAS	0.9944	0.996	0.0016
49	50	HDR UNBIAS	0.9972	0.9988	0.0016
50	50	HDR UNBIAS	1.0034	1.0021	-0.0013
71	0	CORRELATION	1.0019	1.0017	-0.0002
72	0	CORRELATION	0.996	0.9961	0.0001
73	0	CORRELATION	0.9972	0.9973	0.0001

TID vs Post - Pre Exposure Delta



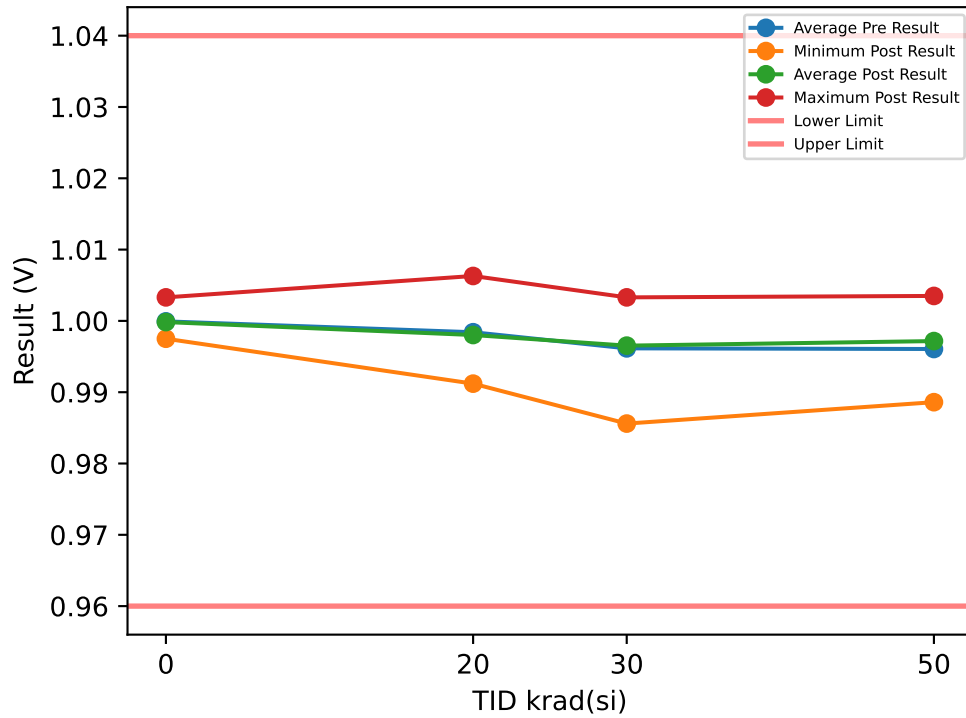
Test Statistics (V)

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	0.996	0.99837	1.0019	0.0031182	0.9961	0.99837	1.0017	0.0029484	-0.0002	0	0.0001	0.00017321
20	0.9883	0.99618	1.0033	0.0051123	0.9897	0.99602	1.0035	0.005033	-0.0028	-0.00016	0.0014	0.0013664
30	0.9823	0.99442	1.0005	0.0054236	0.9823	0.99437	1.0003	0.0050971	-0.0059	-5e-05	0.0033	0.0025609
50	0.9867	0.99431	1.0034	0.0052644	0.987	0.99519	1.0021	0.0050446	-0.0027	0.00088	0.0045	0.0020633



# Device Test: 28.17 VOLTAGE|OC/CS/4.5/4.5/0/0/4.5/1MHz//@V\_CS\_ILIM\_OC

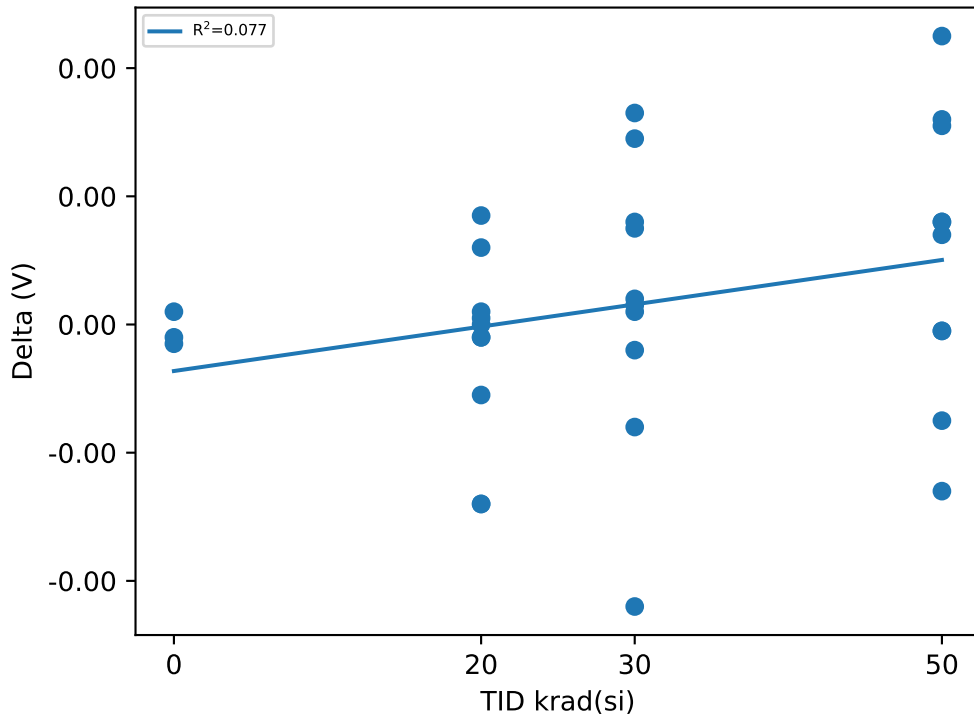
## TID vs Result Stats



## Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9958	0.9975	0.0017
22	20	HDR BIAS	0.99	0.9912	0.0012
23	20	HDR BIAS	0.9989	0.999	0.0001
24	20	HDR BIAS	1.0032	1.0021	-0.0011
25	20	HDR BIAS	0.9943	0.9945	0.0002
26	20	HDR UNBIAS	1.0034	1.0006	-0.0028
27	20	HDR UNBIAS	1.0065	1.0063	-0.0002
28	20	HDR UNBIAS	1.002	1.0018	-0.0002
29	20	HDR UNBIAS	0.9942	0.9914	-0.0028
30	20	HDR UNBIAS	0.9958	0.9958	0
31	30	HDR BIAS	1.0016	1.002	0.0004
32	30	HDR BIAS	0.9958	0.996	0.0002
33	30	HDR BIAS	0.9945	0.996	0.0015
34	30	HDR BIAS	1.0004	1.0033	0.0029
35	30	HDR BIAS	0.9913	0.9946	0.0033
36	30	HDR UNBIAS	0.9853	0.9856	0.0003
37	30	HDR UNBIAS	0.9975	0.9971	-0.0004
38	30	HDR UNBIAS	0.9974	0.999	0.0016
39	30	HDR UNBIAS	1.0019	0.9975	-0.0044
40	30	HDR UNBIAS	0.9958	0.9942	-0.0016
41	50	HDR BIAS	0.9912	0.9886	-0.0026
42	50	HDR BIAS	0.9899	0.9915	0.0016
43	50	HDR BIAS	0.9947	0.9961	0.0014
44	50	HDR BIAS	0.9988	1.0004	0.0016
45	50	HDR BIAS	0.9974	1.0005	0.0031
46	50	HDR UNBIAS	0.9883	0.9928	0.0045
47	50	HDR UNBIAS	1.0006	1.0005	-0.0001
48	50	HDR UNBIAS	0.9959	0.9958	-0.0001
49	50	HDR UNBIAS	0.9988	1.002	0.0032
50	50	HDR UNBIAS	1.005	1.0035	-0.0015
71	0	CORRELATION	1.0035	1.0033	-0.0002
72	0	CORRELATION	0.9973	0.9975	0.0002
73	0	CORRELATION	0.999	0.9987	-0.0003

## TID vs Post - Pre Exposure Delta

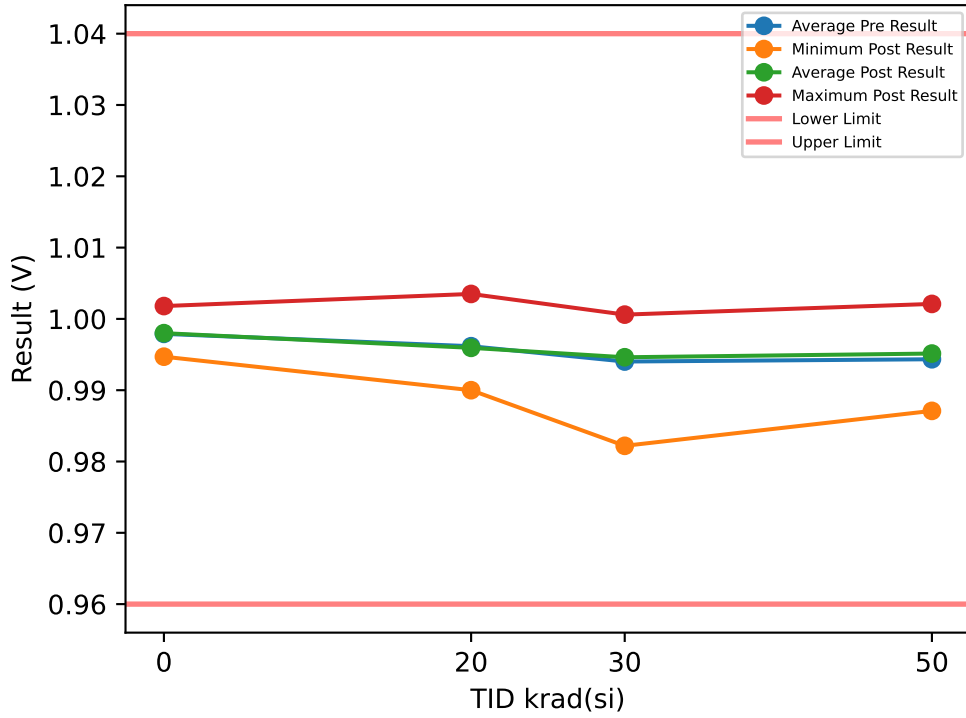


## Test Statistics (V)

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	0.9973	0.99993	1.0035	0.0032036	0.9975	0.99983	1.0033	0.0030616	-0.0003	-0.0001	0.0002	0.00026458
20	0.99	0.99841	1.0065	0.0052216	0.9912	0.99802	1.0063	0.004888	-0.0028	-0.00039	0.0017	0.0014843
30	0.9853	0.99615	1.0019	0.0050379	0.9856	0.99653	1.0033	0.0048569	-0.0044	0.00038	0.0033	0.002237
50	0.9883	0.99606	1.005	0.0051748	0.9886	0.99717	1.0035	0.0049858	-0.0026	0.00111	0.0045	0.0022083

# Device Test: 28.18 VOLTAGE|OC/CS/5/5/0/0/5/1MHz//@V\_CS\_ILIM\_OC

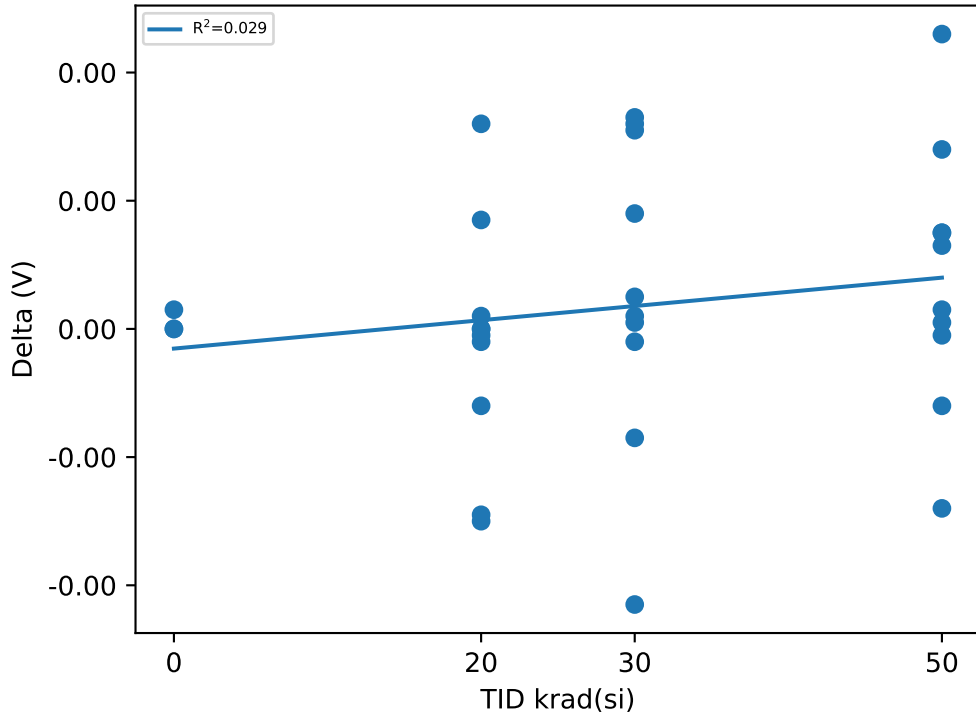
### TID vs Result Stats



### Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9928	0.9945	0.0017
22	20	HDR BIAS	0.9869	0.9901	0.0032
23	20	HDR BIAS	0.9973	0.9975	0.0002
24	20	HDR BIAS	1.0015	1.0003	-0.0012
25	20	HDR BIAS	0.9914	0.9913	-0.0001
26	20	HDR UNBIAS	1.0005	0.9976	-0.0029
27	20	HDR UNBIAS	1.0035	1.0035	0
28	20	HDR UNBIAS	1.002	1.0018	-0.0002
29	20	HDR UNBIAS	0.993	0.99	-0.003
30	20	HDR UNBIAS	0.9928	0.9928	0
31	30	HDR BIAS	1.0001	1.0006	0.0005
32	30	HDR BIAS	0.9928	0.993	0.0002
33	30	HDR BIAS	0.9914	0.9945	0.0031
34	30	HDR BIAS	0.9973	1.0005	0.0032
35	30	HDR BIAS	0.9898	0.9931	0.0033
36	30	HDR UNBIAS	0.9824	0.9822	-0.0002
37	30	HDR UNBIAS	0.9959	0.996	0.0001
38	30	HDR UNBIAS	0.9958	0.9976	0.0018
39	30	HDR UNBIAS	1.0003	0.996	-0.0043
40	30	HDR UNBIAS	0.9944	0.9927	-0.0017
41	50	HDR BIAS	0.9899	0.9871	-0.0028
42	50	HDR BIAS	0.9882	0.9883	0.0001
43	50	HDR BIAS	0.9912	0.9927	0.0015
44	50	HDR BIAS	0.9973	0.9976	0.0003
45	50	HDR BIAS	0.9959	0.9987	0.0028
46	50	HDR UNBIAS	0.9867	0.9913	0.0046
47	50	HDR UNBIAS	0.999	1.0005	0.0015
48	50	HDR UNBIAS	0.9944	0.9943	-0.0001
49	50	HDR UNBIAS	0.9975	0.9988	0.0013
50	50	HDR UNBIAS	1.0033	1.0021	-0.0012
71	0	CORRELATION	1.0018	1.0018	0
72	0	CORRELATION	0.9944	0.9947	0.0003
73	0	CORRELATION	0.9975	0.9975	0

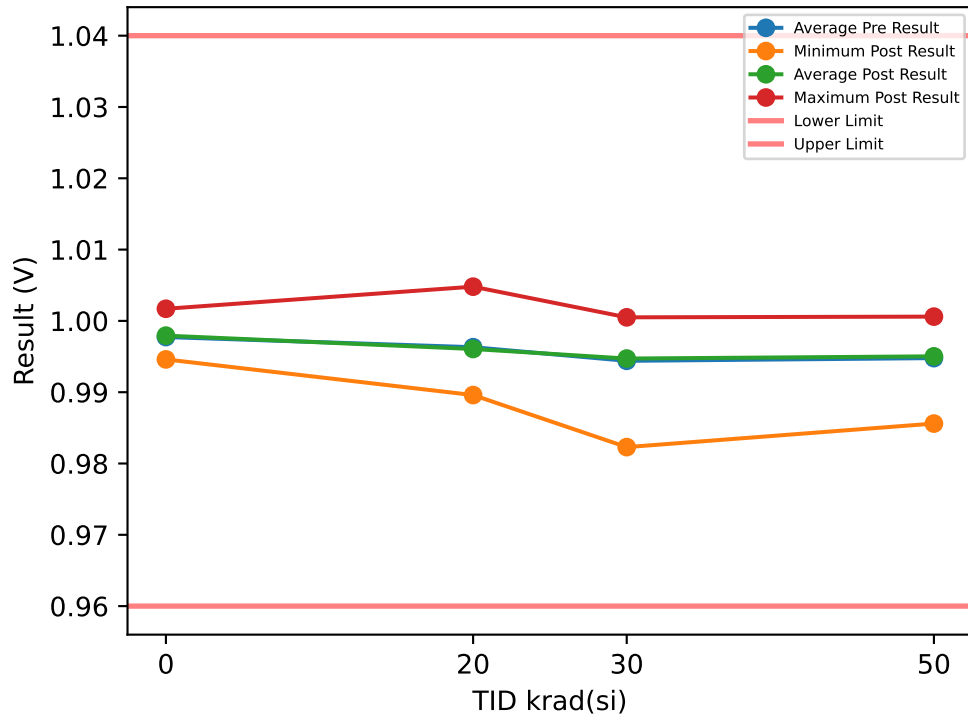
### TID vs Post - Pre Exposure Delta



### 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	0.9944	0.9979	1.0018	0.0037162	0.9947	0.998	1.0018	0.0035763	0	0.0001	0.0003	0.00017321
20	0.9869	0.99617	1.0035	0.0055538	0.99	0.99594	1.0035	0.0049277	-0.003	-0.00023	0.0032	0.001872
30	0.9824	0.99402	1.0003	0.005325	0.9822	0.99462	1.0006	0.0052272	-0.0043	0.0006	0.0033	0.002406
50	0.9867	0.99434	1.0033	0.0052581	0.9871	0.99514	1.0021	0.0051868	-0.0028	0.0008	0.0046	0.0020597

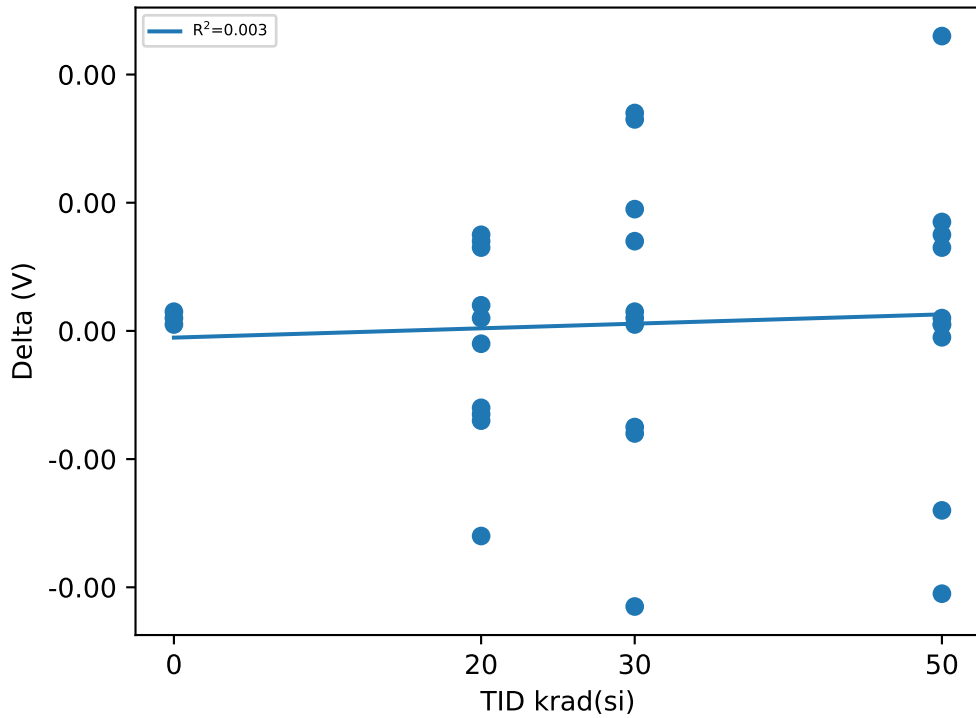
TID vs Result Stats



Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9928	0.9943	0.0015
22	20	HDR BIAS	0.9883	0.9896	0.0013
23	20	HDR BIAS	0.9973	0.9961	-0.0012
24	20	HDR BIAS	1.0017	1.0003	-0.0014
25	20	HDR BIAS	0.9914	0.9912	-0.0002
26	20	HDR UNBIAS	1.0006	0.9993	-0.0013
27	20	HDR UNBIAS	1.0034	1.0048	0.0014
28	20	HDR UNBIAS	1.0001	1.0005	0.0004
29	20	HDR UNBIAS	0.9932	0.99	-0.0032
30	20	HDR UNBIAS	0.9943	0.9945	0.0002
31	30	HDR BIAS	1.0003	1.0005	0.0002
32	30	HDR BIAS	0.9943	0.9946	0.0003
33	30	HDR BIAS	0.9912	0.9946	0.0034
34	30	HDR BIAS	0.9988	1.0002	0.0014
35	30	HDR BIAS	0.9898	0.9931	0.0033
36	30	HDR UNBIAS	0.9822	0.9823	0.0001
37	30	HDR UNBIAS	0.9972	0.9957	-0.0015
38	30	HDR UNBIAS	0.9956	0.9975	0.0019
39	30	HDR UNBIAS	1.0003	0.996	-0.0043
40	30	HDR UNBIAS	0.9943	0.9927	-0.0016
41	50	HDR BIAS	0.9897	0.9856	-0.0041
42	50	HDR BIAS	0.9883	0.99	0.0017
43	50	HDR BIAS	0.9928	0.9927	-0.0001
44	50	HDR BIAS	0.9974	0.9976	0.0002
45	50	HDR BIAS	0.9972	0.9987	0.0015
46	50	HDR UNBIAS	0.9867	0.9913	0.0046
47	50	HDR UNBIAS	1.0005	1.0006	0.0001
48	50	HDR UNBIAS	0.9944	0.9945	0.0001
49	50	HDR UNBIAS	0.9974	0.9987	0.0013
50	50	HDR UNBIAS	1.0034	1.0006	-0.0028
71	0	CORRELATION	1.0016	1.0017	0.0001
72	0	CORRELATION	0.9944	0.9946	0.0002
73	0	CORRELATION	0.9972	0.9975	0.0003

TID vs Post - Pre Exposure Delta

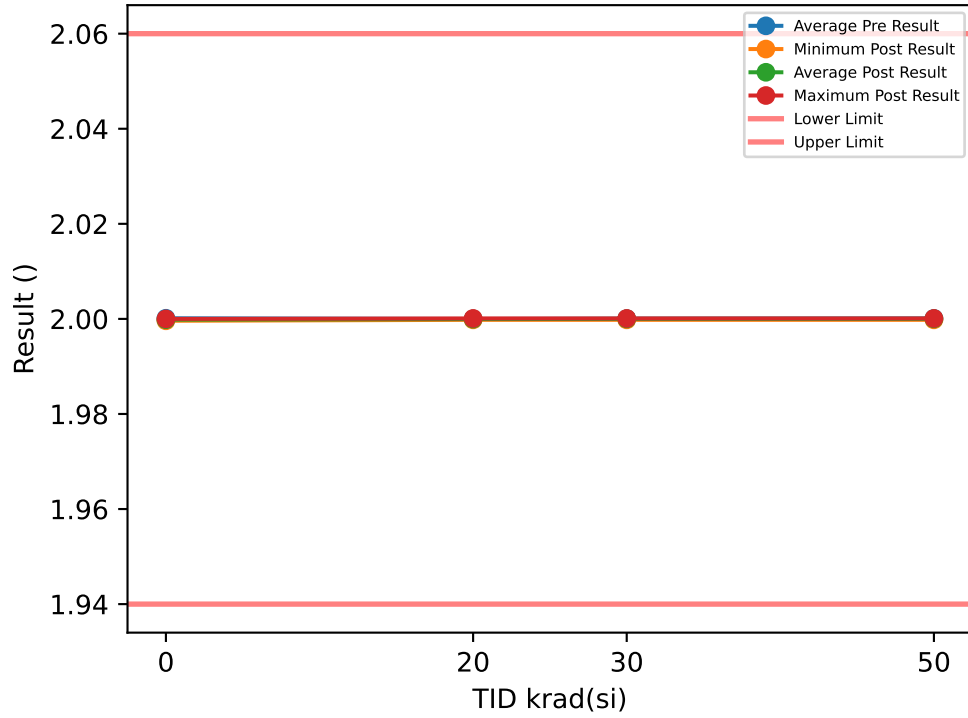


Test Statistics (V)

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	0.9944	0.99773	1.0016	0.0036295	0.9946	0.99793	1.0017	0.0035698	0.0001	0.0002	0.0003	0.0001
20	0.9883	0.99631	1.0034	0.0050263	0.9896	0.99606	1.0048	0.0050792	-0.0032	-0.00025	0.0015	0.0015219
30	0.9822	0.9944	1.0003	0.005563	0.9823	0.99472	1.0005	0.0051072	-0.0043	0.00032	0.0034	0.0023673
50	0.9867	0.99478	1.0034	0.0054135	0.9856	0.99503	1.0006	0.0050491	-0.0041	0.00025	0.0046	0.0024057

# Device Test: 28.2 LEVEL|RATIO/CS/5/5/0/0/5/500kHz//@C\_CS\_R

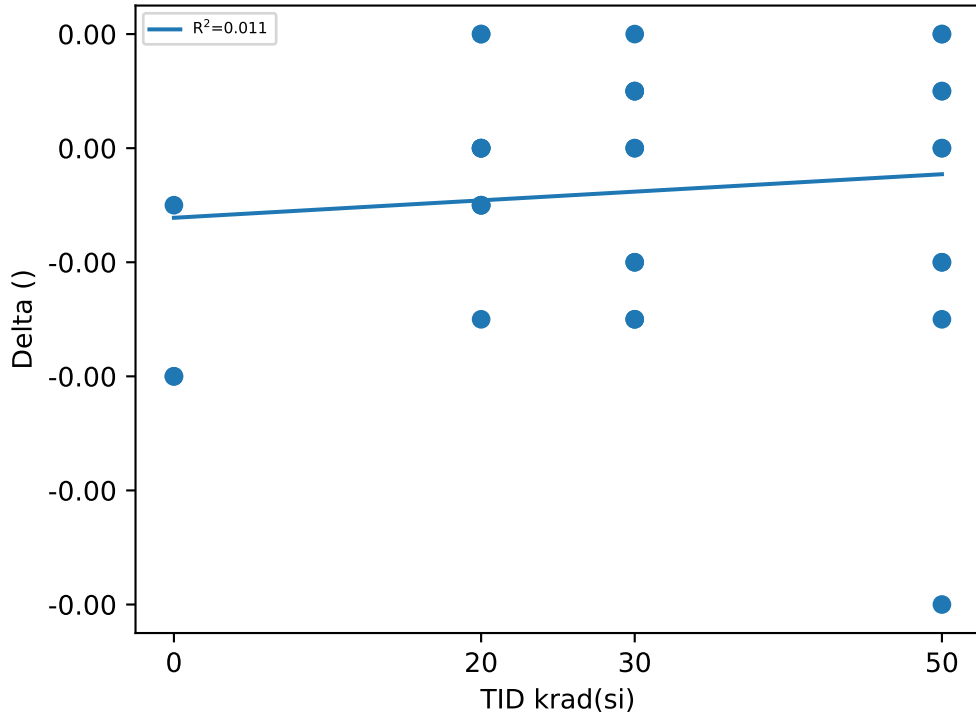
## TID vs Result Stats



## Test Results (Lower Limit = 1.94, Upper Limit = 2.06 ())

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.9999	1.9998	-0.0001
22	20	HDR BIAS	2	1.9999	-0.0001
23	20	HDR BIAS	2.0001	1.9998	-0.0003
24	20	HDR BIAS	2	2	0
25	20	HDR BIAS	2	2	0
26	20	HDR UNBIAS	1.9999	2.0001	0.0002
27	20	HDR UNBIAS	2	2	0
28	20	HDR UNBIAS	1.9998	2	0.0002
29	20	HDR UNBIAS	2	2	0
30	20	HDR UNBIAS	2.0001	2	-0.0001
31	30	HDR BIAS	2.0003	2.0001	-0.0002
32	30	HDR BIAS	2	2	0
33	30	HDR BIAS	2.0001	1.9998	-0.0003
34	30	HDR BIAS	2.0001	1.9999	-0.0002
35	30	HDR BIAS	1.9999	2	0.0001
36	30	HDR UNBIAS	2.0002	1.9999	-0.0003
37	30	HDR UNBIAS	1.9999	2.0001	0.0002
38	30	HDR UNBIAS	2	2.0001	0.0001
39	30	HDR UNBIAS	2.0001	2.0001	0
40	30	HDR UNBIAS	1.9999	2	0.0001
41	50	HDR BIAS	2	2	0
42	50	HDR BIAS	2.0001	2.0001	0
43	50	HDR BIAS	1.9999	2.0001	0.0002
44	50	HDR BIAS	1.9999	2.0001	0.0002
45	50	HDR BIAS	2	2.0001	0.0001
46	50	HDR UNBIAS	2.0007	1.9999	-0.0008
47	50	HDR UNBIAS	2.0003	2.0001	-0.0002
48	50	HDR UNBIAS	2.0001	1.9999	-0.0002
49	50	HDR UNBIAS	1.9999	2	0.0001
50	50	HDR UNBIAS	2.0001	1.9998	-0.0003
71	0	CORRELATION	2.0001	2	-0.0001
72	0	CORRELATION	2.0003	1.9999	-0.0004
73	0	CORRELATION	2	1.9996	-0.0004

