

TPS7H4011-SEP Total Ionizing Dose (TID) Radiation Report



ABSTRACT

This report discusses the results of the TID testing for the Texas Instruments TPS7H4011-SEP 4.5V to 14V input, 12A radiation tolerant synchronous buck converter.

The study was done to determine TID effects under high dose rate (HDR) up to 50krad(Si) after 84h anneal at room temperature (resulting in an effective dose rate of 165.34mrad(Si)/s).

The results show that all samples passed within the specified limits up to 50krad(Si).

Table of Contents

1 Device Information	2
1.1 Product Description	2
1.2 Device Details	2
2 Total Dose Test Setup	4
2.1 Test Overview	4
2.2 Test Description and Facilities	4
2.3 Test Setup Details	4
2.4 Biased Test Configuration and Condition	5
3 TID Characterization Test Results	6
3.1 TID Characterization Summary Results	6
3.2 Data Sheet Electrical Parameter Characteristics	6
4 Applicable and Reference Documents	13
4.1 Applicable Documents	13
4.2 Reference Documents	13
A Appendix A: HDR Results	14
B Revision History	15

List of Figures

Figure 1-1. TPS7H4011-SEP Device Used in Exposure (Front)	3
Figure 1-2. TPS7H4011-SEP Device Used in Exposure (Back)	3
Figure 2-1. TPS7H4011-SEP Bias Diagram	4

List of Tables

Table 1-1. Device and Exposure Details	2
Table 2-1. HDR: Biased Device Information	5
Table 2-2. HDR: Unbiased Device Information	5
Table 3-1. Data Sheet Electrical Parameter Characteristics	6
Table 3-2. Data Sheet Electrical Parameter Characteristics - Plastic (HTSSOP) Package	11
Table A-1. Decoder Implementation, Example Test: IDD STATIC/VIN/14////@VIN_SHDN_CURR_14V	14

Trademarks

All trademarks are the property of their respective owners.

1 Device Information

1.1 Product Description

The TPS7H4011-SEP is a 14V, 12A synchronous buck converter optimized for use in a space environment. High efficiency and reduced component count are achieved through peak current mode control.

The wide voltage range of the TPS7H4011-SEP enables the device to be used as a point of load regulator to convert directly from a 12V or 5V rail. The output voltage start-up ramp is controlled by the SS_TR pin. Power sequencing is possible with the EN and PWRGD pins. The device can be configured with up to four devices in parallel without an external clock for increased current capabilities. Additionally, various features are included such as differential remote sensing, selectable current limit, a flexible fault input pin, and configurable compensation.

1.2 Device Details

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

Table 1-1. Device and Exposure Details

TID Exposure Details	
TI Device	TPS7H4011-SEP
Package	44-pin HTSSOP (DDW)
TI Part Name	TPS7H4011MDDWTSEP
Technology	LBC7 (Linear BiCMOS 7)
Assembly Lot Number	5391975
Quantity Tested	HDR: 30 Devices • Five biased and five unbiased units at 20krad (Si) levels • Five biased and five unbiased units at 30krad (Si) levels • Five biased and five unbiased units at 50krad (Si) levels • Five control/correlation units with no exposure
HDR Radiation Facility	Texas Instruments, Dallas, TX
HDR Dose Level	50krad(Si)
HDR Dose Rate	156.35 rads(Si)/s ionizing radiation dose rate
HDR Radiation Source	Gamma cell Co-60
Irradiation Temperature	Ambient, room temperature controlled to 25°C (±6°C) per MIL-STD-883 and MIL-STD-750.

50krad biased devices were annealed for 84 hours at room temperature with their respective bias condition resulting in an effective dose rate of 165.34mrad(Si)/s).



Figure 1-1. TPS7H4011-SEP Device Used in Exposure (Front)

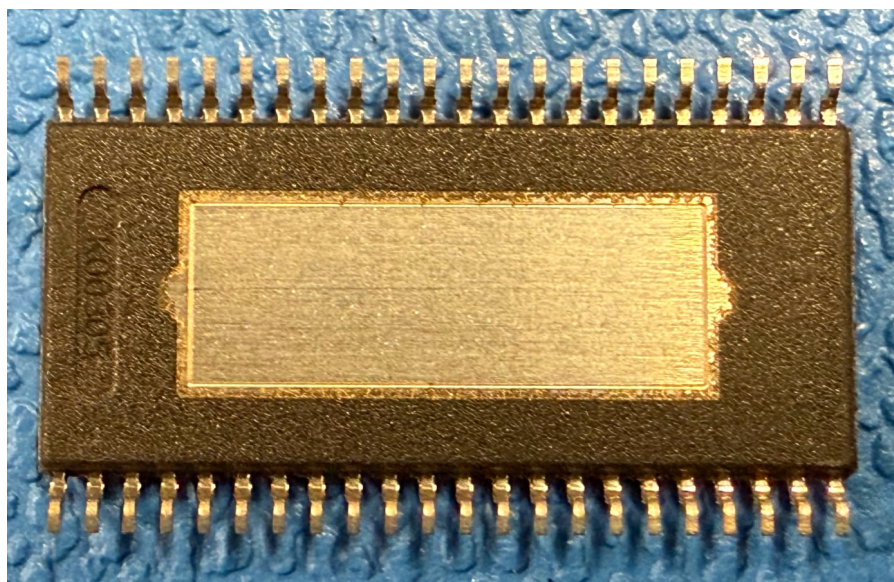


Figure 1-2. TPS7H4011-SEP Device Used in Exposure (Back)

2 Total Dose Test Setup

2.1 Test Overview

The TPS7H4011-SEP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, Condition A was used. The product was irradiated up to the target radiation level, and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). All devices remained functional passing all parametric test limits.

2.2 Test Description and Facilities

The TPS7H4011-SEP HDR exposure was performed on biased and unbiased devices in a Co-60 gamma cell at TI facility in Dallas, Texas. The unattenuated dose rate of this cell was 156.35rads(Si)/s. The 50krad(Si) biased devices were annealed with the respective biased condition for 84 hours and retested. The effective dose rate for these devices was 164.34mrad(Si)/s. ATE test limits are set per data sheet electrical limits based on qualification and characterization data.

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 condition, the exposure was performed with all pins grounded.

2.3.2 Biased

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

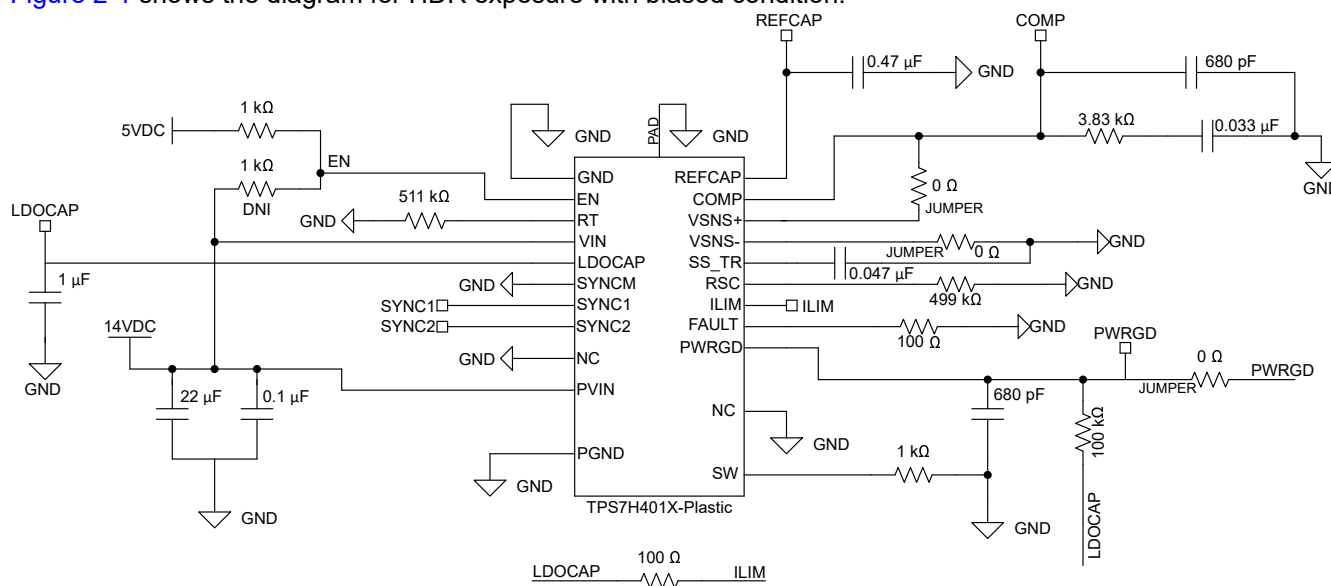


Figure 2-1. TPS7H4011-SEP Bias Diagram

2.4 Biased Test Configuration and Condition

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

Table 2-1. HDR: Biased Device Information

Total Samples: 15		
Exposure Levels		
20krad(Si)	30krad(Si)	50krad(Si)
995, 996, 997, 998, 999	1025, 1026, 1027, 1028, 1029	1035, 1036, 1037, 1038, 1039

Table 2-2. HDR: Unbiased Device Information

Total Samples: 15		
Exposure Levels		
20 krad(Si)	30 krad(Si)	50 krad(Si)
990, 991, 992, 993, 994	1020, 1021, 1022, 1023, 1024	1030, 1031, 1032, 1033, 1034

3 TID Characterization Test Results

3.1 TID Characterization Summary Results

The parametric data for the TPS7H4011-SEP passes up to 50krad(Si) HDR TID irradiation. The drifts of the electrical parameters through HDR were within the data sheet limits.

Overall, the TPS7H4011-SEP showed a strong degree of hardness to HDR TID irradiation up to 50krad(Si) for both biased and unbiased exposure conditions. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each dose level for both biased and unbiased. The parameters that did show a greater degree of change pre- and post- irradiation were still within the electrical performance characteristics specified in the data sheet electrical parameters. See Datasheet Electrical Parameter Characteristics for electrical parameters. Test numbers are listed only for parameters tested for TID.

See [Appendix A](#) for HDR report up to 50krad(Si).

3.2 Data Sheet Electrical Parameter Characteristics

Over $4.5V \leq V_{IN} \leq 14V$, $PV_{IN} = V_{IN}$, $VSNS- = 0V$, open loop configuration, $I_{OUT} = 0A$, $T_A = 25^\circ C$, unless otherwise noted.

Table 3-1. Data Sheet Electrical Parameter Characteristics

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
POWER SUPPLIES AND CURRENTS									
V _{UVLOR_PVIN}	PVIN internal UVLO rising threshold			1, 2, 3	3.2	3.4	3.6	V	14.1,14.7, 14.13, 14.19
V _{UVLOHYST_PVIN}	PVIN internal UVLO hysteresis			1, 2, 3	425	450	500	mV	14.3, 14.9, 14.15, 14.21
V _{UVLOR_VIN}	VIN internal UVLO rising threshold			1, 2, 3	3.4	3.6	3.8	V	14.4, 14.10, 14.16, 14.22
V _{UVLOHYST_VIN}	VIN internal UVLO hysteresis			1, 2, 3	140	155	170	mV	14.6, 14.12, 14.18, 14.24
I _{SHDN_VIN}	VIN shutdown supply current	V _{EN} = 0V	VIN = 4.5V	1, 2, 3		2	2.9	mA	12.1
			VIN = 14V	1, 2, 3		2	3		12.16
I _{SHDN_PVIN}	PVIN shutdown supply current	V _{EN} = 0V	PVIN = 4.5V	1, 2, 3		2.6	3.5	mA	12.2
			PVIN = 14V	1, 2, 3		3.5	4.7		12.17
I _{Q_VIN}	VIN operating quiescent current (non switching)	V _{EN} = 7V, V _{SENSE} = 1V		1, 2, 3		2.6	5	mA	12.3, 12.8, 12.13, 12.18
ENABLE AND FAULT									
V _{EN(rising)}	Enable rising threshold (turn-on)			1, 2, 3	0.555	0.61	0.655	V	15.3, 15.6, 15.9, 15.12
V _{EN(falling)}	Enable falling threshold (turn-off)			1, 2, 3	0.455	0.51	0.554		15.4, 15.7, 15.10, 15.13
t _{EN(delay)}	Enable propogation delay	EN high to SW high, SS pin open		1, 2, 3		52	100	μs	24.32, 24.72, 24.112, 24.152
I _{EN(LKG)}	Enable input leakage current	V _{EN} = 7V		1, 2, 3		2	100	nA	15.1, 15.15
V _{FAULT(rising)}	FAULT threshold rising (turn-off)			1, 2, 3	0.555	0.6	0.635	V	16.1, 16.5, 16.9, 16.13
V _{FAULT(falling)}	FAULT threshold falling (turn-on)			1, 2, 3	0.455	0.5	0.535		16.2,16.6, 16.10, 16.14
V _{FAULT(HYS)}	FAULT hysteresis voltage			1, 2, 3	90	100	110	mV	16.3, 16.7, 16.11, 16.15
I _{FAULT(LKG)}	Fault input leakage current	V _{FAULT} = 7V		1, 2, 3		3	5	μA	16.4, 16.8, 16.12, 16.16
t _{FAULT(min)}	FAULT minimum puls width			9, 10, 11	0.4		1.4	μs	24.39, 24.79, 24.119, 24.159

Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
t _{FAULT(delay)}	FAULT delay duration			9, 10, 11	26	31	44	(1/f _{sw}) s	24.34, 24.36, 24.38, 24.74, 24.76, 24.78, 24.114, 24.116, 24.118, 24.154, 24.156, 24.158
VOLTAGE REFERENCE AND REMOTE SENSE									
V _{REF}	Internal voltage reference (including error amplifier V _{IO})	See data sheet for more info	T _A = −55°C	3	0.595	0.598	0.603	V	
			T _A = 25°C	1	0.596	0.6	0.603		17.3,17.11, 17.19, 17.27
			T _A = 125°C	2	0.596	0.599	0.603		
V _{REF(internal)}	Internal voltage reference (without error amplifier included)	V _{REF(internal)} = V _{SS_TR} − VSNS-		1, 2, 3	0.593	0.6	0.606	V	17.1, 17.9, 17.17, 17.25
V _{BG}	Bandgap voltage (voltage at the REFCAP pin)	C _{REFCAP} = 470nF		1, 2, 3	1.184	1.2	1.222	V	12.5,12.10, 12.15, 12.20
I _{VSNS+(LKG)}	VSNS+ input leakage current	VSNS+ = 0.6V		1, 2, 3		10	30	nA	17.5, 17.13, 17.21, 17.29
I _{VSNS-}	VSNS- output current			1, 2, 3	8	10	12	μA	17.4, 17.12, 17.20, 17.28
ERROR AMPLIFIER									
V _{IO}	Error amplifier input offset voltage	VSENSE = 0.6V		1, 2, 3	−2.3		2.9	mV	17.2, 17.10, 17.18, 17.26
g _{mEA}	Error amplifier transconductance	−10μA < I _{COMP} < 10μA, V _{COMP} = 1V	T _A = −55°C	11	1400	2050	2700	μS	
			T _A = 25°C	9	1200	1650	2100		18.1,18.4, 18.7, 18.10
			T _A = 125°C	10	1000	1250	1500		
EA _{DC}	Error amplifier DC gain	VSENSE = 0.6V				11500		V/V	
EA _{ISRC}	Error amplifier source	V _{COMP} = 1V, 100mV input overdrive		1, 2, 3	90	125	200	μA	18.2,18.5, 18.8, 18.11
EA _{ISNK}	Error amplifier sink				90	125	200		18.3, 18.6, 18.9, 18.12
EA _{Ro}	Error amplifier output resistance					7		MΩ	
EA _{BW}	Error amplifier bandwidth					9		MHz	
g _{mps}	Power stage transconductance, 18.3A (typ) current limit	I _{OUT} = 12, ILM = AVDD	T _A = −55°C	3	14.4	19.4	24.8	S	
			T _A = 25°C	1	15.2	20.4	26.1		20.12, 20.46, 20.80, 20.114
			T _A = 125°C	2	16	21	27		
g _{mps}	Power stage transconductance, 13.4A (typ) current limit	I _{OUT} = 9A, R _{ILIM_TOP} = 49.9kΩ, R _{ILIM_BOT} = 100kΩ	T _A = −55°C	3	9.3	13.3	17	S	
			T _A = 25°C	1	9.6	13.8	17.5		20.13, 20.47, 20.81, 20.115
			T _A = 125°C	2	9.7	14	18.1		
g _{mps}	Power stage transconductance, 18.3A (typ) current limit	V _{COMP} = 0.6V, ILM = AVDD		1, 2, 3	17.8	22.4	28.3	S	20.18, 20.52, 20.86, 20.120
g _{mps}	Power stage transconductance, 13.4A (typ) current limit	V _{COMP} = 0.65V, R _{ILIM_TOP} =49.9kΩ, R _{ILIM_BOT} = 100kΩ		1, 2, 3	12.8	16.1	20.6	S	20.19, 20.53, 20.87, 20.121
g _{mps}	Power stage transconductance, 9A (typ) current limit	V _{COMP} = 0.65V, R _{ILIM_TOP} =100kΩ, R _{ILIM_BOT} = 49.9kΩ		1, 2, 3	8	11	15.5	S	20.20, 20.54, 20.88, 20.122
g _{mps}	Power stage transconductance, 5.6A (typ) current limit	V _{COMP} = 0.75V, ILM = GND		1, 2, 3	4.6	7.2	9.2	S	20.21, 20.55, 20.89, 20.123

Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
OVERCURRENT PROTECTION									
I _{OC_HS1}	High-side switch current limit threshold 1	R _{SHORT} = 100mΩ	ILIM = GND	1, 2, 3		5.6	7.5	A	
			R _{ILIM_T} = 100kΩ, R _{ILIM_B} = 49.9kΩ	1, 2, 3		9	11.9		20.5, 20.39, 20.73, 20.107
			R _{ILIM_T} = 49.9kΩ, R _{ILIM_B} = 100kΩ	1, 2, 3		13.4	17.8		20.10, 20.44, 20.78, 20.112
			ILIM = AVDD	1, 2, 3		18.3	24.9		20.7, 20.41, 20.75, 20.109
I _{OC_HS2}	High-side switch current limit threshold 2	VIN = 12V, R _{SHORT} ≈ 4mΩ	ILIM = GND			6.6		A	20.8, 20.42, 20.76, 20.110
			R _{ILIM_T} = 100kΩ, R _{ILIM_B} = 49.9kΩ			11.1			20.9, 20.43, 20.77, 20.111
			R _{ILIM_T} = 49.9kΩ, R _{ILIM_B} = 100kΩ			17			20.10, 20.44, 20.78, 20.112
			ILIM = AVDD			23.9			20.11, 20.45, 20.79, 20.113
I _{OC_LS(sink)}	Low-side switch sinking overcurrent threshold	T _A = −55°C		3	1.6	2.3	3.6	A	
		T _A = 25°C		1	1.5	2.2	3.3		19.2,19.5, 19.8, 19.11
		T _A = 125°C		2	1.4	2	2.8		
I _{LIM(lkg)}	ILIM input leakage current	ILIM = 7V		1, 2, 3		2	100	nA	15.2,15.16
COMP _{SHDN}	COMP shutdown voltage			1, 2, 3	1.7	1.9	2.1	V	22.1,22.7, 22.13,22.19
t _{COMP(delay)}	COMP shutdown delay					30		μs	
SOFT START AND TRACKING									
t _{SS}	Soft start time	V _{SS_TR} from 10% to 90%, V _{SNS} - = GND, V _{OUT(set)} = 3.3V	C _{SS} = 5.6nF			1.5		ms	22.4,22.10, 22.16,22.22
			C _{SS} = 22nF	9, 10, 11	4.7	5.8	7.3		22.5,22.11, 22.17,22.23
			C _{SS} = 100nF			24.7			22.6,22.12, 22.18,22.24
R _{SS(discharge)}	Soft start discharge pull-down resistor			1, 2, 3	200	442	700	Ω	22.2,22.8, 22.14,22.20
SS _{startup}	Maximum voltage on SS before startup (5)					20		mV	22.3,22.9, 22.15,22.21

Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER			TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
SLOPE COMPENSATION										
SC	Slope compensation with 18.3A (typ) current limit	f _{SW} = 100kHz, ILIM = AVDD	R _{SC} = 1.1MΩ			−0.7		A/μs		
		f _{SW} = 500kHz, ILIM = AVDD	R _{SC} = 80.6kΩ			−8.8				
			R _{SC} = 196kΩ			−4.2				
			R _{SC} = 1.1MΩ			−1.2				
			R _{SC} = 80.6kΩ			−10.5				
		f _{SW} = 1000kHz, ILIM = AVDD	R _{SC} = 196kΩ			−5.1				
		R _{SC} = 1.1MΩ			−2.1					
	Slope compensation with 13.4A (typ) current limit	f _{SW} = 500kHz, R _{ILIM_TOP} = 49.9kΩ, R _{ILIM_BOT} = 100kΩ	R _{SC} = 196kΩ			−3.2		A/μs		
	Slope compensation with 9A (typ) current limit	f _{SW} = 500kHz, R _{ILIM_TOP} = 100kΩ, R _{ILIM_BOT} = 49.9kΩ	R _{SC} = 196kΩ			−2.4		A/μs		
	Slope compensation with 5.6A (typ) current limit	f _{SW} = 500kHz, ILIM = GND	R _{SC} = 196kΩ			−1.8		A/μs		
MINIMUM ON TIME AND DEAD TIME										
t _{on(min)}	Minimum on time	50% to 50% of VIN, I _{SW} = 2A	VIN = 4.5V	9, 10, 11		210	235	ns	24.31	
			VIN = 5V	9, 10, 11		213	250		24.71	
			VIN = 12V	9, 10, 11		199	250		24.111	
			VIN = 14V	9, 10, 11		199	250		24.151	
t _{off(min)}	Minimum off time	I _{SW} = 2A				306		ns		
t _{dead}	Dead time					70		ns	24.4, 24.8, 24.12, 24.16	
SWITCHING FREQUENCY AND SYNCHRONIZATION										
f _{SW}	RT programmed switching frequency	R _{RT} = 511kΩ		4, 5, 6	90	100	120	kHz	24.14, 24.15, 24.54, 24.55, 24.94, 24.95, 24.134, 24.135	
		R _{RT} = 90.9kΩ		4, 5, 6	450	500	550		24.26, 24.27, 24.66, 24.67, 24.106, 24.107, 24.146, 24.147	
		R _{RT} = 40.2kΩ	VIN = 4.5V	4, 5, 6	850	1000	1150		24.28, 24.29	
			5V ≤ VIN ≤ 14V	4, 5, 6	870	1000	1170		24.68, 24.69, 24.108, 24.109, 24.148, 24.149	
t _{SYNC_R}	SYNC1 out low-to-high rise time (10% to 90%)	Cload = 25pF, see see SYNCx Rise and Fall Time		9, 10, 11		10	21	ns	24.18, 24.19, 24.58, 24.59, 24.98, 24.99, 24.138, 24.139	
t _{SYNC_F}	SYNC1 out high-to-low fall time (90% to 10%)	Cload = 25pF, see SYNCx Rise and Fall Time		9, 10, 11		10	21	ns	24.20, 24.21, 24.60, 24.61, 24.100, 24.101, 24.140, 24.141	
SYNC _{PH_2_1}	SYNC2 to SYNC1 rising edge phase shift	SYNCM = GND		9, 10, 11	82	90	98	°	24.17, 24.57, 24.97, 24.137	

Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
t _{SYNC_D}	SYNC1 to SW delay	Non-inverted SYNC1 input (SYNC2 = AVDD, SYNCM = AVDD)	VIN = 4.5V	9, 10, 11	140	225	350	ns	24.2
			5V ≤ VIN ≤ 14V	9, 10, 11	120	210	270		24.42, 24.82,24.122
			VIN = 12V, IOUT = 12A			224			
		Inverted SYNC1 input (SYNC2 = GND, SYNCM = AVDD)	VIN = 4.5V	9, 10, 11	150	256	390	ns	24.3
			5V ≤ VIN ≤ 14V	9, 10, 11	140	240	300		24.43, 24.83,24.123
			VIN = 12V, IOUT = 12A			246			
		SYNC1 output (SYNCM = GND)	VIN = 4.5V	9, 10, 11	110	180	280	ns	24.16
			5V ≤ VIN ≤ 14V	9, 10, 11	90	175	250		24.56, 24.96,24.136
			VIN = 12V, IOUT = 12A			184			
V _{SYNCx(OH)}	SYNC1, SYNC2 output high	SNYCM = GND, I _{OH} = 2mA	4.5V ≤ VIN ≤ 5V	1, 2, 3	VIN–0.3		V	24.22, 24.23,24.62, 24.63	
			VIN > 5V	1, 2, 3	4.5	5		5.2	24.102,24.103,24.142,24.143
V _{SYNCx(OL)}	SYNC1, SYNC2 output low	SYNCM = GND, I _{OL} = 2mA		1, 2, 3			0.4	V	24.24, 24.25,24.64, 24.65,24.104,24.105,24.144,24.145
V _{SYNC1(IH)}	SYNC1 input high threshold	SYNCM = AVDD		1, 2, 3			1.7	V	24.4,24.44, 24.84,24.124
V _{SYNC1(IL)}	SYNC1 input low threshold	SYNCM = AVDD		1, 2, 3	0.7				24.5,24.45, 24.85,24.125
f _{SYNC}	SYNC1 input frequency range	SYNCM = AVDD		4, 5, 6	100		1000	kHz	24.1,24.8, 24.9,24.41, 24.48,24.49, 24.81,24.88, 24.89,24.121,24.128,24.129
D _{SYNC}	SYNC1 input duty cycle range	SYNCM = AVDD, external clock duty cycle		4, 5, 6	40%		60%		24.10, 24.11,24.50, 24.51,24.90, 24.91,24.130,24.131
t _{CLK_E_I}	External clock to internal clock detection time	SYNCM = AVDD, RT populated		9, 10, 11		2	5	(1/f _{sw}) s	24.12, 24.52,24.92, 24.132
t _{CLK_I_E}	Internal clock to external clock detection time	SYNCM = AVDD, RT populated		9, 10, 11		1	2	(1/f _{sw}) s	24.13, 24.53,24.93, 24.133
POWER GOOD AND THERMAL SHUTDOWN									
PWRGD _{LOW_F%}	PWRGD falling threshold (fault), low	Threshold for PWRGD (VSENSE as percent of V _{REF}), VSNS– = 0V	VSENSE falling	1, 2, 3	90%	92%	95%		23.2,23.9, 23.16,23.23
PWRGD _{LOW_R%}	PWRGD rising threshold (good), low		VSENSE rising	1, 2, 3	93%	95%	98%		23.3,23.10, 23.17,23.24
PWRGD _{HIGH_R%}	PWRGD rising threshold (fault), high		VSENSE rising	1, 2, 3	106%	108%	112%		23.4,23.11, 23.18,23.25
PWRGD _{HIGH_F%}	PWRGD falling threshold (good), high		VSENSE falling	1, 2, 3	103%	105%	109%		23.5,23.12, 23.19,23.26
I _{PWRGD(LKG)}	Output high leakage	VSENSE = V _{REF} , V _{PWRGD} = 7V		1, 2, 3		50	500	nA	23.6,23.13, 23.20,23.27
V _{PWRGD (OL)}	Power good output low	I _{PWRGD (SINK)} = 0mA to 2mA		1, 2, 3		250	300	mV	23.7,23.14, 23.21,23.28

Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS	
V _{IN(MIN_PWRG D)}	Minimum VIN for valid PWRGD output	Measured when V _{PWRGD} ≤ 0.5V at 100μA		1, 2, 3		1	2	V	23.1	
T _{SD(enter)}	Thermal shutdown enter temperature					170		°C		
T _{SD(exit)}	Thermal shutdown exit temperature					135				
T _{SD(HYS)}	Thermal shutdown hysteresis					35				
MOSFET										
R _{DS_ON_HS}	High-side switch resistance at I _{HS} = 12A (lead length ≈ 3mm)	PVIN = VIN = 4.5V	T _A = –55°C	3		38	53	mΩ		
			T _A = 25°C	1		50	61		20.2,20.3	
			T _A = 125°C	2		64	79			
		PVIN = VIN = 5V	T _A = –55°C	3		36	50			20.36, 20.37
			T _A = 25°C	1		48	60			
			T _A = 125°C	2		62	73			
		PVIN = VIN = 12V	T _A = –55°C	3		34	45			20.70, 20.71
			T _A = 25°C	1		45	53			
			T _A = 125°C	2		59	67			
		PVIN = VIN = 14V	T _A = –55°C	3		34	45			20.104,20.105
			T _A = 25°C	1		45	53			
			T _A = 125°C	2		59	67			
R _{DS_ON_LS}	Low-side switch resistance at I _{LS} = 12A (lead length ≈ 3mm)	PVIN = VIN = 4.5V	T _A = –55°C	3		25	40	mΩ		
			T _A = 25°C	1		35	51		21.2,21.3	
			T _A = 125°C	2		51	61			
		PVIN = VIN = 5V	T _A = –55°C	3		23	35			21.8,21.9
			T _A = 25°C	1		33	45			
			T _A = 125°C	2		48	56			
		PVIN = VIN = 12V	T _A = –55°C	3		23	32			21.14, 21.15
			T _A = 25°C	1		33	42			
			T _A = 125°C	2		47	55			
		PVIN = VIN = 14V	T _A = –55°C	3		23	32			21.20, 21.21
			T _A = 25°C	1		33	42			
			T _A = 125°C	2		47	55			

Table 3-2. Data Sheet Electrical Parameter Characteristics - Plastic (HTSSOP) Package

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT
VOLTAGE REFERENCE AND REMOTE SENSE								
V _{REF}	Internal voltage reference (including error amplifier V _{IO})	see	T _A = –55°C	3	0.594	0.598	0.603	V
			T _A = 25°C	1	0.596	0.6	0.603	
			T _A = 125°C	2	0.597	0.599	0.604	
V _{REF(internal)}	Internal voltage reference (without error amplifier included)	V _{REF(internal)} = V _{SS_TR} – V _{SNS} -		1, 2, 3	0.593	0.6	0.607	V
ERROR AMPLIFIER								
g _{mps}	Power stage transconductance, 17.5A (typ) current limit	I _{OUT} = 12A, ILIM = AVDD	T _A = –55°C	3	13.6	19.4	24.8	S
			T _A = 25°C	1	13.6	20.1	26.1	
			T _A = 125°C	2	13.6	20.2	26.7	
g _{mps}	Power stage transconductance, 17.5A (typ) current limit	V _{COMP} = 0.6V, ILIM = AVDD		1, 2, 3	17.8	22.4	28.3	S
g _{mps}	Power stage transconductance, 9A (typ) current limit	V _{COMP} = 0.7V, R _{ILIM_TOP} = 100kΩ, R _{ILIM_BOT} = 49.9kΩ		1, 2, 3	8	11	15.5	S
g _{mps}	Power stage transconductance, 5.6A (typ) current limit	V _{COMP} = 0.75V, ILIM = GND		1, 2, 3	4.6	7.2	9.2	S

Table 3-2. Data Sheet Electrical Parameter Characteristics - Plastic (HTSSOP) Package (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT
OVERCURRENT PROTECTION								
I _{OC_HS1}	High-side switch current limit threshold 1	R _{SHORT} = 100mΩ	ILIM = GND	1, 2, 3		5.3	7.4	A
			R _{ILIM_T} = 100kΩ, R _{ILIM_B} = 49.9kΩ	1, 2, 3		8.6	11.7	
			R _{ILIM_T} = 49.9kΩ, R _{ILIM_B} = 100kΩ	1, 2, 3		12.8	17.5	
			ILIM = AVDD	1, 2, 3		17.5	24.3	
I _{OC_HS2}	High-side switch current limit threshold 2	VIN = 12V, R _{SHORT} ≈ 4mΩ	ILIM = GND			6.6		A
			R _{ILIM_T} = 100kΩ, R _{ILIM_B} = 49.9kΩ			11.1		
			R _{ILIM_T} = 49.9kΩ, R _{ILIM_B} = 100kΩ			17		
			ILIM = AVDD			23.9		
MOSFET								
R _{DS_ON_HS}	High-side switch resistance at I _{HS} = 12A	PVIN = VIN = 4.5V	T _A = −55°C	3		29	44	mΩ
			T _A = 25°C	1		37	50	
			T _A = 125°C	2		47	65	
		PVIN = VIN = 5V	T _A = −55°C	3		27	39	
			T _A = 25°C	1		35	47	
			T _A = 125°C	2		44	58	
		PVIN = VIN = 12V	T _A = −55°C	3		24	35	
			T _A = 25°C	1		31	43	
			T _A = 125°C	2		39	53	
		PVIN = VIN = 14V	T _A = −55°C	3		24	35	
			T _A = 25°C	1		31	43	
			T _A = 125°C	2		39	53	
R _{DS_ON_LS}	Low-side switch resistance at I _{LS} = 12A	PVIN = VIN = 4.5V	T _A = −55°C	3		20	33	mΩ
			T _A = 25°C	1		28	41	
			T _A = 125°C	2		41	52	
		PVIN = VIN = 5V	T _A = −55°C	3		20	31	
			T _A = 25°C	1		27	39	
			T _A = 125°C	2		39	49	
		PVIN = VIN = 12V	T _A = −55°C	3		19	28	
			T _A = 25°C	1		27	36	
			T _A = 125°C	2		38	48	
		PVIN = VIN = 14V	T _A = −55°C	3		19	28	
			T _A = 25°C	1		27	36	
			T _A = 125°C	2		38	48	

4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, [TPS7H4011-SP and TPS7H4011-SEP 4.5V to 14V Input 12A Radiation Hardened Synchronous Buck Converter](#), data sheet.
- Texas Instruments, [TPS7H4011-SP \(TPS7H4011EVM-CVAL\) Evaluation Module User's Guide](#), user's guide.

4.2 Reference Documents

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

A Appendix A: HDR Results

This appendix contains the HDR TID report data. The following decoder serves as a reference guide for the test parameters shown in the appendix:

Please reference [Table A-1](#) below for an example implementation of this decoder.

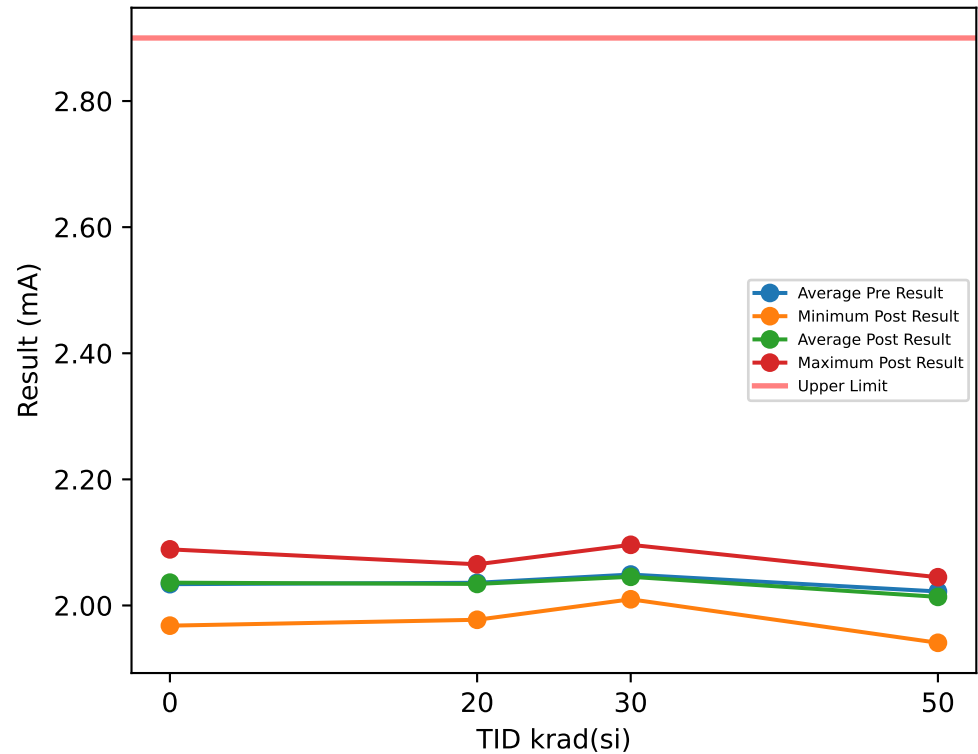
Table A-1. Decoder Implementation, Example Test: IDD|STATIC/VIN/14/////@VIN_SHDN_CURR_14V

Test Category	Header	Pin Name	Input Voltage	Load Current	Frequency Set Resistor Vluue	Condition	Specification Identifier
IDD	STATIC	VIN	14V	N/A	N/A	N/A	@VIN_SHDN_CURR_14

Note that the absence of identifiers in a parameter name indicates that the identifier is not applicable. For instance, this test does not have the device driving an external load, and thus no load current is specified.

Device Test: 12.1 IDD|STATIC/VIN/4.5////@VIN_SHDN_CURR_4V

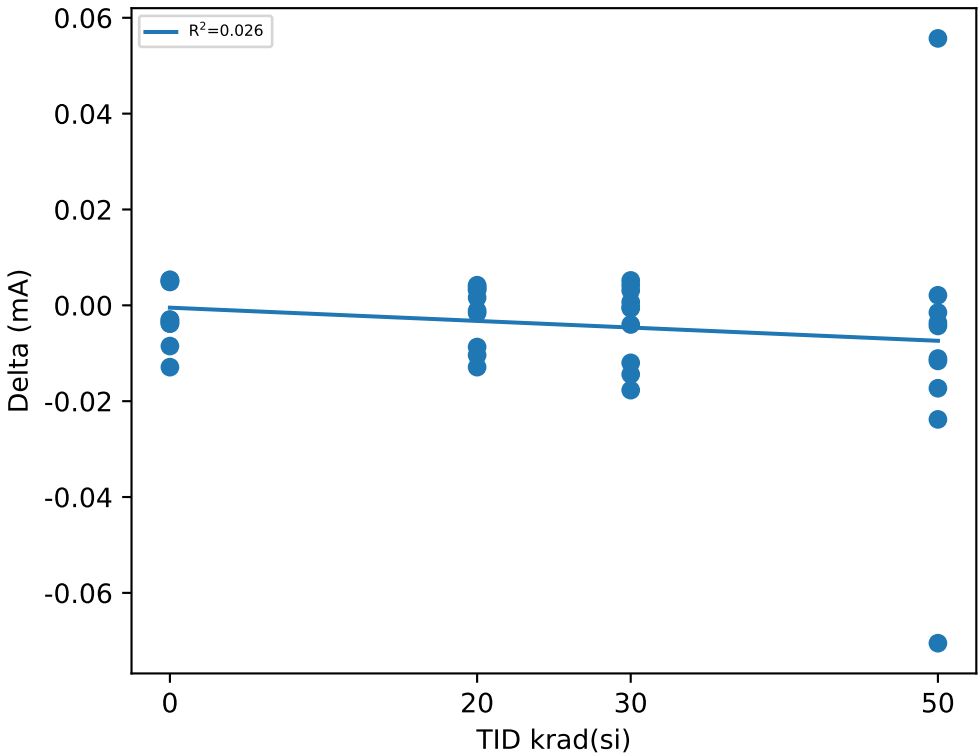
TID vs Result Stats



Test Results (Upper Limit = 2.9 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.9809	1.968	-0.0129
516	0	CORRELATION	2.0448	2.0363	-0.0085
721	0	CORRELATION	2.0609	2.0575	-0.0034
723	0	CORRELATION	2.092	2.089	-0.003
729	0	CORRELATION	1.9903	1.9956	0.0053
990	20	Unbiased	1.9903	1.9937	0.0034
991	20	Unbiased	2.0316	2.0358	0.0042
992	20	Unbiased	2.0631	2.0615	-0.0016
993	20	Unbiased	2.0117	2.0133	0.0016
994	20	Unbiased	2.0782	2.0653	-0.0129
995	20	Biased	2.0331	2.032	-0.0011
996	20	Biased	1.9877	1.9773	-0.0104
997	20	Biased	2.0413	2.0445	0.0032
998	20	Biased	2.0586	2.0625	0.0039
999	20	Biased	2.0643	2.0556	-0.0087
1020	30	Unbiased	2.0459	2.0339	-0.012
1021	30	Unbiased	2.0194	2.0225	0.0031
1022	30	Unbiased	2.0243	2.0237	-0.0006
1023	30	Unbiased	2.0275	2.0098	-0.0177
1024	30	Unbiased	2.0489	2.0449	-0.004
1025	30	Biased	2.0566	2.0618	0.0052
1026	30	Biased	2.0326	2.0333	0.0007
1027	30	Biased	2.0736	2.0778	0.0042
1028	30	Biased	2.0966	2.0962	-0.0004
1029	30	Biased	2.0651	2.0507	-0.0144
1030	50	Unbiased	2.0198	2.0082	-0.0116
1031	50	Unbiased	1.9451	1.9408	-0.0043
1032	50	Unbiased	2.0686	2.0448	-0.0238
1033	50	Unbiased	2.0154	2.0043	-0.0111
1034	50	Unbiased	2.0295	2.0259	-0.0036
1035	50	Biased-84Hr-Anneal	2.0298	2.0125	-0.0173
1036	50	Biased-84Hr-Anneal	2.0371	2.0392	0.0021
1037	50	Biased-84Hr-Anneal	2.0443	2.0428	-0.0015
1038	50	Biased-84Hr-Anneal	2.046	1.9755	-0.0705
1039	50	Biased-84Hr-Anneal	1.9864	2.0421	0.0557

TID vs Post - Pre Exposure Delta

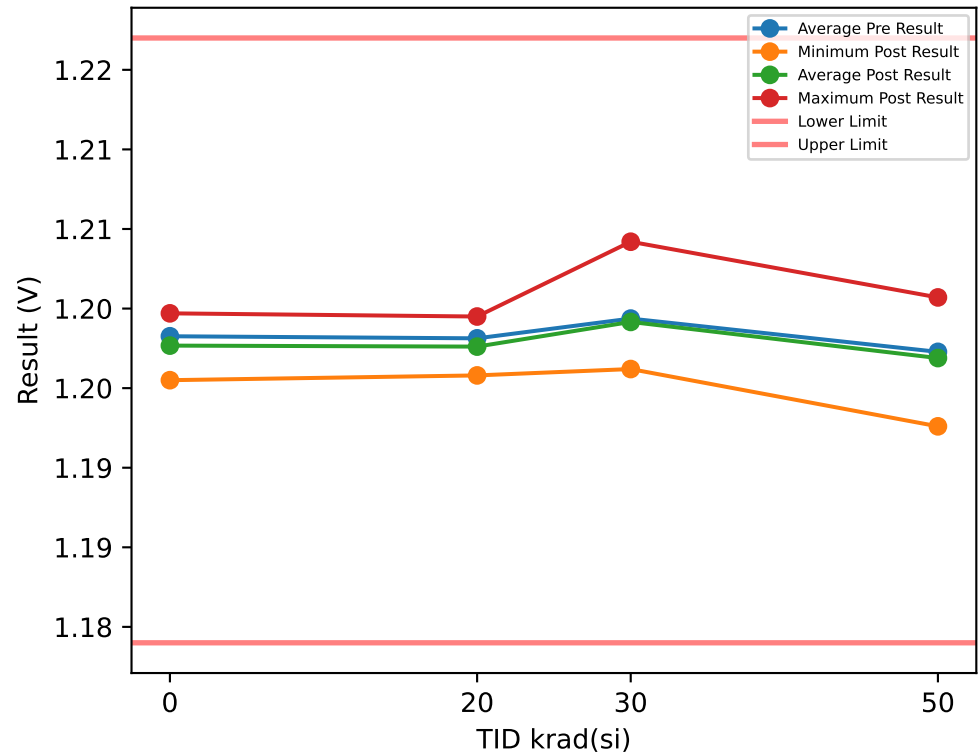


Test Statistics (mA)

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	1.9809	2.0338	2.092	0.047258	1.968	2.0293	2.089	0.048223	-0.0129	-0.0045	0.0053	0.0068202
20	1.9877	2.036	2.0782	0.031437	1.9773	2.0341	2.0653	0.03055	-0.0129	-0.00184	0.0042	0.0064755
30	2.0194	2.0491	2.0966	0.024529	2.0098	2.0455	2.0962	0.02681	-0.0177	-0.00359	0.0052	0.0082129
50	1.9451	2.0222	2.0686	0.034671	1.9408	2.0136	2.0448	0.033851	-0.0705	-0.00859	0.0557	0.030725

Device Test: 12.10 LEVEL|STATIC/REFCAP/5////@VBANDGAP

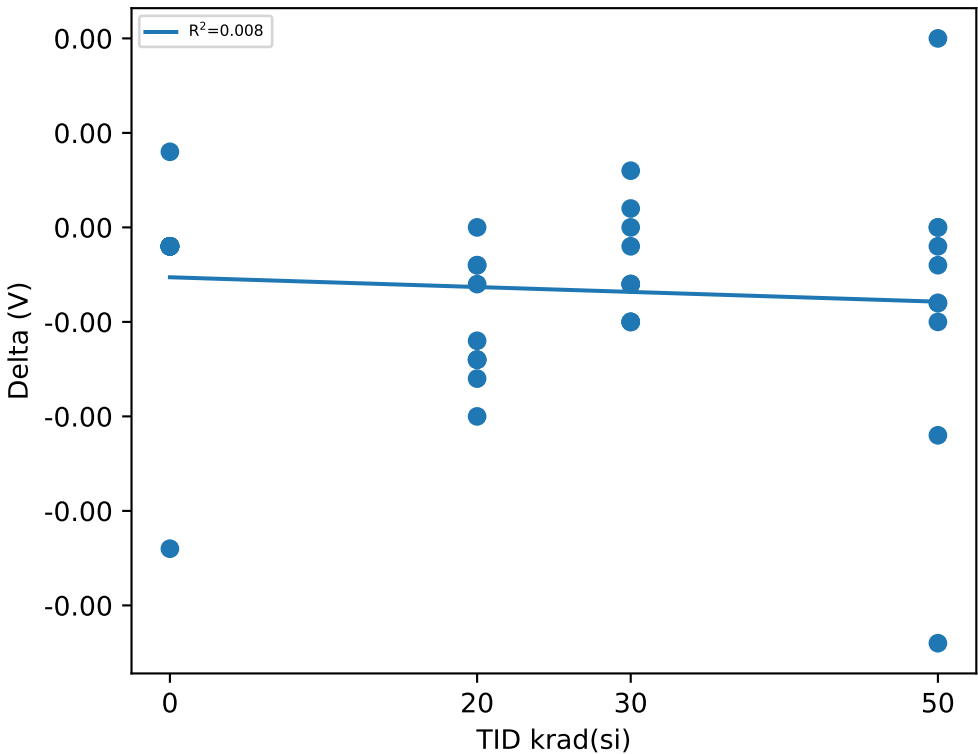
TID vs Result Stats



Test Results (Lower Limit = 1.184, Upper Limit = 1.222 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.2036	1.2019	-0.0017
516	0	CORRELATION	1.2028	1.2032	0.0004
721	0	CORRELATION	1.2048	1.2047	-0.0001
723	0	CORRELATION	1.2045	1.2044	-0.0001
729	0	CORRELATION	1.2006	1.2005	-0.0001
990	20	Unbiased	1.2029	1.2022	-0.0007
991	20	Unbiased	1.2038	1.2028	-0.001
992	20	Unbiased	1.2051	1.2045	-0.0006
993	20	Unbiased	1.2044	1.2042	-0.0002
994	20	Unbiased	1.2016	1.2014	-0.0002
995	20	Biased	1.2015	1.2008	-0.0007
996	20	Biased	1.2033	1.2026	-0.0007
997	20	Biased	1.2023	1.2015	-0.0008
998	20	Biased	1.2031	1.2031	0
999	20	Biased	1.2033	1.203	-0.0003
1020	30	Unbiased	1.2017	1.2012	-0.0005
1021	30	Unbiased	1.2047	1.2044	-0.0003
1022	30	Unbiased	1.2035	1.203	-0.0005
1023	30	Unbiased	1.2039	1.2036	-0.0003
1024	30	Unbiased	1.2095	1.2092	-0.0003
1025	30	Biased	1.2031	1.2034	0.0003
1026	30	Biased	1.2021	1.202	-0.0001
1027	30	Biased	1.2078	1.2079	0.0001
1028	30	Biased	1.2023	1.2018	-0.0005
1029	30	Biased	1.2051	1.2051	0
1030	50	Unbiased	1.2029	1.2028	-0.0001
1031	50	Unbiased	1.2048	1.2044	-0.0004
1032	50	Unbiased	1.2057	1.2057	0
1033	50	Unbiased	1.1987	1.1976	-0.0011
1034	50	Unbiased	1.1986	1.1982	-0.0004
1035	50	Biased-84Hr-Anneal	1.2048	1.2046	-0.0002
1036	50	Biased-84Hr-Anneal	1.2016	1.2016	0
1037	50	Biased-84Hr-Anneal	1.2011	1.2006	-0.0005
1038	50	Biased-84Hr-Anneal	1.2017	1.2027	0.001
1039	50	Biased-84Hr-Anneal	1.2029	1.2007	-0.0022

TID vs Post - Pre Exposure Delta

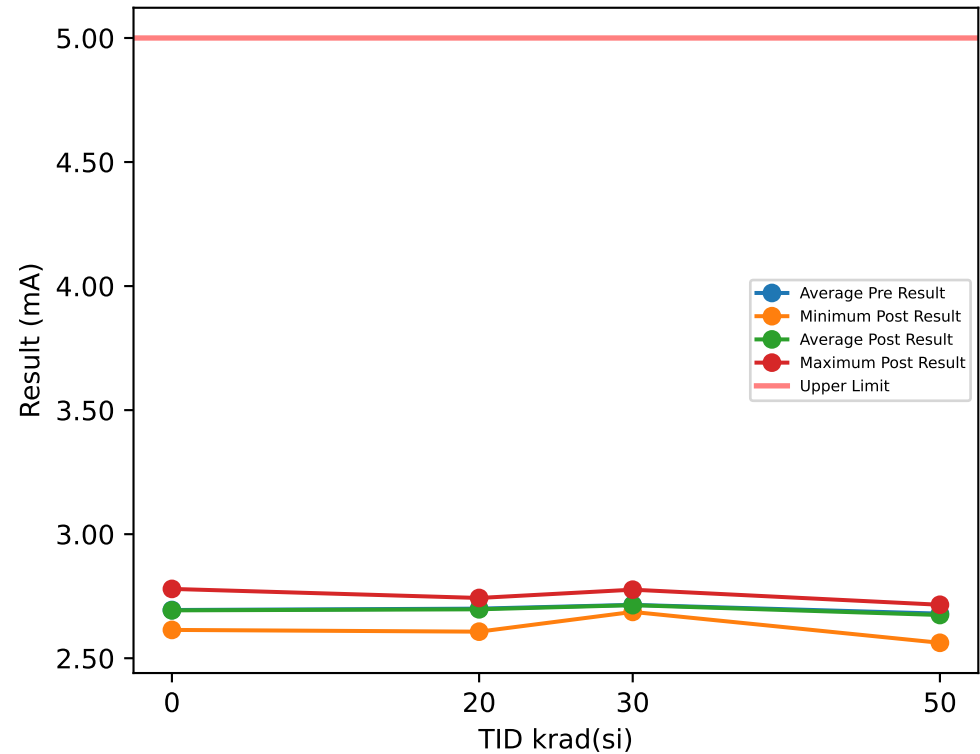


Test Statistics (V)

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	1.2006	1.2033	1.2048	0.0016817	1.2005	1.2029	1.2047	0.0017558	-0.0017	-0.00032	0.0004	0.00080125
20	1.2015	1.2031	1.2051	0.0011422	1.2008	1.2026	1.2045	0.0011865	-0.001	-0.00052	0	0.00032249
30	1.2017	1.2044	1.2095	0.002536	1.2012	1.2042	1.2092	0.0026154	-0.0005	-0.00021	0.0003	0.00027669
50	1.1986	1.2023	1.2057	0.002443	1.1976	1.2019	1.2057	0.0026839	-0.0022	-0.00039	0.001	0.00082657

Device Test: 12.13 IQ|STATIC/VIN/12////@IQ_VIN

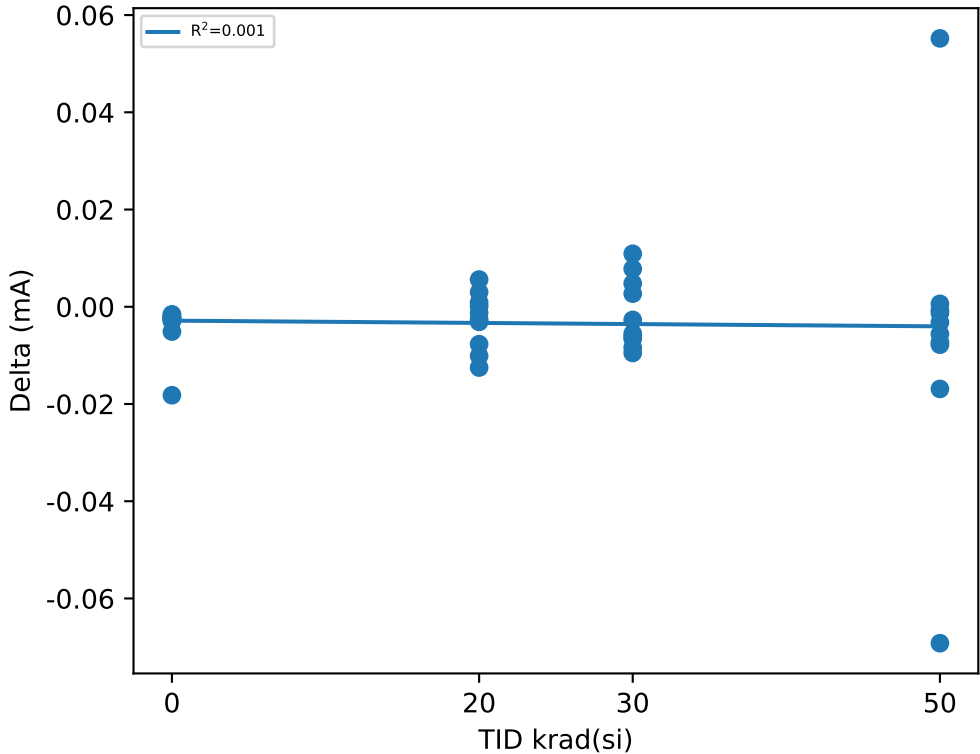
TID vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	2.6377	2.6195	-0.0182
516	0	CORRELATION	2.7131	2.708	-0.0051
721	0	CORRELATION	2.7231	2.7209	-0.0022
723	0	CORRELATION	2.781	2.7794	-0.0016
729	0	CORRELATION	2.617	2.6147	-0.0023
990	20	Unbiased	2.6531	2.6532	0.0001
991	20	Unbiased	2.6993	2.698	-0.0013
992	20	Unbiased	2.7506	2.7429	-0.0077
993	20	Unbiased	2.665	2.6659	0.0009
994	20	Unbiased	2.7432	2.7331	-0.0101
995	20	Biased	2.7065	2.7039	-0.0026
996	20	Biased	2.6102	2.6071	-0.0031
997	20	Biased	2.7068	2.7098	0.003
998	20	Biased	2.7278	2.7334	0.0056
999	20	Biased	2.7366	2.7241	-0.0125
1020	30	Unbiased	2.7156	2.7072	-0.0084
1021	30	Unbiased	2.6758	2.6867	0.0109
1022	30	Unbiased	2.6865	2.6943	0.0078
1023	30	Unbiased	2.6944	2.6882	-0.0062
1024	30	Unbiased	2.6959	2.6893	-0.0066
1025	30	Biased	2.7286	2.7313	0.0027
1026	30	Biased	2.6904	2.6877	-0.0027
1027	30	Biased	2.7649	2.7697	0.0048
1028	30	Biased	2.7818	2.7763	-0.0055
1029	30	Biased	2.7175	2.708	-0.0095
1030	50	Unbiased	2.6699	2.6621	-0.0078
1031	50	Unbiased	2.5616	2.5622	0.0006
1032	50	Unbiased	2.7324	2.7155	-0.0169
1033	50	Unbiased	2.6627	2.6554	-0.0073
1034	50	Unbiased	2.6981	2.6974	-0.0007
1035	50	Biased-84Hr-Anneal	2.6881	2.6825	-0.0056
1036	50	Biased-84Hr-Anneal	2.7011	2.6979	-0.0032
1037	50	Biased-84Hr-Anneal	2.7066	2.7053	-0.0013
1038	50	Biased-84Hr-Anneal	2.7223	2.6531	-0.0692
1039	50	Biased-84Hr-Anneal	2.6554	2.7106	0.0552

TID vs Post - Pre Exposure Delta

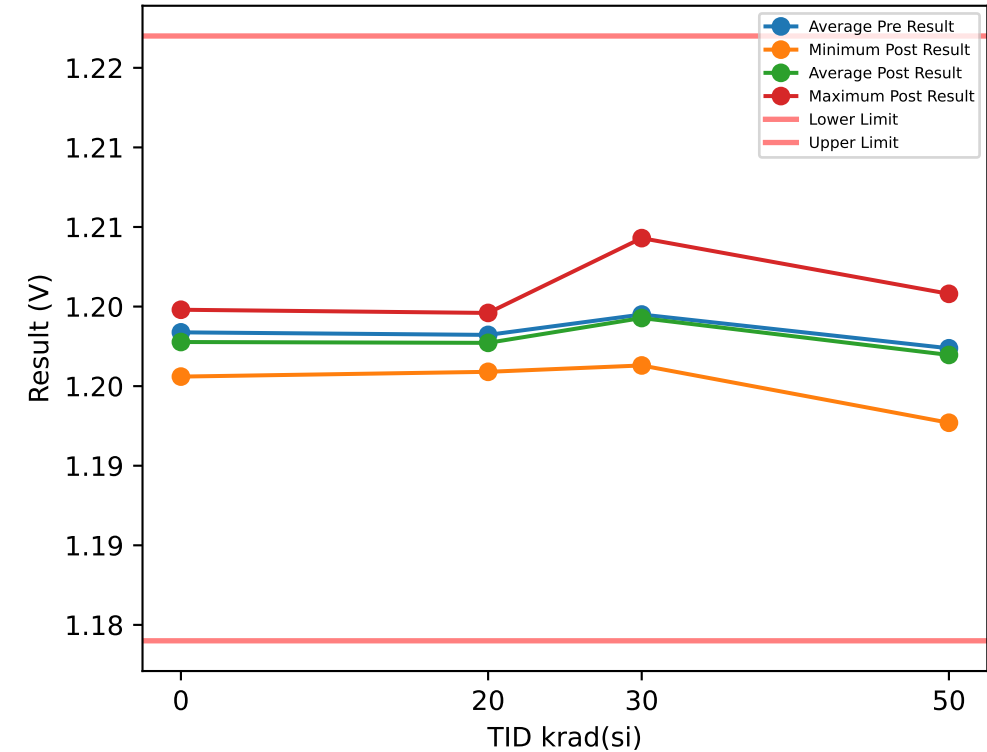


Test Statistics (mA)

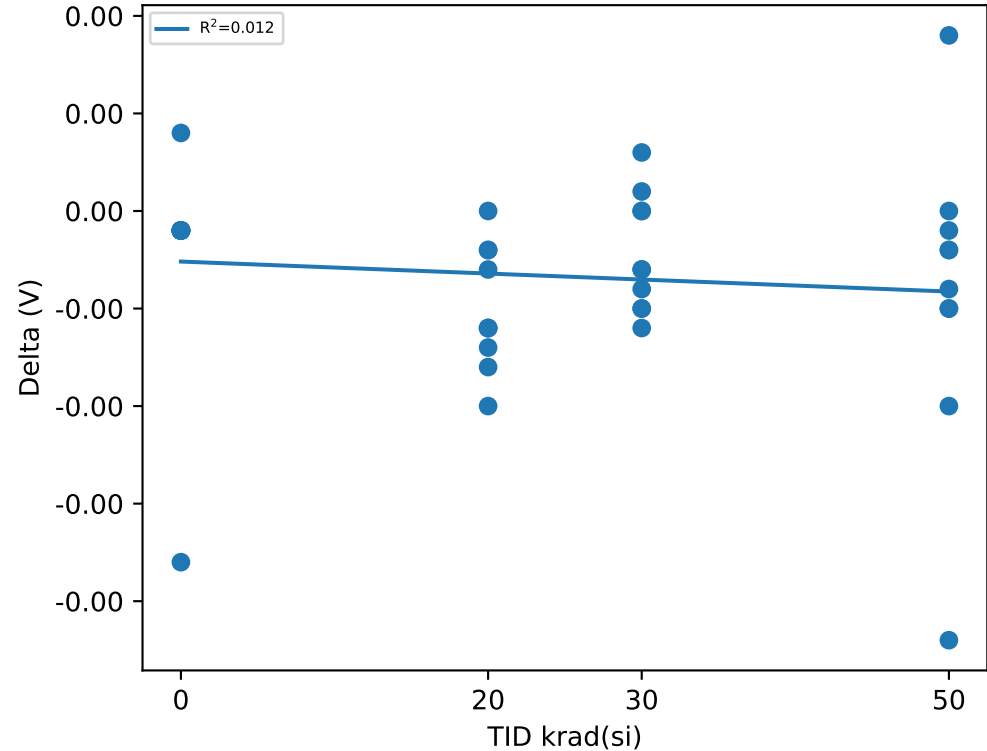
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.617	2.6944	2.781	0.066855	2.6147	2.6885	2.7794	0.070534	-0.0182	-0.00588	-0.0016	0.007019
20	2.6102	2.6999	2.7506	0.044866	2.6071	2.6971	2.7429	0.043011	-0.0125	-0.00277	0.0056	0.0057741
30	2.6758	2.7151	2.7818	0.03478	2.6867	2.7139	2.7763	0.034101	-0.0095	-0.00127	0.0109	0.0072587
50	2.5616	2.6798	2.7324	0.048426	2.5622	2.6742	2.7155	0.045529	-0.0692	-0.00562	0.0552	0.029747

Device Test: 12.15 LEVEL|STATIC/REFCAP/12////@VBANDGAP

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.184, Upper Limit = 1.222 (V))

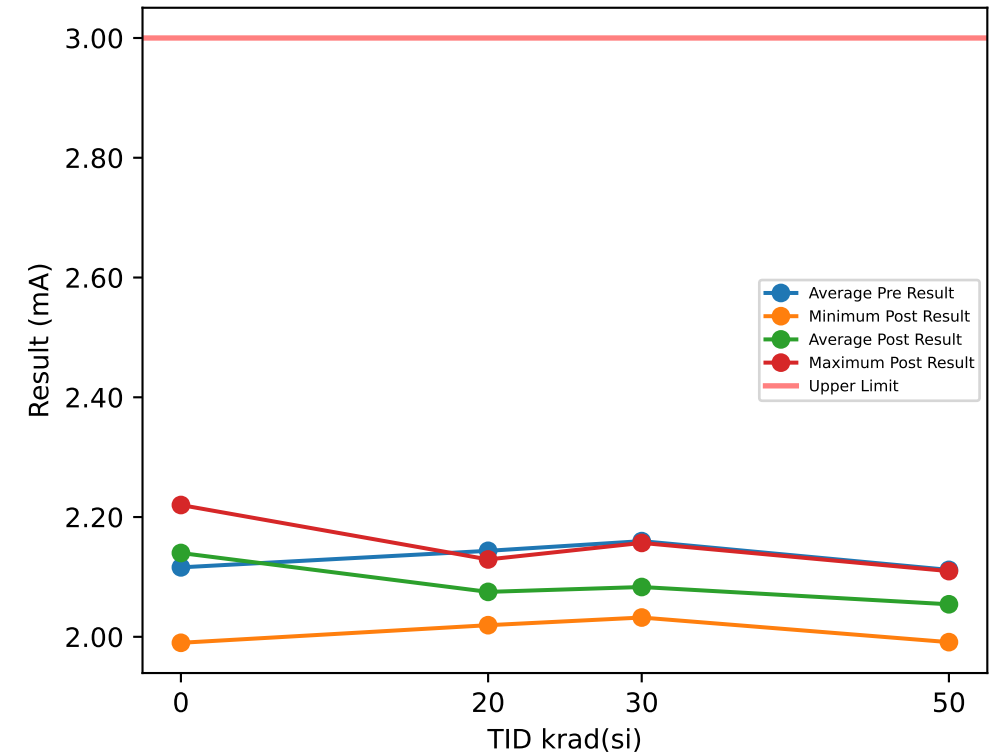
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.2038	1.202	-0.0018
516	0	CORRELATION	1.2029	1.2033	0.0004
721	0	CORRELATION	1.2049	1.2048	-0.0001
723	0	CORRELATION	1.2046	1.2045	-0.0001
729	0	CORRELATION	1.2007	1.2006	-0.0001
990	20	Unbiased	1.203	1.2024	-0.0006
991	20	Unbiased	1.2039	1.2029	-0.001
992	20	Unbiased	1.2052	1.2046	-0.0006
993	20	Unbiased	1.2045	1.2043	-0.0002
994	20	Unbiased	1.2017	1.2015	-0.0002
995	20	Biased	1.2016	1.2009	-0.0007
996	20	Biased	1.2033	1.2027	-0.0006
997	20	Biased	1.2024	1.2016	-0.0008
998	20	Biased	1.2032	1.2032	0
999	20	Biased	1.2034	1.2031	-0.0003
1020	30	Unbiased	1.2019	1.2013	-0.0006
1021	30	Unbiased	1.2049	1.2045	-0.0004
1022	30	Unbiased	1.2036	1.2031	-0.0005
1023	30	Unbiased	1.204	1.2037	-0.0003
1024	30	Unbiased	1.2096	1.2093	-0.0003
1025	30	Biased	1.2032	1.2035	0.0003
1026	30	Biased	1.2022	1.2022	0
1027	30	Biased	1.2079	1.208	0.0001
1028	30	Biased	1.2025	1.202	-0.0005
1029	30	Biased	1.2052	1.2052	0
1030	50	Unbiased	1.203	1.2028	-0.0002
1031	50	Unbiased	1.2049	1.2044	-0.0005
1032	50	Unbiased	1.2059	1.2058	-0.0001
1033	50	Unbiased	1.1987	1.1977	-0.001
1034	50	Unbiased	1.1987	1.1983	-0.0004
1035	50	Biased-84Hr-Anneal	1.2049	1.2047	-0.0002
1036	50	Biased-84Hr-Anneal	1.2017	1.2017	0
1037	50	Biased-84Hr-Anneal	1.2012	1.2007	-0.0005
1038	50	Biased-84Hr-Anneal	1.2018	1.2027	0.0009
1039	50	Biased-84Hr-Anneal	1.203	1.2008	-0.0022

Test Statistics (V)

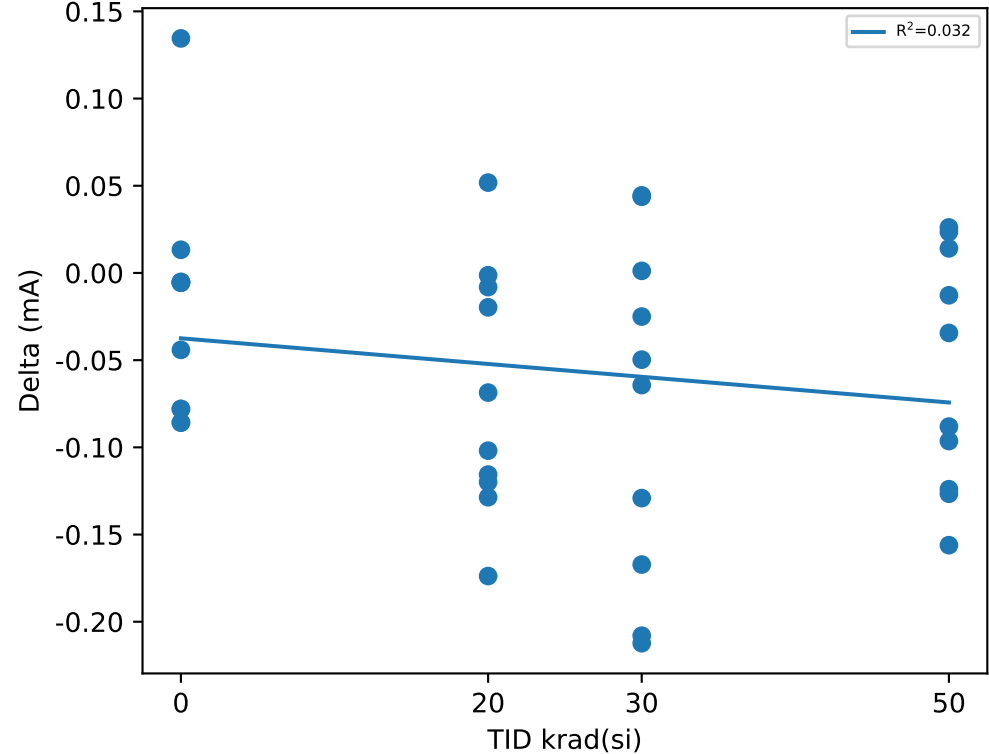
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2007	1.2034	1.2049	0.0016873	1.2006	1.203	1.2048	0.0017558	-0.0018	-0.00034	0.0004	0.00084439
20	1.2016	1.2032	1.2052	0.001141	1.2009	1.2027	1.2046	0.001183	-0.001	-0.0005	0	0.00031269
30	1.2019	1.2045	1.2096	0.0025171	1.2013	1.2043	1.2093	0.0025965	-0.0006	-0.00022	0.0003	0.00030111
50	1.1987	1.2024	1.2059	0.0024751	1.1977	1.202	1.2058	0.0026667	-0.0022	-0.00042	0.0009	0.00079134

Device Test: 12.16 IDD|STATIC/VIN/14////@VIN_SHDN_CURR_14V

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 3.0 (mA))

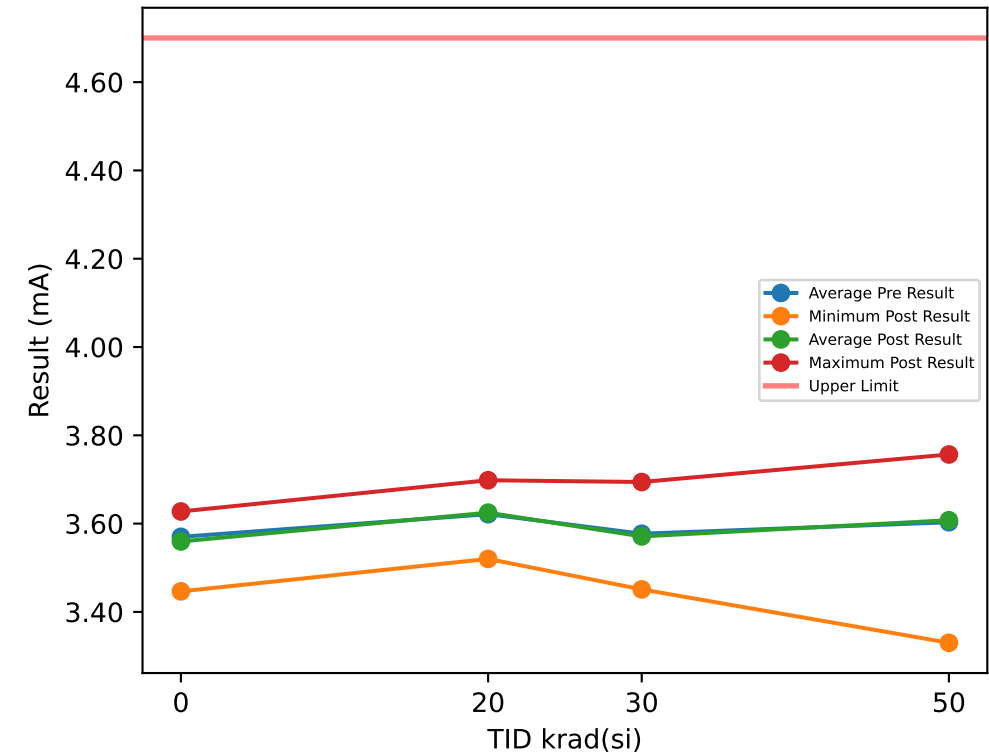
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	2.0341	1.99	-0.0441
516	0	CORRELATION	2.0584	2.0717	0.0133
721	0	CORRELATION	2.0856	2.2201	0.1345
723	0	CORRELATION	2.2405	2.1625	-0.078
729	0	CORRELATION	2.1613	2.1557	-0.0056
990	20	Unbiased	2.2387	2.0649	-0.1738
991	20	Unbiased	2.0424	2.0411	-0.0013
992	20	Unbiased	2.2225	2.1206	-0.1019
993	20	Unbiased	2.1034	2.0348	-0.0686
994	20	Unbiased	2.2438	2.1282	-0.1156
995	20	Biased	2.0515	2.0318	-0.0197
996	20	Biased	2.148	2.0194	-0.1286
997	20	Biased	2.0903	2.0822	-0.0081
998	20	Biased	2.2179	2.098	-0.1199
999	20	Biased	2.0774	2.1292	0.0518
1020	30	Unbiased	2.21	2.0428	-0.1672
1021	30	Unbiased	2.1028	2.0778	-0.025
1022	30	Unbiased	2.031	2.0322	0.0012
1023	30	Unbiased	2.1134	2.0637	-0.0497
1024	30	Unbiased	2.2186	2.0895	-0.1291
1025	30	Biased	2.0763	2.1208	0.0445
1026	30	Biased	2.1041	2.0398	-0.0643
1027	30	Biased	2.3322	2.1199	-0.2123
1028	30	Biased	2.1131	2.1568	0.0437
1029	30	Biased	2.2963	2.0883	-0.208
1030	50	Unbiased	2.0389	2.065	0.0261
1031	50	Unbiased	2.1151	1.9911	-0.124
1032	50	Unbiased	2.1043	2.0699	-0.0344
1033	50	Unbiased	2.1892	2.0331	-0.1561
1034	50	Unbiased	2.0477	2.0349	-0.0128
1035	50	Biased-84Hr-Anneal	2.0611	2.0752	0.0141
1036	50	Biased-84Hr-Anneal	2.1978	2.1097	-0.0881
1037	50	Biased-84Hr-Anneal	2.196	2.0694	-0.1266
1038	50	Biased-84Hr-Anneal	2.1416	2.0452	-0.0964
1039	50	Biased-84Hr-Anneal	2.0261	2.0496	0.0235

Test Statistics (mA)

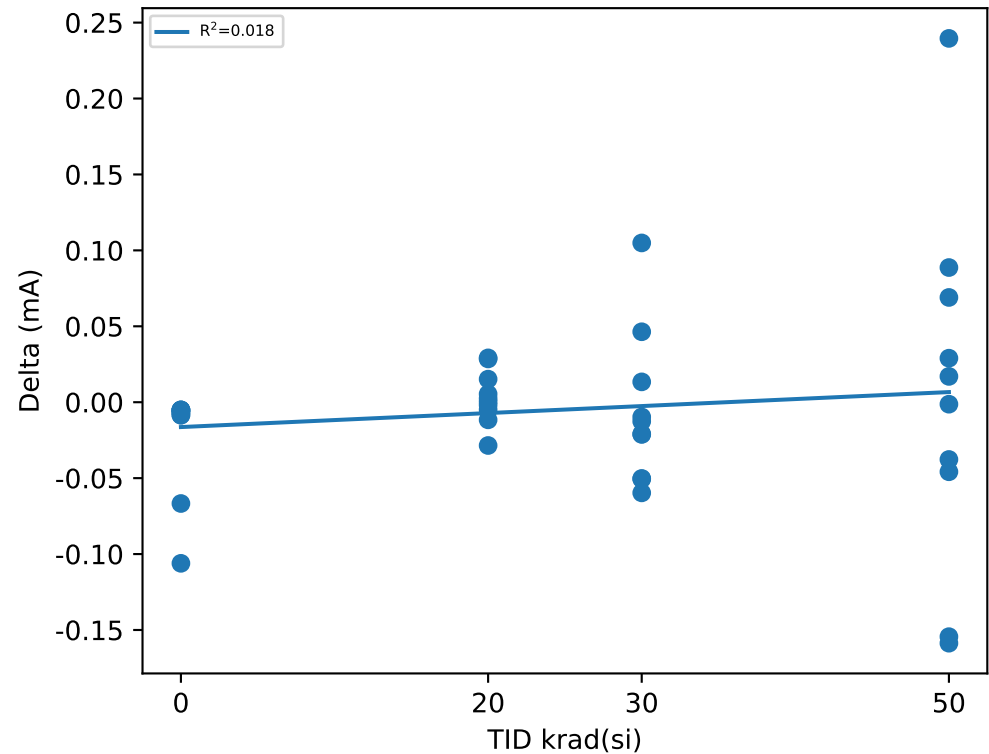
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.0341	2.116	2.2405	0.084412	1.99	2.12	2.2201	0.089908	-0.078	0.00402	0.1345	0.081004
20	2.0424	2.1436	2.2438	0.080562	2.0194	2.075	2.1292	0.042496	-0.1738	-0.06857	0.0518	0.071253
30	2.031	2.1598	2.3322	0.099207	2.0322	2.0832	2.1568	0.04051	-0.2123	-0.07662	0.0445	0.097395
50	2.0261	2.1118	2.1978	0.067305	1.9911	2.0543	2.1097	0.031652	-0.1561	-0.05747	0.0261	0.06878

Device Test: 12.17 IDD|STATIC/PVIN/14////@PVIN_SHDN_CURR_14V

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 4.7 (mA))

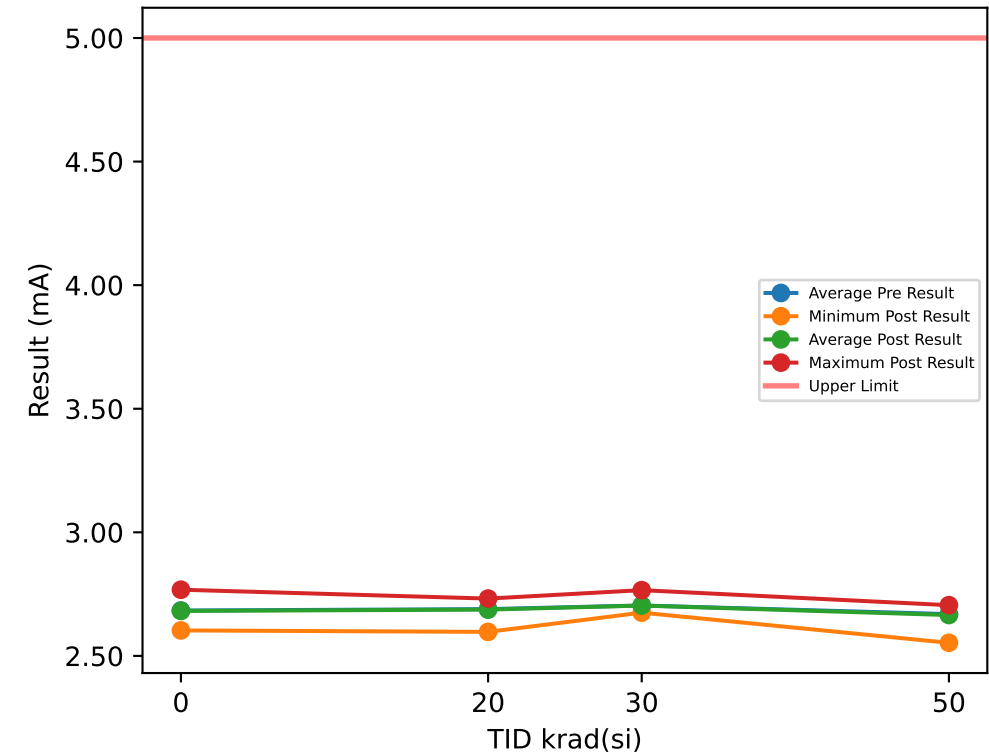
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.5526	3.4465	-0.1061
516	0	CORRELATION	3.5443	3.4776	-0.0667
721	0	CORRELATION	3.5748	3.5697	-0.0051
723	0	CORRELATION	3.6343	3.6275	-0.0068
729	0	CORRELATION	3.5439	3.5385	-0.0054
990	20	Unbiased	3.6264	3.6556	0.0292
991	20	Unbiased	3.6609	3.6663	0.0054
992	20	Unbiased	3.6259	3.6143	-0.0116
993	20	Unbiased	3.5981	3.6133	0.0152
994	20	Unbiased	3.6697	3.6982	0.0285
995	20	Biased	3.5485	3.5488	0.0003
996	20	Biased	3.6448	3.643	-0.0018
997	20	Biased	3.5249	3.52	-0.0049
998	20	Biased	3.6291	3.6316	0.0025
999	20	Biased	3.6853	3.6568	-0.0285
1020	30	Unbiased	3.5893	3.6942	0.1049
1021	30	Unbiased	3.509	3.4584	-0.0506
1022	30	Unbiased	3.5943	3.5846	-0.0097
1023	30	Unbiased	3.5718	3.5509	-0.0209
1024	30	Unbiased	3.6365	3.6829	0.0464
1025	30	Biased	3.5887	3.5675	-0.0212
1026	30	Biased	3.5012	3.451	-0.0502
1027	30	Biased	3.5558	3.5432	-0.0126
1028	30	Biased	3.6565	3.6699	0.0134
1029	30	Biased	3.5672	3.5075	-0.0597
1030	50	Unbiased	3.6727	3.6269	-0.0458
1031	50	Unbiased	3.6199	3.6369	0.017
1032	50	Unbiased	3.6355	3.6645	0.029
1033	50	Unbiased	3.685	3.754	0.069
1034	50	Unbiased	3.6679	3.7566	0.0887
1035	50	Biased-84Hr-Anneal	3.5954	3.5577	-0.0377
1036	50	Biased-84Hr-Anneal	3.6804	3.6791	-0.0013
1037	50	Biased-84Hr-Anneal	3.4844	3.33	-0.1544
1038	50	Biased-84Hr-Anneal	3.417	3.6566	0.2396
1039	50	Biased-84Hr-Anneal	3.5727	3.414	-0.1587

Test Statistics (mA)

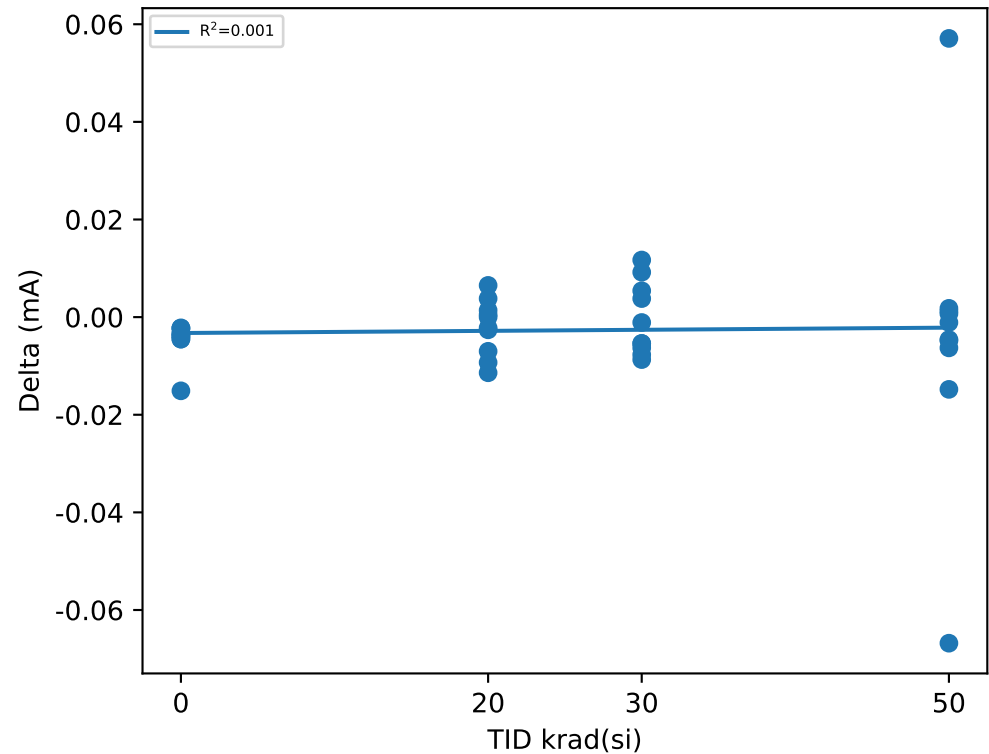
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5439	3.57	3.6343	0.038085	3.4465	3.532	3.6275	0.072204	-0.1061	-0.03802	-0.0051	0.046314
20	3.5249	3.6214	3.6853	0.051422	3.52	3.6248	3.6982	0.054223	-0.0285	0.00343	0.0292	0.0176
30	3.5012	3.577	3.6565	0.048751	3.451	3.571	3.6942	0.08817	-0.0597	-0.00602	0.1049	0.050286
50	3.417	3.6031	3.685	0.089916	3.33	3.6076	3.7566	0.1385	-0.1587	0.00454	0.2396	0.11714

Device Test: 12.18 IQ|STATIC/VIN/14/////@IQ_VIN

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (mA))

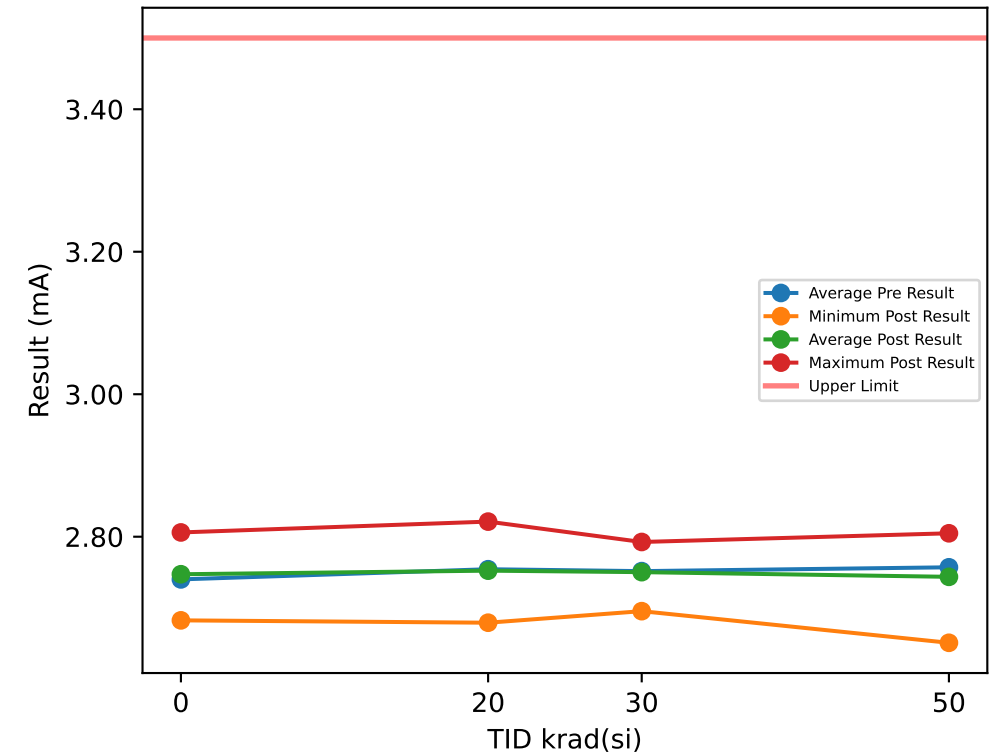
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	2.6268	2.6117	-0.0151
516	0	CORRELATION	2.7023	2.6983	-0.004
721	0	CORRELATION	2.7111	2.7089	-0.0022
723	0	CORRELATION	2.7701	2.7678	-0.0023
729	0	CORRELATION	2.6076	2.6038	-0.0038
990	20	Unbiased	2.6441	2.6446	0.0005
991	20	Unbiased	2.6881	2.6881	0
992	20	Unbiased	2.7389	2.7319	-0.007
993	20	Unbiased	2.6542	2.6556	0.0014
994	20	Unbiased	2.7329	2.7236	-0.0093
995	20	Biased	2.6963	2.6941	-0.0022
996	20	Biased	2.5998	2.5972	-0.0026
997	20	Biased	2.6955	2.6993	0.0038
998	20	Biased	2.7181	2.7246	0.0065
999	20	Biased	2.7252	2.7138	-0.0114
1020	30	Unbiased	2.7057	2.698	-0.0077
1021	30	Unbiased	2.6633	2.675	0.0117
1022	30	Unbiased	2.6763	2.6855	0.0092
1023	30	Unbiased	2.6845	2.6782	-0.0063
1024	30	Unbiased	2.6841	2.6787	-0.0054
1025	30	Biased	2.7172	2.721	0.0038
1026	30	Biased	2.6799	2.6788	-0.0011
1027	30	Biased	2.7523	2.7577	0.0054
1028	30	Biased	2.7714	2.766	-0.0054
1029	30	Biased	2.706	2.6973	-0.0087
1030	50	Unbiased	2.6593	2.6547	-0.0046
1031	50	Unbiased	2.5512	2.553	0.0018
1032	50	Unbiased	2.72	2.7052	-0.0148
1033	50	Unbiased	2.6538	2.6475	-0.0063
1034	50	Unbiased	2.6886	2.6898	0.0012
1035	50	Biased-84Hr-Anneal	2.6778	2.673	-0.0048
1036	50	Biased-84Hr-Anneal	2.689	2.6879	-0.0011
1037	50	Biased-84Hr-Anneal	2.6958	2.6965	0.0007
1038	50	Biased-84Hr-Anneal	2.711	2.6442	-0.0668
1039	50	Biased-84Hr-Anneal	2.6444	2.7015	0.0571

Test Statistics (mA)

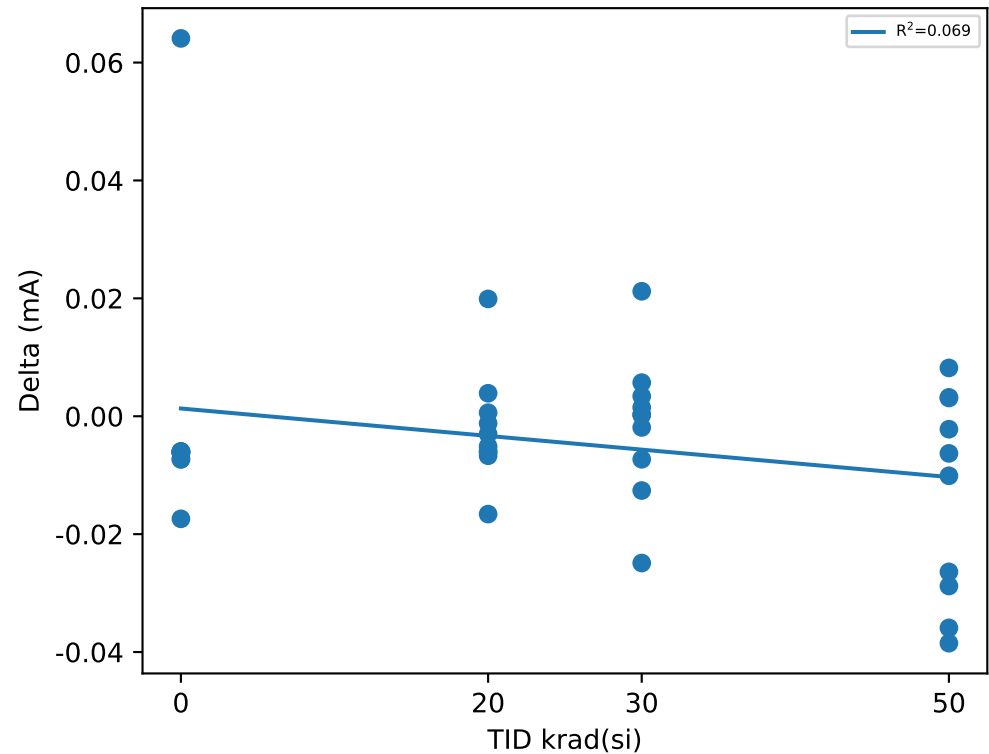
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6076	2.6836	2.7701	0.066314	2.6038	2.6781	2.7678	0.06952	-0.0151	-0.00548	-0.0022	0.0054412
20	2.5998	2.6893	2.7389	0.044539	2.5972	2.6873	2.7319	0.042866	-0.0114	-0.00203	0.0065	0.0057227
30	2.6633	2.7041	2.7714	0.034701	2.675	2.7036	2.766	0.033698	-0.0087	-0.00045	0.0117	0.0074334
50	2.5512	2.6691	2.72	0.048018	2.553	2.6653	2.7052	0.045377	-0.0668	-0.00376	0.0571	0.02961

Device Test: 12.2 IDD|STATIC/PVIN/4.5////@PVIN_SHDN_CURR_4V

TID vs Result Stats



TID vs Post - Pre Exposure Delta



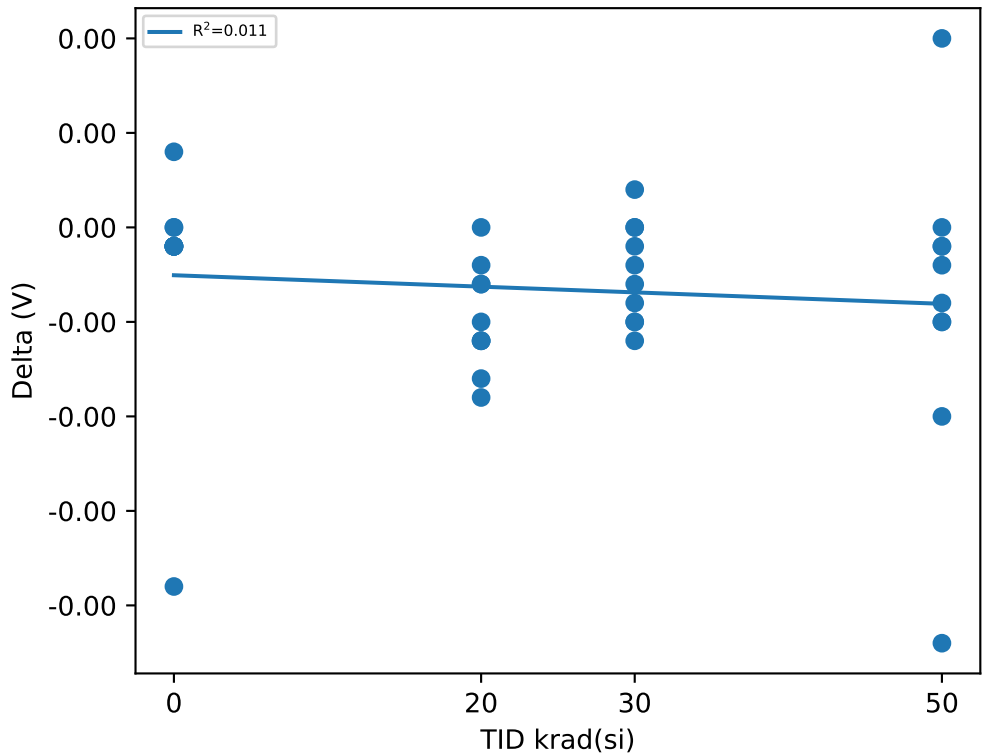
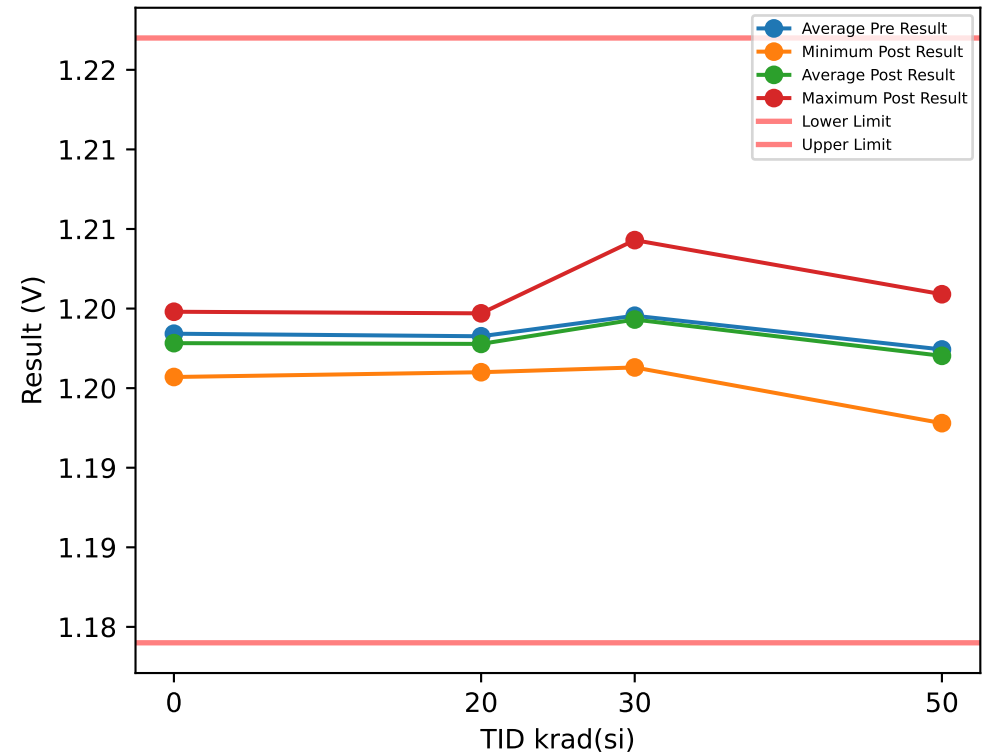
Test Results (Upper Limit = 3.5 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	2.7419	2.806	0.0641
516	0	CORRELATION	2.7	2.6826	-0.0174
721	0	CORRELATION	2.7485	2.7423	-0.0062
723	0	CORRELATION	2.7537	2.7477	-0.006
729	0	CORRELATION	2.7564	2.7504	-0.006
990	20	Unbiased	2.7745	2.7751	0.0006
991	20	Unbiased	2.6997	2.6946	-0.0051
992	20	Unbiased	2.8013	2.8212	0.0199
993	20	Unbiased	2.788	2.7868	-0.0012
994	20	Unbiased	2.8145	2.8084	-0.0061
995	20	Biased	2.7476	2.7417	-0.0059
996	20	Biased	2.7383	2.7422	0.0039
997	20	Biased	2.6868	2.6801	-0.0067
998	20	Biased	2.6959	2.6793	-0.0166
999	20	Biased	2.797	2.794	-0.003
1020	30	Unbiased	2.7197	2.7231	0.0034
1021	30	Unbiased	2.6952	2.6955	0.0003
1022	30	Unbiased	2.7206	2.7221	0.0015
1023	30	Unbiased	2.7699	2.7573	-0.0126
1024	30	Unbiased	2.779	2.7847	0.0057
1025	30	Biased	2.7392	2.7373	-0.0019
1026	30	Biased	2.766	2.7662	0.0002
1027	30	Biased	2.7471	2.7683	0.0212
1028	30	Biased	2.7999	2.7926	-0.0073
1029	30	Biased	2.7804	2.7555	-0.0249
1030	50	Unbiased	2.8389	2.8004	-0.0385
1031	50	Unbiased	2.7713	2.7744	0.0031
1032	50	Unbiased	2.7407	2.7439	0.0032
1033	50	Unbiased	2.7966	2.8048	0.0082
1034	50	Unbiased	2.7903	2.784	-0.0063
1035	50	Biased-84Hr-Anneal	2.7191	2.6903	-0.0288
1036	50	Biased-84Hr-Anneal	2.8277	2.8013	-0.0264
1037	50	Biased-84Hr-Anneal	2.7204	2.7103	-0.0101
1038	50	Biased-84Hr-Anneal	2.6787	2.6765	-0.0022
1039	50	Biased-84Hr-Anneal	2.687	2.6511	-0.0359

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.7	2.7401	2.7564	0.023089	2.6826	2.7458	2.806	0.043747	-0.0174	0.0057	0.0641	0.033013
20	2.6868	2.7544	2.8145	0.047667	2.6793	2.7523	2.8212	0.053155	-0.0166	-0.00202	0.0199	0.0094263
30	2.6952	2.7517	2.7999	0.032979	2.6955	2.7503	2.7926	0.030428	-0.0249	-0.00144	0.0212	0.012068
50	2.6787	2.7571	2.8389	0.056431	2.6511	2.7437	2.8048	0.057629	-0.0385	-0.01337	0.0082	0.01746

Device Test: 12.20 LEVEL|STATIC/REFCAP/14////@VBANDGAP



Test Results (Lower Limit = 1.184,
Upper Limit = 1.222 (V))

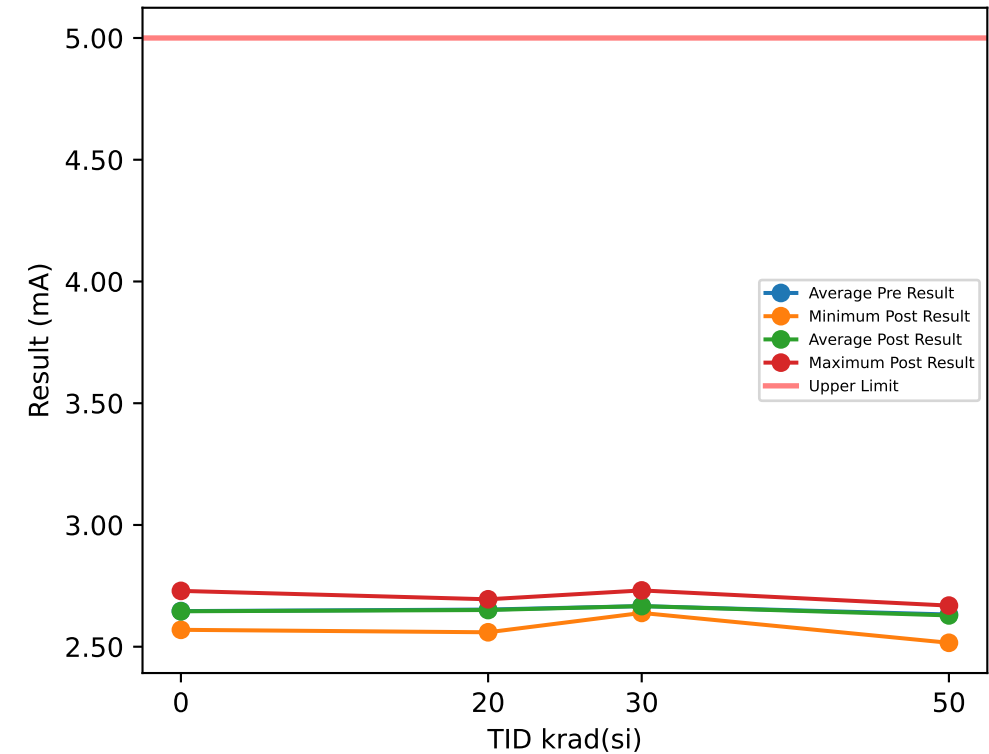
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.2039	1.202	-0.0019
516	0	CORRELATION	1.2029	1.2033	0.0004
721	0	CORRELATION	1.2049	1.2048	-0.0001
723	0	CORRELATION	1.2046	1.2046	0
729	0	CORRELATION	1.2008	1.2007	-0.0001
990	20	Unbiased	1.203	1.2024	-0.0006
991	20	Unbiased	1.2039	1.203	-0.0009
992	20	Unbiased	1.2052	1.2047	-0.0005
993	20	Unbiased	1.2046	1.2044	-0.0002
994	20	Unbiased	1.2018	1.2015	-0.0003
995	20	Biased	1.2016	1.201	-0.0006
996	20	Biased	1.2034	1.2028	-0.0006
997	20	Biased	1.2024	1.2016	-0.0008
998	20	Biased	1.2032	1.2032	0
999	20	Biased	1.2035	1.2032	-0.0003
1020	30	Unbiased	1.2019	1.2013	-0.0006
1021	30	Unbiased	1.2049	1.2046	-0.0003
1022	30	Unbiased	1.2037	1.2032	-0.0005
1023	30	Unbiased	1.204	1.2038	-0.0002
1024	30	Unbiased	1.2097	1.2093	-0.0004
1025	30	Biased	1.2033	1.2035	0.0002
1026	30	Biased	1.2022	1.2022	0
1027	30	Biased	1.208	1.208	0
1028	30	Biased	1.2025	1.202	-0.0005
1029	30	Biased	1.2053	1.2052	-0.0001
1030	50	Unbiased	1.203	1.2029	-0.0001
1031	50	Unbiased	1.205	1.2045	-0.0005
1032	50	Unbiased	1.2059	1.2059	0
1033	50	Unbiased	1.1988	1.1978	-0.001
1034	50	Unbiased	1.1988	1.1983	-0.0005
1035	50	Biased-84Hr-Anneal	1.2049	1.2047	-0.0002
1036	50	Biased-84Hr-Anneal	1.2018	1.2017	-0.0001
1037	50	Biased-84Hr-Anneal	1.2012	1.2008	-0.0004
1038	50	Biased-84Hr-Anneal	1.2018	1.2028	0.001
1039	50	Biased-84Hr-Anneal	1.2031	1.2009	-0.0022

Test Statistics (V)

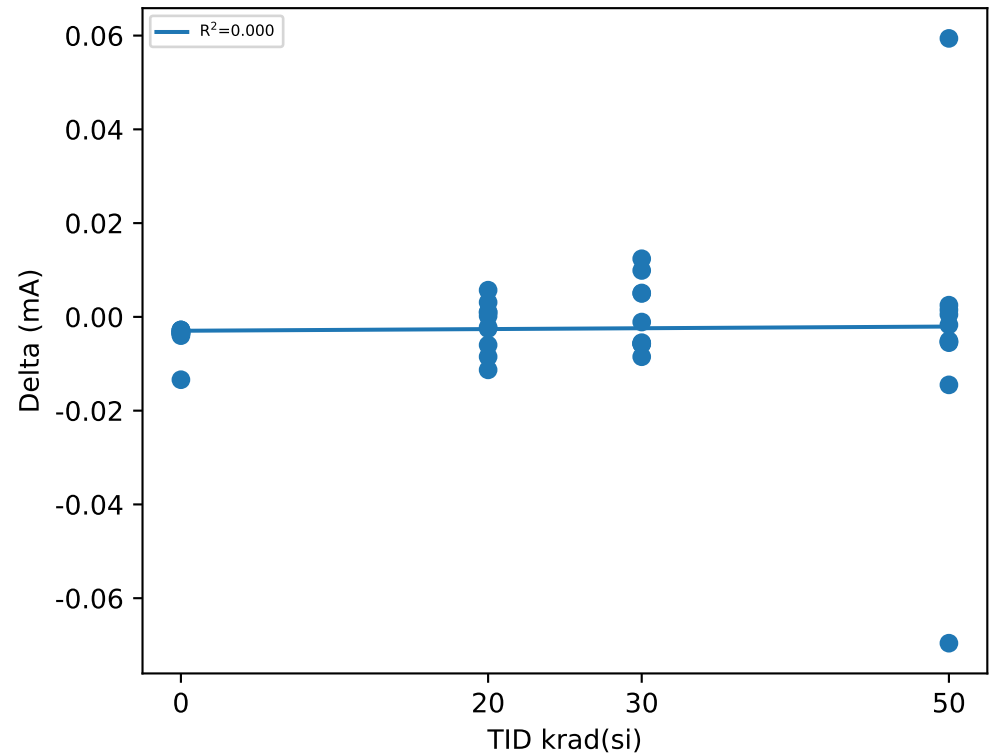
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2008	1.2034	1.2049	0.0016544	1.2007	1.2031	1.2048	0.0017427	-0.0019	-0.00034	0.0004	0.0008961
20	1.2016	1.2033	1.2052	0.0011423	1.201	1.2028	1.2047	0.0012044	-0.0009	-0.00048	0	0.00027809
30	1.2019	1.2046	1.2097	0.0025483	1.2013	1.2043	1.2093	0.0025903	-0.0006	-0.00024	0.0002	0.00026331
50	1.1988	1.2024	1.2059	0.0024536	1.1978	1.202	1.2059	0.0026721	-0.0022	-0.0004	0.001	0.00081377

Device Test: 12.3 IQ|STATIC/VIN/4.5////@IQ_VIN

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (mA))

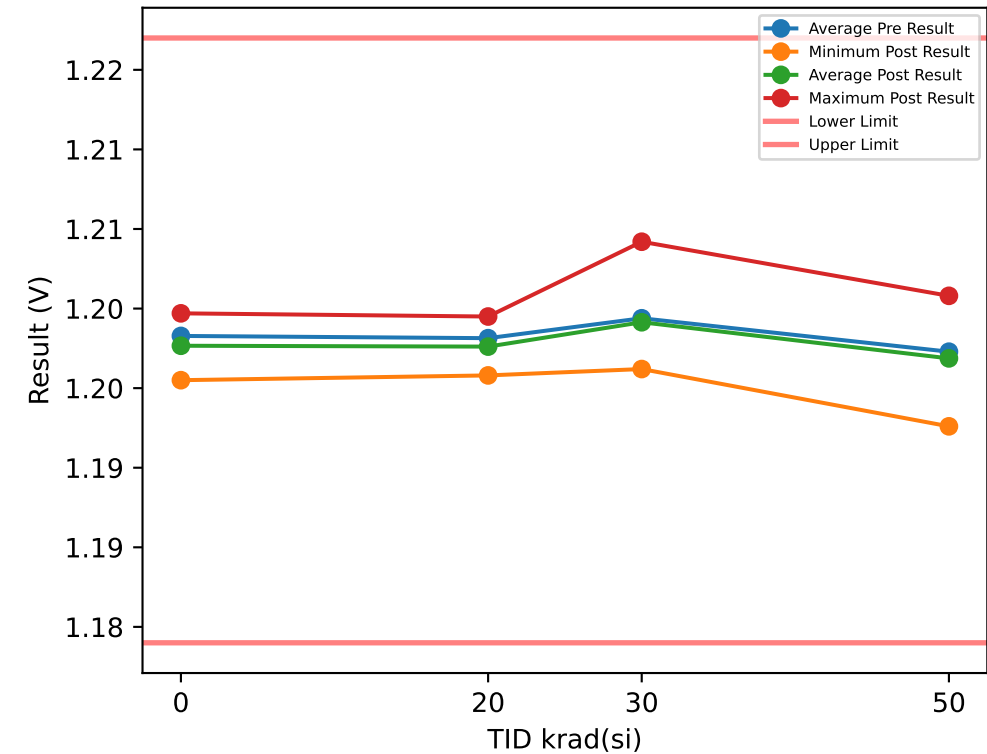
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	2.5865	2.5731	-0.0134
516	0	CORRELATION	2.6656	2.6616	-0.004
721	0	CORRELATION	2.6744	2.6716	-0.0028
723	0	CORRELATION	2.7321	2.7293	-0.0028
729	0	CORRELATION	2.573	2.5696	-0.0034
990	20	Unbiased	2.6078	2.6088	0.001
991	20	Unbiased	2.6519	2.6521	0.0002
992	20	Unbiased	2.7008	2.6948	-0.006
993	20	Unbiased	2.6149	2.6159	0.001
994	20	Unbiased	2.6964	2.6879	-0.0085
995	20	Biased	2.6592	2.6567	-0.0025
996	20	Biased	2.5615	2.5593	-0.0022
997	20	Biased	2.6604	2.6635	0.0031
998	20	Biased	2.684	2.6897	0.0057
999	20	Biased	2.6894	2.6781	-0.0113
1020	30	Unbiased	2.667	2.6613	-0.0057
1021	30	Unbiased	2.6283	2.6407	0.0124
1022	30	Unbiased	2.6397	2.6496	0.0099
1023	30	Unbiased	2.6452	2.6394	-0.0058
1024	30	Unbiased	2.6445	2.6388	-0.0057
1025	30	Biased	2.6768	2.6818	0.005
1026	30	Biased	2.6447	2.6436	-0.0011
1027	30	Biased	2.715	2.7201	0.0051
1028	30	Biased	2.7367	2.7312	-0.0055
1029	30	Biased	2.6698	2.6613	-0.0085
1030	50	Unbiased	2.6207	2.6152	-0.0055
1031	50	Unbiased	2.5136	2.5161	0.0025
1032	50	Unbiased	2.6834	2.6689	-0.0145
1033	50	Unbiased	2.6183	2.613	-0.0053
1034	50	Unbiased	2.6531	2.6546	0.0015
1035	50	Biased-84Hr-Anneal	2.6407	2.6356	-0.0051
1036	50	Biased-84Hr-Anneal	2.6525	2.6508	-0.0017
1037	50	Biased-84Hr-Anneal	2.6613	2.6618	0.0005
1038	50	Biased-84Hr-Anneal	2.6746	2.605	-0.0696
1039	50	Biased-84Hr-Anneal	2.6052	2.6646	0.0594

Test Statistics (mA)

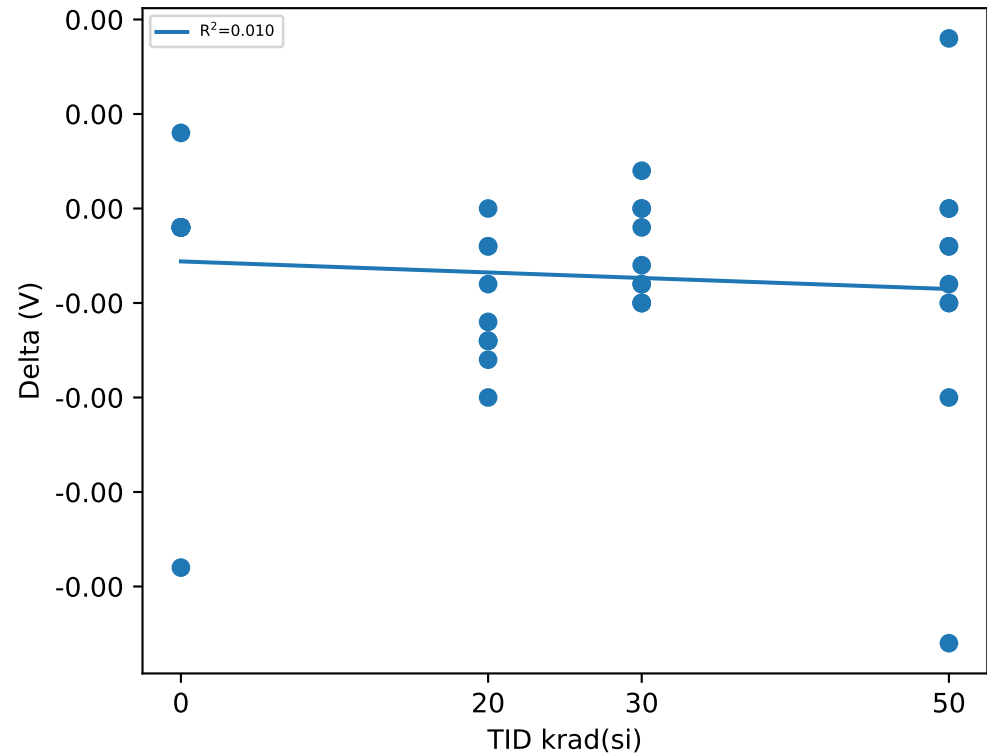
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.573	2.6463	2.7321	0.066092	2.5696	2.641	2.7293	0.068677	-0.0134	-0.00528	-0.0028	0.0045664
20	2.5615	2.6526	2.7008	0.045233	2.5593	2.6507	2.6948	0.043618	-0.0113	-0.00195	0.0057	0.0053035
30	2.6283	2.6668	2.7367	0.03494	2.6388	2.6668	2.7312	0.033869	-0.0085	1e-05	0.0124	0.0074915
50	2.5136	2.6323	2.6834	0.048657	2.5161	2.6286	2.6689	0.045797	-0.0696	-0.00378	0.0594	0.030797

Device Test: 12.5 LEVEL|STATIC/REFCAP/4.5////@VBANDGAP

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.184, Upper Limit = 1.222 (V))

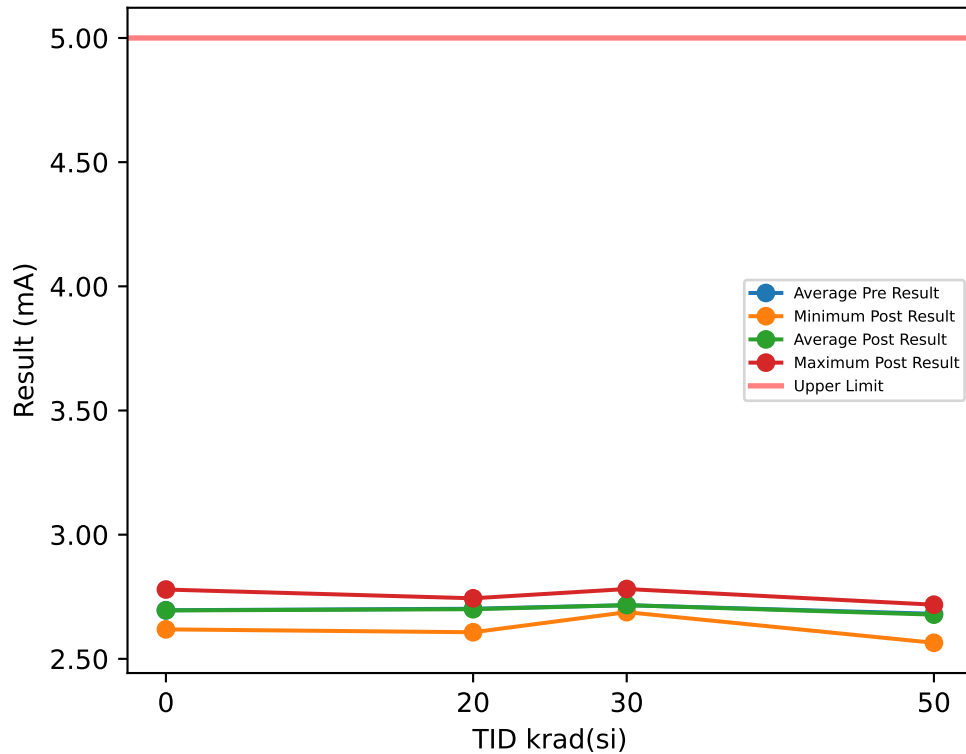
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.2037	1.2018	-0.0019
516	0	CORRELATION	1.2028	1.2032	0.0004
721	0	CORRELATION	1.2048	1.2047	-0.0001
723	0	CORRELATION	1.2045	1.2044	-0.0001
729	0	CORRELATION	1.2006	1.2005	-0.0001
990	20	Unbiased	1.2029	1.2022	-0.0007
991	20	Unbiased	1.2038	1.2028	-0.001
992	20	Unbiased	1.2051	1.2045	-0.0006
993	20	Unbiased	1.2044	1.2042	-0.0002
994	20	Unbiased	1.2016	1.2014	-0.0002
995	20	Biased	1.2015	1.2008	-0.0007
996	20	Biased	1.2033	1.2026	-0.0007
997	20	Biased	1.2023	1.2015	-0.0008
998	20	Biased	1.2031	1.2031	0
999	20	Biased	1.2034	1.203	-0.0004
1020	30	Unbiased	1.2017	1.2012	-0.0005
1021	30	Unbiased	1.2048	1.2044	-0.0004
1022	30	Unbiased	1.2035	1.203	-0.0005
1023	30	Unbiased	1.2039	1.2036	-0.0003
1024	30	Unbiased	1.2096	1.2092	-0.0004
1025	30	Biased	1.2031	1.2033	0.0002
1026	30	Biased	1.2021	1.202	-0.0001
1027	30	Biased	1.2079	1.2079	0
1028	30	Biased	1.2023	1.2018	-0.0005
1029	30	Biased	1.205	1.205	0
1030	50	Unbiased	1.2029	1.2027	-0.0002
1031	50	Unbiased	1.2048	1.2044	-0.0004
1032	50	Unbiased	1.2058	1.2058	0
1033	50	Unbiased	1.1986	1.1976	-0.001
1034	50	Unbiased	1.1986	1.1981	-0.0005
1035	50	Biased-84Hr-Anneal	1.2048	1.2046	-0.0002
1036	50	Biased-84Hr-Anneal	1.2016	1.2016	0
1037	50	Biased-84Hr-Anneal	1.2011	1.2006	-0.0005
1038	50	Biased-84Hr-Anneal	1.2017	1.2026	0.0009
1039	50	Biased-84Hr-Anneal	1.203	1.2007	-0.0023

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	1.2006	1.2033	1.2048	0.0016873	1.2005	1.2029	1.2047	0.0017712	-0.0019	-0.00036	0.0004	0.00088769
20	1.2015	1.2031	1.2051	0.0011443	1.2008	1.2026	1.2045	0.0011865	-0.001	-0.00053	0	0.0003164
30	1.2017	1.2044	1.2096	0.0025723	1.2012	1.2041	1.2092	0.002615	-0.0005	-0.00025	0.0002	0.00025495
50	1.1986	1.2023	1.2058	0.0024781	1.1976	1.2019	1.2058	0.0027084	-0.0023	-0.00042	0.0009	0.00082165

Device Test: 12.8 IQ|STATIC/VIN/5////@IQ_VIN

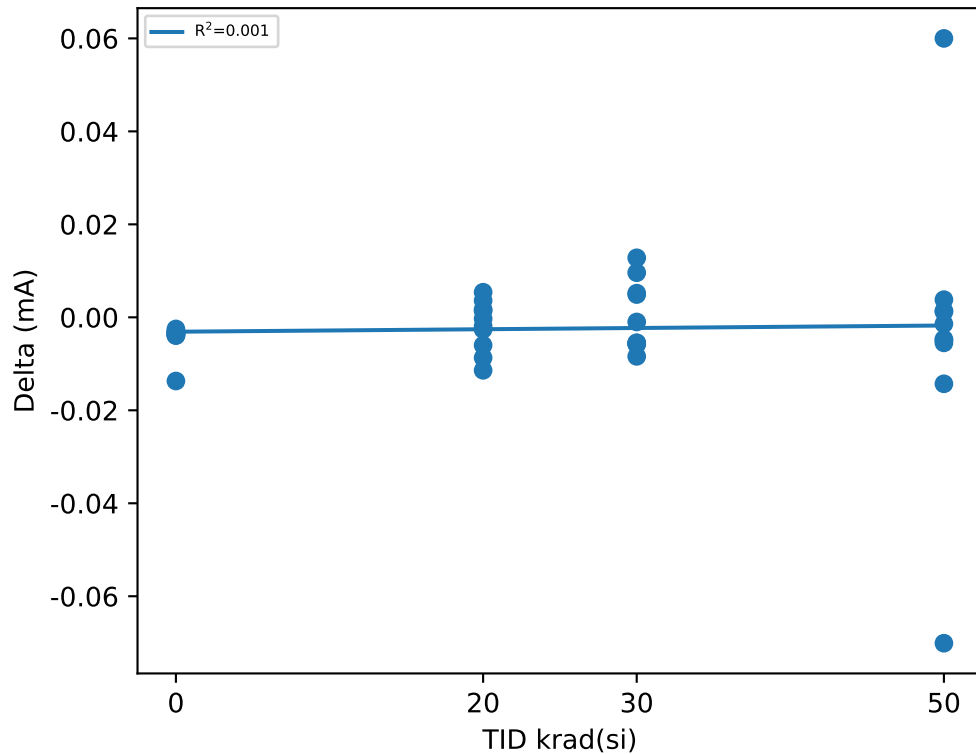
TID vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	2.6355	2.6218	-0.0137
516	0	CORRELATION	2.7149	2.7111	-0.0038
721	0	CORRELATION	2.7239	2.7214	-0.0025
723	0	CORRELATION	2.7821	2.7791	-0.003
729	0	CORRELATION	2.6222	2.6188	-0.0034
990	20	Unbiased	2.6563	2.6577	0.0014
991	20	Unbiased	2.7017	2.7014	-0.0003
992	20	Unbiased	2.7498	2.7438	-0.006
993	20	Unbiased	2.6639	2.6656	0.0017
994	20	Unbiased	2.7463	2.7376	-0.0087
995	20	Biased	2.7081	2.7055	-0.0026
996	20	Biased	2.609	2.6071	-0.0019
997	20	Biased	2.7095	2.7131	0.0036
998	20	Biased	2.7343	2.7397	0.0054
999	20	Biased	2.7385	2.7271	-0.0114
1020	30	Unbiased	2.7152	2.7095	-0.0057
1021	30	Unbiased	2.6777	2.6905	0.0128
1022	30	Unbiased	2.6897	2.6993	0.0096
1023	30	Unbiased	2.6935	2.688	-0.0055
1024	30	Unbiased	2.6939	2.6881	-0.0058
1025	30	Biased	2.7259	2.7308	0.0049
1026	30	Biased	2.6939	2.6929	-0.001
1027	30	Biased	2.7647	2.7699	0.0052
1028	30	Biased	2.7867	2.7812	-0.0055
1029	30	Biased	2.7192	2.7108	-0.0084
1030	50	Unbiased	2.6703	2.6648	-0.0055
1031	50	Unbiased	2.5608	2.5646	0.0038
1032	50	Unbiased	2.7323	2.718	-0.0143
1033	50	Unbiased	2.6681	2.6634	-0.0047
1034	50	Unbiased	2.7032	2.7046	0.0014
1035	50	Biased-84Hr-Anneal	2.6892	2.6843	-0.0049
1036	50	Biased-84Hr-Anneal	2.7016	2.7002	-0.0014
1037	50	Biased-84Hr-Anneal	2.7106	2.7118	0.0012
1038	50	Biased-84Hr-Anneal	2.7237	2.6536	-0.0701
1039	50	Biased-84Hr-Anneal	2.654	2.714	0.06

TID vs Post - Pre Exposure Delta

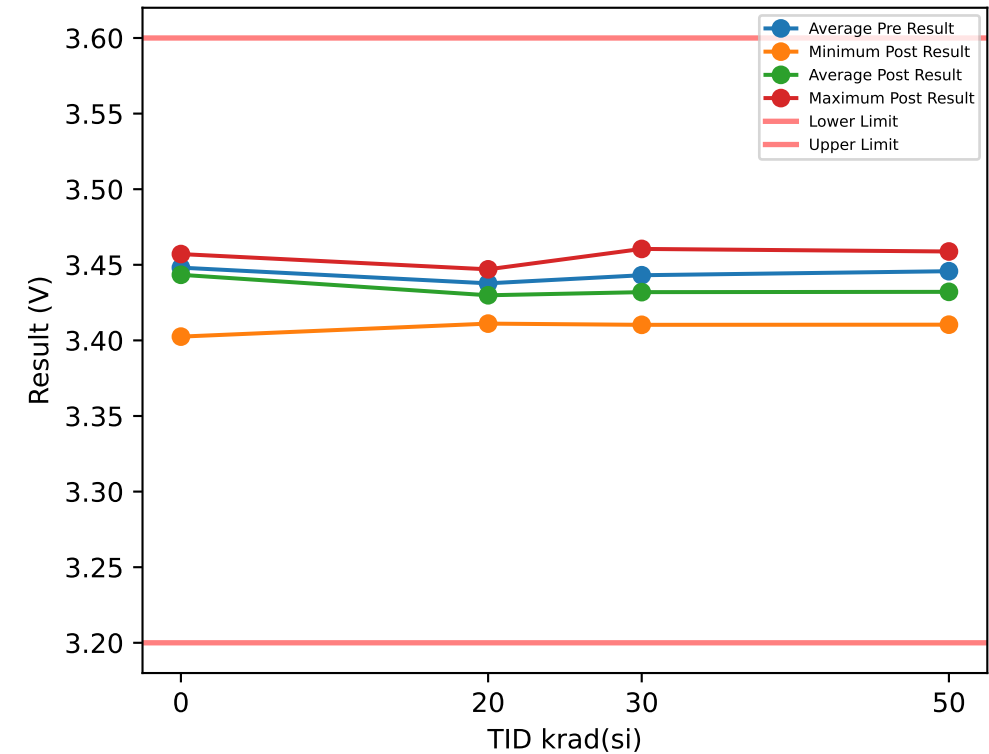


Test Statistics (mA)

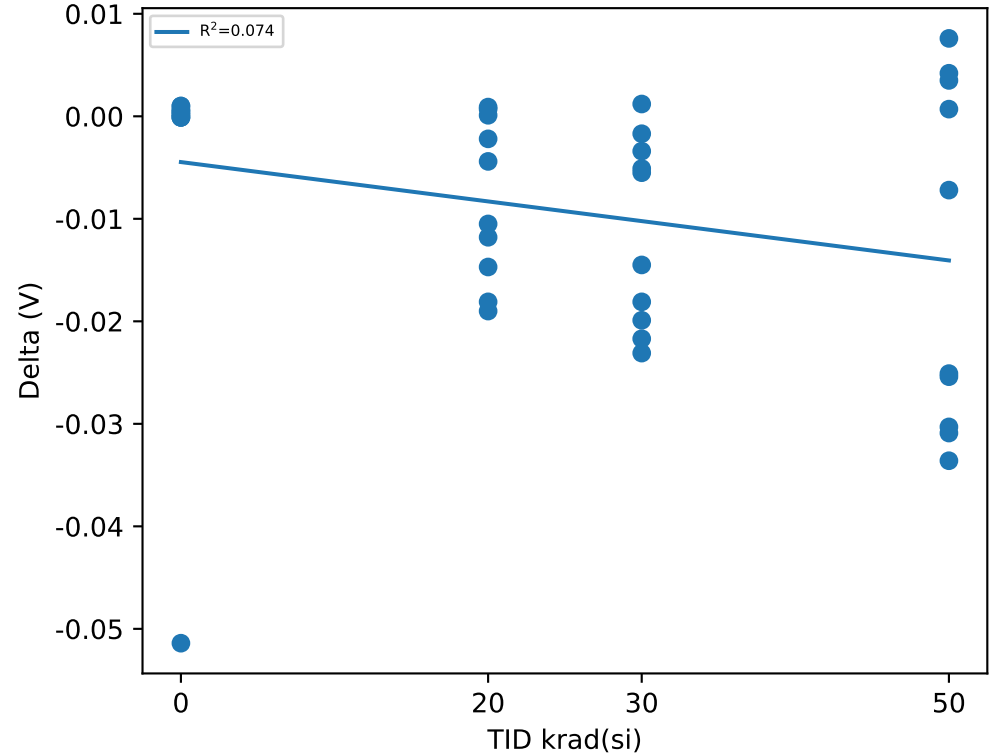
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6222	2.6957	2.7821	0.066436	2.6188	2.6904	2.7791	0.069083	-0.0137	-0.00528	-0.0025	0.0047315
20	2.609	2.7017	2.7498	0.045832	2.6071	2.6999	2.7438	0.044032	-0.0114	-0.00188	0.0054	0.0054133
30	2.6777	2.716	2.7867	0.035152	2.688	2.7161	2.7812	0.034107	-0.0084	6e-05	0.0128	0.0074922
50	2.5608	2.6814	2.7323	0.049185	2.5646	2.6779	2.718	0.046093	-0.0701	-0.00345	0.06	0.031083

Device Test: 14.1 THRESHOLD|RISE/PVIN/4.5////@UVLO_RISE_PVIN

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 3.2, Upper Limit = 3.6 (V))

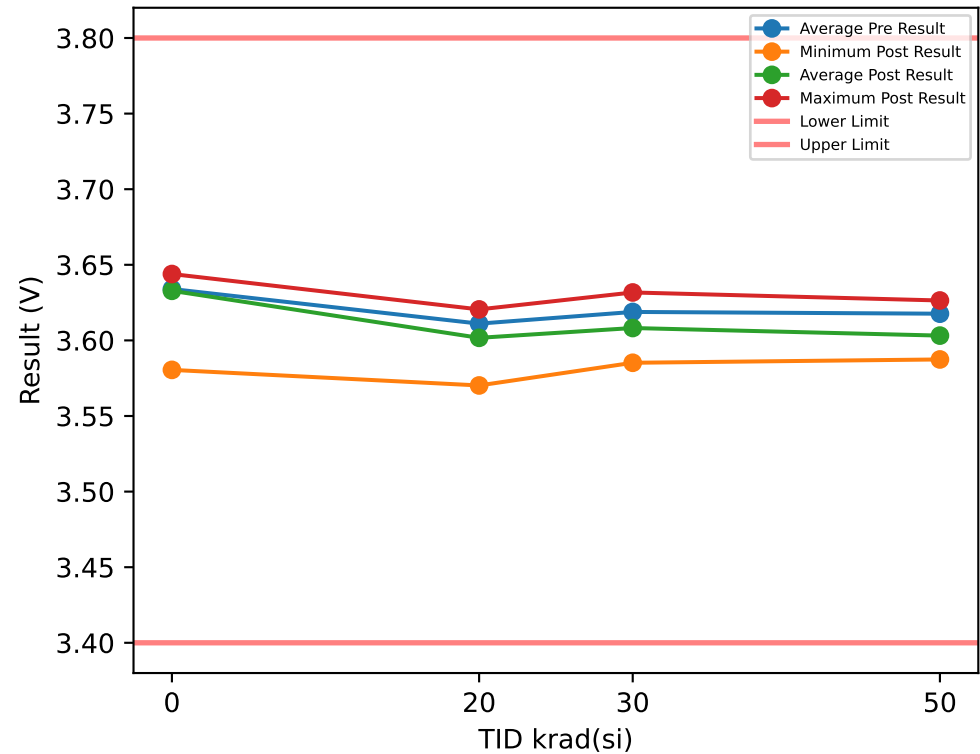
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.4539	3.4025	-0.0514
516	0	CORRELATION	3.4487	3.4491	0.0004
721	0	CORRELATION	3.4432	3.4431	-0.0001
723	0	CORRELATION	3.4383	3.4393	0.001
729	0	CORRELATION	3.4565	3.4571	0.0006
990	20	Unbiased	3.4535	3.4354	-0.0181
991	20	Unbiased	3.4315	3.4197	-0.0118
992	20	Unbiased	3.4301	3.4111	-0.019
993	20	Unbiased	3.441	3.4305	-0.0105
994	20	Unbiased	3.4328	3.4181	-0.0147
995	20	Biased	3.4399	3.4406	0.0007
996	20	Biased	3.4424	3.4402	-0.0022
997	20	Biased	3.4361	3.4317	-0.0044
998	20	Biased	3.424	3.4241	0.0001
999	20	Biased	3.4461	3.447	0.0009
1020	30	Unbiased	3.4639	3.4605	-0.0034
1021	30	Unbiased	3.4423	3.4372	-0.0051
1022	30	Unbiased	3.4389	3.4334	-0.0055
1023	30	Unbiased	3.4273	3.4256	-0.0017
1024	30	Unbiased	3.4295	3.4307	0.0012
1025	30	Biased	3.4662	3.4431	-0.0231
1026	30	Biased	3.44	3.4219	-0.0181
1027	30	Biased	3.4483	3.4266	-0.0217
1028	30	Biased	3.4302	3.4103	-0.0199
1029	30	Biased	3.4444	3.4299	-0.0145
1030	50	Unbiased	3.4503	3.4538	0.0035
1031	50	Unbiased	3.4512	3.4588	0.0076
1032	50	Unbiased	3.4276	3.4318	0.0042
1033	50	Unbiased	3.4256	3.4184	-0.0072
1034	50	Unbiased	3.4357	3.4364	0.0007
1035	50	Biased-84Hr-Anneal	3.4543	3.4289	-0.0254
1036	50	Biased-84Hr-Anneal	3.4532	3.4281	-0.0251
1037	50	Biased-84Hr-Anneal	3.4413	3.4104	-0.0309
1038	50	Biased-84Hr-Anneal	3.4578	3.4275	-0.0303
1039	50	Biased-84Hr-Anneal	3.4606	3.427	-0.0336

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	3.4383	3.4481	3.4565	0.0074935	3.4025	3.4382	3.4571	0.02107	-0.0514	-0.0099	0.001	0.023203
20	3.424	3.4377	3.4535	0.0086182	3.4111	3.4298	3.447	0.011437	-0.019	-0.0079	0.0009	0.0078571
30	3.4273	3.4431	3.4662	0.013432	3.4103	3.4319	3.4605	0.01339	-0.0231	-0.01118	0.0012	0.009193
50	3.4256	3.4458	3.4606	0.012477	3.4104	3.4321	3.4588	0.01466	-0.0336	-0.01365	0.0076	0.016845

Device Test: 14.10 THRESHOLD|RISE/VIN/5////@UVLO_RISE_VIN

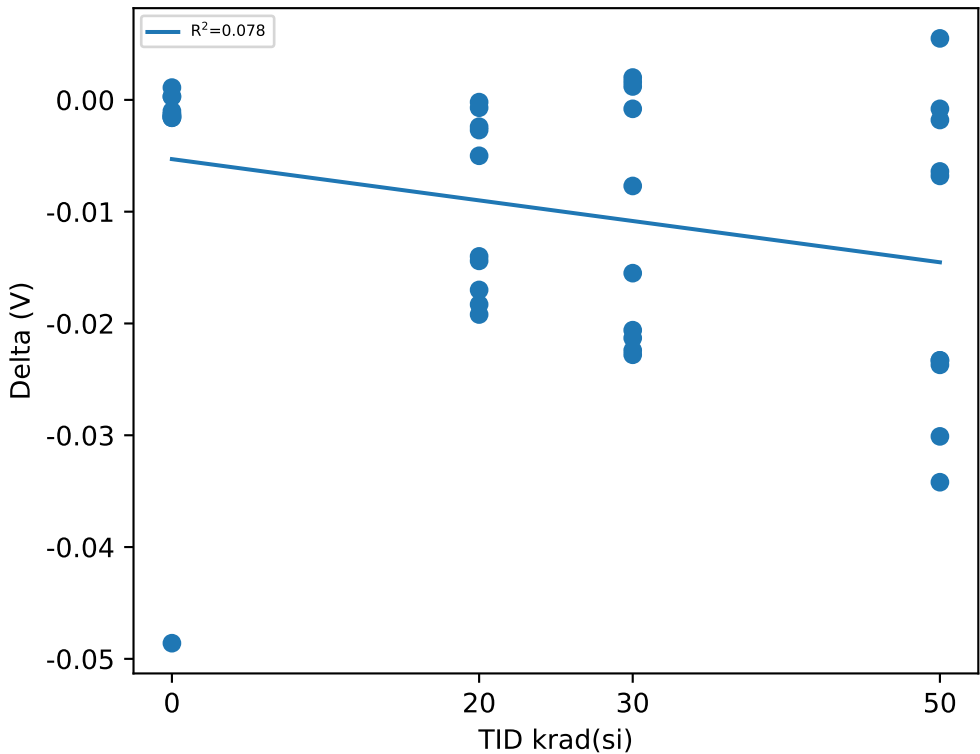
TID vs Result Stats



Test Results (Lower Limit = 3.4, Upper Limit = 3.8 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.6291	3.5805	-0.0486
516	0	CORRELATION	3.6327	3.6338	0.0011
721	0	CORRELATION	3.6256	3.6246	-0.001
723	0	CORRELATION	3.6436	3.642	-0.0016
729	0	CORRELATION	3.6389	3.6376	-0.0013
990	20	Unbiased	3.6139	3.5999	-0.014
991	20	Unbiased	3.6284	3.6114	-0.017
992	20	Unbiased	3.5968	3.5785	-0.0183
993	20	Unbiased	3.6172	3.598	-0.0192
994	20	Unbiased	3.5846	3.5702	-0.0144
995	20	Biased	3.6165	3.6141	-0.0024
996	20	Biased	3.6255	3.6205	-0.005
997	20	Biased	3.6057	3.6055	-0.0002
998	20	Biased	3.618	3.6153	-0.0027
999	20	Biased	3.6043	3.6036	-0.0007
1020	30	Unbiased	3.6117	3.6109	-0.0008
1021	30	Unbiased	3.6394	3.6317	-0.0077
1022	30	Unbiased	3.6199	3.6211	0.0012
1023	30	Unbiased	3.5982	3.6002	0.002
1024	30	Unbiased	3.6292	3.6308	0.0016
1025	30	Biased	3.6249	3.6043	-0.0206
1026	30	Biased	3.6356	3.6128	-0.0228
1027	30	Biased	3.6148	3.5924	-0.0224
1028	30	Biased	3.6065	3.5852	-0.0213
1029	30	Biased	3.608	3.5925	-0.0155
1030	50	Unbiased	3.6209	3.6264	0.0055
1031	50	Unbiased	3.6074	3.601	-0.0064
1032	50	Unbiased	3.6022	3.6014	-0.0008
1033	50	Unbiased	3.6142	3.6124	-0.0018
1034	50	Unbiased	3.614	3.6072	-0.0068
1035	50	Biased-84Hr-Anneal	3.6288	3.6055	-0.0233
1036	50	Biased-84Hr-Anneal	3.623	3.5993	-0.0237
1037	50	Biased-84Hr-Anneal	3.6216	3.5874	-0.0342
1038	50	Biased-84Hr-Anneal	3.624	3.5939	-0.0301
1039	50	Biased-84Hr-Anneal	3.6205	3.5972	-0.0233

TID vs Post - Pre Exposure Delta

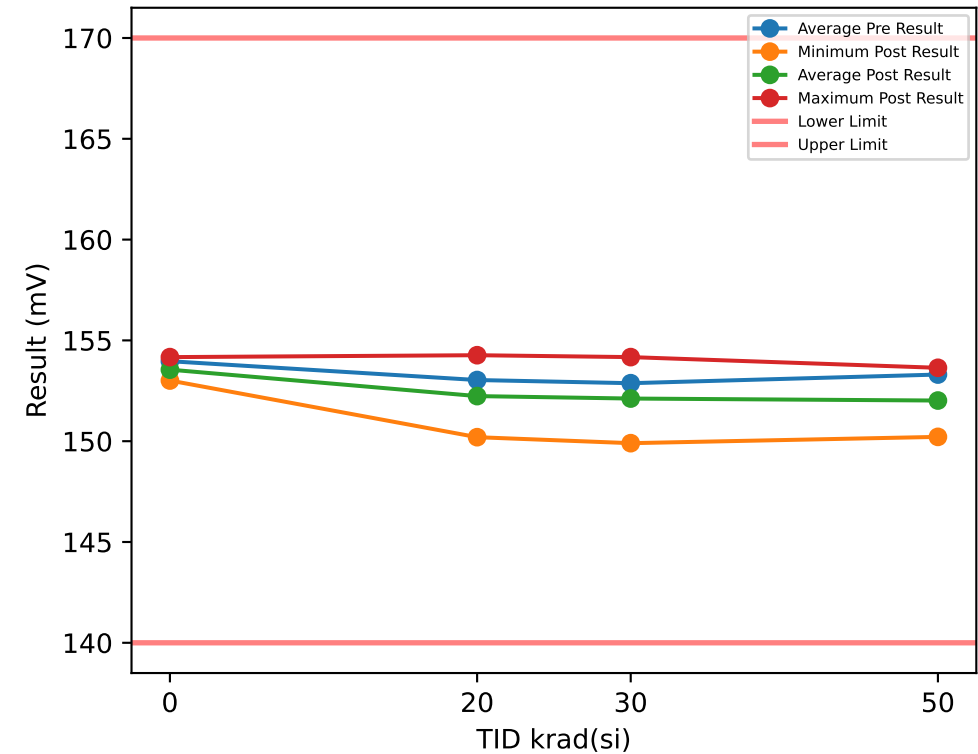


Test Statistics (V)

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	3.6256	3.634	3.6436	0.0072875	3.5805	3.6237	3.642	0.024986	-0.0486	-0.01028	0.0011	0.021448
20	3.5846	3.6111	3.6284	0.013377	3.5702	3.6017	3.6205	0.016165	-0.0192	-0.00939	-0.0002	0.0078369
30	3.5982	3.6188	3.6394	0.013383	3.5852	3.6082	3.6317	0.016201	-0.0228	-0.01063	0.002	0.010944
50	3.6022	3.6177	3.6288	0.0081414	3.5874	3.6032	3.6264	0.010748	-0.0342	-0.01449	0.0055	0.013924

Device Test: 14.12 THRESHOLD|HYST/VIN/5////@UVLO_HYST_VIN

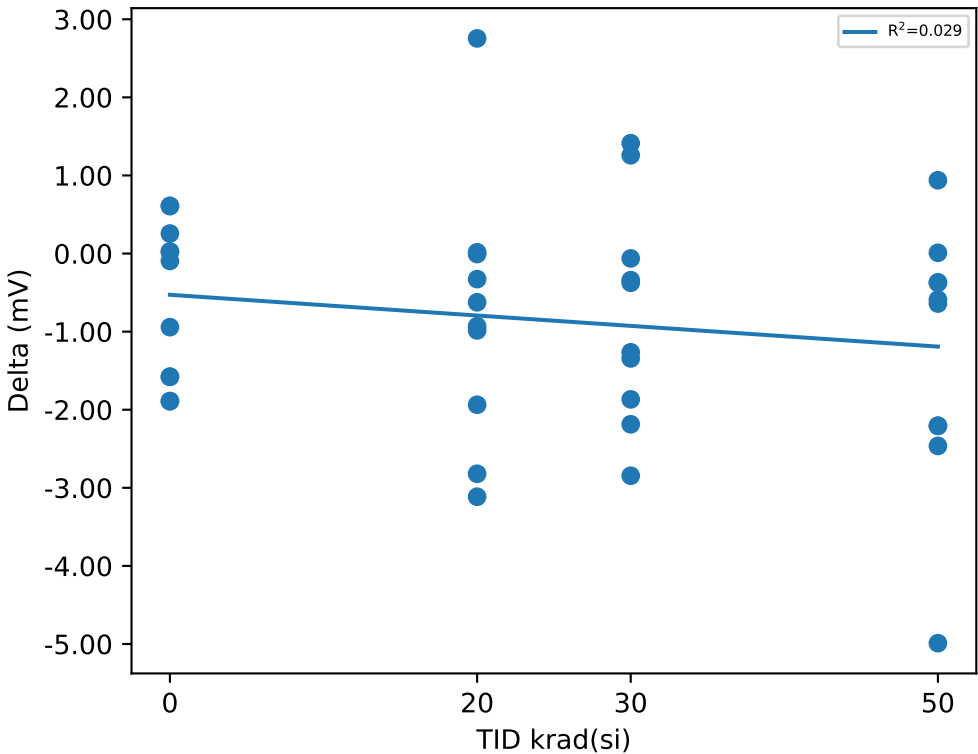
TID vs Result Stats



Test Results (Lower Limit = 140.0, Upper Limit = 170.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	153.95	153.01	-0.9427
516	0	CORRELATION	153.07	153.33	0.2563
721	0	CORRELATION	154.27	154.17	-0.0946
723	0	CORRELATION	153.34	153.36	0.0244
729	0	CORRELATION	155.21	153.63	-1.5778
990	20	Unbiased	153.96	153.34	-0.6242
991	20	Unbiased	153.38	151.45	-1.9364
992	20	Unbiased	153.01	152.08	-0.9304
993	20	Unbiased	154.58	151.46	-3.1138
994	20	Unbiased	150.53	150.2	-0.3276
995	20	Biased	151.51	154.27	2.755
996	20	Biased	153.95	153.96	0.016
997	20	Biased	152.08	152.07	-0.0062
998	20	Biased	154.27	151.45	-2.8201
999	20	Biased	153.07	152.09	-0.9837
1020	30	Unbiased	151.45	151.11	-0.341
1021	30	Unbiased	155.51	154.17	-1.3428
1022	30	Unbiased	152.13	152.07	-0.0627
1023	30	Unbiased	151.77	153.03	1.2582
1024	30	Unbiased	154.27	153.01	-1.2648
1025	30	Biased	151.2	152.61	1.4128
1026	30	Biased	153.95	151.11	-2.8453
1027	30	Biased	152.09	149.9	-2.1863
1028	30	Biased	151.82	151.45	-0.3746
1029	30	Biased	154.57	152.7	-1.8673
1030	50	Unbiased	153.07	152.7	-0.3748
1031	50	Unbiased	156.13	151.14	-4.9896
1032	50	Unbiased	152.7	152.71	0.0096
1033	50	Unbiased	153.03	152.38	-0.6404
1034	50	Unbiased	154.01	153.64	-0.3688
1035	50	Biased-84Hr-Anneal	152.37	151.78	-0.5896
1036	50	Biased-84Hr-Anneal	152.72	150.51	-2.2056
1037	50	Biased-84Hr-Anneal	152.68	150.21	-2.4634
1038	50	Biased-84Hr-Anneal	153.65	151.45	-2.2059
1039	50	Biased-84Hr-Anneal	152.7	153.64	0.9386

TID vs Post - Pre Exposure Delta

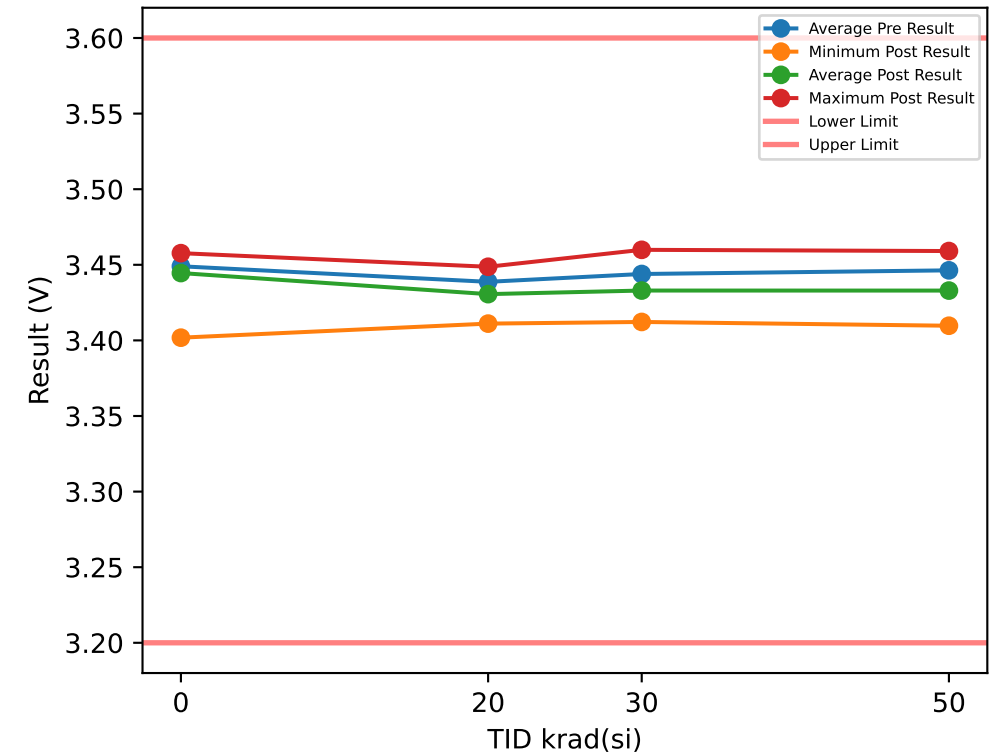


Test Statistics (mV)

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	153.07	153.97	155.21	0.84197	153.01	153.5	154.17	0.43494	-1.5778	-0.46688	0.2563	0.76868
20	150.53	153.03	154.58	1.3021	150.2	152.24	154.27	1.2632	-3.1138	-0.79714	2.755	1.6655
30	151.2	152.88	155.51	1.5388	149.9	152.12	154.17	1.2393	-2.8453	-0.76138	1.4128	1.4066
50	152.37	153.31	156.13	1.1101	150.21	152.02	153.64	1.2027	-4.9896	-1.289	0.9386	1.6995

Device Test: 14.13 THRESHOLD|RISE/PVIN/12/////@UVLO_RISE_PVIN

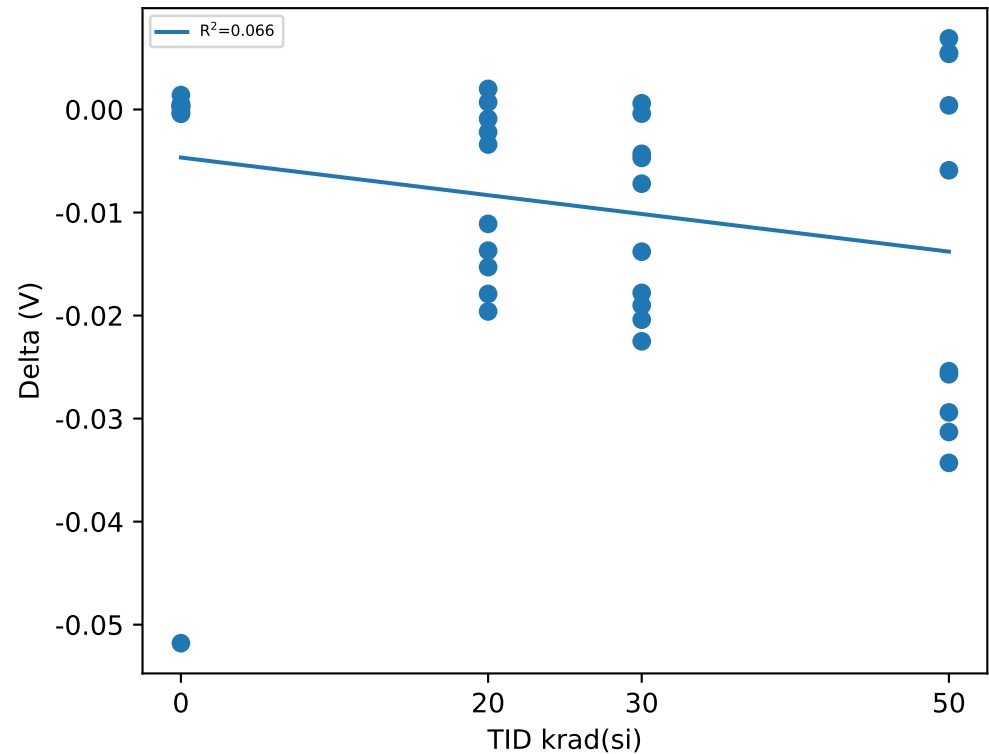
TID vs Result Stats



Test Results (Lower Limit = 3.2, Upper Limit = 3.6 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.4536	3.4018	-0.0518
516	0	CORRELATION	3.4493	3.4507	0.0014
721	0	CORRELATION	3.4442	3.4441	-0.0001
723	0	CORRELATION	3.4406	3.4402	-0.0004
729	0	CORRELATION	3.4574	3.4577	0.0003
990	20	Unbiased	3.4542	3.4363	-0.0179
991	20	Unbiased	3.4331	3.4194	-0.0137
992	20	Unbiased	3.4307	3.4111	-0.0196
993	20	Unbiased	3.4426	3.4315	-0.0111
994	20	Unbiased	3.4334	3.4181	-0.0153
995	20	Biased	3.4419	3.4439	0.002
996	20	Biased	3.4434	3.4412	-0.0022
997	20	Biased	3.4358	3.4324	-0.0034
998	20	Biased	3.4243	3.4234	-0.0009
999	20	Biased	3.448	3.4487	0.0007
1020	30	Unbiased	3.4642	3.4599	-0.0043
1021	30	Unbiased	3.4423	3.4376	-0.0047
1022	30	Unbiased	3.4419	3.4347	-0.0072
1023	30	Unbiased	3.427	3.4276	0.0006
1024	30	Unbiased	3.4324	3.432	-0.0004
1025	30	Biased	3.4675	3.445	-0.0225
1026	30	Biased	3.4397	3.4219	-0.0178
1027	30	Biased	3.448	3.4276	-0.0204
1028	30	Biased	3.4312	3.4122	-0.019
1029	30	Biased	3.445	3.4312	-0.0138
1030	50	Unbiased	3.45	3.4554	0.0054
1031	50	Unbiased	3.4522	3.4591	0.0069
1032	50	Unbiased	3.4286	3.4341	0.0055
1033	50	Unbiased	3.425	3.4191	-0.0059
1034	50	Unbiased	3.437	3.4374	0.0004
1035	50	Biased-84Hr-Anneal	3.4549	3.4292	-0.0257
1036	50	Biased-84Hr-Anneal	3.4542	3.4288	-0.0254
1037	50	Biased-84Hr-Anneal	3.441	3.4097	-0.0313
1038	50	Biased-84Hr-Anneal	3.4588	3.4294	-0.0294
1039	50	Biased-84Hr-Anneal	3.4616	3.4273	-0.0343

TID vs Post - Pre Exposure Delta

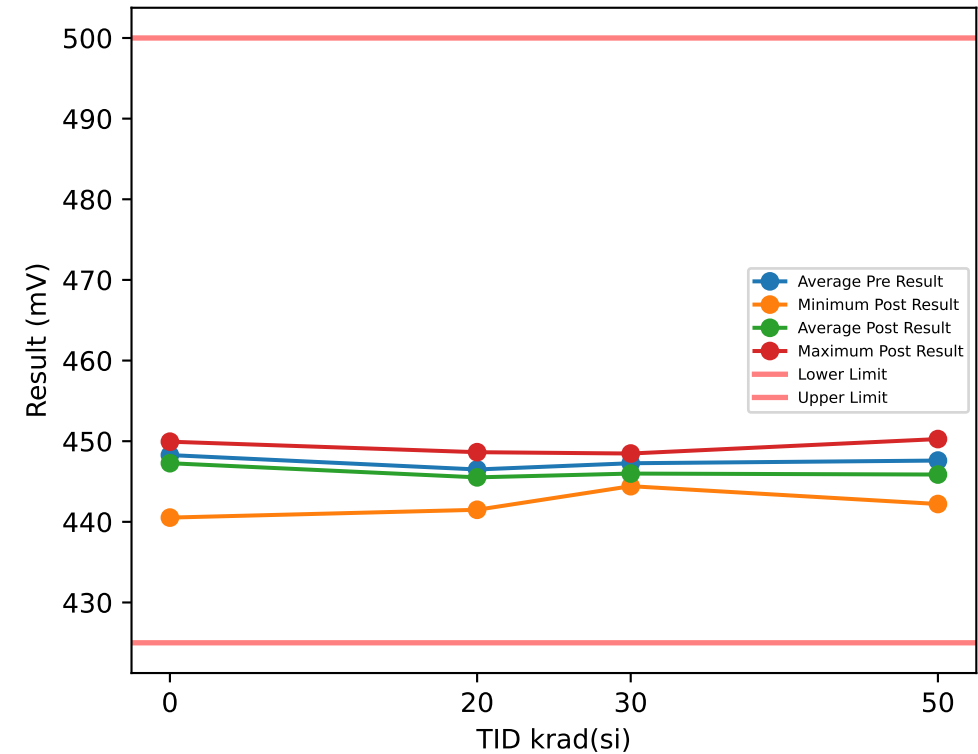


Test Statistics (V)

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	3.4406	3.449	3.4574	0.0068082	3.4018	3.4389	3.4577	0.021782	-0.0518	-0.01012	0.0014	0.02331
20	3.4243	3.4387	3.4542	0.0089037	3.4111	3.4306	3.4487	0.012325	-0.0196	-0.00814	0.002	0.0082237
30	3.427	3.4439	3.4675	0.013293	3.4122	3.433	3.4599	0.012953	-0.0225	-0.01095	0.0006	0.0087217
50	3.425	3.4463	3.4616	0.012723	3.4097	3.4329	3.4591	0.014971	-0.0343	-0.01338	0.0069	0.01725

Device Test: 14.15 THRESHOLD|HYST/PVIN/12/////@UVLO_HYST_PVIN

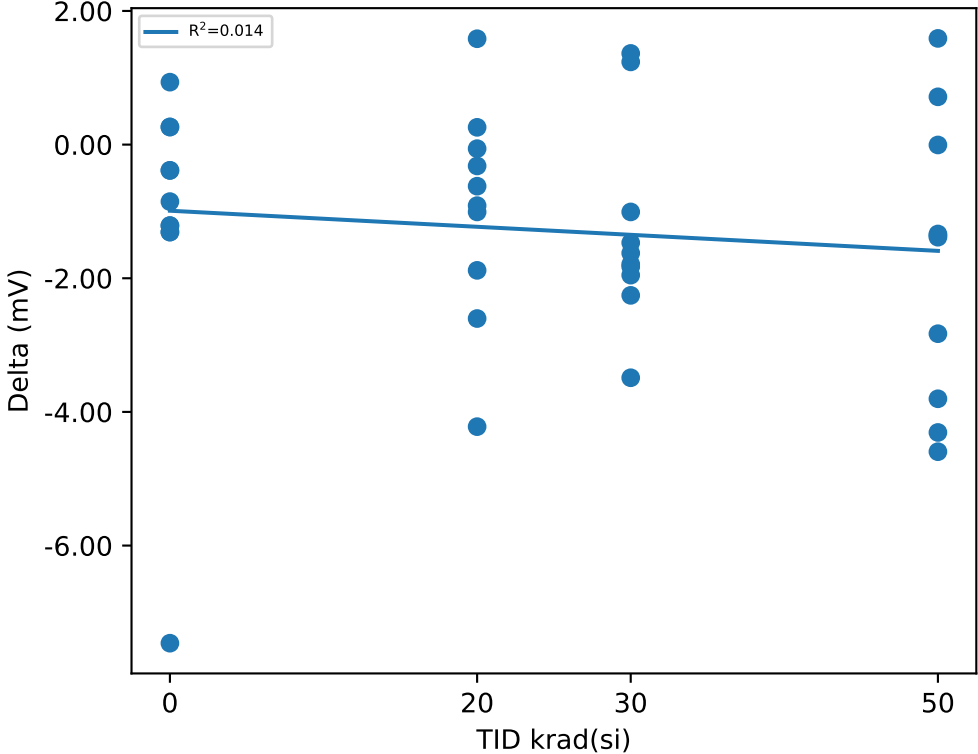
TID vs Result Stats



Test Results (Lower Limit = 425.0, Upper Limit = 500.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	447.99	440.53	-7.4609
516	0	CORRELATION	449	449.93	0.9345
721	0	CORRELATION	447.34	446.49	-0.8527
723	0	CORRELATION	447.4	446.19	-1.2123
729	0	CORRELATION	449.68	448.37	-1.3085
990	20	Unbiased	450.65	446.43	-4.2205
991	20	Unbiased	445.1	444.1	-1.0074
992	20	Unbiased	444.1	441.49	-2.6025
993	20	Unbiased	446.69	444.81	-1.8817
994	20	Unbiased	444.16	444.1	-0.0606
995	20	Biased	447.05	448.64	1.5842
996	20	Biased	447.99	447.08	-0.9132
997	20	Biased	444.74	444.42	-0.3193
998	20	Biased	445.46	445.71	0.2586
999	20	Biased	449	448.38	-0.6222
1020	30	Unbiased	449.94	448.47	-1.4687
1021	30	Unbiased	447.66	445.84	-1.8269
1022	30	Unbiased	448.03	445.77	-2.2558
1023	30	Unbiased	443.44	444.81	1.3644
1024	30	Unbiased	445.78	447.02	1.2376
1025	30	Biased	450.95	447.46	-3.4888
1026	30	Biased	446.36	444.57	-1.7893
1027	30	Biased	447.73	446.11	-1.6234
1028	30	Biased	445.43	444.42	-1.0074
1029	30	Biased	447.34	445.39	-1.9535
1030	50	Unbiased	448.68	450.26	1.5893
1031	50	Unbiased	449.62	449.61	-0.0054
1032	50	Unbiased	445.39	446.11	0.7151
1033	50	Unbiased	444.81	443.45	-1.3592
1034	50	Unbiased	446.08	444.74	-1.3375
1035	50	Biased-84Hr-Anneal	446.52	445.13	-1.3856
1036	50	Biased-84Hr-Anneal	448.87	446.04	-2.8296
1037	50	Biased-84Hr-Anneal	446.52	442.21	-4.3074
1038	50	Biased-84Hr-Anneal	449.52	445.72	-3.8033
1039	50	Biased-84Hr-Anneal	449.99	445.39	-4.5952

TID vs Post - Pre Exposure Delta

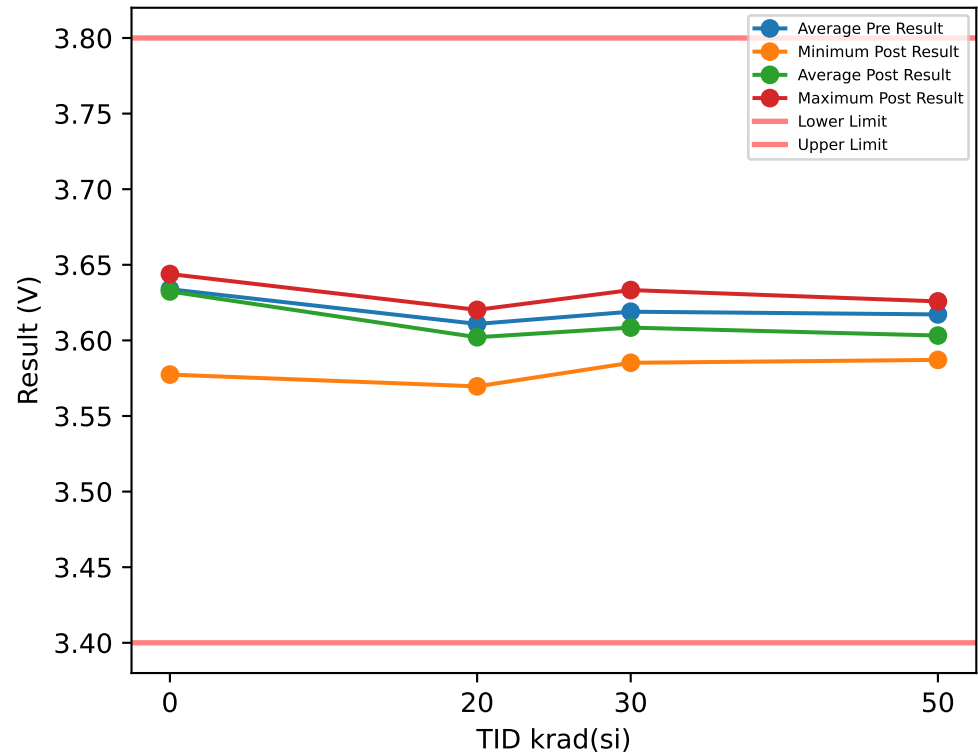


Test Statistics (mV)

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	447.34	448.28	449.68	1.026	440.53	446.3	449.93	3.5663	-7.4609	-1.98	0.9345	3.1955
20	444.1	446.49	450.65	2.1971	441.49	445.52	448.64	2.1896	-4.2205	-0.97846	1.5842	1.6149
30	443.44	447.27	450.95	2.1777	444.42	445.99	448.47	1.3201	-3.4888	-1.2812	1.3644	1.5056
50	444.81	447.6	449.99	1.9316	442.21	445.87	450.26	2.4661	-4.5952	-1.7319	1.5893	2.1276

Device Test: 14.16 THRESHOLD|RISE/VIN/12/////@UVLO_RISE_VIN

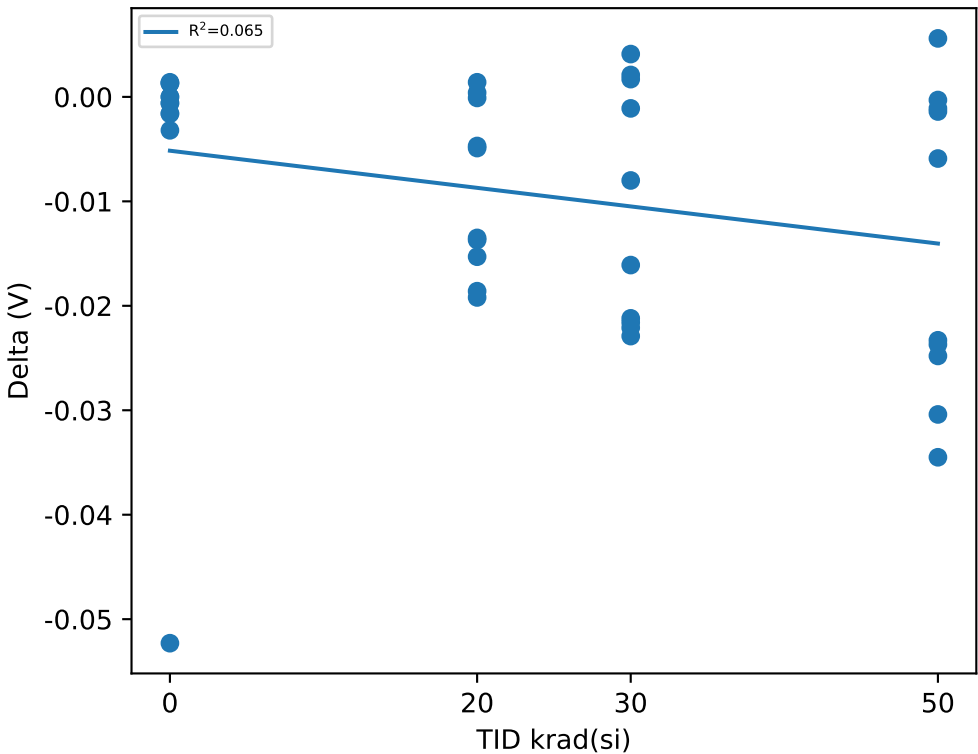
TID vs Result Stats



Test Results (Lower Limit = 3.4, Upper Limit = 3.8 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.6297	3.5774	-0.0523
516	0	CORRELATION	3.633	3.6344	0.0014
721	0	CORRELATION	3.6256	3.6224	-0.0032
723	0	CORRELATION	3.6426	3.642	-0.0006
729	0	CORRELATION	3.6383	3.6367	-0.0016
990	20	Unbiased	3.6136	3.5999	-0.0137
991	20	Unbiased	3.6274	3.6139	-0.0135
992	20	Unbiased	3.5968	3.5782	-0.0186
993	20	Unbiased	3.6169	3.5977	-0.0192
994	20	Unbiased	3.5849	3.5696	-0.0153
995	20	Biased	3.619	3.6141	-0.0049
996	20	Biased	3.6249	3.6202	-0.0047
997	20	Biased	3.6057	3.6061	0.0004
998	20	Biased	3.6158	3.6172	0.0014
999	20	Biased	3.604	3.6039	-0.0001
1020	30	Unbiased	3.6117	3.6106	-0.0011
1021	30	Unbiased	3.6391	3.6311	-0.008
1022	30	Unbiased	3.6205	3.6226	0.0021
1023	30	Unbiased	3.5982	3.5999	0.0017
1024	30	Unbiased	3.6292	3.6333	0.0041
1025	30	Biased	3.6252	3.604	-0.0212
1026	30	Biased	3.6363	3.6134	-0.0229
1027	30	Biased	3.6148	3.5927	-0.0221
1028	30	Biased	3.6068	3.5852	-0.0216
1029	30	Biased	3.608	3.5919	-0.0161
1030	50	Unbiased	3.6202	3.6258	0.0056
1031	50	Unbiased	3.6046	3.6032	-0.0014
1032	50	Unbiased	3.6022	3.6011	-0.0011
1033	50	Unbiased	3.613	3.6127	-0.0003
1034	50	Unbiased	3.6137	3.6078	-0.0059
1035	50	Biased-84Hr-Anneal	3.6285	3.6052	-0.0233
1036	50	Biased-84Hr-Anneal	3.623	3.5993	-0.0237
1037	50	Biased-84Hr-Anneal	3.6216	3.5871	-0.0345
1038	50	Biased-84Hr-Anneal	3.624	3.5936	-0.0304
1039	50	Biased-84Hr-Anneal	3.6211	3.5963	-0.0248

TID vs Post - Pre Exposure Delta

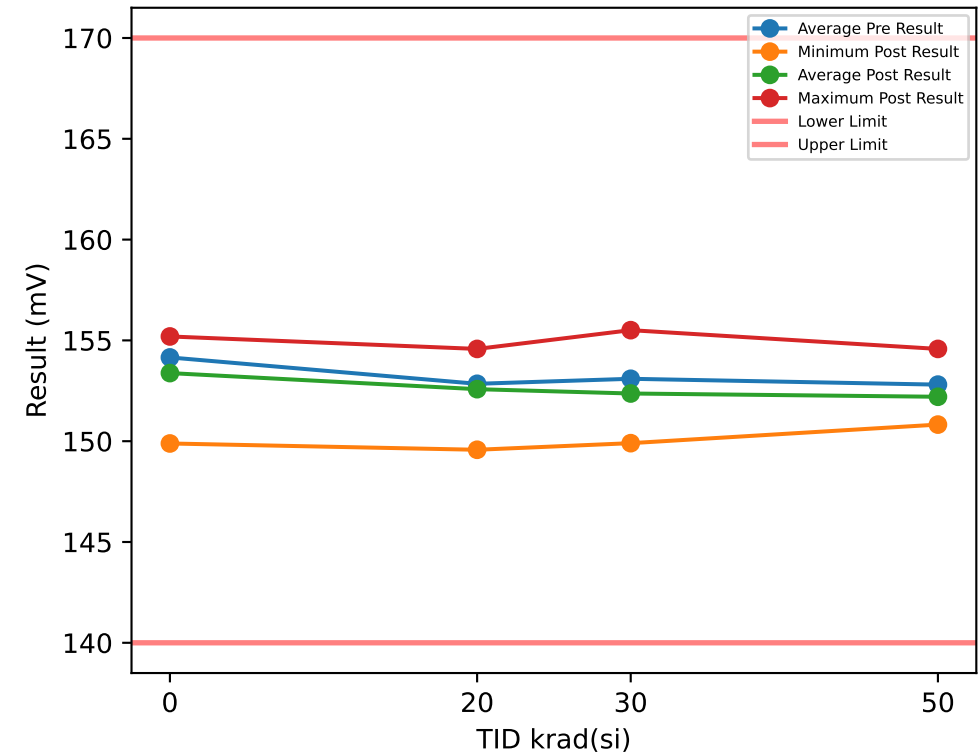


Test Statistics (V)

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	3.6256	3.6338	3.6426	0.0067523	3.5774	3.6226	3.642	0.026256	-0.0523	-0.01126	0.0014	0.023003
20	3.5849	3.6109	3.6274	0.013126	3.5696	3.6021	3.6202	0.016699	-0.0192	-0.00882	0.0014	0.0080893
30	3.5982	3.619	3.6391	0.013422	3.5852	3.6085	3.6333	0.016718	-0.0229	-0.01051	0.0041	0.011415
50	3.6022	3.6172	3.6285	0.0085945	3.5871	3.6032	3.6258	0.010774	-0.0345	-0.01398	0.0056	0.014716

Device Test: 14.18 THRESHOLD|HYST/VIN/12////@UVLO_HYST_VIN

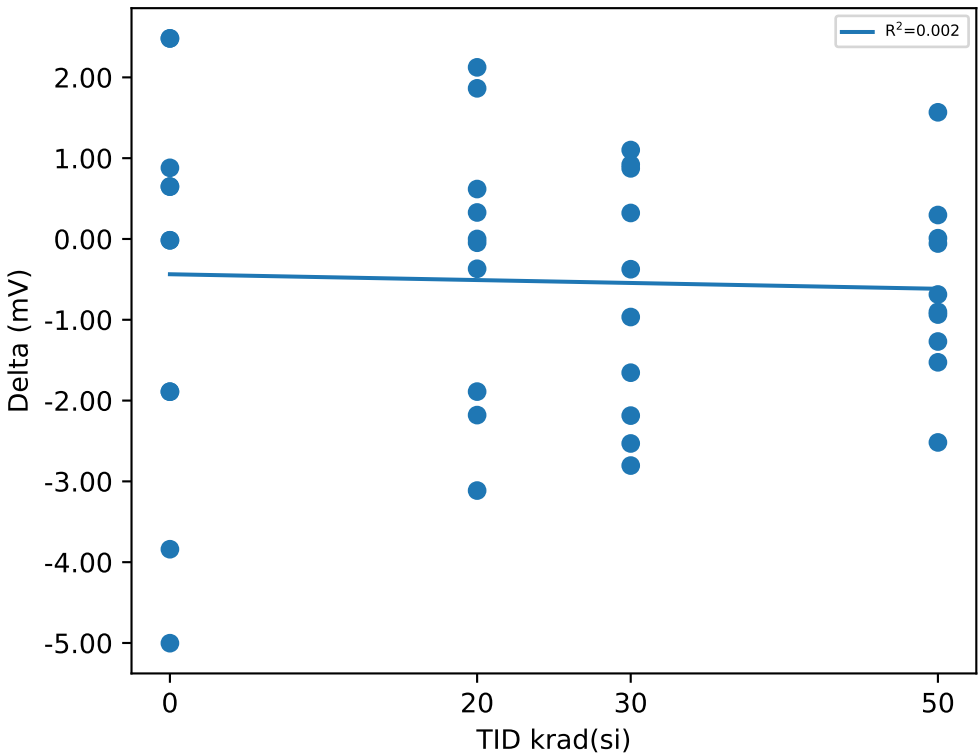
TID vs Result Stats



Test Results (Lower Limit = 140.0, Upper Limit = 170.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	154.89	149.89	-5.0027
516	0	CORRELATION	153.07	153.95	0.8805
721	0	CORRELATION	155.51	151.67	-3.8397
723	0	CORRELATION	152.71	153.36	0.6485
729	0	CORRELATION	154.59	152.7	-1.89
990	20	Unbiased	153.65	153.65	0.0002
991	20	Unbiased	151.51	153.63	2.1241
992	20	Unbiased	153.01	150.83	-2.1797
993	20	Unbiased	154.27	151.15	-3.1137
994	20	Unbiased	151.46	149.57	-1.8889
995	20	Biased	154.95	154.58	-0.3688
996	20	Biased	153.32	153.65	0.3281
997	20	Biased	151.77	152.38	0.618
998	20	Biased	151.78	153.64	1.8644
999	20	Biased	152.76	152.71	-0.0465
1020	30	Unbiased	151.76	150.79	-0.9659
1021	30	Unbiased	155.2	153.55	-1.6549
1022	30	Unbiased	152.76	153.63	0.874
1023	30	Unbiased	152.08	152.4	0.3219
1024	30	Unbiased	154.59	155.51	0.921
1025	30	Biased	151.2	152.3	1.1008
1026	30	Biased	154.89	152.36	-2.5308
1027	30	Biased	152.09	149.9	-2.1861
1028	30	Biased	151.82	151.45	-0.3743
1029	30	Biased	154.57	151.77	-2.8043
1030	50	Unbiased	152.76	152.07	-0.6869
1031	50	Unbiased	153.01	154.58	1.5678
1032	50	Unbiased	152.39	152.4	0.0096
1033	50	Unbiased	151.78	152.07	0.2966
1034	50	Unbiased	154.01	153.95	-0.0563
1035	50	Biased-84Hr-Anneal	152.05	151.15	-0.902
1036	50	Biased-84Hr-Anneal	152.72	151.45	-1.2689
1037	50	Biased-84Hr-Anneal	152.68	151.15	-1.5264
1038	50	Biased-84Hr-Anneal	153.34	150.82	-2.5179
1039	50	Biased-84Hr-Anneal	153.33	152.39	-0.9355

TID vs Post - Pre Exposure Delta

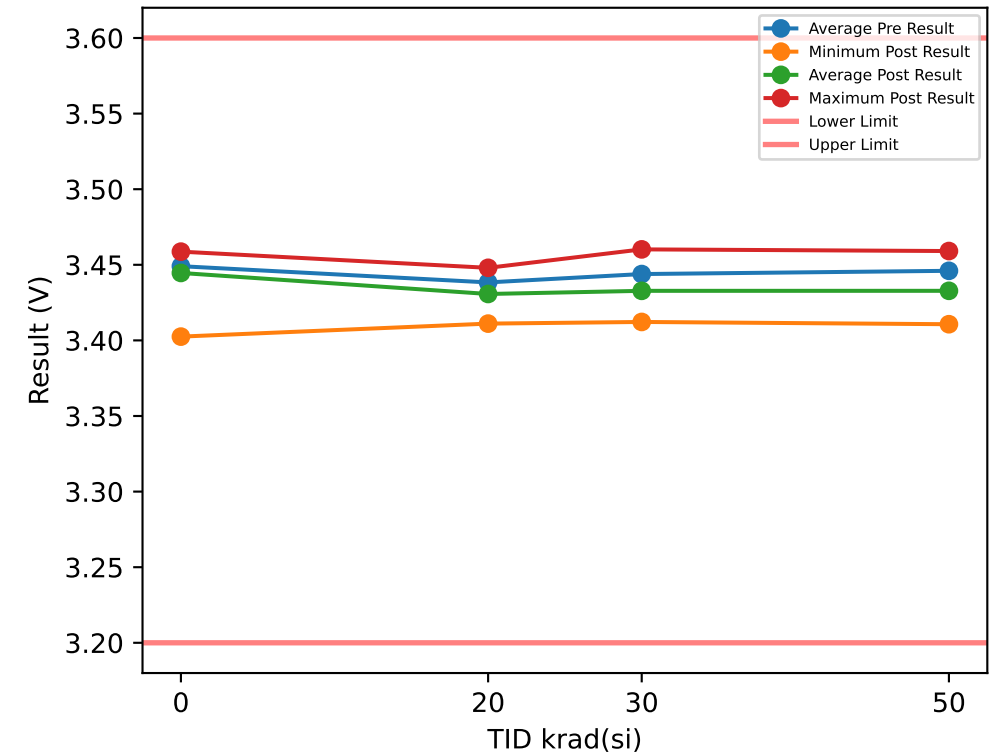


Test Statistics (mV)

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	152.71	154.16	155.51	1.2068	149.89	152.31	153.95	1.599	-5.0027	-1.8407	0.8805	2.6267
20	151.46	152.85	154.95	1.2174	149.57	152.58	154.58	1.5883	-3.1137	-0.26628	2.1241	1.6971
30	151.2	153.1	155.2	1.5355	149.9	152.37	155.51	1.5853	-2.8043	-0.72986	1.1008	1.5078
50	151.78	152.81	154.01	0.65594	150.82	152.2	154.58	1.2244	-2.5179	-0.60199	1.5678	1.1238

Device Test: 14.19 THRESHOLD|RISE/PVIN/14/////@UVLO_RISE_PVIN

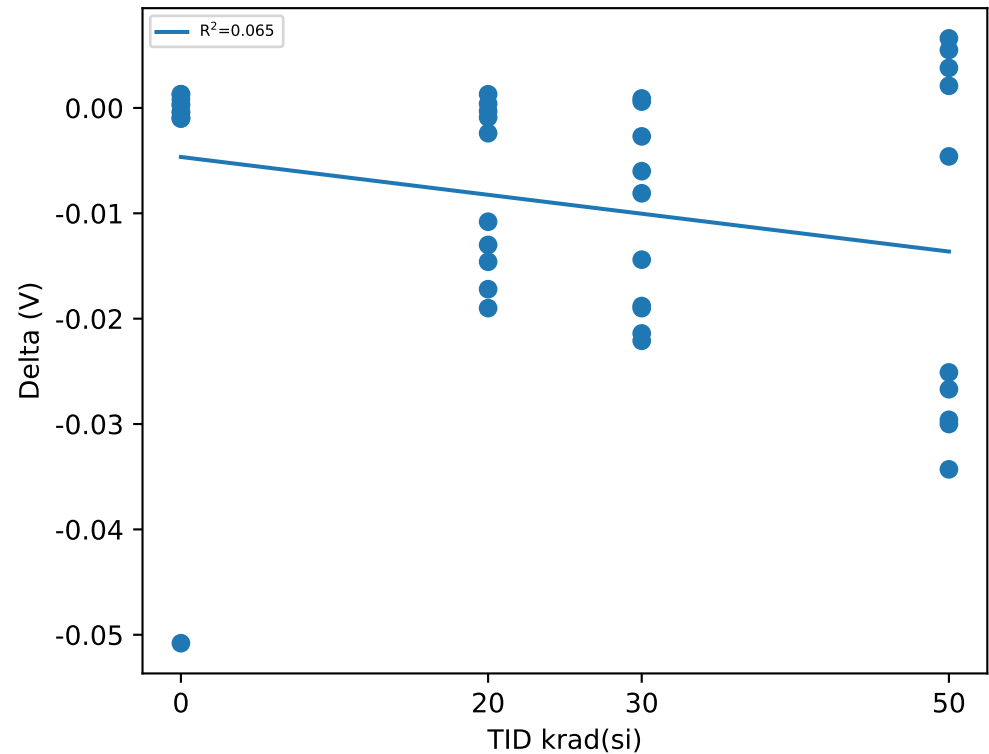
TID vs Result Stats



Test Results (Lower Limit = 3.2, Upper Limit = 3.6 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.4533	3.4025	-0.0508
516	0	CORRELATION	3.4506	3.4497	-0.0009
721	0	CORRELATION	3.4429	3.4437	0.0008
723	0	CORRELATION	3.4412	3.4415	0.0003
729	0	CORRELATION	3.4574	3.4587	0.0013
990	20	Unbiased	3.4535	3.4363	-0.0172
991	20	Unbiased	3.4321	3.4191	-0.013
992	20	Unbiased	3.4301	3.4111	-0.019
993	20	Unbiased	3.4423	3.4315	-0.0108
994	20	Unbiased	3.4337	3.4191	-0.0146
995	20	Biased	3.4422	3.4426	0.0004
996	20	Biased	3.4428	3.4425	-0.0003
997	20	Biased	3.4351	3.4327	-0.0024
998	20	Biased	3.425	3.4241	-0.0009
999	20	Biased	3.4467	3.448	0.0013
1020	30	Unbiased	3.4629	3.4602	-0.0027
1021	30	Unbiased	3.4436	3.4376	-0.006
1022	30	Unbiased	3.4415	3.4334	-0.0081
1023	30	Unbiased	3.4267	3.4276	0.0009
1024	30	Unbiased	3.4318	3.4324	0.0006
1025	30	Biased	3.4665	3.4444	-0.0221
1026	30	Biased	3.4413	3.4225	-0.0188
1027	30	Biased	3.4483	3.4269	-0.0214
1028	30	Biased	3.4312	3.4122	-0.019
1029	30	Biased	3.445	3.4306	-0.0144
1030	50	Unbiased	3.4493	3.4531	0.0038
1031	50	Unbiased	3.4525	3.4591	0.0066
1032	50	Unbiased	3.4286	3.4341	0.0055
1033	50	Unbiased	3.4246	3.42	-0.0046
1034	50	Unbiased	3.4363	3.4384	0.0021
1035	50	Biased-84Hr-Anneal	3.4549	3.4298	-0.0251
1036	50	Biased-84Hr-Anneal	3.4539	3.4272	-0.0267
1037	50	Biased-84Hr-Anneal	3.4403	3.4107	-0.0296
1038	50	Biased-84Hr-Anneal	3.4588	3.4288	-0.03
1039	50	Biased-84Hr-Anneal	3.461	3.4267	-0.0343

TID vs Post - Pre Exposure Delta

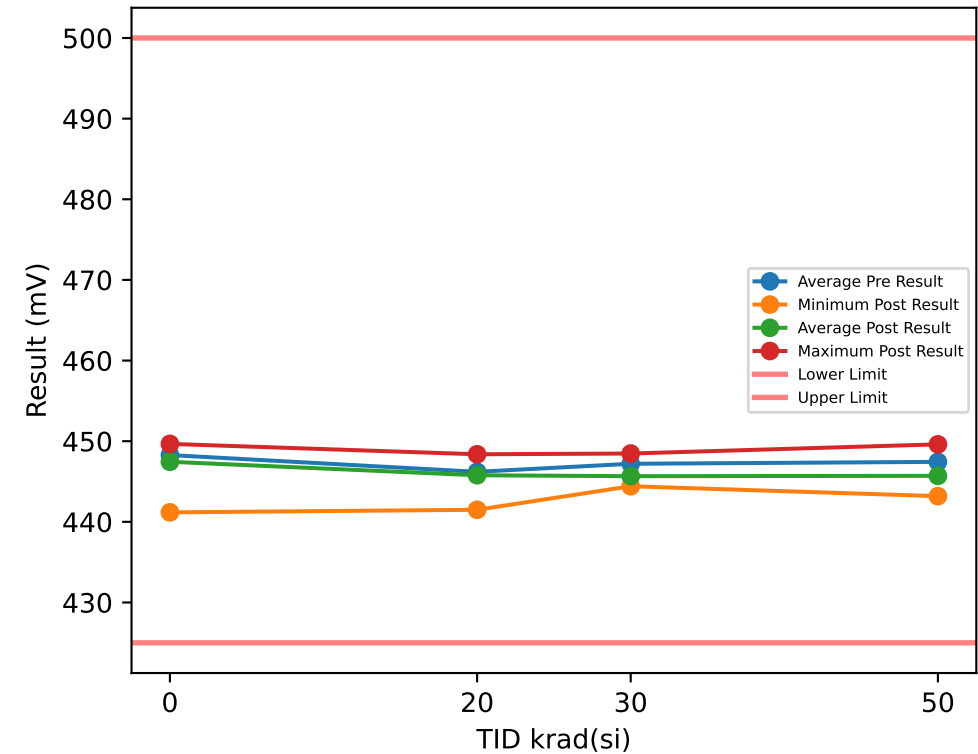


Test Statistics (V)

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	3.4412	3.4491	3.4574	0.0068853	3.4025	3.4392	3.4587	0.021581	-0.0508	-0.00986	0.0013	0.022901
20	3.425	3.4383	3.4535	0.0086088	3.4111	3.4307	3.448	0.012078	-0.019	-0.00765	0.0013	0.0080203
30	3.4267	3.4439	3.4665	0.012946	3.4122	3.4328	3.4602	0.012936	-0.0221	-0.0111	0.0009	0.0091052
50	3.4246	3.446	3.461	0.012784	3.4107	3.4328	3.4591	0.014463	-0.0343	-0.01323	0.0066	0.017189

Device Test: 14.21 THRESHOLD|HYST/PVIN/14/////@UVLO_HYST_PVIN

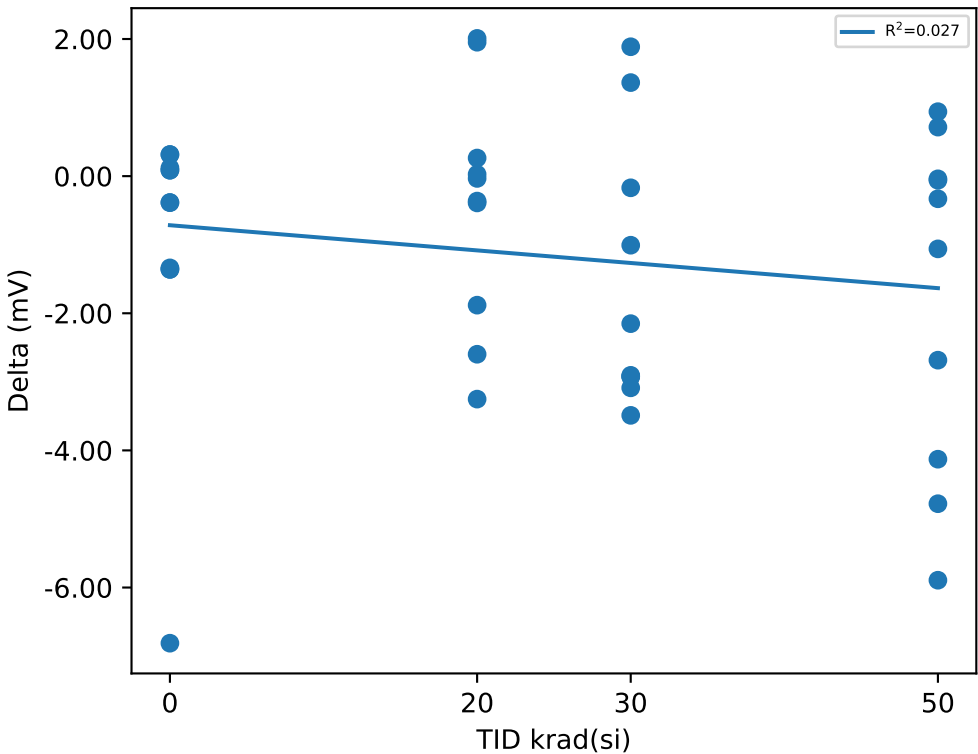
TID vs Result Stats



Test Results (Lower Limit = 425.0, Upper Limit = 500.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	447.99	441.18	-6.8119
516	0	CORRELATION	450.3	448.96	-1.3381
721	0	CORRELATION	446.04	446.16	0.121
723	0	CORRELATION	447.73	447.82	0.0868
729	0	CORRELATION	449.35	449.67	0.3146
990	20	Unbiased	449.68	447.08	-2.5976
991	20	Unbiased	443.81	443.77	-0.0333
992	20	Unbiased	444.75	441.49	-3.252
993	20	Unbiased	446.69	444.81	-1.8817
994	20	Unbiased	444.81	445.07	0.2641
995	20	Biased	447.38	447.01	-0.3637
996	20	Biased	446.37	448.38	2.0089
997	20	Biased	444.09	446.04	1.9531
998	20	Biased	446.43	446.04	-0.3907
999	20	Biased	448.03	448.05	0.027
1020	30	Unbiased	448.64	448.47	-0.1701
1021	30	Unbiased	447.99	445.84	-2.1514
1022	30	Unbiased	447.38	444.47	-2.9051
1023	30	Unbiased	443.44	444.81	1.3644
1024	30	Unbiased	445.13	447.02	1.8871
1025	30	Biased	450.3	446.81	-3.4889
1026	30	Biased	448.31	445.22	-3.0874
1027	30	Biased	448.05	445.13	-2.9219
1028	30	Biased	445.43	444.42	-1.0074
1029	30	Biased	447.34	444.42	-2.9272
1030	50	Unbiased	448.03	448.97	0.9401
1031	50	Unbiased	449.94	449.61	-0.3301
1032	50	Unbiased	445.39	446.11	0.7151
1033	50	Unbiased	444.81	444.75	-0.0603
1034	50	Unbiased	446.08	446.04	-0.0393
1035	50	Biased-84Hr-Anneal	446.84	445.78	-1.0609
1036	50	Biased-84Hr-Anneal	448.55	444.42	-4.1283
1037	50	Biased-84Hr-Anneal	445.87	443.18	-2.6841
1038	50	Biased-84Hr-Anneal	449.52	444.75	-4.7775
1039	50	Biased-84Hr-Anneal	449.34	443.44	-5.8934

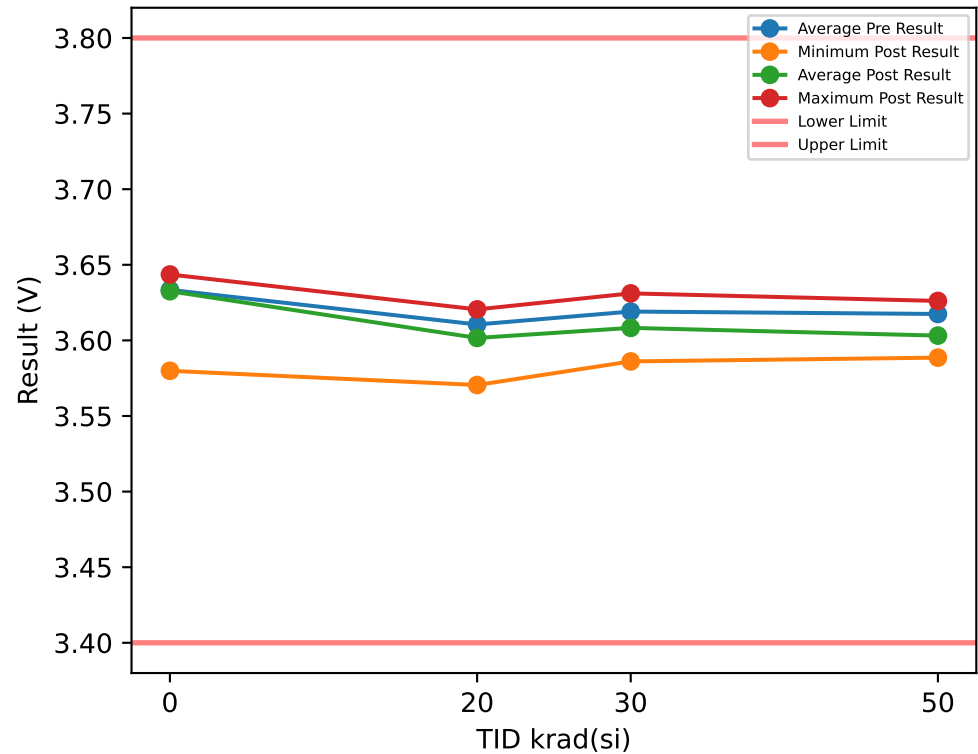
TID vs Post - Pre Exposure Delta



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	446.04	448.28	450.3	1.6306	441.18	446.76	449.67	3.3895	-6.8119	-1.5255	0.3146	3.0281
20	443.81	446.2	449.68	1.8668	441.49	445.78	448.38	2.0847	-3.252	-0.42659	2.0089	1.7401
30	443.44	447.2	450.3	1.9959	444.42	445.66	448.47	1.366	-3.4889	-1.5408	1.8871	1.9609
50	444.81	447.44	449.94	1.8733	443.18	445.7	449.61	2.1378	-5.8934	-1.7319	0.9401	2.4596

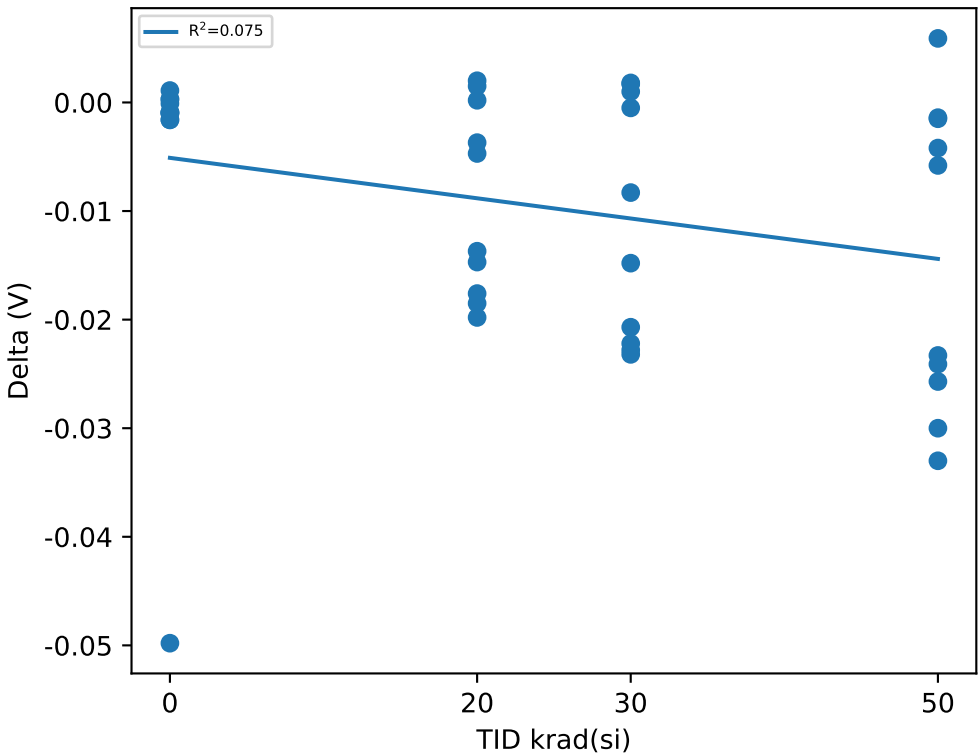
TID vs Result Stats



Test Results (Lower Limit = 3.4, Upper Limit = 3.8 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.6297	3.5799	-0.0498
516	0	CORRELATION	3.6327	3.6338	0.0011
721	0	CORRELATION	3.6228	3.6227	-0.0001
723	0	CORRELATION	3.6433	3.6423	-0.001
729	0	CORRELATION	3.6386	3.637	-0.0016
990	20	Unbiased	3.6142	3.5995	-0.0147
991	20	Unbiased	3.6287	3.6111	-0.0176
992	20	Unbiased	3.5961	3.5776	-0.0185
993	20	Unbiased	3.6178	3.598	-0.0198
994	20	Unbiased	3.5842	3.5705	-0.0137
995	20	Biased	3.6162	3.6125	-0.0037
996	20	Biased	3.6252	3.6205	-0.0047
997	20	Biased	3.605	3.6052	0.0002
998	20	Biased	3.6161	3.6181	0.002
999	20	Biased	3.6018	3.6033	0.0015
1020	30	Unbiased	3.6114	3.6109	-0.0005
1021	30	Unbiased	3.6394	3.6311	-0.0083
1022	30	Unbiased	3.6202	3.622	0.0018
1023	30	Unbiased	3.5982	3.5999	0.0017
1024	30	Unbiased	3.6295	3.6305	0.001
1025	30	Biased	3.6262	3.604	-0.0222
1026	30	Biased	3.6366	3.6134	-0.0232
1027	30	Biased	3.6148	3.592	-0.0228
1028	30	Biased	3.6068	3.5861	-0.0207
1029	30	Biased	3.6077	3.5929	-0.0148
1030	50	Unbiased	3.6202	3.6261	0.0059
1031	50	Unbiased	3.6067	3.6025	-0.0042
1032	50	Unbiased	3.6022	3.6008	-0.0014
1033	50	Unbiased	3.6142	3.6127	-0.0015
1034	50	Unbiased	3.613	3.6072	-0.0058
1035	50	Biased-84Hr-Anneal	3.6285	3.6052	-0.0233
1036	50	Biased-84Hr-Anneal	3.6237	3.5996	-0.0241
1037	50	Biased-84Hr-Anneal	3.6216	3.5886	-0.033
1038	50	Biased-84Hr-Anneal	3.6233	3.5933	-0.03
1039	50	Biased-84Hr-Anneal	3.6214	3.5957	-0.0257