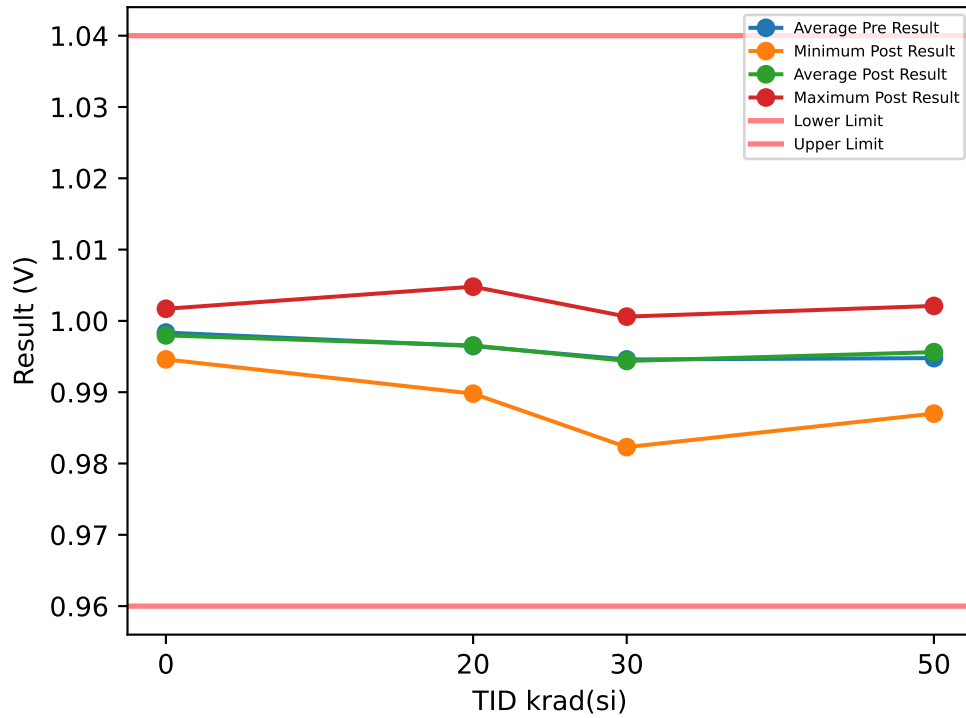
## TID vs Post - Pre Exposure Delta



## 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	2.0001	2.0003	0.00015275	1.9996	1.9998	2	0.00020817	-0.0004	-0.0003	-0.0001	0.00017321
20	1.9998	2	2.0001	9.1894e-05	1.9998	2	2.0001	9.6609e-05	-0.0003	-2e-05	0.0002	0.00014757
30	1.9999	2	2.0003	0.0001354	1.9998	2	2.0001	0.00010541	-0.0003	-5e-05	0.0002	0.00018409
50	1.9999	2.0001	2.0007	0.00024495	1.9998	2	2.0001	0.00011005	-0.0008	-9e-05	0.0002	0.0003035

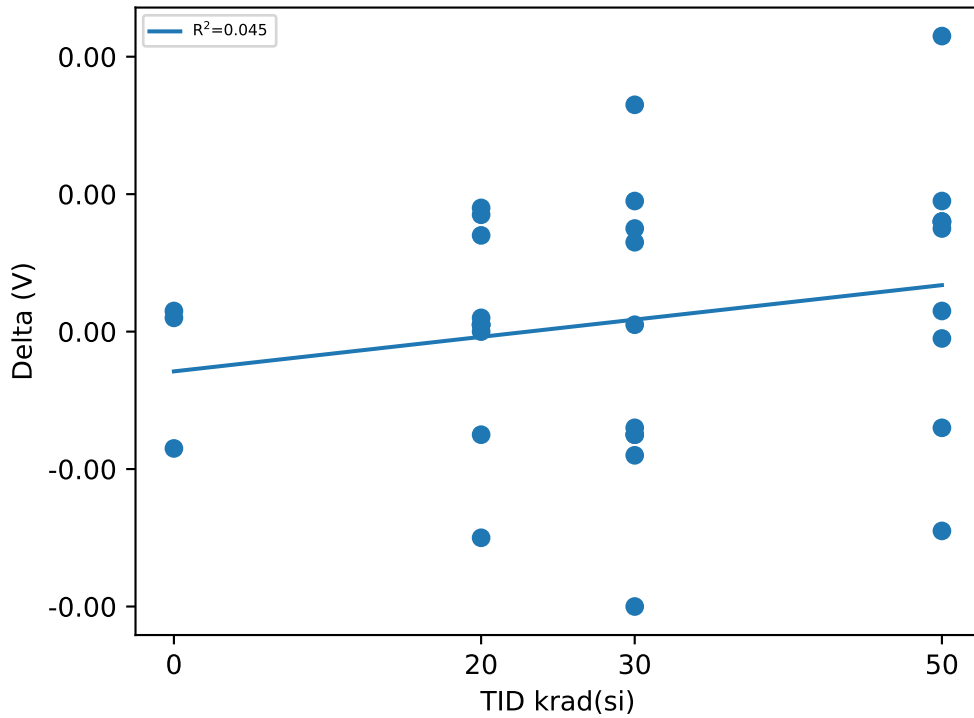
TID vs Result Stats



Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9928	0.9945	0.0017
22	20	HDR BIAS	0.988	0.9898	0.0018
23	20	HDR BIAS	0.9975	0.9976	0.0001
24	20	HDR BIAS	1.0019	1.002	0.0001
25	20	HDR BIAS	0.9915	0.9916	0.0001
26	20	HDR UNBIAS	1.0005	0.999	-0.0015
27	20	HDR UNBIAS	1.0034	1.0048	0.0014
28	20	HDR UNBIAS	1.0018	1.0018	0
29	20	HDR UNBIAS	0.993	0.99	-0.003
30	20	HDR UNBIAS	0.9943	0.9945	0.0002
31	30	HDR BIAS	1.0021	1.0006	-0.0015
32	30	HDR BIAS	0.9944	0.9929	-0.0015
33	30	HDR BIAS	0.9928	0.9943	0.0015
34	30	HDR BIAS	0.9989	1.0002	0.0013
35	30	HDR BIAS	0.9898	0.9931	0.0033
36	30	HDR UNBIAS	0.9822	0.9823	0.0001
37	30	HDR UNBIAS	0.9972	0.9958	-0.0014
38	30	HDR UNBIAS	0.9956	0.9975	0.0019
39	30	HDR UNBIAS	0.9985	0.9945	-0.004
40	30	HDR UNBIAS	0.9944	0.9926	-0.0018
41	50	HDR BIAS	0.9899	0.987	-0.0029
42	50	HDR BIAS	0.9883	0.9898	0.0015
43	50	HDR BIAS	0.9928	0.9927	-0.0001
44	50	HDR BIAS	0.9974	0.999	0.0016
45	50	HDR BIAS	0.9972	0.9988	0.0016
46	50	HDR UNBIAS	0.987	0.9913	0.0043
47	50	HDR UNBIAS	1.0003	1.0006	0.0003
48	50	HDR UNBIAS	0.9942	0.9961	0.0019
49	50	HDR UNBIAS	0.9972	0.9988	0.0016
50	50	HDR UNBIAS	1.0035	1.0021	-0.0014
71	0	CORRELATION	1.0034	1.0017	-0.0017
72	0	CORRELATION	0.9944	0.9946	0.0002
73	0	CORRELATION	0.9973	0.9976	0.0003

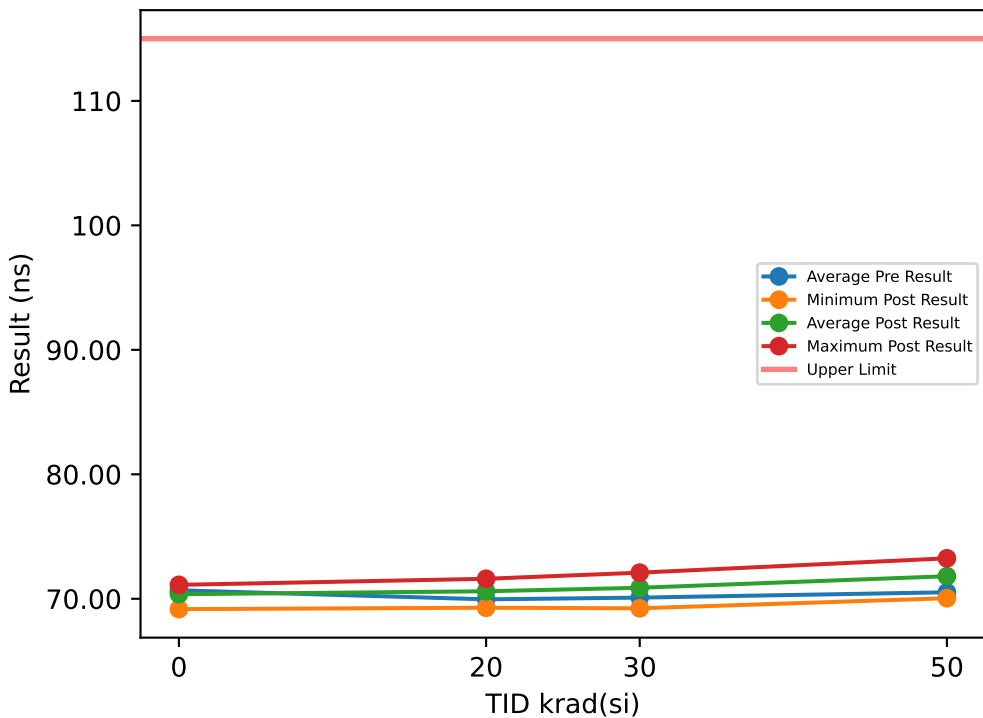
TID vs Post - Pre Exposure Delta



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	0.9944	0.99837	1.0034	0.0045938	0.9946	0.99797	1.0017	0.0035642	-0.0017	-0.0004	0.0003	0.0011269
20	0.988	0.99647	1.0034	0.0052692	0.9898	0.99656	1.0048	0.0053104	-0.003	9e-05	0.0018	0.0014655
30	0.9822	0.99459	1.0021	0.0055561	0.9823	0.99438	1.0006	0.0051344	-0.004	-0.00021	0.0033	0.0022038
50	0.987	0.99478	1.0035	0.00533	0.987	0.99562	1.0021	0.0050994	-0.0029	0.00084	0.0043	0.0019845

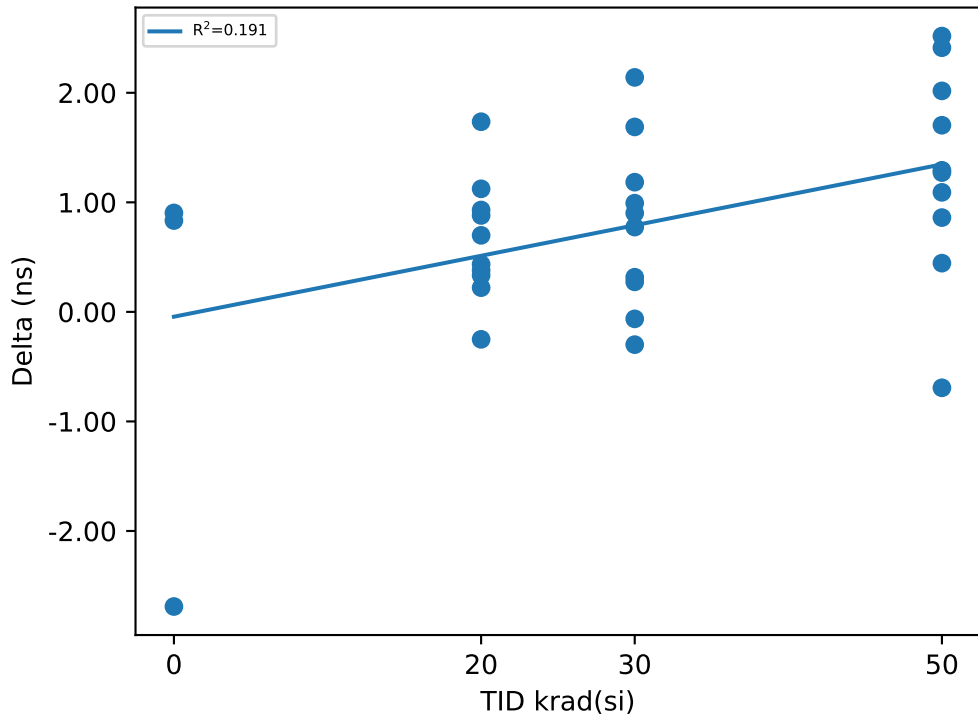
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	70.559	70.994	0.4343
22	20	HDR BIAS	69.076	70.811	1.7359
23	20	HDR BIAS	70.891	71.27	0.3798
24	20	HDR BIAS	70.414	71.294	0.8803
25	20	HDR BIAS	68.461	69.391	0.9302
26	20	HDR UNBIAS	71.271	71.605	0.3334
27	20	HDR UNBIAS	70.887	70.636	-0.2505
28	20	HDR UNBIAS	68.322	69.445	1.1234
29	20	HDR UNBIAS	70.598	71.297	0.6989
30	20	HDR UNBIAS	69.057	69.278	0.2213
31	30	HDR BIAS	70.269	71.957	1.6883
32	30	HDR BIAS	71.267	72.041	0.7741
33	30	HDR BIAS	69.457	69.773	0.3165
34	30	HDR BIAS	68.487	70.627	2.1405
35	30	HDR BIAS	71.195	72.097	0.9018
36	30	HDR UNBIAS	68.552	69.545	0.9924
37	30	HDR UNBIAS	71.064	71	-0.0637
38	30	HDR UNBIAS	71.251	71.525	0.2741
39	30	HDR UNBIAS	69.844	71.028	1.184
40	30	HDR UNBIAS	69.531	69.233	-0.299
41	50	HDR BIAS	71.096	72.8	1.7038
42	50	HDR BIAS	70.838	73.25	2.4116
43	50	HDR BIAS	67.526	70.043	2.5177
44	50	HDR BIAS	71.833	72.278	0.4449
45	50	HDR BIAS	70.58	72.598	2.0175
46	50	HDR UNBIAS	70.547	71.408	0.8609
47	50	HDR UNBIAS	70.921	72.013	1.0912
48	50	HDR UNBIAS	70.723	71.995	1.2716
49	50	HDR UNBIAS	69.401	70.693	1.2926
50	50	HDR UNBIAS	71.738	71.046	-0.6929
71	0	CORRELATION	71.858	69.168	-2.6895
72	0	CORRELATION	70.284	71.118	0.8338
73	0	CORRELATION	69.905	70.808	0.9033

TID vs Post - Pre Exposure Delta



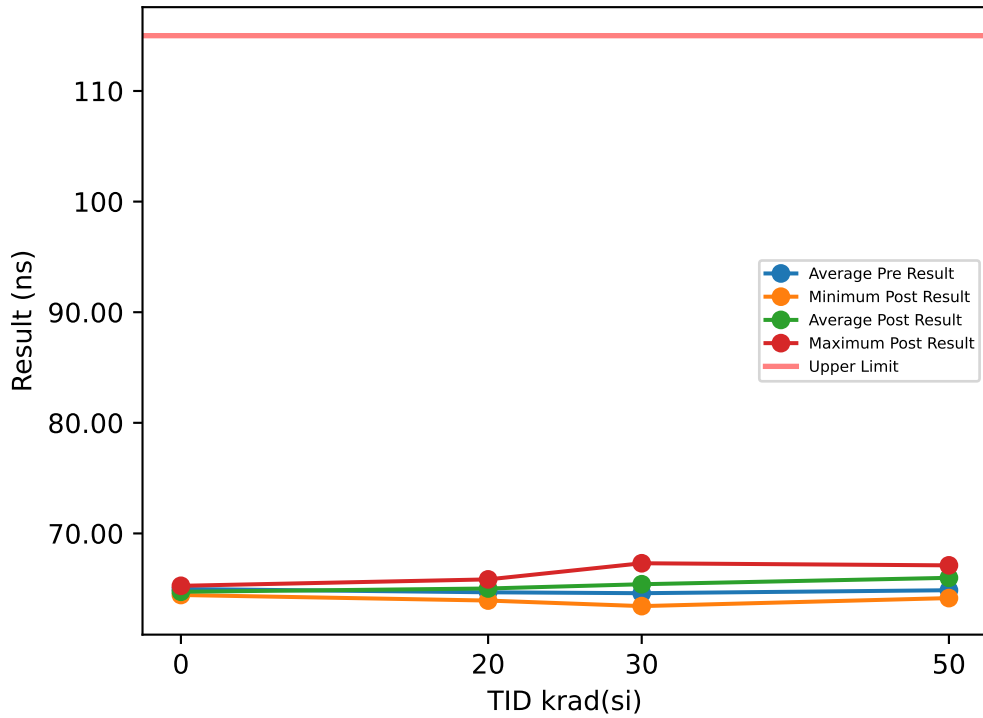
Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	69.905	70.682	71.858	1.0356	69.168	70.365	71.118	1.0477	-2.6895	-0.31747	0.9033	2.0545
20	68.322	69.954	71.271	1.1027	69.278	70.602	71.605	0.89244	-0.2505	0.6487	1.7359	0.55294
30	68.487	70.092	71.267	1.0875	69.233	70.883	72.097	1.066	-0.299	0.7909	2.1405	0.76339
50	67.526	70.52	71.833	1.2501	70.043	71.812	73.25	1.0044	-0.6929	1.2919	2.5177	0.96239



# Device Test: 28.22 TIMING|DELAY/CS/5/5/0/0/5/100kHz//@CS\_ILIM\_DELAY

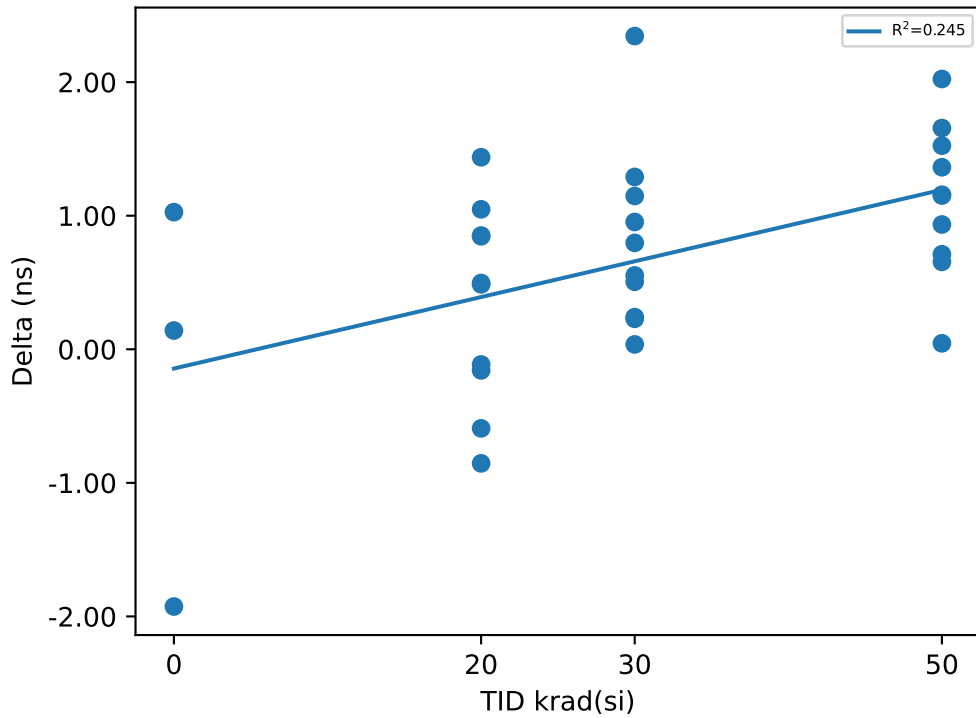
## TID vs Result Stats



## Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	64.994	65.48	0.4863
22	20	HDR BIAS	63.494	64.542	1.0478
23	20	HDR BIAS	65.952	65.793	-0.1581
24	20	HDR BIAS	64.784	65.636	0.8516
25	20	HDR BIAS	62.495	63.932	1.4375
26	20	HDR UNBIAS	66.699	65.845	-0.854
27	20	HDR UNBIAS	65.637	65.045	-0.592
28	20	HDR UNBIAS	63.557	64.053	0.4963
29	20	HDR UNBIAS	65.372	65.258	-0.1138
30	20	HDR UNBIAS	63.795	64.641	0.8459
31	30	HDR BIAS	64.817	65.965	1.1475
32	30	HDR BIAS	66.17	66.411	0.2409
33	30	HDR BIAS	64.128	65.081	0.9529
34	30	HDR BIAS	62.067	64.412	2.3448
35	30	HDR BIAS	66.507	67.303	0.7965
36	30	HDR UNBIAS	63.201	63.429	0.2282
37	30	HDR UNBIAS	64.83	66.12	1.2902
38	30	HDR UNBIAS	65.877	65.914	0.0364
39	30	HDR UNBIAS	64.426	64.979	0.553
40	30	HDR UNBIAS	63.95	64.455	0.5057
41	50	HDR BIAS	65.751	67.114	1.3629
42	50	HDR BIAS	65.747	66.898	1.1512
43	50	HDR BIAS	62.131	64.154	2.0235
44	50	HDR BIAS	65.382	66.906	1.5245
45	50	HDR BIAS	65.154	66.811	1.6563
46	50	HDR UNBIAS	64.214	64.925	0.7111
47	50	HDR UNBIAS	66.057	66.102	0.0448
48	50	HDR UNBIAS	65.306	66.464	1.1573
49	50	HDR UNBIAS	63.325	64.259	0.9343
50	50	HDR UNBIAS	65.586	66.24	0.6544
71	0	CORRELATION	66.36	64.434	-1.9258
72	0	CORRELATION	64.238	65.265	1.0268
73	0	CORRELATION	64.338	64.478	0.1405

## TID vs Post - Pre Exposure Delta

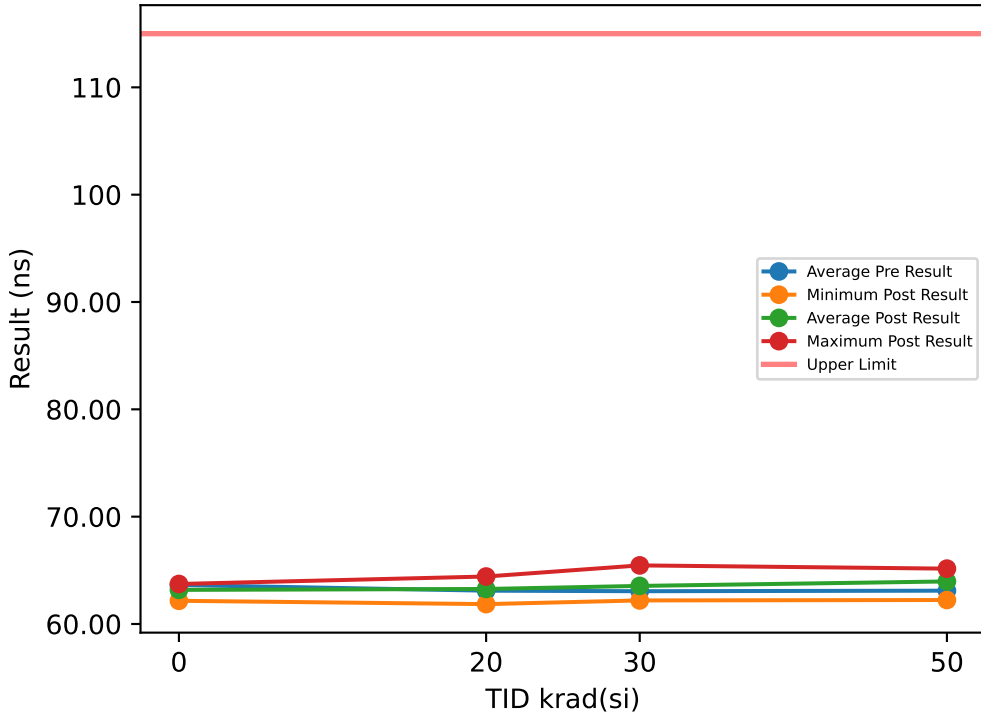


## Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	64.238	64.979	66.36	1.1974	64.434	64.726	65.265	0.46722	-1.9258	-0.25283	1.0268	1.5151
20	62.495	64.678	66.699	1.3091	63.932	65.023	65.845	0.70065	-0.854	0.34475	1.4375	0.74663
30	62.067	64.597	66.507	1.3697	63.429	65.407	67.303	1.1441	0.0364	0.80961	2.3448	0.67825
50	62.131	64.865	66.057	1.2614	64.154	65.987	67.114	1.1254	0.0448	1.122	2.0235	0.56798



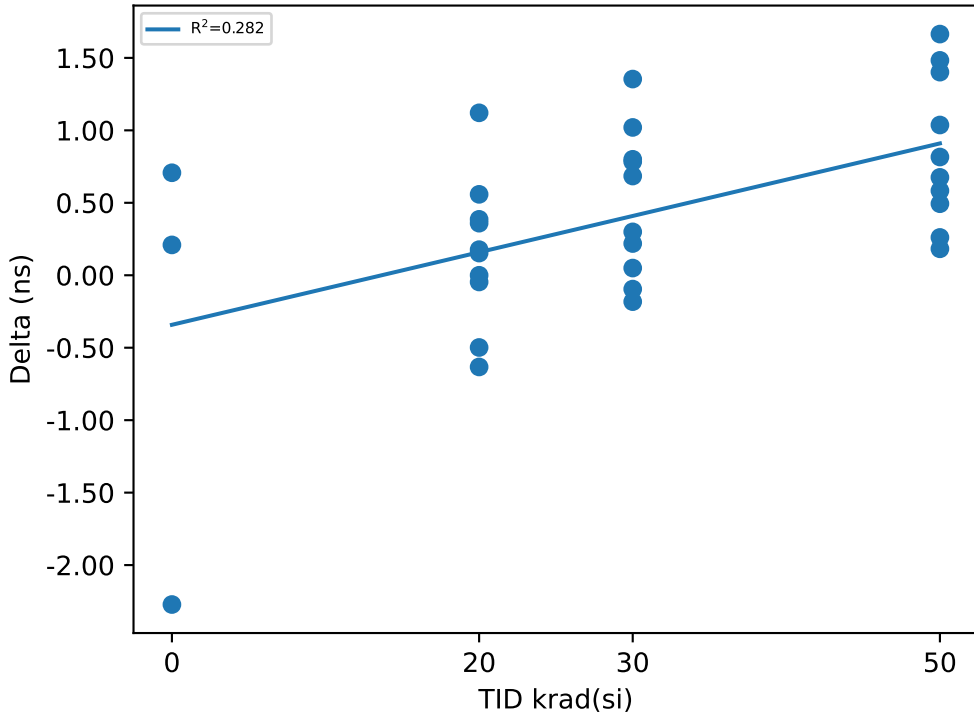
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	63.128	62.495	-0.6327
22	20	HDR BIAS	62.126	63.247	1.1209
23	20	HDR BIAS	63.902	64.078	0.1767
24	20	HDR BIAS	64.063	64.423	0.3594
25	20	HDR BIAS	61.466	61.852	0.3859
26	20	HDR UNBIAS	63.845	63.998	0.1531
27	20	HDR UNBIAS	63.549	63.502	-0.0463
28	20	HDR UNBIAS	62.157	62.157	-0.0001
29	20	HDR UNBIAS	64.478	63.98	-0.4983
30	20	HDR UNBIAS	62.327	62.885	0.5584
31	30	HDR BIAS	63.288	63.973	0.6847
32	30	HDR BIAS	64.535	64.44	-0.0955
33	30	HDR BIAS	62.377	62.195	-0.1821
34	30	HDR BIAS	61.391	62.411	1.0201
35	30	HDR BIAS	64.66	65.46	0.8002
36	30	HDR UNBIAS	62.217	62.436	0.219
37	30	HDR UNBIAS	62.719	63.502	0.7837
38	30	HDR UNBIAS	64.191	64.241	0.0497
39	30	HDR UNBIAS	63.547	63.846	0.2994
40	30	HDR UNBIAS	61.613	62.967	1.3539
41	50	HDR BIAS	63.571	64.154	0.5837
42	50	HDR BIAS	63.687	65.088	1.4017
43	50	HDR BIAS	60.571	62.235	1.6643
44	50	HDR BIAS	63.732	64.225	0.4937
45	50	HDR BIAS	63.674	65.157	1.4829
46	50	HDR UNBIAS	62.715	63.39	0.6755
47	50	HDR UNBIAS	64.091	64.907	0.816
48	50	HDR UNBIAS	63.804	64.065	0.261
49	50	HDR UNBIAS	61.437	62.474	1.0369
50	50	HDR UNBIAS	63.762	63.945	0.1826
71	0	CORRELATION	64.434	62.161	-2.2721
72	0	CORRELATION	63.02	63.727	0.7073
73	0	CORRELATION	63.437	63.647	0.2094