TID vs Post - Pre Exposure Delta

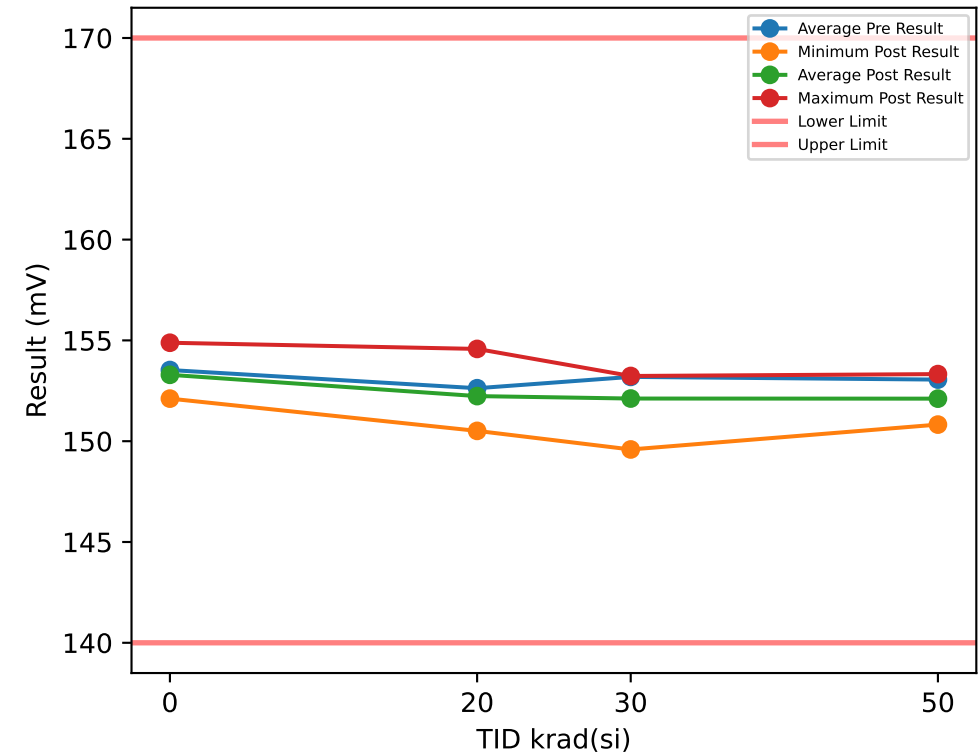


Test Statistics (V)

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	3.6228	3.6334	3.6433	0.0079308	3.5799	3.6231	3.6423	0.025213	-0.0498	-0.01028	0.0011	0.022116
20	3.5842	3.6105	3.6287	0.013675	3.5705	3.6016	3.6205	0.016381	-0.0198	-0.0089	0.002	0.0088053
30	3.5982	3.6191	3.6394	0.013638	3.5861	3.6083	3.6311	0.016048	-0.0232	-0.0108	0.0018	0.011097
50	3.6022	3.6175	3.6285	0.0082614	3.5886	3.6032	3.6261	0.010652	-0.033	-0.01431	0.0059	0.014204

Device Test: 14.24 THRESHOLD|HYST/VIN/14/////@UVLO_HYST_VIN

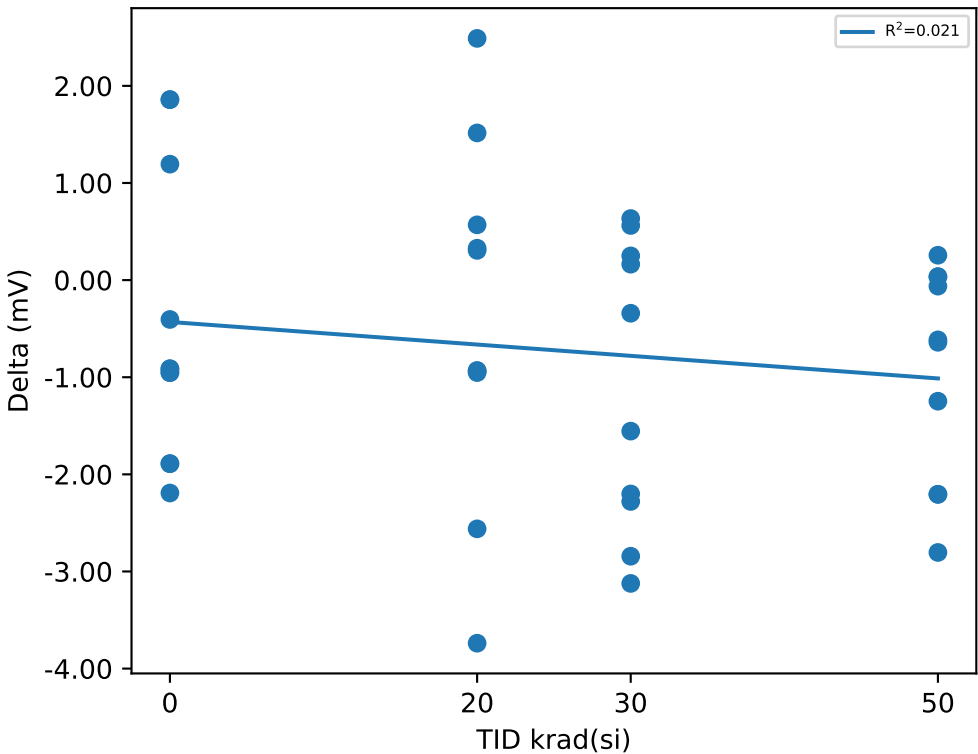
TID vs Result Stats



Test Results (Lower Limit = 140.0, Upper Limit = 170.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	154.58	152.39	-2.1921
516	0	CORRELATION	152.45	153.64	1.1937
721	0	CORRELATION	152.7	152.3	-0.4053
723	0	CORRELATION	153.03	152.11	-0.913
729	0	CORRELATION	154.9	153.01	-1.8899
990	20	Unbiased	154.27	153.34	-0.9368
991	20	Unbiased	153.7	151.14	-2.5611
992	20	Unbiased	152.38	151.45	-0.9301
993	20	Unbiased	155.2	151.46	-3.7385
994	20	Unbiased	151.46	150.51	-0.9522
995	20	Biased	152.13	152.7	0.5691
996	20	Biased	153.63	153.96	0.3283
997	20	Biased	151.14	151.45	0.3059
998	20	Biased	152.09	154.58	2.4887
999	20	Biased	150.26	151.78	1.5154
1020	30	Unbiased	151.14	150.79	-0.3412
1021	30	Unbiased	155.51	153.24	-2.279
1022	30	Unbiased	152.45	152.7	0.2494
1023	30	Unbiased	151.77	152.4	0.634
1024	30	Unbiased	154.9	152.7	-2.2018
1025	30	Biased	152.13	152.3	0.1638
1026	30	Biased	155.2	152.36	-2.8431
1027	30	Biased	152.71	149.59	-3.1231
1028	30	Biased	151.82	152.38	0.5625
1029	30	Biased	154.26	152.7	-1.5549
1030	50	Unbiased	152.45	152.38	-0.0622
1031	50	Unbiased	155.82	153.02	-2.8042
1032	50	Unbiased	152.39	151.78	-0.6153
1033	50	Unbiased	153.03	152.39	-0.6402
1034	50	Unbiased	153.07	153.33	0.2561
1035	50	Biased-84Hr-Anneal	151.74	151.78	0.0351
1036	50	Biased-84Hr-Anneal	153.03	150.82	-2.2054
1037	50	Biased-84Hr-Anneal	152.68	152.71	0.035
1038	50	Biased-84Hr-Anneal	153.03	150.82	-2.2054
1039	50	Biased-84Hr-Anneal	153.33	152.08	-1.2469

TID vs Post - Pre Exposure Delta

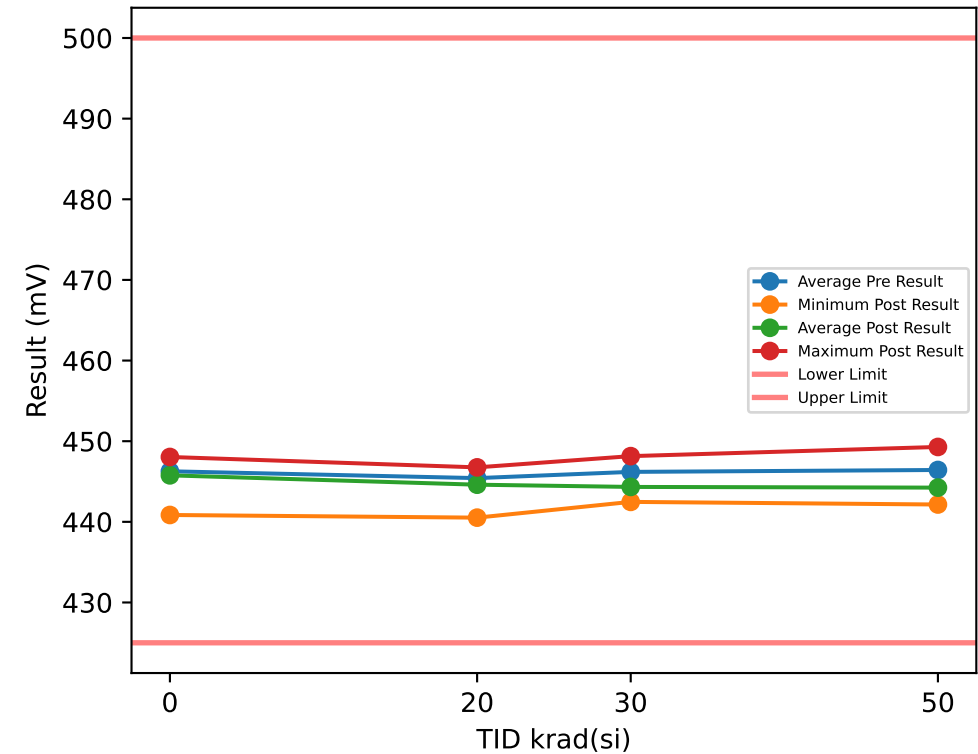


Test Statistics (mV)

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	152.45	153.53	154.9	1.1271	152.11	152.69	153.64	0.62963	-2.1921	-0.84132	1.1937	1.3473
20	150.26	152.63	155.2	1.5367	150.51	152.24	154.58	1.3382	-3.7385	-0.39113	2.4887	1.846
30	151.14	153.19	155.51	1.6166	149.59	152.12	153.24	1.0876	-3.1231	-1.0733	0.634	1.4795
50	151.74	153.06	155.82	1.075	150.82	152.11	153.33	0.84013	-2.8042	-0.94534	0.2561	1.109

Device Test: 14.3 THRESHOLD|HYST/PVIN/4.5////@UVLO_HYST_PVIN

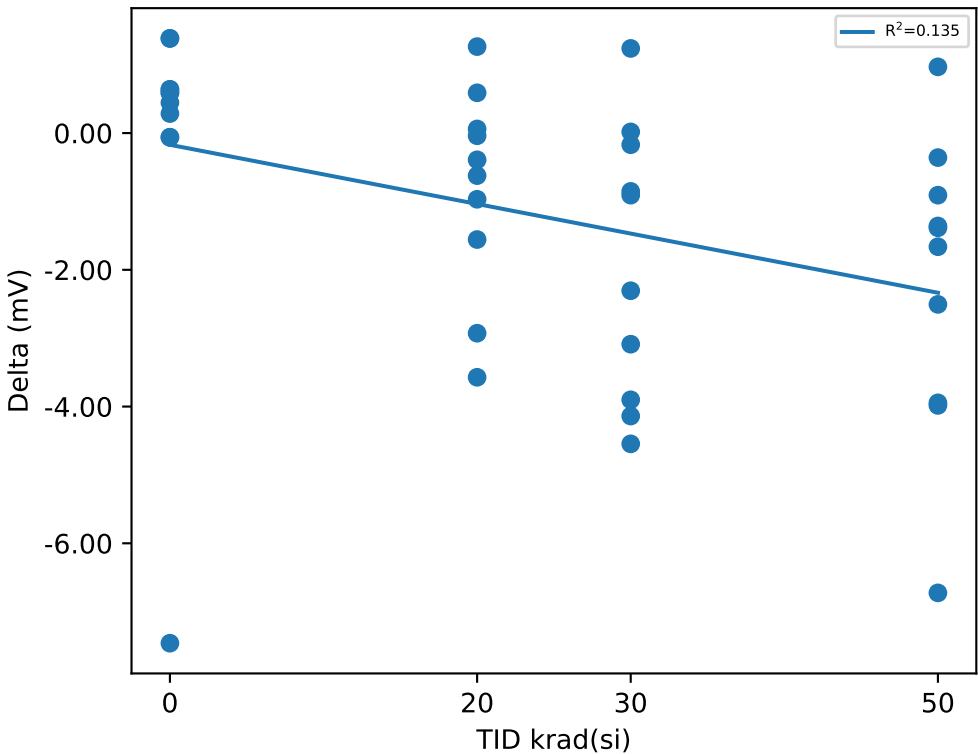
TID vs Result Stats



Test Results (Lower Limit = 425.0, Upper Limit = 500.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	448.31	440.85	-7.4611
516	0	CORRELATION	446.73	447.01	0.2855
721	0	CORRELATION	445.07	445.51	0.4455
723	0	CORRELATION	443.83	445.22	1.3848
729	0	CORRELATION	447.4	448.04	0.6391
990	20	Unbiased	449.68	446.11	-3.5718
991	20	Unbiased	443.48	444.75	1.2649
992	20	Unbiased	443.45	440.52	-2.9272
993	20	Unbiased	445.39	443.83	-1.5569
994	20	Unbiased	443.51	444.1	0.5889
995	20	Biased	445.1	445.07	-0.0389
996	20	Biased	446.04	446.11	0.0605
997	20	Biased	445.07	444.1	-0.9683
998	20	Biased	445.13	444.74	-0.3909
999	20	Biased	447.38	446.75	-0.6222
1020	30	Unbiased	448.32	448.15	-0.1701
1021	30	Unbiased	446.69	445.84	-0.853
1022	30	Unbiased	444.13	444.15	0.0172
1023	30	Unbiased	443.77	442.86	-0.908
1024	30	Unbiased	442.86	444.1	1.2381
1025	30	Biased	449.65	445.51	-4.1386
1026	30	Biased	446.69	443.6	-3.0879
1027	30	Biased	448.38	443.83	-4.5455
1028	30	Biased	444.78	442.47	-2.3058
1029	30	Biased	446.69	442.79	-3.9011
1030	50	Unbiased	447.7	447.34	-0.3585
1031	50	Unbiased	448.32	449.29	0.9685
1032	50	Unbiased	443.12	442.21	-0.9082
1033	50	Unbiased	444.16	442.8	-1.359
1034	50	Unbiased	444.78	443.12	-1.662
1035	50	Biased-84Hr-Anneal	446.19	444.81	-1.3852
1036	50	Biased-84Hr-Anneal	446.6	444.1	-2.5056
1037	50	Biased-84Hr-Anneal	446.84	442.86	-3.983
1038	50	Biased-84Hr-Anneal	448.87	442.15	-6.7251
1039	50	Biased-84Hr-Anneal	447.71	443.77	-3.9455

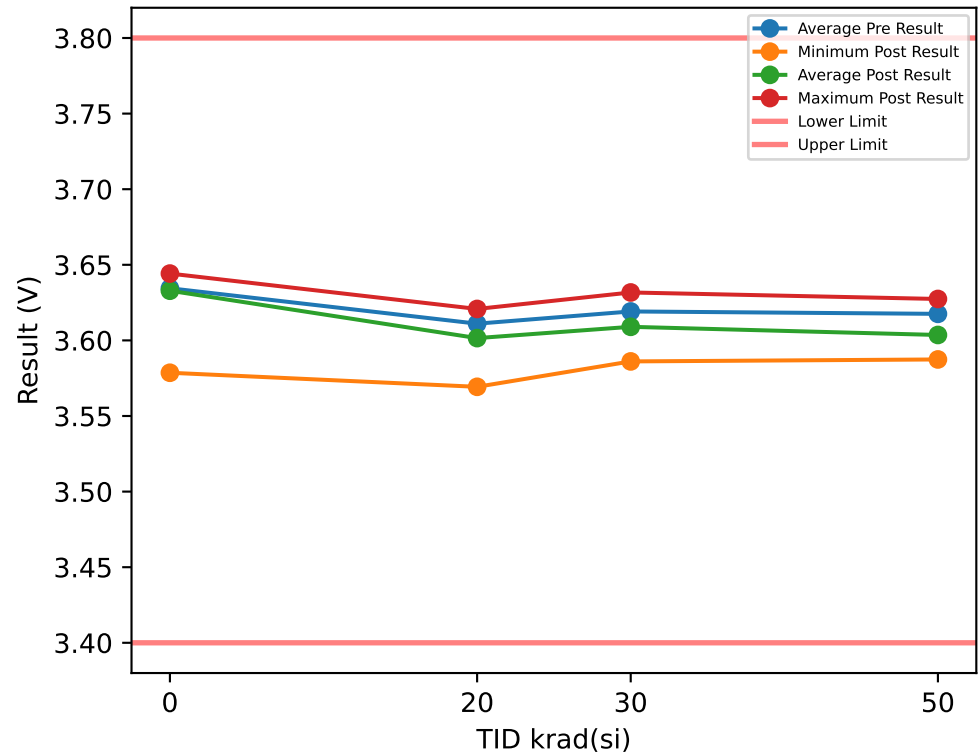
TID vs Post - Pre Exposure Delta



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	443.83	446.27	448.31	1.8065	440.85	445.33	448.04	2.7525	-7.4611	-0.94124	1.3848	3.6689
20	443.45	445.42	449.68	1.9424	440.52	444.61	446.75	1.7375	-3.5718	-0.81619	1.2649	1.5099
30	442.86	446.2	449.65	2.2418	442.47	444.33	448.15	1.7343	-4.5455	-1.8655	1.2381	2.0048
50	443.12	446.43	448.87	1.883	442.15	444.24	449.29	2.3427	-6.7251	-2.1864	0.9685	2.1998

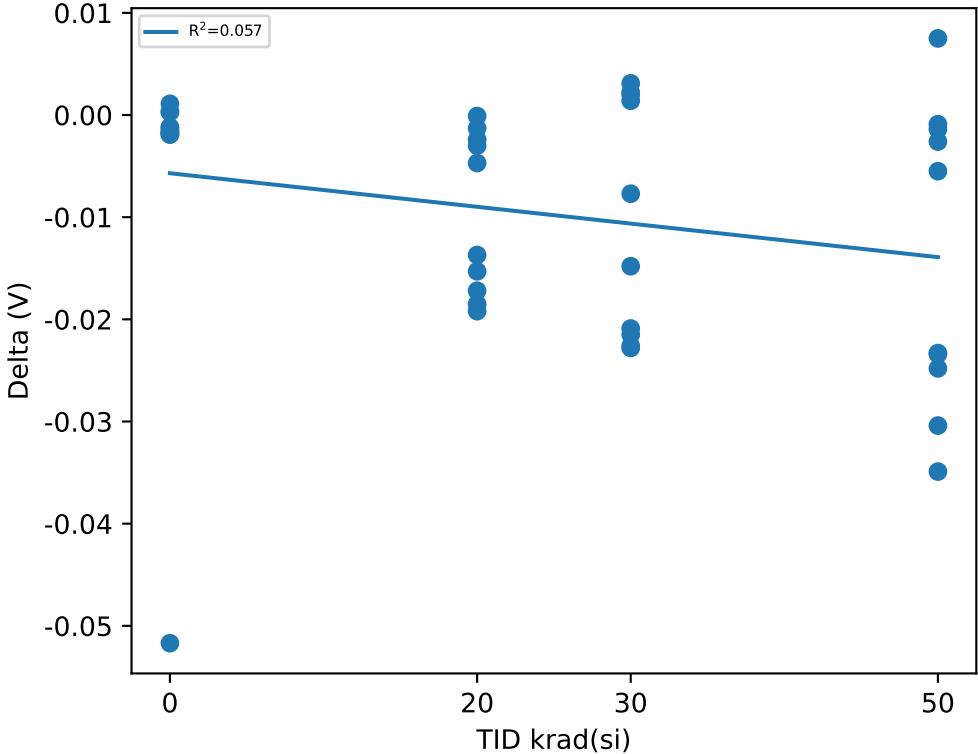
TID vs Result Stats



Test Results (Lower Limit = 3.4, Upper Limit = 3.8 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.6303	3.5786	-0.0517
516	0	CORRELATION	3.6327	3.6338	0.0011
721	0	CORRELATION	3.626	3.6242	-0.0018
723	0	CORRELATION	3.6439	3.6423	-0.0016
729	0	CORRELATION	3.6395	3.6376	-0.0019
990	20	Unbiased	3.6139	3.6002	-0.0137
991	20	Unbiased	3.628	3.6108	-0.0172
992	20	Unbiased	3.5964	3.5779	-0.0185
993	20	Unbiased	3.6172	3.598	-0.0192
994	20	Unbiased	3.5846	3.5693	-0.0153
995	20	Biased	3.6174	3.6144	-0.003
996	20	Biased	3.6255	3.6208	-0.0047
997	20	Biased	3.6053	3.6052	-0.0001
998	20	Biased	3.618	3.6156	-0.0024
999	20	Biased	3.6043	3.603	-0.0013
1020	30	Unbiased	3.6124	3.6138	0.0014
1021	30	Unbiased	3.6394	3.6317	-0.0077
1022	30	Unbiased	3.6202	3.6233	0.0031
1023	30	Unbiased	3.5982	3.6002	0.002
1024	30	Unbiased	3.6292	3.6314	0.0022
1025	30	Biased	3.6252	3.6043	-0.0209
1026	30	Biased	3.6359	3.6131	-0.0228
1027	30	Biased	3.6145	3.593	-0.0215
1028	30	Biased	3.6087	3.5861	-0.0226
1029	30	Biased	3.6077	3.5929	-0.0148
1030	50	Unbiased	3.6199	3.6274	0.0075
1031	50	Unbiased	3.6067	3.6041	-0.0026
1032	50	Unbiased	3.6022	3.6008	-0.0014
1033	50	Unbiased	3.6133	3.6124	-0.0009
1034	50	Unbiased	3.6137	3.6082	-0.0055
1035	50	Biased-84Hr-Anneal	3.6288	3.6055	-0.0233
1036	50	Biased-84Hr-Anneal	3.6233	3.5999	-0.0234
1037	50	Biased-84Hr-Anneal	3.6223	3.5874	-0.0349
1038	50	Biased-84Hr-Anneal	3.6237	3.5933	-0.0304
1039	50	Biased-84Hr-Anneal	3.6217	3.5969	-0.0248

TID vs Post - Pre Exposure Delta

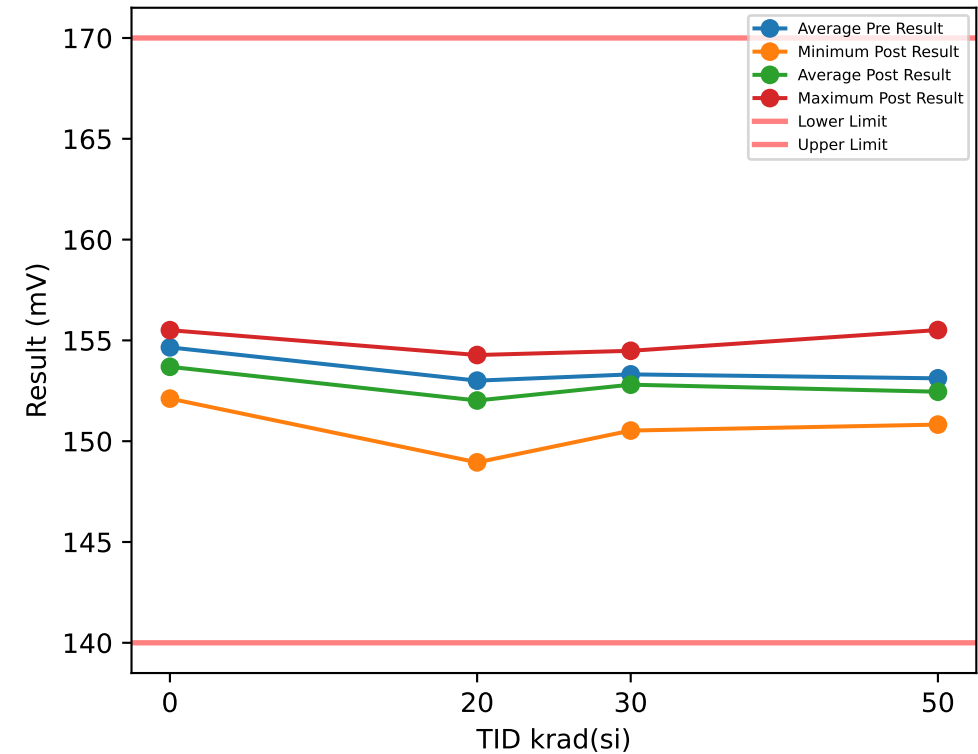


Test Statistics (V)

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	3.626	3.6345	3.6439	0.0071848	3.5786	3.6233	3.6423	0.025858	-0.0517	-0.01118	0.0011	0.022686
20	3.5846	3.6111	3.628	0.013431	3.5693	3.6015	3.6208	0.016492	-0.0192	-0.00954	-0.0001	0.0078666
30	3.5982	3.6191	3.6394	0.013232	3.5861	3.609	3.6317	0.016332	-0.0228	-0.01016	0.0031	0.011528
50	3.6022	3.6176	3.6288	0.0083599	3.5874	3.6036	3.6274	0.011075	-0.0349	-0.01397	0.0075	0.014878

Device Test: 14.6 THRESHOLD|HYST/VIN/4.5////@UVLO_HYST_VIN

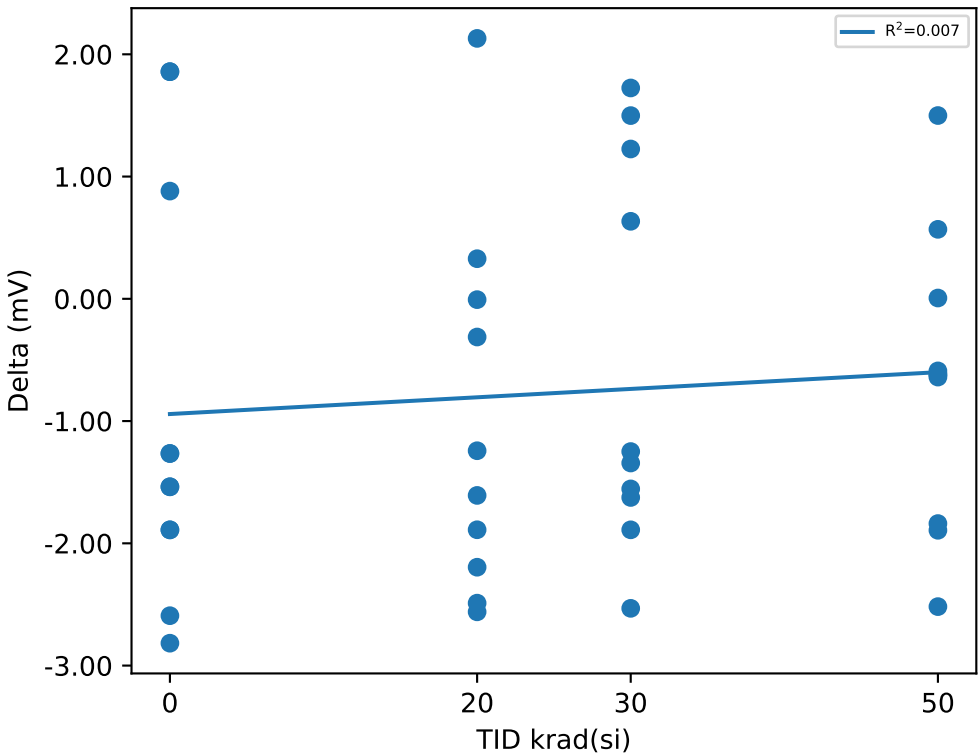
TID vs Result Stats



Test Results (Lower Limit = 140.0, Upper Limit = 170.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	155.2	152.38	-2.8169
516	0	CORRELATION	152.76	153.64	0.8811
721	0	CORRELATION	156.14	153.55	-2.5919
723	0	CORRELATION	153.65	152.11	-1.5376
729	0	CORRELATION	155.52	153.63	-1.8899
990	20	Unbiased	154.27	153.96	-0.3124
991	20	Unbiased	153.07	150.51	-2.5604
992	20	Unbiased	152.7	151.45	-1.2426
993	20	Unbiased	154.58	152.09	-2.4893
994	20	Unbiased	150.84	148.95	-1.889
995	20	Biased	152.14	154.27	2.1301
996	20	Biased	153.95	154.27	0.3281
997	20	Biased	151.45	151.45	-0.0067
998	20	Biased	153.96	151.77	-2.1954
999	20	Biased	153.07	151.46	-1.6081
1020	30	Unbiased	152.38	153.61	1.2255
1021	30	Unbiased	155.83	154.48	-1.343
1022	30	Unbiased	152.76	154.26	1.4987
1023	30	Unbiased	152.08	152.71	0.634
1024	30	Unbiased	154.27	152.38	-1.8895
1025	30	Biased	151.2	152.92	1.7247
1026	30	Biased	154.58	152.05	-2.5318
1027	30	Biased	151.78	150.53	-1.2493
1028	30	Biased	154.01	152.38	-1.6248
1029	30	Biased	154.26	152.7	-1.5549
1030	50	Unbiased	152.13	153.63	1.4992
1031	50	Unbiased	155.51	155.51	0.0066
1032	50	Unbiased	152.39	151.78	-0.6153
1033	50	Unbiased	151.78	151.14	-0.6402
1034	50	Unbiased	153.7	154.27	0.5684
1035	50	Biased-84Hr-Anneal	152.37	151.78	-0.5896
1036	50	Biased-84Hr-Anneal	153.03	151.14	-1.8933
1037	50	Biased-84Hr-Anneal	153.3	151.46	-1.8383
1038	50	Biased-84Hr-Anneal	153.34	150.82	-2.5177
1039	50	Biased-84Hr-Anneal	153.64	153.02	-0.6229

TID vs Post - Pre Exposure Delta

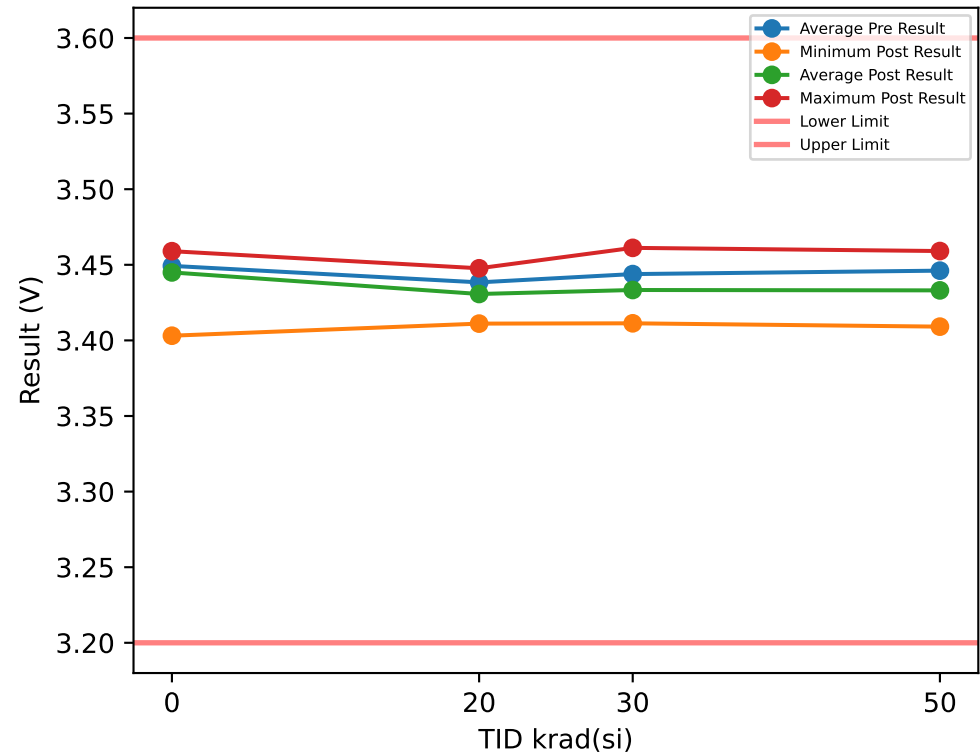


Test Statistics (mV)

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	152.76	154.65	156.14	1.4016	152.11	153.06	153.64	0.75121	-2.8169	-1.591	0.8811	1.4755
20	150.84	153	154.58	1.2402	148.95	152.02	154.27	1.7198	-2.5604	-0.98457	2.1301	1.5026
30	151.2	153.31	155.83	1.4812	150.53	152.8	154.48	1.1417	-2.5318	-0.51104	1.7247	1.5957
50	151.78	153.12	155.51	1.0682	150.82	152.45	155.51	1.5771	-2.5177	-0.66431	1.4992	1.2011

Device Test: 14.7 THRESHOLD|RISE/PVIN/5////@UVLO_RISE_PVIN

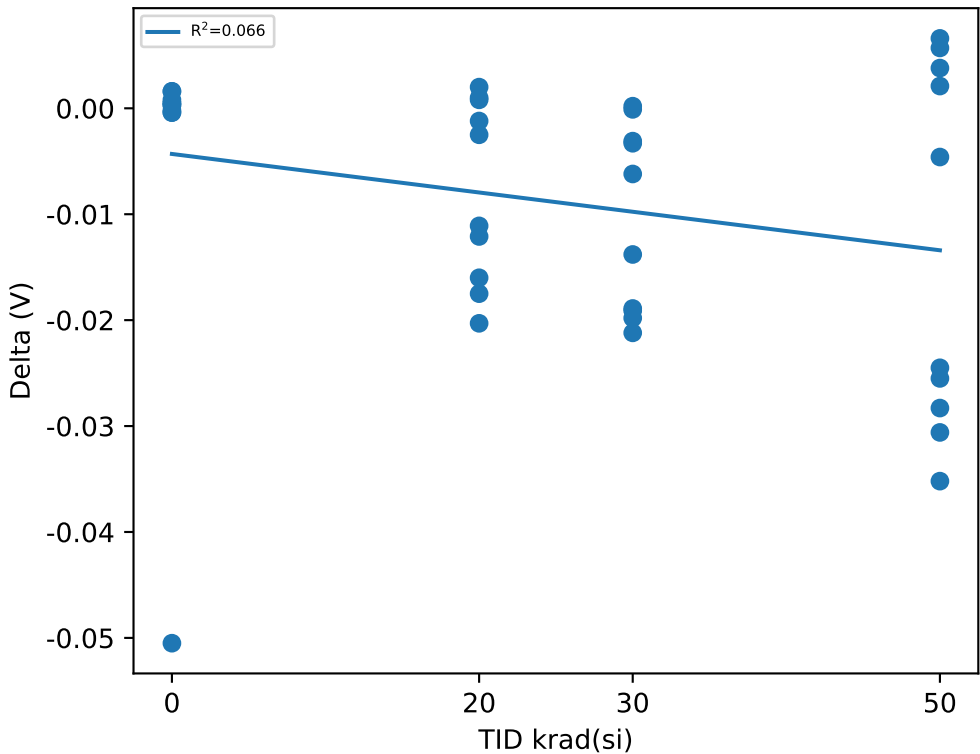
TID vs Result Stats



Test Results (Lower Limit = 3.2, Upper Limit = 3.6 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.4536	3.4031	-0.0505
516	0	CORRELATION	3.4506	3.4504	-0.0002
721	0	CORRELATION	3.4442	3.445	0.0008
723	0	CORRELATION	3.4406	3.4409	0.0003
729	0	CORRELATION	3.4574	3.459	0.0016
990	20	Unbiased	3.4535	3.436	-0.0175
991	20	Unbiased	3.4328	3.4207	-0.0121
992	20	Unbiased	3.4314	3.4111	-0.0203
993	20	Unbiased	3.4426	3.4315	-0.0111
994	20	Unbiased	3.4341	3.4181	-0.016
995	20	Biased	3.4412	3.4432	0.002
996	20	Biased	3.4424	3.4412	-0.0012
997	20	Biased	3.4358	3.4333	-0.0025
998	20	Biased	3.4233	3.4241	0.0008
999	20	Biased	3.4467	3.4477	0.001
1020	30	Unbiased	3.4645	3.4612	-0.0033
1021	30	Unbiased	3.4423	3.4392	-0.0031
1022	30	Unbiased	3.4409	3.4347	-0.0062
1023	30	Unbiased	3.4286	3.4285	-0.0001
1024	30	Unbiased	3.4318	3.432	0.0002
1025	30	Biased	3.4669	3.4457	-0.0212
1026	30	Biased	3.441	3.4219	-0.0191
1027	30	Biased	3.4474	3.4276	-0.0198
1028	30	Biased	3.4302	3.4113	-0.0189
1029	30	Biased	3.445	3.4312	-0.0138
1030	50	Unbiased	3.4513	3.4551	0.0038
1031	50	Unbiased	3.4525	3.4591	0.0066
1032	50	Unbiased	3.428	3.4337	0.0057
1033	50	Unbiased	3.4243	3.4197	-0.0046
1034	50	Unbiased	3.4363	3.4384	0.0021
1035	50	Biased-84Hr-Anneal	3.4553	3.4298	-0.0255
1036	50	Biased-84Hr-Anneal	3.4539	3.4294	-0.0245
1037	50	Biased-84Hr-Anneal	3.4397	3.4091	-0.0306
1038	50	Biased-84Hr-Anneal	3.4581	3.4298	-0.0283
1039	50	Biased-84Hr-Anneal	3.4619	3.4267	-0.0352

TID vs Post - Pre Exposure Delta

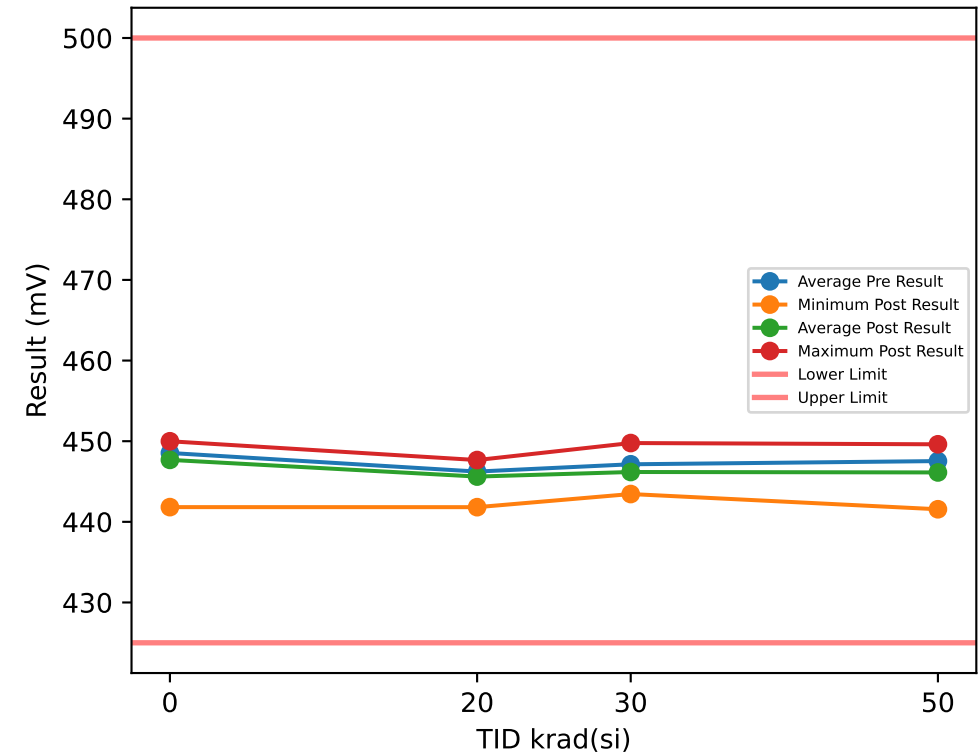


Test Statistics (V)

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	3.4406	3.4493	3.4574	0.0068463	3.4031	3.4397	3.459	0.021541	-0.0505	-0.0096	0.0016	0.022873
20	3.4233	3.4384	3.4535	0.008641	3.4111	3.4307	3.4477	0.011914	-0.0203	-0.00769	0.002	0.0086019
30	3.4286	3.4439	3.4669	0.013144	3.4113	3.4333	3.4612	0.013518	-0.0212	-0.01053	0.0002	0.0088451
50	3.4243	3.4461	3.4619	0.01311	3.4091	3.4331	3.4591	0.014983	-0.0352	-0.01305	0.0066	0.017126

Device Test: 14.9 THRESHOLD|HYST/PVIN/5////@UVLO_HYST_PVIN

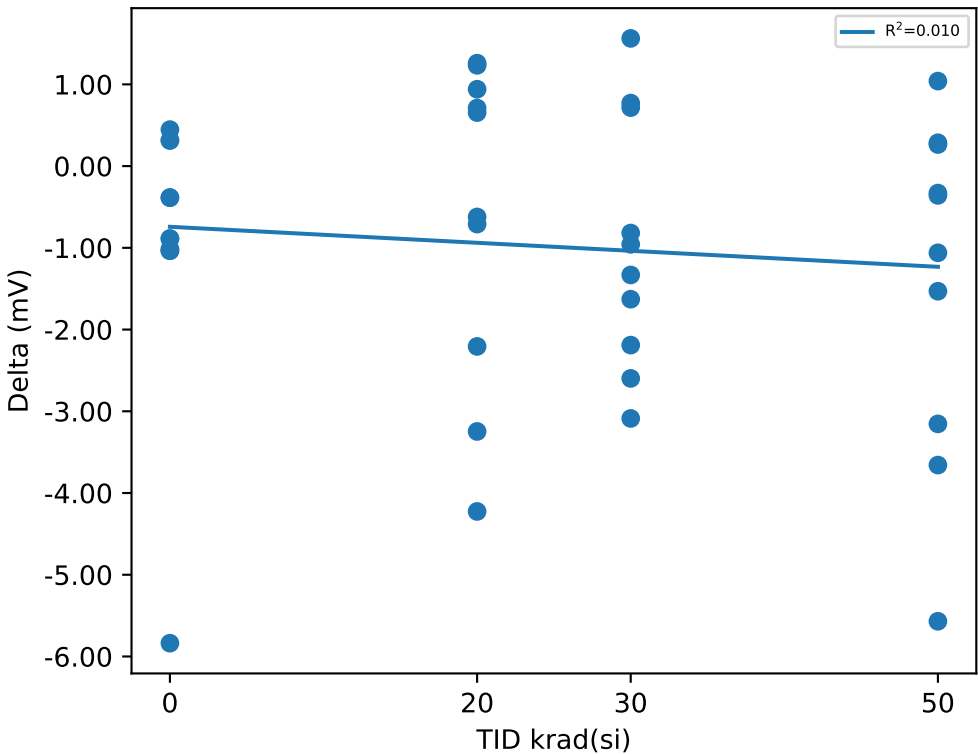
TID vs Result Stats



Test Results (Lower Limit = 425.0, Upper Limit = 500.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	447.66	441.82	-5.8375
516	0	CORRELATION	450.62	449.61	-1.0133
721	0	CORRELATION	447.01	447.46	0.4462
723	0	CORRELATION	447.73	446.84	-0.8876
729	0	CORRELATION	449.68	449.99	0.3146
990	20	Unbiased	449.68	446.43	-3.2468
991	20	Unbiased	444.45	445.4	0.9405
992	20	Unbiased	446.04	441.82	-4.2256
993	20	Unbiased	447.34	445.13	-2.2064
994	20	Unbiased	444.81	444.1	-0.7098
995	20	Biased	446.4	447.66	1.2594
996	20	Biased	446.04	446.75	0.7102
997	20	Biased	444.74	445.4	0.6547
998	20	Biased	444.81	446.04	1.2327
999	20	Biased	448.03	447.4	-0.6223
1020	30	Unbiased	450.59	449.77	-0.8188
1021	30	Unbiased	446.69	447.46	0.7707
1022	30	Unbiased	446.73	445.77	-0.9569
1023	30	Unbiased	445.07	445.78	0.7155
1024	30	Unbiased	445.13	446.69	1.5624
1025	30	Biased	450.3	448.11	-2.1903
1026	30	Biased	447.66	444.57	-3.0877
1027	30	Biased	447.08	444.48	-2.5975
1028	30	Biased	444.78	443.45	-1.3319
1029	30	Biased	447.34	445.71	-1.6287
1030	50	Unbiased	449.97	449.62	-0.3585
1031	50	Unbiased	449.94	449.61	-0.3301
1032	50	Unbiased	444.74	445.78	1.0399
1033	50	Unbiased	444.16	444.42	0.2641
1034	50	Unbiased	446.08	446.36	0.2855
1035	50	Biased-84Hr-Anneal	447.17	446.11	-1.0609
1036	50	Biased-84Hr-Anneal	448.55	447.02	-1.5312
1037	50	Biased-84Hr-Anneal	445.22	441.56	-3.6581
1038	50	Biased-84Hr-Anneal	449.2	446.04	-3.1541
1039	50	Biased-84Hr-Anneal	450.31	444.74	-5.5692

TID vs Post - Pre Exposure Delta

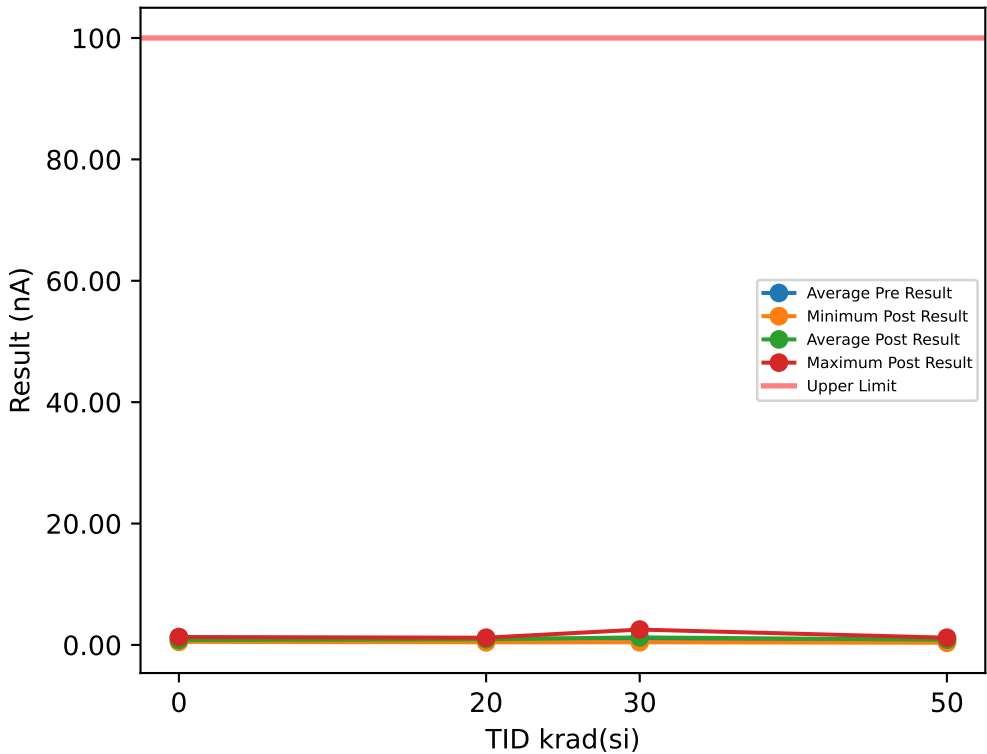


Test Statistics (mV)

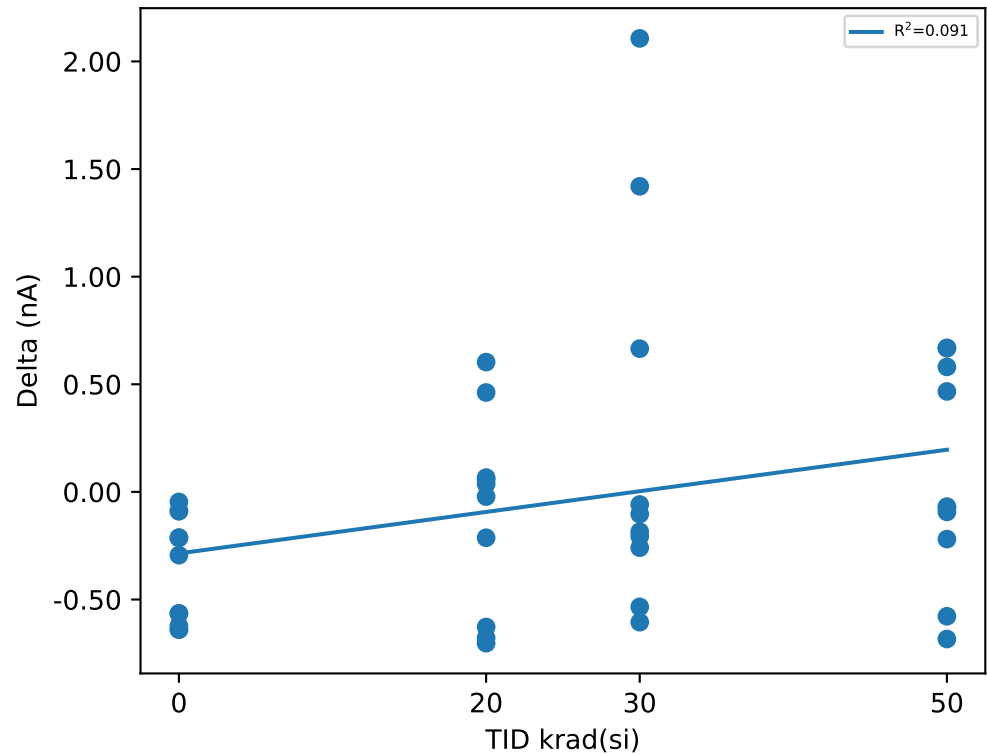
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	447.01	448.54	450.62	1.5325	441.82	447.15	449.99	3.2663	-5.8375	-1.3955	0.4462	2.5716
20	444.45	446.23	449.68	1.6949	441.82	445.61	447.66	1.7185	-4.2256	-0.62134	1.2594	1.9782
30	444.78	447.14	450.59	2.0132	443.45	446.18	449.77	1.8851	-3.0877	-0.95632	1.5624	1.5453
50	444.16	447.53	450.31	2.3588	441.56	446.13	449.62	2.3798	-5.5692	-1.4073	1.0399	2.0945

Device Test: 15.1 LEAK|UNPOWERED/EN/0////@EN_LKG_CURR

TID vs Result Stats



TID vs Post - Pre Exposure Delta



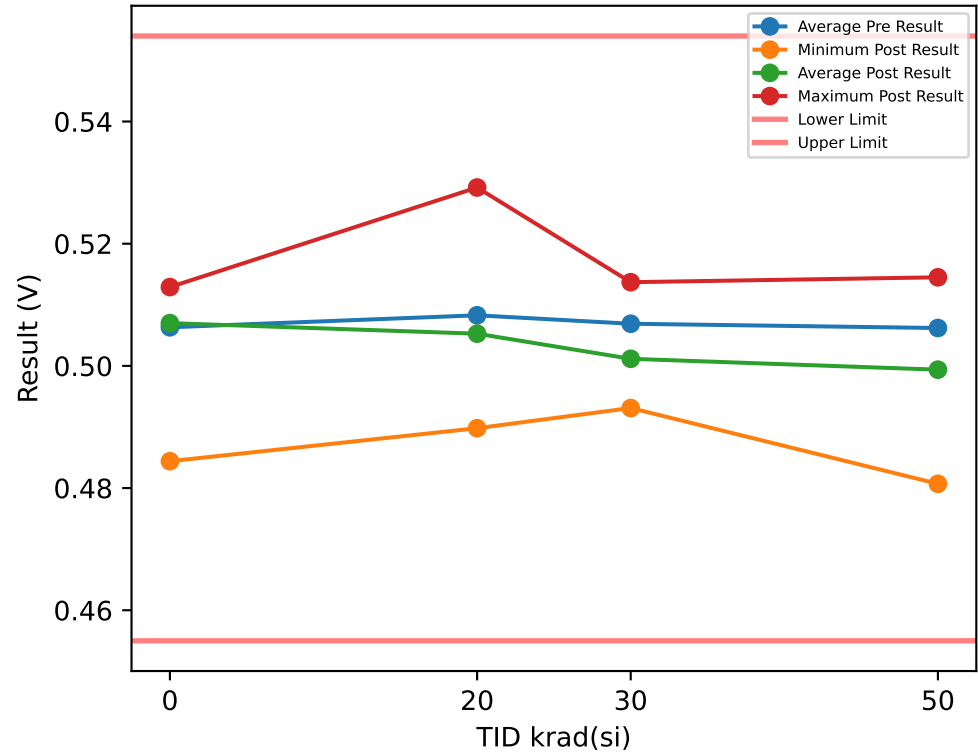
Test Results (Upper Limit = 100.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.1375	0.5157	-0.6218
516	0	CORRELATION	1.3527	1.3061	-0.0466
721	0	CORRELATION	1.2561	0.9621	-0.294
723	0	CORRELATION	1.1554	0.9423	-0.2131
729	0	CORRELATION	1.1429	1.0538	-0.0891
990	20	Unbiased	1.1492	1.1273	-0.0219
991	20	Unbiased	1.1185	0.4907	-0.6278
992	20	Unbiased	0.5688	1.1718	0.603
993	20	Unbiased	1.2936	1.0805	-0.2131
994	20	Unbiased	1.1024	0.4252	-0.6772
995	20	Biased	1.1373	1.1937	0.0564
996	20	Biased	0.5407	1.0025	0.4618
997	20	Biased	1.2655	0.5625	-0.703
998	20	Biased	1.0711	1.1375	0.0664
999	20	Biased	1.028	1.0649	0.0369
1020	30	Unbiased	0.4252	2.5322	2.107
1021	30	Unbiased	1.1687	0.9839	-0.1848
1022	30	Unbiased	1.0998	1.0413	-0.0585
1023	30	Unbiased	1.1937	0.9869	-0.2068
1024	30	Unbiased	1.0399	0.4345	-0.6054
1025	30	Biased	1.1029	0.8436	-0.2593
1026	30	Biased	1.0907	2.5104	1.4197
1027	30	Biased	1.0774	0.9744	-0.103
1028	30	Biased	1.0873	0.5531	-0.5342
1029	30	Biased	0.9496	1.6151	0.6655
1030	50	Unbiased	1.0561	0.4782	-0.5779
1031	50	Unbiased	0.4782	1.1469	0.6687
1032	50	Unbiased	1.2592	1.0399	-0.2193
1033	50	Unbiased	1.0368	0.3533	-0.6835
1034	50	Unbiased	1.0904	1.022	-0.0684
1035	50	Biased-84Hr-Anneal	0.5248	1.1929	0.6681
1036	50	Biased-84Hr-Anneal	0.6243	0.55	-0.0743
1037	50	Biased-84Hr-Anneal	0.4717	1.0524	0.5807
1038	50	Biased-84Hr-Anneal	0.7023	0.6093	-0.093
1039	50	Biased-84Hr-Anneal	0.6738	1.1406	0.4668

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	1.1375	1.2089	1.3527	0.093838	0.5157	0.956	1.3061	0.28558	-0.6218	-0.25292	-0.0466	0.22845
20	0.5407	1.0275	1.2936	0.26194	0.4252	0.92566	1.1937	0.30528	-0.703	-0.10185	0.603	0.45643
30	0.4252	1.0235	1.1937	0.22044	0.4345	1.2475	2.5322	0.74097	-0.6054	0.22402	2.107	0.89481
50	0.4717	0.79176	1.2592	0.29052	0.3533	0.85855	1.1929	0.32127	-0.6835	0.06679	0.6687	0.50245

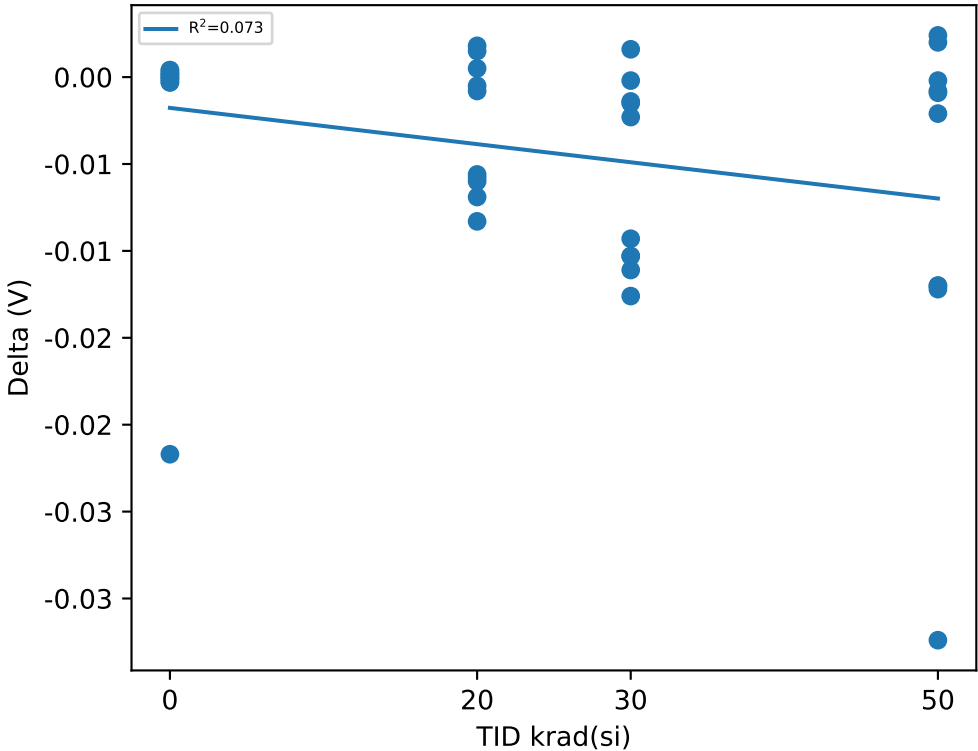
TID vs Result Stats



Test Results (Lower Limit = 0.455, Upper Limit = 0.554 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5061	0.4844	-0.0217
516	0	CORRELATION	0.4997	0.4998	0.0001
721	0	CORRELATION	0.5036	0.5036	0
723	0	CORRELATION	0.5097	0.5096	-0.0001
729	0	CORRELATION	0.5125	0.5127	0.0002
990	20	Unbiased	0.5153	0.5084	-0.0069
991	20	Unbiased	0.5103	0.5047	-0.0056
992	20	Unbiased	0.5141	0.5058	-0.0083
993	20	Unbiased	0.5029	0.4969	-0.006
994	20	Unbiased	0.4956	0.4898	-0.0058
995	20	Biased	0.53	0.5292	-0.0008
996	20	Biased	0.5129	0.5134	0.0005
997	20	Biased	0.4939	0.4957	0.0018
998	20	Biased	0.5081	0.5076	-0.0005
999	20	Biased	0.4997	0.5012	0.0015
1020	30	Unbiased	0.5129	0.5106	-0.0023
1021	30	Unbiased	0.4967	0.4952	-0.0015
1022	30	Unbiased	0.5044	0.5042	-0.0002
1023	30	Unbiased	0.5151	0.5137	-0.0014
1024	30	Unbiased	0.4972	0.4988	0.0016
1025	30	Biased	0.5056	0.4945	-0.0111
1026	30	Biased	0.5189	0.5063	-0.0126
1027	30	Biased	0.5034	0.4931	-0.0103
1028	30	Biased	0.5113	0.501	-0.0103
1029	30	Biased	0.5035	0.4942	-0.0093
1030	50	Unbiased	0.505	0.5041	-0.0009
1031	50	Unbiased	0.5166	0.5145	-0.0021
1032	50	Unbiased	0.5036	0.5056	0.002
1033	50	Unbiased	0.4959	0.4957	-0.0002
1034	50	Unbiased	0.5047	0.5039	-0.0008
1035	50	Biased-84Hr-Anneal	0.5217	0.5097	-0.012
1036	50	Biased-84Hr-Anneal	0.4929	0.4807	-0.0122
1037	50	Biased-84Hr-Anneal	0.5061	0.4941	-0.012
1038	50	Biased-84Hr-Anneal	0.4995	0.5019	0.0024
1039	50	Biased-84Hr-Anneal	0.516	0.4836	-0.0324

TID vs Post - Pre Exposure Delta

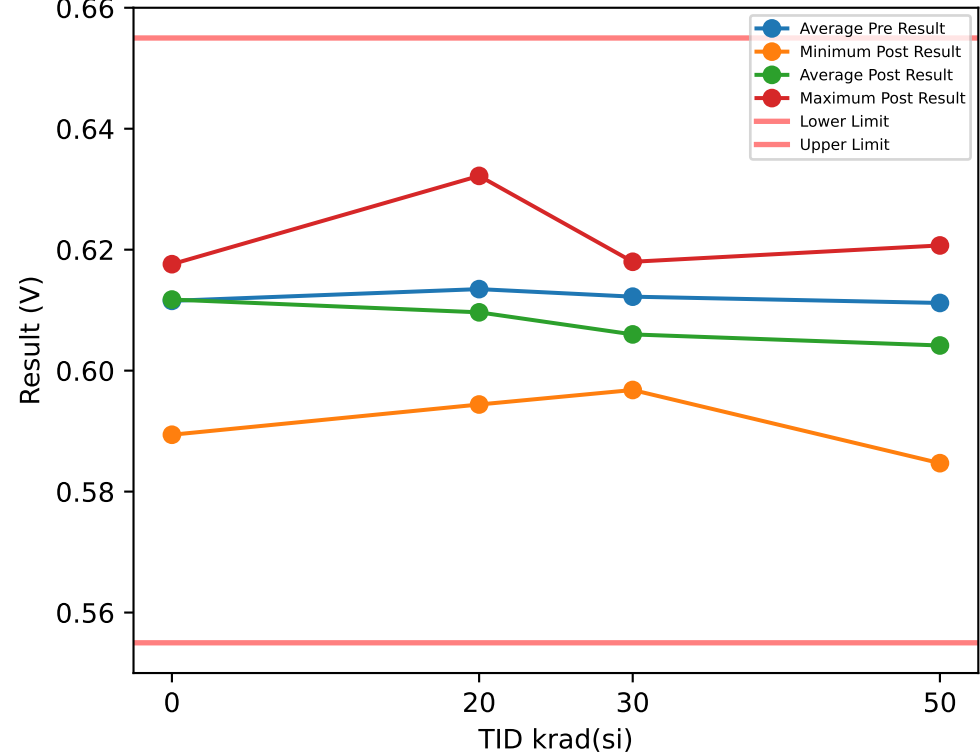


Test Statistics (V)

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	0.4997	0.50632	0.5125	0.0050222	0.4844	0.50202	0.5127	0.011061	-0.0217	-0.0043	0.0002	0.0097275
20	0.4939	0.50828	0.53	0.010804	0.4898	0.50527	0.5292	0.010914	-0.0083	-0.00301	0.0018	0.0038518
30	0.4967	0.5069	0.5189	0.0074273	0.4931	0.50116	0.5137	0.0073098	-0.0126	-0.00574	0.0016	0.0054085
50	0.4929	0.5062	0.5217	0.0093261	0.4807	0.49938	0.5145	0.010864	-0.0324	-0.00682	0.0024	0.010735

Device Test: 15.12 THRESHOLD|RISE/EN/14/////@EN_VTH_RISING

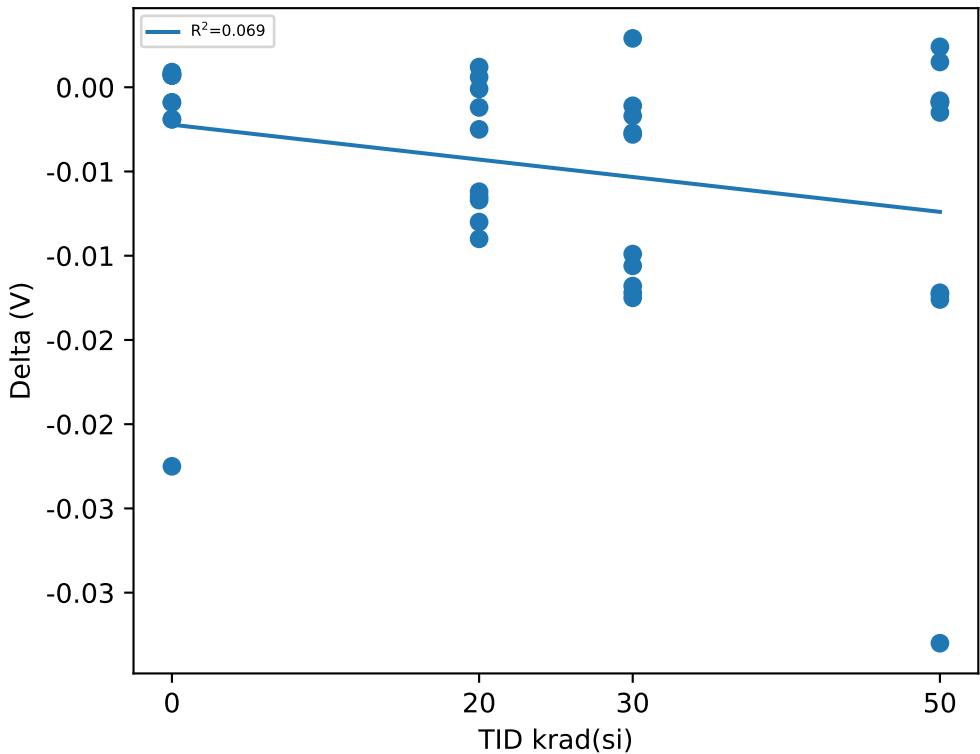
TID vs Result Stats



Test Results (Lower Limit = 0.555, Upper Limit = 0.655 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6119	0.5894	-0.0225
516	0	CORRELATION	0.6056	0.6063	0.0007
721	0	CORRELATION	0.6085	0.6094	0.0009
723	0	CORRELATION	0.6149	0.613	-0.0019
729	0	CORRELATION	0.6168	0.6176	0.0008
990	20	Unbiased	0.6205	0.6115	-0.009
991	20	Unbiased	0.6156	0.6094	-0.0062
992	20	Unbiased	0.6187	0.6107	-0.008
993	20	Unbiased	0.6088	0.6021	-0.0067
994	20	Unbiased	0.6009	0.5944	-0.0065
995	20	Biased	0.6347	0.6322	-0.0025
996	20	Biased	0.6181	0.618	-0.0001
997	20	Biased	0.5985	0.5997	0.0012
998	20	Biased	0.6134	0.6122	-0.0012
999	20	Biased	0.6056	0.6062	0.0006
1020	30	Unbiased	0.6184	0.6157	-0.0027
1021	30	Unbiased	0.6025	0.5997	-0.0028
1022	30	Unbiased	0.6106	0.6095	-0.0011
1023	30	Unbiased	0.6197	0.618	-0.0017
1024	30	Unbiased	0.6021	0.605	0.0029
1025	30	Biased	0.6106	0.6	-0.0106
1026	30	Biased	0.6235	0.6117	-0.0118
1027	30	Biased	0.609	0.5968	-0.0122
1028	30	Biased	0.6172	0.6047	-0.0125
1029	30	Biased	0.6087	0.5988	-0.0099
1030	50	Unbiased	0.6109	0.6094	-0.0015
1031	50	Unbiased	0.6215	0.6207	-0.0008
1032	50	Unbiased	0.6088	0.6112	0.0024
1033	50	Unbiased	0.6006	0.5997	-0.0009
1034	50	Unbiased	0.6094	0.6085	-0.0009
1035	50	Biased-84Hr-Anneal	0.6263	0.614	-0.0123
1036	50	Biased-84Hr-Anneal	0.5969	0.5847	-0.0122
1037	50	Biased-84Hr-Anneal	0.6113	0.5987	-0.0126
1038	50	Biased-84Hr-Anneal	0.6047	0.6062	0.0015
1039	50	Biased-84Hr-Anneal	0.6215	0.5885	-0.033

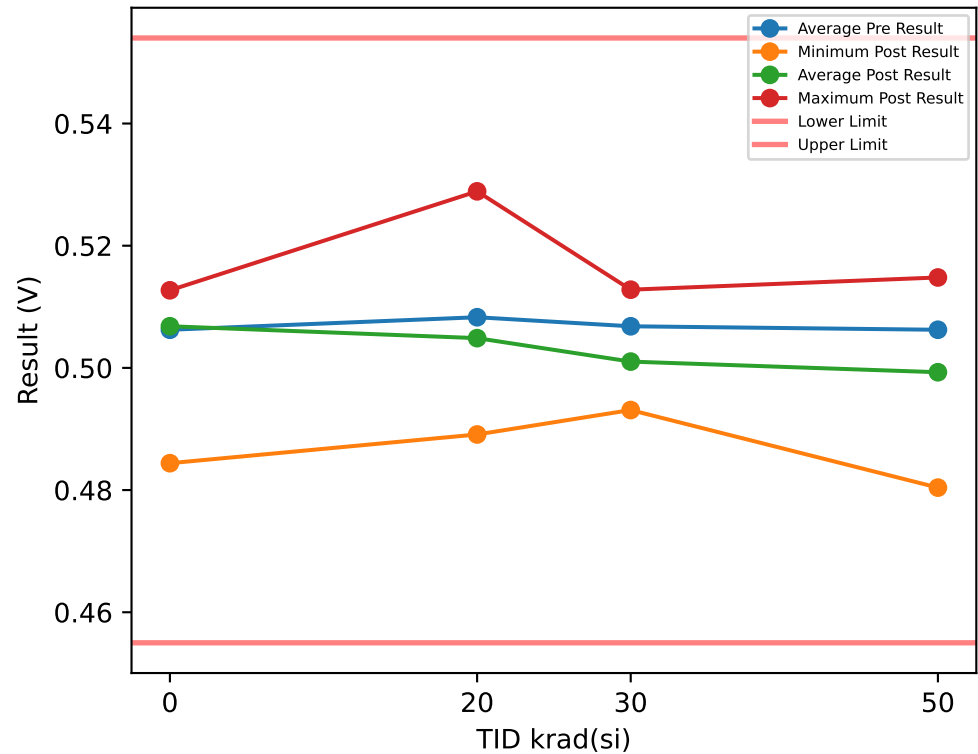
TID vs Post - Pre Exposure Delta



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	0.6056	0.61154	0.6168	0.004572	0.5894	0.60714	0.6176	0.010773	-0.0225	-0.0044	0.0009	0.010186
20	0.5985	0.61348	0.6347	0.010642	0.5944	0.60964	0.6322	0.010487	-0.009	-0.00384	0.0012	0.0038387
30	0.6021	0.61223	0.6235	0.0072348	0.5968	0.60599	0.618	0.0074363	-0.0125	-0.00624	0.0029	0.0057054
50	0.5969	0.61119	0.6263	0.0094774	0.5847	0.60416	0.6207	0.011275	-0.033	-0.00703	0.0024	0.010884

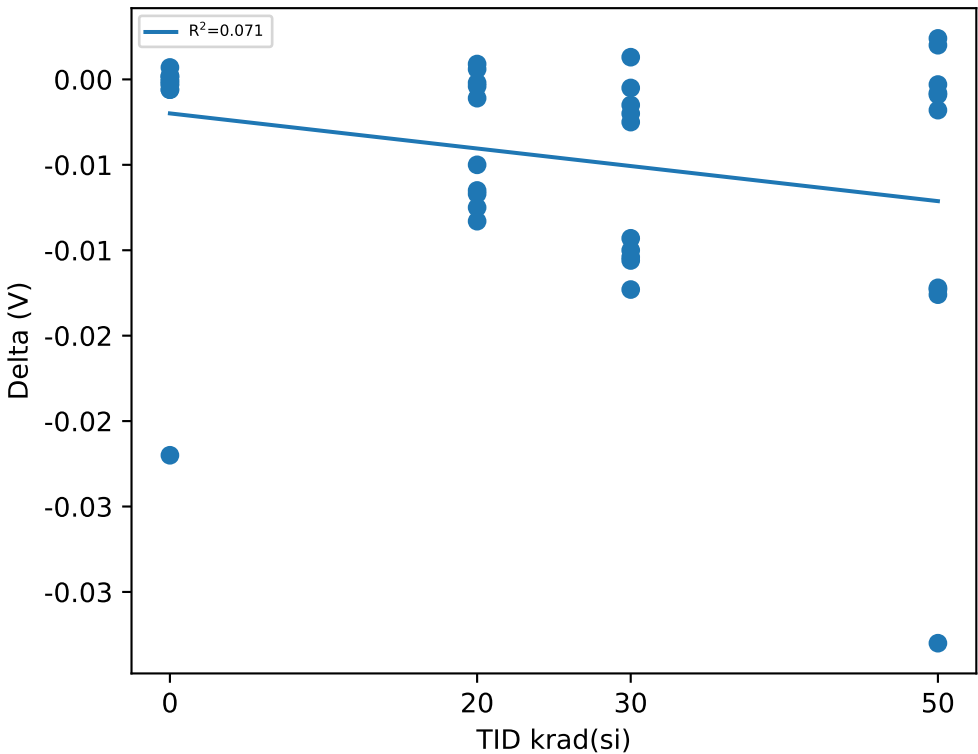
TID vs Result Stats



Test Results (Lower Limit = 0.455, Upper Limit = 0.554 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5064	0.4844	-0.022
516	0	CORRELATION	0.4997	0.4998	0.0001
721	0	CORRELATION	0.5029	0.5036	0.0007
723	0	CORRELATION	0.5097	0.5096	-0.0001
729	0	CORRELATION	0.5125	0.5127	0.0002
990	20	Unbiased	0.515	0.5075	-0.0075
991	20	Unbiased	0.5097	0.5047	-0.005
992	20	Unbiased	0.5141	0.5058	-0.0083
993	20	Unbiased	0.5033	0.4966	-0.0067
994	20	Unbiased	0.4956	0.4891	-0.0065
995	20	Biased	0.53	0.5289	-0.0011
996	20	Biased	0.5132	0.5128	-0.0004
997	20	Biased	0.4942	0.4951	0.0009
998	20	Biased	0.5078	0.5076	-0.0002
999	20	Biased	0.5	0.5006	0.0006
1020	30	Unbiased	0.5135	0.511	-0.0025
1021	30	Unbiased	0.4964	0.4949	-0.0015
1022	30	Unbiased	0.5047	0.5042	-0.0005
1023	30	Unbiased	0.5148	0.5128	-0.002
1024	30	Unbiased	0.4972	0.4985	0.0013
1025	30	Biased	0.5053	0.4949	-0.0104
1026	30	Biased	0.5189	0.5066	-0.0123
1027	30	Biased	0.5031	0.4931	-0.01
1028	30	Biased	0.511	0.5004	-0.0106
1029	30	Biased	0.5032	0.4939	-0.0093
1030	50	Unbiased	0.5047	0.5044	-0.0003
1031	50	Unbiased	0.5166	0.5148	-0.0018
1032	50	Unbiased	0.5036	0.5056	0.002
1033	50	Unbiased	0.4966	0.4957	-0.0009
1034	50	Unbiased	0.5047	0.5039	-0.0008
1035	50	Biased-84Hr-Anneal	0.5217	0.5091	-0.0126
1036	50	Biased-84Hr-Anneal	0.4926	0.4804	-0.0122
1037	50	Biased-84Hr-Anneal	0.5061	0.4938	-0.0123
1038	50	Biased-84Hr-Anneal	0.4995	0.5019	0.0024
1039	50	Biased-84Hr-Anneal	0.5163	0.4833	-0.033

TID vs Post - Pre Exposure Delta

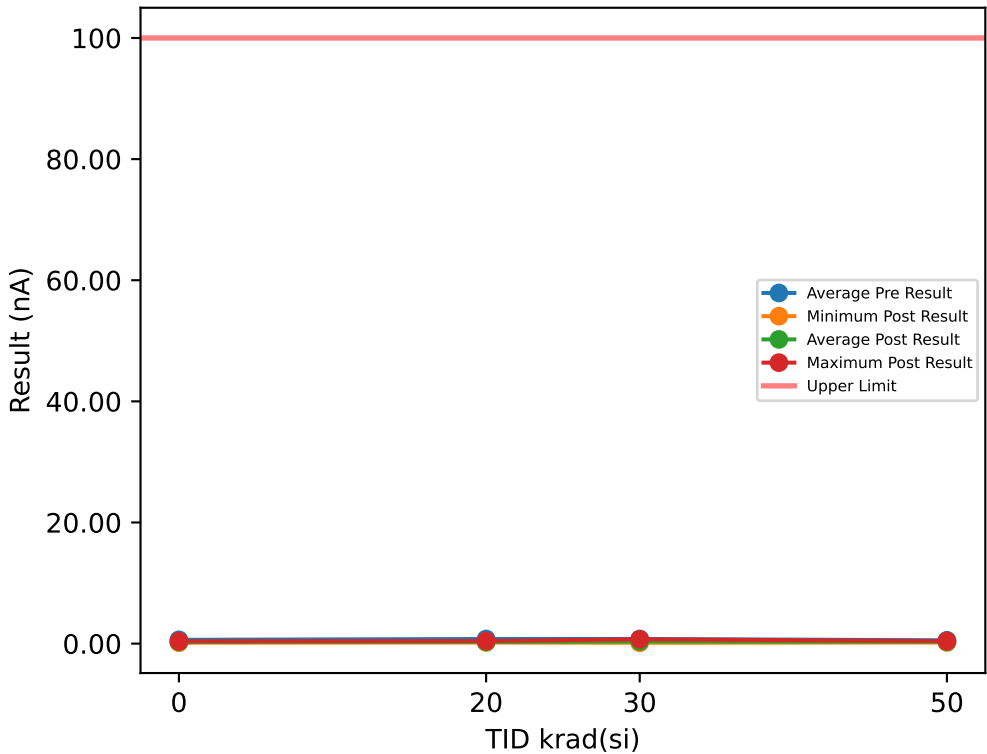


Test Statistics (V)

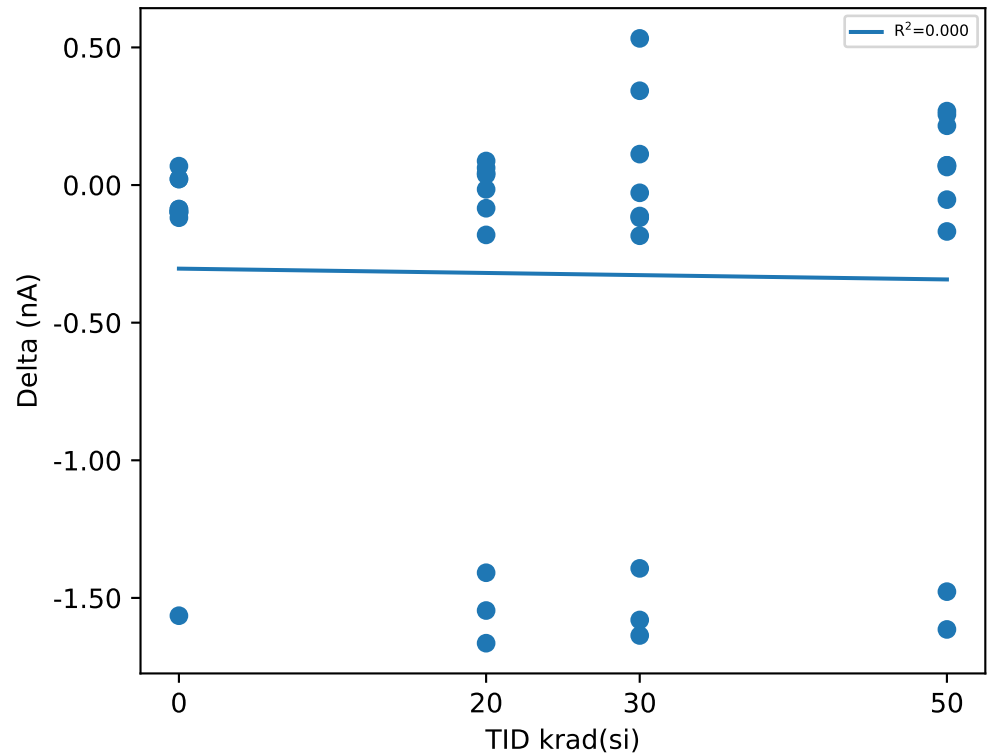
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4997	0.50624	0.5125	0.0051262	0.4844	0.50202	0.5127	0.011061	-0.022	-0.00422	0.0007	0.0099437
20	0.4942	0.50829	0.53	0.010696	0.4891	0.50487	0.5289	0.010987	-0.0083	-0.00342	0.0009	0.0036953
30	0.4964	0.50681	0.5189	0.0075024	0.4931	0.50103	0.5128	0.0072624	-0.0123	-0.00578	0.0013	0.0051495
50	0.4926	0.50624	0.5217	0.0093315	0.4804	0.49929	0.5148	0.010987	-0.033	-0.00695	0.0024	0.010951

Device Test: 15.15 LEAK|POWERED/EN/14/////@EN_LKG_CURR

TID vs Result Stats



TID vs Post - Pre Exposure Delta



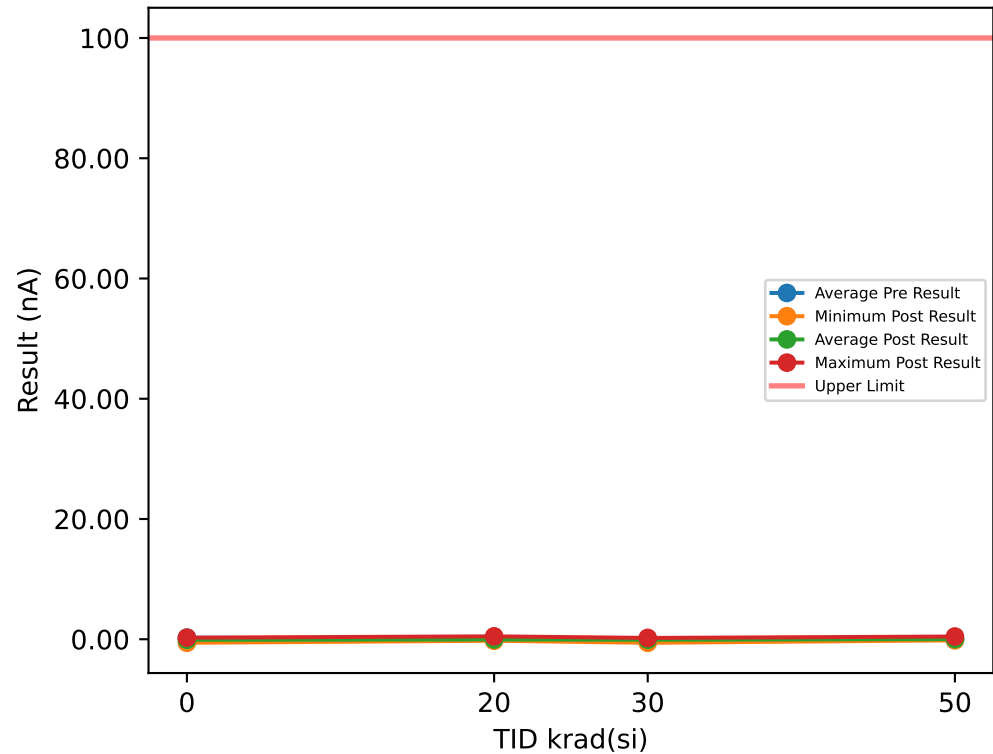
Test Results (Upper Limit = 100.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.181	0.2497	0.0687
516	0	CORRELATION	1.9548	0.3902	-1.5646
721	0	CORRELATION	0.2653	0.1466	-0.1187
723	0	CORRELATION	0.4464	0.3498	-0.0966
729	0	CORRELATION	0.2934	0.3153	0.0219
990	20	Unbiased	0.3684	0.4308	0.0624
991	20	Unbiased	1.8236	0.2778	-1.5458
992	20	Unbiased	0.2435	0.2279	-0.0156
993	20	Unbiased	0.1967	0.2841	0.0874
994	20	Unbiased	0.4277	0.3434	-0.0843
995	20	Biased	1.8424	0.1779	-1.6645
996	20	Biased	0.281	0.3184	0.0374
997	20	Biased	0.2185	0.2622	0.0437
998	20	Biased	0.3746	0.1935	-0.1811
999	20	Biased	1.8424	0.4339	-1.4085
1020	30	Unbiased	0.1623	0.5049	0.3426
1021	30	Unbiased	0.1748	0.1466	-0.0282
1022	30	Unbiased	1.7674	0.3747	-1.3927
1023	30	Unbiased	0.181	0.2934	0.1124
1024	30	Unbiased	0.4558	0.2716	-0.1842
1025	30	Biased	1.7706	0.1341	-1.6365
1026	30	Biased	0.128	0.6608	0.5328
1027	30	Biased	0.3871	0.2685	-0.1186
1028	30	Biased	1.8174	0.2373	-1.5801
1029	30	Biased	0.8242	0.7117	-0.1125
1030	50	Unbiased	1.8674	0.3902	-1.4772
1031	50	Unbiased	0.384	0.2154	-0.1686
1032	50	Unbiased	0.1561	0.3715	0.2154
1033	50	Unbiased	0.3902	0.3372	-0.053
1034	50	Unbiased	1.8112	0.1967	-1.6145
1035	50	Biased-84Hr-Anneal	0.1497	0.4058	0.2561
1036	50	Biased-84Hr-Anneal	0.1124	0.1842	0.0718
1037	50	Biased-84Hr-Anneal	0.1528	0.4214	0.2686
1038	50	Biased-84Hr-Anneal	0.2404	0.3059	0.0655
1039	50	Biased-84Hr-Anneal	0.2404	0.3121	0.0717

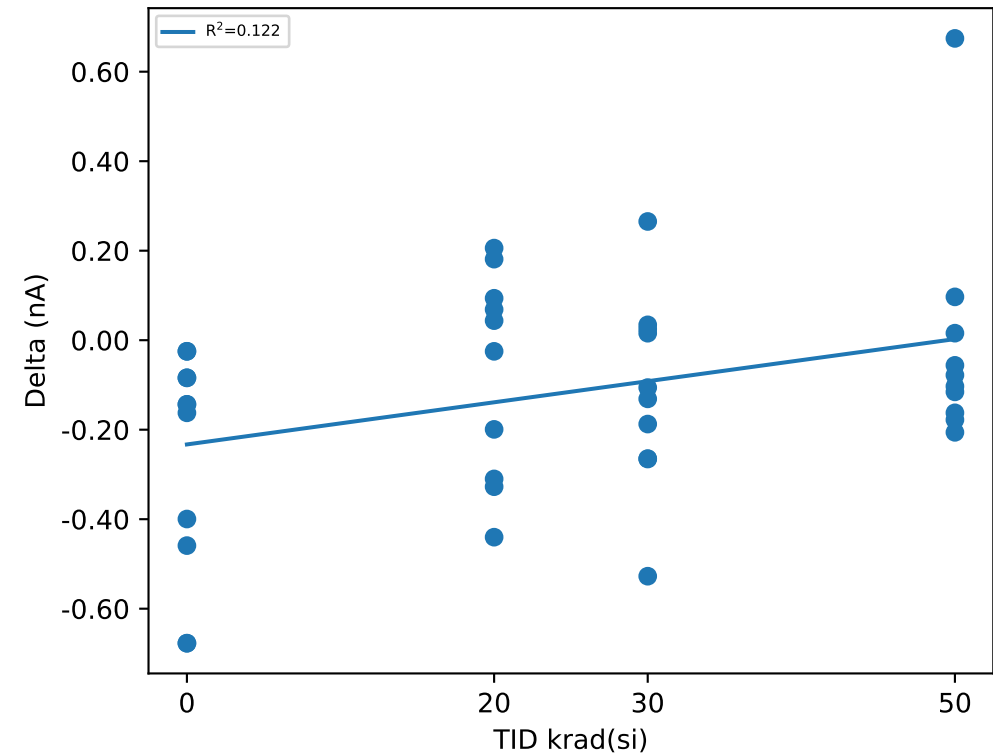
Test Statistics (nA)

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	0.181	0.62818	1.9548	0.74778	0.1466	0.29032	0.3902	0.095451	-1.5646	-0.33786	0.0687	0.69026
20	0.1967	0.76188	1.8424	0.74487	0.1779	0.29499	0.4339	0.088589	-1.6645	-0.46689	0.0874	0.74677
30	0.128	0.76686	1.8174	0.73211	0.1341	0.36036	0.7117	0.20211	-1.6365	-0.4065	0.5328	0.81222
50	0.1124	0.55046	1.8674	0.68602	0.1842	0.31404	0.4214	0.088199	-1.6145	-0.23642	0.2686	0.70394

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 100.0 (nA))

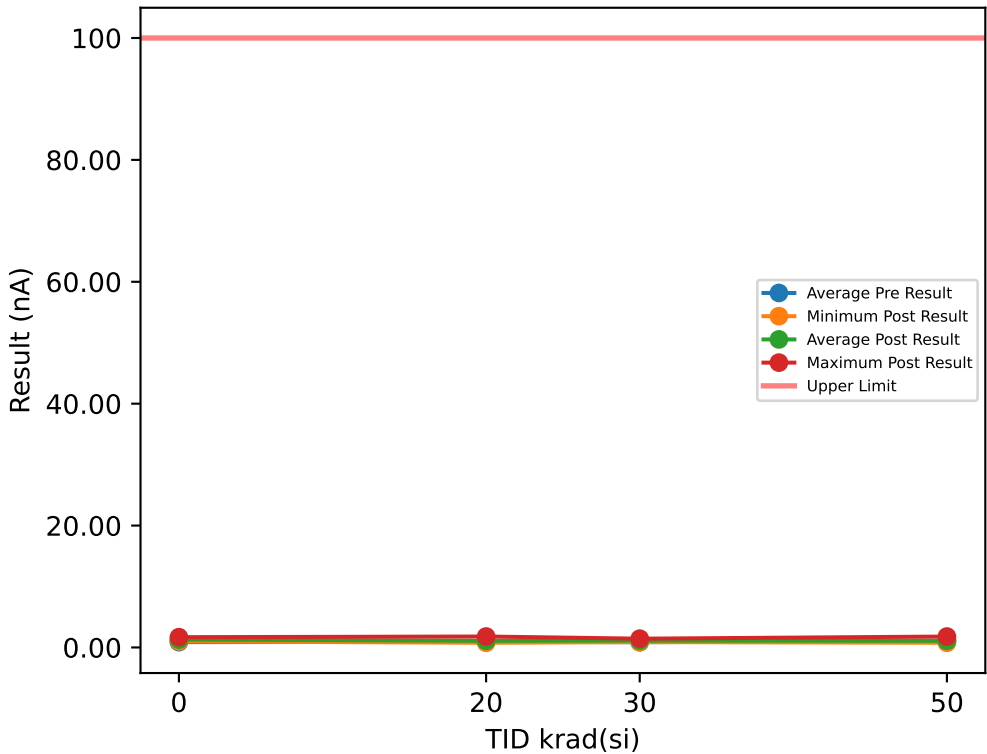
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.3216	-0.1374	-0.459
516	0	CORRELATION	0.4246	0.2623	-0.1623
721	0	CORRELATION	0.3528	-0.0468	-0.3996
723	0	CORRELATION	0.0872	-0.5899	-0.6771
729	0	CORRELATION	0.081	-0.0624	-0.1434
990	20	Unbiased	0.0685	-0.1308	-0.1993
991	20	Unbiased	-0.281	-0.2373	0.0437
992	20	Unbiased	-0.2186	-0.1249	0.0937
993	20	Unbiased	0.0062	-0.0187	-0.0249
994	20	Unbiased	0.7908	0.4808	-0.31
995	20	Biased	-0.0062	0.0624	0.0686
996	20	Biased	-0.2029	-0.0218	0.1811
997	20	Biased	0.1873	-0.2529	-0.4402
998	20	Biased	0.1245	-0.2029	-0.3274
999	20	Biased	-0.1155	0.0903	0.2058
1020	30	Unbiased	-0.0437	-0.0281	0.0156
1021	30	Unbiased	-0.0343	-0.0094	0.0249
1022	30	Unbiased	0.0937	-0.0937	-0.1874
1023	30	Unbiased	0.3278	0.0623	-0.2655
1024	30	Unbiased	0.2646	0	-0.2646
1025	30	Biased	-0.3902	-0.1249	0.2653
1026	30	Biased	-0.0656	-0.593	-0.5274
1027	30	Biased	0.3238	0.2179	-0.1059
1028	30	Biased	-0.0219	-0.153	-0.1311
1029	30	Biased	-0.2154	-0.1811	0.0343
1030	50	Unbiased	0.6119	0.4496	-0.1623
1031	50	Unbiased	-0.1905	-0.0937	0.0968
1032	50	Unbiased	0.1093	0.0062	-0.1031
1033	50	Unbiased	0.0592	-0.1467	-0.2059
1034	50	Unbiased	-0.5526	0.1218	0.6744
1035	50	Biased-84Hr-Anneal	-0.0375	-0.0218	0.0157
1036	50	Biased-84Hr-Anneal	-0.078	-0.1561	-0.0781
1037	50	Biased-84Hr-Anneal	0.128	0.0125	-0.1155
1038	50	Biased-84Hr-Anneal	-0.128	-0.1842	-0.0562
1039	50	Biased-84Hr-Anneal	0.3403	0.1624	-0.1779

Test Statistics (nA)

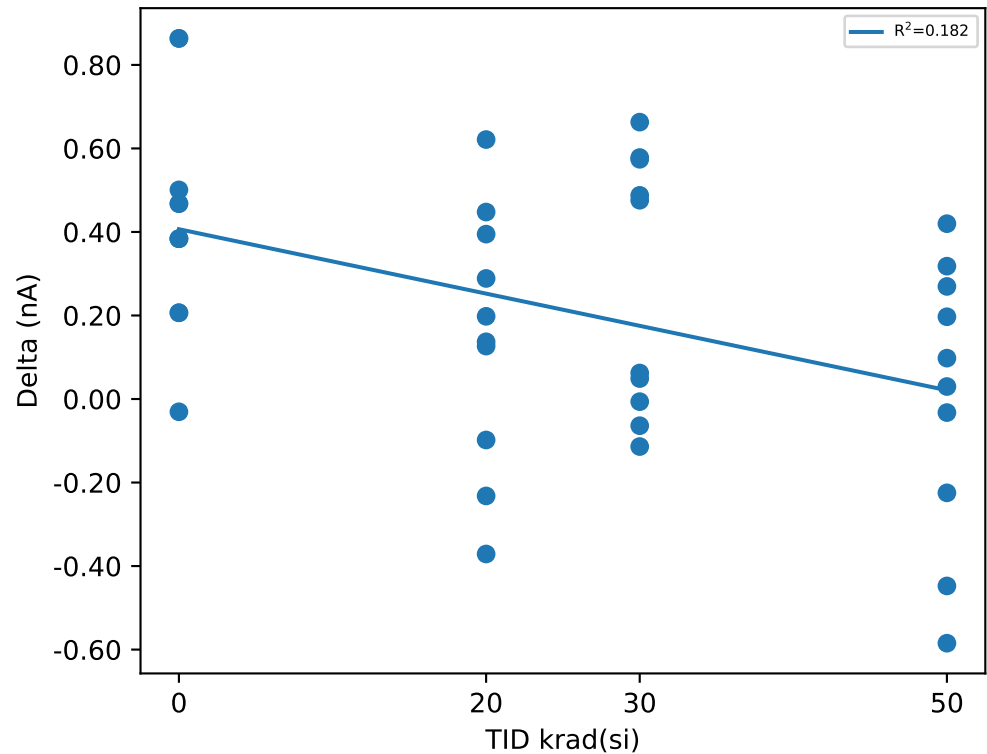
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.081	0.25344	0.4246	0.15905	-0.5899	-0.11484	0.2623	0.30651	-0.6771	-0.36828	-0.1434	0.22225
20	-0.281	0.03531	0.7908	0.30723	-0.2529	-0.03558	0.4808	0.21744	-0.4402	-0.07089	0.2058	0.23039
30	-0.3902	0.02388	0.3278	0.23379	-0.593	-0.0903	0.2179	0.21159	-0.5274	-0.11418	0.2653	0.21711
50	-0.5526	0.02621	0.6119	0.31282	-0.1842	0.015	0.4496	0.19159	-0.2059	-0.01121	0.6744	0.25751

Device Test: 15.2 LEAK|UNPOWERED/ILIM/0////@ILIM_LKG_CURR

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 100.0 (nA))

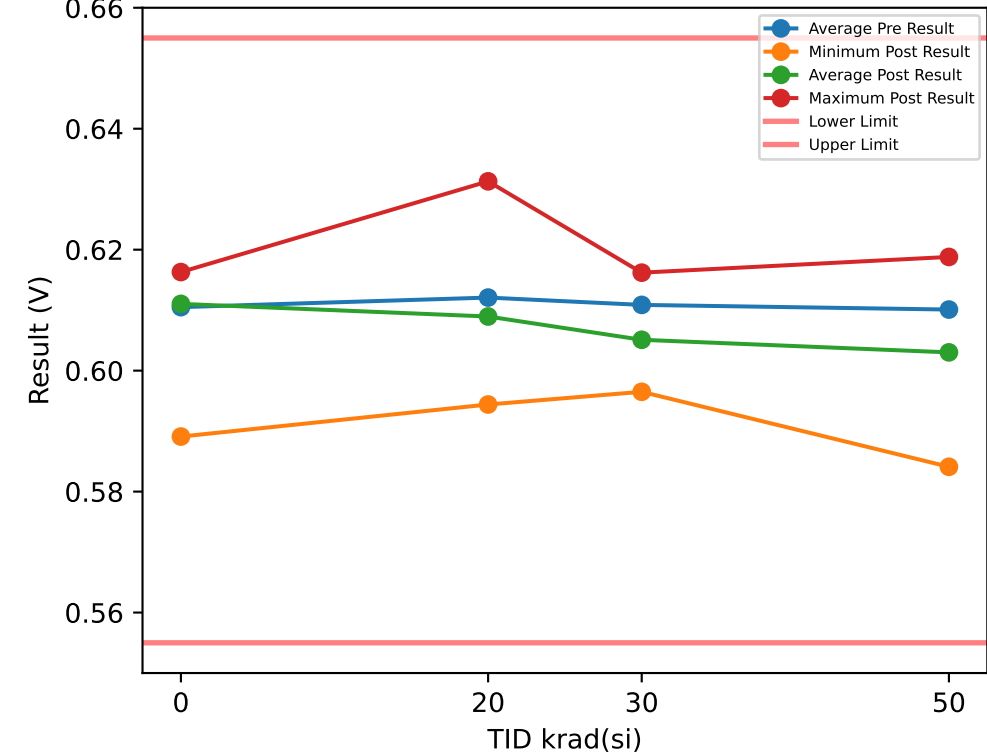
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.7445	1.2453	0.5008
516	0	CORRELATION	0.6164	1.0005	0.3841
721	0	CORRELATION	1.2721	1.2415	-0.0306
723	0	CORRELATION	0.8243	1.6878	0.8635
729	0	CORRELATION	0.8959	1.1024	0.2065
990	20	Unbiased	0.6593	0.7963	0.137
991	20	Unbiased	0.7475	1.1423	0.3948
992	20	Unbiased	1.083	1.2097	0.1267
993	20	Unbiased	0.9973	0.7652	-0.2321
994	20	Unbiased	1.5093	1.798	0.2887
995	20	Biased	0.6102	1.2315	0.6213
996	20	Biased	1.2141	0.843	-0.3711
997	20	Biased	0.9193	1.1173	0.198
998	20	Biased	0.7838	1.2315	0.4477
999	20	Biased	0.9629	0.8648	-0.0981
1020	30	Unbiased	1.0205	1.0142	-0.0063
1021	30	Unbiased	0.7507	1.2384	0.4877
1022	30	Unbiased	0.9816	1.0306	0.049
1023	30	Unbiased	0.9411	0.8772	-0.0639
1024	30	Unbiased	0.843	1.417	0.574
1025	30	Biased	0.5415	1.1197	0.5782
1026	30	Biased	0.7788	1.4418	0.663
1027	30	Biased	1.0111	1.0734	0.0623
1028	30	Biased	0.657	1.1329	0.4759
1029	30	Biased	1.0799	0.9661	-0.1138
1030	50	Unbiased	1.3719	1.7917	0.4198
1031	50	Unbiased	1.1985	1.2284	0.0299
1032	50	Unbiased	0.8444	0.8119	-0.0325
1033	50	Unbiased	0.8523	1.1704	0.3181
1034	50	Unbiased	1.0722	0.8475	-0.2247
1035	50	Biased-84Hr-Anneal	1.3499	0.7652	-0.5847
1036	50	Biased-84Hr-Anneal	1.035	1.1329	0.0979
1037	50	Biased-84Hr-Anneal	1.3093	0.8617	-0.4476
1038	50	Biased-84Hr-Anneal	0.8883	1.1579	0.2696
1039	50	Biased-84Hr-Anneal	1.047	1.244	0.197

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	0.6164	0.87064	1.2721	0.24724	1.0005	1.2555	1.6878	0.26251	-0.0306	0.38486	0.8635	0.33427
20	0.6102	0.94867	1.5093	0.27329	0.7652	1.1	1.798	0.30941	-0.3711	0.15129	0.6213	0.31127
30	0.5415	0.86052	1.0799	0.17632	0.8772	1.1311	1.4418	0.1852	-0.1138	0.27061	0.663	0.3089
50	0.8444	1.0969	1.3719	0.20251	0.7652	1.1012	1.7917	0.30563	-0.5847	0.00428	0.4198	0.33216

Device Test: 15.3 THRESHOLD|RISE/EN/4.5/////@EN_VTH_RISING

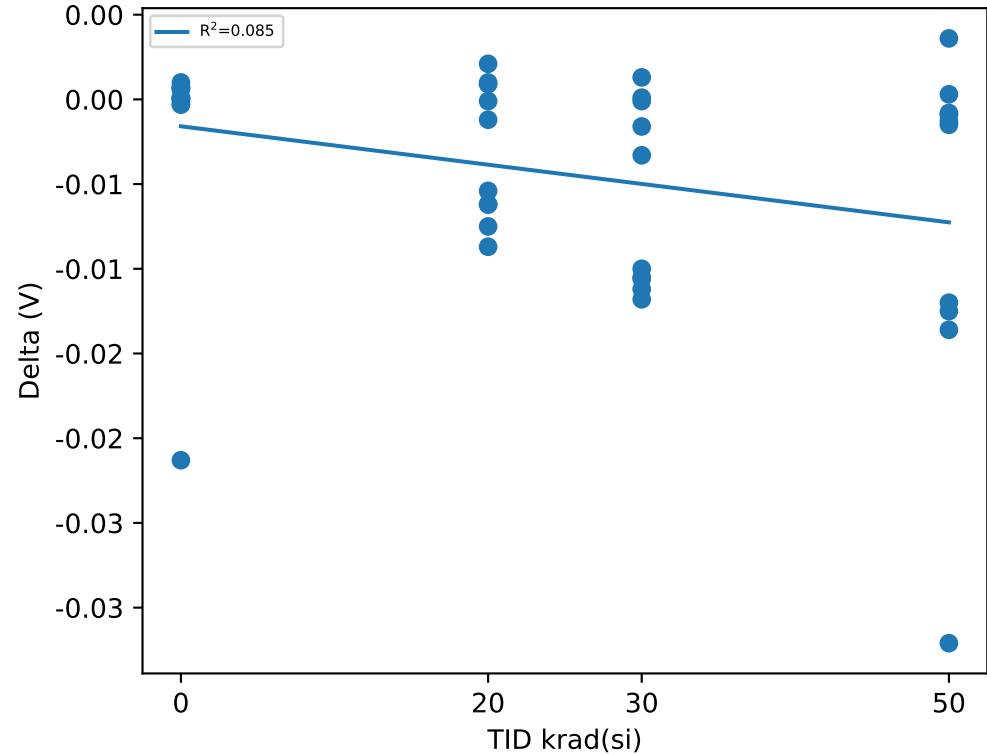
TID vs Result Stats



Test Results (Lower Limit = 0.555, Upper Limit = 0.655 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6104	0.5891	-0.0213
516	0	CORRELATION	0.6047	0.6057	0.001
721	0	CORRELATION	0.6082	0.6088	0.0006
723	0	CORRELATION	0.613	0.6127	-0.0003
729	0	CORRELATION	0.6162	0.6163	0.0001
990	20	Unbiased	0.619	0.6115	-0.0075
991	20	Unbiased	0.614	0.6078	-0.0062
992	20	Unbiased	0.6178	0.6091	-0.0087
993	20	Unbiased	0.6066	0.6012	-0.0054
994	20	Unbiased	0.6006	0.5944	-0.0062
995	20	Biased	0.6325	0.6313	-0.0012
996	20	Biased	0.6156	0.6155	-0.0001
997	20	Biased	0.5985	0.6006	0.0021
998	20	Biased	0.6112	0.6122	0.001
999	20	Biased	0.605	0.6059	0.0009
1020	30	Unbiased	0.6175	0.6142	-0.0033
1021	30	Unbiased	0.601	0.5994	-0.0016
1022	30	Unbiased	0.6091	0.6092	0.0001
1023	30	Unbiased	0.6163	0.6162	-0.0001
1024	30	Unbiased	0.6015	0.6028	0.0013
1025	30	Biased	0.61	0.6	-0.01
1026	30	Biased	0.6219	0.6101	-0.0118
1027	30	Biased	0.6077	0.5965	-0.0112
1028	30	Biased	0.615	0.6044	-0.0106
1029	30	Biased	0.6087	0.5982	-0.0105
1030	50	Unbiased	0.61	0.6087	-0.0013
1031	50	Unbiased	0.6203	0.6188	-0.0015
1032	50	Unbiased	0.6066	0.6102	0.0036
1033	50	Unbiased	0.6002	0.5994	-0.0008
1034	50	Unbiased	0.6078	0.6069	-0.0009
1035	50	Biased-84Hr-Anneal	0.6247	0.6127	-0.012
1036	50	Biased-84Hr-Anneal	0.5966	0.5841	-0.0125
1037	50	Biased-84Hr-Anneal	0.611	0.5974	-0.0136
1038	50	Biased-84Hr-Anneal	0.6041	0.6044	0.0003
1039	50	Biased-84Hr-Anneal	0.6197	0.5876	-0.0321

TID vs Post - Pre Exposure Delta

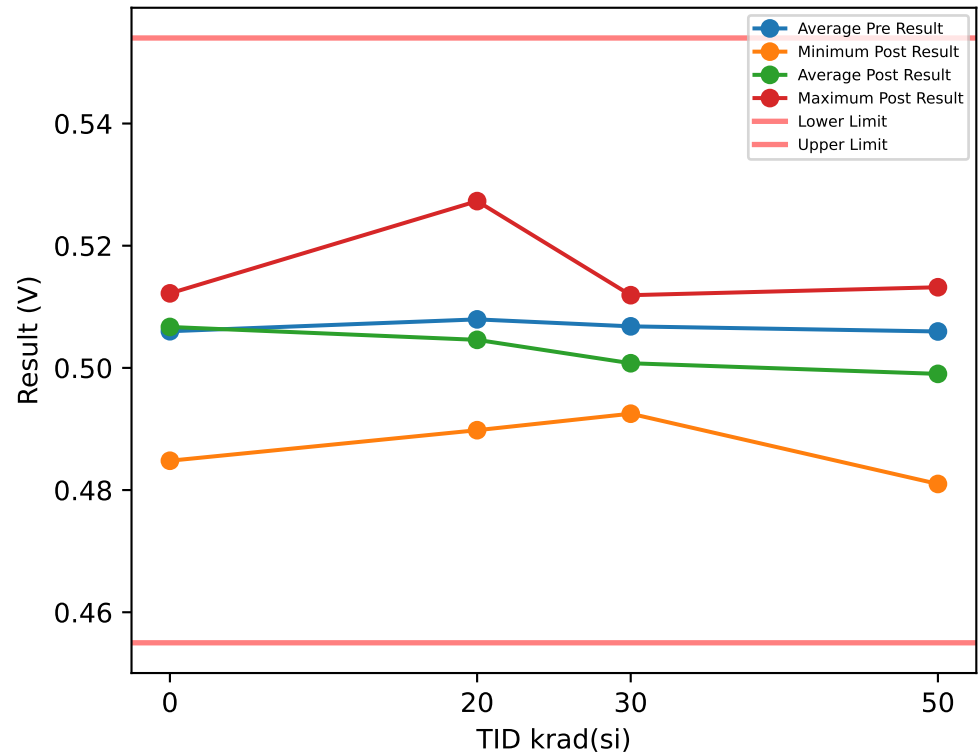


Test Statistics (V)

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	0.6047	0.6105	0.6162	0.0044068	0.5891	0.60652	0.6163	0.010526	-0.0213	-0.00398	0.001	0.0096947
20	0.5985	0.61208	0.6325	0.01006	0.5944	0.60895	0.6313	0.010064	-0.0087	-0.00313	0.0021	0.0040508
30	0.601	0.61087	0.6219	0.0067989	0.5965	0.6051	0.6162	0.0069417	-0.0118	-0.00577	0.0013	0.0054724
50	0.5966	0.6101	0.6247	0.009092	0.5841	0.60302	0.6188	0.010974	-0.0321	-0.00708	0.0036	0.010712

Device Test: 15.4 THRESHOLD|FALL/EN/4.5/////@EN_VTH_FALLING

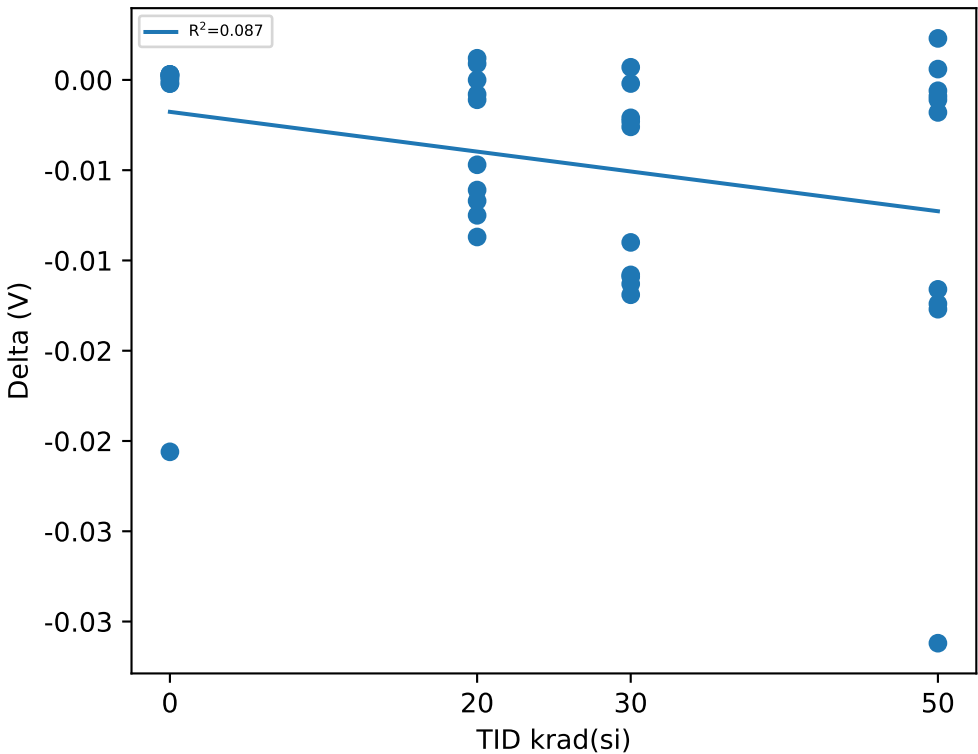
TID vs Result Stats



Test Results (Lower Limit = 0.455, Upper Limit = 0.554 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5054	0.4848	-0.0206
516	0	CORRELATION	0.5	0.5001	0.0001
721	0	CORRELATION	0.5036	0.5036	0
723	0	CORRELATION	0.5091	0.5093	0.0002
729	0	CORRELATION	0.5119	0.5117	-0.0002
990	20	Unbiased	0.5144	0.5069	-0.0075
991	20	Unbiased	0.5094	0.5047	-0.0047
992	20	Unbiased	0.5135	0.5048	-0.0087
993	20	Unbiased	0.5033	0.4966	-0.0067
994	20	Unbiased	0.4959	0.4898	-0.0061
995	20	Biased	0.5281	0.5273	-0.0008
996	20	Biased	0.5116	0.5116	0
997	20	Biased	0.4951	0.496	0.0009
998	20	Biased	0.5084	0.5073	-0.0011
999	20	Biased	0.4997	0.5009	0.0012
1020	30	Unbiased	0.5129	0.5103	-0.0026
1021	30	Unbiased	0.4976	0.4955	-0.0021
1022	30	Unbiased	0.5047	0.5045	-0.0002
1023	30	Unbiased	0.5142	0.5119	-0.0023
1024	30	Unbiased	0.4978	0.4985	0.0007
1025	30	Biased	0.5053	0.4945	-0.0108
1026	30	Biased	0.5179	0.506	-0.0119
1027	30	Biased	0.5034	0.4925	-0.0109
1028	30	Biased	0.511	0.4997	-0.0113
1029	30	Biased	0.5032	0.4942	-0.009
1030	50	Unbiased	0.505	0.5044	-0.0006
1031	50	Unbiased	0.515	0.5132	-0.0018
1032	50	Unbiased	0.5033	0.5056	0.0023
1033	50	Unbiased	0.4966	0.4957	-0.0009
1034	50	Unbiased	0.5044	0.5033	-0.0011
1035	50	Biased-84Hr-Anneal	0.5208	0.5084	-0.0124
1036	50	Biased-84Hr-Anneal	0.4926	0.481	-0.0116
1037	50	Biased-84Hr-Anneal	0.5061	0.4934	-0.0127
1038	50	Biased-84Hr-Anneal	0.5004	0.501	0.0006
1039	50	Biased-84Hr-Anneal	0.5154	0.4842	-0.0312

TID vs Post - Pre Exposure Delta

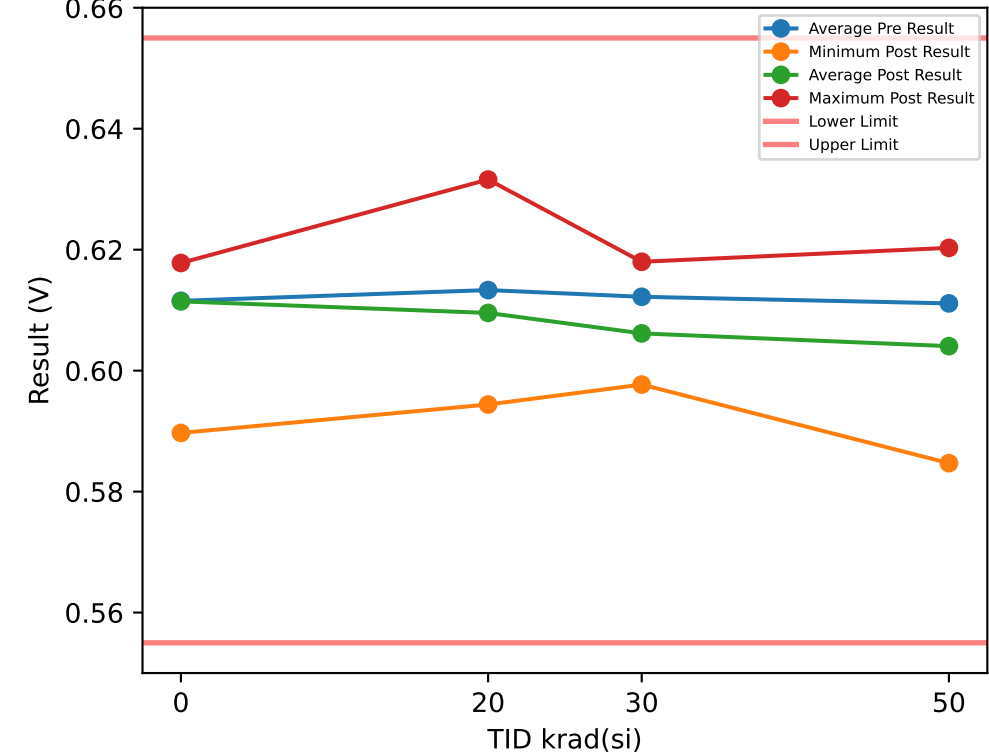


Test Statistics (V)

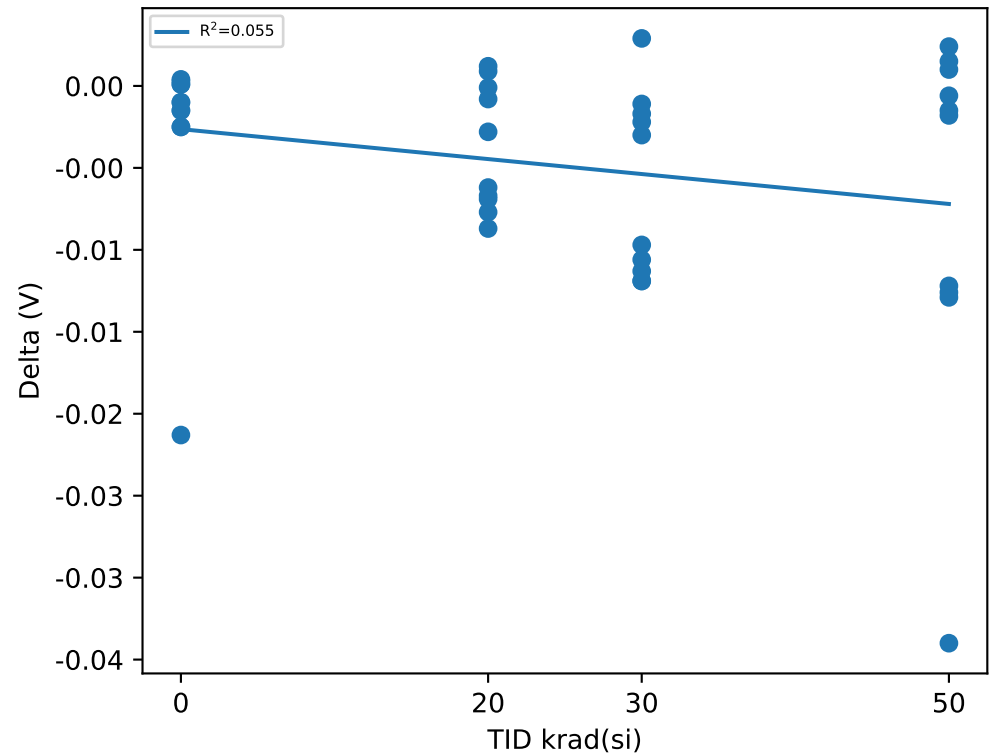
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5	0.506	0.5119	0.0046513	0.4848	0.5019	0.5117	0.010599	-0.0206	-0.0041	0.0002	0.009225
20	0.4951	0.50794	0.5281	0.009967	0.4898	0.50459	0.5273	0.010261	-0.0087	-0.00335	0.0012	0.0037713
30	0.4976	0.5068	0.5179	0.0069093	0.4925	0.50076	0.5119	0.0069992	-0.0119	-0.00604	0.0007	0.0051416
50	0.4926	0.50596	0.5208	0.0088099	0.481	0.49902	0.5132	0.010384	-0.0312	-0.00694	0.0023	0.010289

Device Test: 15.6 THRESHOLD|RISE/EN/5////@EN_VTH_RISING

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.555, Upper Limit = 0.655 (V))

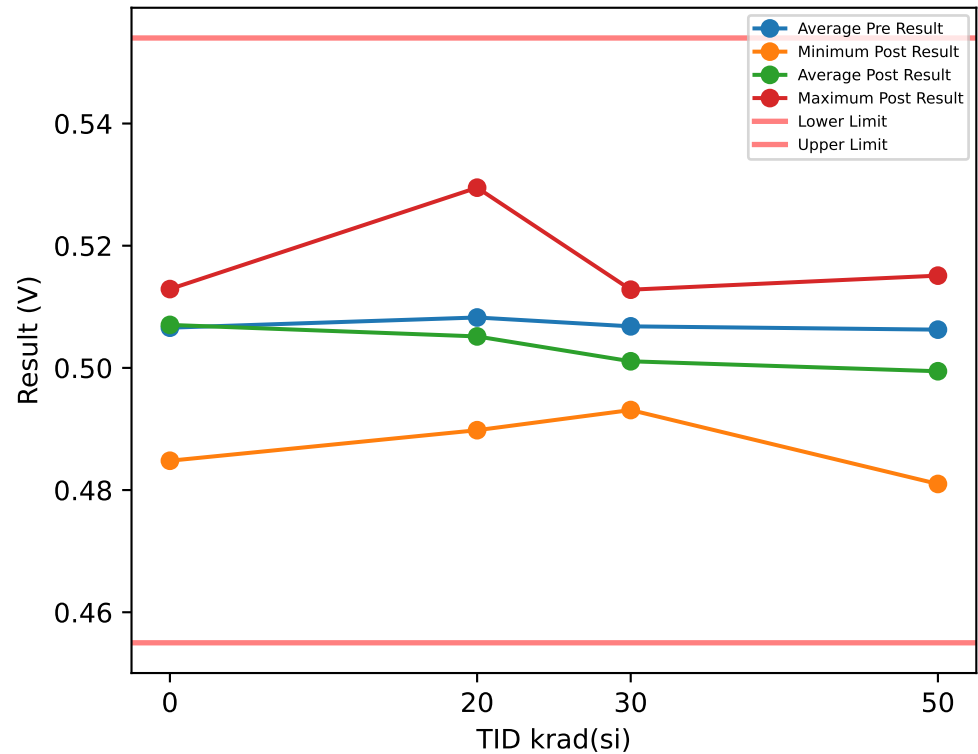
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.611	0.5897	-0.0213
516	0	CORRELATION	0.6056	0.606	0.0004
721	0	CORRELATION	0.6082	0.6085	0.0003
723	0	CORRELATION	0.6152	0.6127	-0.0025
729	0	CORRELATION	0.6177	0.6167	-0.001
990	20	Unbiased	0.6205	0.6118	-0.0087
991	20	Unbiased	0.6159	0.609	-0.0069
992	20	Unbiased	0.6187	0.611	-0.0077
993	20	Unbiased	0.6085	0.6018	-0.0067
994	20	Unbiased	0.6006	0.5944	-0.0062
995	20	Biased	0.6344	0.6316	-0.0028
996	20	Biased	0.6181	0.618	-0.0001
997	20	Biased	0.5988	0.5997	0.0009
998	20	Biased	0.6127	0.6119	-0.0008
999	20	Biased	0.605	0.6062	0.0012
1020	30	Unbiased	0.6184	0.6154	-0.003
1021	30	Unbiased	0.6025	0.6003	-0.0022
1022	30	Unbiased	0.6103	0.6092	-0.0011
1023	30	Unbiased	0.6197	0.618	-0.0017
1024	30	Unbiased	0.6021	0.605	0.0029
1025	30	Biased	0.6106	0.6	-0.0106
1026	30	Biased	0.6232	0.6113	-0.0119
1027	30	Biased	0.609	0.5977	-0.0113
1028	30	Biased	0.6169	0.605	-0.0119
1029	30	Biased	0.6094	0.5997	-0.0097
1030	50	Unbiased	0.6103	0.6097	-0.0006
1031	50	Unbiased	0.6218	0.6203	-0.0015
1032	50	Unbiased	0.6088	0.6112	0.0024
1033	50	Unbiased	0.6012	0.5994	-0.0018
1034	50	Unbiased	0.6081	0.6091	0.001
1035	50	Biased-84Hr-Anneal	0.6269	0.614	-0.0129
1036	50	Biased-84Hr-Anneal	0.5969	0.5847	-0.0122
1037	50	Biased-84Hr-Anneal	0.6113	0.5987	-0.0126
1038	50	Biased-84Hr-Anneal	0.6047	0.6062	0.0015
1039	50	Biased-84Hr-Anneal	0.6212	0.5872	-0.034

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	0.6056	0.61154	0.6177	0.0049516	0.5897	0.60672	0.6167	0.010353	-0.0213	-0.00482	0.0004	0.0092875
20	0.5988	0.61332	0.6344	0.010645	0.5944	0.60954	0.6316	0.010373	-0.0087	-0.00378	0.0012	0.0038554
30	0.6021	0.61221	0.6232	0.0071346	0.5977	0.60616	0.618	0.0070672	-0.0119	-0.00605	0.0029	0.0055546
50	0.5969	0.61112	0.6269	0.0095552	0.5847	0.60405	0.6203	0.011474	-0.034	-0.00707	0.0024	0.011279

Device Test: 15.7 THRESHOLD|FALL/EN/5////@EN_VTH_FALLING

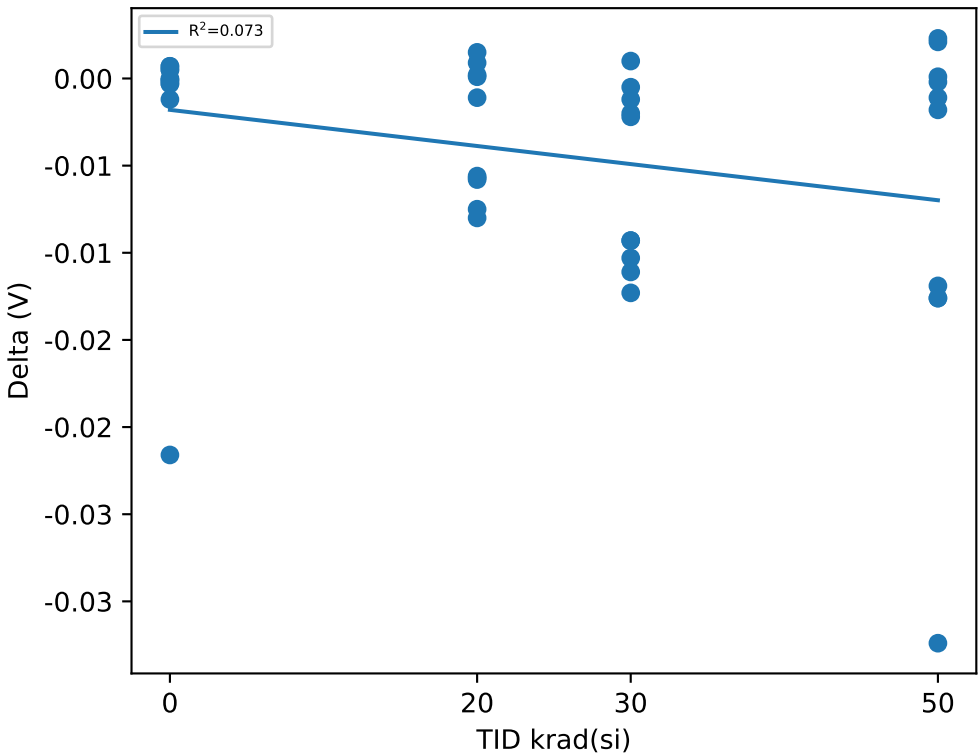
TID vs Result Stats



Test Results (Lower Limit = 0.455, Upper Limit = 0.554 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5064	0.4848	-0.0216
516	0	CORRELATION	0.501	0.4998	-0.0012
721	0	CORRELATION	0.5036	0.5036	0
723	0	CORRELATION	0.5097	0.5096	-0.0001
729	0	CORRELATION	0.5122	0.5127	0.0005
990	20	Unbiased	0.515	0.5075	-0.0075
991	20	Unbiased	0.51	0.5044	-0.0056
992	20	Unbiased	0.5141	0.5061	-0.008
993	20	Unbiased	0.5029	0.4972	-0.0057
994	20	Unbiased	0.4956	0.4898	-0.0058
995	20	Biased	0.5294	0.5295	0.0001
996	20	Biased	0.5129	0.5131	0.0002
997	20	Biased	0.4939	0.4954	0.0015
998	20	Biased	0.5084	0.5073	-0.0011
999	20	Biased	0.5003	0.5012	0.0009
1020	30	Unbiased	0.5132	0.511	-0.0022
1021	30	Unbiased	0.4964	0.4952	-0.0012
1022	30	Unbiased	0.5044	0.5039	-0.0005
1023	30	Unbiased	0.5148	0.5128	-0.002
1024	30	Unbiased	0.4975	0.4985	0.001
1025	30	Biased	0.5056	0.4945	-0.0111
1026	30	Biased	0.5186	0.5063	-0.0123
1027	30	Biased	0.5034	0.4931	-0.0103
1028	30	Biased	0.5106	0.5013	-0.0093
1029	30	Biased	0.5035	0.4942	-0.0093
1030	50	Unbiased	0.505	0.5051	0.0001
1031	50	Unbiased	0.5169	0.5151	-0.0018
1032	50	Unbiased	0.5033	0.5056	0.0023
1033	50	Unbiased	0.4959	0.4957	-0.0002
1034	50	Unbiased	0.5047	0.5036	-0.0011
1035	50	Biased-84Hr-Anneal	0.522	0.5094	-0.0126
1036	50	Biased-84Hr-Anneal	0.4929	0.481	-0.0119
1037	50	Biased-84Hr-Anneal	0.5064	0.4938	-0.0126
1038	50	Biased-84Hr-Anneal	0.4995	0.5016	0.0021
1039	50	Biased-84Hr-Anneal	0.516	0.4836	-0.0324

TID vs Post - Pre Exposure Delta

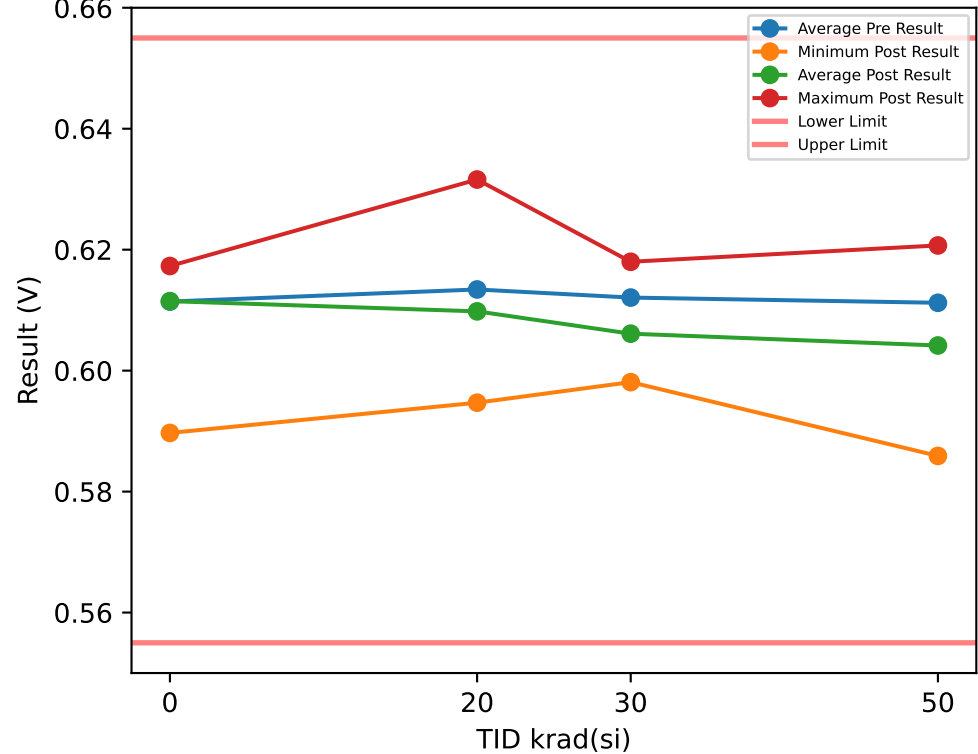


Test Statistics (V)

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	0.501	0.50658	0.5122	0.0045102	0.4848	0.5021	0.5127	0.010902	-0.0216	-0.00448	0.0005	0.0095905
20	0.4939	0.50825	0.5294	0.010591	0.4898	0.50515	0.5295	0.01094	-0.008	-0.0031	0.0015	0.0037411
30	0.4964	0.5068	0.5186	0.0073253	0.4931	0.50108	0.5128	0.0072	-0.0123	-0.00572	0.001	0.0051415
50	0.4929	0.50626	0.522	0.0094289	0.481	0.49945	0.5151	0.01092	-0.0324	-0.00681	0.0023	0.010849

Device Test: 15.9 THRESHOLD|RISE/EN/12////@EN_VTH_RISING

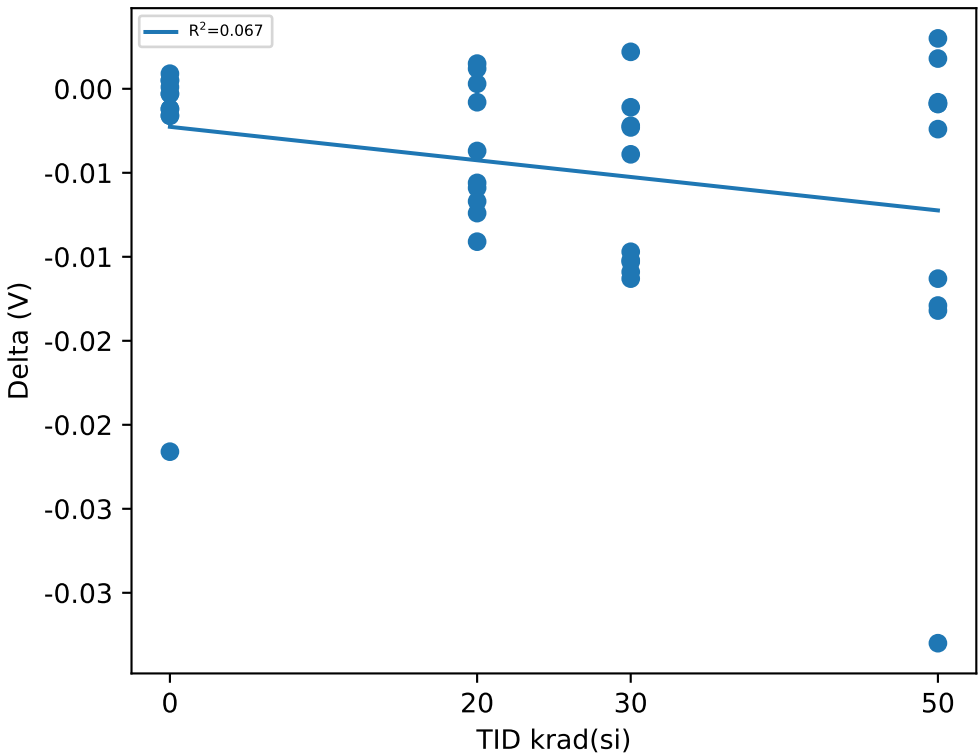
TID vs Result Stats



Test Results (Lower Limit = 0.555, Upper Limit = 0.655 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6113	0.5897	-0.0216
516	0	CORRELATION	0.6056	0.6057	0.0001
721	0	CORRELATION	0.6085	0.6094	0.0009
723	0	CORRELATION	0.6149	0.6133	-0.0016
729	0	CORRELATION	0.6168	0.6173	0.0005
990	20	Unbiased	0.6209	0.6118	-0.0091
991	20	Unbiased	0.615	0.6094	-0.0056
992	20	Unbiased	0.6184	0.611	-0.0074
993	20	Unbiased	0.6085	0.6018	-0.0067
994	20	Unbiased	0.6006	0.5947	-0.0059
995	20	Biased	0.6353	0.6316	-0.0037
996	20	Biased	0.6181	0.6184	0.0003
997	20	Biased	0.5994	0.6009	0.0015
998	20	Biased	0.613	0.6122	-0.0008
999	20	Biased	0.605	0.6062	0.0012
1020	30	Unbiased	0.6181	0.6142	-0.0039
1021	30	Unbiased	0.6025	0.6003	-0.0022
1022	30	Unbiased	0.6106	0.6095	-0.0011
1023	30	Unbiased	0.6203	0.618	-0.0023
1024	30	Unbiased	0.6018	0.604	0.0022
1025	30	Biased	0.6103	0.6	-0.0103
1026	30	Biased	0.6219	0.6117	-0.0102
1027	30	Biased	0.609	0.5981	-0.0109
1028	30	Biased	0.6169	0.6056	-0.0113
1029	30	Biased	0.6094	0.5997	-0.0097
1030	50	Unbiased	0.6103	0.6094	-0.0009
1031	50	Unbiased	0.6215	0.6207	-0.0008
1032	50	Unbiased	0.6085	0.6115	0.003
1033	50	Unbiased	0.6018	0.5994	-0.0024
1034	50	Unbiased	0.6094	0.6085	-0.0009
1035	50	Biased-84Hr-Anneal	0.6272	0.614	-0.0132
1036	50	Biased-84Hr-Anneal	0.5972	0.5859	-0.0113
1037	50	Biased-84Hr-Anneal	0.611	0.5981	-0.0129
1038	50	Biased-84Hr-Anneal	0.6044	0.6062	0.0018
1039	50	Biased-84Hr-Anneal	0.6209	0.5879	-0.033

TID vs Post - Pre Exposure Delta

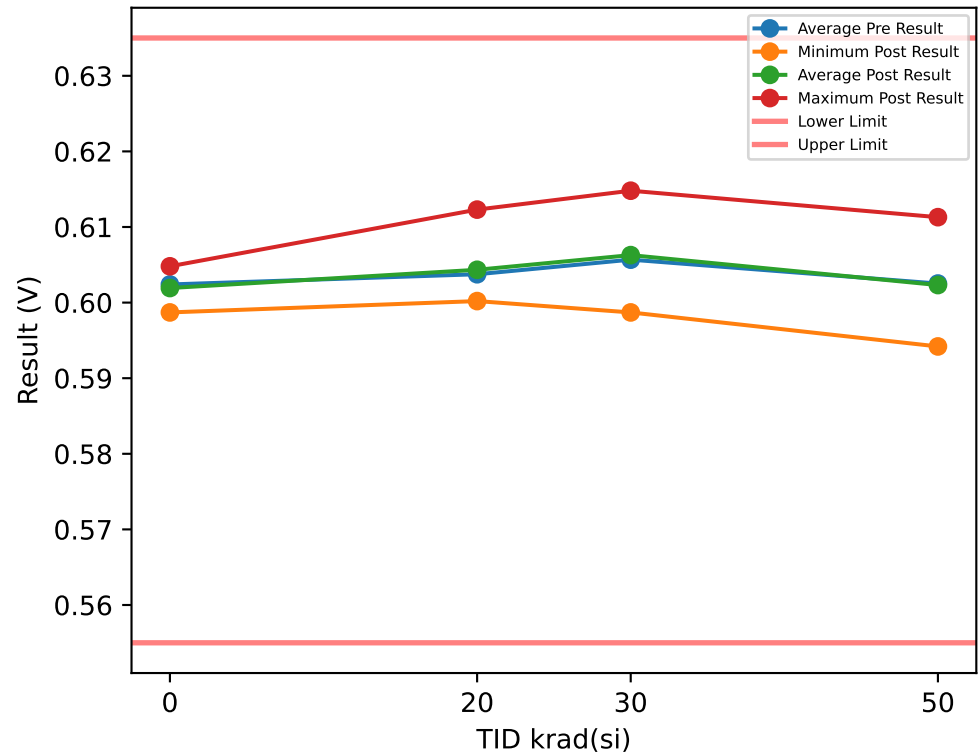


Test Statistics (V)

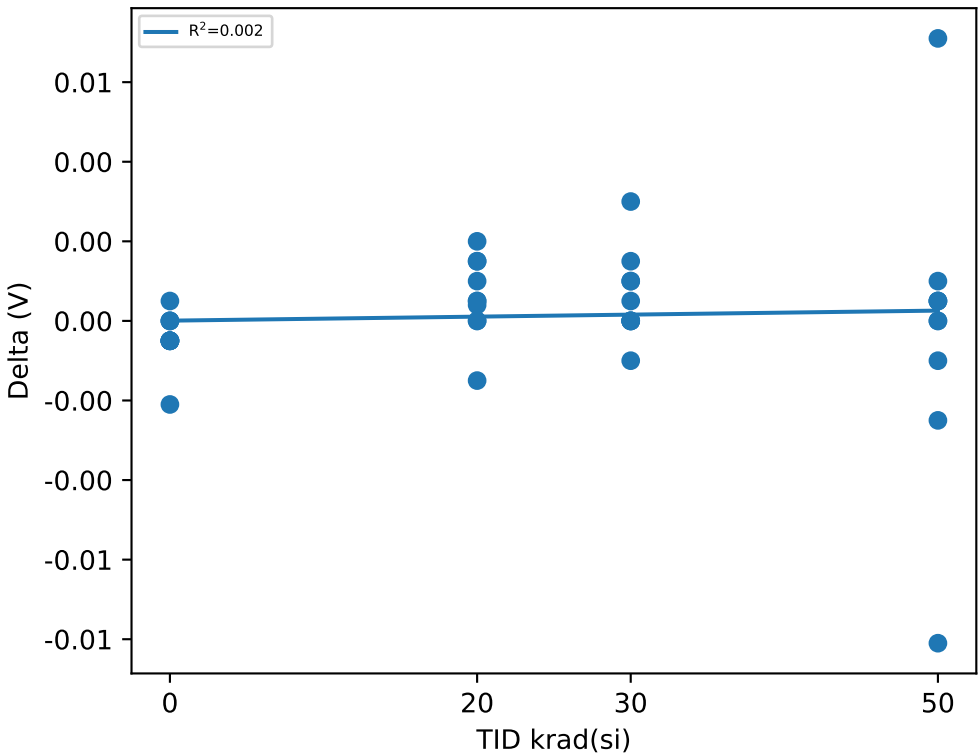
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6056	0.61142	0.6168	0.004568	0.5897	0.60708	0.6173	0.010636	-0.0216	-0.00434	0.0009	0.0096955
20	0.5994	0.61342	0.6353	0.01075	0.5947	0.6098	0.6316	0.010246	-0.0091	-0.00362	0.0015	0.003883
30	0.6018	0.61208	0.6219	0.0070155	0.5981	0.60611	0.618	0.006917	-0.0113	-0.00597	0.0022	0.0050078
50	0.5972	0.61122	0.6272	0.0094172	0.5859	0.60416	0.6207	0.011215	-0.033	-0.00706	0.003	0.01095

Device Test: 16.1 THRESHOLD|RISE/FAULT/4.5/////@FAULT_VTH_RISING

TID vs Result Stats



TID vs Post - Pre Exposure Delta



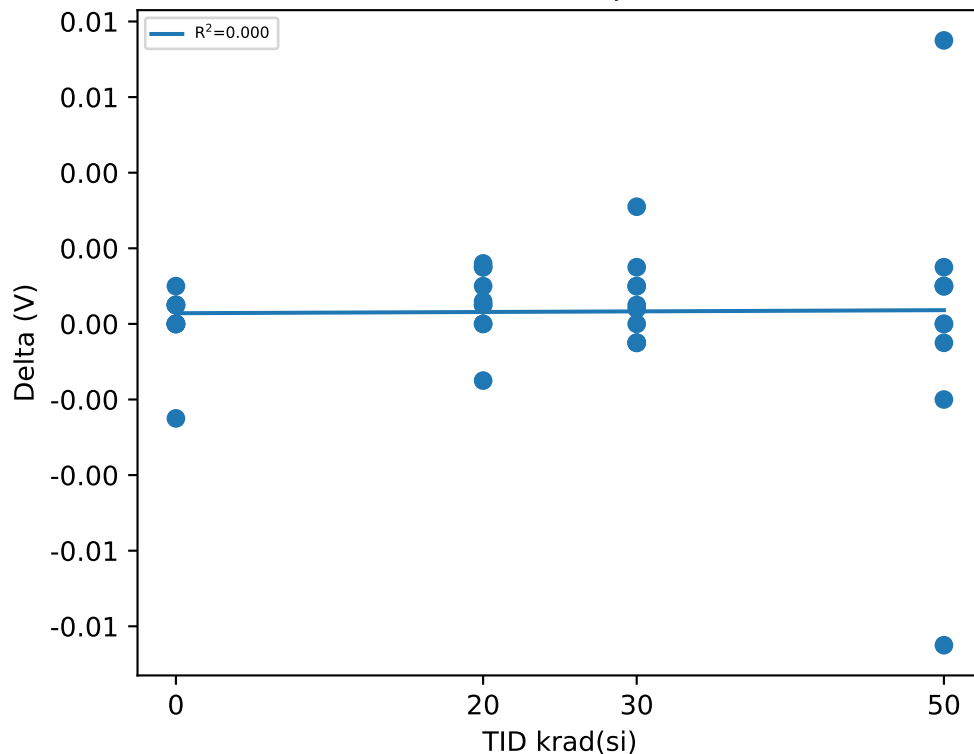
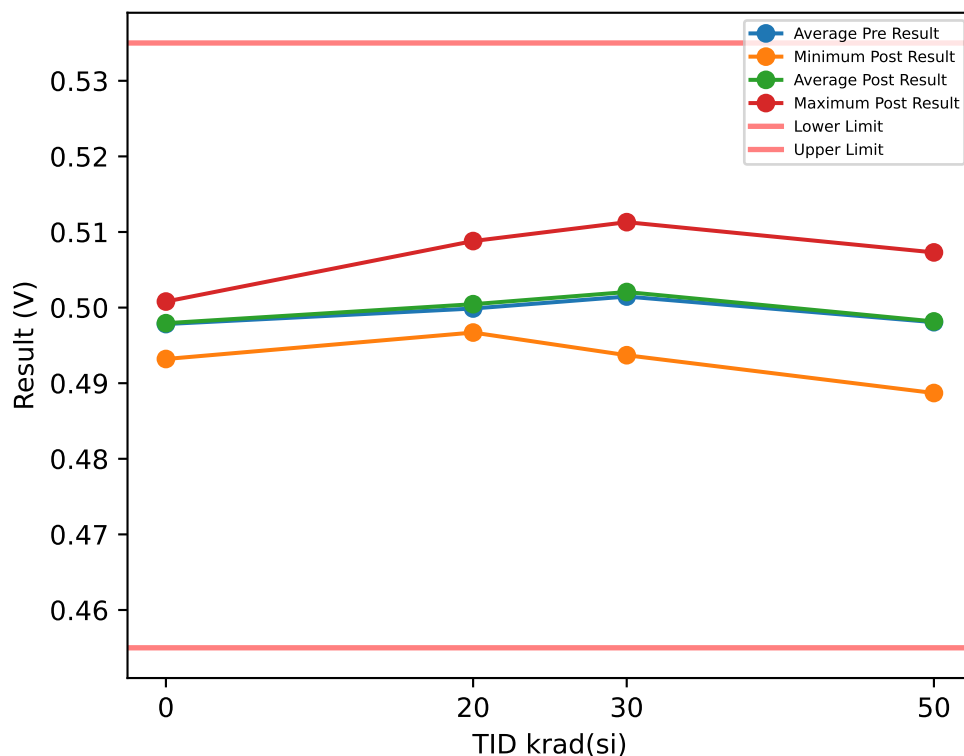
Test Results (Lower Limit = 0.555, Upper Limit = 0.635 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6043	0.6048	0.0005
516	0	CORRELATION	0.6008	0.5987	-0.0021
721	0	CORRELATION	0.6023	0.6023	0
723	0	CORRELATION	0.6028	0.6023	-0.0005
729	0	CORRELATION	0.6018	0.6013	-0.0005
990	20	Unbiased	0.6023	0.6028	0.0005
991	20	Unbiased	0.6023	0.6028	0.0005
992	20	Unbiased	0.6103	0.6123	0.002
993	20	Unbiased	0.6038	0.6053	0.0015
994	20	Unbiased	0.6013	0.6023	0.001
995	20	Biased	0.6078	0.6063	-0.0015
996	20	Biased	0.6048	0.6063	0.0015
997	20	Biased	0.5998	0.6002	0.0004
998	20	Biased	0.6038	0.6038	0
999	20	Biased	0.6013	0.6013	0
1020	30	Unbiased	0.6033	0.6038	0.0005
1021	30	Unbiased	0.5992	0.5992	0
1022	30	Unbiased	0.5972	0.5987	0.0015
1023	30	Unbiased	0.6103	0.6103	0
1024	30	Unbiased	0.6098	0.6108	0.001
1025	30	Biased	0.6123	0.6113	-0.001
1026	30	Biased	0.6043	0.6053	0.001
1027	30	Biased	0.6043	0.6073	0.003
1028	30	Biased	0.6148	0.6148	0
1029	30	Biased	0.6013	0.6013	0
1030	50	Unbiased	0.6038	0.6043	0.0005
1031	50	Unbiased	0.6108	0.6113	0.0005
1032	50	Unbiased	0.6038	0.6013	-0.0025
1033	50	Unbiased	0.5977	0.5987	0.001
1034	50	Unbiased	0.6038	0.6028	-0.001
1035	50	Biased-84Hr-Anneal	0.6103	0.6103	0
1036	50	Biased-84Hr-Anneal	0.6008	0.6008	0
1037	50	Biased-84Hr-Anneal	0.5962	0.5967	0.0005
1038	50	Biased-84Hr-Anneal	0.6023	0.5942	-0.0081
1039	50	Biased-84Hr-Anneal	0.5957	0.6028	0.0071

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	0.6008	0.6024	0.6043	0.0012942	0.5987	0.60188	0.6048	0.0021982	-0.0021	-0.00052	0.0005	0.0009757
20	0.5998	0.60375	0.6103	0.0032011	0.6002	0.60434	0.6123	0.0034568	-0.0015	0.00059	0.002	0.00099605
30	0.5972	0.60568	0.6148	0.0058488	0.5987	0.60628	0.6148	0.0055269	-0.001	0.0006	0.003	0.0011005
50	0.5957	0.60252	0.6108	0.0052355	0.5942	0.60232	0.6113	0.0054024	-0.0081	-0.0002	0.0071	0.0037211

Device Test: 16.10 THRESHOLD|FALL/FAULT/12////@FAULT_VTH_FALLING



Test Results (Lower Limit = 0.455,
Upper Limit = 0.535 (V))

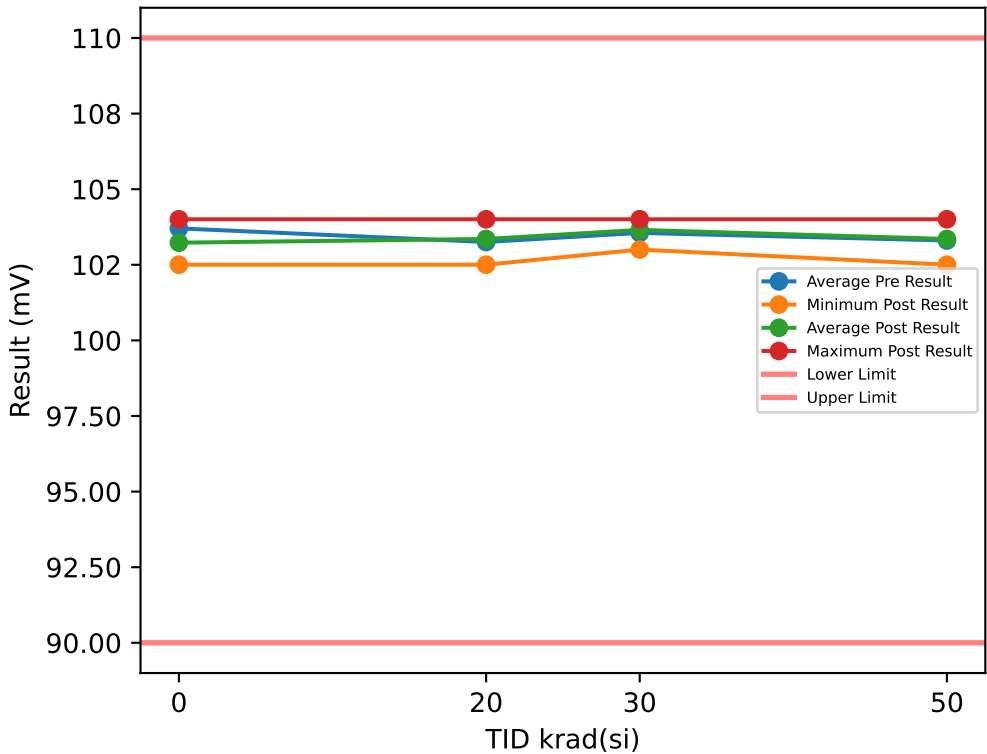
Serial #	krad(Si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.4998	0.5008	0.001
516	0	CORRELATION	0.4957	0.4932	-0.0025
721	0	CORRELATION	0.4977	0.4977	0
723	0	CORRELATION	0.4982	0.4987	0.0005
729	0	CORRELATION	0.4977	0.4977	0
990	20	Unbiased	0.4992	0.4998	0.0006
991	20	Unbiased	0.4982	0.4987	0.0005
992	20	Unbiased	0.5073	0.5088	0.0015
993	20	Unbiased	0.4998	0.5013	0.0015
994	20	Unbiased	0.4977	0.4982	0.0005
995	20	Biased	0.5048	0.5033	-0.0015
996	20	Biased	0.5002	0.5018	0.0016
997	20	Biased	0.4957	0.4967	0.001
998	20	Biased	0.4987	0.4987	0
999	20	Biased	0.4972	0.4972	0
1020	30	Unbiased	0.4998	0.5002	0.0004
1021	30	Unbiased	0.4937	0.4942	0.0005
1022	30	Unbiased	0.4922	0.4937	0.0015
1023	30	Unbiased	0.5063	0.5058	-0.0005
1024	30	Unbiased	0.5053	0.5063	0.001
1025	30	Biased	0.5088	0.5083	-0.0005
1026	30	Biased	0.5008	0.5018	0.001
1027	30	Biased	0.4992	0.5023	0.0031
1028	30	Biased	0.5118	0.5113	-0.0005
1029	30	Biased	0.4967	0.4967	0
1030	50	Unbiased	0.4992	0.5002	0.001
1031	50	Unbiased	0.5063	0.5073	0.001
1032	50	Unbiased	0.4992	0.4972	-0.002
1033	50	Unbiased	0.4942	0.4957	0.0015
1034	50	Unbiased	0.4992	0.4992	0
1035	50	Biased-84Hr-Anneal	0.5068	0.5063	-0.0005
1036	50	Biased-84Hr-Anneal	0.4967	0.4967	0
1037	50	Biased-84Hr-Anneal	0.4917	0.4927	0.001
1038	50	Biased-84Hr-Anneal	0.4972	0.4887	-0.0085
1039	50	Biased-84Hr-Anneal	0.4902	0.4977	0.0075

Test Statistics (V)

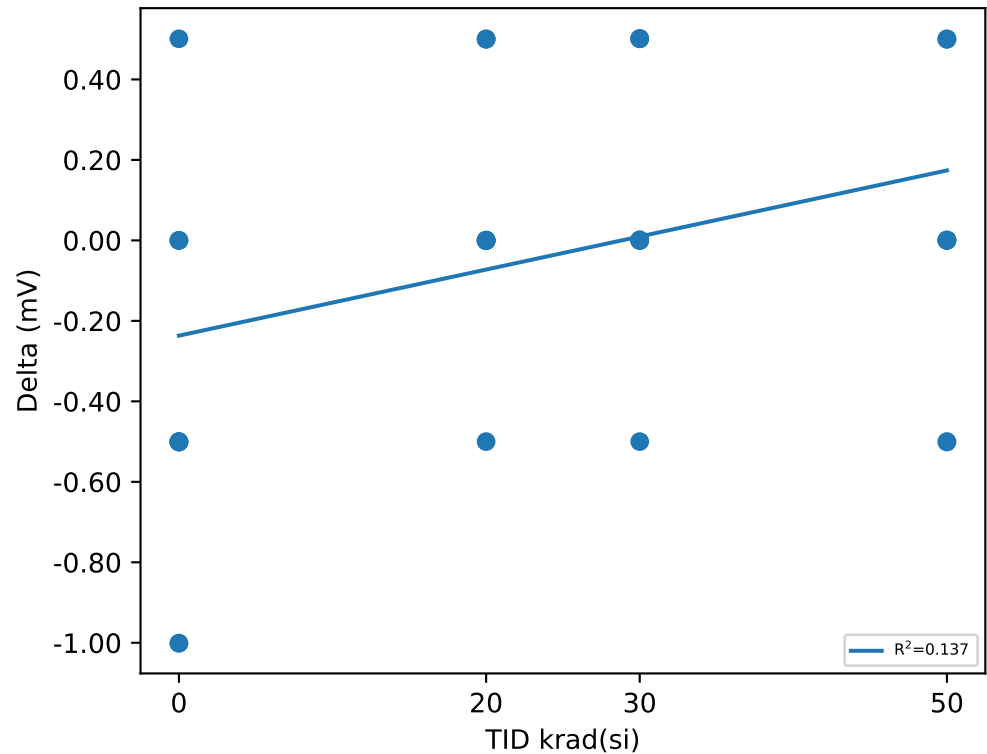
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4957	0.49782	0.4998	0.0014653	0.4932	0.49762	0.5008	0.0027761	-0.0025	-0.0002	0.001	0.0013509
20	0.4957	0.49988	0.5073	0.0035505	0.4967	0.50045	0.5088	0.0035998	-0.0015	0.00057	0.0016	0.00093814
30	0.4922	0.50146	0.5118	0.0064626	0.4937	0.50206	0.5113	0.0059653	-0.0005	0.0006	0.0031	0.0011264
50	0.4902	0.49807	0.5068	0.0054559	0.4887	0.49817	0.5073	0.0056141	-0.0085	0.0001	0.0075	0.0039144

Device Test: 16.11 THRESHOLD|HYST/FAULT/12////@FAULT_VTH_HYST

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 90.0, Upper Limit = 110.0 (mV))

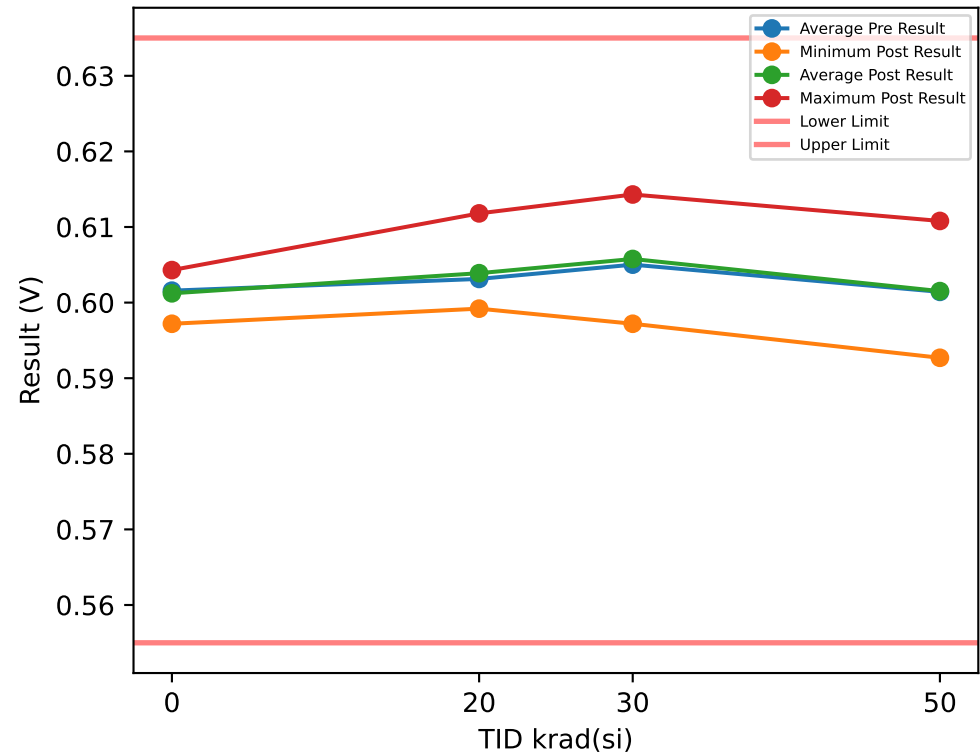
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	104	103.5	-0.501
516	0	CORRELATION	103.5	104	0.501
721	0	CORRELATION	104	104	0
723	0	CORRELATION	104	103.5	-0.5
729	0	CORRELATION	103	103	0
990	20	Unbiased	103	103.5	0.5
991	20	Unbiased	103.5	103.5	0.001
992	20	Unbiased	102.5	103	0.501
993	20	Unbiased	103	103	0
994	20	Unbiased	103.5	103.5	-0.001
995	20	Biased	103	103	0
996	20	Biased	103.5	104	0.5
997	20	Biased	103	102.5	-0.5
998	20	Biased	104	104	0
999	20	Biased	103.5	103.5	0
1020	30	Unbiased	103	103.5	0.502
1021	30	Unbiased	104	104	0
1022	30	Unbiased	104	103.5	-0.5
1023	30	Unbiased	103.5	104	0.501
1024	30	Unbiased	104	104	0
1025	30	Biased	103.5	103.5	0.001
1026	30	Biased	103.5	103.5	0.001
1027	30	Biased	103.5	104	0.501
1028	30	Biased	103	103	0.001
1029	30	Biased	103.5	103.5	0
1030	50	Unbiased	103.5	103.5	0.001
1031	50	Unbiased	103.5	103.5	0
1032	50	Unbiased	103.5	103.5	0
1033	50	Unbiased	103	102.5	-0.501
1034	50	Unbiased	103	103	0
1035	50	Biased-84Hr-Anneal	103	103.5	0.5
1036	50	Biased-84Hr-Anneal	103	103.5	0.5
1037	50	Biased-84Hr-Anneal	103	103	0.001
1038	50	Biased-84Hr-Anneal	103.5	104	0.501
1039	50	Biased-84Hr-Anneal	104	103.5	-0.5

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	103	103.7	104	0.44772	103	103.6	104	0.41875	-0.501	-0.1	0.501	0.41893
20	102.5	103.25	104	0.42557	102.5	103.35	104	0.47496	-0.5	0.1001	0.501	0.31637
30	103	103.55	104	0.36967	103	103.65	104	0.33774	-0.5	0.1007	0.502	0.31668
50	103	103.3	104	0.34992	102.5	103.35	104	0.41212	-0.501	0.0502	0.501	0.3692

Device Test: 16.13 THRESHOLD|RISE/FAULT/14////@FAULT_VTH_RISING

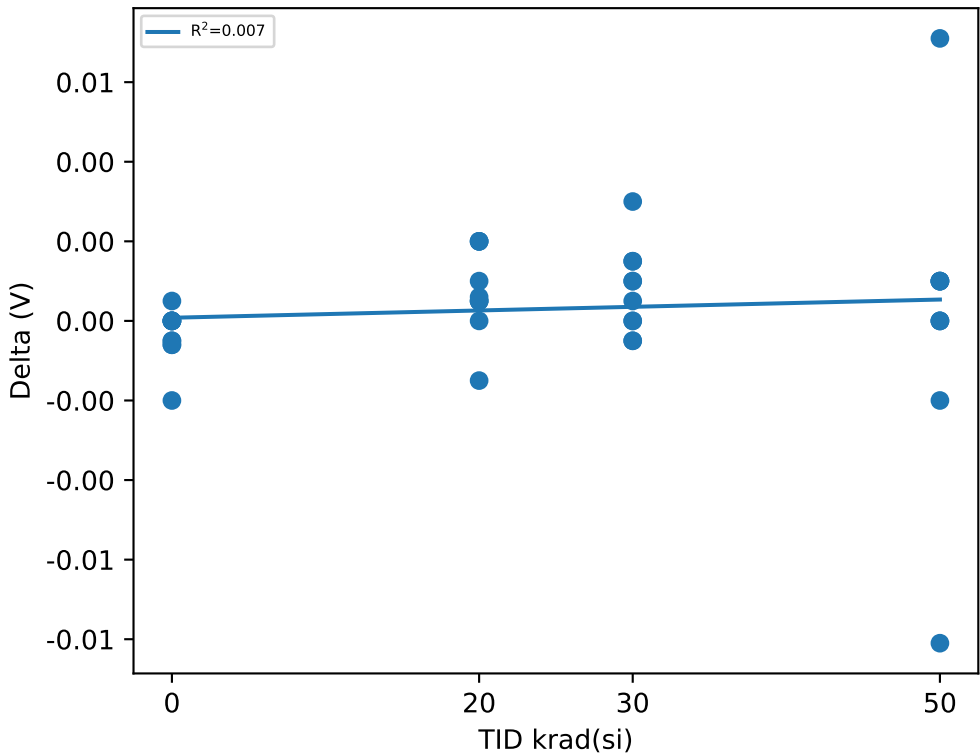
TID vs Result Stats



Test Results (Lower Limit = 0.555, Upper Limit = 0.635 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6038	0.6043	0.0005
516	0	CORRELATION	0.5992	0.5972	-0.002
721	0	CORRELATION	0.6018	0.6018	0
723	0	CORRELATION	0.6023	0.6023	0
729	0	CORRELATION	0.6008	0.6002	-0.0006
990	20	Unbiased	0.6023	0.6033	0.001
991	20	Unbiased	0.6018	0.6023	0.0005
992	20	Unbiased	0.6098	0.6118	0.002
993	20	Unbiased	0.6028	0.6048	0.002
994	20	Unbiased	0.6013	0.6018	0.0005
995	20	Biased	0.6078	0.6063	-0.0015
996	20	Biased	0.6038	0.6058	0.002
997	20	Biased	0.5987	0.5992	0.0005
998	20	Biased	0.6028	0.6028	0
999	20	Biased	0.6002	0.6008	0.0006
1020	30	Unbiased	0.6023	0.6038	0.0015
1021	30	Unbiased	0.5977	0.5982	0.0005
1022	30	Unbiased	0.5962	0.5972	0.001
1023	30	Unbiased	0.6098	0.6098	0
1024	30	Unbiased	0.6093	0.6108	0.0015
1025	30	Biased	0.6123	0.6118	-0.0005
1026	30	Biased	0.6043	0.6053	0.001
1027	30	Biased	0.6033	0.6063	0.003
1028	30	Biased	0.6148	0.6143	-0.0005
1029	30	Biased	0.6002	0.6002	0
1030	50	Unbiased	0.6028	0.6038	0.001
1031	50	Unbiased	0.6098	0.6108	0.001
1032	50	Unbiased	0.6028	0.6008	-0.002
1033	50	Unbiased	0.5972	0.5982	0.001
1034	50	Unbiased	0.6023	0.6023	0
1035	50	Biased-84Hr-Anneal	0.6098	0.6098	0
1036	50	Biased-84Hr-Anneal	0.5998	0.5998	0
1037	50	Biased-84Hr-Anneal	0.5947	0.5957	0.001
1038	50	Biased-84Hr-Anneal	0.6008	0.5927	-0.0081
1039	50	Biased-84Hr-Anneal	0.5942	0.6013	0.0071

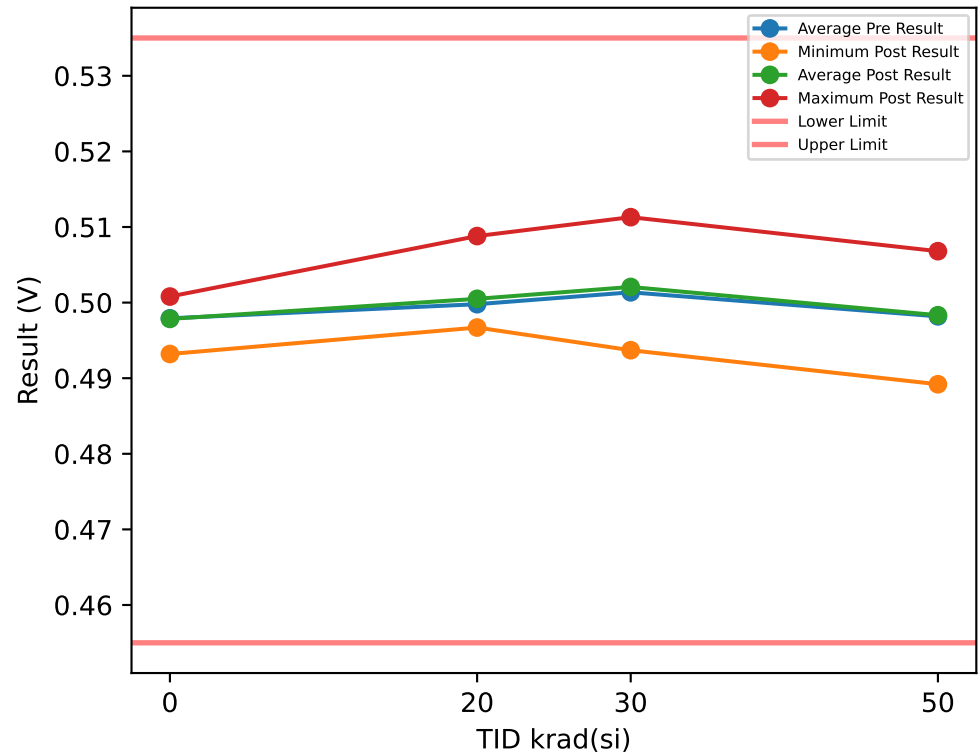
TID vs Post - Pre Exposure Delta



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	0.5992	0.60158	0.6038	0.0017152	0.5972	0.60116	0.6043	0.0026539	-0.002	-0.00042	0.0005	0.0009654
20	0.5987	0.60313	0.6098	0.0033496	0.5992	0.60389	0.6118	0.0035407	-0.0015	0.00076	0.002	0.0010844
30	0.5962	0.60502	0.6148	0.0062831	0.5972	0.60577	0.6143	0.0059332	-0.0005	0.00075	0.003	0.0010865
50	0.5942	0.60142	0.6098	0.0054072	0.5927	0.60152	0.6108	0.005644	-0.0081	0.0001	0.0071	0.0037106

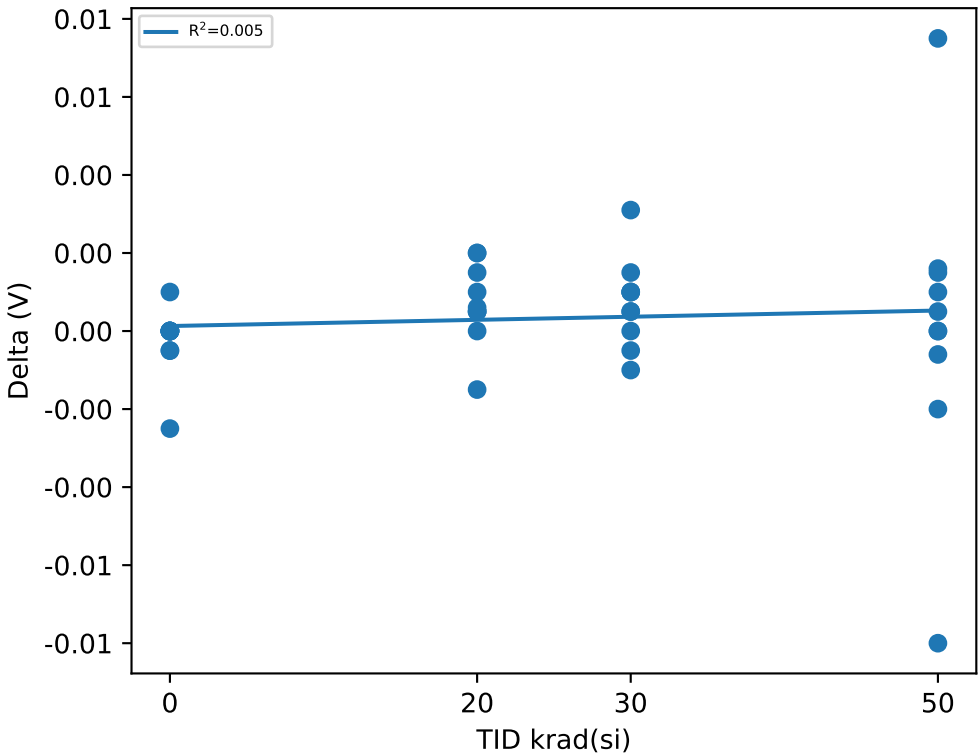
TID vs Result Stats



Test Results (Lower Limit = 0.455, Upper Limit = 0.535 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.4998	0.5008	0.001
516	0	CORRELATION	0.4957	0.4932	-0.0025
721	0	CORRELATION	0.4977	0.4977	0
723	0	CORRELATION	0.4987	0.4987	0
729	0	CORRELATION	0.4977	0.4972	-0.0005
990	20	Unbiased	0.4992	0.4998	0.0006
991	20	Unbiased	0.4982	0.4987	0.0005
992	20	Unbiased	0.5068	0.5088	0.002
993	20	Unbiased	0.4998	0.5013	0.0015
994	20	Unbiased	0.4977	0.4982	0.0005
995	20	Biased	0.5048	0.5033	-0.0015
996	20	Biased	0.4998	0.5018	0.002
997	20	Biased	0.4957	0.4967	0.001
998	20	Biased	0.4987	0.4992	0.0005
999	20	Biased	0.4972	0.4972	0
1020	30	Unbiased	0.4998	0.5008	0.001
1021	30	Unbiased	0.4937	0.4942	0.0005
1022	30	Unbiased	0.4922	0.4937	0.0015
1023	30	Unbiased	0.5063	0.5058	-0.0005
1024	30	Unbiased	0.5053	0.5063	0.001
1025	30	Biased	0.5088	0.5078	-0.001
1026	30	Biased	0.5008	0.5018	0.001
1027	30	Biased	0.4992	0.5023	0.0031
1028	30	Biased	0.5113	0.5113	0
1029	30	Biased	0.4962	0.4967	0.0005
1030	50	Unbiased	0.4992	0.5008	0.0016
1031	50	Unbiased	0.5068	0.5068	0
1032	50	Unbiased	0.4992	0.4972	-0.002
1033	50	Unbiased	0.4942	0.4957	0.0015
1034	50	Unbiased	0.4998	0.4992	-0.0006
1035	50	Biased-84Hr-Anneal	0.5068	0.5068	0
1036	50	Biased-84Hr-Anneal	0.4967	0.4972	0.0005
1037	50	Biased-84Hr-Anneal	0.4917	0.4927	0.001
1038	50	Biased-84Hr-Anneal	0.4972	0.4892	-0.008
1039	50	Biased-84Hr-Anneal	0.4902	0.4977	0.0075

TID vs Post - Pre Exposure Delta

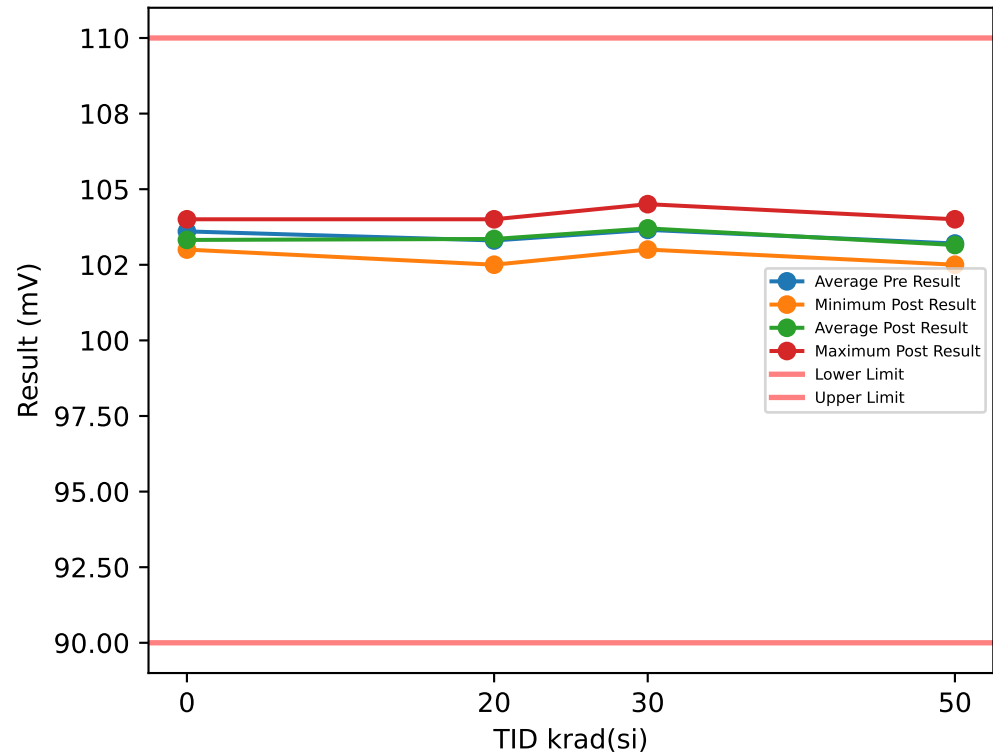


Test Statistics (V)

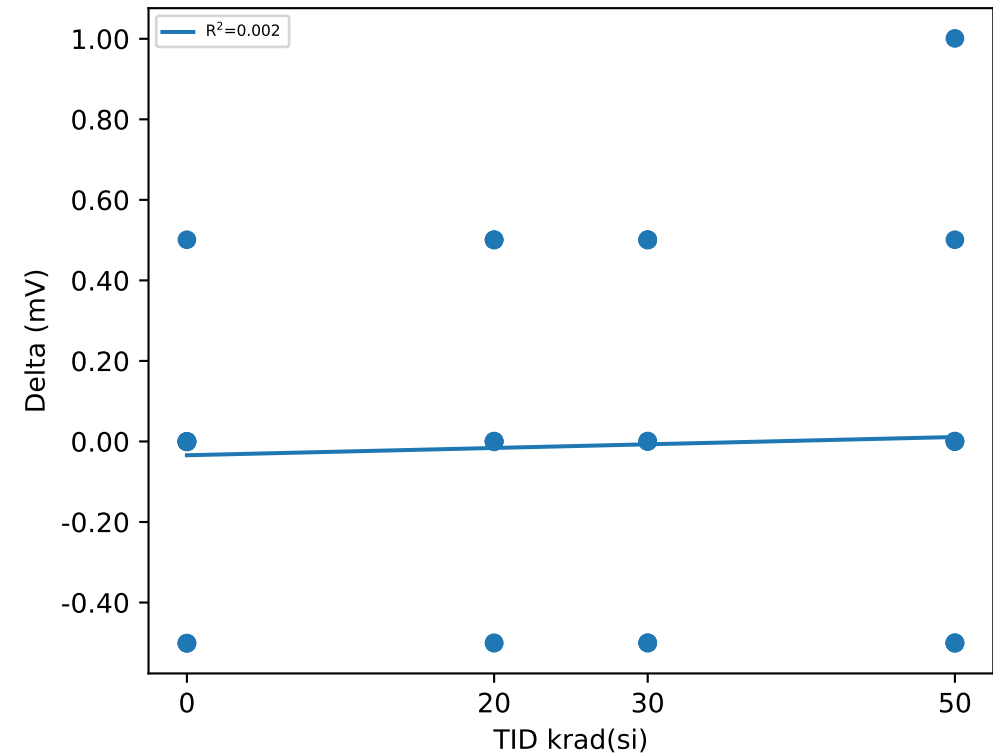
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4957	0.49792	0.4998	0.0015139	0.4932	0.49752	0.5008	0.0027815	-0.0025	-0.0004	0.001	0.0012942
20	0.4957	0.49979	0.5068	0.0034336	0.4967	0.5005	0.5088	0.0035762	-0.0015	0.00071	0.002	0.0010311
30	0.4922	0.50136	0.5113	0.0064179	0.4937	0.50207	0.5113	0.0058916	-0.001	0.00071	0.0031	0.0011338
50	0.4902	0.49818	0.5068	0.0055575	0.4892	0.49833	0.5068	0.0055303	-0.008	0.00015	0.0075	0.0038071

Device Test: 16.15 THRESHOLD|HYST/FAULT/14////@FAULT_VTH_HYST

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 90.0, Upper Limit = 110.0 (mV))

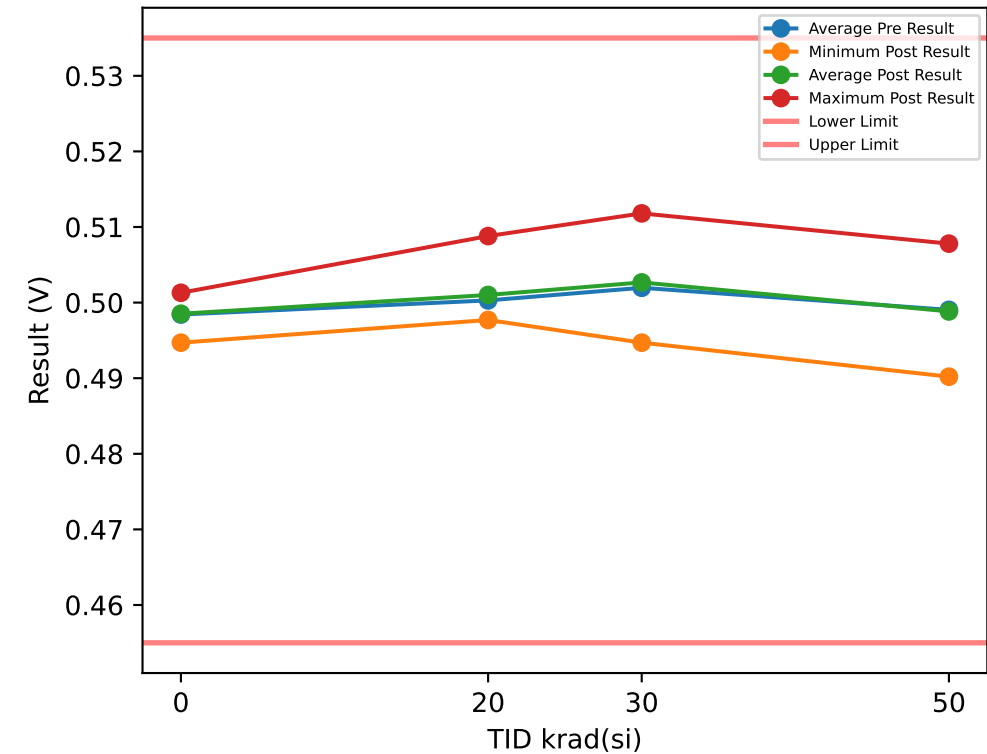
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	104	103.5	-0.501
516	0	CORRELATION	103.5	104	0.501
721	0	CORRELATION	104	104	0
723	0	CORRELATION	103.5	103.5	0
729	0	CORRELATION	103	103	-0.001
990	20	Unbiased	103	103.5	0.5
991	20	Unbiased	103.5	103.5	0.001
992	20	Unbiased	103	103	0
993	20	Unbiased	103	103.5	0.501
994	20	Unbiased	103.5	103.5	-0.001
995	20	Biased	103	103	0
996	20	Biased	104	104	0
997	20	Biased	103	102.5	-0.5
998	20	Biased	104	103.5	-0.501
999	20	Biased	103	103.5	0.501
1020	30	Unbiased	102.5	103	0.501
1021	30	Unbiased	104	104	0
1022	30	Unbiased	104	103.5	-0.5
1023	30	Unbiased	103.5	104	0.501
1024	30	Unbiased	104	104.5	0.5
1025	30	Biased	103.5	104	0.501
1026	30	Biased	103.5	103.5	0.001
1027	30	Biased	104	104	0
1028	30	Biased	103.5	103	-0.5
1029	30	Biased	104	103.5	-0.501
1030	50	Unbiased	103.5	103	-0.5
1031	50	Unbiased	103	104	1.001
1032	50	Unbiased	103.5	103.5	0
1033	50	Unbiased	103	102.5	-0.501
1034	50	Unbiased	102.5	103	0.501
1035	50	Biased-84Hr-Anneal	103	103	0
1036	50	Biased-84Hr-Anneal	103	102.5	-0.501
1037	50	Biased-84Hr-Anneal	103	103	0.001
1038	50	Biased-84Hr-Anneal	103.5	103.5	0
1039	50	Biased-84Hr-Anneal	104	103.5	-0.5

Test Statistics (mV)

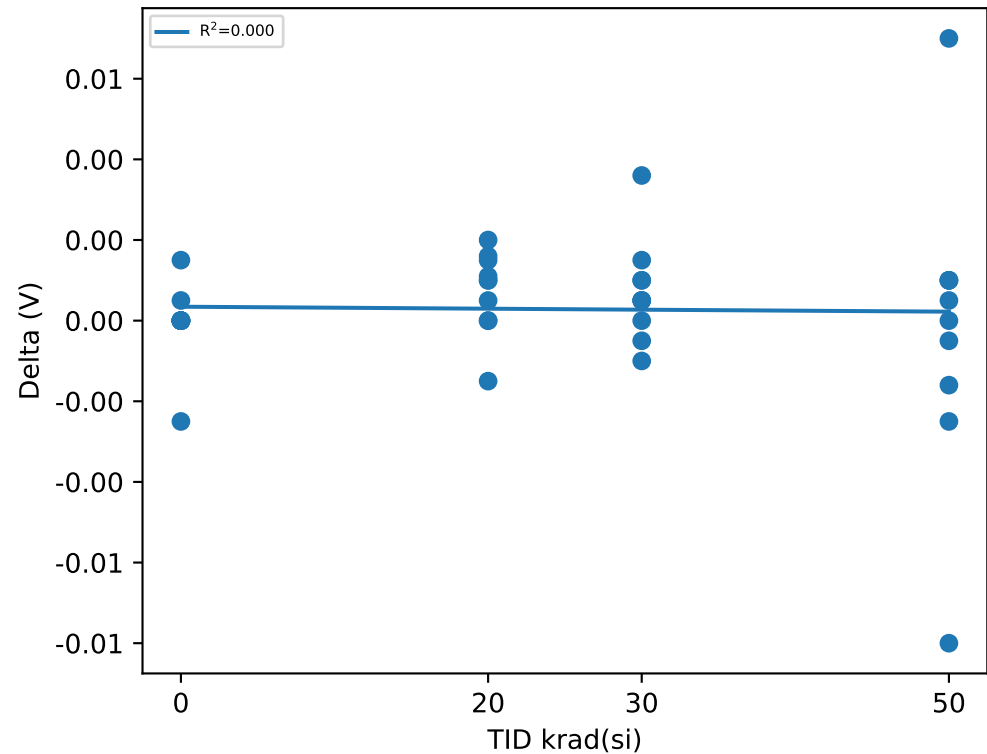
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	103	103.6	104	0.41875	103	103.6	104	0.41911	-0.501	-0.0002	0.501	0.35426
20	103	103.3	104	0.4223	102.5	103.35	104	0.41208	-0.501	0.0501	0.501	0.36937
30	102.5	103.65	104	0.47502	103	103.7	104.5	0.48341	-0.501	0.0503	0.501	0.43827
50	102.5	103.2	104	0.42209	102.5	103.15	104	0.47493	-0.501	-0.0499	1.001	0.49778

Device Test: 16.2 THRESHOLD|FALL/FAULT/4.5////@FAULT_VTH_FALLING

TID vs Result Stats



TID vs Post - Pre Exposure Delta



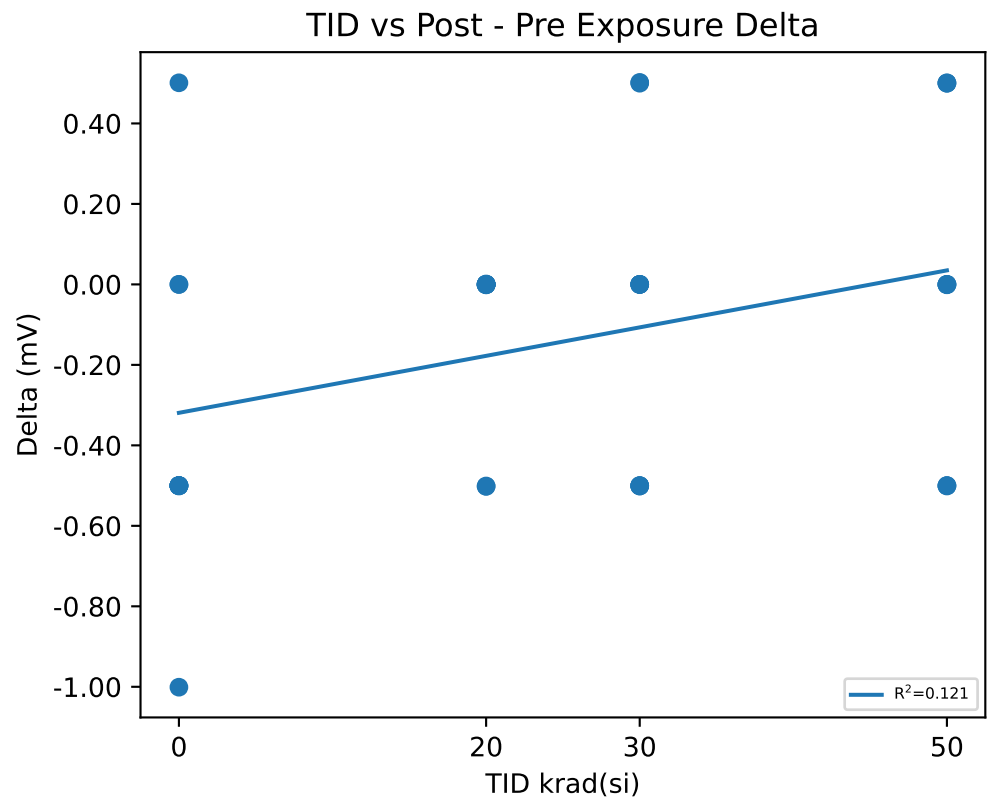
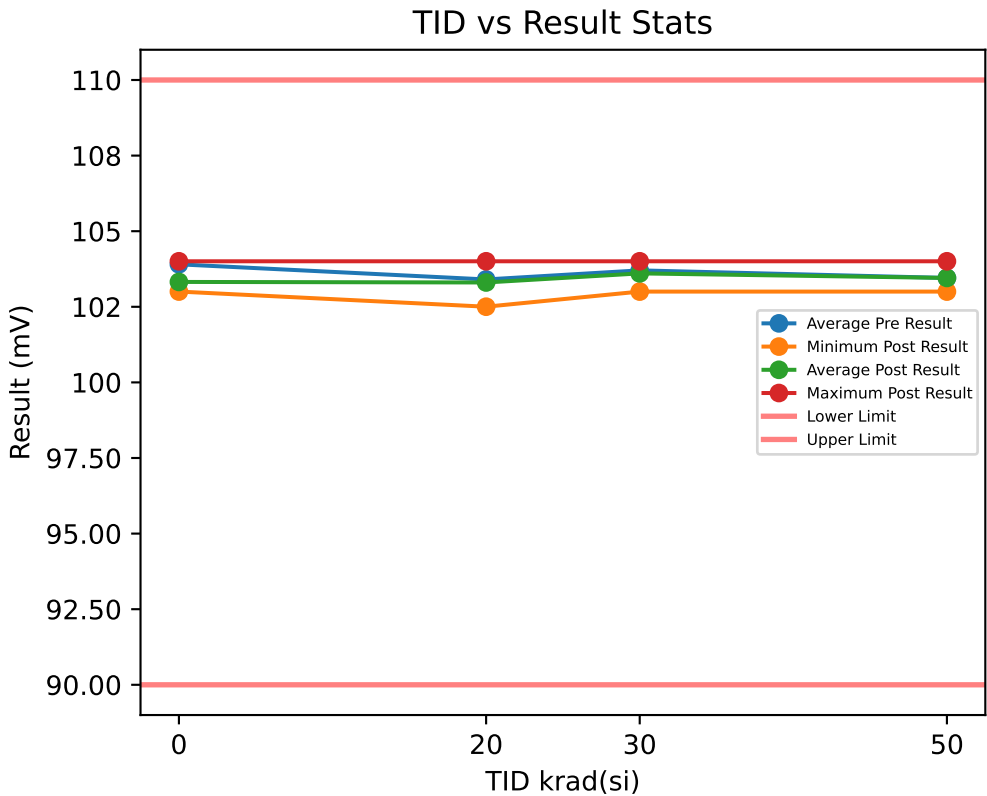
Test Results (Lower Limit = 0.455, Upper Limit = 0.535 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.4998	0.5013	0.0015
516	0	CORRELATION	0.4972	0.4947	-0.0025
721	0	CORRELATION	0.4977	0.4982	0.0005
723	0	CORRELATION	0.4992	0.4992	0
729	0	CORRELATION	0.4982	0.4982	0
990	20	Unbiased	0.4987	0.4998	0.0011
991	20	Unbiased	0.4987	0.4992	0.0005
992	20	Unbiased	0.5068	0.5088	0.002
993	20	Unbiased	0.5002	0.5018	0.0016
994	20	Unbiased	0.4977	0.4987	0.001
995	20	Biased	0.5048	0.5033	-0.0015
996	20	Biased	0.5013	0.5028	0.0015
997	20	Biased	0.4967	0.4977	0.001
998	20	Biased	0.4998	0.4998	0
999	20	Biased	0.4982	0.4982	0
1020	30	Unbiased	0.4998	0.5008	0.001
1021	30	Unbiased	0.4947	0.4952	0.0005
1022	30	Unbiased	0.4932	0.4947	0.0015
1023	30	Unbiased	0.5068	0.5063	-0.0005
1024	30	Unbiased	0.5058	0.5068	0.001
1025	30	Biased	0.5088	0.5078	-0.001
1026	30	Biased	0.5013	0.5018	0.0005
1027	30	Biased	0.5002	0.5038	0.0036
1028	30	Biased	0.5118	0.5118	0
1029	30	Biased	0.4972	0.4977	0.0005
1030	50	Unbiased	0.5008	0.5008	0
1031	50	Unbiased	0.5068	0.5078	0.001
1032	50	Unbiased	0.5002	0.4977	-0.0025
1033	50	Unbiased	0.4947	0.4957	0.001
1034	50	Unbiased	0.5008	0.4992	-0.0016
1035	50	Biased-84Hr-Anneal	0.5073	0.5068	-0.0005
1036	50	Biased-84Hr-Anneal	0.4972	0.4977	0.0005
1037	50	Biased-84Hr-Anneal	0.4927	0.4937	0.001
1038	50	Biased-84Hr-Anneal	0.4982	0.4902	-0.008
1039	50	Biased-84Hr-Anneal	0.4917	0.4987	0.007

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	0.4972	0.49842	0.4998	0.0010686	0.4947	0.49832	0.5013	0.0023868	-0.0025	-0.0001	0.0015	0.0014748
20	0.4967	0.50029	0.5068	0.0032147	0.4977	0.50101	0.5088	0.0033358	-0.0015	0.00072	0.002	0.0010185
30	0.4932	0.50196	0.5118	0.0061652	0.4947	0.50267	0.5118	0.0056712	-0.001	0.00071	0.0036	0.0012547
50	0.4917	0.49904	0.5073	0.0053018	0.4902	0.49883	0.5078	0.0053868	-0.008	-0.00021	0.007	0.0037248

Device Test: 16.3 THRESHOLD|HYST/FAULT/4.5////@FAULT_VTH_HYST



Test Results (Lower Limit = 90.0, Upper Limit = 110.0 (mV))

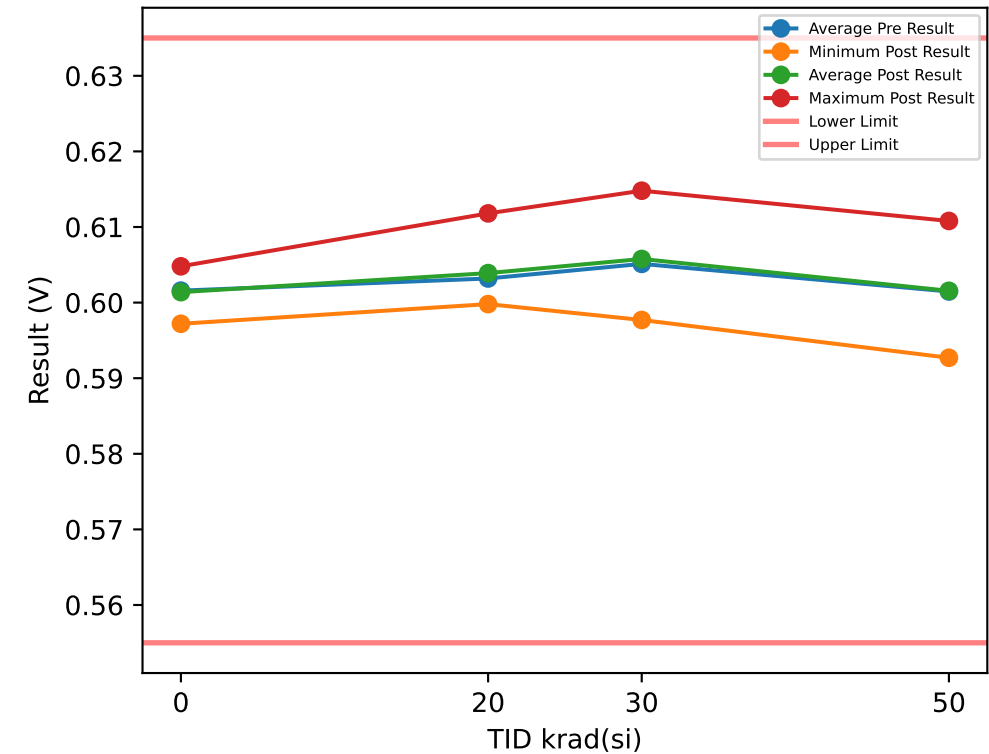
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	104.5	103.5	-1.001
516	0	CORRELATION	103.5	104	0.501
721	0	CORRELATION	104.51	104	-0.501
723	0	CORRELATION	103.5	103	-0.5
729	0	CORRELATION	103.5	103	-0.5
990	20	Unbiased	103.5	103	-0.502
991	20	Unbiased	103.5	103.5	-0.001
992	20	Unbiased	103.5	103.5	-0.001
993	20	Unbiased	103.5	103.5	0
994	20	Unbiased	103.5	103.5	0
995	20	Biased	103	103	0
996	20	Biased	103.5	103.5	0.001
997	20	Biased	103	102.5	-0.501
998	20	Biased	104	104	0
999	20	Biased	103	103	0
1020	30	Unbiased	103.5	103	-0.5
1021	30	Unbiased	104.51	104	-0.501
1022	30	Unbiased	104	104	0
1023	30	Unbiased	103.5	104	0.5
1024	30	Unbiased	104	104	0
1025	30	Biased	103.5	103.5	0
1026	30	Biased	103	103.5	0.502
1027	30	Biased	104	103.5	-0.501
1028	30	Biased	103	103	0
1029	30	Biased	104	103.5	-0.5
1030	50	Unbiased	103	103.5	0.5
1031	50	Unbiased	104	103.5	-0.501
1032	50	Unbiased	103.5	103.5	0
1033	50	Unbiased	103	103	-0.001
1034	50	Unbiased	103	103.5	0.5
1035	50	Biased-84Hr-Anneal	103	103.5	0.501
1036	50	Biased-84Hr-Anneal	103.5	103	-0.5
1037	50	Biased-84Hr-Anneal	103.5	103	-0.5
1038	50	Biased-84Hr-Anneal	104	104	0
1039	50	Biased-84Hr-Anneal	104	104	0

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	103.5	103.9	104.51	0.54854	103	103.5	104	0.5005	-1.001	-0.4002	0.501	0.54845
20	103	103.4	104	0.31661	102.5	103.3	104	0.42227	-0.502	-0.1004	0.001	0.2114
30	103	103.7	104.51	0.48397	103	103.6	104	0.39497	-0.501	-0.1	0.502	0.39497
50	103	103.45	104	0.43823	103	103.45	104	0.36943	-0.501	-0.0001	0.501	0.40852

Device Test: 16.5 THRESHOLD|RISE/FAULT/5////@FAULT_VTH_RISING

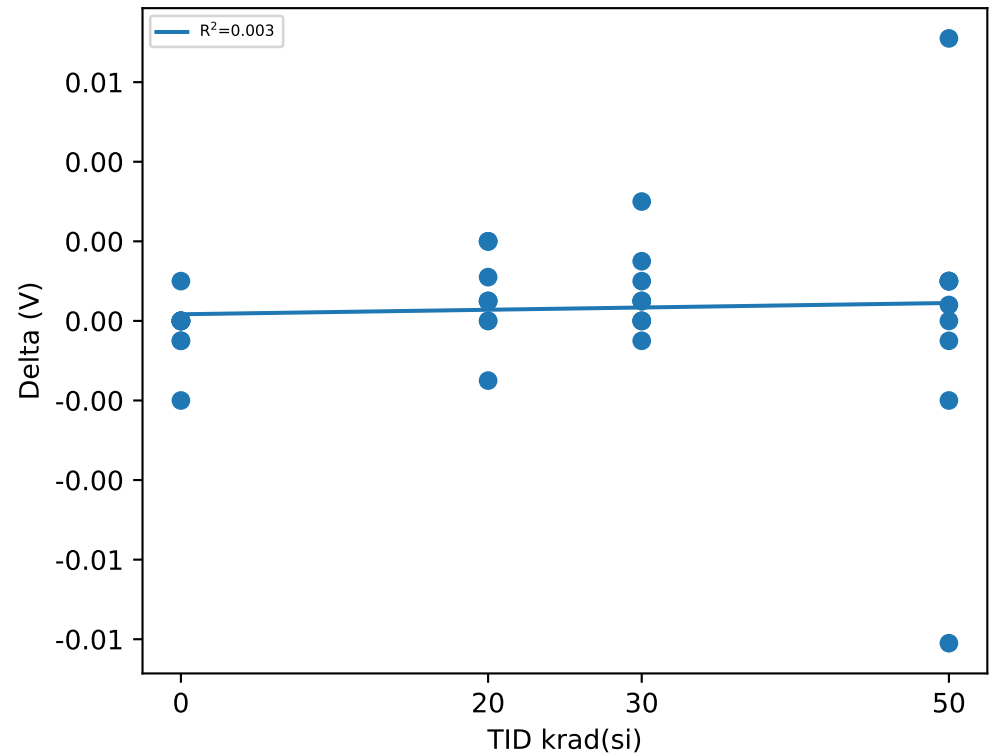
TID vs Result Stats



Test Results (Lower Limit = 0.555, Upper Limit = 0.635 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6038	0.6048	0.001
516	0	CORRELATION	0.5992	0.5972	-0.002
721	0	CORRELATION	0.6018	0.6018	0
723	0	CORRELATION	0.6023	0.6023	0
729	0	CORRELATION	0.6008	0.6008	0
990	20	Unbiased	0.6023	0.6028	0.0005
991	20	Unbiased	0.6018	0.6023	0.0005
992	20	Unbiased	0.6098	0.6118	0.002
993	20	Unbiased	0.6028	0.6048	0.002
994	20	Unbiased	0.6013	0.6018	0.0005
995	20	Biased	0.6078	0.6063	-0.0015
996	20	Biased	0.6038	0.6058	0.002
997	20	Biased	0.5987	0.5998	0.0011
998	20	Biased	0.6028	0.6028	0
999	20	Biased	0.6008	0.6008	0
1020	30	Unbiased	0.6028	0.6038	0.001
1021	30	Unbiased	0.5977	0.5982	0.0005
1022	30	Unbiased	0.5962	0.5977	0.0015
1023	30	Unbiased	0.6098	0.6098	0
1024	30	Unbiased	0.6098	0.6103	0.0005
1025	30	Biased	0.6123	0.6118	-0.0005
1026	30	Biased	0.6043	0.6048	0.0005
1027	30	Biased	0.6033	0.6063	0.003
1028	30	Biased	0.6148	0.6148	0
1029	30	Biased	0.6002	0.6002	0
1030	50	Unbiased	0.6028	0.6038	0.001
1031	50	Unbiased	0.6098	0.6108	0.001
1032	50	Unbiased	0.6028	0.6008	-0.002
1033	50	Unbiased	0.5972	0.5982	0.001
1034	50	Unbiased	0.6028	0.6023	-0.0005
1035	50	Biased-84Hr-Anneal	0.6098	0.6098	0
1036	50	Biased-84Hr-Anneal	0.5998	0.6002	0.0004
1037	50	Biased-84Hr-Anneal	0.5947	0.5957	0.001
1038	50	Biased-84Hr-Anneal	0.6008	0.5927	-0.0081
1039	50	Biased-84Hr-Anneal	0.5942	0.6013	0.0071

TID vs Post - Pre Exposure Delta

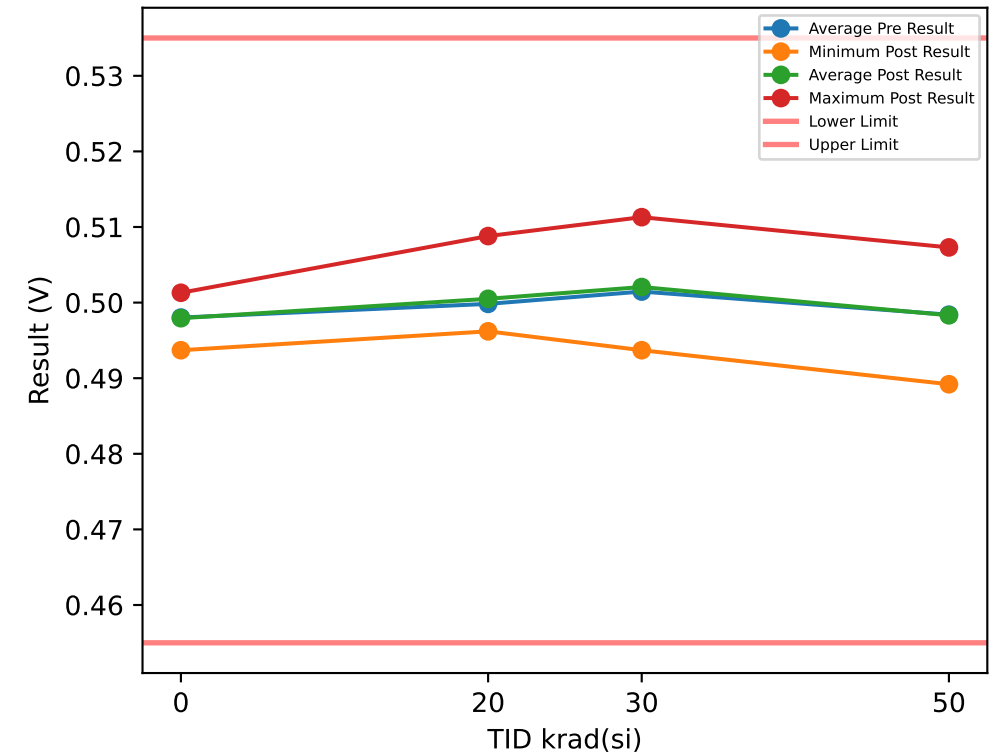


Test Statistics (V)

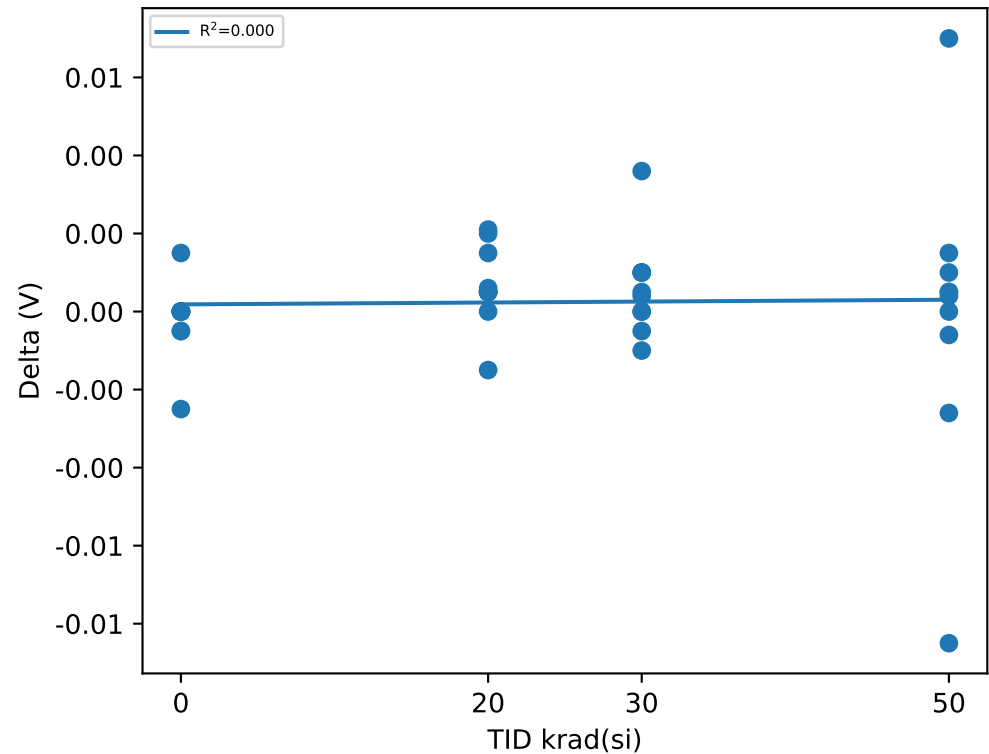
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5992	0.60158	0.6038	0.0017152	0.5972	0.60138	0.6048	0.0027626	-0.002	-0.0002	0.001	0.0010954
20	0.5987	0.60319	0.6098	0.0032963	0.5998	0.6039	0.6118	0.0034705	-0.0015	0.00071	0.002	0.001114
30	0.5962	0.60512	0.6148	0.0063004	0.5977	0.60577	0.6148	0.0058994	-0.0005	0.00065	0.003	0.0010014
50	0.5942	0.60147	0.6098	0.0054185	0.5927	0.60156	0.6108	0.0056319	-0.0081	9e-05	0.0071	0.0037171

Device Test: 16.6 THRESHOLD|FALL/FAULT/5////@FAULT_VTH_FALLING

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.455, Upper Limit = 0.535 (V))

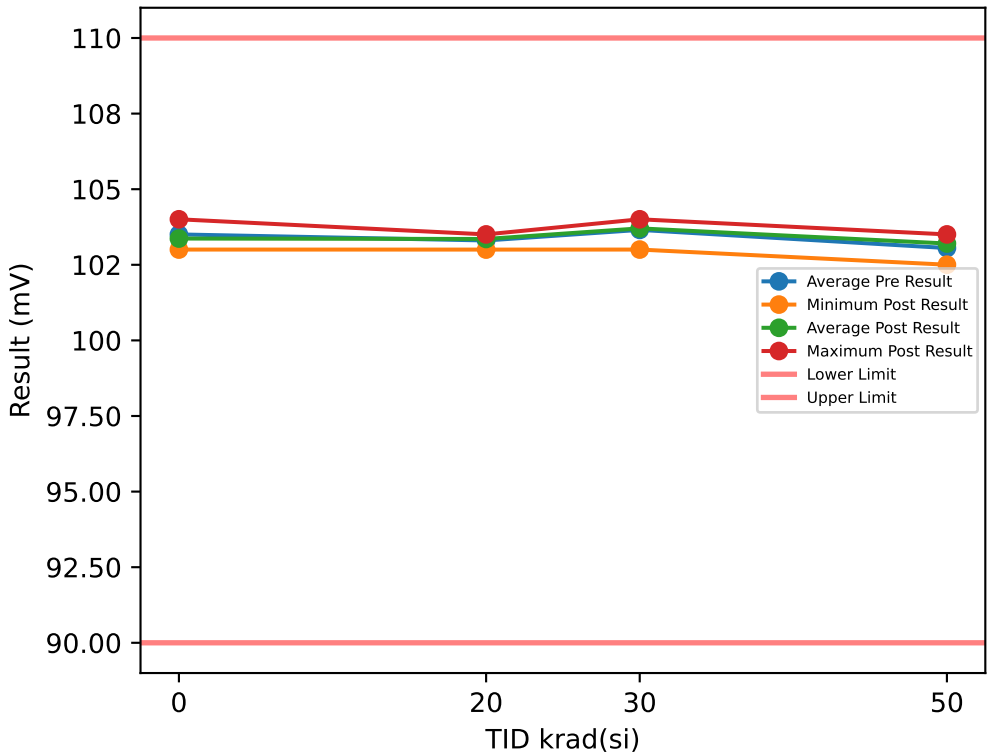
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.4998	0.5013	0.0015
516	0	CORRELATION	0.4962	0.4937	-0.0025
721	0	CORRELATION	0.4977	0.4977	0
723	0	CORRELATION	0.4987	0.4987	0
729	0	CORRELATION	0.4977	0.4972	-0.0005
990	20	Unbiased	0.4992	0.4998	0.0006
991	20	Unbiased	0.4982	0.4987	0.0005
992	20	Unbiased	0.5068	0.5088	0.002
993	20	Unbiased	0.4998	0.5013	0.0015
994	20	Unbiased	0.4977	0.4982	0.0005
995	20	Biased	0.5048	0.5033	-0.0015
996	20	Biased	0.5002	0.5023	0.0021
997	20	Biased	0.4957	0.4962	0.0005
998	20	Biased	0.4987	0.4992	0.0005
999	20	Biased	0.4972	0.4972	0
1020	30	Unbiased	0.4998	0.5002	0.0004
1021	30	Unbiased	0.4937	0.4942	0.0005
1022	30	Unbiased	0.4927	0.4937	0.001
1023	30	Unbiased	0.5063	0.5058	-0.0005
1024	30	Unbiased	0.5053	0.5063	0.001
1025	30	Biased	0.5088	0.5078	-0.001
1026	30	Biased	0.5008	0.5018	0.001
1027	30	Biased	0.4992	0.5028	0.0036
1028	30	Biased	0.5113	0.5113	0
1029	30	Biased	0.4967	0.4967	0
1030	50	Unbiased	0.4998	0.5002	0.0004
1031	50	Unbiased	0.5068	0.5073	0.0005
1032	50	Unbiased	0.4998	0.4972	-0.0026
1033	50	Unbiased	0.4942	0.4957	0.0015
1034	50	Unbiased	0.4998	0.4992	-0.0006
1035	50	Biased-84Hr-Anneal	0.5068	0.5068	0
1036	50	Biased-84Hr-Anneal	0.4967	0.4972	0.0005
1037	50	Biased-84Hr-Anneal	0.4917	0.4927	0.001
1038	50	Biased-84Hr-Anneal	0.4977	0.4892	-0.0085
1039	50	Biased-84Hr-Anneal	0.4907	0.4977	0.007

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	0.4962	0.49802	0.4998	0.0013368	0.4937	0.49772	0.5013	0.0027481	-0.0025	-0.0003	0.0015	0.0014405
20	0.4957	0.49983	0.5068	0.0034361	0.4962	0.5005	0.5088	0.0036621	-0.0015	0.00067	0.0021	0.0010425
30	0.4927	0.50146	0.5113	0.0062962	0.4937	0.50206	0.5113	0.0059139	-0.001	0.0006	0.0036	0.0012481
50	0.4907	0.4984	0.5068	0.0054995	0.4892	0.49832	0.5073	0.0055914	-0.0085	-8e-05	0.007	0.0038328

Device Test: 16.7 THRESHOLD|HYST/FAULT/5////@FAULT_VTH_HYST

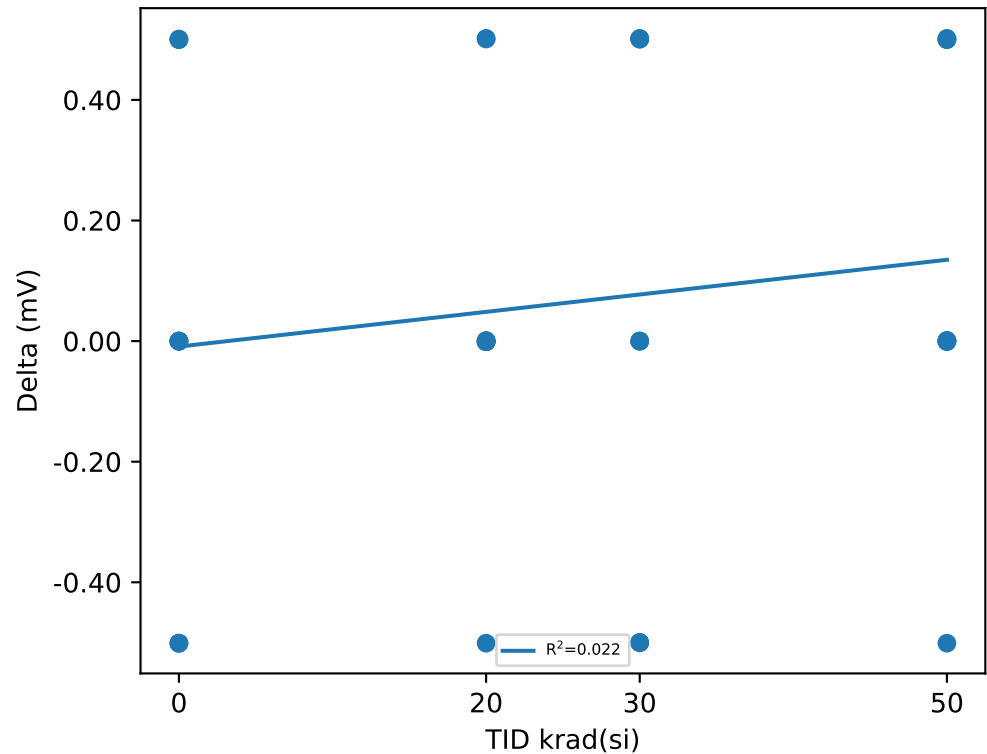
TID vs Result Stats



Test Results (Lower Limit = 90.0, Upper Limit = 110.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	104	103.5	-0.501
516	0	CORRELATION	103	103.5	0.501
721	0	CORRELATION	104	104	0
723	0	CORRELATION	103.5	103.5	0
729	0	CORRELATION	103	103.5	0.5
990	20	Unbiased	103	103	-0.001
991	20	Unbiased	103.5	103.5	0.001
992	20	Unbiased	103	103	0
993	20	Unbiased	103	103.5	0.501
994	20	Unbiased	103.5	103.5	-0.001
995	20	Biased	103	103	0
996	20	Biased	103.5	103.5	-0.001
997	20	Biased	103	103.5	0.502
998	20	Biased	104	103.5	-0.501
999	20	Biased	103.5	103.5	0
1020	30	Unbiased	103	103.5	0.502
1021	30	Unbiased	104	104	0
1022	30	Unbiased	103.5	104	0.501
1023	30	Unbiased	103.5	104	0.501
1024	30	Unbiased	104.5	104	-0.5
1025	30	Biased	103.5	104	0.501
1026	30	Biased	103.5	103	-0.5
1027	30	Biased	104	103.5	-0.5
1028	30	Biased	103.5	103.5	0
1029	30	Biased	103.5	103.5	0
1030	50	Unbiased	103	103.5	0.502
1031	50	Unbiased	103	103.5	0.5
1032	50	Unbiased	103	103.5	0.501
1033	50	Unbiased	103	102.5	-0.501
1034	50	Unbiased	103	103	0.001
1035	50	Biased-84Hr-Anneal	103	103	0
1036	50	Biased-84Hr-Anneal	103	103	-0.001
1037	50	Biased-84Hr-Anneal	103	103	0.001
1038	50	Biased-84Hr-Anneal	103	103.5	0.5
1039	50	Biased-84Hr-Anneal	103.5	103.5	0

TID vs Post - Pre Exposure Delta

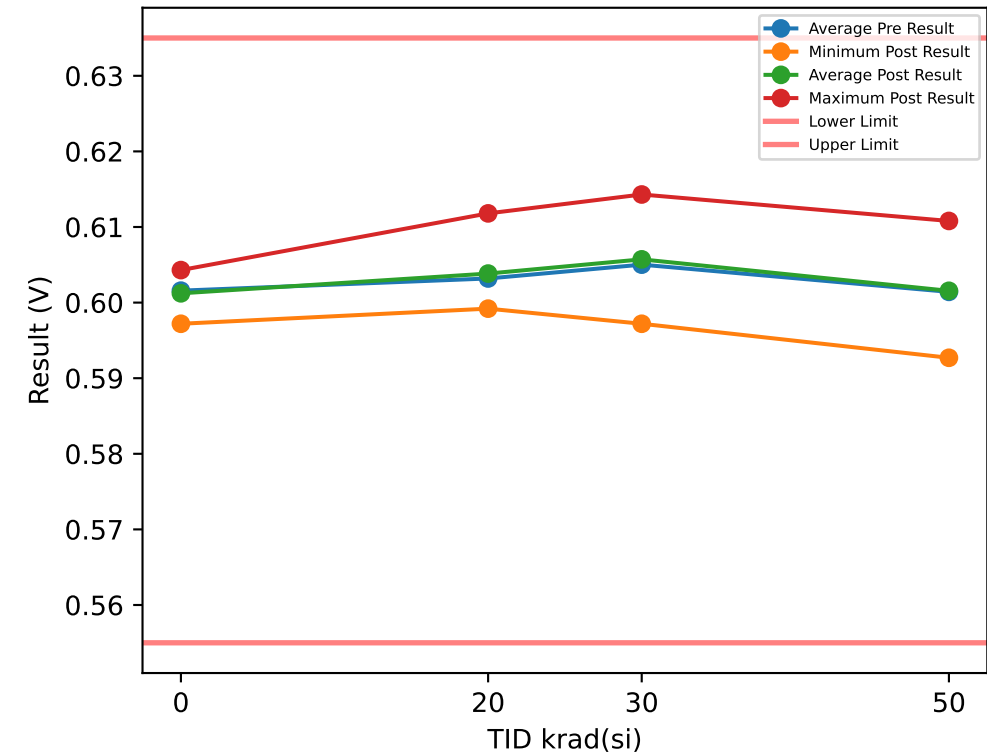


Test Statistics (mV)

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	103	103.5	104	0.5005	103.5	103.6	104	0.22383	-0.501	0.1	0.501	0.41893
20	103	103.3	104	0.35014	103	103.35	103.5	0.24182	-0.501	0.05	0.502	0.28461
30	103	103.65	104.5	0.41223	103	103.7	104	0.34995	-0.5	0.0505	0.502	0.43837
50	103	103.05	103.5	0.15857	102.5	103.2	103.5	0.35008	-0.501	0.1503	0.502	0.33799

Device Test: 16.9 THRESHOLD|RISE/FAULT/12////@FAULT_VTH_RISING

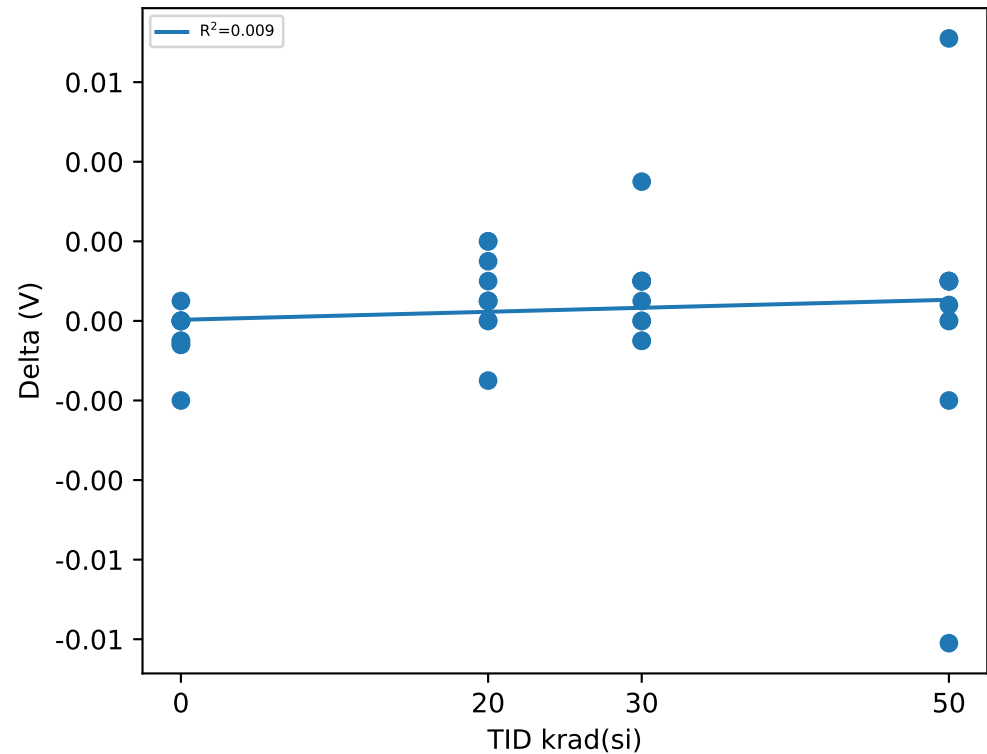
TID vs Result Stats



Test Results (Lower Limit = 0.555, Upper Limit = 0.635 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6038	0.6043	0.0005
516	0	CORRELATION	0.5992	0.5972	-0.002
721	0	CORRELATION	0.6018	0.6018	0
723	0	CORRELATION	0.6023	0.6023	0
729	0	CORRELATION	0.6008	0.6008	0
990	20	Unbiased	0.6023	0.6033	0.001
991	20	Unbiased	0.6018	0.6023	0.0005
992	20	Unbiased	0.6098	0.6118	0.002
993	20	Unbiased	0.6028	0.6043	0.0015
994	20	Unbiased	0.6013	0.6018	0.0005
995	20	Biased	0.6078	0.6063	-0.0015
996	20	Biased	0.6038	0.6058	0.002
997	20	Biased	0.5987	0.5992	0.0005
998	20	Biased	0.6028	0.6028	0
999	20	Biased	0.6008	0.6008	0
1020	30	Unbiased	0.6028	0.6038	0.001
1021	30	Unbiased	0.5977	0.5982	0.0005
1022	30	Unbiased	0.5962	0.5972	0.001
1023	30	Unbiased	0.6098	0.6098	0
1024	30	Unbiased	0.6093	0.6103	0.001
1025	30	Biased	0.6123	0.6118	-0.0005
1026	30	Biased	0.6043	0.6053	0.001
1027	30	Biased	0.6028	0.6063	0.0035
1028	30	Biased	0.6148	0.6143	-0.0005
1029	30	Biased	0.6002	0.6002	0
1030	50	Unbiased	0.6028	0.6038	0.001
1031	50	Unbiased	0.6098	0.6108	0.001
1032	50	Unbiased	0.6028	0.6008	-0.002
1033	50	Unbiased	0.5972	0.5982	0.001
1034	50	Unbiased	0.6023	0.6023	0
1035	50	Biased-84Hr-Anneal	0.6098	0.6098	0
1036	50	Biased-84Hr-Anneal	0.5998	0.6002	0.0004
1037	50	Biased-84Hr-Anneal	0.5947	0.5957	0.001
1038	50	Biased-84Hr-Anneal	0.6008	0.5927	-0.0081
1039	50	Biased-84Hr-Anneal	0.5942	0.6013	0.0071

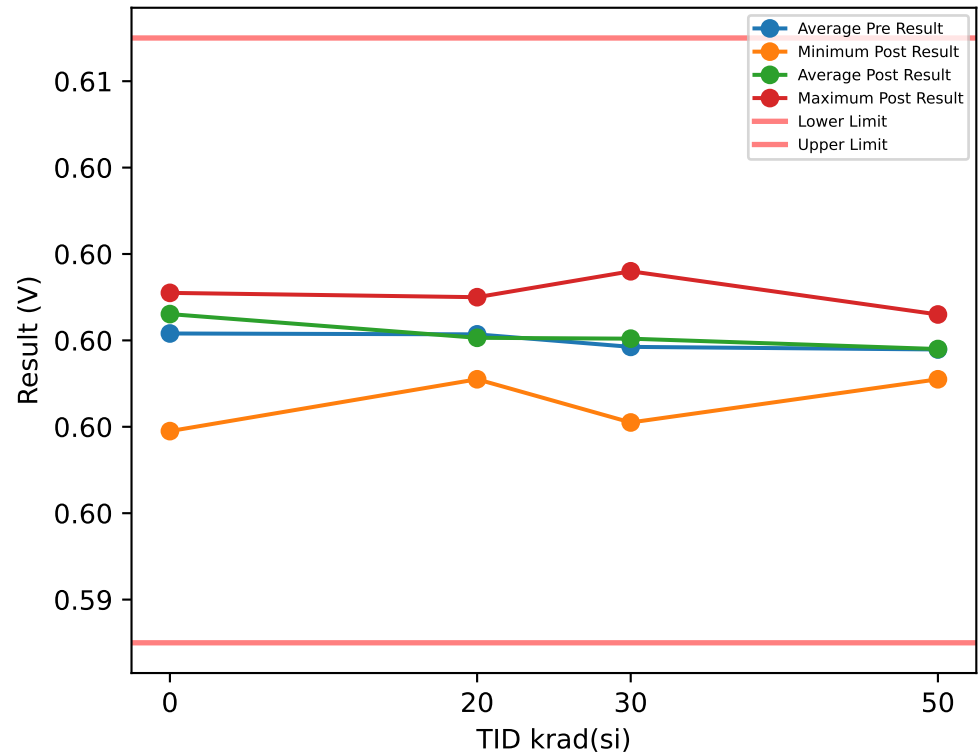
TID vs Post - Pre Exposure Delta



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	0.5992	0.60158	0.6038	0.0017152	0.5972	0.60128	0.6043	0.0026129	-0.002	-0.0003	0.0005	0.00097468
20	0.5987	0.60319	0.6098	0.0032963	0.5992	0.60384	0.6118	0.0035299	-0.0015	0.00065	0.002	0.0010554
30	0.5962	0.60502	0.6148	0.0062787	0.5972	0.60572	0.6143	0.005888	-0.0005	0.0007	0.0035	0.0011595
50	0.5942	0.60142	0.6098	0.0054072	0.5927	0.60156	0.6108	0.0056319	-0.0081	0.00014	0.0071	0.0037116

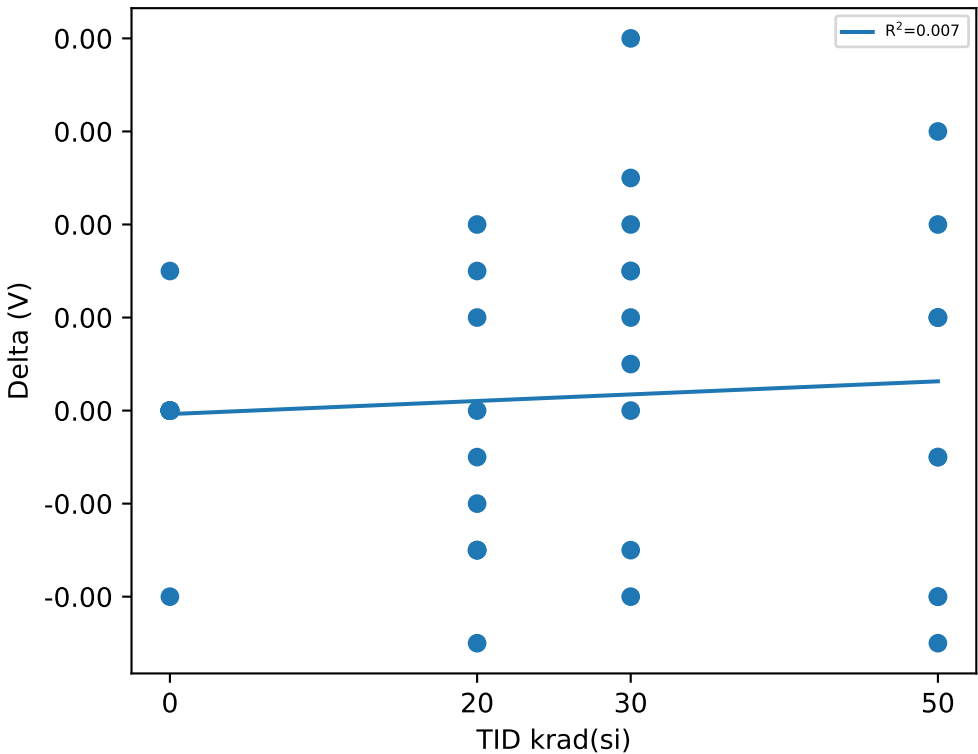
TID vs Result Stats



Test Results (Lower Limit = 0.593, Upper Limit = 0.607 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5983	0.5979	-0.0004
516	0	CORRELATION	0.6003	0.6006	0.0003
721	0	CORRELATION	0.6002	0.6002	0
723	0	CORRELATION	0.6011	0.6011	0
729	0	CORRELATION	0.6009	0.6009	0
990	20	Unbiased	0.5994	0.5996	0.0002
991	20	Unbiased	0.6001	0.5998	-0.0003
992	20	Unbiased	0.6012	0.6007	-0.0005
993	20	Unbiased	0.5998	0.6002	0.0004
994	20	Unbiased	0.5996	0.5993	-0.0003
995	20	Biased	0.6011	0.6008	-0.0003
996	20	Biased	0.5993	0.5991	-0.0002
997	20	Biased	0.6	0.6003	0.0003
998	20	Biased	0.601	0.601	0
999	20	Biased	0.5999	0.5998	-0.0001
1020	30	Unbiased	0.5987	0.5991	0.0004
1021	30	Unbiased	0.5984	0.5981	-0.0003
1022	30	Unbiased	0.6011	0.6016	0.0005
1023	30	Unbiased	0.6009	0.6009	0
1024	30	Unbiased	0.5993	0.5989	-0.0004
1025	30	Biased	0.5997	0.6005	0.0008
1026	30	Biased	0.6008	0.6009	0.0001
1027	30	Biased	0.6002	0.6004	0.0002
1028	30	Biased	0.6007	0.601	0.0003
1029	30	Biased	0.5987	0.599	0.0003
1030	50	Unbiased	0.5996	0.5998	0.0002
1031	50	Unbiased	0.6001	0.5996	-0.0005
1032	50	Unbiased	0.5993	0.5995	0.0002
1033	50	Unbiased	0.6003	0.5999	-0.0004
1034	50	Unbiased	0.6	0.5999	-0.0001
1035	50	Biased-84Hr-Anneal	0.5995	0.6001	0.0006
1036	50	Biased-84Hr-Anneal	0.6002	0.6006	0.0004
1037	50	Biased-84Hr-Anneal	0.6004	0.6003	-0.0001
1038	50	Biased-84Hr-Anneal	0.5996	0.5992	-0.0004
1039	50	Biased-84Hr-Anneal	0.5989	0.5991	0.0002

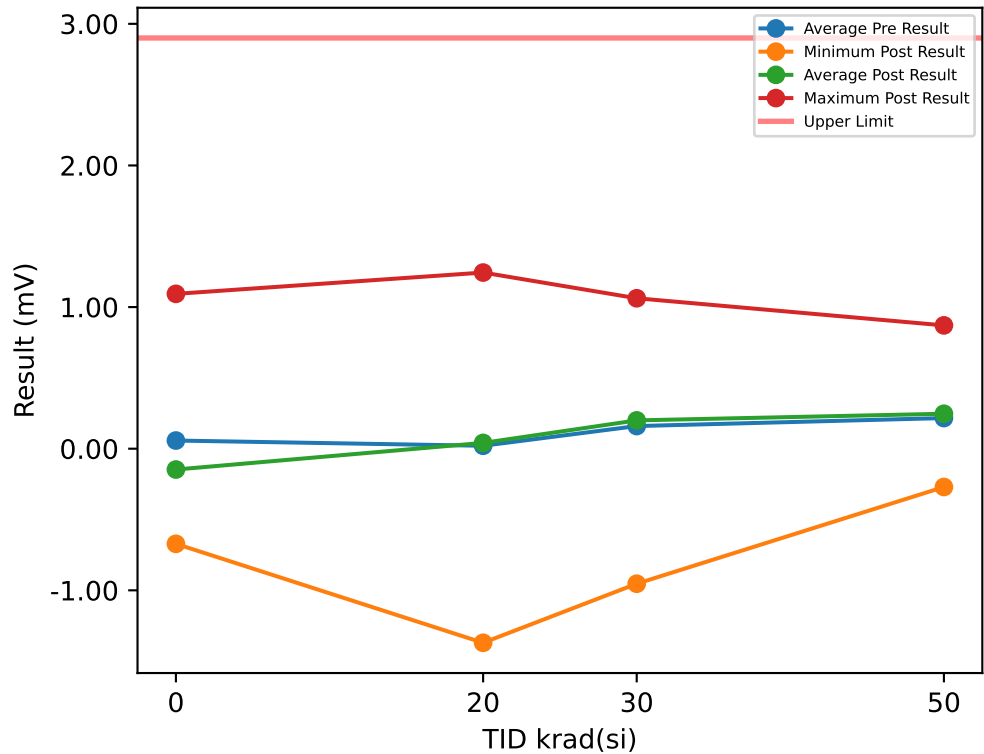
TID vs Post - Pre Exposure Delta



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	0.5983	0.60016	0.6011	0.0011082	0.5979	0.60014	0.6011	0.0012973	-0.0004	-2e-05	0.0003	0.000249
20	0.5993	0.60014	0.6012	0.00070899	0.5991	0.60006	0.601	0.0006467	-0.0005	-8e-05	0.0004	0.0002974
30	0.5984	0.59985	0.6011	0.0010266	0.5981	0.60004	0.6016	0.0011645	-0.0004	0.00019	0.0008	0.0003604
50	0.5989	0.59979	0.6004	0.00048637	0.5991	0.5998	0.6006	0.00046904	-0.0005	1e-05	0.0006	0.00036953

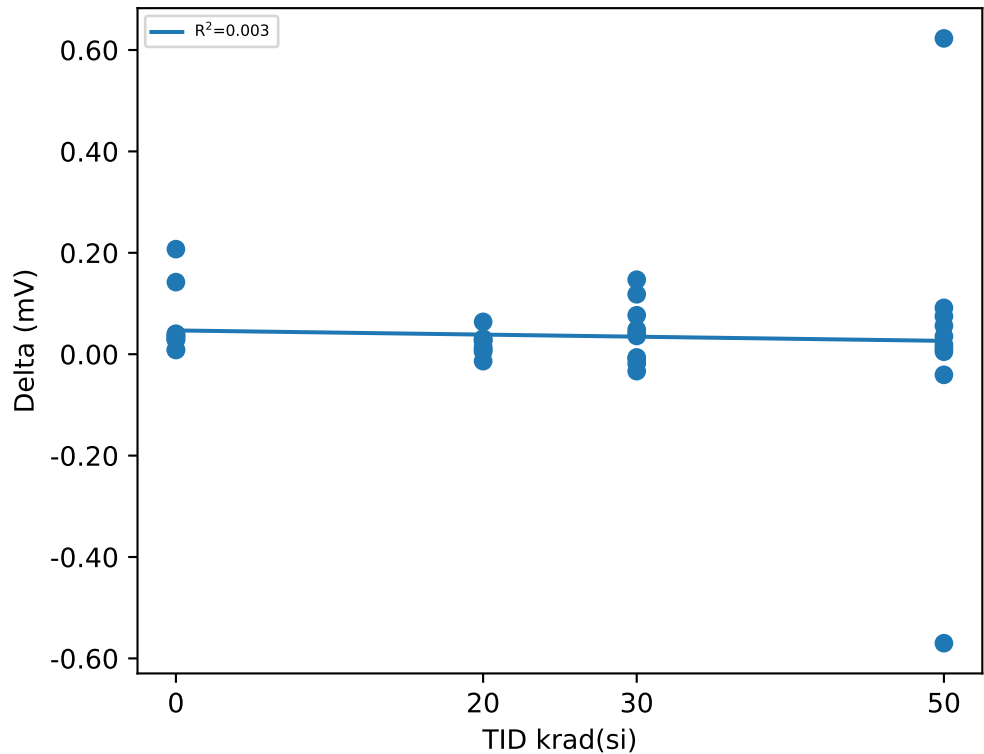
TID vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.8862	1.0934	0.2072
516	0	CORRELATION	0.3732	0.5154	0.1422
721	0	CORRELATION	-0.1345	-0.1066	0.0279
723	0	CORRELATION	-0.1351	-0.1266	0.0085
729	0	CORRELATION	-0.7016	-0.6664	0.0352
990	20	Unbiased	1.18	1.2438	0.0638
991	20	Unbiased	-0.4086	-0.3814	0.0272
992	20	Unbiased	-0.6951	-0.6902	0.0049
993	20	Unbiased	0.0683	0.0991	0.0308
994	20	Unbiased	0.8412	0.856	0.0148
995	20	Biased	-1.3999	-1.3705	0.0294
996	20	Biased	0.5151	0.5405	0.0254
997	20	Biased	-0.1126	-0.1263	-0.0137
998	20	Biased	-0.1509	-0.1432	0.0077
999	20	Biased	0.3704	0.3815	0.0111
1020	30	Unbiased	0.8307	0.8123	-0.0184
1021	30	Unbiased	0.9154	1.0623	0.1469
1022	30	Unbiased	-0.3822	-0.4156	-0.0334
1023	30	Unbiased	-1.002	-0.9534	0.0486
1024	30	Unbiased	0.0752	0.1172	0.042
1025	30	Biased	-0.0441	0.0327	0.0768
1026	30	Biased	-0.1513	-0.0331	0.1182
1027	30	Biased	0.4913	0.4849	-0.0064
1028	30	Biased	0.045	0.036	-0.009
1029	30	Biased	0.8206	0.8566	0.036
1030	50	Unbiased	0.9115	0.8708	-0.0407
1031	50	Unbiased	-0.3057	-0.2704	0.0353
1032	50	Unbiased	-0.1841	-0.1733	0.0108
1033	50	Unbiased	0.5439	0.5488	0.0049
1034	50	Unbiased	0.1012	0.1573	0.0561
1035	50	Biased-84Hr-Anneal	-0.1006	-0.0258	0.0748
1036	50	Biased-84Hr-Anneal	0.3106	0.402	0.0914
1037	50	Biased-84Hr-Anneal	0.2904	0.309	0.0186
1038	50	Biased-84Hr-Anneal	-0.0058	0.6171	0.6229
1039	50	Biased-84Hr-Anneal	0.6024	0.0324	-0.57

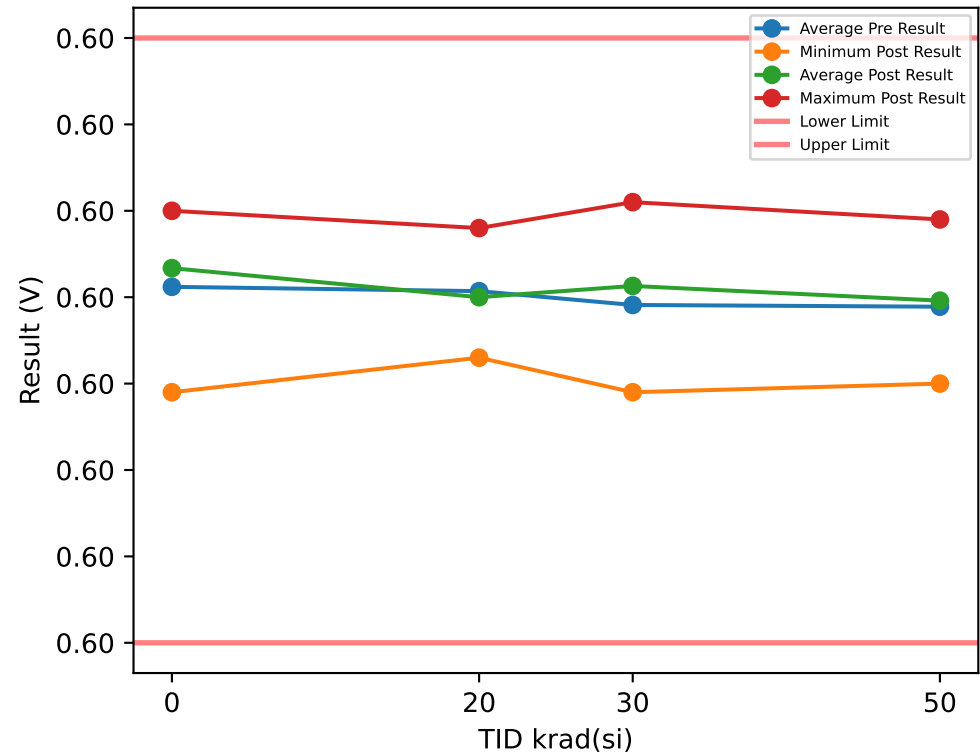
TID vs Post - Pre Exposure Delta



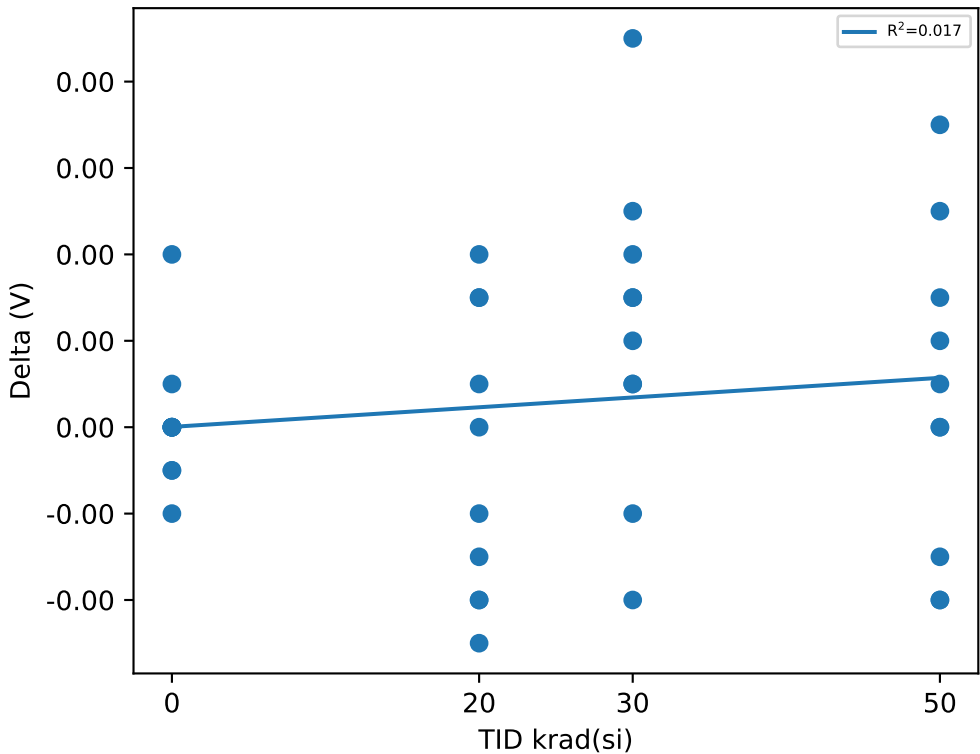
Test Statistics (mV)

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	-0.7016	0.05764	0.8862	0.59929	-0.6664	0.14184	1.0934	0.67677	0.0085	0.0842	0.2072	0.086305
20	-1.3999	0.02079	1.18	0.75632	-1.3705	0.04093	1.2438	0.76355	-0.0137	0.02014	0.0638	0.020617
30	-1.002	0.15986	0.9154	0.6119	-0.9534	0.19999	1.0623	0.61969	-0.0334	0.04013	0.1469	0.059947
50	-0.3057	0.21638	0.9115	0.38728	-0.2704	0.24679	0.8708	0.36787	-0.57	0.03041	0.6229	0.28366

TID vs Result Stats



TID vs Post - Pre Exposure Delta



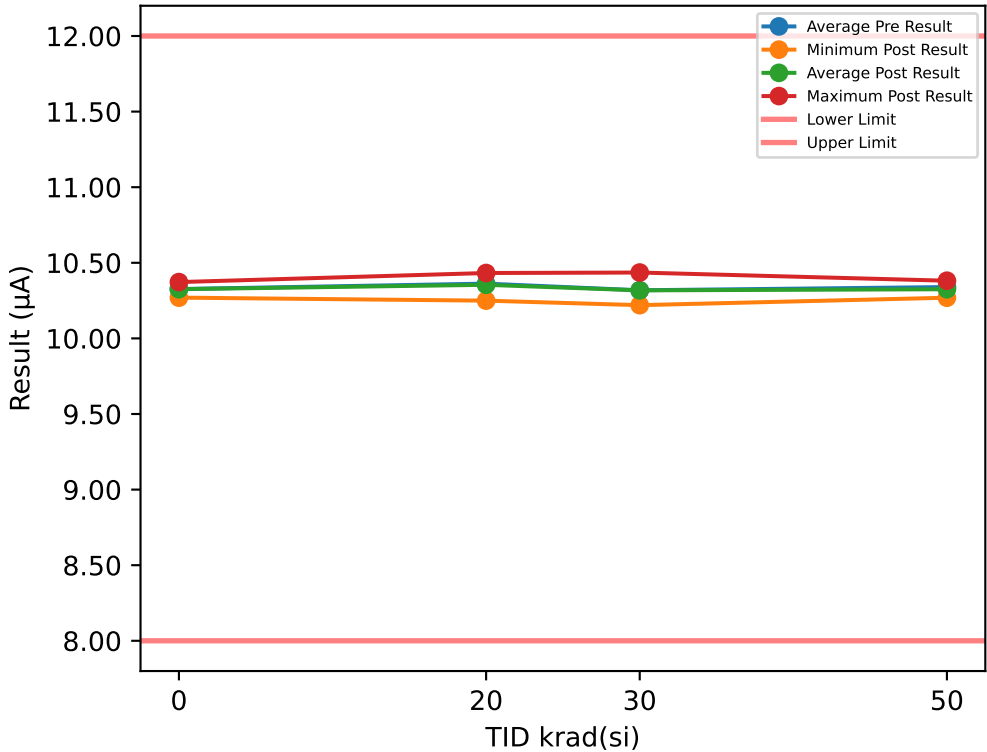
Test Results (Lower Limit = 0.596, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5991	0.5989	-0.0002
516	0	CORRELATION	0.6006	0.601	0.0004
721	0	CORRELATION	0.5999	0.6	0.0001
723	0	CORRELATION	0.6009	0.6008	-0.0001
729	0	CORRELATION	0.6001	0.6001	0
990	20	Unbiased	0.6005	0.6008	0.0003
991	20	Unbiased	0.5997	0.5993	-0.0004
992	20	Unbiased	0.6004	0.5999	-0.0005
993	20	Unbiased	0.5997	0.6001	0.0004
994	20	Unbiased	0.6004	0.6	-0.0004
995	20	Biased	0.5996	0.5993	-0.0003
996	20	Biased	0.5998	0.5996	-0.0002
997	20	Biased	0.5998	0.6001	0.0003
998	20	Biased	0.6007	0.6008	0.0001
999	20	Biased	0.6001	0.6001	0
1020	30	Unbiased	0.5995	0.5998	0.0003
1021	30	Unbiased	0.5992	0.599	-0.0002
1022	30	Unbiased	0.6006	0.6011	0.0005
1023	30	Unbiased	0.5998	0.5999	0.0001
1024	30	Unbiased	0.5993	0.5989	-0.0004
1025	30	Biased	0.5995	0.6004	0.0009
1026	30	Biased	0.6006	0.6007	0.0001
1027	30	Biased	0.6006	0.6008	0.0002
1028	30	Biased	0.6006	0.6009	0.0003
1029	30	Biased	0.5994	0.5998	0.0004
1030	50	Unbiased	0.6004	0.6005	0.0001
1031	50	Unbiased	0.5997	0.5993	-0.0004
1032	50	Unbiased	0.599	0.5993	0.0003
1033	50	Unbiased	0.6007	0.6004	-0.0003
1034	50	Unbiased	0.6	0.6	0
1035	50	Biased-84Hr-Anneal	0.5993	0.6	0.0007
1036	50	Biased-84Hr-Anneal	0.6004	0.6009	0.0005
1037	50	Biased-84Hr-Anneal	0.6005	0.6005	0
1038	50	Biased-84Hr-Anneal	0.5995	0.5997	0.0002
1039	50	Biased-84Hr-Anneal	0.5994	0.599	-0.0004

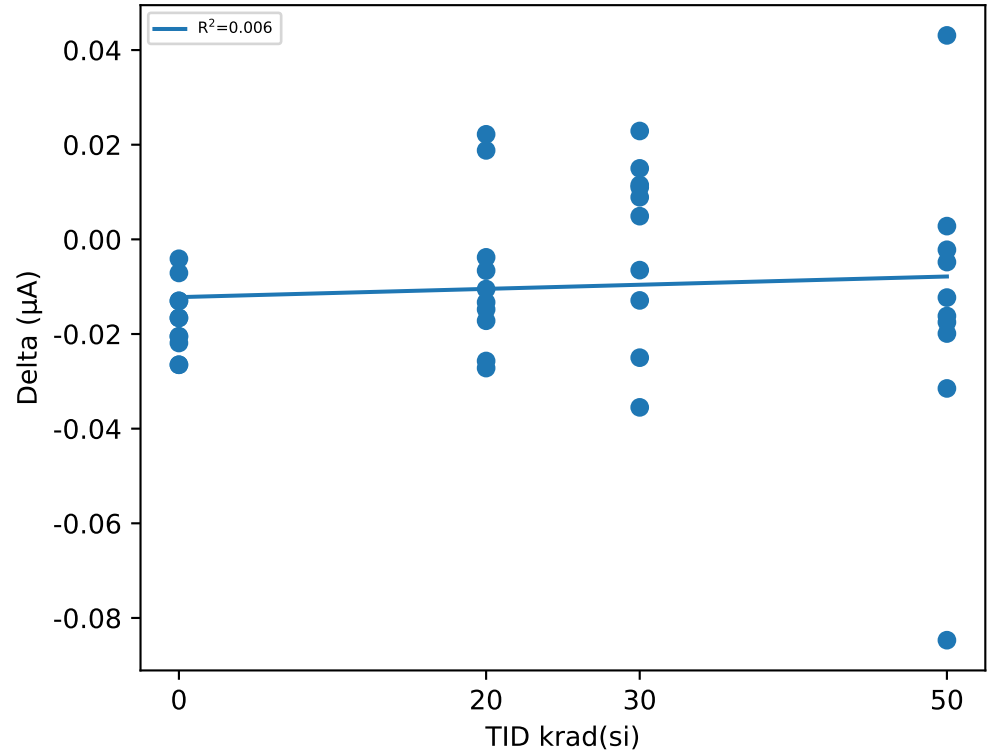
Test Statistics (V)

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	0.5991	0.60012	0.6009	0.00069426	0.5989	0.60016	0.601	0.00082644	-0.0002	4e-05	0.0004	0.00023022
20	0.5996	0.60007	0.6007	0.00040014	0.5993	0.6	0.6008	0.00052281	-0.0005	-7e-05	0.0004	0.0003335
30	0.5992	0.59991	0.6006	0.00061364	0.5989	0.60013	0.6011	0.00077753	-0.0004	0.00022	0.0009	0.00036148
50	0.599	0.59989	0.6007	0.00058963	0.599	0.59996	0.6009	0.00062574	-0.0004	7e-05	0.0007	0.00037133

TID vs Result Stats



TID vs Post - Pre Exposure Delta



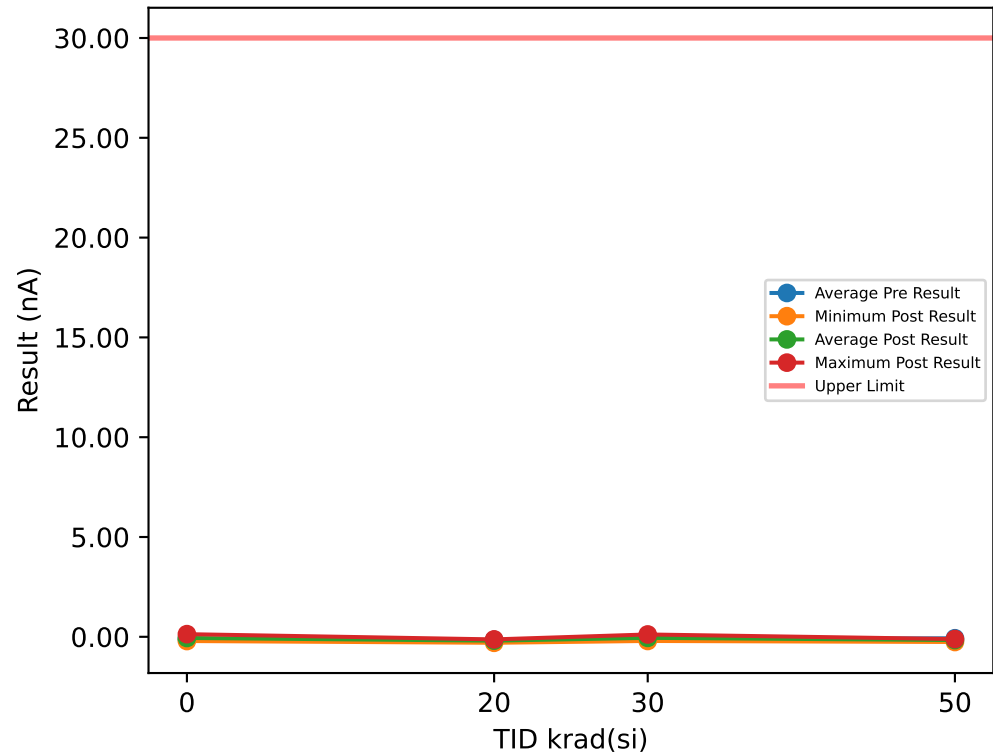
Test Results (Lower Limit = 8.0, Upper Limit = 12.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	10.288	10.281	-0.0071
516	0	CORRELATION	10.359	10.337	-0.0219
721	0	CORRELATION	10.274	10.27	-0.0041
723	0	CORRELATION	10.389	10.363	-0.0265
729	0	CORRELATION	10.322	10.309	-0.013
990	20	Unbiased	10.356	10.339	-0.0172
991	20	Unbiased	10.414	10.387	-0.0272
992	20	Unbiased	10.409	10.383	-0.0257
993	20	Unbiased	10.38	10.402	0.0222
994	20	Unbiased	10.428	10.424	-0.0038
995	20	Biased	10.348	10.338	-0.0105
996	20	Biased	10.263	10.25	-0.0133
997	20	Biased	10.259	10.278	0.0188
998	20	Biased	10.439	10.432	-0.0066
999	20	Biased	10.325	10.311	-0.0148
1020	30	Unbiased	10.227	10.232	0.0049
1021	30	Unbiased	10.262	10.274	0.0115
1022	30	Unbiased	10.413	10.436	0.0229
1023	30	Unbiased	10.284	10.295	0.011
1024	30	Unbiased	10.385	10.349	-0.0355
1025	30	Biased	10.311	10.326	0.015
1026	30	Biased	10.327	10.336	0.0089
1027	30	Biased	10.332	10.319	-0.0129
1028	30	Biased	10.396	10.389	-0.0065
1029	30	Biased	10.245	10.22	-0.025
1030	50	Unbiased	10.398	10.382	-0.0162
1031	50	Unbiased	10.327	10.31	-0.0175
1032	50	Unbiased	10.368	10.356	-0.0123
1033	50	Unbiased	10.374	10.354	-0.0199
1034	50	Unbiased	10.391	10.359	-0.0315
1035	50	Biased-84Hr-Anneal	10.297	10.292	-0.0048
1036	50	Biased-84Hr-Anneal	10.332	10.33	-0.0022
1037	50	Biased-84Hr-Anneal	10.283	10.286	0.0028
1038	50	Biased-84Hr-Anneal	10.354	10.269	-0.0847
1039	50	Biased-84Hr-Anneal	10.271	10.314	0.0431

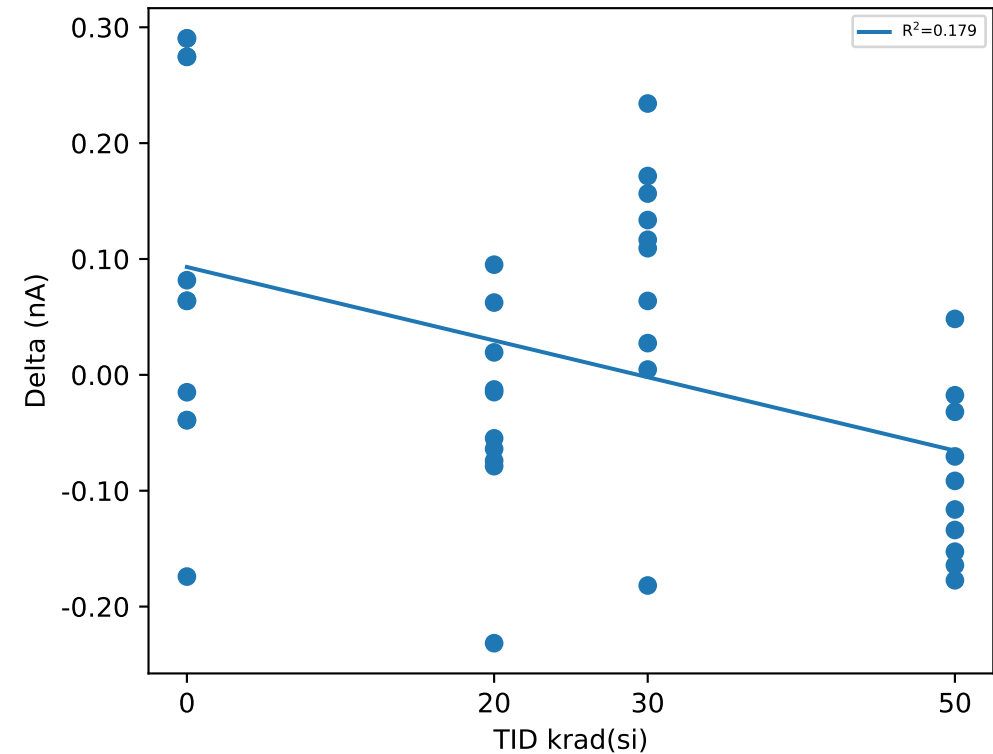
Test Statistics (µA)

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	10.274	10.326	10.389	0.048123	10.27	10.312	10.363	0.038609	-0.0265	-0.01452	-0.0041	0.0095384
20	10.259	10.362	10.439	0.064564	10.25	10.354	10.432	0.061839	-0.0272	-0.00781	0.0222	0.016656
30	10.227	10.318	10.413	0.064686	10.22	10.318	10.436	0.066491	-0.0355	-0.00057	0.0229	0.018846
50	10.271	10.339	10.398	0.044858	10.269	10.325	10.382	0.036901	-0.0847	-0.01432	0.0431	0.031842

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 30.0 (nA))

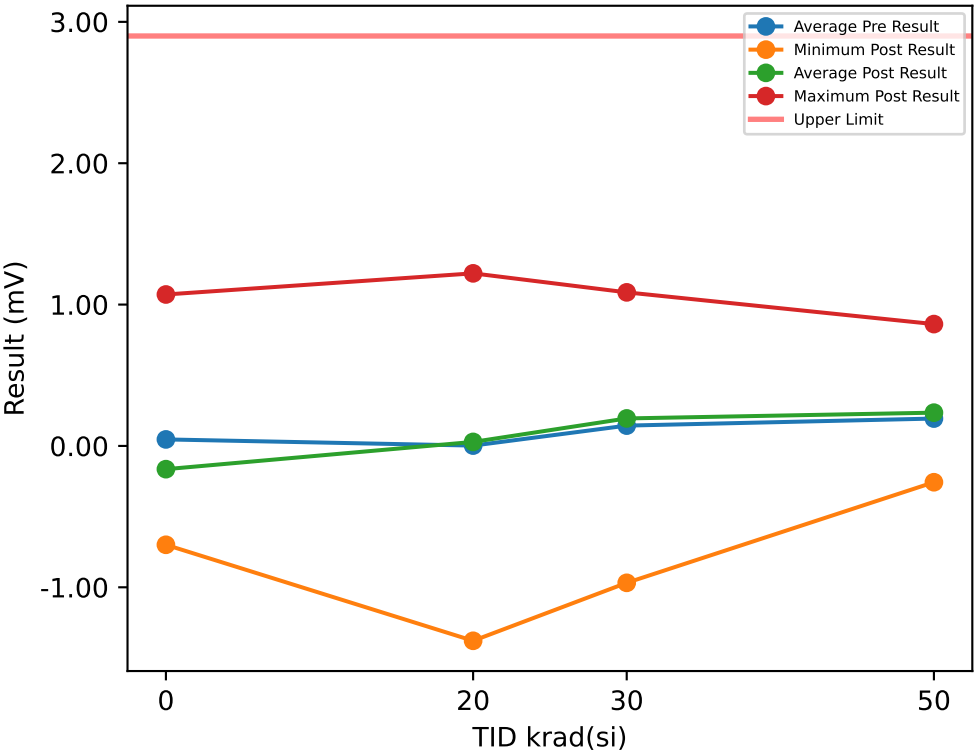
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	-0.0381	-0.2122	-0.1741
516	0	CORRELATION	-0.123	-0.138	-0.015
721	0	CORRELATION	-0.0319	0.0498	0.0817
723	0	CORRELATION	-0.1419	0.1326	0.2745
729	0	CORRELATION	-0.2386	0.0518	0.2904
990	20	Unbiased	-0.1918	-0.1294	0.0624
991	20	Unbiased	-0.0856	-0.1404	-0.0548
992	20	Unbiased	-0.0624	-0.294	-0.2316
993	20	Unbiased	-0.1505	-0.2293	-0.0788
994	20	Unbiased	-0.2355	-0.1404	0.0951
995	20	Biased	-0.1636	-0.1442	0.0194
996	20	Biased	-0.1654	-0.2293	-0.0639
997	20	Biased	-0.1598	-0.1747	-0.0149
998	20	Biased	-0.2262	-0.3003	-0.0741
999	20	Biased	-0.1386	-0.1512	-0.0126
1020	30	Unbiased	-0.1186	0.015	0.1336
1021	30	Unbiased	-0.0974	0.0591	0.1565
1022	30	Unbiased	-0.1168	0.1174	0.2342
1023	30	Unbiased	-0.0194	-0.2012	-0.1818
1024	30	Unbiased	-0.2137	-0.2091	0.0046
1025	30	Biased	-0.1074	0.0092	0.1166
1026	30	Biased	-0.06	0.1116	0.1716
1027	30	Biased	-0.2699	-0.1606	0.1093
1028	30	Biased	-0.1605	-0.0967	0.0638
1029	30	Biased	-0.2028	-0.1754	0.0274
1030	50	Unbiased	-0.0887	-0.1591	-0.0704
1031	50	Unbiased	-0.0405	-0.1567	-0.1162
1032	50	Unbiased	-0.0912	-0.1231	-0.0319
1033	50	Unbiased	-0.1887	-0.1404	0.0483
1034	50	Unbiased	-0.0512	-0.2285	-0.1773
1035	50	Biased-84Hr-Anneal	-0.1399	-0.1575	-0.0176
1036	50	Biased-84Hr-Anneal	0.0216	-0.1123	-0.1339
1037	50	Biased-84Hr-Anneal	-0.0962	-0.2605	-0.1643
1038	50	Biased-84Hr-Anneal	0.0403	-0.1123	-0.1526
1039	50	Biased-84Hr-Anneal	-0.0902	-0.1817	-0.0915

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	-0.2386	-0.1147	-0.0319	0.084975	-0.2122	-0.0232	0.1326	0.14502	-0.1741	0.0915	0.2904	0.19687
20	-0.2355	-0.15794	-0.0624	0.05447	-0.3003	-0.19332	-0.1294	0.065312	-0.2316	-0.03538	0.0951	0.090433
30	-0.2699	-0.13665	-0.0194	0.075554	-0.2091	-0.05307	0.1174	0.12995	-0.1818	0.08358	0.2342	0.11557
50	-0.1887	-0.07247	0.0403	0.06879	-0.2605	-0.16321	-0.1123	0.048847	-0.1773	-0.09074	0.0483	0.072877

Device Test: 17.2 LEVEL|STATIC/VSNSP/4.5////@EA_INPUT_OFFSET_V

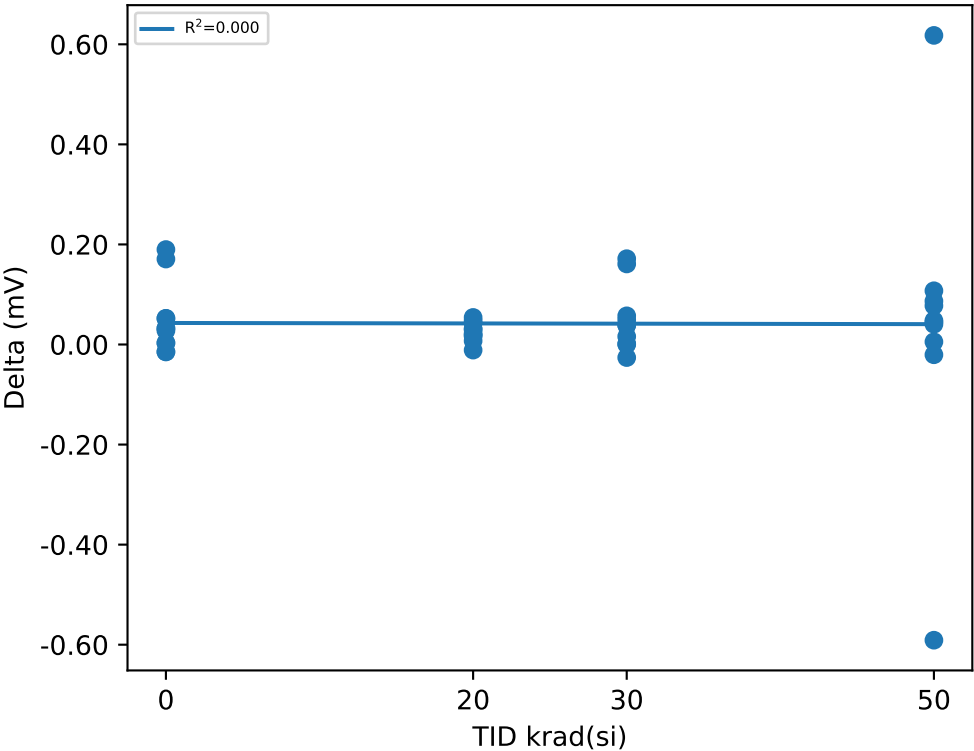
TID vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.8816	1.0714	0.1898
516	0	CORRELATION	0.3457	0.5165	0.1708
721	0	CORRELATION	-0.1393	-0.1116	0.0277
723	0	CORRELATION	-0.1259	-0.1228	0.0031
729	0	CORRELATION	-0.7316	-0.6993	0.0323
990	20	Unbiased	1.1668	1.2209	0.0541
991	20	Unbiased	-0.4063	-0.3843	0.022
992	20	Unbiased	-0.7351	-0.7053	0.0298
993	20	Unbiased	0.0335	0.0811	0.0476
994	20	Unbiased	0.8071	0.826	0.0189
995	20	Biased	-1.4099	-1.3785	0.0314
996	20	Biased	0.5132	0.5205	0.0073
997	20	Biased	-0.1213	-0.1325	-0.0112
998	20	Biased	-0.1707	-0.154	0.0167
999	20	Biased	0.3475	0.3903	0.0428
1020	30	Unbiased	0.7873	0.8033	0.016
1021	30	Unbiased	0.9149	1.0864	0.1715
1022	30	Unbiased	-0.4175	-0.4436	-0.0261
1023	30	Unbiased	-1.0176	-0.9684	0.0492
1024	30	Unbiased	0.0526	0.1099	0.0573
1025	30	Biased	-0.0226	0.0156	0.0382
1026	30	Biased	-0.1931	-0.0321	0.161
1027	30	Biased	0.4776	0.4777	0.0001
1028	30	Biased	0.0345	0.036	0.0015
1029	30	Biased	0.8219	0.8609	0.039
1030	50	Unbiased	0.8825	0.862	-0.0205
1031	50	Unbiased	-0.3344	-0.2568	0.0776
1032	50	Unbiased	-0.234	-0.1935	0.0405
1033	50	Unbiased	0.5261	0.5315	0.0054
1034	50	Unbiased	0.0745	0.1224	0.0479
1035	50	Biased-84Hr-Anneal	-0.1283	-0.0209	0.1074
1036	50	Biased-84Hr-Anneal	0.3004	0.3872	0.0868
1037	50	Biased-84Hr-Anneal	0.2352	0.28	0.0448
1038	50	Biased-84Hr-Anneal	-0.0012	0.6166	0.6178
1039	50	Biased-84Hr-Anneal	0.6161	0.0251	-0.591

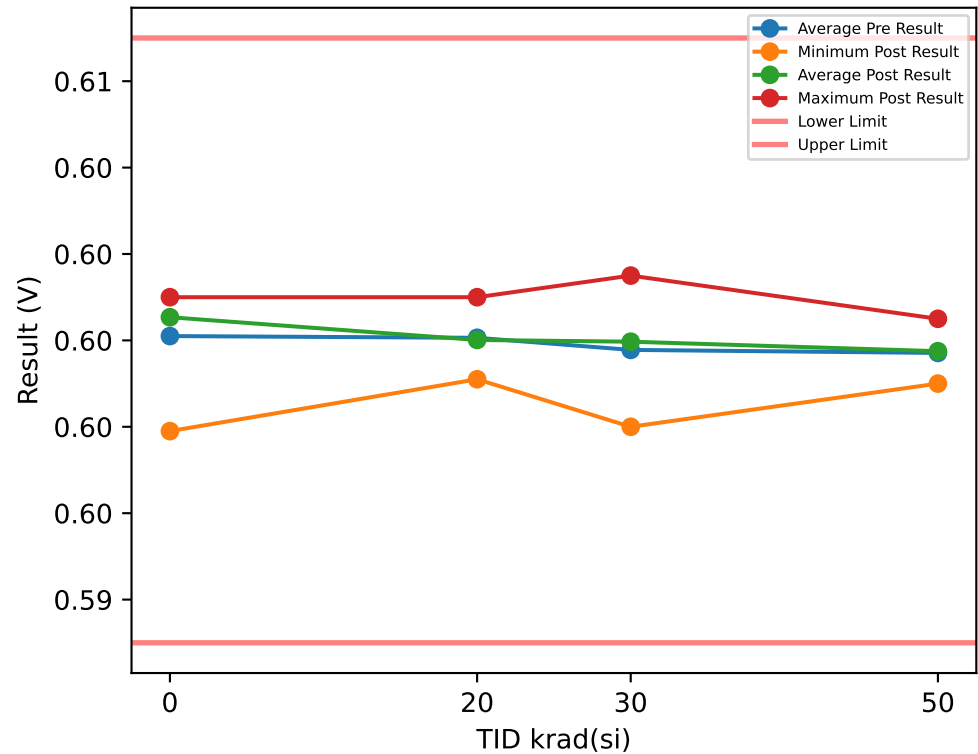
TID vs Post - Pre Exposure Delta



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	-0.7316	0.0461	0.8816	0.60345	-0.6993	0.13084	1.0714	0.67927	0.0031	0.08474	0.1898	0.088194
20	-1.4099	0.00248	1.1668	0.75536	-1.3785	0.02842	1.2209	0.75875	-0.0112	0.02594	0.0541	0.019631
30	-1.0176	0.1438	0.9149	0.61511	-0.9684	0.19457	1.0864	0.62942	-0.0261	0.05077	0.1715	0.065981
50	-0.3344	0.19369	0.8825	0.39358	-0.2568	0.23536	0.862	0.36508	-0.591	0.04167	0.6178	0.28773

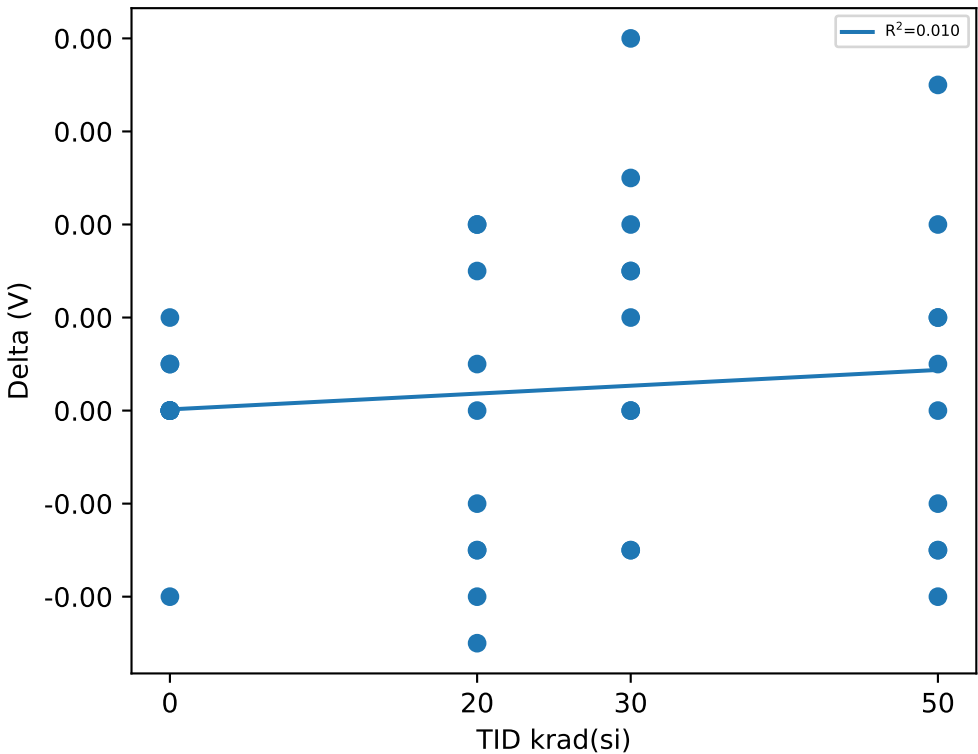
TID vs Result Stats



Test Results (Lower Limit = 0.593, Upper Limit = 0.607 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5983	0.5979	-0.0004
516	0	CORRELATION	0.6003	0.6005	0.0002
721	0	CORRELATION	0.6001	0.6001	0
723	0	CORRELATION	0.601	0.601	0
729	0	CORRELATION	0.6008	0.6009	0.0001
990	20	Unbiased	0.5993	0.5996	0.0003
991	20	Unbiased	0.6001	0.5997	-0.0004
992	20	Unbiased	0.6011	0.6006	-0.0005
993	20	Unbiased	0.5997	0.6001	0.0004
994	20	Unbiased	0.5995	0.5992	-0.0003
995	20	Biased	0.601	0.6007	-0.0003
996	20	Biased	0.5993	0.5991	-0.0002
997	20	Biased	0.5999	0.6003	0.0004
998	20	Biased	0.6009	0.601	0.0001
999	20	Biased	0.5998	0.5998	0
1020	30	Unbiased	0.5987	0.5991	0.0004
1021	30	Unbiased	0.5983	0.598	-0.0003
1022	30	Unbiased	0.601	0.6015	0.0005
1023	30	Unbiased	0.6009	0.6009	0
1024	30	Unbiased	0.5992	0.5989	-0.0003
1025	30	Biased	0.5996	0.6004	0.0008
1026	30	Biased	0.6008	0.6008	0
1027	30	Biased	0.6001	0.6003	0.0002
1028	30	Biased	0.6006	0.6009	0.0003
1029	30	Biased	0.5986	0.5989	0.0003
1030	50	Unbiased	0.5995	0.5997	0.0002
1031	50	Unbiased	0.6	0.5996	-0.0004
1032	50	Unbiased	0.5993	0.5994	0.0001
1033	50	Unbiased	0.6002	0.5999	-0.0003
1034	50	Unbiased	0.6	0.5998	-0.0002
1035	50	Biased-84Hr-Anneal	0.5994	0.6001	0.0007
1036	50	Biased-84Hr-Anneal	0.6001	0.6005	0.0004
1037	50	Biased-84Hr-Anneal	0.6003	0.6003	0
1038	50	Biased-84Hr-Anneal	0.5995	0.5992	-0.0003
1039	50	Biased-84Hr-Anneal	0.5988	0.599	0.0002

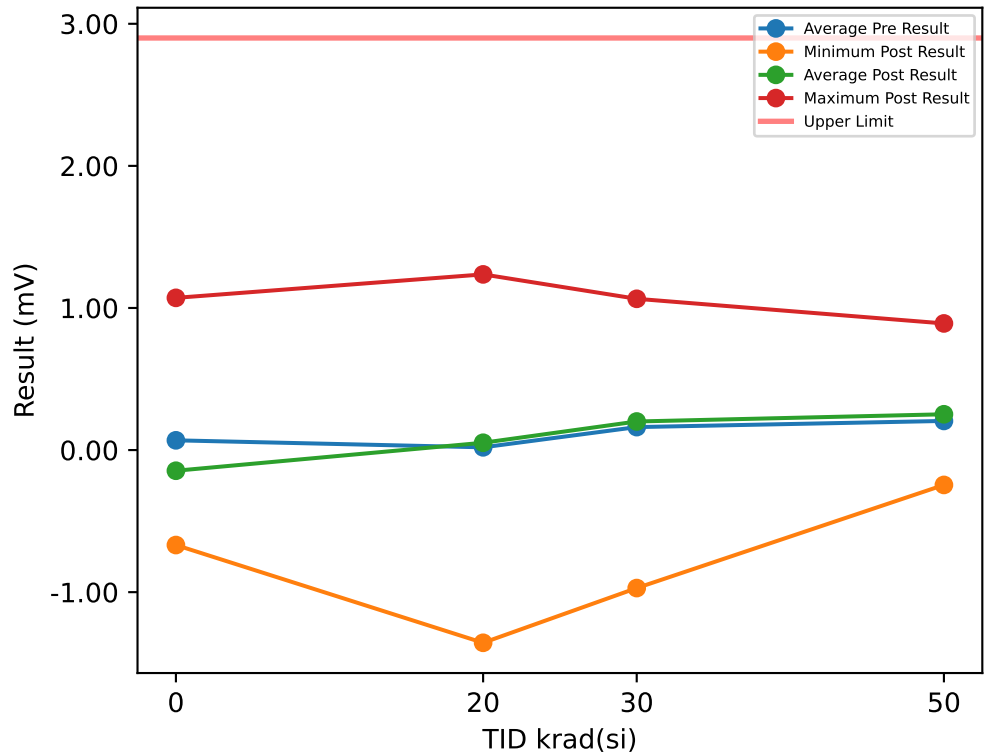
TID vs Post - Pre Exposure Delta



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	0.5983	0.6001	0.601	0.00107	0.5979	0.60008	0.601	0.0012696	-0.0004	-2e-05	0.0002	0.00022804
20	0.5993	0.60006	0.6011	0.00069634	0.5991	0.60001	0.601	0.00064023	-0.0005	-5e-05	0.0004	0.00033747
30	0.5983	0.59978	0.601	0.0010369	0.598	0.59997	0.6015	0.0011538	-0.0003	0.00019	0.0008	0.00034785
50	0.5988	0.59971	0.6003	0.00048178	0.599	0.59975	0.6005	0.00047434	-0.0004	4e-05	0.0007	0.00035024

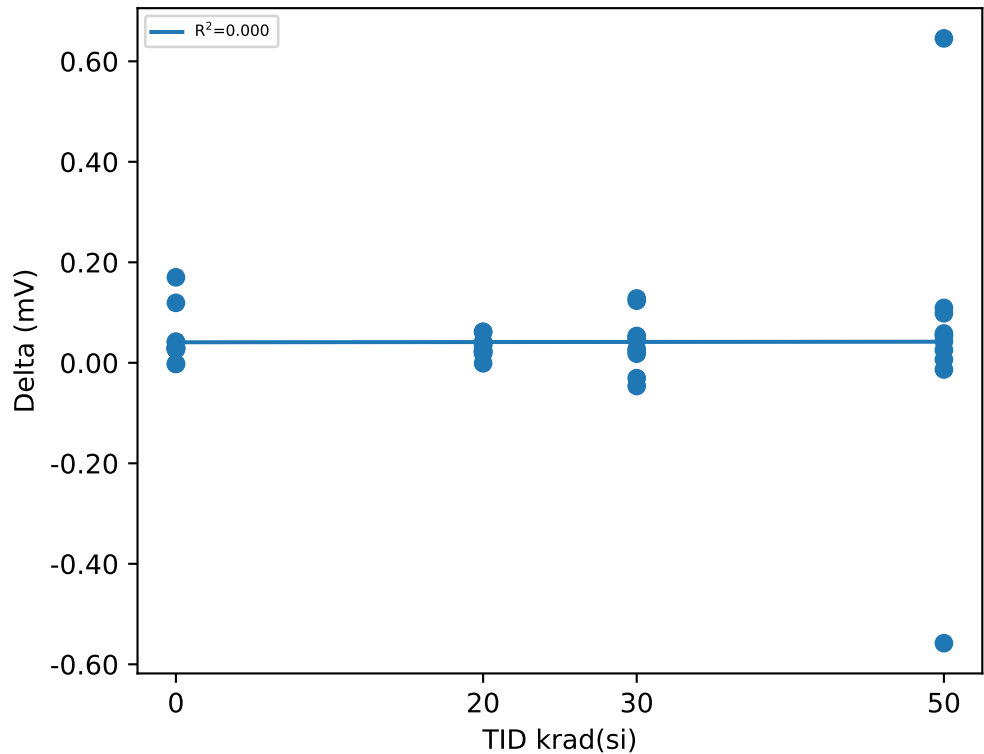
TID vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.9011	1.0712	0.1701
516	0	CORRELATION	0.3944	0.5137	0.1193
721	0	CORRELATION	-0.1343	-0.1071	0.0272
723	0	CORRELATION	-0.1224	-0.1245	-0.0021
729	0	CORRELATION	-0.6961	-0.6684	0.0277
990	20	Unbiased	1.199	1.2363	0.0373
991	20	Unbiased	-0.3895	-0.3675	0.022
992	20	Unbiased	-0.7134	-0.6914	0.022
993	20	Unbiased	0.0426	0.1039	0.0613
994	20	Unbiased	0.8375	0.8559	0.0184
995	20	Biased	-1.3982	-1.3564	0.0418
996	20	Biased	0.5033	0.5651	0.0618
997	20	Biased	-0.115	-0.116	-0.001
998	20	Biased	-0.1492	-0.1257	0.0235
999	20	Biased	0.3757	0.4102	0.0345
1020	30	Unbiased	0.8377	0.8072	-0.0305
1021	30	Unbiased	0.9409	1.0645	0.1236
1022	30	Unbiased	-0.3816	-0.4278	-0.0462
1023	30	Unbiased	-0.9944	-0.9712	0.0232
1024	30	Unbiased	0.0789	0.1245	0.0456
1025	30	Biased	-0.0572	-0.0056	0.0516
1026	30	Biased	-0.1498	-0.0217	0.1281
1027	30	Biased	0.474	0.4922	0.0182
1028	30	Biased	0.035	0.0622	0.0272
1029	30	Biased	0.8329	0.8863	0.0534
1030	50	Unbiased	0.9045	0.8912	-0.0133
1031	50	Unbiased	-0.3038	-0.2454	0.0584
1032	50	Unbiased	-0.2074	-0.1648	0.0426
1033	50	Unbiased	0.5174	0.5239	0.0065
1034	50	Unbiased	0.0752	0.1289	0.0537
1035	50	Biased-84Hr-Anneal	-0.0967	0.0019	0.0986
1036	50	Biased-84Hr-Anneal	0.296	0.4052	0.1092
1037	50	Biased-84Hr-Anneal	0.2618	0.2873	0.0255
1038	50	Biased-84Hr-Anneal	0.0068	0.6524	0.6456
1039	50	Biased-84Hr-Anneal	0.5959	0.0379	-0.558

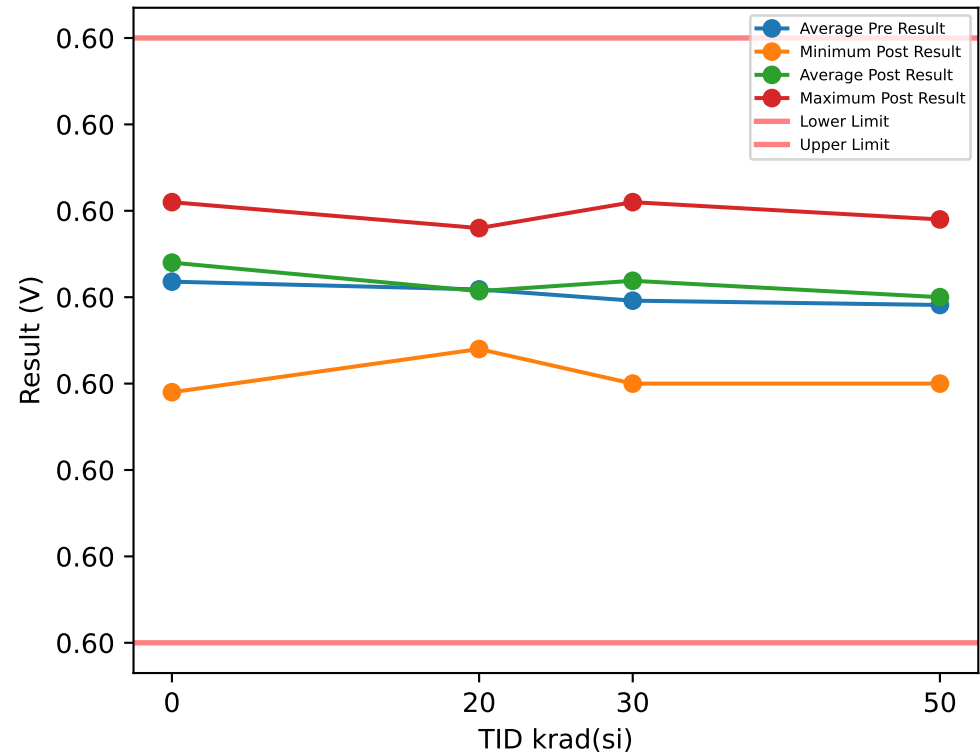
TID vs Post - Pre Exposure Delta



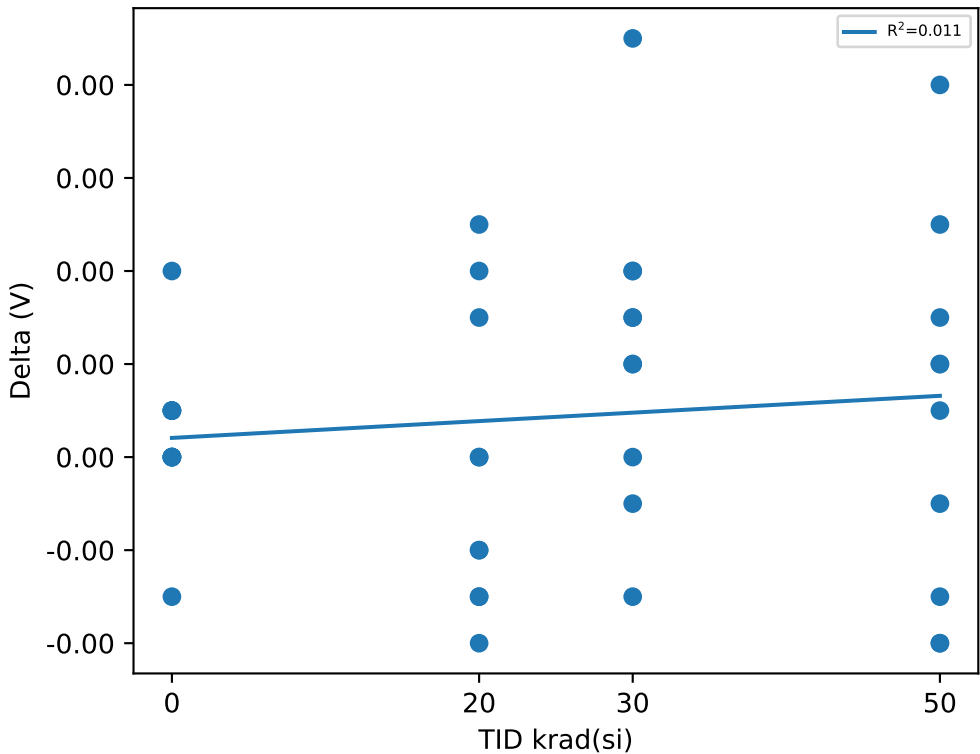
Test Statistics (mV)

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	-0.6961	0.06854	0.9011	0.60449	-0.6684	0.13698	1.0712	0.66919	-0.0021	0.06844	0.1701	0.0729
20	-1.3982	0.01928	1.199	0.75885	-1.3564	0.05144	1.2363	0.76122	-0.001	0.03216	0.0618	0.019502
30	-0.9944	0.16164	0.9409	0.6157	-0.9712	0.20106	1.0645	0.62844	-0.0462	0.03942	0.1281	0.056189
50	-0.3038	0.20497	0.9045	0.38403	-0.2454	0.25185	0.8912	0.367	-0.558	0.04688	0.6456	0.28613

TID vs Result Stats



TID vs Post - Pre Exposure Delta



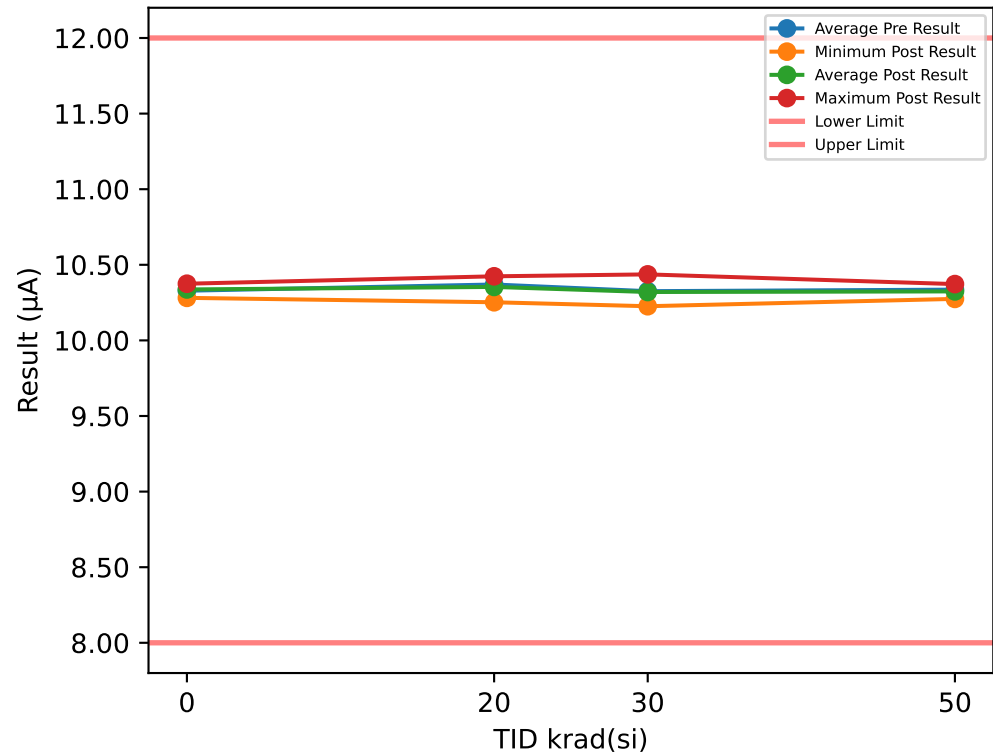
Test Results (Lower Limit = 0.596, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5992	0.5989	-0.0003
516	0	CORRELATION	0.6007	0.6011	0.0004
721	0	CORRELATION	0.6	0.6	0
723	0	CORRELATION	0.6009	0.6009	0
729	0	CORRELATION	0.6001	0.6002	0.0001
990	20	Unbiased	0.6005	0.6008	0.0003
991	20	Unbiased	0.5997	0.5994	-0.0003
992	20	Unbiased	0.6004	0.6	-0.0004
993	20	Unbiased	0.5997	0.6002	0.0005
994	20	Unbiased	0.6004	0.6001	-0.0003
995	20	Biased	0.5996	0.5994	-0.0002
996	20	Biased	0.5998	0.5996	-0.0002
997	20	Biased	0.5998	0.6002	0.0004
998	20	Biased	0.6008	0.6008	0
999	20	Biased	0.6002	0.6002	0
1020	30	Unbiased	0.5995	0.5999	0.0004
1021	30	Unbiased	0.5992	0.5991	-0.0001
1022	30	Unbiased	0.6007	0.6011	0.0004
1023	30	Unbiased	0.5999	0.5999	0
1024	30	Unbiased	0.5993	0.599	-0.0003
1025	30	Biased	0.5996	0.6005	0.0009
1026	30	Biased	0.6006	0.6008	0.0002
1027	30	Biased	0.6006	0.6008	0.0002
1028	30	Biased	0.6007	0.601	0.0003
1029	30	Biased	0.5995	0.5998	0.0003
1030	50	Unbiased	0.6004	0.6006	0.0002
1031	50	Unbiased	0.5997	0.5993	-0.0004
1032	50	Unbiased	0.5991	0.5993	0.0002
1033	50	Unbiased	0.6007	0.6004	-0.0003
1034	50	Unbiased	0.6001	0.6	-0.0001
1035	50	Biased-84Hr-Anneal	0.5993	0.6001	0.0008
1036	50	Biased-84Hr-Anneal	0.6004	0.6009	0.0005
1037	50	Biased-84Hr-Anneal	0.6005	0.6006	0.0001
1038	50	Biased-84Hr-Anneal	0.5995	0.5998	0.0003
1039	50	Biased-84Hr-Anneal	0.5994	0.599	-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	0.5992	0.60018	0.6009	0.00066858	0.5989	0.60022	0.6011	0.00087006	-0.0003	4e-05	0.0004	0.000251
20	0.5996	0.60009	0.6008	0.00042019	0.5994	0.60007	0.6008	0.000499	-0.0004	-2e-05	0.0005	0.00031903
30	0.5992	0.59996	0.6007	0.00062218	0.599	0.60019	0.6011	0.00076369	-0.0003	0.00023	0.0009	0.00032677
50	0.5991	0.59991	0.6007	0.00057629	0.599	0.6	0.6009	0.00064291	-0.0004	9e-05	0.0008	0.00039567

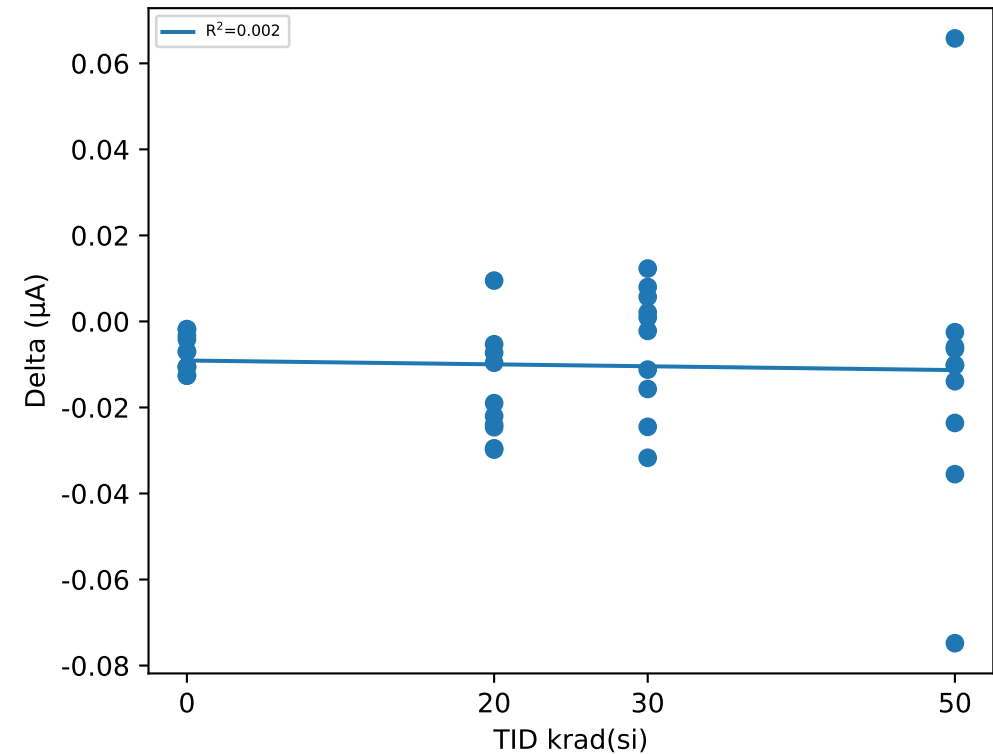
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 12.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	10.301	10.29	-0.0105
516	0	CORRELATION	10.341	10.338	-0.0033
721	0	CORRELATION	10.286	10.281	-0.0042
723	0	CORRELATION	10.385	10.375	-0.0106
729	0	CORRELATION	10.33	10.323	-0.007
990	20	Unbiased	10.361	10.339	-0.022
991	20	Unbiased	10.407	10.388	-0.019
992	20	Unbiased	10.406	10.399	-0.0073
993	20	Unbiased	10.388	10.398	0.0095
994	20	Unbiased	10.434	10.424	-0.0096
995	20	Biased	10.363	10.339	-0.0246
996	20	Biased	10.282	10.252	-0.0295
997	20	Biased	10.284	10.279	-0.0053
998	20	Biased	10.445	10.415	-0.0298
999	20	Biased	10.329	10.305	-0.024
1020	30	Unbiased	10.249	10.238	-0.0112
1021	30	Unbiased	10.287	10.285	-0.0022
1022	30	Unbiased	10.424	10.437	0.0123
1023	30	Unbiased	10.284	10.287	0.0021
1024	30	Unbiased	10.383	10.367	-0.0157
1025	30	Biased	10.316	10.322	0.0057
1026	30	Biased	10.311	10.319	0.008
1027	30	Biased	10.332	10.333	0.0009
1028	30	Biased	10.411	10.387	-0.0245
1029	30	Biased	10.258	10.226	-0.0317
1030	50	Unbiased	10.379	10.372	-0.0064
1031	50	Unbiased	10.337	10.301	-0.0355
1032	50	Unbiased	10.358	10.353	-0.0059
1033	50	Unbiased	10.369	10.346	-0.0236
1034	50	Unbiased	10.38	10.37	-0.0101
1035	50	Biased-84Hr-Anneal	10.295	10.281	-0.0139
1036	50	Biased-84Hr-Anneal	10.324	10.322	-0.0025
1037	50	Biased-84Hr-Anneal	10.285	10.274	-0.0102
1038	50	Biased-84Hr-Anneal	10.354	10.279	-0.0748
1039	50	Biased-84Hr-Anneal	10.276	10.341	0.0658

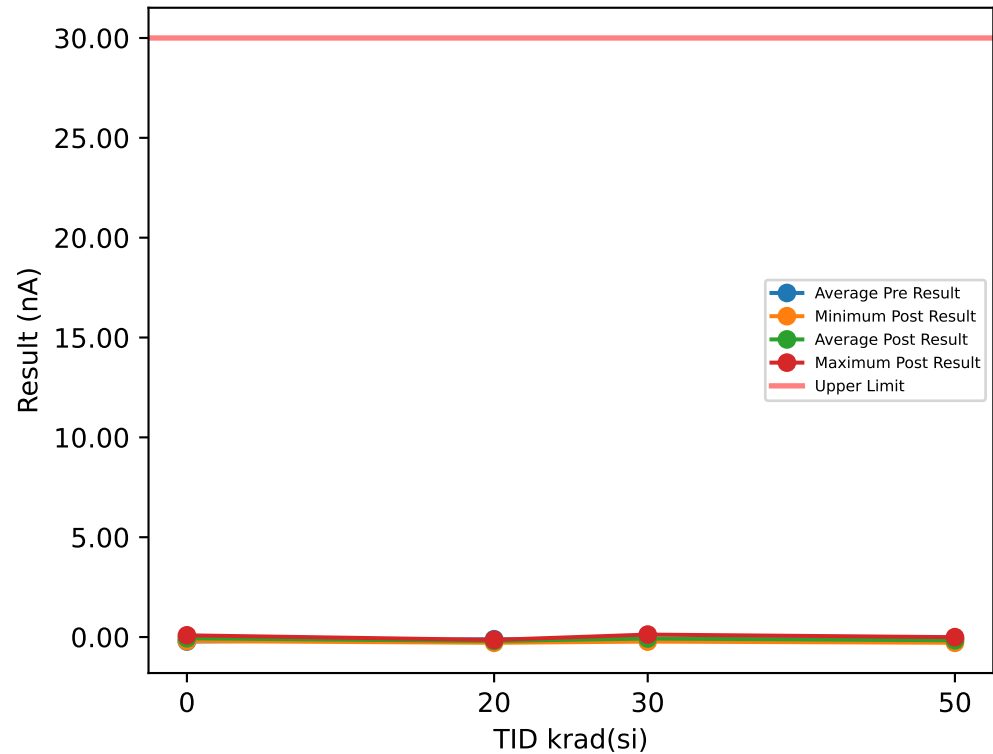
TID vs Post - Pre Exposure Delta



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	10.286	10.329	10.385	0.038758	10.281	10.321	10.375	0.037725	-0.0106	-0.00712	-0.0033	0.0034157
20	10.282	10.37	10.445	0.057461	10.252	10.354	10.424	0.060224	-0.0298	-0.01616	0.0095	0.012635
30	10.249	10.326	10.424	0.061734	10.226	10.32	10.437	0.065258	-0.0317	-0.00563	0.0123	0.014598
50	10.276	10.336	10.38	0.039206	10.274	10.324	10.372	0.037864	-0.0748	-0.01171	0.0658	0.034724

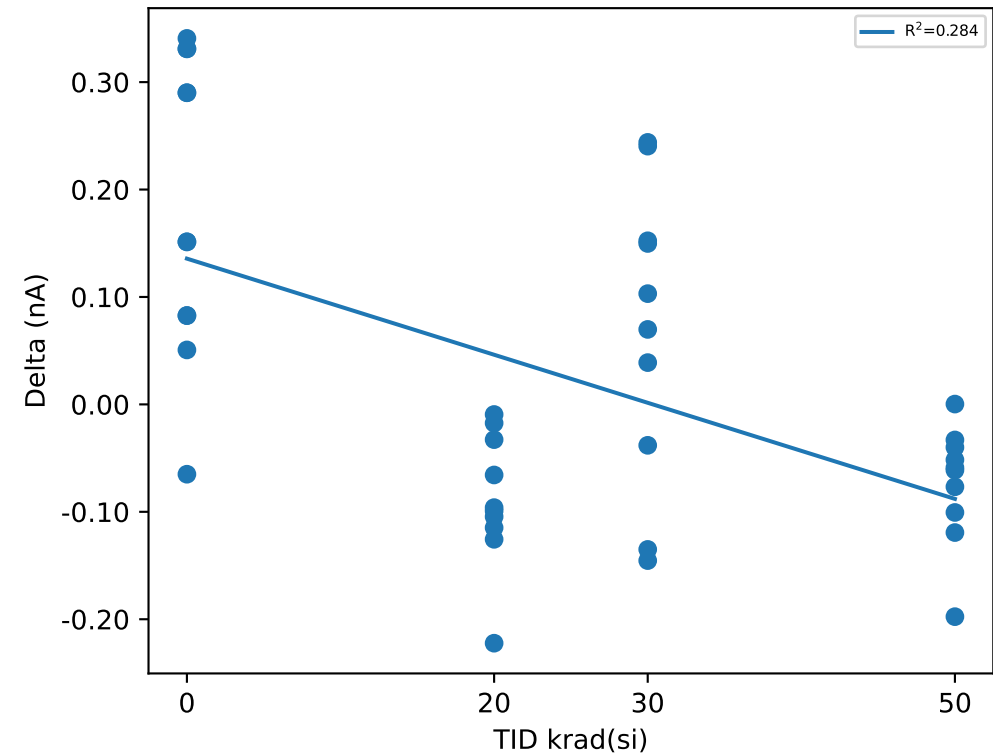
TID vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	-0.163	-0.1123	0.0507
516	0	CORRELATION	-0.1292	-0.1942	-0.065
721	0	CORRELATION	-0.3034	0.0373	0.3407
723	0	CORRELATION	-0.2855	0.0046	0.2901
729	0	CORRELATION	-0.2449	0.0861	0.331
990	20	Unbiased	-0.145	-0.1544	-0.0094
991	20	Unbiased	-0.1261	-0.1435	-0.0174
992	20	Unbiased	-0.053	-0.1786	-0.1256
993	20	Unbiased	-0.0288	-0.2511	-0.2223
994	20	Unbiased	-0.17	-0.2028	-0.0328
995	20	Biased	-0.0606	-0.1754	-0.1148
996	20	Biased	-0.0998	-0.2043	-0.1045
997	20	Biased	-0.113	-0.2091	-0.0961
998	20	Biased	-0.1887	-0.2878	-0.0991
999	20	Biased	-0.0918	-0.1575	-0.0657
1020	30	Unbiased	-0.1342	0.0181	0.1523
1021	30	Unbiased	-0.1754	0.0685	0.2439
1022	30	Unbiased	-0.1168	0.1236	0.2404
1023	30	Unbiased	-0.0225	-0.1575	-0.135
1024	30	Unbiased	-0.2105	-0.1716	0.0389
1025	30	Biased	-0.0637	0.0061	0.0698
1026	30	Biased	-0.1754	-0.0256	0.1498
1027	30	Biased	-0.2855	-0.1824	0.1031
1028	30	Biased	-0.0824	-0.2278	-0.1454
1029	30	Biased	-0.1498	-0.1879	-0.0381
1030	50	Unbiased	-0.045	-0.1217	-0.0767
1031	50	Unbiased	-0.0967	-0.216	-0.1193
1032	50	Unbiased	-0.1099	-0.2105	-0.1006
1033	50	Unbiased	-0.1419	-0.1935	-0.0516
1034	50	Unbiased	-0.098	-0.138	-0.04
1035	50	Biased-84Hr-Anneal	-0.1462	-0.1793	-0.0331
1036	50	Biased-84Hr-Anneal	-0.0065	-0.0062	0.0003
1037	50	Biased-84Hr-Anneal	-0.1212	-0.1824	-0.0612
1038	50	Biased-84Hr-Anneal	-0.0253	-0.0842	-0.0589
1039	50	Biased-84Hr-Anneal	-0.0902	-0.2878	-0.1976

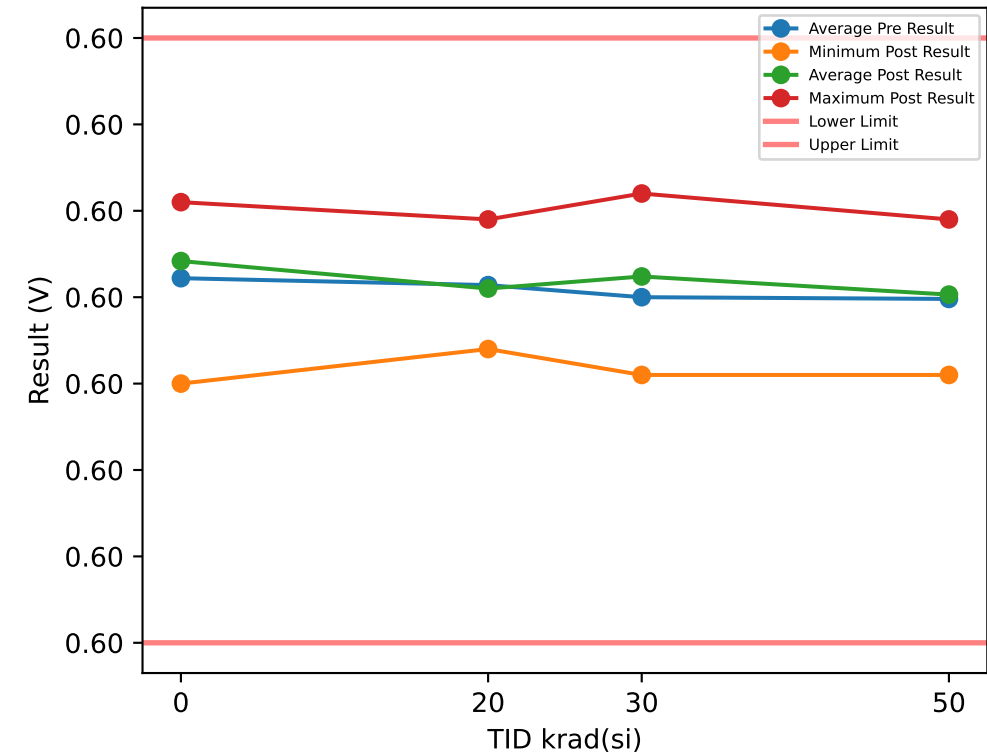
TID vs Post - Pre Exposure Delta



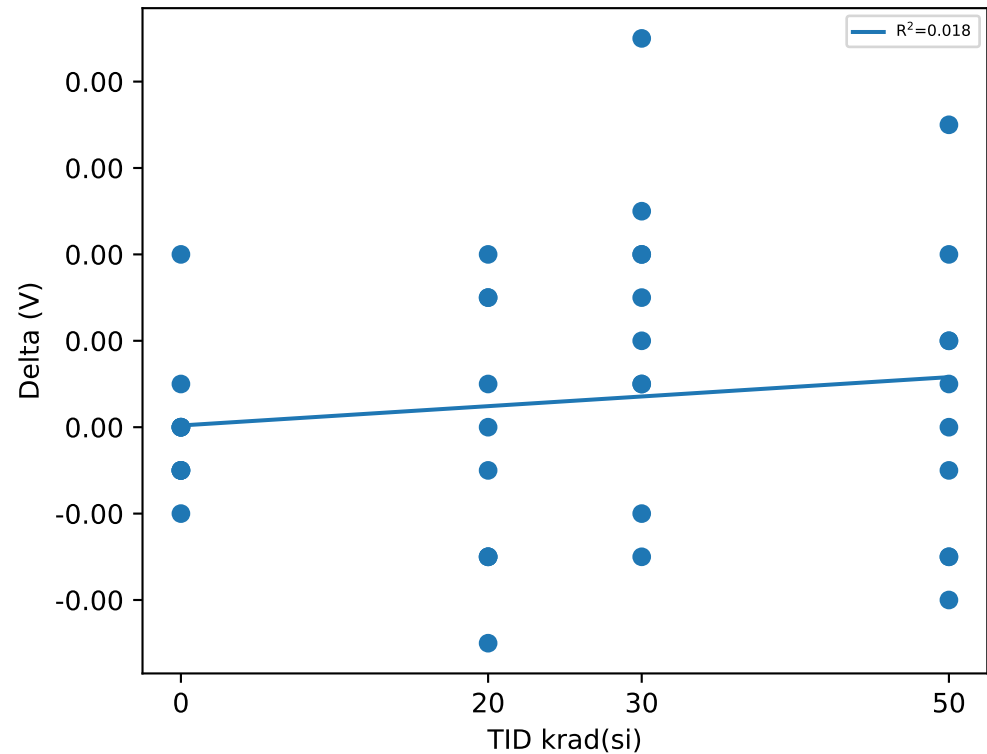
Test Statistics (nA)

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	-0.3034	-0.2252	-0.1292	0.076198	-0.1942	-0.0357	0.0861	0.11487	-0.065	0.1895	0.3407	0.18509
20	-0.1887	-0.10768	-0.0288	0.051587	-0.2878	-0.19645	-0.1435	0.04527	-0.2223	-0.08877	-0.0094	0.062655
30	-0.2855	-0.14162	-0.0225	0.076183	-0.2278	-0.07365	0.1236	0.12537	-0.1454	0.06797	0.2439	0.13926
50	-0.1462	-0.08809	-0.0065	0.0477	-0.2878	-0.16196	-0.0062	0.078406	-0.1976	-0.07387	0.0003	0.055062

TID vs Result Stats



TID vs Post - Pre Exposure Delta



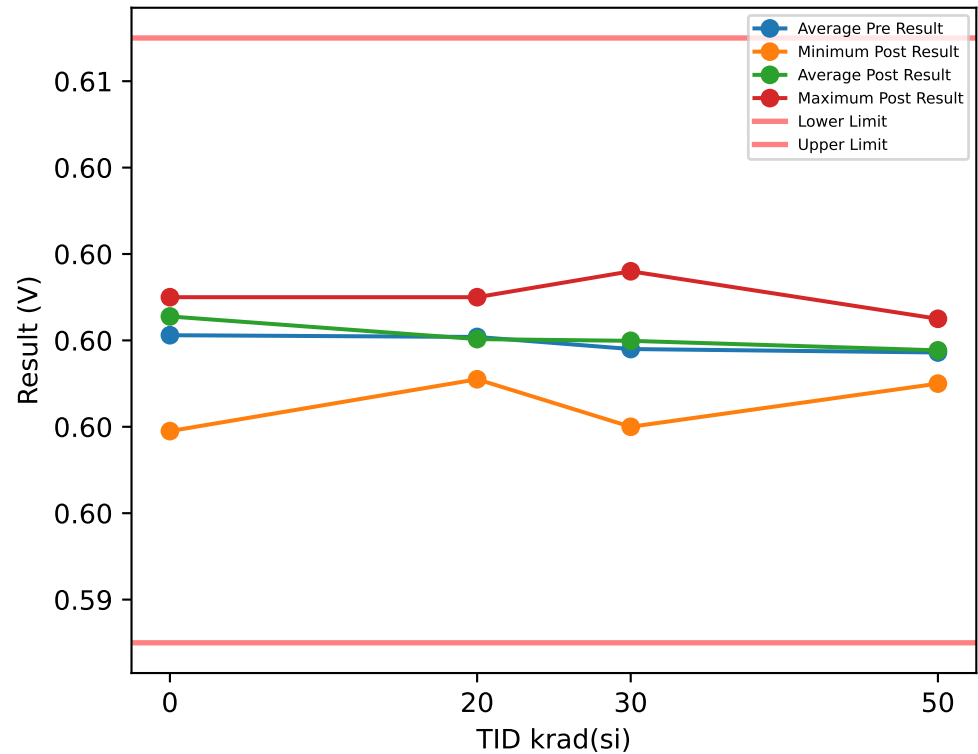
Test Results (Lower Limit = 0.596, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5992	0.599	-0.0002
516	0	CORRELATION	0.6007	0.6011	0.0004
721	0	CORRELATION	0.6	0.6001	0.0001
723	0	CORRELATION	0.601	0.6009	-0.0001
729	0	CORRELATION	0.6002	0.6002	0
990	20	Unbiased	0.6006	0.6009	0.0003
991	20	Unbiased	0.5997	0.5994	-0.0003
992	20	Unbiased	0.6005	0.6	-0.0005
993	20	Unbiased	0.5998	0.6002	0.0004
994	20	Unbiased	0.6004	0.6001	-0.0003
995	20	Biased	0.5997	0.5994	-0.0003
996	20	Biased	0.5998	0.5997	-0.0001
997	20	Biased	0.5999	0.6002	0.0003
998	20	Biased	0.6008	0.6009	0.0001
999	20	Biased	0.6002	0.6002	0
1020	30	Unbiased	0.5995	0.5999	0.0004
1021	30	Unbiased	0.5993	0.5991	-0.0002
1022	30	Unbiased	0.6007	0.6012	0.0005
1023	30	Unbiased	0.5999	0.6	0.0001
1024	30	Unbiased	0.5994	0.5991	-0.0003
1025	30	Biased	0.5996	0.6005	0.0009
1026	30	Biased	0.6007	0.6008	0.0001
1027	30	Biased	0.6007	0.6009	0.0002
1028	30	Biased	0.6007	0.601	0.0003
1029	30	Biased	0.5995	0.5999	0.0004
1030	50	Unbiased	0.6005	0.6006	0.0001
1031	50	Unbiased	0.5997	0.5994	-0.0003
1032	50	Unbiased	0.5991	0.5993	0.0002
1033	50	Unbiased	0.6008	0.6005	-0.0003
1034	50	Unbiased	0.6001	0.6	-0.0001
1035	50	Biased-84Hr-Anneal	0.5994	0.6001	0.0007
1036	50	Biased-84Hr-Anneal	0.6005	0.6009	0.0004
1037	50	Biased-84Hr-Anneal	0.6006	0.6006	0
1038	50	Biased-84Hr-Anneal	0.5996	0.5998	0.0002
1039	50	Biased-84Hr-Anneal	0.5995	0.5991	-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	0.5992	0.60022	0.601	0.00069426	0.599	0.60026	0.6011	0.00082644	-0.0002	4e-05	0.0004	0.00023022
20	0.5997	0.60014	0.6008	0.0004115	0.5994	0.6001	0.6009	0.00052281	-0.0005	-4e-05	0.0004	0.00030984
30	0.5993	0.6	0.6007	0.00062183	0.5991	0.60024	0.6012	0.00076041	-0.0003	0.00024	0.0009	0.00034705
50	0.5991	0.59998	0.6008	0.00059404	0.5991	0.60003	0.6009	0.00062191	-0.0004	5e-05	0.0007	0.000344

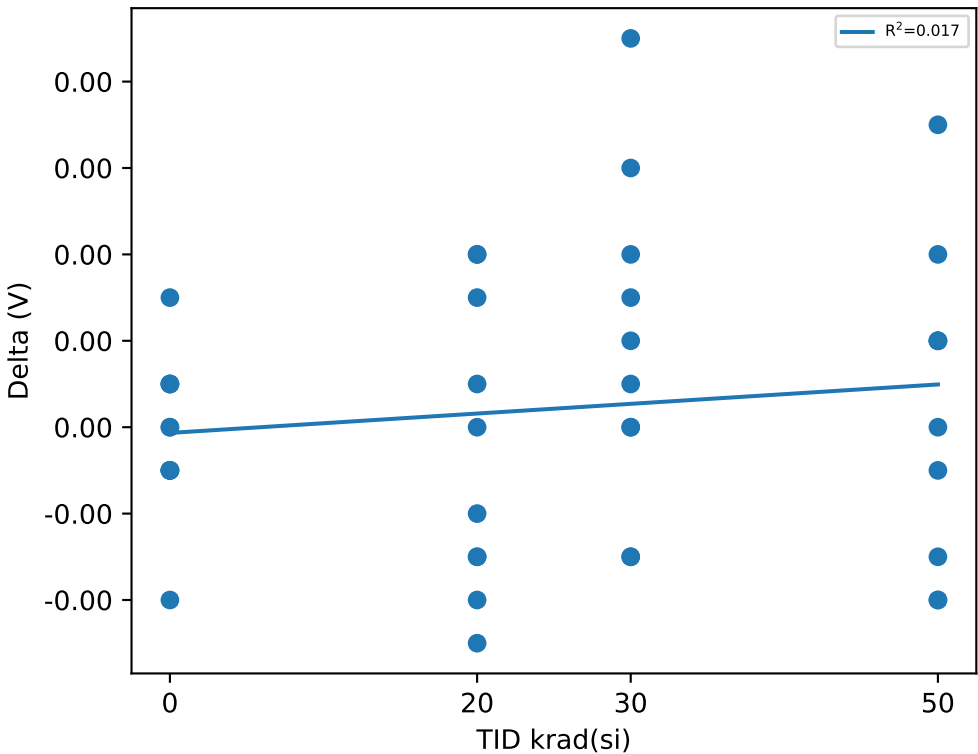
TID vs Result Stats



Test Results (Lower Limit = 0.593, Upper Limit = 0.607 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5983	0.5979	-0.0004
516	0	CORRELATION	0.6003	0.6006	0.0003
721	0	CORRELATION	0.6001	0.6002	0.0001
723	0	CORRELATION	0.6011	0.601	-0.0001
729	0	CORRELATION	0.6008	0.6009	0.0001
990	20	Unbiased	0.5993	0.5996	0.0003
991	20	Unbiased	0.6001	0.5998	-0.0003
992	20	Unbiased	0.6012	0.6007	-0.0005
993	20	Unbiased	0.5997	0.6001	0.0004
994	20	Unbiased	0.5996	0.5992	-0.0004
995	20	Biased	0.601	0.6007	-0.0003
996	20	Biased	0.5993	0.5991	-0.0002
997	20	Biased	0.5999	0.6003	0.0004
998	20	Biased	0.6009	0.601	0.0001
999	20	Biased	0.5998	0.5998	0
1020	30	Unbiased	0.5987	0.5991	0.0004
1021	30	Unbiased	0.5983	0.598	-0.0003
1022	30	Unbiased	0.601	0.6016	0.0006
1023	30	Unbiased	0.6009	0.6009	0
1024	30	Unbiased	0.5992	0.5989	-0.0003
1025	30	Biased	0.5996	0.6005	0.0009
1026	30	Biased	0.6008	0.6008	0
1027	30	Biased	0.6002	0.6003	0.0001
1028	30	Biased	0.6006	0.6009	0.0003
1029	30	Biased	0.5987	0.5989	0.0002
1030	50	Unbiased	0.5995	0.5997	0.0002
1031	50	Unbiased	0.6	0.5996	-0.0004
1032	50	Unbiased	0.5993	0.5995	0.0002
1033	50	Unbiased	0.6002	0.5999	-0.0003
1034	50	Unbiased	0.6	0.5999	-0.0001
1035	50	Biased-84Hr-Anneal	0.5994	0.6001	0.0007
1036	50	Biased-84Hr-Anneal	0.6001	0.6005	0.0004
1037	50	Biased-84Hr-Anneal	0.6003	0.6003	0
1038	50	Biased-84Hr-Anneal	0.5996	0.5992	-0.0004
1039	50	Biased-84Hr-Anneal	0.5988	0.599	0.0002

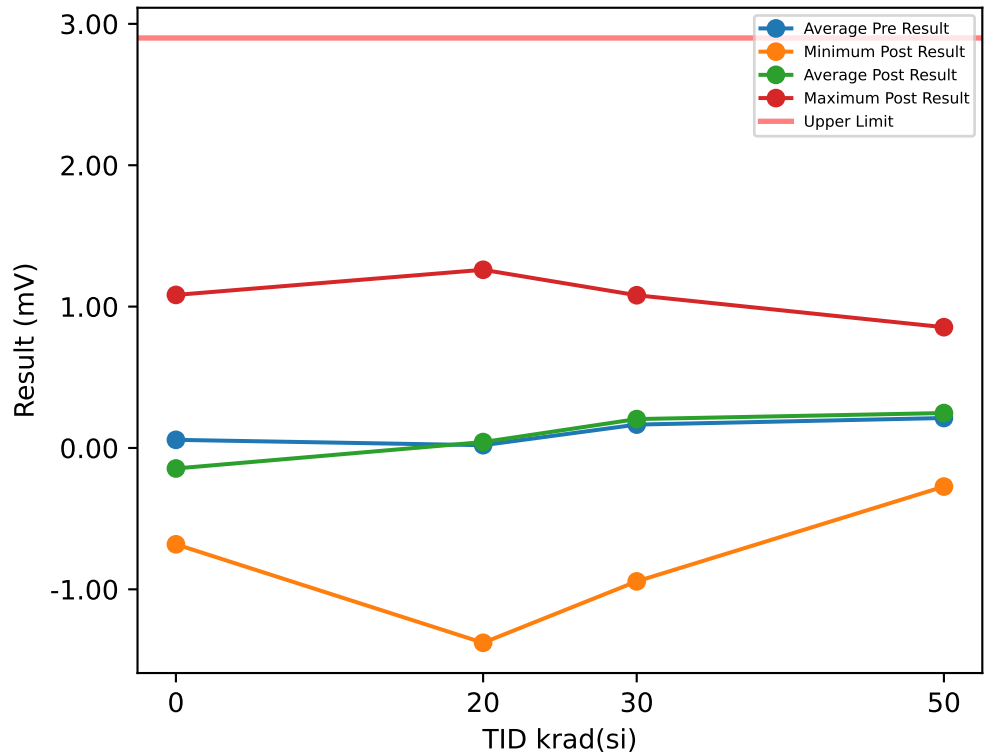
TID vs Post - Pre Exposure Delta



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	0.5983	0.60012	0.6011	0.0010918	0.5979	0.60012	0.601	0.0012795	-0.0004	0	0.0003	0.00026458
20	0.5993	0.60008	0.6012	0.00070522	0.5991	0.60003	0.601	0.00064644	-0.0005	-5e-05	0.0004	0.00033747
30	0.5983	0.5998	0.601	0.0010285	0.598	0.59999	0.6016	0.0011733	-0.0003	0.00019	0.0009	0.00037845
50	0.5988	0.59972	0.6003	0.00047796	0.599	0.59977	0.6005	0.00046916	-0.0004	5e-05	0.0007	0.00035978

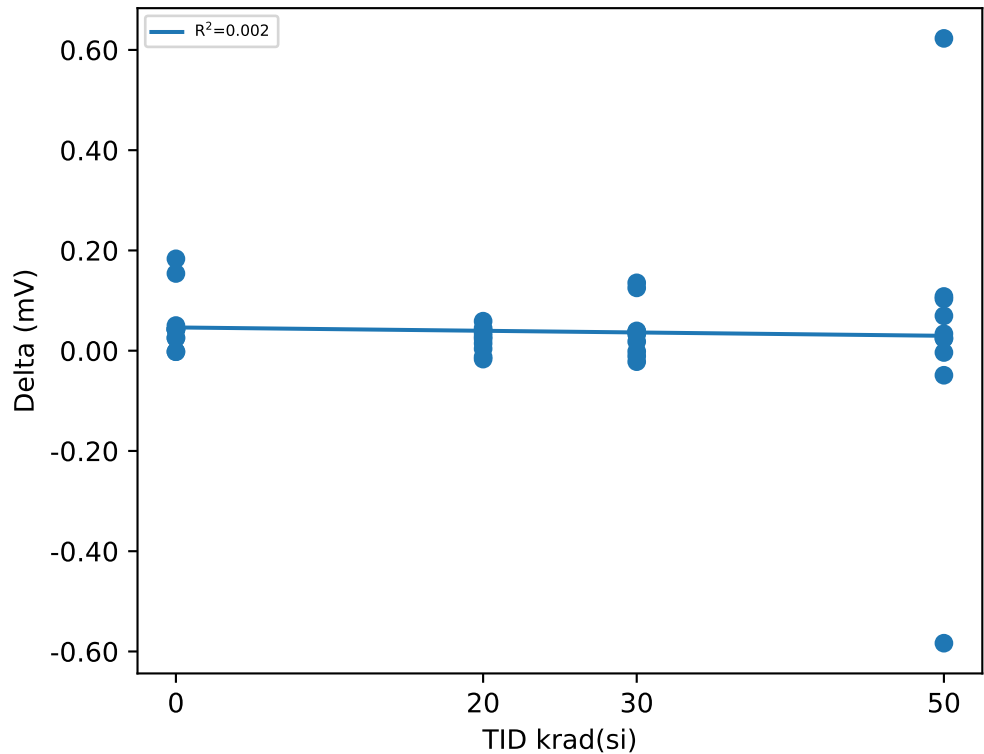
TID vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.8993	1.0826	0.1833
516	0	CORRELATION	0.3635	0.5175	0.154
721	0	CORRELATION	-0.1461	-0.0959	0.0502
723	0	CORRELATION	-0.1225	-0.0799	0.0426
729	0	CORRELATION	-0.707	-0.6643	0.0427
990	20	Unbiased	1.2195	1.2604	0.0409
991	20	Unbiased	-0.3781	-0.3741	0.004
992	20	Unbiased	-0.7292	-0.7145	0.0147
993	20	Unbiased	0.0394	0.0983	0.0589
994	20	Unbiased	0.8284	0.8635	0.0351
995	20	Biased	-1.4232	-1.3782	0.045
996	20	Biased	0.5106	0.5387	0.0281
997	20	Biased	-0.108	-0.1248	-0.0168
998	20	Biased	-0.1361	-0.1484	-0.0123
999	20	Biased	0.3725	0.3961	0.0236
1020	30	Unbiased	0.8224	0.8116	-0.0108
1021	30	Unbiased	0.9449	1.0803	0.1354
1022	30	Unbiased	-0.3884	-0.4103	-0.0219
1023	30	Unbiased	-0.9833	-0.9438	0.0395
1024	30	Unbiased	0.0674	0.1051	0.0377
1025	30	Biased	-0.0212	0.0156	0.0368
1026	30	Biased	-0.1613	-0.036	0.1253
1027	30	Biased	0.4833	0.482	-0.0013
1028	30	Biased	0.0446	0.0628	0.0182
1029	30	Biased	0.8438	0.8763	0.0325
1030	50	Unbiased	0.9033	0.8543	-0.049
1031	50	Unbiased	-0.2977	-0.2731	0.0246
1032	50	Unbiased	-0.1984	-0.1646	0.0338
1033	50	Unbiased	0.5307	0.5271	-0.0036
1034	50	Unbiased	0.0696	0.1391	0.0695
1035	50	Biased-84Hr-Anneal	-0.1057	0.0025	0.1082
1036	50	Biased-84Hr-Anneal	0.3111	0.4145	0.1034
1037	50	Biased-84Hr-Anneal	0.2725	0.2972	0.0247
1038	50	Biased-84Hr-Anneal	0.0204	0.6434	0.623
1039	50	Biased-84Hr-Anneal	0.6129	0.0294	-0.5835

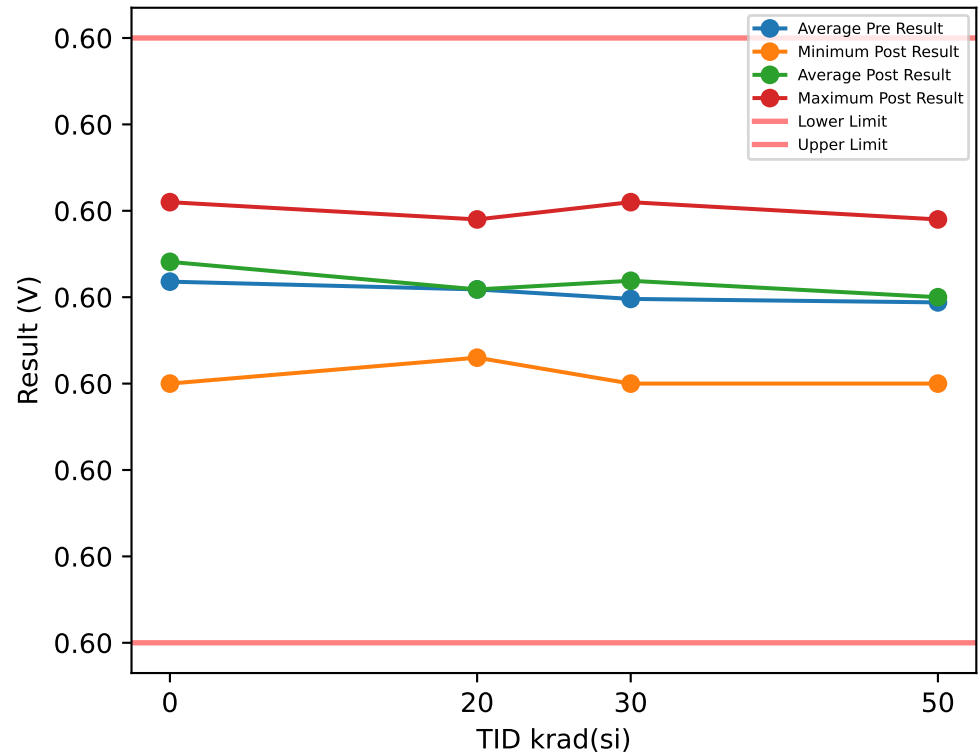
TID vs Post - Pre Exposure Delta



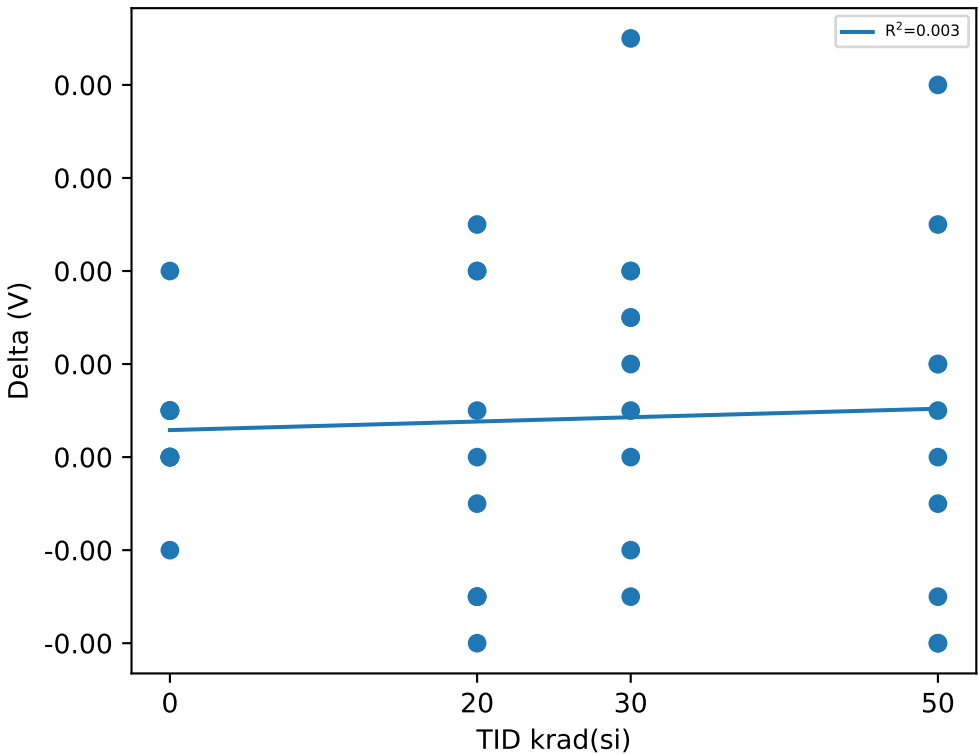
Test Statistics (mV)

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	-0.707	0.05744	0.8993	0.60427	-0.6643	0.152	1.0826	0.66731	0.0426	0.09456	0.1833	0.068493
20	-1.4232	0.01958	1.2195	0.76746	-1.3782	0.0417	1.2604	0.7718	-0.0168	0.02212	0.0589	0.024762
30	-0.9833	0.16522	0.9449	0.61396	-0.9438	0.20436	1.0803	0.62218	-0.0219	0.03914	0.1354	0.052742
50	-0.2977	0.21187	0.9033	0.38583	-0.2731	0.24698	0.8543	0.36418	-0.5835	0.03511	0.623	0.28834

TID vs Result Stats



TID vs Post - Pre Exposure Delta



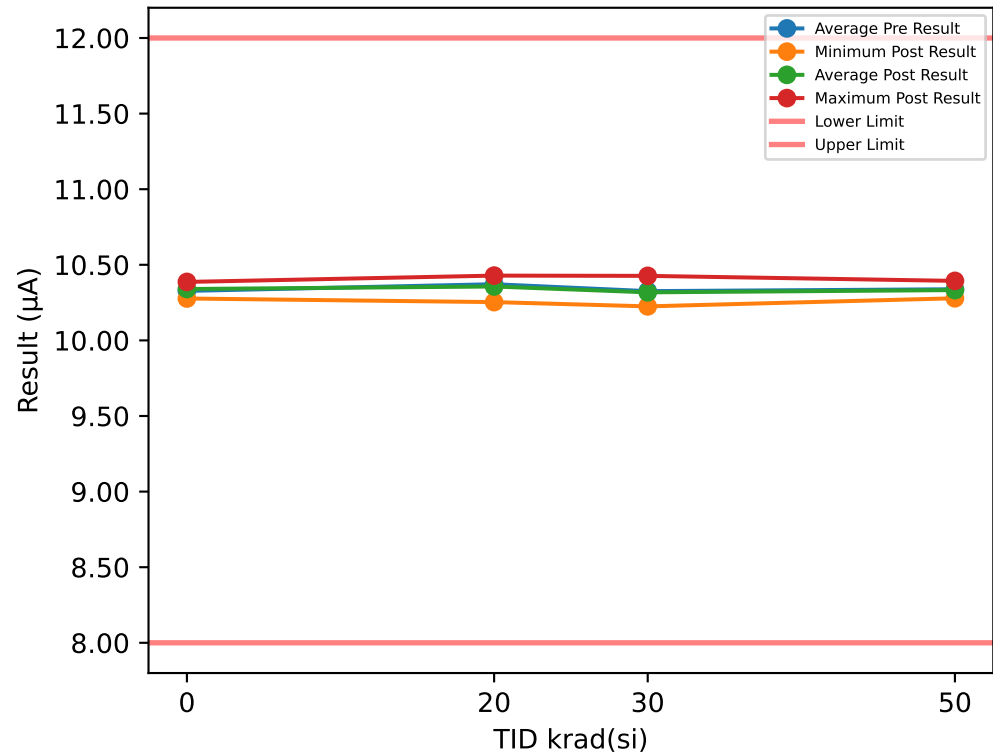
Test Results (Lower Limit = 0.596, Upper Limit = 0.603 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5992	0.599	-0.0002
516	0	CORRELATION	0.6007	0.6011	0.0004
721	0	CORRELATION	0.6	0.6	0
723	0	CORRELATION	0.6009	0.6009	0
729	0	CORRELATION	0.6001	0.6002	0.0001
990	20	Unbiased	0.6005	0.6009	0.0004
991	20	Unbiased	0.5997	0.5994	-0.0003
992	20	Unbiased	0.6004	0.6	-0.0004
993	20	Unbiased	0.5997	0.6002	0.0005
994	20	Unbiased	0.6004	0.6001	-0.0003
995	20	Biased	0.5996	0.5993	-0.0003
996	20	Biased	0.5998	0.5997	-0.0001
997	20	Biased	0.5998	0.6002	0.0004
998	20	Biased	0.6008	0.6009	0.0001
999	20	Biased	0.6002	0.6002	0
1020	30	Unbiased	0.5995	0.5999	0.0004
1021	30	Unbiased	0.5993	0.5991	-0.0002
1022	30	Unbiased	0.6007	0.6011	0.0004
1023	30	Unbiased	0.5999	0.5999	0
1024	30	Unbiased	0.5993	0.599	-0.0003
1025	30	Biased	0.5996	0.6005	0.0009
1026	30	Biased	0.6006	0.6008	0.0002
1027	30	Biased	0.6007	0.6008	0.0001
1028	30	Biased	0.6007	0.601	0.0003
1029	30	Biased	0.5995	0.5998	0.0003
1030	50	Unbiased	0.6005	0.6006	0.0001
1031	50	Unbiased	0.5997	0.5993	-0.0004
1032	50	Unbiased	0.5991	0.5993	0.0002
1033	50	Unbiased	0.6007	0.6004	-0.0003
1034	50	Unbiased	0.6001	0.6	-0.0001
1035	50	Biased-84Hr-Anneal	0.5993	0.6001	0.0008
1036	50	Biased-84Hr-Anneal	0.6004	0.6009	0.0005
1037	50	Biased-84Hr-Anneal	0.6006	0.6006	0
1038	50	Biased-84Hr-Anneal	0.5996	0.5998	0.0002
1039	50	Biased-84Hr-Anneal	0.5994	0.599	-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	0.5992	0.60018	0.6009	0.00066858	0.599	0.60024	0.6011	0.00083247	-0.0002	6e-05	0.0004	0.00021909
20	0.5996	0.60009	0.6008	0.00042019	0.5993	0.60009	0.6009	0.00053841	-0.0004	-2.2204e-17	0.0005	0.00033665
30	0.5993	0.59998	0.6007	0.00062147	0.599	0.60019	0.6011	0.00076369	-0.0003	0.00021	0.0009	0.0003414
50	0.5991	0.59994	0.6007	0.00059104	0.599	0.6	0.6009	0.00064291	-0.0004	6e-05	0.0008	0.0003893

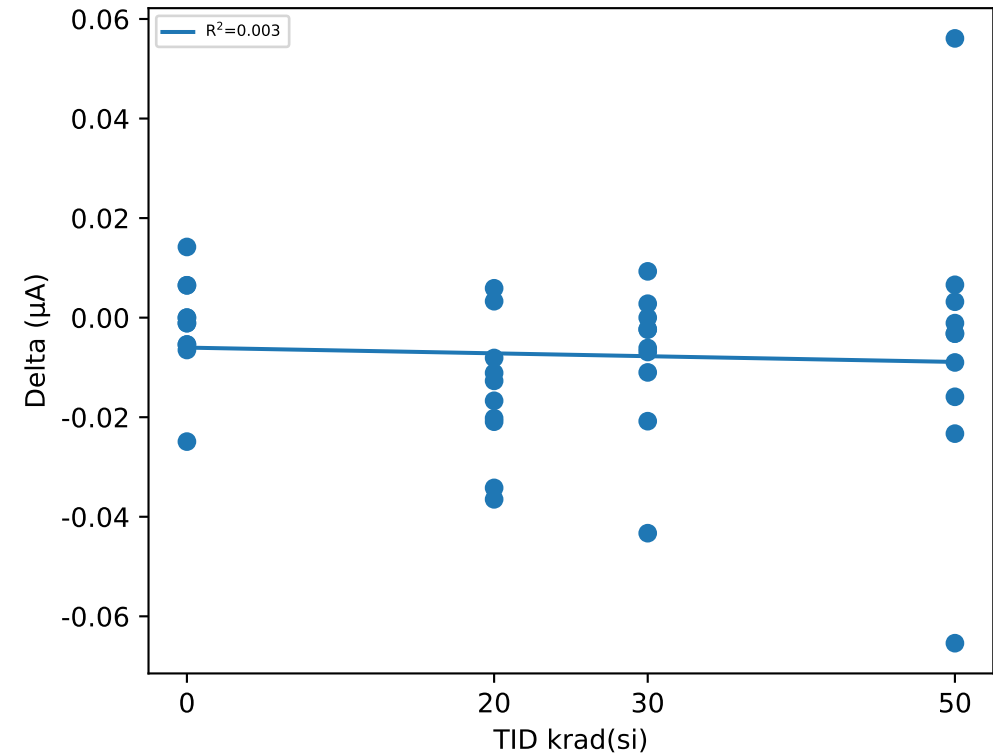
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 12.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	10.291	10.305	0.0142
516	0	CORRELATION	10.356	10.331	-0.0249
721	0	CORRELATION	10.284	10.277	-0.0065
723	0	CORRELATION	10.387	10.381	-0.0054
729	0	CORRELATION	10.32	10.319	-0.0011
990	20	Unbiased	10.348	10.332	-0.0167
991	20	Unbiased	10.388	10.394	0.0059
992	20	Unbiased	10.435	10.399	-0.0365
993	20	Unbiased	10.41	10.413	0.0033
994	20	Unbiased	10.429	10.408	-0.0209
995	20	Biased	10.354	10.334	-0.0202
996	20	Biased	10.287	10.253	-0.0342
997	20	Biased	10.29	10.278	-0.0127
998	20	Biased	10.44	10.428	-0.0111
999	20	Biased	10.334	10.326	-0.0081
1020	30	Unbiased	10.237	10.23	-0.0069
1021	30	Unbiased	10.281	10.279	-0.0023
1022	30	Unbiased	10.429	10.427	-0.0024
1023	30	Unbiased	10.301	10.28	-0.0208
1024	30	Unbiased	10.375	10.364	-0.011
1025	30	Biased	10.311	10.311	0
1026	30	Biased	10.328	10.337	0.0093
1027	30	Biased	10.326	10.329	0.0028
1028	30	Biased	10.403	10.396	-0.0061
1029	30	Biased	10.268	10.225	-0.0433
1030	50	Unbiased	10.395	10.394	-0.0011
1031	50	Unbiased	10.343	10.32	-0.0233
1032	50	Unbiased	10.372	10.375	0.0032
1033	50	Unbiased	10.367	10.351	-0.0159
1034	50	Unbiased	10.382	10.373	-0.009
1035	50	Biased-84Hr-Anneal	10.29	10.287	-0.0032
1036	50	Biased-84Hr-Anneal	10.326	10.333	0.0066
1037	50	Biased-84Hr-Anneal	10.282	10.279	-0.0032
1038	50	Biased-84Hr-Anneal	10.351	10.286	-0.0654
1039	50	Biased-84Hr-Anneal	10.275	10.331	0.0561

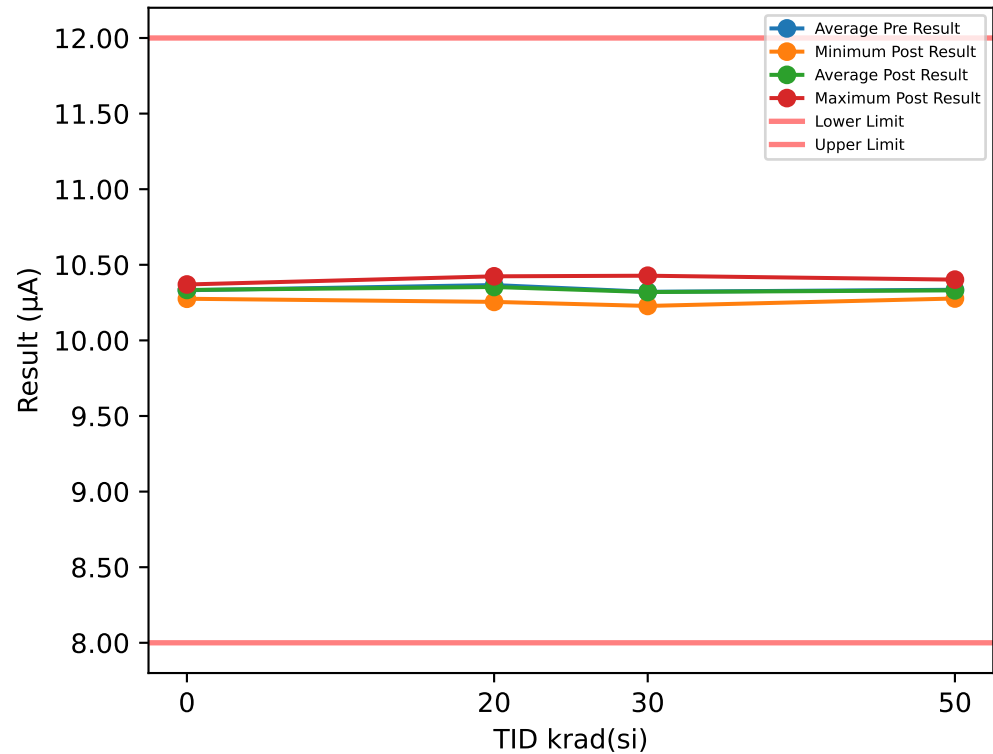
TID vs Post - Pre Exposure Delta



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	10.284	10.327	10.387	0.043672	10.277	10.323	10.381	0.038429	-0.0249	-0.00474	0.0142	0.013982
20	10.287	10.372	10.44	0.057386	10.253	10.357	10.428	0.060743	-0.0365	-0.01512	0.0059	0.013886
30	10.237	10.326	10.429	0.06061	10.225	10.318	10.427	0.066686	-0.0433	-0.00807	0.0093	0.014785
50	10.275	10.338	10.395	0.043333	10.279	10.333	10.394	0.040569	-0.0654	-0.00552	0.0561	0.029948

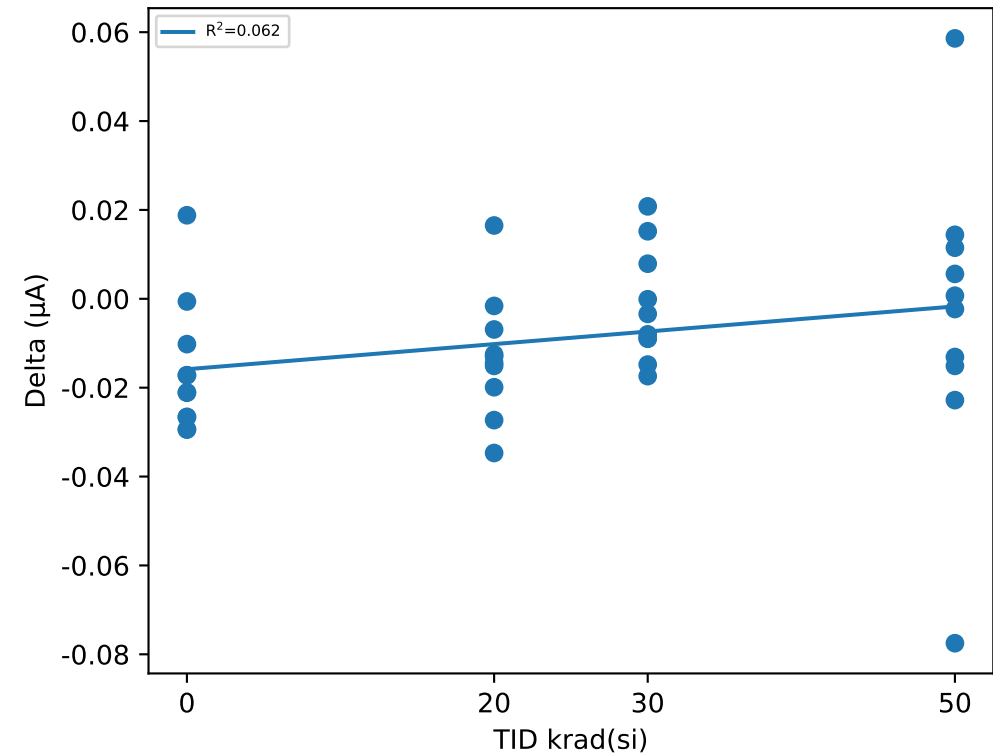
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 12.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	10.286	10.305	0.0188
516	0	CORRELATION	10.356	10.356	-0.0006
721	0	CORRELATION	10.286	10.275	-0.0102
723	0	CORRELATION	10.396	10.37	-0.0266
729	0	CORRELATION	10.334	10.317	-0.0172
990	20	Unbiased	10.358	10.323	-0.0347
991	20	Unbiased	10.407	10.395	-0.0125
992	20	Unbiased	10.422	10.395	-0.0273
993	20	Unbiased	10.406	10.404	-0.0016
994	20	Unbiased	10.425	10.418	-0.0069
995	20	Biased	10.339	10.326	-0.013
996	20	Biased	10.27	10.255	-0.0151
997	20	Biased	10.27	10.286	0.0165
998	20	Biased	10.444	10.424	-0.0199
999	20	Biased	10.32	10.306	-0.0144
1020	30	Unbiased	10.237	10.228	-0.009
1021	30	Unbiased	10.273	10.281	0.0079
1022	30	Unbiased	10.428	10.428	-0.0001
1023	30	Unbiased	10.273	10.293	0.0208
1024	30	Unbiased	10.37	10.361	-0.0088
1025	30	Biased	10.315	10.311	-0.0034
1026	30	Biased	10.319	10.334	0.0152
1027	30	Biased	10.342	10.325	-0.0174
1028	30	Biased	10.416	10.401	-0.0148
1029	30	Biased	10.245	10.237	-0.008
1030	50	Unbiased	10.387	10.402	0.0144
1031	50	Unbiased	10.32	10.332	0.0115
1032	50	Unbiased	10.358	10.363	0.0056
1033	50	Unbiased	10.37	10.347	-0.0228
1034	50	Unbiased	10.383	10.37	-0.0131
1035	50	Biased-84Hr-Anneal	10.289	10.29	0.0007
1036	50	Biased-84Hr-Anneal	10.328	10.313	-0.0151
1037	50	Biased-84Hr-Anneal	10.281	10.279	-0.0023
1038	50	Biased-84Hr-Anneal	10.354	10.277	-0.0775
1039	50	Biased-84Hr-Anneal	10.278	10.337	0.0586

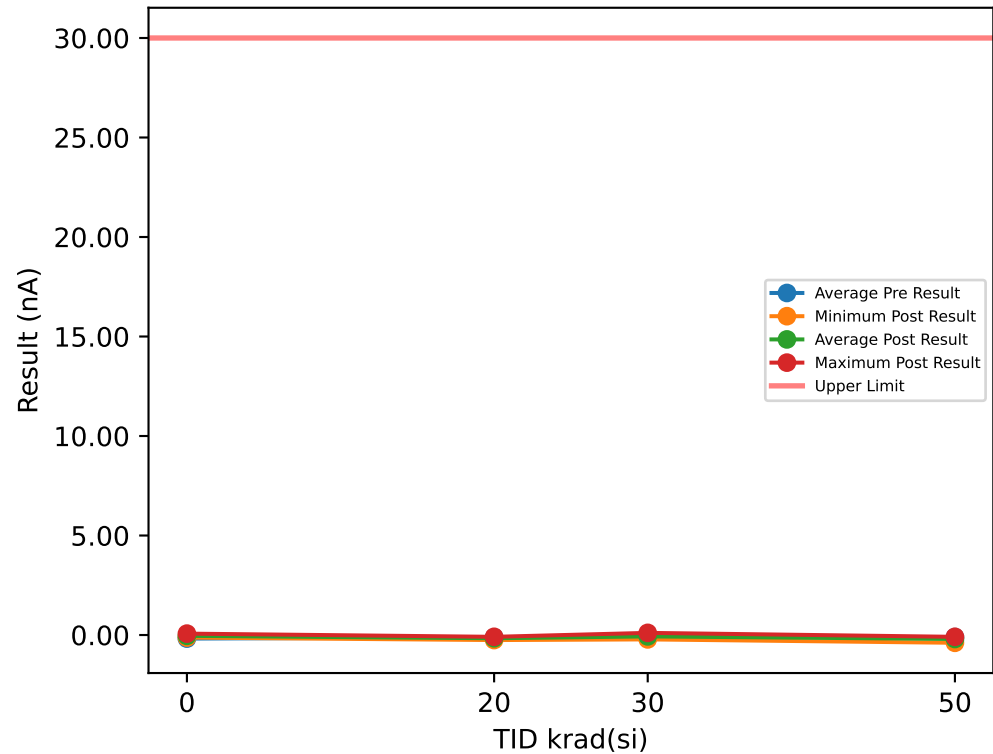
TID vs Post - Pre Exposure Delta



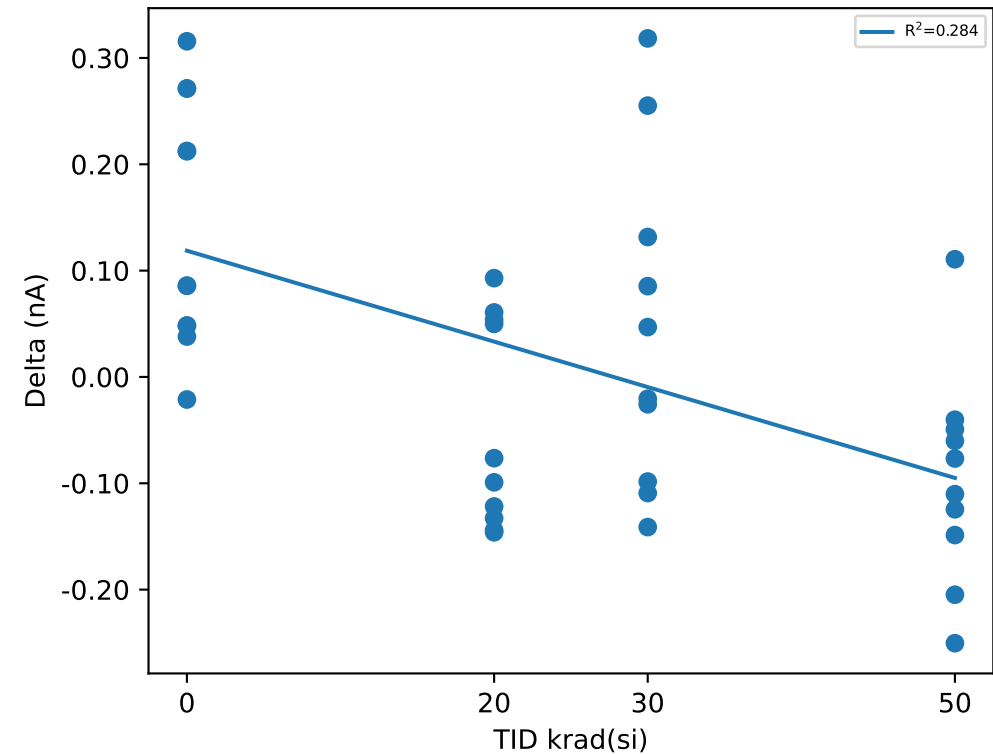
Test Statistics (µA)

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	10.286	10.332	10.396	0.047525	10.275	10.325	10.37	0.038389	-0.0266	-0.00716	0.0188	0.017356
20	10.27	10.366	10.444	0.064471	10.255	10.353	10.424	0.060895	-0.0347	-0.01289	0.0165	0.014012
30	10.237	10.322	10.428	0.067326	10.228	10.32	10.428	0.064802	-0.0174	-0.00176	0.0208	0.012697
50	10.278	10.335	10.387	0.041722	10.277	10.331	10.402	0.041501	-0.0775	-0.004	0.0586	0.034281

TID vs Result Stats



TID vs Post - Pre Exposure Delta



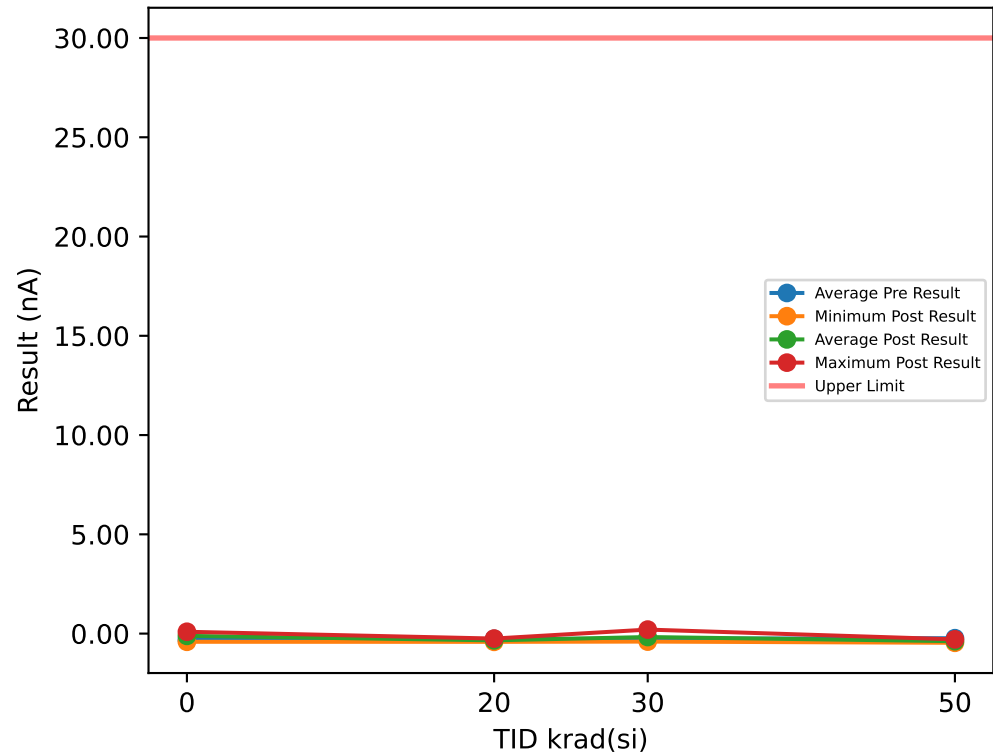
Test Results (Upper Limit = 30.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	-0.1005	-0.1217	-0.0212
516	0	CORRELATION	-0.0793	-0.0413	0.038
721	0	CORRELATION	-0.3408	-0.0251	0.3157
723	0	CORRELATION	-0.2012	0.0701	0.2713
729	0	CORRELATION	-0.1762	0.0362	0.2124
990	20	Unbiased	-0.1949	-0.145	0.0499
991	20	Unbiased	-0.0169	-0.1498	-0.1329
992	20	Unbiased	-0.0593	-0.2035	-0.1442
993	20	Unbiased	-0.216	-0.1231	0.0929
994	20	Unbiased	-0.1512	-0.0905	0.0607
995	20	Biased	-0.0231	-0.1692	-0.1461
996	20	Biased	-0.0936	-0.17	-0.0764
997	20	Biased	-0.1942	-0.1404	0.0538
998	20	Biased	-0.1544	-0.2535	-0.0991
999	20	Biased	-0.0606	-0.1824	-0.1218
1020	30	Unbiased	-0.2184	0.0368	0.2552
1021	30	Unbiased	-0.0943	0.0373	0.1316
1022	30	Unbiased	-0.2104	0.108	0.3184
1023	30	Unbiased	-0.0069	-0.1481	-0.1412
1024	30	Unbiased	-0.0607	-0.1591	-0.0984
1025	30	Biased	-0.0949	-0.0095	0.0854
1026	30	Biased	-0.113	-0.0661	0.0469
1027	30	Biased	-0.1107	-0.2199	-0.1092
1028	30	Biased	-0.0949	-0.1154	-0.0205
1029	30	Biased	-0.1248	-0.1505	-0.0257
1030	50	Unbiased	-0.1386	-0.2153	-0.0767
1031	50	Unbiased	-0.1404	-0.3908	-0.2504
1032	50	Unbiased	-0.138	-0.1981	-0.0601
1033	50	Unbiased	-0.2012	-0.0905	0.1107
1034	50	Unbiased	-0.0887	-0.138	-0.0493
1035	50	Biased-84Hr-Anneal	-0.0775	-0.2262	-0.1487
1036	50	Biased-84Hr-Anneal	-0.0565	-0.0967	-0.0402
1037	50	Biased-84Hr-Anneal	-0.1056	-0.3104	-0.2048
1038	50	Biased-84Hr-Anneal	-0.0159	-0.1404	-0.1245
1039	50	Biased-84Hr-Anneal	-0.0871	-0.1973	-0.1102

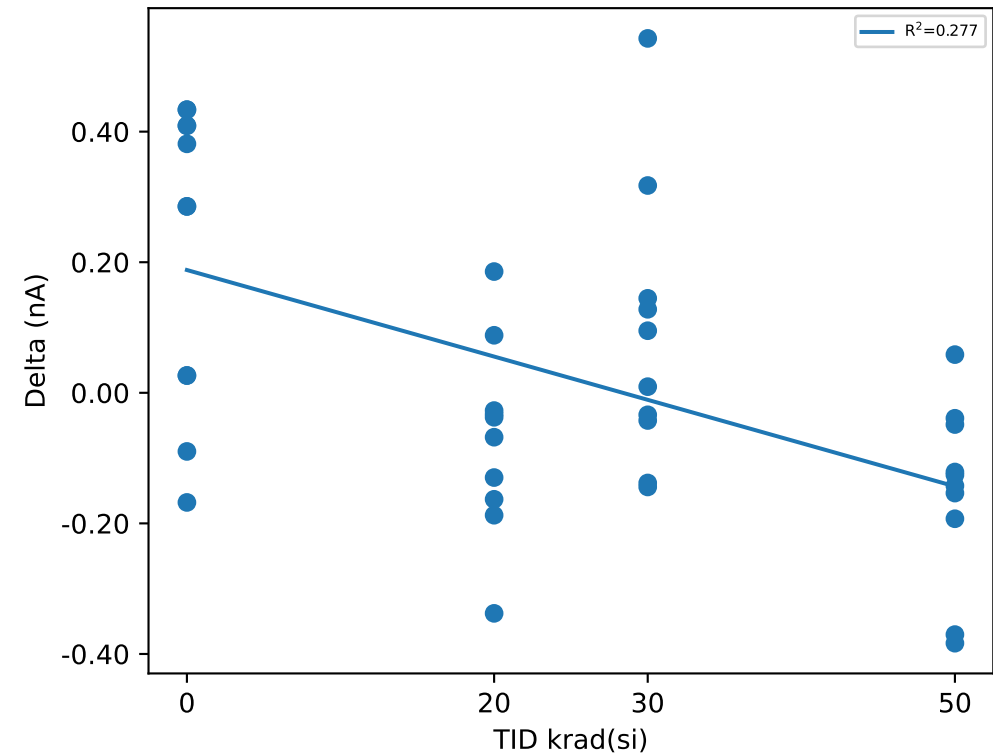
Test Statistics (nA)

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	-0.3408	-0.1796	-0.0793	0.10342	-0.1217	-0.01636	0.0701	0.074217	-0.0212	0.16324	0.3157	0.14751
20	-0.216	-0.11642	-0.0169	0.074751	-0.2535	-0.16274	-0.0905	0.044908	-0.1461	-0.04632	0.0929	0.098058
30	-0.2184	-0.1129	-0.0069	0.063015	-0.2199	-0.06865	0.108	0.10714	-0.1412	0.04425	0.3184	0.15505
50	-0.2012	-0.10495	-0.0159	0.052025	-0.3908	-0.20037	-0.0905	0.094033	-0.2504	-0.09542	0.1107	0.099524

TID vs Result Stats



TID vs Post - Pre Exposure Delta



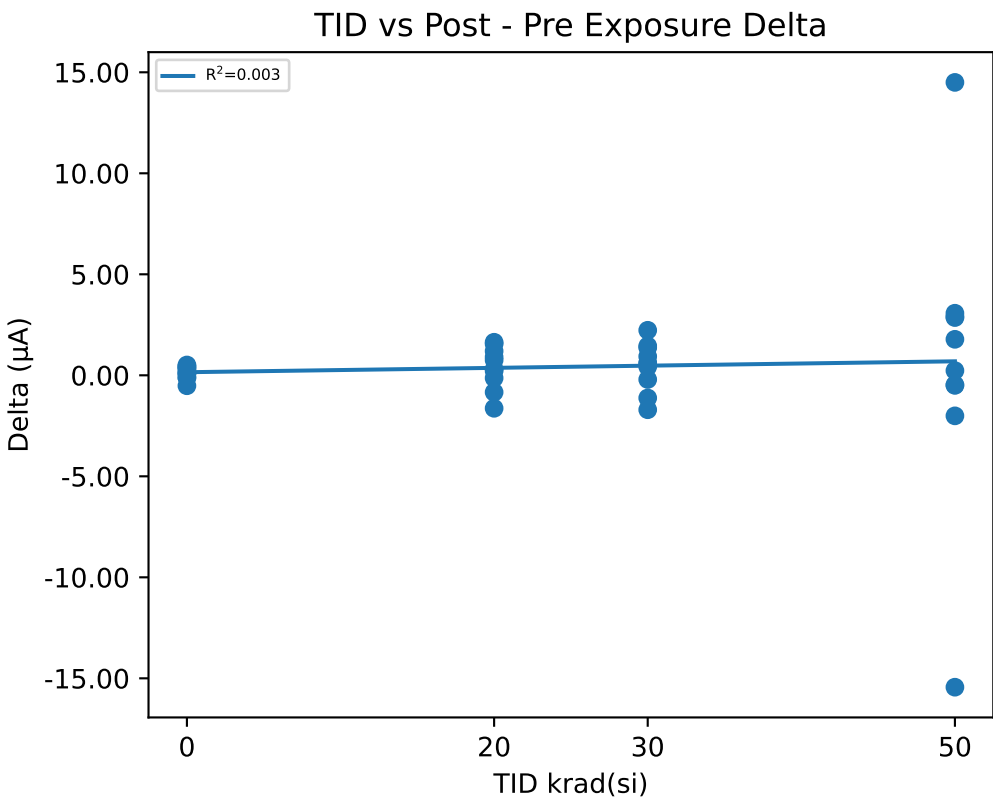
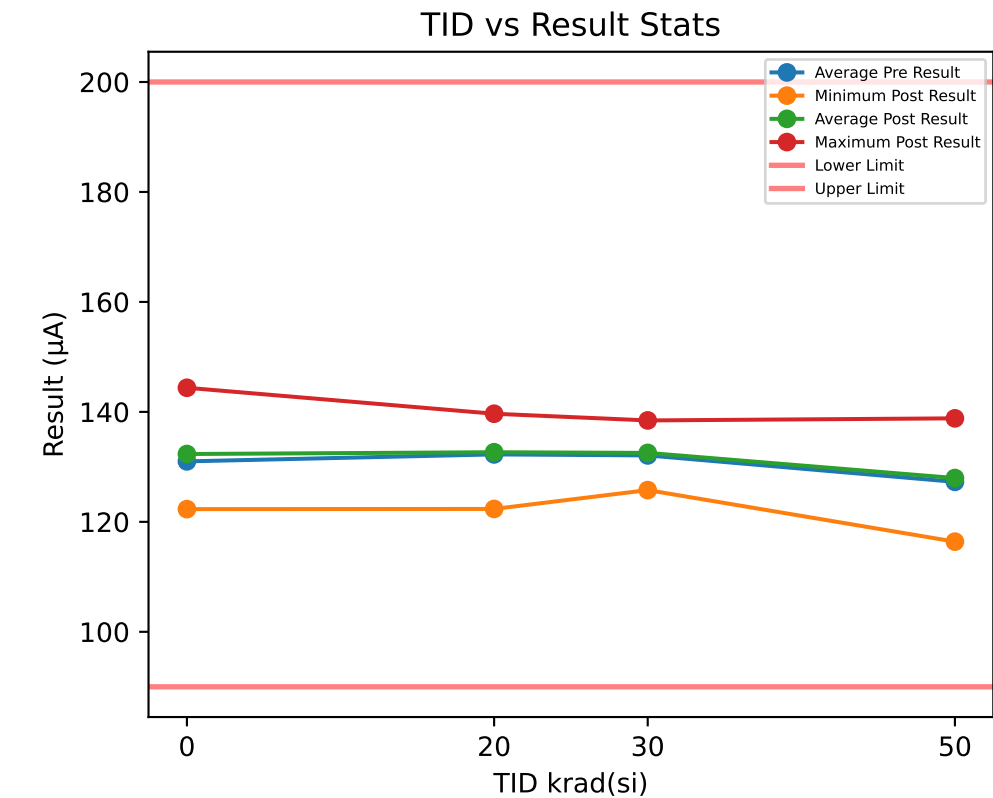
Test Results (Upper Limit = 30.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	-0.2722	-0.362	-0.0898
516	0	CORRELATION	-0.2447	-0.4126	-0.1679
721	0	CORRELATION	-0.3814	-0.0001	0.3813
723	0	CORRELATION	-0.3822	0.0514	0.4336
729	0	CORRELATION	-0.3167	0.0924	0.4091
990	20	Unbiased	-0.2355	-0.273	-0.0375
991	20	Unbiased	-0.201	-0.3308	-0.1298
992	20	Unbiased	-0.0686	-0.4064	-0.3378
993	20	Unbiased	-0.1598	-0.3229	-0.1631
994	20	Unbiased	-0.4353	-0.2496	0.1857
995	20	Biased	-0.2572	-0.3252	-0.068
996	20	Biased	-0.3245	-0.3573	-0.0328
997	20	Biased	-0.4126	-0.3245	0.0881
998	20	Biased	-0.3885	-0.4157	-0.0272
999	20	Biased	-0.201	-0.3885	-0.1875
1020	30	Unbiased	-0.2028	0.1147	0.3175
1021	30	Unbiased	-0.0943	-0.128	-0.0337
1022	30	Unbiased	-0.2603	-0.1324	0.1279
1023	30	Unbiased	-0.2254	-0.3635	-0.1381
1024	30	Unbiased	-0.3697	-0.2746	0.0951
1025	30	Biased	-0.2478	-0.1031	0.1447
1026	30	Biased	-0.3408	0.202	0.5428
1027	30	Biased	-0.3448	-0.3354	0.0094
1028	30	Biased	-0.2603	-0.3027	-0.0424
1029	30	Biased	-0.259	-0.4032	-0.1442
1030	50	Unbiased	-0.2978	-0.3464	-0.0486
1031	50	Unbiased	-0.2652	-0.4188	-0.1536
1032	50	Unbiased	-0.397	-0.3385	0.0585
1033	50	Unbiased	-0.3167	-0.3557	-0.039
1034	50	Unbiased	-0.201	-0.3939	-0.1929
1035	50	Biased-84Hr-Anneal	-0.0775	-0.4478	-0.3703
1036	50	Biased-84Hr-Anneal	0.0465	-0.337	-0.3835
1037	50	Biased-84Hr-Anneal	-0.321	-0.4634	-0.1424
1038	50	Biased-84Hr-Anneal	-0.1689	-0.2902	-0.1213
1039	50	Biased-84Hr-Anneal	-0.3118	-0.4376	-0.1258

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	-0.3822	-0.31944	-0.2447	0.062456	-0.4126	-0.12618	0.0924	0.24128	-0.1679	0.19326	0.4336	0.29592
20	-0.4353	-0.2684	-0.0686	0.11936	-0.4157	-0.33939	-0.2496	0.054042	-0.3378	-0.07099	0.1857	0.14622
30	-0.3697	-0.26052	-0.0943	0.080157	-0.4032	-0.17262	0.202	0.20406	-0.1442	0.0879	0.5428	0.21276
50	-0.397	-0.23104	0.0465	0.13354	-0.4634	-0.38293	-0.2902	0.057579	-0.3835	-0.15189	0.0585	0.13841

Device Test: 18.10 ERROR_AMP|STATIC/COMP/5////@EA_SOURCE



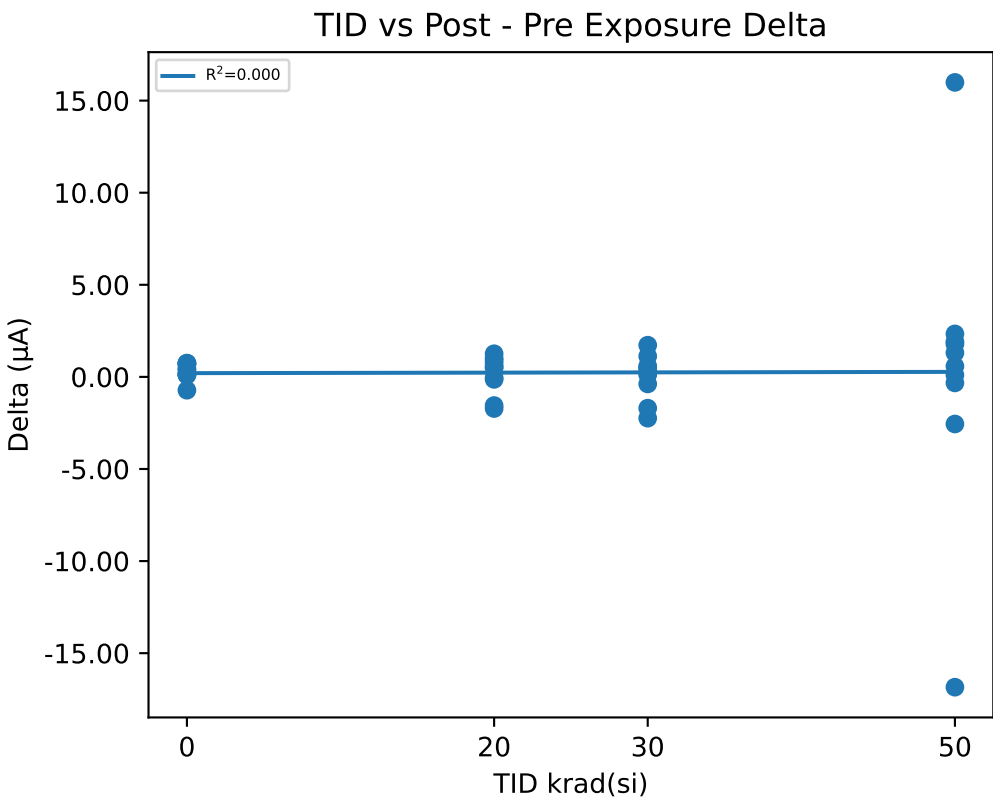
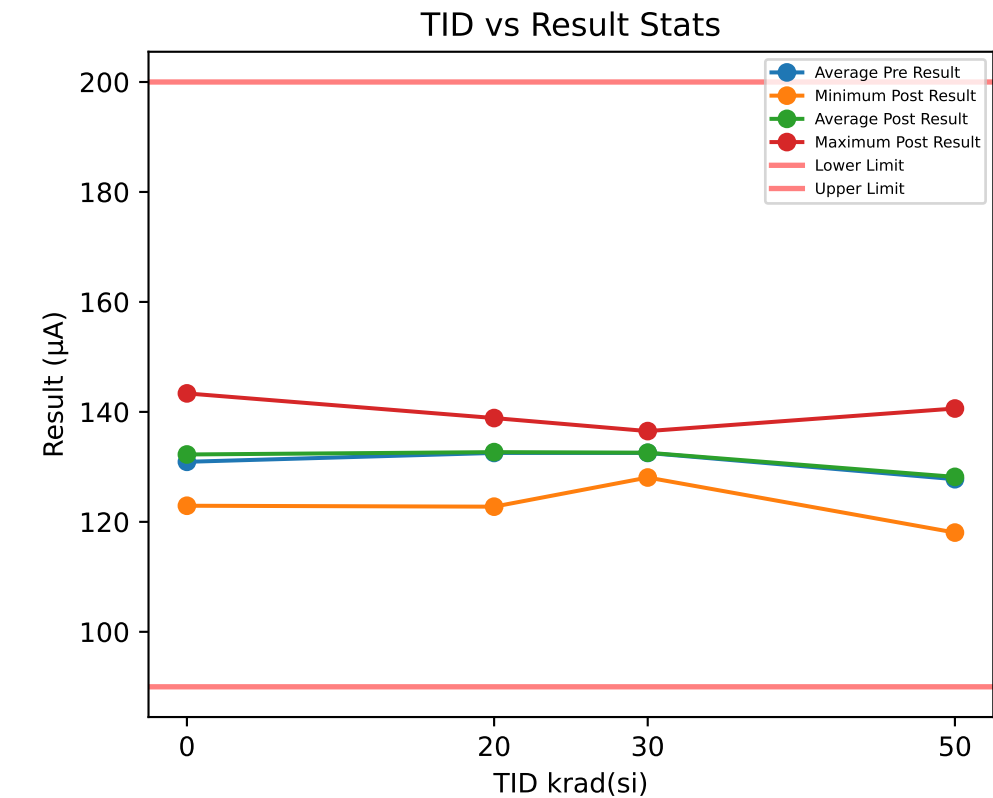
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	132.15	131.63	-0.5171
516	0	CORRELATION	133.71	134.22	0.511
721	0	CORRELATION	122.76	122.88	0.1159
723	0	CORRELATION	143.95	144.26	0.3156
729	0	CORRELATION	122.43	122.31	-0.112
990	20	Unbiased	132.24	133.88	1.6363
991	20	Unbiased	125.68	126.88	1.1979
992	20	Unbiased	137.59	137.45	-0.1345
993	20	Unbiased	126.57	126.79	0.2218
994	20	Unbiased	141.3	139.67	-1.6329
995	20	Biased	132.87	133.77	0.9022
996	20	Biased	122.04	122.35	0.3092
997	20	Biased	136.78	138.34	1.5551
998	20	Biased	137.65	138.4	0.7523
999	20	Biased	129.95	129.11	-0.8378
1020	30	Unbiased	129.68	131.13	1.4524
1021	30	Unbiased	131.93	132.5	0.5662
1022	30	Unbiased	130.14	130.76	0.6256
1023	30	Unbiased	133.26	134.19	0.9342
1024	30	Unbiased	125.98	125.77	-0.2056
1025	30	Biased	130.42	130.84	0.4251
1026	30	Biased	130.62	132.85	2.2288
1027	30	Biased	139.57	138.45	-1.1221
1028	30	Biased	135.4	133.7	-1.7044
1029	30	Biased	133.85	135.22	1.3702
1030	50	Unbiased	125.19	128.09	2.9009
1031	50	Unbiased	116.9	116.4	-0.4975
1032	50	Unbiased	127.24	125.23	-2.0072
1033	50	Unbiased	125.37	124.9	-0.4729
1034	50	Unbiased	128.95	130.73	1.7818
1035	50	Biased-84Hr-Anneal	127.45	130.31	2.8589
1036	50	Biased-84Hr-Anneal	127.37	130.45	3.0727
1037	50	Biased-84Hr-Anneal	131.25	131.48	0.2323
1038	50	Biased-84Hr-Anneal	138.71	123.27	-15.439
1039	50	Biased-84Hr-Anneal	124.33	138.82	14.499

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	122.43	131	143.95	8.9121	122.31	131.06	144.26	9.0568	-0.5171	0.06268	0.511	0.39826
20	122.04	132.27	141.3	6.1951	122.35	132.66	139.67	6.0255	-1.6329	0.39696	1.6363	1.047
30	125.98	132.08	139.57	3.7013	125.77	132.54	138.45	3.3342	-1.7044	0.45704	2.2288	1.1943
50	116.9	127.28	138.71	5.5159	116.4	127.97	138.82	5.9839	-15.439	0.69292	14.499	7.2844

Device Test: 18.11 ERROR_AMP|STATIC/COMP/5////@EA_SINK



Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

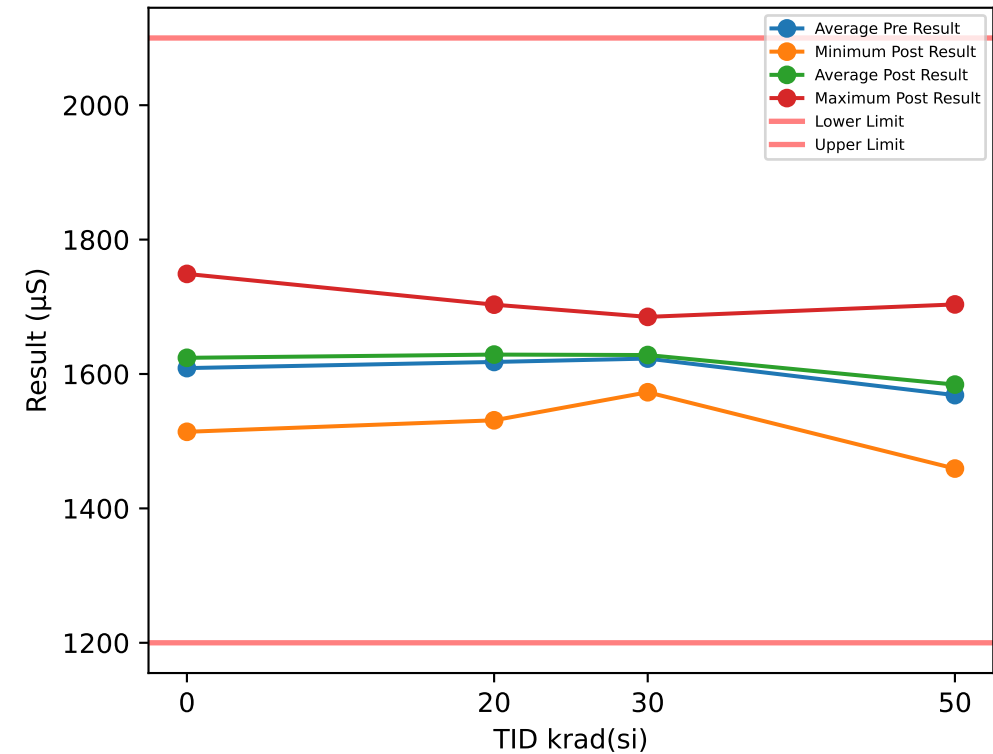
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	133.27	133.36	0.0932
516	0	CORRELATION	133.01	132.29	-0.7236
721	0	CORRELATION	122.77	122.93	0.1556
723	0	CORRELATION	142.66	143.36	0.7013
729	0	CORRELATION	122.89	123.63	0.7445
990	20	Unbiased	130.1	131.11	1.013
991	20	Unbiased	127.15	128.41	1.2559
992	20	Unbiased	138.52	138.38	-0.135
993	20	Unbiased	127.22	127.17	-0.0467
994	20	Unbiased	140.43	138.88	-1.5554
995	20	Biased	136.2	136.72	0.5188
996	20	Biased	122.24	122.76	0.5251
997	20	Biased	137.35	138.25	0.8985
998	20	Biased	136.12	136.84	0.7233
999	20	Biased	130.01	128.29	-1.7174
1020	30	Unbiased	130.77	131.22	0.4472
1021	30	Unbiased	132.46	133.58	1.122
1022	30	Unbiased	130.1	130.22	0.1156
1023	30	Unbiased	134.69	135.2	0.5094
1024	30	Unbiased	127.84	128.06	0.2231
1025	30	Biased	131.34	130.96	-0.3823
1026	30	Biased	130.13	131.86	1.7214
1027	30	Biased	138.21	136.51	-1.6987
1028	30	Biased	134.98	132.74	-2.2411
1029	30	Biased	134.83	135.42	0.5899
1030	50	Unbiased	125	127.33	2.3331
1031	50	Unbiased	118.38	118.05	-0.3276
1032	50	Unbiased	129.74	127.19	-2.5574
1033	50	Unbiased	124.34	124.44	0.1041
1034	50	Unbiased	129.18	130.49	1.3099
1035	50	Biased-84Hr-Anneal	129.05	130.83	1.7807
1036	50	Biased-84Hr-Anneal	127.43	129.35	1.9139
1037	50	Biased-84Hr-Anneal	129.94	130.52	0.5787
1038	50	Biased-84Hr-Anneal	139.85	123	-16.847
1039	50	Biased-84Hr-Anneal	124.63	140.61	15.989

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	122.77	130.92	142.66	8.3468	122.93	131.11	143.36	8.3587	-0.7236	0.1942	0.7445	0.59456
20	122.24	132.53	140.43	5.9932	122.76	132.68	138.88	5.8144	-1.7174	0.14801	1.2559	1.0354
30	127.84	132.53	138.21	3.0963	128.06	132.58	136.51	2.6319	-2.2411	0.04065	1.7214	1.2079
50	118.38	127.75	139.85	5.5368	118.05	128.18	140.61	5.9535	-16.847	0.42767	15.989	7.8785

Device Test: 18.15 EA|STATIC/COMP/12/////@EA_GM

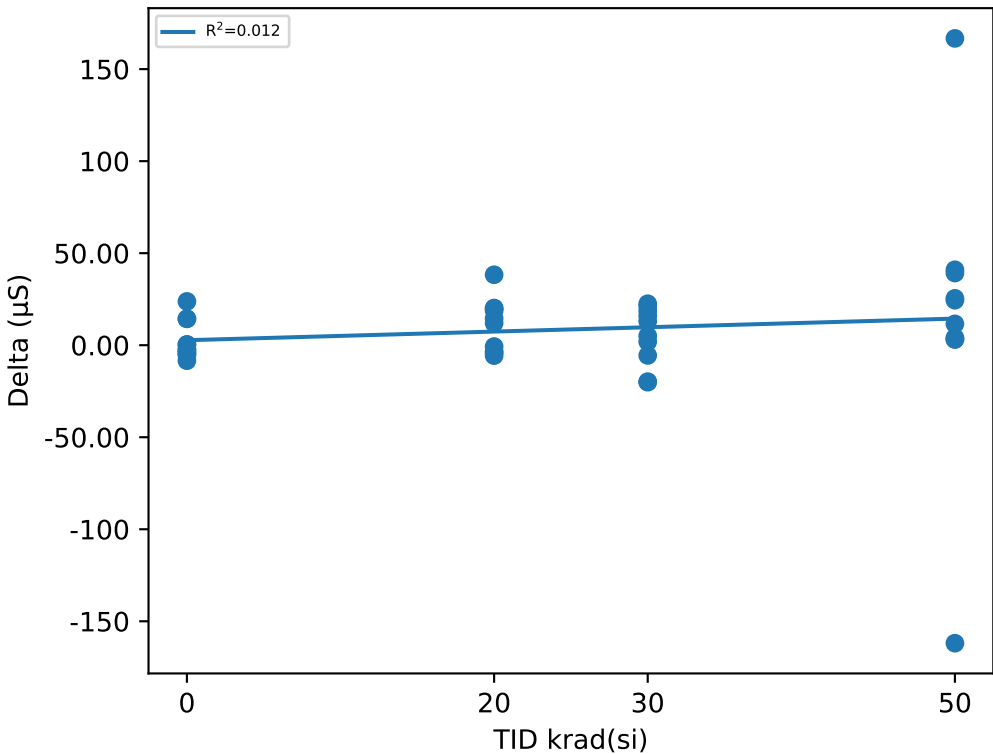
TID vs Result Stats



Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1630.7	1622.2	-8.4118
516	0	CORRELATION	1639.4	1634	-5.3729
721	0	CORRELATION	1508.8	1532.6	23.783
723	0	CORRELATION	1751.4	1748.9	-2.419
729	0	CORRELATION	1513.6	1514	0.3688
990	20	Unbiased	1595.6	1633.8	38.271
991	20	Unbiased	1549.9	1568.7	18.766
992	20	Unbiased	1681.5	1675.9	-5.6606
993	20	Unbiased	1552.2	1566.7	14.531
994	20	Unbiased	1706.5	1703.2	-3.3175
995	20	Biased	1649	1661	11.983
996	20	Biased	1510.9	1531.1	20.207
997	20	Biased	1662.4	1682.3	19.878
998	20	Biased	1684.8	1680.7	-4.0927
999	20	Biased	1586.4	1585.7	-0.7198
1020	30	Unbiased	1601.9	1623.2	21.249
1021	30	Unbiased	1621.4	1634.4	12.984
1022	30	Unbiased	1608.5	1588.7	-19.808
1023	30	Unbiased	1651.9	1653.8	1.897
1024	30	Unbiased	1567.8	1572.8	5.0853
1025	30	Biased	1597.6	1613.6	15.988
1026	30	Biased	1599.8	1618.5	18.667
1027	30	Biased	1690.6	1685	-5.5521
1028	30	Biased	1649.7	1629.6	-20.087
1029	30	Biased	1640.1	1662.6	22.535
1030	50	Unbiased	1545.6	1586.6	40.985
1031	50	Unbiased	1456.2	1459.3	3.1221
1032	50	Unbiased	1577.6	1580.8	3.2255
1033	50	Unbiased	1543.1	1547.2	4.0915
1034	50	Unbiased	1589.6	1614.1	24.447
1035	50	Biased-84Hr-Anneal	1584.3	1609.7	25.454
1036	50	Biased-84Hr-Anneal	1555.6	1594.8	39.214
1037	50	Biased-84Hr-Anneal	1605	1616.6	11.583
1038	50	Biased-84Hr-Anneal	1691.6	1529.7	-161.91
1039	50	Biased-84Hr-Anneal	1536.8	1703.5	166.7

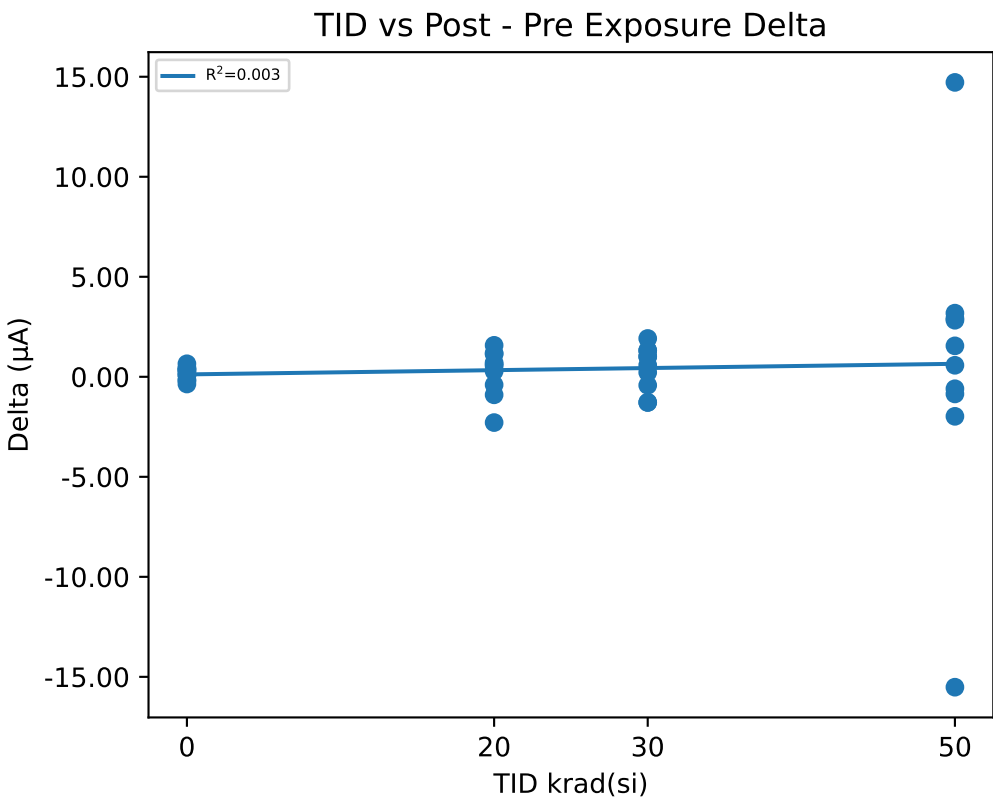
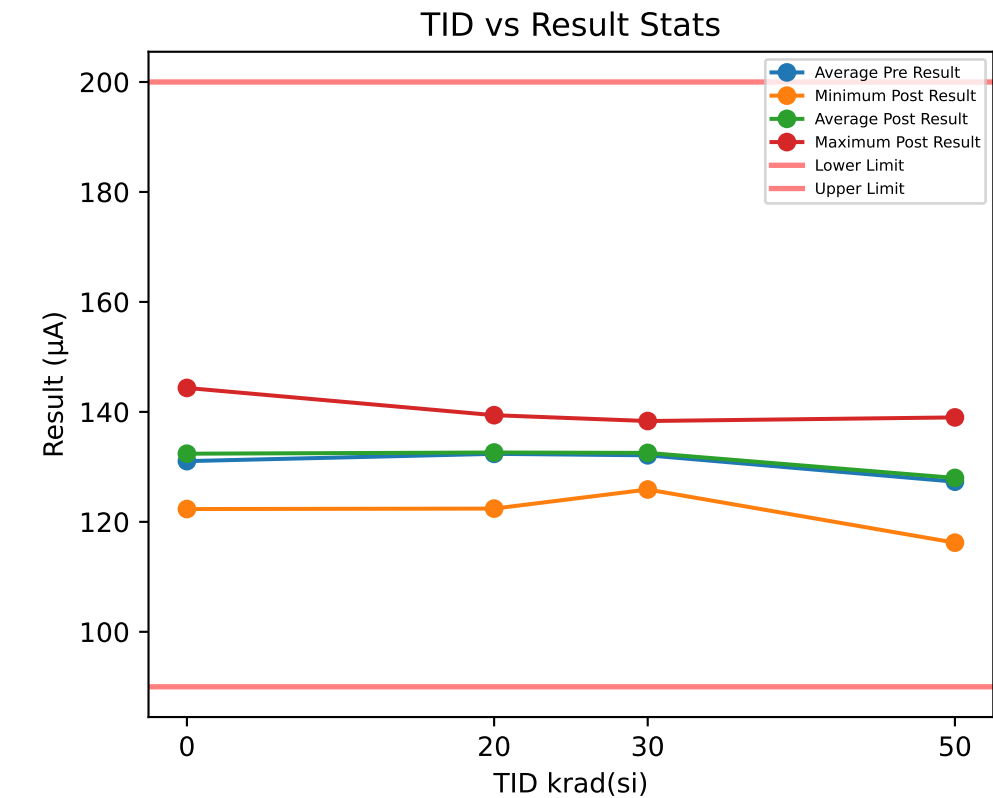
TID vs Post - Pre Exposure Delta



Test Statistics (µS)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1508.8	1608.8	1751.4	100.98	1514	1610.4	1748.9	93.86	-8.4118	1.5896	23.783	12.832
20	1510.9	1617.9	1706.5	67.658	1531.1	1628.9	1703.2	60.766	-5.6606	10.985	38.271	14.255
30	1567.8	1622.9	1690.6	35.427	1572.8	1628.2	1685	33.445	-20.087	5.2958	22.535	16.013
50	1456.2	1568.5	1691.6	59.844	1459.3	1584.2	1703.5	64.03	-161.91	15.691	166.7	79.004