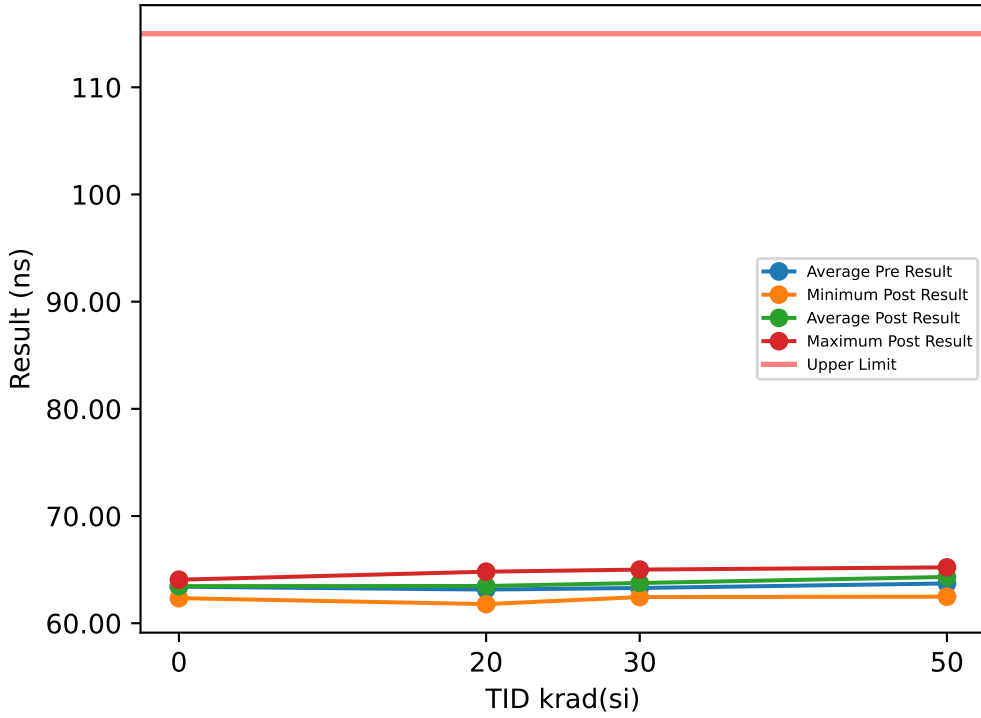
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.02	63.63	64.434	0.72645	62.161	63.178	63.727	0.88157	-2.2721	-0.4518	0.7073	1.596
20	61.466	63.104	64.478	1.0184	61.852	63.262	64.423	0.88627	-0.6327	0.1577	1.1209	0.50586
30	61.391	63.054	64.66	1.1775	62.195	63.547	65.46	1.0489	-0.1821	0.49331	1.3539	0.51053
50	60.571	63.104	64.091	1.1797	62.235	63.964	65.157	1.0129	0.1826	0.85983	1.6643	0.51895

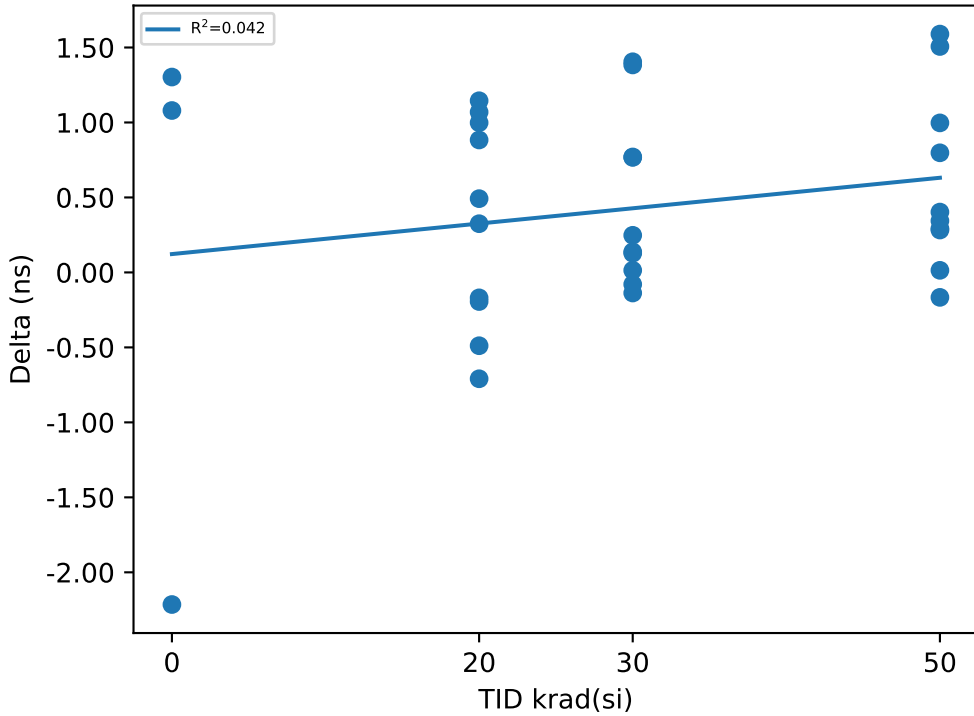
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	63.422	62.713	-0.7092
22	20	HDR BIAS	62.376	63.521	1.1449
23	20	HDR BIAS	63.238	64.121	0.8833
24	20	HDR BIAS	63.81	64.809	0.9986
25	20	HDR BIAS	61.727	62.219	0.492
26	20	HDR UNBIAS	64.326	64.156	-0.1696
27	20	HDR UNBIAS	63.709	64.034	0.3249
28	20	HDR UNBIAS	62.272	61.783	-0.4888
29	20	HDR UNBIAS	64.282	64.088	-0.1941
30	20	HDR UNBIAS	62.228	63.298	1.0692
31	30	HDR BIAS	63.412	64.796	1.3837
32	30	HDR BIAS	64.968	64.889	-0.0794
33	30	HDR BIAS	61.946	62.714	0.7672
34	30	HDR BIAS	61.702	63.107	1.4049
35	30	HDR BIAS	64.877	65.005	0.128
36	30	HDR UNBIAS	62.487	62.735	0.2476
37	30	HDR UNBIAS	63.13	63.9	0.77
38	30	HDR UNBIAS	64.379	64.516	0.1373
39	30	HDR UNBIAS	63.555	63.418	-0.1373
40	30	HDR UNBIAS	62.427	62.441	0.014
41	50	HDR BIAS	64.758	64.592	-0.1663
42	50	HDR BIAS	64.526	64.809	0.2827
43	50	HDR BIAS	60.889	62.479	1.5895
44	50	HDR BIAS	64.802	65.094	0.292
45	50	HDR BIAS	64.693	64.707	0.014
46	50	HDR UNBIAS	63.165	63.568	0.4025
47	50	HDR UNBIAS	64.294	64.638	0.3443
48	50	HDR UNBIAS	64.215	65.212	0.9972
49	50	HDR UNBIAS	61.821	63.327	1.5068
50	50	HDR UNBIAS	63.948	64.745	0.7977
71	0	CORRELATION	64.555	62.34	-2.2147
72	0	CORRELATION	62.684	63.987	1.303
73	0	CORRELATION	62.979	64.059	1.0798

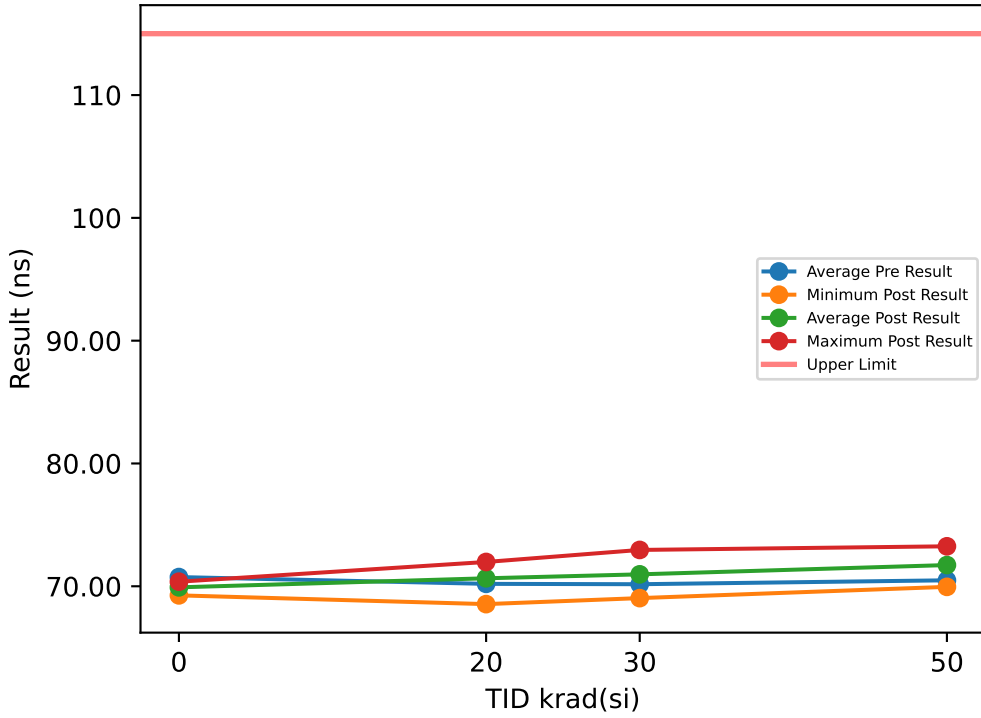
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.684	63.406	64.555	1.0059	62.34	63.462	64.059	0.97215	-2.2147	0.056033	1.303	1.9697
20	61.727	63.139	64.326	0.9272	61.783	63.474	64.809	0.96616	-0.7092	0.33512	1.1449	0.68834
30	61.702	63.288	64.968	1.1713	62.441	63.752	65.005	0.99537	-0.1373	0.4636	1.4049	0.58143
50	60.889	63.711	64.802	1.3499	62.479	64.317	65.212	0.88703	-0.1663	0.60604	1.5895	0.59893

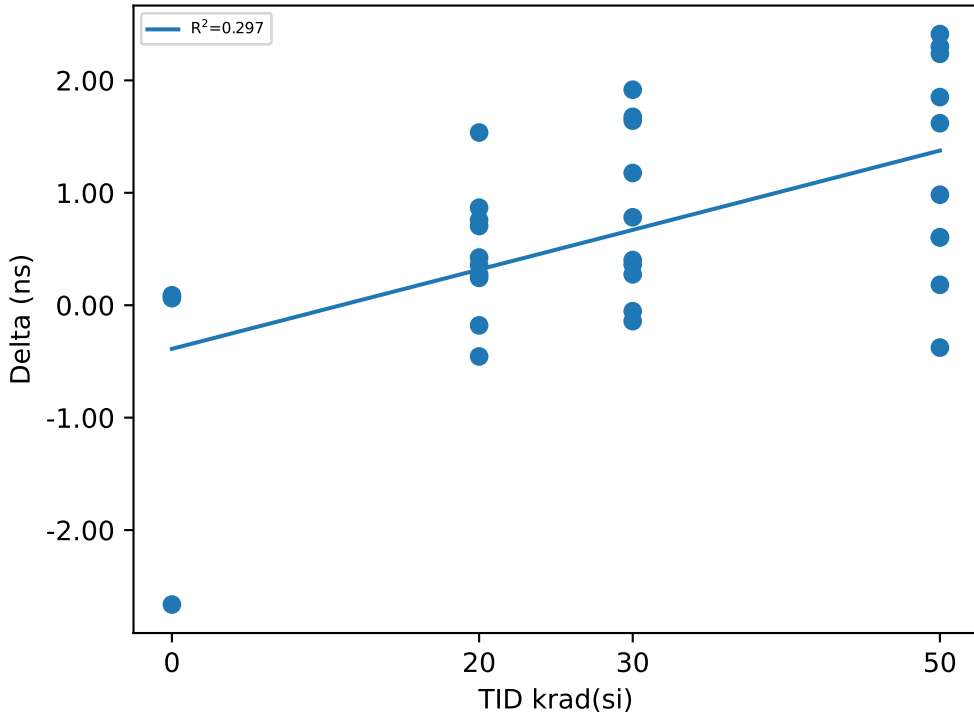
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	70.111	70.868	0.7576
22	20	HDR BIAS	69.123	70.659	1.5364
23	20	HDR BIAS	71.252	71.957	0.7045
24	20	HDR BIAS	71.112	71.979	0.8674
25	20	HDR BIAS	68.291	68.716	0.4241
26	20	HDR UNBIAS	71.611	71.431	-0.1791
27	20	HDR UNBIAS	71.216	71.46	0.2434
28	20	HDR UNBIAS	69.002	68.547	-0.4555
29	20	HDR UNBIAS	70.383	70.657	0.2737
30	20	HDR UNBIAS	69.867	70.222	0.3557
31	30	HDR BIAS	70.576	72.493	1.9167
32	30	HDR BIAS	71.904	71.851	-0.0532
33	30	HDR BIAS	68.747	70.423	1.6756
34	30	HDR BIAS	69.053	69.836	0.7825
35	30	HDR BIAS	71.317	72.959	1.6419
36	30	HDR UNBIAS	68.465	69.642	1.1762
37	30	HDR UNBIAS	71.279	71.554	0.2745
38	30	HDR UNBIAS	71.056	71.418	0.362
39	30	HDR UNBIAS	70.638	70.497	-0.1414
40	30	HDR UNBIAS	68.634	69.036	0.4018
41	50	HDR BIAS	70.513	72.813	2.3003
42	50	HDR BIAS	71.403	73.254	1.8512
43	50	HDR BIAS	67.54	69.952	2.4118
44	50	HDR BIAS	70.848	73.084	2.2358
45	50	HDR BIAS	70.895	72.513	1.6189
46	50	HDR UNBIAS	70.421	70.602	0.1816
47	50	HDR UNBIAS	70.889	71.492	0.6034
48	50	HDR UNBIAS	71.492	72.097	0.6044
49	50	HDR UNBIAS	69.461	70.444	0.9828
50	50	HDR UNBIAS	71.394	71.017	-0.3766
71	0	CORRELATION	71.922	69.26	-2.662
72	0	CORRELATION	70.309	70.372	0.0627
73	0	CORRELATION	70.016	70.105	0.0886

TID vs Post - Pre Exposure Delta

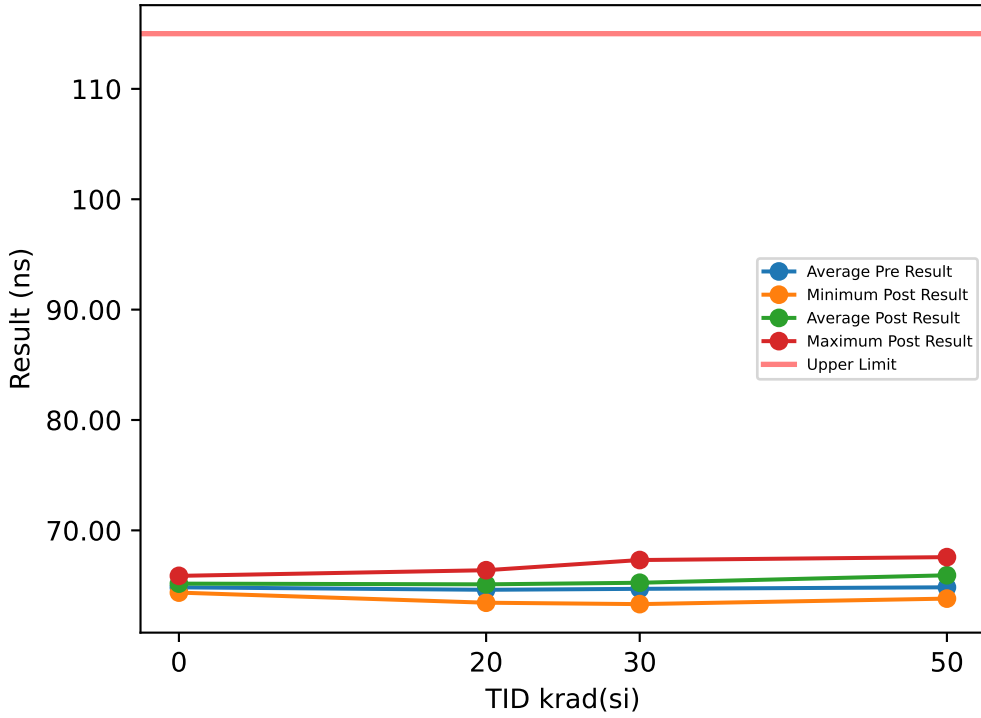


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	70.016	70.749	71.922	1.0262	69.26	69.912	70.372	0.58054	-2.662	-0.8369	0.0886	1.5806
20	68.291	70.197	71.611	1.1231	68.547	70.65	71.979	1.2082	-0.4555	0.45282	1.5364	0.55905
30	68.465	70.167	71.904	1.3021	69.036	70.971	72.959	1.2869	-0.1414	0.80366	1.9167	0.75314
50	67.54	70.486	71.492	1.1959	69.952	71.727	73.254	1.1893	-0.3766	1.2414	2.4118	0.97838

Device Test: 28.26 TIMING|DELAY/CS/5/5/0/0/5/500kHz//@CS\_ILIM\_DELAY

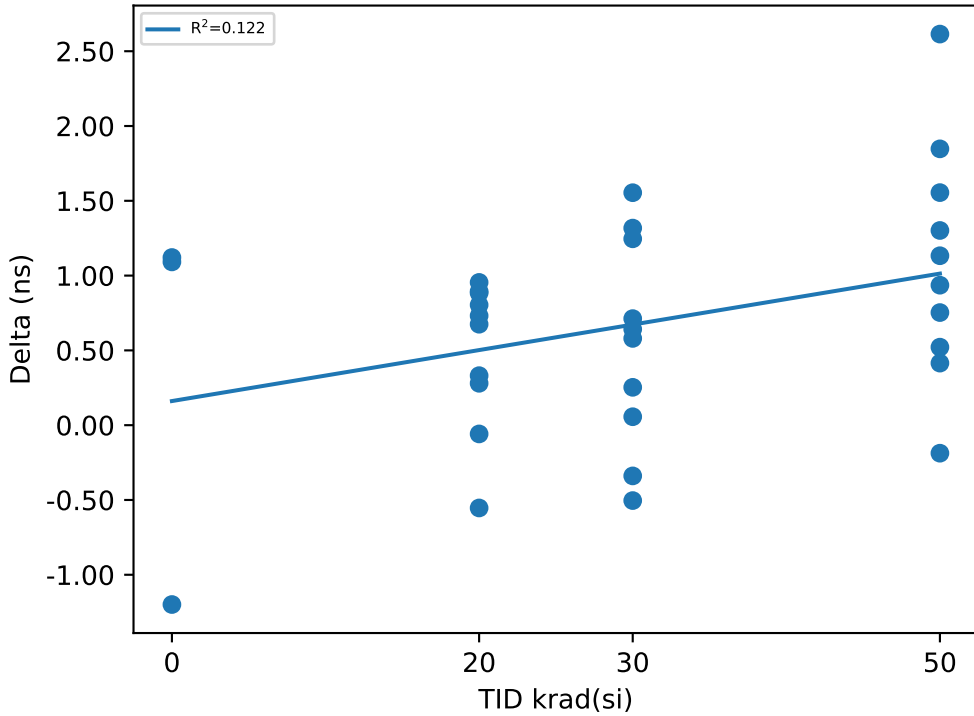
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	65.067	65.347	0.28
22	20	HDR BIAS	63.518	64.249	0.7316
23	20	HDR BIAS	66.059	66.39	0.3311
24	20	HDR BIAS	64.609	65.492	0.8837
25	20	HDR BIAS	62.551	63.446	0.8944
26	20	HDR UNBIAS	66.167	66.109	-0.0585
27	20	HDR UNBIAS	64.917	65.591	0.6749
28	20	HDR UNBIAS	63.621	64.425	0.8039
29	20	HDR UNBIAS	64.988	65.942	0.9545
30	20	HDR UNBIAS	64.669	64.116	-0.5534
31	30	HDR BIAS	64.623	65.941	1.3176
32	30	HDR BIAS	65.759	67.313	1.5542
33	30	HDR BIAS	64.263	64.319	0.0565
34	30	HDR BIAS	63.704	64.346	0.6417
35	30	HDR BIAS	66.555	67.135	0.5801
36	30	HDR UNBIAS	63.823	63.319	-0.504
37	30	HDR UNBIAS	64.71	65.422	0.7124
38	30	HDR UNBIAS	65.092	65.345	0.2531
39	30	HDR UNBIAS	64.41	65.656	1.2459
40	30	HDR UNBIAS	64.088	63.749	-0.3391
41	50	HDR BIAS	65.165	67.012	1.8473
42	50	HDR BIAS	65.768	66.901	1.1328
43	50	HDR BIAS	62.882	63.818	0.9358
44	50	HDR BIAS	65.39	66.691	1.3017
45	50	HDR BIAS	64.96	67.575	2.6146
46	50	HDR UNBIAS	64.359	64.881	0.5216
47	50	HDR UNBIAS	66.183	65.995	-0.1873
48	50	HDR UNBIAS	65.159	65.912	0.7529
49	50	HDR UNBIAS	63.305	64.86	1.5548
50	50	HDR UNBIAS	65.251	65.665	0.4149
71	0	CORRELATION	65.561	64.362	-1.1989
72	0	CORRELATION	64.758	65.879	1.1209
73	0	CORRELATION	64.196	65.287	1.0915

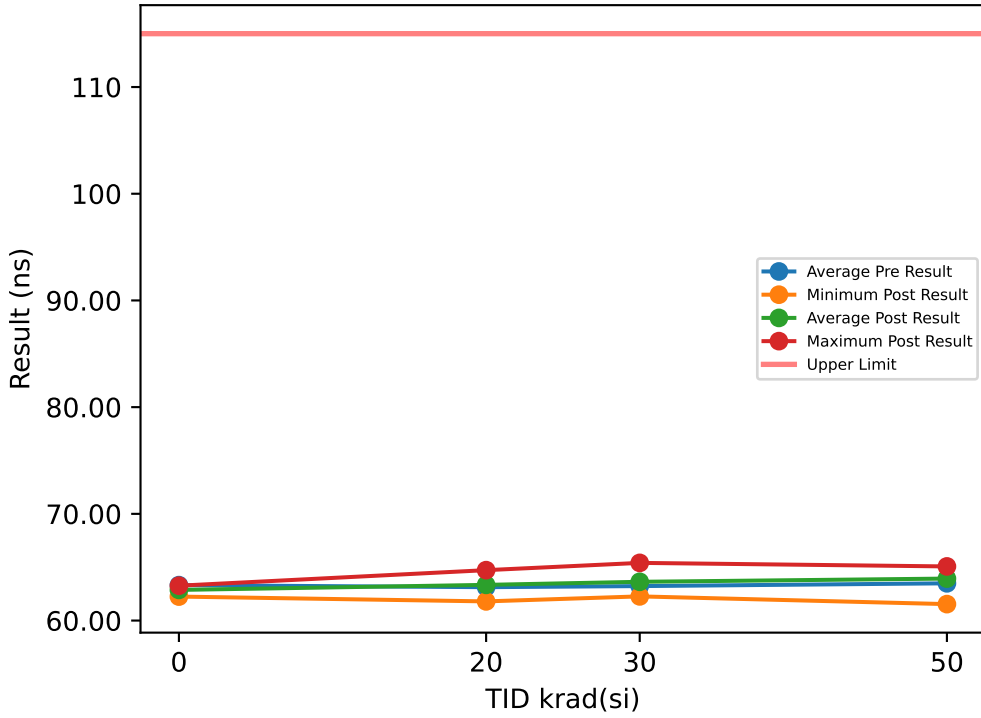
TID vs Post - Pre Exposure Delta



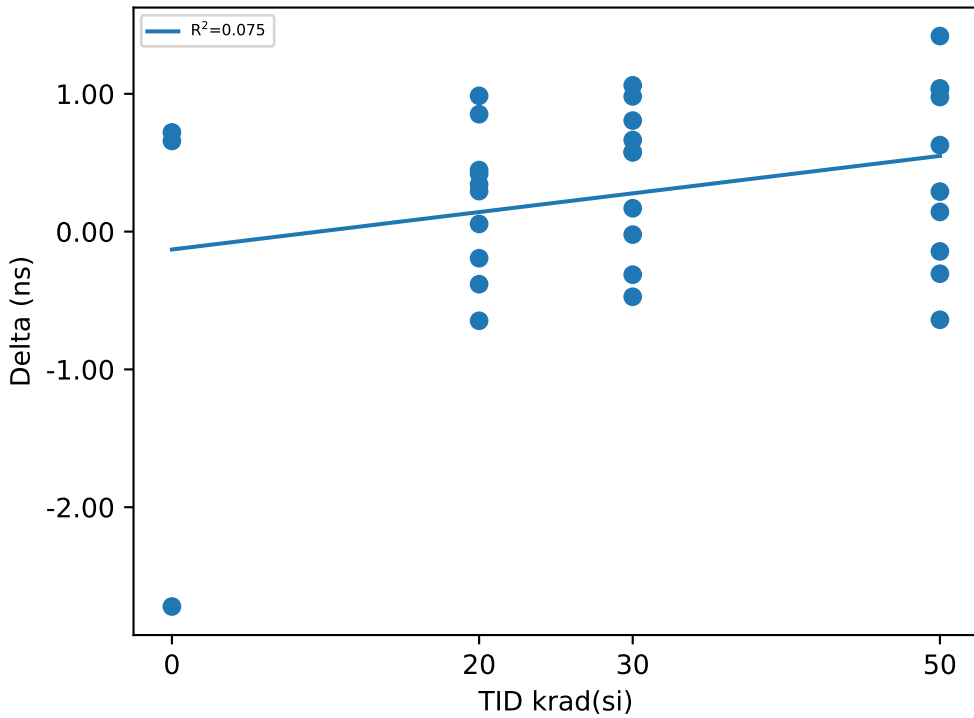
Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	64.196	64.838	65.561	0.68639	64.362	65.176	65.879	0.76427	-1.1989	0.33783	1.1209	1.3309
20	62.551	64.617	66.167	1.1245	63.446	65.111	66.39	0.98494	-0.5534	0.49422	0.9545	0.49262
30	63.704	64.703	66.555	0.89016	63.319	65.254	67.313	1.3398	-0.504	0.55184	1.5542	0.69527
50	62.882	64.842	66.183	1.0423	63.818	65.931	67.575	1.1634	-0.1873	1.0889	2.6146	0.7964