Device Test: 18.16 ERROR_AMP|STATIC/COMP/12////@EA_SOURCE



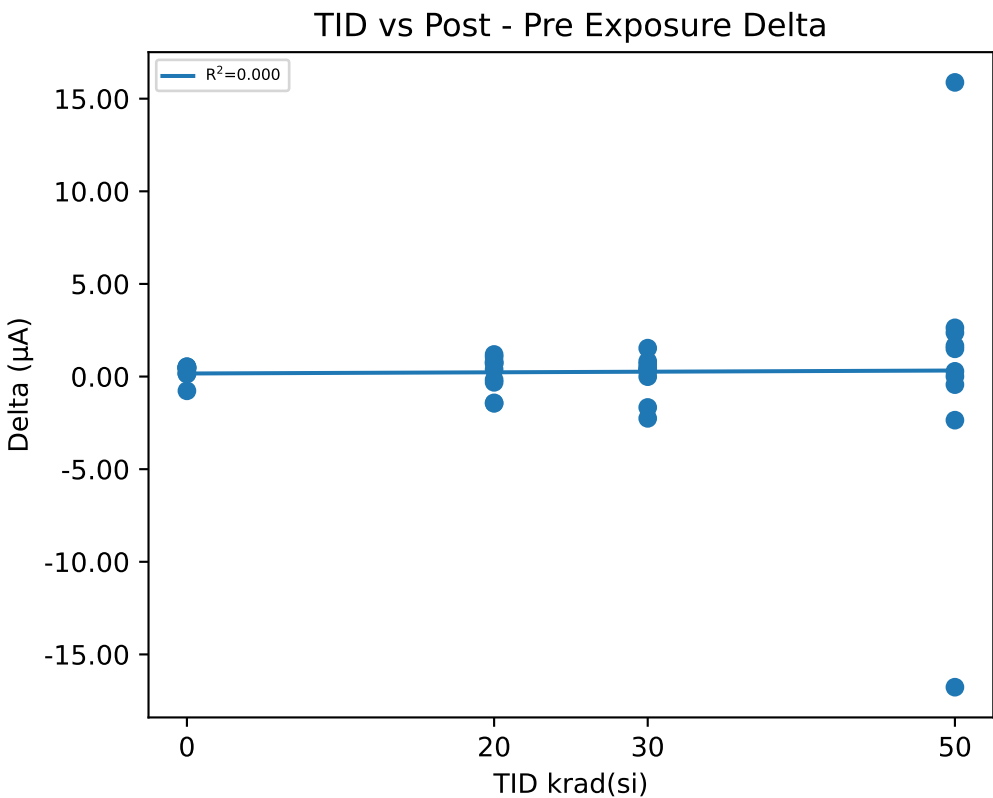
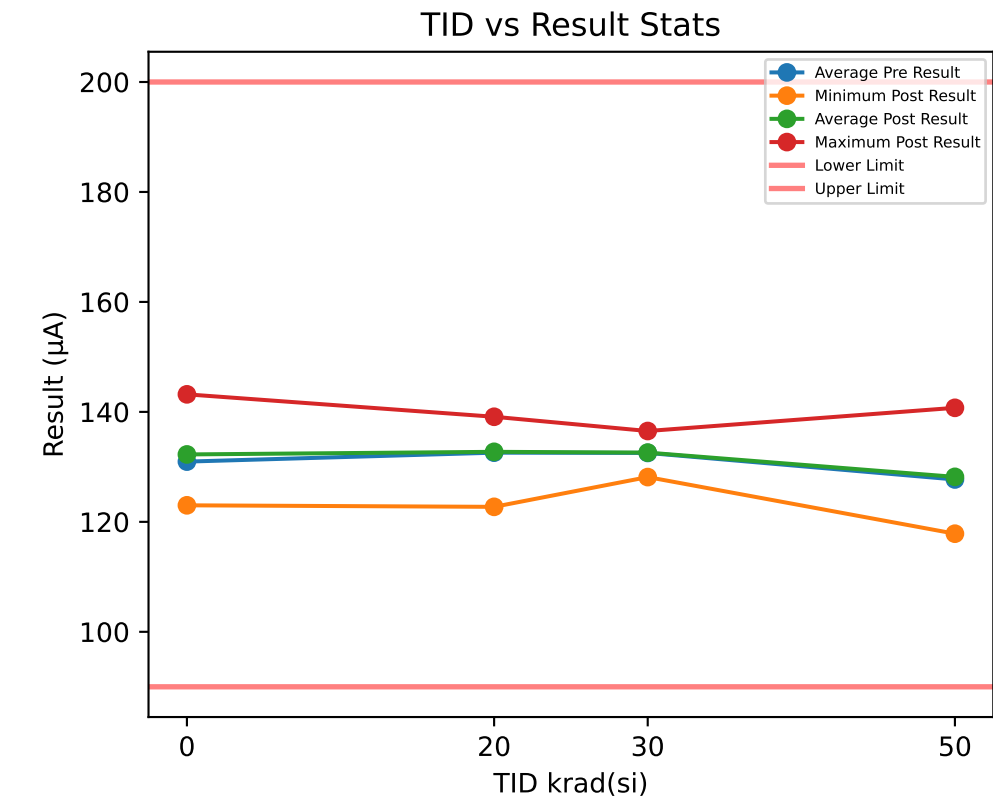
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	132.28	131.91	-0.3605
516	0	CORRELATION	133.78	134.43	0.6512
721	0	CORRELATION	122.73	122.94	0.2095
723	0	CORRELATION	143.93	144.36	0.4248
729	0	CORRELATION	122.5	122.33	-0.1743
990	20	Unbiased	132.2	133.77	1.574
991	20	Unbiased	125.78	126.91	1.1355
992	20	Unbiased	137.84	137.44	-0.4001
993	20	Unbiased	126.36	126.99	0.6271
994	20	Unbiased	141.69	139.4	-2.2881
995	20	Biased	132.98	133.52	0.5433
996	20	Biased	122.13	122.41	0.2778
997	20	Biased	137.02	138.2	1.1805
998	20	Biased	137.56	138.26	0.7054
999	20	Biased	130.14	129.24	-0.9006
1020	30	Unbiased	129.59	130.9	1.3119
1021	30	Unbiased	131.78	132.81	1.0345
1022	30	Unbiased	130.15	130.37	0.2196
1023	30	Unbiased	133.26	134.25	0.9965
1024	30	Unbiased	126.31	125.88	-0.4235
1025	30	Biased	130.46	131.05	0.5813
1026	30	Biased	130.79	132.71	1.9167
1027	30	Biased	139.62	138.34	-1.2779
1028	30	Biased	135.13	133.85	-1.2826
1029	30	Biased	133.95	135.27	1.3233
1030	50	Unbiased	125.08	127.99	2.9165
1031	50	Unbiased	117.07	116.21	-0.8566
1032	50	Unbiased	127.36	125.39	-1.9761
1033	50	Unbiased	125.56	124.96	-0.5974
1034	50	Unbiased	129.14	130.68	1.5476
1035	50	Biased-84Hr-Anneal	127.56	130.39	2.8274
1036	50	Biased-84Hr-Anneal	127.4	130.59	3.1821
1037	50	Biased-84Hr-Anneal	130.92	131.5	0.5759
1038	50	Biased-84Hr-Anneal	138.71	123.19	-15.517
1039	50	Biased-84Hr-Anneal	124.28	139	14.718

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	122.5	131.04	143.93	8.9039	122.33	131.19	144.36	9.0957	-0.3605	0.15014	0.6512	0.41714
20	122.13	132.37	141.69	6.2798	122.41	132.61	139.4	5.9083	-2.2881	0.24548	1.574	1.156
30	126.31	132.1	139.62	3.6302	125.88	132.54	138.34	3.3295	-1.2826	0.43998	1.9167	1.1114
50	117.07	127.31	138.71	5.4628	116.21	127.99	139	6.063	-15.517	0.68199	14.718	7.3568

Device Test: 18.17 ERROR_AMP|STATIC/COMP/12////@EA_SINK



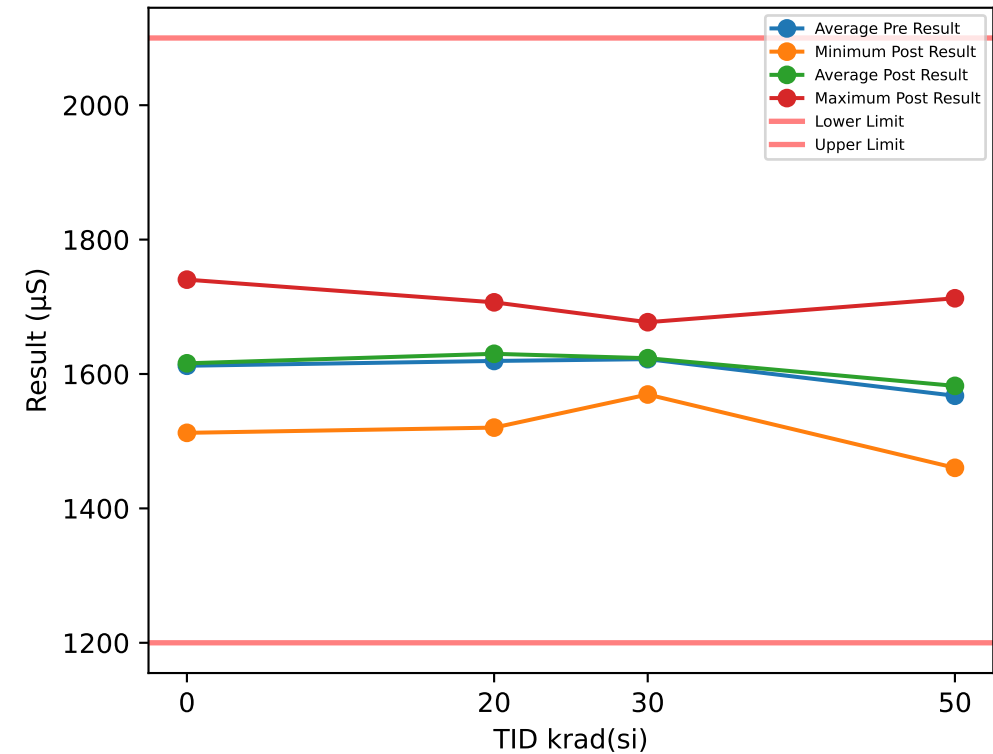
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	133.41	133.61	0.2028
516	0	CORRELATION	133.09	132.32	-0.7705
721	0	CORRELATION	122.62	123.01	0.3897
723	0	CORRELATION	142.66	143.11	0.4515
729	0	CORRELATION	123.01	123.51	0.4948
990	20	Unbiased	130.04	131.1	1.0597
991	20	Unbiased	127.03	128.22	1.1932
992	20	Unbiased	138.71	138.54	-0.1665
993	20	Unbiased	127.42	127.11	-0.3118
994	20	Unbiased	140.56	139.11	-1.4457
995	20	Biased	136.12	136.81	0.6905
996	20	Biased	122.35	122.73	0.3846
997	20	Biased	137.51	138.25	0.7426
998	20	Biased	136.09	136.9	0.8167
999	20	Biased	130.01	128.59	-1.4213
1020	30	Unbiased	130.75	131.23	0.4785
1021	30	Unbiased	132.82	133.64	0.8258
1022	30	Unbiased	129.95	130.24	0.2874
1023	30	Unbiased	134.92	135.31	0.3846
1024	30	Unbiased	127.78	128.14	0.3635
1025	30	Biased	131.21	131.21	-0.0075
1026	30	Biased	129.95	131.48	1.5335
1027	30	Biased	138.19	136.52	-1.6675
1028	30	Biased	134.93	132.67	-2.2568
1029	30	Biased	134.85	135.51	0.6679
1030	50	Unbiased	124.86	127.49	2.63
1031	50	Unbiased	118.28	117.85	-0.4365
1032	50	Unbiased	129.65	127.3	-2.3548
1033	50	Unbiased	124.18	124.19	0.01
1034	50	Unbiased	128.95	130.45	1.4974
1035	50	Biased-84Hr-Anneal	128.87	130.52	1.6564
1036	50	Biased-84Hr-Anneal	127.25	129.61	2.3669
1037	50	Biased-84Hr-Anneal	130.15	130.43	0.2822
1038	50	Biased-84Hr-Anneal	140.04	123.27	-16.769
1039	50	Biased-84Hr-Anneal	124.86	140.74	15.879

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	122.62	130.96	142.66	8.3704	123.01	131.11	143.11	8.2959	-0.7705	0.15366	0.4948	0.52851
20	122.35	132.58	140.56	6.0144	122.73	132.74	139.11	5.8763	-1.4457	0.1542	1.1932	0.96535
30	127.78	132.53	138.19	3.1581	128.14	132.6	136.52	2.6419	-2.2568	0.06094	1.5335	1.1503
50	118.28	127.71	140.04	5.6011	117.85	128.18	140.74	5.996	-16.769	0.47615	15.879	7.8486

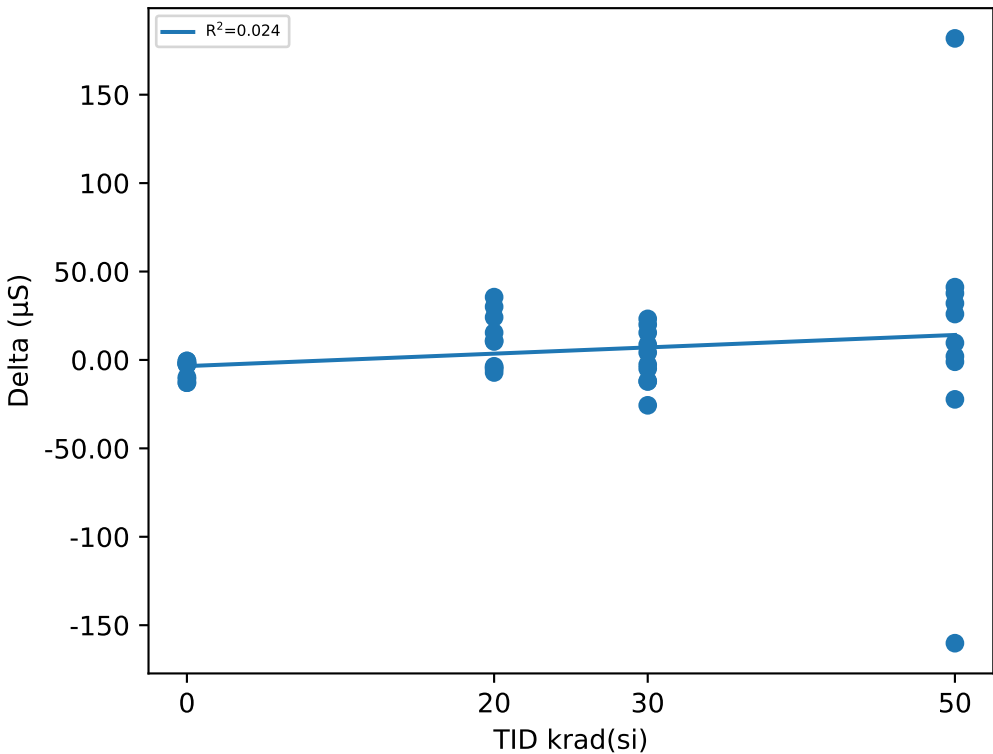
TID vs Result Stats



Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

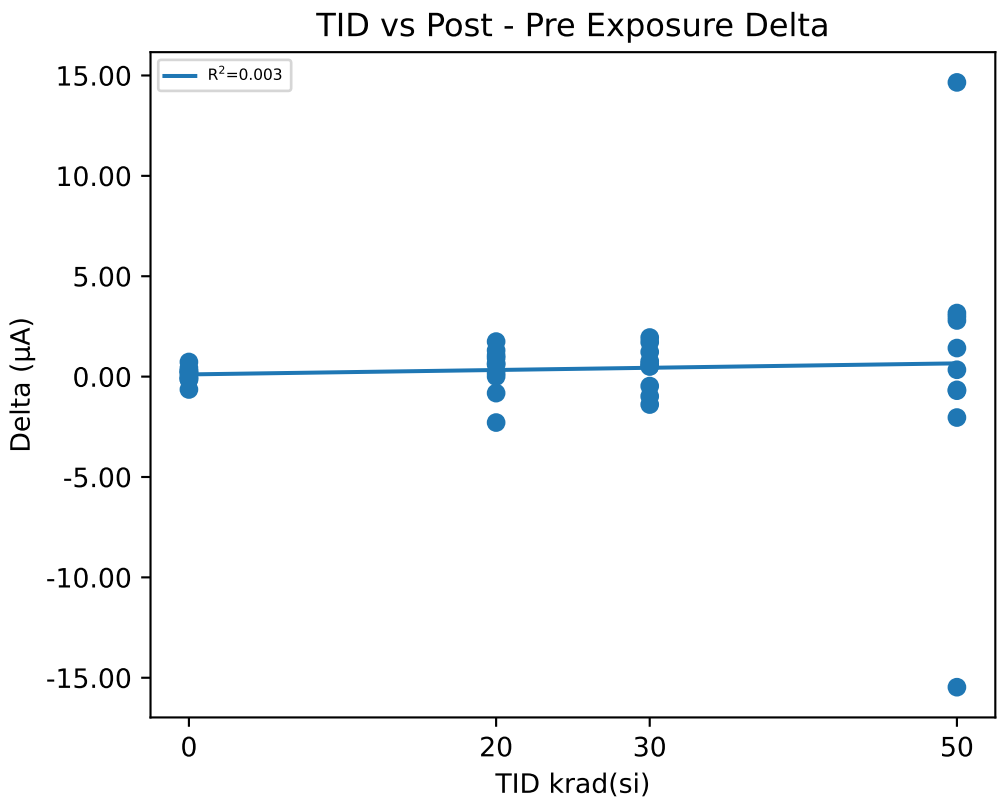
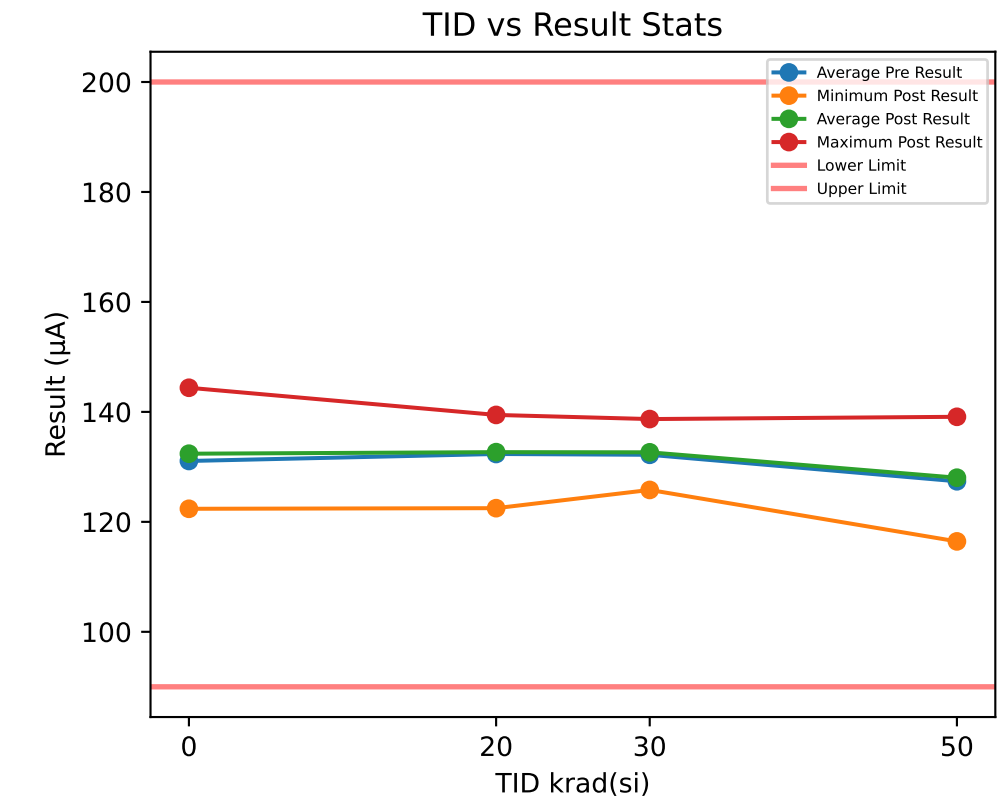
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1625.2	1615.6	-9.6718
516	0	CORRELATION	1647.2	1636.5	-10.677
721	0	CORRELATION	1531.6	1529.4	-2.1432
723	0	CORRELATION	1742.3	1729.4	-12.859
729	0	CORRELATION	1515	1512.4	-2.5403
990	20	Unbiased	1599.5	1629.6	30.084
991	20	Unbiased	1553.2	1577.3	24.114
992	20	Unbiased	1691.4	1686.2	-5.236
993	20	Unbiased	1556.7	1572.2	15.463
994	20	Unbiased	1710.9	1706.6	-4.2815
995	20	Biased	1643.1	1654	10.934
996	20	Biased	1523.8	1520.2	-3.59
997	20	Biased	1660.3	1695.8	35.528
998	20	Biased	1667.1	1677.6	10.435
999	20	Biased	1588.1	1581	-7.1013
1020	30	Unbiased	1601.5	1596.6	-4.9227
1021	30	Unbiased	1621.9	1641.9	20.023
1022	30	Unbiased	1601.3	1589.1	-12.194
1023	30	Unbiased	1651.4	1655.6	4.1965
1024	30	Unbiased	1581.4	1569.5	-11.954
1025	30	Biased	1601.1	1616.5	15.418
1026	30	Biased	1595.7	1604.4	8.6827
1027	30	Biased	1679.7	1677.1	-2.6362
1028	30	Biased	1656	1630.3	-25.658
1029	30	Biased	1630.8	1654	23.232
1030	50	Unbiased	1543.8	1581.5	37.713
1031	50	Unbiased	1461.4	1460.4	-1.0304
1032	50	Unbiased	1580.7	1558.4	-22.289
1033	50	Unbiased	1545.4	1547.4	2.0596
1034	50	Unbiased	1587.9	1613.9	25.959
1035	50	Biased-84Hr-Anneal	1570.8	1611.9	41.162
1036	50	Biased-84Hr-Anneal	1558.4	1590.5	32.023
1037	50	Biased-84Hr-Anneal	1607.2	1616.8	9.6413
1038	50	Biased-84Hr-Anneal	1689.9	1529.7	-160.18
1039	50	Biased-84Hr-Anneal	1530.8	1712.7	181.84

TID vs Post - Pre Exposure Delta



Test Statistics (µS)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1515	1612.3	1742.3	92.559	1512.4	1604.7	1729.4	87.841	-12.859	-7.5783	-2.1432	4.9192
20	1523.8	1619.4	1710.9	64.039	1520.2	1630	1706.6	63.927	-7.1013	10.635	35.528	15.615
30	1581.4	1622.1	1679.7	31.717	1569.5	1623.5	1677.1	34.093	-25.658	1.4188	23.232	15.749
50	1461.4	1567.6	1689.9	58.591	1460.4	1582.3	1712.7	66.283	-160.18	14.69	181.84	82.983



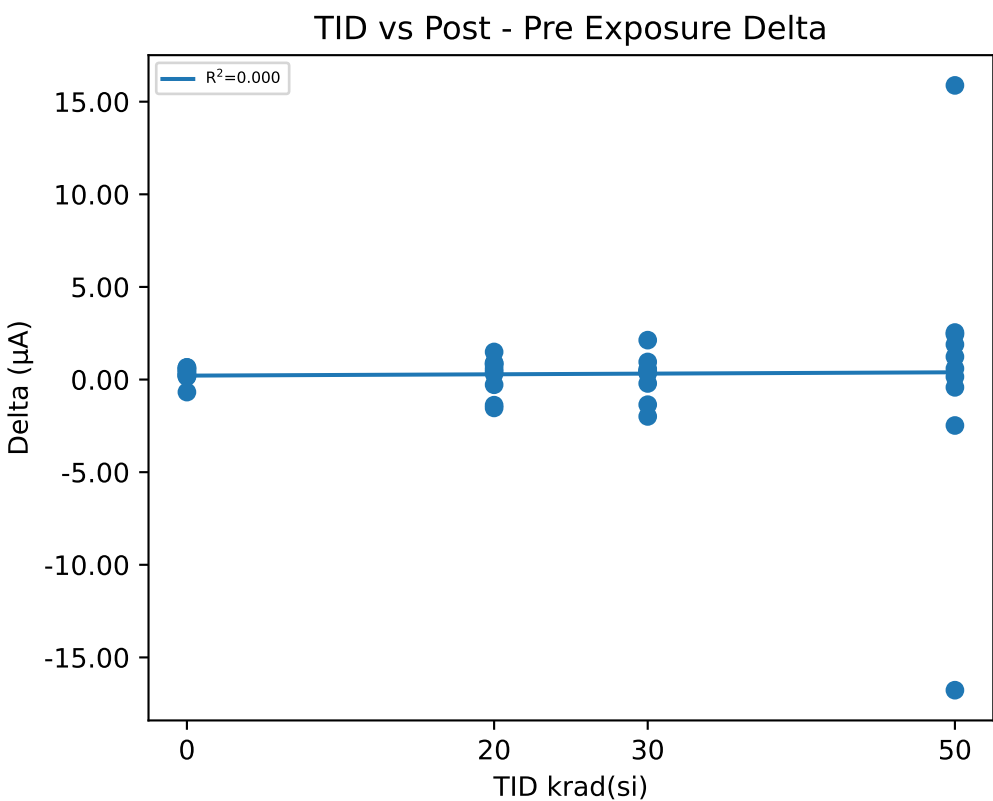
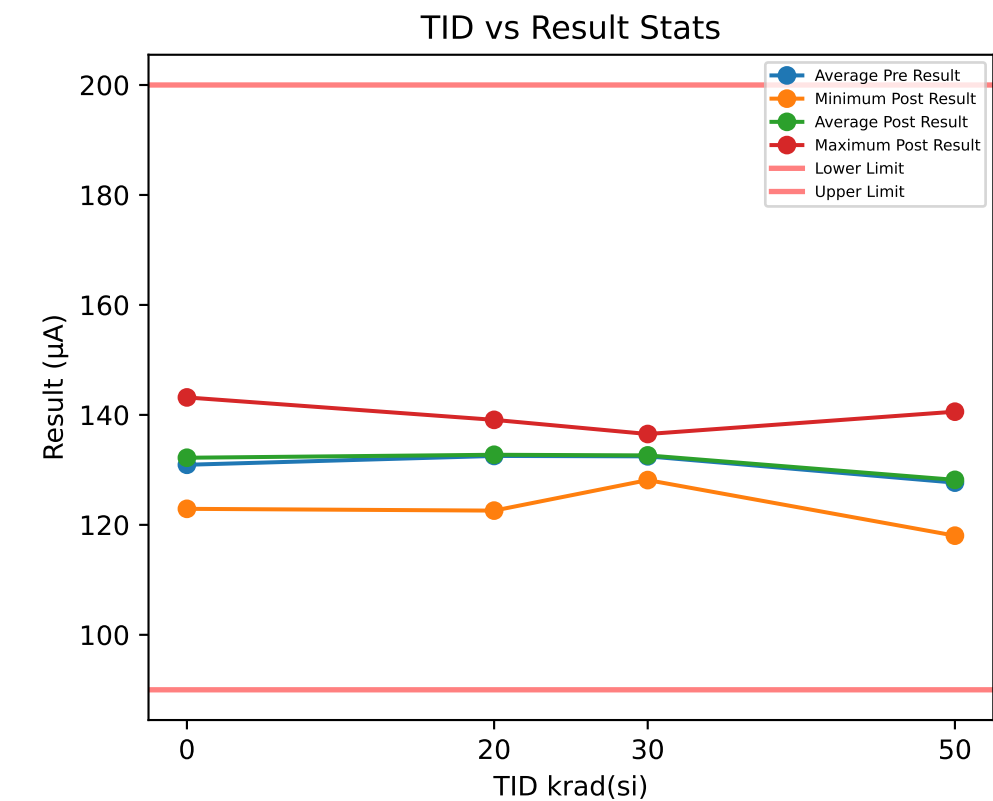
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	132.4	131.76	-0.6416
516	0	CORRELATION	133.79	134.52	0.7291
721	0	CORRELATION	122.54	122.97	0.4279
723	0	CORRELATION	144.1	144.39	0.2846
729	0	CORRELATION	122.52	122.38	-0.1431
990	20	Unbiased	132.09	133.83	1.7455
991	20	Unbiased	125.75	126.8	1.0573
992	20	Unbiased	137.73	137.73	0.0056
993	20	Unbiased	126.33	126.93	0.5959
994	20	Unbiased	141.73	139.45	-2.288
995	20	Biased	133.03	133.69	0.668
996	20	Biased	122.32	122.49	0.1682
997	20	Biased	137.02	138.32	1.3056
998	20	Biased	137.48	138.4	0.9237
999	20	Biased	129.95	129.13	-0.8222
1020	30	Unbiased	129.57	131.29	1.718
1021	30	Unbiased	131.96	132.47	0.5038
1022	30	Unbiased	130.2	130.73	0.532
1023	30	Unbiased	133.59	134.24	0.6535
1024	30	Unbiased	126.27	125.8	-0.4704
1025	30	Biased	130.42	131.19	0.7687
1026	30	Biased	130.86	132.8	1.948
1027	30	Biased	139.68	138.7	-0.9818
1028	30	Biased	135.24	133.85	-1.3919
1029	30	Biased	134.18	135.41	1.2292
1030	50	Unbiased	125.17	128.16	2.9947
1031	50	Unbiased	117.15	116.45	-0.7008
1032	50	Unbiased	127.39	125.36	-2.0385
1033	50	Unbiased	125.5	124.84	-0.6601
1034	50	Unbiased	129.2	130.62	1.4227
1035	50	Biased-84Hr-Anneal	127.51	130.31	2.7964
1036	50	Biased-84Hr-Anneal	127.42	130.59	3.1664
1037	50	Biased-84Hr-Anneal	131.26	131.6	0.3414
1038	50	Biased-84Hr-Anneal	138.74	123.27	-15.47
1039	50	Biased-84Hr-Anneal	124.45	139.11	14.655

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	122.52	131.07	144.1	9.0118	122.38	131.2	144.39	9.0943	-0.6416	0.13138	0.7291	0.53421
20	122.32	132.34	141.73	6.2518	122.49	132.68	139.45	5.9848	-2.288	0.33596	1.7455	1.1707
30	126.27	132.2	139.68	3.683	125.8	132.65	138.7	3.3785	-1.3919	0.45091	1.948	1.1006
50	117.15	127.38	138.74	5.4698	116.45	128.03	139.11	6.0377	-15.47	0.6507	14.655	7.3327

Device Test: 18.23 ERROR_AMP|STATIC/COMP/14////@EA_SINK



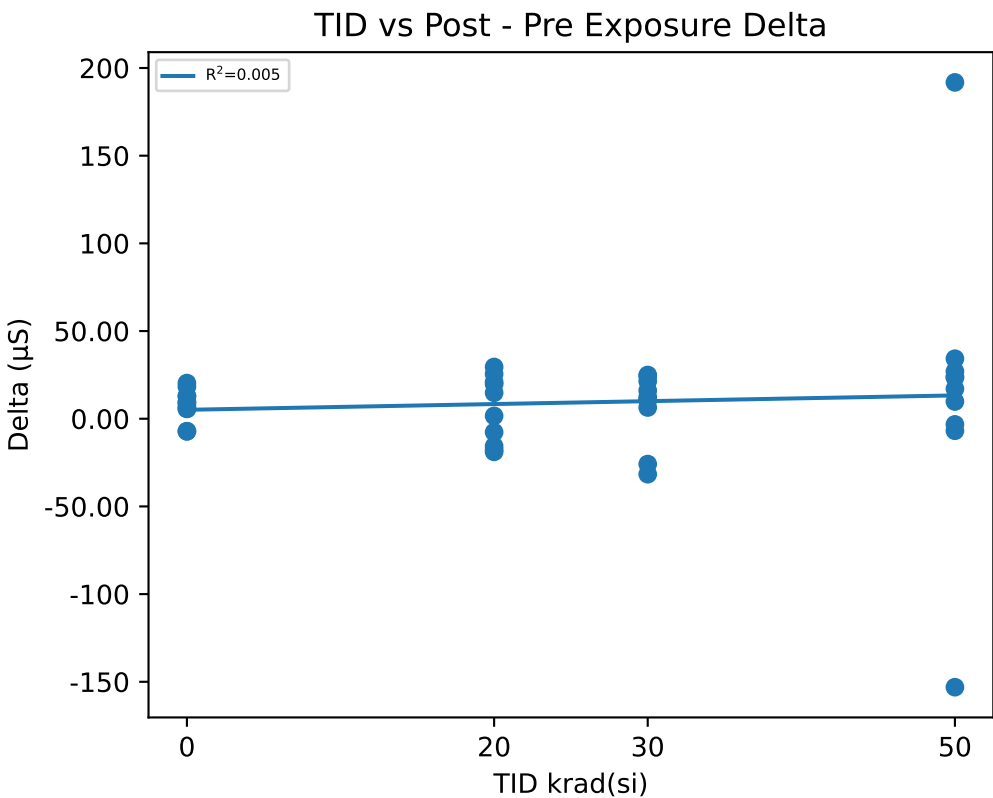
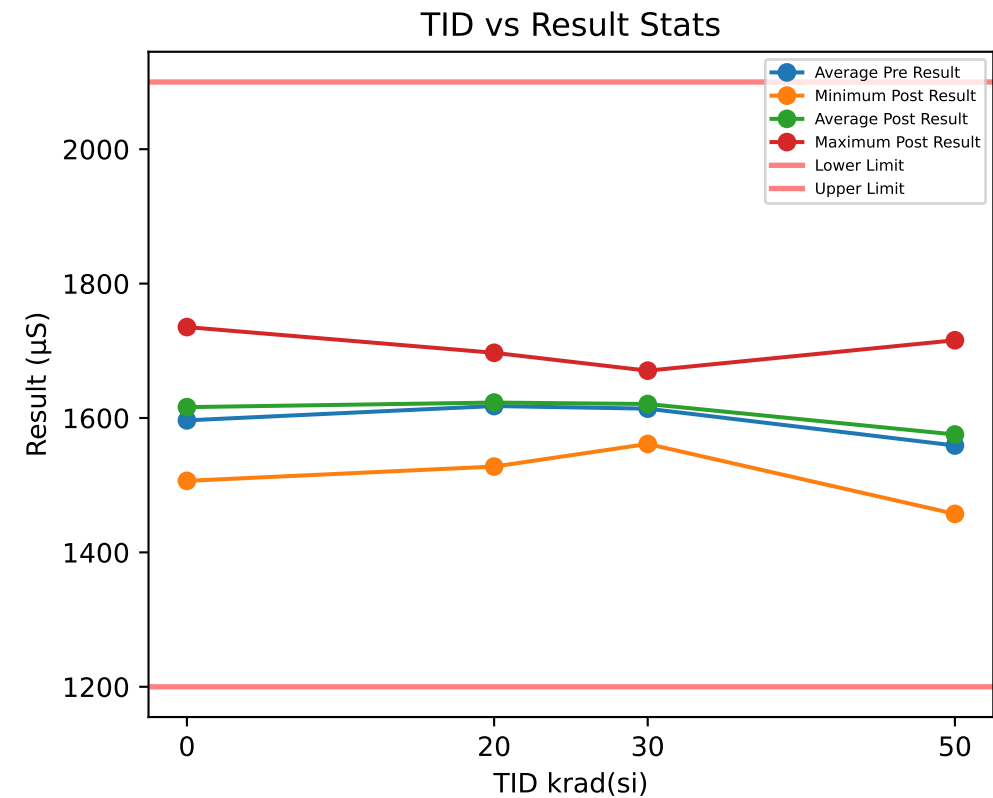
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	133.43	133.58	0.1561
516	0	CORRELATION	133.04	132.36	-0.6769
721	0	CORRELATION	122.73	122.91	0.1868
723	0	CORRELATION	142.52	143.18	0.6542
729	0	CORRELATION	122.92	123.3	0.3853
990	20	Unbiased	130.1	130.97	0.8727
991	20	Unbiased	126.89	128.38	1.4901
992	20	Unbiased	138.5	138.93	0.4265
993	20	Unbiased	127.22	126.94	-0.2805
994	20	Unbiased	140.48	139.1	-1.3834
995	20	Biased	136.2	136.78	0.5812
996	20	Biased	122.28	122.59	0.3069
997	20	Biased	137.43	138.33	0.8987
998	20	Biased	136.04	136.82	0.7856
999	20	Biased	130.17	128.64	-1.5308
1020	30	Unbiased	130.67	131.07	0.4004
1021	30	Unbiased	132.61	133.56	0.9505
1022	30	Unbiased	130.03	130.49	0.4592
1023	30	Unbiased	134.63	135.2	0.5718
1024	30	Unbiased	127.81	128.14	0.3324
1025	30	Biased	131.29	131.08	-0.2105
1026	30	Biased	129.89	132.01	2.1271
1027	30	Biased	137.88	136.52	-1.3559
1028	30	Biased	134.85	132.86	-1.9912
1029	30	Biased	134.92	135.39	0.4651
1030	50	Unbiased	125	127.44	2.4425
1031	50	Unbiased	118.45	118.03	-0.4213
1032	50	Unbiased	129.82	127.34	-2.4796
1033	50	Unbiased	124.05	124.21	0.1503
1034	50	Unbiased	129.06	130.29	1.2321
1035	50	Biased-84Hr-Anneal	128.74	130.63	1.8904
1036	50	Biased-84Hr-Anneal	127.25	129.78	2.5388
1037	50	Biased-84Hr-Anneal	129.83	130.43	0.5945
1038	50	Biased-84Hr-Anneal	139.88	123.11	-16.769
1039	50	Biased-84Hr-Anneal	124.7	140.58	15.879

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	122.73	130.93	142.52	8.3149	122.91	131.07	143.18	8.3875	-0.6769	0.1411	0.6542	0.49858
20	122.28	132.53	140.48	6.0113	122.59	132.75	139.1	5.9503	-1.5308	0.2167	1.4901	0.9937
30	127.81	132.46	137.88	3.0658	128.14	132.63	136.52	2.5866	-1.9912	0.17489	2.1271	1.1544
50	118.45	127.68	139.88	5.5338	118.03	128.18	140.58	5.9407	-16.769	0.50578	15.879	7.8529

Device Test: 18.3 EA|STATIC/COMP/4.5////@EA_GM



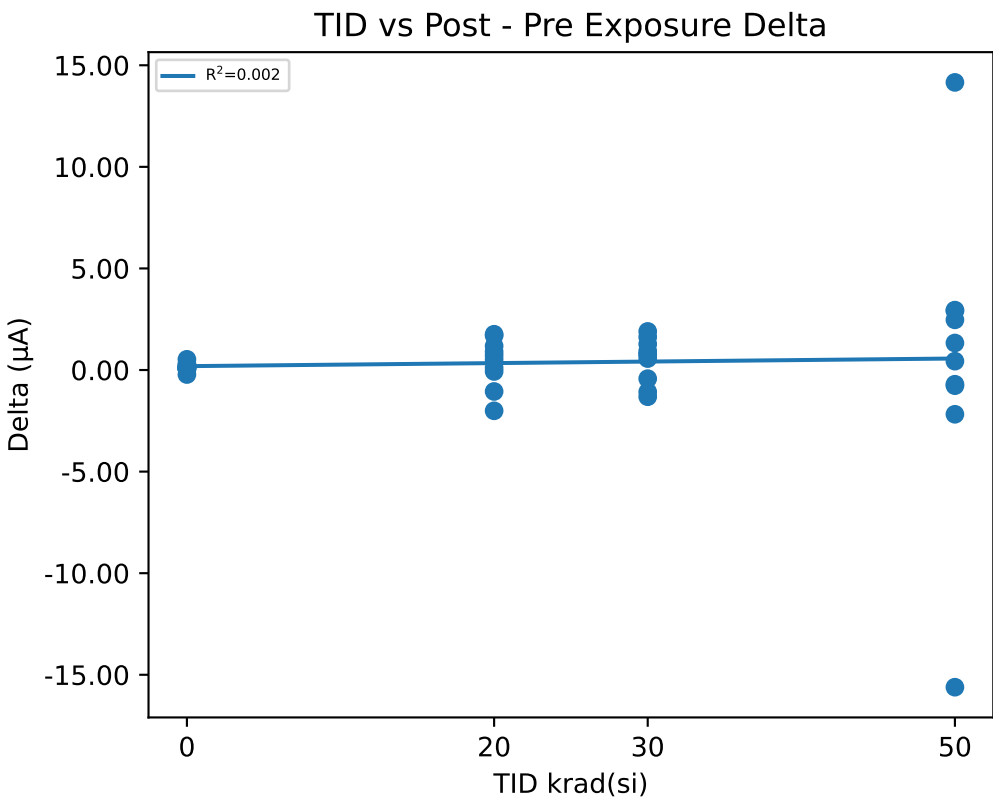
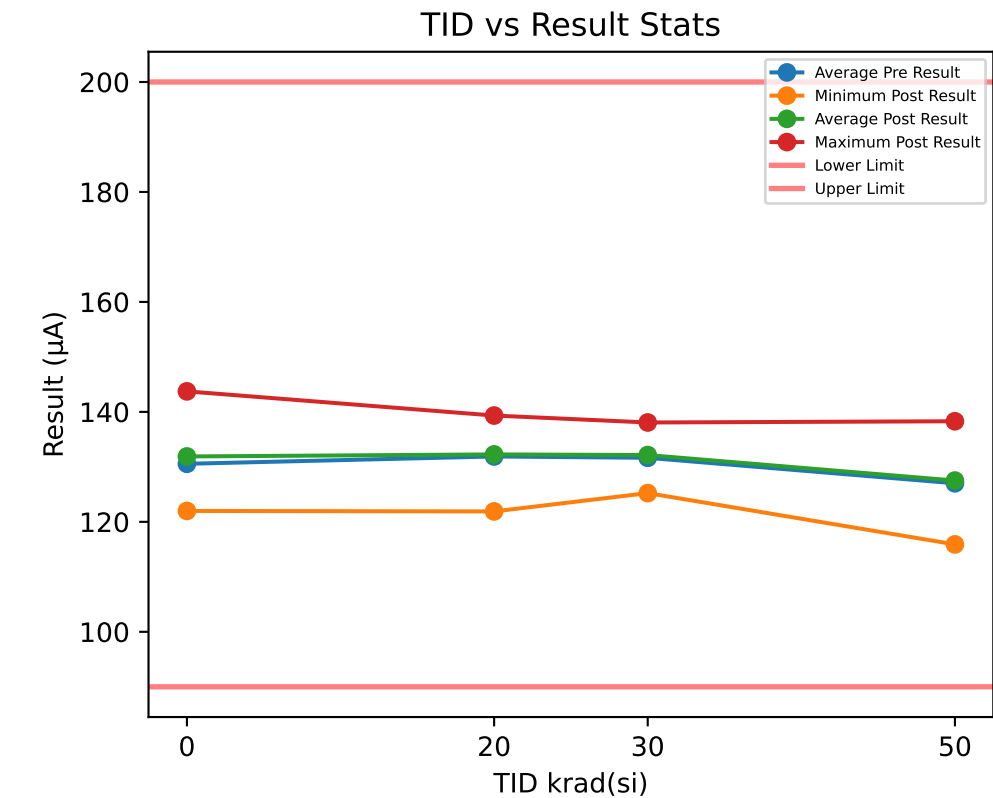
Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1616.1	1623.4	7.2791
516	0	CORRELATION	1616.5	1634.7	18.239
721	0	CORRELATION	1513.9	1534.2	20.336
723	0	CORRELATION	1722.4	1731.7	9.316
729	0	CORRELATION	1513.6	1519.3	5.6538
990	20	Unbiased	1596.9	1626.4	29.52
991	20	Unbiased	1551.7	1553.3	1.6235
992	20	Unbiased	1694.6	1686.9	-7.6675
993	20	Unbiased	1567.5	1548.6	-18.881
994	20	Unbiased	1712.7	1697	-15.652
995	20	Biased	1639.6	1660.5	20.894
996	20	Biased	1508	1527.7	19.712
997	20	Biased	1660.1	1674.9	14.791
998	20	Biased	1657.3	1682.8	25.541
999	20	Biased	1589.4	1571.7	-17.675
1020	30	Unbiased	1589.2	1605.3	16.08
1021	30	Unbiased	1616.3	1622.7	6.4096
1022	30	Unbiased	1582.4	1607.3	24.937
1023	30	Unbiased	1640.6	1651	10.381
1024	30	Unbiased	1549	1561.4	12.34
1025	30	Biased	1589.4	1600.2	10.832
1026	30	Biased	1589.1	1613.4	24.366
1027	30	Biased	1702	1670.4	-31.622
1028	30	Biased	1647.9	1622	-25.857
1029	30	Biased	1633	1654.4	21.394
1030	50	Unbiased	1544.8	1571.8	26.999
1031	50	Unbiased	1464.1	1457.3	-6.8485
1032	50	Unbiased	1564.1	1560.9	-3.2307
1033	50	Unbiased	1529.3	1539.1	9.8207
1034	50	Unbiased	1576.2	1600.1	23.834
1035	50	Biased-84Hr-Anneal	1579.2	1596.2	17.046
1036	50	Biased-84Hr-Anneal	1559.7	1593.9	34.229
1037	50	Biased-84Hr-Anneal	1586.8	1610.4	23.571
1038	50	Biased-84Hr-Anneal	1662.2	1509.2	-153.08
1039	50	Biased-84Hr-Anneal	1523.9	1715.7	191.79

Test Statistics (µS)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1513.6	1596.5	1722.4	87.085	1519.3	1608.6	1731.7	85.988	5.6538	12.165	20.336	6.6716
20	1508	1617.8	1712.7	65.758	1527.7	1623	1697	66.12	-18.881	5.2207	29.52	19.063
30	1549	1613.9	1702	43.514	1561.4	1620.8	1670.4	31.525	-31.622	6.9262	24.937	19.83
50	1464.1	1559	1662.2	51.075	1457.3	1575.5	1715.7	68.447	-153.08	16.413	191.79	82.322

Device Test: 18.4 ERROR_AMP|STATIC/COMP/4.5////@EA_SOURCE



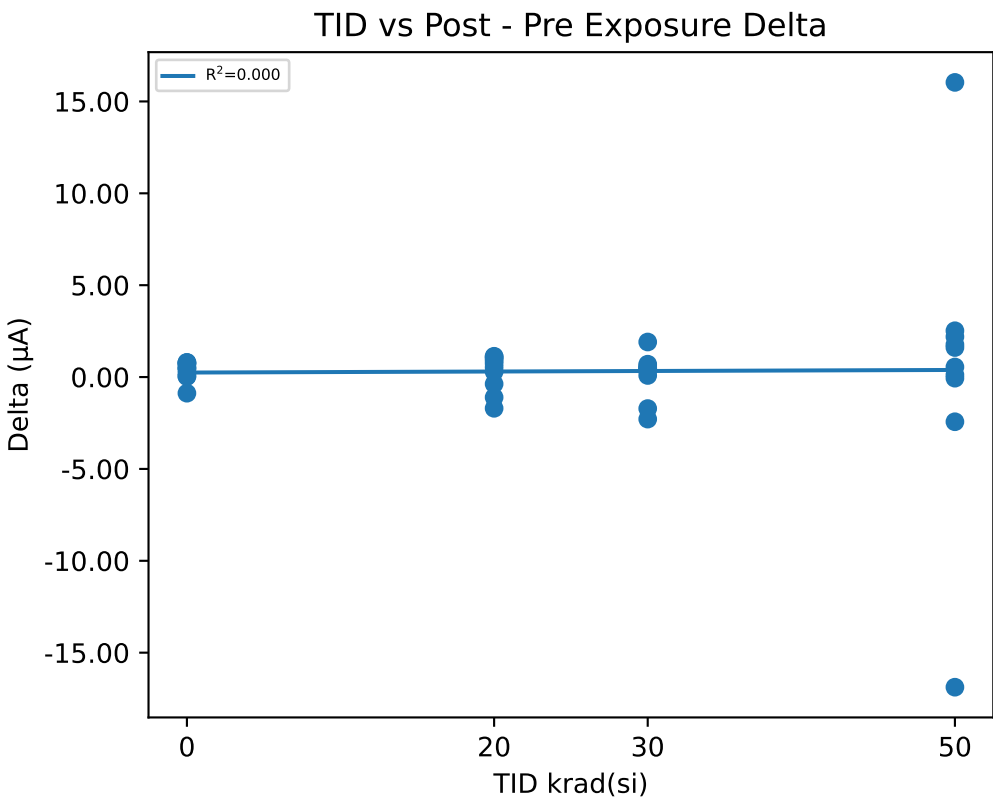
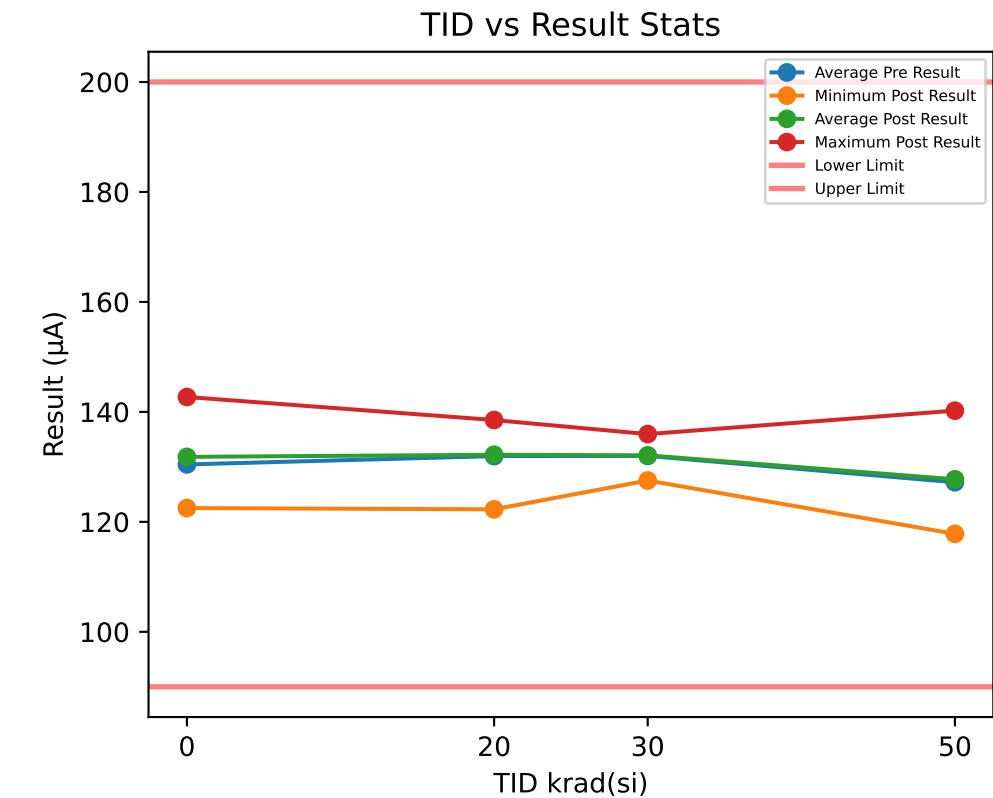
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	131.64	131.41	-0.2213
516	0	CORRELATION	133.35	133.88	0.5272
721	0	CORRELATION	122.31	122.44	0.1308
723	0	CORRELATION	143.59	143.73	0.1432
729	0	CORRELATION	121.91	121.99	0.0743
990	20	Unbiased	131.75	133.51	1.761
991	20	Unbiased	125.34	126.52	1.1821
992	20	Unbiased	137.35	137.28	-0.0716
993	20	Unbiased	125.79	126.31	0.5184
994	20	Unbiased	141.34	139.34	-2.0078
995	20	Biased	132.37	133.27	0.903
996	20	Biased	121.79	121.9	0.1073
997	20	Biased	136.31	138.01	1.6948
998	20	Biased	137.23	137.95	0.7209
999	20	Biased	129.65	128.6	-1.0553
1020	30	Unbiased	129.24	130.87	1.6244
1021	30	Unbiased	131.45	132.23	0.7841
1022	30	Unbiased	129.61	130.17	0.5633
1023	30	Unbiased	132.81	133.74	0.9346
1024	30	Unbiased	125.65	125.23	-0.4252
1025	30	Biased	129.9	130.67	0.7688
1026	30	Biased	130.34	132.24	1.9002
1027	30	Biased	139.15	138.07	-1.0753
1028	30	Biased	134.7	133.38	-1.314
1029	30	Biased	133.63	134.91	1.2771
1030	50	Unbiased	124.83	127.77	2.9477
1031	50	Unbiased	116.6	115.9	-0.6997
1032	50	Unbiased	127.18	125	-2.1786
1033	50	Unbiased	125.18	124.41	-0.7703
1034	50	Unbiased	128.72	130.04	1.3299
1035	50	Biased-84Hr-Anneal	127.31	129.78	2.4696
1036	50	Biased-84Hr-Anneal	127.19	130.1	2.9163
1037	50	Biased-84Hr-Anneal	130.69	131.12	0.4362
1038	50	Biased-84Hr-Anneal	138.31	122.69	-15.611
1039	50	Biased-84Hr-Anneal	124.14	138.29	14.157

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	121.91	130.56	143.59	8.9663	121.99	130.69	143.73	9.0086	-0.2213	0.13084	0.5272	0.26667
20	121.79	131.89	141.34	6.2783	121.9	132.27	139.34	6.0783	-2.0078	0.37528	1.761	1.1892
30	125.65	131.65	139.15	3.6748	125.23	132.15	138.07	3.374	-1.314	0.5038	1.9002	1.0956
50	116.6	127.01	138.31	5.4659	115.9	127.51	138.29	5.9776	-15.611	0.49965	14.157	7.2473

Device Test: 18.5 ERROR_AMP|STATIC/COMP/4.5////@EA_SINK



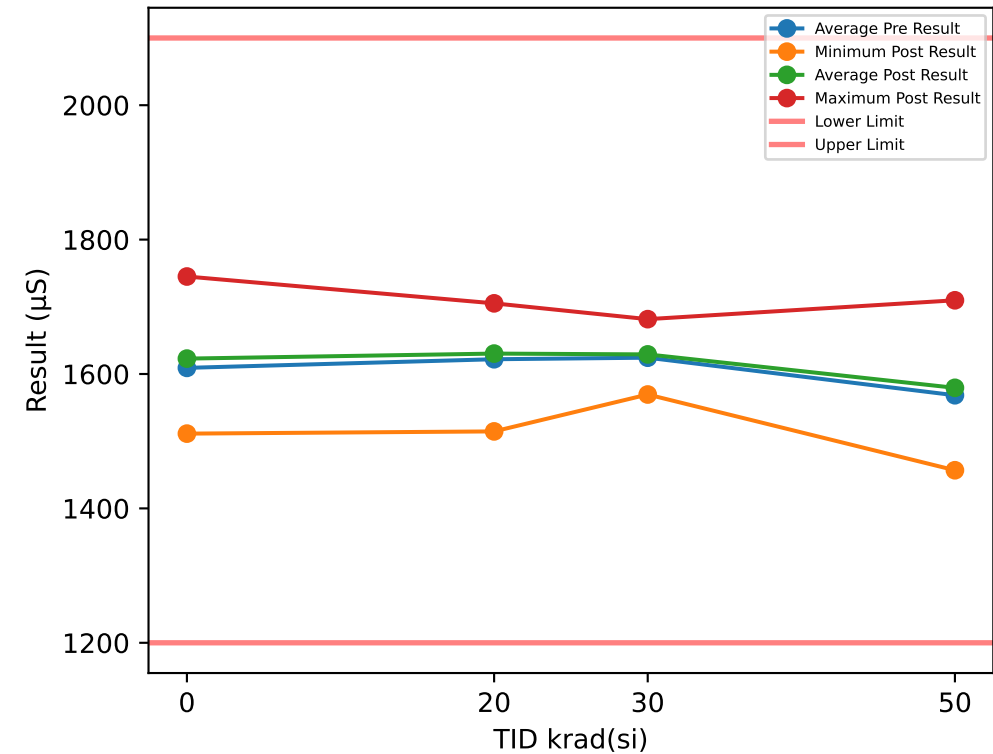
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	133	133.22	0.2176
516	0	CORRELATION	132.49	131.62	-0.8787
721	0	CORRELATION	122.09	122.51	0.4202
723	0	CORRELATION	141.91	142.71	0.7936
729	0	CORRELATION	122.71	123.22	0.5098
990	20	Unbiased	129.71	130.72	1.013
991	20	Unbiased	126.68	127.78	1.0994
992	20	Unbiased	137.85	138.13	0.2875
993	20	Unbiased	126.7	126.33	-0.3737
994	20	Unbiased	139.62	138.52	-1.1044
995	20	Biased	135.65	136.39	0.738
996	20	Biased	121.75	122.28	0.5265
997	20	Biased	136.68	137.82	1.1316
998	20	Biased	135.43	136.33	0.8943
999	20	Biased	129.45	127.75	-1.7006
1020	30	Unbiased	130.19	130.79	0.6036
1021	30	Unbiased	132.22	132.92	0.7
1022	30	Unbiased	129.43	129.92	0.4906
1023	30	Unbiased	134.28	134.76	0.4785
1024	30	Unbiased	127.17	127.52	0.3462
1025	30	Biased	130.78	130.86	0.0863
1026	30	Biased	129.53	131.43	1.9078
1027	30	Biased	137.68	135.96	-1.7143
1028	30	Biased	134.43	132.14	-2.2882
1029	30	Biased	134.22	134.66	0.4353
1030	50	Unbiased	124.45	126.97	2.5204
1031	50	Unbiased	117.88	117.81	-0.0615
1032	50	Unbiased	129.01	126.58	-2.4323
1033	50	Unbiased	123.91	124.03	0.1186
1034	50	Unbiased	128.56	130.17	1.6072
1035	50	Biased-84Hr-Anneal	128.37	130.13	1.7666
1036	50	Biased-84Hr-Anneal	126.75	128.94	2.1948
1037	50	Biased-84Hr-Anneal	129.51	130.05	0.5485
1038	50	Biased-84Hr-Anneal	139.38	122.5	-16.879
1039	50	Biased-84Hr-Anneal	124.19	140.22	16.036

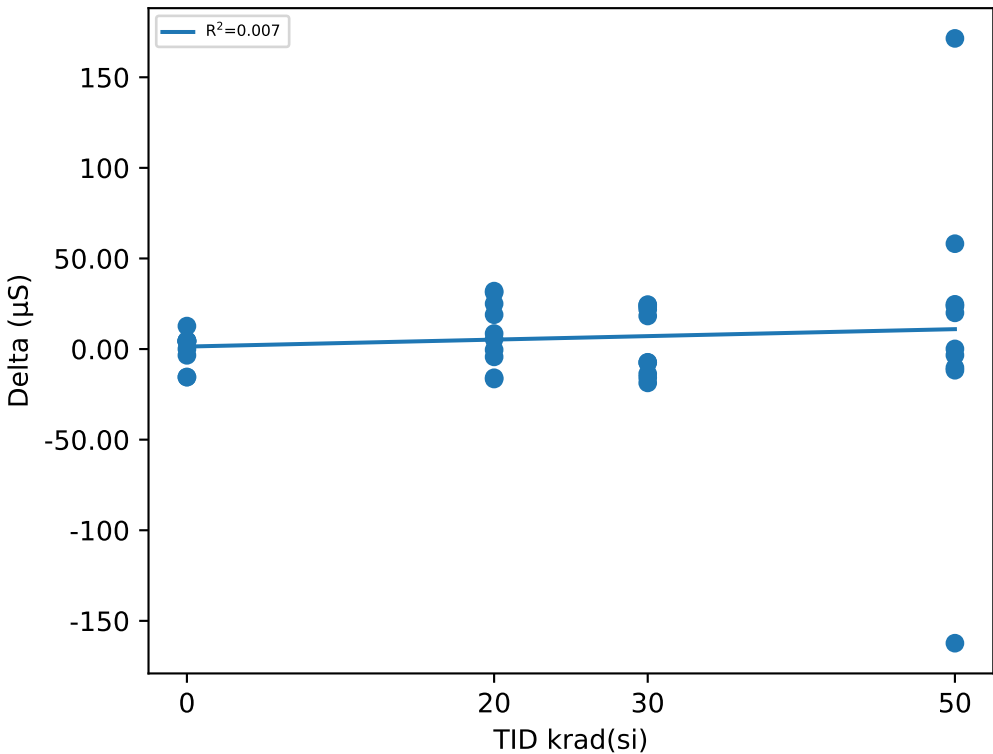
Test Statistics (µA)

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	122.09	130.44	141.91	8.2447	122.51	130.66	142.71	8.2821	-0.8787	0.2125	0.7936	0.64419
20	121.75	131.95	139.62	5.8916	122.28	132.2	138.52	5.9221	-1.7006	0.25116	1.1316	0.99108
30	127.17	131.99	137.68	3.1466	127.52	132.1	135.96	2.5522	-2.2882	0.10458	1.9078	1.2177
50	117.88	127.2	139.38	5.5251	117.81	127.74	140.22	5.9244	-16.879	0.54196	16.036	7.9038

TID vs Result Stats



TID vs Post - Pre Exposure Delta



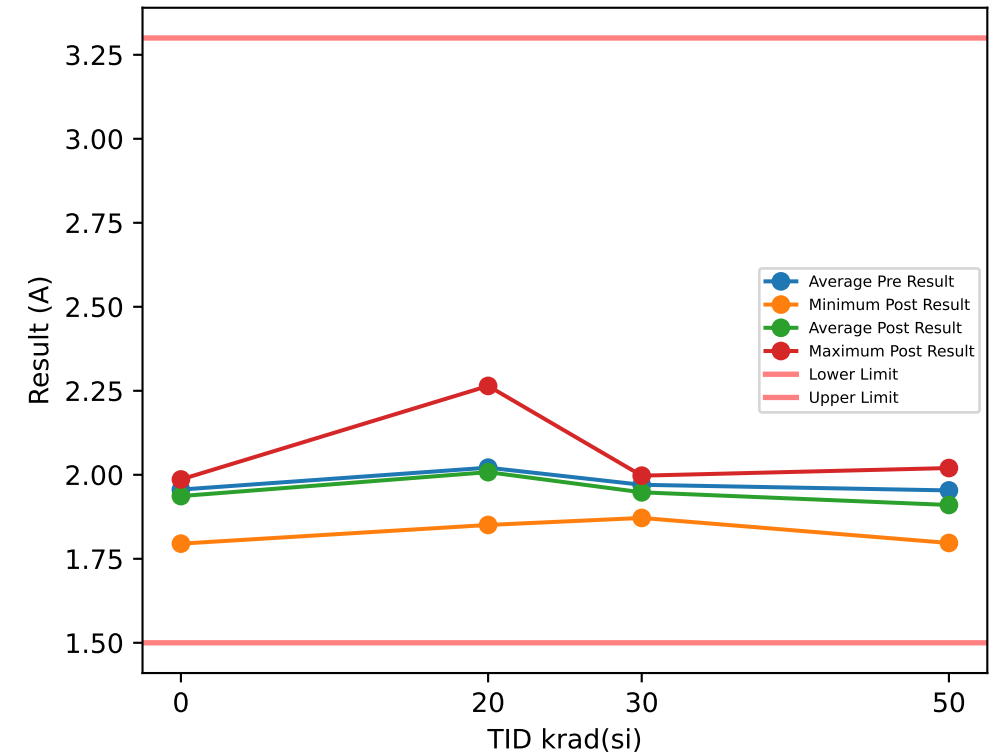
Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1630.4	1626.9	-3.4546
516	0	CORRELATION	1621.4	1634	12.68
721	0	CORRELATION	1526.6	1526.7	0.0347
723	0	CORRELATION	1740.5	1744.5	4.0721
729	0	CORRELATION	1526.7	1511.3	-15.465
990	20	Unbiased	1611.9	1643.2	31.243
991	20	Unbiased	1548.9	1580.9	31.976
992	20	Unbiased	1692.7	1676.1	-16.53
993	20	Unbiased	1562.5	1568	5.4834
994	20	Unbiased	1709.4	1705.1	-4.3087
995	20	Biased	1644.4	1669.5	25.028
996	20	Biased	1515	1514.6	-0.4104
997	20	Biased	1679.2	1687.8	8.5648
998	20	Biased	1662.9	1681.9	18.962
999	20	Biased	1592.6	1576.8	-15.844
1020	30	Unbiased	1611.8	1593.1	-18.672
1021	30	Unbiased	1622.8	1646	23.26
1022	30	Unbiased	1610.9	1595.1	-15.799
1023	30	Unbiased	1639.3	1657.5	18.252
1024	30	Unbiased	1576.8	1569.5	-7.3016
1025	30	Biased	1590.9	1615.1	24.237
1026	30	Biased	1601.1	1625.7	24.521
1027	30	Biased	1689.1	1681.6	-7.4832
1028	30	Biased	1659	1645.3	-13.667
1029	30	Biased	1640.8	1662.6	21.862
1030	50	Unbiased	1521.9	1580	58.147
1031	50	Unbiased	1467	1456.8	-10.28
1032	50	Unbiased	1579	1579.1	0.0817
1033	50	Unbiased	1541.5	1538.1	-3.3848
1034	50	Unbiased	1583	1607.7	24.688
1035	50	Biased-84Hr-Anneal	1576.6	1600.4	23.71
1036	50	Biased-84Hr-Anneal	1572.2	1592.2	19.986
1037	50	Biased-84Hr-Anneal	1613.3	1601.6	-11.69
1038	50	Biased-84Hr-Anneal	1690.9	1528.6	-162.33
1039	50	Biased-84Hr-Anneal	1538.2	1709.7	171.45

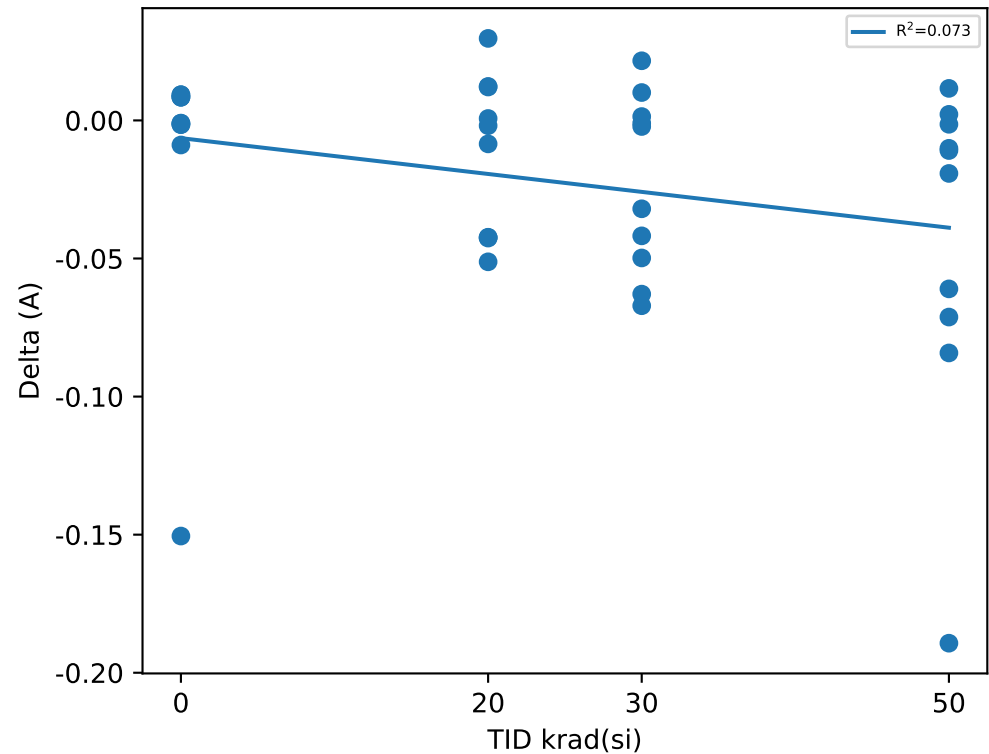
Test Statistics (µS)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1526.6	1609.1	1740.5	88.67	1511.3	1608.7	1744.5	94.409	-15.465	-0.42642	12.68	10.339
20	1515	1622	1709.4	66.158	1514.6	1630.4	1705.1	64.933	-16.53	8.4165	31.976	18.02
30	1576.8	1624.2	1689.1	33.576	1569.5	1629.2	1681.6	35.668	-18.672	4.921	24.521	18.836
50	1467	1568.4	1690.9	59.164	1456.8	1579.4	1709.7	65.15	-162.33	11.038	171.45	81.468

TID vs Result Stats



TID vs Post - Pre Exposure Delta



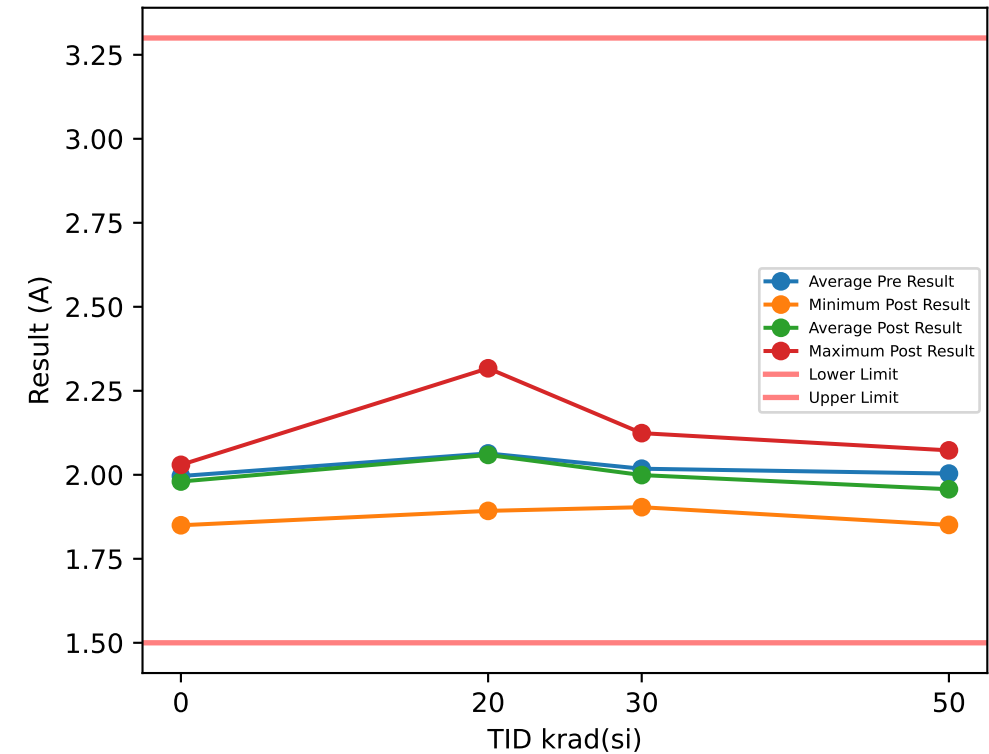
Test Results (Lower Limit = 1.5, Upper Limit = 3.3 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.9456	1.7951	-0.1505
516	0	CORRELATION	1.9759	1.967	-0.0089
721	0	CORRELATION	1.9776	1.9861	0.0085
723	0	CORRELATION	1.9459	1.9552	0.0093
729	0	CORRELATION	1.9352	1.9342	-0.001
990	20	Unbiased	2.0198	1.9775	-0.0423
991	20	Unbiased	2.0289	1.9863	-0.0426
992	20	Unbiased	2.1138	2.0626	-0.0512
993	20	Unbiased	1.8931	1.8507	-0.0424
994	20	Unbiased	1.9352	1.9333	-0.0019
995	20	Biased	2.0395	2.031	-0.0085
996	20	Biased	1.9543	1.9664	0.0121
997	20	Biased	2.031	2.0607	0.0297
998	20	Biased	2.2638	2.2645	0.0007
999	20	Biased	1.9332	1.9455	0.0123
1020	30	Unbiased	1.9871	1.9849	-0.0022
1021	30	Unbiased	1.9037	1.9138	0.0101
1022	30	Unbiased	1.9648	1.9662	0.0014
1023	30	Unbiased	1.9666	1.9882	0.0216
1024	30	Unbiased	1.9984	1.9974	-0.001
1025	30	Biased	2.0182	1.9553	-0.0629
1026	30	Biased	2.031	1.9639	-0.0671
1027	30	Biased	1.9036	1.8716	-0.032
1028	30	Biased	1.9751	1.9333	-0.0418
1029	30	Biased	1.9539	1.9041	-0.0498
1030	50	Unbiased	1.9648	1.9547	-0.0101
1031	50	Unbiased	1.8379	1.8401	0.0022
1032	50	Unbiased	2.031	2.0201	-0.0109
1033	50	Unbiased	1.8397	1.8383	-0.0014
1034	50	Unbiased	1.9336	1.9144	-0.0192
1035	50	Biased-84Hr-Anneal	1.9851	1.9139	-0.0712
1036	50	Biased-84Hr-Anneal	2.0705	1.9863	-0.0842
1037	50	Biased-84Hr-Anneal	1.9958	1.9348	-0.061
1038	50	Biased-84Hr-Anneal	1.8904	1.902	0.0116
1039	50	Biased-84Hr-Anneal	1.9864	1.7971	-0.1893

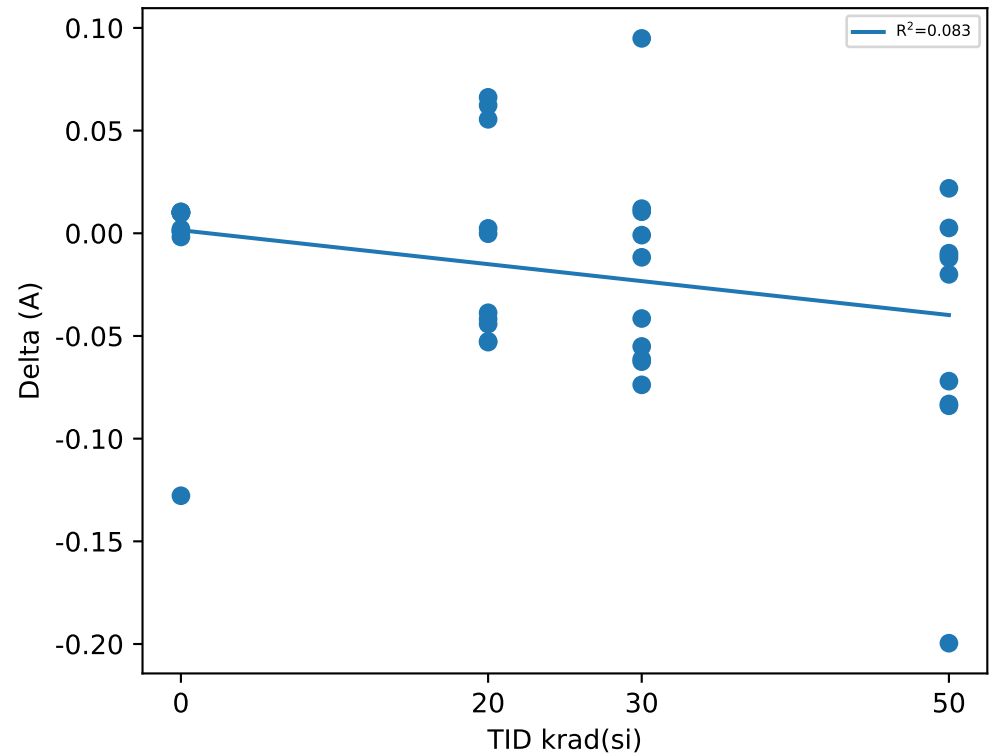
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9352	1.956	1.9776	0.0194	1.7951	1.9275	1.9861	0.076381	-0.1505	-0.02852	0.0093	0.068597
20	1.8931	2.0213	2.2638	0.10747	1.8507	2.0078	2.2645	0.11027	-0.0512	-0.01341	0.0297	0.028831
30	1.9036	1.9702	2.031	0.042519	1.8716	1.9479	1.9974	0.041103	-0.0671	-0.02237	0.0216	0.032115
50	1.8379	1.9535	2.0705	0.077735	1.7971	1.9102	2.0201	0.069465	-0.1893	-0.04335	0.0116	0.061149

TID vs Result Stats



TID vs Post - Pre Exposure Delta



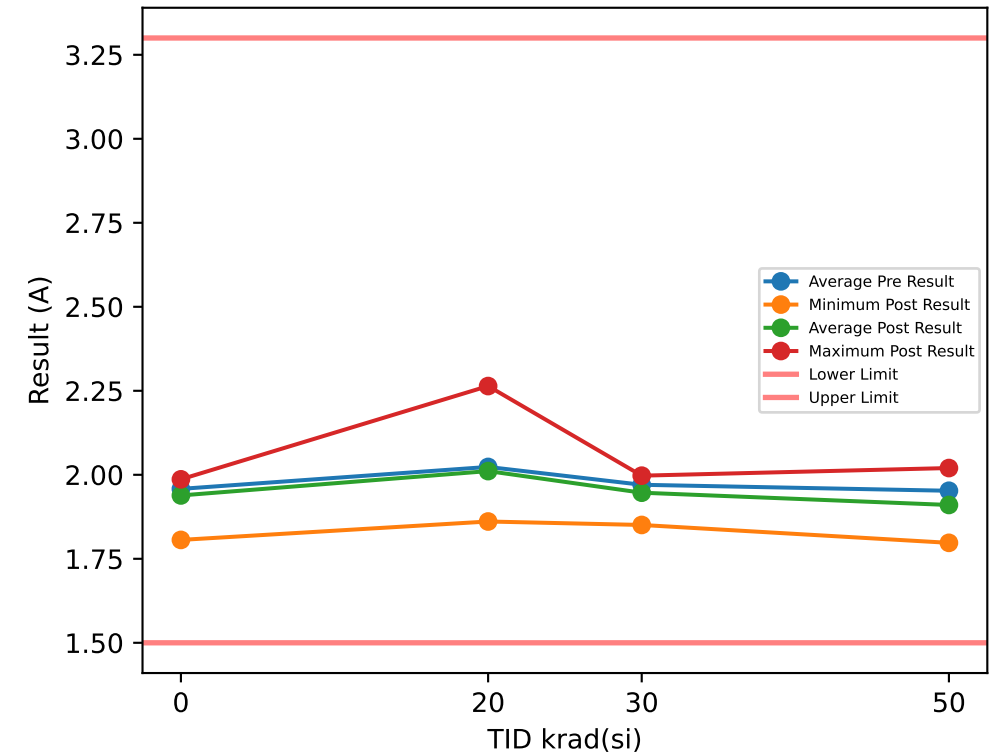
Test Results (Lower Limit = 1.5, Upper Limit = 3.3 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.9776	1.8498	-0.1278
516	0	CORRELATION	2.0186	2.0207	0.0021
721	0	CORRELATION	2.0314	2.0296	-0.0018
723	0	CORRELATION	1.9984	1.9994	0.001
729	0	CORRELATION	1.9558	1.9662	0.0104
990	20	Unbiased	2.0727	2.0201	-0.0526
991	20	Unbiased	2.083	2.0413	-0.0417
992	20	Unbiased	2.1554	2.1167	-0.0387
993	20	Unbiased	1.9456	1.8926	-0.053
994	20	Unbiased	1.9882	1.944	-0.0442
995	20	Biased	2.0395	2.095	0.0555
996	20	Biased	1.9646	2.0308	0.0662
997	20	Biased	2.0839	2.1462	0.0623
998	20	Biased	2.3172	2.317	-0.0002
999	20	Biased	1.9858	1.9882	0.0024
1020	30	Unbiased	2.0291	2.124	0.0949
1021	30	Unbiased	1.9563	1.9446	-0.0117
1022	30	Unbiased	2.0075	2.0195	0.012
1023	30	Unbiased	2.0096	2.0201	0.0105
1024	30	Unbiased	2.0521	2.0512	-0.0009
1025	30	Biased	2.0711	2.0086	-0.0625
1026	30	Biased	2.0736	2.0185	-0.0551
1027	30	Biased	1.9451	1.9036	-0.0415
1028	30	Biased	2.0289	1.9551	-0.0738
1029	30	Biased	2.0077	1.9464	-0.0613
1030	50	Unbiased	2.0075	1.9978	-0.0097
1031	50	Unbiased	1.8806	1.8832	0.0026
1032	50	Unbiased	2.0835	2.0727	-0.0108
1033	50	Unbiased	1.893	1.881	-0.012
1034	50	Unbiased	1.9759	1.9559	-0.02
1035	50	Biased-84Hr-Anneal	2.0384	1.9664	-0.072
1036	50	Biased-84Hr-Anneal	2.1242	2.0402	-0.084
1037	50	Biased-84Hr-Anneal	2.0495	1.9664	-0.0831
1038	50	Biased-84Hr-Anneal	1.9335	1.9554	0.0219
1039	50	Biased-84Hr-Anneal	2.0504	1.8508	-0.1996

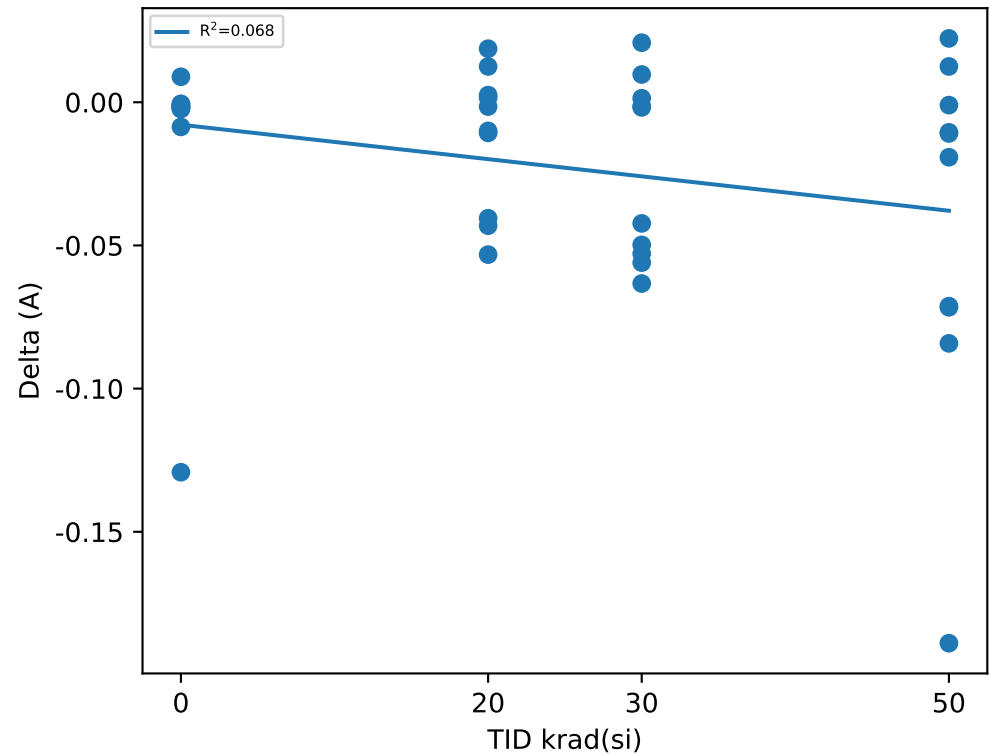
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9558	1.9964	2.0314	0.030511	1.8498	1.9731	2.0296	0.073144	-0.1278	-0.02322	0.0104	0.058638
20	1.9456	2.0636	2.3172	0.11038	1.8926	2.0592	2.317	0.11895	-0.053	-0.0044	0.0662	0.049354
30	1.9451	2.0181	2.0736	0.043107	1.9036	1.9992	2.124	0.063633	-0.0738	-0.01894	0.0949	0.051294
50	1.8806	2.0036	2.1242	0.081305	1.8508	1.957	2.0727	0.070439	-0.1996	-0.04667	0.0219	0.065359

TID vs Result Stats



TID vs Post - Pre Exposure Delta



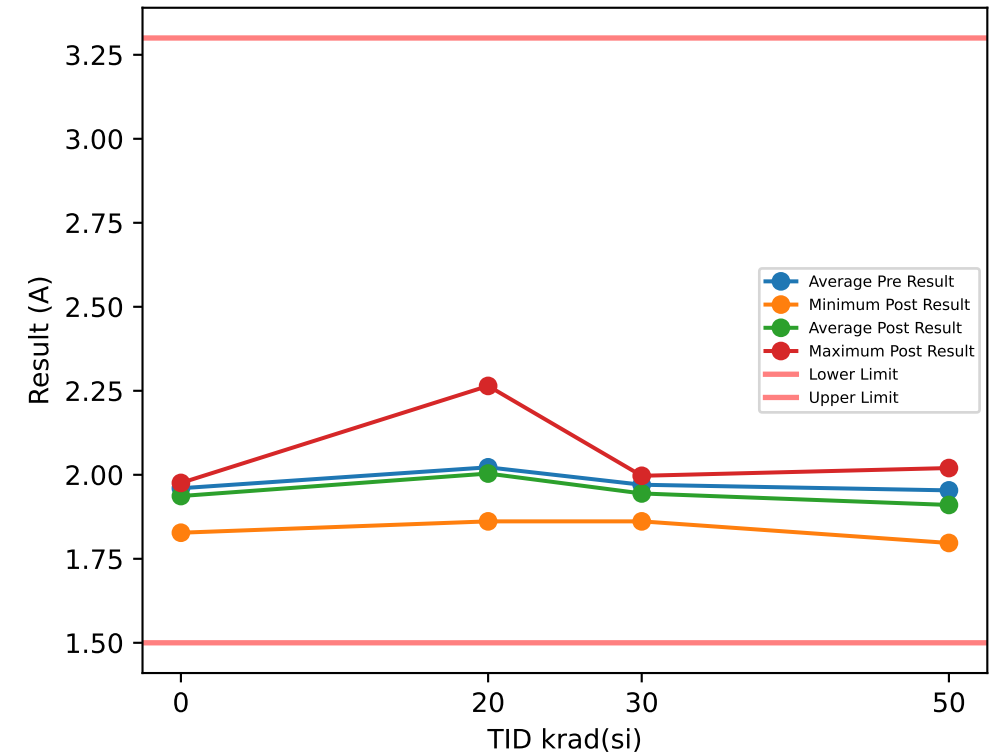
Test Results (Lower Limit = 1.5, Upper Limit = 3.3 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.9354	1.8062	-0.1292
516	0	CORRELATION	1.9862	1.9776	-0.0086
721	0	CORRELATION	1.9776	1.9865	0.0089
723	0	CORRELATION	1.9562	1.9548	-0.0014
729	0	CORRELATION	1.9352	1.9346	-0.0006
990	20	Unbiased	2.0095	1.9988	-0.0107
991	20	Unbiased	2.0391	1.9859	-0.0532
992	20	Unbiased	2.1035	2.063	-0.0405
993	20	Unbiased	1.9041	1.861	-0.0431
994	20	Unbiased	1.9348	1.9333	-0.0015
995	20	Biased	2.0395	2.042	0.0025
996	20	Biased	1.9543	1.9668	0.0125
997	20	Biased	2.031	2.0497	0.0187
998	20	Biased	2.2741	2.2641	-0.01
999	20	Biased	1.9439	1.9455	0.0016
1020	30	Unbiased	1.9867	1.9849	-0.0018
1021	30	Unbiased	1.9037	1.9134	0.0097
1022	30	Unbiased	1.9755	1.9769	0.0014
1023	30	Unbiased	1.9674	1.9882	0.0208
1024	30	Unbiased	1.9988	1.9974	-0.0014
1025	30	Biased	2.0182	1.9549	-0.0633
1026	30	Biased	2.0199	1.9639	-0.056
1027	30	Biased	1.893	1.8507	-0.0423
1028	30	Biased	1.9858	1.9329	-0.0529
1029	30	Biased	1.9539	1.9041	-0.0498
1030	50	Unbiased	1.9652	1.9543	-0.0109
1031	50	Unbiased	1.8276	1.8401	0.0125
1032	50	Unbiased	2.0306	2.0201	-0.0105
1033	50	Unbiased	1.8397	1.8387	-0.001
1034	50	Unbiased	1.9332	1.914	-0.0192
1035	50	Biased-84Hr-Anneal	1.9851	1.9139	-0.0712
1036	50	Biased-84Hr-Anneal	2.0705	1.9863	-0.0842
1037	50	Biased-84Hr-Anneal	1.9962	1.9246	-0.0716
1038	50	Biased-84Hr-Anneal	1.8904	1.9127	0.0223
1039	50	Biased-84Hr-Anneal	1.9864	1.7975	-0.1889

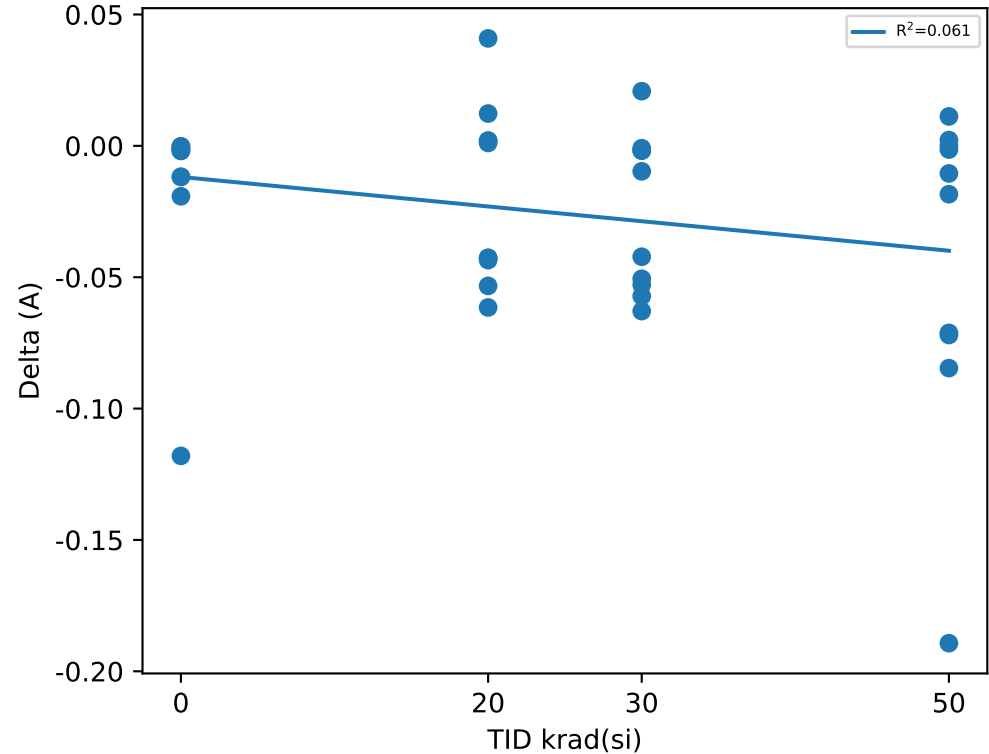
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9352	1.9581	1.9862	0.023522	1.8062	1.9319	1.9865	0.073147	-0.1292	-0.02618	0.0089	0.057925
20	1.9041	2.0234	2.2741	0.10708	1.861	2.011	2.2641	0.1079	-0.0532	-0.01237	0.0187	0.024787
30	1.893	1.9703	2.0199	0.043194	1.8507	1.9467	1.9974	0.046377	-0.0633	-0.02356	0.0208	0.031961
50	1.8276	1.9525	2.0705	0.079484	1.7975	1.9102	2.0201	0.068947	-0.1889	-0.04227	0.0223	0.063555

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.5, Upper Limit = 3.3 (A))

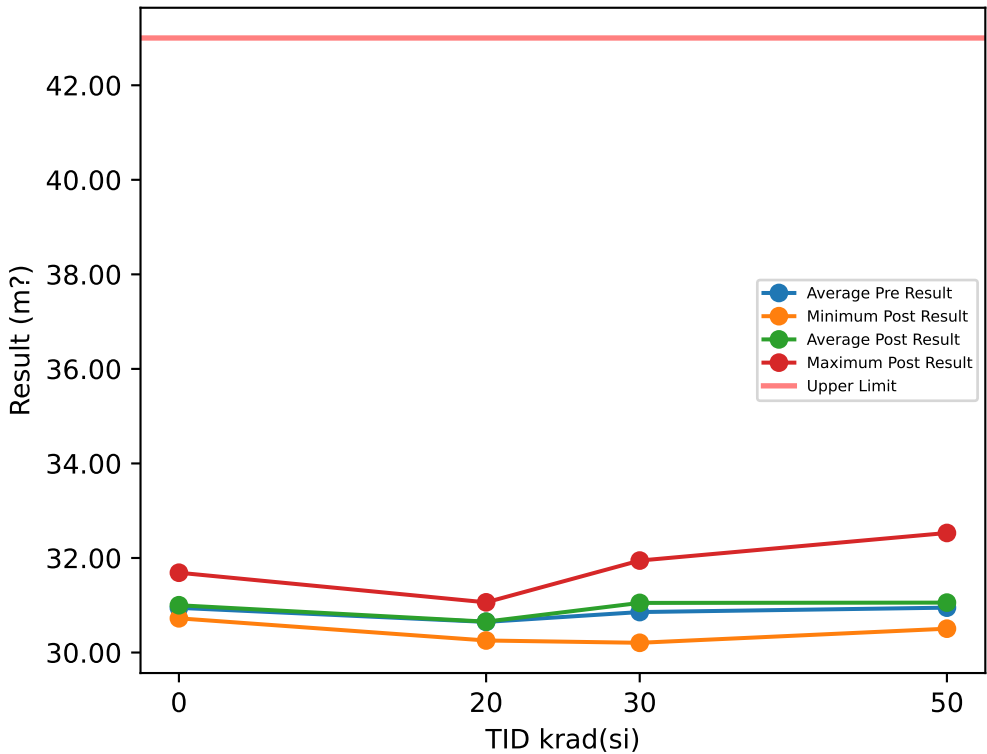
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.9456	1.8276	-0.118
516	0	CORRELATION	1.9862	1.967	-0.0192
721	0	CORRELATION	1.9772	1.9758	-0.0014
723	0	CORRELATION	1.9562	1.9552	-0.001
729	0	CORRELATION	1.9348	1.9346	-0.0002
990	20	Unbiased	2.0201	1.9668	-0.0533
991	20	Unbiased	2.0289	1.9863	-0.0426
992	20	Unbiased	2.1138	2.0523	-0.0615
993	20	Unbiased	1.9041	1.8614	-0.0427
994	20	Unbiased	1.9348	1.8913	-0.0435
995	20	Biased	2.0289	2.0412	0.0123
996	20	Biased	1.944	1.9459	0.0019
997	20	Biased	2.0412	2.0821	0.0409
998	20	Biased	2.2634	2.2645	0.0011
999	20	Biased	1.9435	1.9455	0.002
1020	30	Unbiased	1.9867	1.9849	-0.0018
1021	30	Unbiased	1.9037	1.9028	-0.0009
1022	30	Unbiased	1.9755	1.9658	-0.0097
1023	30	Unbiased	1.9563	1.9771	0.0208
1024	30	Unbiased	1.9988	1.997	-0.0018
1025	30	Biased	2.0182	1.9553	-0.0629
1026	30	Biased	2.0207	1.9635	-0.0572
1027	30	Biased	1.9036	1.8614	-0.0422
1028	30	Biased	1.9862	1.9333	-0.0529
1029	30	Biased	1.9543	1.9037	-0.0506
1030	50	Unbiased	1.9546	1.9547	0.0001
1031	50	Unbiased	1.8383	1.8405	0.0022
1032	50	Unbiased	2.0306	2.0201	-0.0105
1033	50	Unbiased	1.8397	1.8383	-0.0014
1034	50	Unbiased	1.9332	1.9148	-0.0184
1035	50	Biased-84Hr-Anneal	1.9962	1.9242	-0.072
1036	50	Biased-84Hr-Anneal	2.0709	1.9863	-0.0846
1037	50	Biased-84Hr-Anneal	1.9958	1.9246	-0.0712
1038	50	Biased-84Hr-Anneal	1.8908	1.902	0.0112
1039	50	Biased-84Hr-Anneal	1.9864	1.7971	-0.1893

Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9348	1.96	1.9862	0.021442	1.8276	1.932	1.9758	0.06039	-0.118	-0.02796	-0.0002	0.050958
20	1.9041	2.0223	2.2634	0.10589	1.8614	2.0037	2.2645	0.11509	-0.0615	-0.01854	0.0409	0.034236
30	1.9036	1.9704	2.0207	0.041542	1.8614	1.9445	1.997	0.043227	-0.0629	-0.02592	0.0208	0.030154
50	1.8383	1.9537	2.0709	0.078165	1.7971	1.9103	2.0201	0.06925	-0.1893	-0.04339	0.0112	0.06236

Device Test: 20.105 LEVEL|HIGH|SIDE/SW/12/12///@R_HIGH|SIDE_12V_25C_PLST

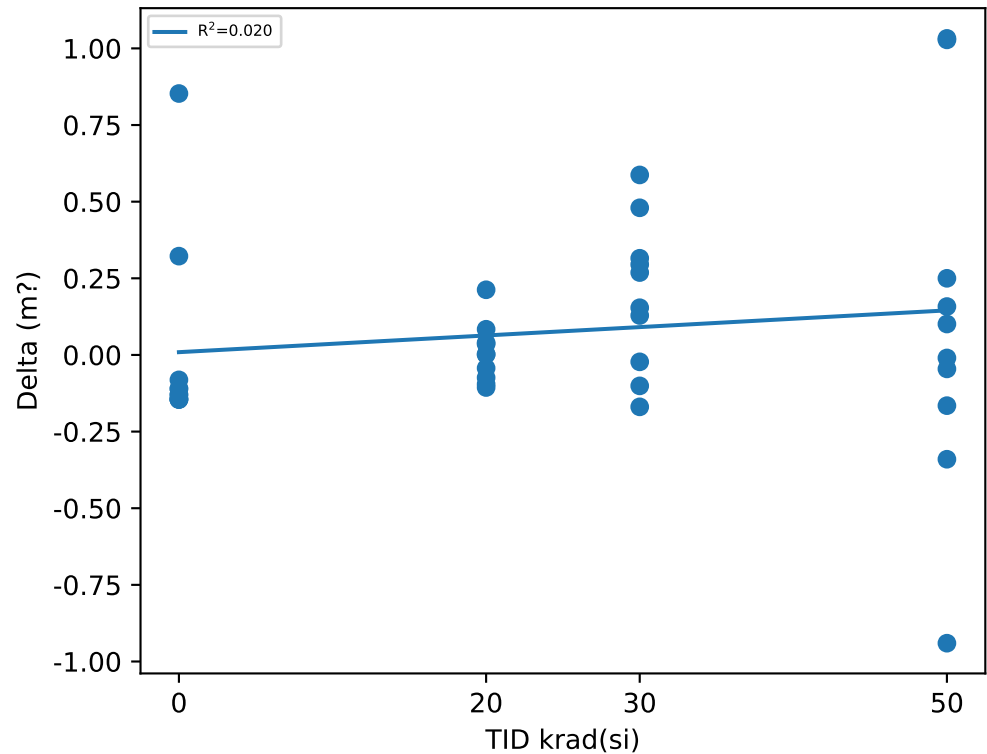
TID vs Result Stats



Test Results (Upper Limit = 43.0 (m?))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	30.835	31.688	0.8528
516	0	CORRELATION	30.832	31.154	0.3223
721	0	CORRELATION	30.977	30.896	-0.0813
723	0	CORRELATION	30.869	30.759	-0.11
729	0	CORRELATION	31.212	31.082	-0.1298
990	20	Unbiased	30.39	30.347	-0.0431
991	20	Unbiased	30.387	30.28	-0.1062
992	20	Unbiased	30.849	31.062	0.2126
993	20	Unbiased	30.967	31.003	0.0356
994	20	Unbiased	30.692	30.597	-0.0956
995	20	Biased	30.957	30.959	0.0015
996	20	Biased	30.245	30.285	0.0398
997	20	Biased	30.823	30.907	0.0838
998	20	Biased	30.329	30.255	-0.0741
999	20	Biased	30.836	30.839	0.0023
1020	30	Unbiased	30.307	30.206	-0.1009
1021	30	Unbiased	30.835	31.315	0.48
1022	30	Unbiased	30.791	30.945	0.154
1023	30	Unbiased	30.874	31.003	0.1287
1024	30	Unbiased	30.683	30.513	-0.1693
1025	30	Biased	30.647	30.942	0.2951
1026	30	Biased	31.358	31.945	0.5872
1027	30	Biased	31.096	31.411	0.3154
1028	30	Biased	30.88	30.857	-0.0225
1029	30	Biased	31.091	31.36	0.2688
1030	50	Unbiased	30.981	31.139	0.1579
1031	50	Unbiased	30.643	30.633	-0.0098
1032	50	Unbiased	30.646	30.6	-0.0455
1033	50	Unbiased	30.767	30.602	-0.1654
1034	50	Unbiased	30.845	30.505	-0.3402
1035	50	Biased-84Hr-Anneal	30.825	31.075	0.25
1036	50	Biased-84Hr-Anneal	30.935	31.036	0.1009
1037	50	Biased-84Hr-Anneal	31.502	32.529	1.0278
1038	50	Biased-84Hr-Anneal	31.529	30.589	-0.9403
1039	50	Biased-84Hr-Anneal	30.82	31.853	1.0326

TID vs Post - Pre Exposure Delta

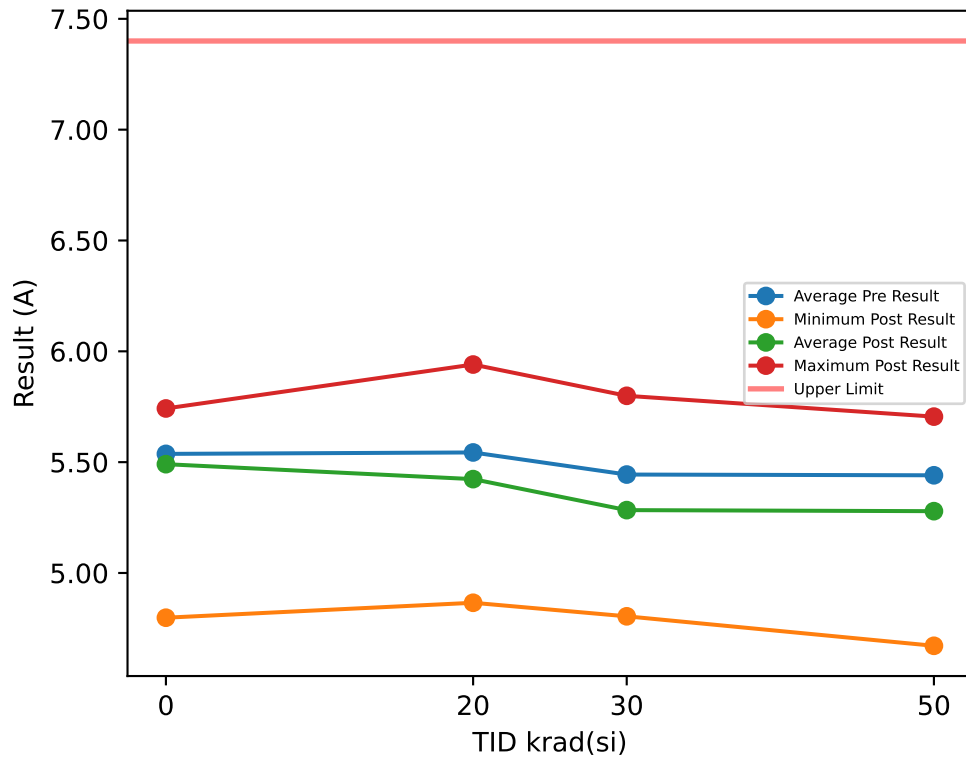


Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	30.832	30.945	31.212	0.16029	30.759	31.116	31.688	0.35559	-0.1298	0.1708	0.8528	0.42451
20	30.245	30.648	30.967	0.27989	30.255	30.653	31.062	0.33524	-0.1062	0.00566	0.2126	0.095758
30	30.307	30.856	31.358	0.28793	30.206	31.05	31.945	0.49003	-0.1693	0.19365	0.5872	0.24464
50	30.643	30.949	31.529	0.31708	30.505	31.056	32.529	0.66069	-0.9403	0.1068	1.0326	0.59026

Device Test: 20.106 THRESHOLD|RISE/SW/12////@HIGHSIDE_CURR_LIM_6A_PLST

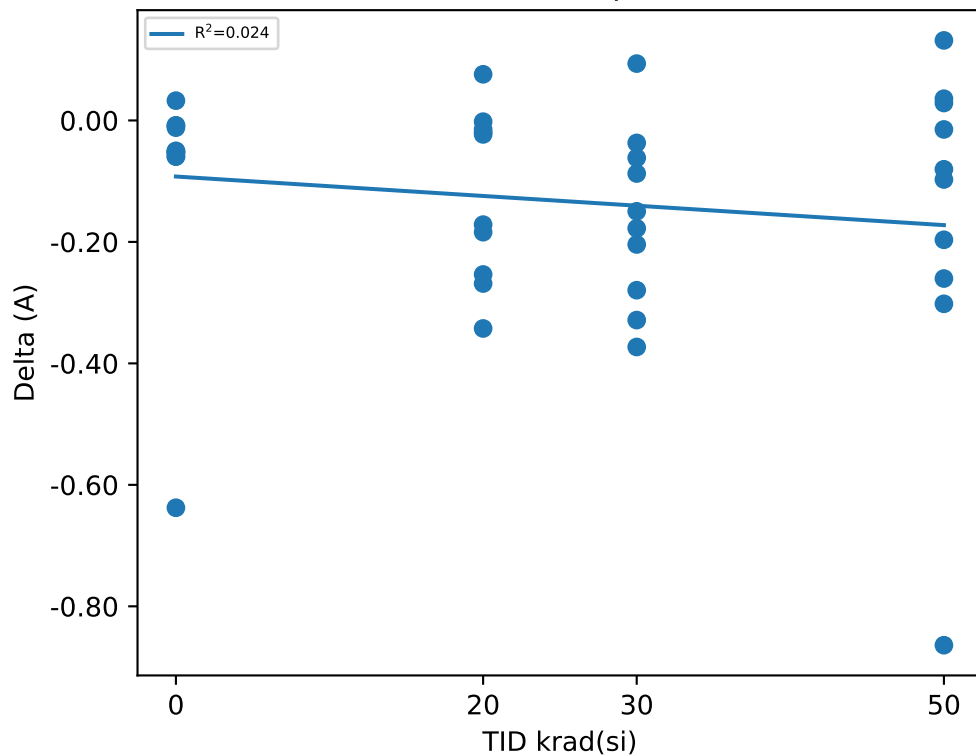
TID vs Result Stats



Test Results (Upper Limit = 7.4 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.4359	4.7982	-0.6377
516	0	CORRELATION	5.6237	5.6118	-0.0119
721	0	CORRELATION	5.4031	5.4357	0.0326
723	0	CORRELATION	5.7925	5.7422	-0.0503
729	0	CORRELATION	5.4314	5.4232	-0.0082
990	20	Unbiased	5.4796	5.2956	-0.184
991	20	Unbiased	5.4746	5.1321	-0.3425
992	20	Unbiased	5.3617	5.1081	-0.2536
993	20	Unbiased	5.6677	5.3992	-0.2685
994	20	Unbiased	5.0371	4.8656	-0.1715
995	20	Biased	5.9634	5.9404	-0.023
996	20	Biased	5.4279	5.5039	0.076
997	20	Biased	5.894	5.8794	-0.0146
998	20	Biased	5.4106	5.4086	-0.002
999	20	Biased	5.721	5.7015	-0.0195
1020	30	Unbiased	5.2204	5.1588	-0.0616
1021	30	Unbiased	5.1623	5.2559	0.0936
1022	30	Unbiased	5.2858	5.1082	-0.1776
1023	30	Unbiased	5.6926	5.6556	-0.037
1024	30	Unbiased	5.4116	5.262	-0.1496
1025	30	Biased	5.1332	4.8045	-0.3287
1026	30	Biased	5.1347	4.9305	-0.2042
1027	30	Biased	5.9236	5.6441	-0.2795
1028	30	Biased	6.1723	5.7993	-0.373
1029	30	Biased	5.3043	5.2169	-0.0874
1030	50	Unbiased	5.5927	5.6285	0.0358
1031	50	Unbiased	5.5074	5.4926	-0.0148
1032	50	Unbiased	5.5798	5.4994	-0.0804
1033	50	Unbiased	5.4771	5.5058	0.0287
1034	50	Unbiased	5.5369	5.4397	-0.0972
1035	50	Biased-84Hr-Anneal	5.1049	4.8446	-0.2603
1036	50	Biased-84Hr-Anneal	5.2485	4.9466	-0.3019
1037	50	Biased-84Hr-Anneal	5.9019	5.7054	-0.1965
1038	50	Biased-84Hr-Anneal	4.9226	5.0544	0.1318
1039	50	Biased-84Hr-Anneal	5.5355	4.6715	-0.864

TID vs Post - Pre Exposure Delta

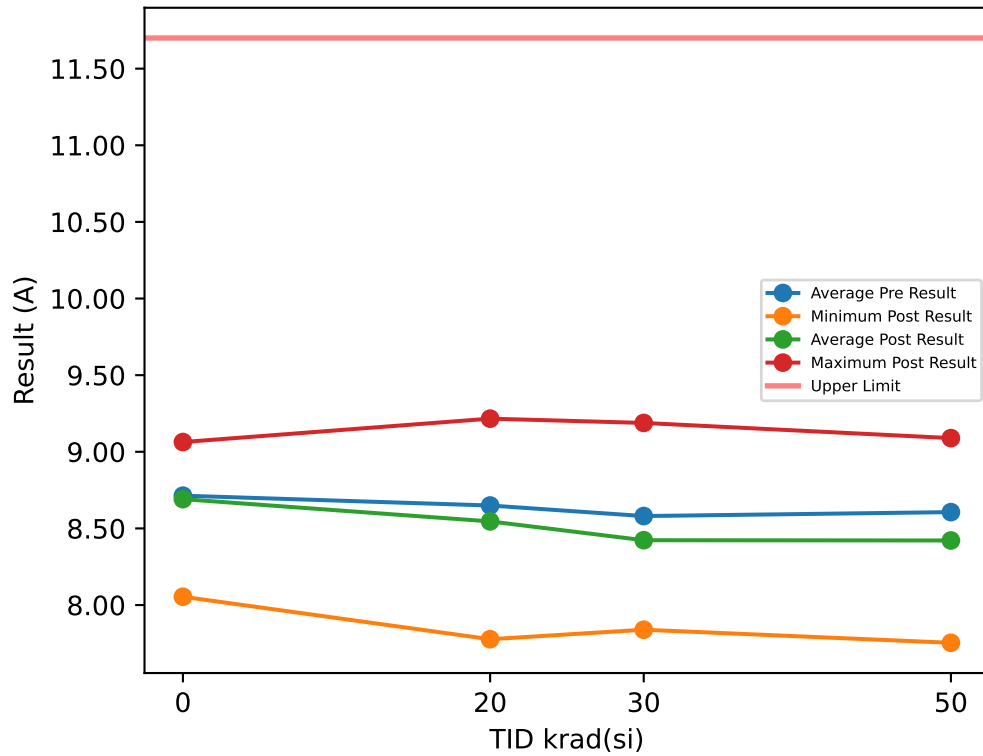


Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.4031	5.5373	5.7925	0.16741	4.7982	5.4022	5.7422	0.3626	-0.6377	-0.1351	0.0326	0.28249
20	5.0371	5.5438	5.9634	0.27395	4.8656	5.4234	5.9404	0.34506	-0.3425	-0.12032	0.076	0.14107
30	5.1332	5.4441	6.1723	0.36354	4.8045	5.2836	5.7993	0.32327	-0.373	-0.1605	0.0936	0.14332
50	4.9226	5.4407	5.9019	0.27835	4.6715	5.2789	5.7054	0.36425	-0.864	-0.16188	0.1318	0.28236

Device Test: 20.107 THRESHOLD|RISE/SW/12////@HIGH SIDE_CURR_LIM_9A_PLST

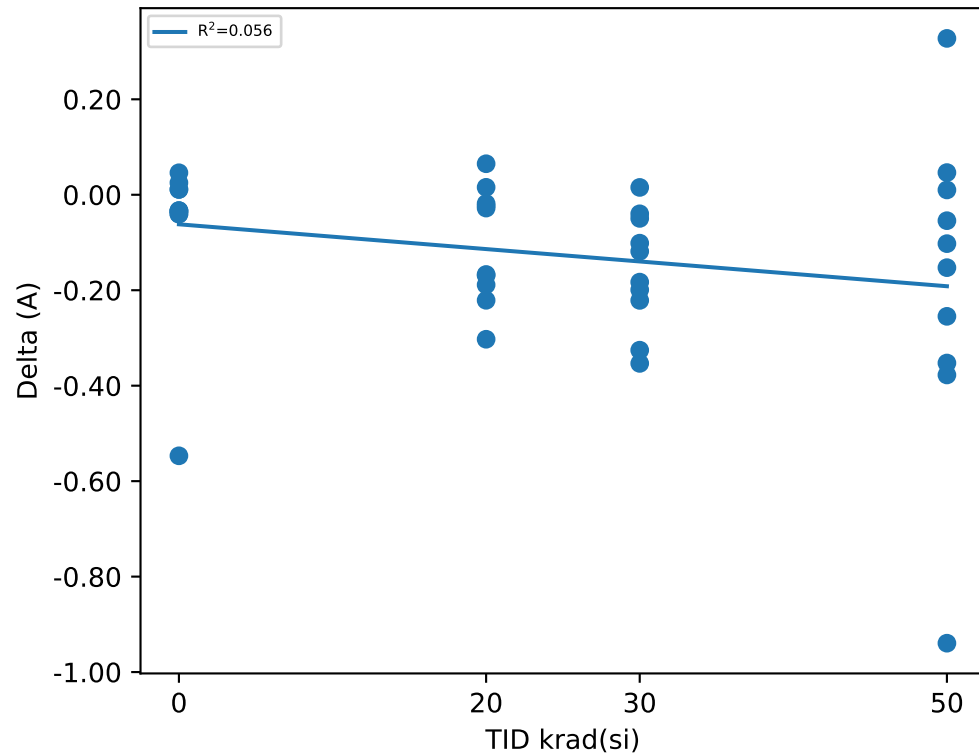
TID vs Result Stats



Test Results (Upper Limit = 11.7 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	8.6011	8.0542	-0.5469
516	0	CORRELATION	8.7759	8.8011	0.0252
721	0	CORRELATION	8.6247	8.6708	0.0461
723	0	CORRELATION	9.0982	9.0578	-0.0404
729	0	CORRELATION	8.469	8.4802	0.0112
990	20	Unbiased	8.6194	8.4524	-0.167
991	20	Unbiased	8.6187	8.316	-0.3027
992	20	Unbiased	8.274	8.1051	-0.1689
993	20	Unbiased	8.8808	8.6921	-0.1887
994	20	Unbiased	7.9982	7.7771	-0.2211
995	20	Biased	9.1513	9.2163	0.065
996	20	Biased	8.5932	8.5653	-0.0279
997	20	Biased	9.1897	9.1666	-0.0231
998	20	Biased	8.3926	8.4082	0.0156
999	20	Biased	8.7775	8.7591	-0.0184
1020	30	Unbiased	8.2148	8.1749	-0.0399
1021	30	Unbiased	8.27	8.2854	0.0154
1022	30	Unbiased	8.2989	8.1159	-0.183
1023	30	Unbiased	8.9206	8.8711	-0.0495
1024	30	Unbiased	8.5182	8.3997	-0.1185
1025	30	Biased	8.1924	7.8391	-0.3533
1026	30	Biased	8.1662	8.0648	-0.1014
1027	30	Biased	9.2691	9.0478	-0.2213
1028	30	Biased	9.5139	9.1883	-0.3256
1029	30	Biased	8.4425	8.2434	-0.1991
1030	50	Unbiased	8.8137	8.8238	0.0101
1031	50	Unbiased	8.6169	8.5145	-0.1024
1032	50	Unbiased	8.9247	8.772	-0.1527
1033	50	Unbiased	8.5701	8.6166	0.0465
1034	50	Unbiased	8.5331	8.4788	-0.0543
1035	50	Biased-84Hr-Anneal	8.2889	7.9364	-0.3525
1036	50	Biased-84Hr-Anneal	8.3256	7.9481	-0.3775
1037	50	Biased-84Hr-Anneal	9.344	9.0893	-0.2547
1038	50	Biased-84Hr-Anneal	7.9531	8.2807	0.3276
1039	50	Biased-84Hr-Anneal	8.6932	7.7537	-0.9395

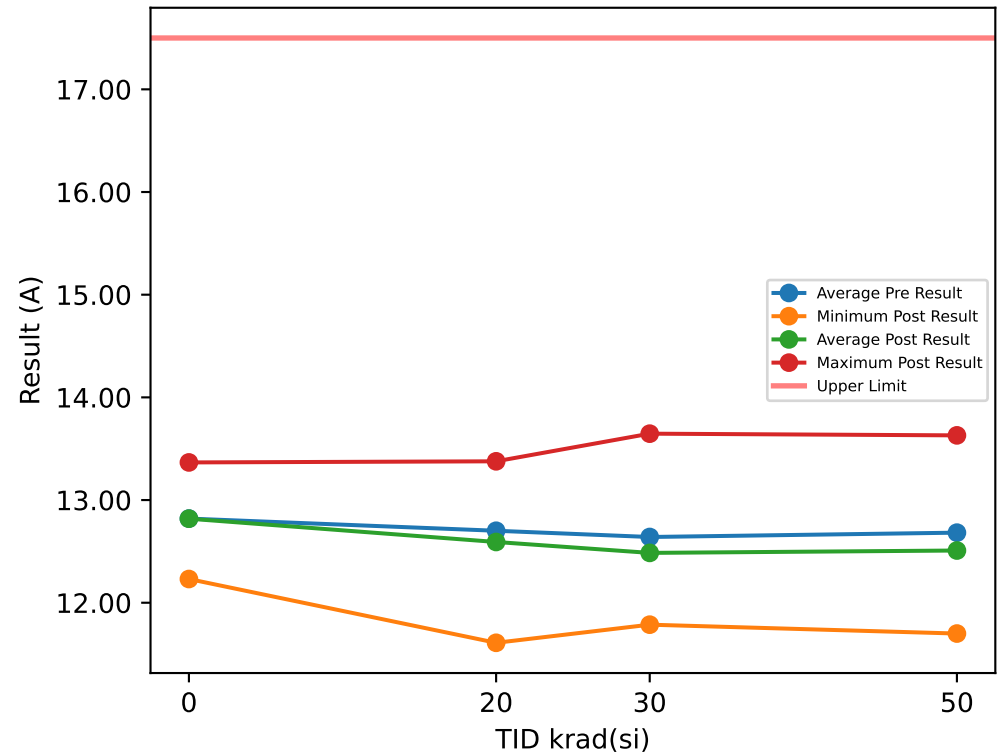
TID vs Post - Pre Exposure Delta



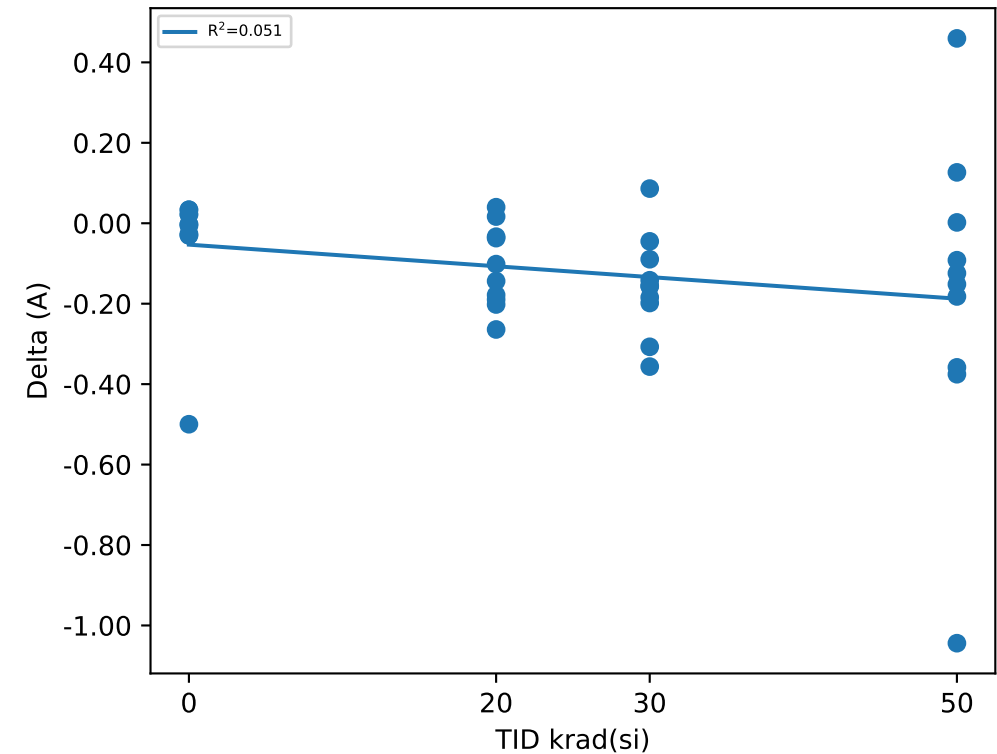
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.469	8.7138	9.0982	0.24093	8.0542	8.6128	9.0578	0.37632	-0.5469	-0.10096	0.0461	0.25132
20	7.9982	8.6495	9.1897	0.37264	7.7771	8.5458	9.2163	0.4432	-0.3027	-0.10372	0.065	0.12068
30	8.1662	8.5807	9.5139	0.48485	7.8391	8.423	9.1883	0.45384	-0.3533	-0.15762	0.0154	0.12161
50	7.9531	8.6063	9.344	0.38139	7.7537	8.4214	9.0893	0.43536	-0.9395	-0.18494	0.3276	0.33642

TID vs Result Stats



TID vs Post - Pre Exposure Delta



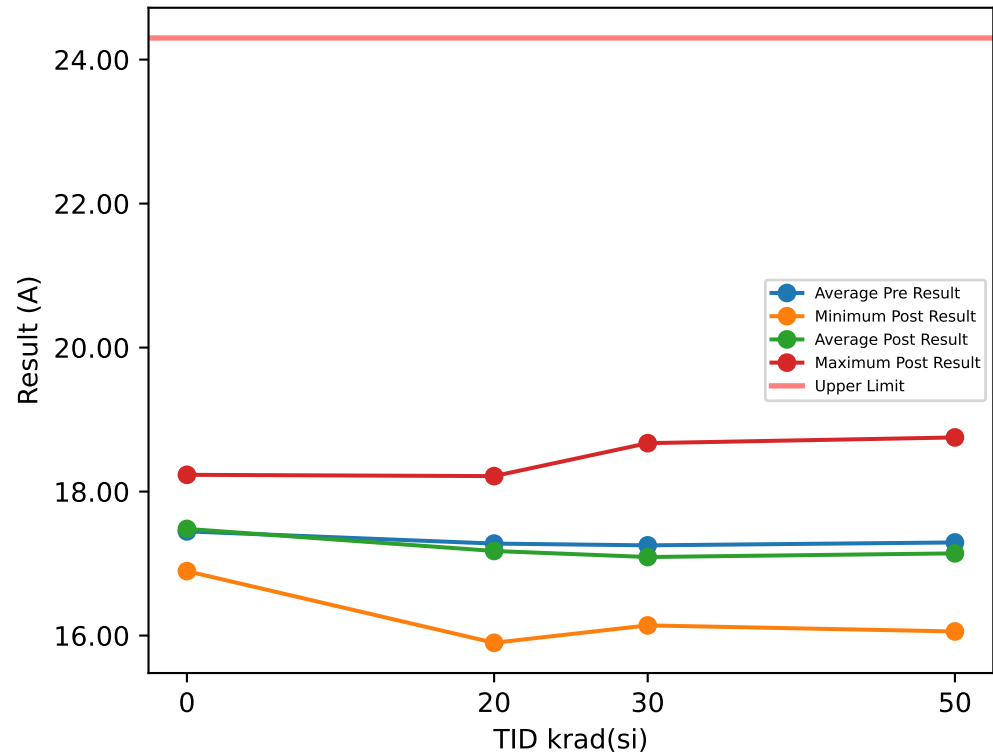
Test Results (Upper Limit = 17.5 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	12.731	12.231	-0.4997
516	0	CORRELATION	12.831	12.825	-0.0062
721	0	CORRELATION	12.739	12.713	-0.0261
723	0	CORRELATION	13.333	13.366	0.0335
729	0	CORRELATION	12.464	12.486	0.0218
990	20	Unbiased	12.739	12.596	-0.1438
991	20	Unbiased	12.665	12.401	-0.2641
992	20	Unbiased	12.116	11.927	-0.1896
993	20	Unbiased	13.17	12.992	-0.1784
994	20	Unbiased	11.812	11.61	-0.202
995	20	Biased	13.438	13.336	-0.1016
996	20	Biased	12.666	12.629	-0.037
997	20	Biased	13.337	13.377	0.0399
998	20	Biased	12.235	12.252	0.0166
999	20	Biased	12.831	12.798	-0.0334
1020	30	Unbiased	12.072	11.982	-0.0895
1021	30	Unbiased	12.115	12.201	0.0862
1022	30	Unbiased	12.146	12.101	-0.045
1023	30	Unbiased	13.22	13.079	-0.1417
1024	30	Unbiased	12.521	12.364	-0.1569
1025	30	Biased	12.143	11.786	-0.3564
1026	30	Biased	12.241	12.043	-0.1983
1027	30	Biased	13.527	13.342	-0.1843
1028	30	Biased	13.954	13.646	-0.3072
1029	30	Biased	12.465	12.309	-0.1553
1030	50	Unbiased	12.872	12.998	0.1265
1031	50	Unbiased	12.624	12.533	-0.0919
1032	50	Unbiased	13.172	12.99	-0.182
1033	50	Unbiased	12.707	12.709	0.0021
1034	50	Unbiased	12.514	12.362	-0.1516
1035	50	Biased-84Hr-Anneal	12.362	11.986	-0.3754
1036	50	Biased-84Hr-Anneal	12.22	11.862	-0.3583
1037	50	Biased-84Hr-Anneal	13.754	13.63	-0.1242
1038	50	Biased-84Hr-Anneal	11.855	12.315	0.4596
1039	50	Biased-84Hr-Anneal	12.744	11.7	-1.0441

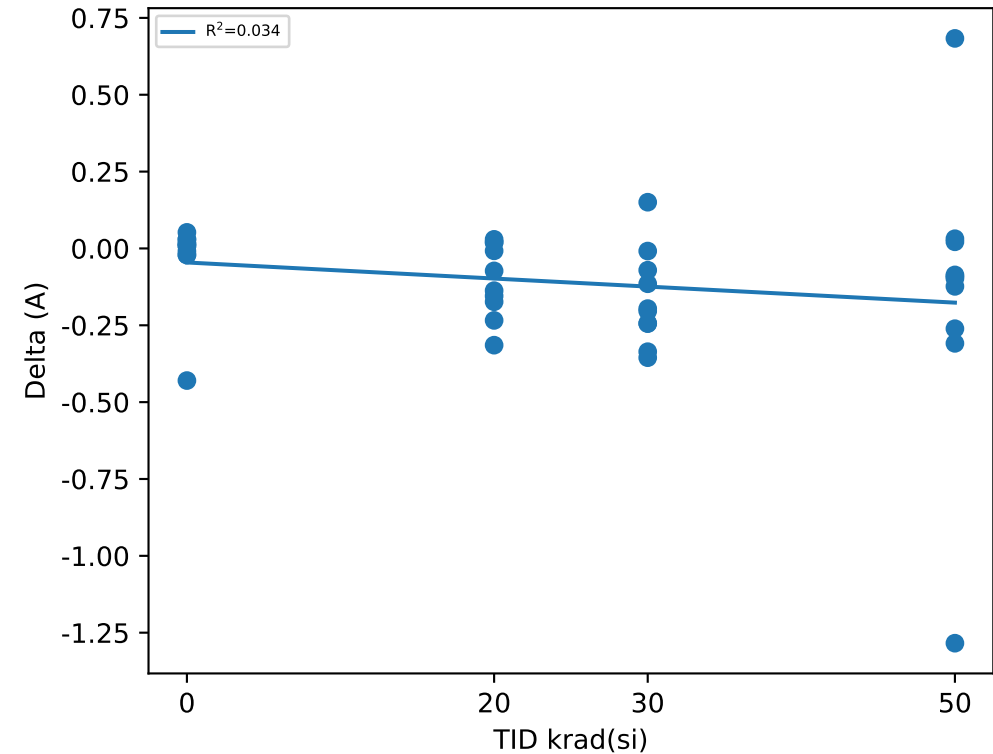
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.464	12.82	13.333	0.31789	12.231	12.724	13.366	0.42504	-0.4997	-0.09534	0.0335	0.22725
20	11.812	12.701	13.438	0.53106	11.61	12.592	13.377	0.5709	-0.2641	-0.10934	0.0399	0.10227
30	12.072	12.64	13.954	0.6785	11.786	12.485	13.646	0.63656	-0.3564	-0.15484	0.0862	0.12526
50	11.855	12.682	13.754	0.52288	11.7	12.509	13.63	0.5938	-1.0441	-0.17393	0.4596	0.38932

TID vs Result Stats



TID vs Post - Pre Exposure Delta



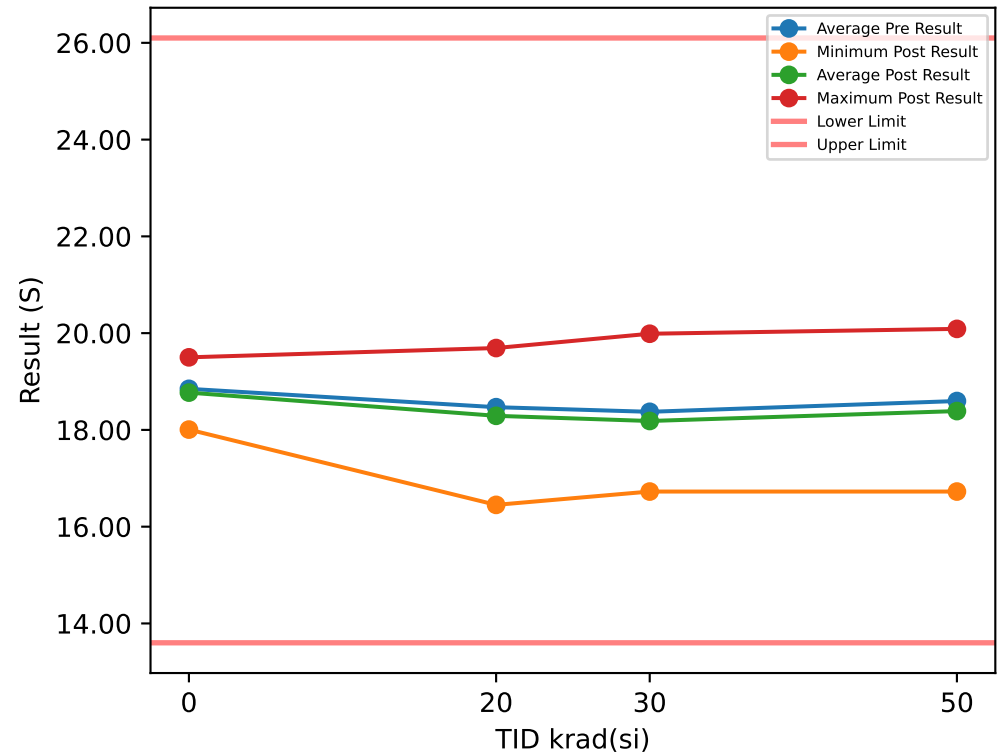
Test Results (Upper Limit = 24.3 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	17.325	16.895	-0.4298
516	0	CORRELATION	17.408	17.461	0.0523
721	0	CORRELATION	17.375	17.365	-0.0092
723	0	CORRELATION	18.203	18.211	0.0081
729	0	CORRELATION	16.924	16.903	-0.0211
990	20	Unbiased	17.341	17.204	-0.1373
991	20	Unbiased	17.271	16.956	-0.3147
992	20	Unbiased	16.415	16.261	-0.1546
993	20	Unbiased	17.981	17.807	-0.1734
994	20	Unbiased	16.134	15.899	-0.2341
995	20	Biased	18.288	18.215	-0.073
996	20	Biased	17.138	17.168	0.0296
997	20	Biased	18.168	18.187	0.0189
998	20	Biased	16.63	16.651	0.0211
999	20	Biased	17.409	17.401	-0.0078
1020	30	Unbiased	16.541	16.298	-0.2433
1021	30	Unbiased	16.567	16.718	0.1504
1022	30	Unbiased	16.539	16.469	-0.0708
1023	30	Unbiased	17.97	17.961	-0.0085
1024	30	Unbiased	17.067	16.952	-0.1149
1025	30	Biased	16.477	16.141	-0.3359
1026	30	Biased	16.824	16.621	-0.2037
1027	30	Biased	18.503	18.258	-0.2446
1028	30	Biased	19.028	18.672	-0.3554
1029	30	Biased	17.014	16.818	-0.1957
1030	50	Unbiased	17.611	17.642	0.0316
1031	50	Unbiased	17.097	17.011	-0.0861
1032	50	Unbiased	18.066	17.942	-0.1234
1033	50	Unbiased	17.396	17.418	0.0216
1034	50	Unbiased	16.966	16.868	-0.0974
1035	50	Biased-84Hr-Anneal	16.817	16.556	-0.2611
1036	50	Biased-84Hr-Anneal	16.591	16.282	-0.3088
1037	50	Biased-84Hr-Anneal	18.843	18.752	-0.091
1038	50	Biased-84Hr-Anneal	16.206	16.889	0.6833
1039	50	Biased-84Hr-Anneal	17.341	16.057	-1.2842

Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	16.924	17.447	18.203	0.46539	16.895	17.367	18.211	0.53832	-0.4298	-0.07994	0.0523	0.19755
20	16.134	17.277	18.288	0.73184	15.899	17.175	18.215	0.77045	-0.3147	-0.10253	0.0296	0.11954
30	16.477	17.253	19.028	0.91829	16.141	17.091	18.672	0.88149	-0.3554	-0.16224	0.1504	0.15479
50	16.206	17.293	18.843	0.75712	16.057	17.142	18.752	0.81469	-1.2842	-0.15155	0.6833	0.4821

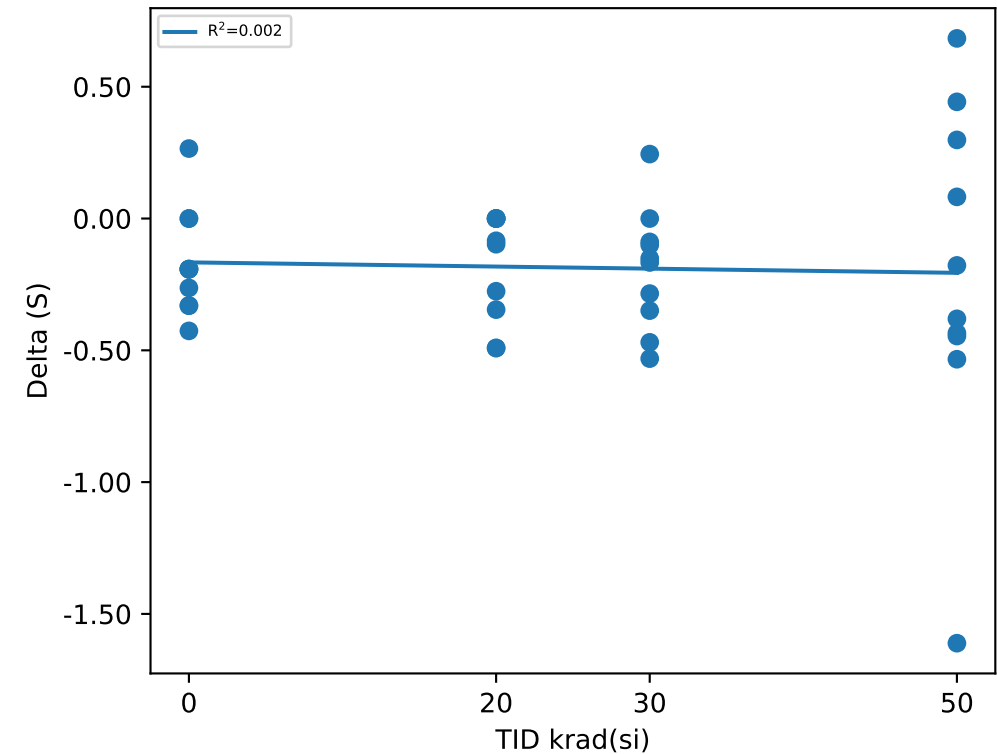
TID vs Result Stats



Test Results (Lower Limit = 13.6, Upper Limit = 26.1 (S))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	18.68	18.253	-0.4263
516	0	CORRELATION	18.68	18.945	0.2655
721	0	CORRELATION	18.856	18.593	-0.2631
723	0	CORRELATION	19.692	19.5	-0.192
729	0	CORRELATION	18.337	18.007	-0.3304
990	20	Unbiased	18.422	18.337	-0.0844
991	20	Unbiased	18.337	17.846	-0.4912
992	20	Unbiased	17.533	17.533	0.0001
993	20	Unbiased	19.79	19.692	-0.0975
994	20	Unbiased	16.796	16.451	-0.3456
995	20	Biased	19.219	19.219	0.0001
996	20	Biased	18.007	18.007	0
997	20	Biased	18.945	18.945	0
998	20	Biased	18.337	17.846	-0.4912
999	20	Biased	19.312	19.036	-0.2758
1020	30	Unbiased	17.011	16.726	-0.2847
1021	30	Unbiased	17.926	18.171	0.2445
1022	30	Unbiased	17.456	17.305	-0.1512
1023	30	Unbiased	18.856	18.768	-0.0886
1024	30	Unbiased	18.856	18.507	-0.3493
1025	30	Biased	17.688	17.157	-0.5314
1026	30	Biased	18.337	18.171	-0.1667
1027	30	Biased	19.596	19.596	0
1028	30	Biased	20.088	19.988	-0.1004
1029	30	Biased	17.926	17.456	-0.4697
1030	50	Unbiased	18.593	19.036	0.4427
1031	50	Unbiased	18.088	18.171	0.0822
1032	50	Unbiased	19.692	19.312	-0.3805
1033	50	Unbiased	19.127	18.593	-0.5338
1034	50	Unbiased	18.945	18.768	-0.1779
1035	50	Biased-84Hr-Anneal	18.856	18.422	-0.4344
1036	50	Biased-84Hr-Anneal	17.456	17.011	-0.4458
1037	50	Biased-84Hr-Anneal	19.79	20.088	0.2983
1038	50	Biased-84Hr-Anneal	17.083	17.767	0.6834
1039	50	Biased-84Hr-Anneal	18.337	16.726	-1.6111

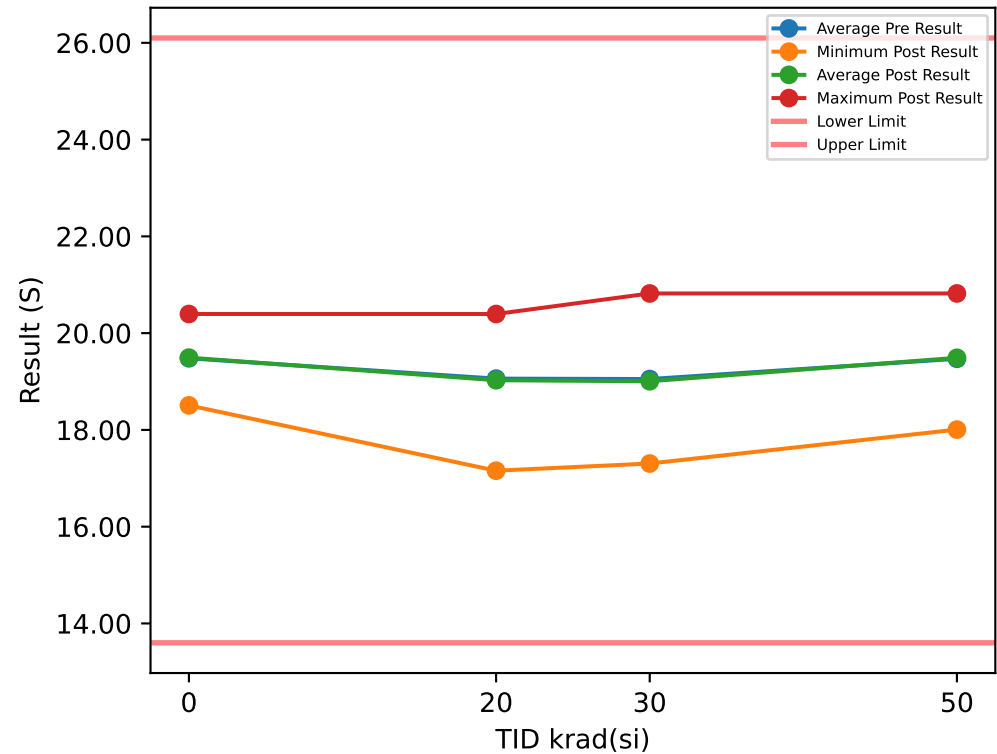
TID vs Post - Pre Exposure Delta



Test Statistics (S)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.337	18.849	19.692	0.5074	18.007	18.66	19.5	0.58811	-0.4263	-0.18926	0.2655	0.2685
20	16.796	18.47	19.79	0.89245	16.451	18.291	19.692	0.95729	-0.4912	-0.17855	0.0001	0.20437
30	17.011	18.374	20.088	0.97002	16.726	18.184	19.988	1.0632	-0.5314	-0.18975	0.2445	0.22958
50	17.083	18.597	19.79	0.88252	16.726	18.389	20.088	1.0243	-1.6111	-0.20769	0.6834	0.64738

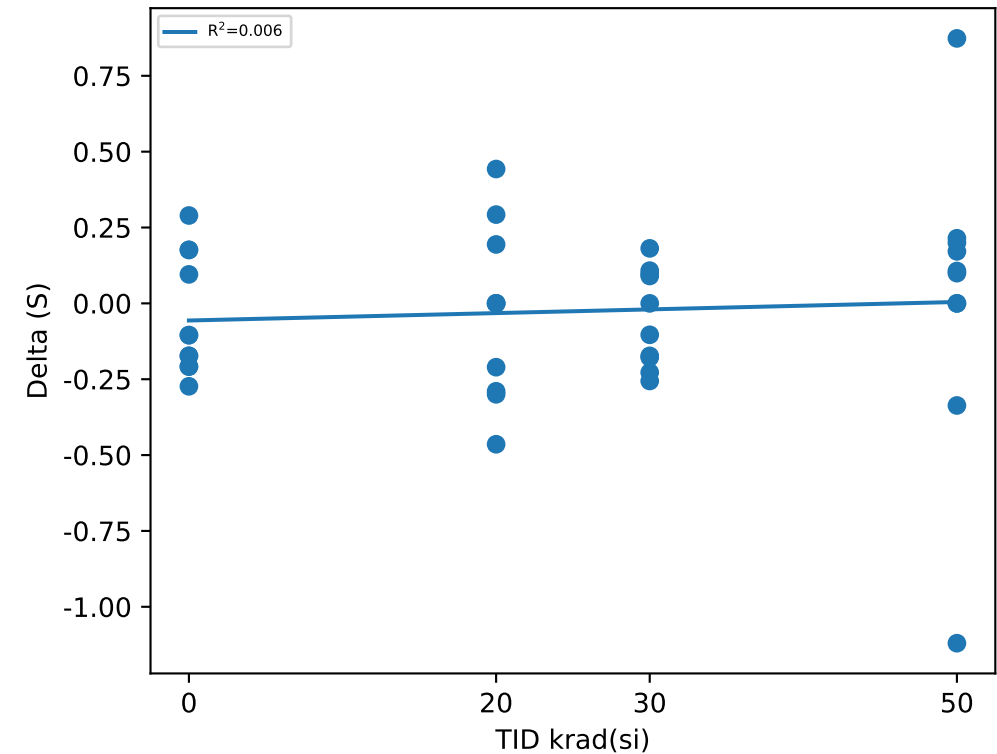
TID vs Result Stats



Test Results (Lower Limit = 13.6, Upper Limit = 26.1 (S))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	19.219	18.945	-0.2733
516	0	CORRELATION	19.5	19.79	0.2896
721	0	CORRELATION	19.5	19.596	0.0955
723	0	CORRELATION	20.5	20.395	-0.1047
729	0	CORRELATION	18.68	18.856	0.1762
990	20	Unbiased	18.593	19.036	0.4428
991	20	Unbiased	19.5	19.036	-0.4643
992	20	Unbiased	18.007	18.007	0.0001
993	20	Unbiased	20.606	20.395	-0.2103
994	20	Unbiased	17.456	17.157	-0.2997
995	20	Biased	19.79	19.5	-0.2897
996	20	Biased	18.422	18.422	0
997	20	Biased	19.596	19.79	0.1942
998	20	Biased	19.036	19.036	0
999	20	Biased	19.596	19.888	0.2926
1020	30	Unbiased	17.533	17.305	-0.2277
1021	30	Unbiased	18.945	19.036	0.0902
1022	30	Unbiased	18.593	18.337	-0.2558
1023	30	Unbiased	18.945	19.127	0.1813
1024	30	Unbiased	19.596	19.692	0.0966
1025	30	Biased	18.68	18.507	-0.173
1026	30	Biased	18.945	18.768	-0.1779
1027	30	Biased	20.395	20.292	-0.1036
1028	30	Biased	20.712	20.82	0.1079
1029	30	Biased	18.171	18.171	0
1030	50	Unbiased	19.312	19.312	0
1031	50	Unbiased	18.422	18.593	0.1714
1032	50	Unbiased	20.606	20.82	0.2146
1033	50	Unbiased	19.888	20.088	0.1999
1034	50	Unbiased	20.088	20.088	0
1035	50	Biased-84Hr-Anneal	19.888	19.988	0.0995
1036	50	Biased-84Hr-Anneal	18.507	18.171	-0.3365
1037	50	Biased-84Hr-Anneal	20.606	20.712	0.1067
1038	50	Biased-84Hr-Anneal	18.253	19.127	0.8733
1039	50	Biased-84Hr-Anneal	19.127	18.007	-1.12

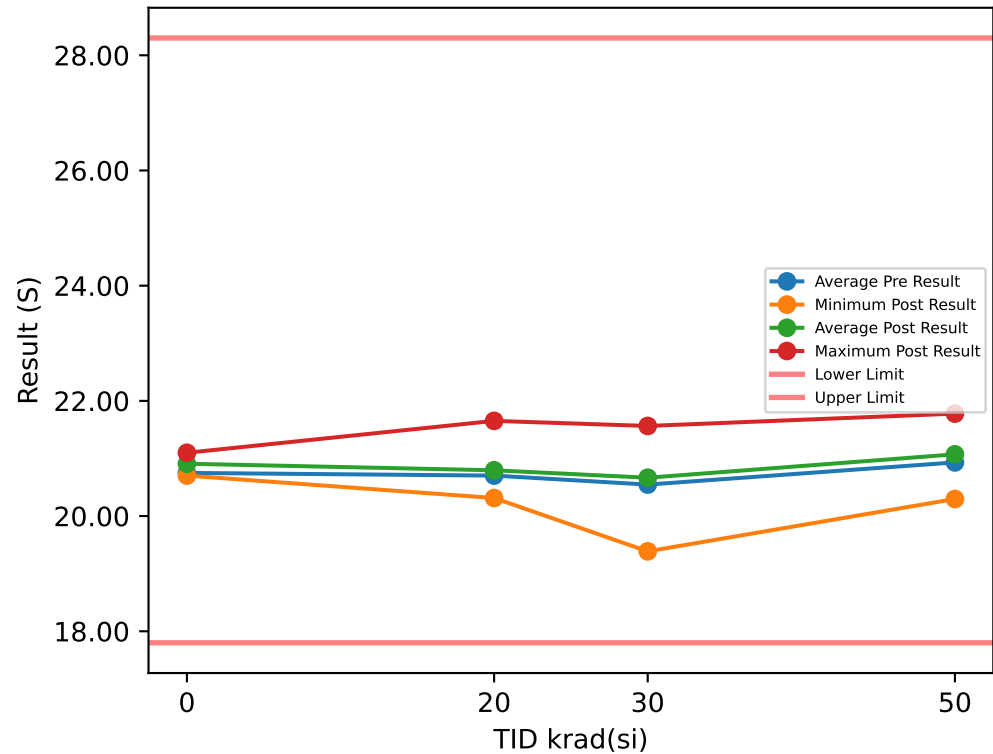
TID vs Post - Pre Exposure Delta



Test Statistics (S)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.68	19.48	20.5	0.66137	18.856	19.516	20.395	0.63548	-0.2733	0.03666	0.2896	0.22526
20	17.456	19.06	20.606	0.94257	17.157	19.027	20.395	0.96177	-0.4643	-0.03343	0.4428	0.28709
30	17.533	19.052	20.712	0.96176	17.305	19.005	20.82	1.0422	-0.2558	-0.0462	0.1813	0.15994
50	18.253	19.47	20.606	0.87941	18.007	19.49	20.82	1.0075	-1.12	0.02089	0.8733	0.5014

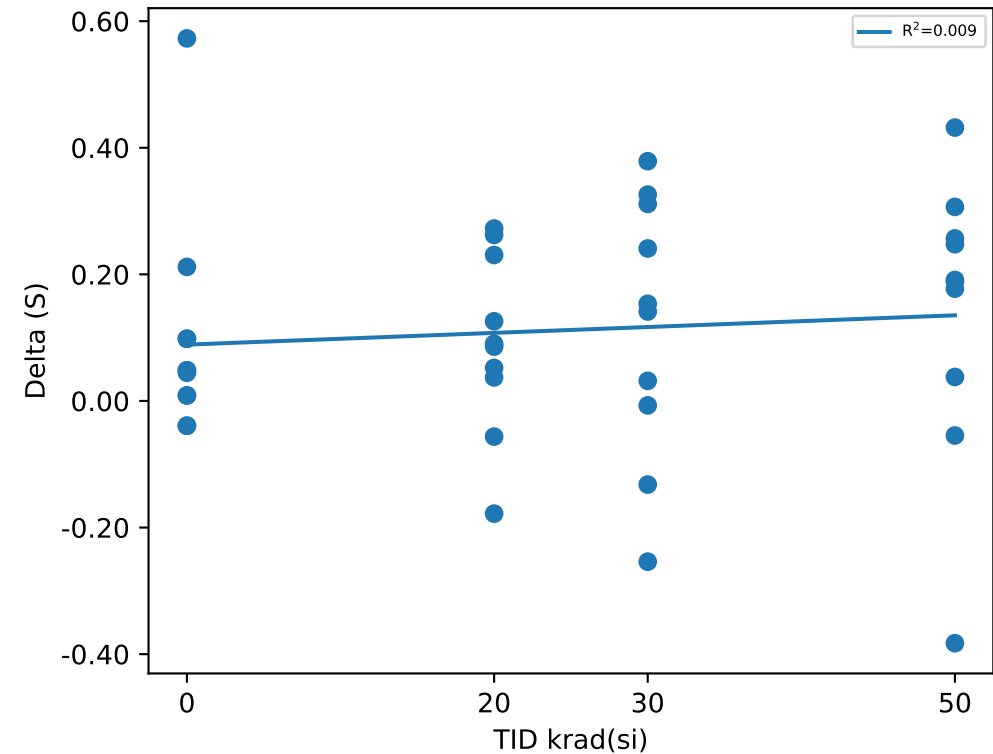
TID vs Result Stats



Test Results (Lower Limit = 17.8, Upper Limit = 28.3 (S))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	20.887	21.099	0.2118
516	0	CORRELATION	20.244	20.817	0.5728
721	0	CORRELATION	20.886	20.93	0.0446
723	0	CORRELATION	20.988	21.086	0.0983
729	0	CORRELATION	20.742	20.703	-0.0391
990	20	Unbiased	20.461	20.499	0.0372
991	20	Unbiased	20.503	20.766	0.2623
992	20	Unbiased	20.886	20.708	-0.178
993	20	Unbiased	21.709	21.653	-0.0563
994	20	Unbiased	20.041	20.314	0.2724
995	20	Biased	20.71	20.796	0.0859
996	20	Biased	20.205	20.331	0.1259
997	20	Biased	20.495	20.726	0.2306
998	20	Biased	20.949	21.001	0.0522
999	20	Biased	21.068	21.158	0.0903
1020	30	Unbiased	19.642	19.388	-0.2539
1021	30	Unbiased	20.446	20.772	0.326
1022	30	Unbiased	19.968	20.109	0.1413
1023	30	Unbiased	20.668	20.536	-0.1321
1024	30	Unbiased	20.994	21.234	0.2409
1025	30	Biased	20.078	20.456	0.3788
1026	30	Biased	21.103	21.415	0.3113
1027	30	Biased	21.133	21.287	0.1535
1028	30	Biased	21.572	21.565	-0.007
1029	30	Biased	19.866	19.898	0.0318
1030	50	Unbiased	20.753	20.941	0.1888
1031	50	Unbiased	20.563	20.82	0.2568
1032	50	Unbiased	21.178	21.124	-0.0546
1033	50	Unbiased	21.097	21.403	0.3066
1034	50	Unbiased	21.496	21.743	0.2476
1035	50	Biased-84Hr-Anneal	21.579	21.617	0.0379
1036	50	Biased-84Hr-Anneal	20.119	20.297	0.1774
1037	50	Biased-84Hr-Anneal	21.587	21.779	0.1912
1038	50	Biased-84Hr-Anneal	20.139	20.57	0.4319
1039	50	Biased-84Hr-Anneal	20.808	20.425	-0.3827

TID vs Post - Pre Exposure Delta

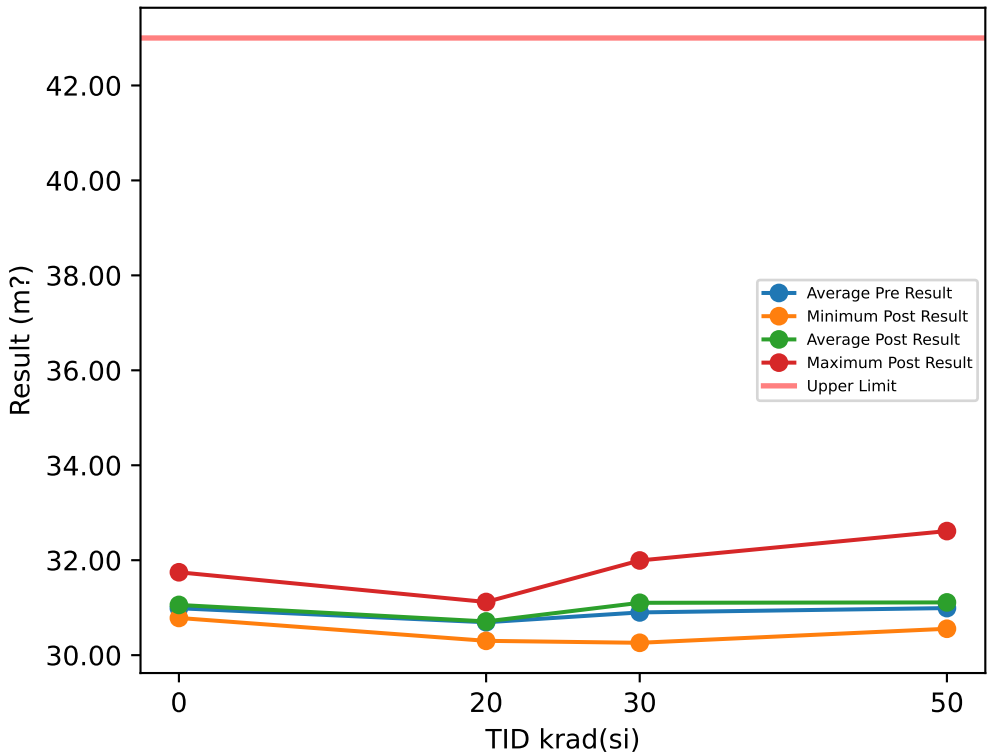


Test Statistics (S)

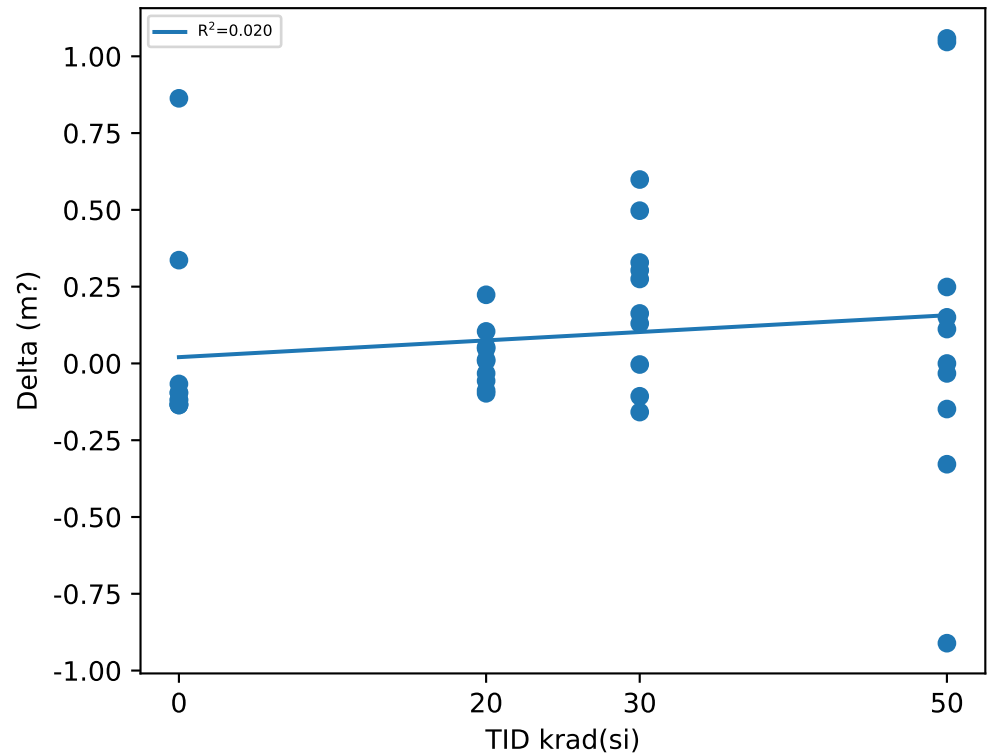
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.244	20.749	20.988	0.29588	20.703	20.927	21.099	0.17126	-0.0391	0.17768	0.5728	0.2389
20	20.041	20.703	21.709	0.47918	20.314	20.795	21.653	0.40254	-0.178	0.09225	0.2724	0.14198
30	19.642	20.547	21.572	0.64696	19.388	20.666	21.565	0.72137	-0.2539	0.11906	0.3788	0.20802
50	20.119	20.932	21.587	0.55056	20.297	21.072	21.779	0.54888	-0.3827	0.14009	0.4319	0.22757

Device Test: 20.156 LEVEL|HIGH|SIDE/SW/14/12///@R_HIGH|SIDE_14V_25C_PLST

TID vs Result Stats



TID vs Post - Pre Exposure Delta



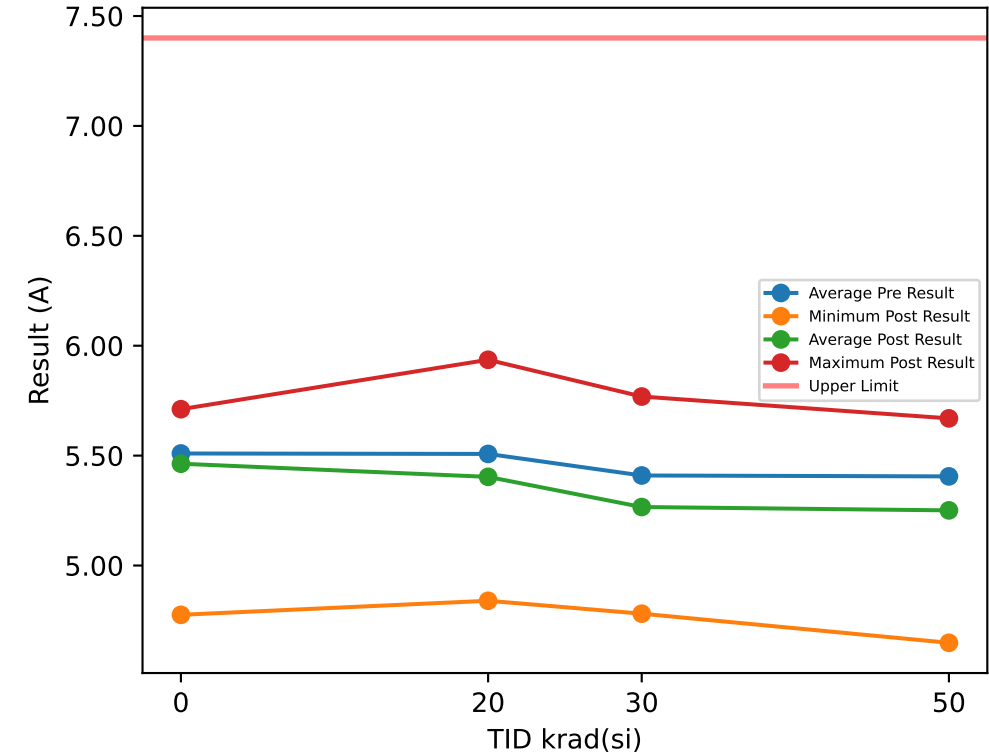
Test Results (Upper Limit = 43.0 (m?))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	30.883	31.746	0.8632
516	0	CORRELATION	30.871	31.207	0.3363
721	0	CORRELATION	31.011	30.944	-0.0667
723	0	CORRELATION	30.917	30.821	-0.0955
729	0	CORRELATION	31.26	31.141	-0.1187
990	20	Unbiased	30.445	30.412	-0.0323
991	20	Unbiased	30.435	30.338	-0.0973
992	20	Unbiased	30.896	31.12	0.2235
993	20	Unbiased	31.024	31.073	0.0483
994	20	Unbiased	30.743	30.654	-0.0881
995	20	Biased	31	31.012	0.0124
996	20	Biased	30.276	30.329	0.0531
997	20	Biased	30.863	30.967	0.1043
998	20	Biased	30.358	30.302	-0.0567
999	20	Biased	30.887	30.895	0.0081
1020	30	Unbiased	30.367	30.26	-0.1069
1021	30	Unbiased	30.869	31.366	0.4974
1022	30	Unbiased	30.828	30.991	0.1628
1023	30	Unbiased	30.925	31.055	0.13
1024	30	Unbiased	30.733	30.574	-0.1584
1025	30	Biased	30.686	30.989	0.3032
1026	30	Biased	31.395	31.994	0.5988
1027	30	Biased	31.14	31.469	0.3287
1028	30	Biased	30.915	30.911	-0.0035
1029	30	Biased	31.144	31.419	0.275
1030	50	Unbiased	31.018	31.168	0.1501
1031	50	Unbiased	30.699	30.698	-0.0002
1032	50	Unbiased	30.685	30.652	-0.0325
1033	50	Unbiased	30.818	30.669	-0.1485
1034	50	Unbiased	30.884	30.556	-0.3282
1035	50	Biased-84Hr-Anneal	30.866	31.115	0.2489
1036	50	Biased-84Hr-Anneal	30.971	31.083	0.1119
1037	50	Biased-84Hr-Anneal	31.555	32.614	1.0583
1038	50	Biased-84Hr-Anneal	31.562	30.651	-0.9109
1039	50	Biased-84Hr-Anneal	30.856	31.902	1.0466

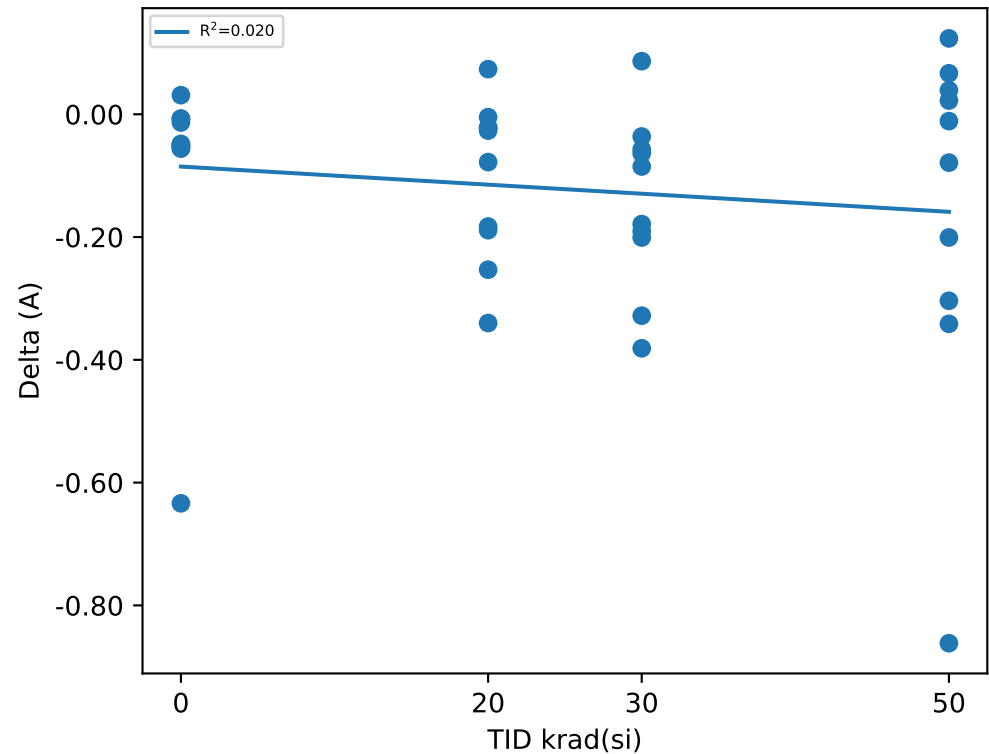
Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	30.871	30.988	31.26	0.16159	30.821	31.172	31.746	0.35593	-0.1187	0.18372	0.8632	0.42341
20	30.276	30.693	31.024	0.28444	30.302	30.71	31.12	0.3388	-0.0973	0.01753	0.2235	0.096963
30	30.367	30.9	31.395	0.28428	30.26	31.103	31.994	0.4889	-0.1584	0.20271	0.5988	0.24734
50	30.685	30.991	31.562	0.31623	30.556	31.111	32.614	0.66519	-0.9109	0.11955	1.0583	0.58973

TID vs Result Stats



TID vs Post - Pre Exposure Delta



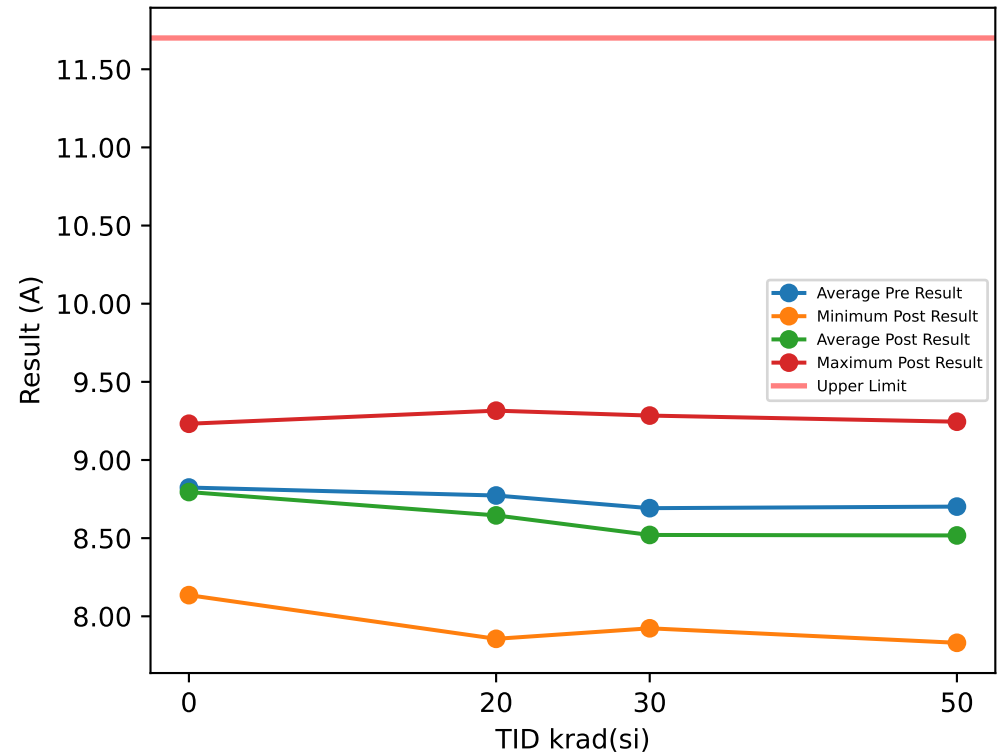
Test Results (Upper Limit = 7.4 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.4094	4.7757	-0.6337
516	0	CORRELATION	5.5965	5.5832	-0.0133
721	0	CORRELATION	5.3797	5.4108	0.0311
723	0	CORRELATION	5.7629	5.7112	-0.0517
729	0	CORRELATION	5.3999	5.3927	-0.0072
990	20	Unbiased	5.4504	5.2675	-0.1829
991	20	Unbiased	5.4494	5.1093	-0.3401
992	20	Unbiased	5.3328	5.0796	-0.2532
993	20	Unbiased	5.6375	5.4487	-0.1888
994	20	Unbiased	4.9175	4.8396	-0.0779
995	20	Biased	5.9343	5.9077	-0.0266
996	20	Biased	5.4095	5.3873	-0.0222
997	20	Biased	5.8625	5.936	0.0735
998	20	Biased	5.3884	5.3837	-0.0047
999	20	Biased	5.6948	5.6738	-0.021
1020	30	Unbiased	5.1915	5.1345	-0.057
1021	30	Unbiased	5.141	5.2275	0.0865
1022	30	Unbiased	5.2637	5.0848	-0.1789
1023	30	Unbiased	5.665	5.6288	-0.0362
1024	30	Unbiased	5.2965	5.2329	-0.0636
1025	30	Biased	5.109	4.7809	-0.3281
1026	30	Biased	5.1079	4.9071	-0.2008
1027	30	Biased	5.8967	5.7063	-0.1904
1028	30	Biased	6.15	5.7688	-0.3812
1029	30	Biased	5.2748	5.1897	-0.0851
1030	50	Unbiased	5.5653	5.6044	0.0391
1031	50	Unbiased	5.3932	5.46	0.0668
1032	50	Unbiased	5.5536	5.4748	-0.0788
1033	50	Unbiased	5.4504	5.4728	0.0224
1034	50	Unbiased	5.4195	5.4084	-0.0111
1035	50	Biased-84Hr-Anneal	5.1671	4.8257	-0.3414
1036	50	Biased-84Hr-Anneal	5.2237	4.9199	-0.3038
1037	50	Biased-84Hr-Anneal	5.8702	5.6695	-0.2007
1038	50	Biased-84Hr-Anneal	4.9015	5.0251	0.1236
1039	50	Biased-84Hr-Anneal	5.51	4.6484	-0.8616

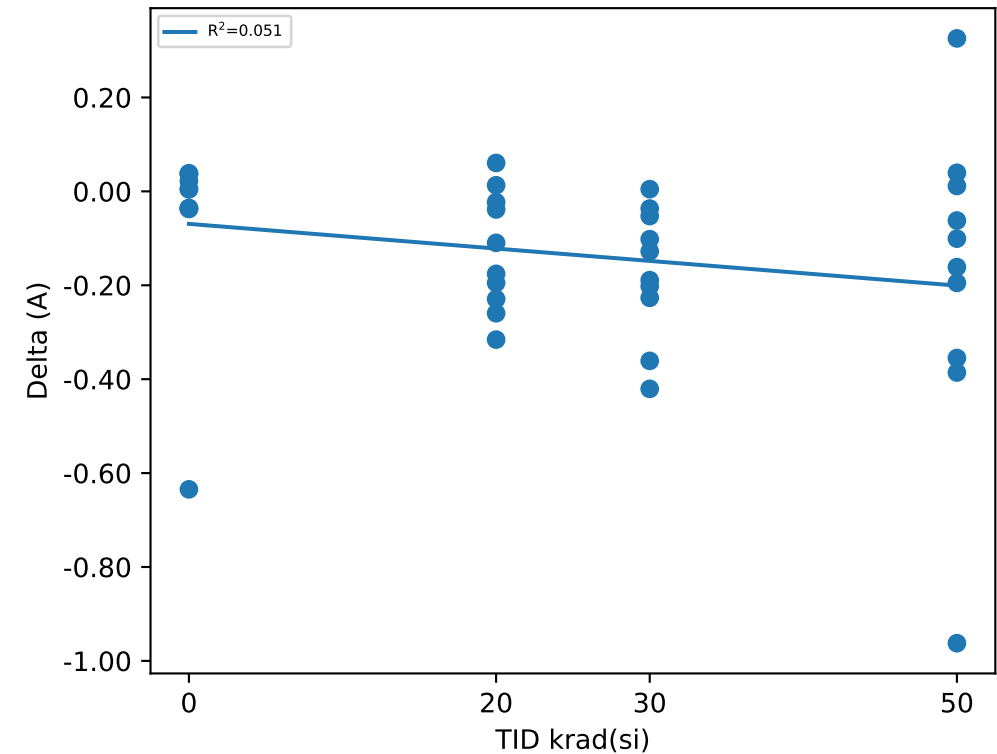
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.3797	5.5097	5.7629	0.16633	4.7757	5.3747	5.7112	0.35956	-0.6337	-0.13496	0.0311	0.28035
20	4.9175	5.5077	5.9343	0.29235	4.8396	5.4033	5.936	0.35613	-0.3401	-0.10439	0.0735	0.1304
30	5.1079	5.4096	6.15	0.36576	4.7809	5.2661	5.7688	0.33349	-0.3812	-0.14348	0.0865	0.14103
50	4.9015	5.4055	5.8702	0.26259	4.6484	5.2509	5.6695	0.36093	-0.8616	-0.15455	0.1236	0.29453

TID vs Result Stats



TID vs Post - Pre Exposure Delta



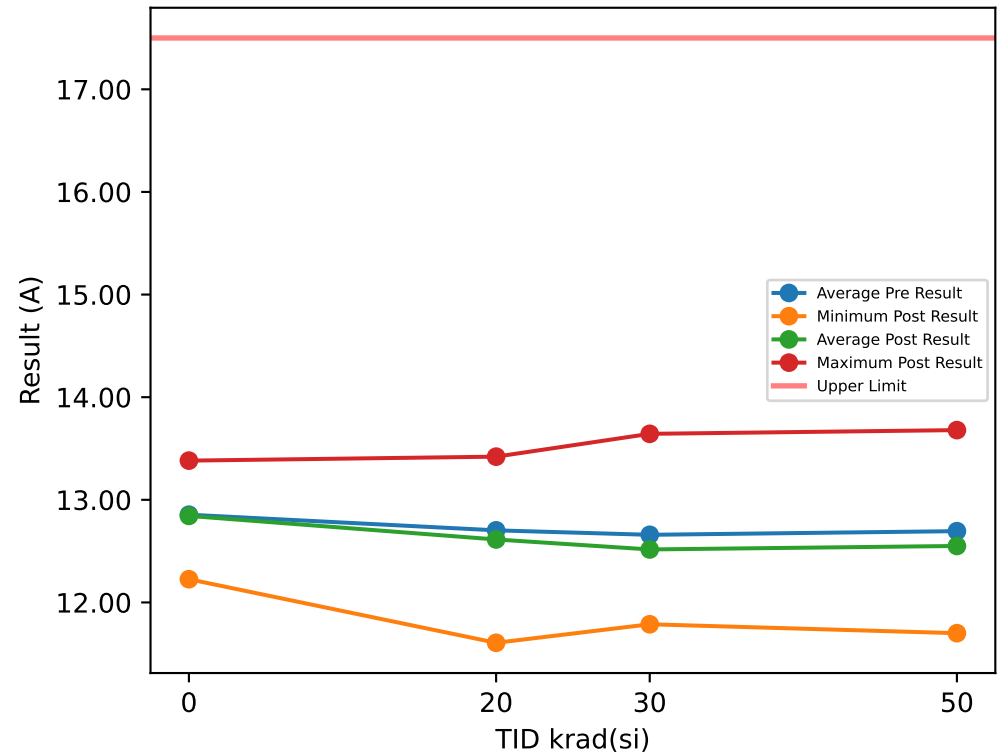
Test Results (Upper Limit = 11.7 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	8.77	8.1354	-0.6346
516	0	CORRELATION	8.8716	8.8935	0.0219
721	0	CORRELATION	8.724	8.7626	0.0386
723	0	CORRELATION	9.1947	9.232	0.0373
729	0	CORRELATION	8.5591	8.5638	0.0047
990	20	Unbiased	8.7985	8.5389	-0.2596
991	20	Unbiased	8.7207	8.405	-0.3157
992	20	Unbiased	8.3655	8.1898	-0.1757
993	20	Unbiased	8.9744	8.7795	-0.1949
994	20	Unbiased	8.0853	7.8559	-0.2294
995	20	Biased	9.3387	9.3157	-0.023
996	20	Biased	8.6945	8.755	0.0605
997	20	Biased	9.2972	9.2587	-0.0385
998	20	Biased	8.4916	8.5046	0.013
999	20	Biased	8.9626	8.8529	-0.1097
1020	30	Unbiased	8.3033	8.2667	-0.0366
1021	30	Unbiased	8.3684	8.3731	0.0047
1022	30	Unbiased	8.3943	8.2925	-0.1018
1023	30	Unbiased	9.0138	8.9612	-0.0526
1024	30	Unbiased	8.6123	8.4847	-0.1276
1025	30	Biased	8.2843	7.9233	-0.361
1026	30	Biased	8.3395	8.1504	-0.1891
1027	30	Biased	9.3689	9.1422	-0.2267
1028	30	Biased	9.7049	9.2843	-0.4206
1029	30	Biased	8.5288	8.3268	-0.202
1030	50	Unbiased	8.9141	8.9256	0.0115
1031	50	Unbiased	8.7043	8.6036	-0.1007
1032	50	Unbiased	9.0289	8.8676	-0.1613
1033	50	Unbiased	8.6656	8.7052	0.0396
1034	50	Unbiased	8.634	8.5719	-0.0621
1035	50	Biased-84Hr-Anneal	8.3825	8.0276	-0.3549
1036	50	Biased-84Hr-Anneal	8.4193	8.0335	-0.3858
1037	50	Biased-84Hr-Anneal	9.4399	9.245	-0.1949
1038	50	Biased-84Hr-Anneal	8.0373	8.3631	0.3258
1039	50	Biased-84Hr-Anneal	8.7928	7.8305	-0.9623

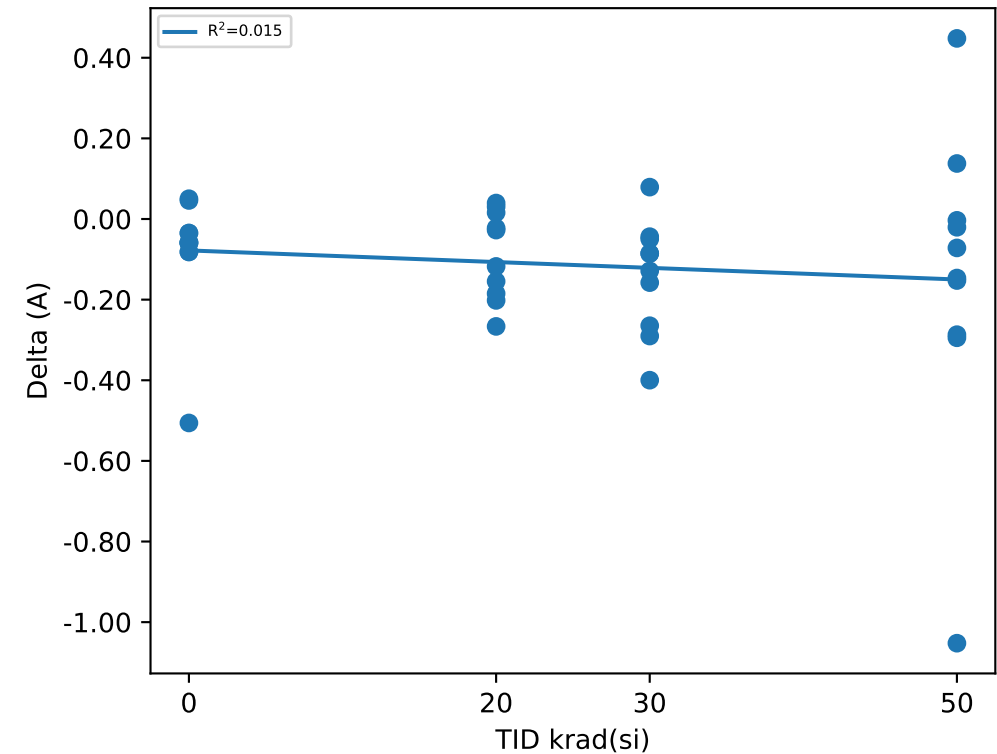
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.5591	8.8239	9.1947	0.23599	8.1354	8.7175	9.232	0.40626	-0.6346	-0.10642	0.0386	0.29558
20	8.0853	8.7729	9.3387	0.39427	7.8559	8.6456	9.3157	0.44948	-0.3157	-0.1273	0.0605	0.12665
30	8.2843	8.6918	9.7049	0.50062	7.9233	8.5205	9.2843	0.4515	-0.4206	-0.17133	0.0047	0.13841
50	8.0373	8.7019	9.4399	0.38505	7.8305	8.5174	9.245	0.45142	-0.9623	-0.18451	0.3258	0.34095

TID vs Result Stats



TID vs Post - Pre Exposure Delta



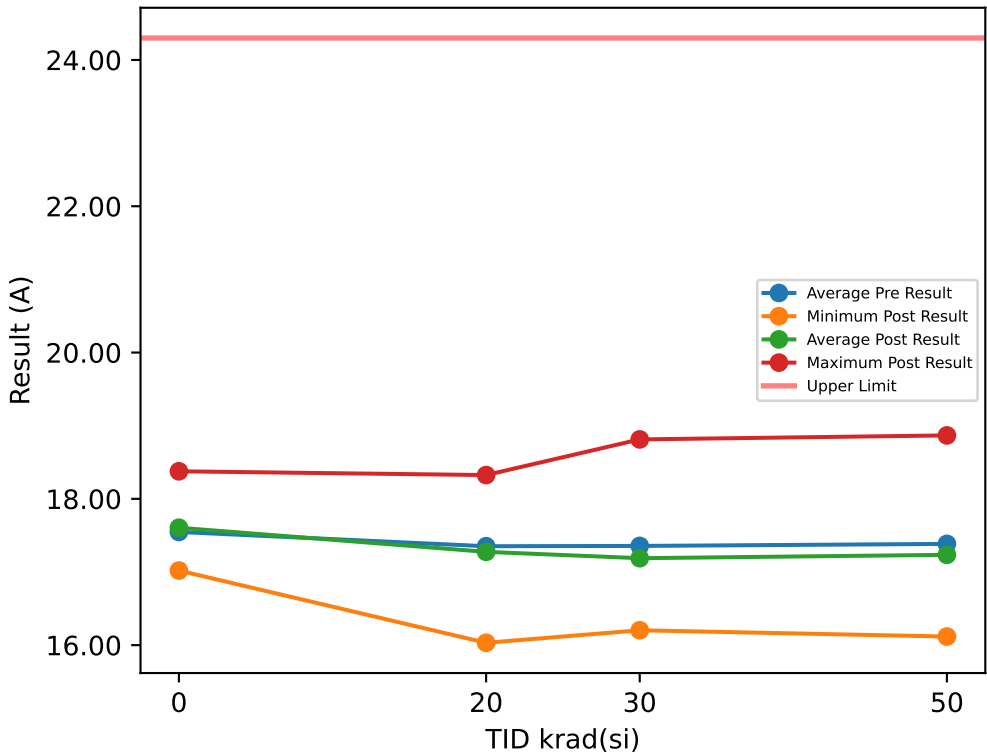
Test Results (Upper Limit = 17.5 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	12.732	12.226	-0.5059
516	0	CORRELATION	12.837	12.887	0.0503
721	0	CORRELATION	12.747	12.793	0.046
723	0	CORRELATION	13.417	13.359	-0.0579
729	0	CORRELATION	12.543	12.483	-0.0599
990	20	Unbiased	12.742	12.587	-0.1547
991	20	Unbiased	12.665	12.399	-0.2664
992	20	Unbiased	12.117	11.999	-0.1176
993	20	Unbiased	13.164	12.979	-0.1849
994	20	Unbiased	11.809	11.607	-0.2019
995	20	Biased	13.443	13.421	-0.0224
996	20	Biased	12.677	12.717	0.0396
997	20	Biased	13.342	13.372	0.0306
998	20	Biased	12.238	12.254	0.0158
999	20	Biased	12.83	12.802	-0.0275
1020	30	Unbiased	12.069	11.983	-0.0855
1021	30	Unbiased	12.199	12.278	0.0791
1022	30	Unbiased	12.148	12.104	-0.0438
1023	30	Unbiased	13.22	13.171	-0.0497
1024	30	Unbiased	12.519	12.433	-0.0856
1025	30	Biased	12.078	11.787	-0.2903
1026	30	Biased	12.247	12.118	-0.1286
1027	30	Biased	13.604	13.339	-0.2647
1028	30	Biased	14.043	13.643	-0.3998
1029	30	Biased	12.465	12.307	-0.1578
1030	50	Unbiased	12.876	13.014	0.1377
1031	50	Unbiased	12.621	12.601	-0.0205
1032	50	Unbiased	13.264	13.118	-0.1464
1033	50	Unbiased	12.705	12.702	-0.0033
1034	50	Unbiased	12.518	12.366	-0.1526
1035	50	Biased-84Hr-Anneal	12.366	12.071	-0.2946
1036	50	Biased-84Hr-Anneal	12.228	11.941	-0.2869
1037	50	Biased-84Hr-Anneal	13.751	13.679	-0.0717
1038	50	Biased-84Hr-Anneal	11.864	12.312	0.448
1039	50	Biased-84Hr-Anneal	12.753	11.7	-1.0522

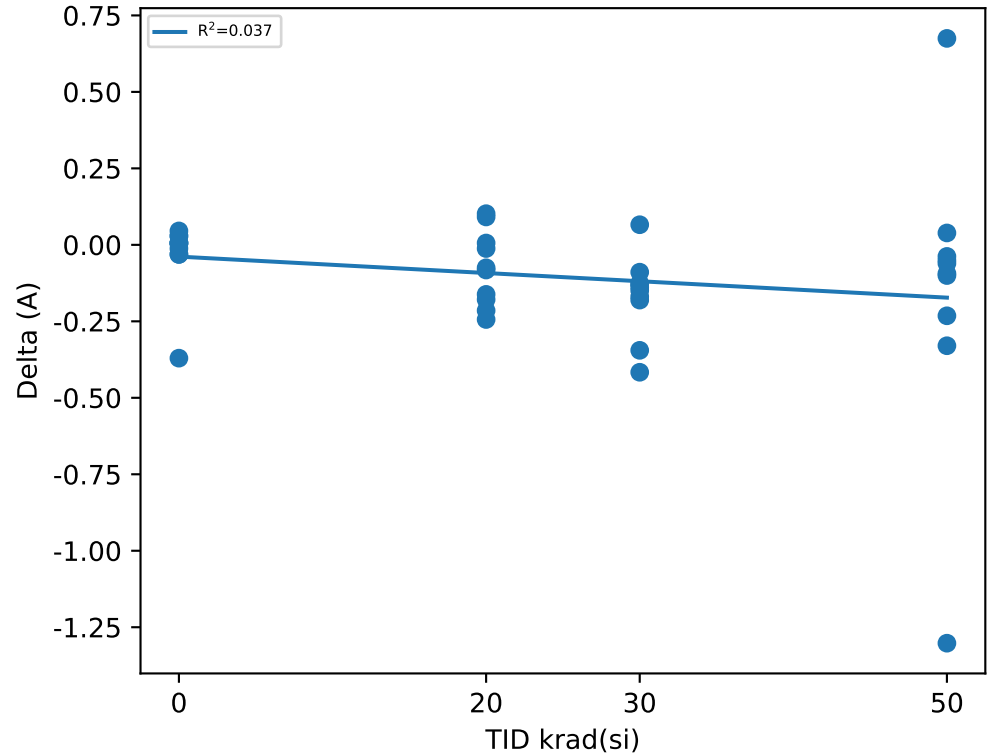
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.543	12.855	13.417	0.33175	12.226	12.75	13.359	0.42919	-0.5059	-0.10548	0.0503	0.23016
20	11.809	12.703	13.443	0.53202	11.607	12.614	13.421	0.57486	-0.2664	-0.08894	0.0396	0.10984
30	12.069	12.659	14.043	0.70792	11.787	12.516	13.643	0.63484	-0.3998	-0.14267	0.0791	0.14038
50	11.864	12.695	13.751	0.53015	11.7	12.55	13.679	0.60102	-1.0522	-0.14425	0.448	0.38559

TID vs Result Stats



TID vs Post - Pre Exposure Delta



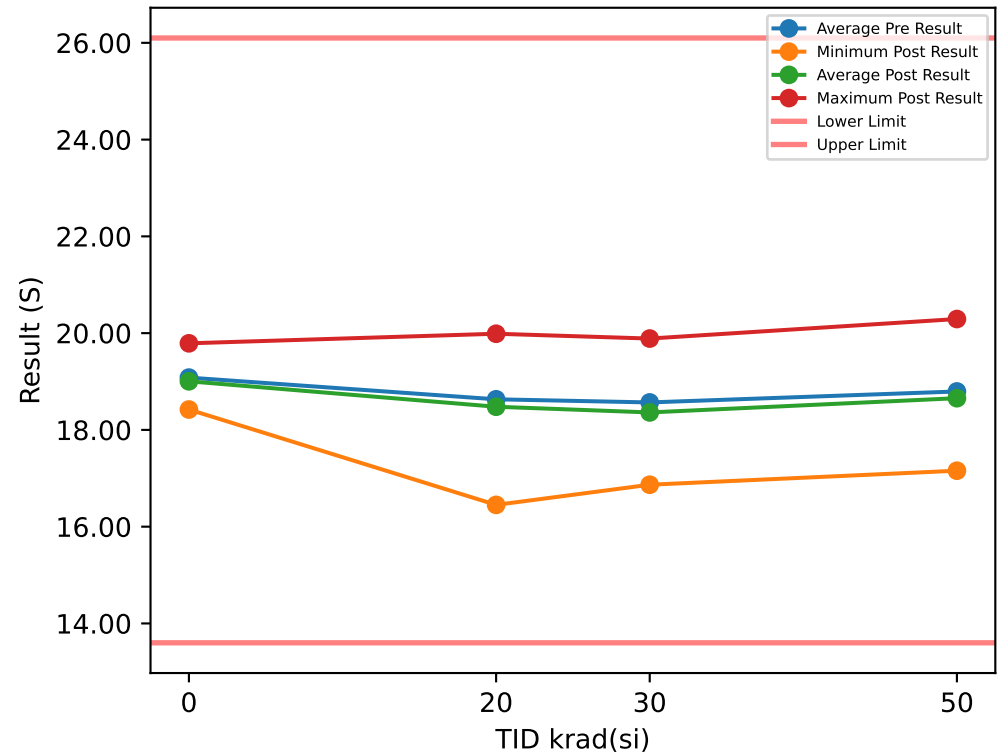
Test Results (Upper Limit = 24.3 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	17.39	17.02	-0.3704
516	0	CORRELATION	17.482	17.527	0.0455
721	0	CORRELATION	17.451	17.439	-0.0119
723	0	CORRELATION	18.347	18.352	0.0051
729	0	CORRELATION	17.065	17.034	-0.0311
990	20	Unbiased	17.477	17.262	-0.2148
991	20	Unbiased	17.337	17.093	-0.244
992	20	Unbiased	16.48	16.398	-0.0823
993	20	Unbiased	18.04	17.861	-0.1788
994	20	Unbiased	16.194	16.032	-0.1619
995	20	Biased	18.36	18.285	-0.075
996	20	Biased	17.218	17.319	0.1019
997	20	Biased	18.319	18.325	0.006
998	20	Biased	16.624	16.715	0.0912
999	20	Biased	17.474	17.462	-0.012
1020	30	Unbiased	16.597	16.428	-0.1692
1021	30	Unbiased	16.713	16.779	0.0658
1022	30	Unbiased	16.681	16.532	-0.1493
1023	30	Unbiased	18.115	18.026	-0.0893
1024	30	Unbiased	17.137	17.007	-0.1296
1025	30	Biased	16.548	16.203	-0.3448
1026	30	Biased	16.895	16.756	-0.1381
1027	30	Biased	18.576	18.395	-0.1806
1028	30	Biased	19.229	18.812	-0.4165
1029	30	Biased	17.073	16.947	-0.1259
1030	50	Unbiased	17.684	17.723	0.0389
1031	50	Unbiased	17.234	17.141	-0.0936
1032	50	Unbiased	18.141	18.09	-0.0507
1033	50	Unbiased	17.533	17.472	-0.0606
1034	50	Unbiased	17.035	16.935	-0.1003
1035	50	Biased-84Hr-Anneal	16.955	16.625	-0.3298
1036	50	Biased-84Hr-Anneal	16.659	16.427	-0.2319
1037	50	Biased-84Hr-Anneal	18.905	18.867	-0.0378
1038	50	Biased-84Hr-Anneal	16.274	16.948	0.6749
1039	50	Biased-84Hr-Anneal	17.42	16.117	-1.3022

Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	17.065	17.547	18.347	0.47716	17.02	17.475	18.352	0.54212	-0.3704	-0.07256	0.0455	0.16888
20	16.194	17.352	18.36	0.75306	16.032	17.275	18.325	0.75746	-0.244	-0.07697	0.1019	0.12288
30	16.548	17.356	19.229	0.94349	16.203	17.189	18.812	0.89574	-0.4165	-0.16775	0.0658	0.13271
50	16.274	17.384	18.905	0.75184	16.117	17.235	18.867	0.82632	-1.3022	-0.14931	0.6749	0.48521

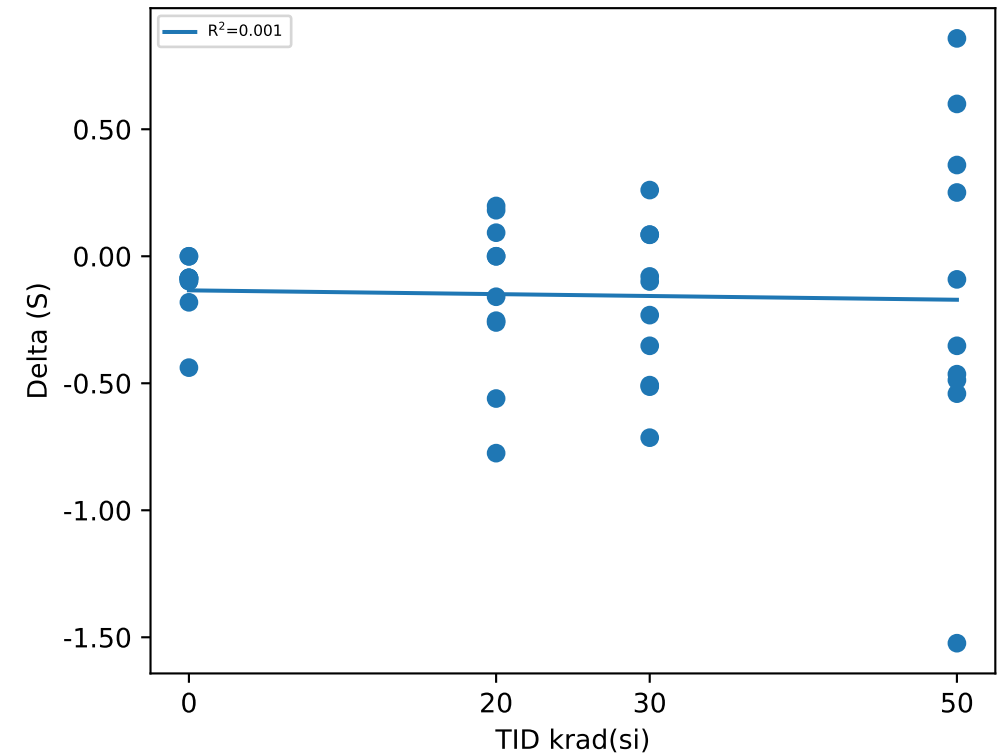
TID vs Result Stats



Test Results (Lower Limit = 13.6, Upper Limit = 26.1 (S))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	18.945	18.507	-0.4385
516	0	CORRELATION	19.036	18.945	-0.0903
721	0	CORRELATION	19.127	18.945	-0.1813
723	0	CORRELATION	19.79	19.79	-0.0001
729	0	CORRELATION	18.507	18.422	-0.0853
990	20	Unbiased	18.768	18.507	-0.2607
991	20	Unbiased	18.945	18.17	-0.7751
992	20	Unbiased	17.926	17.767	-0.1594
993	20	Unbiased	19.79	19.988	0.198
994	20	Unbiased	17.011	16.451	-0.5601
995	20	Biased	19.219	19.312	0.0928
996	20	Biased	18.088	18.088	0
997	20	Biased	19.127	19.127	0
998	20	Biased	18.507	18.253	-0.2536
999	20	Biased	18.946	19.127	0.1812
1020	30	Unbiased	17.38	16.867	-0.5134
1021	30	Unbiased	18.337	18.422	0.0845
1022	30	Unbiased	17.688	17.456	-0.2317
1023	30	Unbiased	18.507	18.768	0.2606
1024	30	Unbiased	18.945	18.593	-0.3525
1025	30	Biased	18.171	17.456	-0.7142
1026	30	Biased	18.422	18.507	0.0854
1027	30	Biased	19.988	19.888	-0.0994
1028	30	Biased	20.395	19.888	-0.5073
1029	30	Biased	17.846	17.767	-0.0794
1030	50	Unbiased	18.768	19.127	0.3592
1031	50	Unbiased	18.171	18.422	0.2511
1032	50	Unbiased	19.988	19.5	-0.4876
1033	50	Unbiased	19.127	19.036	-0.091
1034	50	Unbiased	19.5	19.036	-0.4642
1035	50	Biased-84Hr-Anneal	18.945	18.593	-0.3525
1036	50	Biased-84Hr-Anneal	17.846	17.305	-0.5409
1037	50	Biased-84Hr-Anneal	19.692	20.292	0.5997
1038	50	Biased-84Hr-Anneal	17.231	18.088	0.8577
1039	50	Biased-84Hr-Anneal	18.68	17.157	-1.5233

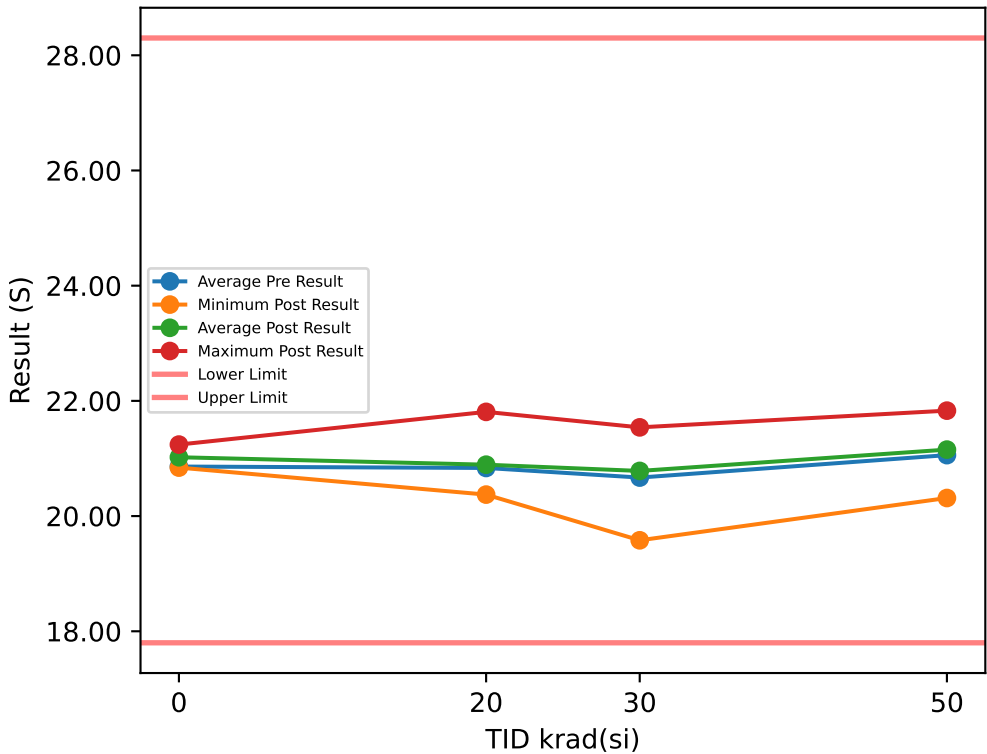
TID vs Post - Pre Exposure Delta



Test Statistics (S)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.507	19.081	19.79	0.46212	18.422	18.922	19.79	0.5423	-0.4385	-0.1591	-0.0001	0.16883
20	17.011	18.633	19.79	0.78757	16.451	18.479	19.988	0.98487	-0.7751	-0.15369	0.198	0.31913
30	17.38	18.568	20.395	0.96835	16.867	18.361	19.888	1.0072	-0.7142	-0.20674	0.2606	0.31271
50	17.231	18.795	19.988	0.85691	17.157	18.655	20.292	0.96334	-1.5233	-0.13918	0.8577	0.69061