TID vs Result Stats



TID vs Post - Pre Exposure Delta



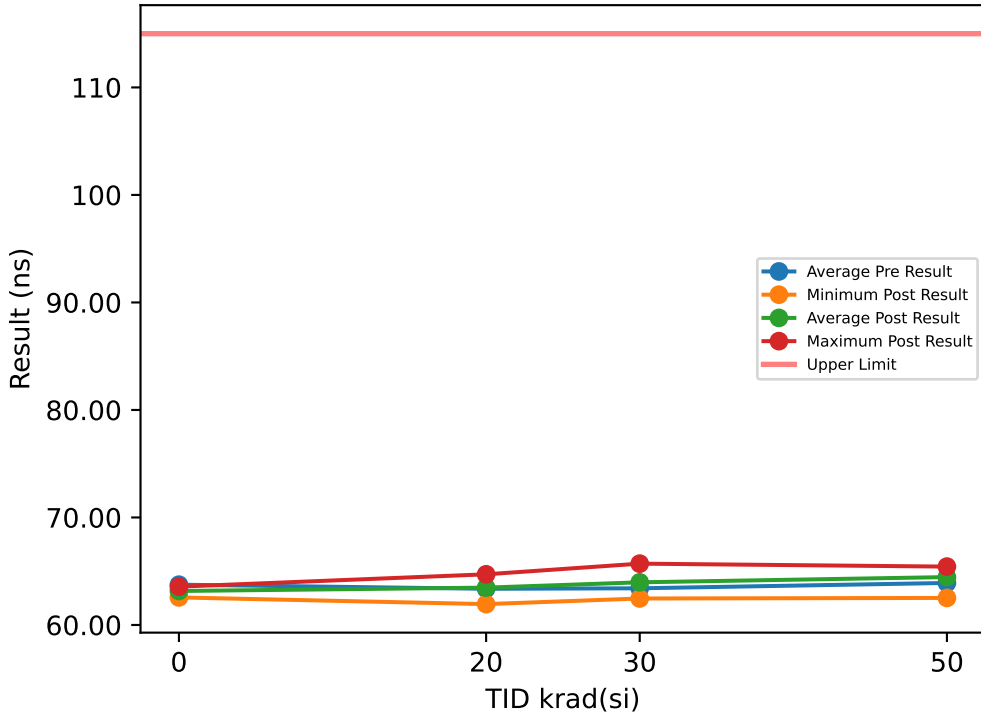
Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	62.247	63.099	0.8519
22	20	HDR BIAS	62.826	63.273	0.4467
23	20	HDR BIAS	63.924	63.276	-0.6472
24	20	HDR BIAS	64.345	64.4	0.0555
25	20	HDR BIAS	61.376	61.796	0.4194
26	20	HDR UNBIAS	64.916	64.723	-0.1931
27	20	HDR UNBIAS	63.961	64.255	0.2939
28	20	HDR UNBIAS	61.3	62.286	0.9853
29	20	HDR UNBIAS	64.273	63.892	-0.3815
30	20	HDR UNBIAS	62.107	62.449	0.3425
31	30	HDR BIAS	63.761	64.743	0.9813
32	30	HDR BIAS	64.626	65.202	0.5762
33	30	HDR BIAS	62.331	62.309	-0.0217
34	30	HDR BIAS	61.46	62.266	0.8059
35	30	HDR BIAS	64.343	65.405	1.0615
36	30	HDR UNBIAS	62.318	62.488	0.1694
37	30	HDR UNBIAS	63.683	63.21	-0.4728
38	30	HDR UNBIAS	64.409	64.097	-0.3124
39	30	HDR UNBIAS	63.036	63.701	0.6648
40	30	HDR UNBIAS	62.331	62.907	0.5763
41	50	HDR BIAS	64.261	64.889	0.6278
42	50	HDR BIAS	63.654	65.073	1.419
43	50	HDR BIAS	60.508	61.541	1.0332
44	50	HDR BIAS	64.295	64.152	-0.1436
45	50	HDR BIAS	63.541	64.518	0.9765
46	50	HDR UNBIAS	63.591	63.286	-0.3056
47	50	HDR UNBIAS	63.893	64.933	1.0395
48	50	HDR UNBIAS	64.61	63.97	-0.6397
49	50	HDR UNBIAS	62.223	62.366	0.1431
50	50	HDR UNBIAS	64.32	64.611	0.2905
71	0	CORRELATION	64.968	62.247	-2.7207
72	0	CORRELATION	62.547	63.267	0.7201
73	0	CORRELATION	62.444	63.102	0.6577

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.444	63.32	64.968	1.4287	62.247	62.872	63.267	0.54706	-2.7207	-0.44763	0.7201	1.9688
20	61.3	63.128	64.916	1.318	61.796	63.345	64.723	0.97377	-0.6472	0.21734	0.9853	0.51727
30	61.46	63.23	64.626	1.0896	62.266	63.633	65.405	1.1876	-0.4728	0.40285	1.0615	0.53466
50	60.508	63.49	64.61	1.2422	61.541	63.934	65.073	1.186	-0.6397	0.44407	1.419	0.68031

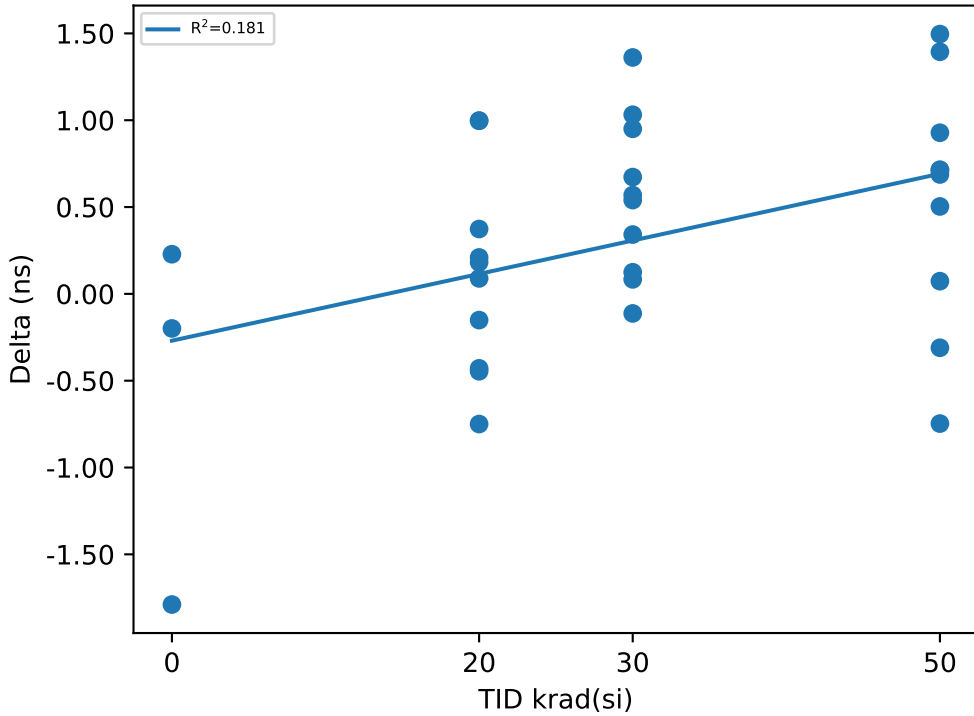
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	62.413	62.786	0.3735
22	20	HDR BIAS	63.088	62.937	-0.151
23	20	HDR BIAS	64.097	64.186	0.0891
24	20	HDR BIAS	64.531	64.713	0.1818
25	20	HDR BIAS	60.943	61.94	0.9973
26	20	HDR UNBIAS	64.928	64.499	-0.4289
27	20	HDR UNBIAS	64.357	64.567	0.2098
28	20	HDR UNBIAS	61.644	62.641	0.9973
29	20	HDR UNBIAS	64.734	63.985	-0.7496
30	20	HDR UNBIAS	62.928	62.482	-0.4457
31	30	HDR BIAS	64.04	63.927	-0.1126
32	30	HDR BIAS	65.065	65.407	0.3417
33	30	HDR BIAS	62.421	63.094	0.6726
34	30	HDR BIAS	62.106	63.138	1.0316
35	30	HDR BIAS	64.754	65.704	0.9505
36	30	HDR UNBIAS	62.572	62.656	0.0836
37	30	HDR UNBIAS	63.089	64.451	1.3615
38	30	HDR UNBIAS	64.469	64.593	0.1245
39	30	HDR UNBIAS	63.679	64.248	0.5689
40	30	HDR UNBIAS	61.923	62.463	0.5402
41	50	HDR BIAS	64.688	64.378	-0.3103
42	50	HDR BIAS	63.933	65.429	1.4961
43	50	HDR BIAS	61.828	62.516	0.6876
44	50	HDR BIAS	64.702	65.206	0.5035
45	50	HDR BIAS	63.837	65.231	1.3942
46	50	HDR UNBIAS	63.684	64.398	0.715
47	50	HDR UNBIAS	63.919	64.631	0.7127
48	50	HDR UNBIAS	65.231	64.484	-0.7469
49	50	HDR UNBIAS	62.39	63.318	0.9279
50	50	HDR UNBIAS	64.874	64.947	0.0732
71	0	CORRELATION	64.352	62.563	-1.7889
72	0	CORRELATION	63.335	63.563	0.2283
73	0	CORRELATION	63.557	63.358	-0.1991

TID vs Post - Pre Exposure Delta

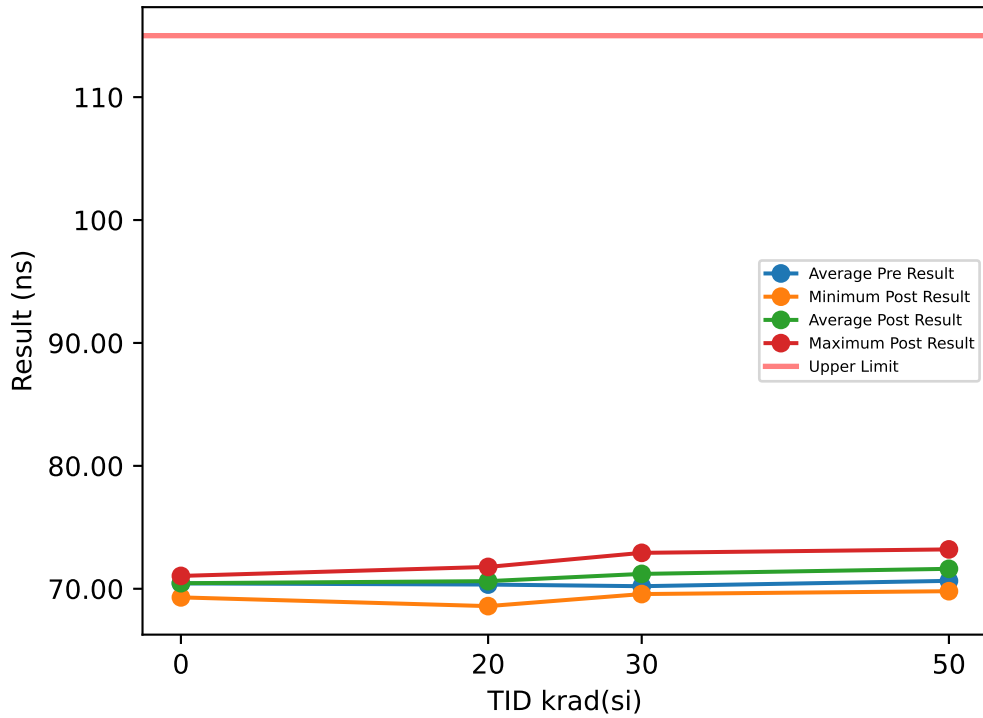


Test Statistics (ns)

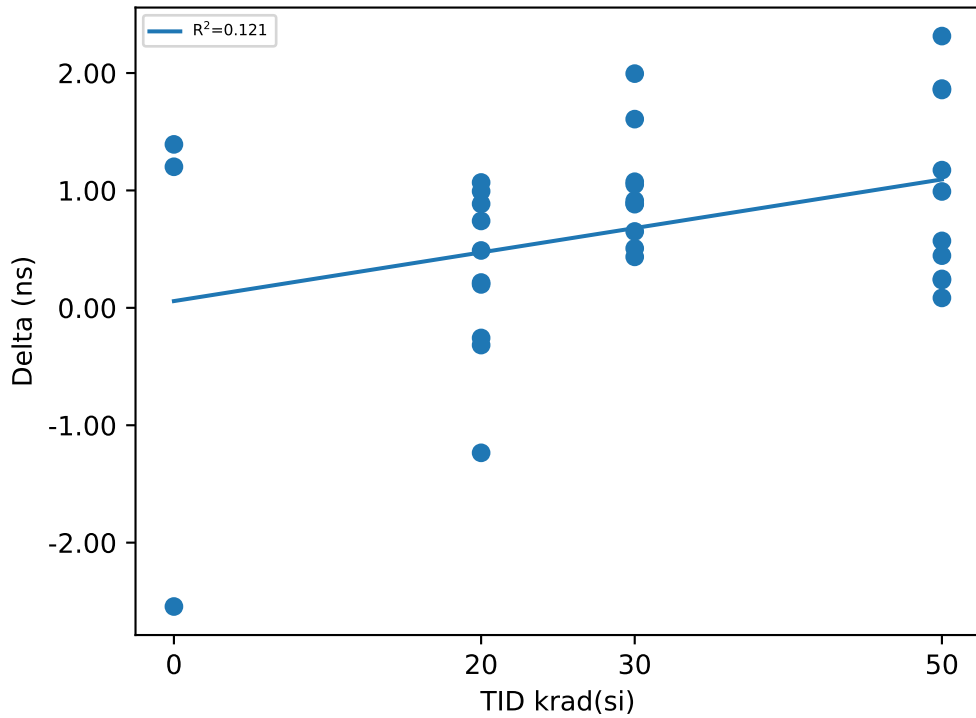
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.335	63.748	64.352	0.53472	62.563	63.162	63.563	0.52827	-1.7889	-0.58657	0.2283	1.063
20	60.943	63.366	64.928	1.3825	61.94	63.474	64.713	1.0187	-0.7496	0.10736	0.9973	0.58364
30	61.923	63.412	65.065	1.1465	62.463	63.968	65.704	1.117	-0.1126	0.55625	1.3615	0.46511
50	61.828	63.909	65.231	1.0857	62.516	64.454	65.429	0.91001	-0.7469	0.5453	1.4961	0.70511

# Device Test: 28.29 TIMING|DELAY/CS/4.5/4.5/0/0/4.5/1MHz//@CS\_ILIM\_DELAY

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 115.0 (ns))

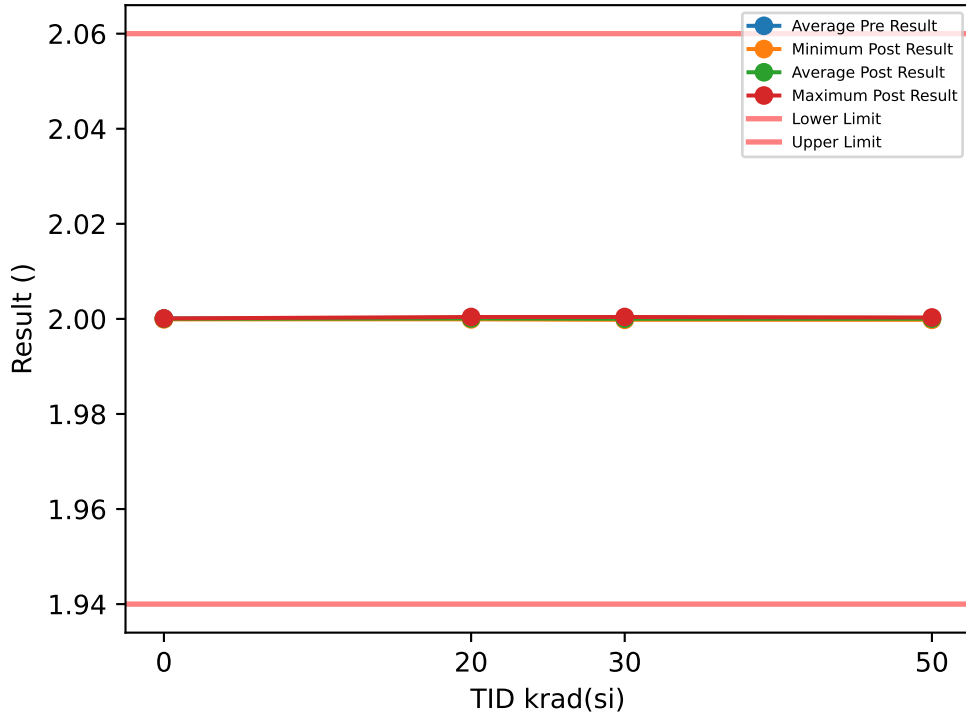
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	70.595	71.481	0.8857
22	20	HDR BIAS	69.016	70.084	1.0679
23	20	HDR BIAS	71.517	71.261	-0.2564
24	20	HDR BIAS	71.562	71.777	0.2157
25	20	HDR BIAS	68.651	69.391	0.7402
26	20	HDR UNBIAS	72.817	71.582	-1.2349
27	20	HDR UNBIAS	71.051	71.25	0.1995
28	20	HDR UNBIAS	68.1	68.589	0.4887
29	20	HDR UNBIAS	70.895	70.578	-0.3171
30	20	HDR UNBIAS	69.216	70.209	0.9931
31	30	HDR BIAS	70.425	72.42	1.995
32	30	HDR BIAS	71.91	72.793	0.8831
33	30	HDR BIAS	69.242	69.748	0.5065
34	30	HDR BIAS	69.182	70.096	0.9135
35	30	HDR BIAS	71.315	72.923	1.6074
36	30	HDR UNBIAS	69.135	69.57	0.4343
37	30	HDR UNBIAS	71.103	71.753	0.6507
38	30	HDR UNBIAS	70.716	71.605	0.8893
39	30	HDR UNBIAS	70.174	71.224	1.0506
40	30	HDR UNBIAS	68.886	69.961	1.0742
41	50	HDR BIAS	71.037	72.21	1.173
42	50	HDR BIAS	70.888	73.203	2.3148
43	50	HDR BIAS	68.234	70.09	1.8557
44	50	HDR BIAS	71.905	72.475	0.5702
45	50	HDR BIAS	70.846	72.714	1.8675
46	50	HDR UNBIAS	70.309	70.555	0.2463
47	50	HDR UNBIAS	71.223	72.214	0.9913
48	50	HDR UNBIAS	71.613	72.058	0.4446
49	50	HDR UNBIAS	69.565	69.802	0.2368
50	50	HDR UNBIAS	70.817	70.902	0.0846
71	0	CORRELATION	71.844	69.3	-2.544
72	0	CORRELATION	69.621	71.013	1.3923
73	0	CORRELATION	69.844	71.045	1.2015

## Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	69.621	70.436	71.844	1.2242	69.3	70.453	71.045	0.99854	-2.544	0.0166	1.3923	2.2196
20	68.1	70.342	72.817	1.5195	68.589	70.62	71.777	1.0493	-1.2349	0.27824	1.0679	0.72275
30	68.886	70.209	71.91	1.06	69.57	71.209	72.923	1.2903	0.4343	1.0005	1.995	0.48143
50	68.234	70.644	71.905	1.0664	69.802	71.622	73.203	1.1843	0.0846	0.97848	2.3148	0.79726



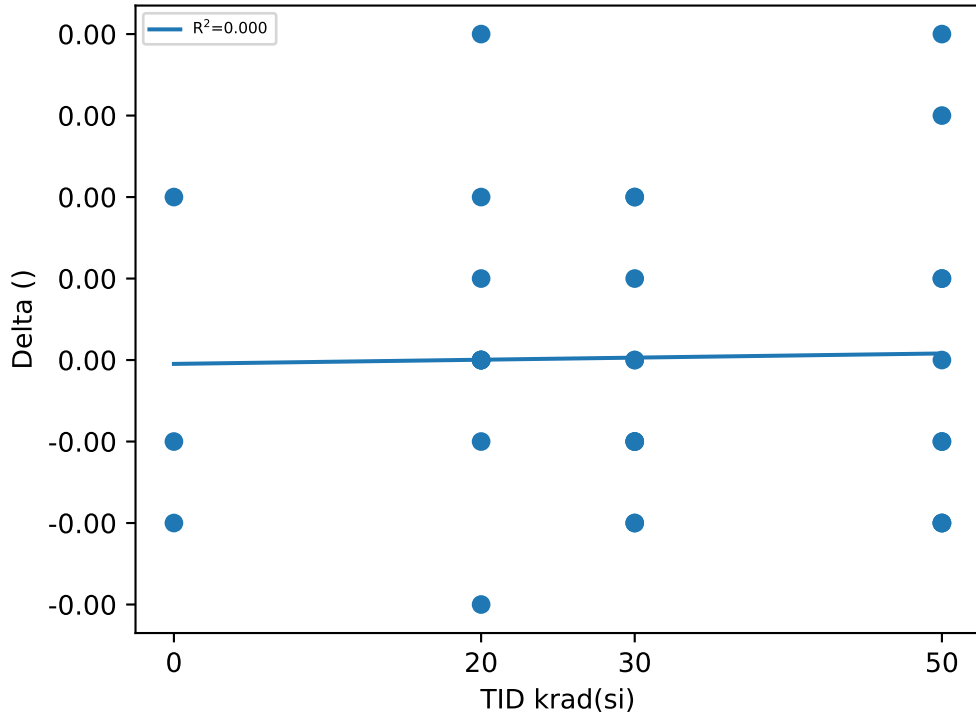
TID vs Result Stats



Test Results (Lower Limit = 1.94, Upper Limit = 2.06 ( ))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.0001	2.0001	0
22	20	HDR BIAS	2.0001	2	-0.0001
23	20	HDR BIAS	2	2.0004	0.0004
24	20	HDR BIAS	2	2.0001	0.0001
25	20	HDR BIAS	2	2	0
26	20	HDR UNBIAS	2.0001	2.0001	0
27	20	HDR UNBIAS	2	2.0002	0.0002
28	20	HDR UNBIAS	2	2	0
29	20	HDR UNBIAS	2.0001	2.0001	0
30	20	HDR UNBIAS	2.0002	1.9999	-0.0003
31	30	HDR BIAS	2.0001	1.9999	-0.0002
32	30	HDR BIAS	1.9999	2	0.0001
33	30	HDR BIAS	1.9998	2	0.0002
34	30	HDR BIAS	2	1.9999	-0.0001
35	30	HDR BIAS	1.9999	2.0001	0.0002
36	30	HDR UNBIAS	2.0005	2.0004	-0.0001
37	30	HDR UNBIAS	2	2	0
38	30	HDR UNBIAS	2.0002	2.0001	-0.0001
39	30	HDR UNBIAS	2	1.9998	-0.0002
40	30	HDR UNBIAS	2	2	0
41	50	HDR BIAS	2.0001	2	-0.0001
42	50	HDR BIAS	2.0001	1.9999	-0.0002
43	50	HDR BIAS	1.9999	2	0.0001
44	50	HDR BIAS	1.9999	2.0003	0.0004
45	50	HDR BIAS	1.9999	2.0002	0.0003
46	50	HDR UNBIAS	2	1.9999	-0.0001
47	50	HDR UNBIAS	2.0001	2.0001	0
48	50	HDR UNBIAS	2	2.0001	0.0001
49	50	HDR UNBIAS	2.0003	2.0001	-0.0002
50	50	HDR UNBIAS	2	1.9998	-0.0002
71	0	CORRELATION	2	1.9999	-0.0001
72	0	CORRELATION	2.0003	2.0001	-0.0002
73	0	CORRELATION	1.9999	2.0001	0.0002

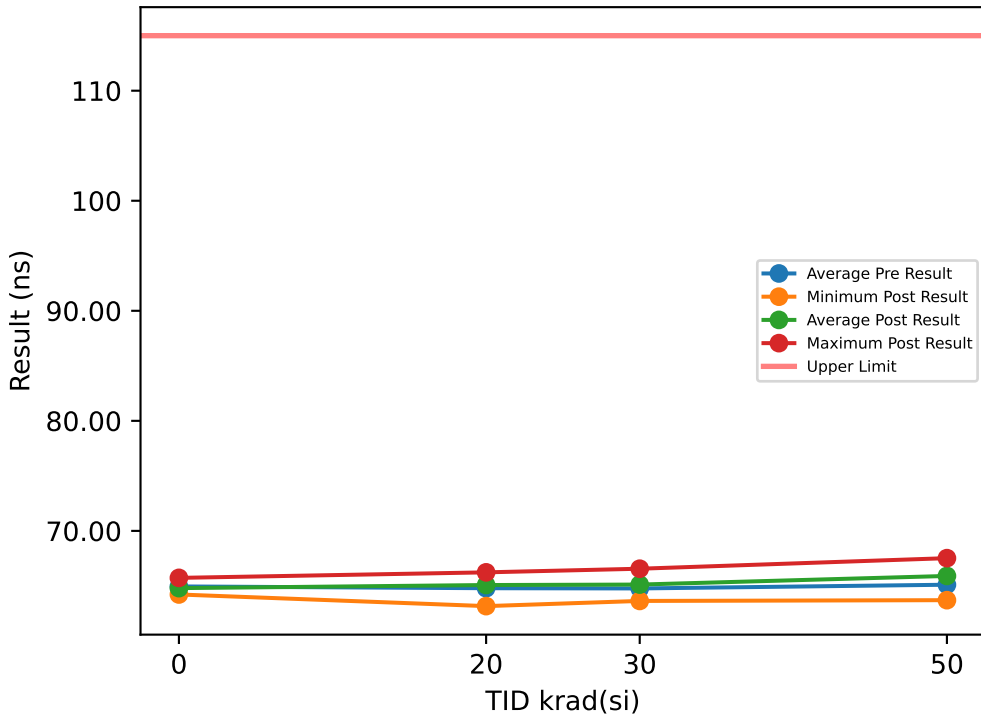
TID vs Post - Pre Exposure Delta



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	1.9999	2.0001	2.0003	0.00020817	1.9999	2	2.0001	0.00011547	-0.0002	-3.3333e-05	0.0002	0.00020817
20	2	2.0001	2.0002	6.9921e-05	1.9999	2.0001	2.0004	0.00013703	-0.0003	3e-05	0.0004	0.00018288
30	1.9998	2	2.0005	0.00019551	1.9998	2	2.0004	0.00016193	-0.0002	-2e-05	0.0002	0.00014757
50	1.9999	2	2.0003	0.00012517	1.9998	2	2.0003	0.00015055	-0.0002	1e-05	0.0004	0.00021318

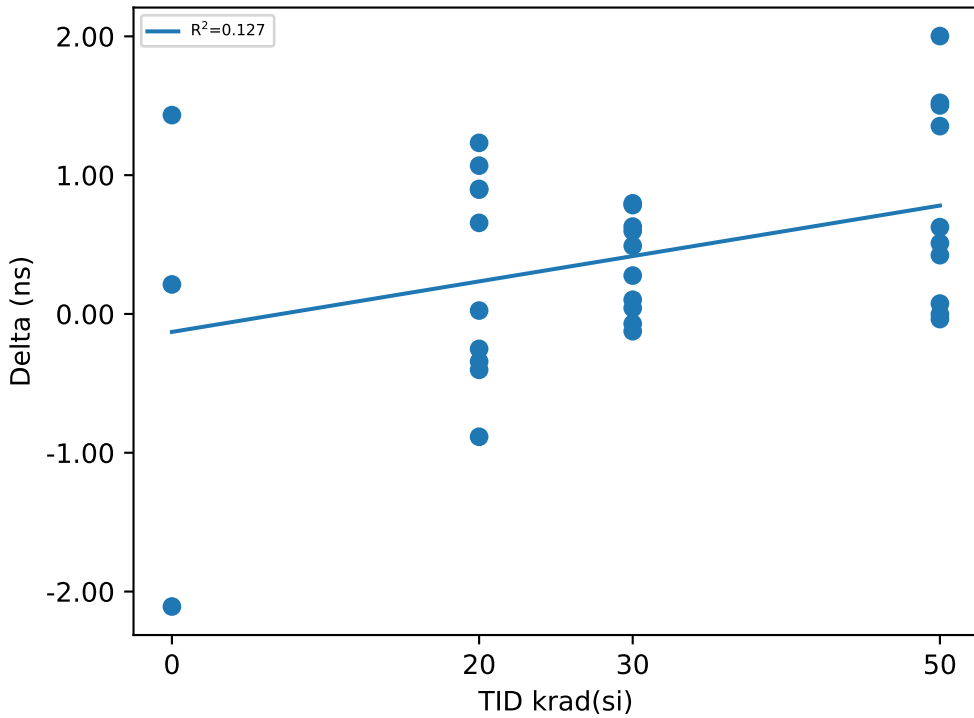
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	64.135	65.367	1.2327
22	20	HDR BIAS	64.239	65.14	0.9007
23	20	HDR BIAS	65.164	66.233	1.0685
24	20	HDR BIAS	66.159	65.757	-0.4025
25	20	HDR BIAS	63.14	63.164	0.0245
26	20	HDR UNBIAS	66.76	65.875	-0.8849
27	20	HDR UNBIAS	64.865	65.76	0.8956
28	20	HDR UNBIAS	62.83	63.487	0.6563
29	20	HDR UNBIAS	66.095	65.843	-0.2517
30	20	HDR UNBIAS	64.519	64.177	-0.3423
31	30	HDR BIAS	65.367	65.858	0.4906
32	30	HDR BIAS	66.381	66.483	0.1023
33	30	HDR BIAS	63.755	64.385	0.6296
34	30	HDR BIAS	63.716	64.501	0.7843
35	30	HDR BIAS	65.765	66.562	0.7971
36	30	HDR UNBIAS	63.732	63.662	-0.0703
37	30	HDR UNBIAS	65.397	65.439	0.0425
38	30	HDR UNBIAS	65.284	65.882	0.5978
39	30	HDR UNBIAS	64.946	64.822	-0.1243
40	30	HDR UNBIAS	63.358	63.635	0.2766
41	50	HDR BIAS	65.968	66.391	0.4233
42	50	HDR BIAS	64.966	66.968	2.002
43	50	HDR BIAS	62.202	63.704	1.5024
44	50	HDR BIAS	65.288	66.641	1.3532
45	50	HDR BIAS	66.001	67.522	1.5212
46	50	HDR UNBIAS	65.092	65.602	0.51
47	50	HDR UNBIAS	66.163	66.161	-0.0017
48	50	HDR UNBIAS	65.699	65.662	-0.0369
49	50	HDR UNBIAS	64.202	64.277	0.0748
50	50	HDR UNBIAS	65.5	66.126	0.6253
71	0	CORRELATION	66.33	64.222	-2.1078
72	0	CORRELATION	64.297	65.73	1.4326
73	0	CORRELATION	64.234	64.447	0.2127