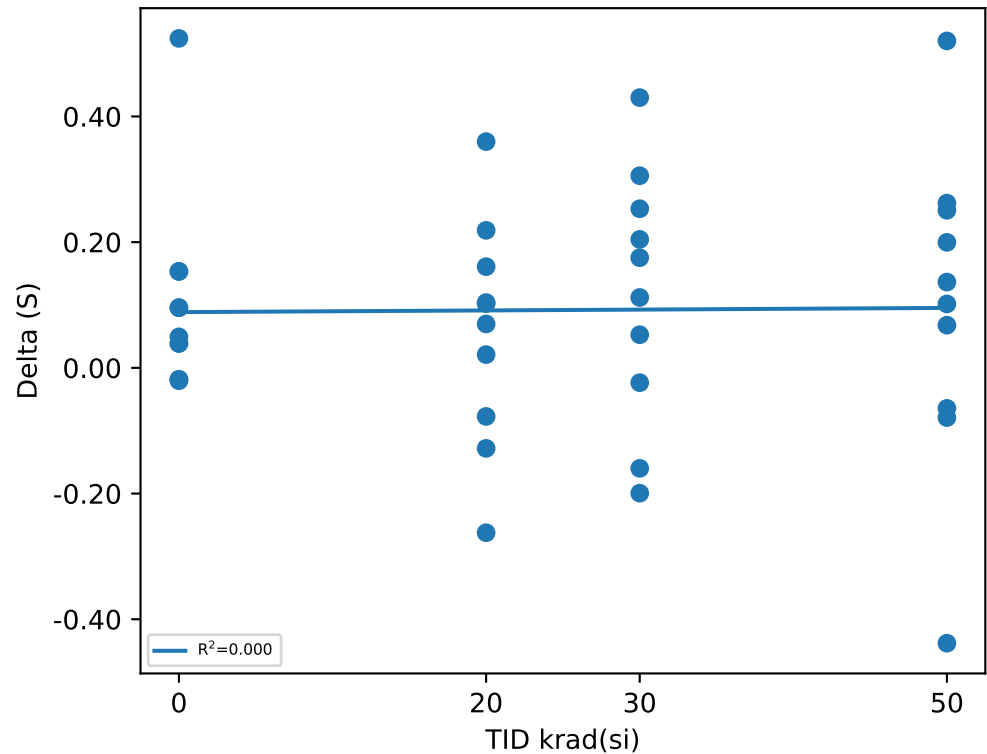
TID vs Result Stats



Test Results (Lower Limit = 17.8, Upper Limit = 28.3 (S))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	21.019	20.998	-0.0204
516	0	CORRELATION	20.468	20.992	0.5242
721	0	CORRELATION	20.865	20.915	0.0493
723	0	CORRELATION	21.088	21.183	0.0957
729	0	CORRELATION	20.86	20.899	0.0389
990	20	Unbiased	20.569	20.639	0.0699
991	20	Unbiased	20.694	20.913	0.2188
992	20	Unbiased	20.995	20.732	-0.2623
993	20	Unbiased	21.937	21.809	-0.1281
994	20	Unbiased	20.271	20.373	0.1022
995	20	Biased	20.935	20.956	0.0211
996	20	Biased	20.346	20.45	0.1039
997	20	Biased	20.413	20.773	0.36
998	20	Biased	21.105	21.028	-0.0773
999	20	Biased	21.089	21.25	0.161
1020	30	Unbiased	19.779	19.579	-0.1994
1021	30	Unbiased	20.674	20.927	0.2532
1022	30	Unbiased	20.13	20.334	0.2044
1023	30	Unbiased	20.628	20.741	0.112
1024	30	Unbiased	20.896	21.326	0.43
1025	30	Biased	20.293	20.599	0.3057
1026	30	Biased	21.246	21.298	0.0527
1027	30	Biased	21.365	21.54	0.1753
1028	30	Biased	21.657	21.498	-0.1599
1029	30	Biased	20.018	19.994	-0.0236
1030	50	Unbiased	20.832	21.032	0.1997
1031	50	Unbiased	20.823	20.959	0.1365
1032	50	Unbiased	21.273	21.209	-0.0645
1033	50	Unbiased	21.227	21.478	0.2507
1034	50	Unbiased	21.568	21.83	0.2621
1035	50	Biased-84Hr-Anneal	21.797	21.718	-0.0791
1036	50	Biased-84Hr-Anneal	20.246	20.314	0.0679
1037	50	Biased-84Hr-Anneal	21.716	21.817	0.1017
1038	50	Biased-84Hr-Anneal	20.145	20.665	0.5202
1039	50	Biased-84Hr-Anneal	20.955	20.517	-0.4381

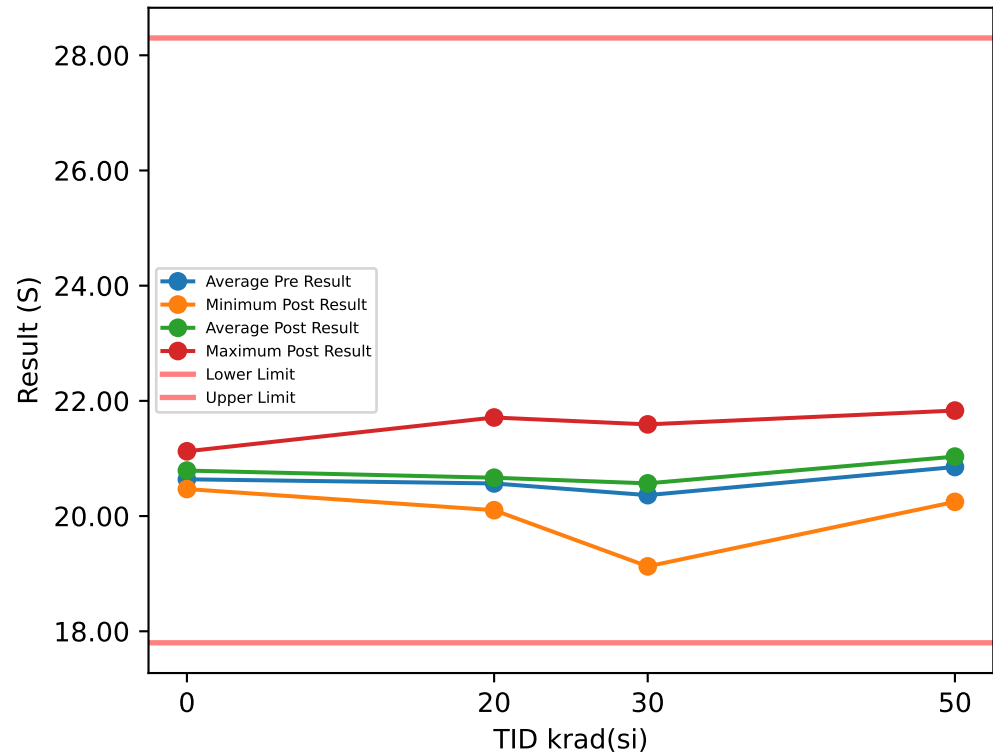
TID vs Post - Pre Exposure Delta



Test Statistics (S)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.468	20.86	21.088	0.24023	20.899	20.998	21.183	0.11316	-0.0204	0.13754	0.5242	0.22007
20	20.271	20.835	21.937	0.49592	20.373	20.892	21.809	0.41634	-0.2623	0.05692	0.36	0.17912
30	19.779	20.669	21.657	0.62314	19.579	20.784	21.54	0.66436	-0.1994	0.11504	0.43	0.20106
50	20.145	21.058	21.797	0.57006	20.314	21.154	21.83	0.55046	-0.4381	0.09571	0.5202	0.25525

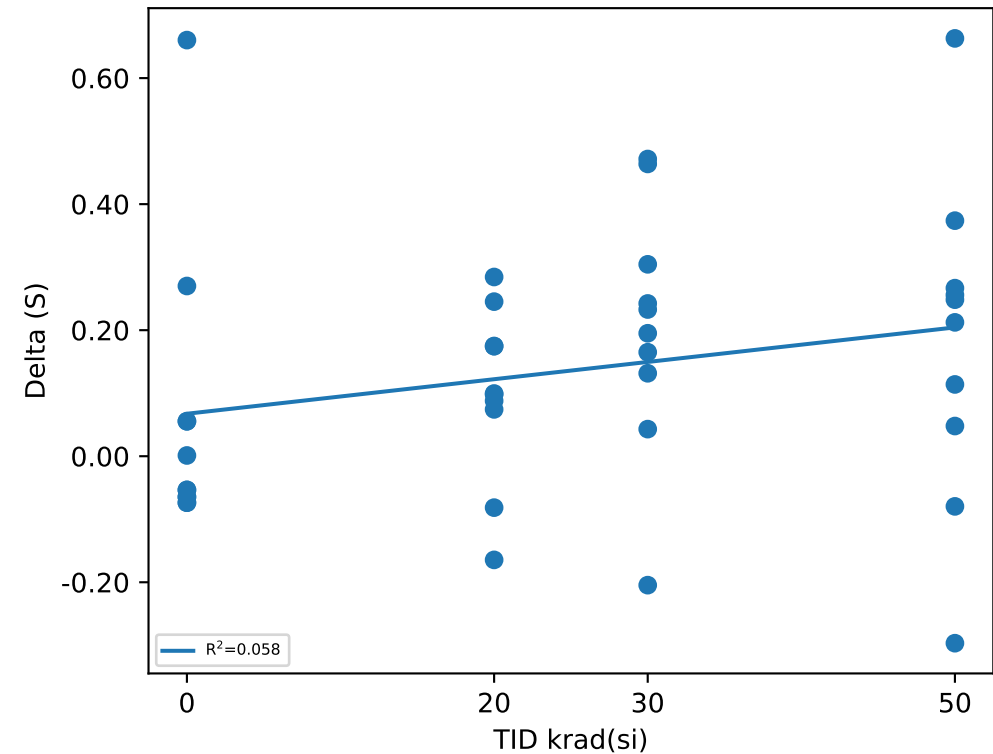
TID vs Result Stats



Test Results (Lower Limit = 17.8, Upper Limit = 28.3 (S))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	20.57	20.841	0.2701
516	0	CORRELATION	20.266	20.926	0.6603
721	0	CORRELATION	20.745	20.746	0.0012
723	0	CORRELATION	21.069	21.005	-0.0646
729	0	CORRELATION	20.543	20.49	-0.0535
990	20	Unbiased	20.3	20.399	0.0995
991	20	Unbiased	20.569	20.814	0.2453
992	20	Unbiased	20.479	20.314	-0.1645
993	20	Unbiased	21.637	21.712	0.0743
994	20	Unbiased	19.965	20.14	0.1748
995	20	Biased	20.424	20.522	0.0981
996	20	Biased	20.014	20.102	0.0879
997	20	Biased	20.349	20.524	0.1746
998	20	Biased	21.043	20.962	-0.0816
999	20	Biased	20.886	21.17	0.2844
1020	30	Unbiased	19.331	19.127	-0.2046
1021	30	Unbiased	20.429	20.671	0.2424
1022	30	Unbiased	19.801	20.272	0.4716
1023	30	Unbiased	20.223	20.355	0.1316
1024	30	Unbiased	21.006	21.311	0.3045
1025	30	Biased	19.999	20.463	0.4638
1026	30	Biased	20.84	21.005	0.165
1027	30	Biased	21.004	21.237	0.2328
1028	30	Biased	21.397	21.592	0.1951
1029	30	Biased	19.605	19.648	0.043
1030	50	Unbiased	20.42	20.793	0.3738
1031	50	Unbiased	20.323	20.579	0.2558
1032	50	Unbiased	21.329	21.249	-0.0796
1033	50	Unbiased	21.297	21.51	0.2124
1034	50	Unbiased	21.565	21.832	0.2667
1035	50	Biased-84Hr-Anneal	21.595	21.709	0.1139
1036	50	Biased-84Hr-Anneal	19.999	20.247	0.2484
1037	50	Biased-84Hr-Anneal	21.479	21.527	0.0479
1038	50	Biased-84Hr-Anneal	19.904	20.567	0.663
1039	50	Biased-84Hr-Anneal	20.609	20.312	-0.2967

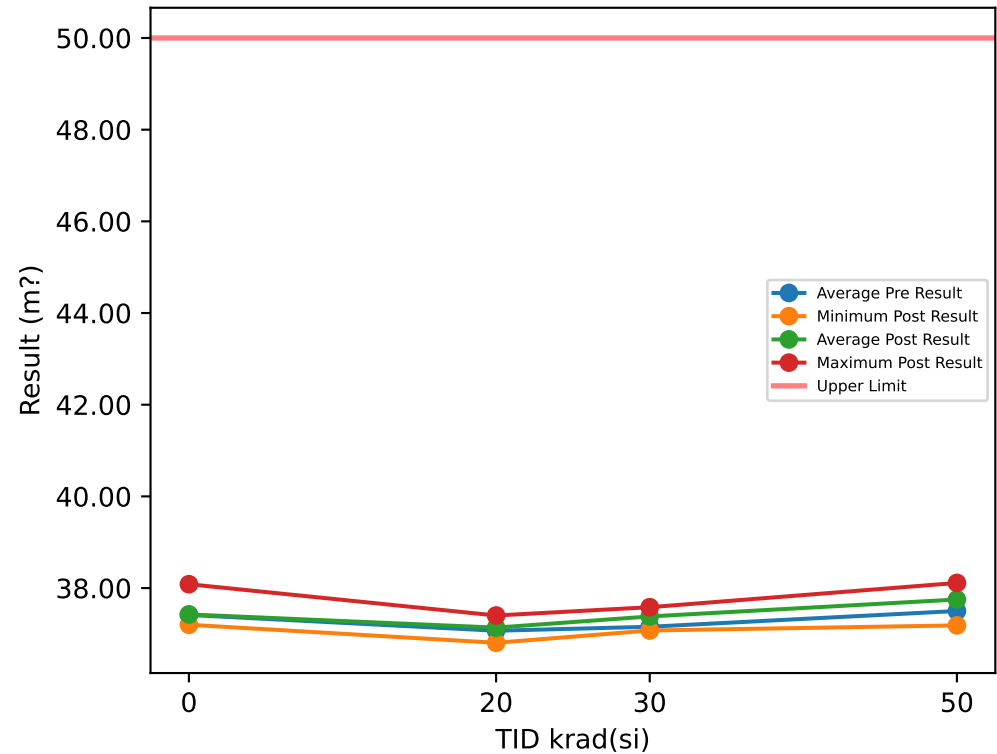
TID vs Post - Pre Exposure Delta



Test Statistics (S)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.266	20.639	21.069	0.29558	20.49	20.801	21.005	0.19911	-0.0646	0.1627	0.6603	0.30969
20	19.965	20.566	21.637	0.50429	20.102	20.666	21.712	0.50412	-0.1645	0.09928	0.2844	0.13744
30	19.331	20.364	21.397	0.68576	19.127	20.568	21.592	0.7686	-0.2046	0.20452	0.4716	0.19755
50	19.904	20.852	21.595	0.66936	20.247	21.033	21.832	0.59918	-0.2967	0.18056	0.663	0.25955

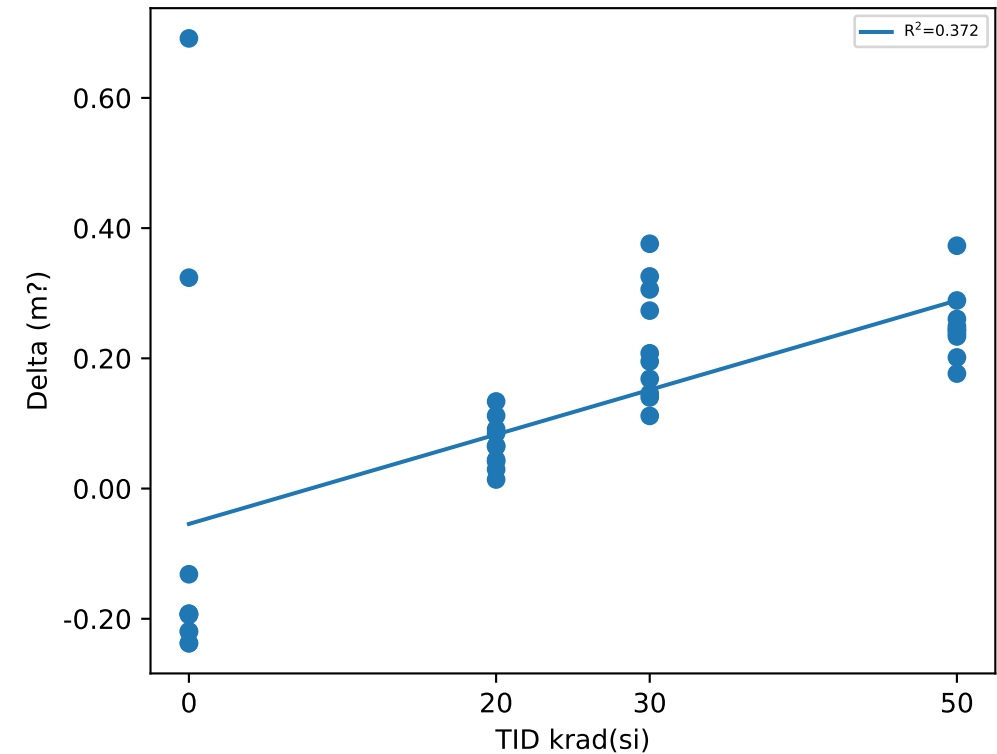
TID vs Result Stats



Test Results (Upper Limit = 50.0 (m?))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	37.392	38.084	0.6914
516	0	CORRELATION	37.208	37.532	0.3239
721	0	CORRELATION	37.332	37.2	-0.1316
723	0	CORRELATION	37.644	37.45	-0.1937
729	0	CORRELATION	37.492	37.3	-0.1923
990	20	Unbiased	36.714	36.825	0.1119
991	20	Unbiased	37.139	37.224	0.085
992	20	Unbiased	37.085	37.15	0.0645
993	20	Unbiased	37.268	37.401	0.1338
994	20	Unbiased	37.092	37.157	0.0656
995	20	Biased	37.135	37.179	0.0442
996	20	Biased	36.777	36.806	0.0294
997	20	Biased	37.182	37.273	0.0914
998	20	Biased	37.029	37.042	0.0139
999	20	Biased	37.272	37.314	0.0417
1020	30	Unbiased	36.903	37.209	0.3058
1021	30	Unbiased	37.063	37.439	0.376
1022	30	Unbiased	37.375	37.583	0.2078
1023	30	Unbiased	36.928	37.074	0.146
1024	30	Unbiased	37.071	37.211	0.14
1025	30	Biased	37.078	37.404	0.3258
1026	30	Biased	37.298	37.571	0.2733
1027	30	Biased	37.361	37.556	0.1952
1028	30	Biased	37.355	37.523	0.1685
1029	30	Biased	37.128	37.24	0.1116
1030	50	Unbiased	37.234	37.468	0.2336
1031	50	Unbiased	36.984	37.186	0.2014
1032	50	Unbiased	37.24	37.483	0.2427
1033	50	Unbiased	37.434	37.695	0.2605
1034	50	Unbiased	37.401	37.577	0.1766
1035	50	Biased-84Hr-Anneal	37.644	37.933	0.2889
1036	50	Biased-84Hr-Anneal	37.721	37.971	0.2493
1037	50	Biased-84Hr-Anneal	37.778	38.022	0.2448
1038	50	Biased-84Hr-Anneal	37.822	38.06	0.2379
1039	50	Biased-84Hr-Anneal	37.739	38.112	0.373

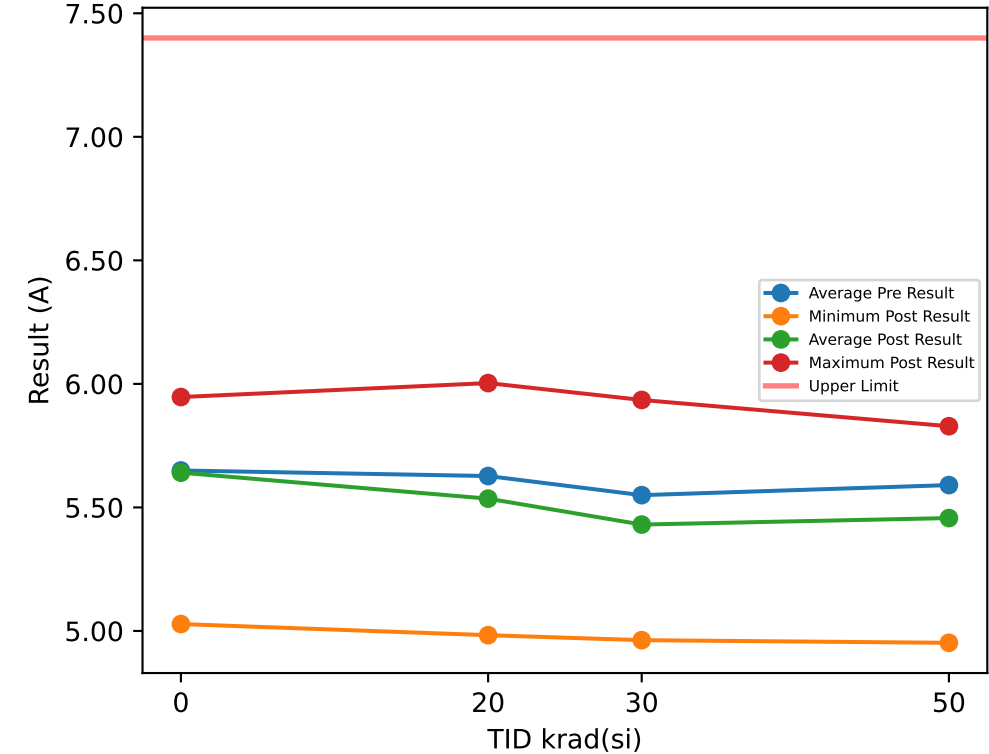
TID vs Post - Pre Exposure Delta



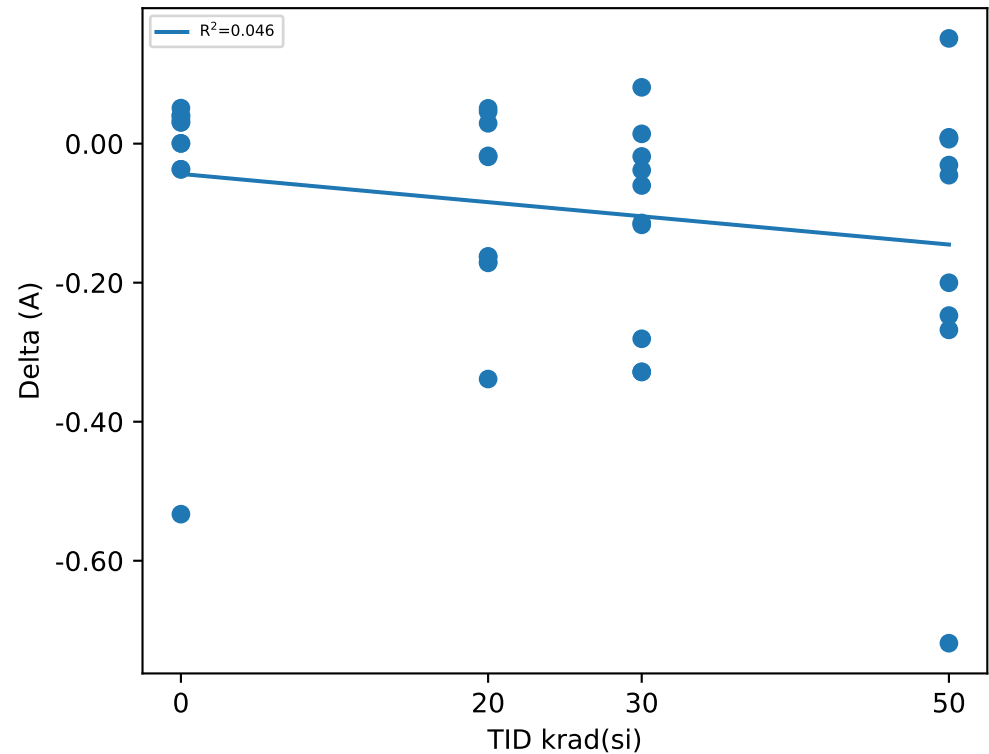
Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	37.208	37.414	37.644	0.16504	37.2	37.513	38.084	0.34396	-0.1937	0.09954	0.6914	0.39535
20	36.714	37.069	37.272	0.18764	36.806	37.137	37.401	0.19584	0.0139	0.06814	0.1338	0.037692
30	36.903	37.156	37.375	0.17889	37.074	37.381	37.583	0.18384	0.1116	0.225	0.376	0.089768
50	36.984	37.5	37.822	0.28398	37.186	37.751	38.112	0.3137	0.1766	0.25087	0.373	0.052695

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 7.4 (A))

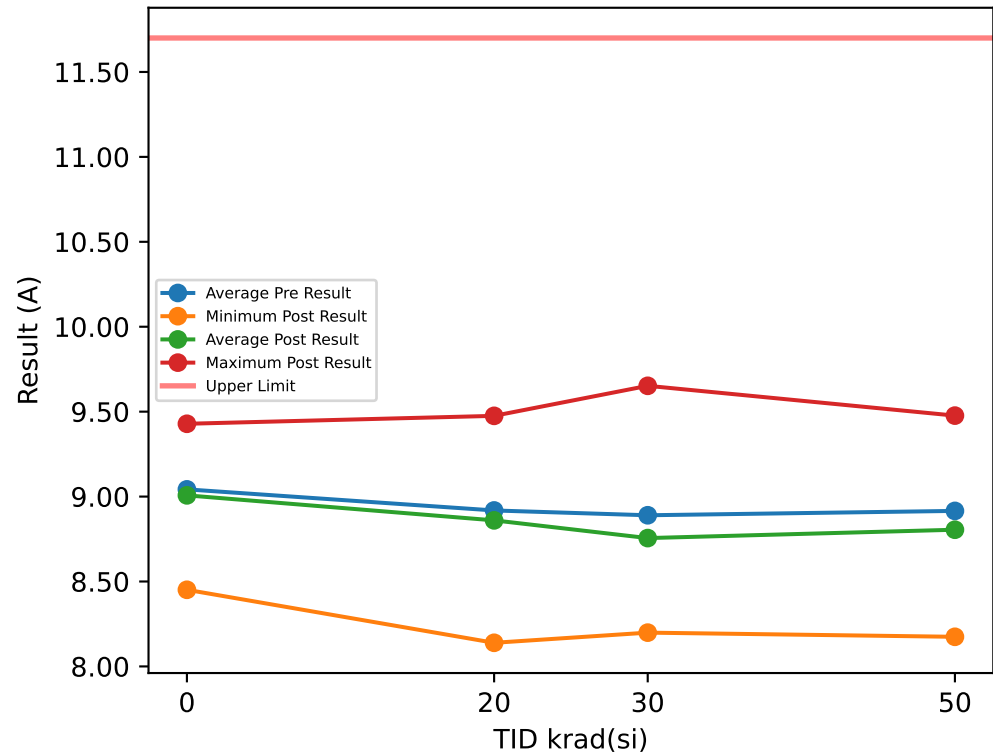
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.561	5.028	-0.533
516	0	CORRELATION	5.7195	5.7706	0.0511
721	0	CORRELATION	5.5747	5.6101	0.0354
723	0	CORRELATION	5.9161	5.9468	0.0307
729	0	CORRELATION	5.4763	5.4767	0.0004
990	20	Unbiased	5.5683	5.3968	-0.1715
991	20	Unbiased	5.7354	5.3968	-0.3386
992	20	Unbiased	5.367	5.1968	-0.1702
993	20	Unbiased	5.7593	5.5971	-0.1622
994	20	Unbiased	5.1457	4.9829	-0.1628
995	20	Biased	5.974	6.0033	0.0293
996	20	Biased	5.4951	5.5412	0.0461
997	20	Biased	6.0068	5.9892	-0.0176
998	20	Biased	5.5119	5.4929	-0.019
999	20	Biased	5.7073	5.7581	0.0508
1020	30	Unbiased	5.327	5.2668	-0.0602
1021	30	Unbiased	5.2819	5.3629	0.081
1022	30	Unbiased	5.3747	5.3563	-0.0184
1023	30	Unbiased	5.7192	5.7333	0.0141
1024	30	Unbiased	5.5055	5.4674	-0.0381
1025	30	Biased	5.2909	4.9627	-0.3282
1026	30	Biased	5.2443	5.1275	-0.1168
1027	30	Biased	6.0618	5.7811	-0.2807
1028	30	Biased	6.2635	5.935	-0.3285
1029	30	Biased	5.4279	5.3138	-0.1141
1030	50	Unbiased	5.7187	5.7251	0.0064
1031	50	Unbiased	5.5257	5.5339	0.0082
1032	50	Unbiased	5.8431	5.7977	-0.0454
1033	50	Unbiased	5.6069	5.616	0.0091
1034	50	Unbiased	5.6071	5.5763	-0.0308
1035	50	Biased-84Hr-Anneal	5.3871	5.1192	-0.2679
1036	50	Biased-84Hr-Anneal	5.3671	5.1198	-0.2473
1037	50	Biased-84Hr-Anneal	6.0288	5.8287	-0.2001
1038	50	Biased-84Hr-Anneal	5.1492	5.3006	0.1514
1039	50	Biased-84Hr-Anneal	5.6707	4.9521	-0.7186

Test Statistics (A)

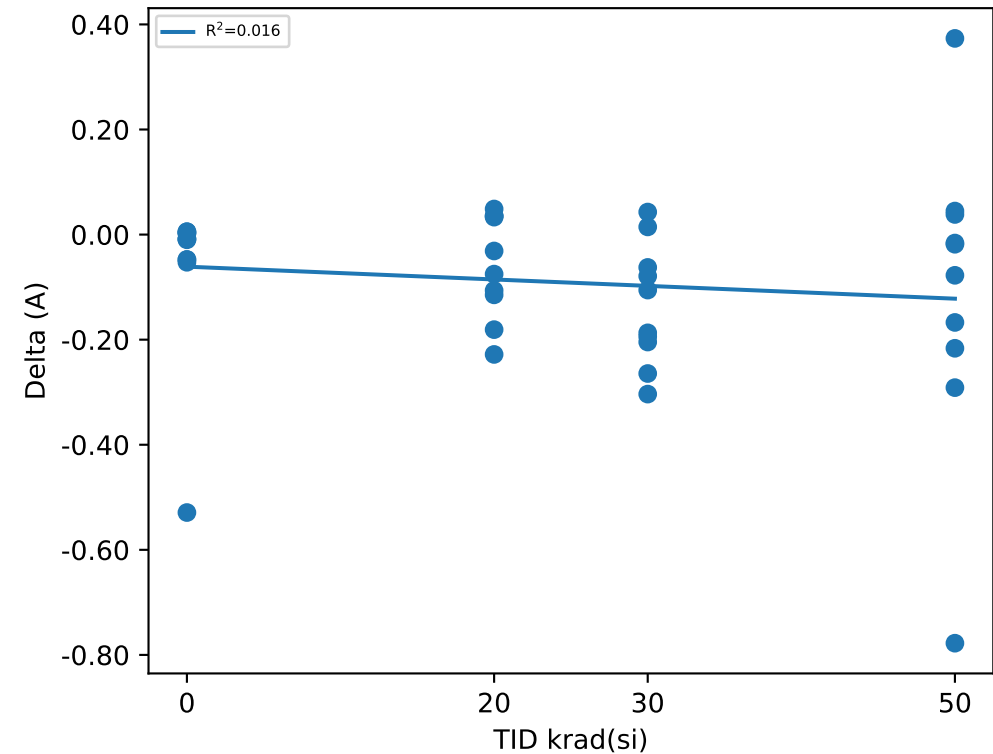
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.4763	5.6495	5.9161	0.17277	5.028	5.5664	5.9468	0.34865	-0.533	-0.08308	0.0511	0.25218
20	5.1457	5.6271	6.0068	0.26535	4.9829	5.5355	6.0033	0.32291	-0.3386	-0.09157	0.0508	0.12833
30	5.2443	5.5497	6.2635	0.35425	4.9627	5.4307	5.935	0.30398	-0.3285	-0.11899	0.081	0.14593
50	5.1492	5.5904	6.0288	0.25156	4.9521	5.4569	5.8287	0.31247	-0.7186	-0.1335	0.1514	0.24433

Device Test: 20.5 THRESHOLD|RISE/SW/4.5////@HIGHSIDE_CURR_LIM_9A_PLST

TID vs Result Stats



TID vs Post - Pre Exposure Delta



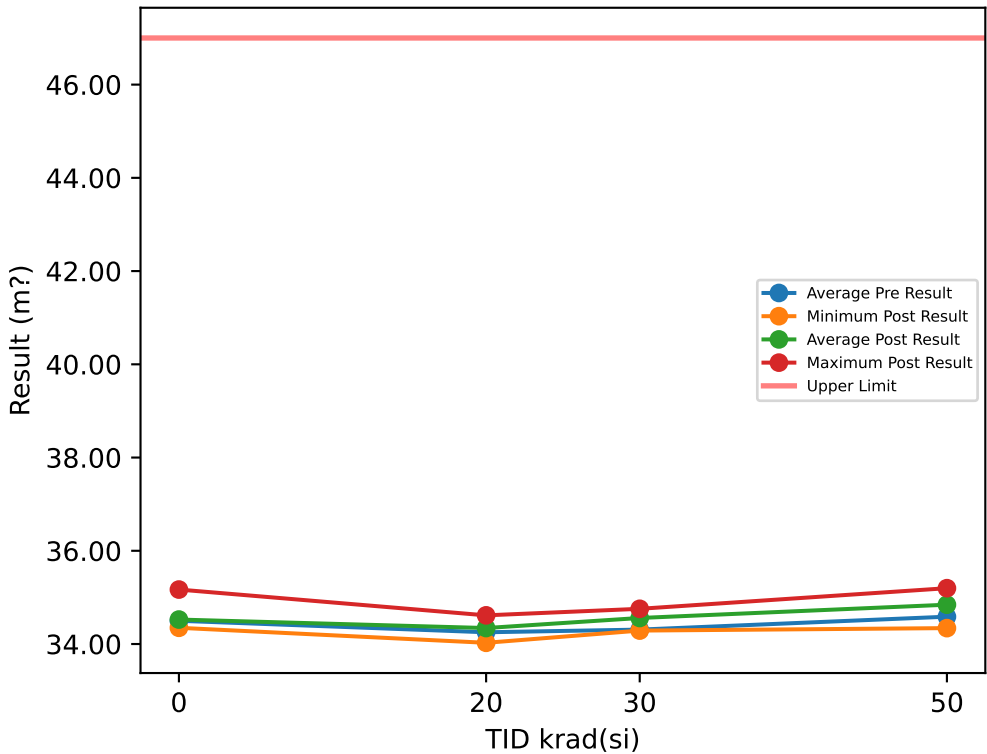
Test Results (Upper Limit = 11.7 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	8.9802	8.4512	-0.529
516	0	CORRELATION	9.1156	9.0629	-0.0527
721	0	CORRELATION	8.9317	8.9218	-0.0099
723	0	CORRELATION	9.4232	9.4258	0.0026
729	0	CORRELATION	8.7615	8.714	-0.0475
990	20	Unbiased	8.945	8.7641	-0.1809
991	20	Unbiased	9.0018	8.7737	-0.2281
992	20	Unbiased	8.4863	8.38	-0.1063
993	20	Unbiased	9.1541	9.0394	-0.1147
994	20	Unbiased	8.2143	8.1391	-0.0752
995	20	Biased	9.4668	9.4356	-0.0312
996	20	Biased	8.7881	8.8368	0.0487
997	20	Biased	9.44	9.4753	0.0353
998	20	Biased	8.6548	8.688	0.0332
999	20	Biased	9.0316	9.0675	0.0359
1020	30	Unbiased	8.5371	8.4581	-0.079
1021	30	Unbiased	8.5453	8.5882	0.0429
1022	30	Unbiased	8.6083	8.5027	-0.1056
1023	30	Unbiased	9.129	9.1436	0.0146
1024	30	Unbiased	8.8409	8.7784	-0.0625
1025	30	Biased	8.5025	8.1989	-0.3036
1026	30	Biased	8.5496	8.3554	-0.1942
1027	30	Biased	9.5232	9.3187	-0.2045
1028	30	Biased	9.9165	9.6521	-0.2644
1029	30	Biased	8.7474	8.5604	-0.187
1030	50	Unbiased	9.0449	9.0897	0.0448
1031	50	Unbiased	8.7977	8.7816	-0.0161
1032	50	Unbiased	9.2966	9.2782	-0.0184
1033	50	Unbiased	8.9836	9.0219	0.0383
1034	50	Unbiased	8.9298	8.8523	-0.0775
1035	50	Biased-84Hr-Anneal	8.6648	8.3735	-0.2913
1036	50	Biased-84Hr-Anneal	8.5675	8.3511	-0.2164
1037	50	Biased-84Hr-Anneal	9.6439	9.4767	-0.1672
1038	50	Biased-84Hr-Anneal	8.2754	8.6488	0.3734
1039	50	Biased-84Hr-Anneal	8.9521	8.1744	-0.7777

Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.7615	9.0424	9.4232	0.24769	8.4512	8.9151	9.4258	0.36686	-0.529	-0.1273	0.0026	0.22581
20	8.2143	8.9183	9.4668	0.3969	8.1391	8.86	9.4753	0.41926	-0.2281	-0.05833	0.0487	0.098784
30	8.5025	8.89	9.9165	0.48571	8.1989	8.7556	9.6521	0.46673	-0.3036	-0.13433	0.0429	0.11522
50	8.2754	8.9156	9.6439	0.38098	8.1744	8.8048	9.4767	0.4243	-0.7777	-0.11081	0.3734	0.29649

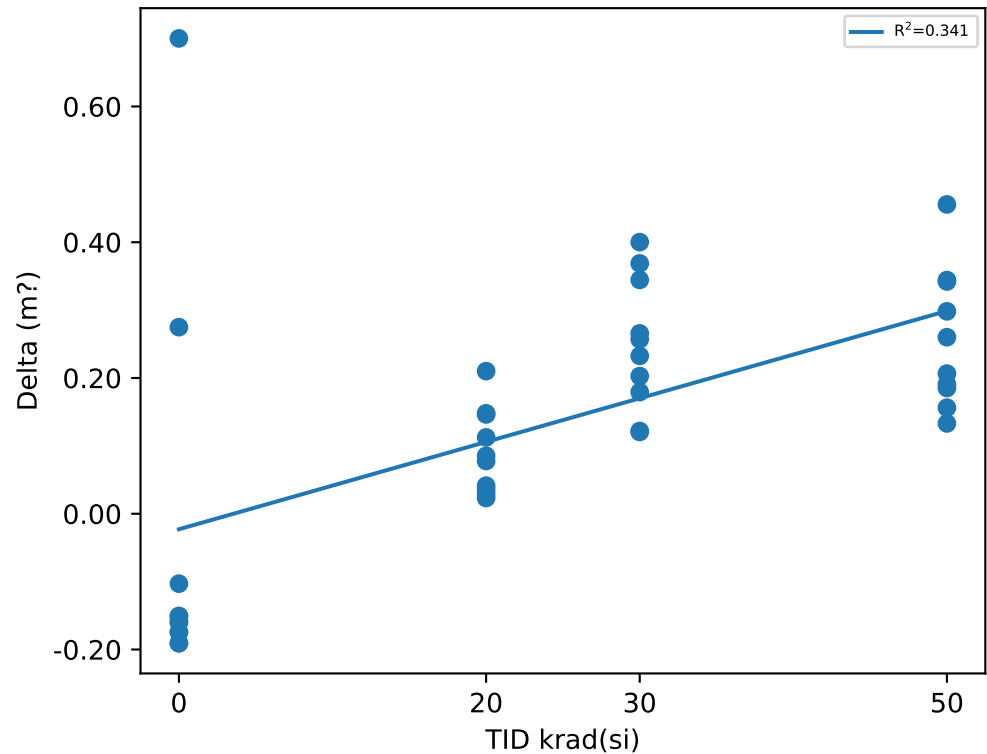
TID vs Result Stats



Test Results (Upper Limit = 47.0 (m?))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	34.468	35.168	0.7003
516	0	CORRELATION	34.321	34.596	0.2749
721	0	CORRELATION	34.451	34.348	-0.103
723	0	CORRELATION	34.682	34.532	-0.1507
729	0	CORRELATION	34.571	34.411	-0.1598
990	20	Unbiased	33.947	34.059	0.1125
991	20	Unbiased	34.315	34.4	0.0854
992	20	Unbiased	34.269	34.417	0.148
993	20	Unbiased	34.405	34.615	0.2101
994	20	Unbiased	34.261	34.407	0.1463
995	20	Biased	34.309	34.351	0.0414
996	20	Biased	33.997	34.026	0.0291
997	20	Biased	34.37	34.447	0.0777
998	20	Biased	34.22	34.243	0.0232
999	20	Biased	34.427	34.463	0.0359
1020	30	Unbiased	34.048	34.314	0.2657
1021	30	Unbiased	34.21	34.61	0.4002
1022	30	Unbiased	34.472	34.651	0.1792
1023	30	Unbiased	34.166	34.288	0.1219
1024	30	Unbiased	34.253	34.373	0.1205
1025	30	Biased	34.203	34.572	0.3688
1026	30	Biased	34.407	34.752	0.3445
1027	30	Biased	34.498	34.755	0.257
1028	30	Biased	34.496	34.729	0.2326
1029	30	Biased	34.338	34.541	0.2028
1030	50	Unbiased	34.382	34.573	0.1908
1031	50	Unbiased	34.185	34.341	0.1563
1032	50	Unbiased	34.391	34.576	0.1853
1033	50	Unbiased	34.554	34.761	0.2065
1034	50	Unbiased	34.539	34.672	0.1331
1035	50	Biased-84Hr-Anneal	34.67	35.012	0.3422
1036	50	Biased-84Hr-Anneal	34.747	35.045	0.2982
1037	50	Biased-84Hr-Anneal	34.802	35.146	0.3443
1038	50	Biased-84Hr-Anneal	34.85	35.111	0.2601
1039	50	Biased-84Hr-Anneal	34.742	35.198	0.4557

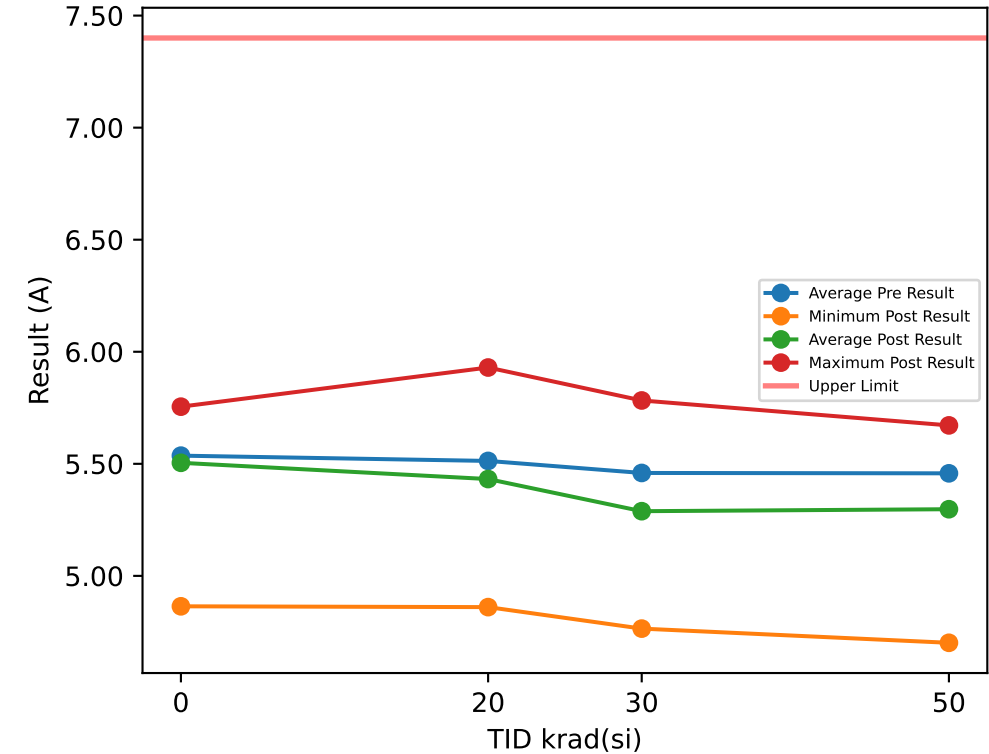
TID vs Post - Pre Exposure Delta



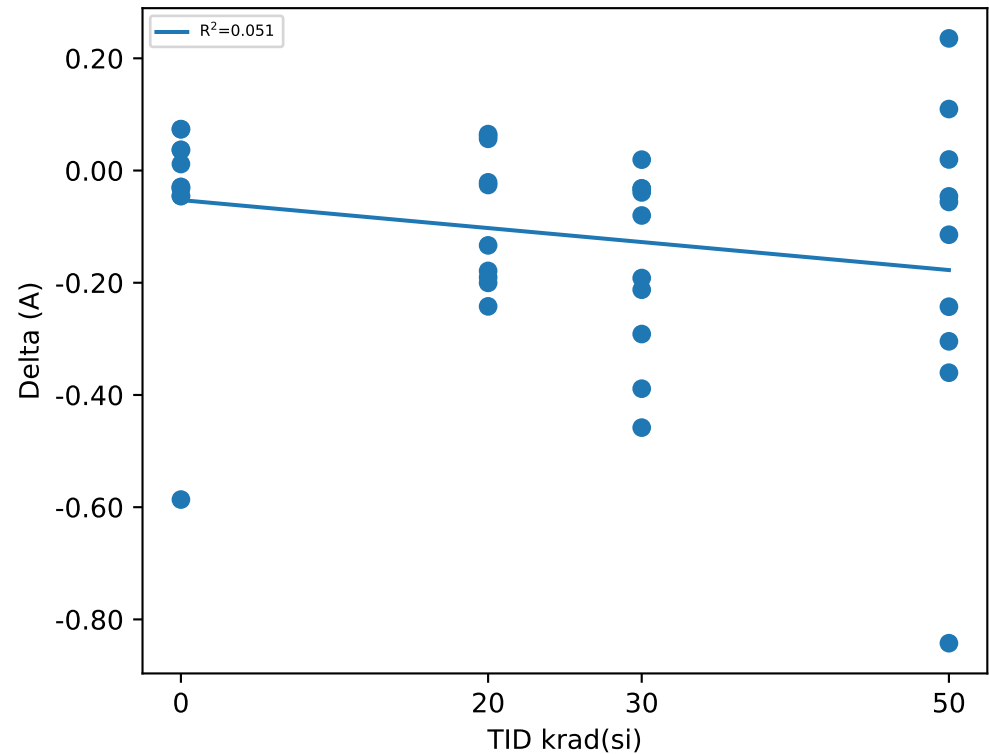
Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	34.321	34.499	34.682	0.13581	34.348	34.611	35.168	0.32636	-0.1598	0.11234	0.7003	0.37475
20	33.947	34.252	34.427	0.16153	34.026	34.343	34.615	0.18356	0.0232	0.09096	0.2101	0.062438
30	34.048	34.309	34.498	0.15655	34.288	34.558	34.755	0.17761	0.1205	0.24932	0.4002	0.098103
50	34.185	34.586	34.85	0.2154	34.341	34.843	35.198	0.29641	0.1331	0.25725	0.4557	0.102

TID vs Result Stats



TID vs Post - Pre Exposure Delta



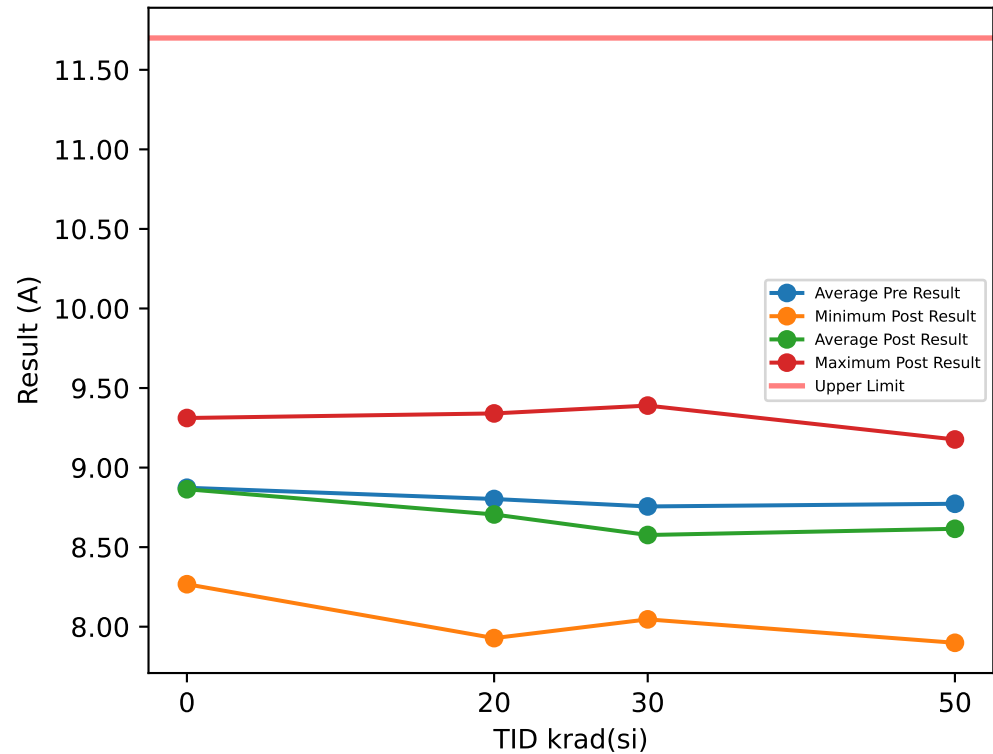
Test Results (Upper Limit = 7.4 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.4506	4.8642	-0.5864
516	0	CORRELATION	5.6399	5.6515	0.0116
721	0	CORRELATION	5.4571	5.4244	-0.0327
723	0	CORRELATION	5.7844	5.739	-0.0454
729	0	CORRELATION	5.3502	5.4239	0.0737
990	20	Unbiased	5.4915	5.3126	-0.1789
991	20	Unbiased	5.4832	5.2411	-0.2421
992	20	Unbiased	5.2754	5.0752	-0.2002
993	20	Unbiased	5.6225	5.4891	-0.1334
994	20	Unbiased	5.0509	4.8606	-0.1903
995	20	Biased	5.9555	5.9297	-0.0258
996	20	Biased	5.4106	5.4671	0.0565
997	20	Biased	5.8553	5.9202	0.0649
998	20	Biased	5.3626	5.4245	0.0619
999	20	Biased	5.6215	5.6005	-0.021
1020	30	Unbiased	5.2401	5.2077	-0.0324
1021	30	Unbiased	5.1981	5.2175	0.0194
1022	30	Unbiased	5.3096	5.2295	-0.0801
1023	30	Unbiased	5.6785	5.6395	-0.039
1024	30	Unbiased	5.3592	5.3275	-0.0317
1025	30	Biased	5.2229	4.7647	-0.4582
1026	30	Biased	5.1619	4.9703	-0.1916
1027	30	Biased	5.9086	5.6172	-0.2914
1028	30	Biased	6.1715	5.7827	-0.3888
1029	30	Biased	5.342	5.1296	-0.2124
1030	50	Unbiased	5.5534	5.663	0.1096
1031	50	Unbiased	5.4494	5.4033	-0.0461
1032	50	Unbiased	5.6302	5.5742	-0.056
1033	50	Unbiased	5.5169	5.5366	0.0197
1034	50	Unbiased	5.5227	5.4083	-0.1144
1035	50	Biased-84Hr-Anneal	5.1952	4.8908	-0.3044
1036	50	Biased-84Hr-Anneal	5.32	4.9597	-0.3603
1037	50	Biased-84Hr-Anneal	5.9142	5.6715	-0.2427
1038	50	Biased-84Hr-Anneal	4.9298	5.1653	0.2355
1039	50	Biased-84Hr-Anneal	5.5438	4.7014	-0.8424

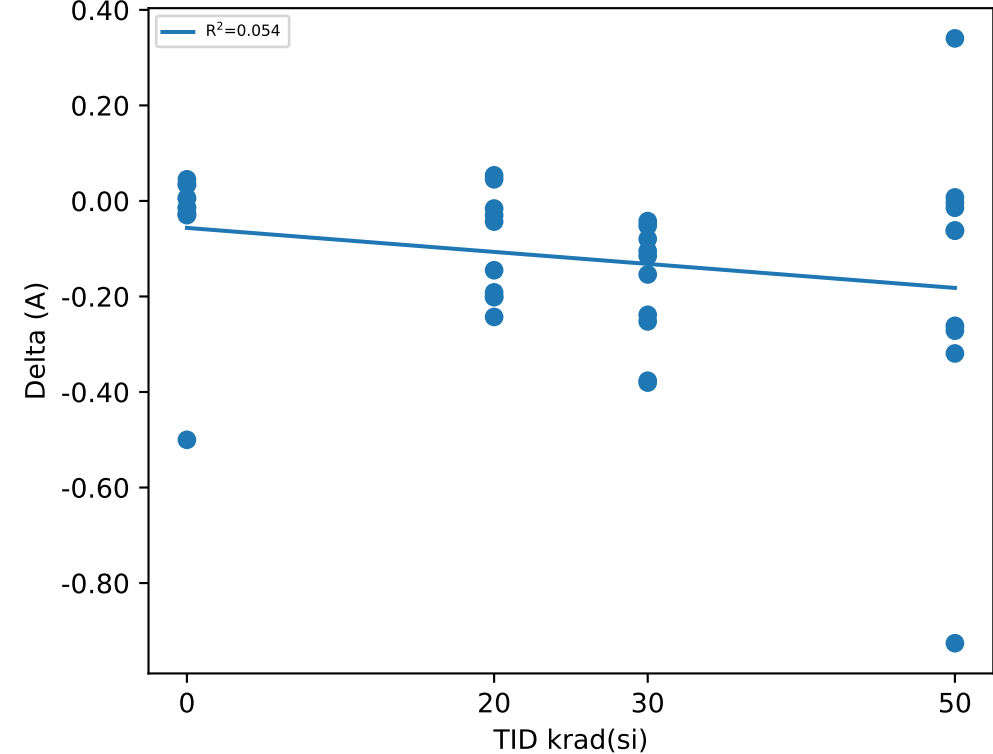
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.3502	5.5364	5.7844	0.17359	4.8642	5.4206	5.739	0.3407	-0.5864	-0.11584	0.0737	0.26715
20	5.0509	5.5129	5.9555	0.26691	4.8606	5.4321	5.9297	0.33723	-0.2421	-0.08084	0.0649	0.12097
30	5.1619	5.4592	6.1715	0.34383	4.7647	5.2886	5.7827	0.31498	-0.4582	-0.17062	0.0194	0.1657
50	4.9298	5.4576	5.9142	0.26438	4.7014	5.2974	5.6715	0.34689	-0.8424	-0.16015	0.2355	0.30198

TID vs Result Stats



TID vs Post - Pre Exposure Delta



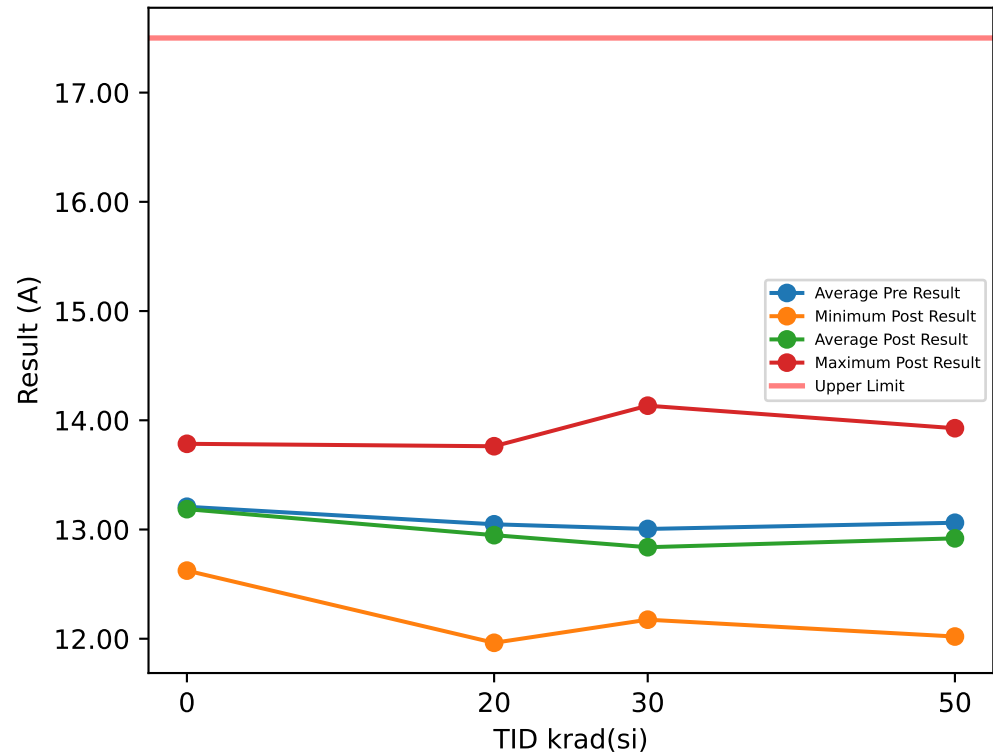
Test Results (Upper Limit = 11.7 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	8.767	8.2669	-0.5001
516	0	CORRELATION	8.9509	8.9255	-0.0254
721	0	CORRELATION	8.7745	8.8198	0.0453
723	0	CORRELATION	9.2774	9.3116	0.0342
729	0	CORRELATION	8.5967	8.6025	0.0058
990	20	Unbiased	8.8036	8.6122	-0.1914
991	20	Unbiased	8.8286	8.5857	-0.2429
992	20	Unbiased	8.407	8.2057	-0.2013
993	20	Unbiased	8.9956	8.8505	-0.1451
994	20	Unbiased	8.1292	7.9283	-0.2009
995	20	Biased	9.3379	9.2946	-0.0433
996	20	Biased	8.7261	8.7714	0.0453
997	20	Biased	9.3702	9.3404	-0.0298
998	20	Biased	8.5776	8.5617	-0.0159
999	20	Biased	8.8498	8.9034	0.0536
1020	30	Unbiased	8.4004	8.3208	-0.0796
1021	30	Unbiased	8.4193	8.3771	-0.0422
1022	30	Unbiased	8.4907	8.3859	-0.1048
1023	30	Unbiased	9.019	8.967	-0.052
1024	30	Unbiased	8.7115	8.5963	-0.1152
1025	30	Biased	8.4264	8.0461	-0.3803
1026	30	Biased	8.3606	8.1222	-0.2384
1027	30	Biased	9.4216	9.1694	-0.2522
1028	30	Biased	9.7661	9.3897	-0.3764
1029	30	Biased	8.5422	8.3883	-0.1539
1030	50	Unbiased	8.9363	8.9437	0.0074
1031	50	Unbiased	8.6719	8.6676	-0.0043
1032	50	Unbiased	9.1351	9.0731	-0.062
1033	50	Unbiased	8.8291	8.8148	-0.0143
1034	50	Unbiased	8.7619	8.6998	-0.0621
1035	50	Biased-84Hr-Anneal	8.4983	8.2368	-0.2615
1036	50	Biased-84Hr-Anneal	8.4715	8.1522	-0.3193
1037	50	Biased-84Hr-Anneal	9.4483	9.1767	-0.2716
1038	50	Biased-84Hr-Anneal	8.1489	8.4892	0.3403
1039	50	Biased-84Hr-Anneal	8.8247	7.8988	-0.9259

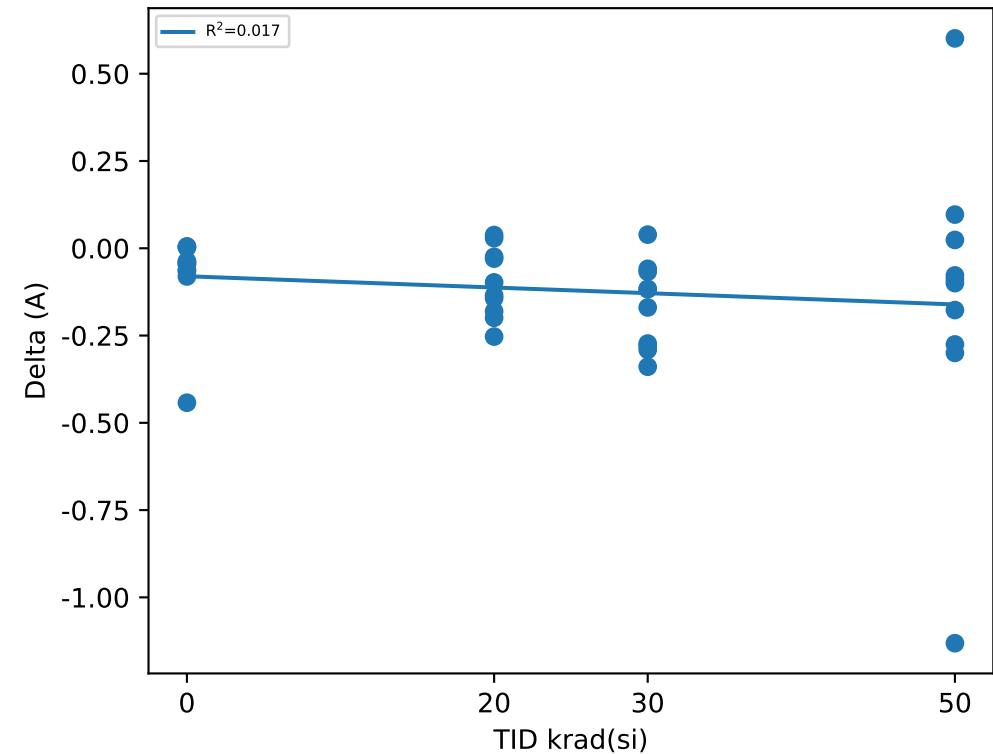
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.5967	8.8733	9.2774	0.25831	8.2669	8.7853	9.3116	0.3873	-0.5001	-0.08804	0.0453	0.23197
20	8.1292	8.8026	9.3702	0.38229	7.9283	8.7054	9.3404	0.43618	-0.2429	-0.09717	0.0536	0.1111
30	8.3606	8.7558	9.7661	0.48937	8.0461	8.5763	9.3897	0.45096	-0.3803	-0.1795	-0.0422	0.12618
50	8.1489	8.7726	9.4483	0.36299	7.8988	8.6153	9.1767	0.41757	-0.9259	-0.15733	0.3403	0.32959

TID vs Result Stats



TID vs Post - Pre Exposure Delta



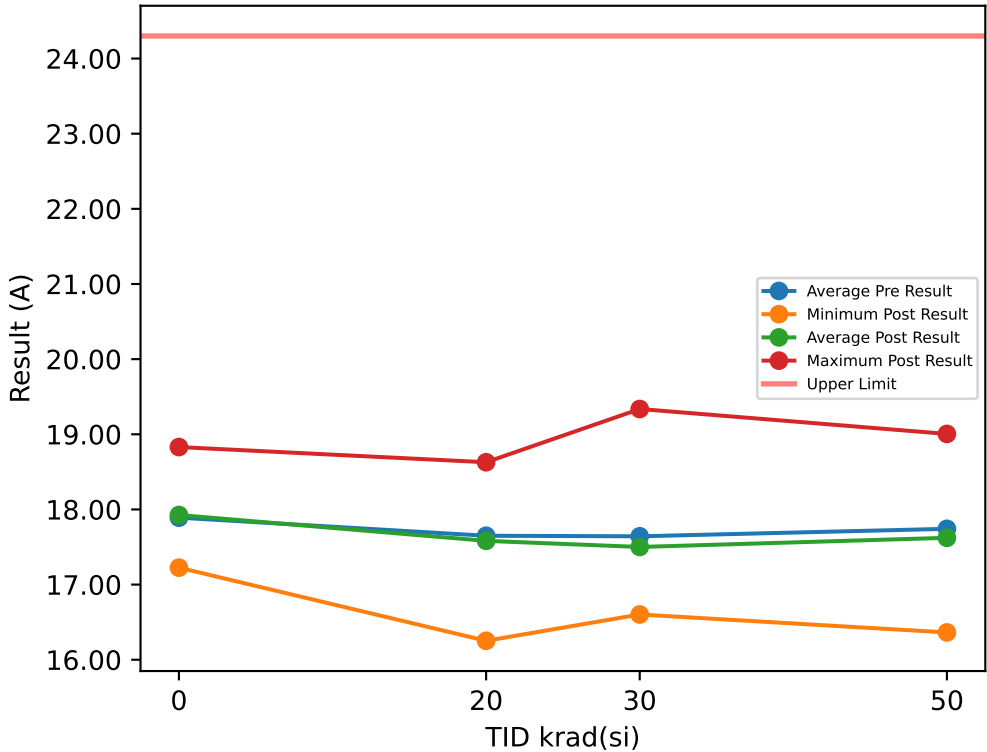
Test Results (Upper Limit = 17.5 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	13.066	12.624	-0.4424
516	0	CORRELATION	13.292	13.211	-0.0808
721	0	CORRELATION	13.08	13.082	0.0021
723	0	CORRELATION	13.78	13.785	0.0049
729	0	CORRELATION	12.824	12.786	-0.0377
990	20	Unbiased	13.118	12.919	-0.1991
991	20	Unbiased	13.153	12.9	-0.2529
992	20	Unbiased	12.366	12.222	-0.1433
993	20	Unbiased	13.512	13.332	-0.1805
994	20	Unbiased	12.098	11.963	-0.135
995	20	Biased	13.766	13.668	-0.0977
996	20	Biased	12.959	12.935	-0.0244
997	20	Biased	13.733	13.762	0.0289
998	20	Biased	12.598	12.636	0.038
999	20	Biased	13.174	13.144	-0.0297
1020	30	Unbiased	12.463	12.345	-0.1171
1021	30	Unbiased	12.517	12.556	0.0391
1022	30	Unbiased	12.55	12.433	-0.1165
1023	30	Unbiased	13.422	13.363	-0.0588
1024	30	Unbiased	12.91	12.842	-0.0673
1025	30	Biased	12.465	12.174	-0.2908
1026	30	Biased	12.569	12.289	-0.2794
1027	30	Biased	13.945	13.672	-0.2729
1028	30	Biased	14.473	14.134	-0.3393
1029	30	Biased	12.738	12.569	-0.1695
1030	50	Unbiased	13.198	13.295	0.0965
1031	50	Unbiased	12.878	12.789	-0.0892
1032	50	Unbiased	13.659	13.559	-0.0998
1033	50	Unbiased	13.185	13.209	0.0239
1034	50	Unbiased	12.921	12.843	-0.0778
1035	50	Biased-84Hr-Anneal	12.785	12.486	-0.2998
1036	50	Biased-84Hr-Anneal	12.557	12.282	-0.2755
1037	50	Biased-84Hr-Anneal	14.104	13.927	-0.177
1038	50	Biased-84Hr-Anneal	12.179	12.78	0.6012
1039	50	Biased-84Hr-Anneal	13.152	12.02	-1.1313

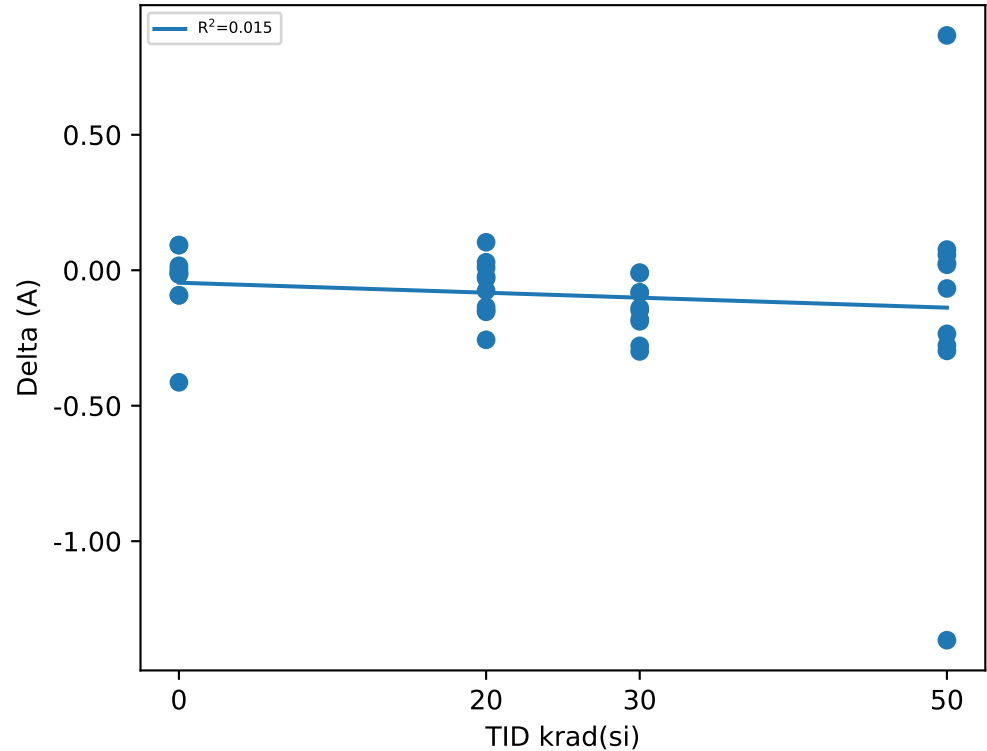
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.824	13.208	13.78	0.35981	12.624	13.098	13.785	0.44907	-0.4424	-0.11078	0.0049	0.18864
20	12.098	13.048	13.766	0.55895	11.963	12.948	13.762	0.57407	-0.2529	-0.09957	0.038	0.099498
30	12.463	13.005	14.473	0.70825	12.174	12.838	14.134	0.66253	-0.3393	-0.16725	0.0391	0.12384
50	12.179	13.062	14.104	0.54249	12.02	12.919	13.927	0.58646	-1.1313	-0.14288	0.6012	0.43052

TID vs Result Stats



TID vs Post - Pre Exposure Delta



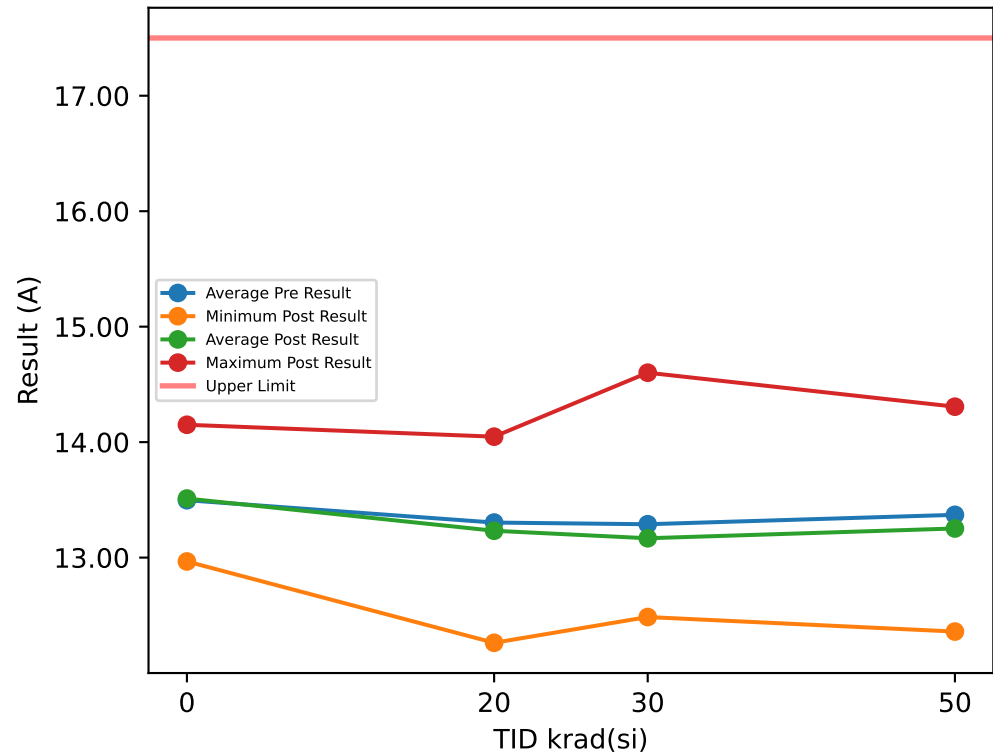
Test Results (Upper Limit = 24.3 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	17.7	17.286	-0.4136
516	0	CORRELATION	17.919	17.936	0.0165
721	0	CORRELATION	17.78	17.787	0.0069
723	0	CORRELATION	18.737	18.83	0.0928
729	0	CORRELATION	17.318	17.311	-0.0068
990	20	Unbiased	17.701	17.626	-0.0751
991	20	Unbiased	17.806	17.549	-0.2567
992	20	Unbiased	16.634	16.486	-0.1485
993	20	Unbiased	18.456	18.32	-0.1354
994	20	Unbiased	16.405	16.252	-0.1534
995	20	Biased	18.588	18.557	-0.0302
996	20	Biased	17.475	17.578	0.1033
997	20	Biased	18.618	18.628	0.0096
998	20	Biased	17.018	17.048	0.0295
999	20	Biased	17.797	17.773	-0.023
1020	30	Unbiased	16.89	16.742	-0.1482
1021	30	Unbiased	16.995	16.984	-0.0107
1022	30	Unbiased	16.996	16.915	-0.0811
1023	30	Unbiased	18.279	18.27	-0.0087
1024	30	Unbiased	17.518	17.435	-0.0826
1025	30	Biased	16.881	16.602	-0.2791
1026	30	Biased	17.091	16.902	-0.1885
1027	30	Biased	18.866	18.685	-0.1807
1028	30	Biased	19.636	19.336	-0.2996
1029	30	Biased	17.272	17.133	-0.1393
1030	50	Unbiased	17.949	18.026	0.0764
1031	50	Unbiased	17.368	17.388	0.0204
1032	50	Unbiased	18.668	18.601	-0.0673
1033	50	Unbiased	18.051	18.107	0.0564
1034	50	Unbiased	17.423	17.448	0.0257
1035	50	Biased-84Hr-Anneal	17.333	17.056	-0.277
1036	50	Biased-84Hr-Anneal	17.023	16.788	-0.2347
1037	50	Biased-84Hr-Anneal	19.303	19.005	-0.2977
1038	50	Biased-84Hr-Anneal	16.573	17.44	0.8668
1039	50	Biased-84Hr-Anneal	17.729	16.363	-1.3654

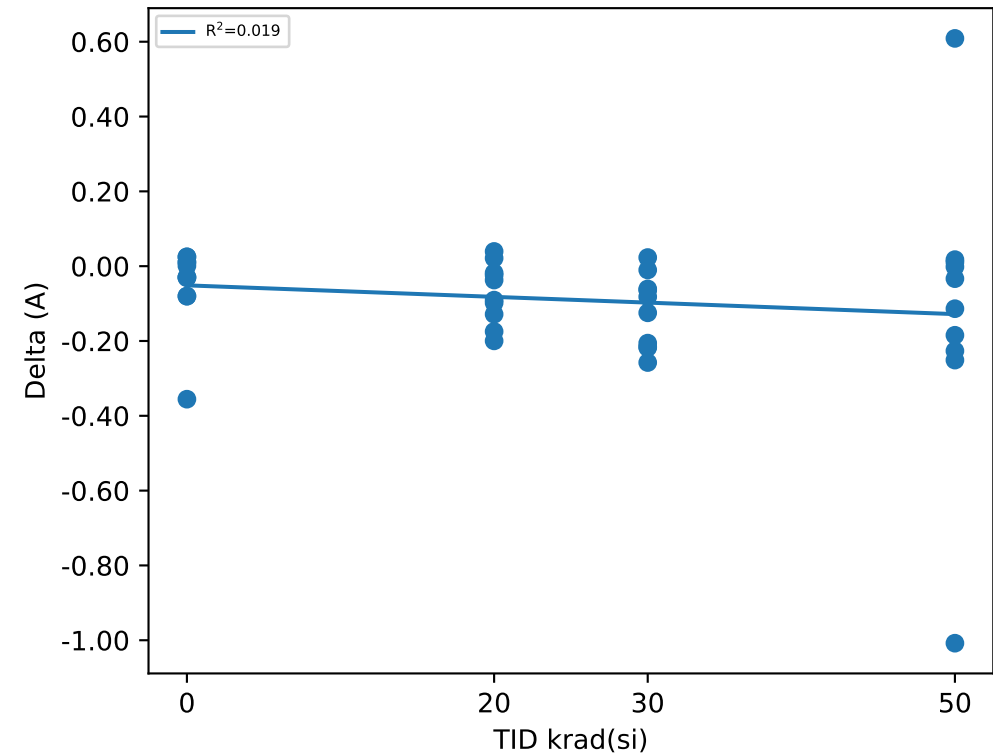
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	17.318	17.891	18.737	0.52313	17.286	17.83	18.83	0.62821	-0.4136	-0.06084	0.0928	0.20096
20	16.405	17.65	18.618	0.78347	16.252	17.582	18.628	0.8087	-0.2567	-0.06799	0.1033	0.10661
30	16.881	17.642	19.636	0.96111	16.602	17.501	19.336	0.93414	-0.2996	-0.14185	-0.0087	0.099769
50	16.573	17.742	19.303	0.79748	16.363	17.622	19.005	0.81563	-1.3654	-0.11964	0.8668	0.54849

TID vs Result Stats



TID vs Post - Pre Exposure Delta



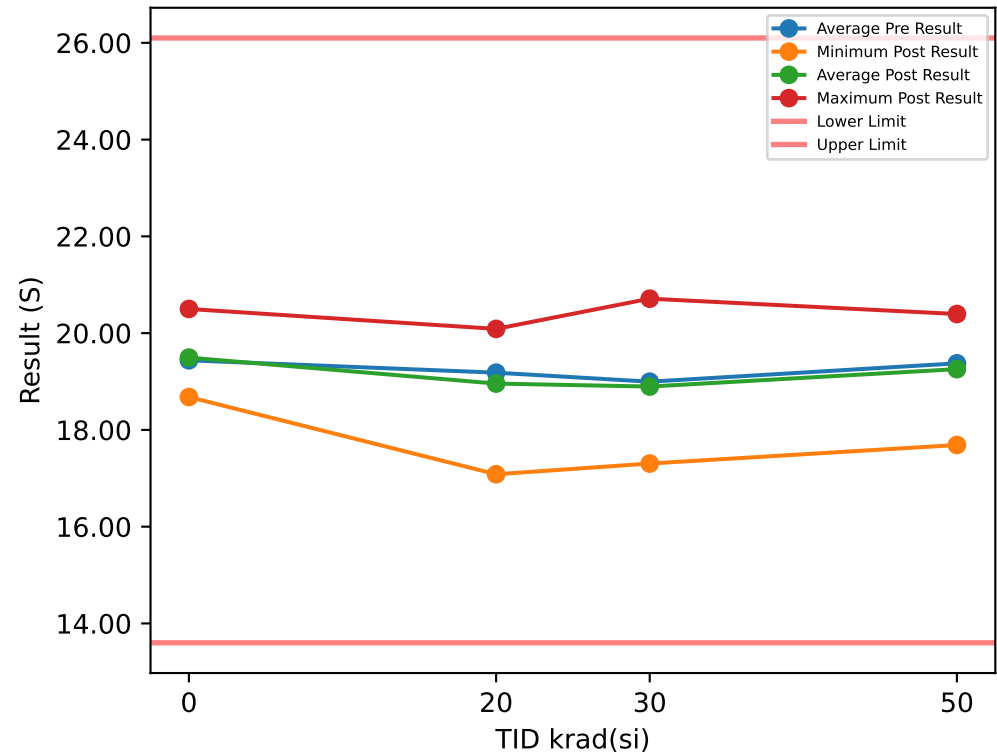
Test Results (Upper Limit = 17.5 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	13.322	12.966	-0.3556
516	0	CORRELATION	13.588	13.557	-0.031
721	0	CORRELATION	13.349	13.35	0.0009
723	0	CORRELATION	14.18	14.15	-0.0293
729	0	CORRELATION	13.045	13.07	0.0248
990	20	Unbiased	13.385	13.185	-0.1997
991	20	Unbiased	13.381	13.206	-0.1747
992	20	Unbiased	12.547	12.449	-0.0981
993	20	Unbiased	13.868	13.739	-0.1285
994	20	Unbiased	12.353	12.262	-0.0907
995	20	Biased	13.998	13.961	-0.0371
996	20	Biased	13.156	13.196	0.0394
997	20	Biased	14.026	14.047	0.0214
998	20	Biased	12.879	12.861	-0.0179
999	20	Biased	13.442	13.418	-0.0239
1020	30	Unbiased	12.679	12.555	-0.1247
1021	30	Unbiased	12.851	12.874	0.0231
1022	30	Unbiased	12.845	12.784	-0.0608
1023	30	Unbiased	13.649	13.638	-0.0102
1024	30	Unbiased	13.234	13.152	-0.0818
1025	30	Biased	12.743	12.485	-0.2576
1026	30	Biased	12.875	12.657	-0.2177
1027	30	Biased	14.252	14.037	-0.2153
1028	30	Biased	14.807	14.601	-0.2057
1029	30	Biased	12.956	12.891	-0.0642
1030	50	Unbiased	13.523	13.534	0.0109
1031	50	Unbiased	13.072	13.09	0.0175
1032	50	Unbiased	14.065	13.952	-0.1137
1033	50	Unbiased	13.558	13.556	-0.0017
1034	50	Unbiased	13.211	13.178	-0.0334
1035	50	Biased-84Hr-Anneal	13.107	12.856	-0.2511
1036	50	Biased-84Hr-Anneal	12.819	12.593	-0.2265
1037	50	Biased-84Hr-Anneal	14.492	14.307	-0.1847
1038	50	Biased-84Hr-Anneal	12.489	13.098	0.6089
1039	50	Biased-84Hr-Anneal	13.367	12.359	-1.0079

Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	13.045	13.497	14.18	0.42745	12.966	13.419	14.15	0.47045	-0.3556	-0.07804	0.0248	0.15687
20	12.353	13.303	14.026	0.58048	12.262	13.232	14.047	0.59478	-0.1997	-0.07098	0.0394	0.080732
30	12.679	13.289	14.807	0.72308	12.485	13.167	14.601	0.70269	-0.2576	-0.12149	0.0231	0.097477
50	12.489	13.37	14.492	0.58329	12.359	13.252	14.307	0.59797	-1.0079	-0.11817	0.6089	0.3958

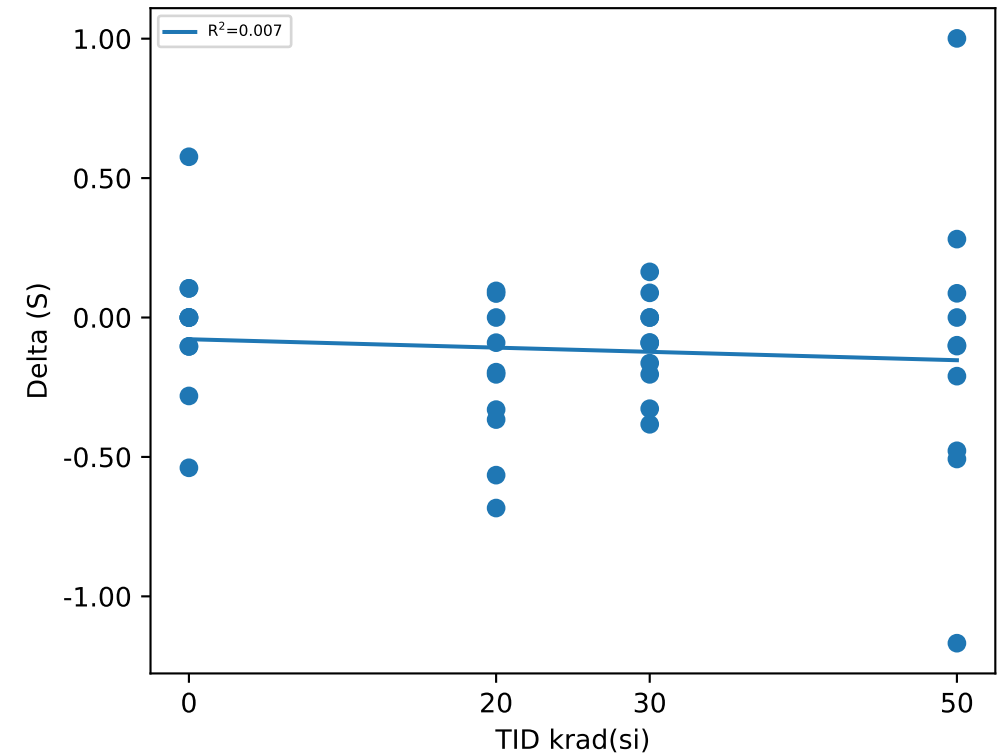
TID vs Result Stats



Test Results (Lower Limit = 13.6, Upper Limit = 26.1 (S))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	19.219	18.68	-0.539
516	0	CORRELATION	19.5	19.219	-0.2813
721	0	CORRELATION	19.312	19.888	0.5765
723	0	CORRELATION	20.395	20.292	-0.1036
729	0	CORRELATION	18.768	18.768	0
990	20	Unbiased	19.311	18.945	-0.366
991	20	Unbiased	19.692	19.127	-0.5653
992	20	Unbiased	18.337	18.007	-0.3303
993	20	Unbiased	20.292	20.088	-0.2039
994	20	Unbiased	17.767	17.083	-0.6833
995	20	Biased	19.888	19.692	-0.196
996	20	Biased	18.507	18.593	0.086
997	20	Biased	19.5	19.596	0.0955
998	20	Biased	19.036	18.945	-0.0902
999	20	Biased	19.5	19.5	0
1020	30	Unbiased	17.688	17.305	-0.383
1021	30	Unbiased	18.945	18.856	-0.0893
1022	30	Unbiased	18.007	18.171	0.1637
1023	30	Unbiased	19.219	19.127	-0.0919
1024	30	Unbiased	19.5	19.5	0
1025	30	Biased	18.337	18.337	0
1026	30	Biased	18.768	18.856	0.0885
1027	30	Biased	20.292	20.088	-0.2039
1028	30	Biased	21.04	20.712	-0.327
1029	30	Biased	18.17	18.007	-0.1636
1030	50	Unbiased	19.219	19.5	0.2812
1031	50	Unbiased	18.593	18.68	0.0868
1032	50	Unbiased	20.292	20.189	-0.1025
1033	50	Unbiased	19.988	19.888	-0.0994
1034	50	Unbiased	20.395	19.888	-0.5074
1035	50	Biased-84Hr-Anneal	19.79	19.312	-0.478
1036	50	Biased-84Hr-Anneal	18.253	18.253	0
1037	50	Biased-84Hr-Anneal	20.606	20.395	-0.2103
1038	50	Biased-84Hr-Anneal	17.767	18.768	1.001
1039	50	Biased-84Hr-Anneal	18.856	17.688	-1.168

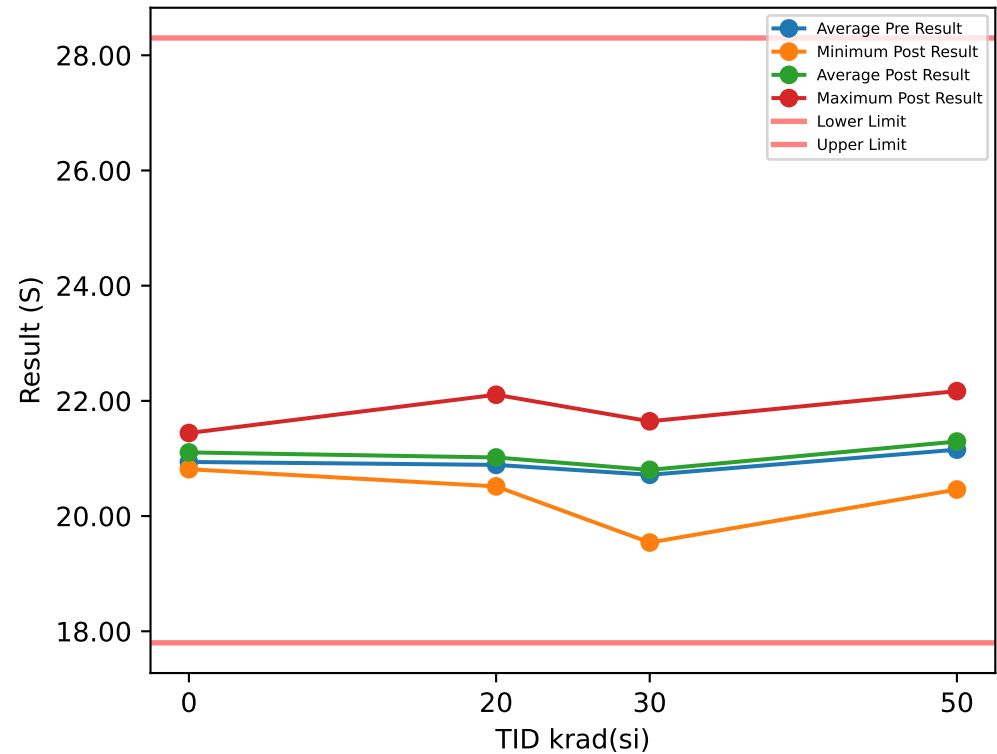
TID vs Post - Pre Exposure Delta



Test Statistics (S)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.768	19.439	20.395	0.59873	18.68	19.369	20.292	0.70361	-0.539	-0.06948	0.5765	0.41491
20	17.767	19.183	20.292	0.77486	17.083	18.958	20.088	0.88801	-0.6833	-0.22535	0.0955	0.2638
30	17.688	18.997	21.04	1.0551	17.305	18.896	20.712	1.0166	-0.383	-0.10065	0.1637	0.17375
50	17.767	19.376	20.606	0.98282	17.688	19.256	20.395	0.886	-1.168	-0.11966	1.001	0.56374

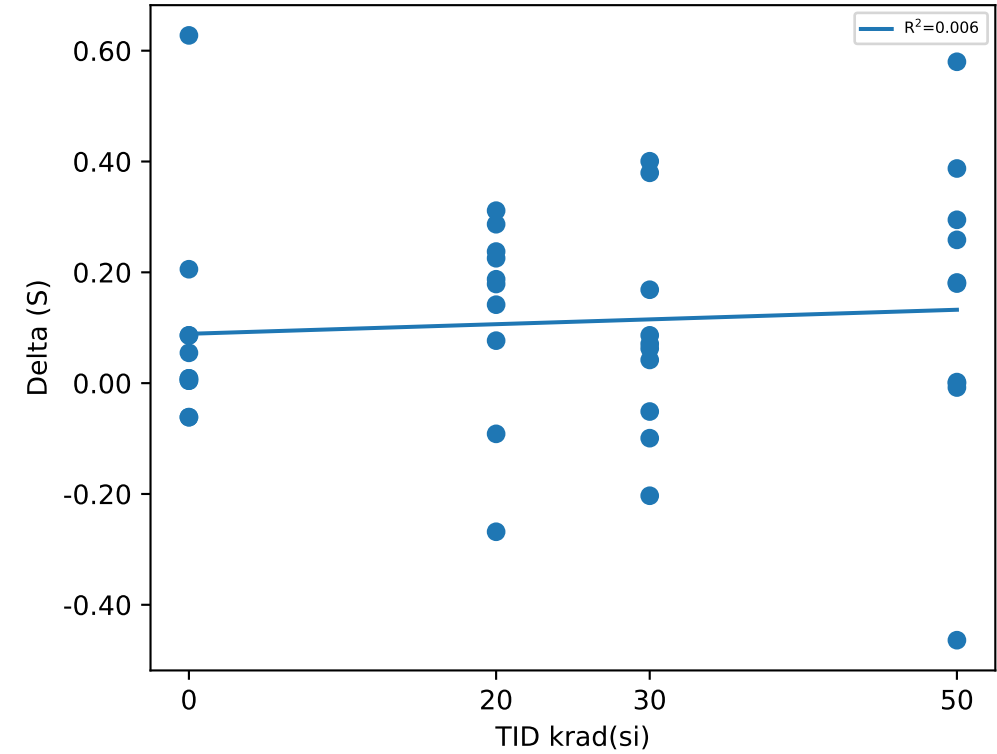
TID vs Result Stats



Test Results (Lower Limit = 17.8, Upper Limit = 28.3 (S))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	20.949	21.154	0.2056
516	0	CORRELATION	20.526	21.154	0.6276
721	0	CORRELATION	21.059	21.113	0.0547
723	0	CORRELATION	21.356	21.295	-0.0614
729	0	CORRELATION	20.809	20.818	0.0087
990	20	Unbiased	20.741	20.818	0.0767
991	20	Unbiased	20.799	21.111	0.3113
992	20	Unbiased	20.87	20.602	-0.2682
993	20	Unbiased	21.881	22.107	0.2254
994	20	Unbiased	20.278	20.516	0.2375
995	20	Biased	20.834	20.975	0.1416
996	20	Biased	20.335	20.523	0.1875
997	20	Biased	20.657	20.943	0.2868
998	20	Biased	21.345	21.254	-0.0915
999	20	Biased	21.149	21.328	0.1789
1020	30	Unbiased	19.744	19.541	-0.2032
1021	30	Unbiased	20.766	20.829	0.0626
1022	30	Unbiased	20.188	20.567	0.3796
1023	30	Unbiased	20.629	20.671	0.0419
1024	30	Unbiased	21.296	21.465	0.1686
1025	30	Biased	20.291	20.692	0.4005
1026	30	Biased	21.128	21.199	0.0709
1027	30	Biased	21.434	21.52	0.0863
1028	30	Biased	21.745	21.646	-0.0993
1029	30	Biased	19.945	19.894	-0.0512
1030	50	Unbiased	20.801	21.059	0.2586
1031	50	Unbiased	20.695	20.874	0.1797
1032	50	Unbiased	21.543	21.535	-0.0079
1033	50	Unbiased	21.61	21.792	0.1817
1034	50	Unbiased	21.782	22.169	0.3874
1035	50	Biased-84Hr-Anneal	21.934	21.934	0
1036	50	Biased-84Hr-Anneal	20.166	20.461	0.2948
1037	50	Biased-84Hr-Anneal	21.798	21.8	0.0019
1038	50	Biased-84Hr-Anneal	20.234	20.814	0.58
1039	50	Biased-84Hr-Anneal	20.968	20.504	-0.4639

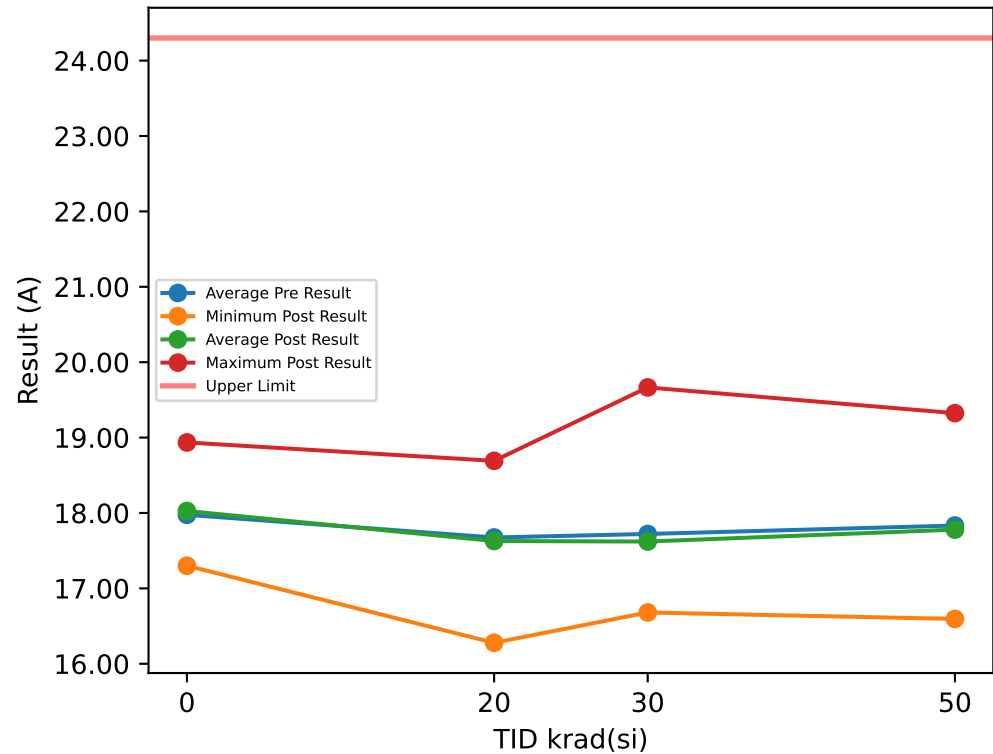
TID vs Post - Pre Exposure Delta



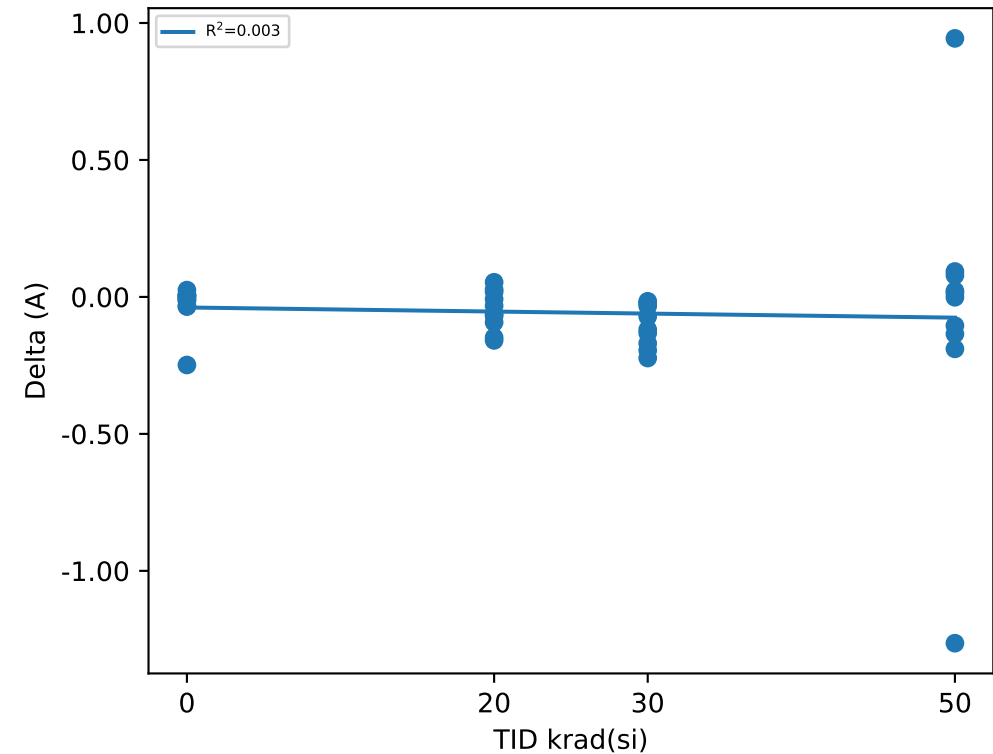
Test Statistics (S)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.526	20.94	21.356	0.30644	20.818	21.107	21.295	0.17552	-0.0614	0.16704	0.6276	0.27544
20	20.278	20.889	21.881	0.47457	20.516	21.018	22.107	0.47883	-0.2682	0.1286	0.3113	0.18086
30	19.744	20.717	21.745	0.67411	19.541	20.802	21.646	0.69328	-0.2032	0.08567	0.4005	0.19191
50	20.166	21.153	21.934	0.66418	20.461	21.294	22.169	0.62527	-0.4639	0.14123	0.58	0.28311

TID vs Result Stats



TID vs Post - Pre Exposure Delta



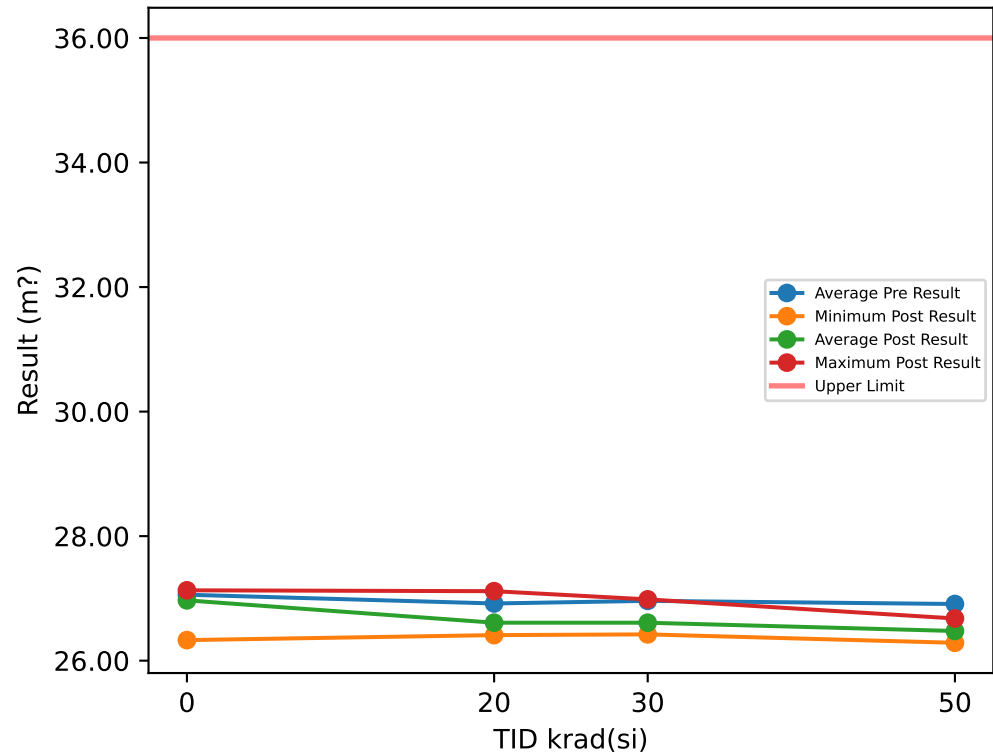
Test Results (Upper Limit = 24.3 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	17.755	17.506	-0.2485
516	0	CORRELATION	18.037	18.023	-0.0145
721	0	CORRELATION	17.847	17.872	0.0249
723	0	CORRELATION	18.931	18.935	0.0044
729	0	CORRELATION	17.308	17.314	0.0057
990	20	Unbiased	17.675	17.612	-0.0625
991	20	Unbiased	17.843	17.684	-0.1587
992	20	Unbiased	16.604	16.512	-0.0928
993	20	Unbiased	18.567	18.497	-0.0696
994	20	Unbiased	16.426	16.278	-0.148
995	20	Biased	18.592	18.56	-0.0324
996	20	Biased	17.448	17.501	0.0536
997	20	Biased	18.673	18.692	0.0189
998	20	Biased	17.093	17.085	-0.0081
999	20	Biased	17.831	17.858	0.0271
1020	30	Unbiased	16.811	16.777	-0.0335
1021	30	Unbiased	17.181	17.165	-0.0159
1022	30	Unbiased	17.125	16.993	-0.1319
1023	30	Unbiased	18.243	18.222	-0.0208
1024	30	Unbiased	17.595	17.572	-0.0234
1025	30	Biased	16.904	16.68	-0.2231
1026	30	Biased	17.219	17.024	-0.1949
1027	30	Biased	18.983	18.864	-0.119
1028	30	Biased	19.835	19.666	-0.1696
1029	30	Biased	17.32	17.249	-0.0713
1030	50	Unbiased	17.971	18.064	0.0929
1031	50	Unbiased	17.281	17.279	-0.0013
1032	50	Unbiased	18.824	18.846	0.0221
1033	50	Unbiased	18.199	18.277	0.0788
1034	50	Unbiased	17.525	17.539	0.0143
1035	50	Biased-84Hr-Anneal	17.462	17.357	-0.105
1036	50	Biased-84Hr-Anneal	17.07	16.881	-0.1896
1037	50	Biased-84Hr-Anneal	19.459	19.324	-0.1352
1038	50	Biased-84Hr-Anneal	16.686	17.629	0.9438
1039	50	Biased-84Hr-Anneal	17.859	16.595	-1.2641

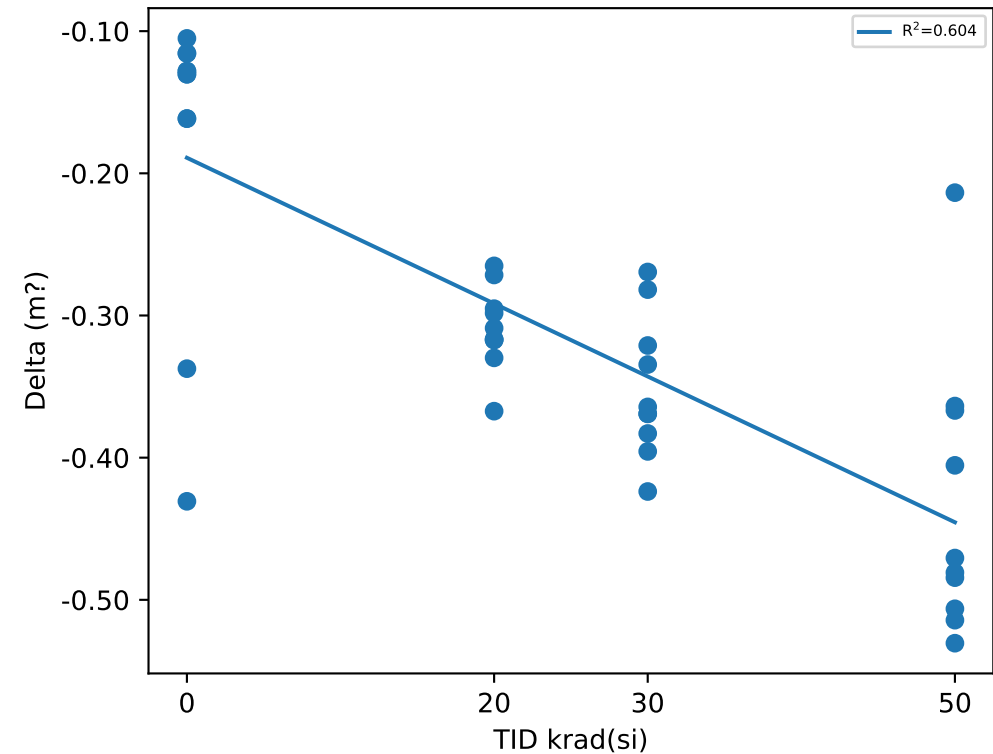
Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	17.308	17.976	18.931	0.59735	17.314	17.93	18.935	0.62889	-0.2485	-0.0456	0.0249	0.11428
20	16.426	17.675	18.673	0.80144	16.278	17.628	18.692	0.82938	-0.1587	-0.04725	0.0536	0.072423
30	16.811	17.722	19.835	0.99473	16.68	17.621	19.666	0.98776	-0.2231	-0.10034	-0.0159	0.07806
50	16.686	17.834	19.459	0.83103	16.595	17.779	19.324	0.85454	-1.2641	-0.05433	0.9438	0.53124

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (m?))

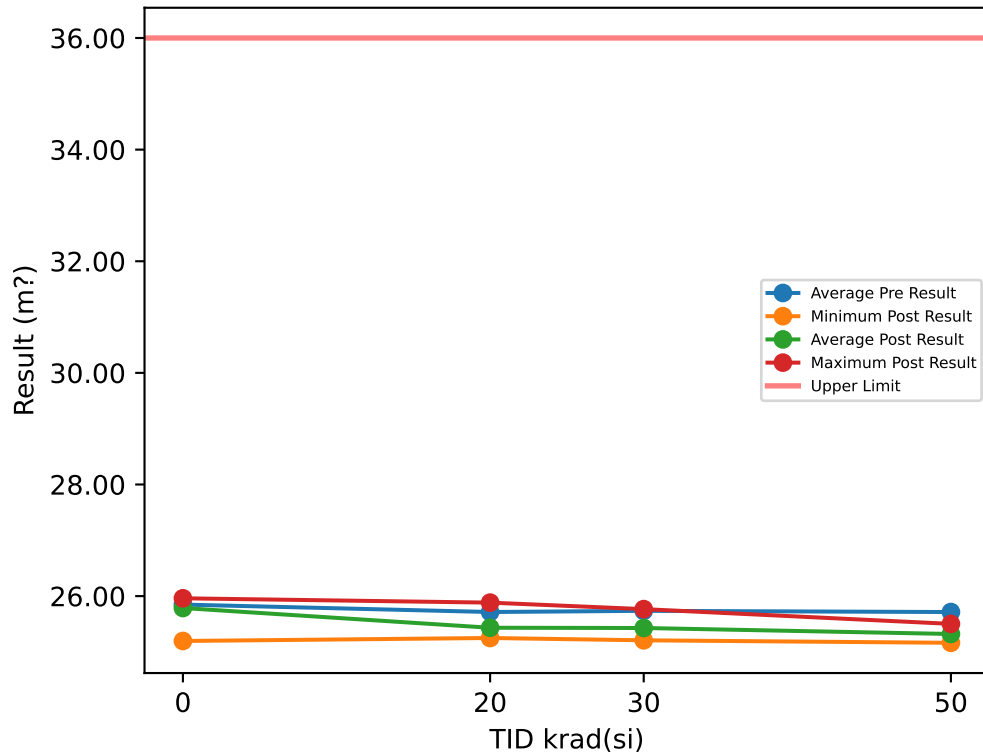
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	26.668	26.33	-0.3374
516	0	CORRELATION	27.104	26.674	-0.4307
721	0	CORRELATION	27.09	26.985	-0.1051
723	0	CORRELATION	27.26	27.13	-0.1303
729	0	CORRELATION	27.174	27.059	-0.1156
990	20	Unbiased	26.845	26.528	-0.3171
991	20	Unbiased	27.088	26.772	-0.3166
992	20	Unbiased	26.864	26.593	-0.2715
993	20	Unbiased	26.675	26.41	-0.2651
994	20	Unbiased	26.795	26.465	-0.3298
995	20	Biased	26.8	26.491	-0.3089
996	20	Biased	26.947	26.652	-0.2952
997	20	Biased	26.96	26.642	-0.3173
998	20	Biased	27.483	27.116	-0.3673
999	20	Biased	26.727	26.428	-0.2983
1020	30	Unbiased	26.707	26.438	-0.2694
1021	30	Unbiased	27.124	26.842	-0.2818
1022	30	Unbiased	27.353	26.984	-0.3691
1023	30	Unbiased	26.792	26.428	-0.3643
1024	30	Unbiased	26.951	26.527	-0.4238
1025	30	Biased	26.769	26.448	-0.3211
1026	30	Biased	27.069	26.734	-0.3345
1027	30	Biased	26.805	26.422	-0.383
1028	30	Biased	26.895	26.499	-0.3956
1029	30	Biased	27.14	26.771	-0.3692
1030	50	Unbiased	26.968	26.453	-0.5143
1031	50	Unbiased	27.045	26.561	-0.4844
1032	50	Unbiased	26.917	26.446	-0.4706
1033	50	Unbiased	26.872	26.366	-0.5063
1034	50	Unbiased	26.86	26.38	-0.4808
1035	50	Biased-84Hr-Anneal	26.858	26.491	-0.3668
1036	50	Biased-84Hr-Anneal	27.064	26.659	-0.4054
1037	50	Biased-84Hr-Anneal	27.041	26.678	-0.3637
1038	50	Biased-84Hr-Anneal	26.817	26.287	-0.5305
1039	50	Biased-84Hr-Anneal	26.659	26.445	-0.2136

Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.668	27.059	27.26	0.22913	26.33	26.835	27.13	0.33183	-0.4307	-0.22382	-0.1051	0.15021
20	26.675	26.918	27.483	0.23184	26.41	26.61	27.116	0.21079	-0.3673	-0.30871	-0.2651	0.029176
30	26.707	26.96	27.353	0.2062	26.422	26.609	26.984	0.20513	-0.4238	-0.35118	-0.2694	0.049173
50	26.659	26.91	27.064	0.12519	26.287	26.476	26.678	0.1252	-0.5305	-0.43364	-0.2136	0.0977

Device Test: 21.15 LEVEL|LOWSIDE/SW/12/12///@R_LOWSIDE_12V_25C_PLST

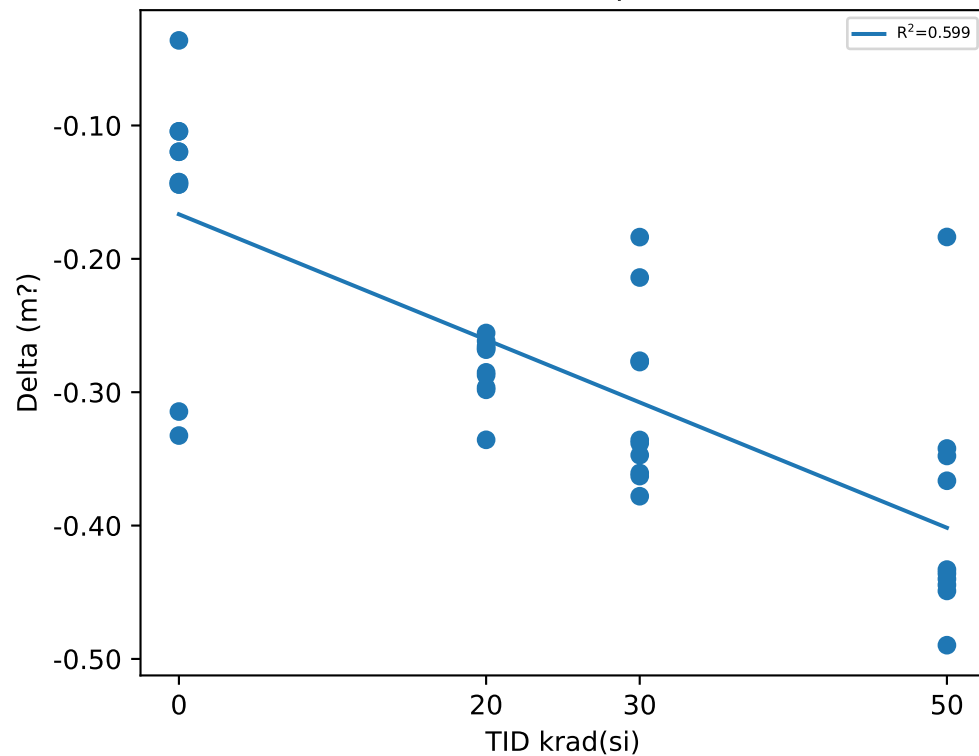
TID vs Result Stats



Test Results (Upper Limit = 36.0 (m?))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	25.511	25.196	-0.3145
516	0	CORRELATION	25.852	25.52	-0.3325
721	0	CORRELATION	25.841	25.805	-0.0362
723	0	CORRELATION	26.066	25.961	-0.1044
729	0	CORRELATION	25.974	25.83	-0.1442
990	20	Unbiased	25.636	25.34	-0.2964
991	20	Unbiased	25.898	25.631	-0.2671
992	20	Unbiased	25.655	25.399	-0.2556
993	20	Unbiased	25.511	25.25	-0.2615
994	20	Unbiased	25.614	25.316	-0.2982
995	20	Biased	25.568	25.3	-0.2681
996	20	Biased	25.739	25.454	-0.2851
997	20	Biased	25.756	25.469	-0.2872
998	20	Biased	26.219	25.883	-0.3357
999	20	Biased	25.557	25.292	-0.2654
1020	30	Unbiased	25.422	25.208	-0.214
1021	30	Unbiased	25.828	25.644	-0.1837
1022	30	Unbiased	26.13	25.767	-0.3629
1023	30	Unbiased	25.598	25.251	-0.3472
1024	30	Unbiased	25.728	25.35	-0.378
1025	30	Biased	25.581	25.303	-0.2774
1026	30	Biased	25.81	25.534	-0.2764
1027	30	Biased	25.644	25.283	-0.3606
1028	30	Biased	25.674	25.338	-0.3358
1029	30	Biased	25.949	25.611	-0.3382
1030	50	Unbiased	25.744	25.299	-0.4445
1031	50	Unbiased	25.819	25.386	-0.433
1032	50	Unbiased	25.696	25.26	-0.4359
1033	50	Unbiased	25.666	25.217	-0.449
1034	50	Unbiased	25.682	25.242	-0.44
1035	50	Biased-84Hr-Anneal	25.686	25.343	-0.3422
1036	50	Biased-84Hr-Anneal	25.861	25.495	-0.3664
1037	50	Biased-84Hr-Anneal	25.851	25.503	-0.3478
1038	50	Biased-84Hr-Anneal	25.653	25.164	-0.4897
1039	50	Biased-84Hr-Anneal	25.492	25.308	-0.1836

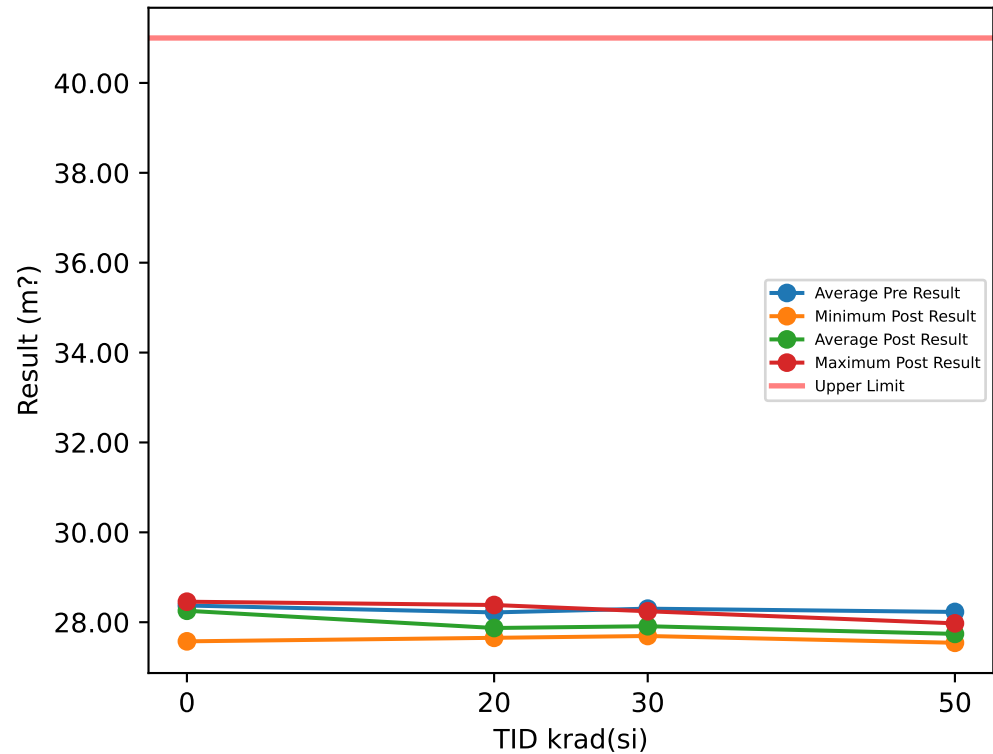
TID vs Post - Pre Exposure Delta



Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	25.511	25.849	26.066	0.2103	25.196	25.662	25.961	0.30625	-0.3325	-0.18636	-0.0362	0.13117
20	25.511	25.715	26.219	0.21025	25.25	25.433	25.883	0.19393	-0.3357	-0.28203	-0.2556	0.024033
30	25.422	25.736	26.13	0.20231	25.208	25.429	25.767	0.19337	-0.378	-0.30742	-0.1837	0.066767
50	25.492	25.715	25.861	0.11034	25.164	25.322	25.503	0.11257	-0.4897	-0.39321	-0.1836	0.088171

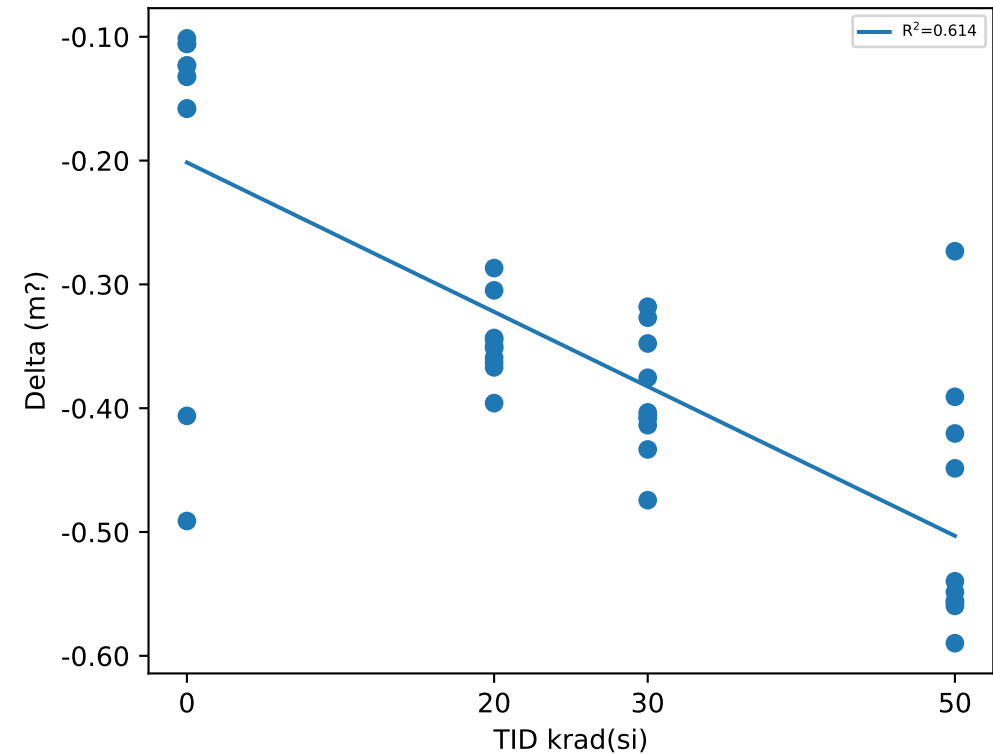
TID vs Result Stats



Test Results (Upper Limit = 41.0 (m?))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	27.981	27.575	-0.4062
516	0	CORRELATION	28.43	27.939	-0.4911
721	0	CORRELATION	28.453	28.352	-0.1013
723	0	CORRELATION	28.58	28.457	-0.1232
729	0	CORRELATION	28.414	28.309	-0.1057
990	20	Unbiased	28.103	27.752	-0.3514
991	20	Unbiased	28.353	27.986	-0.367
992	20	Unbiased	28.259	27.954	-0.3048
993	20	Unbiased	27.956	27.669	-0.2868
994	20	Unbiased	28.085	27.722	-0.3632
995	20	Biased	28.118	27.774	-0.3446
996	20	Biased	28.266	27.916	-0.3501
997	20	Biased	28.265	27.906	-0.3592
998	20	Biased	28.779	28.383	-0.3959
999	20	Biased	27.996	27.653	-0.3433
1020	30	Unbiased	28.018	27.701	-0.318
1021	30	Unbiased	28.532	28.205	-0.3269
1022	30	Unbiased	28.647	28.244	-0.4034
1023	30	Unbiased	28.102	27.693	-0.4083
1024	30	Unbiased	28.368	27.894	-0.4743
1025	30	Biased	28.119	27.771	-0.3477
1026	30	Biased	28.408	28.032	-0.3754
1027	30	Biased	28.151	27.738	-0.4137
1028	30	Biased	28.197	27.763	-0.4333
1029	30	Biased	28.474	28.067	-0.4067
1030	50	Unbiased	28.316	27.726	-0.5898
1031	50	Unbiased	28.421	27.861	-0.5597
1032	50	Unbiased	28.337	27.782	-0.5556
1033	50	Unbiased	28.137	27.58	-0.557
1034	50	Unbiased	28.082	27.542	-0.5398
1035	50	Biased-84Hr-Anneal	28.162	27.771	-0.3908
1036	50	Biased-84Hr-Anneal	28.423	27.975	-0.4486
1037	50	Biased-84Hr-Anneal	28.339	27.918	-0.4204
1038	50	Biased-84Hr-Anneal	28.108	27.56	-0.5485
1039	50	Biased-84Hr-Anneal	27.959	27.686	-0.2732

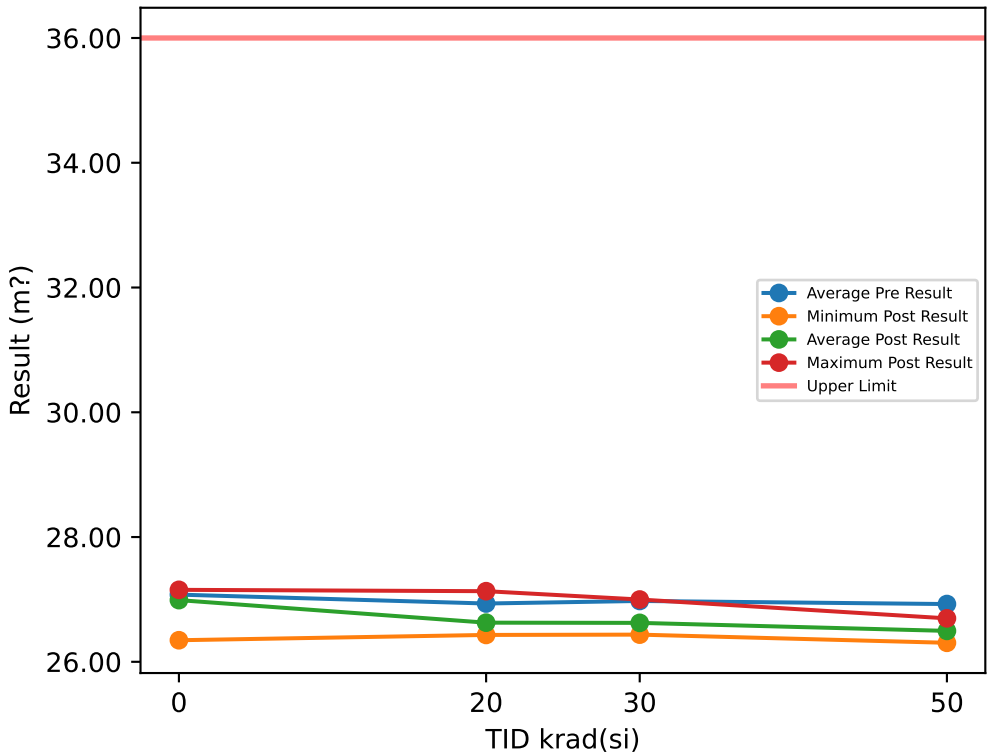
TID vs Post - Pre Exposure Delta



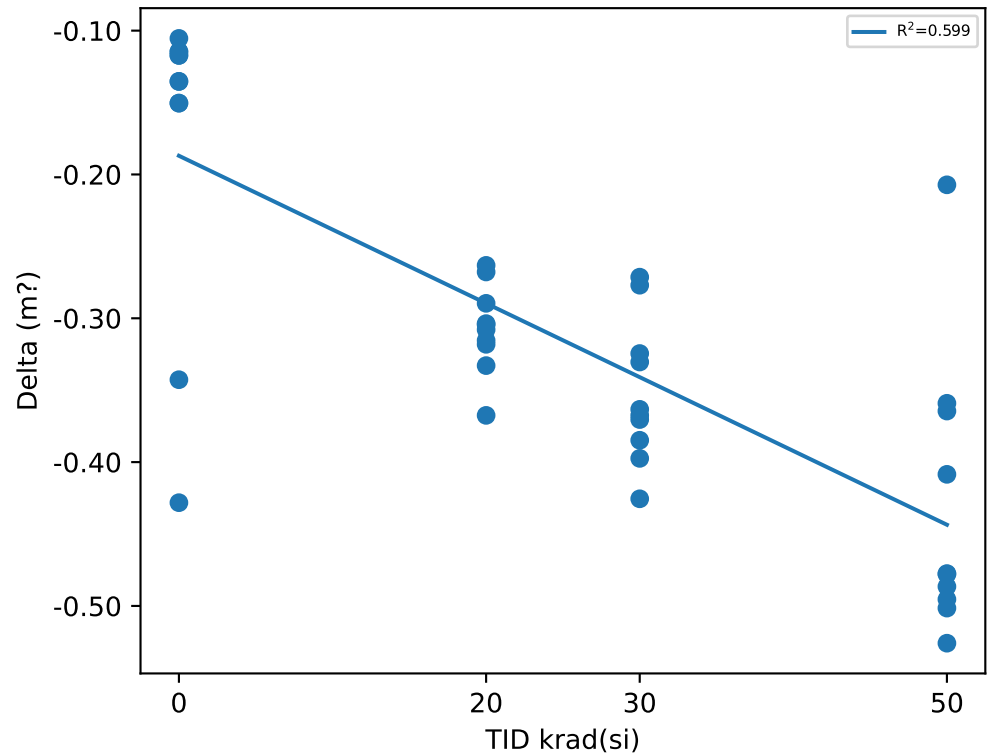
Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	27.981	28.372	28.58	0.22808	27.575	28.126	28.457	0.36505	-0.4911	-0.2455	-0.1013	0.18804
20	27.956	28.218	28.779	0.23522	27.653	27.871	28.383	0.21601	-0.3959	-0.34663	-0.2868	0.03101
30	28.018	28.302	28.647	0.21211	27.693	27.911	28.244	0.21075	-0.4743	-0.39077	-0.318	0.048875
50	27.959	28.229	28.423	0.15909	27.542	27.74	27.975	0.15076	-0.5898	-0.48834	-0.2732	0.10159

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (m?))

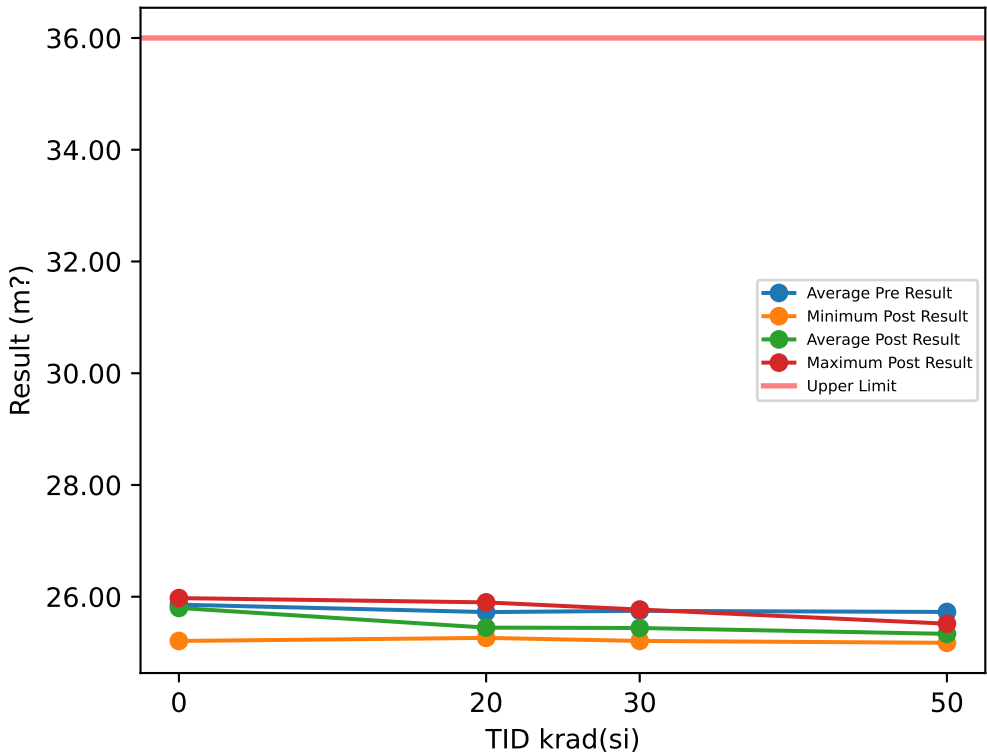
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	26.688	26.346	-0.3427
516	0	CORRELATION	27.123	26.695	-0.4282
721	0	CORRELATION	27.106	27	-0.1054
723	0	CORRELATION	27.271	27.154	-0.1172
729	0	CORRELATION	27.197	27.082	-0.1146
990	20	Unbiased	26.853	26.549	-0.3037
991	20	Unbiased	27.098	26.783	-0.3154
992	20	Unbiased	26.874	26.606	-0.2678
993	20	Unbiased	26.694	26.431	-0.2632
994	20	Unbiased	26.813	26.48	-0.3329
995	20	Biased	26.82	26.512	-0.3079
996	20	Biased	26.962	26.672	-0.2896
997	20	Biased	26.985	26.667	-0.3181
998	20	Biased	27.5	27.132	-0.3675
999	20	Biased	26.746	26.442	-0.3044
1020	30	Unbiased	26.728	26.451	-0.277
1021	30	Unbiased	27.134	26.863	-0.2714
1022	30	Unbiased	27.366	26.999	-0.3675
1023	30	Unbiased	26.803	26.44	-0.3633
1024	30	Unbiased	26.965	26.54	-0.4255
1025	30	Biased	26.782	26.457	-0.3245
1026	30	Biased	27.086	26.756	-0.3304
1027	30	Biased	26.82	26.436	-0.3848
1028	30	Biased	26.909	26.512	-0.3974
1029	30	Biased	27.158	26.788	-0.3704
1030	50	Unbiased	26.976	26.474	-0.5015
1031	50	Unbiased	27.058	26.581	-0.4775
1032	50	Unbiased	26.94	26.462	-0.4779
1033	50	Unbiased	26.883	26.388	-0.4954
1034	50	Unbiased	26.881	26.394	-0.4865
1035	50	Biased-84Hr-Anneal	26.878	26.514	-0.3645
1036	50	Biased-84Hr-Anneal	27.083	26.674	-0.4085
1037	50	Biased-84Hr-Anneal	27.056	26.697	-0.3591
1038	50	Biased-84Hr-Anneal	26.831	26.305	-0.5259
1039	50	Biased-84Hr-Anneal	26.674	26.467	-0.2072

Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.688	27.077	27.271	0.22692	26.346	26.855	27.154	0.33427	-0.4282	-0.22162	-0.1054	0.15264
20	26.694	26.935	27.5	0.23116	26.431	26.627	27.132	0.21004	-0.3675	-0.30705	-0.2632	0.03037
30	26.728	26.975	27.366	0.20561	26.436	26.624	26.999	0.20773	-0.4255	-0.35122	-0.2714	0.050093
50	26.674	26.926	27.083	0.12484	26.305	26.496	26.697	0.12496	-0.5259	-0.4304	-0.2072	0.097608

Device Test: 21.21 LEVEL|LOWSIDE/SW/14/12///@R_LOWSIDE_14V_25C_PLST

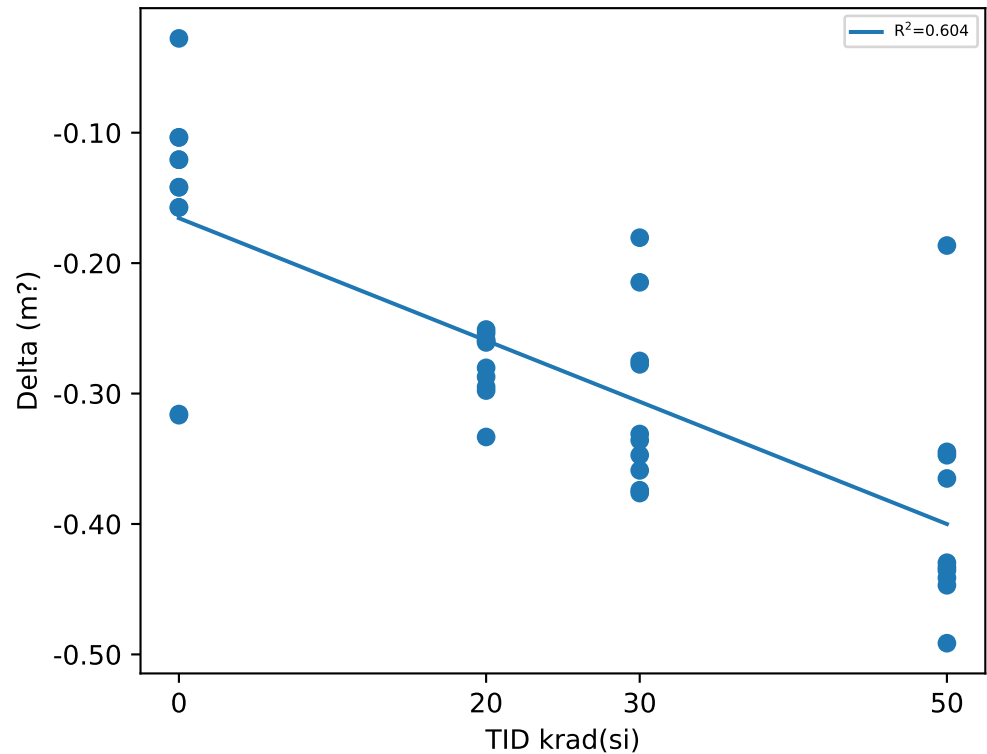
TID vs Result Stats



Test Results (Upper Limit = 36.0 (m?))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	25.524	25.208	-0.3157
516	0	CORRELATION	25.852	25.535	-0.3166
721	0	CORRELATION	25.847	25.82	-0.0277
723	0	CORRELATION	26.079	25.976	-0.1036
729	0	CORRELATION	25.989	25.832	-0.1573
990	20	Unbiased	25.648	25.353	-0.2948
991	20	Unbiased	25.905	25.645	-0.26
992	20	Unbiased	25.665	25.414	-0.2509
993	20	Unbiased	25.524	25.263	-0.2608
994	20	Unbiased	25.625	25.328	-0.2977
995	20	Biased	25.572	25.313	-0.2586
996	20	Biased	25.749	25.468	-0.2803
997	20	Biased	25.769	25.482	-0.2872
998	20	Biased	26.232	25.899	-0.3333
999	20	Biased	25.561	25.307	-0.2537
1020	30	Unbiased	25.424	25.209	-0.2147
1021	30	Unbiased	25.838	25.657	-0.1805
1022	30	Unbiased	26.145	25.77	-0.3741
1023	30	Unbiased	25.612	25.265	-0.3472
1024	30	Unbiased	25.74	25.364	-0.3763
1025	30	Biased	25.595	25.317	-0.2776
1026	30	Biased	25.821	25.546	-0.275
1027	30	Biased	25.657	25.298	-0.3589
1028	30	Biased	25.683	25.352	-0.331
1029	30	Biased	25.96	25.624	-0.3358
1030	50	Unbiased	25.753	25.311	-0.4413
1031	50	Unbiased	25.829	25.399	-0.4297
1032	50	Unbiased	25.709	25.274	-0.4355
1033	50	Unbiased	25.679	25.232	-0.447
1034	50	Unbiased	25.689	25.256	-0.4332
1035	50	Biased-84Hr-Anneal	25.701	25.356	-0.3447
1036	50	Biased-84Hr-Anneal	25.874	25.509	-0.3651
1037	50	Biased-84Hr-Anneal	25.865	25.517	-0.3473
1038	50	Biased-84Hr-Anneal	25.667	25.175	-0.4914
1039	50	Biased-84Hr-Anneal	25.508	25.322	-0.1865

TID vs Post - Pre Exposure Delta

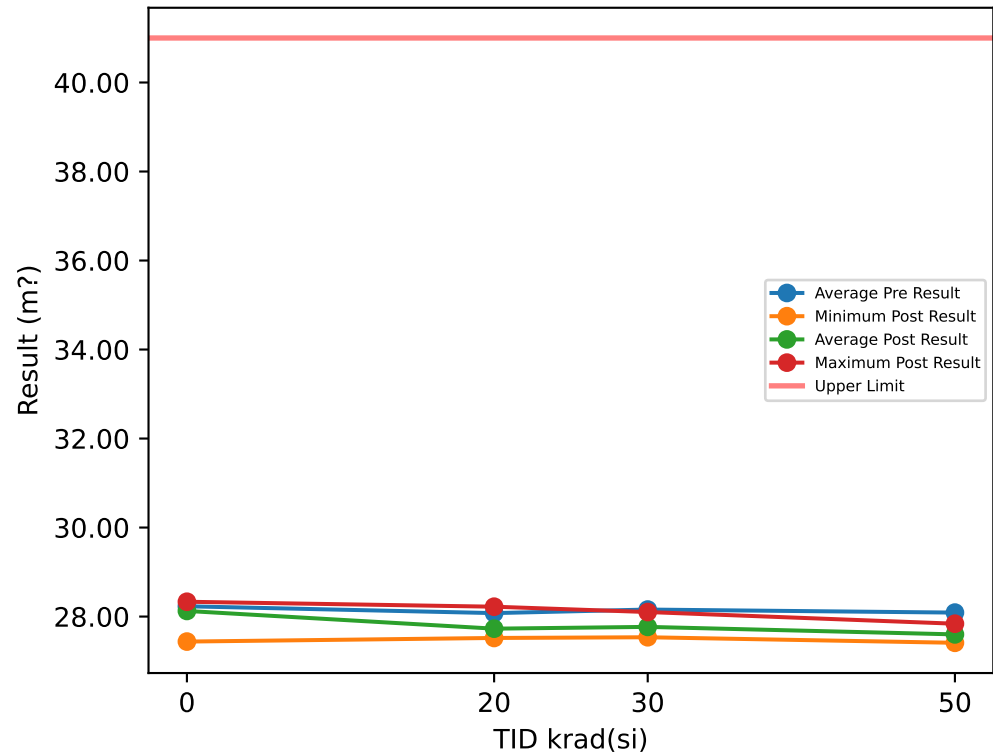


Test Statistics (m?)

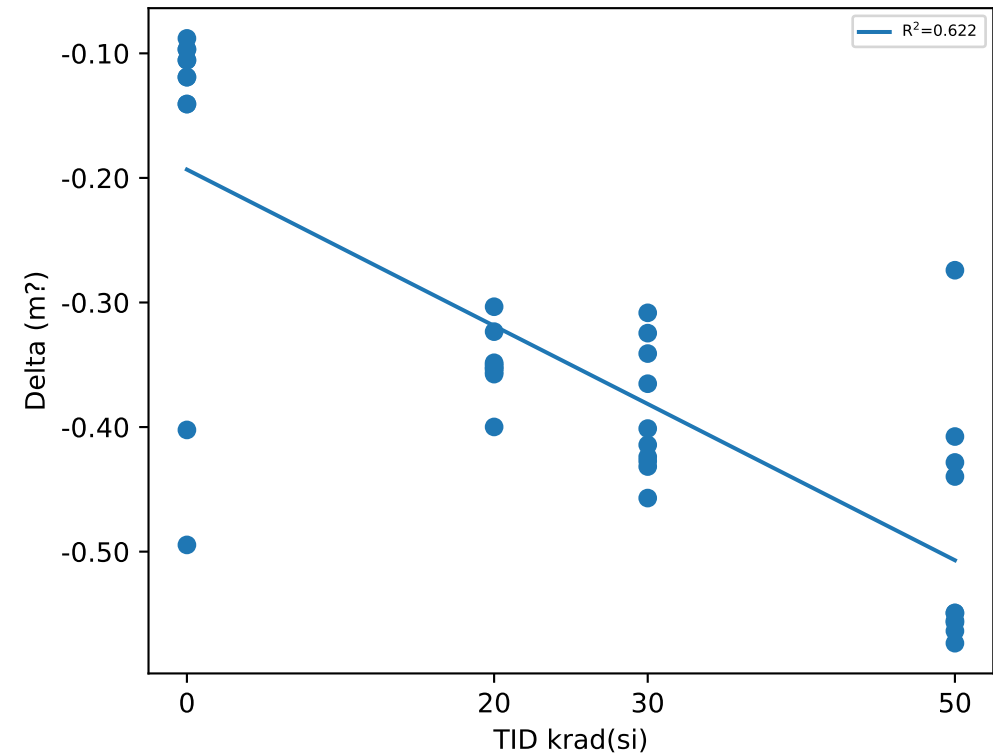
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	25.524	25.858	26.079	0.21092	25.208	25.674	25.976	0.30548	-0.3166	-0.18418	-0.0277	0.12897
20	25.524	25.725	26.232	0.21144	25.263	25.447	25.899	0.19448	-0.3333	-0.27773	-0.2509	0.026117
30	25.424	25.747	26.145	0.2042	25.209	25.44	25.77	0.19276	-0.3763	-0.30711	-0.1805	0.067848
50	25.508	25.727	25.874	0.1095	25.175	25.335	25.517	0.11309	-0.4914	-0.39217	-0.1865	0.086625

Device Test: 21.3 LEVEL|LOWSIDE/SW/4.5/12///@R_LOWSIDE_4V_25C_PLST

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 41.0 (m?))

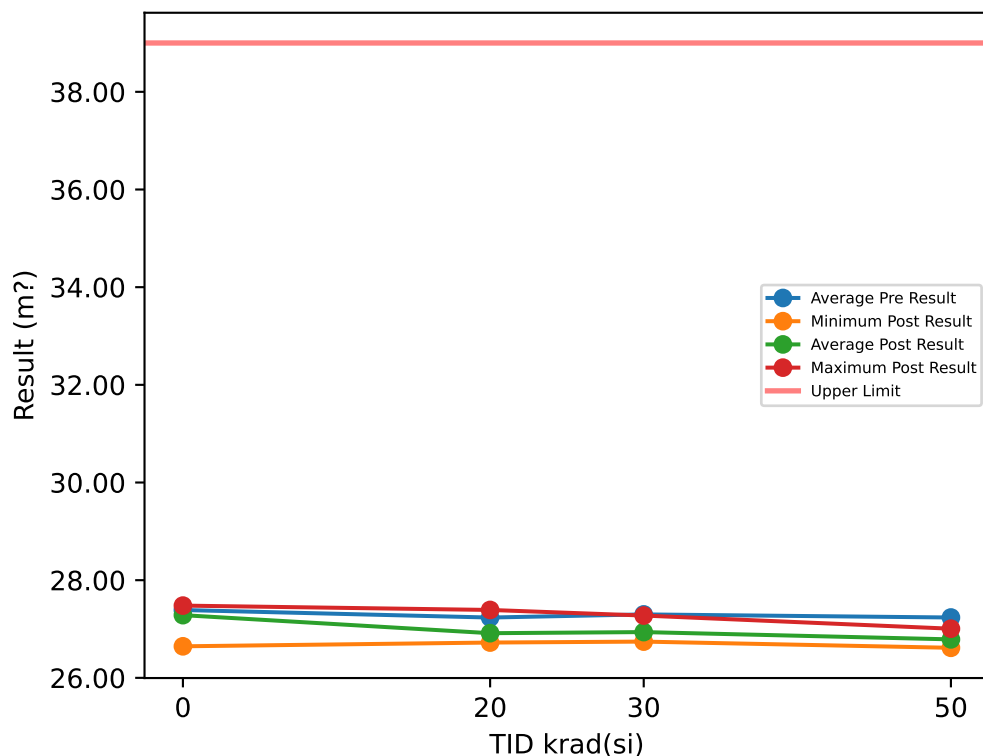
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	27.84	27.438	-0.4023
516	0	CORRELATION	28.293	27.799	-0.4946
721	0	CORRELATION	28.308	28.22	-0.088
723	0	CORRELATION	28.438	28.333	-0.1055
729	0	CORRELATION	28.275	28.178	-0.0968
990	20	Unbiased	27.949	27.593	-0.356
991	20	Unbiased	28.222	27.869	-0.353
992	20	Unbiased	28.128	27.804	-0.3234
993	20	Unbiased	27.833	27.529	-0.3034
994	20	Unbiased	27.953	27.602	-0.3514
995	20	Biased	27.972	27.618	-0.3533
996	20	Biased	28.119	27.762	-0.3575
997	20	Biased	28.111	27.763	-0.3484
998	20	Biased	28.622	28.222	-0.3999
999	20	Biased	27.869	27.519	-0.3496
1020	30	Unbiased	27.884	27.56	-0.3246
1021	30	Unbiased	28.368	28.059	-0.3083
1022	30	Unbiased	28.503	28.102	-0.4012
1023	30	Unbiased	27.949	27.535	-0.4143
1024	30	Unbiased	28.216	27.759	-0.457
1025	30	Biased	27.979	27.638	-0.341
1026	30	Biased	28.252	27.887	-0.3652
1027	30	Biased	28.012	27.588	-0.4239
1028	30	Biased	28.061	27.629	-0.4317
1029	30	Biased	28.35	27.923	-0.4273
1030	50	Unbiased	28.169	27.596	-0.5735
1031	50	Unbiased	28.268	27.704	-0.5637
1032	50	Unbiased	28.182	27.625	-0.5568
1033	50	Unbiased	28.005	27.449	-0.5555
1034	50	Unbiased	27.96	27.41	-0.5493
1035	50	Biased-84Hr-Anneal	28.032	27.624	-0.4076
1036	50	Biased-84Hr-Anneal	28.279	27.839	-0.4397
1037	50	Biased-84Hr-Anneal	28.2	27.772	-0.4284
1038	50	Biased-84Hr-Anneal	27.974	27.424	-0.5492
1039	50	Biased-84Hr-Anneal	27.823	27.549	-0.2741

Test Statistics (m?)

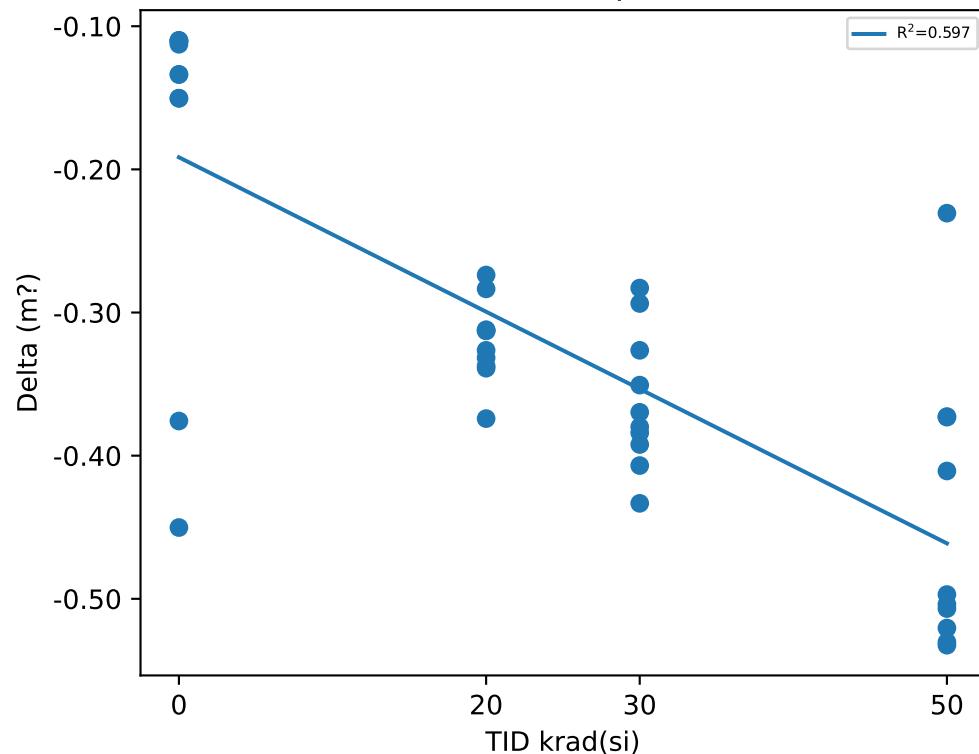
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	27.84	28.231	28.438	0.22776	27.438	27.994	28.333	0.36991	-0.4946	-0.23744	-0.088	0.19547
20	27.833	28.078	28.622	0.22823	27.519	27.728	28.222	0.21105	-0.3999	-0.34959	-0.3034	0.024685
30	27.884	28.157	28.503	0.209	27.535	27.768	28.102	0.21093	-0.457	-0.38945	-0.3083	0.051044
50	27.823	28.089	28.279	0.15159	27.41	27.599	27.839	0.14571	-0.5735	-0.48978	-0.2741	0.098829

Device Test: 21.8 LEVEL|LOWSIDE/SW/5/2///@R_LOWSIDE_5V_25C_PLST

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 39.0 (m?))

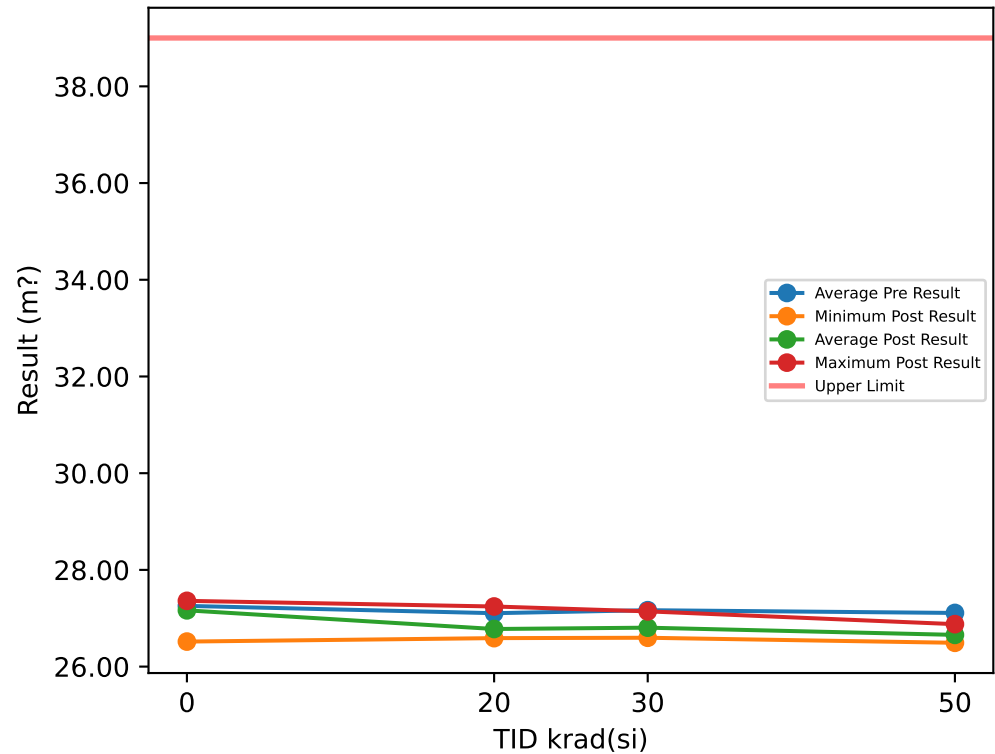
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	27.022	26.646	-0.3758
516	0	CORRELATION	27.436	26.986	-0.4502
721	0	CORRELATION	27.447	27.334	-0.1126
723	0	CORRELATION	27.59	27.48	-0.1106
729	0	CORRELATION	27.452	27.342	-0.1099
990	20	Unbiased	27.119	26.806	-0.3128
991	20	Unbiased	27.401	27.062	-0.3389
992	20	Unbiased	27.24	26.957	-0.2835
993	20	Unbiased	26.997	26.723	-0.2738
994	20	Unbiased	27.099	26.767	-0.3316
995	20	Biased	27.12	26.794	-0.3264
996	20	Biased	27.273	26.961	-0.312
997	20	Biased	27.286	26.949	-0.3373
998	20	Biased	27.765	27.39	-0.3741
999	20	Biased	27.051	26.738	-0.3127
1020	30	Unbiased	27.037	26.744	-0.2937
1021	30	Unbiased	27.467	27.184	-0.2829
1022	30	Unbiased	27.645	27.276	-0.3697
1023	30	Unbiased	27.122	26.742	-0.3799
1024	30	Unbiased	27.328	26.895	-0.4333
1025	30	Biased	27.127	26.8	-0.3264
1026	30	Biased	27.394	27.044	-0.3507
1027	30	Biased	27.182	26.79	-0.3922
1028	30	Biased	27.207	26.8	-0.4069
1029	30	Biased	27.482	27.098	-0.384
1030	50	Unbiased	27.304	26.771	-0.5324
1031	50	Unbiased	27.398	26.892	-0.5068
1032	50	Unbiased	27.297	26.793	-0.5038
1033	50	Unbiased	27.148	26.627	-0.5204
1034	50	Unbiased	27.124	26.627	-0.497
1035	50	Biased-84Hr-Anneal	27.189	26.816	-0.3731
1036	50	Biased-84Hr-Anneal	27.417	27.007	-0.4107
1037	50	Biased-84Hr-Anneal	27.348	26.975	-0.3727
1038	50	Biased-84Hr-Anneal	27.146	26.616	-0.5302
1039	50	Biased-84Hr-Anneal	26.989	26.758	-0.2306

Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	27.022	27.389	27.59	0.21492	26.646	27.157	27.48	0.33914	-0.4502	-0.23182	-0.1099	0.16748
20	26.997	27.235	27.765	0.22316	26.723	26.915	27.39	0.20262	-0.3741	-0.32031	-0.2738	0.02866
30	27.037	27.299	27.645	0.19536	26.742	26.937	27.276	0.19709	-0.4333	-0.36197	-0.2829	0.04852
50	26.989	27.236	27.417	0.1382	26.616	26.788	27.007	0.14028	-0.5324	-0.44777	-0.2306	0.09889

Device Test: 21.9 LEVEL|LOWSIDE/SW/5/12///@R_LOWSIDE_5V_25C_PLST

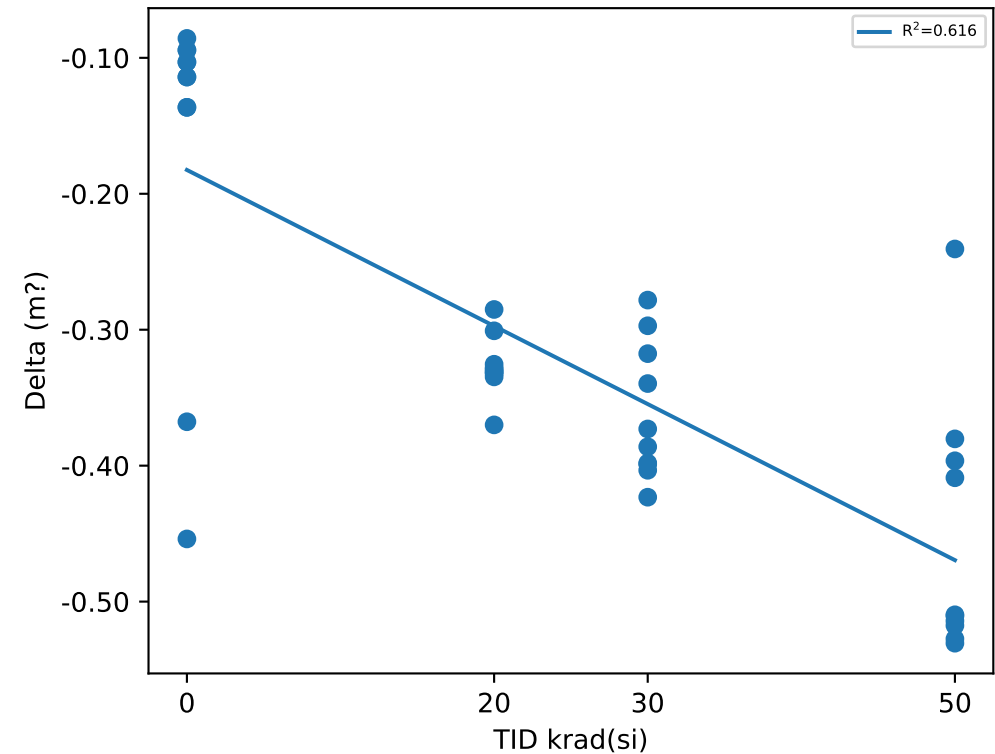
TID vs Result Stats



Test Results (Upper Limit = 39.0 (m?))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	26.885	26.518	-0.3677
516	0	CORRELATION	27.311	26.857	-0.4539
721	0	CORRELATION	27.308	27.222	-0.0857
723	0	CORRELATION	27.463	27.36	-0.1031
729	0	CORRELATION	27.312	27.218	-0.0943
990	20	Unbiased	26.986	26.652	-0.3347
991	20	Unbiased	27.278	26.947	-0.3309
992	20	Unbiased	27.116	26.816	-0.3008
993	20	Unbiased	26.874	26.589	-0.2851
994	20	Unbiased	26.98	26.648	-0.3325
995	20	Biased	26.983	26.654	-0.3291
996	20	Biased	27.142	26.811	-0.3312
997	20	Biased	27.139	26.813	-0.3254
998	20	Biased	27.613	27.243	-0.37
999	20	Biased	26.933	26.605	-0.3281
1020	30	Unbiased	26.911	26.614	-0.2971
1021	30	Unbiased	27.326	27.048	-0.2782
1022	30	Unbiased	27.515	27.142	-0.373
1023	30	Unbiased	26.983	26.597	-0.3861
1024	30	Unbiased	27.193	26.769	-0.4232
1025	30	Biased	26.994	26.677	-0.3176
1026	30	Biased	27.251	26.911	-0.3396
1027	30	Biased	27.051	26.652	-0.3989
1028	30	Biased	27.075	26.672	-0.4034
1029	30	Biased	27.367	26.969	-0.3981
1030	50	Unbiased	27.17	26.643	-0.5274
1031	50	Unbiased	27.267	26.749	-0.5176
1032	50	Unbiased	27.16	26.649	-0.5105
1033	50	Unbiased	27.025	26.511	-0.5142
1034	50	Unbiased	27.012	26.502	-0.5097
1035	50	Biased-84Hr-Anneal	27.064	26.684	-0.3803
1036	50	Biased-84Hr-Anneal	27.287	26.878	-0.4089
1037	50	Biased-84Hr-Anneal	27.226	26.829	-0.3964
1038	50	Biased-84Hr-Anneal	27.023	26.492	-0.5306
1039	50	Biased-84Hr-Anneal	26.865	26.625	-0.2406

TID vs Post - Pre Exposure Delta

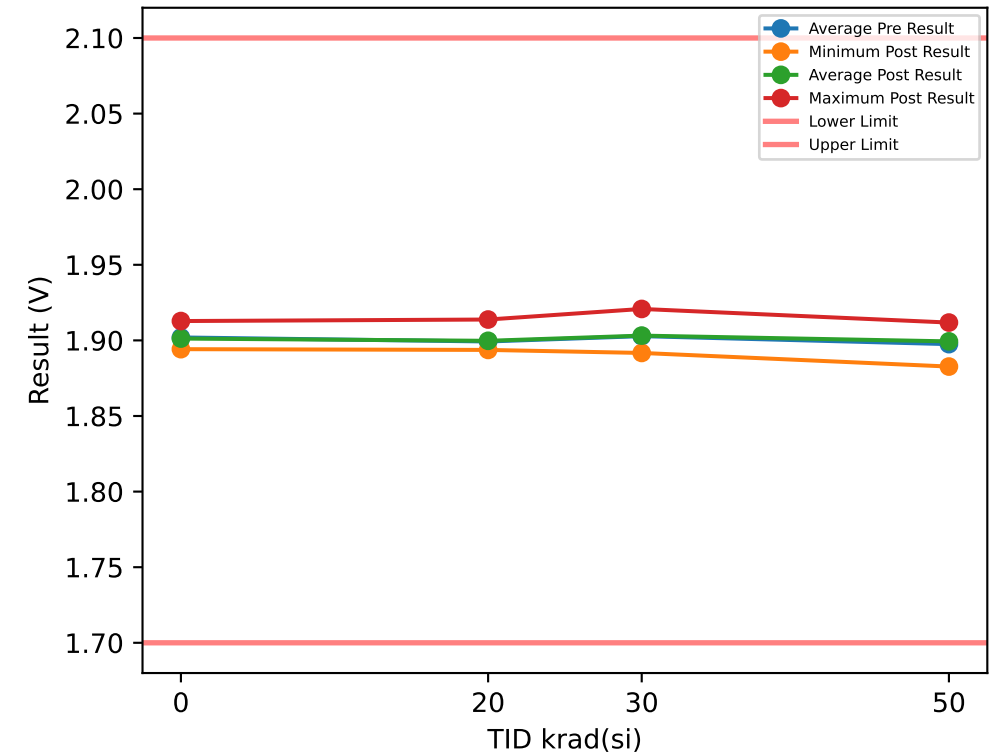


Test Statistics (m?)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.885	27.256	27.463	0.21743	26.518	27.035	27.36	0.34402	-0.4539	-0.22094	-0.0857	0.17608
20	26.874	27.105	27.613	0.21563	26.589	26.778	27.243	0.20082	-0.37	-0.32678	-0.2851	0.022164
30	26.911	27.167	27.515	0.19596	26.597	26.805	27.142	0.19711	-0.4232	-0.36152	-0.2782	0.050035
50	26.865	27.11	27.287	0.13398	26.492	26.656	26.878	0.13391	-0.5306	-0.45362	-0.2406	0.095184

Device Test: 22.1 LEVEL|RISE/COMP/4.5////@V_COMP_SD

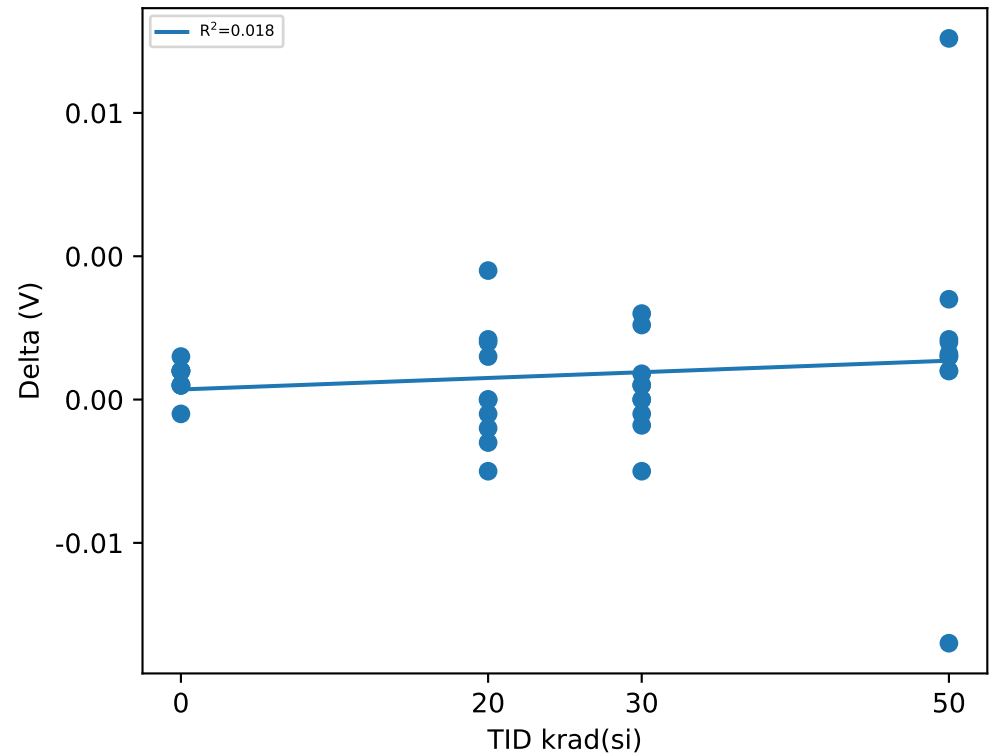
TID vs Result Stats



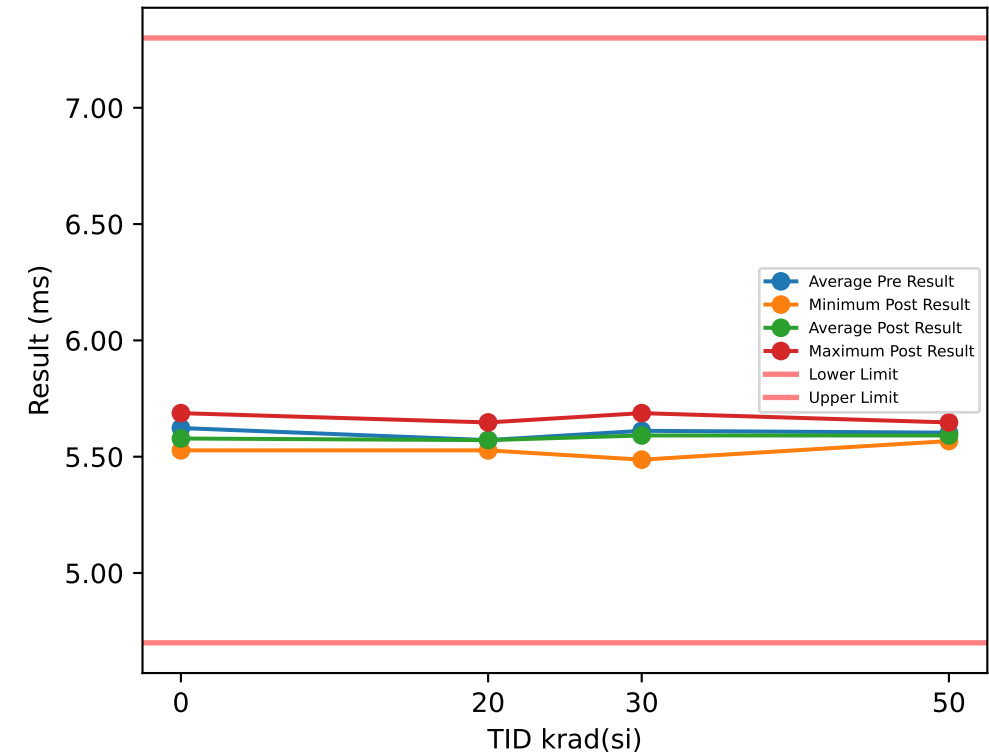
Test Results (Lower Limit = 1.7, Upper Limit = 2.1 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.9113	1.9128	0.0015
516	0	CORRELATION	1.9023	1.9033	0.001
721	0	CORRELATION	1.8977	1.8972	-0.0005
723	0	CORRELATION	1.9048	1.9058	0.001
729	0	CORRELATION	1.8937	1.8942	0.0005
990	20	Unbiased	1.8937	1.8937	0
991	20	Unbiased	1.9002	1.8987	-0.0015
992	20	Unbiased	1.8977	1.8967	-0.001
993	20	Unbiased	1.9058	1.9058	0
994	20	Unbiased	1.8982	1.9002	0.002
995	20	Biased	1.9123	1.9138	0.0015
996	20	Biased	1.8942	1.8937	-0.0005
997	20	Biased	1.8967	1.8942	-0.0025
998	20	Biased	1.8937	1.8982	0.0045
999	20	Biased	1.9002	1.9023	0.0021
1020	30	Unbiased	1.9058	1.9033	-0.0025
1021	30	Unbiased	1.9007	1.8998	-0.0009
1022	30	Unbiased	1.9078	1.9083	0.0005
1023	30	Unbiased	1.9053	1.9048	-0.0005
1024	30	Unbiased	1.9023	1.9028	0.0005
1025	30	Biased	1.9208	1.9208	0
1026	30	Biased	1.8967	1.8993	0.0026
1027	30	Biased	1.8998	1.9007	0.0009
1028	30	Biased	1.8972	1.9002	0.003
1029	30	Biased	1.8917	1.8917	0
1030	50	Unbiased	1.8927	1.8942	0.0015
1031	50	Unbiased	1.8927	1.8962	0.0035
1032	50	Unbiased	1.9007	1.9023	0.0016
1033	50	Unbiased	1.8812	1.8827	0.0015
1034	50	Unbiased	1.8977	1.8998	0.0021
1035	50	Biased-84Hr-Anneal	1.9108	1.9118	0.001
1036	50	Biased-84Hr-Anneal	1.9018	1.9038	0.002
1037	50	Biased-84Hr-Anneal	1.8922	1.8932	0.001
1038	50	Biased-84Hr-Anneal	1.8977	1.9103	0.0126
1039	50	Biased-84Hr-Anneal	1.9078	1.8993	-0.0085

TID vs Post - Pre Exposure Delta



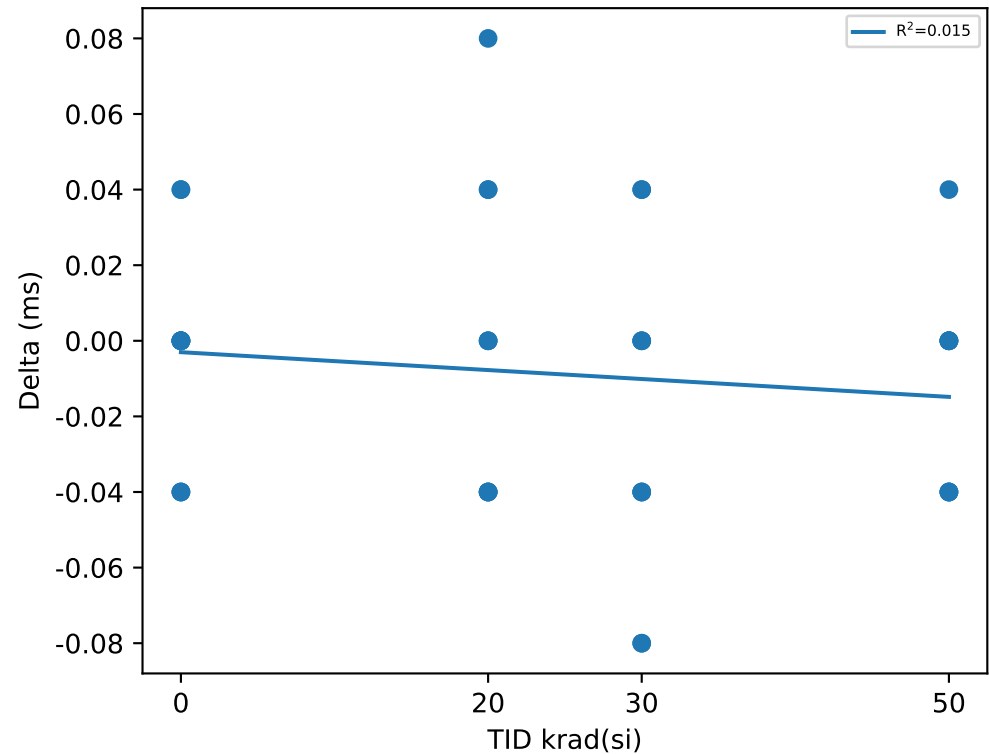
TID vs Result Stats



Test Results (Lower Limit = 4.7, Upper Limit = 7.3 (ms))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.7273	5.6873	-0.04
516	0	CORRELATION	5.6473	5.6073	-0.04
721	0	CORRELATION	5.6473	5.6073	-0.04
723	0	CORRELATION	5.5273	5.5673	0.04
729	0	CORRELATION	5.5673	5.5673	0
990	20	Unbiased	5.5673	5.5673	0
991	20	Unbiased	5.6073	5.5673	-0.04
992	20	Unbiased	5.4873	5.5273	0.04
993	20	Unbiased	5.5673	5.5273	-0.04
994	20	Unbiased	5.5673	5.5673	0
995	20	Biased	5.5673	5.6073	0.04
996	20	Biased	5.6473	5.6473	0
997	20	Biased	5.6073	5.5673	-0.04
998	20	Biased	5.4873	5.5673	0.08
999	20	Biased	5.6073	5.5673	-0.04
1020	30	Unbiased	5.6873	5.6873	0
1021	30	Unbiased	5.6873	5.6473	-0.04
1022	30	Unbiased	5.5673	5.4873	-0.08
1023	30	Unbiased	5.6073	5.5673	-0.04
1024	30	Unbiased	5.6073	5.6073	0
1025	30	Biased	5.6473	5.5673	-0.08
1026	30	Biased	5.5673	5.6073	0.04
1027	30	Biased	5.5273	5.5273	0
1028	30	Biased	5.5673	5.5273	-0.04
1029	30	Biased	5.6473	5.6873	0.04
1030	50	Unbiased	5.6073	5.5673	-0.04
1031	50	Unbiased	5.6073	5.6073	0
1032	50	Unbiased	5.6073	5.5673	-0.04
1033	50	Unbiased	5.5673	5.5673	0
1034	50	Unbiased	5.5673	5.5673	0
1035	50	Biased-84Hr-Anneal	5.6073	5.6073	0
1036	50	Biased-84Hr-Anneal	5.6073	5.5673	-0.04
1037	50	Biased-84Hr-Anneal	5.5673	5.5673	0
1038	50	Biased-84Hr-Anneal	5.6073	5.6473	0.04
1039	50	Biased-84Hr-Anneal	5.6873	5.6473	-0.04

TID vs Post - Pre Exposure Delta

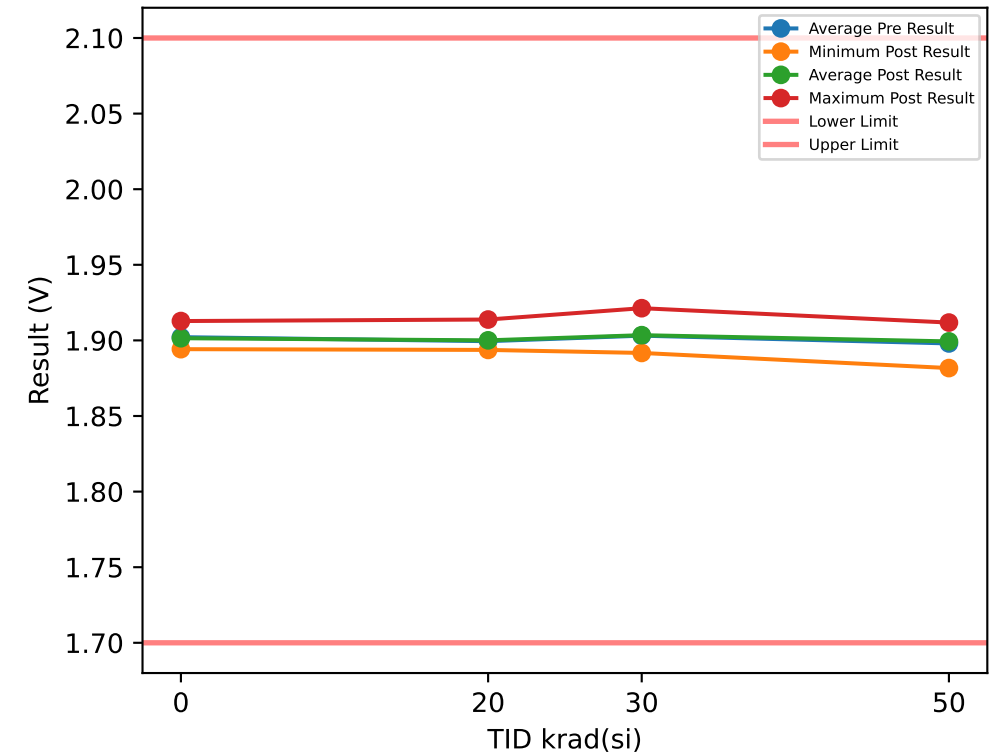


Test Statistics (ms)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.5273	5.6233	5.7273	0.077974	5.5673	5.6073	5.6873	0.04899	-0.04	-0.016	0.04	0.035777
20	5.4873	5.5713	5.6473	0.051467	5.5273	5.5713	5.6473	0.035024	-0.04	0	0.08	0.042164
30	5.5273	5.6113	5.6873	0.054813	5.4873	5.5913	5.6873	0.068508	-0.08	-0.02	0.04	0.043205
50	5.5673	5.6033	5.6873	0.035024	5.5673	5.5913	5.6473	0.033731	-0.04	-0.012	0.04	0.026998

Device Test: 22.15 LEVEL|RISE/COMP/12/////@V_COMP_SD

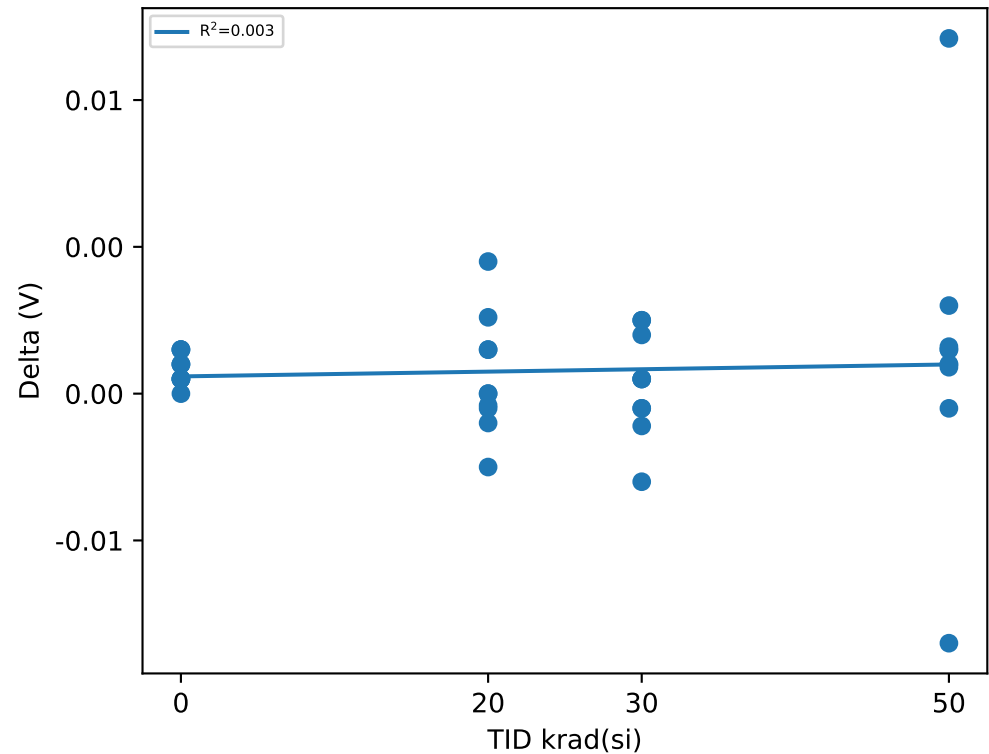
TID vs Result Stats



Test Results (Lower Limit = 1.7, Upper Limit = 2.1 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.9118	1.9128	0.001
516	0	CORRELATION	1.9023	1.9038	0.0015
721	0	CORRELATION	1.8982	1.8982	0
723	0	CORRELATION	1.9048	1.9058	0.001
729	0	CORRELATION	1.8937	1.8942	0.0005
990	20	Unbiased	1.8937	1.8937	0
991	20	Unbiased	1.9002	1.8998	-0.0004
992	20	Unbiased	1.8977	1.8967	-0.001
993	20	Unbiased	1.9063	1.9063	0
994	20	Unbiased	1.8987	1.9002	0.0015
995	20	Biased	1.9123	1.9138	0.0015
996	20	Biased	1.8947	1.8942	-0.0005
997	20	Biased	1.8967	1.8942	-0.0025
998	20	Biased	1.8942	1.8987	0.0045
999	20	Biased	1.9002	1.9028	0.0026
1020	30	Unbiased	1.9063	1.9033	-0.003
1021	30	Unbiased	1.9013	1.9002	-0.0011
1022	30	Unbiased	1.9078	1.9083	0.0005
1023	30	Unbiased	1.9053	1.9048	-0.0005
1024	30	Unbiased	1.9023	1.9028	0.0005
1025	30	Biased	1.9208	1.9213	0.0005
1026	30	Biased	1.8977	1.9002	0.0025
1027	30	Biased	1.8998	1.9018	0.002
1028	30	Biased	1.8977	1.9002	0.0025
1029	30	Biased	1.8922	1.8917	-0.0005
1030	50	Unbiased	1.8932	1.8947	0.0015
1031	50	Unbiased	1.8932	1.8962	0.003
1032	50	Unbiased	1.9007	1.9023	0.0016
1033	50	Unbiased	1.8822	1.8817	-0.0005
1034	50	Unbiased	1.8993	1.9002	0.0009
1035	50	Biased-84Hr-Anneal	1.9108	1.9118	0.001
1036	50	Biased-84Hr-Anneal	1.9023	1.9038	0.0015
1037	50	Biased-84Hr-Anneal	1.8922	1.8932	0.001
1038	50	Biased-84Hr-Anneal	1.8982	1.9103	0.0121
1039	50	Biased-84Hr-Anneal	1.9078	1.8993	-0.0085

TID vs Post - Pre Exposure Delta

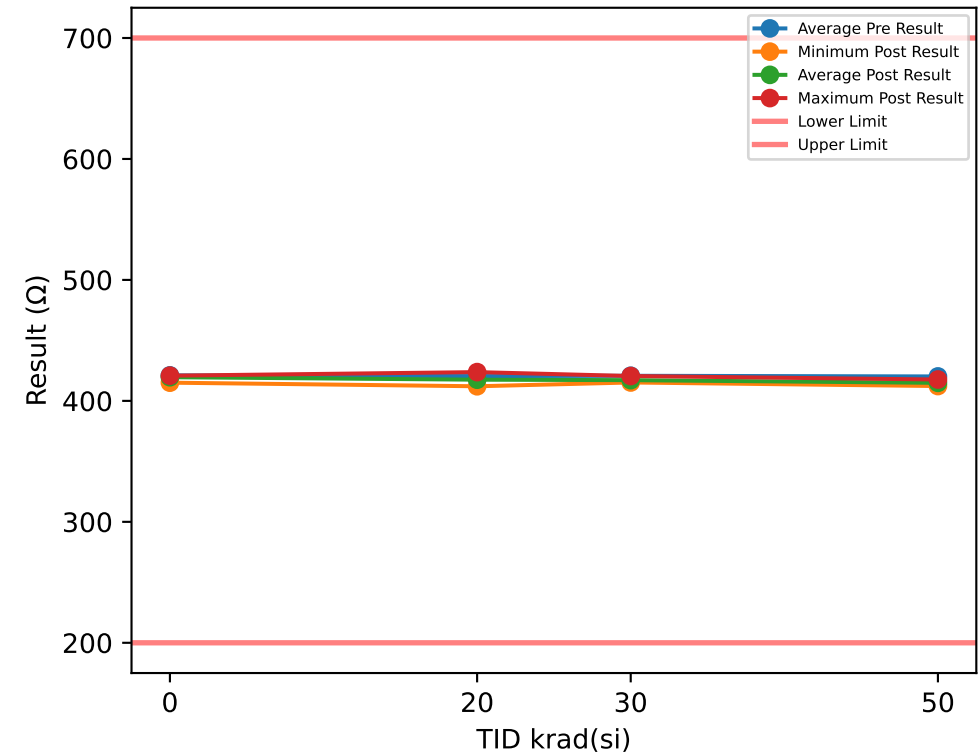


Test Statistics (V)

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	1.8937	1.9022	1.9118	0.0068405	1.8942	1.903	1.9128	0.0071588	0	0.0008	0.0015	0.00057009
20	1.8937	1.8995	1.9123	0.0058456	1.8937	1.9	1.9138	0.0063033	-0.0025	0.00057	0.0045	0.0019978
30	1.8922	1.9031	1.9208	0.0077628	1.8917	1.9035	1.9213	0.0075784	-0.003	0.00034	0.0025	0.0017258
50	1.8822	1.898	1.9108	0.0082781	1.8817	1.8994	1.9118	0.0087243	-0.0085	0.00136	0.0121	0.0049361

Device Test: 22.16 LEVEL|SINK/SS_TR/12////@R_SS_DISCHARGE

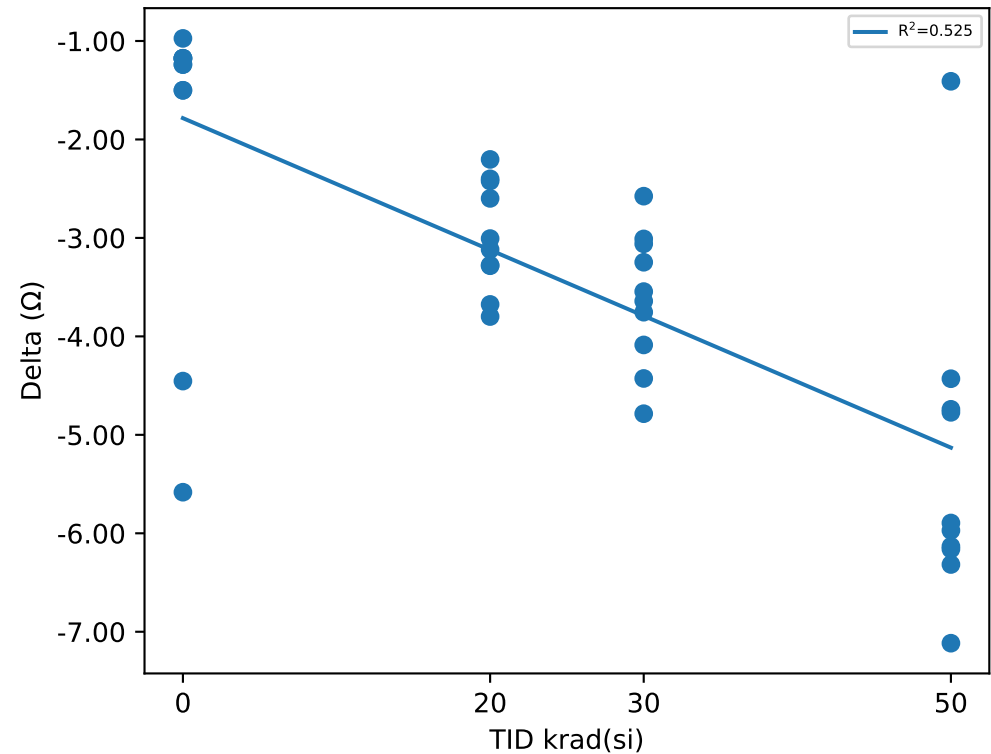
TID vs Result Stats



Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	420.31	415.86	-4.4541
516	0	CORRELATION	420.63	415.05	-5.5827
721	0	CORRELATION	420.86	419.88	-0.9736
723	0	CORRELATION	422.01	420.83	-1.1752
729	0	CORRELATION	421.64	420.4	-1.2391
990	20	Unbiased	420.64	417.63	-3.0066
991	20	Unbiased	420.61	418.18	-2.4222
992	20	Unbiased	414.28	412.08	-2.2027
993	20	Unbiased	416.1	413.7	-2.3996
994	20	Unbiased	417.76	415.16	-2.5986
995	20	Biased	417.88	414.76	-3.1176
996	20	Biased	423.66	419.99	-3.6753
997	20	Biased	424.85	421.58	-3.2773
998	20	Biased	427.58	423.78	-3.7985
999	20	Biased	421.56	418.28	-3.2824
1020	30	Unbiased	419.27	416.21	-3.0598
1021	30	Unbiased	421.67	418.43	-3.2472
1022	30	Unbiased	422.27	418.18	-4.0869
1023	30	Unbiased	420.66	416.23	-4.4274
1024	30	Unbiased	420.6	415.82	-4.7853
1025	30	Biased	419.36	416.78	-2.576
1026	30	Biased	421.24	418.23	-3.0101
1027	30	Biased	418.96	415.21	-3.7544
1028	30	Biased	419.29	415.75	-3.545
1029	30	Biased	424.19	420.55	-3.6417
1030	50	Unbiased	421.38	415.06	-6.3168
1031	50	Unbiased	419.21	413.23	-5.9709
1032	50	Unbiased	418.42	412.26	-6.1607
1033	50	Unbiased	419.46	413.33	-6.1331
1034	50	Unbiased	420.63	414.74	-5.8953
1035	50	Biased-84Hr-Anneal	421.19	416.45	-4.7407
1036	50	Biased-84Hr-Anneal	419.67	415.24	-4.4301
1037	50	Biased-84Hr-Anneal	420.97	416.2	-4.7714
1038	50	Biased-84Hr-Anneal	422.08	414.96	-7.1162
1039	50	Biased-84Hr-Anneal	419.07	417.66	-1.4093

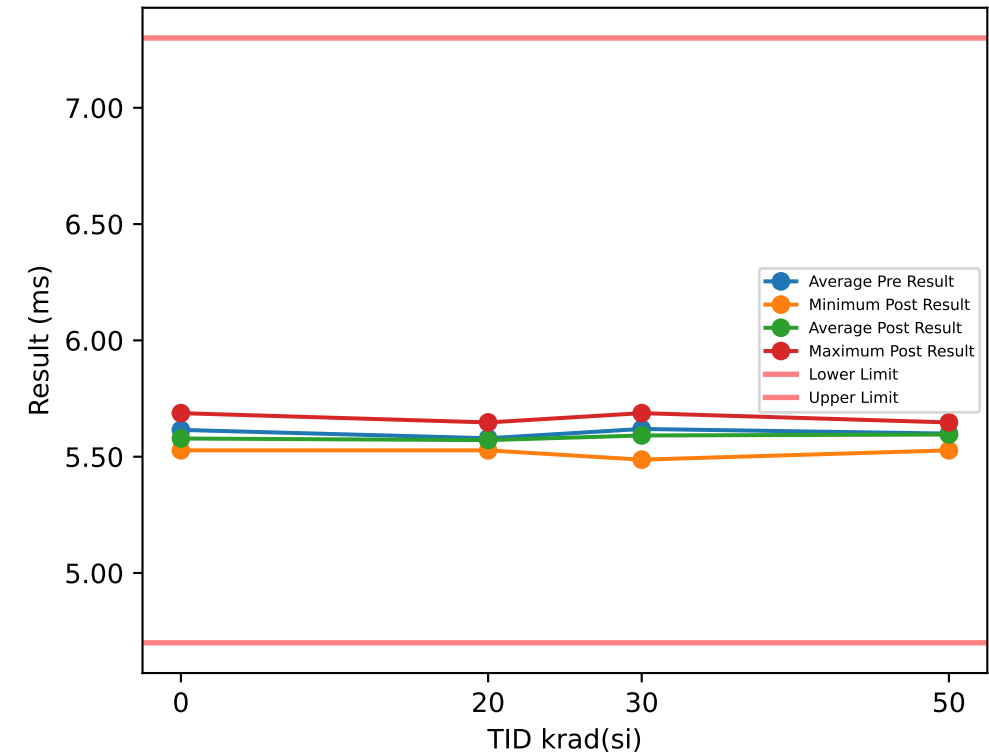
TID vs Post - Pre Exposure Delta



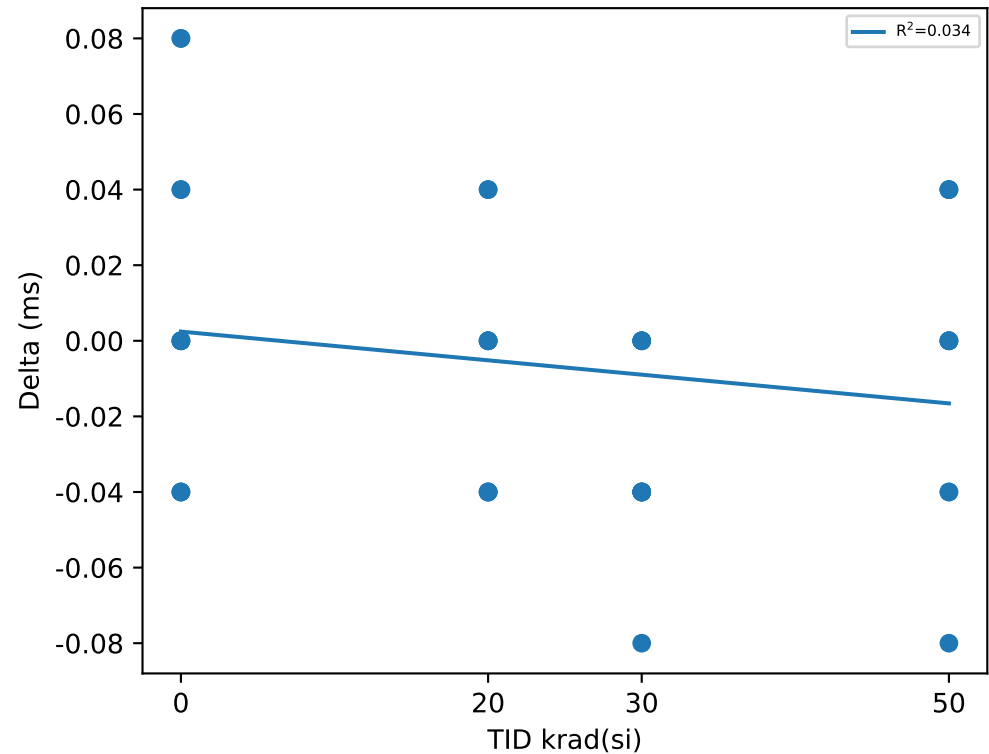
Test Statistics (Ω)

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	420.31	421.09	422.01	0.70773	415.05	418.4	420.83	2.7279	-5.5827	-2.6849	-0.9736	2.1694
20	414.28	420.49	427.58	4.1192	412.08	417.51	423.78	3.6545	-3.7985	-2.9781	-2.2027	0.55282
30	418.96	420.75	424.19	1.6585	415.21	417.14	420.55	1.6607	-4.7853	-3.6134	-2.576	0.68038
50	418.42	420.21	422.08	1.1988	412.26	414.91	417.66	1.6372	-7.1162	-5.2945	-1.4093	1.6006

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 4.7, Upper Limit = 7.3 (ms))

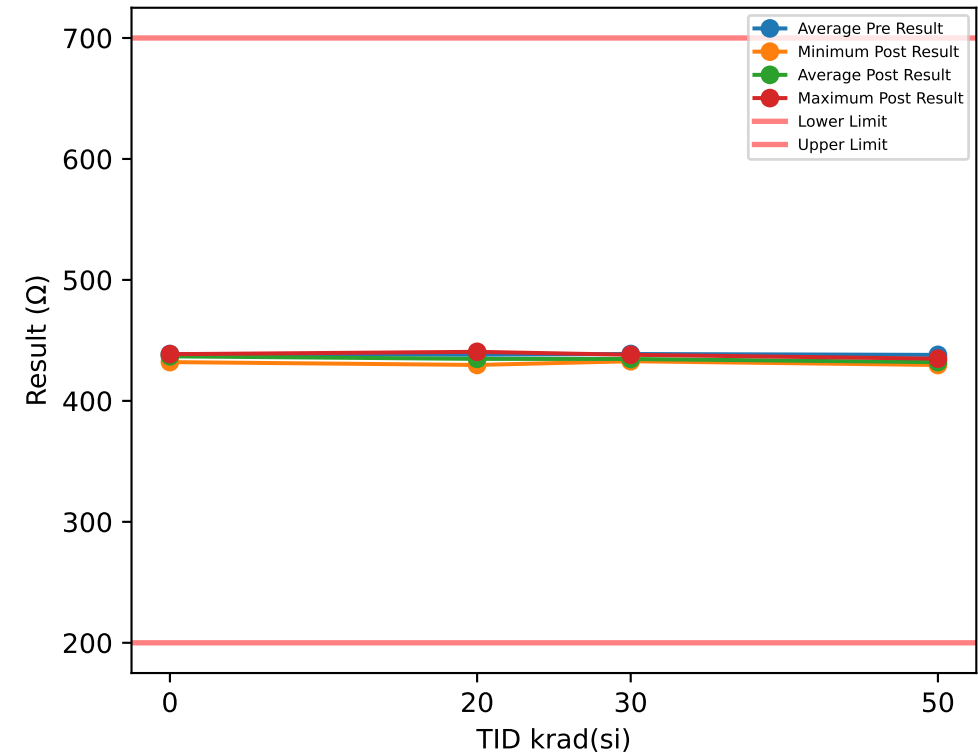
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.7273	5.6873	-0.04
516	0	CORRELATION	5.6473	5.6073	-0.04
721	0	CORRELATION	5.6473	5.6073	-0.04
723	0	CORRELATION	5.4873	5.5673	0.08
729	0	CORRELATION	5.5673	5.5673	0
990	20	Unbiased	5.5673	5.5673	0
991	20	Unbiased	5.6073	5.5673	-0.04
992	20	Unbiased	5.4873	5.5273	0.04
993	20	Unbiased	5.5673	5.5273	-0.04
994	20	Unbiased	5.5673	5.5673	0
995	20	Biased	5.6073	5.6073	0
996	20	Biased	5.6473	5.6473	0
997	20	Biased	5.6073	5.5673	-0.04
998	20	Biased	5.5273	5.5673	0.04
999	20	Biased	5.6073	5.5673	-0.04
1020	30	Unbiased	5.7273	5.6873	-0.04
1021	30	Unbiased	5.7273	5.6873	-0.04
1022	30	Unbiased	5.5273	5.4873	-0.04
1023	30	Unbiased	5.6073	5.5673	-0.04
1024	30	Unbiased	5.6073	5.6073	0
1025	30	Biased	5.6473	5.5673	-0.08
1026	30	Biased	5.6073	5.6073	0
1027	30	Biased	5.5273	5.5273	0
1028	30	Biased	5.5673	5.5273	-0.04
1029	30	Biased	5.6473	5.6473	0
1030	50	Unbiased	5.6073	5.5673	-0.04
1031	50	Unbiased	5.6073	5.6473	0.04
1032	50	Unbiased	5.6073	5.5273	-0.08
1033	50	Unbiased	5.5273	5.5673	0.04
1034	50	Unbiased	5.6073	5.6073	0
1035	50	Biased-84Hr-Anneal	5.6073	5.6073	0
1036	50	Biased-84Hr-Anneal	5.5673	5.5673	0
1037	50	Biased-84Hr-Anneal	5.5673	5.5673	0
1038	50	Biased-84Hr-Anneal	5.6073	5.6473	0.04
1039	50	Biased-84Hr-Anneal	5.6873	5.6473	-0.04

Test Statistics (ms)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.4873	5.6153	5.7273	0.091214	5.5673	5.6073	5.6873	0.04899	-0.04	-0.008	0.08	0.052154
20	5.4873	5.5793	5.6473	0.04638	5.5273	5.5713	5.6473	0.035024	-0.04	-0.008	0.04	0.031552
30	5.5273	5.6193	5.7273	0.070679	5.4873	5.5913	5.6873	0.068508	-0.08	-0.028	0	0.026998
50	5.5273	5.5993	5.6873	0.041312	5.5273	5.5953	5.6473	0.042374	-0.08	-0.004	0.04	0.039777

Device Test: 22.2 LEVEL|SINK/SS_TR/4.5////@R_SS_DISCHARGE

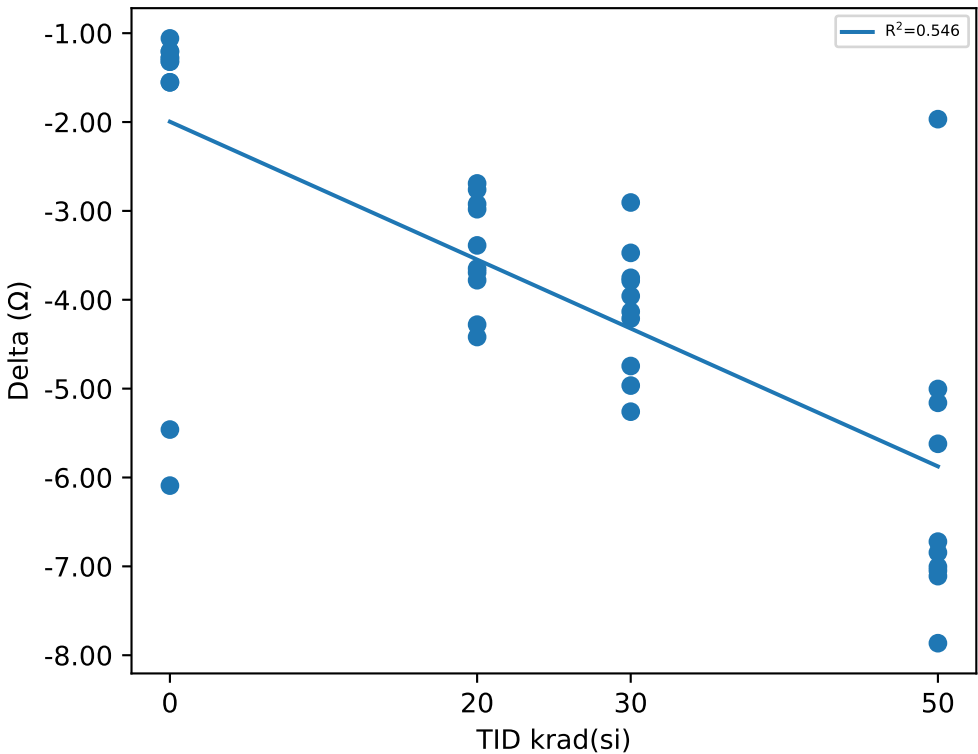
TID vs Result Stats



Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	438.41	432.95	-5.4605
516	0	CORRELATION	438.15	432.06	-6.0913
721	0	CORRELATION	438.79	437.73	-1.0587
723	0	CORRELATION	439.81	438.6	-1.2057
729	0	CORRELATION	438.46	437.14	-1.3201
990	20	Unbiased	437.78	434.39	-3.3881
991	20	Unbiased	438.29	435.37	-2.9226
992	20	Unbiased	432.46	429.7	-2.7608
993	20	Unbiased	433.57	430.88	-2.6907
994	20	Unbiased	434.99	432.01	-2.981
995	20	Biased	435.41	431.76	-3.649
996	20	Biased	441.52	437.24	-4.2799
997	20	Biased	442.79	439.1	-3.6926
998	20	Biased	444.97	440.55	-4.4192
999	20	Biased	439.88	436.1	-3.7801
1020	30	Unbiased	436.86	433.08	-3.7867
1021	30	Unbiased	439.7	435.95	-3.7527
1022	30	Unbiased	439.66	434.92	-4.7455
1023	30	Unbiased	438.57	433.61	-4.9657
1024	30	Unbiased	439.41	434.15	-5.2594
1025	30	Biased	437.75	434.84	-2.9053
1026	30	Biased	438.8	435.32	-3.4722
1027	30	Biased	437.86	433.65	-4.2114
1028	30	Biased	436.72	432.76	-3.9582
1029	30	Biased	442.24	438.11	-4.1336
1030	50	Unbiased	439.43	432.32	-7.1101
1031	50	Unbiased	437.34	430.34	-7.0042
1032	50	Unbiased	437.06	430.01	-7.0472
1033	50	Unbiased	436.5	429.66	-6.8443
1034	50	Unbiased	437.64	430.92	-6.7217
1035	50	Biased-84Hr-Anneal	439.09	433.93	-5.1597
1036	50	Biased-84Hr-Anneal	437.86	432.85	-5.0038
1037	50	Biased-84Hr-Anneal	438.44	432.82	-5.6208
1038	50	Biased-84Hr-Anneal	440.07	432.21	-7.8647
1039	50	Biased-84Hr-Anneal	436.84	434.87	-1.9675

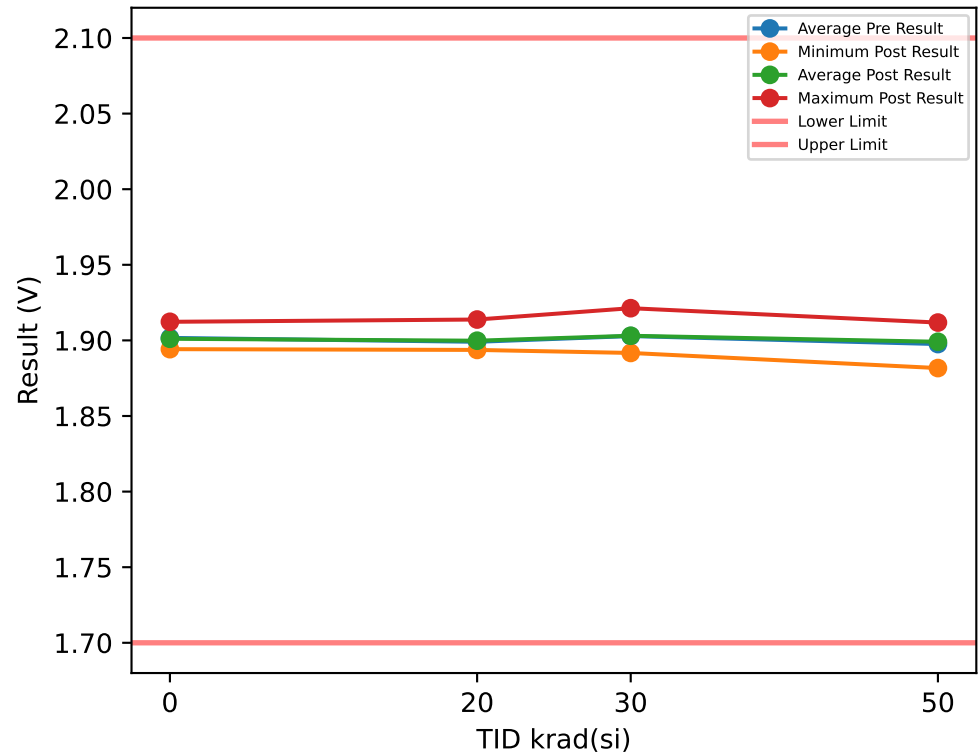
TID vs Post - Pre Exposure Delta



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	438.15	438.72	439.81	0.64639	432.06	435.7	438.6	2.9753	-6.0913	-3.0273	-1.0587	2.5207
20	432.46	438.17	444.97	4.1289	429.7	434.71	440.55	3.6215	-4.4192	-3.4564	-2.6907	0.6136
30	436.72	438.76	442.24	1.6287	432.76	434.64	438.11	1.5847	-5.2594	-4.1191	-2.9053	0.71341
50	436.5	438.03	440.07	1.1908	429.66	431.99	434.87	1.7283	-7.8647	-6.0344	-1.9675	1.7042

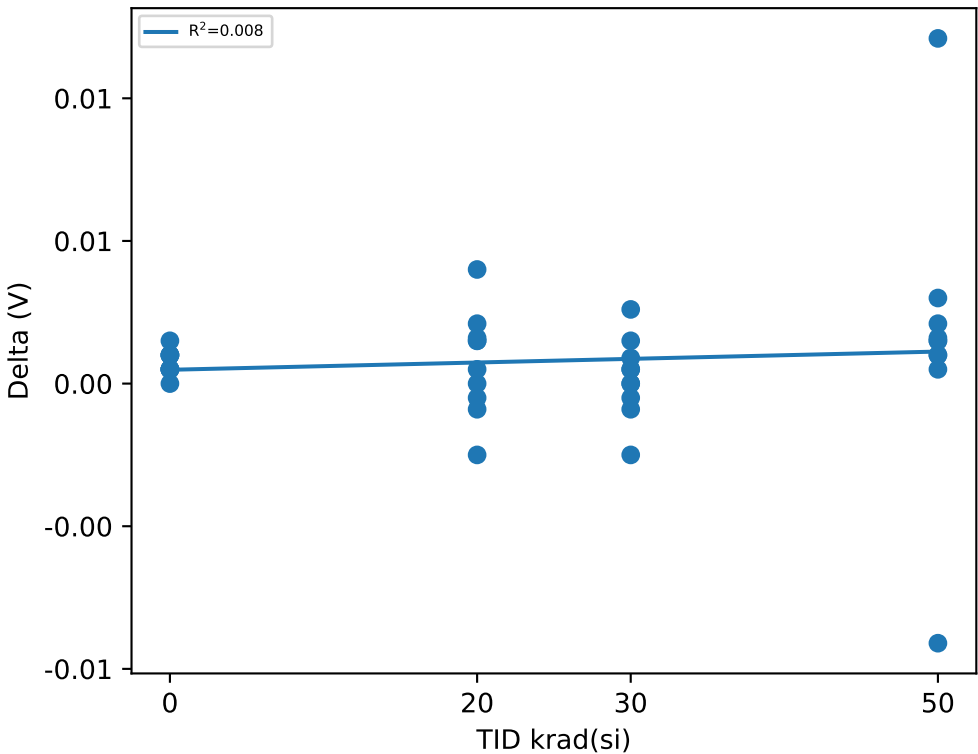
TID vs Result Stats



Test Results (Lower Limit = 1.7, Upper Limit = 2.1 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.9108	1.9123	0.0015
516	0	CORRELATION	1.9018	1.9023	0.0005
721	0	CORRELATION	1.8972	1.8972	0
723	0	CORRELATION	1.9048	1.9058	0.001
729	0	CORRELATION	1.8937	1.8942	0.0005
990	20	Unbiased	1.8937	1.8937	0
991	20	Unbiased	1.9002	1.8993	-0.0009
992	20	Unbiased	1.8947	1.8962	0.0015
993	20	Unbiased	1.9058	1.9063	0.0005
994	20	Unbiased	1.8982	1.8998	0.0016
995	20	Biased	1.9123	1.9138	0.0015
996	20	Biased	1.8947	1.8942	-0.0005
997	20	Biased	1.8967	1.8942	-0.0025
998	20	Biased	1.8942	1.8982	0.004
999	20	Biased	1.9002	1.9023	0.0021
1020	30	Unbiased	1.9058	1.9033	-0.0025
1021	30	Unbiased	1.9007	1.8998	-0.0009
1022	30	Unbiased	1.9078	1.9083	0.0005
1023	30	Unbiased	1.9053	1.9048	-0.0005
1024	30	Unbiased	1.9023	1.9023	0
1025	30	Biased	1.9208	1.9213	0.0005
1026	30	Biased	1.8972	1.8998	0.0026
1027	30	Biased	1.8998	1.9007	0.0009
1028	30	Biased	1.8972	1.8987	0.0015
1029	30	Biased	1.8917	1.8917	0
1030	50	Unbiased	1.8932	1.8947	0.0015
1031	50	Unbiased	1.8927	1.8957	0.003
1032	50	Unbiased	1.9002	1.9023	0.0021
1033	50	Unbiased	1.8812	1.8817	0.0005
1034	50	Unbiased	1.8982	1.8998	0.0016
1035	50	Biased-84Hr-Anneal	1.9108	1.9118	0.001
1036	50	Biased-84Hr-Anneal	1.9018	1.9033	0.0015
1037	50	Biased-84Hr-Anneal	1.8922	1.8932	0.001
1038	50	Biased-84Hr-Anneal	1.8977	1.9098	0.0121
1039	50	Biased-84Hr-Anneal	1.9078	1.8987	-0.0091

TID vs Post - Pre Exposure Delta

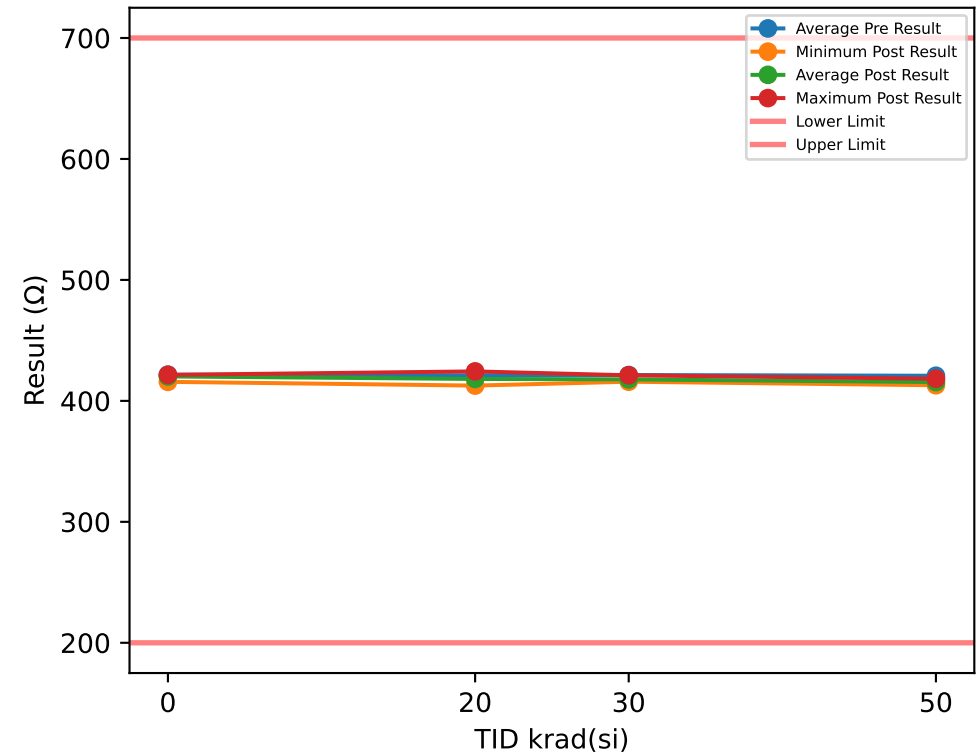


Test Statistics (V)

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	1.8937	1.9017	1.9108	0.0066459	1.8942	1.9024	1.9123	0.0071388	0	0.0007	0.0015	0.00057009
20	1.8937	1.8991	1.9123	0.0059629	1.8937	1.8998	1.9138	0.0063263	-0.0025	0.00073	0.004	0.0018166
30	1.8917	1.9029	1.9208	0.0079149	1.8917	1.9031	1.9213	0.0077366	-0.0025	0.00021	0.0026	0.001382
50	1.8812	1.8976	1.9108	0.0084626	1.8817	1.8991	1.9118	0.0086461	-0.0091	0.00152	0.0121	0.0050424

Device Test: 22.23 LEVEL|SINK/SS_TR/14////@R_SS_DISCHARGE

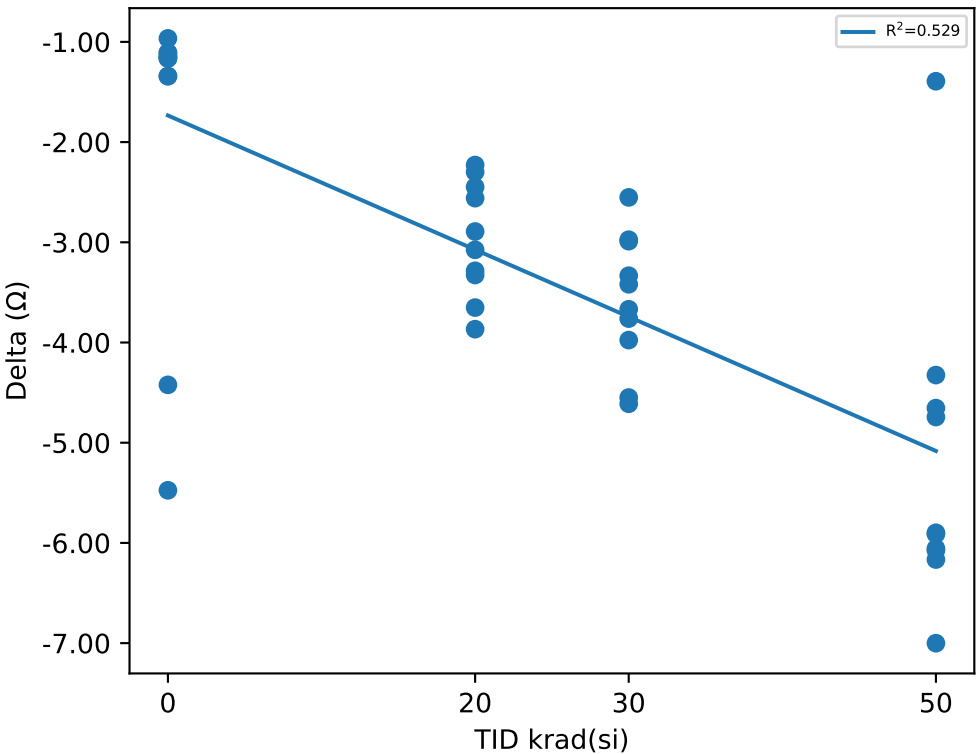
TID vs Result Stats



Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	420.84	416.42	-4.4225
516	0	CORRELATION	421.22	415.74	-5.4748
721	0	CORRELATION	421.44	420.47	-0.9652
723	0	CORRELATION	422.6	421.5	-1.1077
729	0	CORRELATION	422.19	421.05	-1.1446
990	20	Unbiased	421.22	418.33	-2.8923
991	20	Unbiased	421.21	418.77	-2.4474
992	20	Unbiased	414.87	412.64	-2.229
993	20	Unbiased	416.67	414.37	-2.2984
994	20	Unbiased	418.36	415.8	-2.5594
995	20	Biased	418.47	415.4	-3.0749
996	20	Biased	424.31	420.65	-3.6514
997	20	Biased	425.47	422.14	-3.3262
998	20	Biased	428.24	424.37	-3.8669
999	20	Biased	422.17	418.88	-3.2843
1020	30	Unbiased	419.89	416.91	-2.9741
1021	30	Unbiased	422.37	419.04	-3.3334
1022	30	Unbiased	422.87	418.9	-3.9759
1023	30	Unbiased	421.34	416.79	-4.5491
1024	30	Unbiased	421.16	416.55	-4.6112
1025	30	Biased	419.95	417.4	-2.5518
1026	30	Biased	421.8	418.81	-2.9888
1027	30	Biased	419.6	415.84	-3.7613
1028	30	Biased	419.86	416.44	-3.4189
1029	30	Biased	424.8	421.14	-3.6682
1030	50	Unbiased	421.9	415.73	-6.1657
1031	50	Unbiased	419.73	413.83	-5.8989
1032	50	Unbiased	419	412.92	-6.0751
1033	50	Unbiased	420.06	414.01	-6.0552
1034	50	Unbiased	421.29	415.38	-5.9114
1035	50	Biased-84Hr-Anneal	421.73	417.07	-4.6544
1036	50	Biased-84Hr-Anneal	420.24	415.92	-4.3249
1037	50	Biased-84Hr-Anneal	421.49	416.75	-4.7435
1038	50	Biased-84Hr-Anneal	422.66	415.66	-7.0006
1039	50	Biased-84Hr-Anneal	419.68	418.29	-1.3927

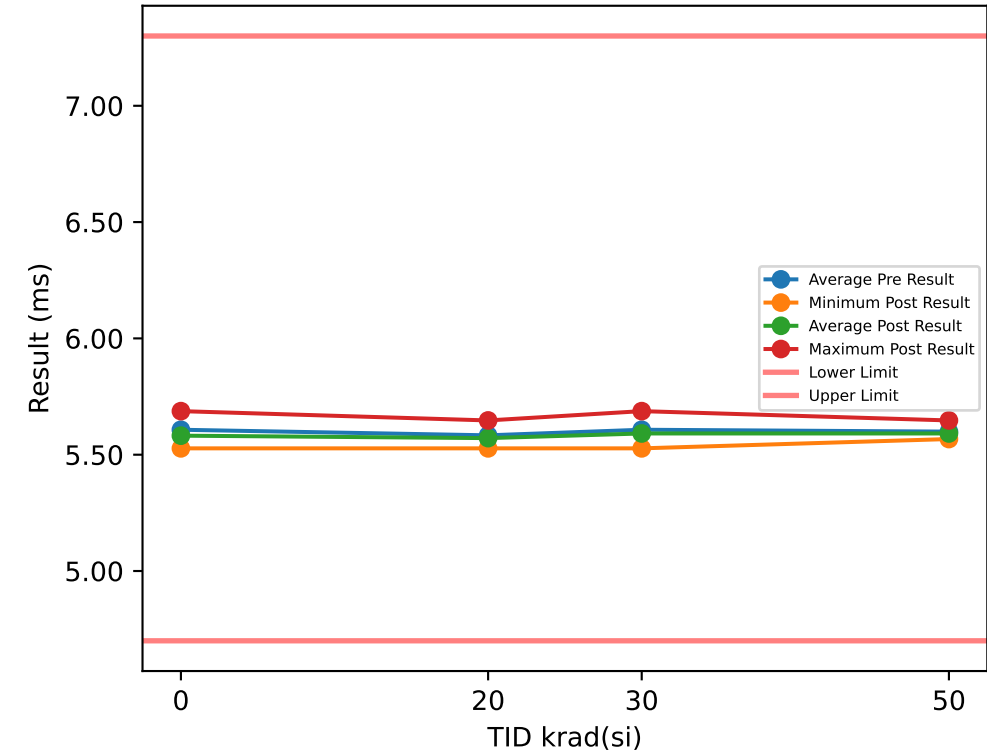
TID vs Post - Pre Exposure Delta



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	420.84	421.66	422.6	0.72197	415.74	419.04	421.5	2.7316	-5.4748	-2.623	-0.9652	2.1564
20	414.87	421.1	428.24	4.1413	412.64	418.14	424.37	3.6454	-3.8669	-2.963	-2.229	0.57279
30	419.6	421.36	424.8	1.6638	415.84	417.78	421.14	1.6365	-4.6112	-3.5833	-2.5518	0.67168
50	419	420.78	422.66	1.1895	412.92	415.56	418.29	1.6231	-7.0006	-5.2222	-1.3927	1.5786

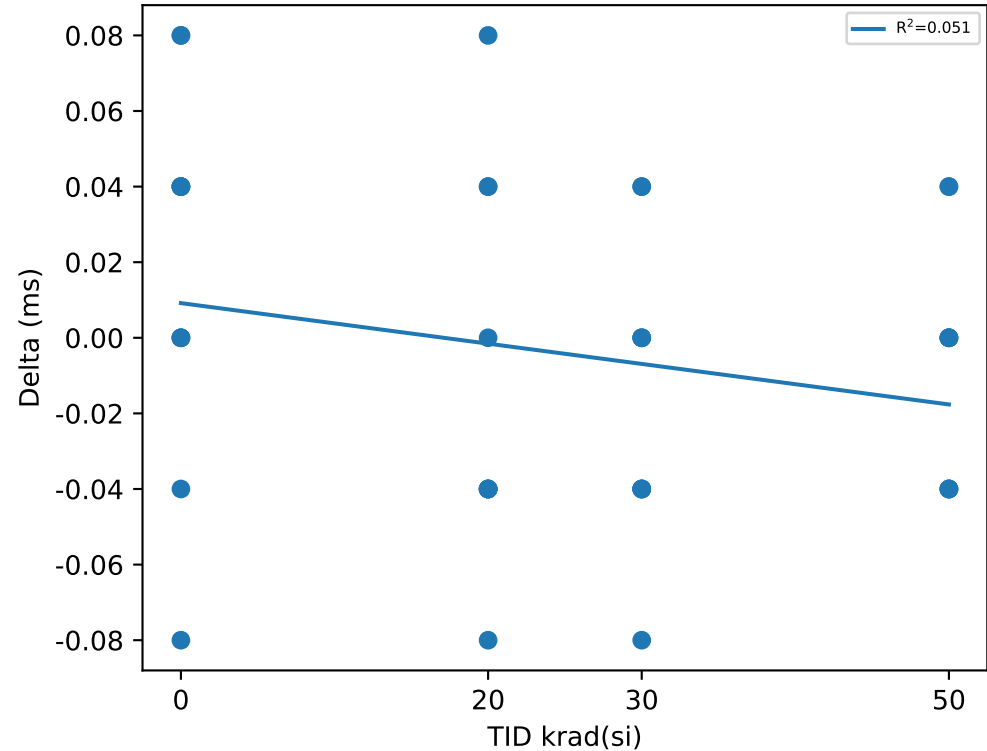
TID vs Result Stats



Test Results (Lower Limit = 4.7, Upper Limit = 7.3 (ms))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.6873	5.6873	0
516	0	CORRELATION	5.6473	5.6073	-0.04
721	0	CORRELATION	5.6473	5.5673	-0.08
723	0	CORRELATION	5.4873	5.5673	0.08
729	0	CORRELATION	5.5673	5.6073	0.04
990	20	Unbiased	5.6073	5.5673	-0.04
991	20	Unbiased	5.6073	5.5673	-0.04
992	20	Unbiased	5.5273	5.5673	0.04
993	20	Unbiased	5.6073	5.5273	-0.08
994	20	Unbiased	5.5273	5.5673	0.04
995	20	Biased	5.5673	5.5673	0
996	20	Biased	5.6873	5.6473	-0.04
997	20	Biased	5.6073	5.5673	-0.04
998	20	Biased	5.4873	5.5673	0.08
999	20	Biased	5.6073	5.5673	-0.04
1020	30	Unbiased	5.6873	5.6873	0
1021	30	Unbiased	5.6873	5.6473	-0.04
1022	30	Unbiased	5.5273	5.5273	0
1023	30	Unbiased	5.6073	5.5673	-0.04
1024	30	Unbiased	5.5673	5.6073	0.04
1025	30	Biased	5.6473	5.5673	-0.08
1026	30	Biased	5.6073	5.5673	-0.04
1027	30	Biased	5.5273	5.5273	0
1028	30	Biased	5.5673	5.5273	-0.04
1029	30	Biased	5.6473	5.6873	0.04
1030	50	Unbiased	5.6073	5.5673	-0.04
1031	50	Unbiased	5.6073	5.6073	0
1032	50	Unbiased	5.6073	5.5673	-0.04
1033	50	Unbiased	5.5273	5.5673	0.04
1034	50	Unbiased	5.6073	5.5673	-0.04
1035	50	Biased-84Hr-Anneal	5.6073	5.6073	0
1036	50	Biased-84Hr-Anneal	5.5673	5.5673	0
1037	50	Biased-84Hr-Anneal	5.5673	5.5673	0
1038	50	Biased-84Hr-Anneal	5.6073	5.6473	0.04
1039	50	Biased-84Hr-Anneal	5.6873	5.6473	-0.04

TID vs Post - Pre Exposure Delta

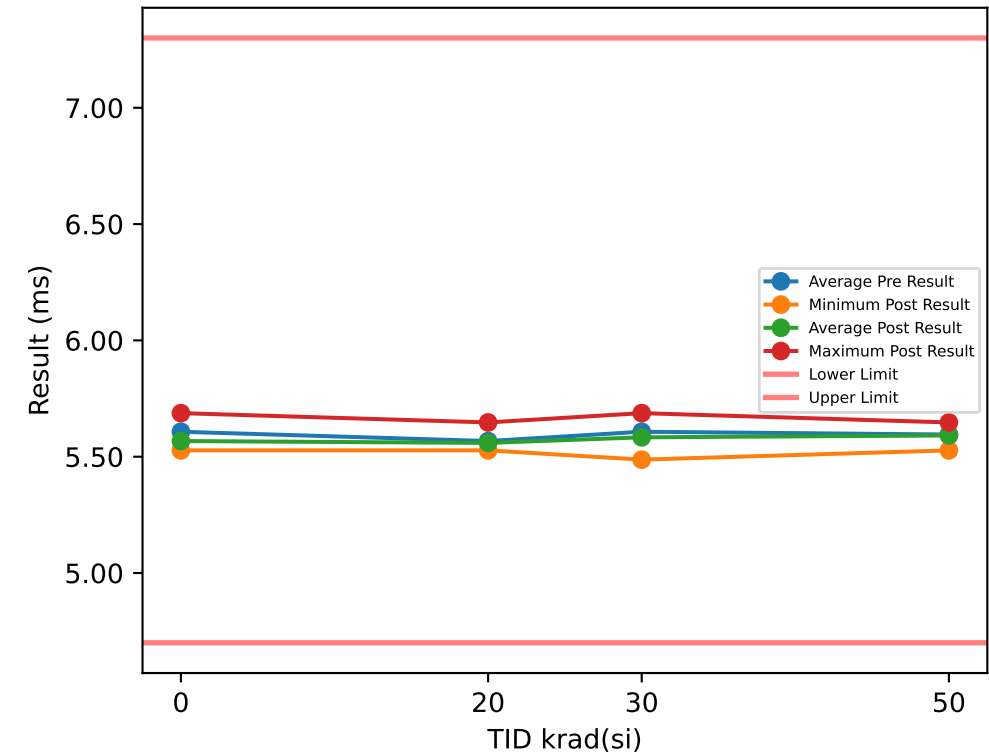


Test Statistics (ms)

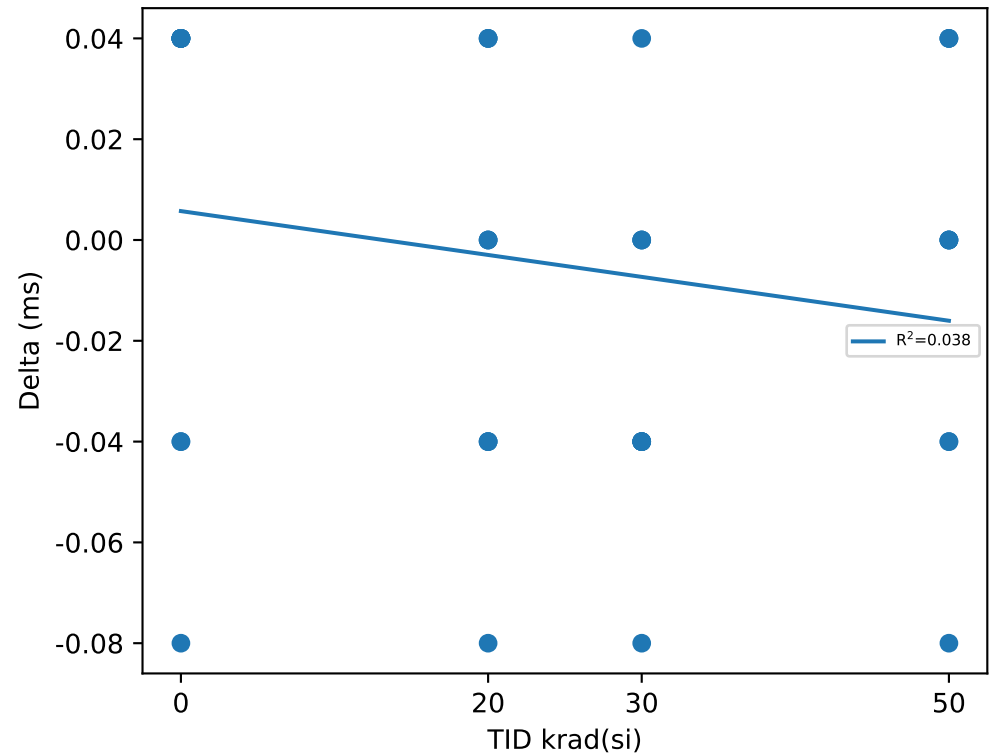
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.4873	5.6073	5.6873	0.08	5.5673	5.6073	5.6873	0.04899	-0.08	0	0.08	0.063246
20	5.4873	5.5833	5.6873	0.057194	5.5273	5.5713	5.6473	0.029515	-0.08	-0.012	0.08	0.050067
30	5.5273	5.6073	5.6873	0.059628	5.5273	5.5913	5.6873	0.063105	-0.08	-0.016	0.04	0.038644
50	5.5273	5.5993	5.6873	0.041312	5.5673	5.5913	5.6473	0.033731	-0.04	-0.008	0.04	0.031552

Device Test: 22.5 TIMING|STARTUP/SS_TR/4.5////@T_SS_22NF

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 4.7, Upper Limit = 7.3 (ms))

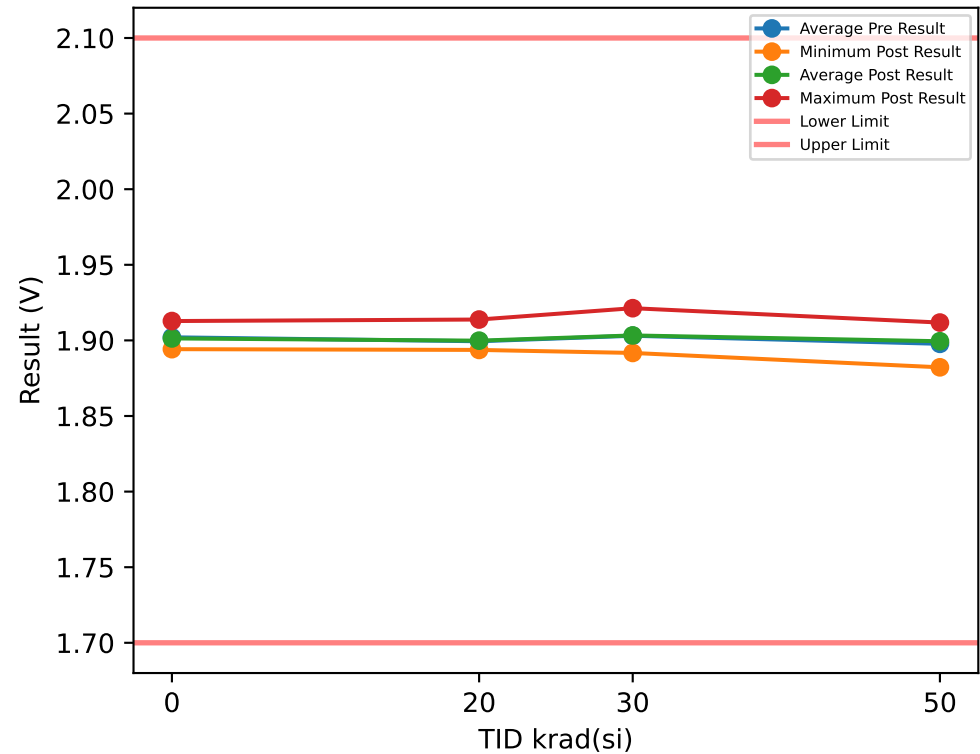
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.7273	5.6873	-0.04
516	0	CORRELATION	5.6473	5.5673	-0.08
721	0	CORRELATION	5.6473	5.6073	-0.04
723	0	CORRELATION	5.4873	5.5273	0.04
729	0	CORRELATION	5.5273	5.5673	0.04
990	20	Unbiased	5.5673	5.5673	0
991	20	Unbiased	5.6073	5.5673	-0.04
992	20	Unbiased	5.4873	5.5273	0.04
993	20	Unbiased	5.5673	5.5273	-0.04
994	20	Unbiased	5.5273	5.5673	0.04
995	20	Biased	5.5673	5.5673	0
996	20	Biased	5.6473	5.6473	0
997	20	Biased	5.6073	5.5673	-0.04
998	20	Biased	5.4873	5.5273	0.04
999	20	Biased	5.6073	5.5273	-0.08
1020	30	Unbiased	5.6873	5.6873	0
1021	30	Unbiased	5.6873	5.6473	-0.04
1022	30	Unbiased	5.5273	5.4873	-0.04
1023	30	Unbiased	5.6073	5.5673	-0.04
1024	30	Unbiased	5.5673	5.6073	0.04
1025	30	Biased	5.6473	5.5673	-0.08
1026	30	Biased	5.6073	5.5673	-0.04
1027	30	Biased	5.5273	5.5273	0
1028	30	Biased	5.5673	5.5273	-0.04
1029	30	Biased	5.6473	5.6473	0
1030	50	Unbiased	5.6073	5.5273	-0.08
1031	50	Unbiased	5.6073	5.6473	0.04
1032	50	Unbiased	5.6073	5.5673	-0.04
1033	50	Unbiased	5.5273	5.5673	0.04
1034	50	Unbiased	5.5673	5.5673	0
1035	50	Biased-84Hr-Anneal	5.6073	5.6073	0
1036	50	Biased-84Hr-Anneal	5.5673	5.5673	0
1037	50	Biased-84Hr-Anneal	5.5673	5.5673	0
1038	50	Biased-84Hr-Anneal	5.6073	5.6473	0.04
1039	50	Biased-84Hr-Anneal	5.6873	5.6473	-0.04

Test Statistics (ms)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.4873	5.6073	5.7273	0.09798	5.5273	5.5913	5.6873	0.060663	-0.08	-0.016	0.04	0.053666
20	5.4873	5.5673	5.6473	0.053333	5.5273	5.5593	5.6473	0.036757	-0.08	-0.008	0.04	0.041312
30	5.5273	5.6073	5.6873	0.059628	5.4873	5.5833	5.6873	0.063105	-0.08	-0.024	0.04	0.033731
50	5.5273	5.5953	5.6873	0.042374	5.5273	5.5913	5.6473	0.042999	-0.08	-0.004	0.04	0.039777

Device Test: 22.8 LEVEL|RISE/COMP/5////@V_COMP_SD

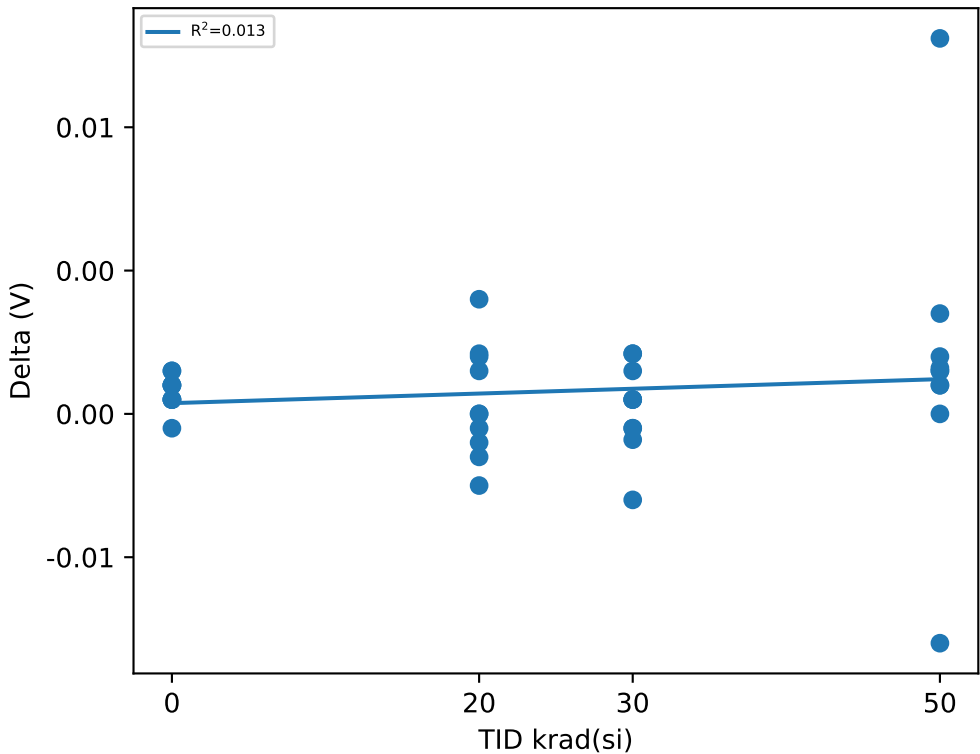
TID vs Result Stats



Test Results (Lower Limit = 1.7, Upper Limit = 2.1 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.9113	1.9128	0.0015
516	0	CORRELATION	1.9023	1.9038	0.0015
721	0	CORRELATION	1.8982	1.8977	-0.0005
723	0	CORRELATION	1.9048	1.9058	0.001
729	0	CORRELATION	1.8937	1.8942	0.0005
990	20	Unbiased	1.8937	1.8937	0
991	20	Unbiased	1.9002	1.8987	-0.0015
992	20	Unbiased	1.8977	1.8967	-0.001
993	20	Unbiased	1.9063	1.9063	0
994	20	Unbiased	1.8982	1.9002	0.002
995	20	Biased	1.9123	1.9138	0.0015
996	20	Biased	1.8947	1.8942	-0.0005
997	20	Biased	1.8967	1.8942	-0.0025
998	20	Biased	1.8942	1.8982	0.004
999	20	Biased	1.9002	1.9023	0.0021
1020	30	Unbiased	1.9063	1.9033	-0.003
1021	30	Unbiased	1.9007	1.8998	-0.0009
1022	30	Unbiased	1.9078	1.9083	0.0005
1023	30	Unbiased	1.9053	1.9048	-0.0005
1024	30	Unbiased	1.9023	1.9028	0.0005
1025	30	Biased	1.9208	1.9213	0.0005
1026	30	Biased	1.8977	1.8998	0.0021
1027	30	Biased	1.8998	1.9013	0.0015
1028	30	Biased	1.8977	1.8998	0.0021
1029	30	Biased	1.8922	1.8917	-0.0005
1030	50	Unbiased	1.8932	1.8947	0.0015
1031	50	Unbiased	1.8927	1.8962	0.0035
1032	50	Unbiased	1.9007	1.9023	0.0016
1033	50	Unbiased	1.8822	1.8822	0
1034	50	Unbiased	1.8982	1.9002	0.002
1035	50	Biased-84Hr-Anneal	1.9108	1.9118	0.001
1036	50	Biased-84Hr-Anneal	1.9023	1.9038	0.0015
1037	50	Biased-84Hr-Anneal	1.8922	1.8932	0.001
1038	50	Biased-84Hr-Anneal	1.8977	1.9108	0.0131
1039	50	Biased-84Hr-Anneal	1.9073	1.8993	-0.008

TID vs Post - Pre Exposure Delta

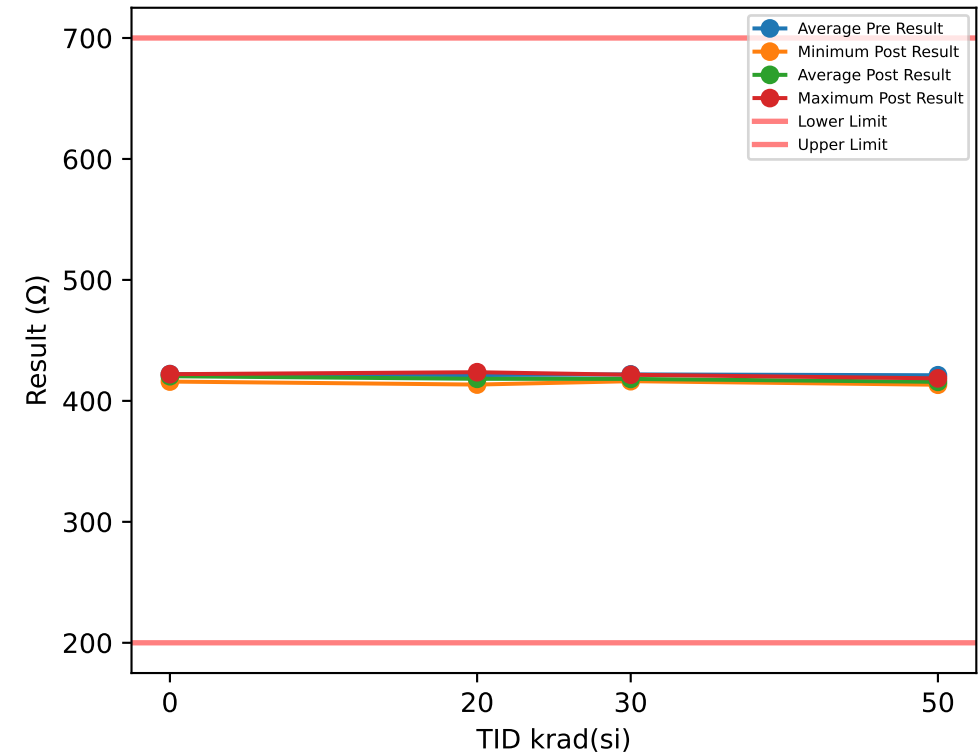


Test Statistics (V)

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	1.8937	1.9021	1.9113	0.0066658	1.8942	1.9029	1.9128	0.0072449	-0.0005	0.0008	0.0015	0.00083666
20	1.8937	1.8994	1.9123	0.0058551	1.8937	1.8998	1.9138	0.0063066	-0.0025	0.00041	0.004	0.0019644
30	1.8922	1.9031	1.9208	0.0077808	1.8917	1.9033	1.9213	0.0076508	-0.003	0.00023	0.0021	0.0015492
50	1.8822	1.8977	1.9108	0.0082322	1.8822	1.8994	1.9118	0.0086841	-0.008	0.00172	0.0131	0.0050699

Device Test: 22.9 LEVEL|SINK/SS_TR/5////@R_SS_DISCHARGE

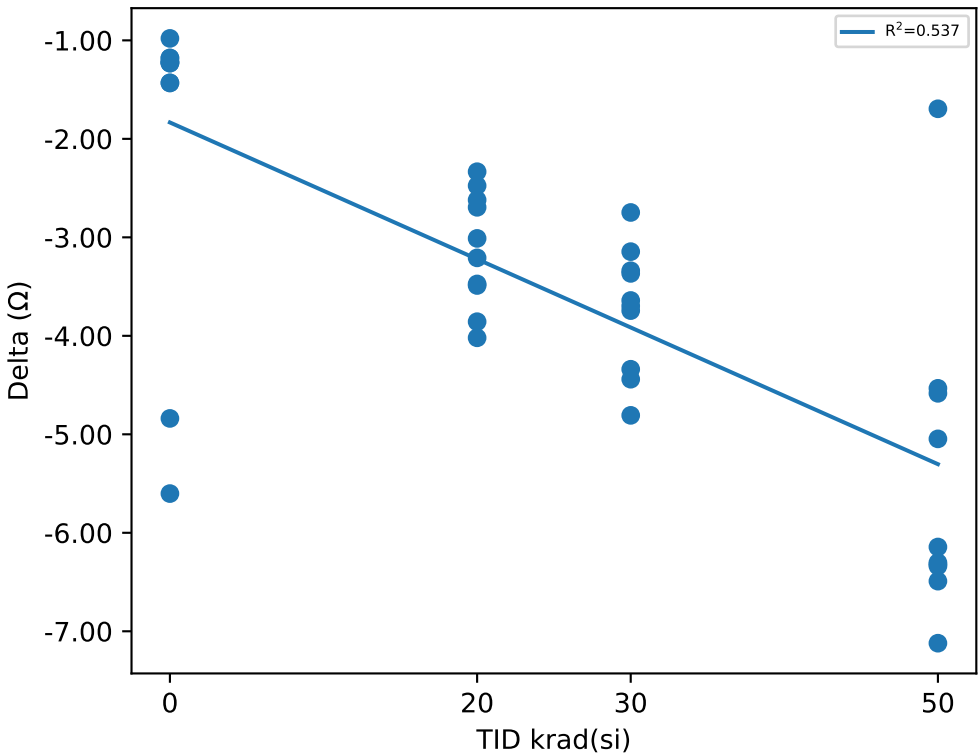
TID vs Result Stats



Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	421.85	417.01	-4.8386
516	0	CORRELATION	421.57	415.97	-5.6018
721	0	CORRELATION	422.11	421.13	-0.98
723	0	CORRELATION	423.24	422.06	-1.1791
729	0	CORRELATION	421.82	420.59	-1.2306
990	20	Unbiased	420.93	417.92	-3.0108
991	20	Unbiased	421.53	418.91	-2.6202
992	20	Unbiased	415.96	413.49	-2.4756
993	20	Unbiased	417.06	414.73	-2.3336
994	20	Unbiased	418.42	415.73	-2.6951
995	20	Biased	418.67	415.46	-3.2084
996	20	Biased	424.67	420.82	-3.8565
997	20	Biased	425.72	422.25	-3.4732
998	20	Biased	427.72	423.7	-4.0201
999	20	Biased	422.87	419.38	-3.4889
1020	30	Unbiased	420.1	416.76	-3.3391
1021	30	Unbiased	422.79	419.42	-3.3661
1022	30	Unbiased	422.81	418.47	-4.3394
1023	30	Unbiased	421.78	417.34	-4.4405
1024	30	Unbiased	422.4	417.6	-4.8075
1025	30	Biased	421	418.25	-2.7474
1026	30	Biased	421.91	418.76	-3.1452
1027	30	Biased	420.91	417.16	-3.7439
1028	30	Biased	419.92	416.27	-3.6411
1029	30	Biased	425.28	421.59	-3.6968
1030	50	Unbiased	422.39	415.9	-6.491
1031	50	Unbiased	420.5	414.16	-6.3375
1032	50	Unbiased	420.01	413.69	-6.3211
1033	50	Unbiased	419.65	413.34	-6.3027
1034	50	Unbiased	420.75	414.6	-6.1443
1035	50	Biased-84Hr-Anneal	422.19	417.6	-4.5838
1036	50	Biased-84Hr-Anneal	421.13	416.6	-4.533
1037	50	Biased-84Hr-Anneal	421.7	416.65	-5.0463
1038	50	Biased-84Hr-Anneal	423.3	416.18	-7.121
1039	50	Biased-84Hr-Anneal	420.31	418.61	-1.6947

TID vs Post - Pre Exposure Delta

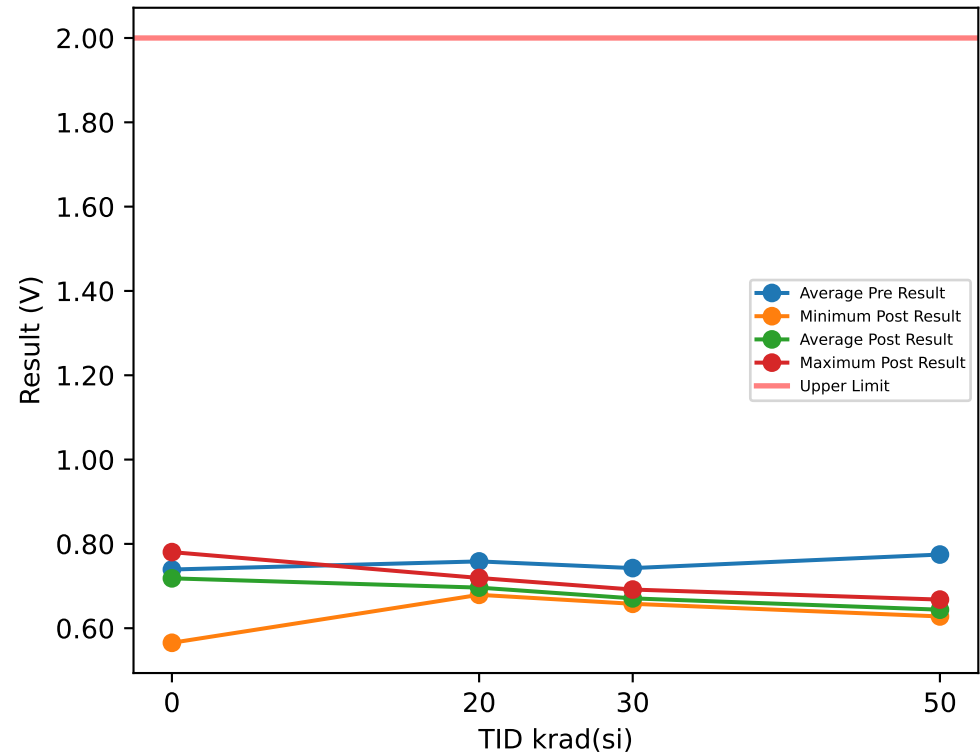


Test Statistics (Ω)

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	421.57	422.12	423.24	0.65644	415.97	419.35	422.06	2.6909	-5.6018	-2.766	-0.98	2.2585
20	415.96	421.36	427.72	3.8929	413.49	418.24	423.7	3.3881	-4.0201	-3.1182	-2.3336	0.58663
30	419.92	421.89	425.28	1.5749	416.27	418.16	421.59	1.5393	-4.8075	-3.7267	-2.7474	0.63587
50	419.65	421.19	423.3	1.1731	413.34	415.73	418.61	1.7398	-7.121	-5.4575	-1.6947	1.5807

Device Test: 23.1 VIN|VALID/PWRGD/0/////@MIN_VIN_FOR_PWRGD_OUTPUT

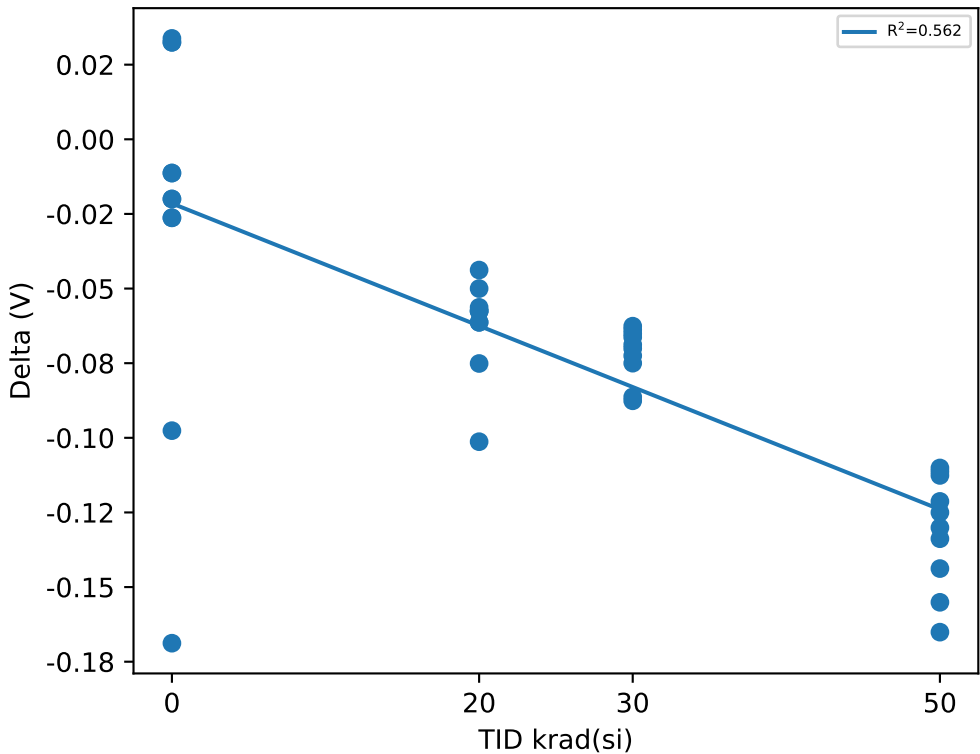
TID vs Result Stats



Test Results (Upper Limit = 2.0 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.7342	0.5654	-0.1688
516	0	CORRELATION	0.7342	0.6366	-0.0976
721	0	CORRELATION	0.7317	0.7655	0.0338
723	0	CORRELATION	0.748	0.7367	-0.0113
729	0	CORRELATION	0.748	0.728	-0.02
990	20	Unbiased	0.7817	0.6804	-0.1013
991	20	Unbiased	0.7405	0.6792	-0.0613
992	20	Unbiased	0.7617	0.7054	-0.0563
993	20	Unbiased	0.7705	0.6954	-0.0751
994	20	Unbiased	0.7717	0.7142	-0.0575
995	20	Biased	0.763	0.7192	-0.0438
996	20	Biased	0.7542	0.6967	-0.0575
997	20	Biased	0.7492	0.6992	-0.05
998	20	Biased	0.7442	0.6829	-0.0613
999	20	Biased	0.748	0.6904	-0.0576
1020	30	Unbiased	0.733	0.6629	-0.0701
1021	30	Unbiased	0.7405	0.6742	-0.0663
1022	30	Unbiased	0.7255	0.6629	-0.0626
1023	30	Unbiased	0.7455	0.6579	-0.0876
1024	30	Unbiased	0.7667	0.6917	-0.075
1025	30	Biased	0.7292	0.6604	-0.0688
1026	30	Biased	0.7255	0.6604	-0.0651
1027	30	Biased	0.763	0.6767	-0.0863
1028	30	Biased	0.7442	0.6717	-0.0725
1029	30	Biased	0.753	0.6892	-0.0638
1030	50	Unbiased	0.763	0.6417	-0.1213
1031	50	Unbiased	0.7555	0.6442	-0.1113
1032	50	Unbiased	0.758	0.6279	-0.1301
1033	50	Unbiased	0.7617	0.6279	-0.1338
1034	50	Unbiased	0.7492	0.6391	-0.1101
1035	50	Biased-84Hr-Anneal	0.833	0.6679	-0.1651
1036	50	Biased-84Hr-Anneal	0.808	0.6529	-0.1551
1037	50	Biased-84Hr-Anneal	0.7917	0.6479	-0.1438
1038	50	Biased-84Hr-Anneal	0.7605	0.6479	-0.1126
1039	50	Biased-84Hr-Anneal	0.7667	0.6417	-0.125

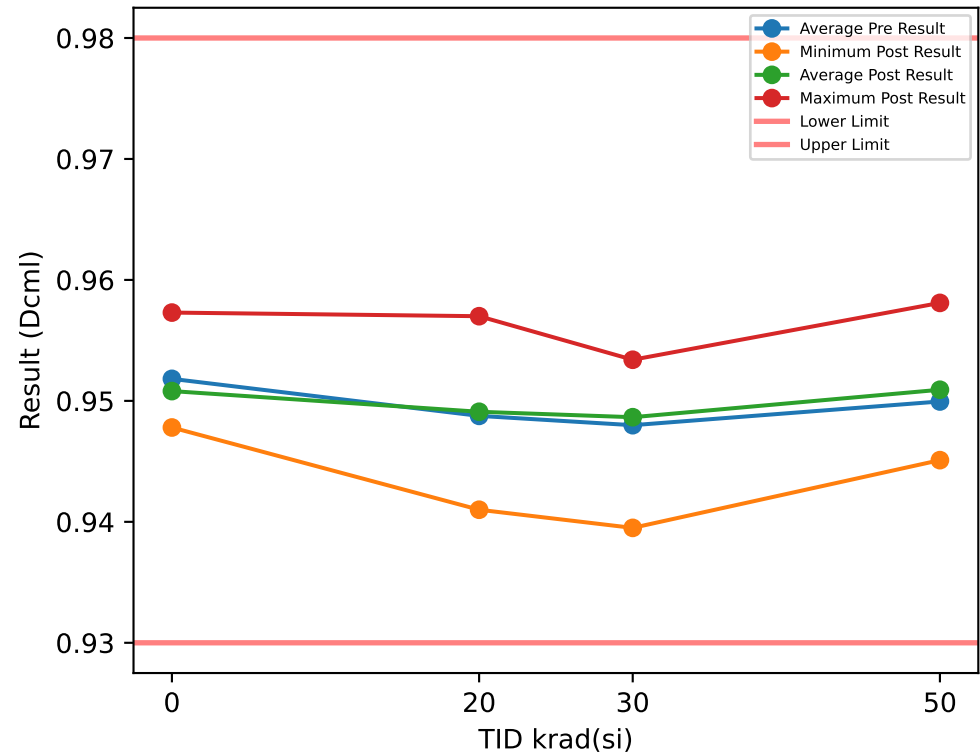
TID vs Post - Pre Exposure Delta



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	0.7317	0.73922	0.748	0.0080797	0.5654	0.68644	0.7655	0.083124	-0.1688	-0.05278	0.0338	0.080251
20	0.7405	0.75847	0.7817	0.013461	0.6792	0.6963	0.7192	0.01373	-0.1013	-0.06217	-0.0438	0.015932
30	0.7255	0.74261	0.7667	0.014821	0.6579	0.6708	0.6917	0.012157	-0.0876	-0.07181	-0.0626	0.0088587
50	0.7492	0.77473	0.833	0.027215	0.6279	0.64391	0.6679	0.011709	-0.1651	-0.13082	-0.1101	0.018884

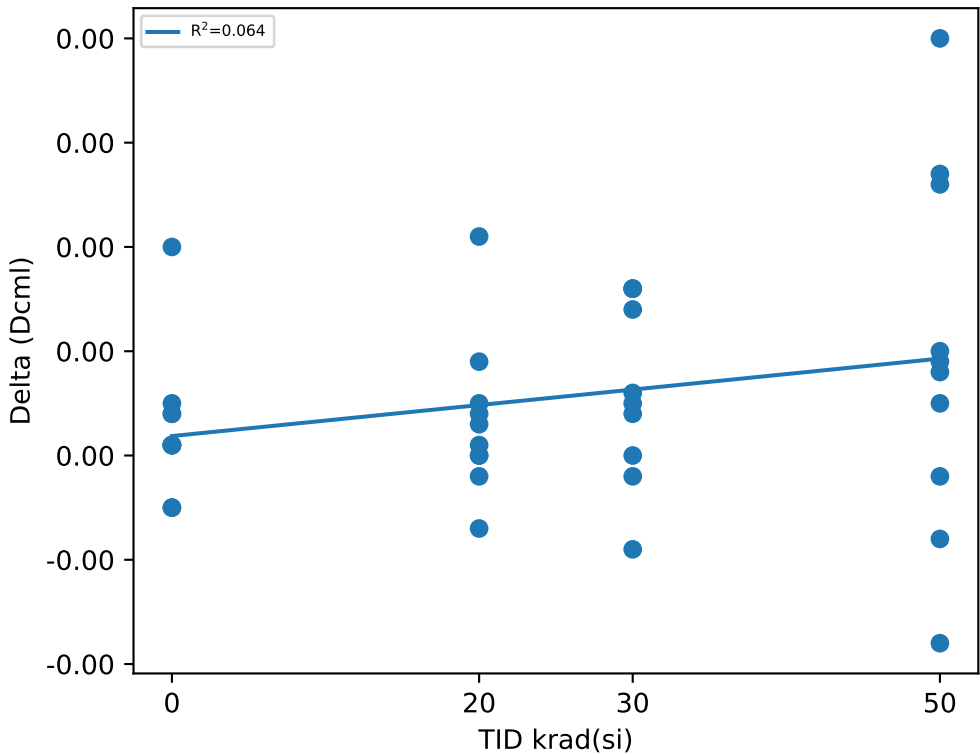
TID vs Result Stats



Test Results (Lower Limit = 0.93, Upper Limit = 0.98 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.9568	0.9573	0.0005
516	0	CORRELATION	0.9551	0.9571	0.002
721	0	CORRELATION	0.9482	0.9483	0.0001
723	0	CORRELATION	0.9477	0.9478	0.0001
729	0	CORRELATION	0.9513	0.9508	-0.0005
990	20	Unbiased	0.9484	0.9477	-0.0007
991	20	Unbiased	0.9559	0.9559	0
992	20	Unbiased	0.9479	0.9483	0.0004
993	20	Unbiased	0.9465	0.9466	0.0001
994	20	Unbiased	0.9521	0.9526	0.0005
995	20	Biased	0.9488	0.9509	0.0021
996	20	Biased	0.95	0.9498	-0.0002
997	20	Biased	0.9401	0.941	0.0009
998	20	Biased	0.9567	0.957	0.0003
999	20	Biased	0.9412	0.9412	0
1020	30	Unbiased	0.9448	0.9446	-0.0002
1021	30	Unbiased	0.9462	0.9476	0.0014
1022	30	Unbiased	0.9523	0.9514	-0.0009
1023	30	Unbiased	0.9507	0.9513	0.0006
1024	30	Unbiased	0.9518	0.9534	0.0016
1025	30	Biased	0.9518	0.9522	0.0004
1026	30	Biased	0.9505	0.9505	0
1027	30	Biased	0.9411	0.9427	0.0016
1028	30	Biased	0.9517	0.9533	0.0016
1029	30	Biased	0.939	0.9395	0.0005
1030	50	Unbiased	0.9481	0.949	0.0009
1031	50	Unbiased	0.9526	0.9553	0.0027
1032	50	Unbiased	0.9453	0.9451	-0.0002
1033	50	Unbiased	0.946	0.9486	0.0026
1034	50	Unbiased	0.9481	0.9486	0.0005
1035	50	Biased-84Hr-Anneal	0.9532	0.9514	-0.0018
1036	50	Biased-84Hr-Anneal	0.9505	0.9513	0.0008
1037	50	Biased-84Hr-Anneal	0.945	0.946	0.001
1038	50	Biased-84Hr-Anneal	0.9566	0.9558	-0.0008
1039	50	Biased-84Hr-Anneal	0.9541	0.9581	0.004

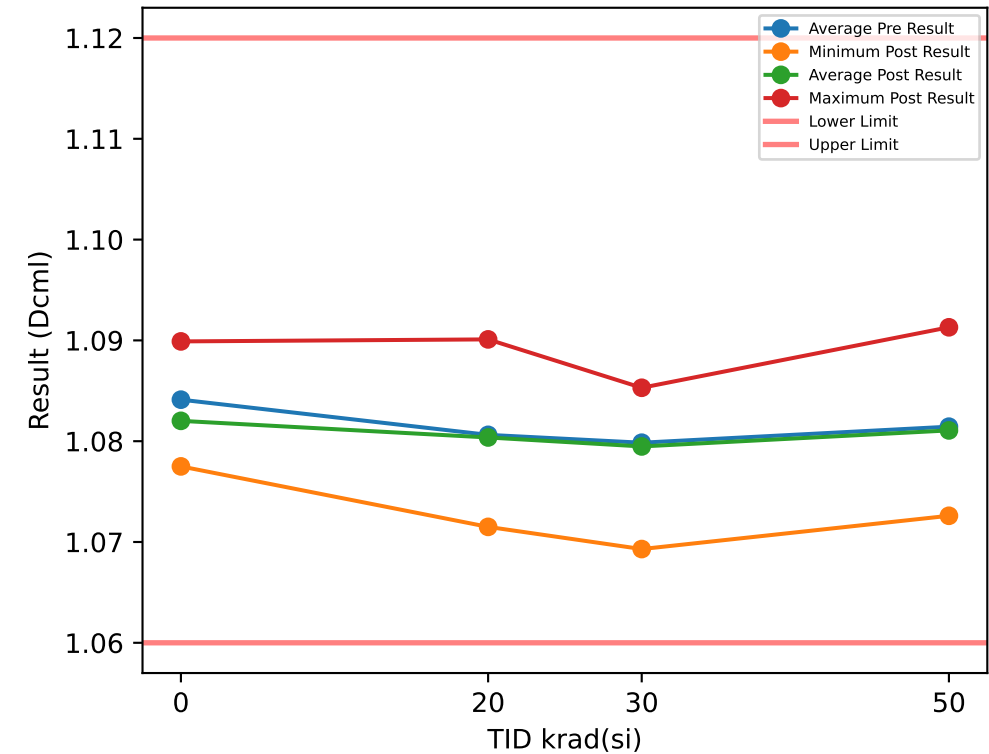
TID vs Post - Pre Exposure Delta



Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9477	0.95182	0.9568	0.0040592	0.9478	0.95226	0.9573	0.0046511	-0.0005	0.00044	0.002	0.00094234
20	0.9401	0.94876	0.9567	0.0054247	0.941	0.9491	0.957	0.0053903	-0.0007	0.00034	0.0021	0.00075307
30	0.939	0.94799	0.9523	0.0049068	0.9395	0.94865	0.9534	0.0048468	-0.0009	0.00066	0.0016	0.00087585
50	0.945	0.94995	0.9566	0.0040539	0.9451	0.95092	0.9581	0.0043135	-0.0018	0.00097	0.004	0.0017404

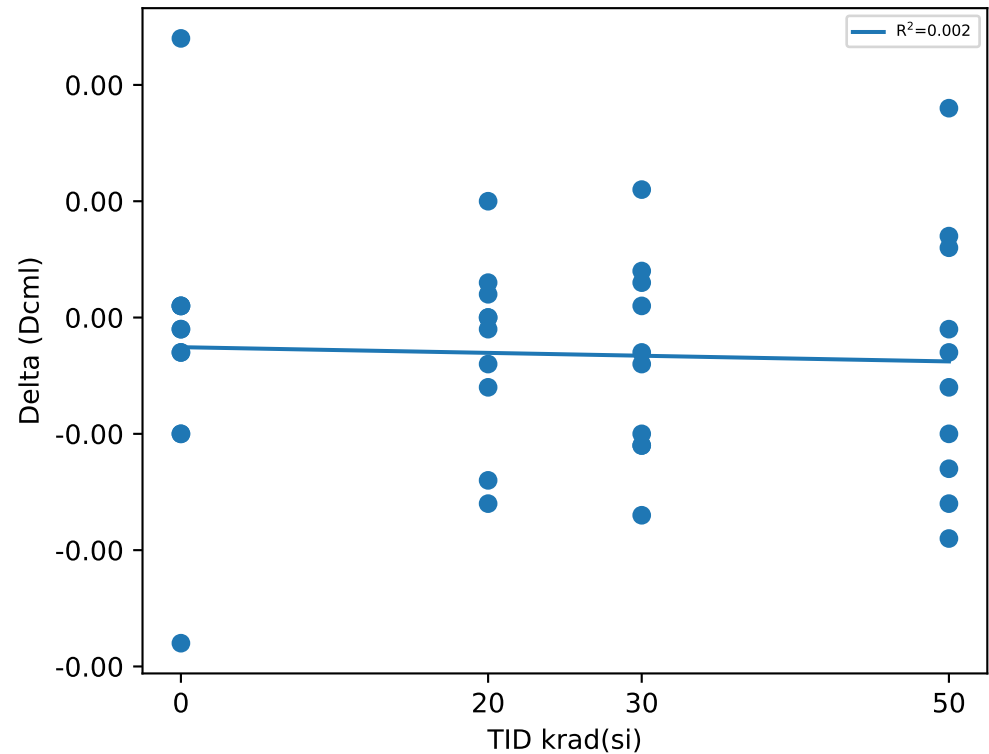
TID vs Result Stats



Test Results (Lower Limit = 1.06, Upper Limit = 1.12 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.0902	1.0874	-0.0028
516	0	CORRELATION	1.0875	1.0899	0.0024
721	0	CORRELATION	1.0814	1.0815	0.0001
723	0	CORRELATION	1.0776	1.0775	-0.0001
729	0	CORRELATION	1.0839	1.0829	-0.001
990	20	Unbiased	1.079	1.0774	-0.0016
991	20	Unbiased	1.0871	1.0867	-0.0004
992	20	Unbiased	1.0796	1.079	-0.0006
993	20	Unbiased	1.0773	1.0775	0.0002
994	20	Unbiased	1.0876	1.0875	-0.0001
995	20	Biased	1.0811	1.0811	0
996	20	Biased	1.0824	1.081	-0.0014
997	20	Biased	1.0709	1.0719	0.001
998	20	Biased	1.0898	1.0901	0.0003
999	20	Biased	1.0715	1.0715	0
1020	30	Unbiased	1.0767	1.0756	-0.0011
1021	30	Unbiased	1.0802	1.0806	0.0004
1022	30	Unbiased	1.0844	1.0827	-0.0017
1023	30	Unbiased	1.082	1.0816	-0.0004
1024	30	Unbiased	1.0842	1.0853	0.0011
1025	30	Biased	1.0849	1.0839	-0.001
1026	30	Biased	1.0809	1.0798	-0.0011
1027	30	Biased	1.0692	1.0693	0.0001
1028	30	Biased	1.0831	1.0834	0.0003
1029	30	Biased	1.0729	1.0726	-0.0003
1030	50	Unbiased	1.0775	1.0762	-0.0013
1031	50	Unbiased	1.0857	1.0851	-0.0006
1032	50	Unbiased	1.078	1.077	-0.001
1033	50	Unbiased	1.0774	1.0781	0.0007
1034	50	Unbiased	1.0802	1.0808	0.0006
1035	50	Biased-84Hr-Anneal	1.0835	1.0819	-0.0016
1036	50	Biased-84Hr-Anneal	1.0798	1.0797	-0.0001
1037	50	Biased-84Hr-Anneal	1.0729	1.0726	-0.0003
1038	50	Biased-84Hr-Anneal	1.0899	1.088	-0.0019
1039	50	Biased-84Hr-Anneal	1.0895	1.0913	0.0018

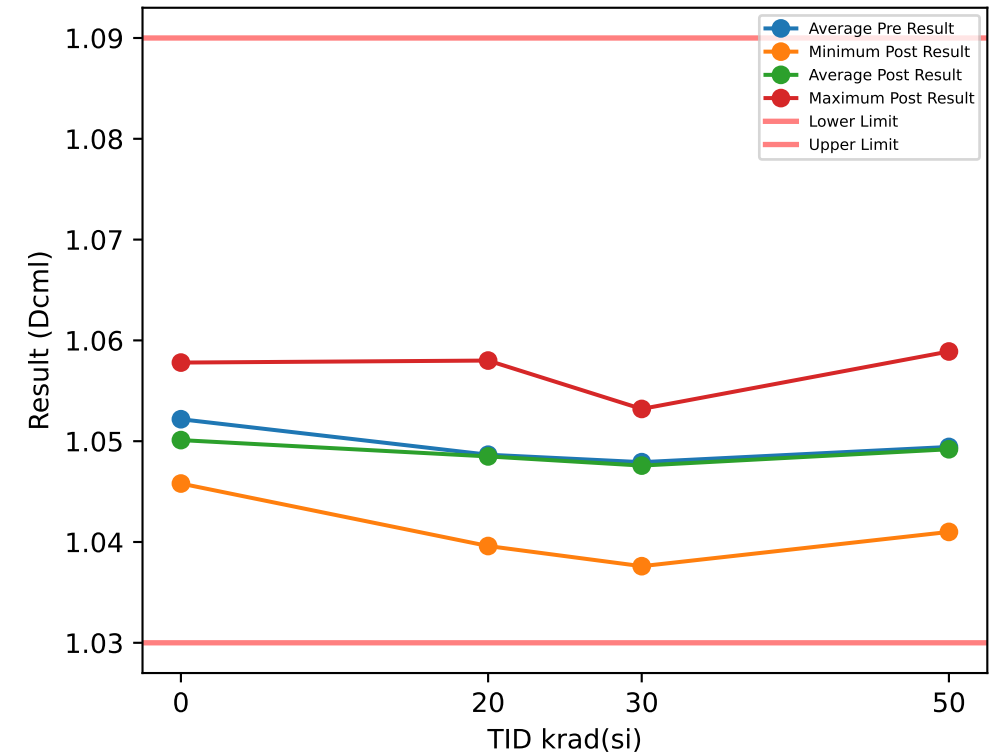
TID vs Post - Pre Exposure Delta



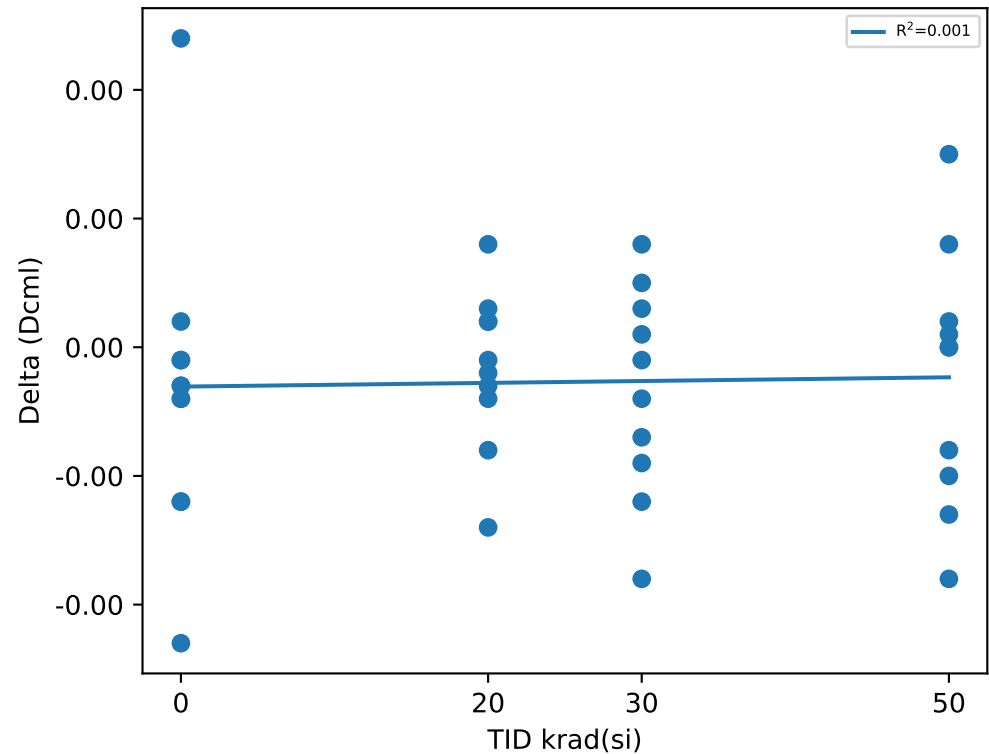
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0776	1.0841	1.0902	0.0049585	1.0775	1.0838	1.0899	0.0048978	-0.0028	-0.00028	0.0024	0.001886
20	1.0709	1.0806	1.0898	0.006418	1.0715	1.0804	1.0901	0.0062881	-0.0016	-0.00026	0.001	0.00078202
30	1.0692	1.0798	1.0849	0.0053039	1.0693	1.0795	1.0853	0.0052812	-0.0017	-0.00037	0.0011	0.0008603
50	1.0729	1.0814	1.0899	0.0055754	1.0726	1.0811	1.0913	0.0056999	-0.0019	-0.00037	0.0018	0.0011567

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.03, Upper Limit = 1.09 (Dcml))

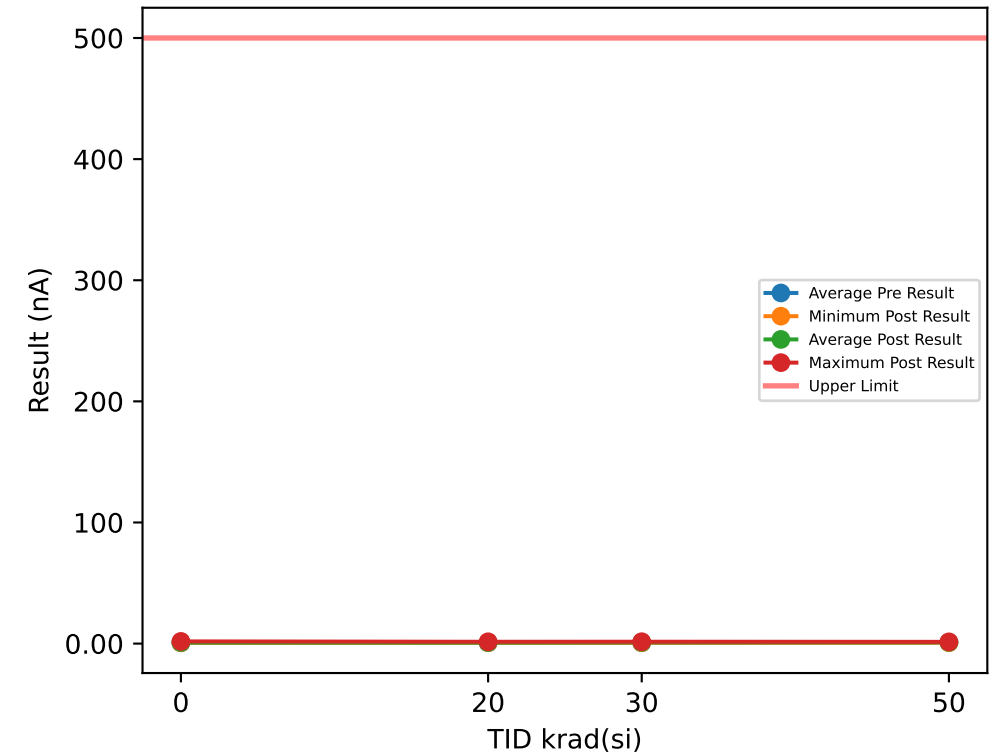
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.058	1.0557	-0.0023
516	0	CORRELATION	1.0554	1.0578	0.0024
721	0	CORRELATION	1.0495	1.0497	0.0002
723	0	CORRELATION	1.0462	1.0458	-0.0004
729	0	CORRELATION	1.0518	1.0506	-0.0012
990	20	Unbiased	1.0469	1.0455	-0.0014
991	20	Unbiased	1.055	1.0546	-0.0004
992	20	Unbiased	1.0475	1.0473	-0.0002
993	20	Unbiased	1.0456	1.0458	0.0002
994	20	Unbiased	1.0555	1.0552	-0.0003
995	20	Biased	1.0493	1.0492	-0.0001
996	20	Biased	1.0503	1.0495	-0.0008
997	20	Biased	1.0394	1.0402	0.0008
998	20	Biased	1.0577	1.058	0.0003
999	20	Biased	1.0394	1.0396	0.0002
1020	30	Unbiased	1.0447	1.0435	-0.0012
1021	30	Unbiased	1.0483	1.0486	0.0003
1022	30	Unbiased	1.0525	1.0507	-0.0018
1023	30	Unbiased	1.0499	1.0495	-0.0004
1024	30	Unbiased	1.0524	1.0532	0.0008
1025	30	Biased	1.0527	1.052	-0.0007
1026	30	Biased	1.0488	1.0479	-0.0009
1027	30	Biased	1.0375	1.0376	0.0001
1028	30	Biased	1.0512	1.0517	0.0005
1029	30	Biased	1.0412	1.0411	-0.0001
1030	50	Unbiased	1.0454	1.0446	-0.0008
1031	50	Unbiased	1.0534	1.0534	0
1032	50	Unbiased	1.0463	1.0453	-0.001
1033	50	Unbiased	1.0457	1.0465	0.0008
1034	50	Unbiased	1.0486	1.0487	0.0001
1035	50	Biased-84Hr-Anneal	1.0513	1.05	-0.0013
1036	50	Biased-84Hr-Anneal	1.0479	1.0479	0
1037	50	Biased-84Hr-Anneal	1.0408	1.041	0.0002
1038	50	Biased-84Hr-Anneal	1.0575	1.0557	-0.0018
1039	50	Biased-84Hr-Anneal	1.0574	1.0589	0.0015

Test Statistics (Dcml)

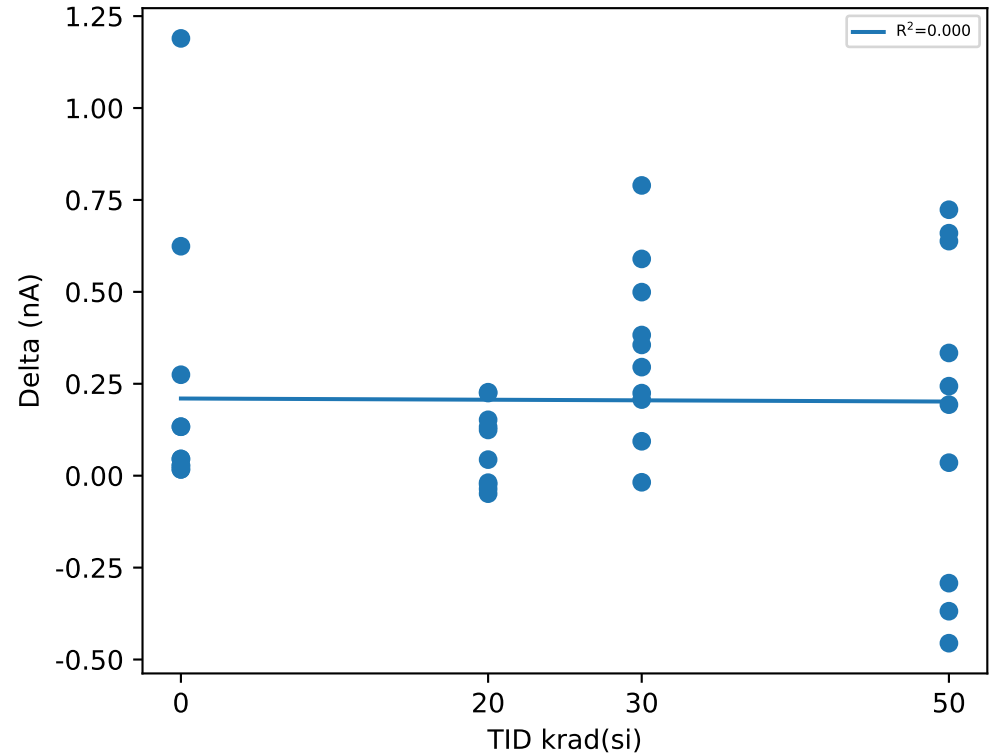
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0462	1.0522	1.058	0.0046725	1.0458	1.0519	1.0578	0.0048215	-0.0023	-0.00026	0.0024	0.0017573
20	1.0394	1.0487	1.0577	0.0062991	1.0396	1.0485	1.058	0.0061434	-0.0014	-0.00017	0.0008	0.00061653
30	1.0375	1.0479	1.0527	0.0052025	1.0376	1.0476	1.0532	0.0051736	-0.0018	-0.00034	0.0008	0.00081541
50	1.0408	1.0494	1.0575	0.00543	1.041	1.0492	1.0589	0.0054514	-0.0018	-0.00023	0.0015	0.00099894

Device Test: 23.13 LEAK|MAX/PWRGD/5////@PWRGD_OUTPUT_HIGH_LEAK

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 500.0 (nA))

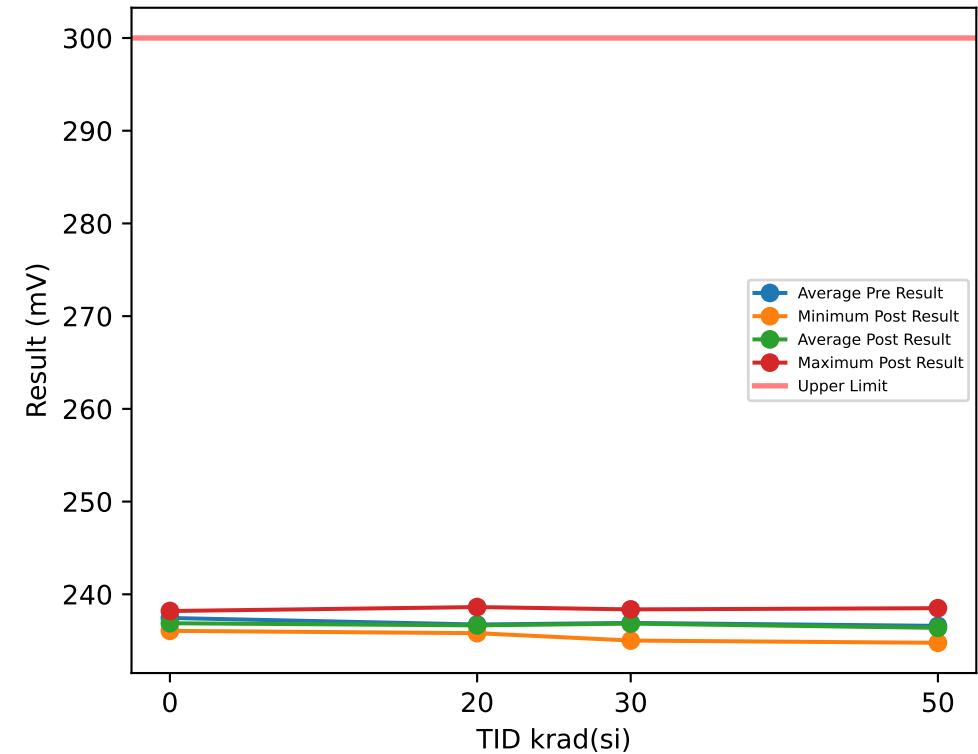
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6316	1.821	1.1894
516	0	CORRELATION	0.6598	0.9344	0.2746
721	0	CORRELATION	0.7939	1.418	0.6241
723	0	CORRELATION	0.711	0.8442	0.1332
729	0	CORRELATION	0.6581	0.6856	0.0275
990	20	Unbiased	0.627	0.8541	0.2271
991	20	Unbiased	1.3813	1.5057	0.1244
992	20	Unbiased	0.7971	0.8408	0.0437
993	20	Unbiased	0.7128	0.6768	-0.036
994	20	Unbiased	0.6301	0.7627	0.1326
995	20	Biased	0.8972	0.8782	-0.019
996	20	Biased	0.6878	0.6643	-0.0235
997	20	Biased	0.6441	0.8689	0.2248
998	20	Biased	0.8136	0.9656	0.152
999	20	Biased	0.7879	0.739	-0.0489
1020	30	Unbiased	0.822	1.1777	0.3557
1021	30	Unbiased	0.769	1.5585	0.7895
1022	30	Unbiased	0.7035	0.6856	-0.0179
1023	30	Unbiased	0.6222	0.8292	0.207
1024	30	Unbiased	0.7265	1.0218	0.2953
1025	30	Biased	0.8347	1.4243	0.5896
1026	30	Biased	0.6191	1.1184	0.4993
1027	30	Biased	0.5026	0.8852	0.3826
1028	30	Biased	0.7348	0.9594	0.2246
1029	30	Biased	0.7565	0.8501	0.0936
1030	50	Unbiased	0.8597	1.1935	0.3338
1031	50	Unbiased	0.719	0.9625	0.2435
1032	50	Unbiased	0.5973	1.3207	0.7234
1033	50	Unbiased	0.5181	1.1561	0.638
1034	50	Unbiased	1.1502	1.3434	0.1932
1035	50	Biased-84Hr-Anneal	1.179	0.7234	-0.4556
1036	50	Biased-84Hr-Anneal	0.8491	0.8845	0.0354
1037	50	Biased-84Hr-Anneal	1.2134	0.8448	-0.3686
1038	50	Biased-84Hr-Anneal	0.7774	1.437	0.6596
1039	50	Biased-84Hr-Anneal	1.2298	0.9375	-0.2923

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	0.6316	0.69088	0.7939	0.064367	0.6856	1.1406	1.821	0.46832	0.0275	0.44976	1.1894	0.47081
20	0.627	0.79789	1.3813	0.22384	0.6643	0.87561	1.5057	0.24093	-0.0489	0.07772	0.2271	0.10769
30	0.5026	0.70909	0.8347	0.102	0.6856	1.051	1.5585	0.27433	-0.0179	0.34193	0.7895	0.23888
50	0.5181	0.9093	1.2298	0.26584	0.7234	1.0803	1.437	0.24227	-0.4556	0.17104	0.7234	0.43602

Device Test: 23.14 VOL|2mA/PWRGD/5////@PWRGD_OUTPUT_LOW

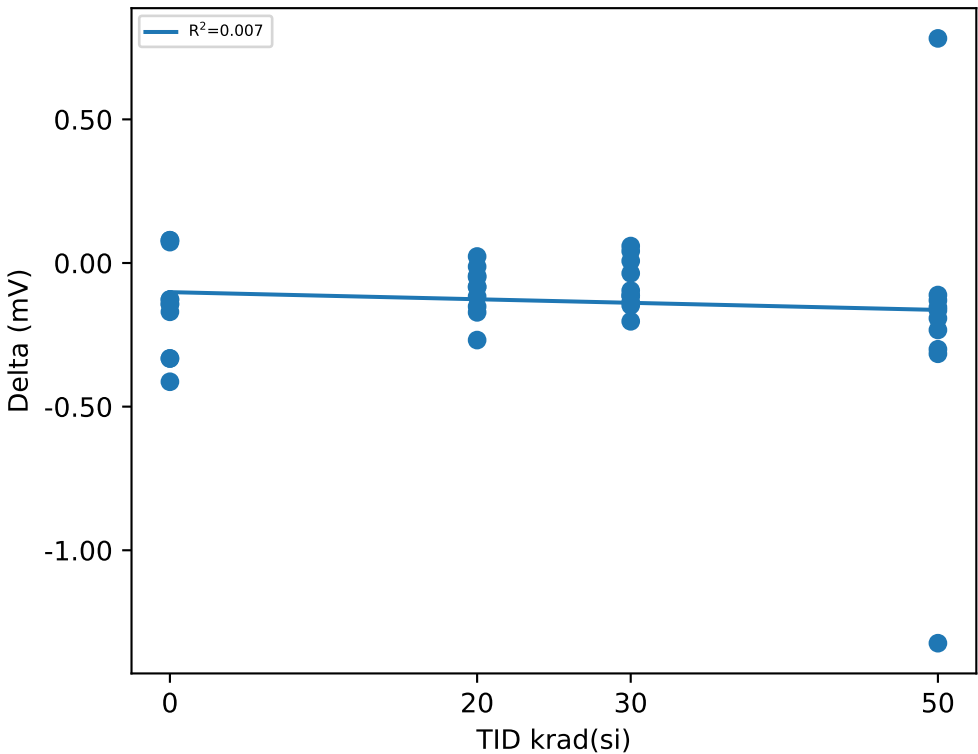
TID vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	238.61	238.2	-0.4134
516	0	CORRELATION	237.55	237.38	-0.1699
721	0	CORRELATION	237.75	237.82	0.0727
723	0	CORRELATION	236.19	236.26	0.0793
729	0	CORRELATION	237.14	236.81	-0.3323
990	20	Unbiased	237.72	237.54	-0.1718
991	20	Unbiased	235.89	235.81	-0.0833
992	20	Unbiased	236.04	236.07	0.0227
993	20	Unbiased	236.03	235.95	-0.0828
994	20	Unbiased	236.33	236.28	-0.0492
995	20	Biased	236.38	236.33	-0.045
996	20	Biased	238.63	238.62	-0.0127
997	20	Biased	237.3	237.18	-0.1165
998	20	Biased	236.25	236.1	-0.1515
999	20	Biased	236.86	236.59	-0.2683
1020	30	Unbiased	238.26	238.32	0.059
1021	30	Unbiased	236.96	237	0.0415
1022	30	Unbiased	236.41	236.26	-0.1475
1023	30	Unbiased	238.41	238.37	-0.0358
1024	30	Unbiased	235.87	235.78	-0.0959
1025	30	Biased	237.89	237.78	-0.1127
1026	30	Biased	236.85	236.71	-0.1357
1027	30	Biased	235.98	235.78	-0.203
1028	30	Biased	235.13	235.01	-0.1144
1029	30	Biased	237.37	237.38	0.0072
1030	50	Unbiased	235.52	235.32	-0.1925
1031	50	Unbiased	238.67	238.5	-0.1644
1032	50	Unbiased	235.1	234.97	-0.1298
1033	50	Unbiased	235.51	235.4	-0.1115
1034	50	Unbiased	234.92	234.77	-0.1544
1035	50	Biased-84Hr-Anneal	237.03	236.73	-0.3003
1036	50	Biased-84Hr-Anneal	237.38	237.15	-0.2331
1037	50	Biased-84Hr-Anneal	236.74	236.42	-0.316
1038	50	Biased-84Hr-Anneal	236.99	237.78	0.7819
1039	50	Biased-84Hr-Anneal	238.09	236.77	-1.3235

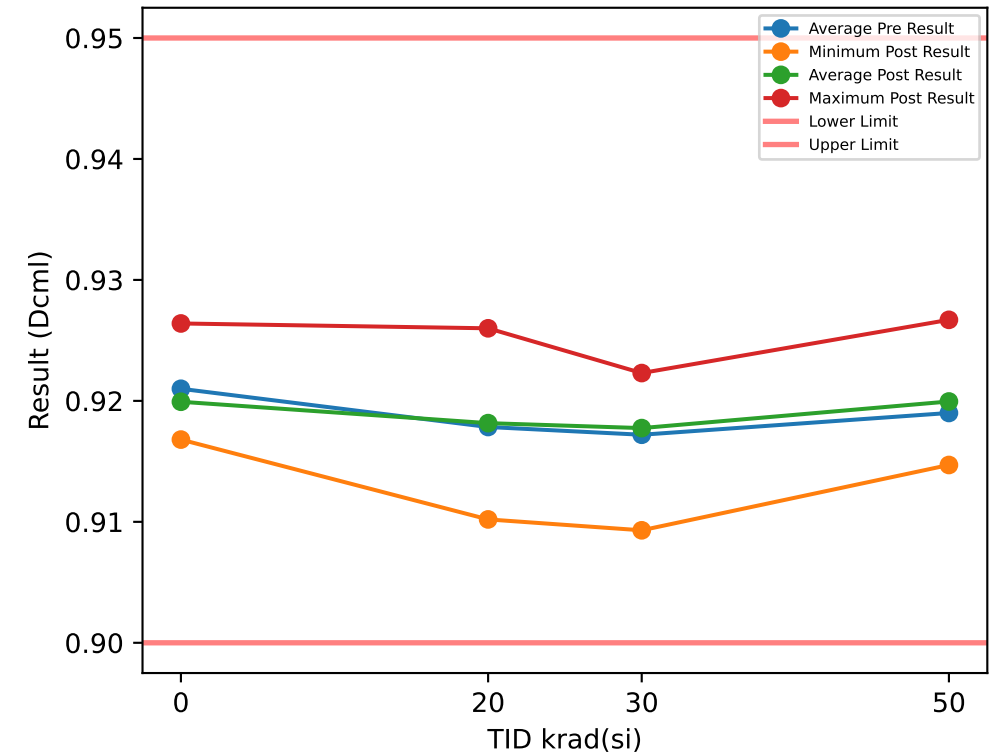
TID vs Post - Pre Exposure Delta



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	236.19	237.45	238.61	0.88662	236.26	237.29	238.2	0.77496	-0.4134	-0.15272	0.0793	0.22647
20	235.89	236.74	238.63	0.88944	235.81	236.65	238.62	0.88577	-0.2683	-0.09584	0.0227	0.085042
30	235.13	236.91	238.41	1.086	235.01	236.84	238.37	1.139	-0.203	-0.07373	0.059	0.087268
50	234.92	236.6	238.67	1.2863	234.77	236.38	238.5	1.2464	-1.3235	-0.21436	0.7819	0.50167

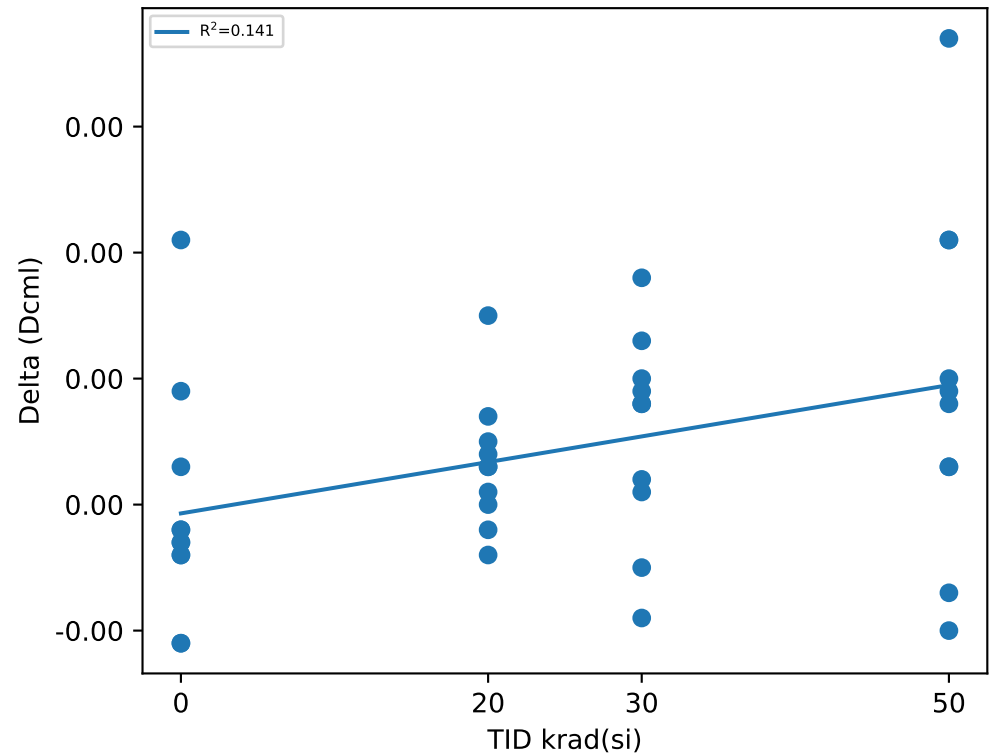
TID vs Result Stats



Test Results (Lower Limit = 0.9, Upper Limit = 0.95 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.9255	0.9264	0.0009
516	0	CORRELATION	0.924	0.9261	0.0021
721	0	CORRELATION	0.9172	0.9175	0.0003
723	0	CORRELATION	0.9172	0.917	-0.0002
729	0	CORRELATION	0.9211	0.92	-0.0011
990	20	Unbiased	0.9173	0.9169	-0.0004
991	20	Unbiased	0.9247	0.9248	0.0001
992	20	Unbiased	0.9169	0.9174	0.0005
993	20	Unbiased	0.9154	0.9158	0.0004
994	20	Unbiased	0.9213	0.9216	0.0003
995	20	Biased	0.9181	0.9196	0.0015
996	20	Biased	0.9189	0.9187	-0.0002
997	20	Biased	0.9095	0.9102	0.0007
998	20	Biased	0.9257	0.926	0.0003
999	20	Biased	0.9106	0.9106	0
1020	30	Unbiased	0.9143	0.9138	-0.0005
1021	30	Unbiased	0.9151	0.9164	0.0013
1022	30	Unbiased	0.9213	0.9204	-0.0009
1023	30	Unbiased	0.9196	0.9204	0.0008
1024	30	Unbiased	0.9214	0.9223	0.0009
1025	30	Biased	0.9209	0.921	0.0001
1026	30	Biased	0.9193	0.9195	0.0002
1027	30	Biased	0.9105	0.9123	0.0018
1028	30	Biased	0.9213	0.9221	0.0008
1029	30	Biased	0.9083	0.9093	0.001
1030	50	Unbiased	0.9173	0.9181	0.0008
1031	50	Unbiased	0.9217	0.9238	0.0021
1032	50	Unbiased	0.9144	0.9147	0.0003
1033	50	Unbiased	0.9154	0.9175	0.0021
1034	50	Unbiased	0.917	0.9173	0.0003
1035	50	Biased-84Hr-Anneal	0.9221	0.9214	-0.0007
1036	50	Biased-84Hr-Anneal	0.9194	0.9203	0.0009
1037	50	Biased-84Hr-Anneal	0.9142	0.9152	0.001
1038	50	Biased-84Hr-Anneal	0.9255	0.9245	-0.001
1039	50	Biased-84Hr-Anneal	0.923	0.9267	0.0037

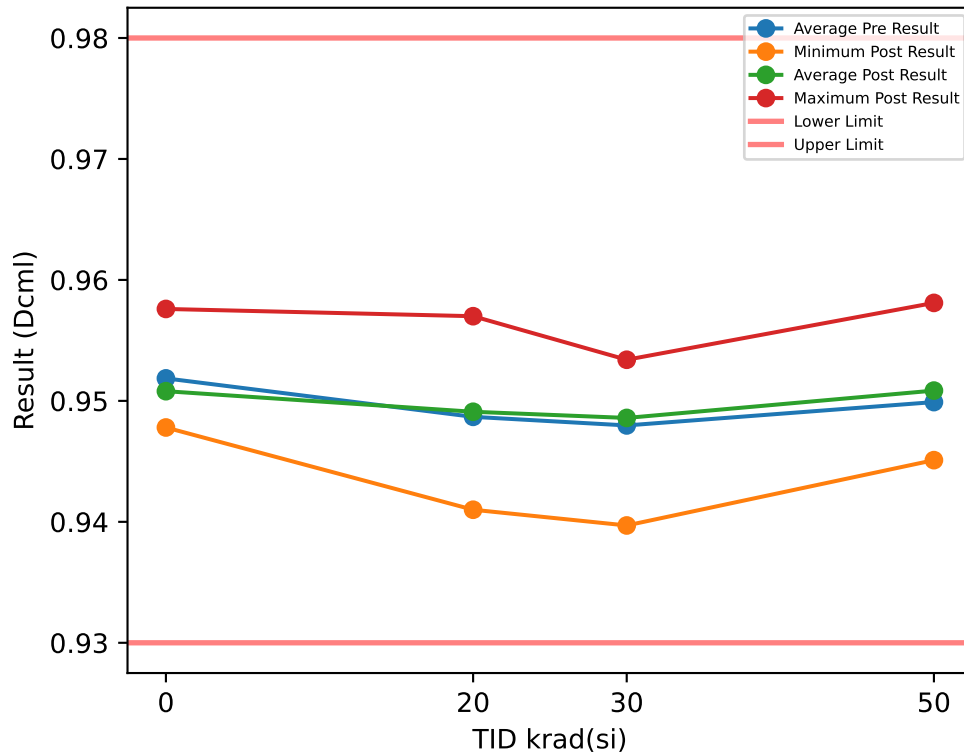
TID vs Post - Pre Exposure Delta



Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9172	0.921	0.9255	0.0038125	0.917	0.9214	0.9264	0.0045722	-0.0011	0.0004	0.0021	0.0012
20	0.9095	0.91784	0.9257	0.0052821	0.9102	0.91816	0.926	0.0052494	-0.0004	0.00032	0.0015	0.00052873
30	0.9083	0.9172	0.9214	0.0048539	0.9093	0.91775	0.9223	0.0045439	-0.0009	0.00055	0.0018	0.00082361
50	0.9142	0.919	0.9255	0.003935	0.9147	0.91995	0.9267	0.0040809	-0.001	0.00095	0.0037	0.0013986

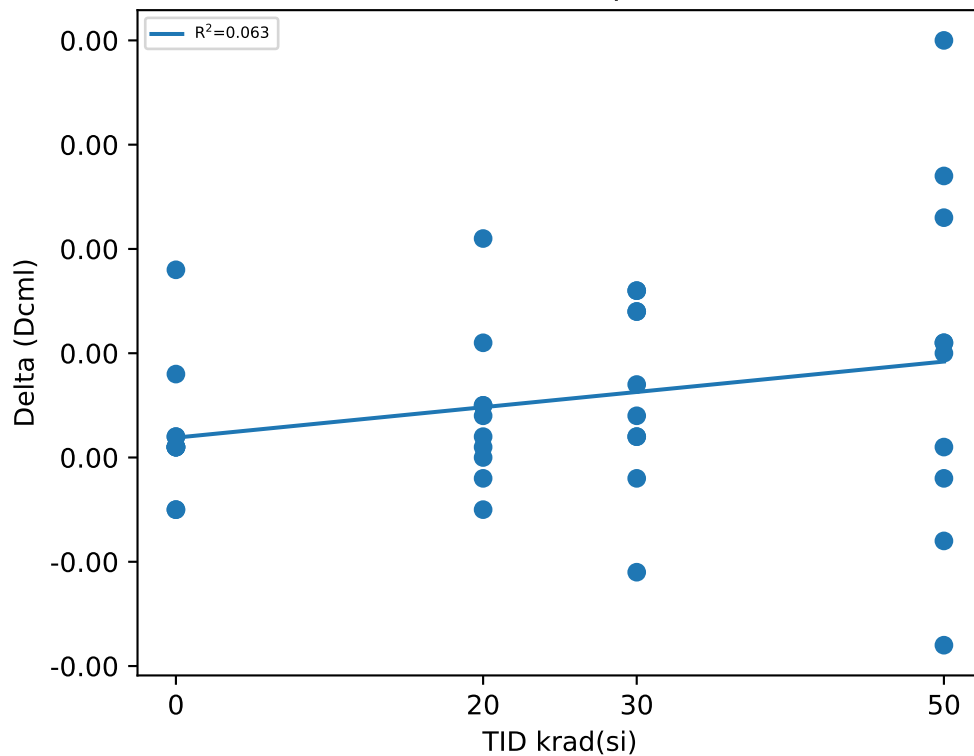
Device Test: 23.17 THRESHOLD|RISE/PWRGD/12///4011/@VSENSE VTH RISING GOOD



Test Results (Lower Limit = 0.93
Upper Limit = 0.98 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.9568	0.9576	0.0008
516	0	CORRELATION	0.9553	0.9571	0.0018
721	0	CORRELATION	0.9482	0.9483	0.0001
723	0	CORRELATION	0.9477	0.9478	0.0001
729	0	CORRELATION	0.9513	0.9508	-0.0005
990	20	Unbiased	0.9482	0.9477	-0.0005
991	20	Unbiased	0.9559	0.9559	0
992	20	Unbiased	0.9479	0.9483	0.0004
993	20	Unbiased	0.9465	0.9466	0.0001
994	20	Unbiased	0.9521	0.9526	0.0005
995	20	Biased	0.9488	0.9509	0.0021
996	20	Biased	0.95	0.9498	-0.0002
997	20	Biased	0.9399	0.941	0.0011
998	20	Biased	0.9565	0.957	0.0005
999	20	Biased	0.941	0.9412	0.0002
1020	30	Unbiased	0.9448	0.9446	-0.0002
1021	30	Unbiased	0.9462	0.9476	0.0014
1022	30	Unbiased	0.9523	0.9512	-0.0011
1023	30	Unbiased	0.9507	0.9509	0.0002
1024	30	Unbiased	0.9518	0.9534	0.0016
1025	30	Biased	0.9518	0.952	0.0002
1026	30	Biased	0.9503	0.9507	0.0004
1027	30	Biased	0.9411	0.9427	0.0016
1028	30	Biased	0.9517	0.9531	0.0014
1029	30	Biased	0.939	0.9397	0.0007
1030	50	Unbiased	0.9479	0.949	0.0011
1031	50	Unbiased	0.9526	0.9553	0.0027
1032	50	Unbiased	0.9453	0.9451	-0.0002
1033	50	Unbiased	0.946	0.9483	0.0023
1034	50	Unbiased	0.9481	0.9482	0.0001
1035	50	Biased-84Hr-Anneal	0.9532	0.9514	-0.0018
1036	50	Biased-84Hr-Anneal	0.9502	0.9513	0.0011
1037	50	Biased-84Hr-Anneal	0.945	0.946	0.001
1038	50	Biased-84Hr-Anneal	0.9566	0.9558	-0.0008
1039	50	Biased-84Hr-Anneal	0.9541	0.9581	0.004

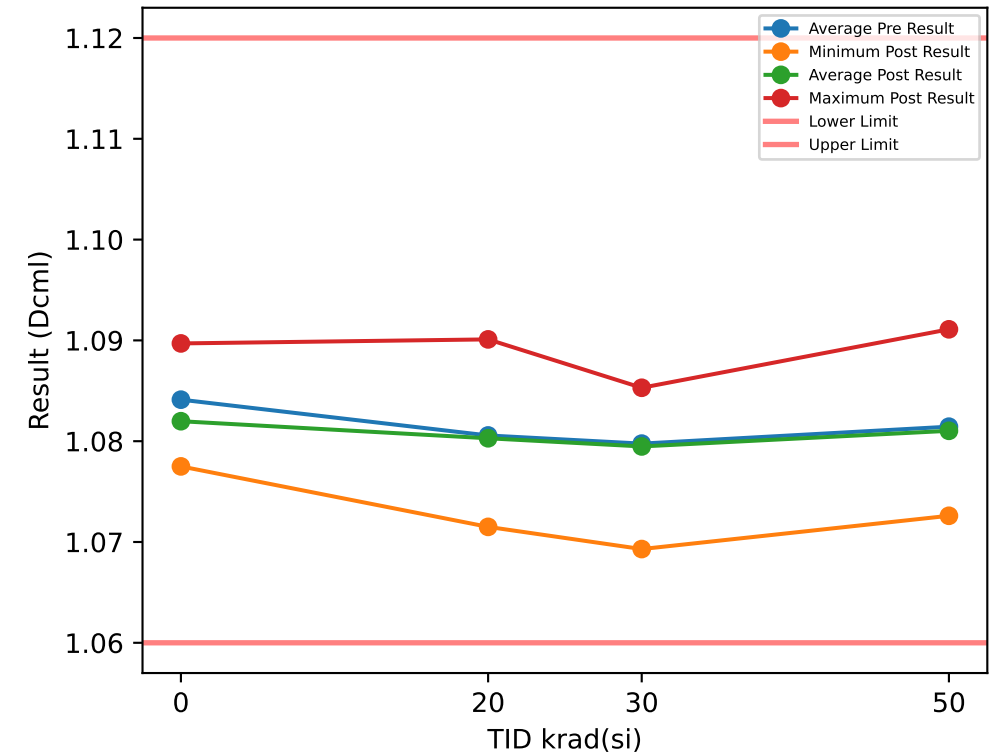
TID vs Post - Pre Exposure Delta



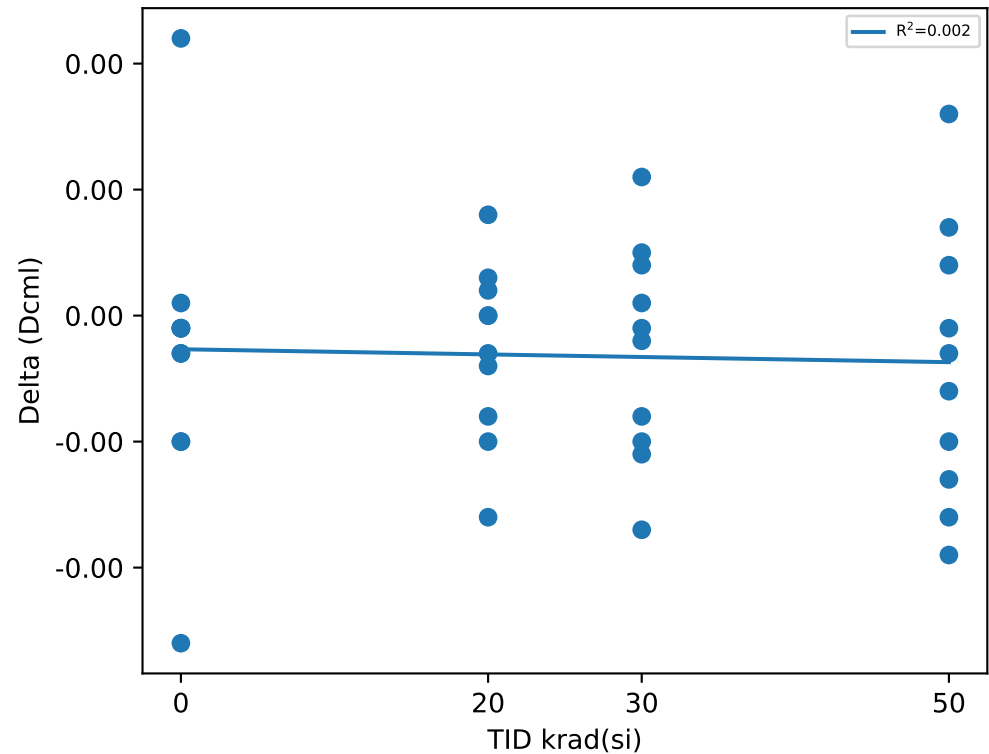
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9477	0.95186	0.9568	0.0041004	0.9478	0.95232	0.9576	0.0047336	-0.0005	0.00046	0.0018	0.0008792
20	0.9399	0.94868	0.9565	0.0054609	0.941	0.9491	0.957	0.0053903	-0.0005	0.00042	0.0021	0.00073454
30	0.939	0.94797	0.9523	0.0048958	0.9397	0.94859	0.9534	0.0047414	-0.0011	0.00062	0.0016	0.00089294
50	0.945	0.9499	0.9566	0.0040609	0.9451	0.95085	0.9581	0.0043577	-0.0018	0.00095	0.004	0.001729

TID vs Result Stats



TID vs Post - Pre Exposure Delta



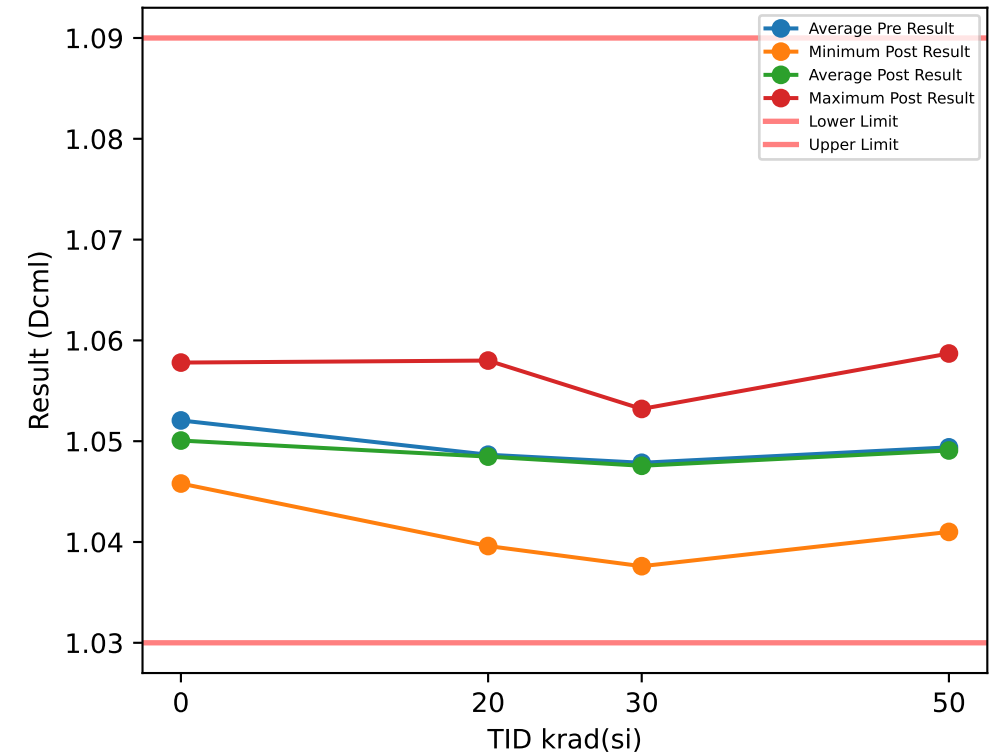
Test Results (Lower Limit = 1.06, Upper Limit = 1.12 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.0902	1.0876	-0.0026
516	0	CORRELATION	1.0875	1.0897	0.0022
721	0	CORRELATION	1.0814	1.0815	0.0001
723	0	CORRELATION	1.0776	1.0775	-0.0001
729	0	CORRELATION	1.0839	1.0829	-0.001
990	20	Unbiased	1.079	1.0774	-0.0016
991	20	Unbiased	1.0871	1.0863	-0.0008
992	20	Unbiased	1.0794	1.079	-0.0004
993	20	Unbiased	1.0775	1.0775	0
994	20	Unbiased	1.0876	1.0873	-0.0003
995	20	Biased	1.0811	1.0811	0
996	20	Biased	1.082	1.081	-0.001
997	20	Biased	1.0709	1.0717	0.0008
998	20	Biased	1.0898	1.0901	0.0003
999	20	Biased	1.0713	1.0715	0.0002
1020	30	Unbiased	1.0764	1.0756	-0.0008
1021	30	Unbiased	1.0802	1.0806	0.0004
1022	30	Unbiased	1.0844	1.0827	-0.0017
1023	30	Unbiased	1.0818	1.0816	-0.0002
1024	30	Unbiased	1.0842	1.0853	0.0011
1025	30	Biased	1.0849	1.0839	-0.001
1026	30	Biased	1.0809	1.0798	-0.0011
1027	30	Biased	1.0692	1.0693	0.0001
1028	30	Biased	1.0829	1.0834	0.0005
1029	30	Biased	1.0727	1.0726	-0.0001
1030	50	Unbiased	1.0775	1.0762	-0.0013
1031	50	Unbiased	1.0857	1.0851	-0.0006
1032	50	Unbiased	1.078	1.077	-0.001
1033	50	Unbiased	1.0774	1.0781	0.0007
1034	50	Unbiased	1.0802	1.0806	0.0004
1035	50	Biased-84Hr-Anneal	1.0835	1.0819	-0.0016
1036	50	Biased-84Hr-Anneal	1.0798	1.0797	-0.0001
1037	50	Biased-84Hr-Anneal	1.0729	1.0726	-0.0003
1038	50	Biased-84Hr-Anneal	1.0899	1.088	-0.0019
1039	50	Biased-84Hr-Anneal	1.0895	1.0911	0.0016

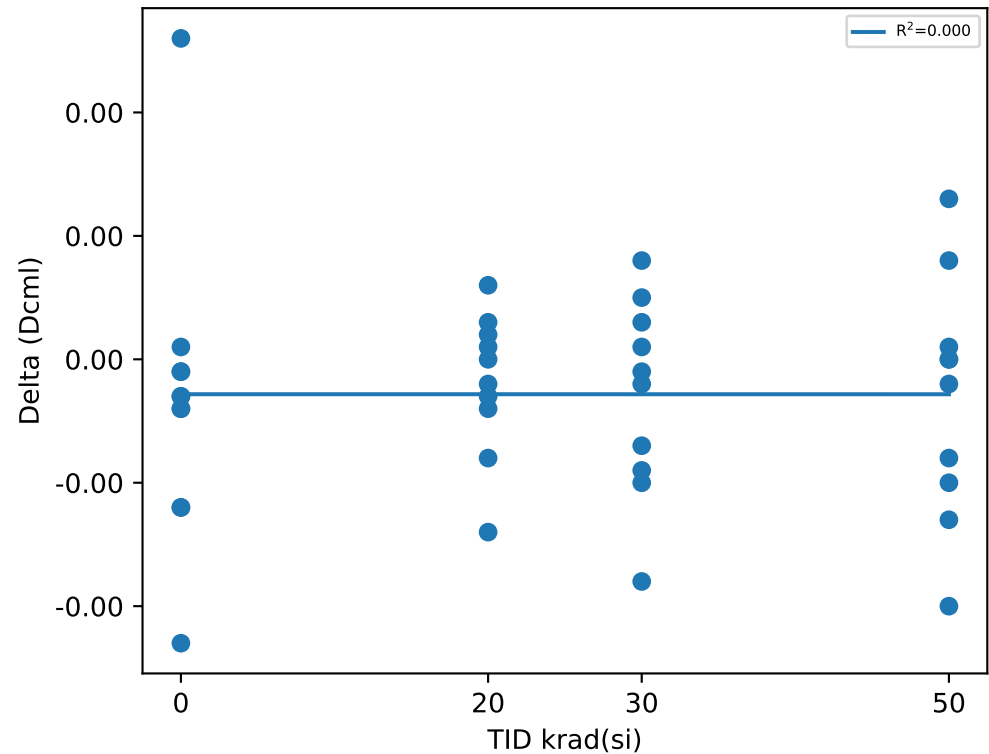
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0776	1.0841	1.0902	0.0049585	1.0775	1.0838	1.0897	0.0048742	-0.0026	-0.00028	0.0022	0.0017484
20	1.0709	1.0806	1.0898	0.0064315	1.0715	1.0803	1.0901	0.0062495	-0.0016	-0.00028	0.0008	0.00070206
30	1.0692	1.0798	1.0849	0.0053315	1.0693	1.0795	1.0853	0.0052812	-0.0017	-0.00028	0.0011	0.00085868
50	1.0729	1.0814	1.0899	0.0055754	1.0726	1.081	1.0911	0.0056616	-0.0019	-0.00041	0.0016	0.0010979

TID vs Result Stats



TID vs Post - Pre Exposure Delta



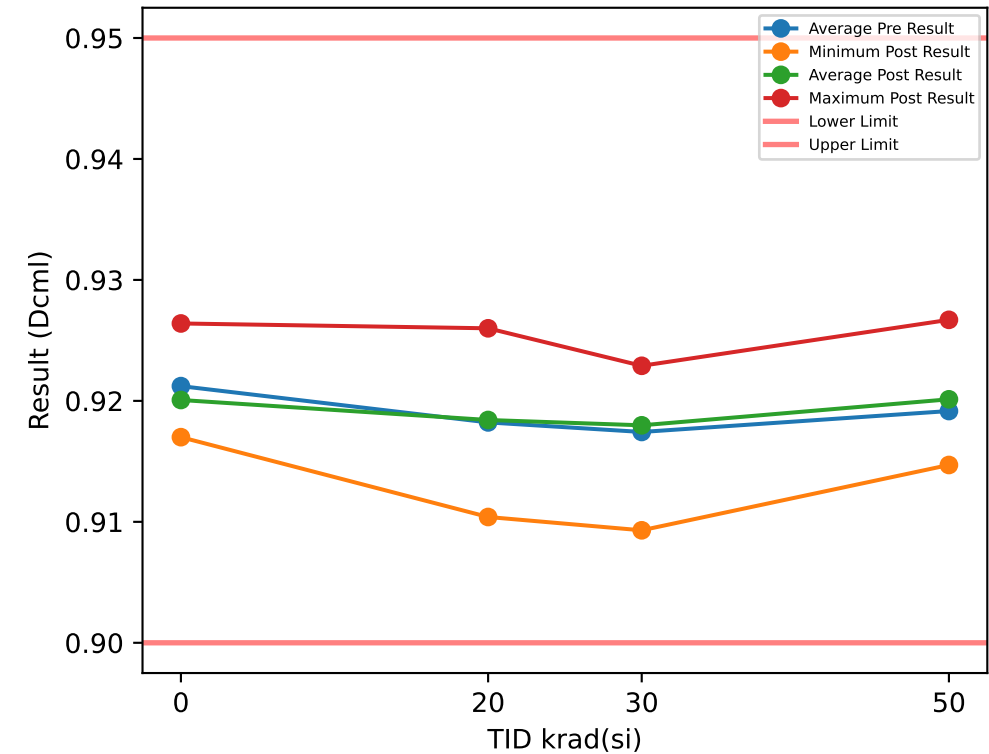
Test Results (Lower Limit = 1.03, Upper Limit = 1.09 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.0578	1.0555	-0.0023
516	0	CORRELATION	1.0552	1.0578	0.0026
721	0	CORRELATION	1.0493	1.0494	0.0001
723	0	CORRELATION	1.0462	1.0458	-0.0004
729	0	CORRELATION	1.0518	1.0506	-0.0012
990	20	Unbiased	1.0469	1.0455	-0.0014
991	20	Unbiased	1.055	1.0546	-0.0004
992	20	Unbiased	1.0475	1.0473	-0.0002
993	20	Unbiased	1.0456	1.0458	0.0002
994	20	Unbiased	1.0555	1.0552	-0.0003
995	20	Biased	1.0491	1.0492	0.0001
996	20	Biased	1.0503	1.0495	-0.0008
997	20	Biased	1.0394	1.04	0.0006
998	20	Biased	1.0577	1.058	0.0003
999	20	Biased	1.0396	1.0396	0
1020	30	Unbiased	1.0445	1.0435	-0.001
1021	30	Unbiased	1.0483	1.0486	0.0003
1022	30	Unbiased	1.0525	1.0507	-0.0018
1023	30	Unbiased	1.0497	1.0495	-0.0002
1024	30	Unbiased	1.0524	1.0532	0.0008
1025	30	Biased	1.0527	1.0518	-0.0009
1026	30	Biased	1.0486	1.0479	-0.0007
1027	30	Biased	1.0375	1.0376	0.0001
1028	30	Biased	1.0512	1.0517	0.0005
1029	30	Biased	1.0412	1.0411	-0.0001
1030	50	Unbiased	1.0454	1.0446	-0.0008
1031	50	Unbiased	1.0534	1.0532	-0.0002
1032	50	Unbiased	1.0463	1.0453	-0.001
1033	50	Unbiased	1.0455	1.0463	0.0008
1034	50	Unbiased	1.0486	1.0487	0.0001
1035	50	Biased-84Hr-Anneal	1.0511	1.0498	-0.0013
1036	50	Biased-84Hr-Anneal	1.0477	1.0477	0
1037	50	Biased-84Hr-Anneal	1.041	1.041	0
1038	50	Biased-84Hr-Anneal	1.0575	1.0555	-0.002
1039	50	Biased-84Hr-Anneal	1.0574	1.0587	0.0013

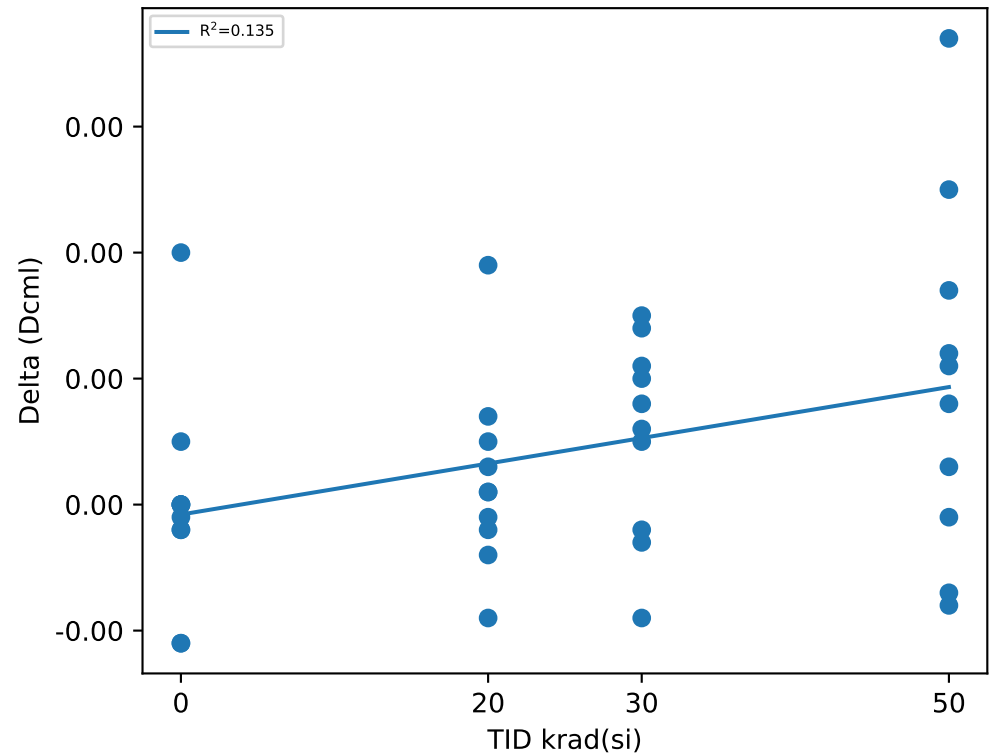
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0462	1.0521	1.0578	0.0046052	1.0458	1.0518	1.0578	0.0048189	-0.0023	-0.00024	0.0026	0.0018284
20	1.0394	1.0487	1.0577	0.0062648	1.0396	1.0485	1.058	0.0061736	-0.0014	-0.00019	0.0006	0.00058013
30	1.0375	1.0479	1.0527	0.005205	1.0376	1.0476	1.0532	0.005155	-0.0018	-0.0003	0.0008	0.00079443
50	1.041	1.0494	1.0575	0.00541	1.041	1.0491	1.0587	0.0053818	-0.002	-0.00031	0.0013	0.00098596

TID vs Result Stats

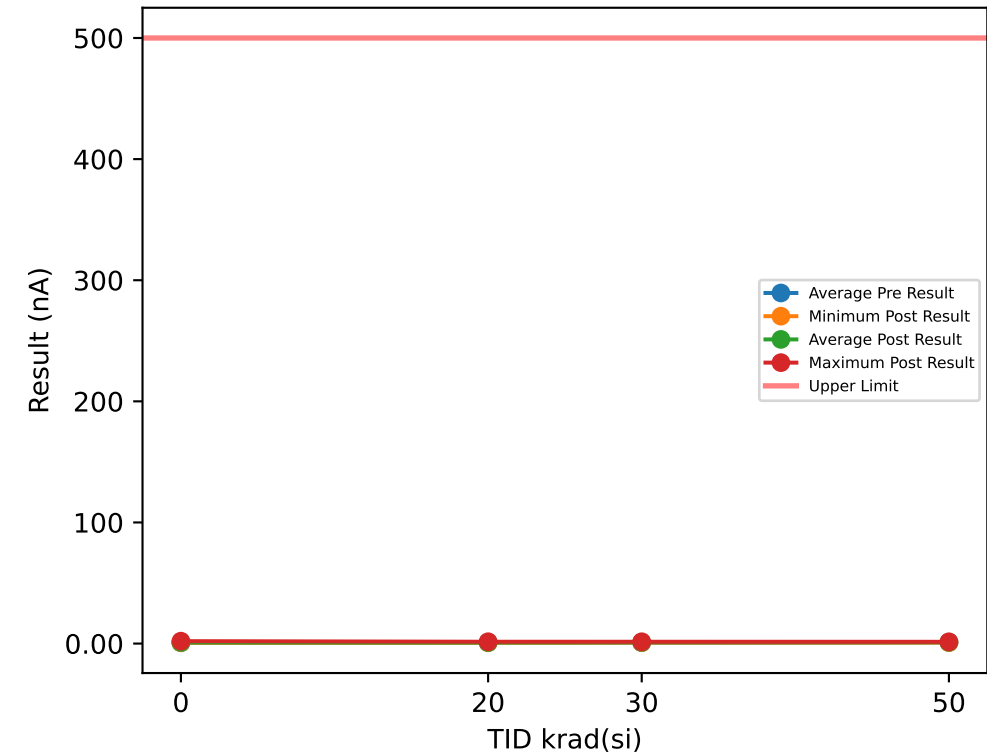


TID vs Post - Pre Exposure Delta

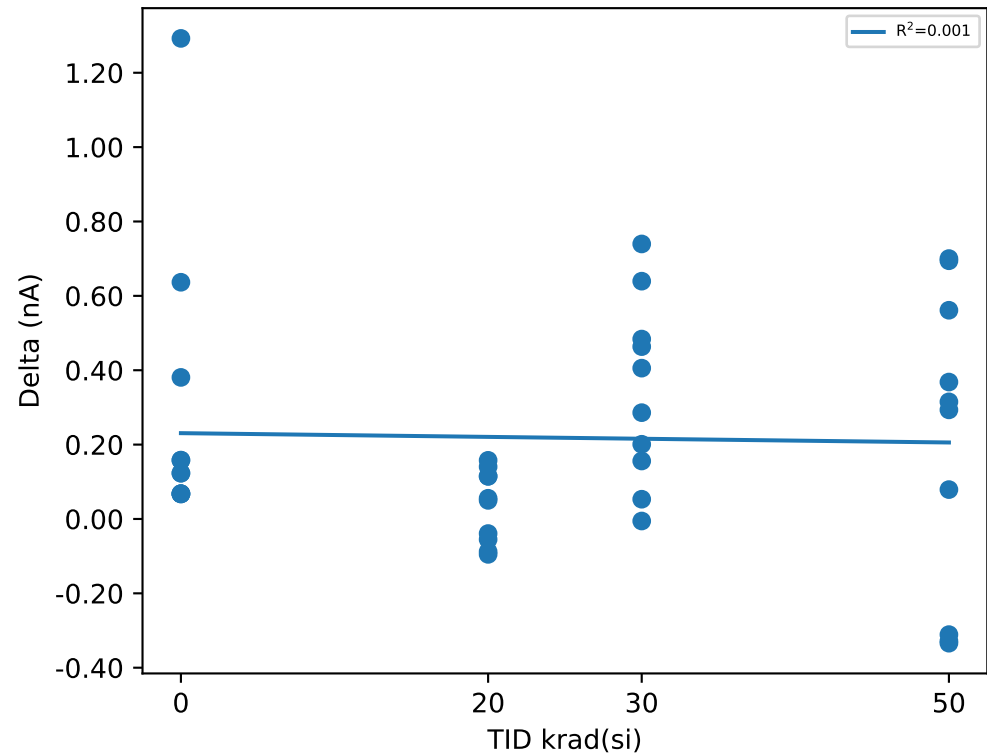


Device Test: 23.20 LEAK|MAX/PWRGD/12////@PWRGD_OUTPUT_HIGH_LEAK

TID vs Result Stats



TID vs Post - Pre Exposure Delta



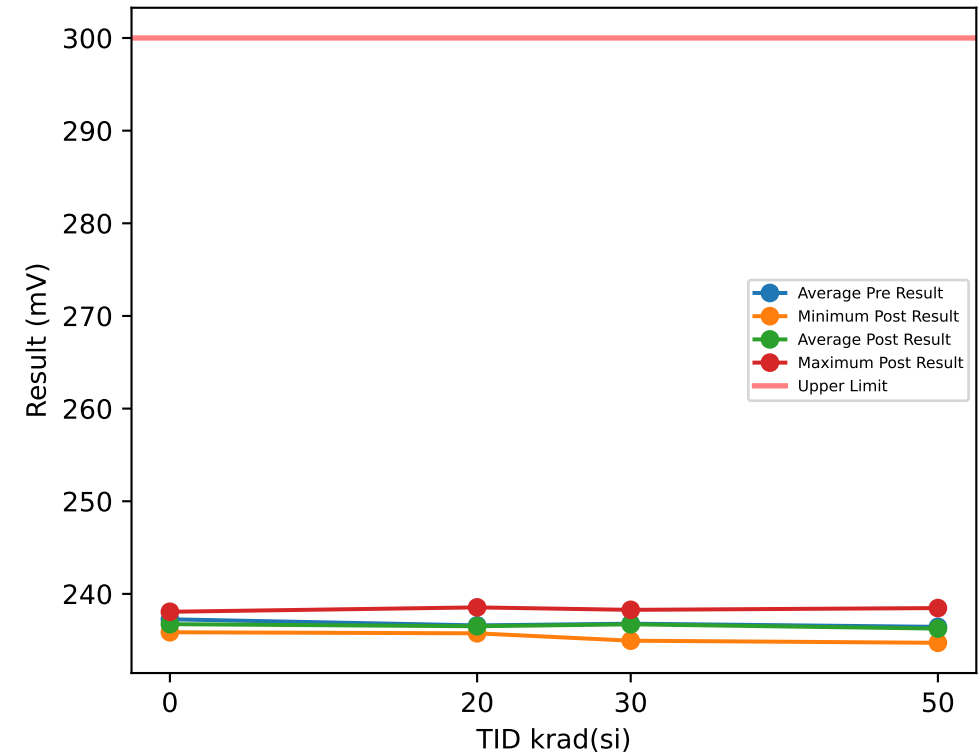
Test Results (Upper Limit = 500.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6972	1.9896	1.2924
516	0	CORRELATION	0.613	0.9937	0.3807
721	0	CORRELATION	0.8002	1.4368	0.6366
723	0	CORRELATION	0.6892	0.8473	0.1581
729	0	CORRELATION	0.6114	0.6794	0.068
990	20	Unbiased	0.7359	0.851	0.1151
991	20	Unbiased	1.4531	1.5088	0.0557
992	20	Unbiased	0.8064	0.8564	0.05
993	20	Unbiased	0.7346	0.6394	-0.0952
994	20	Unbiased	0.6581	0.8158	0.1577
995	20	Biased	0.9628	0.8751	-0.0877
996	20	Biased	0.744	0.7048	-0.0392
997	20	Biased	0.7409	0.8813	0.1404
998	20	Biased	0.8323	0.9469	0.1146
999	20	Biased	0.7535	0.6985	-0.055
1020	30	Unbiased	0.8252	1.2308	0.4056
1021	30	Unbiased	0.7596	1.4992	0.7396
1022	30	Unbiased	0.766	0.7605	-0.0055
1023	30	Unbiased	0.5879	0.7888	0.2009
1024	30	Unbiased	0.7203	1.0062	0.2859
1025	30	Biased	0.8347	1.4742	0.6395
1026	30	Biased	0.7096	1.1934	0.4838
1027	30	Biased	0.5212	0.9847	0.4635
1028	30	Biased	0.791	0.9469	0.1559
1029	30	Biased	0.7908	0.8439	0.0531
1030	50	Unbiased	0.7879	1.1561	0.3682
1031	50	Unbiased	0.7159	1.0093	0.2934
1032	50	Unbiased	0.7159	1.2772	0.5613
1033	50	Unbiased	0.599	1.2934	0.6944
1034	50	Unbiased	1.1439	1.4589	0.315
1035	50	Biased-84Hr-Anneal	1.1104	0.7763	-0.3341
1036	50	Biased-84Hr-Anneal	0.8273	0.9063	0.079
1037	50	Biased-84Hr-Anneal	1.2633	0.935	-0.3283
1038	50	Biased-84Hr-Anneal	0.7586	1.4589	0.7003
1039	50	Biased-84Hr-Anneal	1.2641	0.9531	-0.311

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	0.6114	0.6822	0.8002	0.077459	0.6794	1.1894	1.9896	0.52843	0.068	0.50716	1.2924	0.49093
20	0.6581	0.84216	1.4531	0.22941	0.6394	0.8778	1.5088	0.24196	-0.0952	0.03564	0.1577	0.097285
30	0.5212	0.73063	0.8347	0.10215	0.7605	1.0729	1.4992	0.26689	-0.0055	0.34223	0.7396	0.24663
50	0.599	0.91863	1.2641	0.24968	0.7763	1.1225	1.4589	0.24126	-0.3341	0.20382	0.7003	0.41035

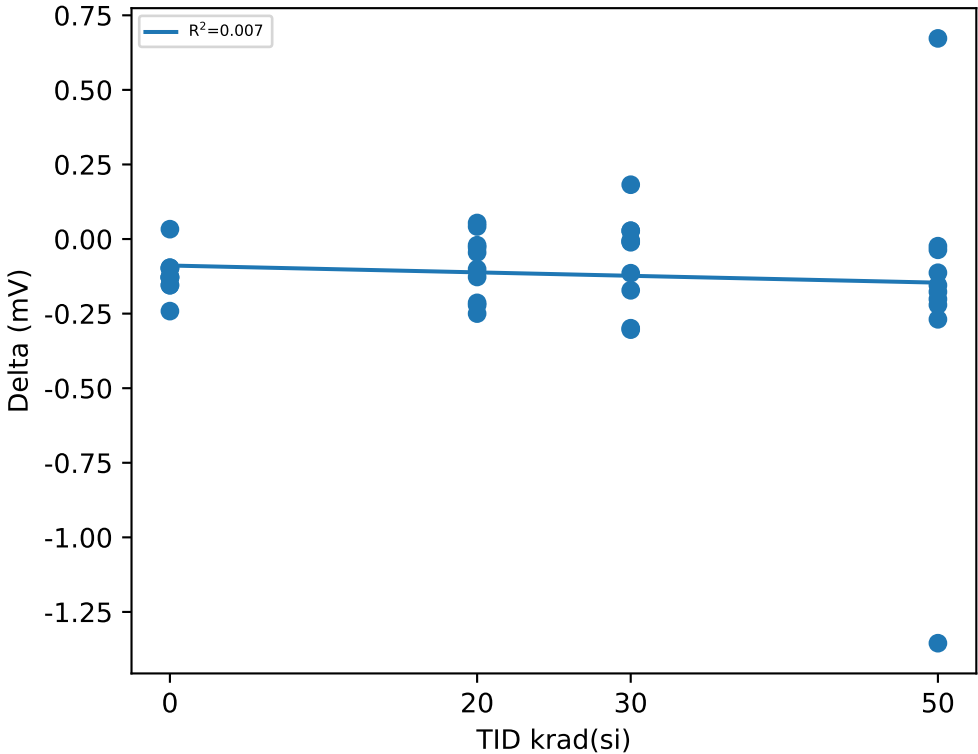
TID vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	238.31	238.07	-0.2416
516	0	CORRELATION	237.36	237.39	0.0331
721	0	CORRELATION	237.6	237.5	-0.0991
723	0	CORRELATION	236.01	235.86	-0.1547
729	0	CORRELATION	237.01	236.88	-0.1293
990	20	Unbiased	237.64	237.39	-0.2499
991	20	Unbiased	235.77	235.75	-0.0208
992	20	Unbiased	235.78	235.83	0.0538
993	20	Unbiased	235.83	235.87	0.0421
994	20	Unbiased	236.22	236.09	-0.1272
995	20	Biased	236.22	236.17	-0.045
996	20	Biased	238.57	238.54	-0.0284
997	20	Biased	237.14	237.04	-0.1009
998	20	Biased	236.17	235.96	-0.2139
999	20	Biased	236.66	236.44	-0.2215
1020	30	Unbiased	238.06	238.08	0.0277
1021	30	Unbiased	236.86	237.04	0.1821
1022	30	Unbiased	236.33	236.03	-0.3037
1023	30	Unbiased	238.28	238.28	-0.0045
1024	30	Unbiased	235.75	235.45	-0.2989
1025	30	Biased	237.67	237.7	0.0278
1026	30	Biased	236.77	236.76	-0.0108
1027	30	Biased	235.73	235.56	-0.1719
1028	30	Biased	235.06	234.95	-0.1145
1029	30	Biased	237.32	237.31	-0.0084
1030	50	Unbiased	235.36	235.18	-0.177
1031	50	Unbiased	238.49	238.47	-0.0239
1032	50	Unbiased	234.8	234.76	-0.0361
1033	50	Unbiased	235.53	235.31	-0.2208
1034	50	Unbiased	234.92	234.72	-0.2013
1035	50	Biased-84Hr-Anneal	236.89	236.62	-0.2691
1036	50	Biased-84Hr-Anneal	237.23	237.07	-0.155
1037	50	Biased-84Hr-Anneal	236.44	236.33	-0.113
1038	50	Biased-84Hr-Anneal	236.85	237.53	0.6726
1039	50	Biased-84Hr-Anneal	237.92	236.56	-1.3548

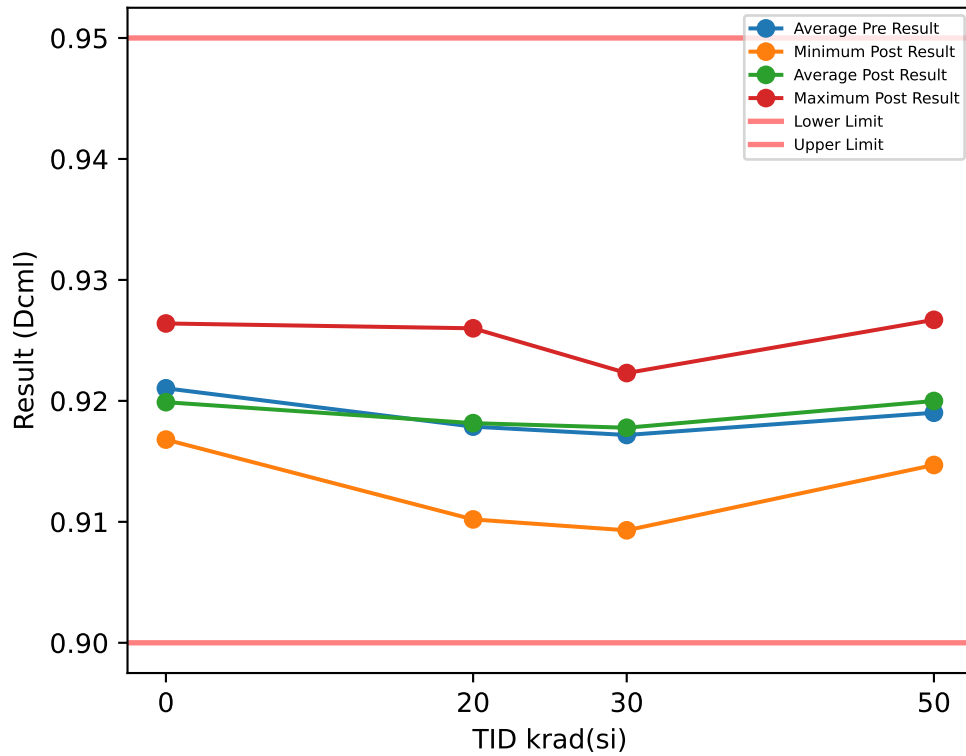
TID vs Post - Pre Exposure Delta



Test Statistics (mV)

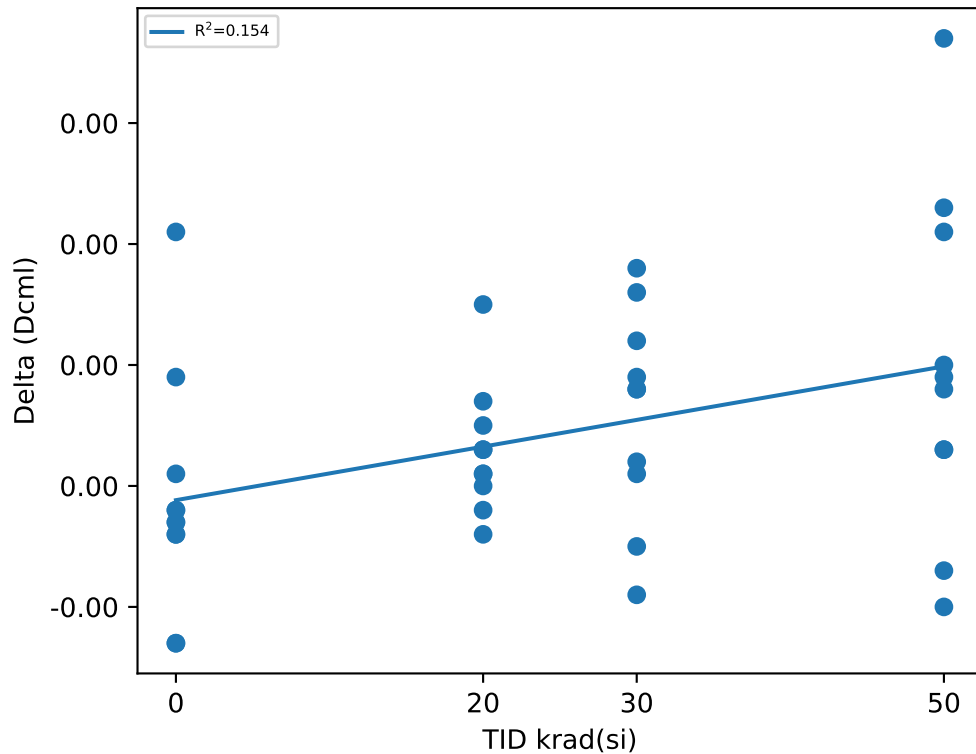
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	236.01	237.26	238.31	0.84382	235.86	237.14	238.07	0.83176	-0.2416	-0.11832	0.0331	0.099924
20	235.77	236.6	238.57	0.92524	235.75	236.51	238.54	0.89709	-0.2499	-0.09117	0.0538	0.10977
30	235.06	236.78	238.28	1.0696	234.95	236.72	238.28	1.1684	-0.3037	-0.06751	0.1821	0.15404
50	234.8	236.44	238.49	1.2644	234.72	236.26	238.47	1.2492	-1.3548	-0.18784	0.6726	0.49066

Device Test: 23.23 THRESHOLD|FALL/PWRGD/14///4011/@VSENSE_VTH_FALLING_FAULT



Test Results (Lower Limit = 0.9,
Upper Limit = 0.95 (Dcml))

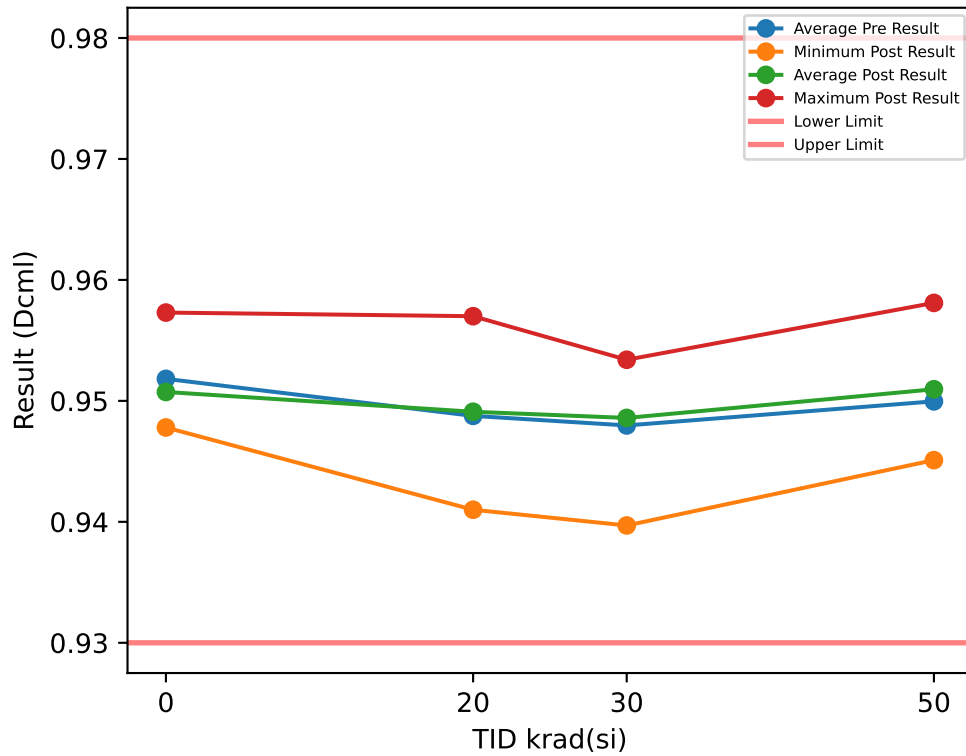
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.9255	0.9264	0.0009
516	0	CORRELATION	0.924	0.9261	0.0021
721	0	CORRELATION	0.9174	0.9175	0.0001
723	0	CORRELATION	0.9172	0.917	-0.0002
729	0	CORRELATION	0.9211	0.9198	-0.0013
990	20	Unbiased	0.9173	0.9169	-0.0004
991	20	Unbiased	0.9247	0.9248	0.0001
992	20	Unbiased	0.9169	0.9174	0.0005
993	20	Unbiased	0.9157	0.9158	0.0001
994	20	Unbiased	0.9213	0.9216	0.0003
995	20	Biased	0.9181	0.9196	0.0015
996	20	Biased	0.9189	0.9187	-0.0002
997	20	Biased	0.9095	0.9102	0.0007
998	20	Biased	0.9257	0.926	0.0003
999	20	Biased	0.9106	0.9106	0
1020	30	Unbiased	0.9143	0.9138	-0.0005
1021	30	Unbiased	0.9151	0.9167	0.0016
1022	30	Unbiased	0.9213	0.9204	-0.0009
1023	30	Unbiased	0.9196	0.9204	0.0008
1024	30	Unbiased	0.9214	0.9223	0.0009
1025	30	Biased	0.9209	0.921	0.0001
1026	30	Biased	0.9193	0.9195	0.0002
1027	30	Biased	0.9105	0.9123	0.0018
1028	30	Biased	0.9213	0.9221	0.0008
1029	30	Biased	0.9081	0.9093	0.0012
1030	50	Unbiased	0.9175	0.9183	0.0008
1031	50	Unbiased	0.9217	0.924	0.0023
1032	50	Unbiased	0.9144	0.9147	0.0003
1033	50	Unbiased	0.9154	0.9175	0.0021
1034	50	Unbiased	0.917	0.9173	0.0003
1035	50	Biased-84Hr-Anneal	0.9221	0.9214	-0.0007
1036	50	Biased-84Hr-Anneal	0.9194	0.9203	0.0009
1037	50	Biased-84Hr-Anneal	0.9142	0.9152	0.001
1038	50	Biased-84Hr-Anneal	0.9255	0.9245	-0.001
1039	50	Biased-84Hr-Anneal	0.923	0.9267	0.0037



Test Statistics (Dcml)

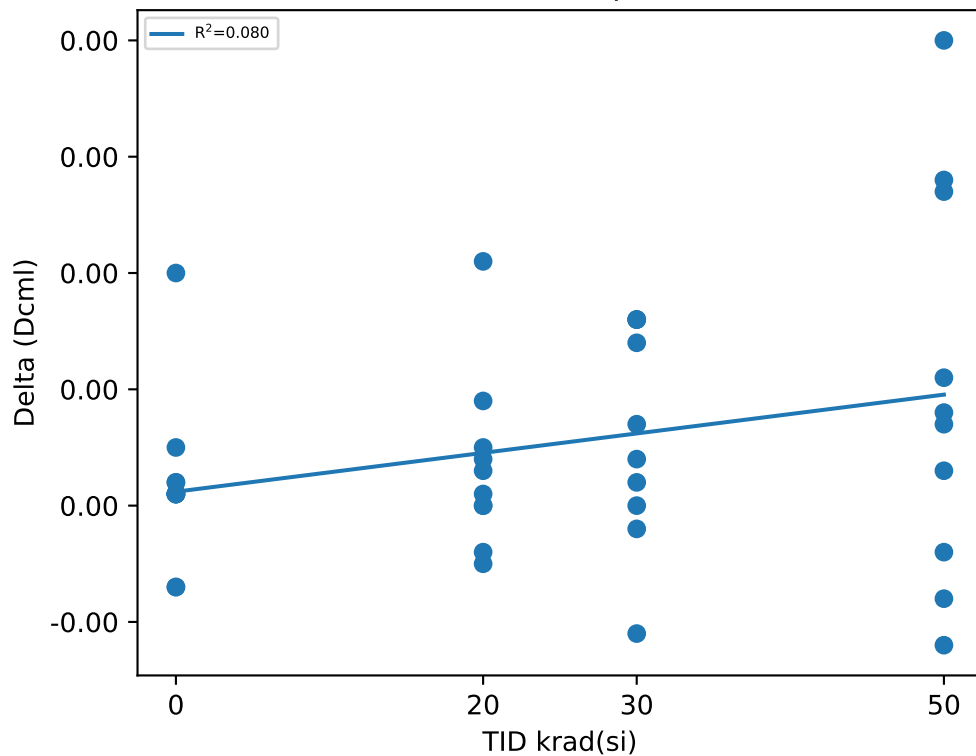
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9172	0.92104	0.9255	0.0037634	0.917	0.92136	0.9264	0.0045884	-0.0013	0.00032	0.0021	0.0012696
20	0.9095	0.91787	0.9257	0.0052675	0.9102	0.91816	0.926	0.0052494	-0.0004	0.00029	0.0015	0.00053219
30	0.9081	0.91718	0.9214	0.0048948	0.9093	0.91778	0.9223	0.004535	-0.0009	0.0006	0.0018	0.00087178
50	0.9142	0.91902	0.9255	0.0039259	0.9147	0.91999	0.9267	0.0040927	-0.001	0.00097	0.0037	0.0014182

Device Test: 23.24 THRESHOLD|RISE/PWRGD/14///4011/@VSENSE_VTH_RISING_GOOD



Test Results (Lower Limit = 0.93,
Upper Limit = 0.98 (Dcml))

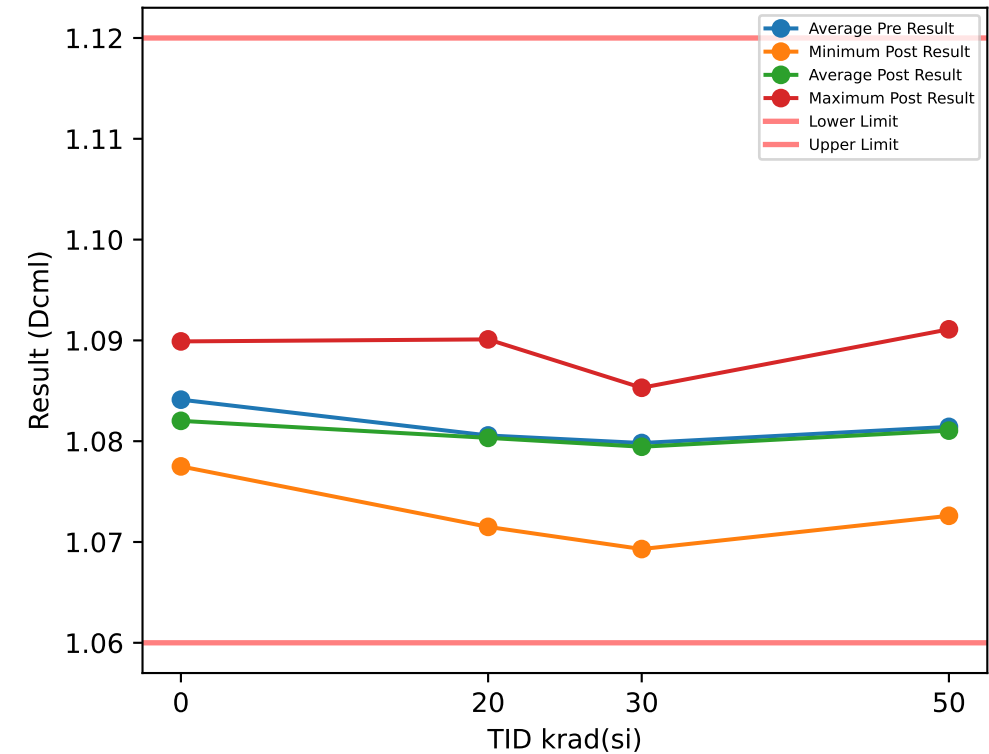
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.9568	0.9573	0.0005
516	0	CORRELATION	0.9551	0.9571	0.002
721	0	CORRELATION	0.9482	0.9483	0.0001
723	0	CORRELATION	0.9477	0.9478	0.0001
729	0	CORRELATION	0.9513	0.9506	-0.0007
990	20	Unbiased	0.9482	0.9477	-0.0005
991	20	Unbiased	0.9559	0.9559	0
992	20	Unbiased	0.9479	0.9483	0.0004
993	20	Unbiased	0.9465	0.9466	0.0001
994	20	Unbiased	0.9521	0.9526	0.0005
995	20	Biased	0.9488	0.9509	0.0021
996	20	Biased	0.9502	0.9498	-0.0004
997	20	Biased	0.9401	0.941	0.0009
998	20	Biased	0.9567	0.957	0.0003
999	20	Biased	0.9412	0.9412	0
1020	30	Unbiased	0.9448	0.9446	-0.0002
1021	30	Unbiased	0.9462	0.9476	0.0014
1022	30	Unbiased	0.9523	0.9512	-0.0011
1023	30	Unbiased	0.9507	0.9511	0.0004
1024	30	Unbiased	0.9518	0.9534	0.0016
1025	30	Biased	0.9518	0.952	0.0002
1026	30	Biased	0.9503	0.9503	0
1027	30	Biased	0.9411	0.9427	0.0016
1028	30	Biased	0.9517	0.9533	0.0016
1029	30	Biased	0.939	0.9397	0.0007
1030	50	Unbiased	0.9481	0.9488	0.0007
1031	50	Unbiased	0.9526	0.9553	0.0027
1032	50	Unbiased	0.9455	0.9451	-0.0004
1033	50	Unbiased	0.9458	0.9486	0.0028
1034	50	Unbiased	0.9481	0.9484	0.0003
1035	50	Biased-84Hr-Anneal	0.9534	0.9522	-0.0012
1036	50	Biased-84Hr-Anneal	0.9502	0.9513	0.0011
1037	50	Biased-84Hr-Anneal	0.9452	0.946	0.0008
1038	50	Biased-84Hr-Anneal	0.9566	0.9558	-0.0008
1039	50	Biased-84Hr-Anneal	0.9541	0.9581	0.004



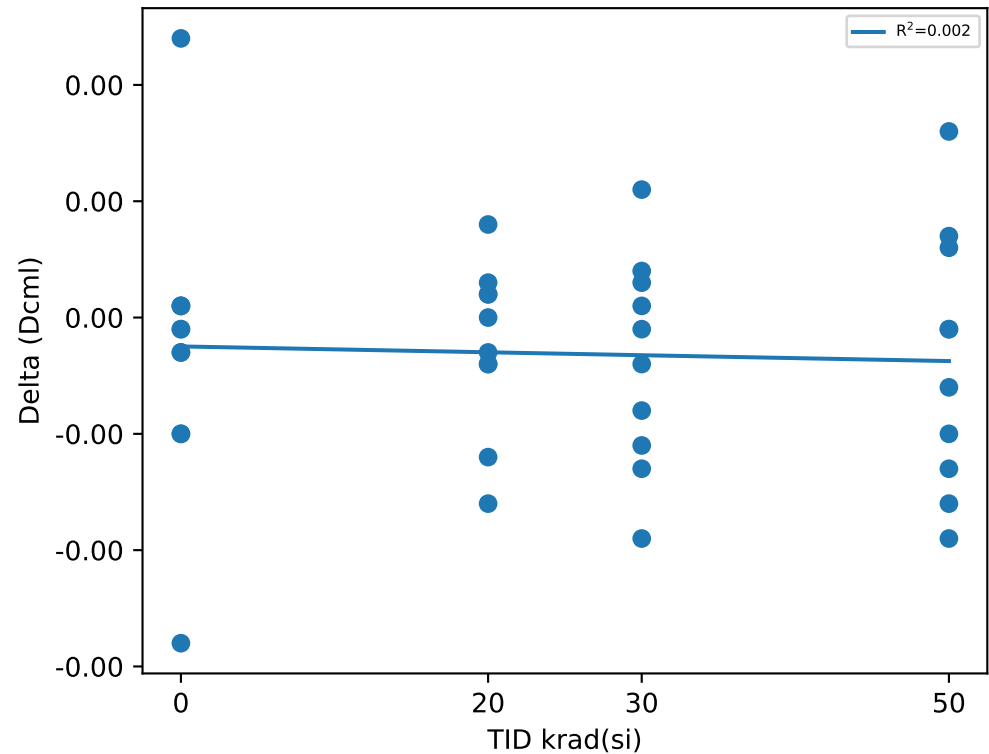
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9477	0.95182	0.9568	0.0040592	0.9478	0.95222	0.9573	0.0046677	-0.0007	0.0004	0.002	0.00099499
20	0.9401	0.94876	0.9567	0.005432	0.941	0.9491	0.957	0.0053903	-0.0005	0.00034	0.0021	0.00074416
30	0.939	0.94797	0.9523	0.0048958	0.9397	0.94859	0.9534	0.0047564	-0.0011	0.00062	0.0016	0.00092712
50	0.9452	0.94996	0.9566	0.0040396	0.9451	0.95096	0.9581	0.0043541	-0.0012	0.001	0.004	0.0016931

TID vs Result Stats



TID vs Post - Pre Exposure Delta



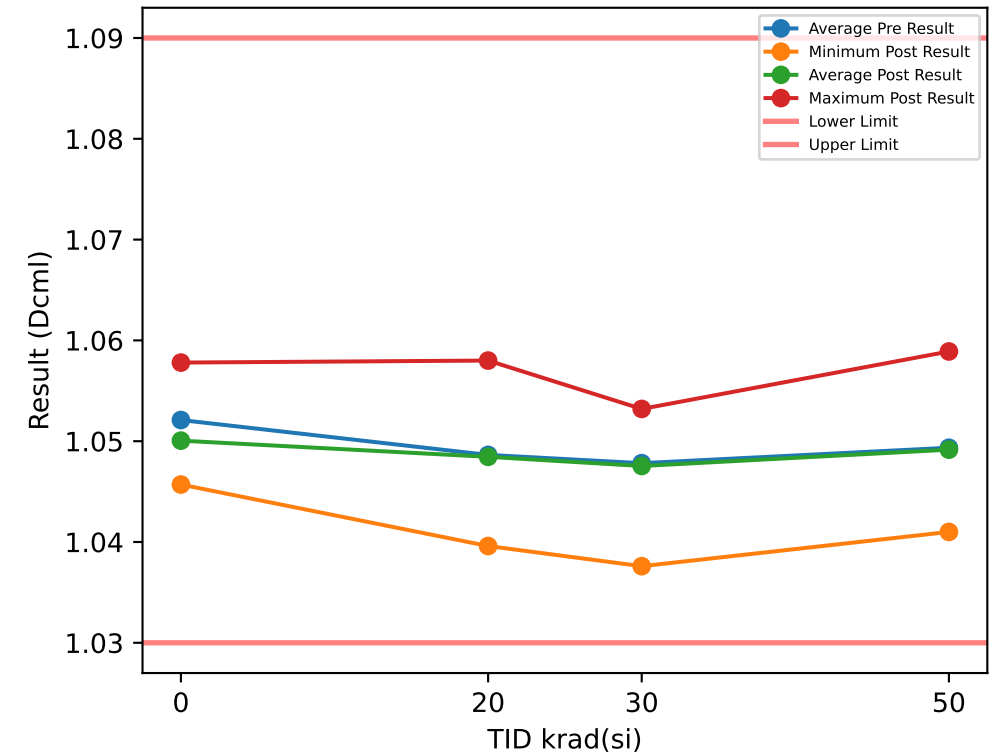
Test Results (Lower Limit = 1.06, Upper Limit = 1.12 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.0902	1.0874	-0.0028
516	0	CORRELATION	1.0875	1.0899	0.0024
721	0	CORRELATION	1.0814	1.0815	0.0001
723	0	CORRELATION	1.0776	1.0775	-0.0001
729	0	CORRELATION	1.0839	1.0829	-0.001
990	20	Unbiased	1.079	1.0774	-0.0016
991	20	Unbiased	1.0871	1.0867	-0.0004
992	20	Unbiased	1.0794	1.079	-0.0004
993	20	Unbiased	1.0773	1.0775	0.0002
994	20	Unbiased	1.0876	1.0873	-0.0003
995	20	Biased	1.0811	1.0811	0
996	20	Biased	1.0822	1.081	-0.0012
997	20	Biased	1.0709	1.0717	0.0008
998	20	Biased	1.0898	1.0901	0.0003
999	20	Biased	1.0713	1.0715	0.0002
1020	30	Unbiased	1.0764	1.0756	-0.0008
1021	30	Unbiased	1.0802	1.0806	0.0004
1022	30	Unbiased	1.0846	1.0827	-0.0019
1023	30	Unbiased	1.082	1.0816	-0.0004
1024	30	Unbiased	1.0842	1.0853	0.0011
1025	30	Biased	1.0849	1.0836	-0.0013
1026	30	Biased	1.0809	1.0798	-0.0011
1027	30	Biased	1.0692	1.0693	0.0001
1028	30	Biased	1.0831	1.0834	0.0003
1029	30	Biased	1.0727	1.0726	-0.0001
1030	50	Unbiased	1.0775	1.0762	-0.0013
1031	50	Unbiased	1.0857	1.0851	-0.0006
1032	50	Unbiased	1.078	1.077	-0.001
1033	50	Unbiased	1.0774	1.0781	0.0007
1034	50	Unbiased	1.0802	1.0808	0.0006
1035	50	Biased-84Hr-Anneal	1.0835	1.0819	-0.0016
1036	50	Biased-84Hr-Anneal	1.0798	1.0797	-0.0001
1037	50	Biased-84Hr-Anneal	1.0727	1.0726	-0.0001
1038	50	Biased-84Hr-Anneal	1.0899	1.088	-0.0019
1039	50	Biased-84Hr-Anneal	1.0895	1.0911	0.0016

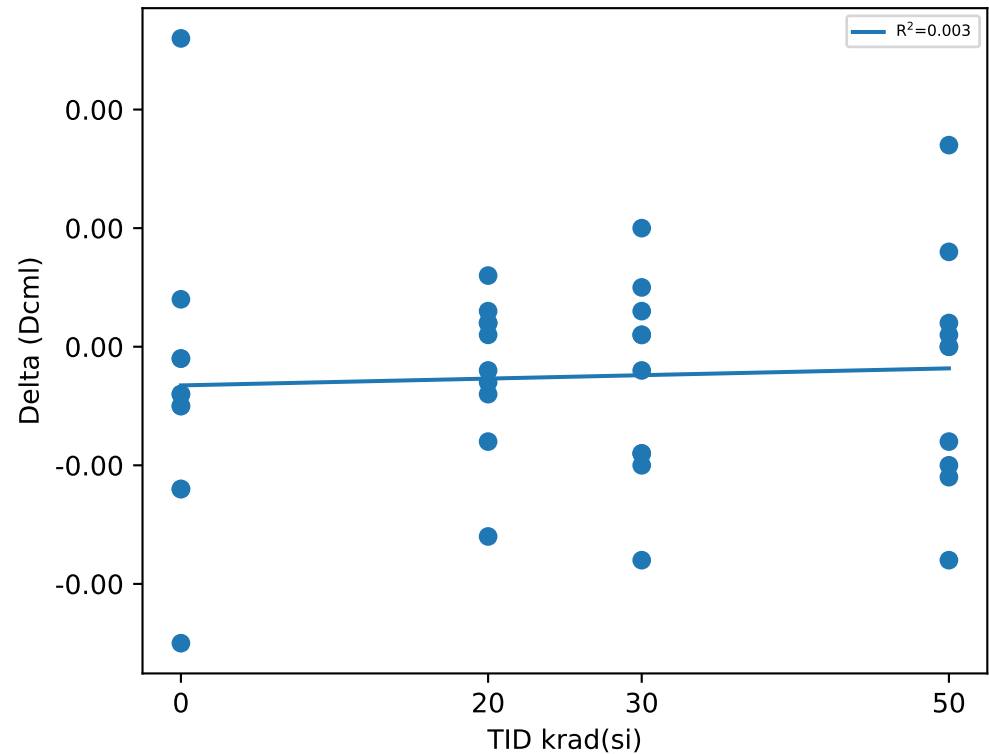
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0776	1.0841	1.0902	0.0049585	1.0775	1.0838	1.0899	0.0048978	-0.0028	-0.00028	0.0024	0.001886
20	1.0709	1.0806	1.0898	0.0064477	1.0715	1.0803	1.0901	0.0062934	-0.0016	-0.00024	0.0008	0.00071833
30	1.0692	1.0798	1.0849	0.0053731	1.0693	1.0795	1.0853	0.005254	-0.0019	-0.00037	0.0011	0.00090805
50	1.0727	1.0814	1.0899	0.0056097	1.0726	1.0811	1.0911	0.0056602	-0.0019	-0.00037	0.0016	0.0011196

TID vs Result Stats



TID vs Post - Pre Exposure Delta



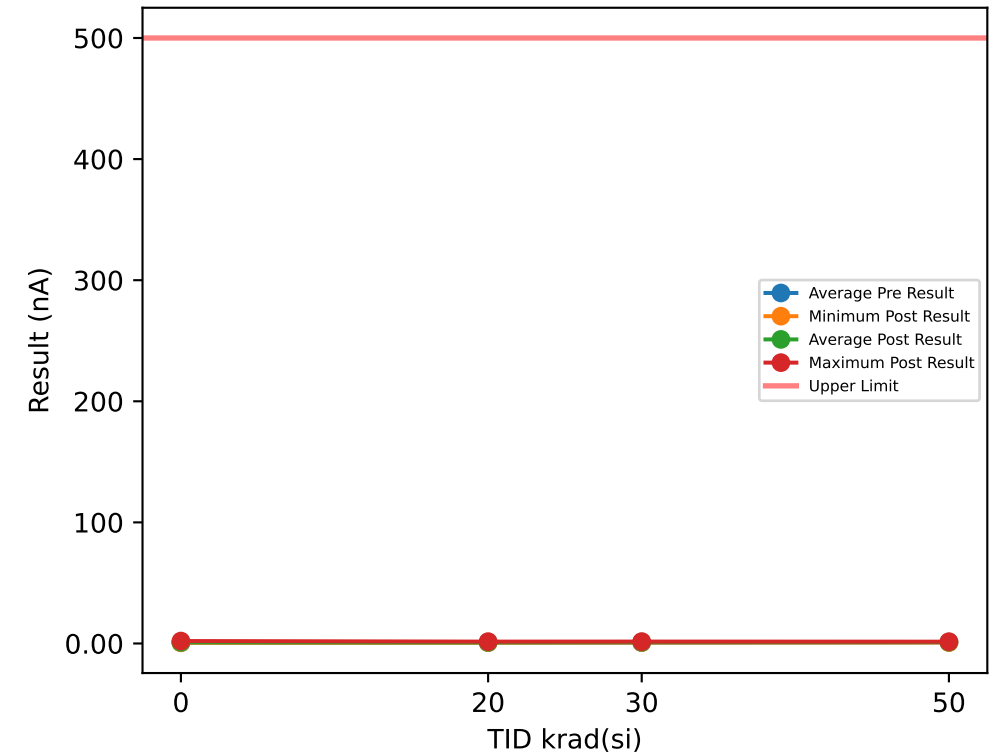
Test Results (Lower Limit = 1.03, Upper Limit = 1.09 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.058	1.0555	-0.0025
516	0	CORRELATION	1.0552	1.0578	0.0026
721	0	CORRELATION	1.0493	1.0497	0.0004
723	0	CORRELATION	1.0462	1.0458	-0.0004
729	0	CORRELATION	1.0518	1.0506	-0.0012
990	20	Unbiased	1.0469	1.0453	-0.0016
991	20	Unbiased	1.055	1.0546	-0.0004
992	20	Unbiased	1.0475	1.0473	-0.0002
993	20	Unbiased	1.0456	1.0458	0.0002
994	20	Unbiased	1.0555	1.0552	-0.0003
995	20	Biased	1.0491	1.0492	0.0001
996	20	Biased	1.0503	1.0495	-0.0008
997	20	Biased	1.0394	1.04	0.0006
998	20	Biased	1.0577	1.058	0.0003
999	20	Biased	1.0394	1.0396	0.0002
1020	30	Unbiased	1.0445	1.0435	-0.001
1021	30	Unbiased	1.0481	1.0486	0.0005
1022	30	Unbiased	1.0525	1.0507	-0.0018
1023	30	Unbiased	1.0497	1.0495	-0.0002
1024	30	Unbiased	1.0522	1.0532	0.001
1025	30	Biased	1.0527	1.0518	-0.0009
1026	30	Biased	1.0488	1.0479	-0.0009
1027	30	Biased	1.0375	1.0376	0.0001
1028	30	Biased	1.0512	1.0515	0.0003
1029	30	Biased	1.041	1.0411	0.0001
1030	50	Unbiased	1.0454	1.0446	-0.0008
1031	50	Unbiased	1.0534	1.0534	0
1032	50	Unbiased	1.0463	1.0453	-0.001
1033	50	Unbiased	1.0455	1.0463	0.0008
1034	50	Unbiased	1.0486	1.0487	0.0001
1035	50	Biased-84Hr-Anneal	1.0511	1.05	-0.0011
1036	50	Biased-84Hr-Anneal	1.0477	1.0477	0
1037	50	Biased-84Hr-Anneal	1.0408	1.041	0.0002
1038	50	Biased-84Hr-Anneal	1.0575	1.0557	-0.0018
1039	50	Biased-84Hr-Anneal	1.0572	1.0589	0.0017

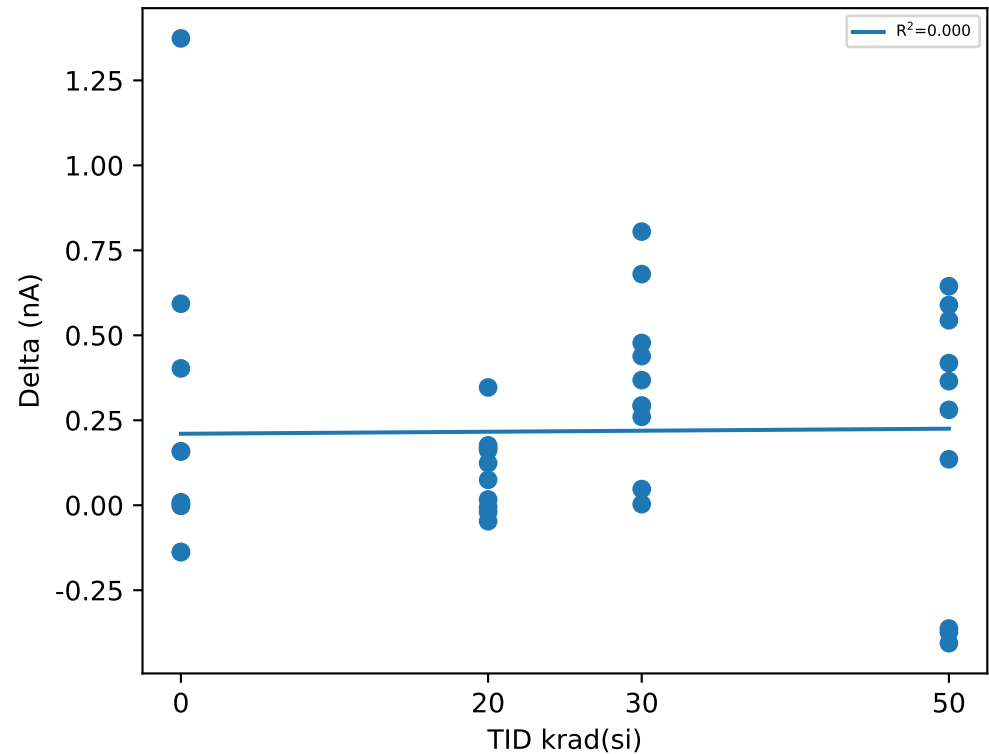
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0462	1.0521	1.058	0.004668	1.0458	1.0519	1.0578	0.004783	-0.0025	-0.00022	0.0026	0.0019058
20	1.0394	1.0486	1.0577	0.0062971	1.0396	1.0485	1.058	0.0061846	-0.0016	-0.00019	0.0006	0.00063849
30	1.0375	1.0478	1.0527	0.0052168	1.0376	1.0475	1.0532	0.0051375	-0.0018	-0.00028	0.001	0.00084827
50	1.0408	1.0494	1.0575	0.0054122	1.041	1.0492	1.0589	0.0054683	-0.0018	-0.00019	0.0017	0.001017

TID vs Result Stats



TID vs Post - Pre Exposure Delta



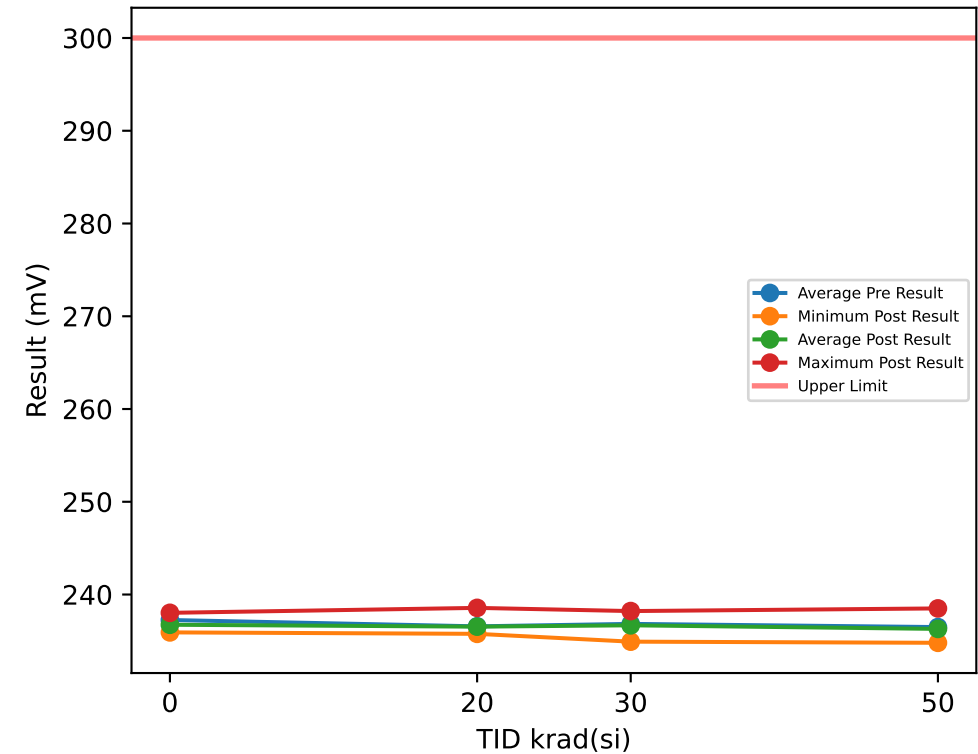
Test Results (Upper Limit = 500.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6472	2.0208	1.3736
516	0	CORRELATION	0.613	1.0156	0.4026
721	0	CORRELATION	0.8314	1.4243	0.5929
723	0	CORRELATION	0.7701	0.9285	0.1584
729	0	CORRELATION	0.7048	0.5671	-0.1377
990	20	Unbiased	0.7856	0.9474	0.1618
991	20	Unbiased	1.3719	1.54	0.1681
992	20	Unbiased	0.7471	0.822	0.0749
993	20	Unbiased	0.6753	0.655	-0.0203
994	20	Unbiased	0.6301	0.8064	0.1763
995	20	Biased	0.9565	0.9094	-0.0471
996	20	Biased	0.6972	0.7141	0.0169
997	20	Biased	0.6097	0.9563	0.3466
998	20	Biased	0.8323	0.9563	0.124
999	20	Biased	0.816	0.8105	-0.0055
1020	30	Unbiased	0.8376	1.2058	0.3682
1021	30	Unbiased	0.769	1.5741	0.8051
1022	30	Unbiased	0.7067	0.7543	0.0476
1023	30	Unbiased	0.5535	0.8136	0.2601
1024	30	Unbiased	0.7545	1.0468	0.2923
1025	30	Biased	0.7972	1.4773	0.6801
1026	30	Biased	0.6784	1.1559	0.4775
1027	30	Biased	0.5554	0.9941	0.4387
1028	30	Biased	0.766	1.0593	0.2933
1029	30	Biased	0.8345	0.8376	0.0031
1030	50	Unbiased	0.8222	1.1873	0.3651
1031	50	Unbiased	0.719	1.1373	0.4183
1032	50	Unbiased	0.7471	1.3363	0.5892
1033	50	Unbiased	0.5928	1.2372	0.6444
1034	50	Unbiased	1.2126	1.4932	0.2806
1035	50	Biased-84Hr-Anneal	1.204	0.7981	-0.4059
1036	50	Biased-84Hr-Anneal	0.8117	0.9469	0.1352
1037	50	Biased-84Hr-Anneal	1.2977	0.935	-0.3627
1038	50	Biased-84Hr-Anneal	0.821	1.3652	0.5442
1039	50	Biased-84Hr-Anneal	1.2828	0.9094	-0.3734

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	0.613	0.7133	0.8314	0.088988	0.5671	1.1913	2.0208	0.55496	-0.1377	0.47796	1.3736	0.57057
20	0.6097	0.81217	1.3719	0.22251	0.655	0.91174	1.54	0.24366	-0.0471	0.09957	0.3466	0.12039
30	0.5535	0.72528	0.8376	0.10277	0.7543	1.0919	1.5741	0.27221	0.0031	0.3666	0.8051	0.25038
50	0.5928	0.95109	1.2977	0.26653	0.7981	1.1346	1.4932	0.22968	-0.4059	0.1835	0.6444	0.41671

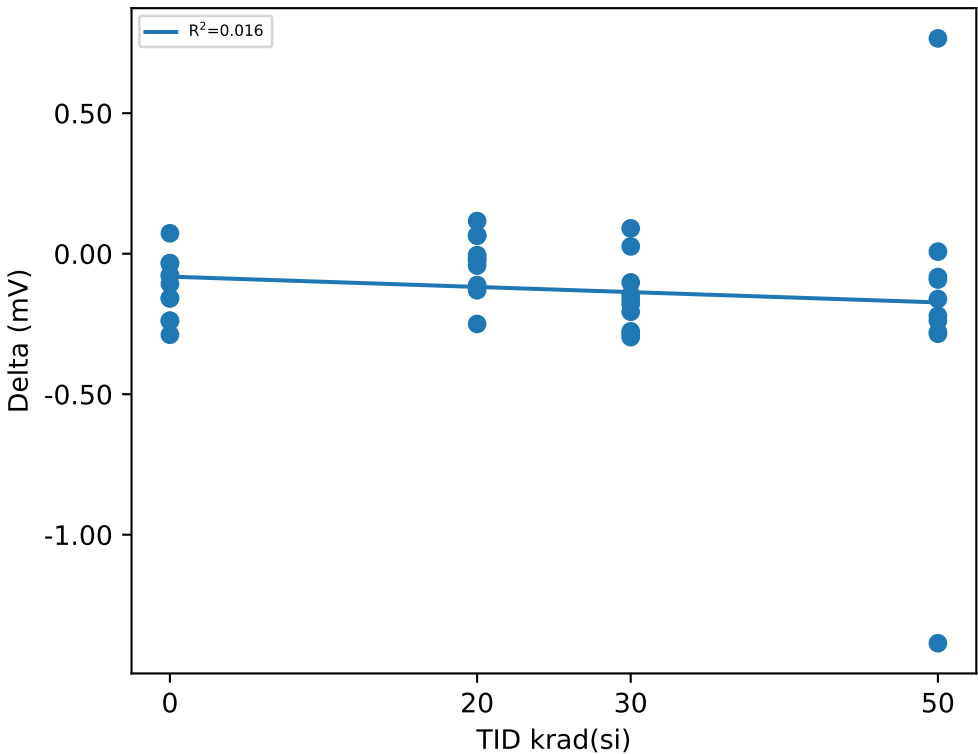
TID vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	238.31	238.03	-0.2885
516	0	CORRELATION	237.36	237.25	-0.1074
721	0	CORRELATION	237.52	237.59	0.0727
723	0	CORRELATION	236.08	236	-0.0768
729	0	CORRELATION	237	236.76	-0.2386
990	20	Unbiased	237.67	237.42	-0.2499
991	20	Unbiased	235.89	235.76	-0.1301
992	20	Unbiased	235.79	235.91	0.1163
993	20	Unbiased	235.88	235.87	-0.0048
994	20	Unbiased	236.23	236.12	-0.1116
995	20	Biased	236.11	236.17	0.0643
996	20	Biased	238.49	238.56	0.0653
997	20	Biased	236.99	236.96	-0.0228
998	20	Biased	236.11	236.07	-0.0421
999	20	Biased	236.53	236.51	-0.0185
1020	30	Unbiased	238.04	238.13	0.0902
1021	30	Unbiased	236.92	236.95	0.026
1022	30	Unbiased	236.31	236.13	-0.1788
1023	30	Unbiased	238.36	238.22	-0.1451
1024	30	Unbiased	235.75	235.46	-0.2833
1025	30	Biased	237.81	237.61	-0.2065
1026	30	Biased	236.86	236.59	-0.2763
1027	30	Biased	235.84	235.55	-0.2968
1028	30	Biased	235.08	234.92	-0.1613
1029	30	Biased	237.35	237.25	-0.1021
1030	50	Unbiased	235.38	235.22	-0.1613
1031	50	Unbiased	238.49	238.5	0.0074
1032	50	Unbiased	234.88	234.8	-0.083
1033	50	Unbiased	235.53	235.31	-0.2208
1034	50	Unbiased	234.91	234.82	-0.092
1035	50	Biased-84Hr-Anneal	237.02	236.73	-0.2847
1036	50	Biased-84Hr-Anneal	237.29	237.01	-0.2799
1037	50	Biased-84Hr-Anneal	236.61	236.37	-0.238
1038	50	Biased-84Hr-Anneal	236.82	237.59	0.7662
1039	50	Biased-84Hr-Anneal	237.98	236.6	-1.386

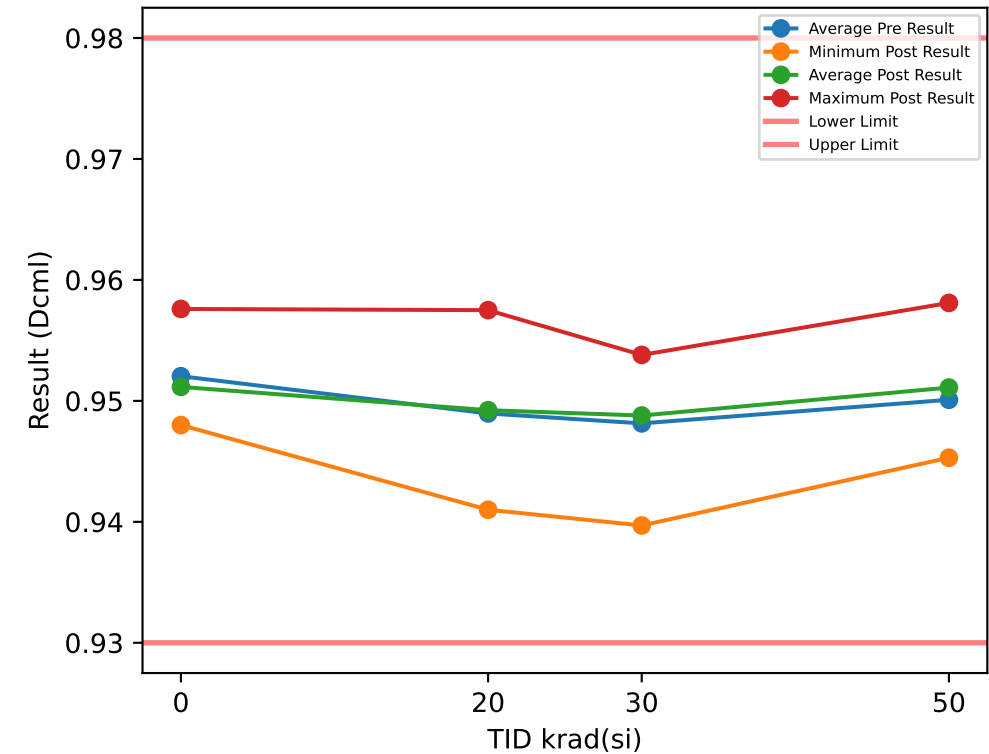
TID vs Post - Pre Exposure Delta



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	236.08	237.25	238.31	0.81511	236	237.13	238.03	0.78181	-0.2885	-0.12772	0.0727	0.14258
20	235.79	236.57	238.49	0.89247	235.76	236.54	238.56	0.88288	-0.2499	-0.03339	0.1163	0.10815
30	235.08	236.83	238.36	1.0821	234.92	236.68	238.22	1.1498	-0.2968	-0.1534	0.0902	0.12923
50	234.88	236.49	238.49	1.2715	234.8	236.29	238.5	1.2436	-1.386	-0.19721	0.7662	0.51912

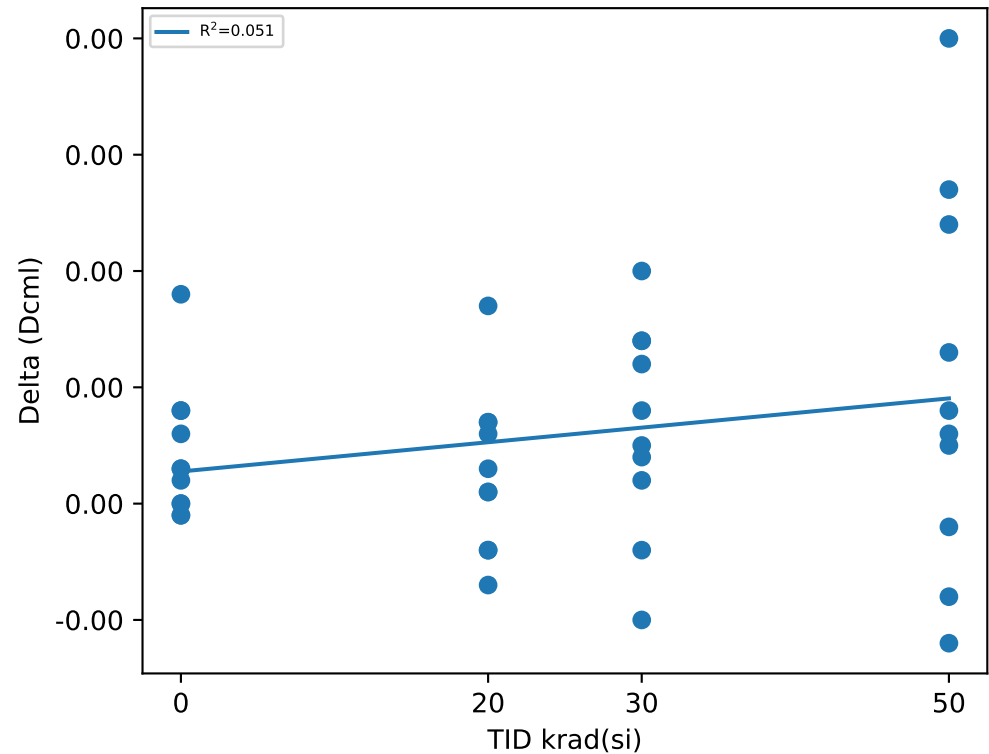
TID vs Result Stats



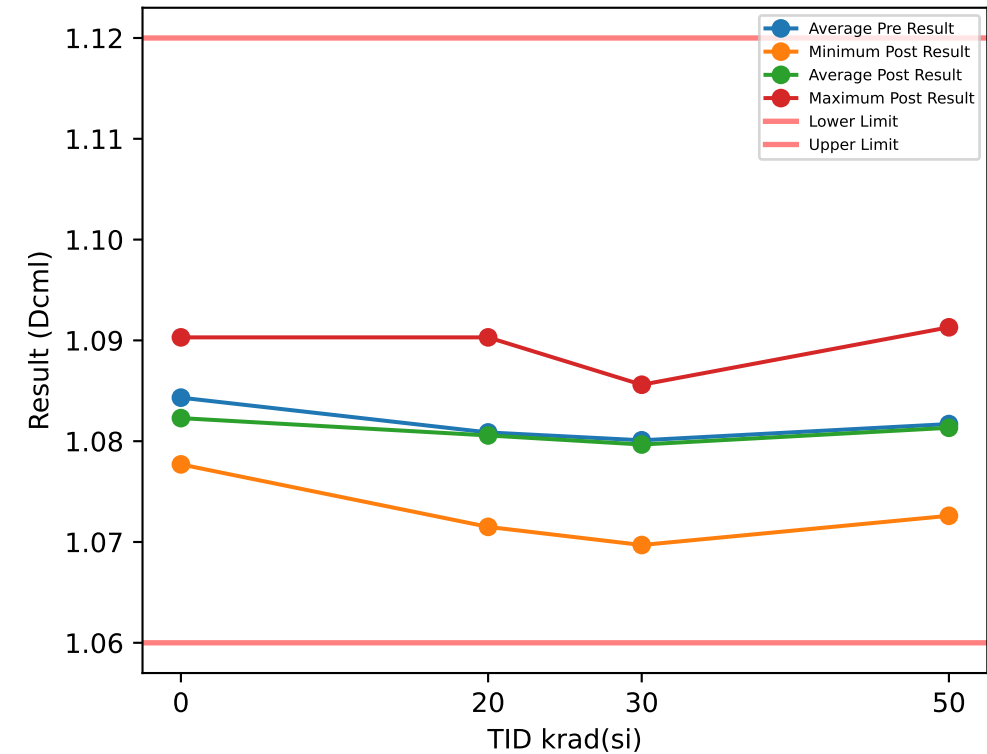
Test Results (Lower Limit = 0.93, Upper Limit = 0.98 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.957	0.9576	0.0006
516	0	CORRELATION	0.9555	0.9573	0.0018
721	0	CORRELATION	0.9484	0.9486	0.0002
723	0	CORRELATION	0.948	0.948	0
729	0	CORRELATION	0.9513	0.9512	-0.0001
990	20	Unbiased	0.9484	0.9477	-0.0007
991	20	Unbiased	0.9562	0.9563	0.0001
992	20	Unbiased	0.9482	0.9485	0.0003
993	20	Unbiased	0.9465	0.9466	0.0001
994	20	Unbiased	0.9521	0.9528	0.0007
995	20	Biased	0.9492	0.9509	0.0017
996	20	Biased	0.9502	0.9498	-0.0004
997	20	Biased	0.9403	0.941	0.0007
998	20	Biased	0.9569	0.9575	0.0006
999	20	Biased	0.9416	0.9412	-0.0004
1020	30	Unbiased	0.945	0.9446	-0.0004
1021	30	Unbiased	0.9462	0.9476	0.0014
1022	30	Unbiased	0.9526	0.9516	-0.001
1023	30	Unbiased	0.9507	0.9515	0.0008
1024	30	Unbiased	0.9518	0.9538	0.002
1025	30	Biased	0.952	0.9524	0.0004
1026	30	Biased	0.9505	0.9507	0.0002
1027	30	Biased	0.9413	0.9427	0.0014
1028	30	Biased	0.9521	0.9533	0.0012
1029	30	Biased	0.9392	0.9397	0.0005
1030	50	Unbiased	0.9481	0.9494	0.0013
1031	50	Unbiased	0.9528	0.9555	0.0027
1032	50	Unbiased	0.9455	0.9453	-0.0002
1033	50	Unbiased	0.9462	0.9486	0.0024
1034	50	Unbiased	0.9481	0.9486	0.0005
1035	50	Biased-84Hr-Anneal	0.9534	0.9522	-0.0012
1036	50	Biased-84Hr-Anneal	0.9507	0.9513	0.0006
1037	50	Biased-84Hr-Anneal	0.9452	0.946	0.0008
1038	50	Biased-84Hr-Anneal	0.9568	0.956	-0.0008
1039	50	Biased-84Hr-Anneal	0.9541	0.9581	0.004