TID vs Post - Pre Exposure Delta

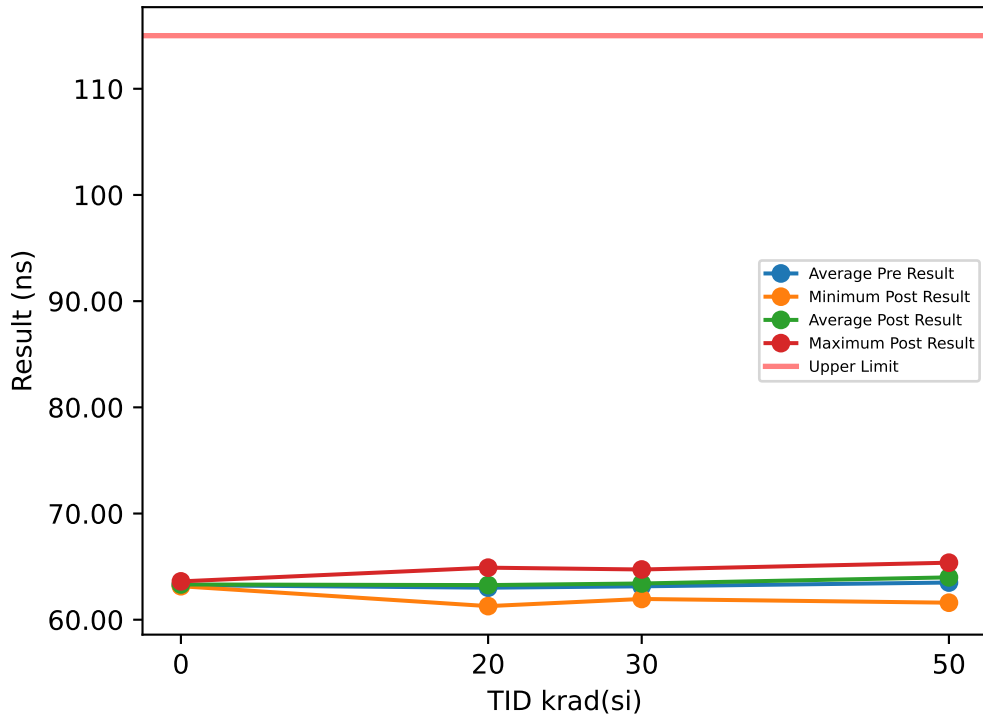


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	64.234	64.954	66.33	1.1923	64.222	64.8	65.73	0.81352	-2.1078	-0.15417	1.4326	1.7985
20	62.83	64.791	66.76	1.2899	63.164	65.08	66.233	1.084	-0.8849	0.28969	1.2327	0.74478
30	63.358	64.77	66.381	1.0456	63.635	65.123	66.562	1.0806	-0.1243	0.35262	0.7971	0.3513
50	62.202	65.108	66.163	1.1771	63.704	65.905	67.522	1.1682	-0.0369	0.79736	2.002	0.7371

Device Test: 28.31 TIMING|DELAY/CS/12/12/0/0/5/1MHz//@CS\_ILIM\_DELAY

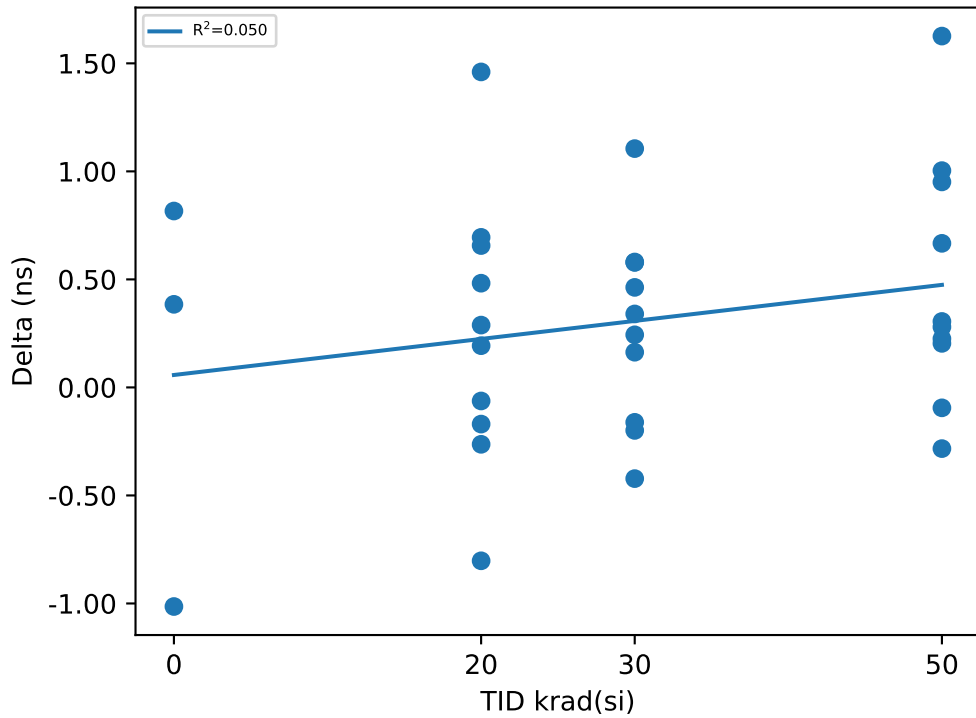
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	62.101	62.583	0.4824
22	20	HDR BIAS	62.737	62.567	-0.1697
23	20	HDR BIAS	64.04	63.977	-0.0627
24	20	HDR BIAS	63.441	64.902	1.4603
25	20	HDR BIAS	60.586	61.281	0.6946
26	20	HDR UNBIAS	64.119	64.775	0.6567
27	20	HDR UNBIAS	63.964	64.157	0.1932
28	20	HDR UNBIAS	61.963	61.7	-0.2633
29	20	HDR UNBIAS	64.583	63.781	-0.8025
30	20	HDR UNBIAS	62.609	62.898	0.2885
31	30	HDR BIAS	63.051	64.156	1.1054
32	30	HDR BIAS	64.718	64.557	-0.1615
33	30	HDR BIAS	61.978	62.222	0.2435
34	30	HDR BIAS	62.117	62.28	0.1629
35	30	HDR BIAS	65.153	64.731	-0.4221
36	30	HDR UNBIAS	62.667	62.468	-0.199
37	30	HDR UNBIAS	63.72	64.183	0.463
38	30	HDR UNBIAS	63.596	64.175	0.5785
39	30	HDR UNBIAS	62.825	63.406	0.5805
40	30	HDR UNBIAS	61.614	61.954	0.3401
41	50	HDR BIAS	63.744	65.371	1.6262
42	50	HDR BIAS	64.209	65.212	1.0035
43	50	HDR BIAS	60.651	61.602	0.9512
44	50	HDR BIAS	64.483	64.788	0.3053
45	50	HDR BIAS	63.794	64.461	0.6669
46	50	HDR UNBIAS	63.443	63.159	-0.2832
47	50	HDR UNBIAS	64.456	64.361	-0.0945
48	50	HDR UNBIAS	64.496	64.776	0.2799
49	50	HDR UNBIAS	62.097	62.3	0.2039
50	50	HDR UNBIAS	63.627	63.853	0.2255
71	0	CORRELATION	64.209	63.195	-1.0141
72	0	CORRELATION	62.336	63.153	0.8165
73	0	CORRELATION	63.226	63.61	0.3846

TID vs Post - Pre Exposure Delta

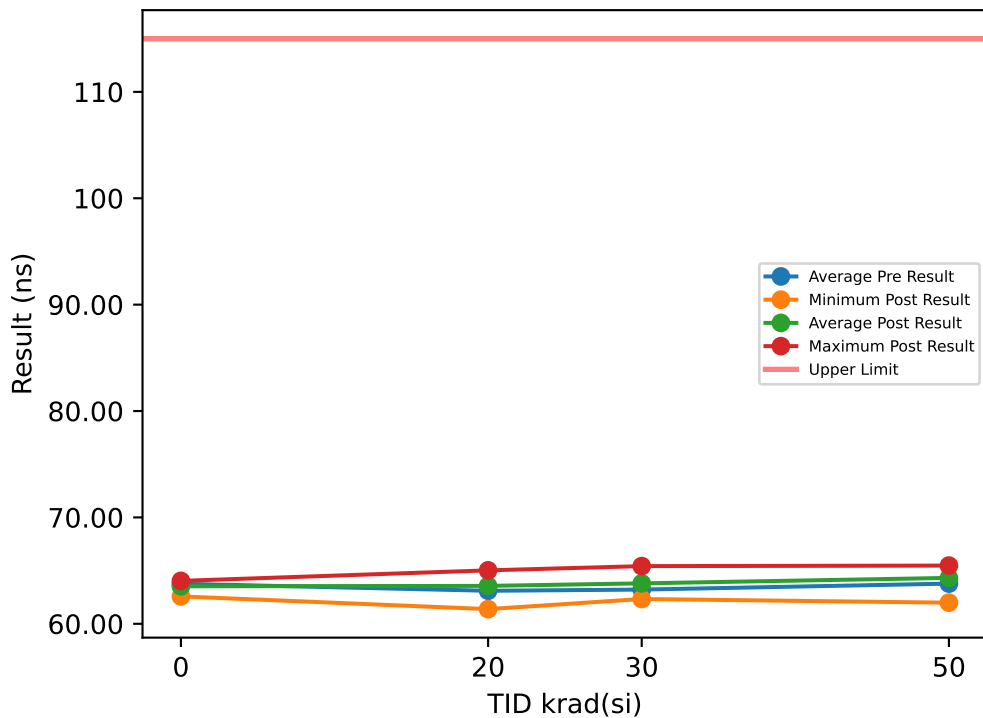


Test Statistics (ns)

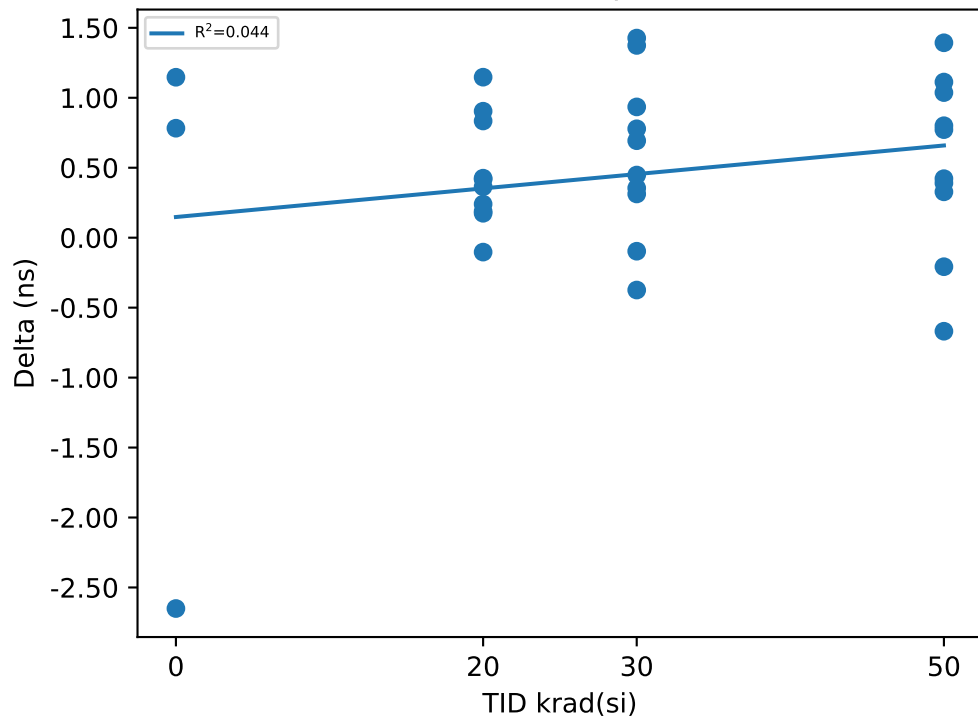
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.336	63.257	64.209	0.93664	63.153	63.319	63.61	0.25291	-1.0141	0.062333	0.8165	0.9569
20	60.586	63.014	64.583	1.2424	61.281	63.262	64.902	1.2472	-0.8025	0.24775	1.4603	0.62643
30	61.614	63.144	65.153	1.1615	61.954	63.413	64.731	1.0798	-0.4221	0.26913	1.1054	0.4508
50	60.651	63.5	64.496	1.2304	61.602	63.988	65.371	1.2595	-0.2832	0.48847	1.6262	0.57428

# Device Test: 28.32 TIMING|DELAY/CS/14/14/0/0/5/1MHz//@CS\_ILIM\_DELAY

## TID vs Result Stats



## TID vs Post - Pre Exposure Delta



## Test Results (Upper Limit = 115.0 (ns))

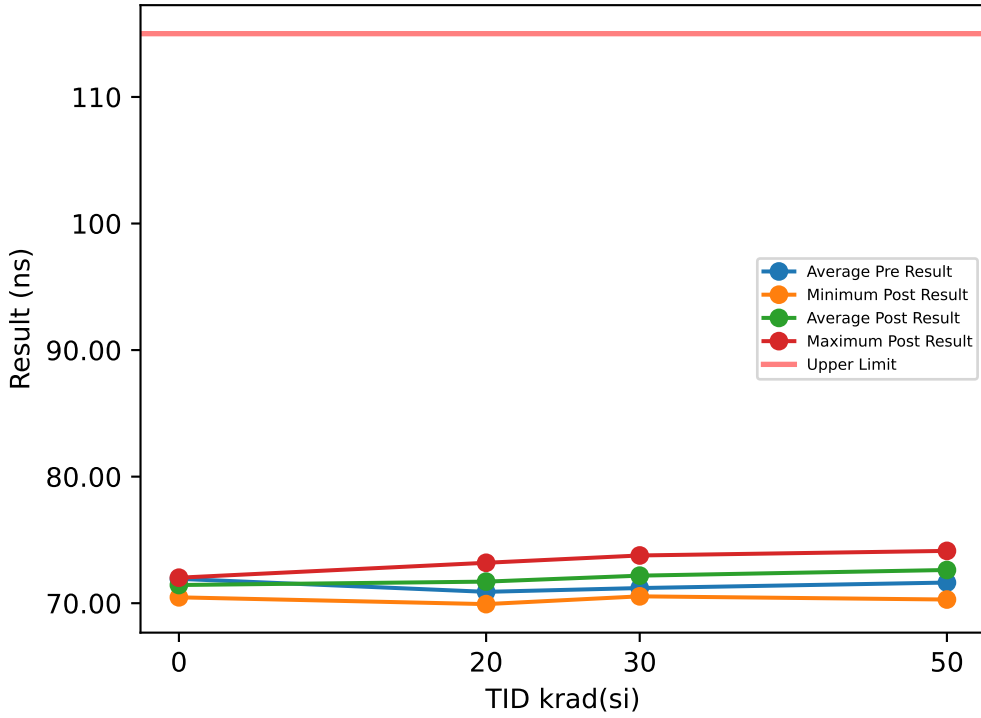
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	62.949	62.846	-0.103
22	20	HDR BIAS	63.11	63.536	0.4254
23	20	HDR BIAS	63.367	63.541	0.1745
24	20	HDR BIAS	63.9	64.804	0.904
25	20	HDR BIAS	61.192	61.38	0.188
26	20	HDR UNBIAS	64.189	65.023	0.8341
27	20	HDR UNBIAS	63.541	63.781	0.2401
28	20	HDR UNBIAS	62.209	62.573	0.3641
29	20	HDR UNBIAS	64.246	64.664	0.4179
30	20	HDR UNBIAS	62.346	63.493	1.1472
31	30	HDR BIAS	63.254	63.948	0.6932
32	30	HDR BIAS	64.487	65.422	0.9347
33	30	HDR BIAS	62.09	62.869	0.7784
34	30	HDR BIAS	62.426	63.801	1.3742
35	30	HDR BIAS	64.575	65.023	0.4478
36	30	HDR UNBIAS	61.977	62.331	0.3546
37	30	HDR UNBIAS	64	63.626	-0.3741
38	30	HDR UNBIAS	63.874	63.777	-0.0967
39	30	HDR UNBIAS	63.658	63.971	0.3126
40	30	HDR UNBIAS	61.81	63.237	1.4267
41	50	HDR BIAS	63.897	65.29	1.3931
42	50	HDR BIAS	64.61	64.938	0.3278
43	50	HDR BIAS	60.949	61.986	1.0371
44	50	HDR BIAS	64.735	64.528	-0.2074
45	50	HDR BIAS	64.672	65.472	0.8003
46	50	HDR UNBIAS	63.55	64.323	0.7723
47	50	HDR UNBIAS	64.034	64.425	0.3906
48	50	HDR UNBIAS	63.968	65.08	1.1124
49	50	HDR UNBIAS	62.431	62.853	0.4218
50	50	HDR UNBIAS	64.918	64.249	-0.6686
71	0	CORRELATION	65.226	62.575	-2.6504
72	0	CORRELATION	63.179	63.962	0.7825
73	0	CORRELATION	62.888	64.035	1.1468

## Test Statistics (ns)

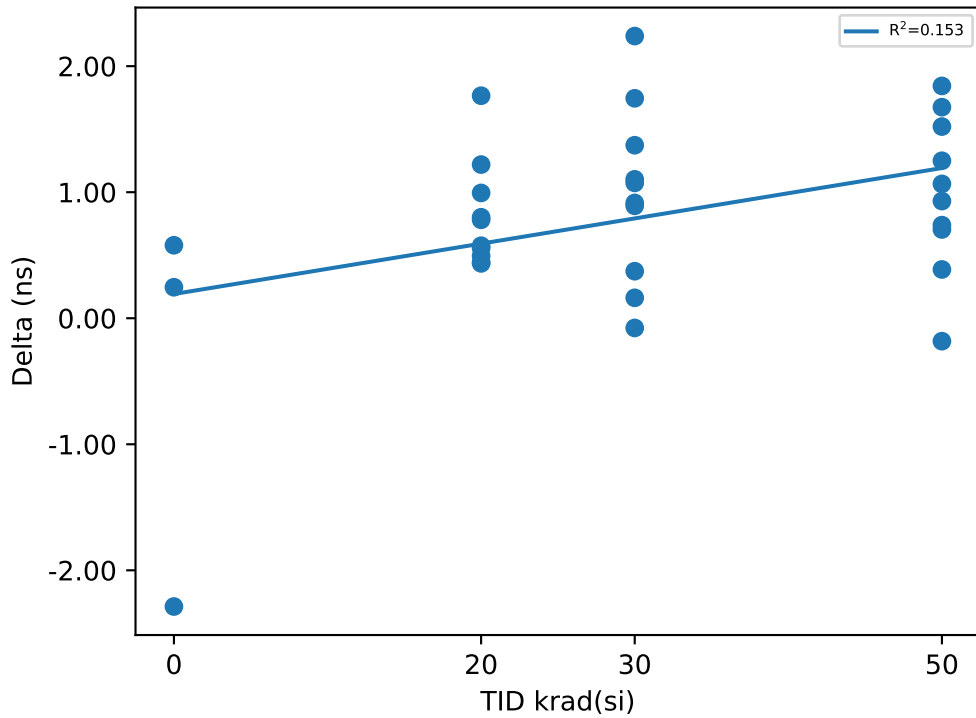
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.888	63.764	65.226	1.274	62.575	63.524	64.035	0.82235	-2.6504	-0.24037	1.1468	2.0951
20	61.192	63.105	64.246	0.96781	61.38	63.564	65.023	1.1154	-0.103	0.45923	1.1472	0.38619
30	61.81	63.215	64.575	1.0599	62.331	63.8	65.422	0.91593	-0.3741	0.58514	1.4267	0.58055
50	60.949	63.776	64.918	1.2335	61.986	64.314	65.472	1.0999	-0.6686	0.53794	1.3931	0.62582

# Device Test: 28.33 TIMING|DELAY/CS/4.5/4.5/0/1000/4.5/100kHz//@CS\_ILIM\_DELAY

### TID vs Result Stats



### TID vs Post - Pre Exposure Delta



### Test Results (Upper Limit = 115.0 (ns))

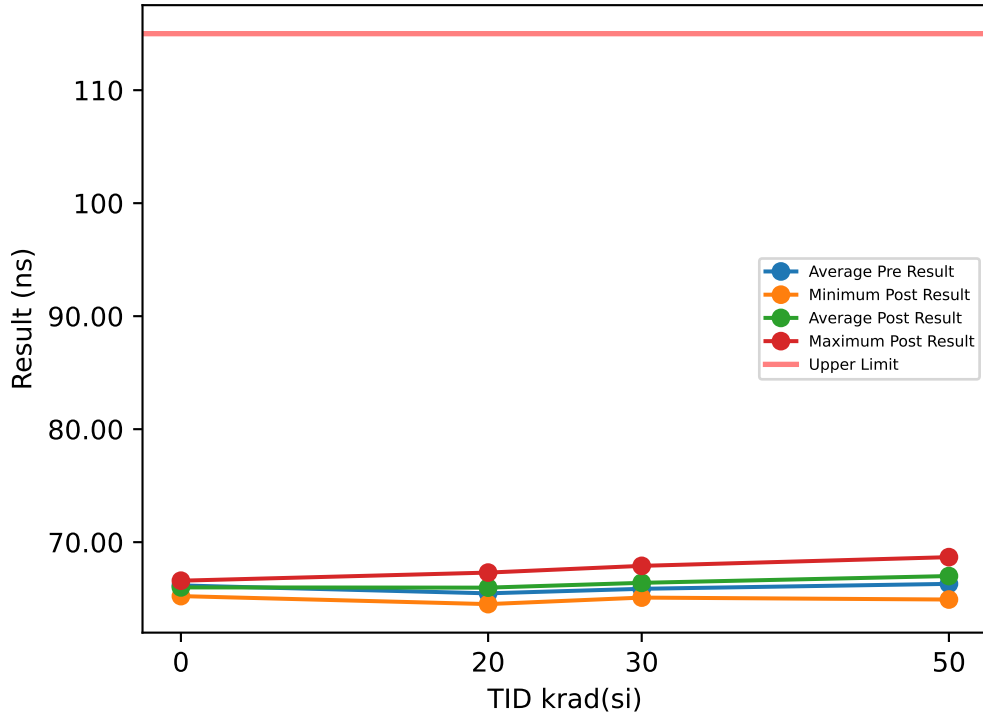
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	70.615	71.19	0.5754
22	20	HDR BIAS	70.972	71.966	0.9942
23	20	HDR BIAS	71.502	72.283	0.7811
24	20	HDR BIAS	71.916	72.361	0.4443
25	20	HDR BIAS	69.062	70.828	1.7656
26	20	HDR UNBIAS	72.392	73.194	0.8012
27	20	HDR UNBIAS	71.209	71.644	0.4351
28	20	HDR UNBIAS	69.433	69.928	0.4945
29	20	HDR UNBIAS	71.241	72.461	1.2192
30	20	HDR UNBIAS	70.639	71.194	0.5552
31	30	HDR BIAS	72.399	73.772	1.3727
32	30	HDR BIAS	71.971	73.716	1.745
33	30	HDR BIAS	70.62	71.512	0.8918
34	30	HDR BIAS	69.673	71.912	2.2387
35	30	HDR BIAS	72.721	73.094	0.3732
36	30	HDR UNBIAS	69.44	70.542	1.102
37	30	HDR UNBIAS	72.256	72.179	-0.0772
38	30	HDR UNBIAS	71.372	71.534	0.162
39	30	HDR UNBIAS	71.479	72.394	0.9148
40	30	HDR UNBIAS	70.043	71.117	1.0737
41	50	HDR BIAS	71.727	72.792	1.0658
42	50	HDR BIAS	72.571	73.82	1.2495
43	50	HDR BIAS	69.361	70.291	0.9297
44	50	HDR BIAS	72.29	74.134	1.8432
45	50	HDR BIAS	72.02	73.694	1.6748
46	50	HDR UNBIAS	71.007	71.711	0.7042
47	50	HDR UNBIAS	72.716	72.534	-0.1821
48	50	HDR UNBIAS	72.358	73.097	0.7387
49	50	HDR UNBIAS	70.663	71.05	0.3869
50	50	HDR UNBIAS	71.6	73.121	1.5207
71	0	CORRELATION	72.752	70.465	-2.2873
72	0	CORRELATION	71.437	72.016	0.579
73	0	CORRELATION	71.584	71.83	0.246

### Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	71.437	71.924	72.752	0.72062	70.465	71.437	72.016	0.84699	-2.2873	-0.48743	0.579	1.5676
20	69.062	70.898	72.392	1.0283	69.928	71.705	73.194	0.94726	0.4351	0.80658	1.7656	0.42284
30	69.44	71.197	72.721	1.1865	70.542	72.177	73.772	1.0812	-0.0772	0.97967	2.2387	0.70824
50	69.361	71.631	72.716	1.0362	70.291	72.624	74.134	1.2524	-0.1821	0.99314	1.8432	0.61802

# Device Test: 28.34 TIMING|DELAY/CS/5/5/0/1000/5/100kHz//@CS\_ILIM\_DELAY

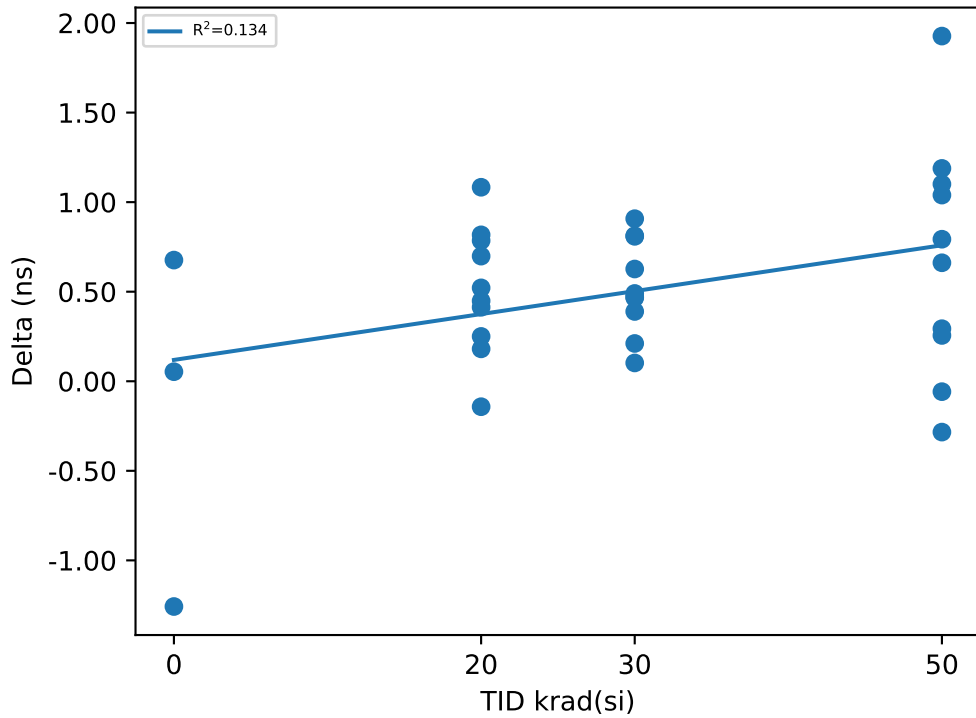
### TID vs Result Stats



### Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	65.092	65.878	0.7854
22	20	HDR BIAS	65.44	65.69	0.2503
23	20	HDR BIAS	66.221	66.743	0.5214
24	20	HDR BIAS	66.225	67.308	1.0831
25	20	HDR BIAS	64.324	65.141	0.8174
26	20	HDR UNBIAS	66.702	66.883	0.1809
27	20	HDR UNBIAS	65.651	66.064	0.4131
28	20	HDR UNBIAS	64.069	64.518	0.4488
29	20	HDR UNBIAS	65.595	66.294	0.6986
30	20	HDR UNBIAS	65.391	65.249	-0.1421
31	30	HDR BIAS	66.656	67.283	0.6267
32	30	HDR BIAS	67.091	67.903	0.8124
33	30	HDR BIAS	64.879	65.35	0.4708
34	30	HDR BIAS	64.74	65.55	0.8091
35	30	HDR BIAS	67.311	67.522	0.211
36	30	HDR UNBIAS	64.743	65.133	0.3896
37	30	HDR UNBIAS	66.81	66.912	0.1023
38	30	HDR UNBIAS	65.911	66.818	0.9076
39	30	HDR UNBIAS	65.988	66.454	0.466
40	30	HDR UNBIAS	64.606	65.096	0.4902
41	50	HDR BIAS	66.377	67.417	1.0394
42	50	HDR BIAS	66.748	67.936	1.1883
43	50	HDR BIAS	63.824	64.924	1.1006
44	50	HDR BIAS	66.997	67.659	0.6615
45	50	HDR BIAS	66.748	68.675	1.9271
46	50	HDR UNBIAS	65.93	66.723	0.793
47	50	HDR UNBIAS	67.163	67.419	0.2558
48	50	HDR UNBIAS	67.038	66.755	-0.2838
49	50	HDR UNBIAS	65.394	65.336	-0.0581
50	50	HDR UNBIAS	66.884	67.177	0.2934
71	0	CORRELATION	66.485	65.227	-1.2576
72	0	CORRELATION	65.914	66.591	0.6765
73	0	CORRELATION	66.12	66.174	0.0534