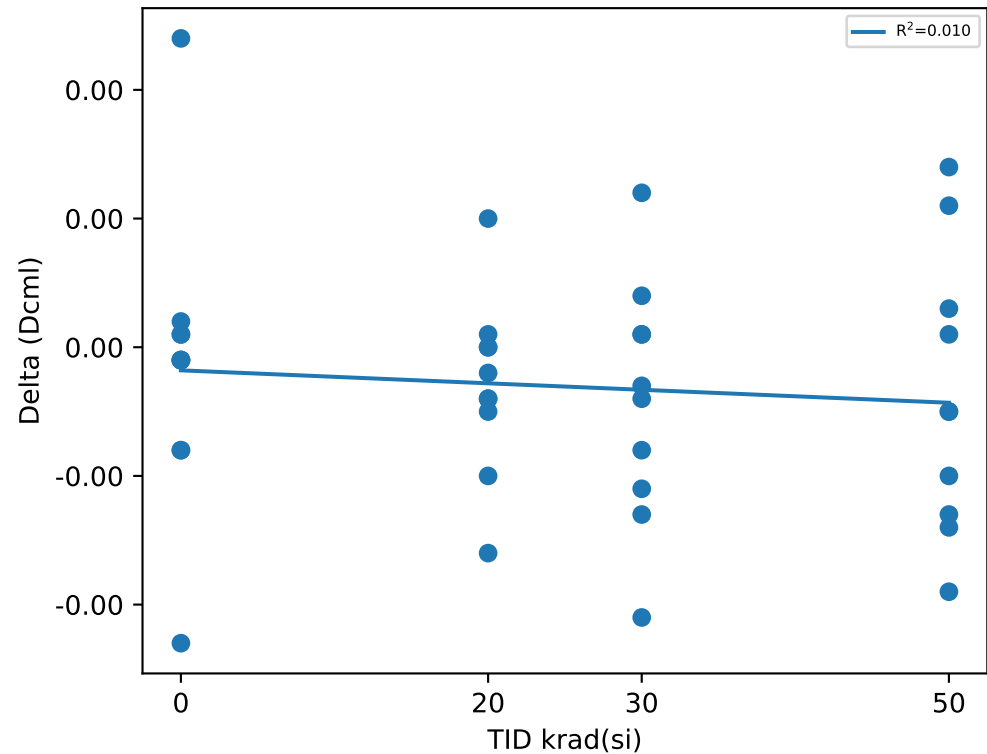
TID vs Post - Pre Exposure Delta



TID vs Result Stats



TID vs Post - Pre Exposure Delta



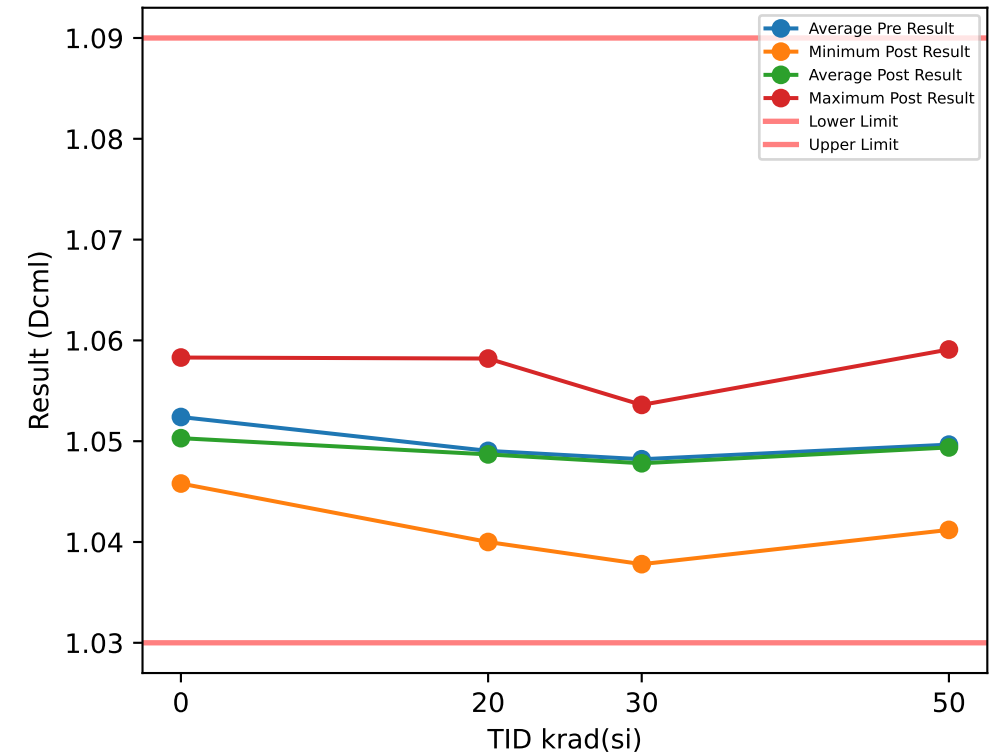
Test Results (Lower Limit = 1.06, Upper Limit = 1.12 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.0904	1.0881	-0.0023
516	0	CORRELATION	1.0879	1.0903	0.0024
721	0	CORRELATION	1.0816	1.0818	0.0002
723	0	CORRELATION	1.0778	1.0777	-0.0001
729	0	CORRELATION	1.0839	1.0831	-0.0008
990	20	Unbiased	1.0792	1.0776	-0.0016
991	20	Unbiased	1.0873	1.0869	-0.0004
992	20	Unbiased	1.0798	1.0794	-0.0004
993	20	Unbiased	1.0777	1.0777	0
994	20	Unbiased	1.088	1.0875	-0.0005
995	20	Biased	1.0817	1.0815	-0.0002
996	20	Biased	1.0824	1.0814	-0.001
997	20	Biased	1.0709	1.0719	0.001
998	20	Biased	1.0902	1.0903	0.0001
999	20	Biased	1.0715	1.0715	0
1020	30	Unbiased	1.0769	1.0756	-0.0013
1021	30	Unbiased	1.0804	1.0808	0.0004
1022	30	Unbiased	1.085	1.0829	-0.0021
1023	30	Unbiased	1.0822	1.0818	-0.0004
1024	30	Unbiased	1.0844	1.0856	0.0012
1025	30	Biased	1.0849	1.0841	-0.0008
1026	30	Biased	1.0811	1.08	-0.0011
1027	30	Biased	1.0696	1.0697	0.0001
1028	30	Biased	1.0833	1.0834	0.0001
1029	30	Biased	1.0731	1.0728	-0.0003
1030	50	Unbiased	1.0777	1.0764	-0.0013
1031	50	Unbiased	1.0857	1.0858	0.0001
1032	50	Unbiased	1.0785	1.0775	-0.001
1033	50	Unbiased	1.0776	1.0787	0.0011
1034	50	Unbiased	1.0807	1.081	0.0003
1035	50	Biased-84Hr-Anneal	1.0837	1.0823	-0.0014
1036	50	Biased-84Hr-Anneal	1.0802	1.0797	-0.0005
1037	50	Biased-84Hr-Anneal	1.0731	1.0726	-0.0005
1038	50	Biased-84Hr-Anneal	1.0899	1.088	-0.0019
1039	50	Biased-84Hr-Anneal	1.0899	1.0913	0.0014

Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0778	1.0843	1.0904	0.0049967	1.0777	1.0842	1.0903	0.0050408	-0.0023	-0.00012	0.0024	0.0017079
20	1.0709	1.0809	1.0902	0.0065272	1.0715	1.0806	1.0903	0.0063261	-0.0016	-0.0003	0.001	0.00068961
30	1.0696	1.0801	1.085	0.0052786	1.0697	1.0797	1.0856	0.0052517	-0.0021	-0.00042	0.0012	0.0009461
50	1.0731	1.0817	1.0899	0.0055251	1.0726	1.0813	1.0913	0.0056733	-0.0019	-0.00037	0.0014	0.0010884

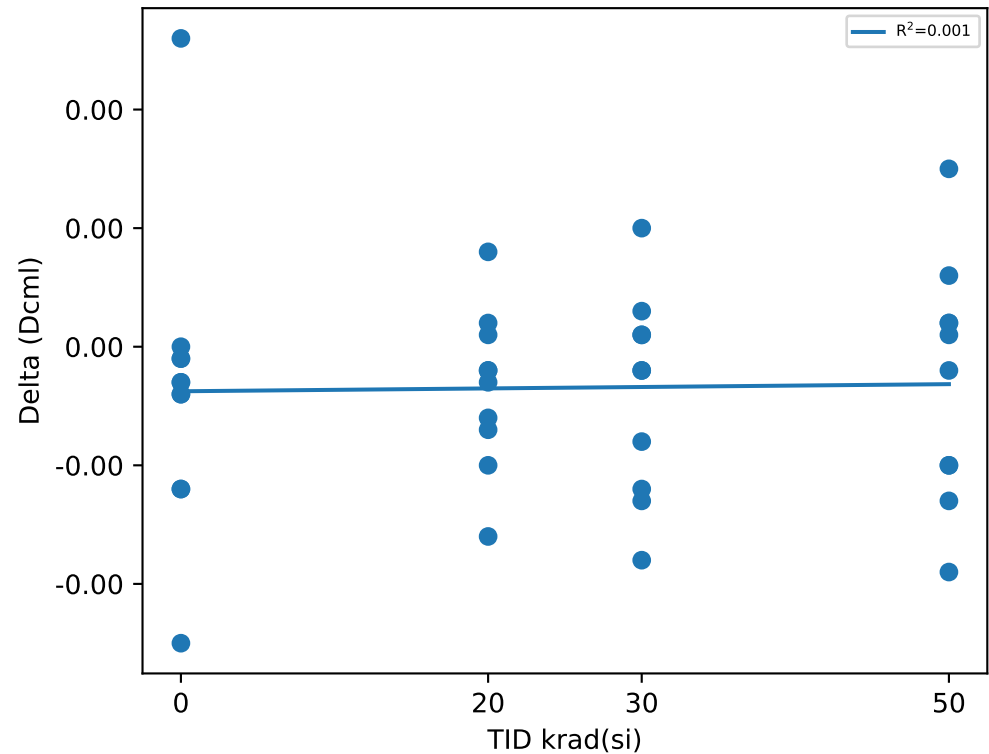
TID vs Result Stats



Test Results (Lower Limit = 1.03, Upper Limit = 1.09 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.0582	1.0557	-0.0025
516	0	CORRELATION	1.0557	1.0583	0.0026
721	0	CORRELATION	1.0497	1.0497	0
723	0	CORRELATION	1.0462	1.0458	-0.0004
729	0	CORRELATION	1.0522	1.051	-0.0012
990	20	Unbiased	1.0473	1.0457	-0.0016
991	20	Unbiased	1.0554	1.0548	-0.0006
992	20	Unbiased	1.0482	1.0475	-0.0007
993	20	Unbiased	1.046	1.0458	-0.0002
994	20	Unbiased	1.0559	1.0556	-0.0003
995	20	Biased	1.0496	1.0494	-0.0002
996	20	Biased	1.0507	1.0497	-0.001
997	20	Biased	1.0394	1.0402	0.0008
998	20	Biased	1.0581	1.0582	0.0001
999	20	Biased	1.0398	1.04	0.0002
1020	30	Unbiased	1.0452	1.0439	-0.0013
1021	30	Unbiased	1.0485	1.0488	0.0003
1022	30	Unbiased	1.0527	1.0509	-0.0018
1023	30	Unbiased	1.0499	1.0497	-0.0002
1024	30	Unbiased	1.0526	1.0536	0.001
1025	30	Biased	1.0532	1.052	-0.0012
1026	30	Biased	1.049	1.0482	-0.0008
1027	30	Biased	1.038	1.0378	-0.0002
1028	30	Biased	1.0516	1.0517	0.0001
1029	30	Biased	1.0414	1.0415	0.0001
1030	50	Unbiased	1.0458	1.0448	-0.001
1031	50	Unbiased	1.0538	1.0536	-0.0002
1032	50	Unbiased	1.0465	1.0455	-0.001
1033	50	Unbiased	1.0459	1.0465	0.0006
1034	50	Unbiased	1.0488	1.0489	0.0001
1035	50	Biased-84Hr-Anneal	1.0515	1.0502	-0.0013
1036	50	Biased-84Hr-Anneal	1.0479	1.0481	0.0002
1037	50	Biased-84Hr-Anneal	1.041	1.0412	0.0002
1038	50	Biased-84Hr-Anneal	1.0578	1.0559	-0.0019
1039	50	Biased-84Hr-Anneal	1.0576	1.0591	0.0015

TID vs Post - Pre Exposure Delta

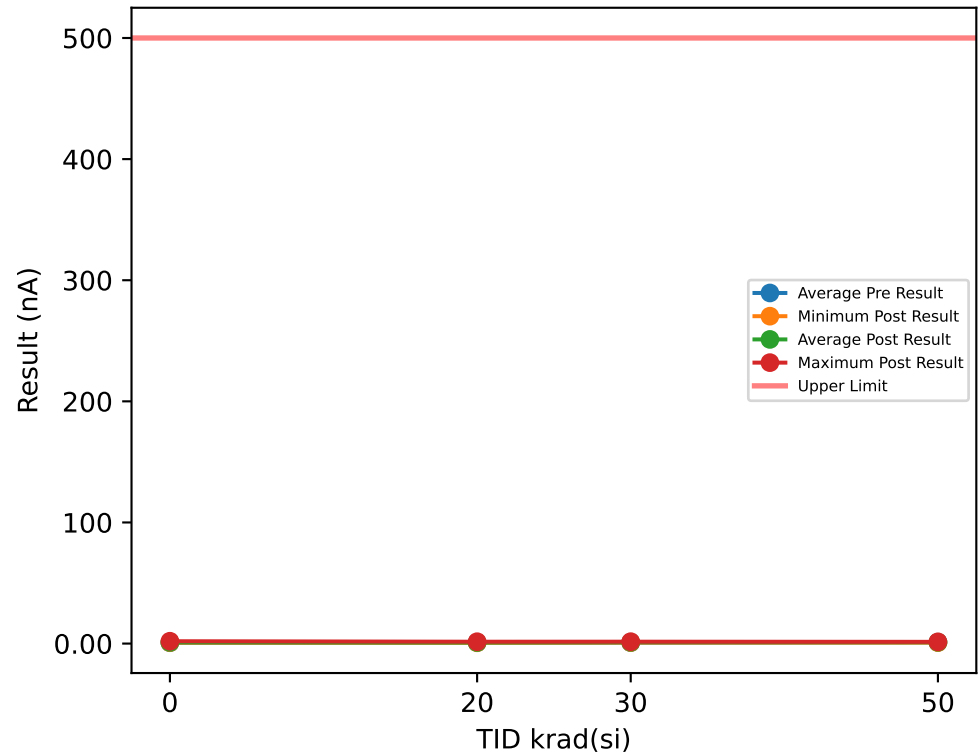


Test Statistics (Dcml)

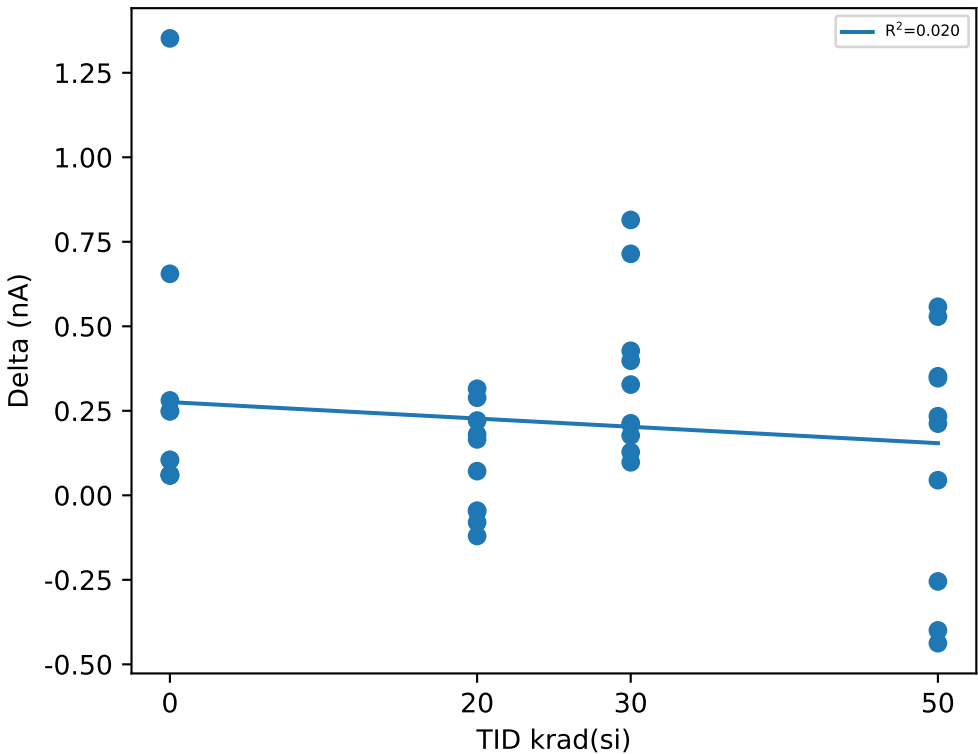
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0462	1.0524	1.0582	0.0047513	1.0458	1.0521	1.0583	0.0049513	-0.0025	-0.0003	0.0026	0.0018815
20	1.0394	1.049	1.0581	0.0063591	1.04	1.0487	1.0582	0.0061766	-0.0016	-0.00035	0.0008	0.00067041
30	1.038	1.0482	1.0532	0.005154	1.0378	1.0478	1.0536	0.0051183	-0.0018	-0.0004	0.001	0.00085635
50	1.041	1.0497	1.0578	0.0054537	1.0412	1.0494	1.0591	0.0054628	-0.0019	-0.00028	0.0015	0.0010141

Device Test: 23.6 LEAK|MAX/PWRGD/4.5////@PWRGD_OUTPUT_HIGH_LEAK

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 500.0 (nA))

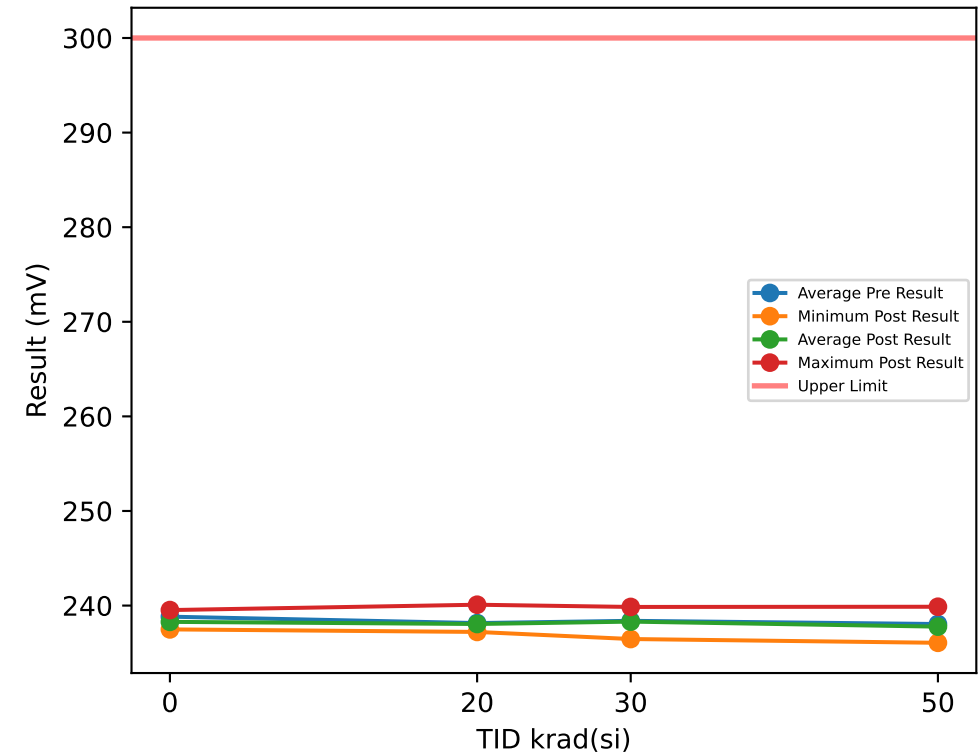
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.5879	1.9396	1.3517
516	0	CORRELATION	0.6723	0.9531	0.2808
721	0	CORRELATION	0.8345	1.4898	0.6553
723	0	CORRELATION	0.7608	1.0096	0.2488
729	0	CORRELATION	0.6612	0.72	0.0588
990	20	Unbiased	0.823	0.8945	0.0715
991	20	Unbiased	1.3126	1.5338	0.2212
992	20	Unbiased	0.744	0.9094	0.1654
993	20	Unbiased	0.7627	0.7172	-0.0455
994	20	Unbiased	0.5959	0.8845	0.2886
995	20	Biased	0.8941	0.847	-0.0471
996	20	Biased	0.7971	0.7172	-0.0799
997	20	Biased	0.6191	0.9344	0.3153
998	20	Biased	0.8323	1.0125	0.1802
999	20	Biased	0.7629	0.6425	-0.1204
1020	30	Unbiased	0.897	1.2246	0.3276
1021	30	Unbiased	0.7221	1.5367	0.8146
1022	30	Unbiased	0.7004	0.798	0.0976
1023	30	Unbiased	0.6909	0.9039	0.213
1024	30	Unbiased	0.7919	0.9688	0.1769
1025	30	Biased	0.8441	1.5585	0.7144
1026	30	Biased	0.7502	1.1777	0.4275
1027	30	Biased	0.6145	1.0127	0.3982
1028	30	Biased	0.8628	1.0718	0.209
1029	30	Biased	0.7565	0.8845	0.128
1030	50	Unbiased	0.8534	1.1998	0.3464
1031	50	Unbiased	0.8252	1.0593	0.2341
1032	50	Unbiased	0.8002	1.358	0.5578
1033	50	Unbiased	0.8976	1.2497	0.3521
1034	50	Unbiased	1.2157	1.4277	0.212
1035	50	Biased-84Hr-Anneal	1.1697	0.7701	-0.3996
1036	50	Biased-84Hr-Anneal	0.9334	0.9781	0.0447
1037	50	Biased-84Hr-Anneal	1.3289	0.8914	-0.4375
1038	50	Biased-84Hr-Anneal	0.7867	1.3153	0.5286
1039	50	Biased-84Hr-Anneal	1.3234	1.0687	-0.2547

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	0.5879	0.70334	0.8345	0.095617	0.72	1.2224	1.9396	0.4889	0.0588	0.51908	1.3517	0.5132
20	0.5959	0.81437	1.3126	0.1976	0.6425	0.9093	1.5338	0.24743	-0.1204	0.09493	0.3153	0.16043
30	0.6145	0.76304	0.897	0.087163	0.798	1.1137	1.5585	0.26296	0.0976	0.35068	0.8146	0.24474
50	0.7867	1.0134	1.3289	0.22077	0.7701	1.1318	1.4277	0.21406	-0.4375	0.11839	0.5578	0.36698

Device Test: 23.7 VOL|2mA/PWRGD/4.5////@PWRGD_OUTPUT_LOW

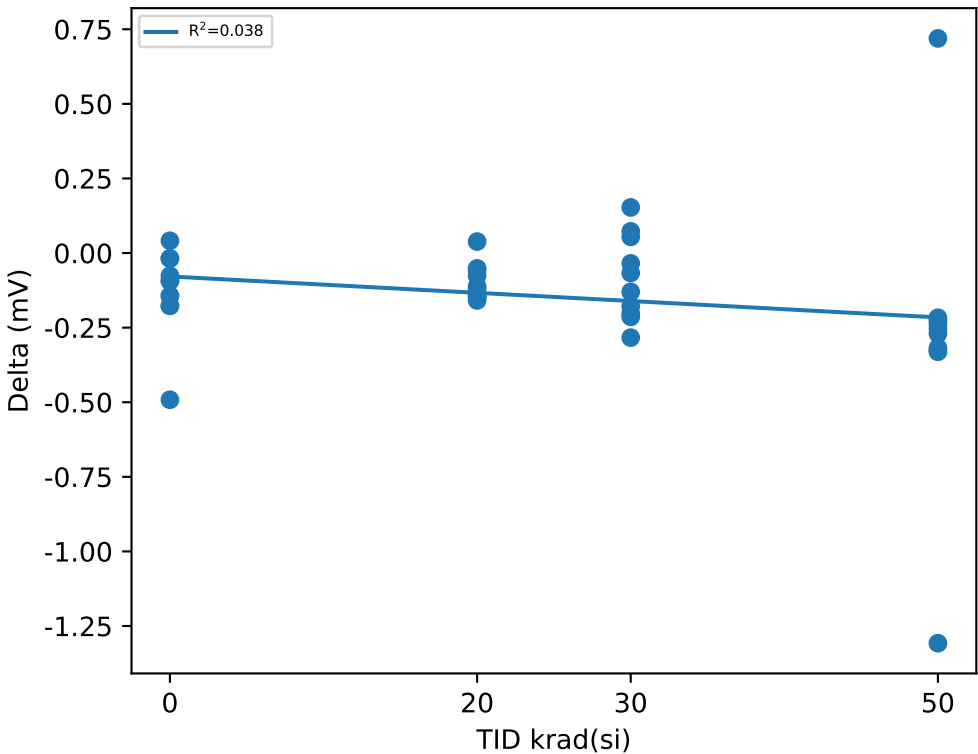
TID vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	240.02	239.52	-0.4916
516	0	CORRELATION	238.95	238.88	-0.076
721	0	CORRELATION	239.06	239.11	0.0413
723	0	CORRELATION	237.58	237.48	-0.0931
729	0	CORRELATION	238.53	238.35	-0.1767
990	20	Unbiased	239.06	238.92	-0.1406
991	20	Unbiased	237.36	237.21	-0.1458
992	20	Unbiased	237.39	237.42	0.0385
993	20	Unbiased	237.47	237.42	-0.0514
994	20	Unbiased	237.75	237.59	-0.1588
995	20	Biased	237.75	237.67	-0.0761
996	20	Biased	240.15	240.09	-0.0593
997	20	Biased	238.74	238.59	-0.1479
998	20	Biased	237.64	237.52	-0.1203
999	20	Biased	238.2	238.09	-0.1119
1020	30	Unbiased	239.63	239.79	0.1529
1021	30	Unbiased	238.39	238.46	0.0727
1022	30	Unbiased	237.89	237.71	-0.179
1023	30	Unbiased	239.92	239.86	-0.0669
1024	30	Unbiased	237.39	237.1	-0.2836
1025	30	Biased	239.3	239.26	-0.0347
1026	30	Biased	238.39	238.18	-0.2138
1027	30	Biased	237.4	237.2	-0.203
1028	30	Biased	236.59	236.46	-0.1301
1029	30	Biased	238.96	239.02	0.0543
1030	50	Unbiased	237.06	236.75	-0.3176
1031	50	Unbiased	240.1	239.88	-0.2266
1032	50	Unbiased	236.63	236.36	-0.2702
1033	50	Unbiased	236.98	236.75	-0.2367
1034	50	Unbiased	236.28	236.07	-0.2168
1035	50	Biased-84Hr-Anneal	238.56	238.23	-0.3309
1036	50	Biased-84Hr-Anneal	238.88	238.56	-0.3267
1037	50	Biased-84Hr-Anneal	238.05	237.79	-0.253
1038	50	Biased-84Hr-Anneal	238.43	239.15	0.7194
1039	50	Biased-84Hr-Anneal	239.53	238.22	-1.3076

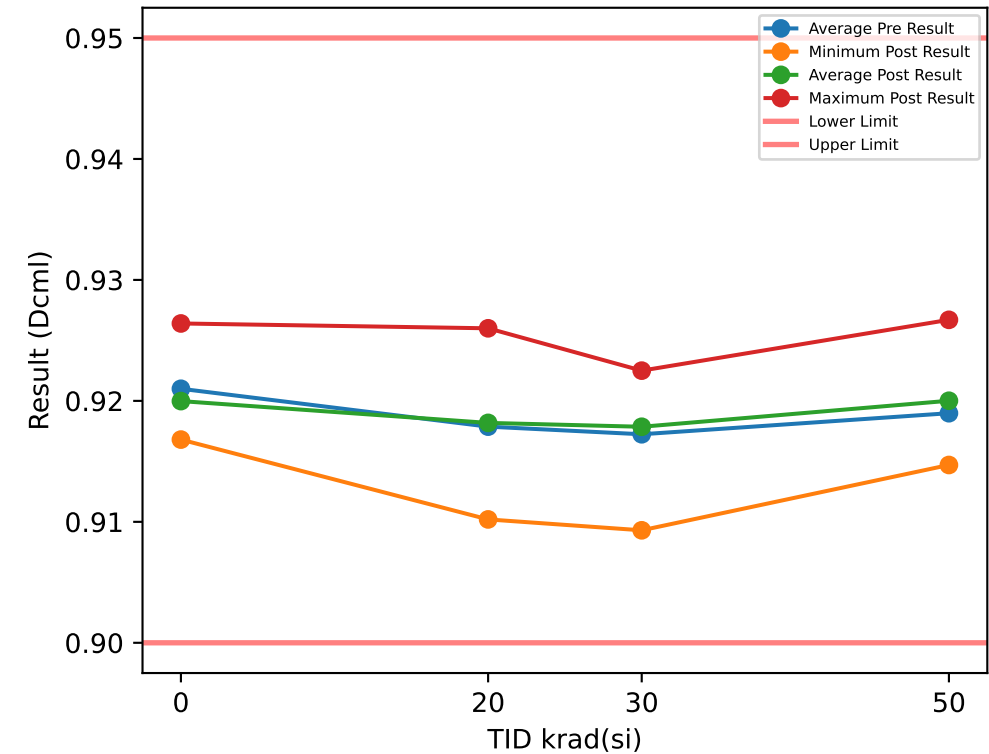
TID vs Post - Pre Exposure Delta



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	237.58	238.83	240.02	0.88628	237.48	238.67	239.52	0.7865	-0.4916	-0.15922	0.0413	0.20142
20	237.36	238.15	240.15	0.90831	237.21	238.05	240.09	0.90272	-0.1588	-0.09736	0.0385	0.061241
30	236.59	238.39	239.92	1.0799	236.46	238.3	239.86	1.1769	-0.2836	-0.08312	0.1529	0.14319
50	236.28	238.05	240.1	1.2808	236.07	237.77	239.88	1.2639	-1.3076	-0.27667	0.7194	0.47963

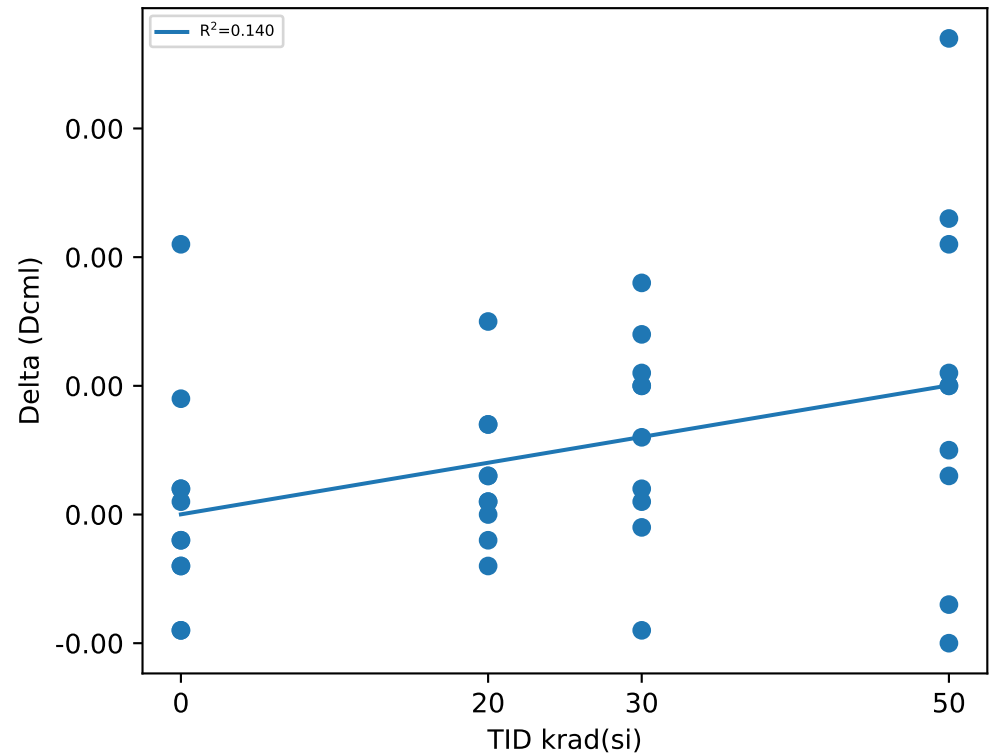
TID vs Result Stats



Test Results (Lower Limit = 0.9, Upper Limit = 0.95 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.9255	0.9264	0.0009
516	0	CORRELATION	0.924	0.9261	0.0021
721	0	CORRELATION	0.9174	0.9175	0.0001
723	0	CORRELATION	0.9172	0.917	-0.0002
729	0	CORRELATION	0.9209	0.92	-0.0009
990	20	Unbiased	0.9173	0.9169	-0.0004
991	20	Unbiased	0.9247	0.9248	0.0001
992	20	Unbiased	0.9169	0.9176	0.0007
993	20	Unbiased	0.9157	0.9158	0.0001
994	20	Unbiased	0.9213	0.9216	0.0003
995	20	Biased	0.9181	0.9196	0.0015
996	20	Biased	0.9189	0.9187	-0.0002
997	20	Biased	0.9095	0.9102	0.0007
998	20	Biased	0.9257	0.926	0.0003
999	20	Biased	0.9106	0.9106	0
1020	30	Unbiased	0.9143	0.9142	-0.0001
1021	30	Unbiased	0.9153	0.9167	0.0014
1022	30	Unbiased	0.9213	0.9204	-0.0009
1023	30	Unbiased	0.9198	0.9204	0.0006
1024	30	Unbiased	0.9214	0.9225	0.0011
1025	30	Biased	0.9209	0.921	0.0001
1026	30	Biased	0.9193	0.9195	0.0002
1027	30	Biased	0.9105	0.9123	0.0018
1028	30	Biased	0.9213	0.9223	0.001
1029	30	Biased	0.9083	0.9093	0.001
1030	50	Unbiased	0.9173	0.9183	0.001
1031	50	Unbiased	0.9217	0.924	0.0023
1032	50	Unbiased	0.9144	0.9147	0.0003
1033	50	Unbiased	0.9154	0.9175	0.0021
1034	50	Unbiased	0.917	0.9175	0.0005
1035	50	Biased-84Hr-Anneal	0.9221	0.9214	-0.0007
1036	50	Biased-84Hr-Anneal	0.9192	0.9203	0.0011
1037	50	Biased-84Hr-Anneal	0.9142	0.9152	0.001
1038	50	Biased-84Hr-Anneal	0.9255	0.9245	-0.001
1039	50	Biased-84Hr-Anneal	0.923	0.9267	0.0037

TID vs Post - Pre Exposure Delta

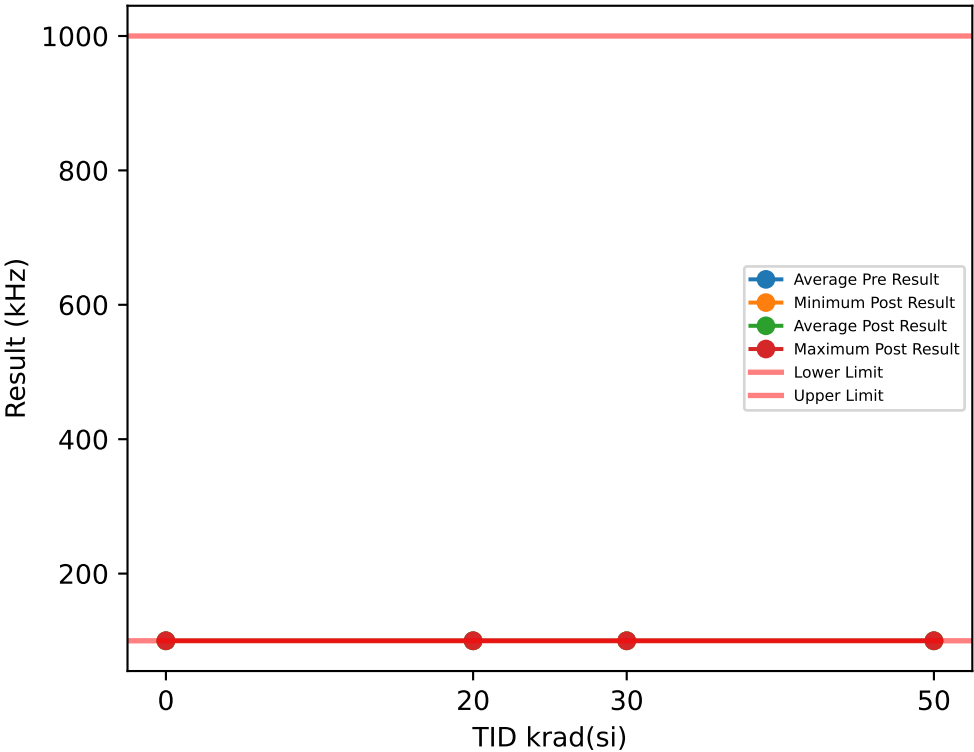


Test Statistics (Dcml)

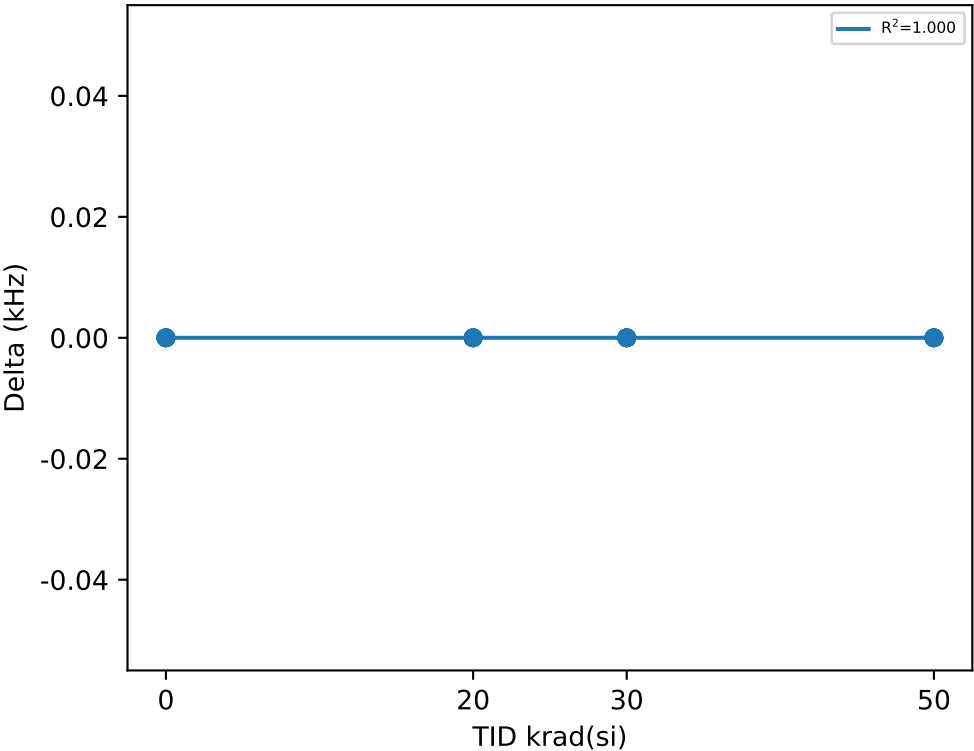
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9172	0.921	0.9255	0.0037636	0.917	0.9214	0.9264	0.0045722	-0.0009	0.0004	0.0021	0.0011489
20	0.9095	0.91787	0.9257	0.0052675	0.9102	0.91818	0.926	0.0052465	-0.0004	0.00031	0.0015	0.00054457
30	0.9083	0.91724	0.9214	0.004856	0.9093	0.91786	0.9225	0.0045415	-0.0009	0.00062	0.0018	0.0008025
50	0.9142	0.91898	0.9255	0.0039333	0.9147	0.92001	0.9267	0.0040785	-0.001	0.00103	0.0037	0.0014072

Device Test: 24.1 FREQ|100kHz/SYNC1/4.5//OPEN//@SYNC_FREQ_RANGE

TID vs Result Stats



TID vs Post - Pre Exposure Delta



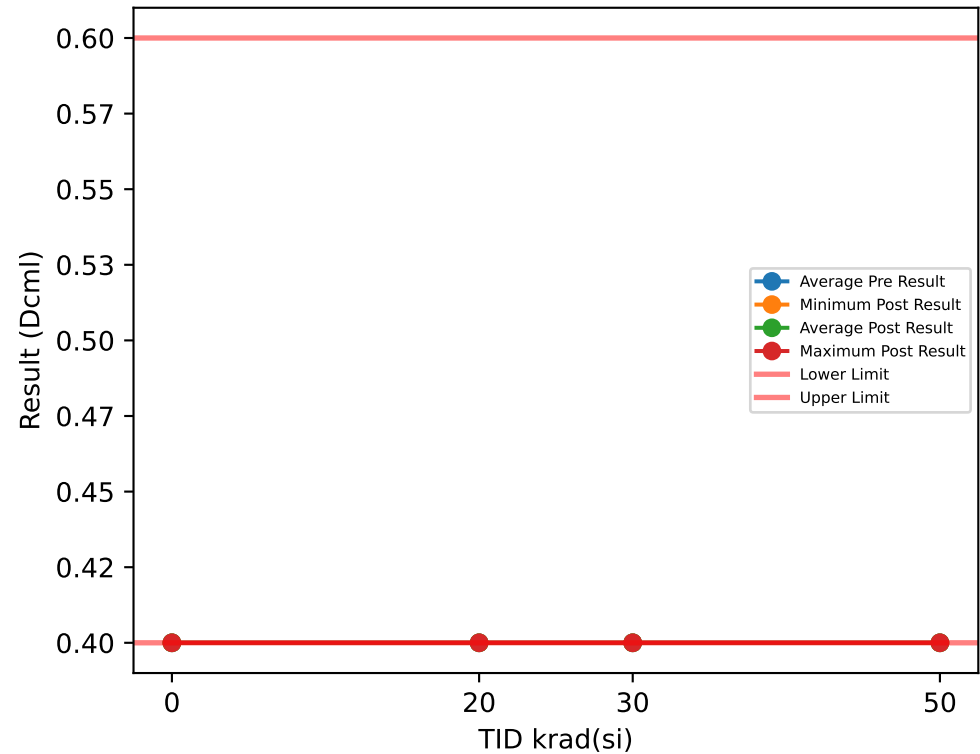
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	100	100	0
516	0	CORRELATION	100	100	0
721	0	CORRELATION	100	100	0
723	0	CORRELATION	100	100	0
729	0	CORRELATION	100	100	0
990	20	Unbiased	100	100	0
991	20	Unbiased	100	100	0
992	20	Unbiased	100	100	0
993	20	Unbiased	100	100	0
994	20	Unbiased	100	100	0
995	20	Biased	100	100	0
996	20	Biased	100	100	0
997	20	Biased	100	100	0
998	20	Biased	100	100	0
999	20	Biased	100	100	0
1020	30	Unbiased	100	100	0
1021	30	Unbiased	100	100	0
1022	30	Unbiased	100	100	0
1023	30	Unbiased	100	100	0
1024	30	Unbiased	100	100	0
1025	30	Biased	100	100	0
1026	30	Biased	100	100	0
1027	30	Biased	100	100	0
1028	30	Biased	100	100	0
1029	30	Biased	100	100	0
1030	50	Unbiased	100	100	0
1031	50	Unbiased	100	100	0
1032	50	Unbiased	100	100	0
1033	50	Unbiased	100	100	0
1034	50	Unbiased	100	100	0
1035	50	Biased-84Hr-Anneal	100	100	0
1036	50	Biased-84Hr-Anneal	100	100	0
1037	50	Biased-84Hr-Anneal	100	100	0
1038	50	Biased-84Hr-Anneal	100	100	0
1039	50	Biased-84Hr-Anneal	100	100	0

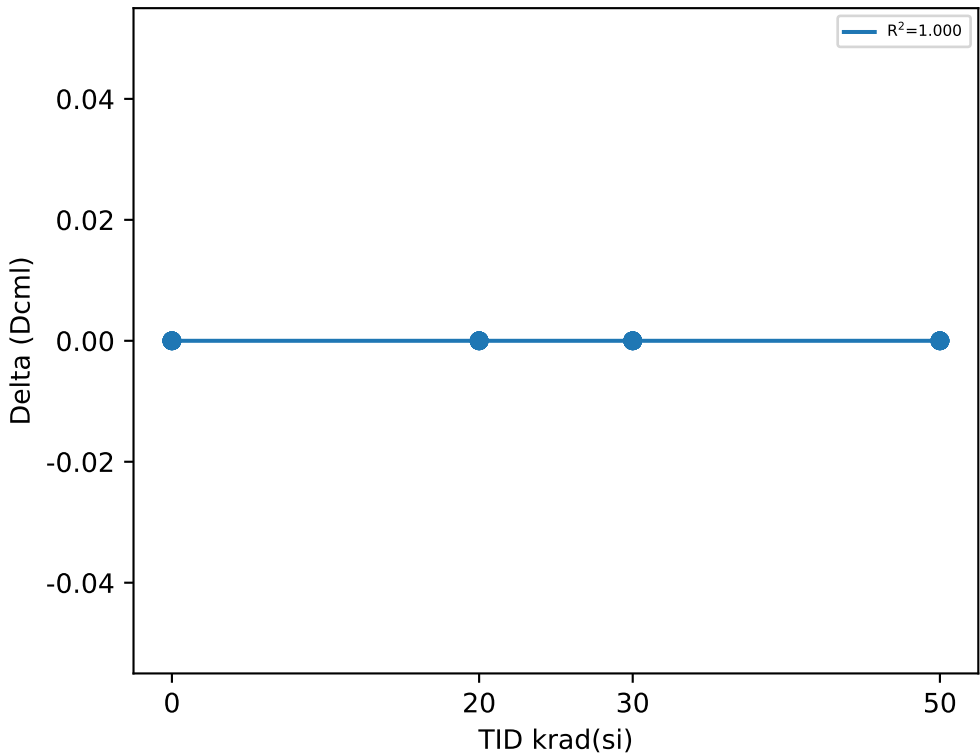
Test Statistics (kHz)

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	100	100	100	0	0	0	0	0
20	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



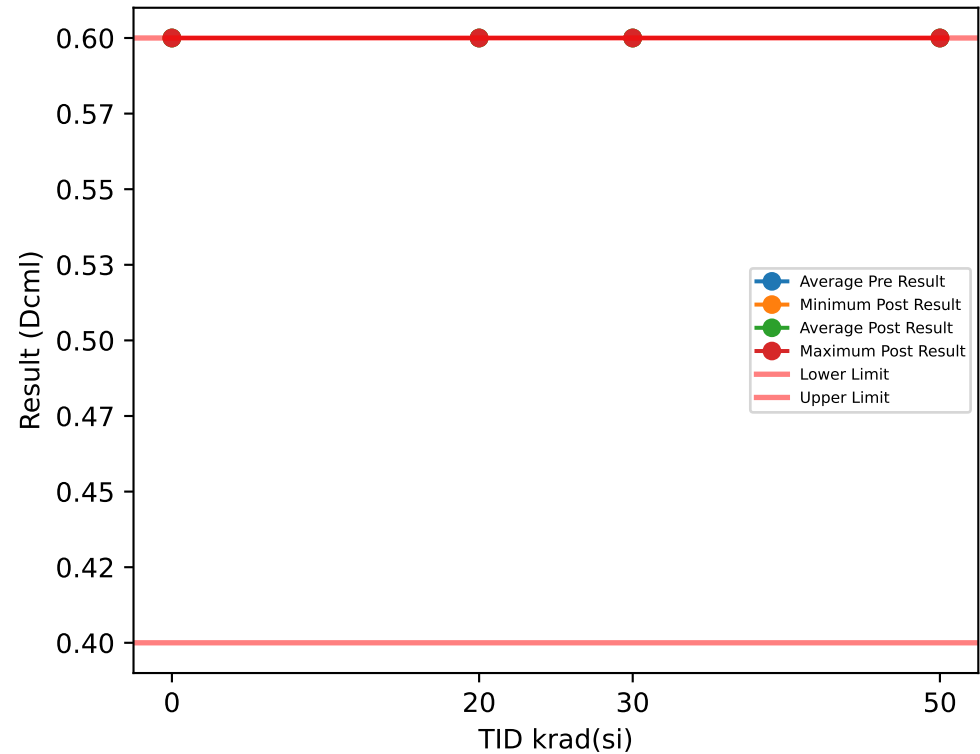
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.4	0.4	0
516	0	CORRELATION	0.4	0.4	0
721	0	CORRELATION	0.4	0.4	0
723	0	CORRELATION	0.4	0.4	0
729	0	CORRELATION	0.4	0.4	0
990	20	Unbiased	0.4	0.4	0
991	20	Unbiased	0.4	0.4	0
992	20	Unbiased	0.4	0.4	0
993	20	Unbiased	0.4	0.4	0
994	20	Unbiased	0.4	0.4	0
995	20	Biased	0.4	0.4	0
996	20	Biased	0.4	0.4	0
997	20	Biased	0.4	0.4	0
998	20	Biased	0.4	0.4	0
999	20	Biased	0.4	0.4	0
1020	30	Unbiased	0.4	0.4	0
1021	30	Unbiased	0.4	0.4	0
1022	30	Unbiased	0.4	0.4	0
1023	30	Unbiased	0.4	0.4	0
1024	30	Unbiased	0.4	0.4	0
1025	30	Biased	0.4	0.4	0
1026	30	Biased	0.4	0.4	0
1027	30	Biased	0.4	0.4	0
1028	30	Biased	0.4	0.4	0
1029	30	Biased	0.4	0.4	0
1030	50	Unbiased	0.4	0.4	0
1031	50	Unbiased	0.4	0.4	0
1032	50	Unbiased	0.4	0.4	0
1033	50	Unbiased	0.4	0.4	0
1034	50	Unbiased	0.4	0.4	0
1035	50	Biased-84Hr-Anneal	0.4	0.4	0
1036	50	Biased-84Hr-Anneal	0.4	0.4	0
1037	50	Biased-84Hr-Anneal	0.4	0.4	0
1038	50	Biased-84Hr-Anneal	0.4	0.4	0
1039	50	Biased-84Hr-Anneal	0.4	0.4	0

Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
20	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
30	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
50	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

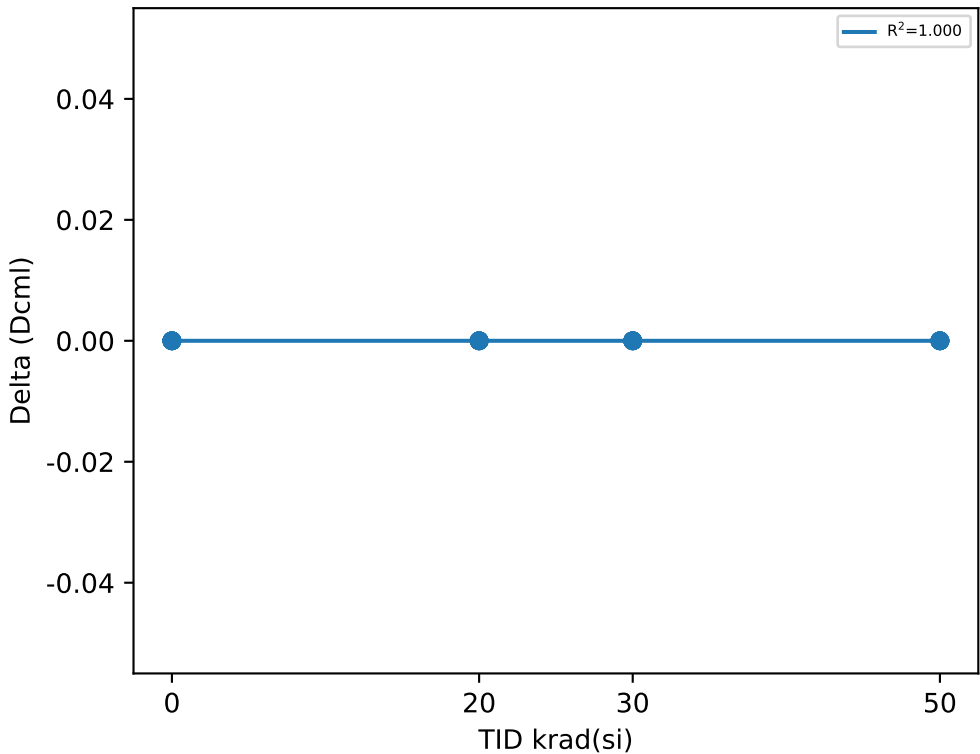
TID vs Result Stats



Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6	0.6	0
516	0	CORRELATION	0.6	0.6	0
721	0	CORRELATION	0.6	0.6	0
723	0	CORRELATION	0.6	0.6	0
729	0	CORRELATION	0.6	0.6	0
990	20	Unbiased	0.6	0.6	0
991	20	Unbiased	0.6	0.6	0
992	20	Unbiased	0.6	0.6	0
993	20	Unbiased	0.6	0.6	0
994	20	Unbiased	0.6	0.6	0
995	20	Biased	0.6	0.6	0
996	20	Biased	0.6	0.6	0
997	20	Biased	0.6	0.6	0
998	20	Biased	0.6	0.6	0
999	20	Biased	0.6	0.6	0
1020	30	Unbiased	0.6	0.6	0
1021	30	Unbiased	0.6	0.6	0
1022	30	Unbiased	0.6	0.6	0
1023	30	Unbiased	0.6	0.6	0
1024	30	Unbiased	0.6	0.6	0
1025	30	Biased	0.6	0.6	0
1026	30	Biased	0.6	0.6	0
1027	30	Biased	0.6	0.6	0
1028	30	Biased	0.6	0.6	0
1029	30	Biased	0.6	0.6	0
1030	50	Unbiased	0.6	0.6	0
1031	50	Unbiased	0.6	0.6	0
1032	50	Unbiased	0.6	0.6	0
1033	50	Unbiased	0.6	0.6	0
1034	50	Unbiased	0.6	0.6	0
1035	50	Biased-84Hr-Anneal	0.6	0.6	0
1036	50	Biased-84Hr-Anneal	0.6	0.6	0
1037	50	Biased-84Hr-Anneal	0.6	0.6	0
1038	50	Biased-84Hr-Anneal	0.6	0.6	0
1039	50	Biased-84Hr-Anneal	0.6	0.6	0

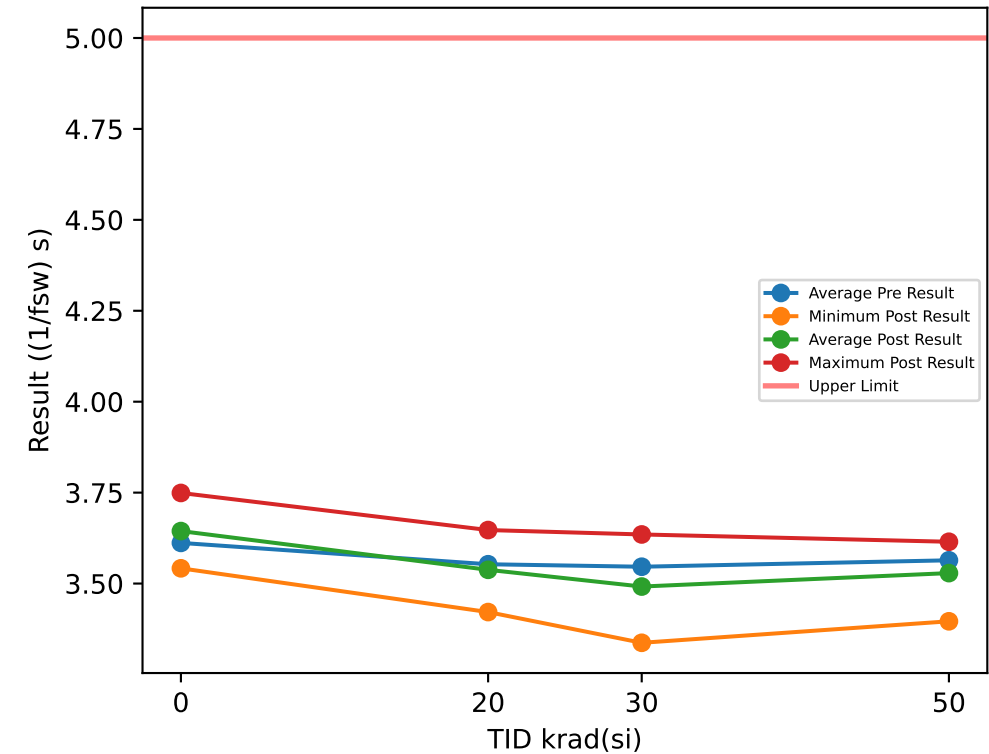
TID vs Post - Pre Exposure Delta



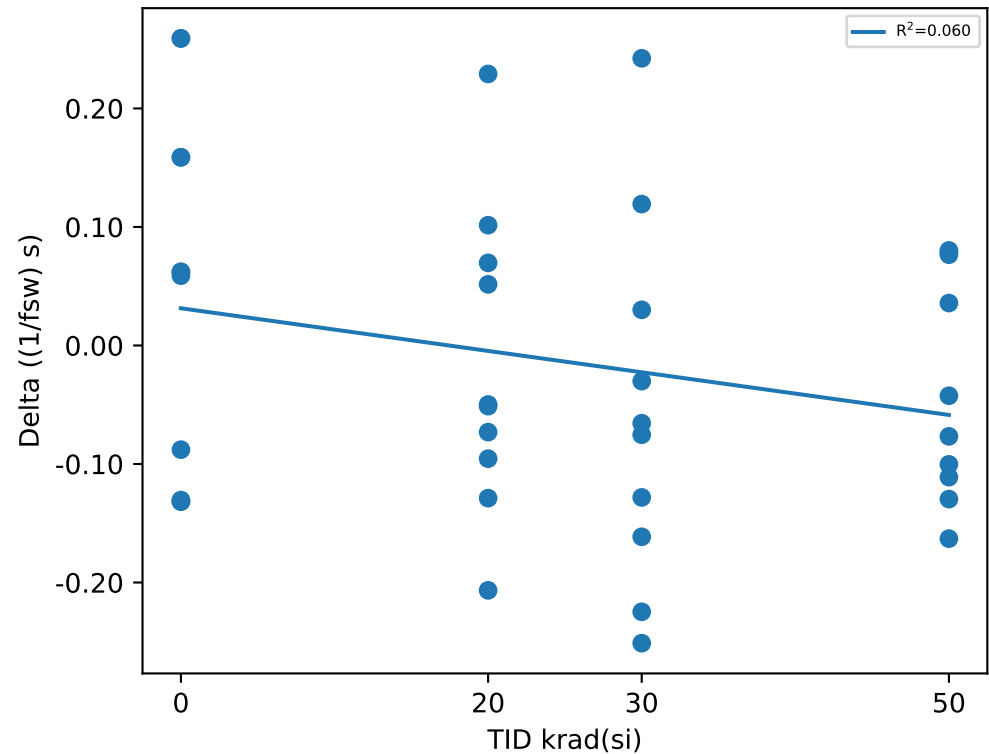
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
20	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
30	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
50	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



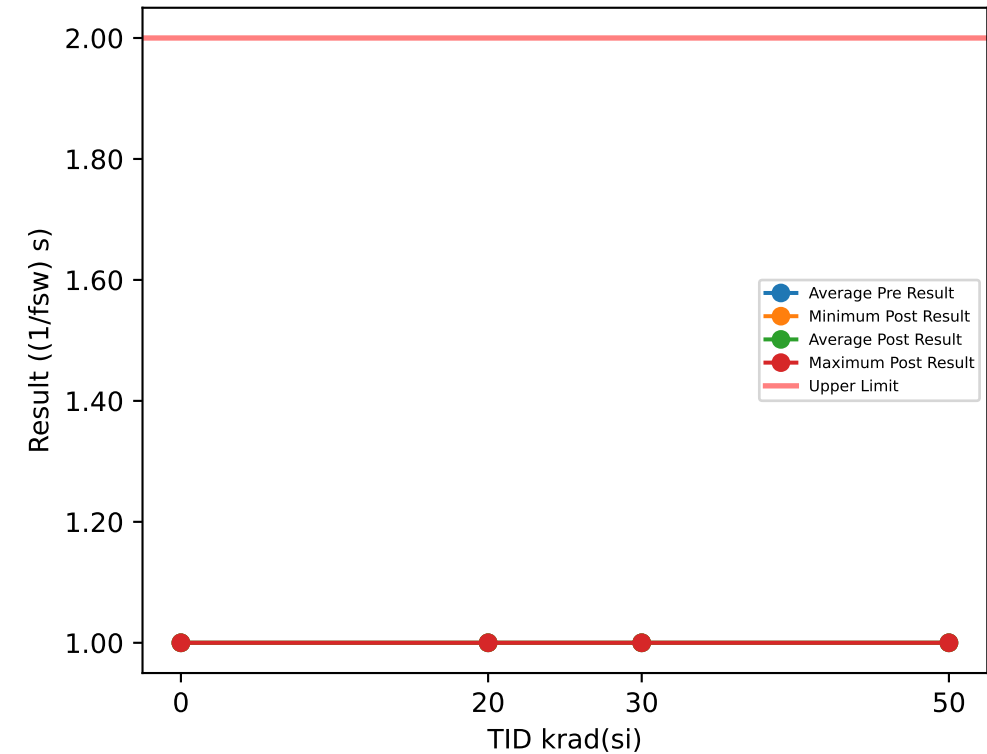
Test Results (Upper Limit = 5.0 ((1/fsw) s))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.7051	3.5747	-0.1304
516	0	CORRELATION	3.6678	3.5799	-0.0879
721	0	CORRELATION	3.5224	3.5813	0.0589
723	0	CORRELATION	3.49	3.6488	0.1588
729	0	CORRELATION	3.6736	3.5419	-0.1317
990	20	Unbiased	3.5896	3.5165	-0.0731
991	20	Unbiased	3.5171	3.4216	-0.0955
992	20	Unbiased	3.4777	3.5293	0.0516
993	20	Unbiased	3.418	3.6471	0.2291
994	20	Unbiased	3.6285	3.4997	-0.1288
995	20	Biased	3.5439	3.4941	-0.0498
996	20	Biased	3.5446	3.4934	-0.0512
997	20	Biased	3.539	3.6405	0.1015
998	20	Biased	3.7534	3.5468	-0.2066
999	20	Biased	3.5189	3.5886	0.0697
1020	30	Unbiased	3.6834	3.4322	-0.2512
1021	30	Unbiased	3.5609	3.3995	-0.1614
1022	30	Unbiased	3.6795	3.4548	-0.2247
1023	30	Unbiased	3.4653	3.3371	-0.1282
1024	30	Unbiased	3.3927	3.635	0.2423
1025	30	Biased	3.5092	3.4436	-0.0656
1026	30	Biased	3.6217	3.5916	-0.0301
1027	30	Biased	3.5588	3.5889	0.0301
1028	30	Biased	3.5378	3.4625	-0.0753
1029	30	Biased	3.4532	3.5725	0.1193
1030	50	Unbiased	3.316	3.3962	0.0802
1031	50	Unbiased	3.4985	3.577	0.0785
1032	50	Unbiased	3.6806	3.5176	-0.163
1033	50	Unbiased	3.6934	3.5638	-0.1296
1034	50	Unbiased	3.6319	3.5895	-0.0424
1035	50	Biased-84Hr-Anneal	3.6442	3.5331	-0.1111
1036	50	Biased-84Hr-Anneal	3.5623	3.4856	-0.0767
1037	50	Biased-84Hr-Anneal	3.5725	3.4722	-0.1003
1038	50	Biased-84Hr-Anneal	3.4607	3.5373	0.0766
1039	50	Biased-84Hr-Anneal	3.5791	3.6149	0.0358

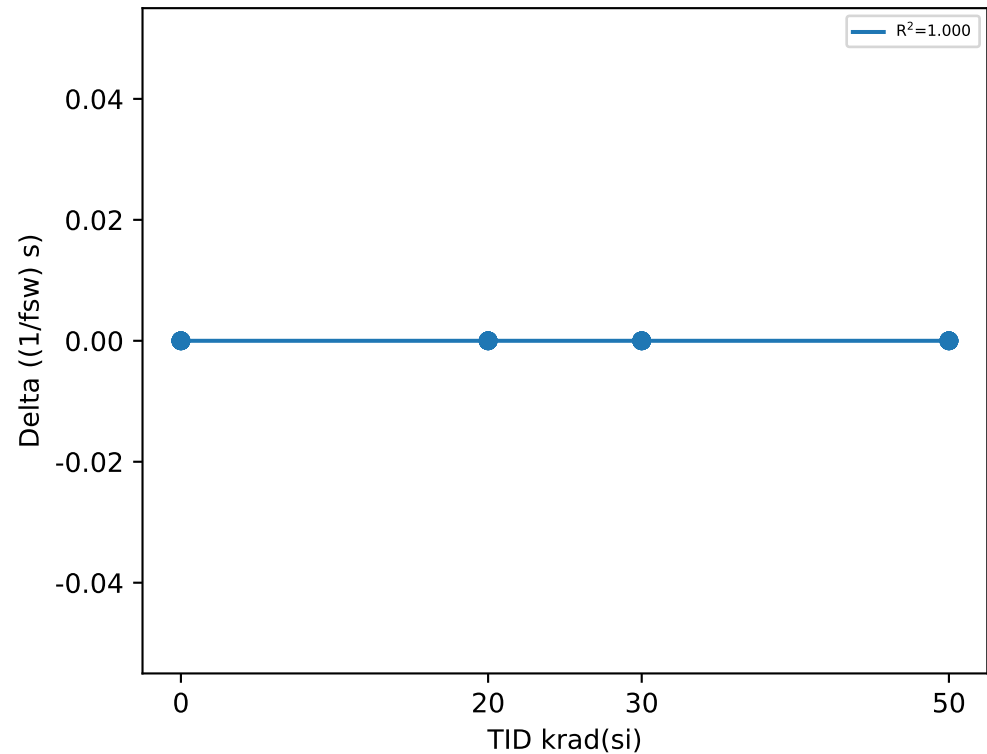
Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.49	3.6118	3.7051	0.098091	3.5419	3.5853	3.6488	0.038966	-0.1317	-0.02646	0.1588	0.12967
20	3.418	3.5531	3.7534	0.090613	3.4216	3.5378	3.6471	0.07033	-0.2066	-0.01531	0.2291	0.12772
30	3.3927	3.5462	3.6834	0.095953	3.3371	3.4918	3.635	0.098297	-0.2512	-0.05448	0.2423	0.15316
50	3.316	3.5639	3.6934	0.11458	3.3962	3.5287	3.6149	0.064562	-0.163	-0.0352	0.0802	0.094752

TID vs Result Stats



TID vs Post - Pre Exposure Delta



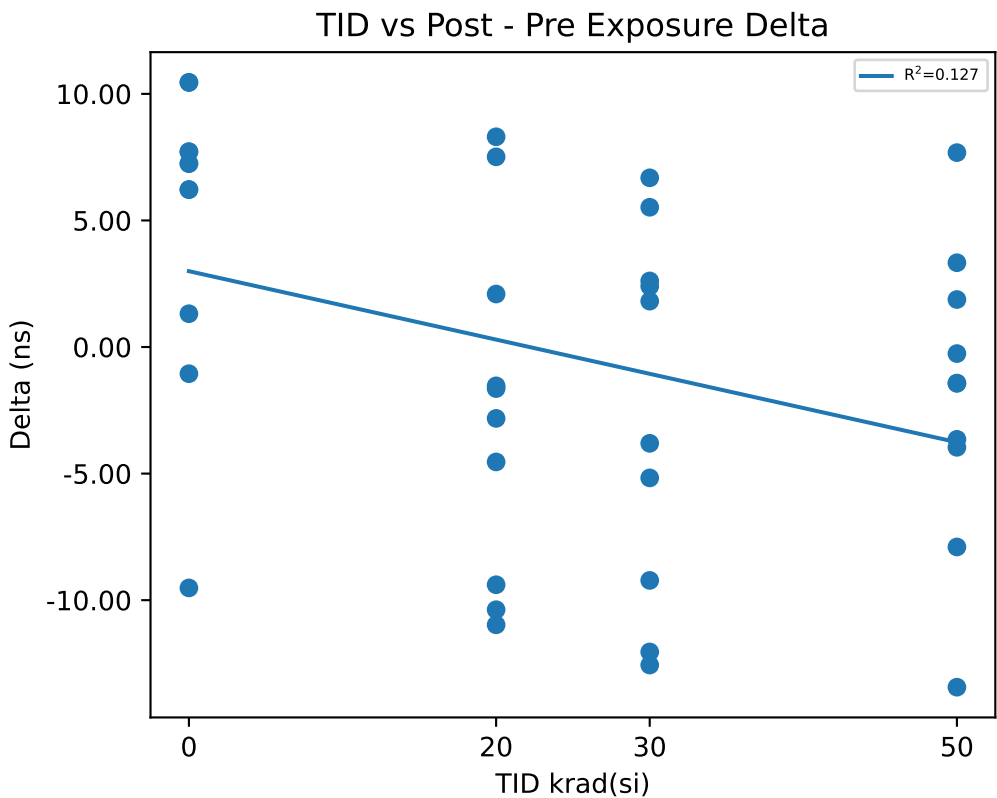
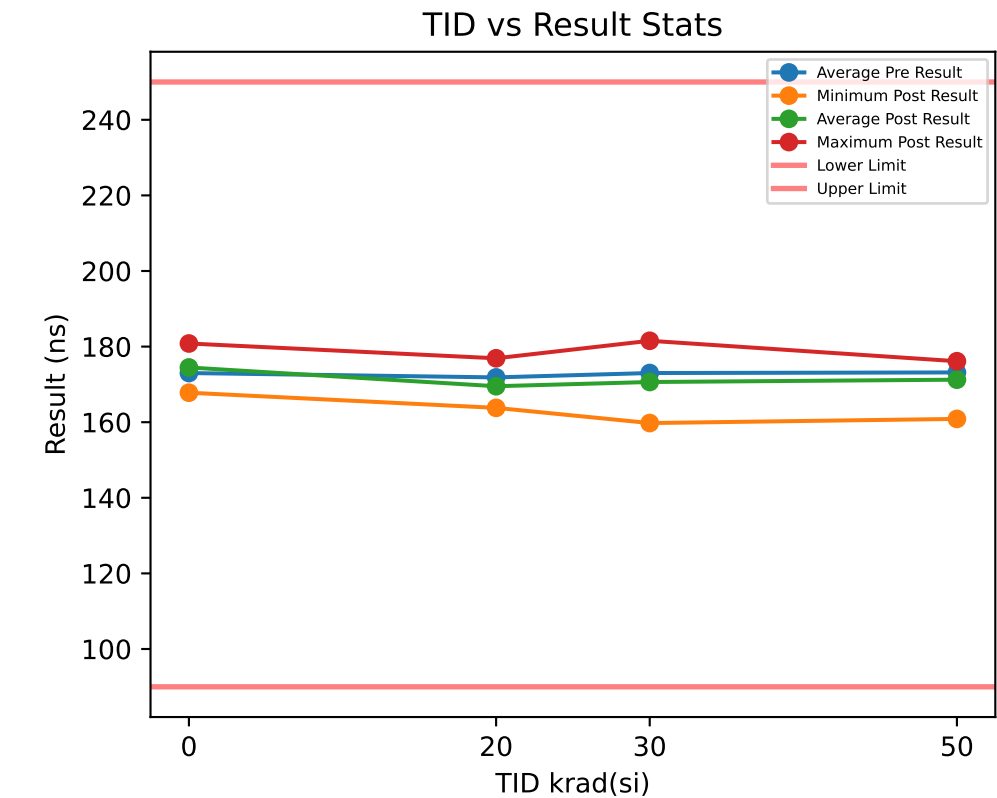
Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1	1	0
516	0	CORRELATION	1	1	0
721	0	CORRELATION	1	1	0
723	0	CORRELATION	1	1	0
729	0	CORRELATION	1	1	0
990	20	Unbiased	1	1	0
991	20	Unbiased	1	1	0
992	20	Unbiased	1	1	0
993	20	Unbiased	1	1	0
994	20	Unbiased	1	1	0
995	20	Biased	1	1	0
996	20	Biased	1	1	0
997	20	Biased	1	1	0
998	20	Biased	1	1	0
999	20	Biased	1	1	0
1020	30	Unbiased	1	1	0
1021	30	Unbiased	1	1	0
1022	30	Unbiased	1	1	0
1023	30	Unbiased	1	1	0
1024	30	Unbiased	1	1	0
1025	30	Biased	1	1	0
1026	30	Biased	1	1	0
1027	30	Biased	1	1	0
1028	30	Biased	1	1	0
1029	30	Biased	1	1	0
1030	50	Unbiased	1	1	0
1031	50	Unbiased	1	1	0
1032	50	Unbiased	1	1	0
1033	50	Unbiased	1	1	0
1034	50	Unbiased	1	1	0
1035	50	Biased-84Hr-Anneal	1	1	0
1036	50	Biased-84Hr-Anneal	1	1	0
1037	50	Biased-84Hr-Anneal	1	1	0
1038	50	Biased-84Hr-Anneal	1	1	0
1039	50	Biased-84Hr-Anneal	1	1	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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	1	1	0	1	1	1	0	0	0	0	0
20	1	1	1	0	1	1	1	0	0	0	0	0
30	1	1	1	0	1	1	1	0	0	0	0	0
50	1	1	1	0	1	1	1	0	0	0	0	0

Device Test: 24.105 TIMING|DELAY/SYNC1/12//511k/4011/@SYNC1_SW_DELAY_OUTPUT



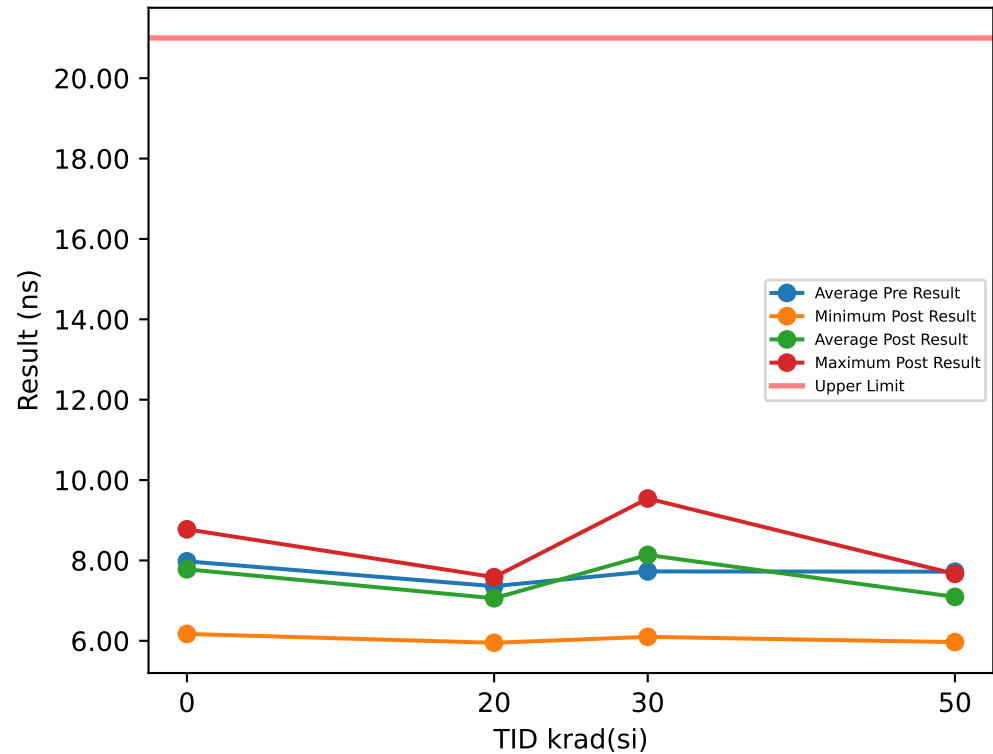
Test Results (Lower Limit = 90.0, Upper Limit = 250.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	179.51	180.82	1.3155
516	0	CORRELATION	174.78	173.73	-1.0545
721	0	CORRELATION	177.32	167.8	-9.5166
723	0	CORRELATION	162.18	172.63	10.453
729	0	CORRELATION	171.23	177.45	6.2187
990	20	Unbiased	165.43	163.79	-1.6414
991	20	Unbiased	168.38	163.84	-4.5393
992	20	Unbiased	169.35	171.45	2.0932
993	20	Unbiased	176.95	167.56	-9.3906
994	20	Unbiased	164.89	172.4	7.5133
995	20	Biased	178.44	176.91	-1.5335
996	20	Biased	174.83	164.46	-10.377
997	20	Biased	179.33	176.51	-2.8194
998	20	Biased	164.35	172.66	8.3052
999	20	Biased	176.56	165.59	-10.974
1020	30	Unbiased	171.57	177.09	5.5208
1021	30	Unbiased	182.13	172.91	-9.2193
1022	30	Unbiased	177.52	172.35	-5.1705
1023	30	Unbiased	175.58	163.02	-12.562
1024	30	Unbiased	164.61	171.29	6.6843
1025	30	Biased	171.82	159.77	-12.045
1026	30	Biased	178.93	181.54	2.6105
1027	30	Biased	163.62	165.44	1.8128
1028	30	Biased	177.62	173.81	-3.8043
1029	30	Biased	166.69	169.1	2.4009
1030	50	Unbiased	172	168.04	-3.9623
1031	50	Unbiased	174.62	173.19	-1.4331
1032	50	Unbiased	174.31	160.87	-13.438
1033	50	Unbiased	167.31	174.99	7.6796
1034	50	Unbiased	177.15	173.5	-3.6461
1035	50	Biased-84Hr-Anneal	167.62	167.36	-0.2587
1036	50	Biased-84Hr-Anneal	176.88	175.46	-1.4254
1037	50	Biased-84Hr-Anneal	167.31	169.19	1.8768
1038	50	Biased-84Hr-Anneal	172.8	176.13	3.3298
1039	50	Biased-84Hr-Anneal	181.64	173.74	-7.8982

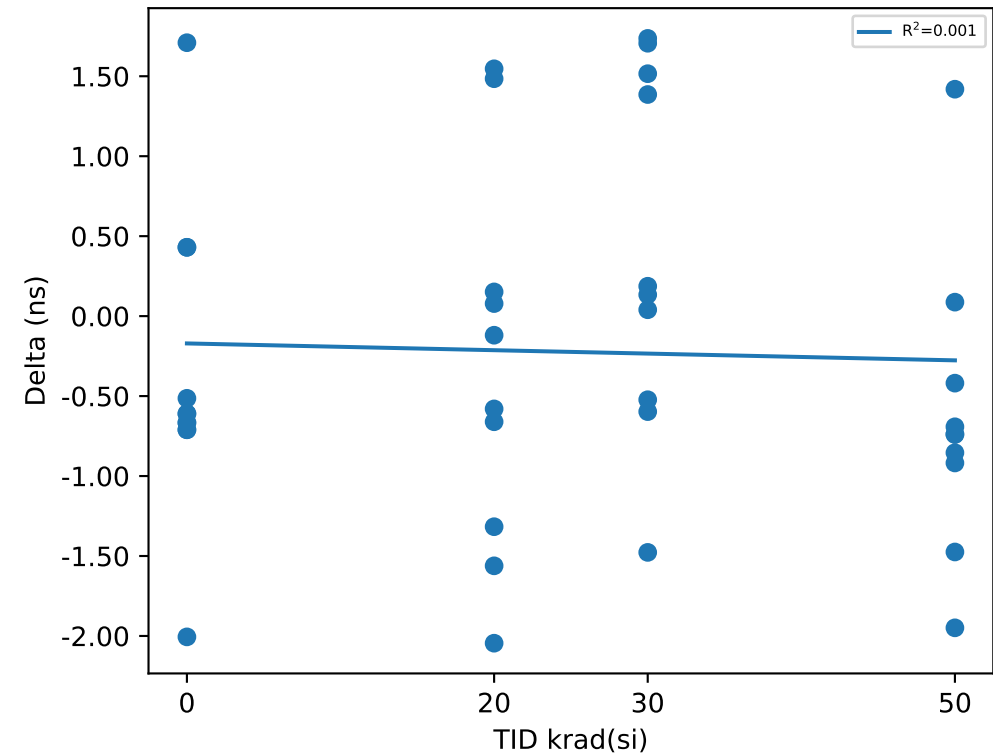
Test Statistics (ns)

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	162.18	173	179.51	6.7891	167.8	174.49	180.82	4.9396	-9.5166	1.4833	10.453	7.5887
20	164.35	171.85	179.33	5.9692	163.79	169.52	176.91	5.1143	-10.974	-2.3363	8.3052	6.8727
30	163.62	173.01	182.13	6.3978	159.77	170.63	181.54	6.5364	-12.562	-2.3772	6.6843	7.1772
50	167.31	173.16	181.64	4.7802	160.87	171.25	176.13	4.8075	-13.438	-1.9175	7.6796	5.8965

TID vs Result Stats



TID vs Post - Pre Exposure Delta



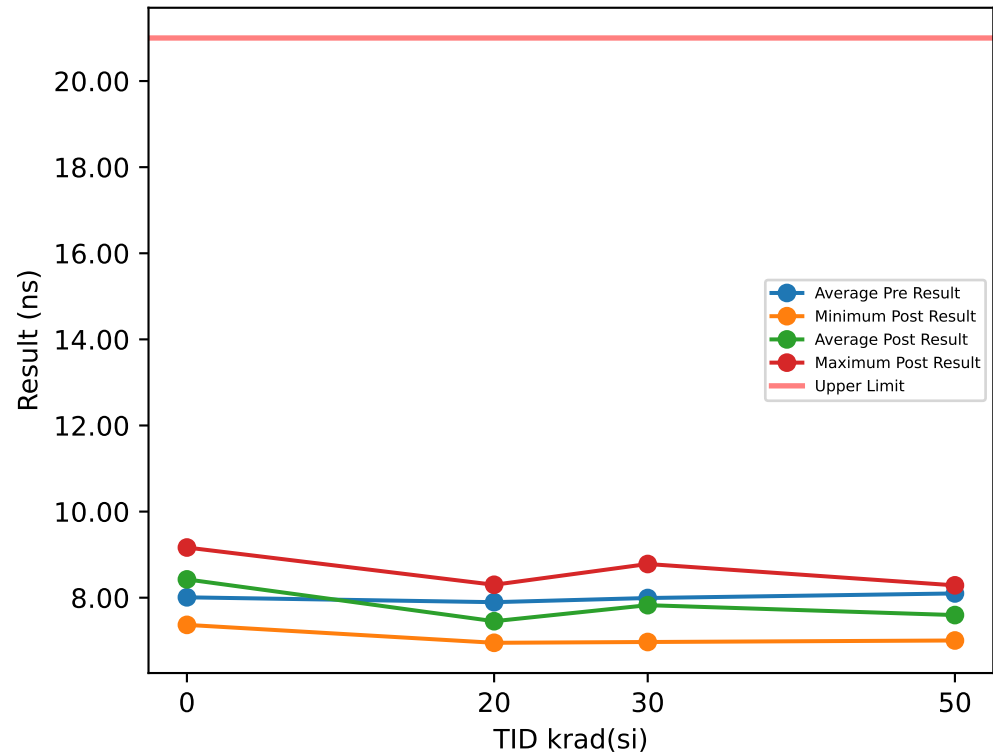
Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.931	7.6407	1.7097
516	0	CORRELATION	8.1771	6.1714	-2.0057
721	0	CORRELATION	9.2451	8.7312	-0.5139
723	0	CORRELATION	8.1926	7.5825	-0.6101
729	0	CORRELATION	8.3445	8.7749	0.4304
990	20	Unbiased	7.4071	7.4856	0.0785
991	20	Unbiased	8.1448	7.5646	-0.5802
992	20	Unbiased	7.5123	5.9509	-1.5614
993	20	Unbiased	5.9188	7.4653	1.5465
994	20	Unbiased	7.3803	7.5317	0.1514
995	20	Biased	8.157	6.1118	-2.0452
996	20	Biased	7.4974	7.378	-0.1194
997	20	Biased	6.0996	7.5841	1.4845
998	20	Biased	7.4743	6.1575	-1.3168
999	20	Biased	8.0137	7.3532	-0.6605
1020	30	Unbiased	8.1555	9.5412	1.3857
1021	30	Unbiased	9.336	8.7389	-0.5971
1022	30	Unbiased	7.0627	8.769	1.7063
1023	30	Unbiased	5.9177	7.4336	1.5159
1024	30	Unbiased	7.3603	7.4941	0.1338
1025	30	Biased	7.1043	8.8409	1.7366
1026	30	Biased	9.3179	9.5047	0.1868
1027	30	Biased	7.322	7.3619	0.0399
1028	30	Biased	8.1101	7.5873	-0.5228
1029	30	Biased	7.5766	6.0992	-1.4774
1030	50	Unbiased	8.085	7.6659	-0.4191
1031	50	Unbiased	7.6005	6.1257	-1.4748
1032	50	Unbiased	5.985	7.4039	1.4189
1033	50	Unbiased	7.4978	7.5852	0.0874
1034	50	Unbiased	8.147	6.1979	-1.9491
1035	50	Biased-84Hr-Anneal	8.1586	7.4185	-0.7401
1036	50	Biased-84Hr-Anneal	8.3603	7.5061	-0.8542
1037	50	Biased-84Hr-Anneal	8.1545	7.4625	-0.692
1038	50	Biased-84Hr-Anneal	8.3345	7.5964	-0.7381
1039	50	Biased-84Hr-Anneal	6.8854	5.9672	-0.9182

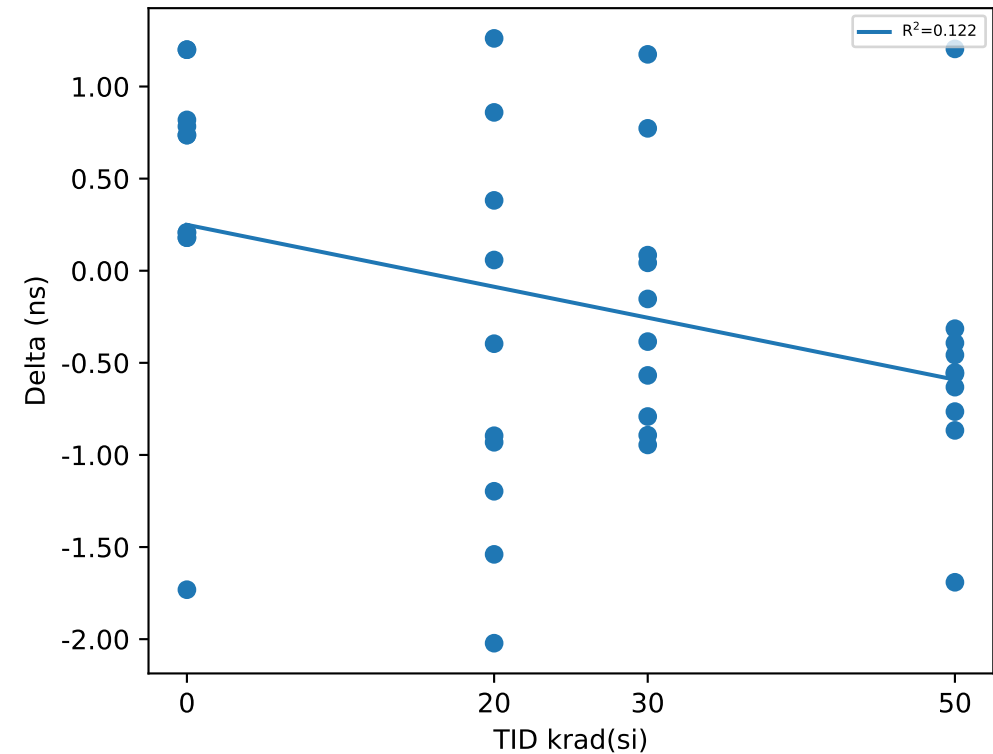
Test Statistics (ns)

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	5.931	7.9781	9.2451	1.2264	6.1714	7.7801	8.7749	1.0654	-2.0057	-0.19792	1.7097	1.3758
20	5.9188	7.3605	8.157	0.77473	5.9509	7.0583	7.5841	0.6854	-2.0452	-0.30226	1.5465	1.195
30	5.9177	7.7263	9.336	1.0474	6.0992	8.1371	9.5412	1.1087	-1.4774	0.41077	1.7366	1.1218
50	5.985	7.7209	8.3603	0.76411	5.9672	7.0929	7.6659	0.69426	-1.9491	-0.62793	1.4189	0.90503

TID vs Result Stats



TID vs Post - Pre Exposure Delta



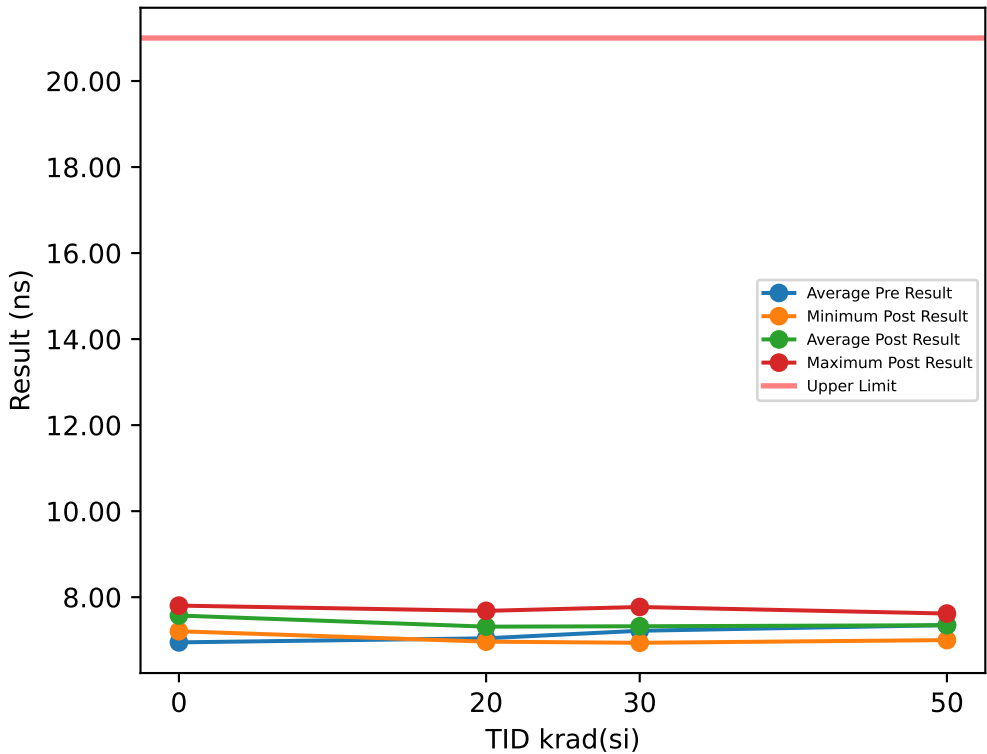
Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.3597	8.1785	0.8188
516	0	CORRELATION	9.1003	7.3688	-1.7315
721	0	CORRELATION	7.5457	8.3292	0.7835
723	0	CORRELATION	7.9655	9.1655	1.2
729	0	CORRELATION	8.0729	8.8091	0.7362
990	20	Unbiased	6.9648	7.023	0.0582
991	20	Unbiased	9.034	8.1383	-0.8957
992	20	Unbiased	8.1479	7.2166	-0.9313
993	20	Unbiased	7.3612	6.9651	-0.3961
994	20	Unbiased	6.8858	8.147	1.2612
995	20	Biased	9.0115	7.4718	-1.5397
996	20	Biased	8.1497	6.9525	-1.1972
997	20	Biased	7.4405	8.3	0.8595
998	20	Biased	6.9578	7.3397	0.3819
999	20	Biased	9.0061	6.9842	-2.0219
1020	30	Unbiased	8.5256	7.58	-0.9456
1021	30	Unbiased	7.5451	8.318	0.7729
1022	30	Unbiased	8.9357	8.7826	-0.1531
1023	30	Unbiased	7.3557	6.971	-0.3847
1024	30	Unbiased	6.9194	8.094	1.1746
1025	30	Biased	8.8794	8.3112	-0.5682
1026	30	Biased	7.5616	7.6045	0.0429
1027	30	Biased	6.9069	6.9915	0.0846
1028	30	Biased	9.0985	8.2057	-0.8928
1029	30	Biased	8.1974	7.4061	-0.7913
1030	50	Unbiased	9.0514	8.2868	-0.7646
1031	50	Unbiased	8.1712	7.3045	-0.8667
1032	50	Unbiased	7.3209	7.0063	-0.3146
1033	50	Unbiased	7.0388	8.243	1.2042
1034	50	Unbiased	9.0158	7.3246	-1.6912
1035	50	Biased-84Hr-Anneal	7.4653	7.0078	-0.4575
1036	50	Biased-84Hr-Anneal	8.7834	8.2309	-0.5525
1037	50	Biased-84Hr-Anneal	7.4682	7.0761	-0.3921
1038	50	Biased-84Hr-Anneal	8.7382	8.179	-0.5592
1039	50	Biased-84Hr-Anneal	7.9374	7.3054	-0.632

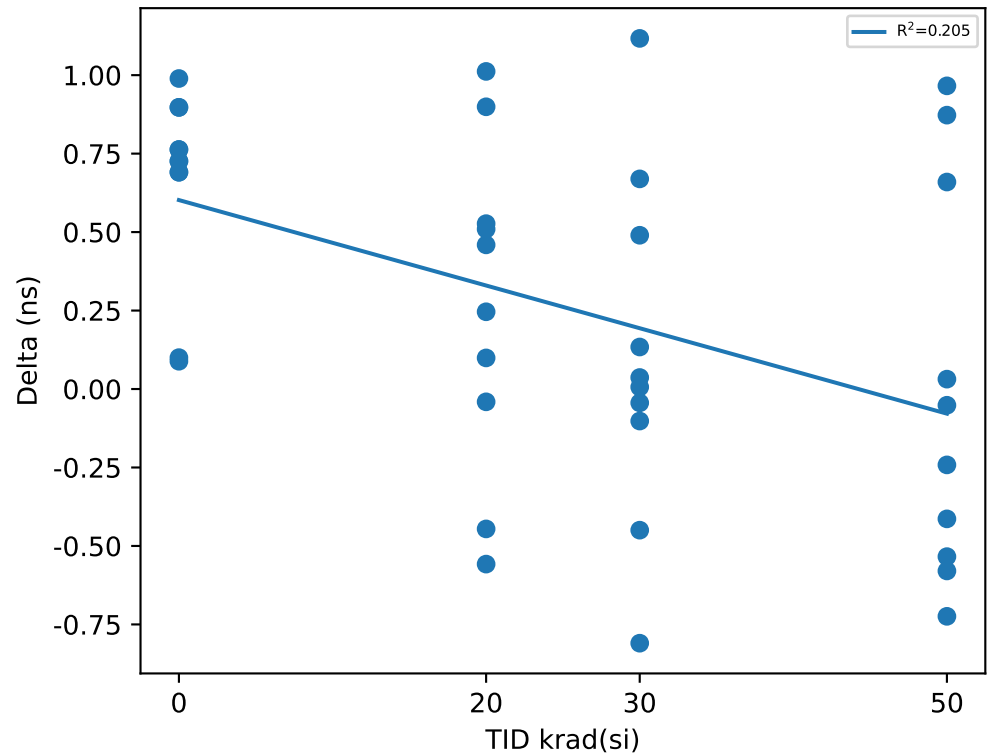
Test Statistics (ns)

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	7.3597	8.0088	9.1003	0.67697	7.3688	8.3702	9.1655	0.68308	-1.7315	0.3614	1.2	1.1844
20	6.8858	7.8959	9.034	0.89199	6.9525	7.4538	8.3	0.54068	-2.0219	-0.44211	1.2612	1.0668
30	6.9069	7.9925	9.0985	0.83978	6.971	7.8265	8.7826	0.60753	-0.9456	-0.16607	1.1746	0.70883
50	7.0388	8.0991	9.0514	0.75901	7.0063	7.5964	8.2868	0.56233	-1.6912	-0.50262	1.2042	0.71486

TID vs Result Stats



TID vs Post - Pre Exposure Delta



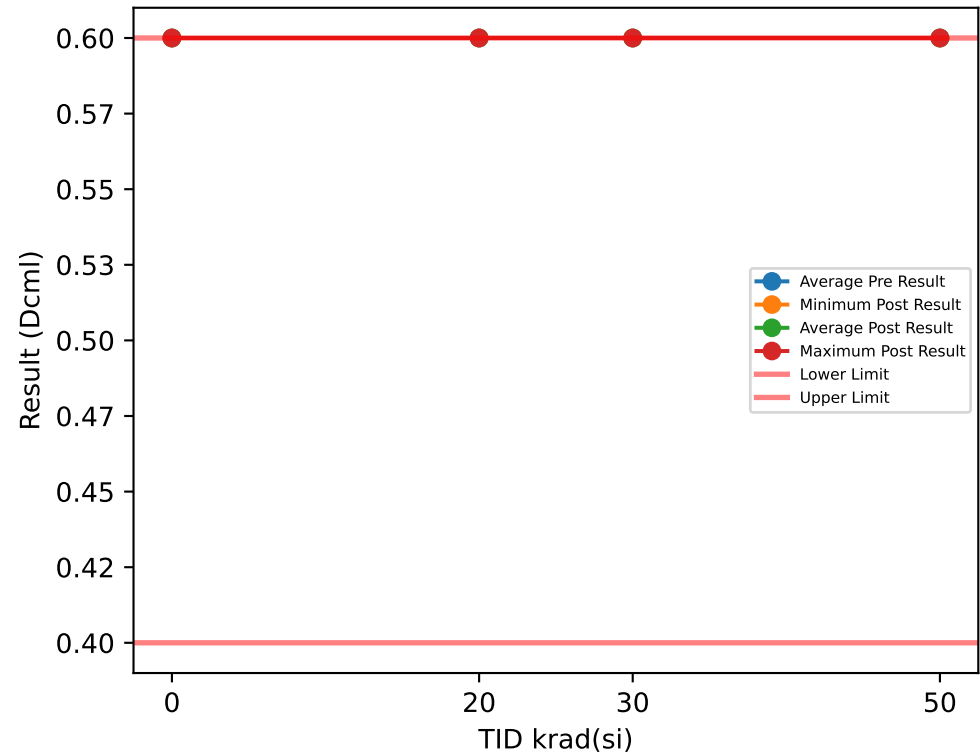
Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.4553	7.5438	0.0885
516	0	CORRELATION	6.4404	7.4297	0.9893
721	0	CORRELATION	7.1086	7.2086	0.1
723	0	CORRELATION	6.8365	7.5995	0.763
729	0	CORRELATION	6.907	7.8044	0.8974
990	20	Unbiased	6.9402	7.0393	0.0991
991	20	Unbiased	6.552	7.5639	1.0119
992	20	Unbiased	7.4764	7.4356	-0.0408
993	20	Unbiased	7.412	6.9663	-0.4457
994	20	Unbiased	6.9866	7.5135	0.5269
995	20	Biased	6.538	7.4372	0.8992
996	20	Biased	7.5419	6.9841	-0.5578
997	20	Biased	7.4361	7.6822	0.2461
998	20	Biased	7.0391	7.4984	0.4593
999	20	Biased	6.5192	7.0286	0.5094
1020	30	Unbiased	7.9827	7.1729	-0.8098
1021	30	Unbiased	7.0808	7.2147	0.1339
1022	30	Unbiased	7.2821	7.772	0.4899
1023	30	Unbiased	7.474	7.0243	-0.4497
1024	30	Unbiased	6.942	7.6115	0.6695
1025	30	Biased	7.2331	7.1891	-0.044
1026	30	Biased	7.1569	7.1936	0.0367
1027	30	Biased	6.9334	6.9397	0.0063
1028	30	Biased	6.5239	7.641	1.1171
1029	30	Biased	7.5842	7.4822	-0.102
1030	50	Unbiased	6.582	7.5479	0.9659
1031	50	Unbiased	7.6042	7.3625	-0.2417
1032	50	Unbiased	7.4162	7.0025	-0.4137
1033	50	Unbiased	6.9604	7.6199	0.6595
1034	50	Unbiased	6.545	7.4176	0.8726
1035	50	Biased-84Hr-Anneal	7.5653	7.0313	-0.534
1036	50	Biased-84Hr-Anneal	7.5613	7.5096	-0.0517
1037	50	Biased-84Hr-Anneal	7.5985	7.0189	-0.5796
1038	50	Biased-84Hr-Anneal	7.5838	7.6153	0.0315
1039	50	Biased-84Hr-Anneal	8.0868	7.3626	-0.7242

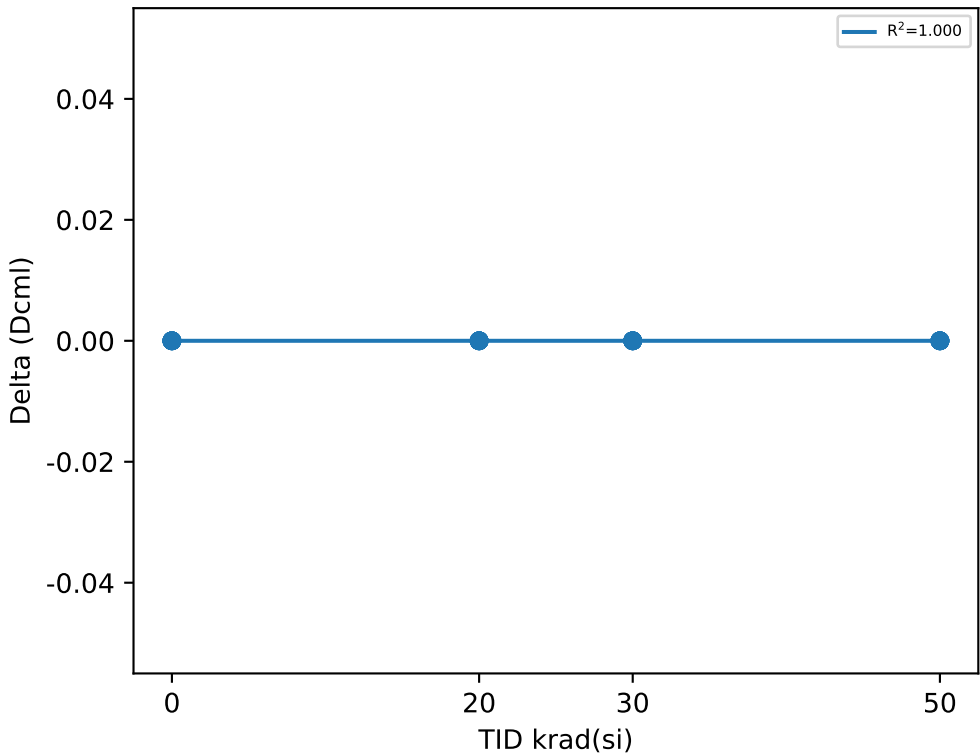
Test Statistics (ns)

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	6.4404	6.9496	7.4553	0.37246	7.2086	7.5172	7.8044	0.21958	0.0885	0.56764	0.9893	0.43959
20	6.5192	7.0442	7.5419	0.40983	6.9663	7.3149	7.6822	0.27657	-0.5578	0.27076	1.0119	0.51954
30	6.5239	7.2193	7.9827	0.40142	6.9397	7.3241	7.772	0.28213	-0.8098	0.10479	1.1171	0.54934
50	6.545	7.3504	8.0868	0.49542	7.0025	7.3488	7.6199	0.24601	-0.7242	-0.00154	0.9659	0.62433

TID vs Result Stats



TID vs Post - Pre Exposure Delta



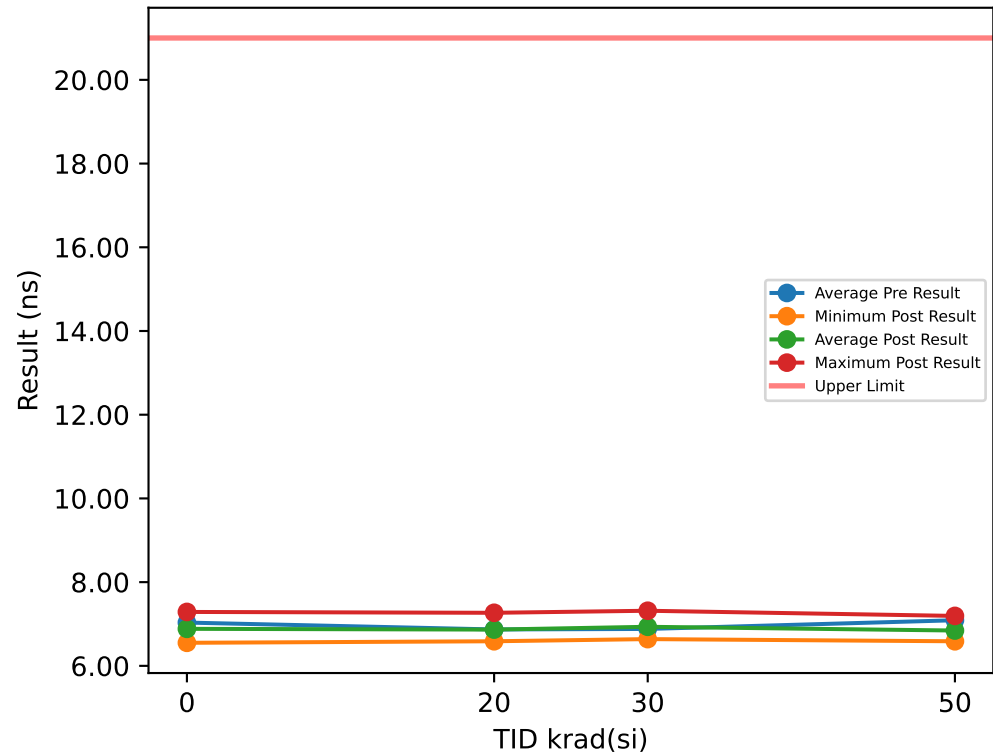
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6	0.6	0
516	0	CORRELATION	0.6	0.6	0
721	0	CORRELATION	0.6	0.6	0
723	0	CORRELATION	0.6	0.6	0
729	0	CORRELATION	0.6	0.6	0
990	20	Unbiased	0.6	0.6	0
991	20	Unbiased	0.6	0.6	0
992	20	Unbiased	0.6	0.6	0
993	20	Unbiased	0.6	0.6	0
994	20	Unbiased	0.6	0.6	0
995	20	Biased	0.6	0.6	0
996	20	Biased	0.6	0.6	0
997	20	Biased	0.6	0.6	0
998	20	Biased	0.6	0.6	0
999	20	Biased	0.6	0.6	0
1020	30	Unbiased	0.6	0.6	0
1021	30	Unbiased	0.6	0.6	0
1022	30	Unbiased	0.6	0.6	0
1023	30	Unbiased	0.6	0.6	0
1024	30	Unbiased	0.6	0.6	0
1025	30	Biased	0.6	0.6	0
1026	30	Biased	0.6	0.6	0
1027	30	Biased	0.6	0.6	0
1028	30	Biased	0.6	0.6	0
1029	30	Biased	0.6	0.6	0
1030	50	Unbiased	0.6	0.6	0
1031	50	Unbiased	0.6	0.6	0
1032	50	Unbiased	0.6	0.6	0
1033	50	Unbiased	0.6	0.6	0
1034	50	Unbiased	0.6	0.6	0
1035	50	Biased-84Hr-Anneal	0.6	0.6	0
1036	50	Biased-84Hr-Anneal	0.6	0.6	0
1037	50	Biased-84Hr-Anneal	0.6	0.6	0
1038	50	Biased-84Hr-Anneal	0.6	0.6	0
1039	50	Biased-84Hr-Anneal	0.6	0.6	0

Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
20	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
30	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
50	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

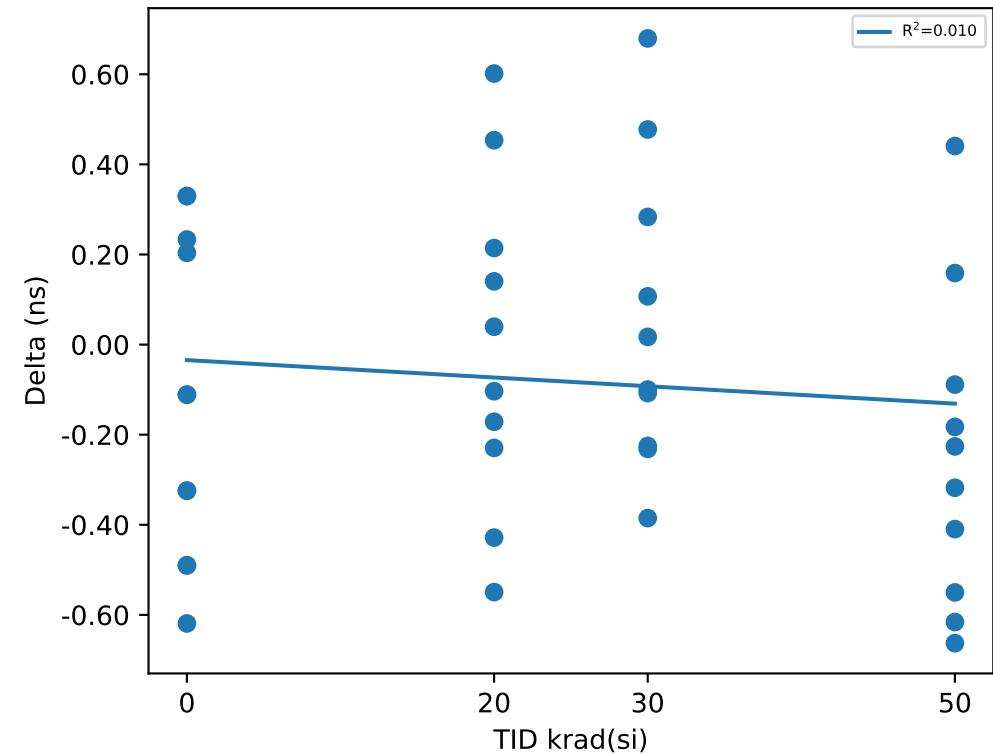
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.1736	6.5546	-0.619
516	0	CORRELATION	6.9323	7.1655	0.2332
721	0	CORRELATION	7.0844	7.288	0.2036
723	0	CORRELATION	6.9377	7.2673	0.3296
729	0	CORRELATION	7.0407	6.9295	-0.1112
990	20	Unbiased	6.7955	6.8351	0.0396
991	20	Unbiased	6.8934	6.664	-0.2294
992	20	Unbiased	6.5568	7.1584	0.6016
993	20	Unbiased	7.1724	6.744	-0.4284
994	20	Unbiased	6.691	6.5875	-0.1035
995	20	Biased	6.9392	7.1535	0.2143
996	20	Biased	6.6246	6.765	0.1404
997	20	Biased	7.2642	6.7148	-0.5494
998	20	Biased	6.8138	7.2675	0.4537
999	20	Biased	6.9443	6.773	-0.1713
1020	30	Unbiased	7.0733	6.8419	-0.2314
1021	30	Unbiased	7.033	7.3164	0.2834
1022	30	Unbiased	6.765	6.8721	0.1071
1023	30	Unbiased	7.1579	6.7728	-0.3851
1024	30	Unbiased	6.8113	6.7037	-0.1076
1025	30	Biased	6.7979	7.2753	0.4774
1026	30	Biased	6.9663	6.8665	-0.0998
1027	30	Biased	6.7422	6.7593	0.0171
1028	30	Biased	6.864	6.6391	-0.2249
1029	30	Biased	6.6065	7.2861	0.6796
1030	50	Unbiased	6.9048	6.587	-0.3178
1031	50	Unbiased	6.6417	7.0824	0.4407
1032	50	Unbiased	7.2286	6.819	-0.4096
1033	50	Unbiased	6.7642	6.6754	-0.0888
1034	50	Unbiased	7.0345	7.1932	0.1587
1035	50	Biased-84Hr-Anneal	7.476	6.8132	-0.6628
1036	50	Biased-84Hr-Anneal	6.8181	6.5921	-0.226
1037	50	Biased-84Hr-Anneal	7.5399	6.9241	-0.6158
1038	50	Biased-84Hr-Anneal	6.7963	6.6136	-0.1827
1039	50	Biased-84Hr-Anneal	7.6899	7.1398	-0.5501

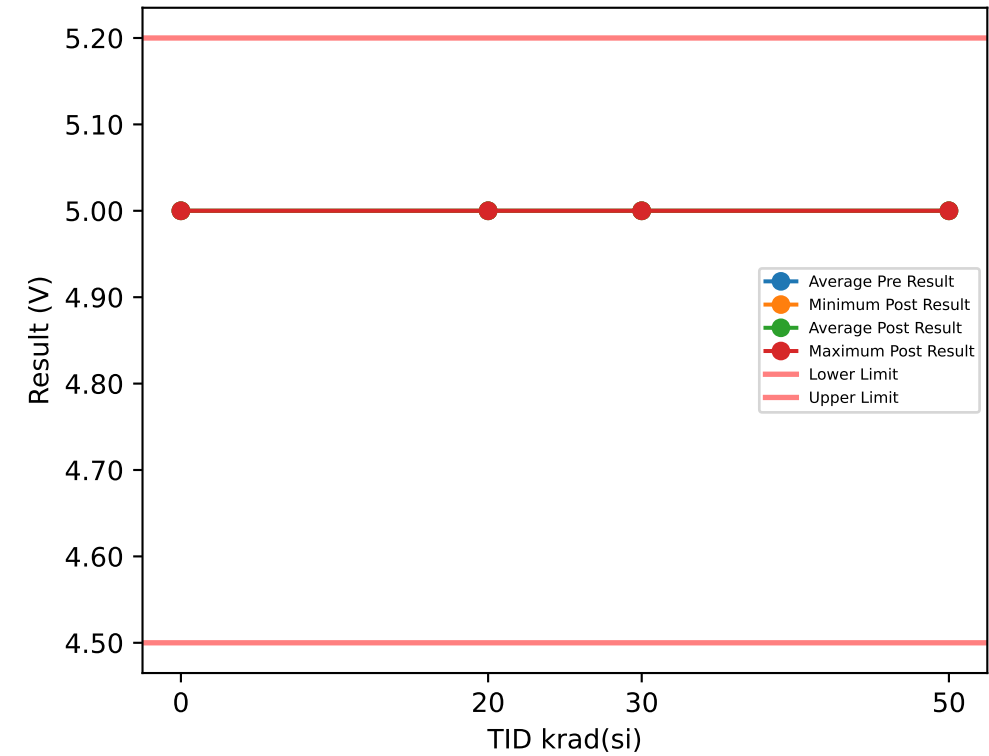
TID vs Post - Pre Exposure Delta



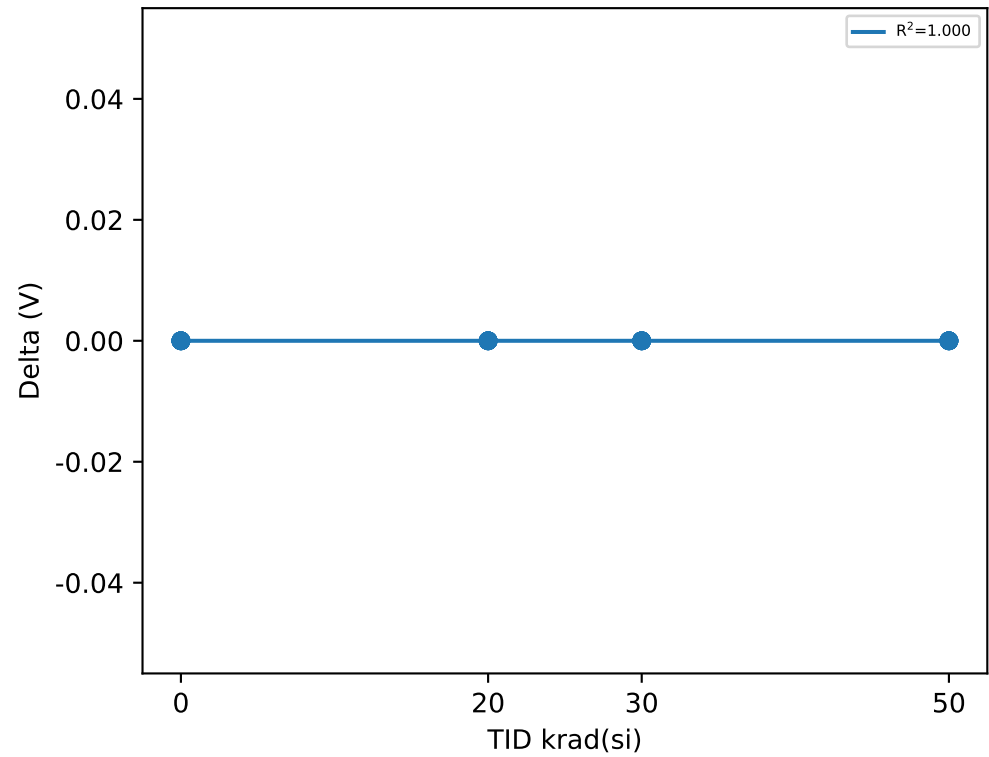
Test Statistics (ns)

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	6.9323	7.0337	7.1736	0.10209	6.5546	7.041	7.288	0.30689	-0.619	0.00724	0.3296	0.38721
20	6.5568	6.8695	7.2642	0.22528	6.5875	6.8663	7.2675	0.23694	-0.5494	-0.00324	0.6016	0.36711
30	6.6065	6.8817	7.1579	0.17132	6.6391	6.9333	7.3164	0.25821	-0.3851	0.05158	0.6796	0.33817
50	6.6417	7.0894	7.6899	0.37046	6.587	6.844	7.1932	0.23221	-0.6628	-0.24542	0.4407	0.3495

TID vs Result Stats



TID vs Post - Pre Exposure Delta



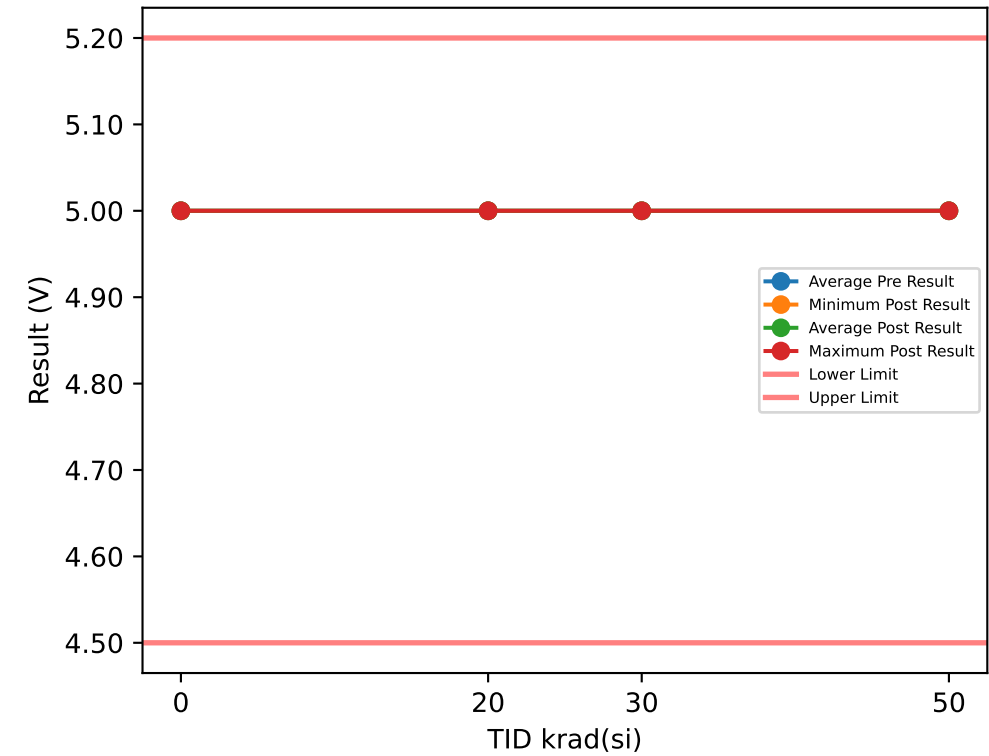
Test Results (Lower Limit = 4.5, Upper Limit = 5.2 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5	5	0
516	0	CORRELATION	5	5	0
721	0	CORRELATION	5	5	0
723	0	CORRELATION	5	5	0
729	0	CORRELATION	5	5	0
990	20	Unbiased	5	5	0
991	20	Unbiased	5	5	0
992	20	Unbiased	5	5	0
993	20	Unbiased	5	5	0
994	20	Unbiased	5	5	0
995	20	Biased	5	5	0
996	20	Biased	5	5	0
997	20	Biased	5	5	0
998	20	Biased	5	5	0
999	20	Biased	5	5	0
1020	30	Unbiased	5	5	0
1021	30	Unbiased	5	5	0
1022	30	Unbiased	5	5	0
1023	30	Unbiased	5	5	0
1024	30	Unbiased	5	5	0
1025	30	Biased	5	5	0
1026	30	Biased	5	5	0
1027	30	Biased	5	5	0
1028	30	Biased	5	5	0
1029	30	Biased	5	5	0
1030	50	Unbiased	5	5	0
1031	50	Unbiased	5	5	0
1032	50	Unbiased	5	5	0
1033	50	Unbiased	5	5	0
1034	50	Unbiased	5	5	0
1035	50	Biased-84Hr-Anneal	5	5	0
1036	50	Biased-84Hr-Anneal	5	5	0
1037	50	Biased-84Hr-Anneal	5	5	0
1038	50	Biased-84Hr-Anneal	5	5	0
1039	50	Biased-84Hr-Anneal	5	5	0

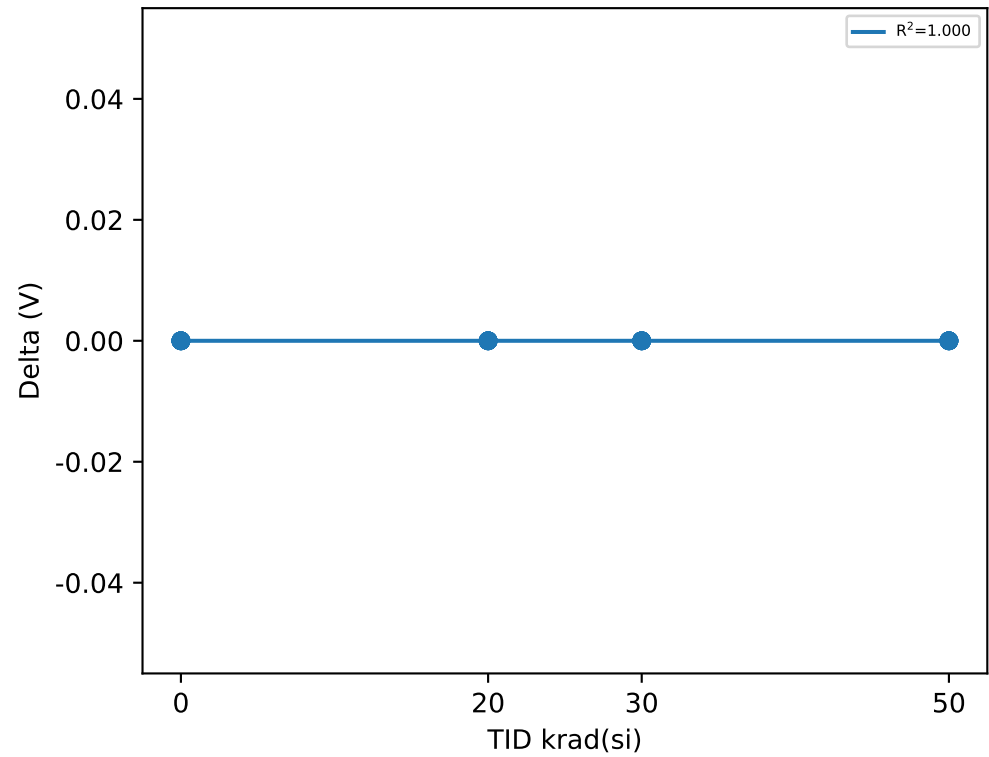
Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
20	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 4.5, Upper Limit = 5.2 (V))

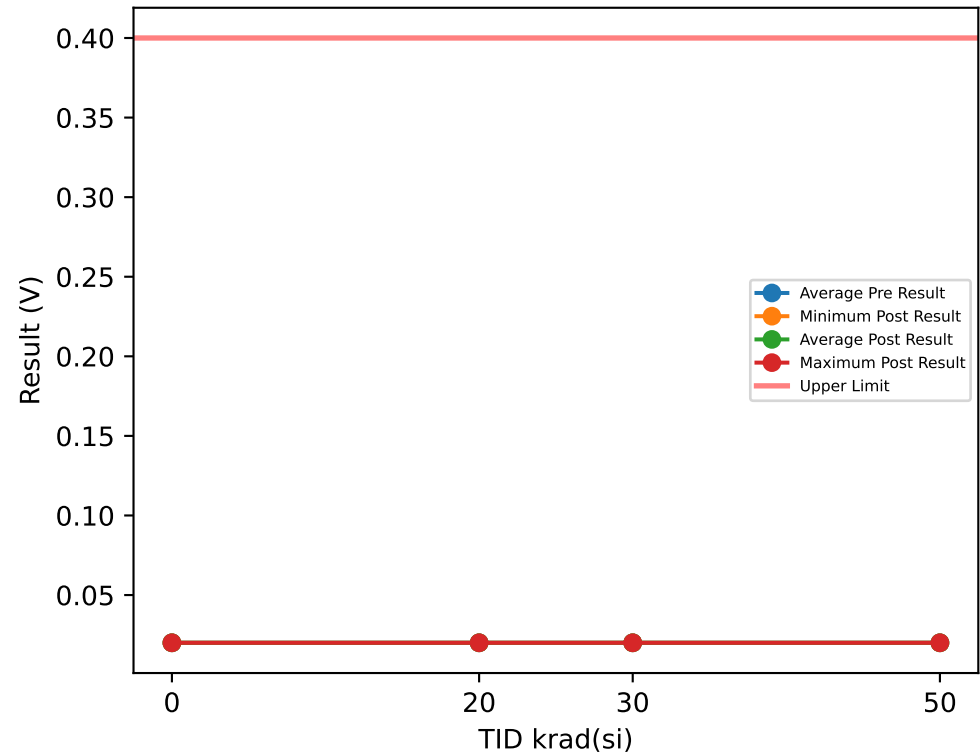
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5	5	0
516	0	CORRELATION	5	5	0
721	0	CORRELATION	5	5	0
723	0	CORRELATION	5	5	0
729	0	CORRELATION	5	5	0
990	20	Unbiased	5	5	0
991	20	Unbiased	5	5	0
992	20	Unbiased	5	5	0
993	20	Unbiased	5	5	0
994	20	Unbiased	5	5	0
995	20	Biased	5	5	0
996	20	Biased	5	5	0
997	20	Biased	5	5	0
998	20	Biased	5	5	0
999	20	Biased	5	5	0
1020	30	Unbiased	5	5	0
1021	30	Unbiased	5	5	0
1022	30	Unbiased	5	5	0
1023	30	Unbiased	5	5	0
1024	30	Unbiased	5	5	0
1025	30	Biased	5	5	0
1026	30	Biased	5	5	0
1027	30	Biased	5	5	0
1028	30	Biased	5	5	0
1029	30	Biased	5	5	0
1030	50	Unbiased	5	5	0
1031	50	Unbiased	5	5	0
1032	50	Unbiased	5	5	0
1033	50	Unbiased	5	5	0
1034	50	Unbiased	5	5	0
1035	50	Biased-84Hr-Anneal	5	5	0
1036	50	Biased-84Hr-Anneal	5	5	0
1037	50	Biased-84Hr-Anneal	5	5	0
1038	50	Biased-84Hr-Anneal	5	5	0
1039	50	Biased-84Hr-Anneal	5	5	0

Test Statistics (V)

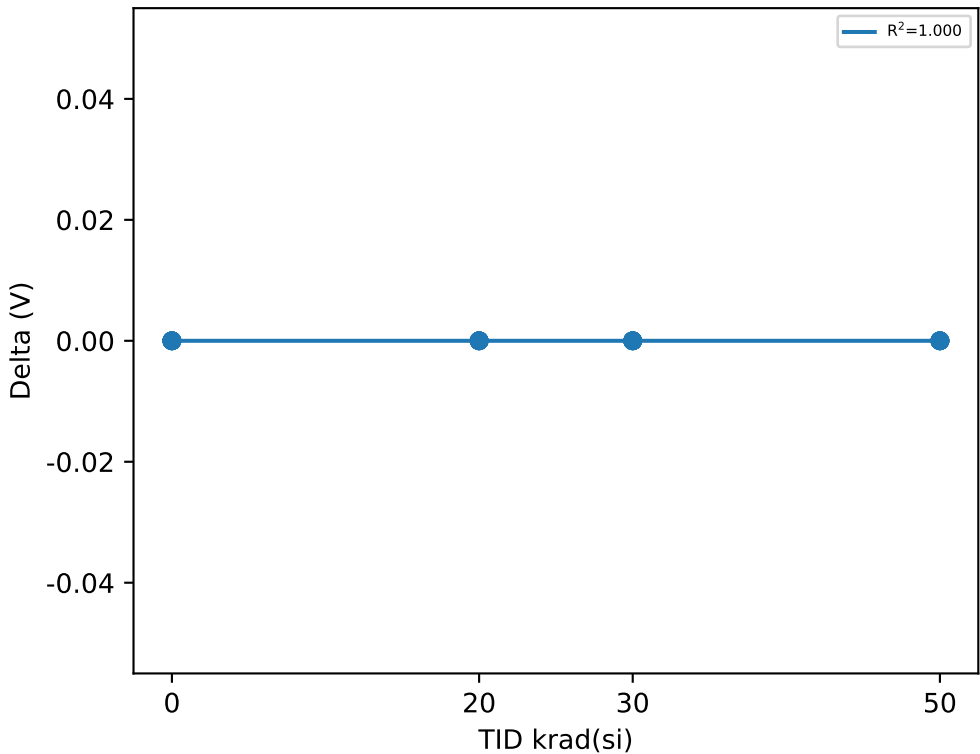
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
20	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 24.113 LEVELS|VOL/SYNC1/12//511k/4011/@SYNC_OUT_LOW

TID vs Result Stats



TID vs Post - Pre Exposure Delta



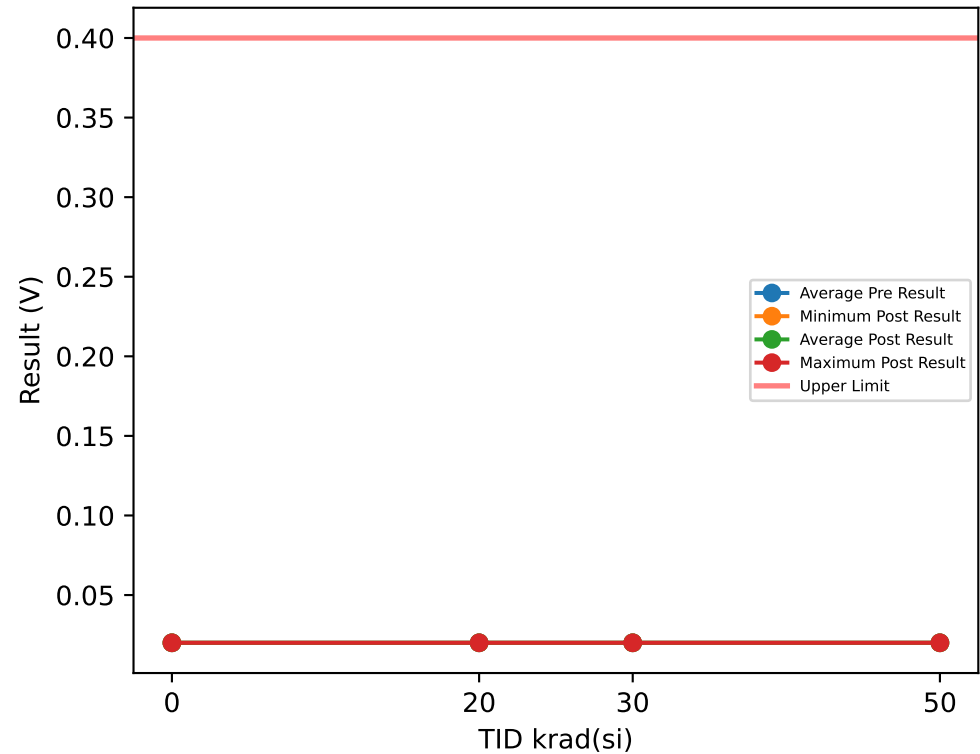
Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.02	0.02	0
516	0	CORRELATION	0.02	0.02	0
721	0	CORRELATION	0.02	0.02	0
723	0	CORRELATION	0.02	0.02	0
729	0	CORRELATION	0.02	0.02	0
990	20	Unbiased	0.02	0.02	0
991	20	Unbiased	0.02	0.02	0
992	20	Unbiased	0.02	0.02	0
993	20	Unbiased	0.02	0.02	0
994	20	Unbiased	0.02	0.02	0
995	20	Biased	0.02	0.02	0
996	20	Biased	0.02	0.02	0
997	20	Biased	0.02	0.02	0
998	20	Biased	0.02	0.02	0
999	20	Biased	0.02	0.02	0
1020	30	Unbiased	0.02	0.02	0
1021	30	Unbiased	0.02	0.02	0
1022	30	Unbiased	0.02	0.02	0
1023	30	Unbiased	0.02	0.02	0
1024	30	Unbiased	0.02	0.02	0
1025	30	Biased	0.02	0.02	0
1026	30	Biased	0.02	0.02	0
1027	30	Biased	0.02	0.02	0
1028	30	Biased	0.02	0.02	0
1029	30	Biased	0.02	0.02	0
1030	50	Unbiased	0.02	0.02	0
1031	50	Unbiased	0.02	0.02	0
1032	50	Unbiased	0.02	0.02	0
1033	50	Unbiased	0.02	0.02	0
1034	50	Unbiased	0.02	0.02	0
1035	50	Biased-84Hr-Anneal	0.02	0.02	0
1036	50	Biased-84Hr-Anneal	0.02	0.02	0
1037	50	Biased-84Hr-Anneal	0.02	0.02	0
1038	50	Biased-84Hr-Anneal	0.02	0.02	0
1039	50	Biased-84Hr-Anneal	0.02	0.02	0

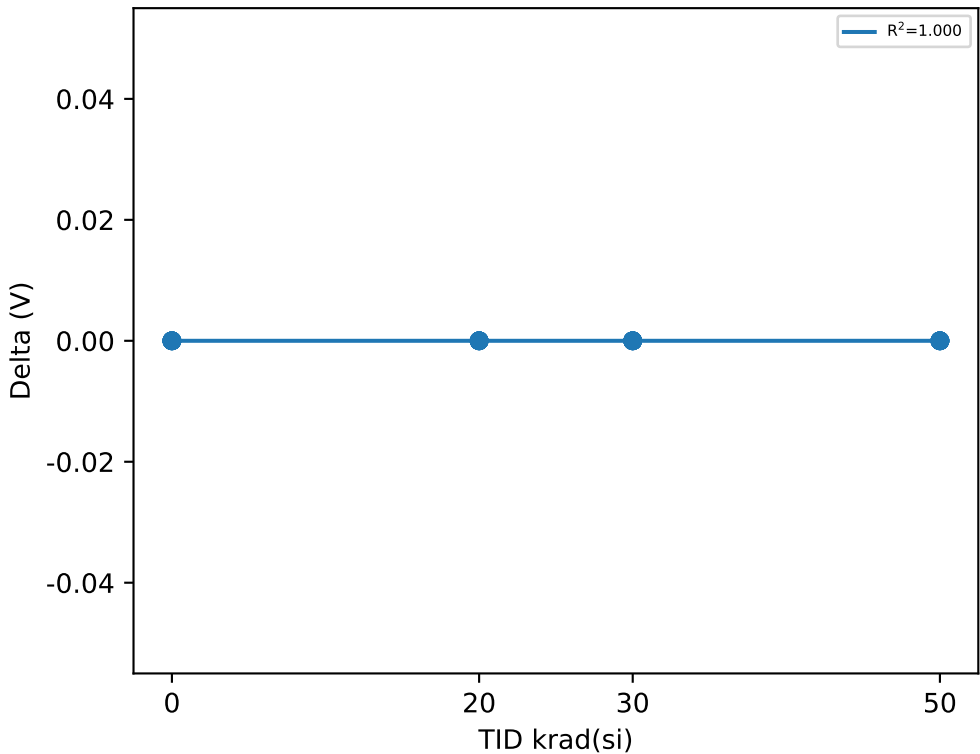
Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
20	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
30	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
50	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



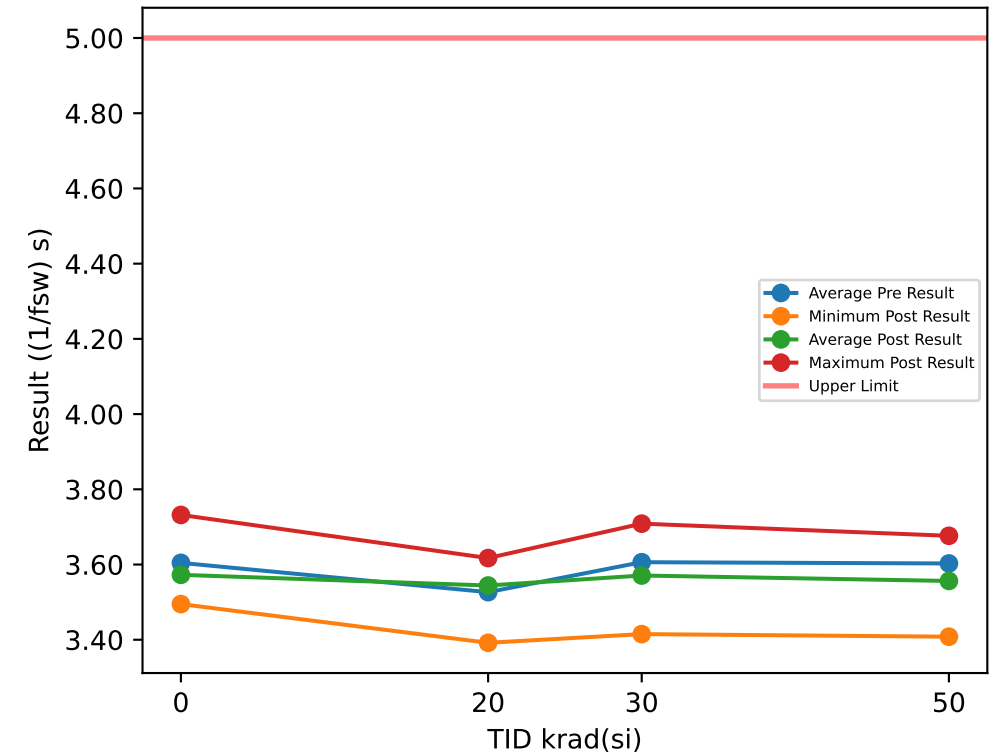
Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.02	0.02	0
516	0	CORRELATION	0.02	0.02	0
721	0	CORRELATION	0.02	0.02	0
723	0	CORRELATION	0.02	0.02	0
729	0	CORRELATION	0.02	0.02	0
990	20	Unbiased	0.02	0.02	0
991	20	Unbiased	0.02	0.02	0
992	20	Unbiased	0.02	0.02	0
993	20	Unbiased	0.02	0.02	0
994	20	Unbiased	0.02	0.02	0
995	20	Biased	0.02	0.02	0
996	20	Biased	0.02	0.02	0
997	20	Biased	0.02	0.02	0
998	20	Biased	0.02	0.02	0
999	20	Biased	0.02	0.02	0
1020	30	Unbiased	0.02	0.02	0
1021	30	Unbiased	0.02	0.02	0
1022	30	Unbiased	0.02	0.02	0
1023	30	Unbiased	0.02	0.02	0
1024	30	Unbiased	0.02	0.02	0
1025	30	Biased	0.02	0.02	0
1026	30	Biased	0.02	0.02	0
1027	30	Biased	0.02	0.02	0
1028	30	Biased	0.02	0.02	0
1029	30	Biased	0.02	0.02	0
1030	50	Unbiased	0.02	0.02	0
1031	50	Unbiased	0.02	0.02	0
1032	50	Unbiased	0.02	0.02	0
1033	50	Unbiased	0.02	0.02	0
1034	50	Unbiased	0.02	0.02	0
1035	50	Biased-84Hr-Anneal	0.02	0.02	0
1036	50	Biased-84Hr-Anneal	0.02	0.02	0
1037	50	Biased-84Hr-Anneal	0.02	0.02	0
1038	50	Biased-84Hr-Anneal	0.02	0.02	0
1039	50	Biased-84Hr-Anneal	0.02	0.02	0

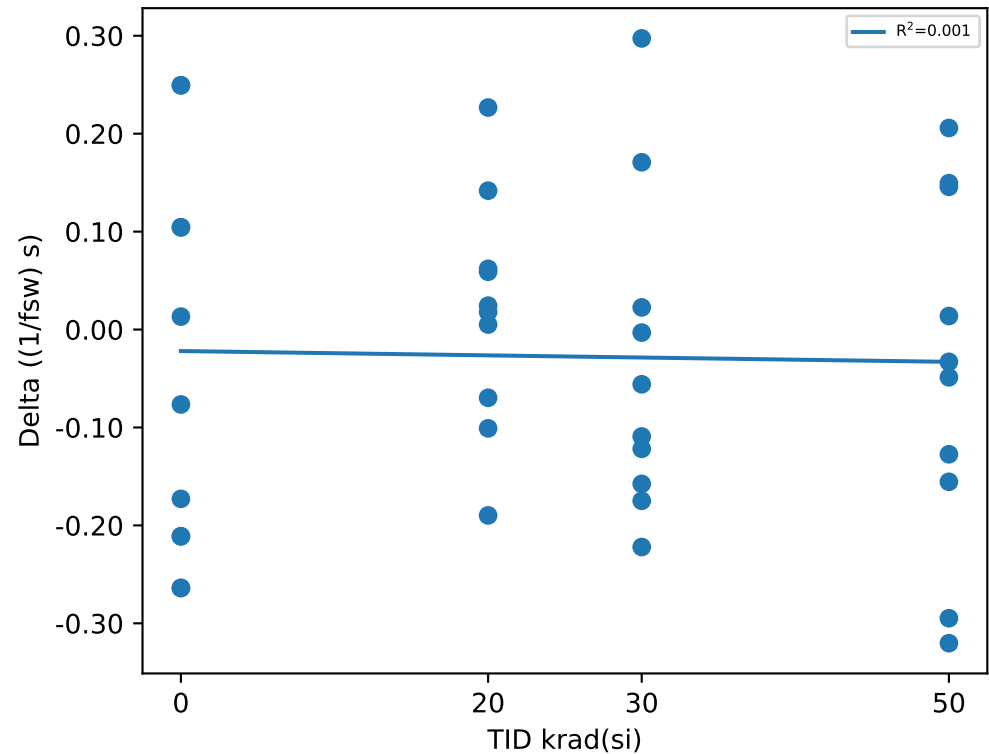
Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
20	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
30	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
50	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 ((1/fsw) s))

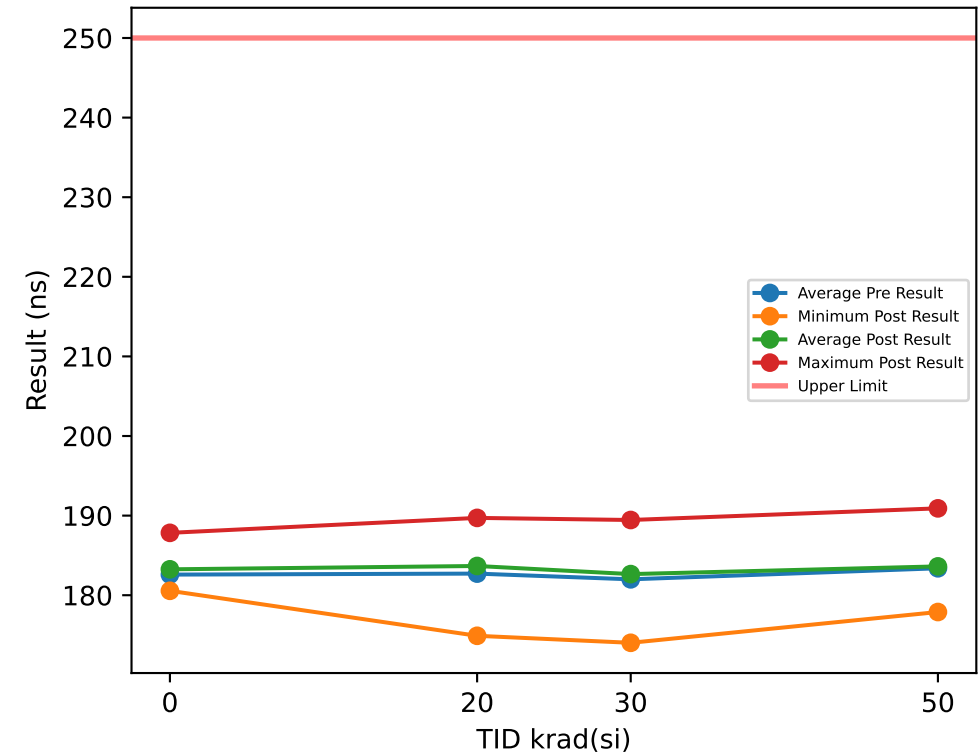
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.4816	3.4948	0.0132
516	0	CORRELATION	3.6719	3.499	-0.1729
721	0	CORRELATION	3.6167	3.5402	-0.0765
723	0	CORRELATION	3.4825	3.5869	0.1044
729	0	CORRELATION	3.7694	3.5583	-0.2111
990	20	Unbiased	3.5062	3.5652	0.059
991	20	Unbiased	3.5306	3.555	0.0244
992	20	Unbiased	3.3744	3.6011	0.2267
993	20	Unbiased	3.4913	3.4964	0.0051
994	20	Unbiased	3.4754	3.6172	0.1418
995	20	Biased	3.645	3.5753	-0.0697
996	20	Biased	3.5321	3.5941	0.062
997	20	Biased	3.5817	3.3919	-0.1898
998	20	Biased	3.5344	3.5523	0.0179
999	20	Biased	3.5946	3.4937	-0.1009
1020	30	Unbiased	3.6292	3.6518	0.0226
1021	30	Unbiased	3.4114	3.7087	0.2973
1022	30	Unbiased	3.6476	3.5384	-0.1092
1023	30	Unbiased	3.6715	3.4966	-0.1749
1024	30	Unbiased	3.6371	3.415	-0.2221
1025	30	Biased	3.4589	3.6297	0.1708
1026	30	Biased	3.638	3.5162	-0.1218
1027	30	Biased	3.5893	3.5862	-0.0031
1028	30	Biased	3.6827	3.6268	-0.0559
1029	30	Biased	3.6962	3.5386	-0.1576
1030	50	Unbiased	3.8166	3.5218	-0.2948
1031	50	Unbiased	3.6983	3.5428	-0.1555
1032	50	Unbiased	3.3587	3.5082	0.1495
1033	50	Unbiased	3.6277	3.5003	-0.1274
1034	50	Unbiased	3.4621	3.6679	0.2058
1035	50	Biased-84Hr-Anneal	3.5701	3.5213	-0.0488
1036	50	Biased-84Hr-Anneal	3.7284	3.4081	-0.3203
1037	50	Biased-84Hr-Anneal	3.6444	3.6114	-0.033
1038	50	Biased-84Hr-Anneal	3.5914	3.6052	0.0138
1039	50	Biased-84Hr-Anneal	3.5307	3.6764	0.1457

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4816	3.6044	3.7694	0.12437	3.4948	3.5358	3.5869	0.039281	-0.2111	-0.06858	0.1044	0.13026
20	3.3744	3.5266	3.645	0.073963	3.3919	3.5442	3.6172	0.067229	-0.1898	0.01765	0.2267	0.11912
30	3.4114	3.6062	3.6962	0.095659	3.415	3.5708	3.7087	0.086453	-0.2221	-0.03539	0.2973	0.16337
50	3.3587	3.6028	3.8166	0.13281	3.4081	3.5563	3.6764	0.083211	-0.3203	-0.0465	0.2058	0.18193

Device Test: 24.120 TIMING|MINON/SW/12//511k//@ON_TIME_MIN_12V

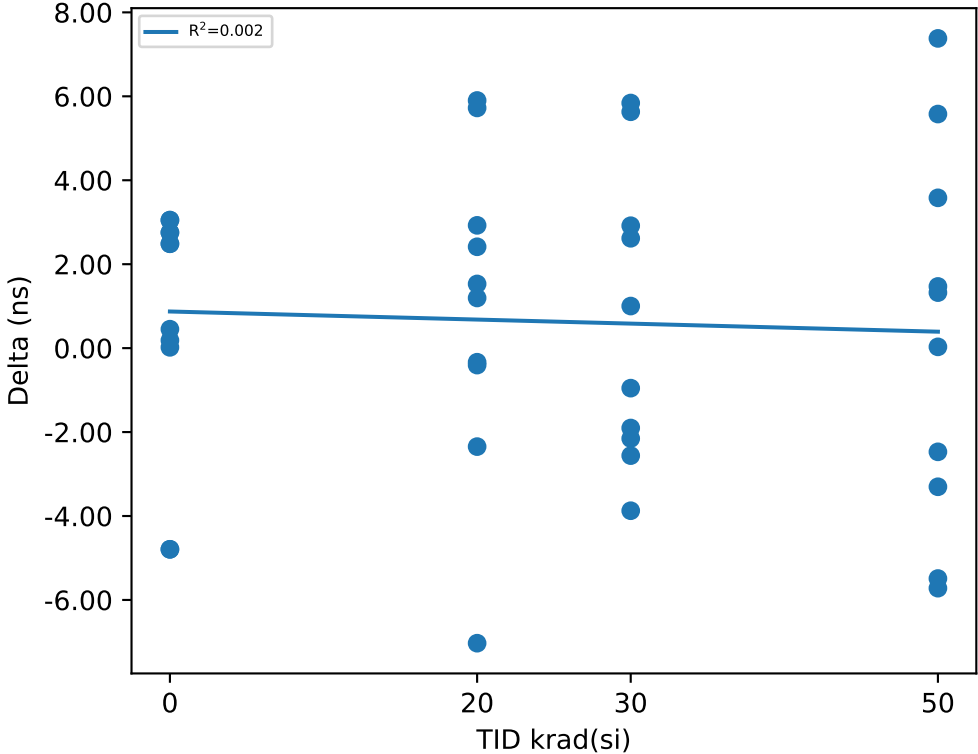
TID vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	183.49	183.95	0.4515
516	0	CORRELATION	182.7	182.88	0.1864
721	0	CORRELATION	181.69	181.71	0.0192
723	0	CORRELATION	185.35	180.55	-4.793
729	0	CORRELATION	179.72	182.47	2.7547
990	20	Unbiased	184.26	185.79	1.5295
991	20	Unbiased	181.97	187.87	5.9007
992	20	Unbiased	181.93	174.9	-7.0303
993	20	Unbiased	178.39	180.81	2.4149
994	20	Unbiased	179.61	179.27	-0.3356
995	20	Biased	176.52	179.45	2.9255
996	20	Biased	187.96	187.55	-0.404
997	20	Biased	188.52	189.71	1.1953
998	20	Biased	190.64	188.3	-2.3464
999	20	Biased	177.34	183.06	5.7233
1020	30	Unbiased	188.45	189.45	1.0028
1021	30	Unbiased	187.43	185.53	-1.9032
1022	30	Unbiased	179.77	185.41	5.6317
1023	30	Unbiased	181.21	184.13	2.9168
1024	30	Unbiased	186.67	185.72	-0.9532
1025	30	Biased	180.56	183.18	2.6176
1026	30	Biased	179.68	177.12	-2.5609
1027	30	Biased	182.86	180.71	-2.1528
1028	30	Biased	175.42	181.26	5.8403
1029	30	Biased	177.9	174.02	-3.8739
1030	50	Unbiased	170.51	177.89	7.3799
1031	50	Unbiased	185.15	181.85	-3.3032
1032	50	Unbiased	184.24	187.82	3.5811
1033	50	Unbiased	181.2	182.52	1.3229
1034	50	Unbiased	175.75	181.33	5.5776
1035	50	Biased-84Hr-Anneal	187.55	187.58	0.0305
1036	50	Biased-84Hr-Anneal	184.71	182.24	-2.4707
1037	50	Biased-84Hr-Anneal	187.12	181.63	-5.4896
1038	50	Biased-84Hr-Anneal	189.44	190.91	1.4698
1039	50	Biased-84Hr-Anneal	188.17	182.45	-5.7193

TID vs Post - Pre Exposure Delta

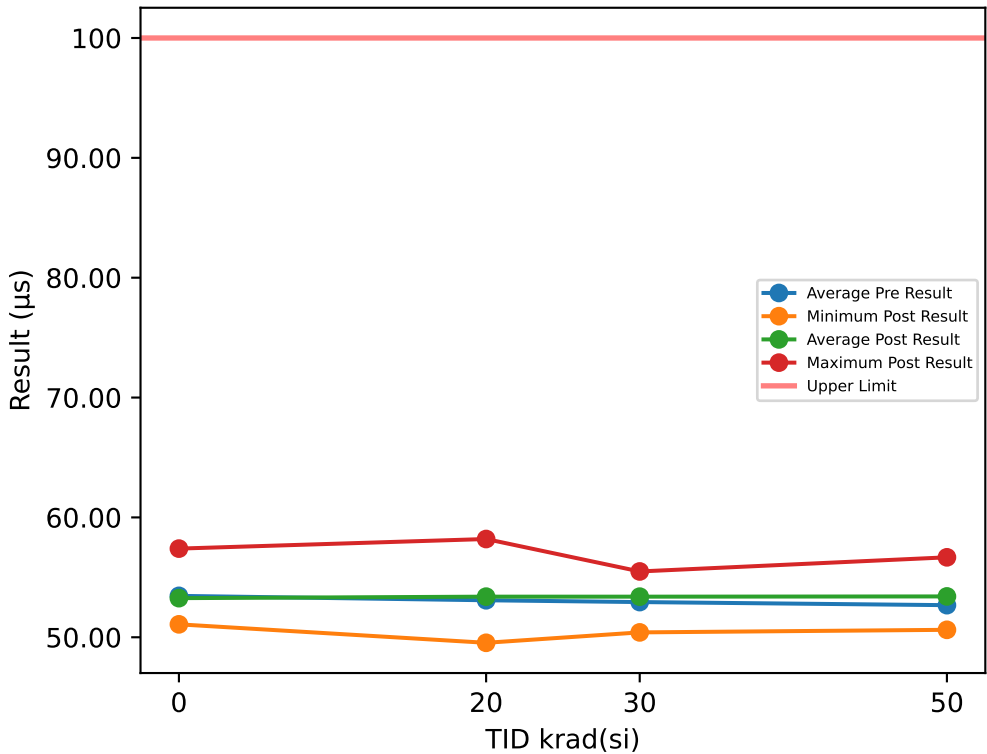


Test Statistics (ns)

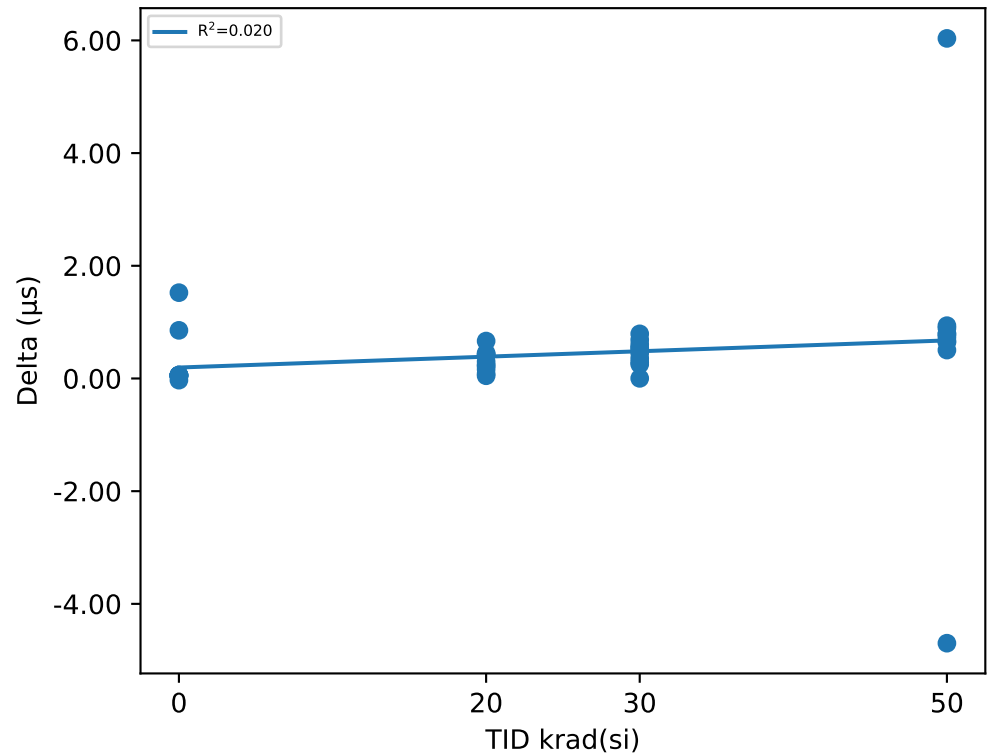
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	179.72	182.59	185.35	2.0912	180.55	182.31	183.95	1.2719	-4.793	-0.27624	2.7547	2.7577
20	176.52	182.71	190.64	4.979	174.9	183.67	189.71	4.9192	-7.0303	0.95729	5.9007	3.8264
30	175.42	182	188.45	4.306	174.02	182.65	189.45	4.5306	-3.8739	0.65652	5.8403	3.4739
50	170.51	183.38	189.44	6.0117	177.89	183.62	190.91	3.89	-5.7193	0.2379	7.3799	4.492

Device Test: 24.121 TIMING|DELAY/EN/12//511k//@T_EN_DELAY

TID vs Result Stats



TID vs Post - Pre Exposure Delta



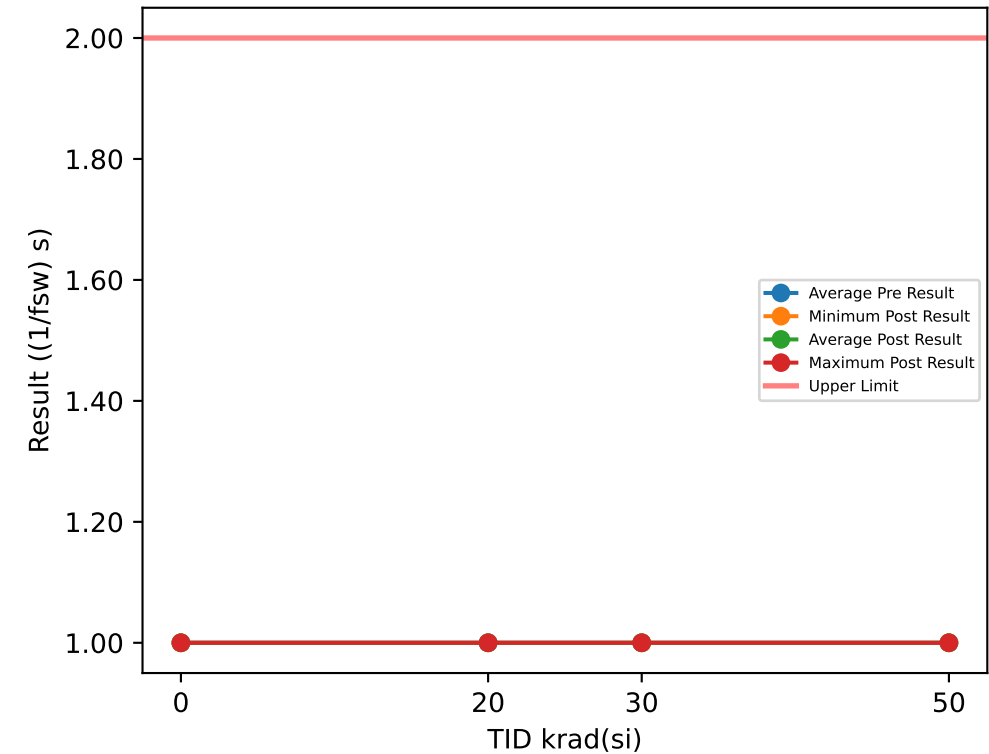
Test Results (Upper Limit = 100.0 (µs))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	55.874	57.398	1.5231
516	0	CORRELATION	55.007	55.861	0.8543
721	0	CORRELATION	51.109	51.079	-0.0299
723	0	CORRELATION	51.425	51.481	0.0554
729	0	CORRELATION	53.858	53.919	0.0604
990	20	Unbiased	57.774	58.198	0.4242
991	20	Unbiased	52.227	52.892	0.6644
992	20	Unbiased	49.823	49.905	0.0817
993	20	Unbiased	54.928	55.092	0.164
994	20	Unbiased	53.103	53.524	0.4204
995	20	Biased	51.829	52.279	0.45
996	20	Biased	55.019	55.067	0.0483
997	20	Biased	53.433	53.733	0.3002
998	20	Biased	53.42	53.659	0.2389
999	20	Biased	49.317	49.539	0.222
1020	30	Unbiased	50.619	51.149	0.5302
1021	30	Unbiased	55.205	55.491	0.2867
1022	30	Unbiased	52.215	52.218	0.0023
1023	30	Unbiased	51.087	51.539	0.4522
1024	30	Unbiased	54.011	54.698	0.6867
1025	30	Biased	54.039	54.585	0.5459
1026	30	Biased	53.926	54.528	0.6021
1027	30	Biased	50.049	50.407	0.3582
1028	30	Biased	54.116	54.908	0.7921
1029	30	Biased	54.106	54.359	0.2526
1030	50	Unbiased	54.252	54.983	0.7313
1031	50	Unbiased	55.733	56.671	0.9373
1032	50	Unbiased	51.919	52.713	0.7942
1033	50	Unbiased	51.775	52.559	0.7839
1034	50	Unbiased	51.197	52.091	0.8939
1035	50	Biased-84Hr-Anneal	50.819	51.462	0.6436
1036	50	Biased-84Hr-Anneal	53.25	53.913	0.6626
1037	50	Biased-84Hr-Anneal	52.626	53.13	0.504
1038	50	Biased-84Hr-Anneal	55.32	50.622	-4.6981
1039	50	Biased-84Hr-Anneal	49.9	55.935	6.0356

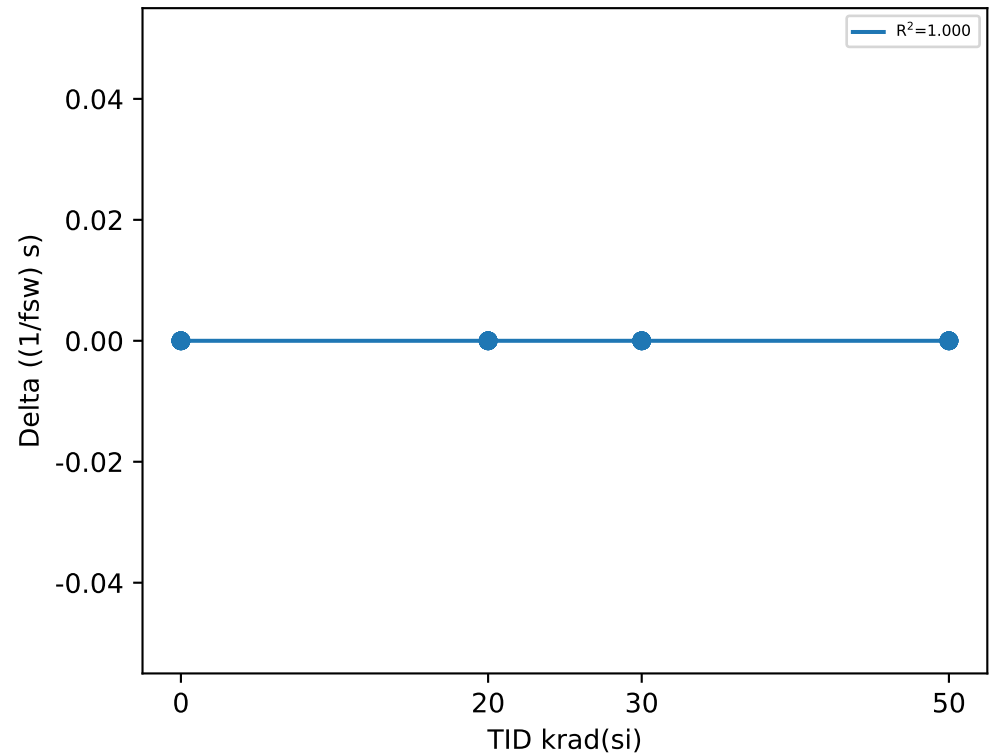
Test Statistics (µs)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	51.109	53.455	55.874	2.1242	51.079	53.947	57.398	2.7331	-0.0299	0.49266	1.5231	0.67892
20	49.317	53.087	57.774	2.5057	49.539	53.389	58.198	2.5275	0.0483	0.30141	0.6644	0.18989
30	50.049	52.937	55.205	1.7921	50.407	53.388	55.491	1.8503	0.0023	0.4509	0.7921	0.23245
50	49.9	52.679	55.733	1.9403	50.622	53.408	56.671	1.9531	-4.6981	0.72883	6.0356	2.5332

TID vs Result Stats



TID vs Post - Pre Exposure Delta

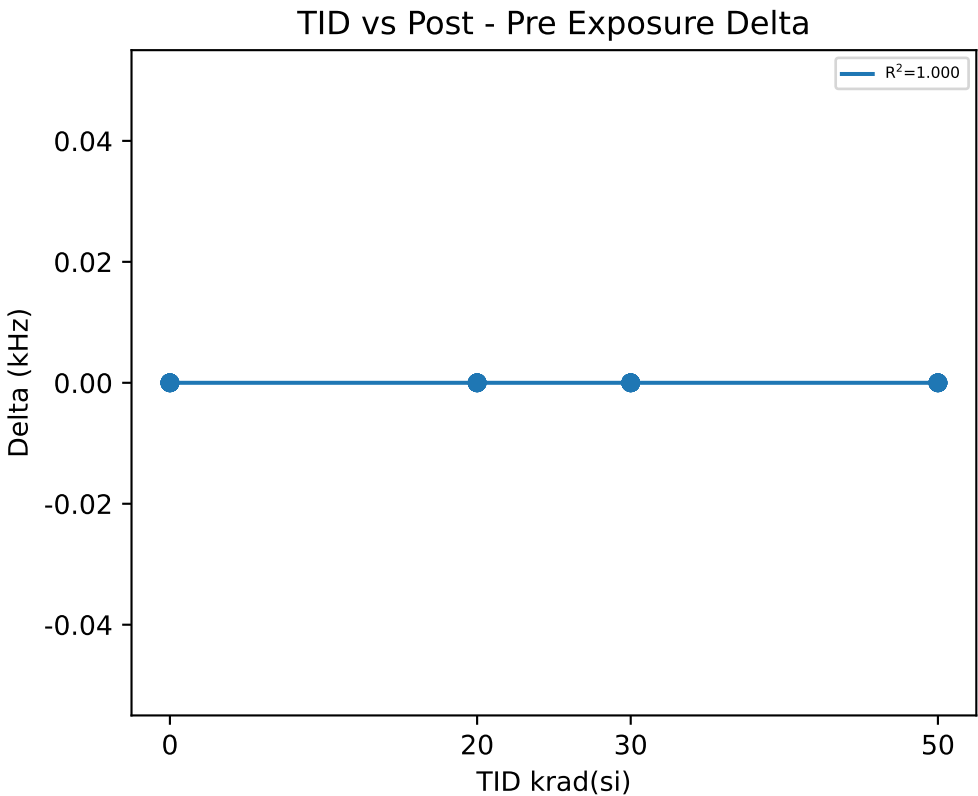
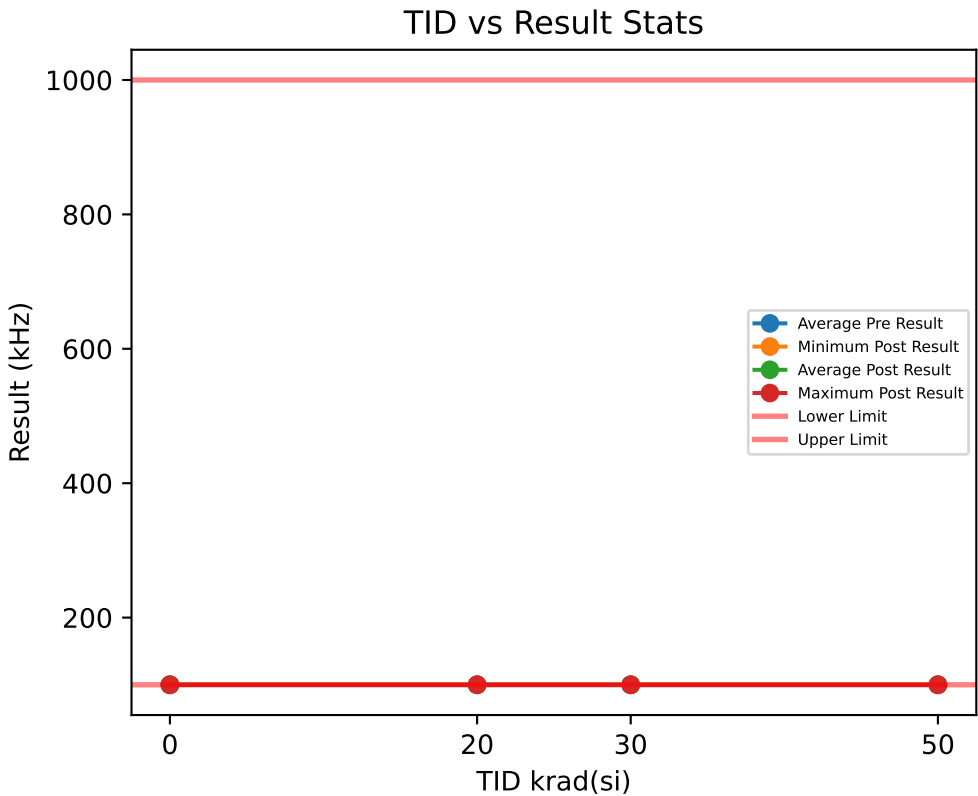


Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1	1	0
516	0	CORRELATION	1	1	0
721	0	CORRELATION	1	1	0
723	0	CORRELATION	1	1	0
729	0	CORRELATION	1	1	0
990	20	Unbiased	1	1	0
991	20	Unbiased	1	1	0
992	20	Unbiased	1	1	0
993	20	Unbiased	1	1	0
994	20	Unbiased	1	1	0
995	20	Biased	1	1	0
996	20	Biased	1	1	0
997	20	Biased	1	1	0
998	20	Biased	1	1	0
999	20	Biased	1	1	0
1020	30	Unbiased	1	1	0
1021	30	Unbiased	1	1	0
1022	30	Unbiased	1	1	0
1023	30	Unbiased	1	1	0
1024	30	Unbiased	1	1	0
1025	30	Biased	1	1	0
1026	30	Biased	1	1	0
1027	30	Biased	1	1	0
1028	30	Biased	1	1	0
1029	30	Biased	1	1	0
1030	50	Unbiased	1	1	0
1031	50	Unbiased	1	1	0
1032	50	Unbiased	1	1	0
1033	50	Unbiased	1	1	0
1034	50	Unbiased	1	1	0
1035	50	Biased-84Hr-Anneal	1	1	0
1036	50	Biased-84Hr-Anneal	1	1	0
1037	50	Biased-84Hr-Anneal	1	1	0
1038	50	Biased-84Hr-Anneal	1	1	0
1039	50	Biased-84Hr-Anneal	1	1	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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	1	1	0	1	1	1	0	0	0	0	0
20	1	1	1	0	1	1	1	0	0	0	0	0
30	1	1	1	0	1	1	1	0	0	0	0	0
50	1	1	1	0	1	1	1	0	0	0	0	0



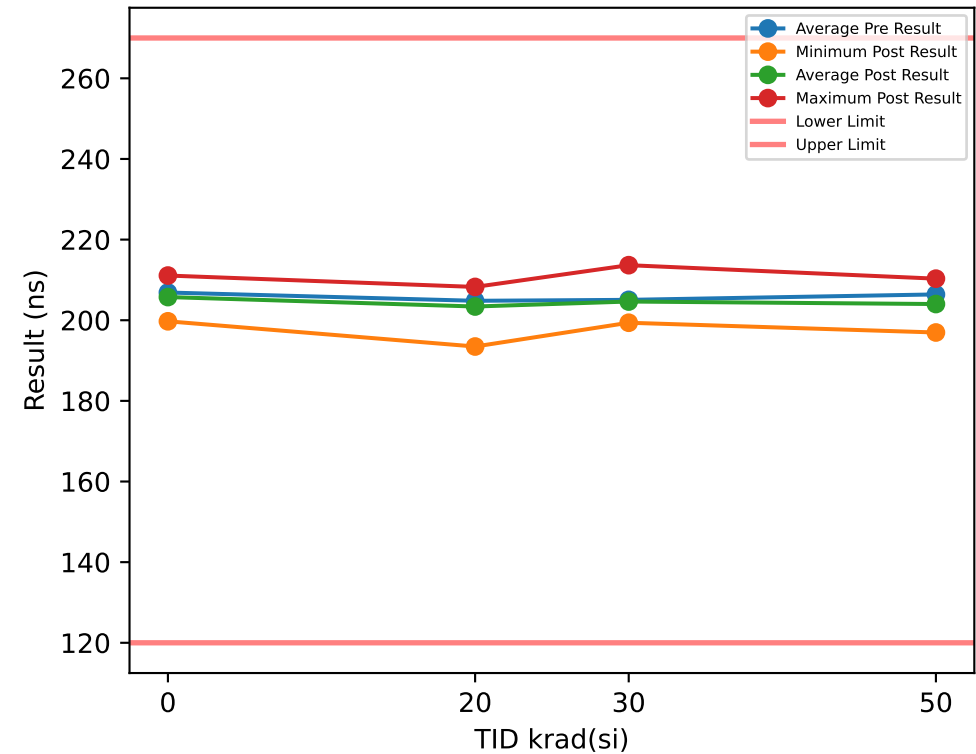
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	100	100	0
516	0	CORRELATION	100	100	0
721	0	CORRELATION	100	100	0
723	0	CORRELATION	100	100	0
729	0	CORRELATION	100	100	0
990	20	Unbiased	100	100	0
991	20	Unbiased	100	100	0
992	20	Unbiased	100	100	0
993	20	Unbiased	100	100	0
994	20	Unbiased	100	100	0
995	20	Biased	100	100	0
996	20	Biased	100	100	0
997	20	Biased	100	100	0
998	20	Biased	100	100	0
999	20	Biased	100	100	0
1020	30	Unbiased	100	100	0
1021	30	Unbiased	100	100	0
1022	30	Unbiased	100	100	0
1023	30	Unbiased	100	100	0
1024	30	Unbiased	100	100	0
1025	30	Biased	100	100	0
1026	30	Biased	100	100	0
1027	30	Biased	100	100	0
1028	30	Biased	100	100	0
1029	30	Biased	100	100	0
1030	50	Unbiased	100	100	0
1031	50	Unbiased	100	100	0
1032	50	Unbiased	100	100	0
1033	50	Unbiased	100	100	0
1034	50	Unbiased	100	100	0
1035	50	Biased-84Hr-Anneal	100	100	0
1036	50	Biased-84Hr-Anneal	100	100	0
1037	50	Biased-84Hr-Anneal	100	100	0
1038	50	Biased-84Hr-Anneal	100	100	0
1039	50	Biased-84Hr-Anneal	100	100	0

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	100	100	100	0	0	0	0	0
20	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0

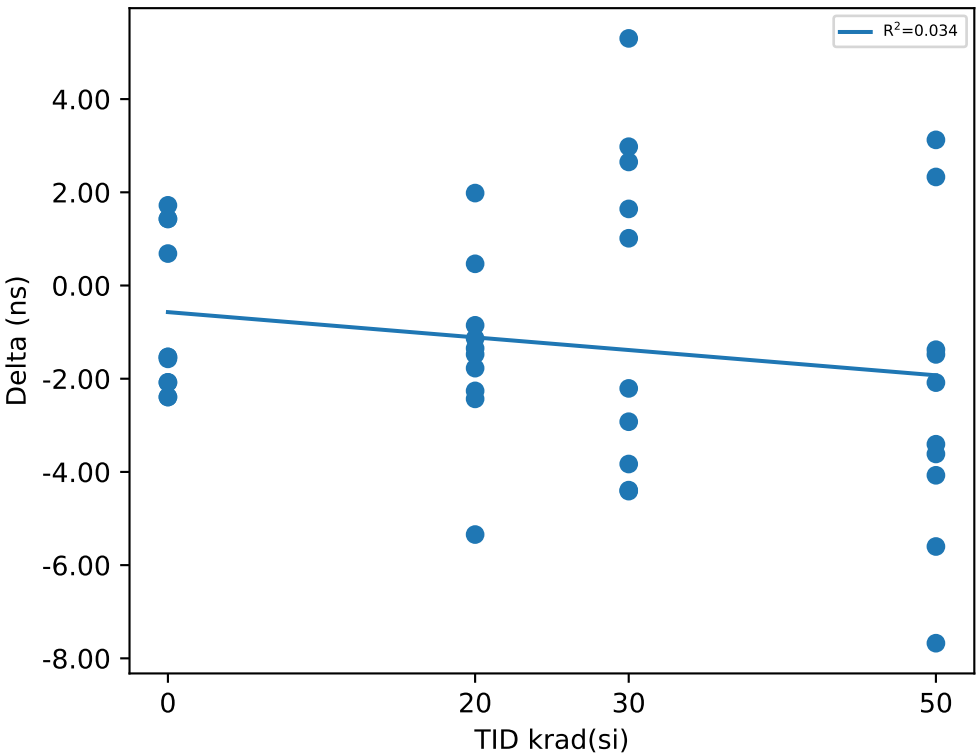
TID vs Result Stats



Test Results (Lower Limit = 120.0, Upper Limit = 270.0 (ns))

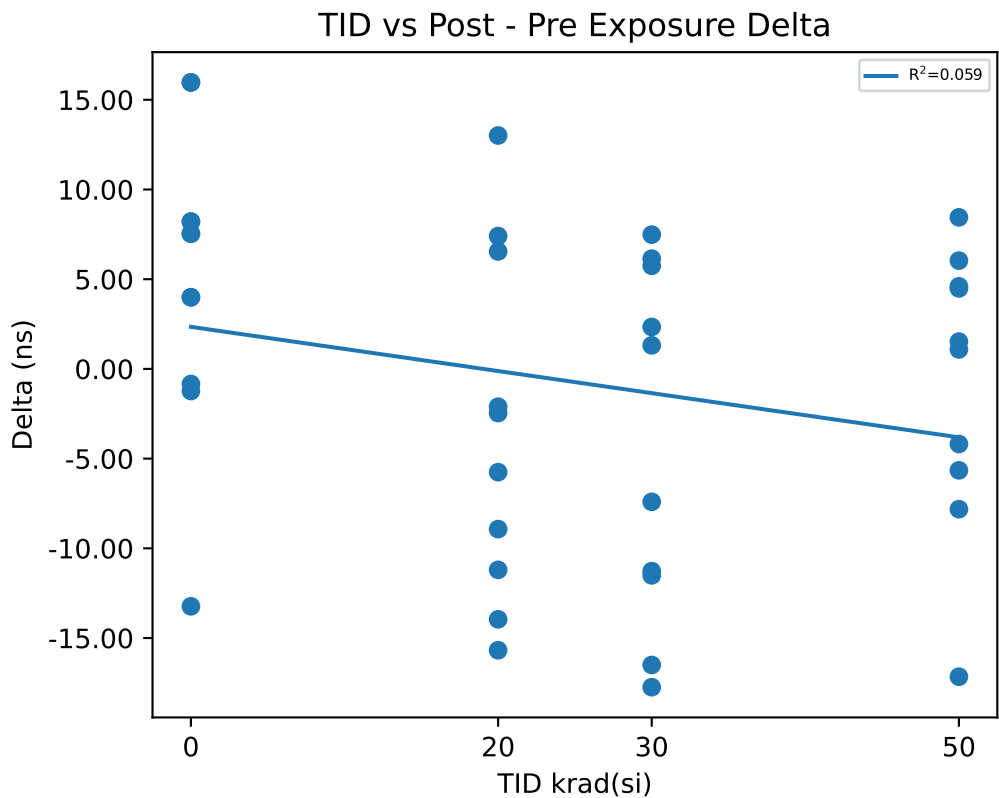
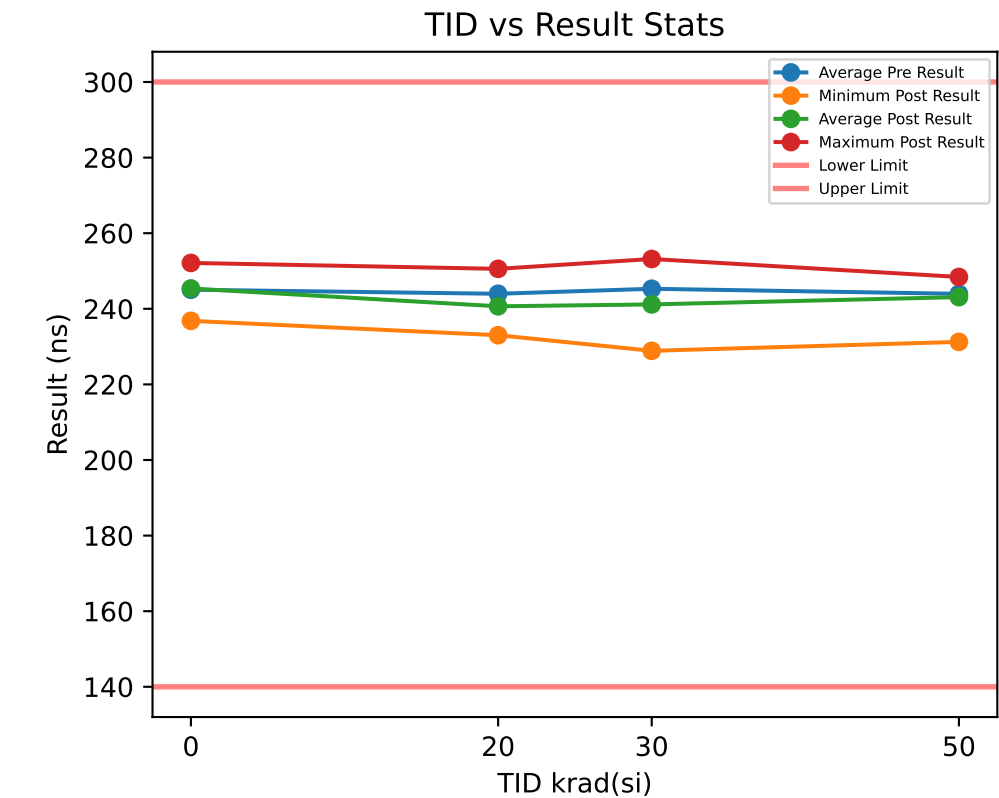
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	209.36	211.08	1.7206
516	0	CORRELATION	205.37	203.79	-1.574
721	0	CORRELATION	207.25	207.93	0.6856
723	0	CORRELATION	201.27	202.7	1.4293
729	0	CORRELATION	211.12	208.73	-2.3925
990	20	Unbiased	204.73	203.59	-1.1359
991	20	Unbiased	198.83	193.48	-5.3436
992	20	Unbiased	199.09	201.07	1.9835
993	20	Unbiased	207.79	208.26	0.4657
994	20	Unbiased	204.2	201.94	-2.2609
995	20	Biased	208.48	207.01	-1.4771
996	20	Biased	204.66	202.89	-1.7733
997	20	Biased	210.07	207.64	-2.4324
998	20	Biased	203.42	202.07	-1.3485
999	20	Biased	206.94	206.09	-0.8539
1020	30	Unbiased	201.86	207.16	5.3026
1021	30	Unbiased	212.01	213.66	1.6437
1022	30	Unbiased	207.29	203.46	-3.8302
1023	30	Unbiased	205.47	202.54	-2.9226
1024	30	Unbiased	204.85	200.44	-4.412
1025	30	Biased	201.85	199.64	-2.2078
1026	30	Biased	208.75	211.73	2.9787
1027	30	Biased	203.71	204.73	1.014
1028	30	Biased	208.04	203.65	-4.3908
1029	30	Biased	196.73	199.38	2.6513
1030	50	Unbiased	202.56	196.96	-5.6002
1031	50	Unbiased	204.68	203.21	-1.4783
1032	50	Unbiased	204.37	200.76	-3.6143
1033	50	Unbiased	207.67	204.26	-3.4057
1034	50	Unbiased	207.64	203.57	-4.0722
1035	50	Biased-84Hr-Anneal	208.23	206.85	-1.3774
1036	50	Biased-84Hr-Anneal	207.32	205.23	-2.0836
1037	50	Biased-84Hr-Anneal	207.19	210.31	3.1252
1038	50	Biased-84Hr-Anneal	202.86	205.19	2.3292
1039	50	Biased-84Hr-Anneal	211.5	203.83	-7.6751

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	201.27	206.87	211.12	3.8094	202.7	206.85	211.08	3.5071	-2.3925	-0.0262	1.7206	1.8488
20	198.83	204.82	210.07	3.7336	193.48	203.4	208.26	4.3431	-5.3436	-1.4176	1.9835	1.9091
30	196.73	205.06	212.01	4.3174	199.38	204.64	213.66	4.8869	-4.412	-0.41731	5.3026	3.5409
50	202.56	206.4	211.5	2.7547	196.96	204.02	210.31	3.5258	-7.6751	-2.3852	3.1252	3.3038



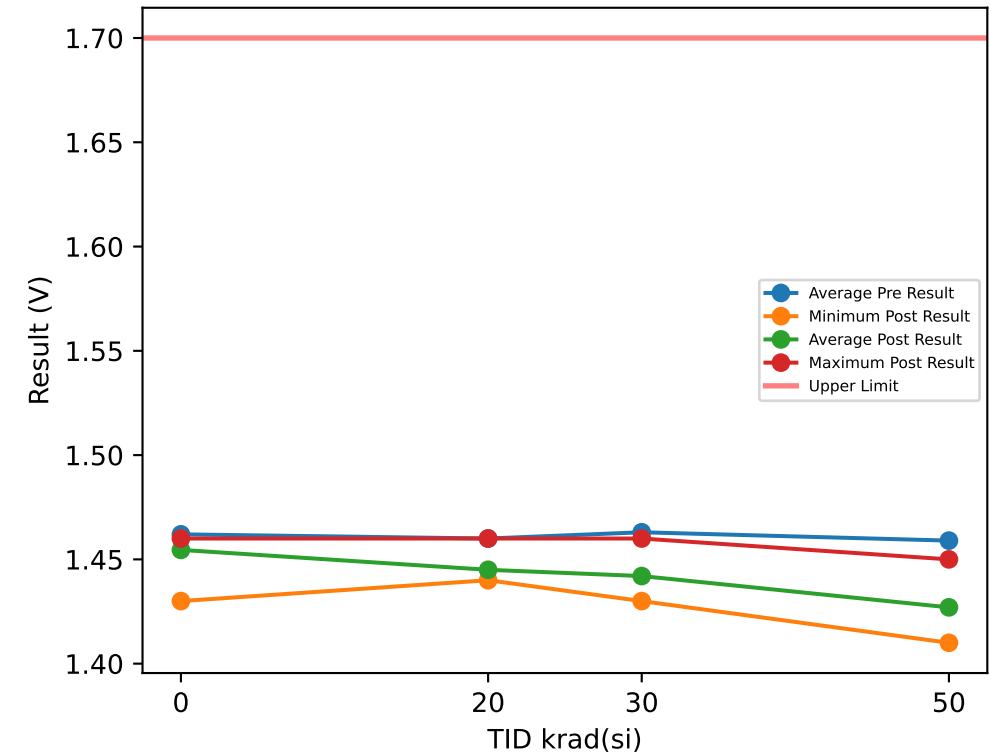
Test Results (Lower Limit = 140.0, Upper Limit = 300.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	253.37	252.13	-1.2333
516	0	CORRELATION	249.19	248.35	-0.8416
721	0	CORRELATION	250.05	236.81	-13.232
723	0	CORRELATION	230.81	246.78	15.968
729	0	CORRELATION	241.81	245.8	3.9938
990	20	Unbiased	235.47	233.01	-2.4614
991	20	Unbiased	242.26	233.33	-8.9283
992	20	Unbiased	239.26	245.8	6.5462
993	20	Unbiased	250.57	236.61	-13.958
994	20	Unbiased	234.8	242.2	7.4047
995	20	Biased	252.68	250.57	-2.1069
996	20	Biased	245.54	234.34	-11.2
997	20	Biased	253.72	247.96	-5.7561
998	20	Biased	233.75	246.76	13.009
999	20	Biased	251.7	236.02	-15.681
1020	30	Unbiased	241.62	249.1	7.4845
1021	30	Unbiased	254.79	243.29	-11.507
1022	30	Unbiased	251.84	240.57	-11.273
1023	30	Unbiased	249.26	232.75	-16.502
1024	30	Unbiased	235.2	241.34	6.1457
1025	30	Biased	246.62	228.88	-17.74
1026	30	Biased	250.84	253.18	2.3371
1027	30	Biased	234.06	235.37	1.3136
1028	30	Biased	251.55	244.14	-7.4087
1029	30	Biased	237.2	242.94	5.7472
1030	50	Unbiased	246.38	238.56	-7.8195
1031	50	Unbiased	243.36	247.85	4.4865
1032	50	Unbiased	248.4	231.24	-17.155
1033	50	Unbiased	236.86	245.31	8.4476
1034	50	Unbiased	251.9	247.72	-4.1855
1035	50	Biased-84Hr-Anneal	236.79	237.88	1.0865
1036	50	Biased-84Hr-Anneal	245.07	246.59	1.5206
1037	50	Biased-84Hr-Anneal	236.37	240.97	4.6025
1038	50	Biased-84Hr-Anneal	240.39	246.42	6.0347
1039	50	Biased-84Hr-Anneal	254.08	248.43	-5.6543

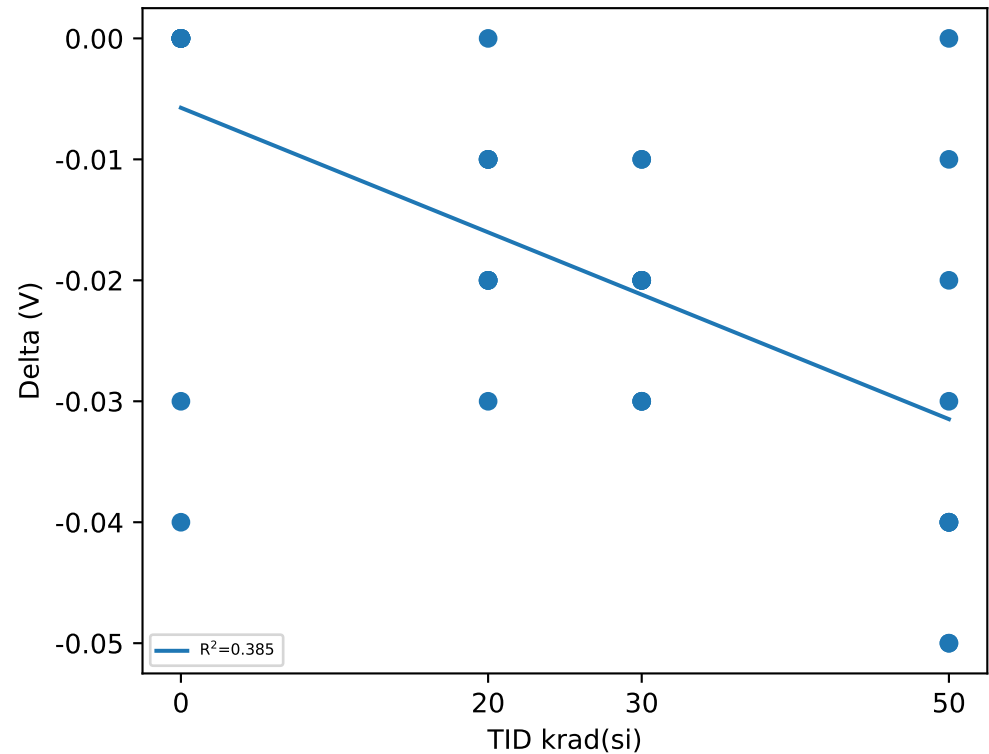
Test Statistics (ns)

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	230.81	245.05	253.37	9.0092	236.81	245.98	252.13	5.6609	-13.232	0.931	15.968	10.535
20	233.75	243.97	253.72	7.9061	233.01	240.66	250.57	6.73	-15.681	-3.3132	13.009	9.6991
30	234.06	245.3	254.79	7.6579	228.88	241.16	253.18	7.299	-17.74	-4.1402	7.4845	9.7979
50	236.37	243.96	254.08	6.3674	231.24	243.1	248.43	5.7093	-17.155	-0.86354	8.4476	7.8176

TID vs Result Stats



TID vs Post - Pre Exposure Delta



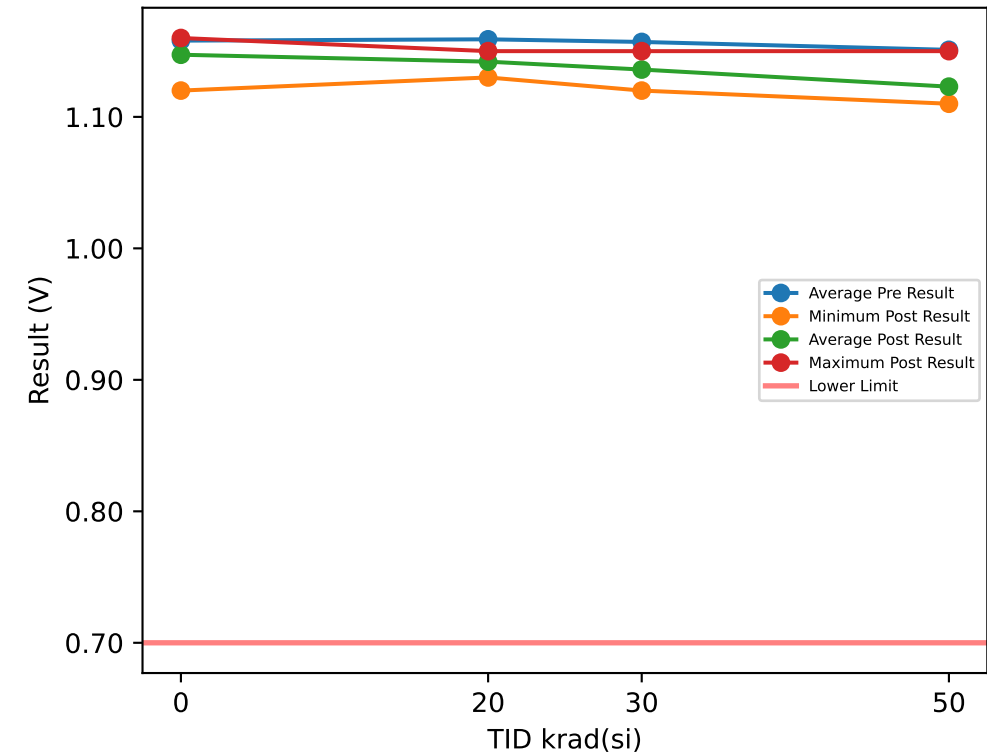
Test Results (Upper Limit = 1.7 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.47	1.43	-0.04
516	0	CORRELATION	1.46	1.43	-0.03
721	0	CORRELATION	1.46	1.46	0
723	0	CORRELATION	1.46	1.46	0
729	0	CORRELATION	1.46	1.46	0
990	20	Unbiased	1.46	1.45	-0.01
991	20	Unbiased	1.47	1.45	-0.02
992	20	Unbiased	1.45	1.44	-0.01
993	20	Unbiased	1.46	1.46	0
994	20	Unbiased	1.46	1.44	-0.02
995	20	Biased	1.47	1.44	-0.03
996	20	Biased	1.45	1.44	-0.01
997	20	Biased	1.46	1.44	-0.02
998	20	Biased	1.46	1.44	-0.02
999	20	Biased	1.46	1.45	-0.01
1020	30	Unbiased	1.47	1.44	-0.03
1021	30	Unbiased	1.45	1.43	-0.02
1022	30	Unbiased	1.46	1.43	-0.03
1023	30	Unbiased	1.46	1.44	-0.02
1024	30	Unbiased	1.46	1.43	-0.03
1025	30	Biased	1.47	1.46	-0.01
1026	30	Biased	1.46	1.45	-0.01
1027	30	Biased	1.47	1.45	-0.02
1028	30	Biased	1.47	1.45	-0.02
1029	30	Biased	1.46	1.44	-0.02
1030	50	Unbiased	1.46	1.41	-0.05
1031	50	Unbiased	1.46	1.42	-0.04
1032	50	Unbiased	1.46	1.42	-0.04
1033	50	Unbiased	1.48	1.43	-0.05
1034	50	Unbiased	1.46	1.42	-0.04
1035	50	Biased-84Hr-Anneal	1.46	1.45	-0.01
1036	50	Biased-84Hr-Anneal	1.44	1.42	-0.02
1037	50	Biased-84Hr-Anneal	1.45	1.42	-0.03
1038	50	Biased-84Hr-Anneal	1.45	1.45	0
1039	50	Biased-84Hr-Anneal	1.47	1.43	-0.04