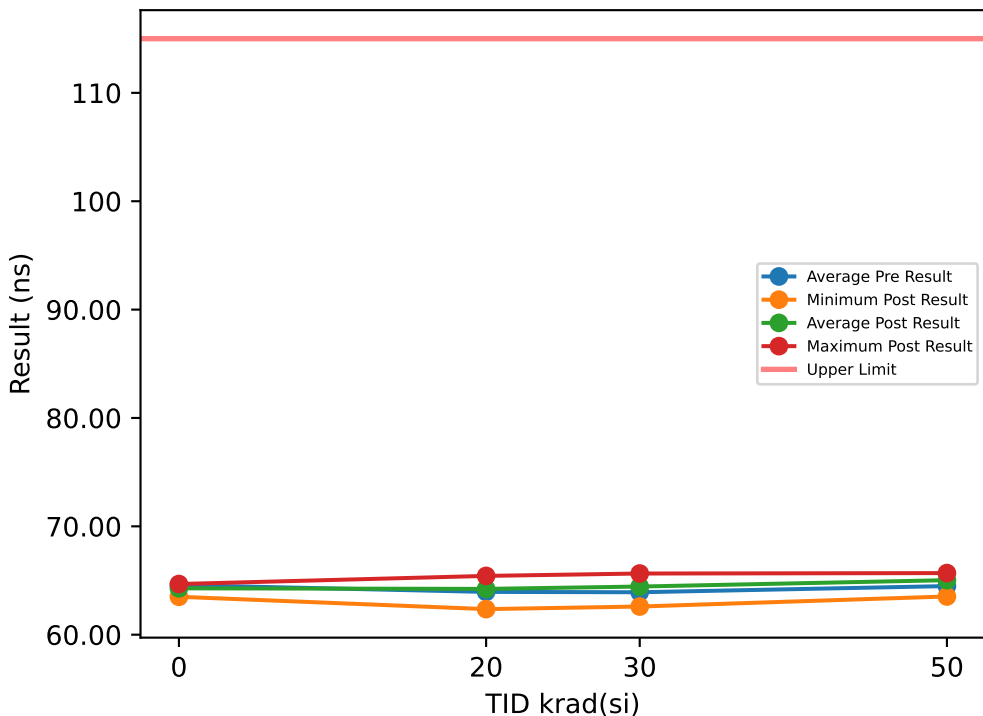
### TID vs Post - Pre Exposure Delta



### Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	65.914	66.173	66.485	0.28905	65.227	65.997	66.591	0.69857	-1.2576	-0.1759	0.6765	0.98723
20	64.069	65.471	66.702	0.82501	64.518	65.977	67.308	0.86511	-0.1421	0.50569	1.0831	0.35721
30	64.606	65.873	67.311	1.0651	65.096	66.402	67.903	1.0473	0.1023	0.52857	0.9076	0.26313
50	63.824	66.31	67.163	1.0336	64.924	67.002	68.675	1.1408	-0.2838	0.69172	1.9271	0.66119

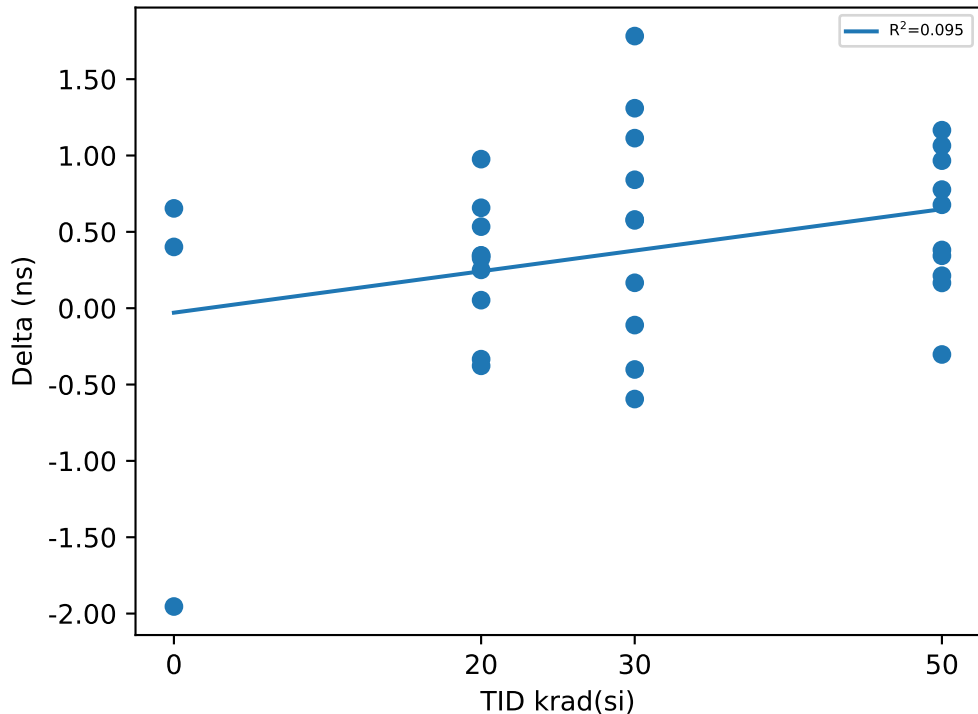
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	63.87	64.198	0.3275
22	20	HDR BIAS	64.147	63.813	-0.3338
23	20	HDR BIAS	64.579	64.83	0.251
24	20	HDR BIAS	65.079	65.425	0.3463
25	20	HDR BIAS	61.827	62.361	0.5341
26	20	HDR UNBIAS	64.849	64.901	0.0526
27	20	HDR UNBIAS	63.953	64.611	0.6577
28	20	HDR UNBIAS	62.53	63.507	0.9763
29	20	HDR UNBIAS	65.058	65.401	0.3432
30	20	HDR UNBIAS	63.603	63.226	-0.3774
31	30	HDR BIAS	64.262	65.572	1.3097
32	30	HDR BIAS	64.804	65.645	0.8411
33	30	HDR BIAS	62.544	63.658	1.1137
34	30	HDR BIAS	63.343	63.509	0.1664
35	30	HDR BIAS	65.66	65.549	-0.1106
36	30	HDR UNBIAS	63	62.599	-0.4014
37	30	HDR UNBIAS	64.79	65.365	0.5751
38	30	HDR UNBIAS	64.95	64.355	-0.595
39	30	HDR UNBIAS	64.072	64.653	0.5811
40	30	HDR UNBIAS	61.742	63.524	1.7822
41	50	HDR BIAS	64.955	65.121	0.1655
42	50	HDR BIAS	65.196	65.578	0.3814
43	50	HDR BIAS	62.361	63.527	1.1659
44	50	HDR BIAS	64.871	65.648	0.7767
45	50	HDR BIAS	64.816	65.493	0.6773
46	50	HDR UNBIAS	64.306	65.272	0.9664
47	50	HDR UNBIAS	65.472	65.685	0.2128
48	50	HDR UNBIAS	65.343	65.04	-0.3031
49	50	HDR UNBIAS	62.581	63.645	1.0645
50	50	HDR UNBIAS	64.959	65.303	0.3434
71	0	CORRELATION	65.453	63.499	-1.9538
72	0	CORRELATION	64.009	64.663	0.6537
73	0	CORRELATION	64.274	64.675	0.4013

TID vs Post - Pre Exposure Delta

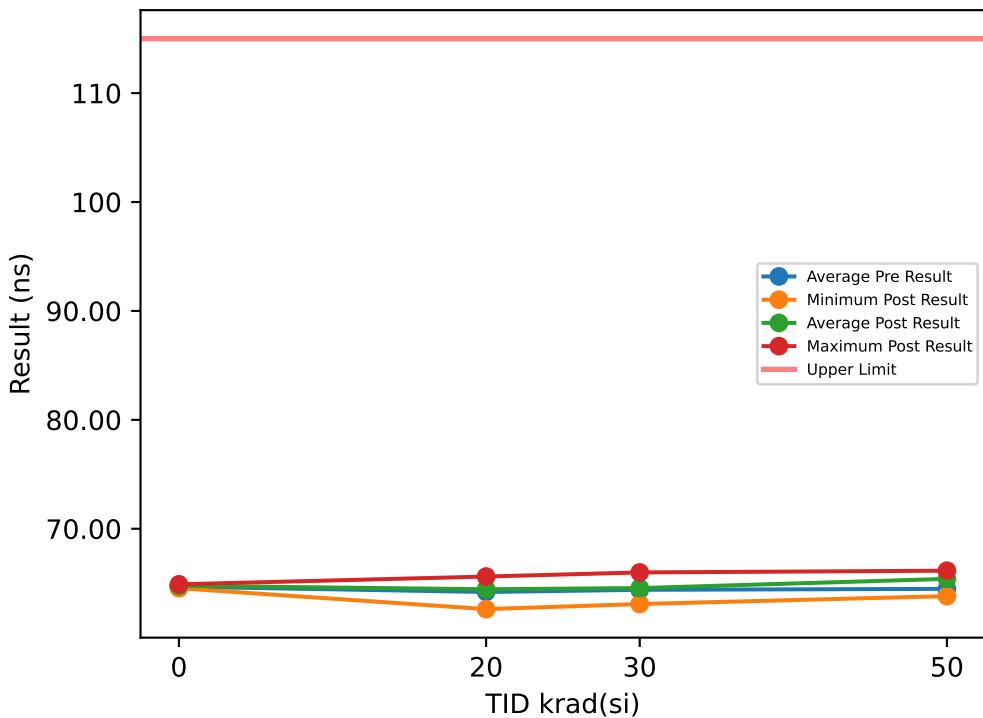


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	64.009	64.579	65.453	0.76838	63.499	64.279	64.675	0.67573	-1.9538	-0.2996	0.6537	1.4381
20	61.827	63.95	65.079	1.0748	62.361	64.227	65.425	0.99764	-0.3774	0.27775	0.9763	0.41688
30	61.742	63.917	65.66	1.2285	62.599	64.443	65.645	1.0843	-0.595	0.52623	1.7822	0.76693
50	62.361	64.486	65.472	1.11	63.527	65.031	65.685	0.79175	-0.3031	0.54508	1.1659	0.4649



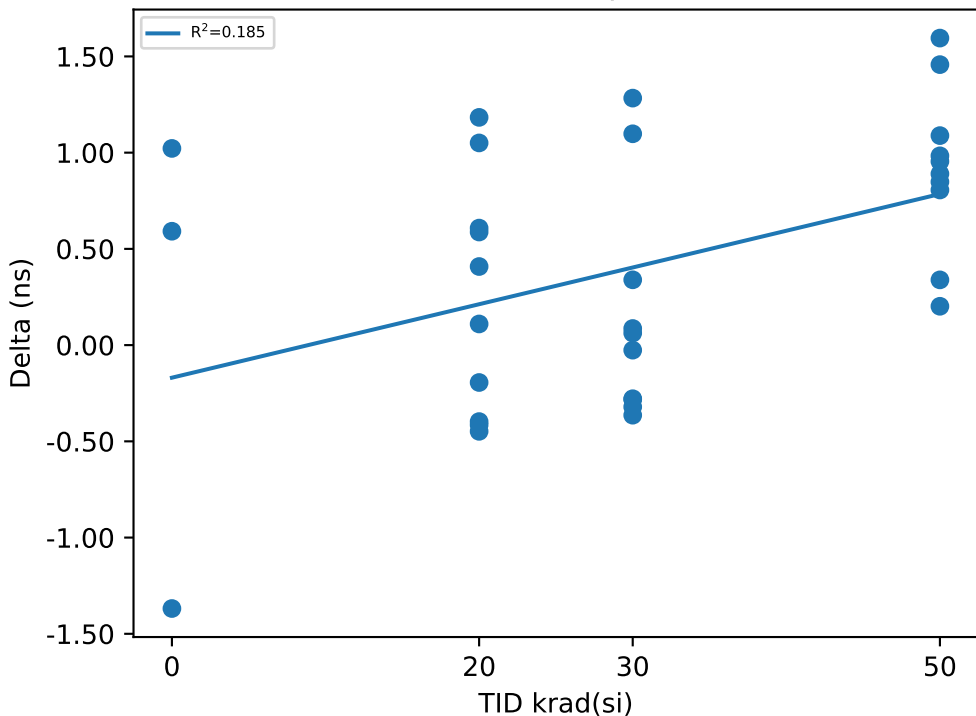
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	63.403	64.587	1.1833
22	20	HDR BIAS	64.158	64.268	0.1099
23	20	HDR BIAS	64.891	64.493	-0.3973
24	20	HDR BIAS	65.022	65.61	0.5876
25	20	HDR BIAS	62.011	62.619	0.608
26	20	HDR UNBIAS	65.681	65.266	-0.4146
27	20	HDR UNBIAS	65.099	65.507	0.4084
28	20	HDR UNBIAS	63.306	63.111	-0.1942
29	20	HDR UNBIAS	65.296	64.848	-0.448
30	20	HDR UNBIAS	63.063	64.114	1.0505
31	30	HDR BIAS	64.705	65.989	1.2834
32	30	HDR BIAS	65.561	65.535	-0.0262
33	30	HDR BIAS	63.212	63.275	0.0626
34	30	HDR BIAS	62.844	63.942	1.098
35	30	HDR BIAS	66.167	65.889	-0.2786
36	30	HDR UNBIAS	63.407	63.086	-0.3209
37	30	HDR UNBIAS	64.946	65.033	0.0863
38	30	HDR UNBIAS	65.068	64.704	-0.3641
39	30	HDR UNBIAS	64.587	64.305	-0.2825
40	30	HDR UNBIAS	63.412	63.751	0.3393
41	50	HDR BIAS	64.577	65.425	0.8483
42	50	HDR BIAS	64.773	65.728	0.9546
43	50	HDR BIAS	62.724	63.813	1.0886
44	50	HDR BIAS	64.69	66.148	1.4574
45	50	HDR BIAS	64.829	65.813	0.9835
46	50	HDR UNBIAS	63.944	65.539	1.5953
47	50	HDR UNBIAS	65.595	65.934	0.339
48	50	HDR UNBIAS	64.591	65.397	0.806
49	50	HDR UNBIAS	63.655	64.545	0.8899
50	50	HDR UNBIAS	65.416	65.618	0.2018
71	0	CORRELATION	65.907	64.538	-1.3686
72	0	CORRELATION	64.303	64.895	0.5917
73	0	CORRELATION	63.833	64.855	1.022

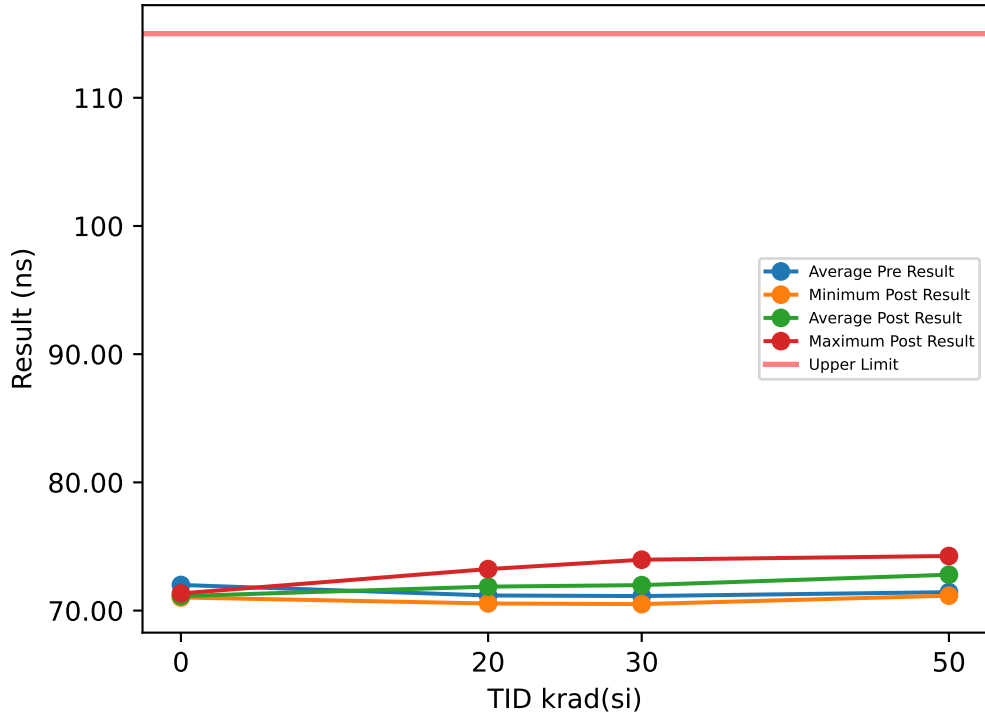
TID vs Post - Pre Exposure Delta



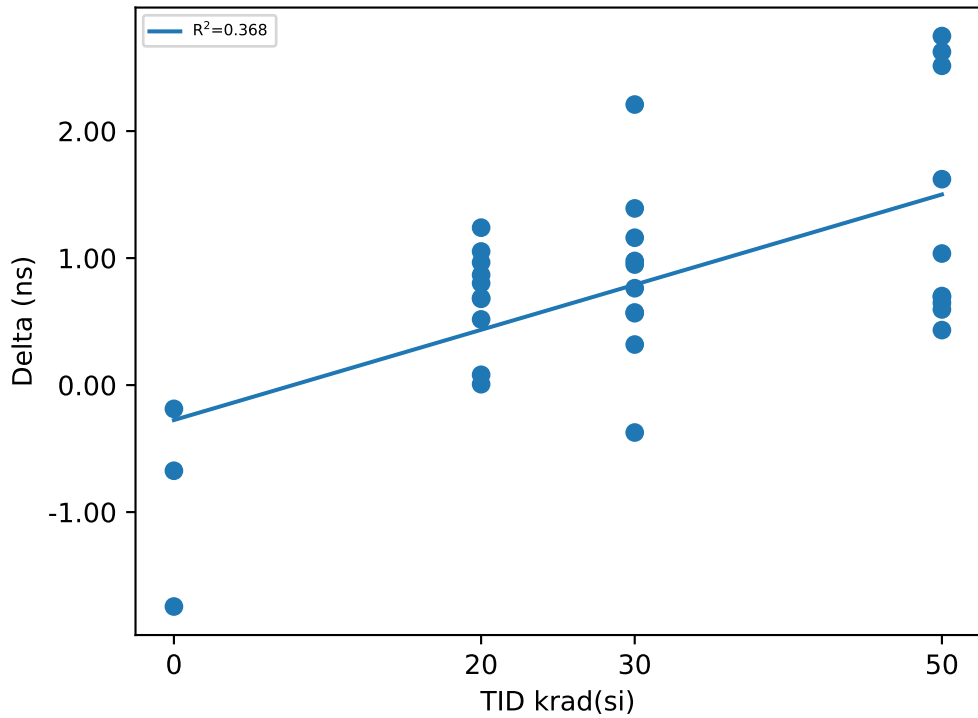
Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.833	64.681	65.907	1.0872	64.538	64.763	64.895	0.19555	-1.3686	0.0817	1.022	1.2743
20	62.011	64.193	65.681	1.1959	62.619	64.442	65.61	0.9773	-0.448	0.24936	1.1833	0.60955
30	62.844	64.391	66.167	1.1126	63.086	64.551	65.989	1.0502	-0.3641	0.15973	1.2834	0.58857
50	62.724	64.48	65.595	0.84613	63.813	65.396	66.148	0.70234	0.2018	0.91644	1.5953	0.42827

TID vs Result Stats



TID vs Post - Pre Exposure Delta



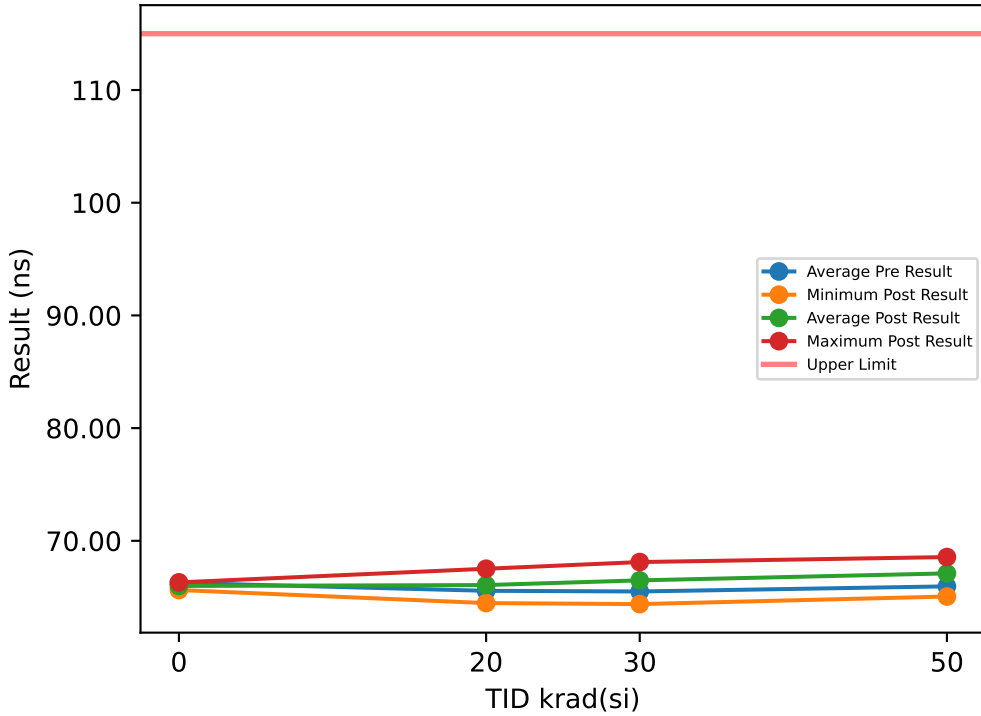
Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	71.461	72.14	0.6795
22	20	HDR BIAS	70.997	71.004	0.0069
23	20	HDR BIAS	72.092	72.894	0.8023
24	20	HDR BIAS	72.037	73.003	0.966
25	20	HDR BIAS	69.686	70.553	0.8676
26	20	HDR UNBIAS	72.183	73.235	1.0522
27	20	HDR UNBIAS	71.083	72.323	1.2396
28	20	HDR UNBIAS	70.17	70.687	0.5172
29	20	HDR UNBIAS	71.504	71.585	0.0811
30	20	HDR UNBIAS	70.574	71.26	0.6856
31	30	HDR BIAS	71.759	73.968	2.2091
32	30	HDR BIAS	72.545	73.705	1.1604
33	30	HDR BIAS	69.313	70.704	1.3912
34	30	HDR BIAS	70.478	71.241	0.7628
35	30	HDR BIAS	72.086	73.035	0.9493
36	30	HDR UNBIAS	70.184	70.504	0.3194
37	30	HDR UNBIAS	71.601	72.167	0.5661
38	30	HDR UNBIAS	71.998	71.625	-0.3734
39	30	HDR UNBIAS	70.852	71.424	0.5719
40	30	HDR UNBIAS	70.5	71.478	0.9775
41	50	HDR BIAS	71.146	73.66	2.514
42	50	HDR BIAS	71.633	74.258	2.6243
43	50	HDR BIAS	68.538	71.286	2.7481
44	50	HDR BIAS	72.592	73.293	0.701
45	50	HDR BIAS	72.644	73.68	1.0359
46	50	HDR UNBIAS	70.976	72.597	1.6213
47	50	HDR UNBIAS	72.331	73.025	0.6943
48	50	HDR UNBIAS	72.471	73.118	0.6472
49	50	HDR UNBIAS	70.729	71.162	0.4331
50	50	HDR UNBIAS	71.297	71.893	0.5956
71	0	CORRELATION	72.772	71.028	-1.7434
72	0	CORRELATION	71.524	71.337	-0.1872
73	0	CORRELATION	71.699	71.024	-0.6744

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	71.524	71.998	72.772	0.67544	71.024	71.13	71.337	0.17948	-1.7434	-0.86833	-0.1872	0.79602
20	69.686	71.179	72.183	0.84462	70.553	71.869	73.235	0.98956	0.0069	0.6898	1.2396	0.39735
30	69.313	71.132	72.545	1.021	70.504	71.985	73.968	1.2073	-0.3734	0.85343	2.2091	0.68363
50	68.538	71.436	72.644	1.2436	71.162	72.797	74.258	1.0473	0.4331	1.3615	2.7481	0.93448

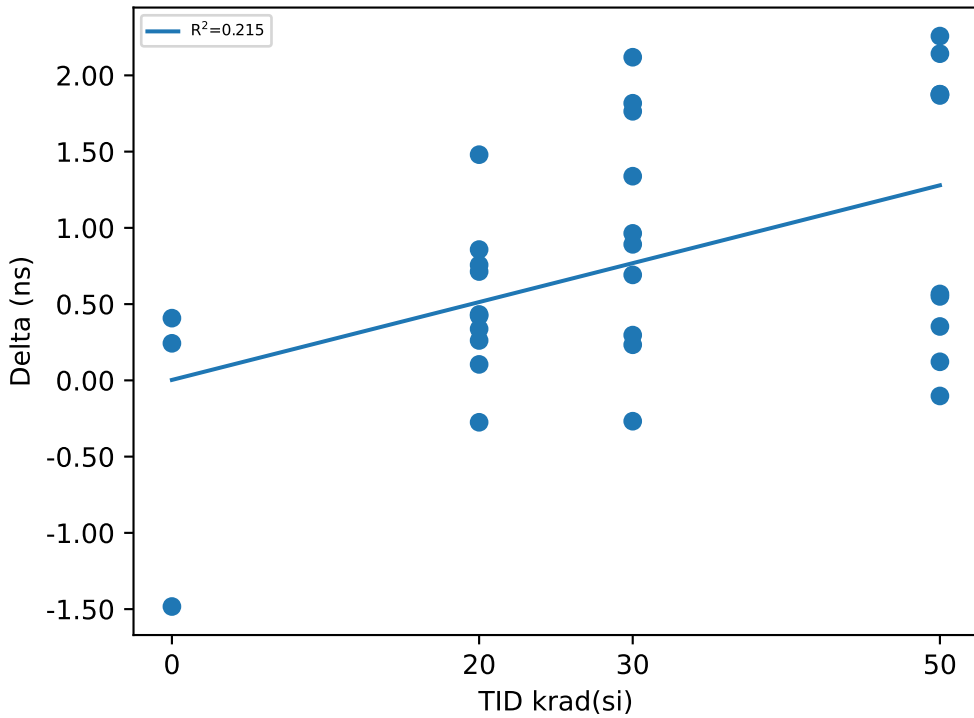
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	65.627	65.732	0.1047
22	20	HDR BIAS	64.729	66.209	1.48
23	20	HDR BIAS	66.026	66.458	0.4323
24	20	HDR BIAS	65.66	66.518	0.8578
25	20	HDR BIAS	64.185	64.942	0.7568
26	20	HDR UNBIAS	67.26	67.521	0.2616
27	20	HDR UNBIAS	66.387	66.81	0.4233
28	20	HDR UNBIAS	64.75	64.475	-0.2748
29	20	HDR UNBIAS	65.714	66.427	0.7136
30	20	HDR UNBIAS	65.305	65.642	0.3375
31	30	HDR BIAS	66.157	67.121	0.9639
32	30	HDR BIAS	67.07	67.962	0.892
33	30	HDR BIAS	64.15	65.968	1.8172
34	30	HDR BIAS	64.119	66.238	2.1189
35	30	HDR BIAS	66.35	68.115	1.7643
36	30	HDR UNBIAS	64.086	64.383	0.2968
37	30	HDR UNBIAS	66.456	66.689	0.2335
38	30	HDR UNBIAS	66.518	66.25	-0.2678
39	30	HDR UNBIAS	65.179	66.518	1.3388
40	30	HDR UNBIAS	64.961	65.652	0.6917
41	50	HDR BIAS	66.172	68.04	1.868
42	50	HDR BIAS	66.239	68.497	2.2576
43	50	HDR BIAS	63.181	65.058	1.8766
44	50	HDR BIAS	66.15	68.292	2.1422
45	50	HDR BIAS	66.681	68.557	1.876
46	50	HDR UNBIAS	66.034	66.155	0.1218
47	50	HDR UNBIAS	66.347	66.913	0.5667
48	50	HDR UNBIAS	66.816	66.714	-0.1023
49	50	HDR UNBIAS	65.236	65.59	0.3534
50	50	HDR UNBIAS	66.727	67.277	0.5505
71	0	CORRELATION	67.118	65.635	-1.4829
72	0	CORRELATION	65.63	66.038	0.408
73	0	CORRELATION	66.068	66.311	0.243

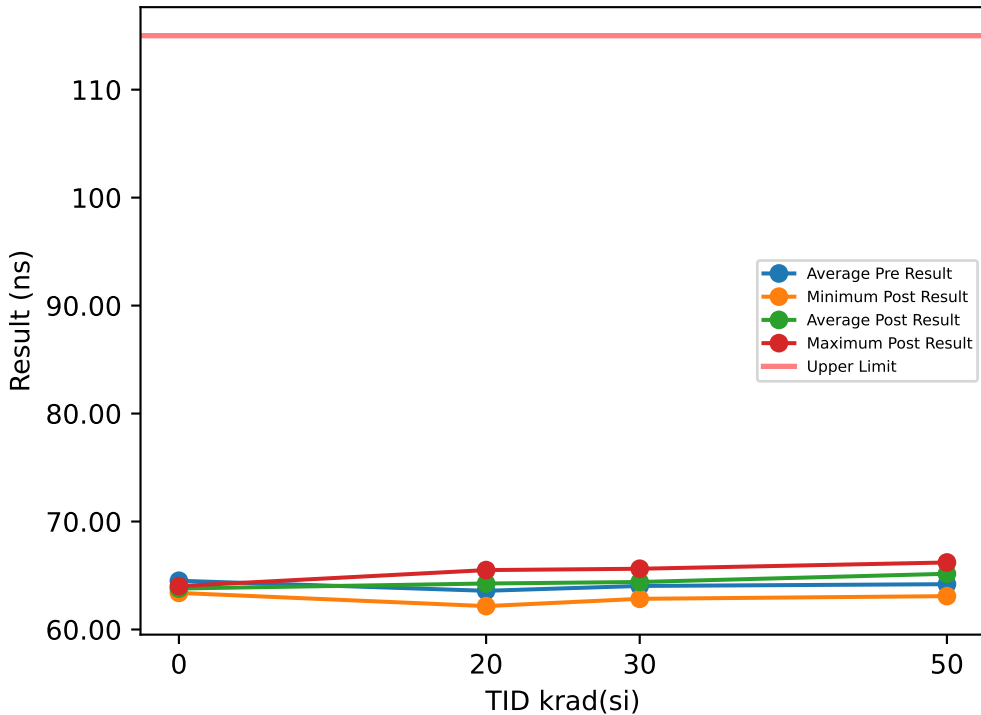
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	65.63	66.272	67.118	0.76469	65.635	65.995	66.311	0.34002	-1.4829	-0.2773	0.408	1.0473
20	64.185	65.564	67.26	0.88998	64.475	66.074	67.521	0.89844	-0.2748	0.50928	1.48	0.47719
30	64.086	65.505	67.07	1.1397	64.383	66.49	68.115	1.0944	-0.2678	0.98493	2.1189	0.77558
50	63.181	65.958	66.816	1.075	65.058	67.109	68.557	1.2445	-0.1023	1.1511	2.2576	0.92745

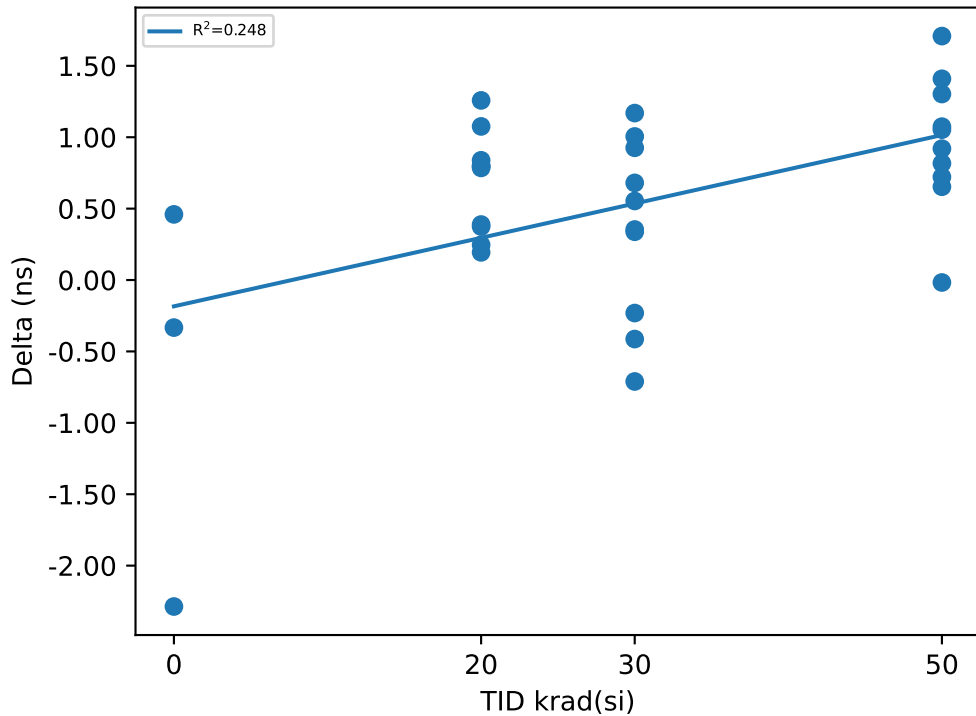
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	63.16	63.354	0.1938
22	20	HDR BIAS	63.207	64.465	1.2579
23	20	HDR BIAS	63.98	64.78	0.7997
24	20	HDR BIAS	64.166	65.242	1.0757
25	20	HDR BIAS	61.791	62.165	0.3743
26	20	HDR UNBIAS	64.717	65.502	0.7851
27	20	HDR UNBIAS	64.188	64.434	0.2461
28	20	HDR UNBIAS	62.662	63.46	0.7978
29	20	HDR UNBIAS	64.493	65.331	0.8384
30	20	HDR UNBIAS	63.465	63.853	0.3887
31	30	HDR BIAS	64.945	65.626	0.6802
32	30	HDR BIAS	64.723	65.277	0.5536
33	30	HDR BIAS	62.637	63.806	1.1691
34	30	HDR BIAS	63.239	64.165	0.926
35	30	HDR BIAS	65.644	65.413	-0.2312
36	30	HDR UNBIAS	63.254	62.841	-0.4134
37	30	HDR UNBIAS	64.065	65.07	1.0053
38	30	HDR UNBIAS	64.953	64.243	-0.7104
39	30	HDR UNBIAS	63.421	63.775	0.3538
40	30	HDR UNBIAS	63.443	63.781	0.338
41	50	HDR BIAS	64.334	65.743	1.4092
42	50	HDR BIAS	64.331	66.039	1.7083
43	50	HDR BIAS	62.035	63.088	1.053
44	50	HDR BIAS	64.295	65.597	1.3026
45	50	HDR BIAS	65.13	65.947	0.8171
46	50	HDR UNBIAS	63.966	64.688	0.7217
47	50	HDR UNBIAS	65.133	66.207	1.074
48	50	HDR UNBIAS	65.11	65.763	0.6533
49	50	HDR UNBIAS	63.261	63.244	-0.0171
50	50	HDR UNBIAS	64.364	65.284	0.9199
71	0	CORRELATION	65.675	63.388	-2.2863
72	0	CORRELATION	63.521	63.981	0.4597
73	0	CORRELATION	64.351	64.017	-0.3331

TID vs Post - Pre Exposure Delta

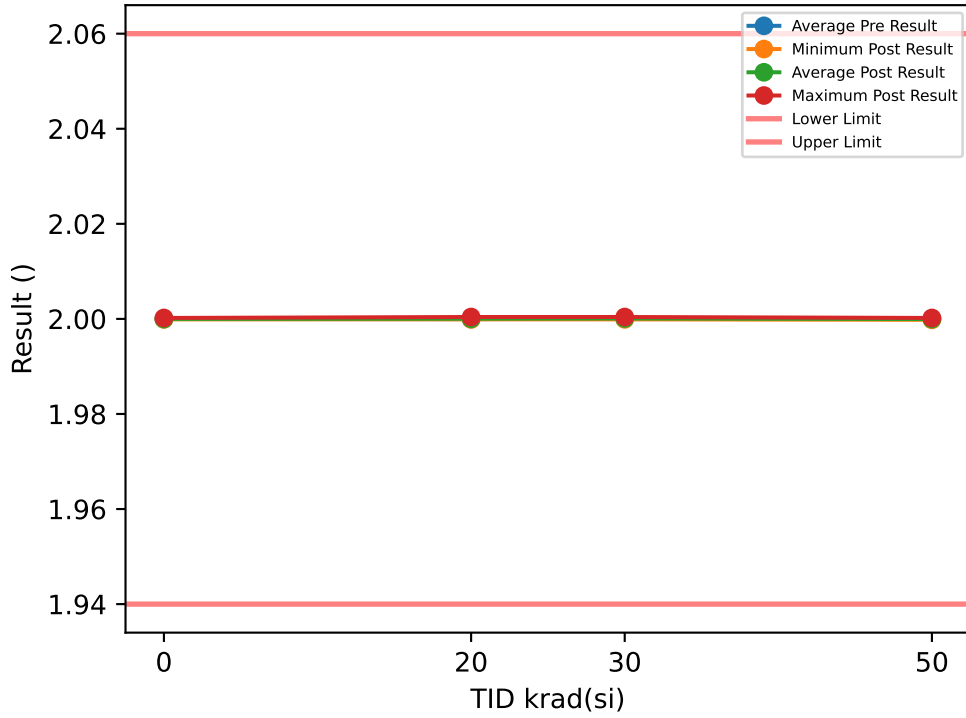


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.521	64.515	65.675	1.0863	63.388	63.796	64.017	0.35304	-2.2863	-0.7199	0.4597	1.4133
20	61.791	63.583	64.717	0.90504	62.165	64.259	65.502	1.0548	0.1938	0.67575	1.2579	0.35865
30	62.637	64.032	65.644	0.98089	62.841	64.4	65.626	0.90566	-0.7104	0.3671	1.1691	0.63464
50	62.035	64.196	65.133	0.95787	63.088	65.16	66.207	1.1346	-0.0171	0.9642	1.7083	0.47471

Device Test: 28.4 LEVEL|RATIO/CS/14/14/0/0/5/500kHz//@C\_CS\_R

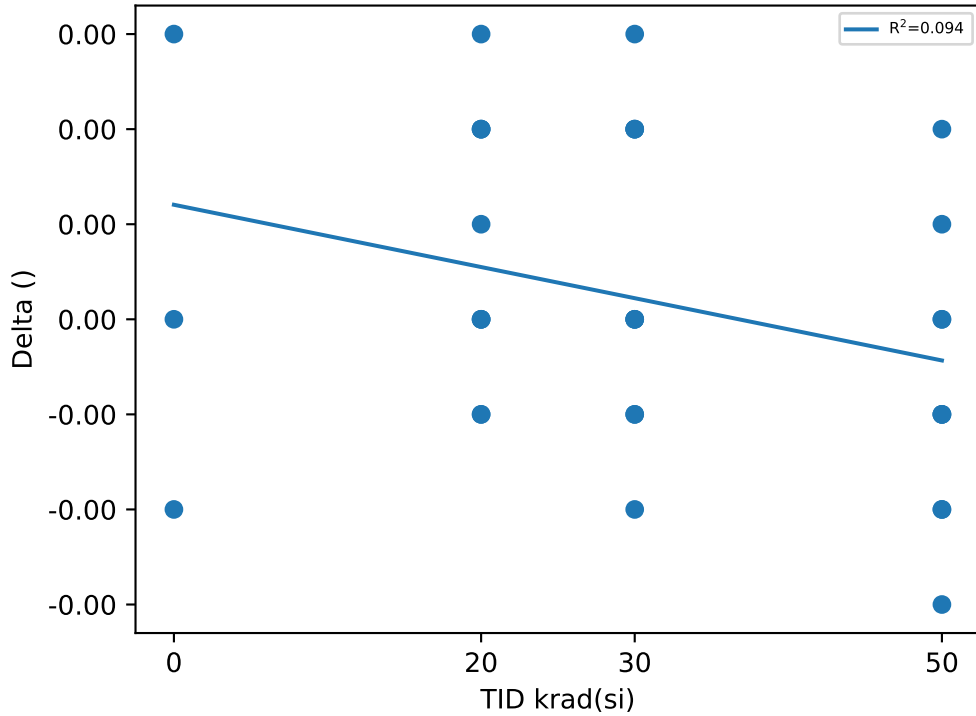
TID vs Result Stats



Test Results (Lower Limit = 1.94, Upper Limit = 2.06 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.9999	2	0.0001
22	20	HDR BIAS	2	1.9999	-0.0001
23	20	HDR BIAS	2.0001	2.0004	0.0003
24	20	HDR BIAS	2	2	0
25	20	HDR BIAS	1.9998	2	0.0002
26	20	HDR UNBIAS	2.0002	2.0001	-0.0001
27	20	HDR UNBIAS	1.9998	2	0.0002
28	20	HDR UNBIAS	1.9998	2	0.0002
29	20	HDR UNBIAS	1.9999	1.9999	0
30	20	HDR UNBIAS	2.0001	2.0001	0
31	30	HDR BIAS	2.0001	1.9999	-0.0002
32	30	HDR BIAS	2.0002	2.0001	-0.0001
33	30	HDR BIAS	2	2	0
34	30	HDR BIAS	2.0001	2	-0.0001
35	30	HDR BIAS	2	2	0
36	30	HDR UNBIAS	2.0003	2.0003	0
37	30	HDR UNBIAS	1.9998	2	0.0002
38	30	HDR UNBIAS	1.9999	2.0001	0.0002
39	30	HDR UNBIAS	2.0001	2.0004	0.0003
40	30	HDR UNBIAS	1.9999	2.0001	0.0002
41	50	HDR BIAS	2	2.0002	0.0002
42	50	HDR BIAS	2.0001	1.9999	-0.0002
43	50	HDR BIAS	2.0001	2	-0.0001
44	50	HDR BIAS	2.0001	1.9998	-0.0003
45	50	HDR BIAS	2	1.9999	-0.0001
46	50	HDR UNBIAS	2	2	0
47	50	HDR UNBIAS	2	2	0
48	50	HDR UNBIAS	2.0003	2.0001	-0.0002
49	50	HDR UNBIAS	2	1.9999	-0.0001
50	50	HDR UNBIAS	1.9998	1.9999	0.0001
71	0	CORRELATION	2.0001	1.9999	-0.0002
72	0	CORRELATION	1.9999	1.9999	0
73	0	CORRELATION	1.9999	2.0002	0.0003

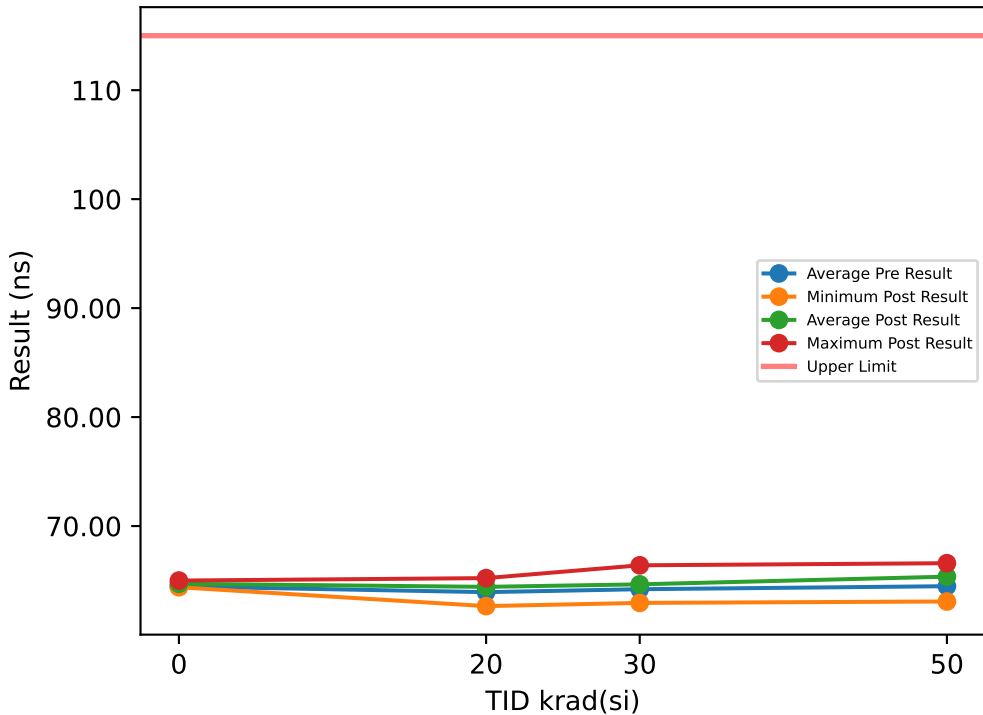
TID vs Post - Pre Exposure Delta



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	1.9999	2	2.0001	0.00011547	1.9999	2	2.0002	0.00017321	-0.0002	3.3333e-05	0.0003	0.00025166
20	1.9998	2	2.0002	0.00014298	1.9999	2	2.0004	0.00014298	-0.0001	8e-05	0.0003	0.00013984
30	1.9998	2	2.0003	0.00015055	1.9999	2.0001	2.0004	0.00015239	-0.0002	5e-05	0.0003	0.00016499
50	1.9998	2	2.0003	0.00012649	1.9998	2	2.0002	0.00011595	-0.0003	-7e-05	0.0002	0.00014944

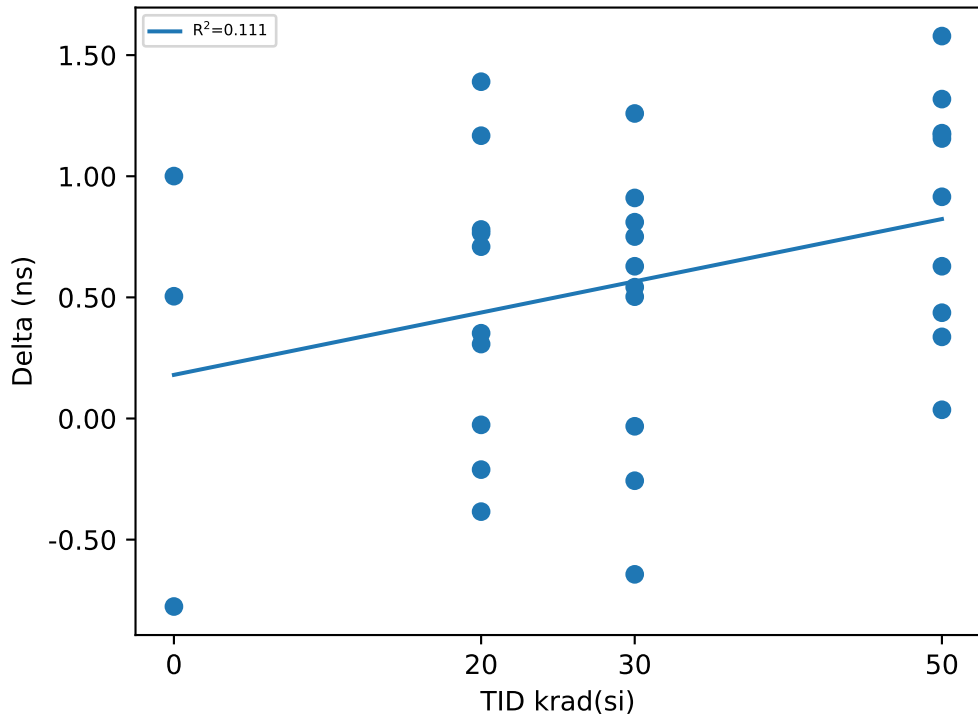
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	63.43	64.598	1.1674
22	20	HDR BIAS	63.334	64.725	1.3903
23	20	HDR BIAS	64.194	64.974	0.7803
24	20	HDR BIAS	64.636	64.988	0.352
25	20	HDR BIAS	61.944	62.653	0.7093
26	20	HDR UNBIAS	65.114	65.088	-0.0262
27	20	HDR UNBIAS	64.915	65.222	0.3073
28	20	HDR UNBIAS	63.296	62.912	-0.3844
29	20	HDR UNBIAS	65.299	65.088	-0.211
30	20	HDR UNBIAS	63.188	63.954	0.7657
31	30	HDR BIAS	64.601	65.23	0.6284
32	30	HDR BIAS	64.831	65.641	0.8104
33	30	HDR BIAS	62.7	63.45	0.751
34	30	HDR BIAS	63.364	63.907	0.5421
35	30	HDR BIAS	65.488	66.398	0.9105
36	30	HDR UNBIAS	63.592	62.949	-0.6433
37	30	HDR UNBIAS	65.077	65.579	0.5029
38	30	HDR UNBIAS	65.062	64.806	-0.2568
39	30	HDR UNBIAS	63.719	64.978	1.2591
40	30	HDR UNBIAS	63.602	63.57	-0.0322
41	50	HDR BIAS	65.281	65.317	0.036
42	50	HDR BIAS	65.435	66.591	1.1557
43	50	HDR BIAS	61.906	63.078	1.1715
44	50	HDR BIAS	64.787	65.415	0.6285
45	50	HDR BIAS	64.867	66.186	1.3185
46	50	HDR UNBIAS	64.029	64.944	0.9152
47	50	HDR UNBIAS	64.921	66.099	1.1778
48	50	HDR UNBIAS	65.438	65.875	0.4367
49	50	HDR UNBIAS	62.896	64.475	1.5786
50	50	HDR UNBIAS	65.244	65.581	0.337
71	0	CORRELATION	65.162	64.385	-0.7761
72	0	CORRELATION	64.223	64.728	0.5046
73	0	CORRELATION	63.998	64.998	1.0007

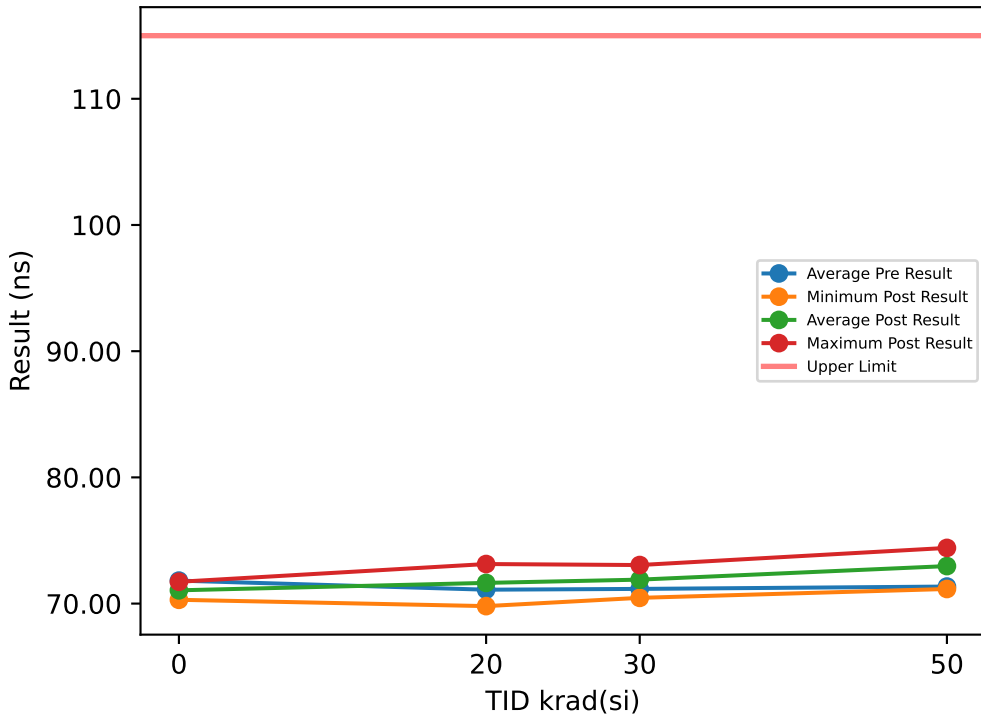
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.998	64.461	65.162	0.61725	64.385	64.704	64.998	0.30719	-0.7761	0.24307	1.0007	0.91682
20	61.944	63.935	65.299	1.0706	62.653	64.42	65.222	0.93712	-0.3844	0.48507	1.3903	0.58237
30	62.7	64.204	65.488	0.92119	62.949	64.651	66.398	1.1266	-0.6433	0.44721	1.2591	0.58287
50	61.906	64.48	65.438	1.194	63.078	65.356	66.591	1.0125	0.036	0.87555	1.5786	0.49419

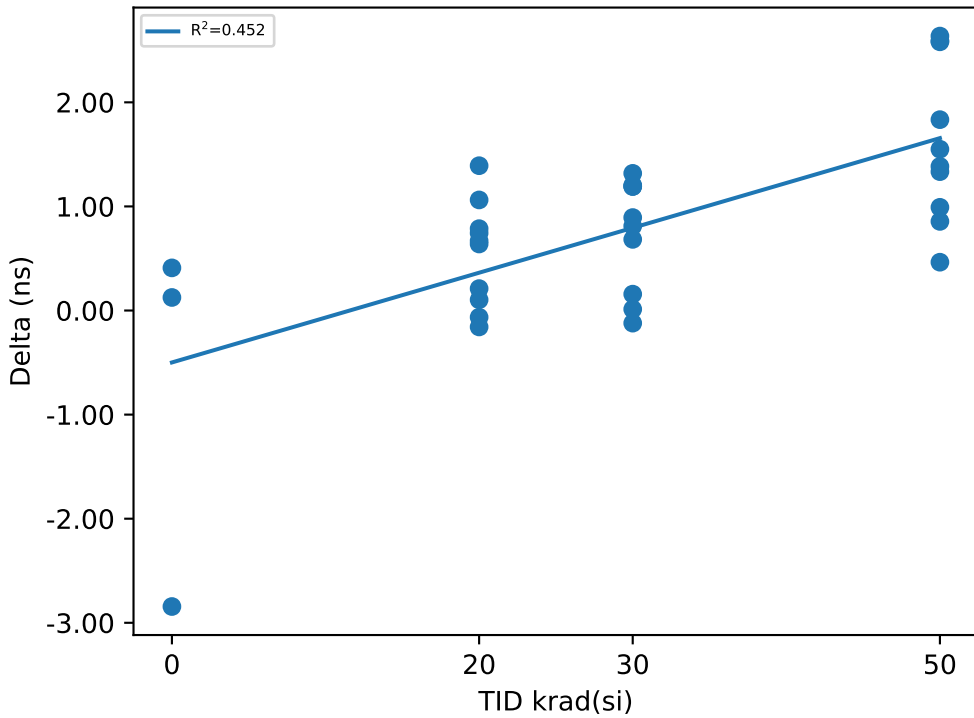
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	71.377	71.312	-0.0644
22	20	HDR BIAS	70.977	72.039	1.0624
23	20	HDR BIAS	72.211	72.88	0.669
24	20	HDR BIAS	72.115	72.859	0.7441
25	20	HDR BIAS	69.16	69.8	0.6391
26	20	HDR UNBIAS	72.923	73.134	0.2106
27	20	HDR UNBIAS	70.852	71.638	0.7864
28	20	HDR UNBIAS	69.231	70.622	1.3913
29	20	HDR UNBIAS	71.483	71.587	0.1033
30	20	HDR UNBIAS	70.683	70.526	-0.1577
31	30	HDR BIAS	71.57	72.888	1.3178
32	30	HDR BIAS	72.788	72.945	0.1573
33	30	HDR BIAS	70.171	71.362	1.1914
34	30	HDR BIAS	70.322	71.005	0.6834
35	30	HDR BIAS	72.018	72.911	0.8932
36	30	HDR UNBIAS	69.421	70.624	1.2037
37	30	HDR UNBIAS	72.243	73.055	0.8115
38	30	HDR UNBIAS	71.163	72.356	1.1923
39	30	HDR UNBIAS	71.363	71.376	0.0126
40	30	HDR UNBIAS	70.576	70.455	-0.1213
41	50	HDR BIAS	71.882	73.716	1.8337
42	50	HDR BIAS	72.007	73.556	1.5496
43	50	HDR BIAS	68.575	71.157	2.5814
44	50	HDR BIAS	71.612	74.202	2.59
45	50	HDR BIAS	71.775	74.412	2.6365
46	50	HDR UNBIAS	70.89	71.746	0.8561
47	50	HDR UNBIAS	72.559	73.023	0.4642
48	50	HDR UNBIAS	71.933	73.267	1.3342
49	50	HDR UNBIAS	70.636	72.02	1.3842
50	50	HDR UNBIAS	71.624	72.615	0.9915
71	0	CORRELATION	73.144	70.3	-2.8436
72	0	CORRELATION	71.318	71.728	0.4096
73	0	CORRELATION	71	71.125	0.1254

TID vs Post - Pre Exposure Delta

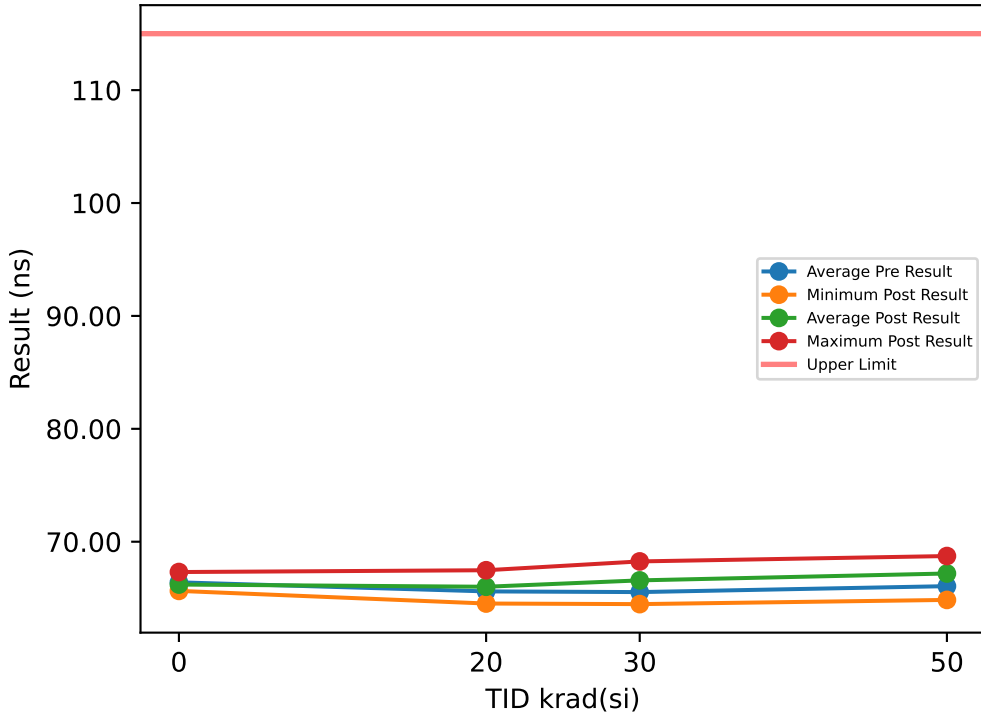


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	71	71.82	73.144	1.1572	70.3	71.051	71.728	0.71642	-2.8436	-0.76953	0.4096	1.8018
20	69.16	71.101	72.923	1.2164	69.8	71.64	73.134	1.115	-0.1577	0.53841	1.3913	0.50307
30	69.421	71.163	72.788	1.0443	70.455	71.898	73.055	1.0388	-0.1213	0.73419	1.3178	0.5374
50	68.575	71.349	72.559	1.1185	71.157	72.971	74.412	1.0749	0.4642	1.6221	2.6365	0.77465



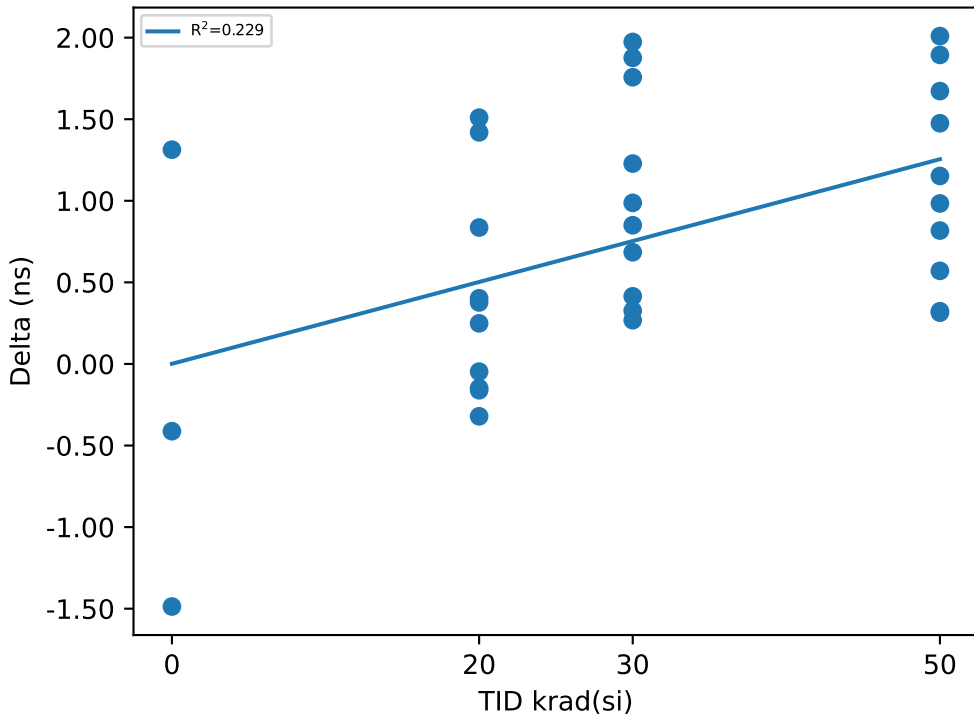
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	65.686	65.639	-0.047
22	20	HDR BIAS	64.701	65.537	0.8361
23	20	HDR BIAS	66.856	67.259	0.4026
24	20	HDR BIAS	66.109	66.486	0.3769
25	20	HDR BIAS	63.679	65.189	1.5096
26	20	HDR UNBIAS	67.224	67.473	0.2488
27	20	HDR UNBIAS	65.461	66.88	1.4193
28	20	HDR UNBIAS	64.673	64.525	-0.1481
29	20	HDR UNBIAS	66.372	66.051	-0.321
30	20	HDR UNBIAS	65.233	65.072	-0.1612
31	30	HDR BIAS	66.499	67.183	0.6844
32	30	HDR BIAS	66.229	68.105	1.8762
33	30	HDR BIAS	64.149	65.907	1.7573
34	30	HDR BIAS	64.261	66.234	1.9736
35	30	HDR BIAS	67.027	68.255	1.2282
36	30	HDR UNBIAS	64.058	64.473	0.4145
37	30	HDR UNBIAS	65.8	66.787	0.9872
38	30	HDR UNBIAS	66.607	66.875	0.2681
39	30	HDR UNBIAS	65.617	66.467	0.8502
40	30	HDR UNBIAS	65.136	65.462	0.3261
41	50	HDR BIAS	66.373	67.356	0.9837
42	50	HDR BIAS	66.143	67.815	1.6724
43	50	HDR BIAS	64.027	64.845	0.8175
44	50	HDR BIAS	66.35	68.243	1.894
45	50	HDR BIAS	66.721	68.731	2.0095
46	50	HDR UNBIAS	66.064	66.387	0.323
47	50	HDR UNBIAS	66.886	67.457	0.5706
48	50	HDR UNBIAS	67.01	67.324	0.3143
49	50	HDR UNBIAS	65.406	66.558	1.1521
50	50	HDR UNBIAS	65.656	67.131	1.4751
71	0	CORRELATION	67.131	65.644	-1.4867
72	0	CORRELATION	66.001	67.315	1.3132
73	0	CORRELATION	66.073	65.66	-0.4122

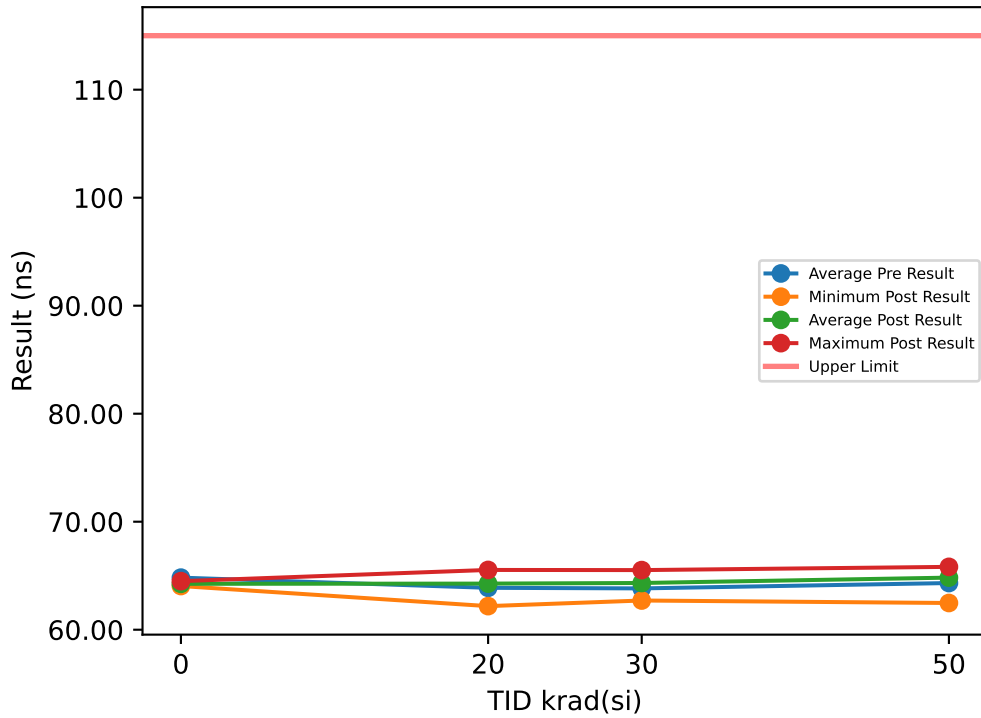
TID vs Post - Pre Exposure Delta



Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	66.001	66.402	67.131	0.63268	65.644	66.206	67.315	0.95979	-1.4867	-0.19523	1.3132	1.4125
20	63.679	65.6	67.224	1.0847	64.525	66.011	67.473	0.98915	-0.321	0.4116	1.5096	0.65128
30	64.058	65.538	67.027	1.0926	64.473	66.575	68.255	1.1499	0.2681	1.0366	1.9736	0.6483
50	64.027	66.064	67.01	0.87767	64.845	67.185	68.731	1.082	0.3143	1.1212	2.0095	0.62528

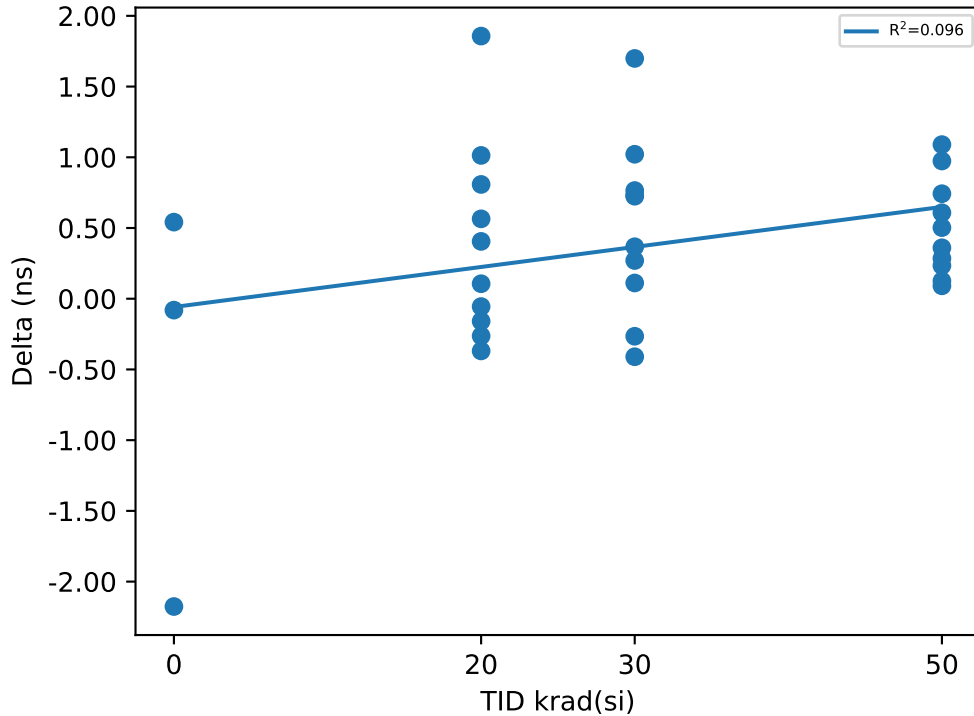
TID vs Result Stats



Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	63.607	64.415	0.808
22	20	HDR BIAS	63.099	64.956	1.8569
23	20	HDR BIAS	64.413	64.044	-0.3691
24	20	HDR BIAS	64.521	65.534	1.0132
25	20	HDR BIAS	62.344	62.185	-0.1589
26	20	HDR UNBIAS	64.846	65.41	0.5648
27	20	HDR UNBIAS	63.942	64.347	0.4053
28	20	HDR UNBIAS	63.341	63.285	-0.0554
29	20	HDR UNBIAS	65.158	65.264	0.106
30	20	HDR UNBIAS	63.52	63.257	-0.2632
31	30	HDR BIAS	64.216	64.98	0.7649
32	30	HDR BIAS	64.651	65.019	0.3676
33	30	HDR BIAS	62.42	63.151	0.7314
34	30	HDR BIAS	62.46	64.159	1.6988
35	30	HDR BIAS	65.785	65.52	-0.2654
36	30	HDR UNBIAS	63.115	62.705	-0.4102
37	30	HDR UNBIAS	64.294	65.315	1.0213
38	30	HDR UNBIAS	64.302	64.414	0.1113
39	30	HDR UNBIAS	63.681	63.951	0.2701
40	30	HDR UNBIAS	63.328	64.052	0.7247
41	50	HDR BIAS	64.434	65.042	0.608
42	50	HDR BIAS	65.093	65.327	0.234
43	50	HDR BIAS	61.732	62.475	0.7425
44	50	HDR BIAS	65.113	65.473	0.3602
45	50	HDR BIAS	64.192	65.281	1.0896
46	50	HDR UNBIAS	64.297	64.582	0.2854
47	50	HDR UNBIAS	65.316	65.819	0.5028
48	50	HDR UNBIAS	65.479	65.605	0.1254
49	50	HDR UNBIAS	63.137	64.111	0.9737
50	50	HDR UNBIAS	64.425	64.516	0.0912
71	0	CORRELATION	66.221	64.045	-2.1761
72	0	CORRELATION	63.955	64.496	0.5416
73	0	CORRELATION	64.288	64.208	-0.0806

TID vs Post - Pre Exposure Delta

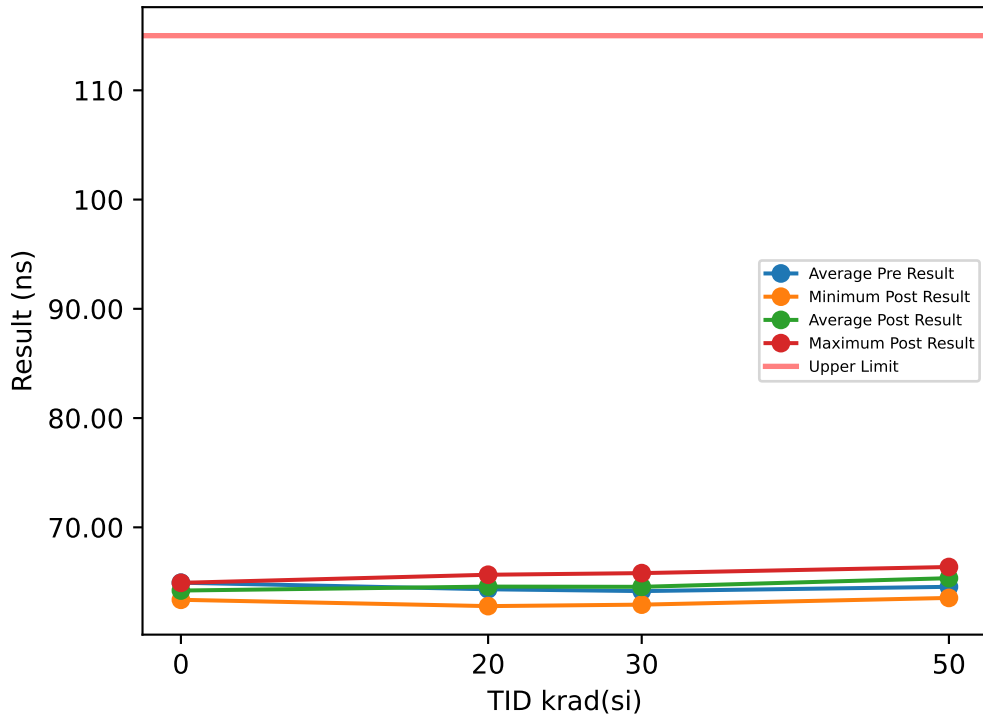


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.955	64.821	66.221	1.2236	64.045	64.25	64.496	0.22867	-2.1761	-0.5717	0.5416	1.4239
20	62.344	63.879	65.158	0.86459	62.185	64.27	65.534	1.0943	-0.3691	0.39076	1.8569	0.69353
30	62.42	63.825	65.785	1.04	62.705	64.327	65.52	0.91726	-0.4102	0.50145	1.6988	0.62529
50	61.732	64.322	65.479	1.1401	62.475	64.823	65.819	0.98382	0.0912	0.50128	1.0896	0.34742

# Device Test: 28.44 TIMING|DELAY/CS/14/14/0/1000/5/1MHz//@CS\_ILIM\_DELAY

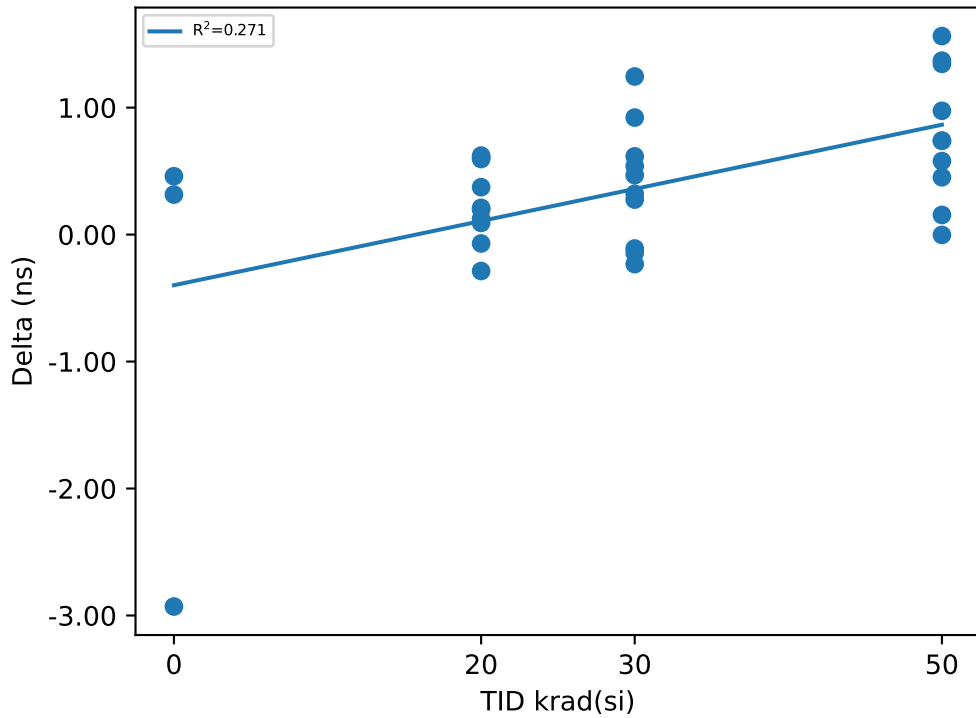
### TID vs Result Stats



### Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	64.024	64.619	0.5951
22	20	HDR BIAS	64.179	63.892	-0.2869
23	20	HDR BIAS	64.742	64.953	0.2106
24	20	HDR BIAS	64.699	65.072	0.3733
25	20	HDR BIAS	62.167	62.789	0.6221
26	20	HDR UNBIAS	65.731	65.66	-0.07
27	20	HDR UNBIAS	65.19	65.387	0.1963
28	20	HDR UNBIAS	63.16	63.766	0.6061
29	20	HDR UNBIAS	65.421	65.546	0.1249
30	20	HDR UNBIAS	63.993	64.085	0.0919
31	30	HDR BIAS	65.44	65.33	-0.1097
32	30	HDR BIAS	65.635	65.49	-0.1448
33	30	HDR BIAS	62.783	64.028	1.2452
34	30	HDR BIAS	62.964	63.886	0.9216
35	30	HDR BIAS	65.27	65.809	0.5395
36	30	HDR UNBIAS	62.603	62.924	0.3211
37	30	HDR UNBIAS	64.915	65.191	0.2757
38	30	HDR UNBIAS	64.974	64.742	-0.2325
39	30	HDR UNBIAS	63.992	64.46	0.4679
40	30	HDR UNBIAS	63.069	63.685	0.616
41	50	HDR BIAS	64.371	65.715	1.3446
42	50	HDR BIAS	65.328	65.906	0.5789
43	50	HDR BIAS	61.975	63.539	1.5634
44	50	HDR BIAS	65.398	65.395	-0.0027
45	50	HDR BIAS	65.395	66.37	0.9748
46	50	HDR UNBIAS	64.115	64.855	0.7391
47	50	HDR UNBIAS	65.483	65.935	0.4516
48	50	HDR UNBIAS	65.593	65.748	0.1545
49	50	HDR UNBIAS	63.194	64.564	1.3695
50	50	HDR UNBIAS	64.698	65.438	0.7396
71	0	CORRELATION	66.298	63.368	-2.9293
72	0	CORRELATION	63.895	64.355	0.4595
73	0	CORRELATION	64.605	64.92	0.3151

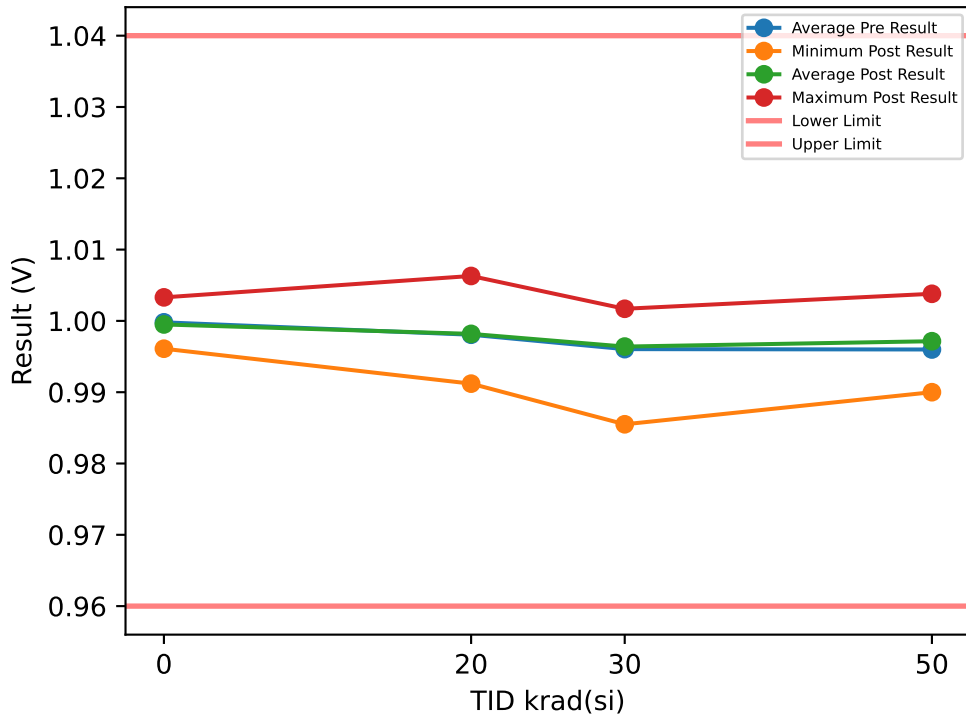
### TID vs Post - Pre Exposure Delta



### Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.895	64.933	66.298	1.2343	63.368	64.214	64.92	0.78539	-2.9293	-0.71823	0.4595	1.9162
20	62.167	64.331	65.731	1.0789	62.789	64.577	65.66	0.9263	-0.2869	0.24634	0.6221	0.30463
30	62.603	64.165	65.635	1.2132	62.924	64.555	65.809	0.92128	-0.2325	0.39	1.2452	0.47545
50	61.975	64.555	65.593	1.1881	63.539	65.346	66.37	0.82568	-0.0027	0.79133	1.5634	0.5241

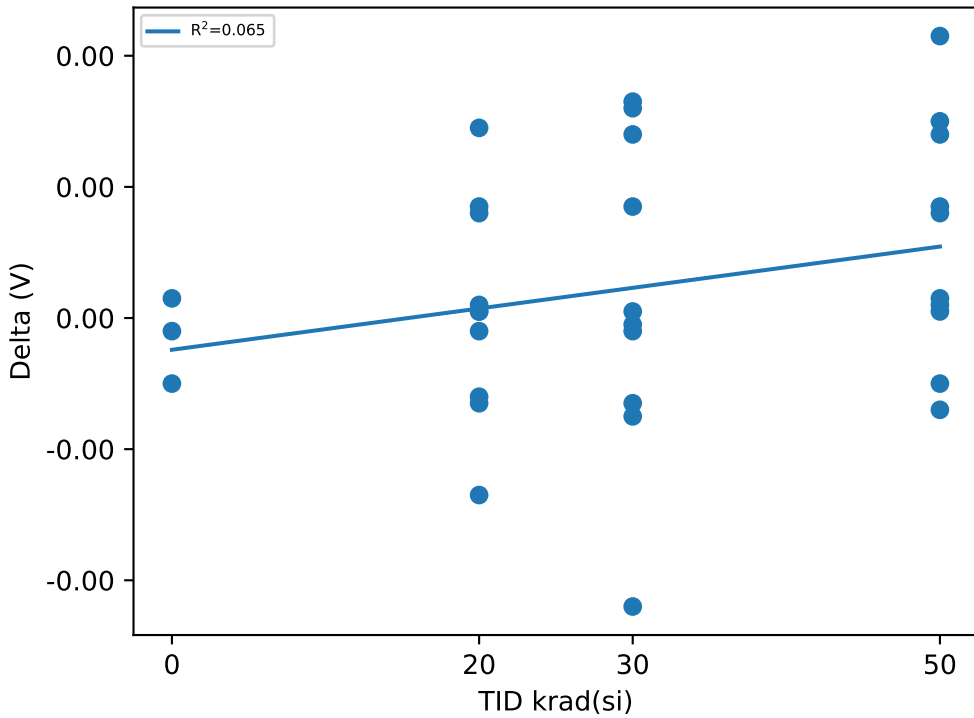
TID vs Result Stats



Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9957	0.9973	0.0016
22	20	HDR BIAS	0.9883	0.9912	0.0029
23	20	HDR BIAS	0.9989	1.0006	0.0017
24	20	HDR BIAS	1.0032	1.002	-0.0012
25	20	HDR BIAS	0.9944	0.9942	-0.0002
26	20	HDR UNBIAS	1.0018	1.0005	-0.0013
27	20	HDR UNBIAS	1.0062	1.0063	0.0001
28	20	HDR UNBIAS	1.0018	1.002	0.0002
29	20	HDR UNBIAS	0.9943	0.9916	-0.0027
30	20	HDR UNBIAS	0.996	0.9961	0.0001
31	30	HDR BIAS	1.0018	1.0003	-0.0015
32	30	HDR BIAS	0.9959	0.996	0.0001
33	30	HDR BIAS	0.9943	0.996	0.0017
34	30	HDR BIAS	0.9989	1.0017	0.0028
35	30	HDR BIAS	0.9913	0.9946	0.0033
36	30	HDR UNBIAS	0.9856	0.9855	-0.0001
37	30	HDR UNBIAS	0.9974	0.9972	-0.0002
38	30	HDR UNBIAS	0.9974	1.0006	0.0032
39	30	HDR UNBIAS	1.0019	0.9975	-0.0044
40	30	HDR UNBIAS	0.9959	0.9946	-0.0013
41	50	HDR BIAS	0.9914	0.99	-0.0014
42	50	HDR BIAS	0.9898	0.99	0.0002
43	50	HDR BIAS	0.9942	0.9958	0.0016
44	50	HDR BIAS	0.9989	1.0006	0.0017
45	50	HDR BIAS	0.9973	1.0003	0.003
46	50	HDR UNBIAS	0.9885	0.9928	0.0043
47	50	HDR UNBIAS	1.0004	1.0005	0.0001
48	50	HDR UNBIAS	0.9957	0.996	0.0003
49	50	HDR UNBIAS	0.9989	1.0017	0.0028
50	50	HDR UNBIAS	1.0048	1.0038	-0.001
71	0	CORRELATION	1.0035	1.0033	-0.0002
72	0	CORRELATION	0.9958	0.9961	0.0003
73	0	CORRELATION	1.0001	0.9991	-0.001

TID vs Post - Pre Exposure Delta



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	0.9958	0.9998	1.0035	0.0038588	0.9961	0.9995	1.0033	0.0036166	-0.001	-0.0003	0.0003	0.00065574
20	0.9883	0.99806	1.0062	0.0053121	0.9912	0.99818	1.0063	0.0049364	-0.0027	0.00012	0.0029	0.001641
30	0.9856	0.99604	1.0019	0.0048754	0.9855	0.9964	1.0017	0.0045753	-0.0044	0.00036	0.0033	0.0024478
50	0.9885	0.99599	1.0048	0.0051043	0.99	0.99715	1.0038	0.0049697	-0.0014	0.00116	0.0043	0.0018386

## IMPORTANT NOTICE AND DISCLAIMER

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

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

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

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

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

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265

Copyright © 2025, Texas Instruments Incorporated