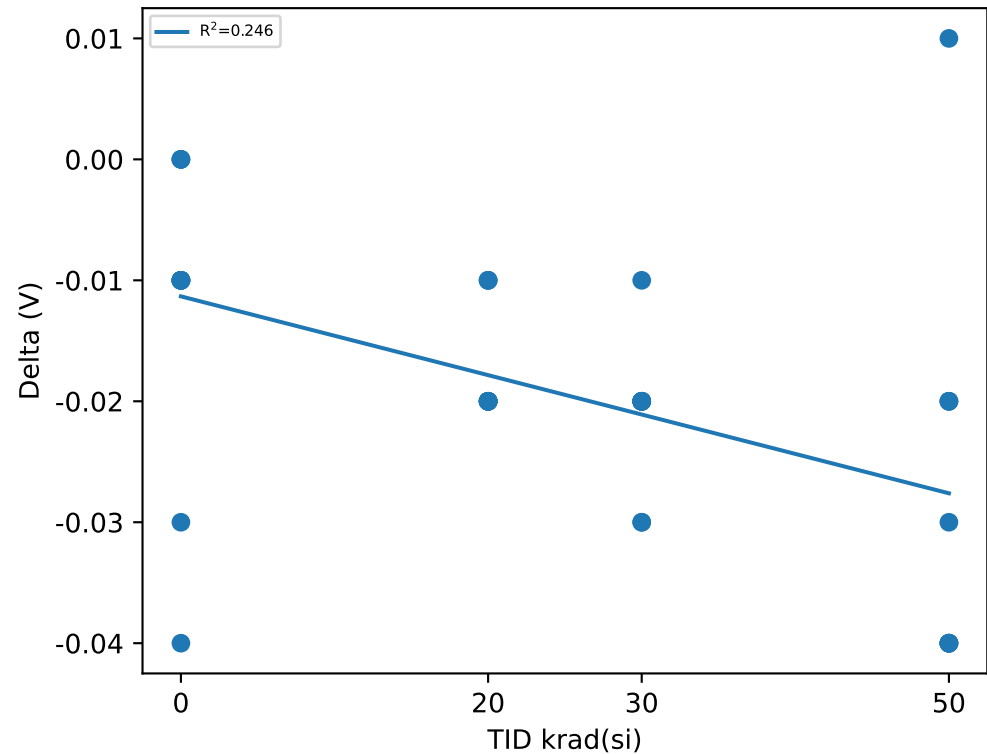
Test Statistics (V)

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	1.46	1.462	1.47	0.0044721	1.43	1.448	1.46	0.016432	-0.04	-0.014	0	0.019494
20	1.45	1.46	1.47	0.0066667	1.44	1.445	1.46	0.0070711	-0.03	-0.015	0	0.0084984
30	1.45	1.463	1.47	0.0067495	1.43	1.442	1.46	0.010328	-0.03	-0.021	-0.01	0.0073786
50	1.44	1.459	1.48	0.011005	1.41	1.427	1.45	0.013375	-0.05	-0.032	0	0.016865

TID vs Result Stats



TID vs Post - Pre Exposure Delta



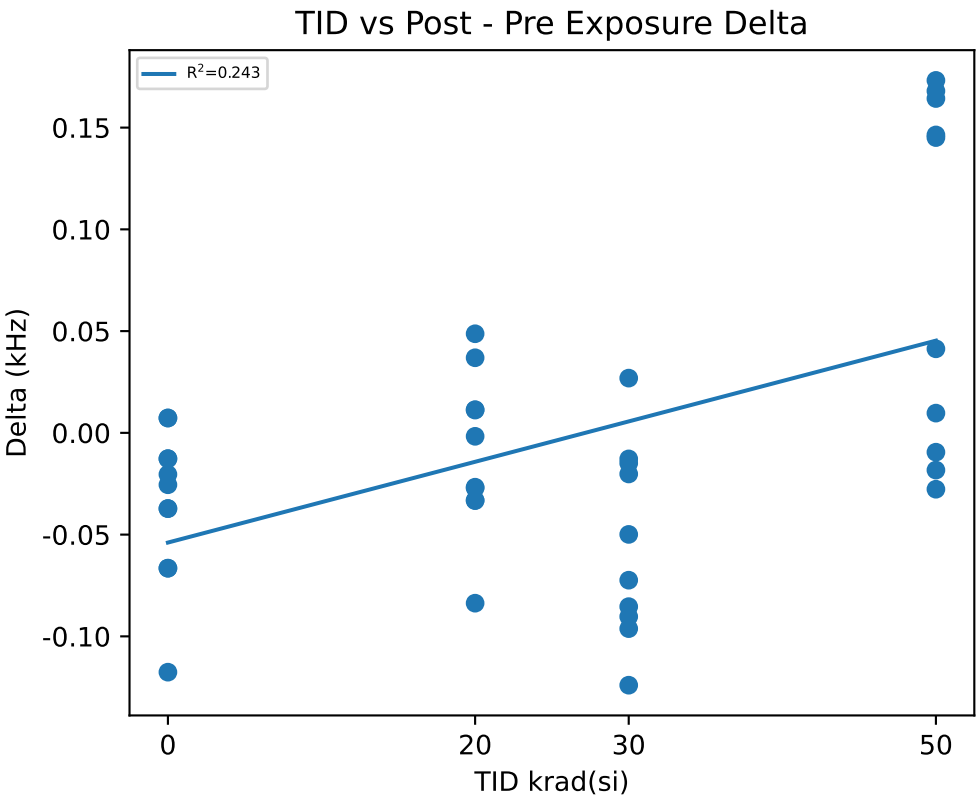
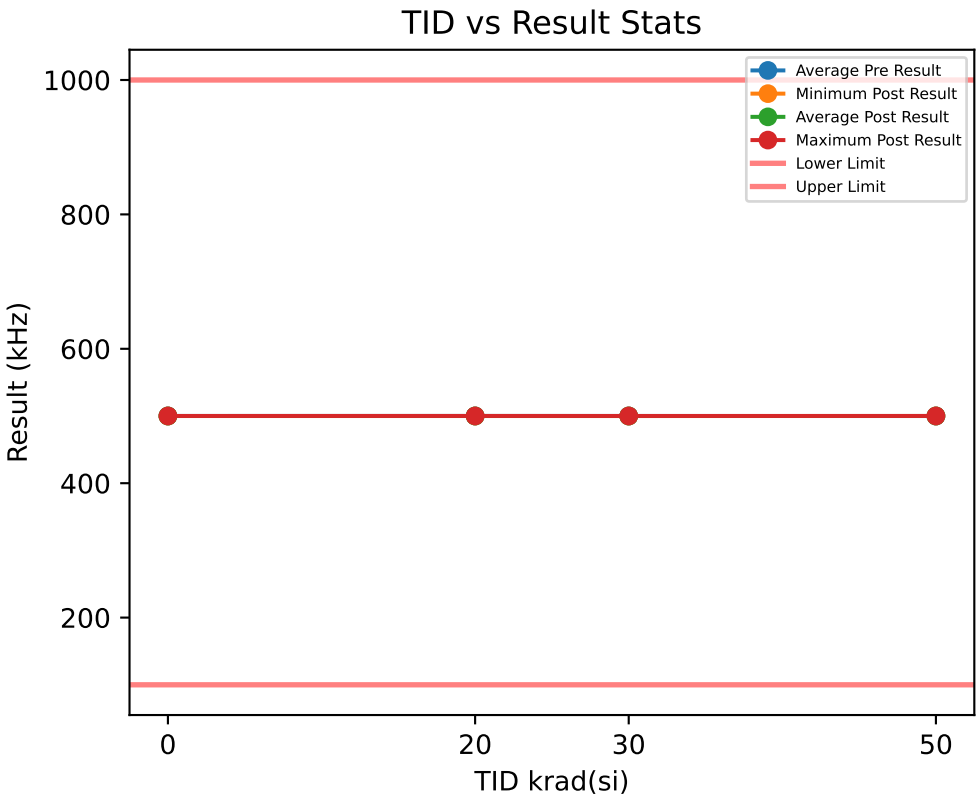
Test Results (Lower Limit = 0.7 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.16	1.13	-0.03
516	0	CORRELATION	1.16	1.12	-0.04
721	0	CORRELATION	1.15	1.15	0
723	0	CORRELATION	1.16	1.15	-0.01
729	0	CORRELATION	1.16	1.16	0
990	20	Unbiased	1.16	1.15	-0.01
991	20	Unbiased	1.17	1.15	-0.02
992	20	Unbiased	1.16	1.14	-0.02
993	20	Unbiased	1.16	1.15	-0.01
994	20	Unbiased	1.16	1.14	-0.02
995	20	Biased	1.16	1.14	-0.02
996	20	Biased	1.16	1.14	-0.02
997	20	Biased	1.15	1.13	-0.02
998	20	Biased	1.16	1.14	-0.02
999	20	Biased	1.15	1.14	-0.01
1020	30	Unbiased	1.17	1.14	-0.03
1021	30	Unbiased	1.14	1.12	-0.02
1022	30	Unbiased	1.15	1.12	-0.03
1023	30	Unbiased	1.16	1.14	-0.02
1024	30	Unbiased	1.15	1.13	-0.02
1025	30	Biased	1.17	1.15	-0.02
1026	30	Biased	1.16	1.15	-0.01
1027	30	Biased	1.16	1.14	-0.02
1028	30	Biased	1.16	1.14	-0.02
1029	30	Biased	1.15	1.13	-0.02
1030	50	Unbiased	1.15	1.11	-0.04
1031	50	Unbiased	1.15	1.12	-0.03
1032	50	Unbiased	1.15	1.11	-0.04
1033	50	Unbiased	1.16	1.12	-0.04
1034	50	Unbiased	1.15	1.11	-0.04
1035	50	Biased-84Hr-Anneal	1.16	1.14	-0.02
1036	50	Biased-84Hr-Anneal	1.14	1.12	-0.02
1037	50	Biased-84Hr-Anneal	1.14	1.12	-0.02
1038	50	Biased-84Hr-Anneal	1.14	1.15	0.01
1039	50	Biased-84Hr-Anneal	1.17	1.13	-0.04

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	1.15	1.158	1.16	0.0044721	1.12	1.142	1.16	0.016432	-0.04	-0.016	0	0.018166
20	1.15	1.159	1.17	0.0056765	1.13	1.142	1.15	0.0063246	-0.02	-0.017	-0.01	0.0048305
30	1.14	1.157	1.17	0.0094868	1.12	1.136	1.15	0.01075	-0.03	-0.021	-0.01	0.0056765
50	1.14	1.151	1.17	0.0099443	1.11	1.123	1.15	0.013375	-0.04	-0.028	0.01	0.016193

Device Test: 24.140 FREQ|500kHz/SYNC1/14//OPEN//@SYNC_FREQ_RANGE



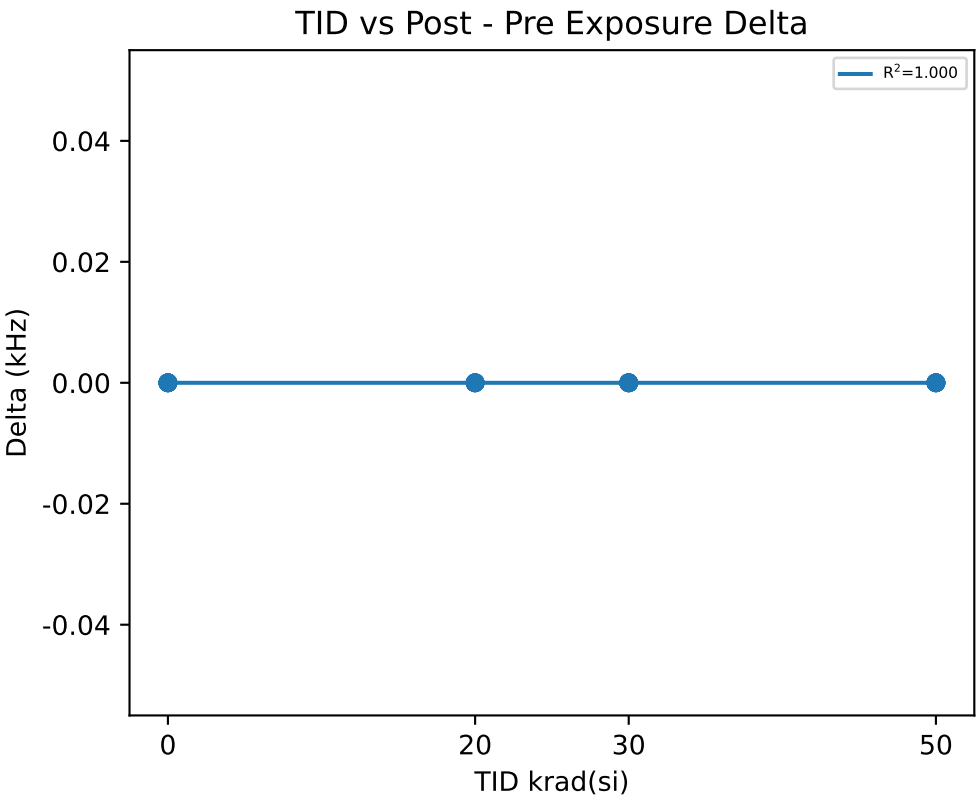
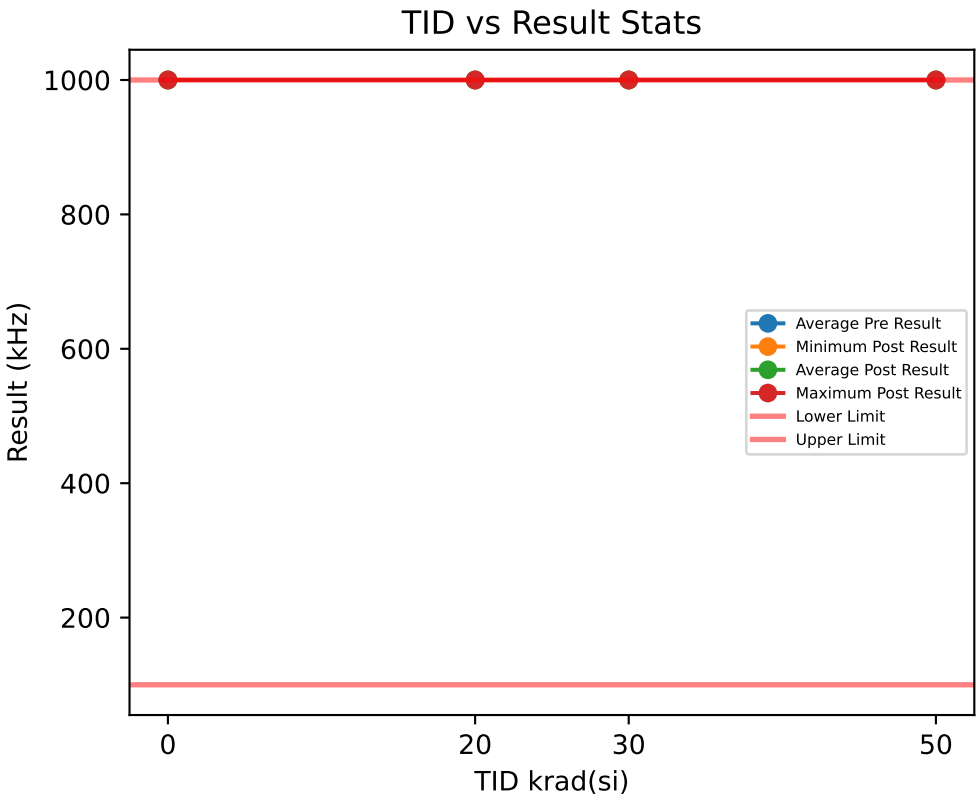
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	500.06	500.04	-0.0204
516	0	CORRELATION	500.05	500.02	-0.0255
721	0	CORRELATION	500.07	499.95	-0.1176
723	0	CORRELATION	500.02	499.95	-0.0665
729	0	CORRELATION	500.04	500	-0.0372
990	20	Unbiased	500.02	500.02	-0.0017
991	20	Unbiased	500.03	500.05	0.0114
992	20	Unbiased	500.05	500.06	0.0112
993	20	Unbiased	500.03	499.94	-0.0837
994	20	Unbiased	500.02	500.07	0.0487
995	20	Biased	500.09	500.05	-0.0333
996	20	Biased	500.04	500.01	-0.0267
997	20	Biased	500.07	500.04	-0.0271
998	20	Biased	500.01	500.05	0.0369
999	20	Biased	500.05	500.02	-0.0331
1020	30	Unbiased	500.04	499.96	-0.0854
1021	30	Unbiased	500.03	499.94	-0.0903
1022	30	Unbiased	500.07	499.97	-0.0962
1023	30	Unbiased	500.05	500	-0.0499
1024	30	Unbiased	500.01	500.03	0.0269
1025	30	Biased	500.05	499.92	-0.124
1026	30	Biased	500.04	499.96	-0.0724
1027	30	Biased	500.01	499.99	-0.0202
1028	30	Biased	500.05	500.04	-0.0128
1029	30	Biased	500.04	500.02	-0.0149
1030	50	Unbiased	500.04	500.05	0.0097
1031	50	Unbiased	500.03	500.02	-0.0095
1032	50	Unbiased	500.05	500.02	-0.0277
1033	50	Unbiased	500.02	500.06	0.0413
1034	50	Unbiased	500.04	500.02	-0.0183
1035	50	Biased-84Hr-Anneal	499.85	500.02	0.1643
1036	50	Biased-84Hr-Anneal	499.87	500.04	0.168
1037	50	Biased-84Hr-Anneal	499.86	500.01	0.1464
1038	50	Biased-84Hr-Anneal	499.85	500.02	0.1732
1039	50	Biased-84Hr-Anneal	499.87	500.01	0.1451

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	0.017917	499.95	499.99	500.04	0.039613	-0.1176	-0.05344	-0.0204	0.040072
20	500.01	500.04	500.09	0.02421	499.94	500.03	500.07	0.036437	-0.0837	-0.00974	0.0487	0.039016
30	500.01	500.04	500.07	0.017606	499.92	499.98	500.04	0.03943	-0.124	-0.05392	0.0269	0.047438
50	499.85	499.95	500.05	0.092628	500.01	500.03	500.06	0.016662	-0.0277	0.07925	0.1732	0.086853

Device Test: 24.141 FREQ|1000kHz/SYNC1/14//OPEN//@SYNC_FREQ_RANGE



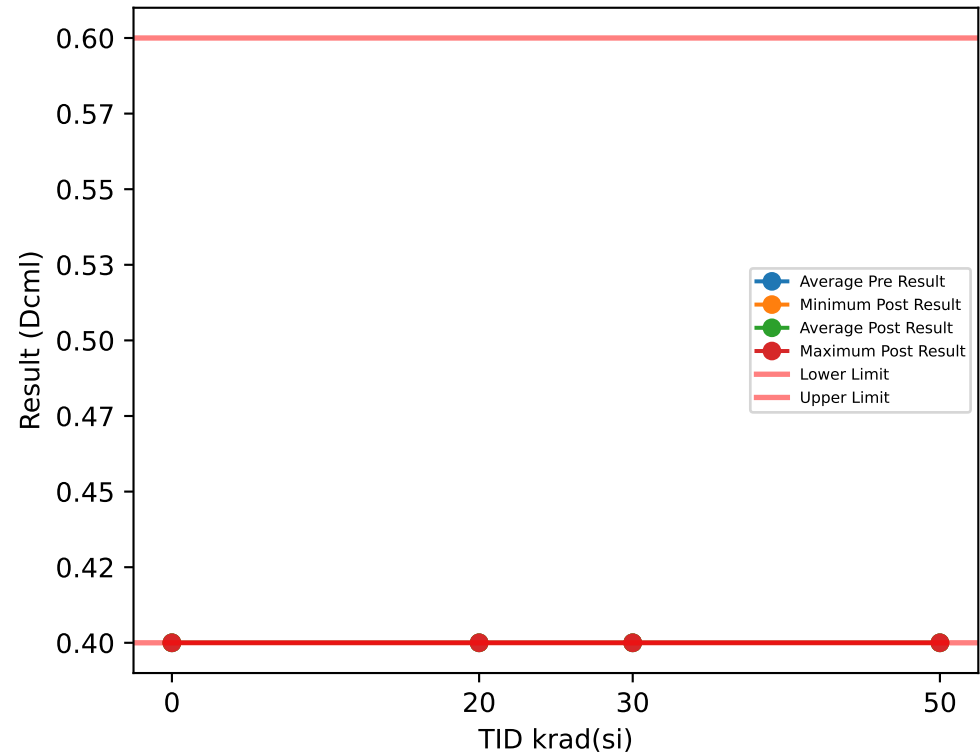
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1000	1000	0
516	0	CORRELATION	1000	1000	0
721	0	CORRELATION	1000	1000	0
723	0	CORRELATION	1000	1000	0
729	0	CORRELATION	1000	1000	0
990	20	Unbiased	1000	1000	0
991	20	Unbiased	1000	1000	0
992	20	Unbiased	1000	1000	0
993	20	Unbiased	1000	1000	0
994	20	Unbiased	1000	1000	0
995	20	Biased	1000	1000	0
996	20	Biased	1000	1000	0
997	20	Biased	1000	1000	0
998	20	Biased	1000	1000	0
999	20	Biased	1000	1000	0
1020	30	Unbiased	1000	1000	0
1021	30	Unbiased	1000	1000	0
1022	30	Unbiased	1000	1000	0
1023	30	Unbiased	1000	1000	0
1024	30	Unbiased	1000	1000	0
1025	30	Biased	1000	1000	0
1026	30	Biased	1000	1000	0
1027	30	Biased	1000	1000	0
1028	30	Biased	1000	1000	0
1029	30	Biased	1000	1000	0
1030	50	Unbiased	1000	1000	0
1031	50	Unbiased	1000	1000	0
1032	50	Unbiased	1000	1000	0
1033	50	Unbiased	1000	1000	0
1034	50	Unbiased	1000	1000	0
1035	50	Biased-84Hr-Anneal	1000	1000	0
1036	50	Biased-84Hr-Anneal	1000	1000	0
1037	50	Biased-84Hr-Anneal	1000	1000	0
1038	50	Biased-84Hr-Anneal	1000	1000	0
1039	50	Biased-84Hr-Anneal	1000	1000	0

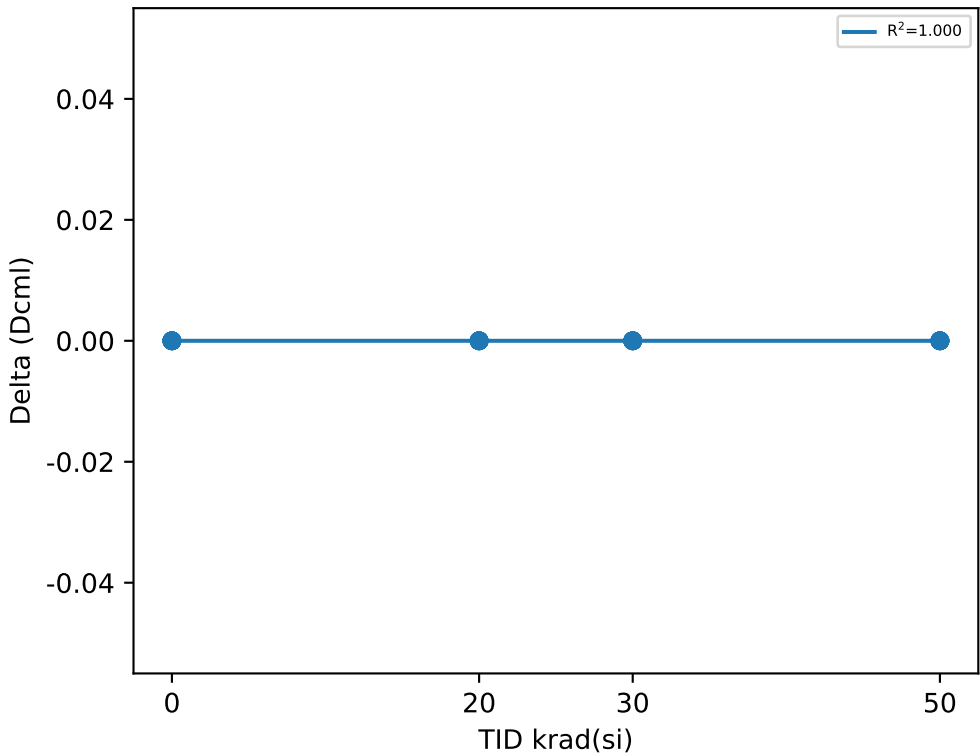
Test Statistics (kHz)

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	1000	1000	0	1000	1000	1000	0	0	0	0	0
20	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
30	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
50	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



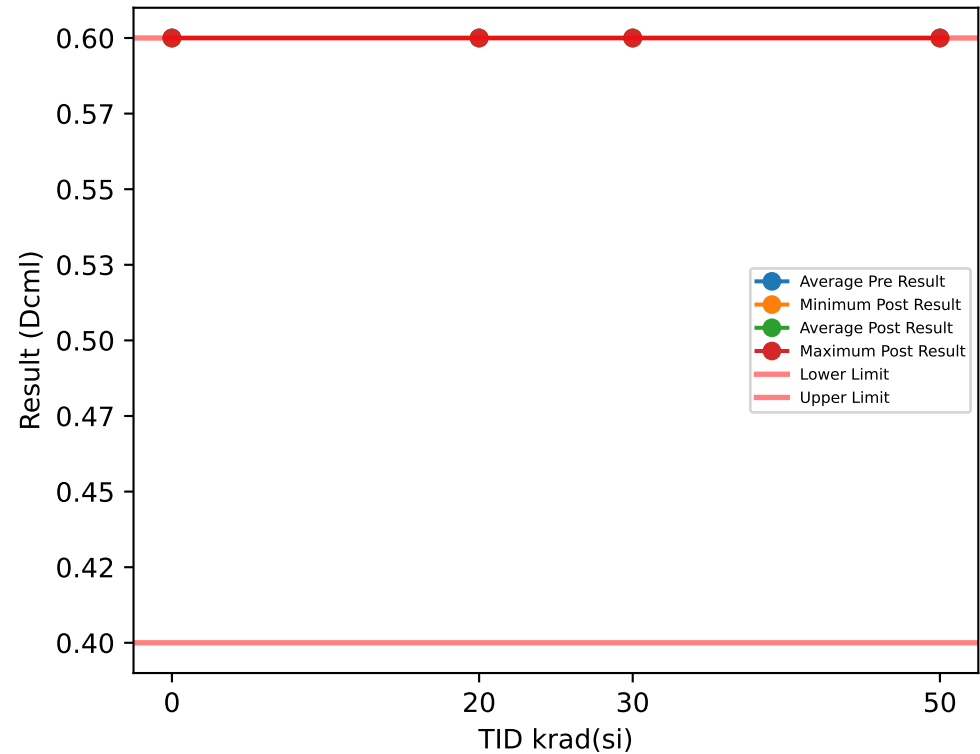
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.4	0.4	0
516	0	CORRELATION	0.4	0.4	0
721	0	CORRELATION	0.4	0.4	0
723	0	CORRELATION	0.4	0.4	0
729	0	CORRELATION	0.4	0.4	0
990	20	Unbiased	0.4	0.4	0
991	20	Unbiased	0.4	0.4	0
992	20	Unbiased	0.4	0.4	0
993	20	Unbiased	0.4	0.4	0
994	20	Unbiased	0.4	0.4	0
995	20	Biased	0.4	0.4	0
996	20	Biased	0.4	0.4	0
997	20	Biased	0.4	0.4	0
998	20	Biased	0.4	0.4	0
999	20	Biased	0.4	0.4	0
1020	30	Unbiased	0.4	0.4	0
1021	30	Unbiased	0.4	0.4	0
1022	30	Unbiased	0.4	0.4	0
1023	30	Unbiased	0.4	0.4	0
1024	30	Unbiased	0.4	0.4	0
1025	30	Biased	0.4	0.4	0
1026	30	Biased	0.4	0.4	0
1027	30	Biased	0.4	0.4	0
1028	30	Biased	0.4	0.4	0
1029	30	Biased	0.4	0.4	0
1030	50	Unbiased	0.4	0.4	0
1031	50	Unbiased	0.4	0.4	0
1032	50	Unbiased	0.4	0.4	0
1033	50	Unbiased	0.4	0.4	0
1034	50	Unbiased	0.4	0.4	0
1035	50	Biased-84Hr-Anneal	0.4	0.4	0
1036	50	Biased-84Hr-Anneal	0.4	0.4	0
1037	50	Biased-84Hr-Anneal	0.4	0.4	0
1038	50	Biased-84Hr-Anneal	0.4	0.4	0
1039	50	Biased-84Hr-Anneal	0.4	0.4	0

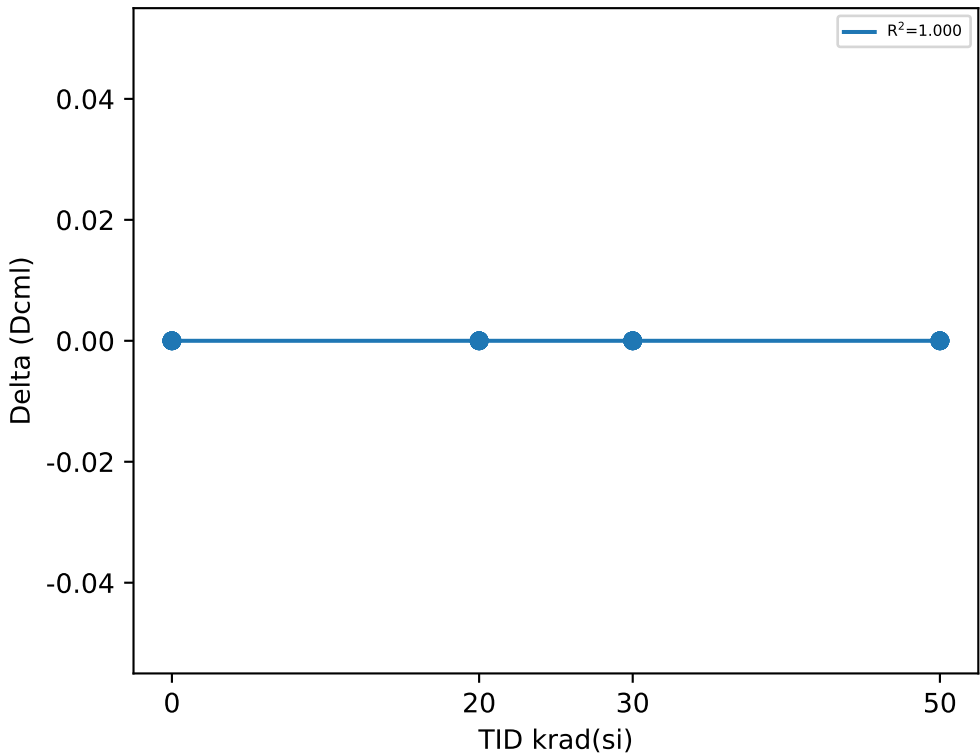
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
20	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
30	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
50	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



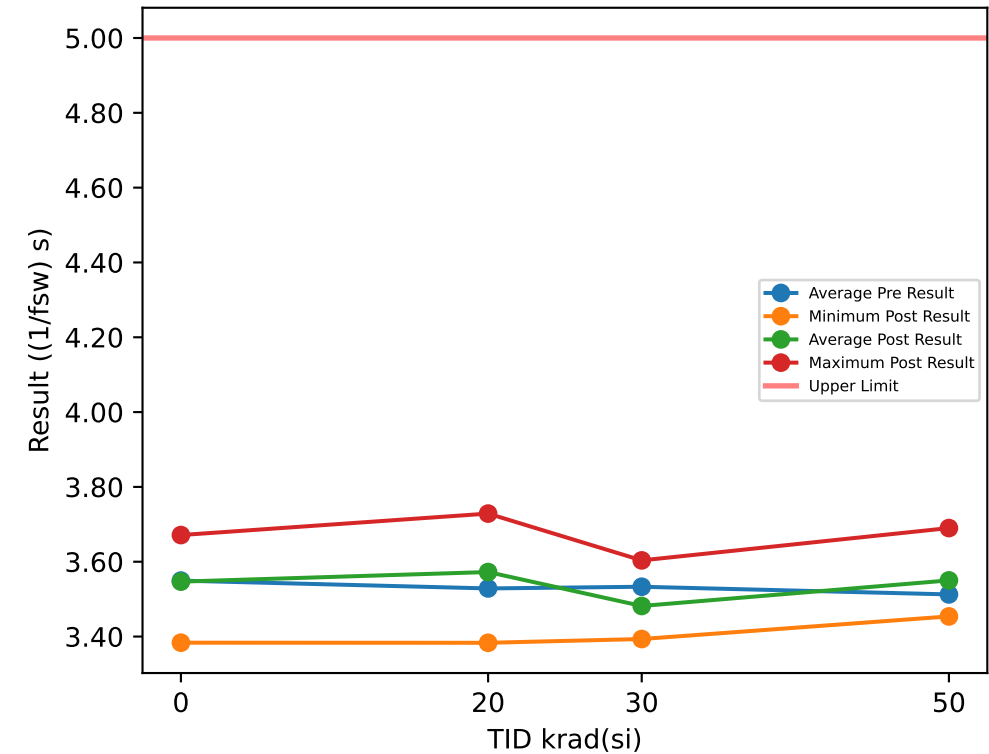
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6	0.6	0
516	0	CORRELATION	0.6	0.6	0
721	0	CORRELATION	0.6	0.6	0
723	0	CORRELATION	0.6	0.6	0
729	0	CORRELATION	0.6	0.6	0
990	20	Unbiased	0.6	0.6	0
991	20	Unbiased	0.6	0.6	0
992	20	Unbiased	0.6	0.6	0
993	20	Unbiased	0.6	0.6	0
994	20	Unbiased	0.6	0.6	0
995	20	Biased	0.6	0.6	0
996	20	Biased	0.6	0.6	0
997	20	Biased	0.6	0.6	0
998	20	Biased	0.6	0.6	0
999	20	Biased	0.6	0.6	0
1020	30	Unbiased	0.6	0.6	0
1021	30	Unbiased	0.6	0.6	0
1022	30	Unbiased	0.6	0.6	0
1023	30	Unbiased	0.6	0.6	0
1024	30	Unbiased	0.6	0.6	0
1025	30	Biased	0.6	0.6	0
1026	30	Biased	0.6	0.6	0
1027	30	Biased	0.6	0.6	0
1028	30	Biased	0.6	0.6	0
1029	30	Biased	0.6	0.6	0
1030	50	Unbiased	0.6	0.6	0
1031	50	Unbiased	0.6	0.6	0
1032	50	Unbiased	0.6	0.6	0
1033	50	Unbiased	0.6	0.6	0
1034	50	Unbiased	0.6	0.6	0
1035	50	Biased-84Hr-Anneal	0.6	0.6	0
1036	50	Biased-84Hr-Anneal	0.6	0.6	0
1037	50	Biased-84Hr-Anneal	0.6	0.6	0
1038	50	Biased-84Hr-Anneal	0.6	0.6	0
1039	50	Biased-84Hr-Anneal	0.6	0.6	0

Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
20	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
30	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
50	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

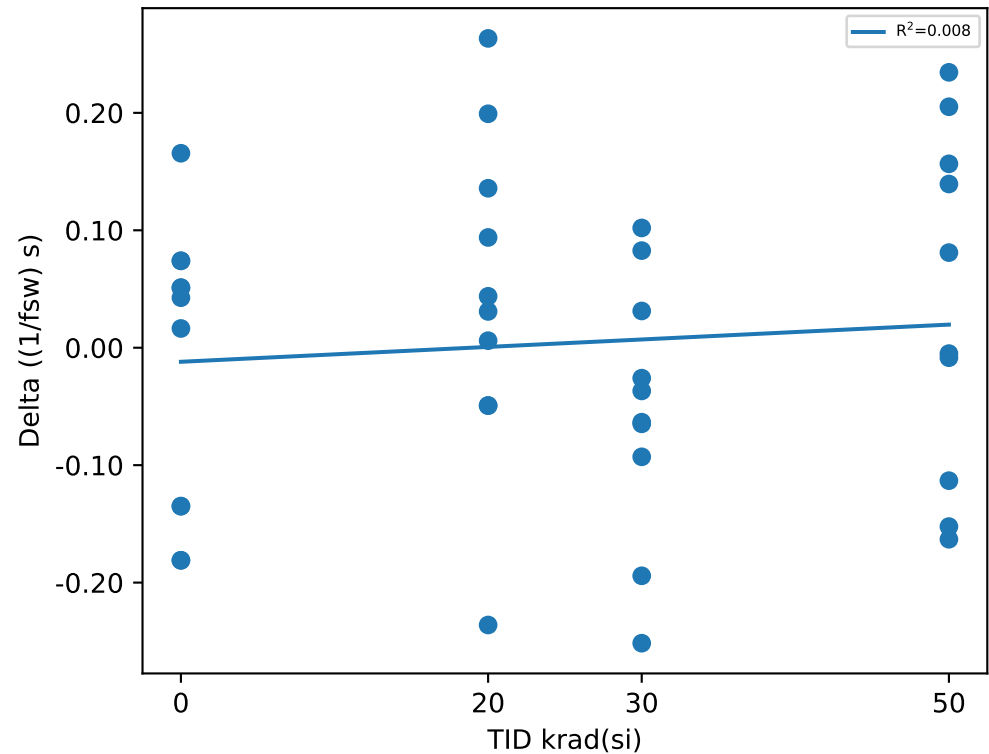
TID vs Result Stats



Test Results (Upper Limit = 5.0 ((1/fsw) s))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.6447	3.6611	0.0164
516	0	CORRELATION	3.4559	3.4985	0.0426
721	0	CORRELATION	3.5057	3.6713	0.1656
723	0	CORRELATION	3.5646	3.3836	-0.181
729	0	CORRELATION	3.5768	3.4419	-0.1349
990	20	Unbiased	3.6664	3.6172	-0.0492
991	20	Unbiased	3.4192	3.6826	0.2634
992	20	Unbiased	3.3773	3.3833	0.006
993	20	Unbiased	3.5969	3.6278	0.0309
994	20	Unbiased	3.7052	3.4691	-0.2361
995	20	Biased	3.5971	3.5478	-0.0493
996	20	Biased	3.4244	3.5602	0.1358
997	20	Biased	3.5295	3.7287	0.1992
998	20	Biased	3.4813	3.5251	0.0438
999	20	Biased	3.4889	3.5828	0.0939
1020	30	Unbiased	3.645	3.3934	-0.2516
1021	30	Unbiased	3.3104	3.4124	0.102
1022	30	Unbiased	3.6485	3.4543	-0.1942
1023	30	Unbiased	3.4845	3.5158	0.0313
1024	30	Unbiased	3.5499	3.4851	-0.0648
1025	30	Biased	3.5193	3.4264	-0.0929
1026	30	Biased	3.6216	3.5957	-0.0259
1027	30	Biased	3.5133	3.4765	-0.0368
1028	30	Biased	3.5209	3.6036	0.0827
1029	30	Biased	3.5176	3.4542	-0.0634
1030	50	Unbiased	3.4088	3.6433	0.2345
1031	50	Unbiased	3.5655	3.557	-0.0085
1032	50	Unbiased	3.5361	3.5311	-0.005
1033	50	Unbiased	3.4026	3.542	0.1394
1034	50	Unbiased	3.4107	3.6159	0.2052
1035	50	Biased-84Hr-Anneal	3.6656	3.5133	-0.1523
1036	50	Biased-84Hr-Anneal	3.6609	3.4978	-0.1631
1037	50	Biased-84Hr-Anneal	3.5334	3.69	0.1566
1038	50	Biased-84Hr-Anneal	3.567	3.4538	-0.1132
1039	50	Biased-84Hr-Anneal	3.376	3.457	0.081

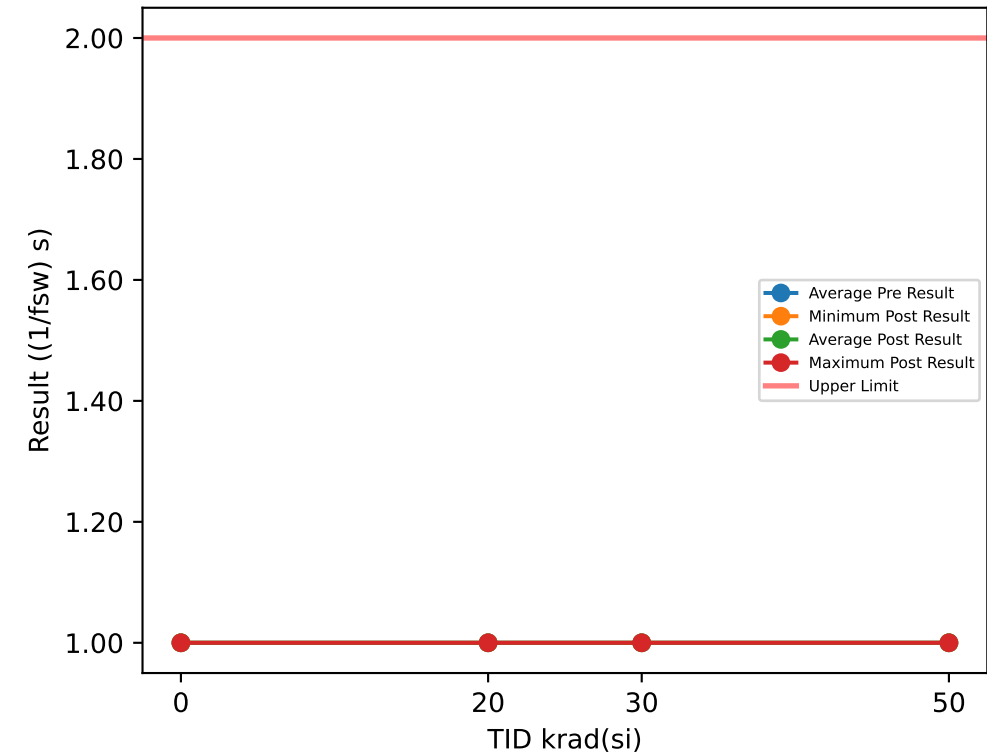
TID vs Post - Pre Exposure Delta



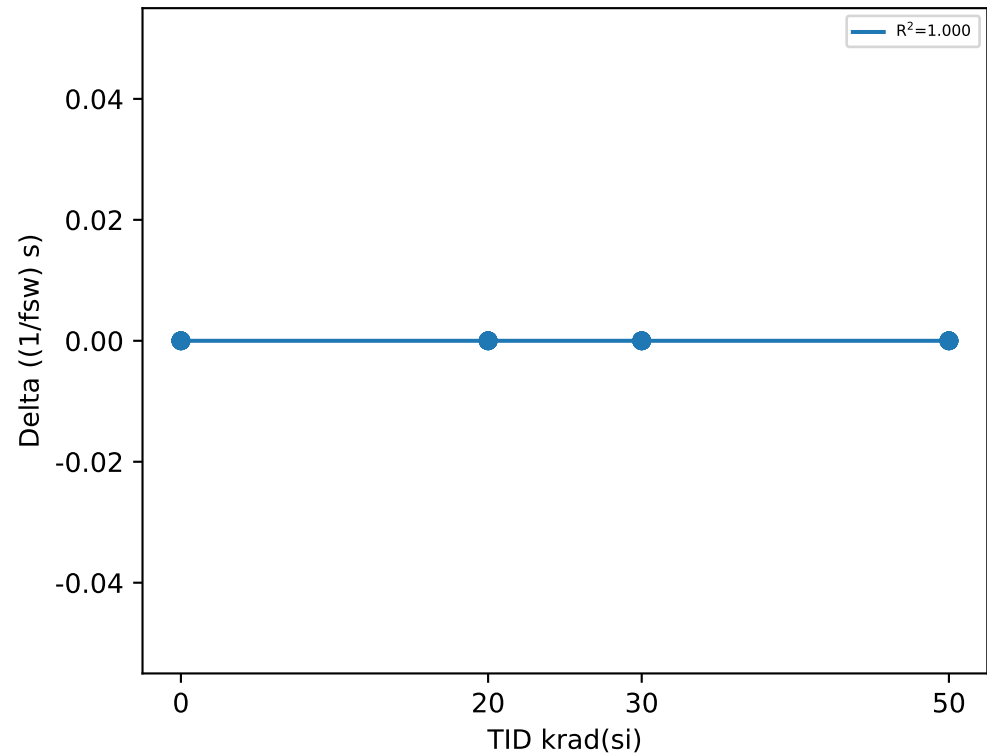
Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4559	3.5495	3.6447	0.071965	3.3836	3.5313	3.6713	0.12974	-0.181	-0.01826	0.1656	0.14036
20	3.3773	3.5286	3.7052	0.11008	3.3833	3.5725	3.7287	0.10065	-0.2361	0.04384	0.2634	0.14166
30	3.3104	3.5331	3.6485	0.098253	3.3934	3.4817	3.6036	0.071664	-0.2516	-0.05136	0.102	0.11142
50	3.376	3.5127	3.6656	0.10753	3.4538	3.5501	3.69	0.07824	-0.1631	0.03746	0.2345	0.14768

TID vs Result Stats



TID vs Post - Pre Exposure Delta

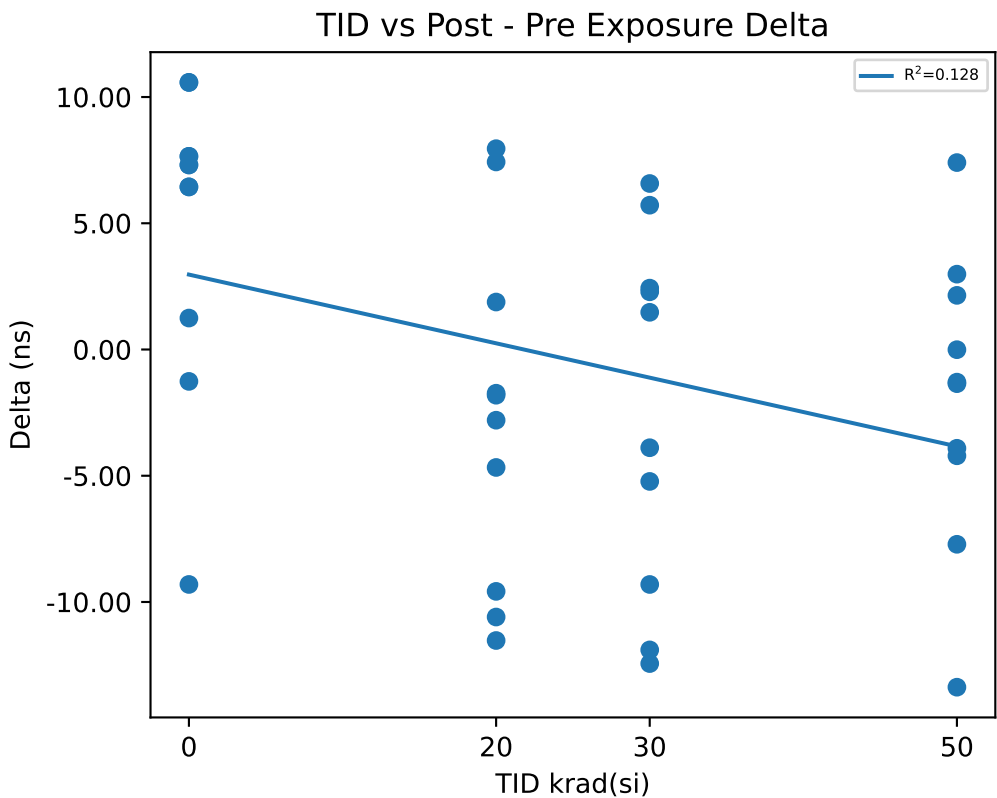
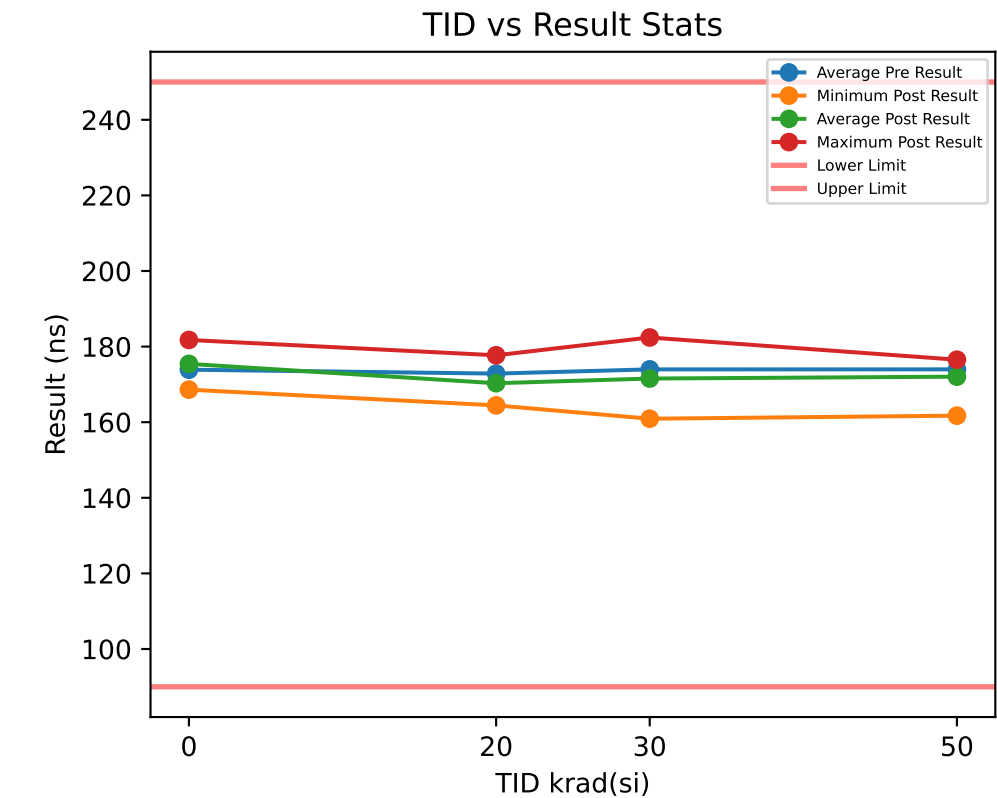


Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1	1	0
516	0	CORRELATION	1	1	0
721	0	CORRELATION	1	1	0
723	0	CORRELATION	1	1	0
729	0	CORRELATION	1	1	0
990	20	Unbiased	1	1	0
991	20	Unbiased	1	1	0
992	20	Unbiased	1	1	0
993	20	Unbiased	1	1	0
994	20	Unbiased	1	1	0
995	20	Biased	1	1	0
996	20	Biased	1	1	0
997	20	Biased	1	1	0
998	20	Biased	1	1	0
999	20	Biased	1	1	0
1020	30	Unbiased	1	1	0
1021	30	Unbiased	1	1	0
1022	30	Unbiased	1	1	0
1023	30	Unbiased	1	1	0
1024	30	Unbiased	1	1	0
1025	30	Biased	1	1	0
1026	30	Biased	1	1	0
1027	30	Biased	1	1	0
1028	30	Biased	1	1	0
1029	30	Biased	1	1	0
1030	50	Unbiased	1	1	0
1031	50	Unbiased	1	1	0
1032	50	Unbiased	1	1	0
1033	50	Unbiased	1	1	0
1034	50	Unbiased	1	1	0
1035	50	Biased-84Hr-Anneal	1	1	0
1036	50	Biased-84Hr-Anneal	1	1	0
1037	50	Biased-84Hr-Anneal	1	1	0
1038	50	Biased-84Hr-Anneal	1	1	0
1039	50	Biased-84Hr-Anneal	1	1	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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	1	1	0	1	1	1	0	0	0	0	0
20	1	1	1	0	1	1	1	0	0	0	0	0
30	1	1	1	0	1	1	1	0	0	0	0	0
50	1	1	1	0	1	1	1	0	0	0	0	0



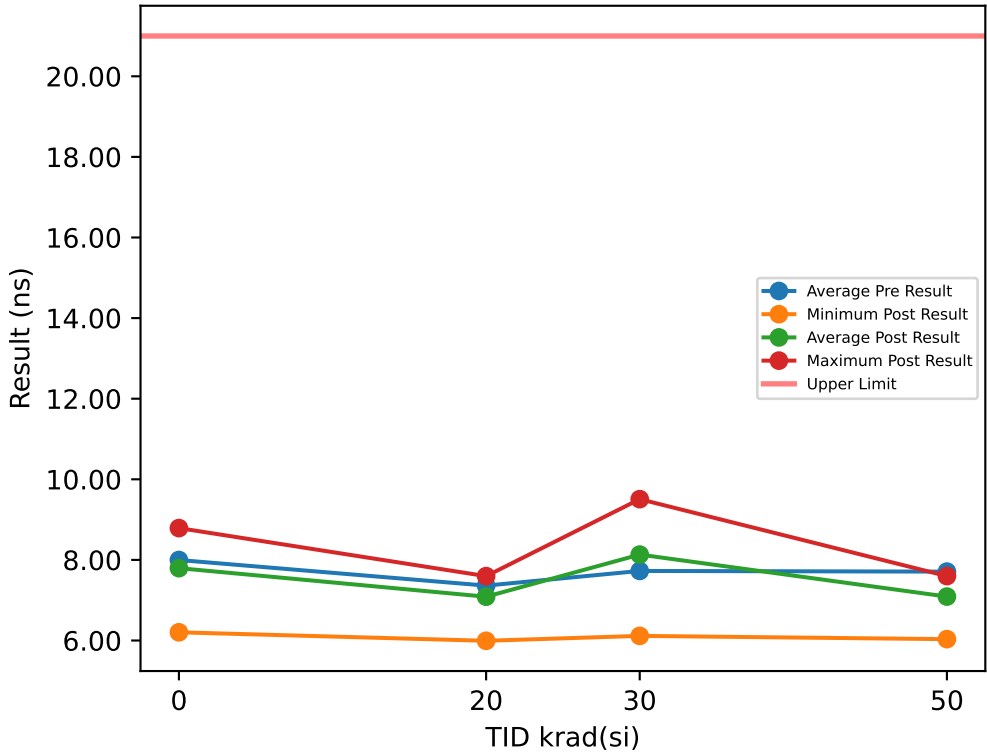
Test Results (Lower Limit = 90.0, Upper Limit = 250.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	180.51	181.76	1.2461
516	0	CORRELATION	175.82	174.56	-1.2629
721	0	CORRELATION	177.92	168.61	-9.3054
723	0	CORRELATION	163.04	173.62	10.579
729	0	CORRELATION	172.17	178.61	6.4403
990	20	Unbiased	166.18	164.45	-1.7313
991	20	Unbiased	169.42	164.75	-4.6717
992	20	Unbiased	170.42	172.3	1.8806
993	20	Unbiased	177.95	168.37	-9.5797
994	20	Unbiased	165.83	173.26	7.4287
995	20	Biased	179.51	177.7	-1.8106
996	20	Biased	175.72	165.13	-10.596
997	20	Biased	180.28	177.48	-2.8003
998	20	Biased	165.47	173.42	7.9542
999	20	Biased	177.78	166.25	-11.526
1020	30	Unbiased	172.32	178.04	5.7159
1021	30	Unbiased	183.11	173.81	-9.3063
1022	30	Unbiased	178.27	173.04	-5.2251
1023	30	Unbiased	176.51	164.07	-12.439
1024	30	Unbiased	165.44	172.02	6.575
1025	30	Biased	172.82	160.92	-11.898
1026	30	Biased	179.98	182.41	2.4308
1027	30	Biased	164.74	166.22	1.4737
1028	30	Biased	178.6	174.71	-3.8904
1029	30	Biased	167.96	170.24	2.2853
1030	50	Unbiased	173.09	168.89	-4.2092
1031	50	Unbiased	175.39	174.09	-1.2926
1032	50	Unbiased	175.11	161.73	-13.375
1033	50	Unbiased	168.31	175.72	7.4039
1034	50	Unbiased	178.18	174.27	-3.9123
1035	50	Biased-84Hr-Anneal	167.99	167.99	-0.007
1036	50	Biased-84Hr-Anneal	177.58	176.22	-1.3532
1037	50	Biased-84Hr-Anneal	168.19	170.33	2.1445
1038	50	Biased-84Hr-Anneal	173.55	176.54	2.9841
1039	50	Biased-84Hr-Anneal	182.37	174.65	-7.7151

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	163.04	173.89	180.51	6.7917	168.61	175.43	181.76	5.0182	-9.3054	1.5395	10.579	7.6041
20	165.47	172.86	180.28	6.0014	164.45	170.31	177.7	5.1715	-11.526	-2.5452	7.9542	6.9125
30	164.74	173.97	183.11	6.3608	160.92	171.55	182.41	6.4695	-12.439	-2.4278	6.575	7.1149
50	167.99	173.98	182.37	4.7917	161.73	172.04	176.54	4.7472	-13.375	-1.9332	7.4039	5.8299

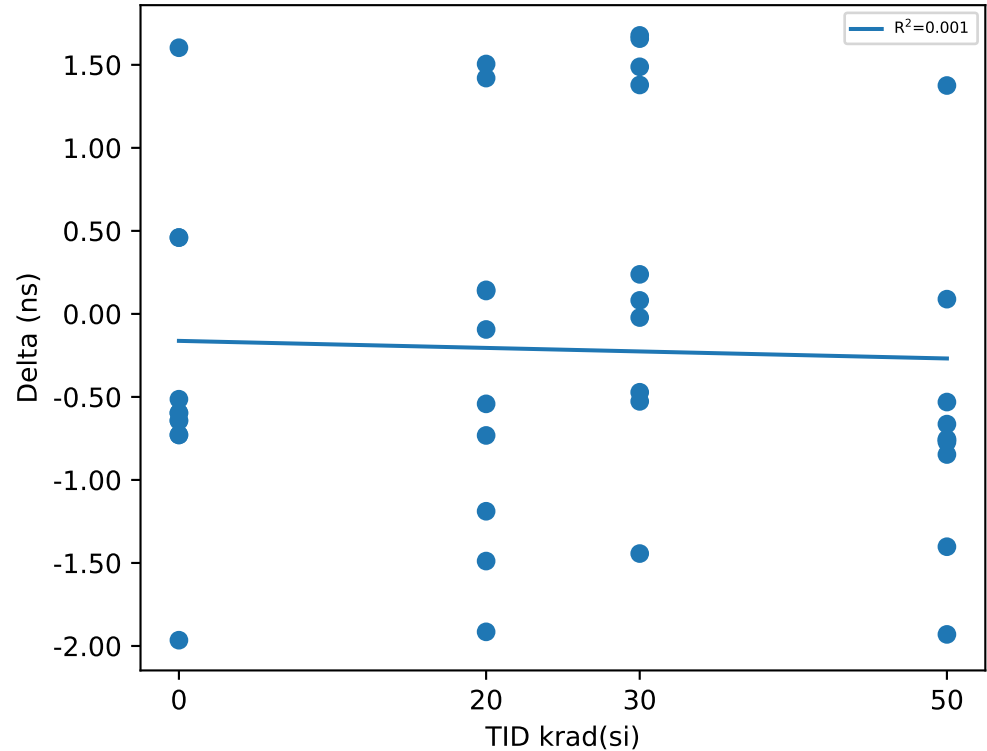
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.9972	7.6002	1.603
516	0	CORRELATION	8.1688	6.2036	-1.9652
721	0	CORRELATION	9.2704	8.7566	-0.5138
723	0	CORRELATION	8.2215	7.5788	-0.6427
729	0	CORRELATION	8.3296	8.7894	0.4598
990	20	Unbiased	7.3286	7.4665	0.1379
991	20	Unbiased	8.139	7.5972	-0.5418
992	20	Unbiased	7.4814	5.9928	-1.4886
993	20	Unbiased	6.0327	7.4529	1.4202
994	20	Unbiased	7.4292	7.574	0.1448
995	20	Biased	8.0525	6.1376	-1.9149
996	20	Biased	7.5617	7.4679	-0.0938
997	20	Biased	6.0919	7.597	1.5051
998	20	Biased	7.3859	6.1973	-1.1886
999	20	Biased	8.1173	7.3853	-0.732
1020	30	Unbiased	8.1288	9.5075	1.3787
1021	30	Unbiased	9.2196	8.7477	-0.4719
1022	30	Unbiased	7.1041	8.7619	1.6578
1023	30	Unbiased	5.9711	7.4592	1.4881
1024	30	Unbiased	7.4348	7.5161	0.0813
1025	30	Biased	7.1229	8.8002	1.6773
1026	30	Biased	9.2588	9.4969	0.2381
1027	30	Biased	7.3781	7.3561	-0.022
1028	30	Biased	8.0866	7.5597	-0.5269
1029	30	Biased	7.5581	6.1147	-1.4434
1030	50	Unbiased	8.1212	7.5903	-0.5309
1031	50	Unbiased	7.5136	6.1114	-1.4022
1032	50	Unbiased	6.0446	7.4201	1.3755
1033	50	Unbiased	7.4293	7.5181	0.0888
1034	50	Unbiased	8.1115	6.1812	-1.9303
1035	50	Biased-84Hr-Anneal	8.1474	7.4836	-0.6638
1036	50	Biased-84Hr-Anneal	8.3698	7.5982	-0.7716
1037	50	Biased-84Hr-Anneal	8.1552	7.4013	-0.7539
1038	50	Biased-84Hr-Anneal	8.3195	7.56	-0.7595
1039	50	Biased-84Hr-Anneal	6.8806	6.0337	-0.8469

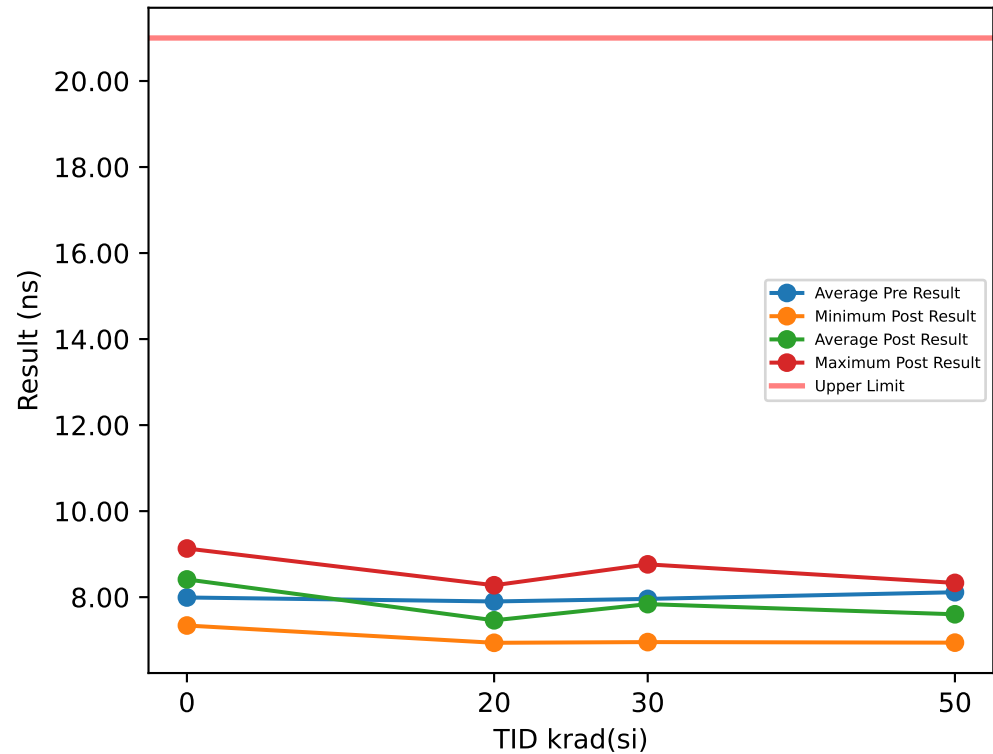
TID vs Post - Pre Exposure Delta



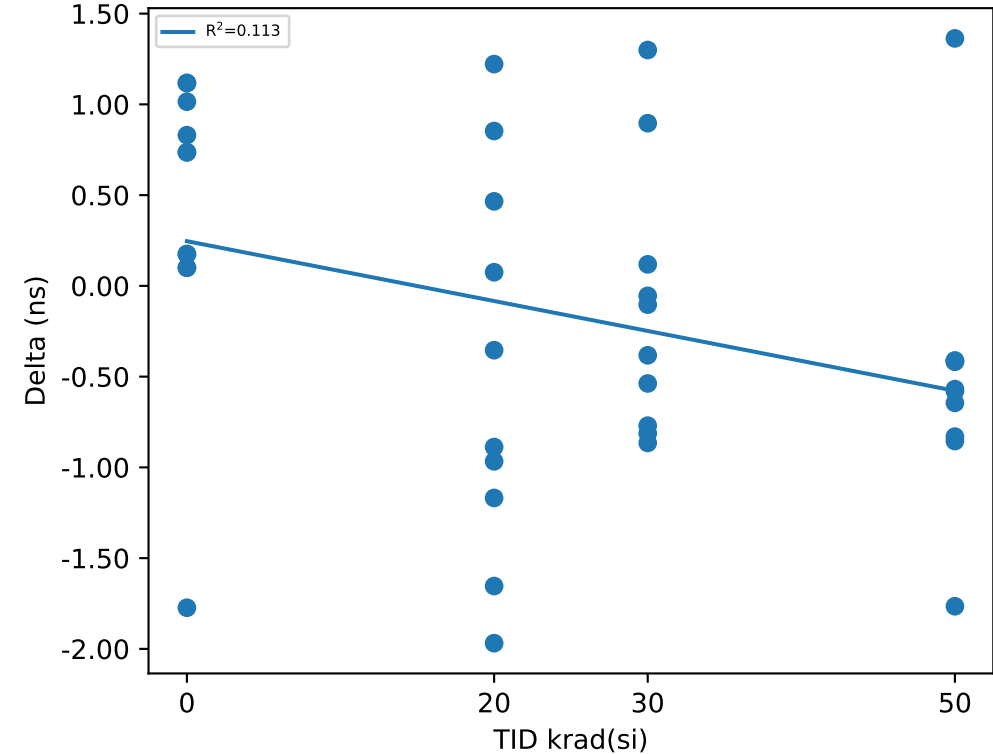
Test Statistics (ns)

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	5.9972	7.9975	9.2704	1.2053	6.2036	7.7857	8.7894	1.0642	-1.9652	-0.21178	1.603	1.3319
20	6.0327	7.362	8.139	0.75215	5.9928	7.0869	7.5972	0.67985	-1.9149	-0.27517	1.5051	1.1401
30	5.9711	7.7263	9.2588	0.99648	6.1147	8.132	9.5075	1.0959	-1.4434	0.40571	1.6773	1.0893
50	6.0446	7.7093	8.3698	0.75318	6.0337	7.0898	7.5982	0.68092	-1.9303	-0.61948	1.3755	0.8778

TID vs Result Stats



TID vs Post - Pre Exposure Delta



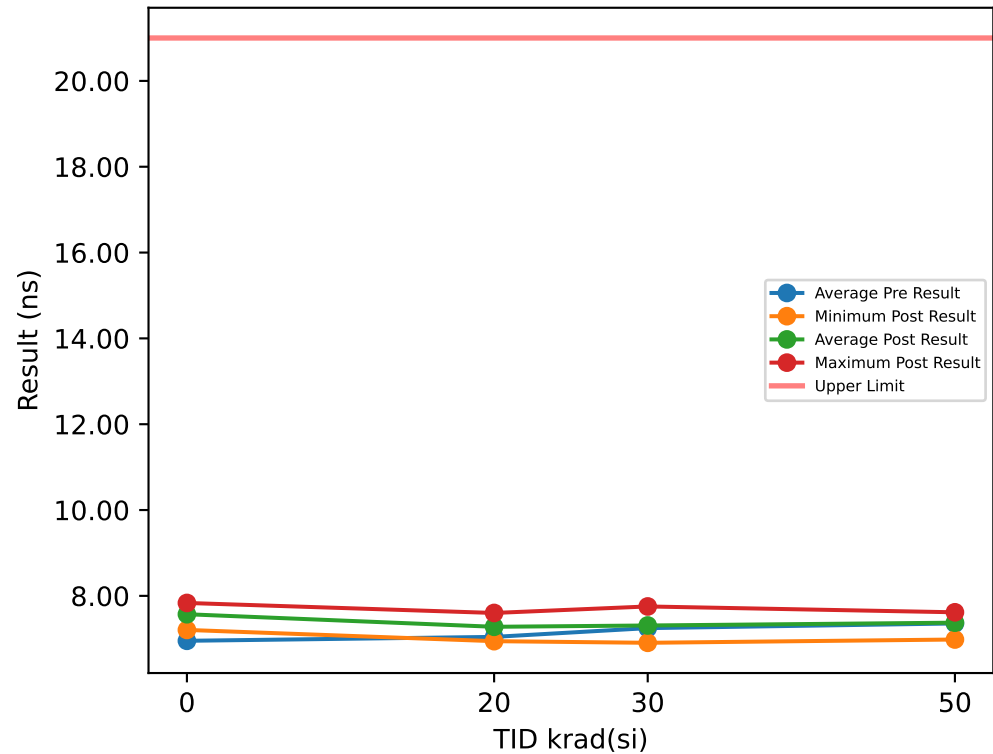
Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.2805	8.2953	1.0148
516	0	CORRELATION	9.1142	7.3409	-1.7733
721	0	CORRELATION	7.4855	8.3159	0.8304
723	0	CORRELATION	8.0136	9.1314	1.1178
729	0	CORRELATION	8.0673	8.8034	0.7361
990	20	Unbiased	6.9779	7.053	0.0751
991	20	Unbiased	9.0856	8.1189	-0.9667
992	20	Unbiased	8.1676	7.2796	-0.888
993	20	Unbiased	7.3133	6.959	-0.3543
994	20	Unbiased	6.9267	8.1486	1.2219
995	20	Biased	9.0222	7.3684	-1.6538
996	20	Biased	8.1074	6.9389	-1.1685
997	20	Biased	7.4233	8.2765	0.8532
998	20	Biased	6.9851	7.4508	0.4657
999	20	Biased	8.993	7.0243	-1.9687
1020	30	Unbiased	8.467	7.6018	-0.8652
1021	30	Unbiased	7.4885	8.3847	0.8962
1022	30	Unbiased	8.866	8.7627	-0.1033
1023	30	Unbiased	7.3378	6.9554	-0.3824
1024	30	Unbiased	6.9026	8.2021	1.2995
1025	30	Biased	8.8477	8.31	-0.5377
1026	30	Biased	7.6364	7.5816	-0.0548
1027	30	Biased	6.9145	7.0331	0.1186
1028	30	Biased	8.9811	8.211	-0.7701
1029	30	Biased	8.1517	7.3395	-0.8122
1030	50	Unbiased	9.0872	8.2323	-0.8549
1031	50	Unbiased	8.1768	7.3463	-0.8305
1032	50	Unbiased	7.3534	6.9425	-0.4109
1033	50	Unbiased	6.968	8.3315	1.3635
1034	50	Unbiased	9.116	7.3509	-1.7651
1035	50	Biased-84Hr-Anneal	7.4798	7.0645	-0.4153
1036	50	Biased-84Hr-Anneal	8.7666	8.1219	-0.6447
1037	50	Biased-84Hr-Anneal	7.4723	7.0541	-0.4182
1038	50	Biased-84Hr-Anneal	8.7681	8.1885	-0.5796
1039	50	Biased-84Hr-Anneal	7.9541	7.3855	-0.5686

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	7.2805	7.9922	9.1142	0.71208	7.3409	8.3774	9.1314	0.67728	-1.7733	0.38516	1.1178	1.2159
20	6.9267	7.9002	9.0856	0.8932	6.9389	7.4618	8.2765	0.52641	-1.9687	-0.43841	1.2219	1.0722
30	6.9026	7.9593	8.9811	0.80764	6.9554	7.8382	8.7627	0.61872	-0.8652	-0.12114	1.2995	0.73102
50	6.968	8.1142	9.116	0.78459	6.9425	7.6018	8.3315	0.55207	-1.7651	-0.51243	1.3635	0.77176

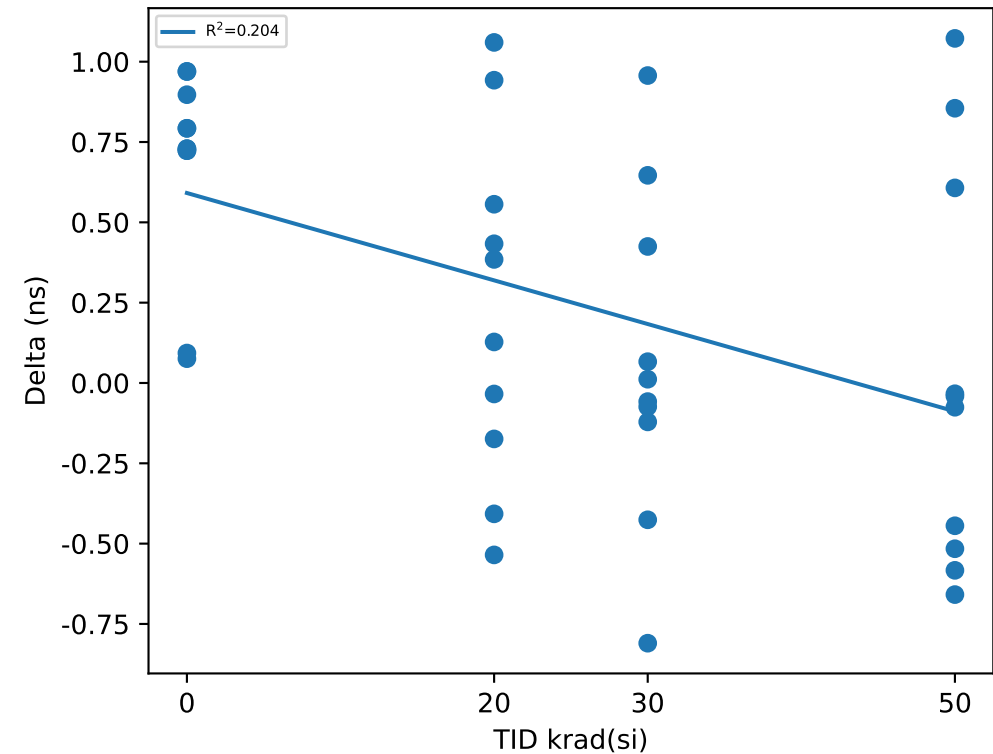
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.4651	7.5583	0.0932
516	0	CORRELATION	6.4914	7.3887	0.8973
721	0	CORRELATION	7.1306	7.2063	0.0757
723	0	CORRELATION	6.8121	7.6048	0.7927
729	0	CORRELATION	6.8651	7.8347	0.9696
990	20	Unbiased	6.9784	6.9442	-0.0342
991	20	Unbiased	6.4892	7.5492	1.06
992	20	Unbiased	7.5722	7.3981	-0.1741
993	20	Unbiased	7.3762	6.9689	-0.4073
994	20	Unbiased	6.9257	7.482	0.5563
995	20	Biased	6.5113	7.4537	0.9424
996	20	Biased	7.527	6.9919	-0.5351
997	20	Biased	7.4738	7.6015	0.1277
998	20	Biased	6.9957	7.429	0.4333
999	20	Biased	6.5901	6.9747	0.3846
1020	30	Unbiased	7.9757	7.1658	-0.8099
1021	30	Unbiased	7.1619	7.2282	0.0663
1022	30	Unbiased	7.3283	7.7532	0.4249
1023	30	Unbiased	7.4457	7.0199	-0.4258
1024	30	Unbiased	6.9367	7.583	0.6463
1025	30	Biased	7.3344	7.2133	-0.1211
1026	30	Biased	7.1902	7.2019	0.0117
1027	30	Biased	6.9802	6.9063	-0.0739
1028	30	Biased	6.6039	7.5608	0.9569
1029	30	Biased	7.5231	7.4652	-0.0579
1030	50	Unbiased	6.5352	7.6077	1.0725
1031	50	Unbiased	7.5617	7.5282	-0.0335
1032	50	Unbiased	7.4436	6.9992	-0.4444
1033	50	Unbiased	7.01	7.6172	0.6072
1034	50	Unbiased	6.5395	7.3946	0.8551
1035	50	Biased-84Hr-Anneal	7.5658	6.9827	-0.5831
1036	50	Biased-84Hr-Anneal	7.6152	7.5742	-0.041
1037	50	Biased-84Hr-Anneal	7.6159	7.1	-0.5159
1038	50	Biased-84Hr-Anneal	7.5931	7.5176	-0.0755
1039	50	Biased-84Hr-Anneal	8.0898	7.4312	-0.6586

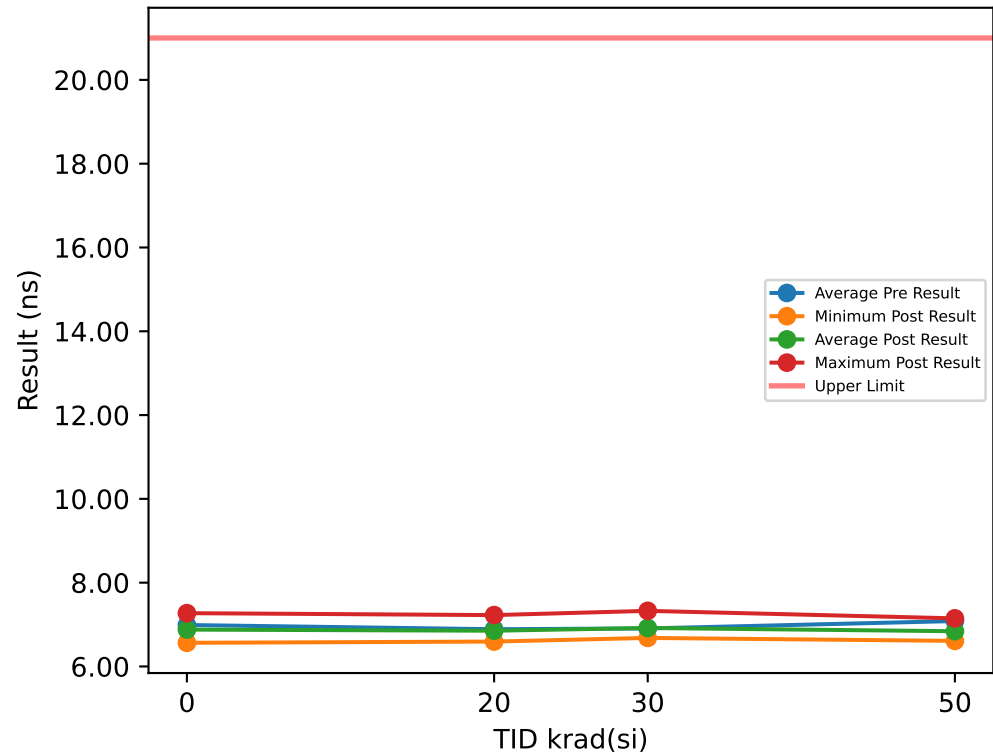
TID vs Post - Pre Exposure Delta



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	6.4914	6.9529	7.4651	0.36553	7.2063	7.5186	7.8347	0.23629	0.0757	0.5657	0.9696	0.44384
20	6.4892	7.044	7.5722	0.425	6.9442	7.2793	7.6015	0.27258	-0.5351	0.23536	1.06	0.53779
30	6.6039	7.248	7.9757	0.37305	6.9063	7.3098	7.7532	0.26948	-0.8099	0.06175	0.9569	0.51001
50	6.5352	7.357	8.0898	0.50371	6.9827	7.3753	7.6172	0.25179	-0.6586	0.01828	1.0725	0.62296

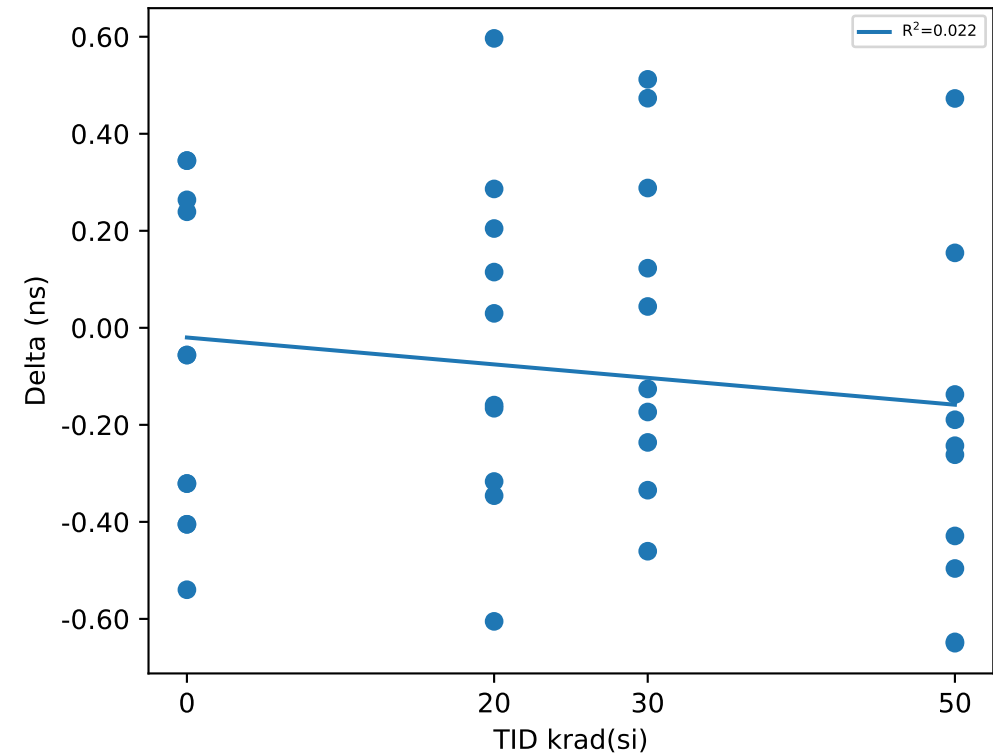
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.1483	6.6084	-0.5399
516	0	CORRELATION	6.9082	7.1474	0.2392
721	0	CORRELATION	7.0083	7.2721	0.2638
723	0	CORRELATION	6.911	7.2557	0.3447
729	0	CORRELATION	6.9698	6.9137	-0.0561
990	20	Unbiased	6.8024	6.8322	0.0298
991	20	Unbiased	6.9557	6.6097	-0.346
992	20	Unbiased	6.6295	7.2261	0.5966
993	20	Unbiased	7.0804	6.7636	-0.3168
994	20	Unbiased	6.7536	6.5943	-0.1593
995	20	Biased	6.968	7.0829	0.1149
996	20	Biased	6.5737	6.7784	0.2047
997	20	Biased	7.2832	6.6781	-0.6051
998	20	Biased	6.8705	7.1568	0.2863
999	20	Biased	6.9734	6.8076	-0.1658
1020	30	Unbiased	7.1734	6.8387	-0.3347
1021	30	Unbiased	7.039	7.3272	0.2882
1022	30	Unbiased	6.7398	6.8627	0.1229
1023	30	Unbiased	7.1874	6.7269	-0.4605
1024	30	Unbiased	6.8072	6.6812	-0.126
1025	30	Biased	6.7562	7.2684	0.5122
1026	30	Biased	7.0218	6.8483	-0.1735
1027	30	Biased	6.7396	6.7836	0.044
1028	30	Biased	6.9447	6.7085	-0.2362
1029	30	Biased	6.6631	7.1364	0.4733
1030	50	Unbiased	6.9182	6.6566	-0.2616
1031	50	Unbiased	6.6081	7.0809	0.4728
1032	50	Unbiased	7.246	6.817	-0.429
1033	50	Unbiased	6.7782	6.6408	-0.1374
1034	50	Unbiased	6.9706	7.1251	0.1545
1035	50	Biased-84Hr-Anneal	7.4878	6.8377	-0.6501
1036	50	Biased-84Hr-Anneal	6.8584	6.6154	-0.243
1037	50	Biased-84Hr-Anneal	7.5264	6.879	-0.6474
1038	50	Biased-84Hr-Anneal	6.7999	6.6104	-0.1895
1039	50	Biased-84Hr-Anneal	7.6445	7.1484	-0.4961

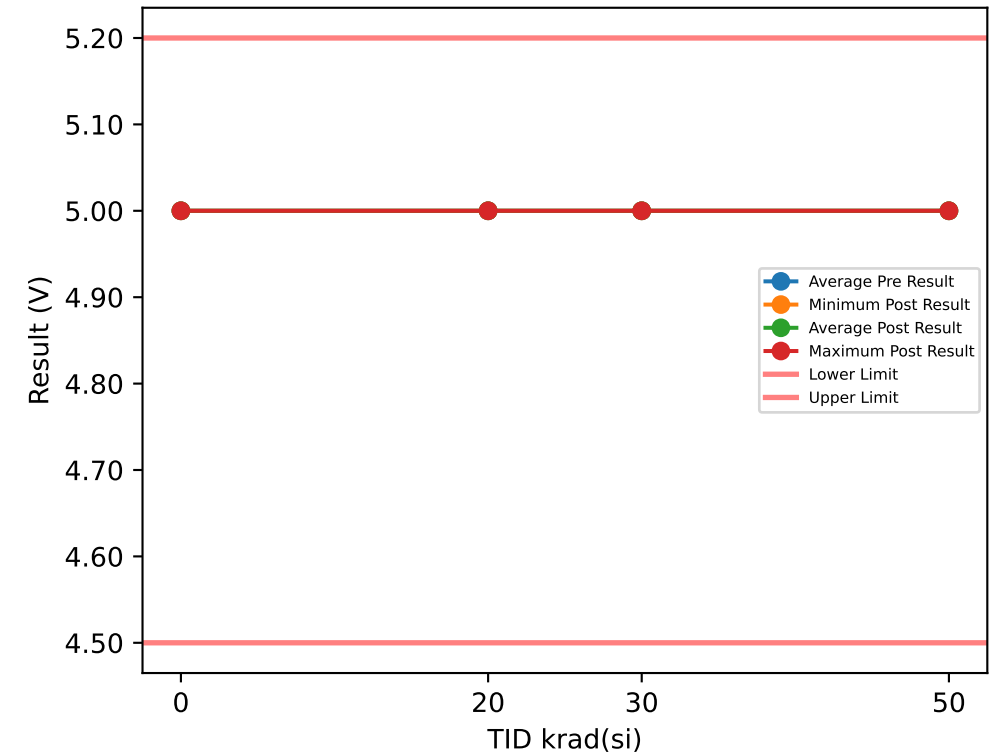
TID vs Post - Pre Exposure Delta



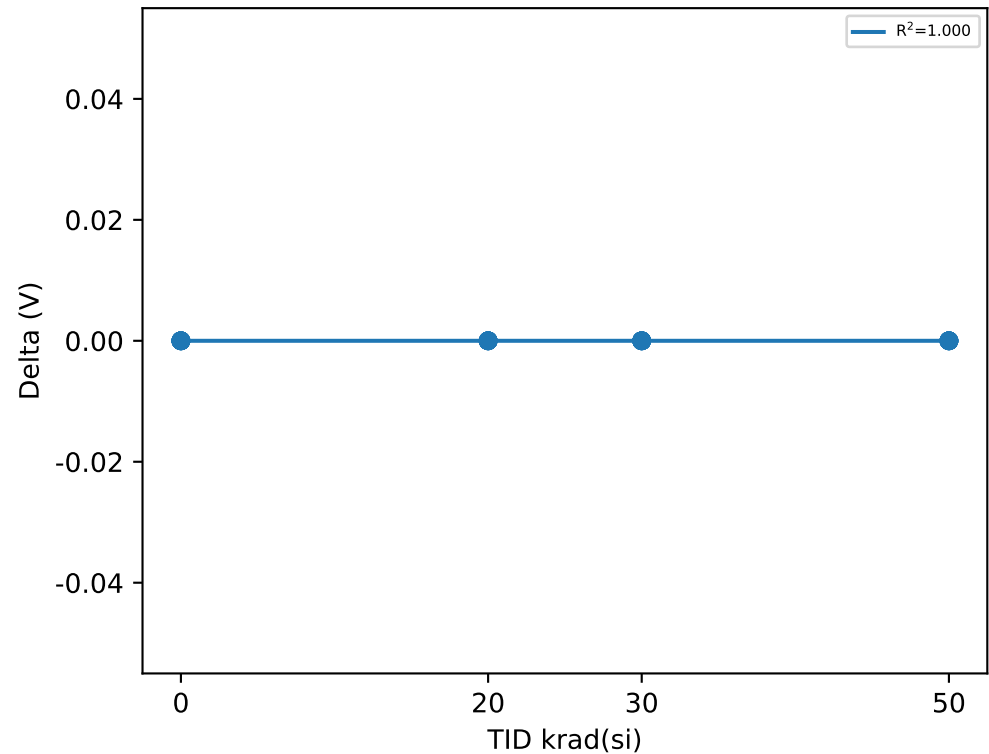
Test Statistics (ns)

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	6.9082	6.9891	7.1483	0.0984	6.6084	7.0395	7.2721	0.28025	-0.5399	0.05034	0.3447	0.36318
20	6.5737	6.889	7.2832	0.21155	6.5943	6.853	7.2261	0.22537	-0.6051	-0.03607	0.5966	0.35276
30	6.6631	6.9072	7.1874	0.19142	6.6812	6.9182	7.3272	0.23727	-0.4605	0.01097	0.5122	0.33518
50	6.6081	7.0838	7.6445	0.3638	6.6104	6.8411	7.1484	0.2142	-0.6501	-0.24268	0.4728	0.35161

TID vs Result Stats



TID vs Post - Pre Exposure Delta



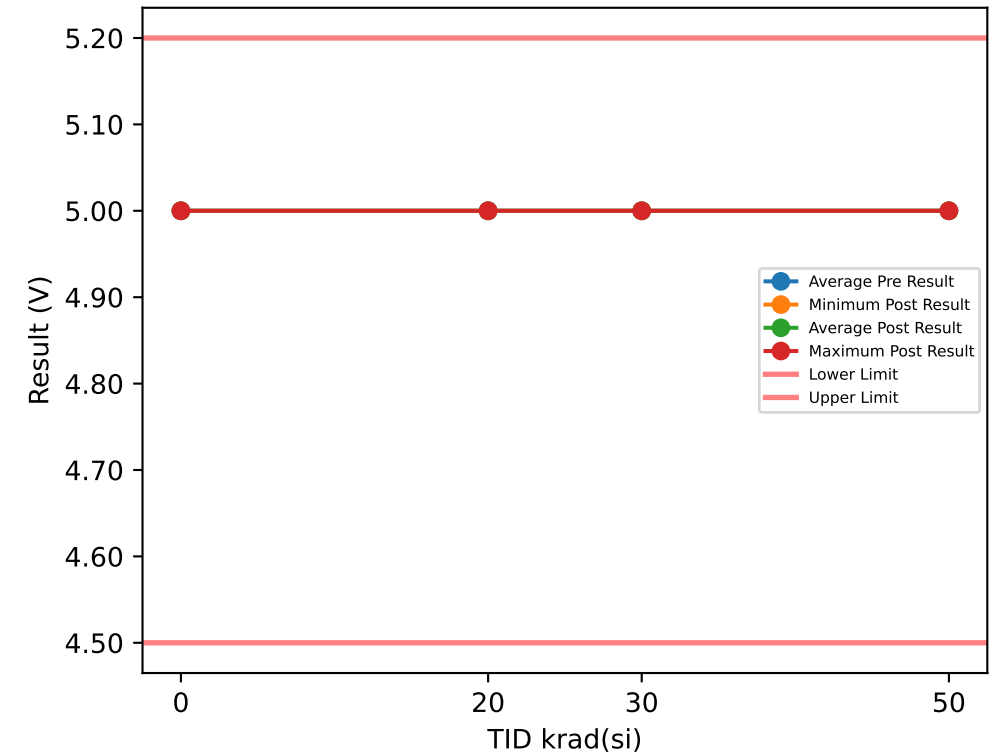
Test Results (Lower Limit = 4.5, Upper Limit = 5.2 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5	5	0
516	0	CORRELATION	5	5	0
721	0	CORRELATION	5	5	0
723	0	CORRELATION	5	5	0
729	0	CORRELATION	5	5	0
990	20	Unbiased	5	5	0
991	20	Unbiased	5	5	0
992	20	Unbiased	5	5	0
993	20	Unbiased	5	5	0
994	20	Unbiased	5	5	0
995	20	Biased	5	5	0
996	20	Biased	5	5	0
997	20	Biased	5	5	0
998	20	Biased	5	5	0
999	20	Biased	5	5	0
1020	30	Unbiased	5	5	0
1021	30	Unbiased	5	5	0
1022	30	Unbiased	5	5	0
1023	30	Unbiased	5	5	0
1024	30	Unbiased	5	5	0
1025	30	Biased	5	5	0
1026	30	Biased	5	5	0
1027	30	Biased	5	5	0
1028	30	Biased	5	5	0
1029	30	Biased	5	5	0
1030	50	Unbiased	5	5	0
1031	50	Unbiased	5	5	0
1032	50	Unbiased	5	5	0
1033	50	Unbiased	5	5	0
1034	50	Unbiased	5	5	0
1035	50	Biased-84Hr-Anneal	5	5	0
1036	50	Biased-84Hr-Anneal	5	5	0
1037	50	Biased-84Hr-Anneal	5	5	0
1038	50	Biased-84Hr-Anneal	5	5	0
1039	50	Biased-84Hr-Anneal	5	5	0

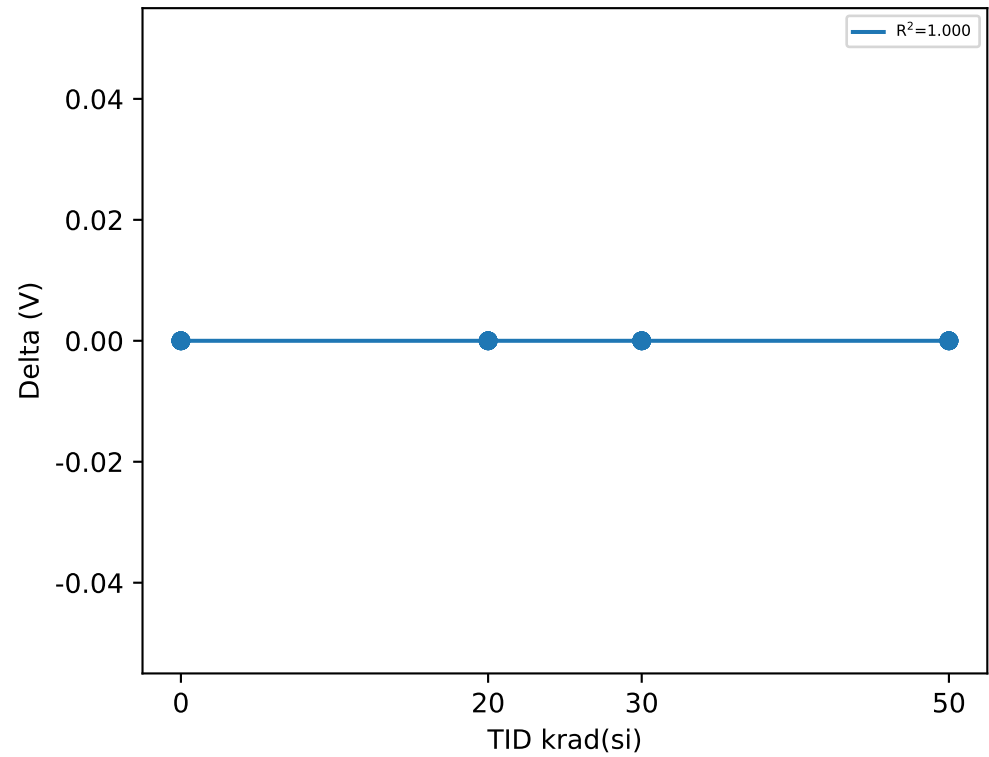
Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
20	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



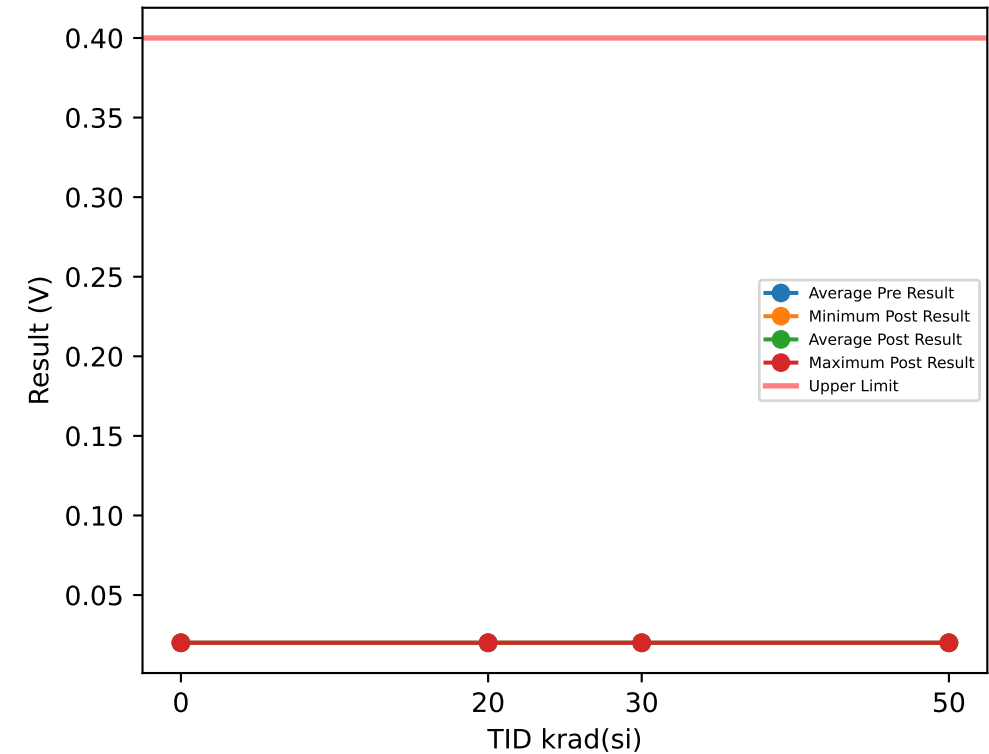
Test Results (Lower Limit = 4.5, Upper Limit = 5.2 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5	5	0
516	0	CORRELATION	5	5	0
721	0	CORRELATION	5	5	0
723	0	CORRELATION	5	5	0
729	0	CORRELATION	5	5	0
990	20	Unbiased	5	5	0
991	20	Unbiased	5	5	0
992	20	Unbiased	5	5	0
993	20	Unbiased	5	5	0
994	20	Unbiased	5	5	0
995	20	Biased	5	5	0
996	20	Biased	5	5	0
997	20	Biased	5	5	0
998	20	Biased	5	5	0
999	20	Biased	5	5	0
1020	30	Unbiased	5	5	0
1021	30	Unbiased	5	5	0
1022	30	Unbiased	5	5	0
1023	30	Unbiased	5	5	0
1024	30	Unbiased	5	5	0
1025	30	Biased	5	5	0
1026	30	Biased	5	5	0
1027	30	Biased	5	5	0
1028	30	Biased	5	5	0
1029	30	Biased	5	5	0
1030	50	Unbiased	5	5	0
1031	50	Unbiased	5	5	0
1032	50	Unbiased	5	5	0
1033	50	Unbiased	5	5	0
1034	50	Unbiased	5	5	0
1035	50	Biased-84Hr-Anneal	5	5	0
1036	50	Biased-84Hr-Anneal	5	5	0
1037	50	Biased-84Hr-Anneal	5	5	0
1038	50	Biased-84Hr-Anneal	5	5	0
1039	50	Biased-84Hr-Anneal	5	5	0

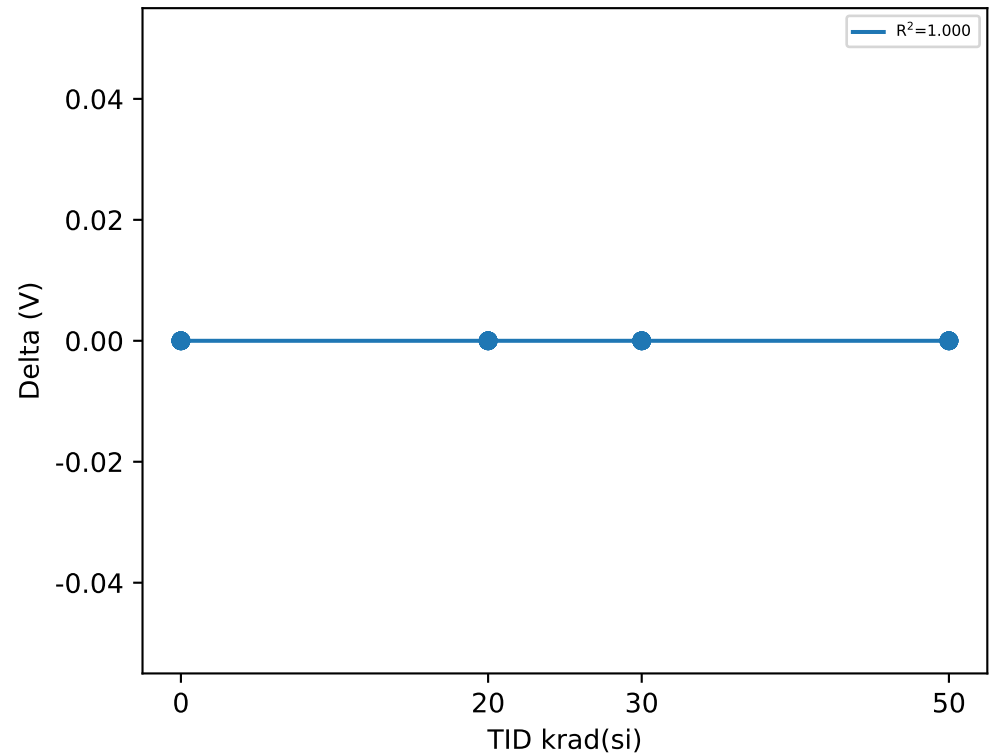
Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
20	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



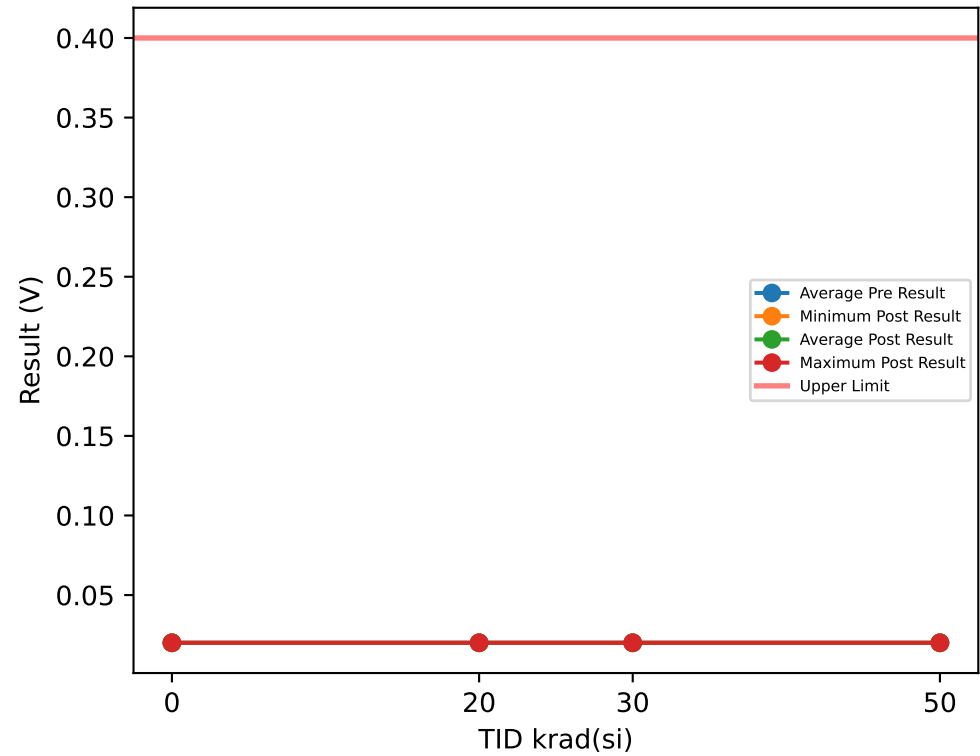
Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.02	0.02	0
516	0	CORRELATION	0.02	0.02	0
721	0	CORRELATION	0.02	0.02	0
723	0	CORRELATION	0.02	0.02	0
729	0	CORRELATION	0.02	0.02	0
990	20	Unbiased	0.02	0.02	0
991	20	Unbiased	0.02	0.02	0
992	20	Unbiased	0.02	0.02	0
993	20	Unbiased	0.02	0.02	0
994	20	Unbiased	0.02	0.02	0
995	20	Biased	0.02	0.02	0
996	20	Biased	0.02	0.02	0
997	20	Biased	0.02	0.02	0
998	20	Biased	0.02	0.02	0
999	20	Biased	0.02	0.02	0
1020	30	Unbiased	0.02	0.02	0
1021	30	Unbiased	0.02	0.02	0
1022	30	Unbiased	0.02	0.02	0
1023	30	Unbiased	0.02	0.02	0
1024	30	Unbiased	0.02	0.02	0
1025	30	Biased	0.02	0.02	0
1026	30	Biased	0.02	0.02	0
1027	30	Biased	0.02	0.02	0
1028	30	Biased	0.02	0.02	0
1029	30	Biased	0.02	0.02	0
1030	50	Unbiased	0.02	0.02	0
1031	50	Unbiased	0.02	0.02	0
1032	50	Unbiased	0.02	0.02	0
1033	50	Unbiased	0.02	0.02	0
1034	50	Unbiased	0.02	0.02	0
1035	50	Biased-84Hr-Anneal	0.02	0.02	0
1036	50	Biased-84Hr-Anneal	0.02	0.02	0
1037	50	Biased-84Hr-Anneal	0.02	0.02	0
1038	50	Biased-84Hr-Anneal	0.02	0.02	0
1039	50	Biased-84Hr-Anneal	0.02	0.02	0

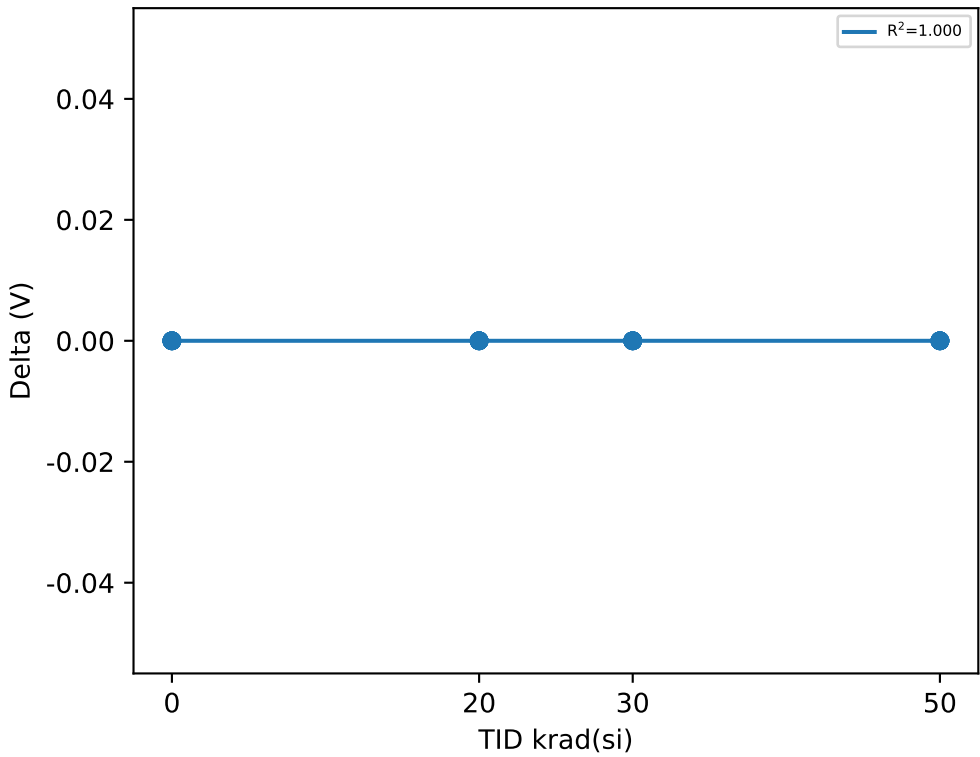
Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
20	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
30	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
50	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta

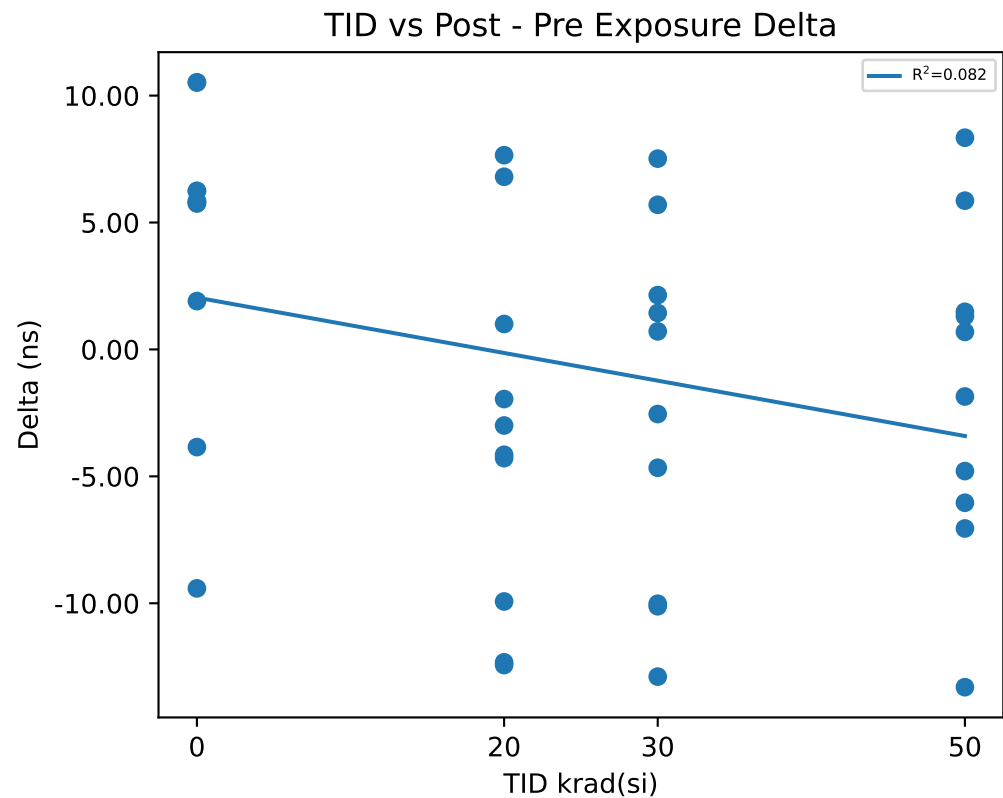
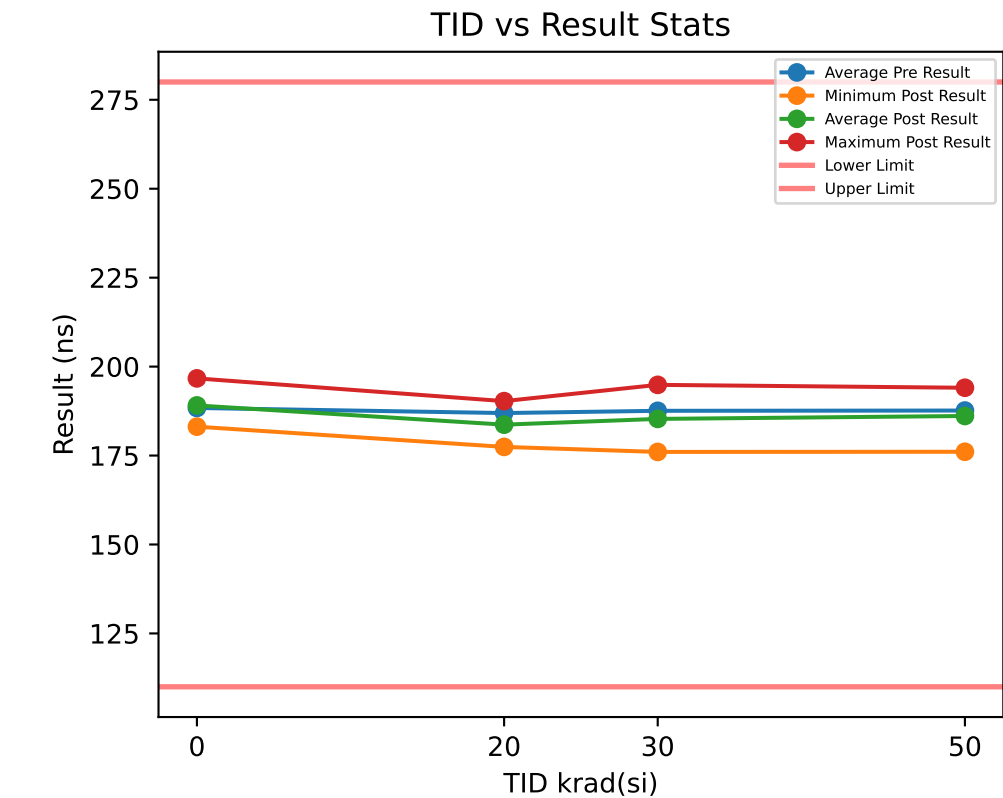


Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.02	0.02	0
516	0	CORRELATION	0.02	0.02	0
721	0	CORRELATION	0.02	0.02	0
723	0	CORRELATION	0.02	0.02	0
729	0	CORRELATION	0.02	0.02	0
990	20	Unbiased	0.02	0.02	0
991	20	Unbiased	0.02	0.02	0
992	20	Unbiased	0.02	0.02	0
993	20	Unbiased	0.02	0.02	0
994	20	Unbiased	0.02	0.02	0
995	20	Biased	0.02	0.02	0
996	20	Biased	0.02	0.02	0
997	20	Biased	0.02	0.02	0
998	20	Biased	0.02	0.02	0
999	20	Biased	0.02	0.02	0
1020	30	Unbiased	0.02	0.02	0
1021	30	Unbiased	0.02	0.02	0
1022	30	Unbiased	0.02	0.02	0
1023	30	Unbiased	0.02	0.02	0
1024	30	Unbiased	0.02	0.02	0
1025	30	Biased	0.02	0.02	0
1026	30	Biased	0.02	0.02	0
1027	30	Biased	0.02	0.02	0
1028	30	Biased	0.02	0.02	0
1029	30	Biased	0.02	0.02	0
1030	50	Unbiased	0.02	0.02	0
1031	50	Unbiased	0.02	0.02	0
1032	50	Unbiased	0.02	0.02	0
1033	50	Unbiased	0.02	0.02	0
1034	50	Unbiased	0.02	0.02	0
1035	50	Biased-84Hr-Anneal	0.02	0.02	0
1036	50	Biased-84Hr-Anneal	0.02	0.02	0
1037	50	Biased-84Hr-Anneal	0.02	0.02	0
1038	50	Biased-84Hr-Anneal	0.02	0.02	0
1039	50	Biased-84Hr-Anneal	0.02	0.02	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
20	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
30	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
50	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0



Test Results (Lower Limit = 110.0, Upper Limit = 280.0 (ns))

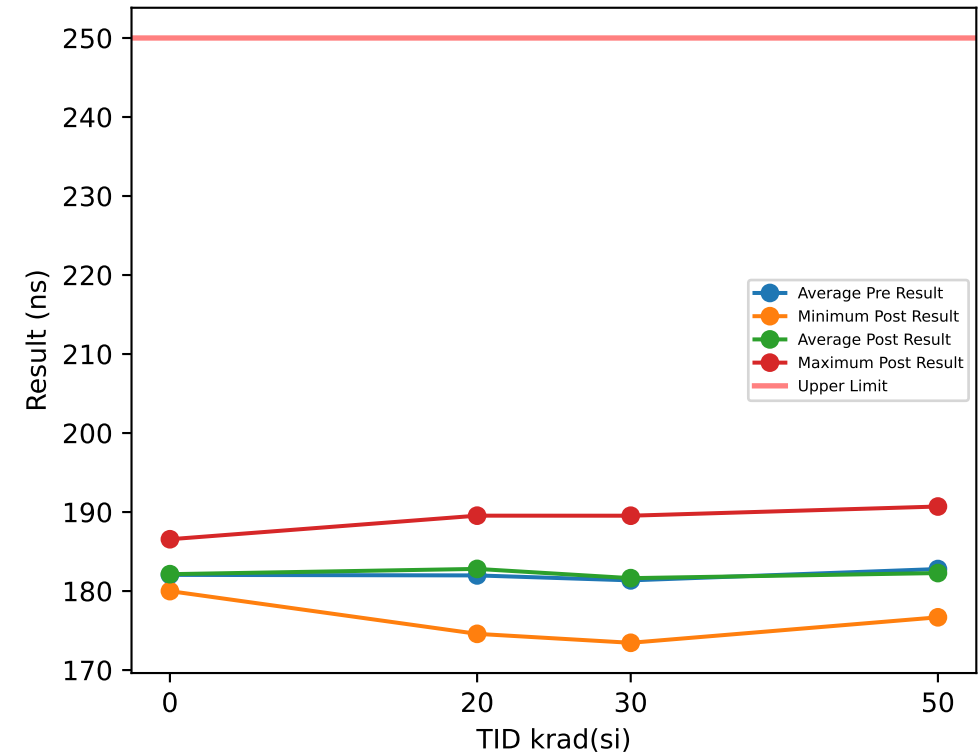
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	194.78	196.69	1.9049
516	0	CORRELATION	190.29	186.45	-3.8469
721	0	CORRELATION	192.53	183.12	-9.4137
723	0	CORRELATION	177.66	188.18	10.52
729	0	CORRELATION	186.6	192.84	6.2432
990	20	Unbiased	179.39	177.43	-1.955
991	20	Unbiased	185.45	181.3	-4.1491
992	20	Unbiased	183.68	184.69	1.0023
993	20	Unbiased	192.03	182.1	-9.9294
994	20	Unbiased	178.68	186.33	7.653
995	20	Biased	192.83	189.84	-2.9967
996	20	Biased	190.94	178.62	-12.326
997	20	Biased	194.58	190.3	-4.2828
998	20	Biased	180.34	187.14	6.8022
999	20	Biased	191.53	179.1	-12.435
1020	30	Unbiased	187.35	194.87	7.5172
1021	30	Unbiased	196.73	186.71	-10.019
1022	30	Unbiased	192.54	187.88	-4.6612
1023	30	Unbiased	188.91	176.02	-12.89
1024	30	Unbiased	179.52	185.22	5.6984
1025	30	Biased	186.73	176.62	-10.118
1026	30	Biased	192.73	194.87	2.1407
1027	30	Biased	178.31	179.02	0.7116
1028	30	Biased	192.08	189.53	-2.5455
1029	30	Biased	180.85	182.28	1.4378
1030	50	Unbiased	186.78	180.74	-6.0401
1031	50	Unbiased	189.29	187.43	-1.8545
1032	50	Unbiased	189.37	176.06	-13.306
1033	50	Unbiased	183.58	189.45	5.8616
1034	50	Unbiased	193.18	188.39	-4.7923
1035	50	Biased-84Hr-Anneal	182.47	183.95	1.4819
1036	50	Biased-84Hr-Anneal	190.78	191.47	0.6894
1037	50	Biased-84Hr-Anneal	179.7	181.01	1.3094
1038	50	Biased-84Hr-Anneal	185.72	194.06	8.3411
1039	50	Biased-84Hr-Anneal	195.65	188.59	-7.0534

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	177.66	188.37	194.78	6.7098	183.12	189.45	196.69	5.3537	-9.4137	1.0815	10.52	7.919
20	178.68	186.94	194.58	6.1259	177.43	183.68	190.3	4.662	-12.435	-3.2616	7.653	7.0944
30	178.31	187.58	196.73	6.2715	176.02	185.3	194.87	6.8298	-12.89	-2.2728	7.5172	7.0048
50	179.7	187.65	195.65	4.955	176.06	186.12	194.06	5.5433	-13.306	-1.5363	8.3411	6.4499

Device Test: 24.163 TIMING|MINON/SW/14//511k//@ON_TIME_MIN_14V

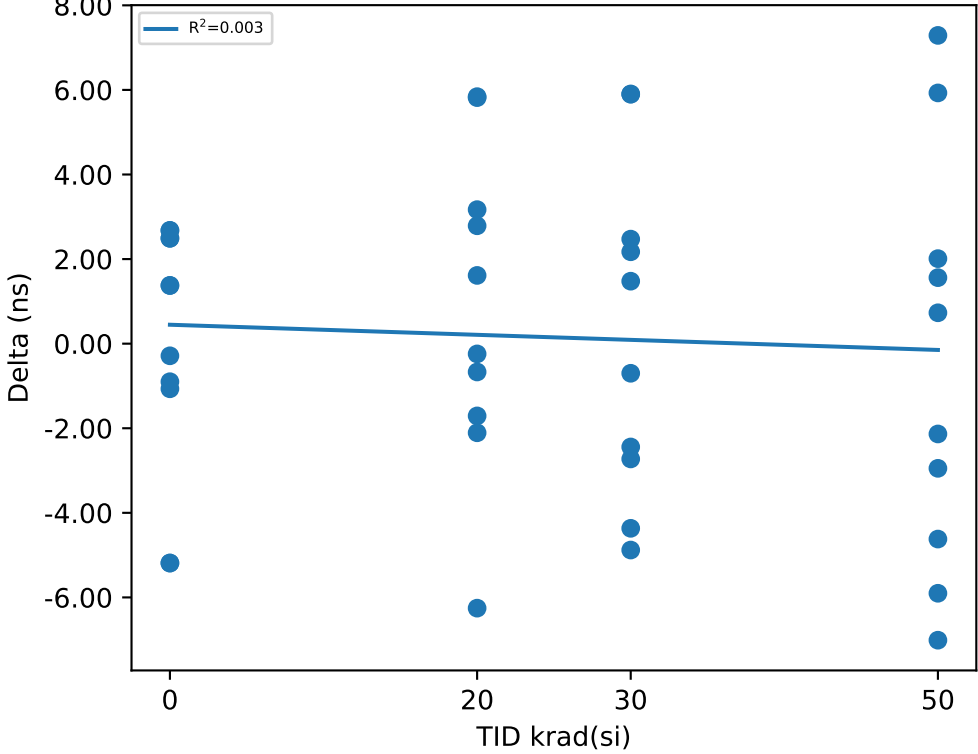
TID vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	182.73	182.45	-0.2869
516	0	CORRELATION	182.1	181.2	-0.8996
721	0	CORRELATION	181.14	180.07	-1.0669
723	0	CORRELATION	185.18	179.99	-5.1871
729	0	CORRELATION	179.09	181.76	2.6776
990	20	Unbiased	183.73	183.49	-0.2421
991	20	Unbiased	180.98	186.82	5.8408
992	20	Unbiased	180.84	174.59	-6.2539
993	20	Unbiased	177.81	180.98	3.1693
994	20	Unbiased	179.3	178.63	-0.6694
995	20	Biased	176.07	178.86	2.7876
996	20	Biased	187.25	185.15	-2.1071
997	20	Biased	187.93	189.54	1.6138
998	20	Biased	189.7	187.99	-1.7082
999	20	Biased	176.19	182.01	5.8178
1020	30	Unbiased	188.06	189.54	1.4772
1021	30	Unbiased	186.56	183.84	-2.7254
1022	30	Unbiased	178.66	184.57	5.904
1023	30	Unbiased	179.55	181.73	2.1728
1024	30	Unbiased	185.44	184.74	-0.7001
1025	30	Biased	180.08	182.56	2.4719
1026	30	Biased	178.82	176.38	-2.4426
1027	30	Biased	183.59	178.71	-4.8797
1028	30	Biased	174.93	180.83	5.8984
1029	30	Biased	177.82	173.45	-4.3661
1030	50	Unbiased	169.39	176.68	7.2891
1031	50	Unbiased	184.98	180.36	-4.6202
1032	50	Unbiased	183.65	185.66	2.0106
1033	50	Unbiased	180.87	181.6	0.7302
1034	50	Unbiased	174.42	180.35	5.9289
1035	50	Biased-84Hr-Anneal	187.65	185.52	-2.135
1036	50	Biased-84Hr-Anneal	184.28	181.34	-2.9477
1037	50	Biased-84Hr-Anneal	186.1	179.09	-7.0116
1038	50	Biased-84Hr-Anneal	189.14	190.7	1.561
1039	50	Biased-84Hr-Anneal	187.4	181.5	-5.902

TID vs Post - Pre Exposure Delta

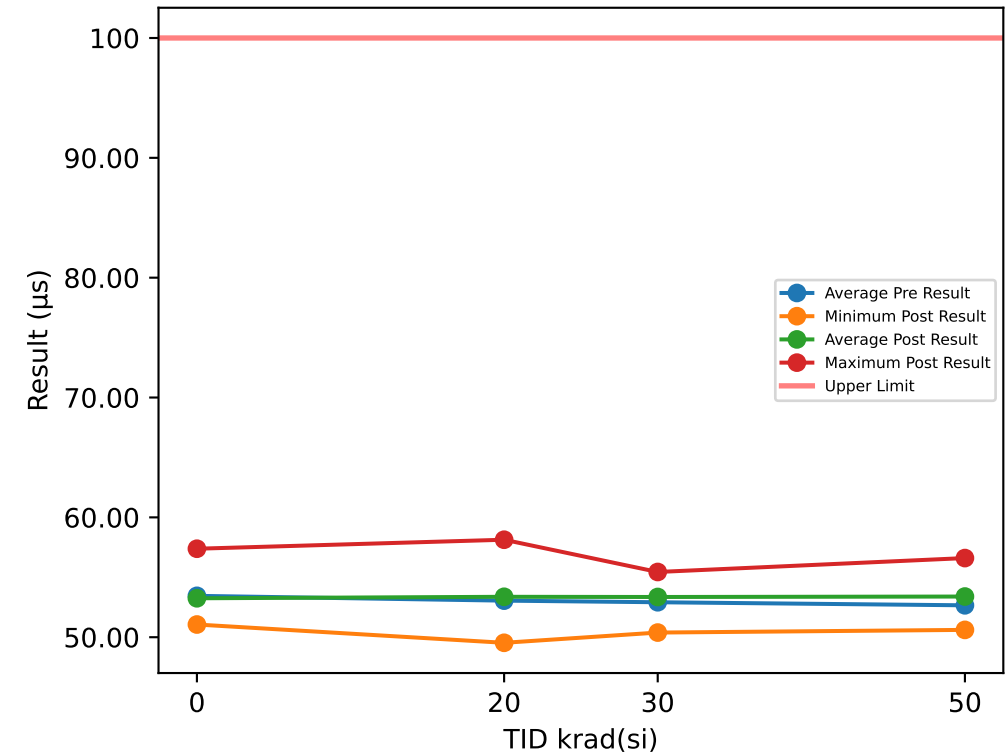


Test Statistics (ns)

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	179.09	182.05	185.18	2.2302	179.99	181.1	182.45	1.0668	-5.1871	-0.95258	2.6776	2.8093
20	176.07	181.98	189.7	4.9579	174.59	182.81	189.54	4.7015	-6.2539	0.82486	5.8408	3.7794
30	174.93	181.35	188.06	4.2957	173.45	181.63	189.54	4.5965	-4.8797	0.28104	5.904	3.9247
50	169.39	182.79	189.14	6.3009	176.68	182.28	190.7	3.9977	-7.0116	-0.50967	7.2891	4.8452

Device Test: 24.164 TIMING|DELAY/EN/14//511k//@T_EN_DELAY

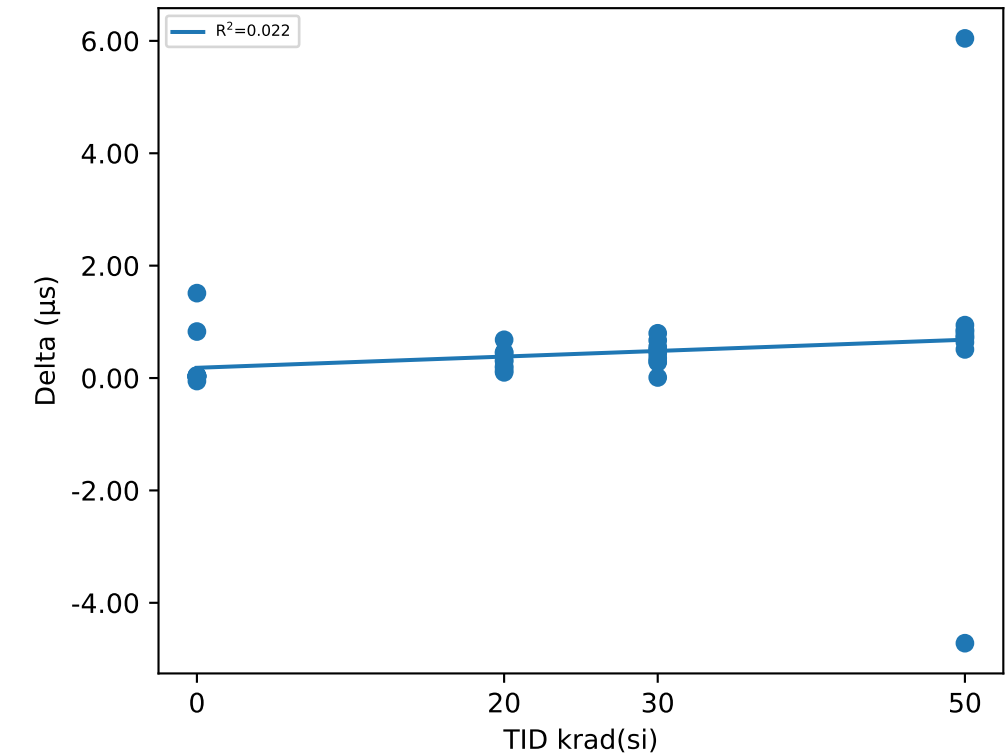
TID vs Result Stats



Test Results (Upper Limit = 100.0 (µs))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	55.873	57.383	1.5108
516	0	CORRELATION	54.967	55.794	0.8275
721	0	CORRELATION	51.114	51.06	-0.0536
723	0	CORRELATION	51.432	51.462	0.0297
729	0	CORRELATION	53.878	53.906	0.0279
990	20	Unbiased	57.746	58.134	0.3885
991	20	Unbiased	52.2	52.88	0.6807
992	20	Unbiased	49.787	49.888	0.1009
993	20	Unbiased	54.895	55.078	0.1833
994	20	Unbiased	53.055	53.515	0.4598
995	20	Biased	51.823	52.272	0.4491
996	20	Biased	54.933	55.059	0.126
997	20	Biased	53.4	53.716	0.316
998	20	Biased	53.353	53.649	0.2958
999	20	Biased	49.326	49.534	0.2079
1020	30	Unbiased	50.627	51.108	0.4805
1021	30	Unbiased	55.163	55.443	0.28
1022	30	Unbiased	52.192	52.202	0.0097
1023	30	Unbiased	51.092	51.527	0.4351
1024	30	Unbiased	54.002	54.673	0.6709
1025	30	Biased	54.004	54.561	0.5573
1026	30	Biased	53.981	54.488	0.5069
1027	30	Biased	50.033	50.388	0.3552
1028	30	Biased	54.092	54.889	0.7966
1029	30	Biased	53.992	54.292	0.2999
1030	50	Unbiased	54.255	54.987	0.7327
1031	50	Unbiased	55.662	56.604	0.9414
1032	50	Unbiased	51.883	52.658	0.7757
1033	50	Unbiased	51.697	52.527	0.8302
1034	50	Unbiased	51.239	52.094	0.8552
1035	50	Biased-84Hr-Anneal	50.83	51.467	0.6364
1036	50	Biased-84Hr-Anneal	53.202	53.914	0.7125
1037	50	Biased-84Hr-Anneal	52.63	53.139	0.5093
1038	50	Biased-84Hr-Anneal	55.33	50.611	-4.7187
1039	50	Biased-84Hr-Anneal	49.896	55.941	6.0441

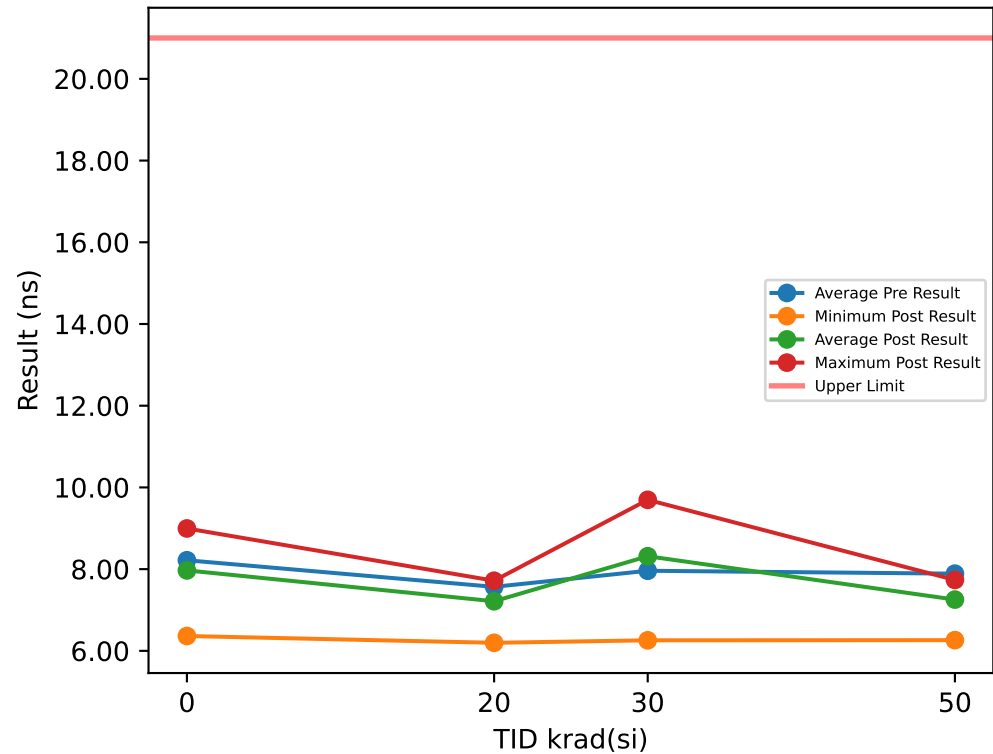
TID vs Post - Pre Exposure Delta



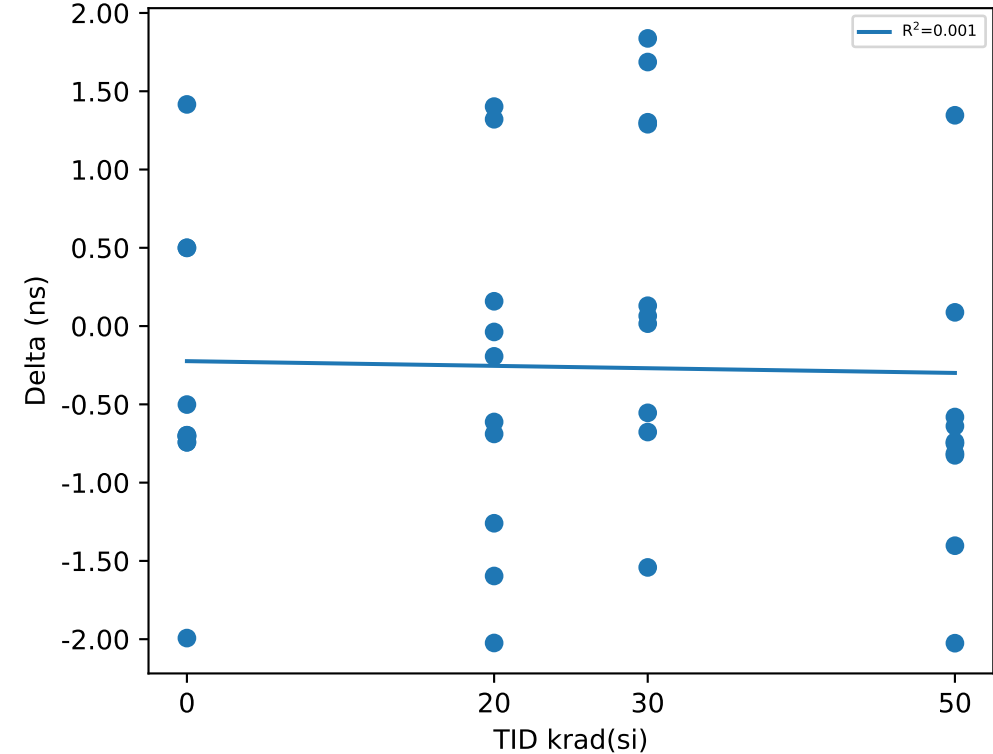
Test Statistics (µs)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	51.114	53.453	55.873	2.1143	51.06	53.921	57.383	2.7262	-0.0536	0.46846	1.5108	0.68457
20	49.326	53.052	57.746	2.4935	49.534	53.373	58.134	2.516	0.1009	0.3208	0.6807	0.17904
30	50.033	52.918	55.163	1.7793	50.388	53.357	55.443	1.8437	0.0097	0.43921	0.7966	0.22059
50	49.896	52.662	55.662	1.9298	50.611	53.394	56.604	1.9466	-4.7187	0.73188	6.0441	2.5399

TID vs Result Stats



TID vs Post - Pre Exposure Delta



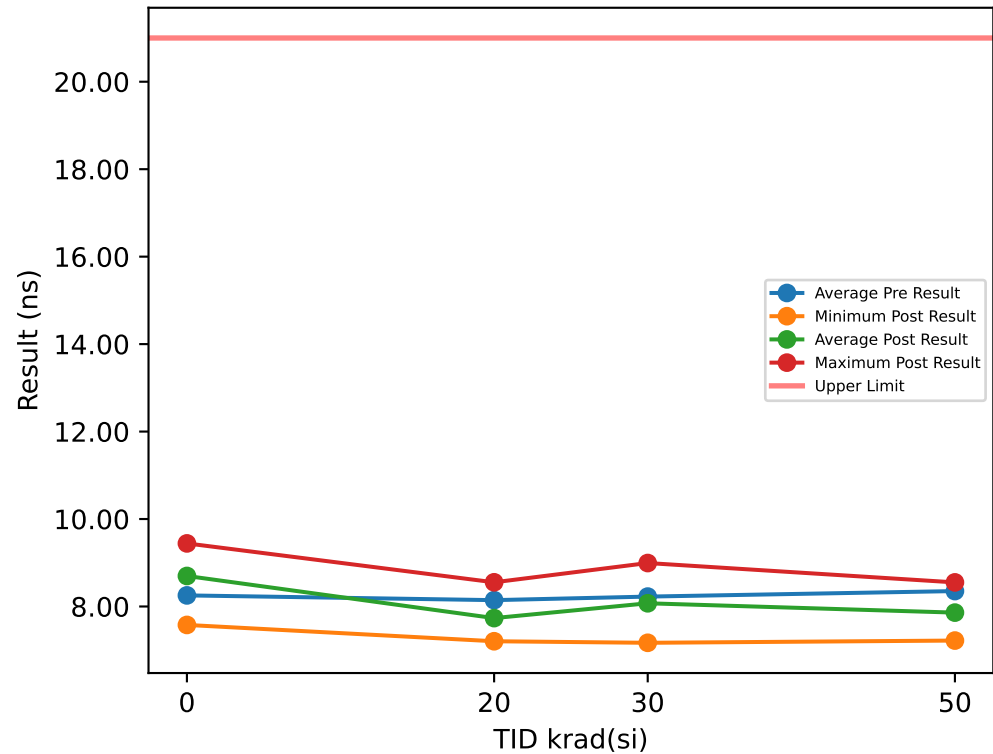
Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	6.2953	7.7112	1.4159
516	0	CORRELATION	8.3563	6.3634	-1.9929
721	0	CORRELATION	9.4543	8.953	-0.5013
723	0	CORRELATION	8.4843	7.7789	-0.7054
729	0	CORRELATION	8.4959	8.9957	0.4998
990	20	Unbiased	7.5562	7.5187	-0.0375
991	20	Unbiased	8.302	7.6895	-0.6125
992	20	Unbiased	7.7935	6.1972	-1.5963
993	20	Unbiased	6.2374	7.5584	1.321
994	20	Unbiased	7.558	7.7164	0.1584
995	20	Biased	8.3177	6.2935	-2.0242
996	20	Biased	7.7194	7.526	-0.1934
997	20	Biased	6.3066	7.7086	1.402
998	20	Biased	7.587	6.3275	-1.2595
999	20	Biased	8.2911	7.6022	-0.6889
1020	30	Unbiased	8.3643	9.6535	1.2892
1021	30	Unbiased	9.533	8.9789	-0.5541
1022	30	Unbiased	7.2766	8.9632	1.6866
1023	30	Unbiased	6.2612	7.5632	1.302
1024	30	Unbiased	7.5852	7.6499	0.0647
1025	30	Biased	7.2577	9.0953	1.8376
1026	30	Biased	9.5664	9.6964	0.13
1027	30	Biased	7.6185	7.634	0.0155
1028	30	Biased	8.3407	7.6639	-0.6768
1029	30	Biased	7.7996	6.258	-1.5416
1030	50	Unbiased	8.2914	7.7105	-0.5809
1031	50	Unbiased	7.7246	6.3218	-1.4028
1032	50	Unbiased	6.3286	7.6751	1.3465
1033	50	Unbiased	7.6234	7.7111	0.0877
1034	50	Unbiased	8.31	6.2844	-2.0256
1035	50	Biased-84Hr-Anneal	8.2659	7.6269	-0.639
1036	50	Biased-84Hr-Anneal	8.4845	7.6709	-0.8136
1037	50	Biased-84Hr-Anneal	8.301	7.5507	-0.7503
1038	50	Biased-84Hr-Anneal	8.4755	7.7355	-0.74
1039	50	Biased-84Hr-Anneal	7.0877	6.2621	-0.8256

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	6.2953	8.2172	9.4543	1.1611	6.3634	7.9604	8.9957	1.0843	-1.9929	-0.25678	1.4159	1.2889
20	6.2374	7.5669	8.3177	0.74979	6.1972	7.2138	7.7164	0.65402	-2.0242	-0.35309	1.402	1.1358
30	6.2612	7.9603	9.5664	1.027	6.258	8.3156	9.6964	1.1203	-1.5416	0.35531	1.8376	1.1294
50	6.3286	7.8893	8.4845	0.709	6.2621	7.2549	7.7355	0.66836	-2.0256	-0.63436	1.3465	0.88615

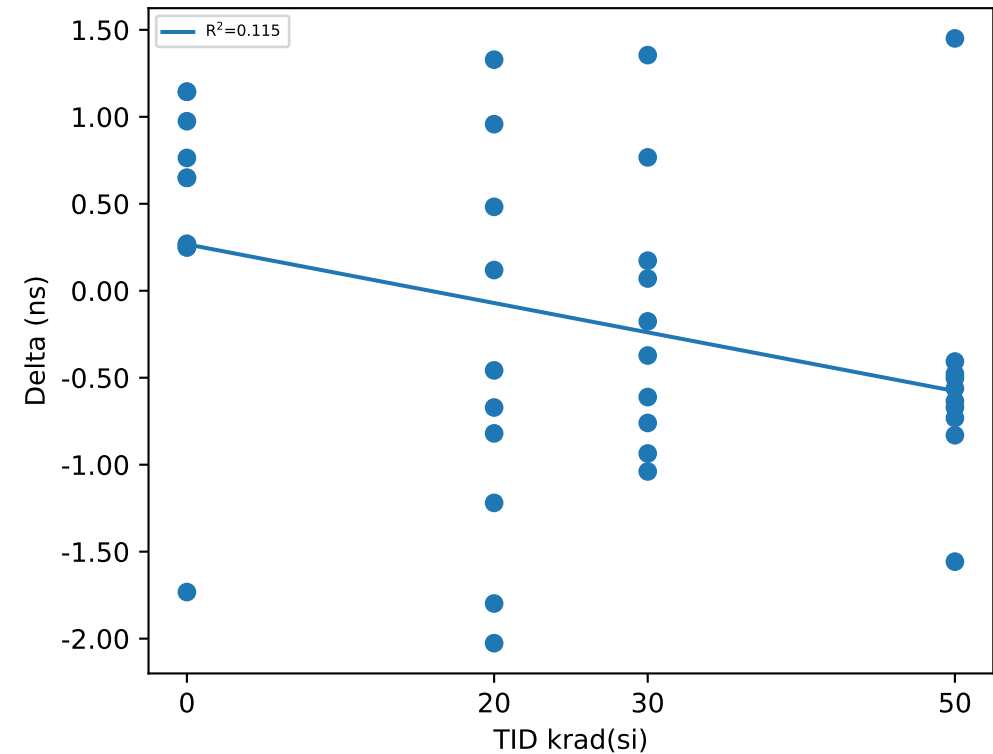
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.5932	8.5678	0.9746
516	0	CORRELATION	9.3103	7.5781	-1.7322
721	0	CORRELATION	7.7719	8.5354	0.7635
723	0	CORRELATION	8.2982	9.4424	1.1442
729	0	CORRELATION	8.2942	8.9434	0.6492
990	20	Unbiased	7.1538	7.2728	0.119
991	20	Unbiased	9.2243	8.5531	-0.6712
992	20	Unbiased	8.3882	7.5683	-0.8199
993	20	Unbiased	7.6626	7.2049	-0.4577
994	20	Unbiased	7.1573	8.4858	1.3285
995	20	Biased	9.363	7.565	-1.798
996	20	Biased	8.4751	7.2555	-1.2196
997	20	Biased	7.5792	8.5369	0.9577
998	20	Biased	7.1961	7.6785	0.4824
999	20	Biased	9.25	7.2238	-2.0262
1020	30	Unbiased	8.8432	7.8043	-1.0389
1021	30	Unbiased	7.7886	8.5553	0.7667
1022	30	Unbiased	9.1697	8.9936	-0.1761
1023	30	Unbiased	7.5418	7.1696	-0.3722
1024	30	Unbiased	7.1125	8.4672	1.3547
1025	30	Biased	9.1896	8.5785	-0.6111
1026	30	Biased	7.7727	7.843	0.0703
1027	30	Biased	7.098	7.2709	0.1729
1028	30	Biased	9.3561	8.4205	-0.9356
1029	30	Biased	8.389	7.6289	-0.7601
1030	50	Unbiased	9.2192	8.4873	-0.7319
1031	50	Unbiased	8.3986	7.5678	-0.8308
1032	50	Unbiased	7.7233	7.2207	-0.5026
1033	50	Unbiased	7.1002	8.551	1.4508
1034	50	Unbiased	9.2166	7.6592	-1.5574
1035	50	Biased-84Hr-Anneal	7.7623	7.2842	-0.4781
1036	50	Biased-84Hr-Anneal	9.0868	8.5256	-0.5612
1037	50	Biased-84Hr-Anneal	7.7052	7.2983	-0.4069
1038	50	Biased-84Hr-Anneal	9.0914	8.4564	-0.635
1039	50	Biased-84Hr-Anneal	8.219	7.5479	-0.6711

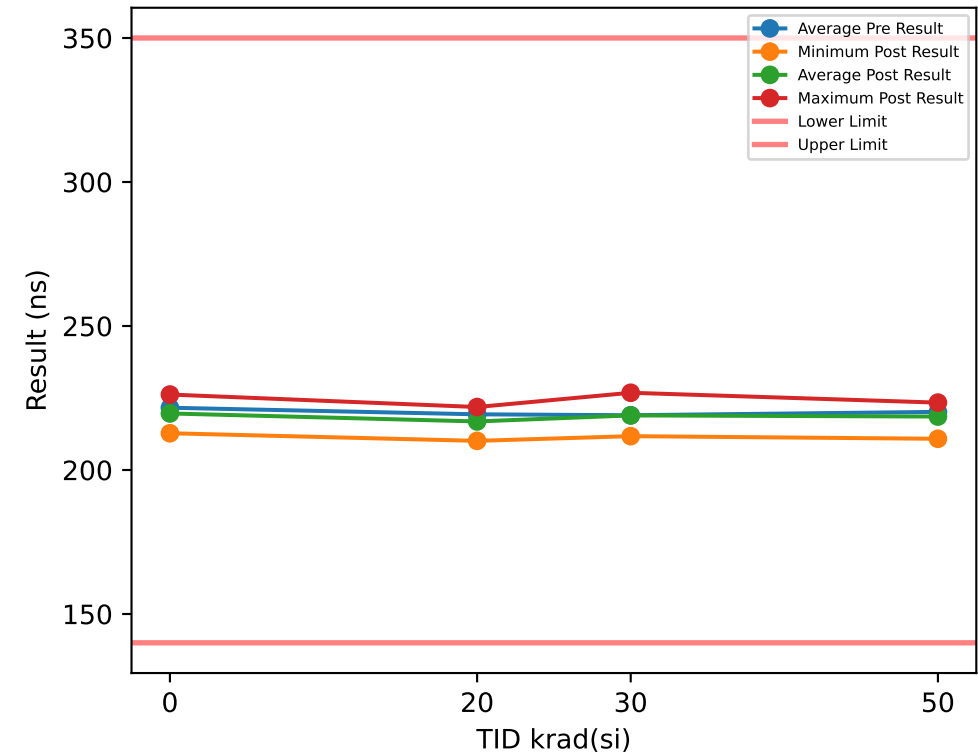
TID vs Post - Pre Exposure Delta



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	7.5932	8.2536	9.3103	0.66866	7.5781	8.6134	9.4424	0.68486	-1.7322	0.35986	1.1442	1.185
20	7.1538	8.145	9.363	0.90975	7.2049	7.7345	8.5531	0.56977	-2.0262	-0.4105	1.3285	1.1256
30	7.098	8.2261	9.3561	0.87438	7.1696	8.0732	8.9936	0.61406	-1.0389	-0.15294	1.3547	0.76735
50	7.1002	8.3523	9.2192	0.76988	7.2207	7.8598	8.551	0.57238	-1.5574	-0.49242	1.4508	0.75621

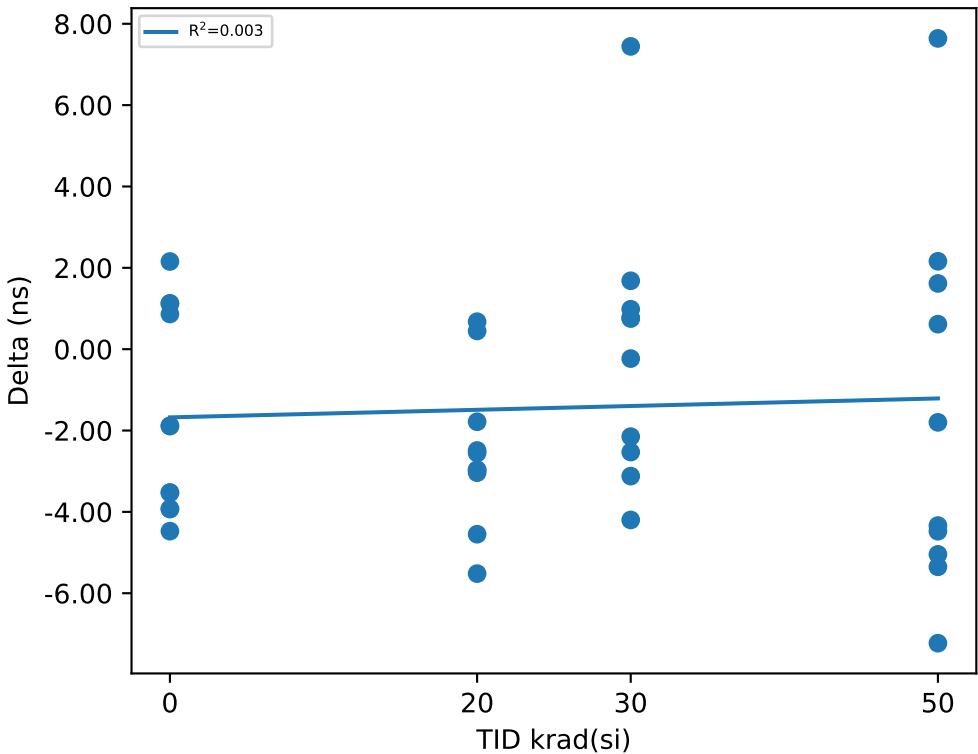
TID vs Result Stats



Test Results (Lower Limit = 140.0, Upper Limit = 350.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	224.05	226.2	2.1559
516	0	CORRELATION	219.97	215.49	-4.4738
721	0	CORRELATION	222.18	223.04	0.8645
723	0	CORRELATION	216.29	217.41	1.1241
729	0	CORRELATION	225.63	223.74	-1.8876
990	20	Unbiased	217.89	216.1	-1.7842
991	20	Unbiased	215.64	210.12	-5.518
992	20	Unbiased	213.27	213.95	0.6756
993	20	Unbiased	221.42	221.87	0.4478
994	20	Unbiased	217.99	215.5	-2.4911
995	20	Biased	222.4	219.43	-2.9716
996	20	Biased	219.89	216.93	-2.9657
997	20	Biased	224.72	220.17	-4.5494
998	20	Biased	218.85	216.3	-2.5519
999	20	Biased	221.26	218.22	-3.0362
1020	30	Unbiased	216.91	224.35	7.4439
1021	30	Unbiased	226.05	226.82	0.7716
1022	30	Unbiased	222.2	218	-4.1985
1023	30	Unbiased	217.93	215.4	-2.5298
1024	30	Unbiased	217.98	214.86	-3.1207
1025	30	Biased	216.21	215.98	-0.2314
1026	30	Biased	222.21	223.89	1.6818
1027	30	Biased	218.34	219.09	0.7527
1028	30	Biased	221.56	219.41	-2.1501
1029	30	Biased	210.76	211.75	0.982
1030	50	Unbiased	216.19	210.84	-5.3504
1031	50	Unbiased	218.3	216.5	-1.7991
1032	50	Unbiased	219.51	215.04	-4.4758
1033	50	Unbiased	222.78	218.45	-4.3363
1034	50	Unbiased	222.98	217.94	-5.0446
1035	50	Biased-84Hr-Anneal	221.78	223.4	1.616
1036	50	Biased-84Hr-Anneal	220.35	220.96	0.6151
1037	50	Biased-84Hr-Anneal	219.03	221.19	2.1612
1038	50	Biased-84Hr-Anneal	215.56	223.2	7.6407
1039	50	Biased-84Hr-Anneal	225.28	218.05	-7.2287

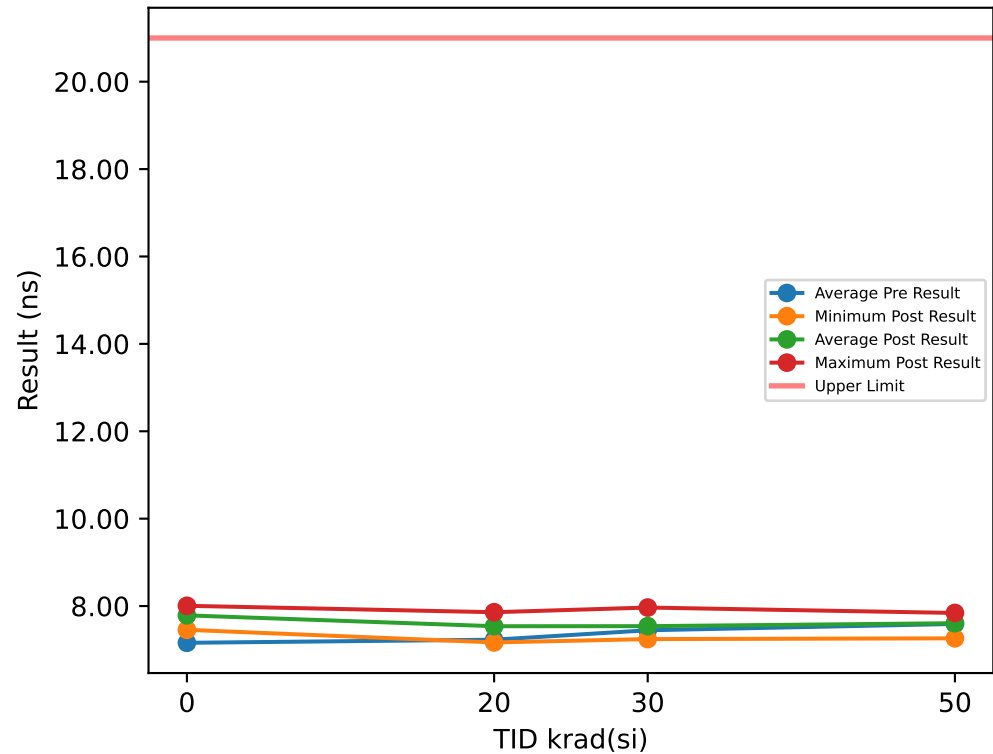
TID vs Post - Pre Exposure Delta



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	216.29	221.62	225.63	3.6567	215.49	221.18	226.2	4.5236	-4.4738	-0.44338	2.1559	2.7043
20	213.27	219.33	224.72	3.3556	210.12	216.86	221.87	3.3527	-5.518	-2.4745	0.6756	1.9241
30	210.76	219.02	226.05	4.2079	211.75	218.96	226.82	4.7919	-4.1985	-0.05985	7.4439	3.3128
50	215.56	220.18	225.28	3.0862	210.84	218.56	223.4	3.8666	-7.2287	-1.6202	7.6407	4.5728

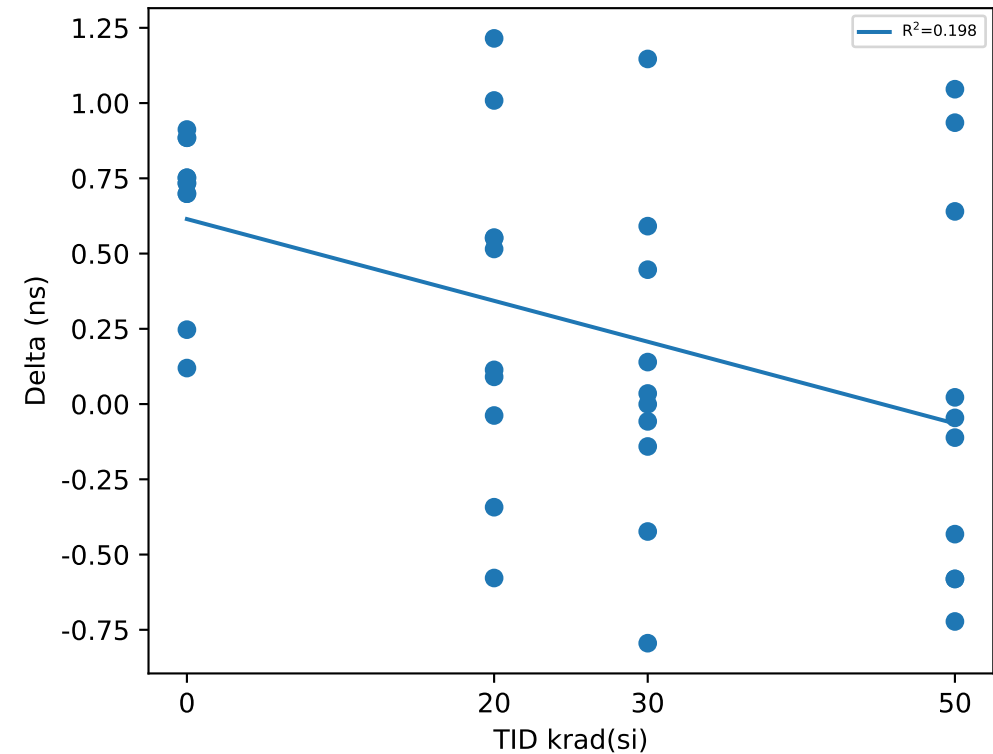
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.5887	7.8359	0.2472
516	0	CORRELATION	6.7227	7.6349	0.9122
721	0	CORRELATION	7.3368	7.4564	0.1196
723	0	CORRELATION	7.0266	7.7784	0.7518
729	0	CORRELATION	7.1214	8.0062	0.8848
990	20	Unbiased	7.1762	7.2666	0.0904
991	20	Unbiased	6.644	7.8589	1.2149
992	20	Unbiased	7.6792	7.6412	-0.038
993	20	Unbiased	7.5757	7.233	-0.3427
994	20	Unbiased	7.1437	7.6968	0.5531
995	20	Biased	6.6831	7.6918	1.0087
996	20	Biased	7.7454	7.1675	-0.5779
997	20	Biased	7.7042	7.8178	0.1136
998	20	Biased	7.1701	7.6854	0.5153
999	20	Biased	6.7778	7.3288	0.551
1020	30	Unbiased	8.1271	7.3326	-0.7945
1021	30	Unbiased	7.415	7.4502	0.0352
1022	30	Unbiased	7.5194	7.9659	0.4465
1023	30	Unbiased	7.6677	7.2443	-0.4234
1024	30	Unbiased	7.2452	7.8363	0.5911
1025	30	Biased	7.4834	7.4259	-0.0575
1026	30	Biased	7.2431	7.3826	0.1395
1027	30	Biased	7.2639	7.2634	-0.0005
1028	30	Biased	6.7101	7.8567	1.1466
1029	30	Biased	7.7801	7.6392	-0.1409
1030	50	Unbiased	6.6964	7.7425	1.0461
1031	50	Unbiased	7.7735	7.662	-0.1115
1032	50	Unbiased	7.6939	7.2617	-0.4322
1033	50	Unbiased	7.2024	7.8425	0.6401
1034	50	Unbiased	6.7487	7.6836	0.9349
1035	50	Biased-84Hr-Anneal	7.867	7.2861	-0.5809
1036	50	Biased-84Hr-Anneal	7.8482	7.8023	-0.0459
1037	50	Biased-84Hr-Anneal	7.9104	7.3293	-0.5811
1038	50	Biased-84Hr-Anneal	7.8106	7.8329	0.0223
1039	50	Biased-84Hr-Anneal	8.3547	7.6324	-0.7223

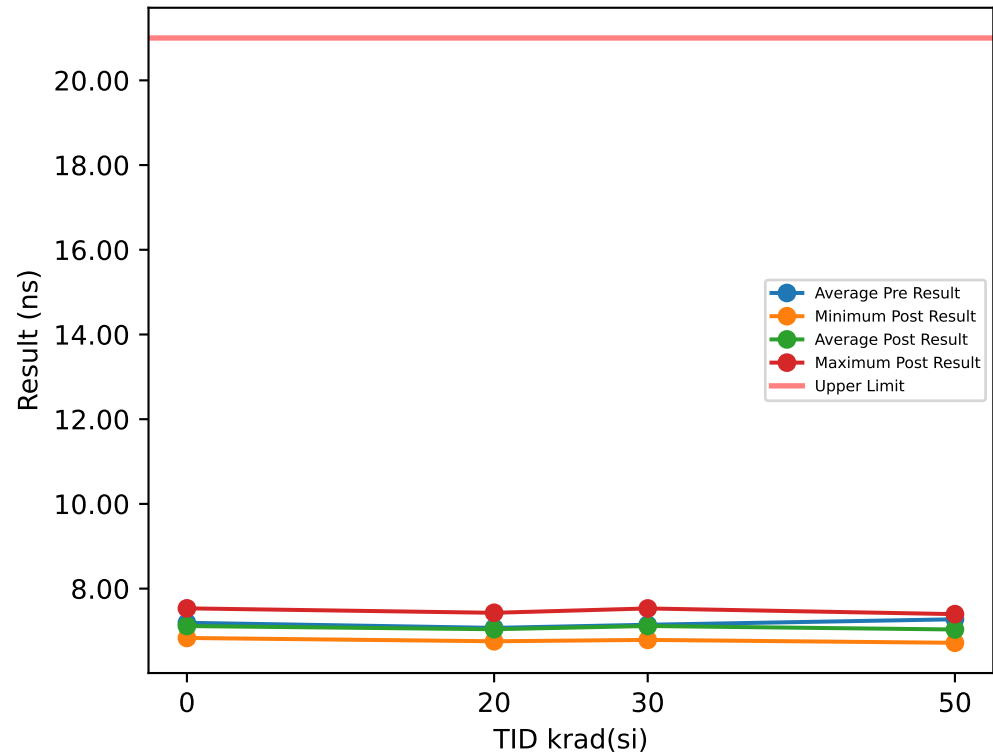
TID vs Post - Pre Exposure Delta



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	6.7227	7.1592	7.5887	0.32617	7.4564	7.7424	8.0062	0.20795	0.1196	0.58312	0.9122	0.37264
20	6.644	7.2299	7.7454	0.43111	7.1675	7.5388	7.8589	0.26039	-0.5779	0.30884	1.2149	0.56653
30	6.7101	7.4455	8.1271	0.37839	7.2443	7.5397	7.9659	0.26502	-0.7945	0.09421	1.1466	0.54048
50	6.6964	7.5906	8.3547	0.53546	7.2617	7.6075	7.8425	0.22897	-0.7223	0.01695	1.0461	0.64755

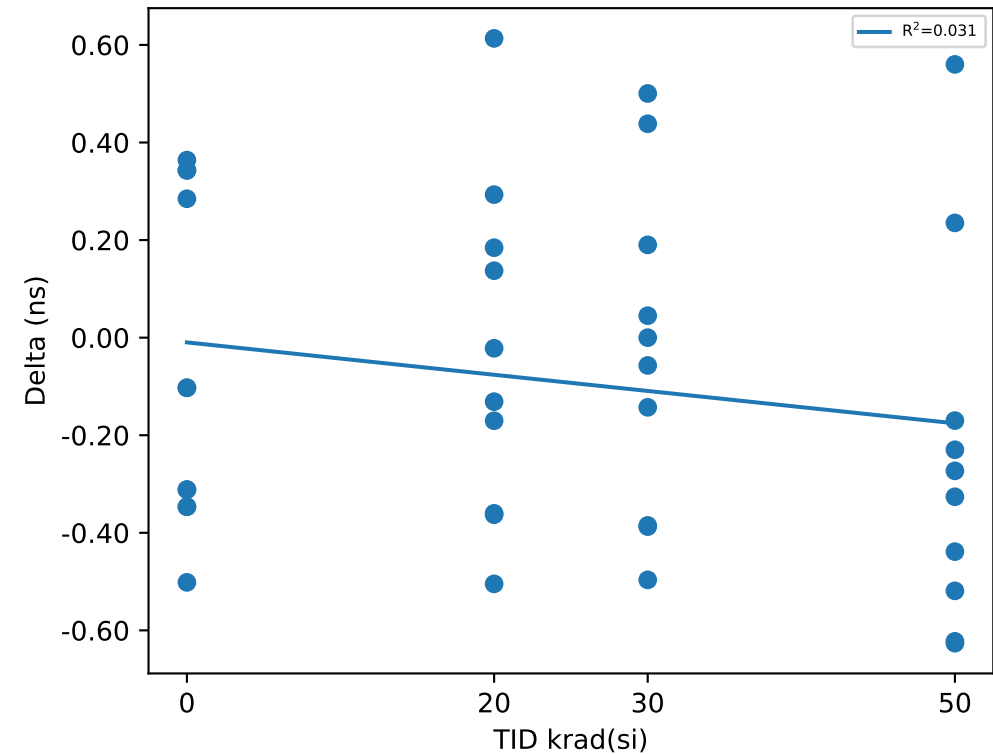
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.3713	6.8697	-0.5016
516	0	CORRELATION	7.0897	7.3744	0.2847
721	0	CORRELATION	7.1702	7.5341	0.3639
723	0	CORRELATION	7.1522	7.4952	0.343
729	0	CORRELATION	7.1817	7.0789	-0.1028
990	20	Unbiased	6.9792	6.9574	-0.0218
991	20	Unbiased	7.1172	6.7571	-0.3601
992	20	Unbiased	6.8156	7.429	0.6134
993	20	Unbiased	7.3687	7.0058	-0.3629
994	20	Unbiased	6.9437	6.8125	-0.1312
995	20	Biased	7.1423	7.3267	0.1844
996	20	Biased	6.8467	6.9839	0.1372
997	20	Biased	7.3944	6.8897	-0.5047
998	20	Biased	6.9783	7.2715	0.2932
999	20	Biased	7.1476	6.9773	-0.1703
1020	30	Unbiased	7.4346	7.0497	-0.3849
1021	30	Unbiased	7.3417	7.5319	0.1902
1022	30	Unbiased	7.0142	7.0592	0.045
1023	30	Unbiased	7.4561	6.9596	-0.4965
1024	30	Unbiased	7.0025	6.8597	-0.1428
1025	30	Biased	6.9978	7.4983	0.5005
1026	30	Biased	7.1348	7.0778	-0.057
1027	30	Biased	7.029	7.029	0
1028	30	Biased	7.1767	6.7894	-0.3873
1029	30	Biased	6.8792	7.3176	0.4384
1030	50	Unbiased	7.0702	6.7972	-0.273
1031	50	Unbiased	6.8375	7.3976	0.5601
1032	50	Unbiased	7.4228	6.9842	-0.4386
1033	50	Unbiased	6.9712	6.8012	-0.17
1034	50	Unbiased	7.071	7.3062	0.2352
1035	50	Biased-84Hr-Anneal	7.6828	7.0603	-0.6225
1036	50	Biased-84Hr-Anneal	7.0856	6.8558	-0.2298
1037	50	Biased-84Hr-Anneal	7.7295	7.1032	-0.6263
1038	50	Biased-84Hr-Anneal	7.0471	6.7209	-0.3262
1039	50	Biased-84Hr-Anneal	7.8428	7.3238	-0.519

TID vs Post - Pre Exposure Delta

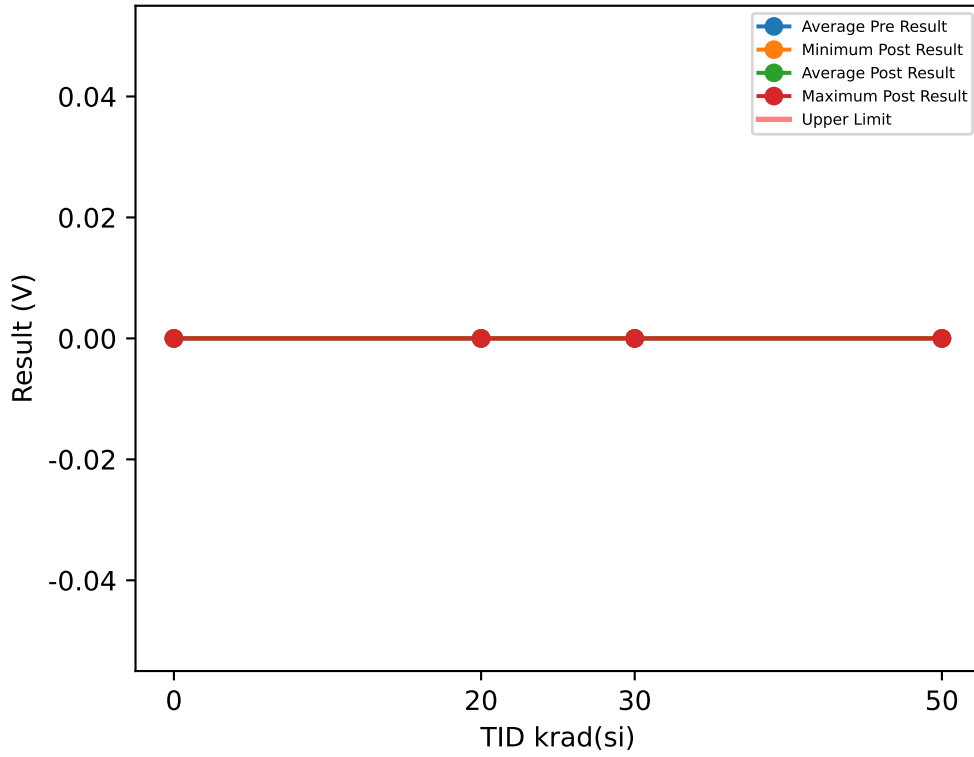


Test Statistics (ns)

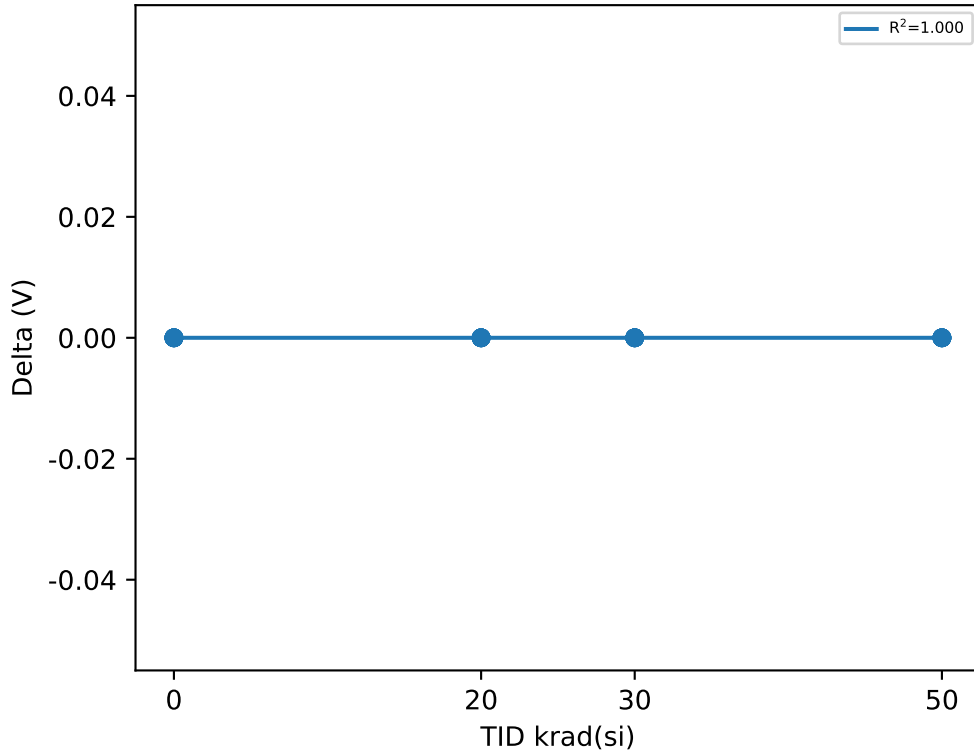
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.0897	7.193	7.3713	0.1058	6.8697	7.2705	7.5341	0.28641	-0.5016	0.07744	0.3639	0.37527
20	6.8156	7.0734	7.3944	0.19861	6.7571	7.0411	7.429	0.22523	-0.5047	-0.03228	0.6134	0.34439
30	6.8792	7.1467	7.4561	0.201	6.7894	7.1172	7.5319	0.25237	-0.4965	-0.02944	0.5005	0.34002
50	6.8375	7.2761	7.8428	0.36089	6.7209	7.035	7.3976	0.24456	-0.6263	-0.24101	0.5601	0.37893

Device Test: 24.22 LEVELS|VOH/SYNC1/4.5//511k/4011/@SYNC_OUT_HIGH

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (No Limits Specified (V))

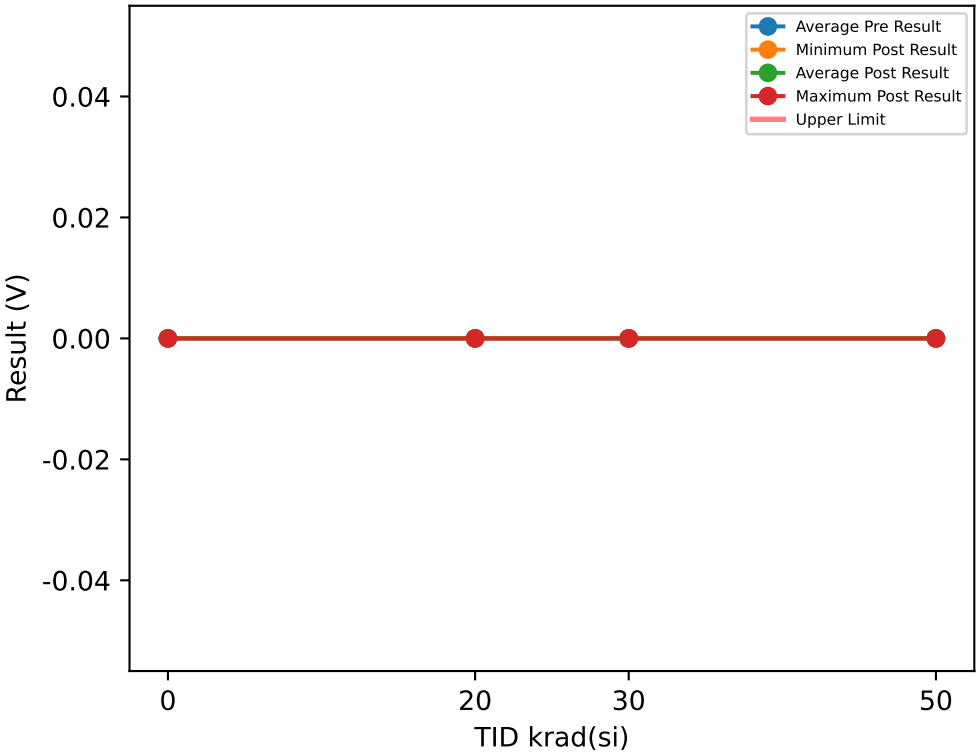
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0	0	0
516	0	CORRELATION	0	0	0
721	0	CORRELATION	0	0	0
723	0	CORRELATION	0	0	0
729	0	CORRELATION	0	0	0
990	20	Unbiased	0	0	0
991	20	Unbiased	0	0	0
992	20	Unbiased	0	0	0
993	20	Unbiased	0	0	0
994	20	Unbiased	0	0	0
995	20	Biased	0	0	0
996	20	Biased	0	0	0
997	20	Biased	0	0	0
998	20	Biased	0	0	0
999	20	Biased	0	0	0
1020	30	Unbiased	0	0	0
1021	30	Unbiased	0	0	0
1022	30	Unbiased	0	0	0
1023	30	Unbiased	0	0	0
1024	30	Unbiased	0	0	0
1025	30	Biased	0	0	0
1026	30	Biased	0	0	0
1027	30	Biased	0	0	0
1028	30	Biased	0	0	0
1029	30	Biased	0	0	0
1030	50	Unbiased	0	0	0
1031	50	Unbiased	0	0	0
1032	50	Unbiased	0	0	0
1033	50	Unbiased	0	0	0
1034	50	Unbiased	0	0	0
1035	50	Biased-84Hr-Anneal	0	0	0
1036	50	Biased-84Hr-Anneal	0	0	0
1037	50	Biased-84Hr-Anneal	0	0	0
1038	50	Biased-84Hr-Anneal	0	0	0
1039	50	Biased-84Hr-Anneal	0	0	0

Test Statistics (V)

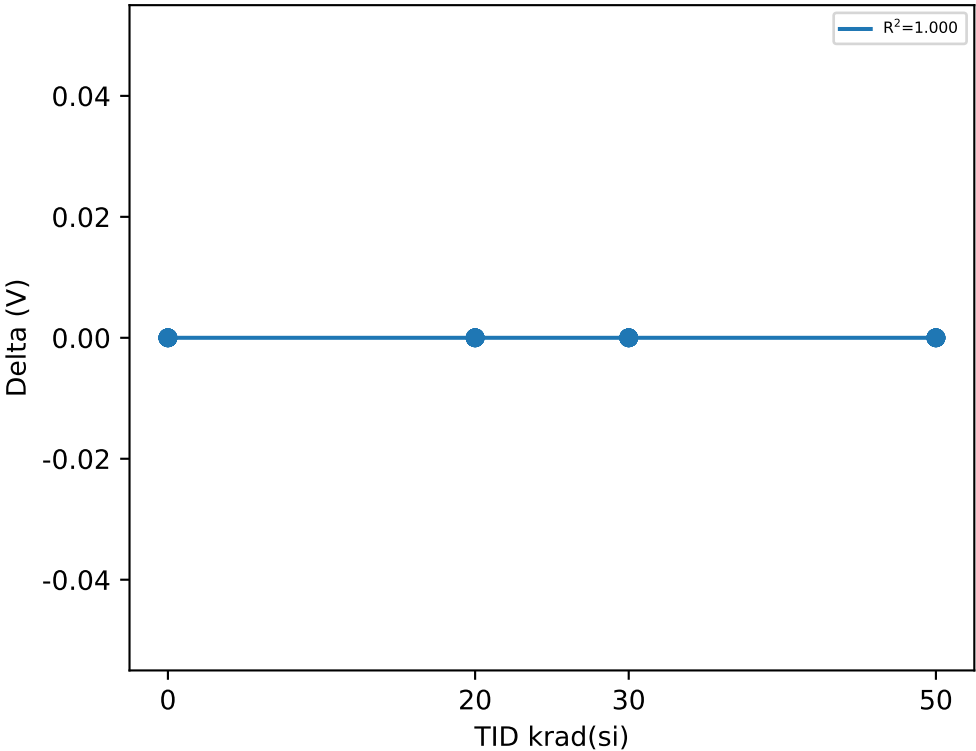
[illegible]

Device Test: 24.23 LEVELS|VOH/SYNC2/4.5//511k//@SYNC_OUT_HIGH

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (No Limits Specified (V))

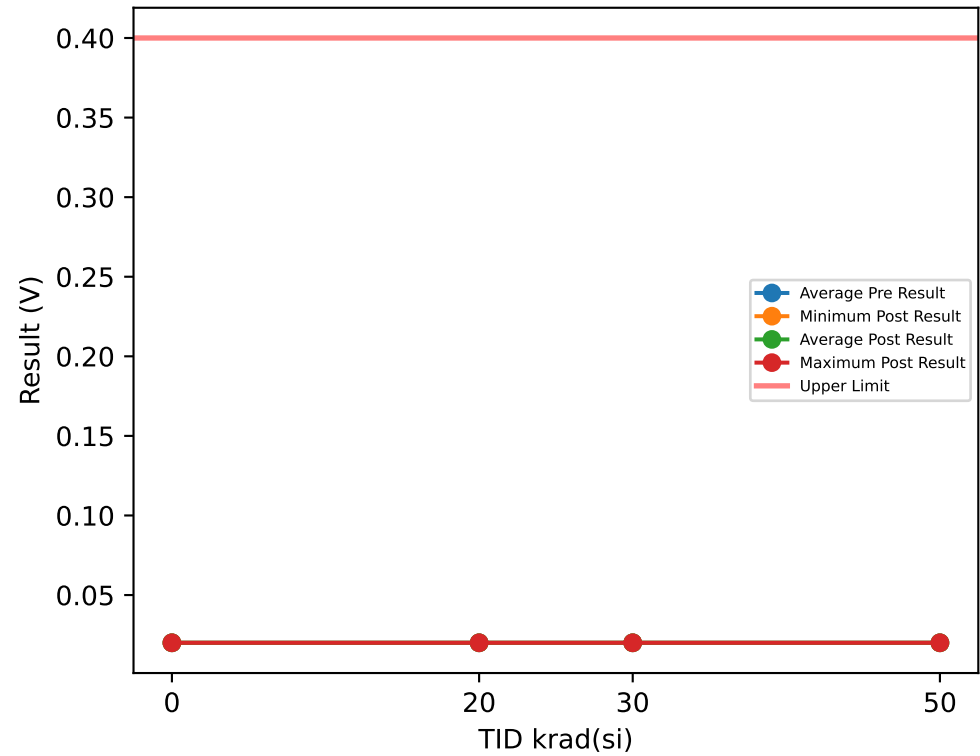
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0	0	0
516	0	CORRELATION	0	0	0
721	0	CORRELATION	0	0	0
723	0	CORRELATION	0	0	0
729	0	CORRELATION	0	0	0
990	20	Unbiased	0	0	0
991	20	Unbiased	0	0	0
992	20	Unbiased	0	0	0
993	20	Unbiased	0	0	0
994	20	Unbiased	0	0	0
995	20	Biased	0	0	0
996	20	Biased	0	0	0
997	20	Biased	0	0	0
998	20	Biased	0	0	0
999	20	Biased	0	0	0
1020	30	Unbiased	0	0	0
1021	30	Unbiased	0	0	0
1022	30	Unbiased	0	0	0
1023	30	Unbiased	0	0	0
1024	30	Unbiased	0	0	0
1025	30	Biased	0	0	0
1026	30	Biased	0	0	0
1027	30	Biased	0	0	0
1028	30	Biased	0	0	0
1029	30	Biased	0	0	0
1030	50	Unbiased	0	0	0
1031	50	Unbiased	0	0	0
1032	50	Unbiased	0	0	0
1033	50	Unbiased	0	0	0
1034	50	Unbiased	0	0	0
1035	50	Biased-84Hr-Anneal	0	0	0
1036	50	Biased-84Hr-Anneal	0	0	0
1037	50	Biased-84Hr-Anneal	0	0	0
1038	50	Biased-84Hr-Anneal	0	0	0
1039	50	Biased-84Hr-Anneal	0	0	0

Test Statistics (V)

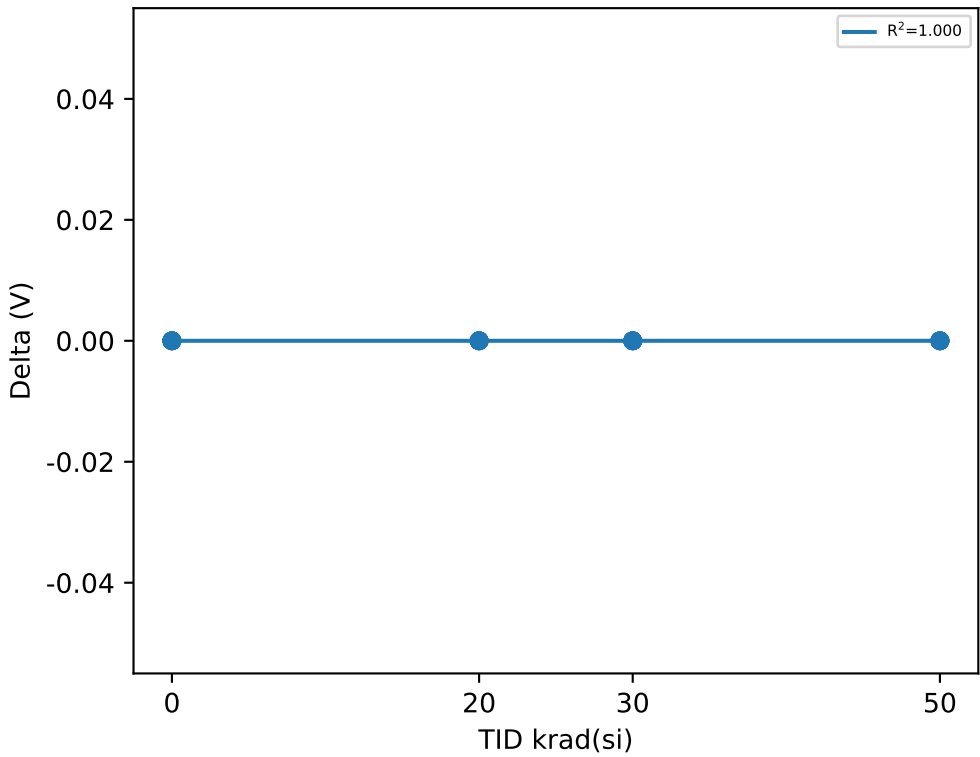
[illegible]

Device Test: 24.24 LEVELS|VOL/SYNC1/4.5//511k/4011/@SYNC_OUT_LOW

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 0.4 (V))

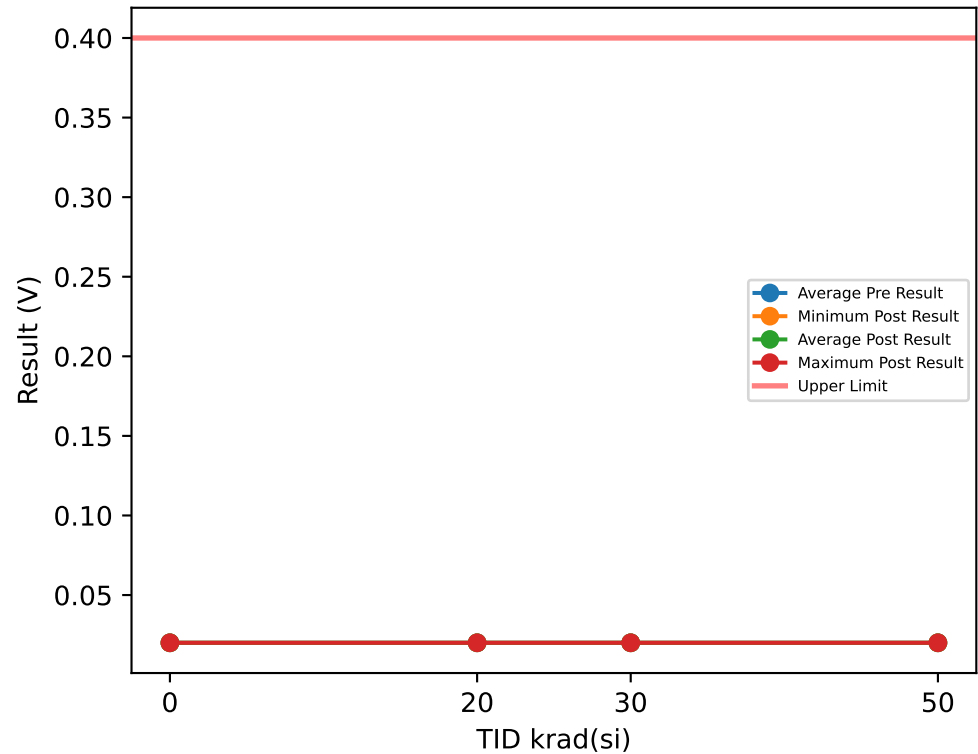
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.02	0.02	0
516	0	CORRELATION	0.02	0.02	0
721	0	CORRELATION	0.02	0.02	0
723	0	CORRELATION	0.02	0.02	0
729	0	CORRELATION	0.02	0.02	0
990	20	Unbiased	0.02	0.02	0
991	20	Unbiased	0.02	0.02	0
992	20	Unbiased	0.02	0.02	0
993	20	Unbiased	0.02	0.02	0
994	20	Unbiased	0.02	0.02	0
995	20	Biased	0.02	0.02	0
996	20	Biased	0.02	0.02	0
997	20	Biased	0.02	0.02	0
998	20	Biased	0.02	0.02	0
999	20	Biased	0.02	0.02	0
1020	30	Unbiased	0.02	0.02	0
1021	30	Unbiased	0.02	0.02	0
1022	30	Unbiased	0.02	0.02	0
1023	30	Unbiased	0.02	0.02	0
1024	30	Unbiased	0.02	0.02	0
1025	30	Biased	0.02	0.02	0
1026	30	Biased	0.02	0.02	0
1027	30	Biased	0.02	0.02	0
1028	30	Biased	0.02	0.02	0
1029	30	Biased	0.02	0.02	0
1030	50	Unbiased	0.02	0.02	0
1031	50	Unbiased	0.02	0.02	0
1032	50	Unbiased	0.02	0.02	0
1033	50	Unbiased	0.02	0.02	0
1034	50	Unbiased	0.02	0.02	0
1035	50	Biased-84Hr-Anneal	0.02	0.02	0
1036	50	Biased-84Hr-Anneal	0.02	0.02	0
1037	50	Biased-84Hr-Anneal	0.02	0.02	0
1038	50	Biased-84Hr-Anneal	0.02	0.02	0
1039	50	Biased-84Hr-Anneal	0.02	0.02	0

Test Statistics (V)

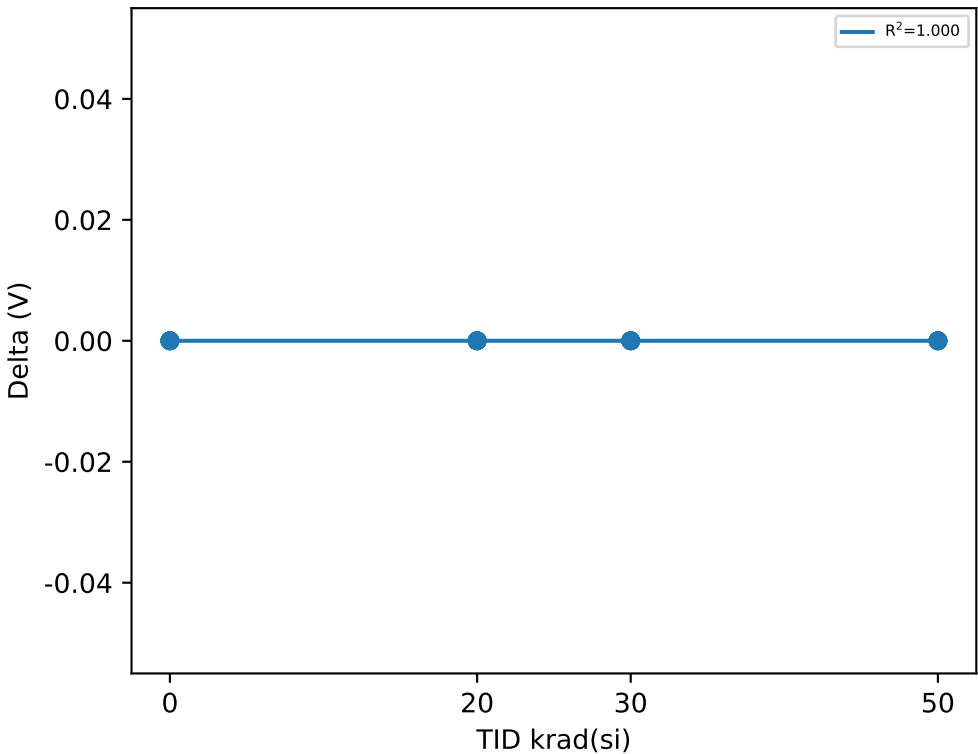
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
20	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
30	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
50	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.25 LEVELS|VOL/SYNC2/4.5//511k//@SYNC_OUT_LOW

TID vs Result Stats



TID vs Post - Pre Exposure Delta

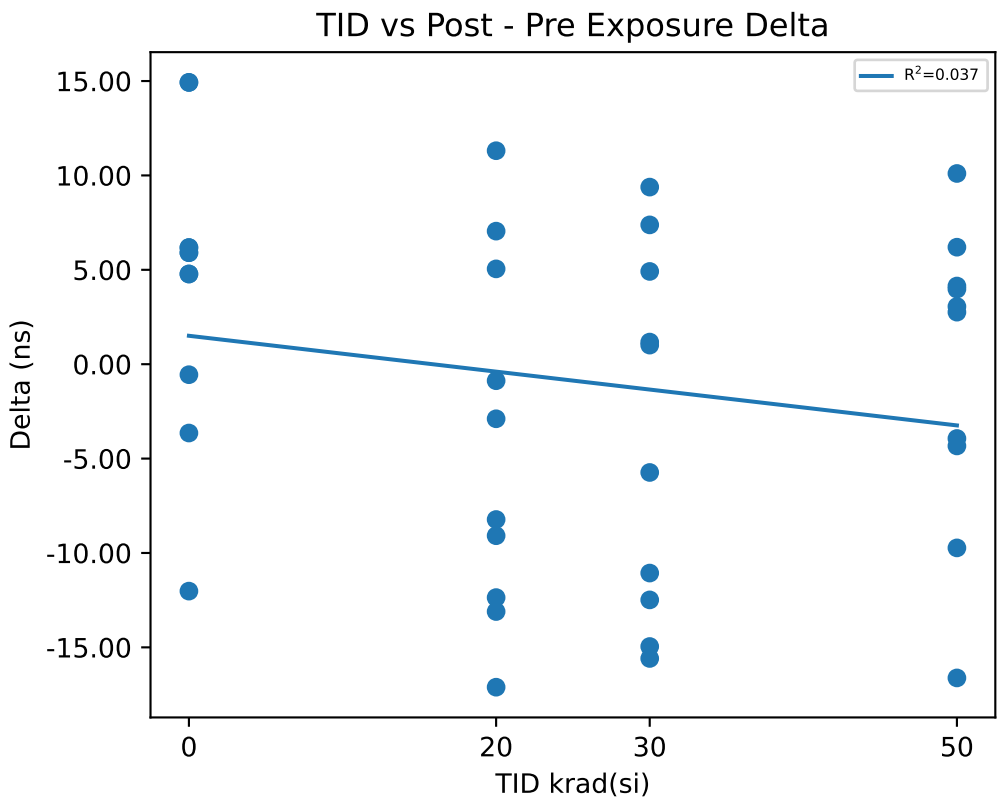
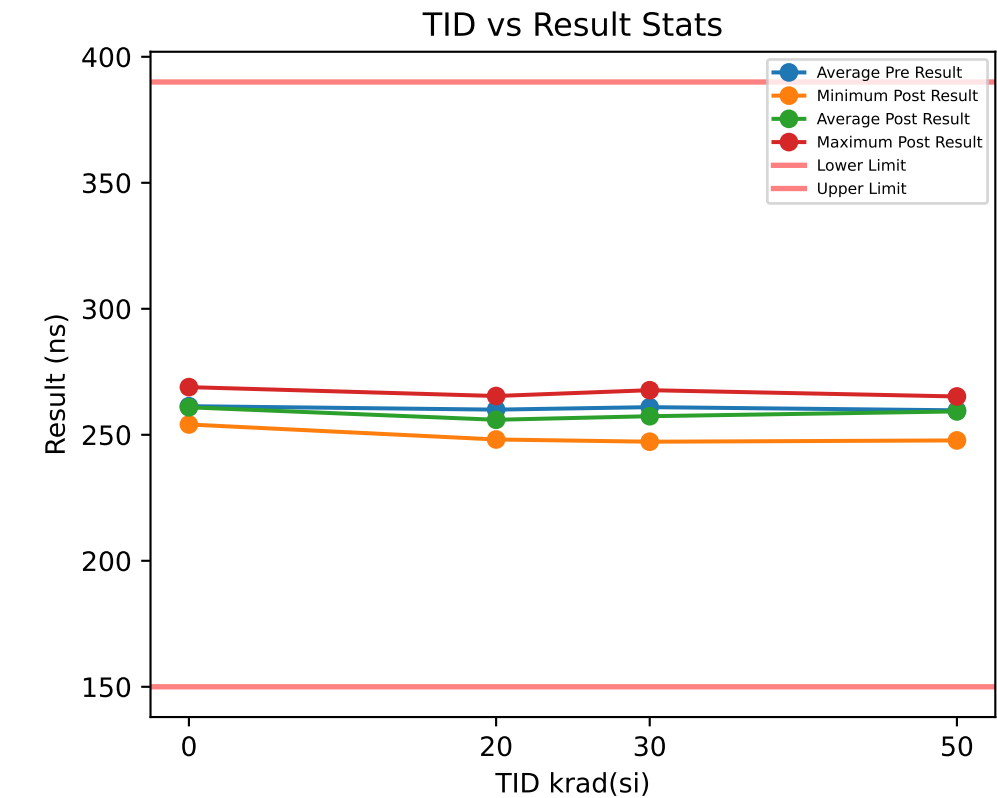


Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.02	0.02	0
516	0	CORRELATION	0.02	0.02	0
721	0	CORRELATION	0.02	0.02	0
723	0	CORRELATION	0.02	0.02	0
729	0	CORRELATION	0.02	0.02	0
990	20	Unbiased	0.02	0.02	0
991	20	Unbiased	0.02	0.02	0
992	20	Unbiased	0.02	0.02	0
993	20	Unbiased	0.02	0.02	0
994	20	Unbiased	0.02	0.02	0
995	20	Biased	0.02	0.02	0
996	20	Biased	0.02	0.02	0
997	20	Biased	0.02	0.02	0
998	20	Biased	0.02	0.02	0
999	20	Biased	0.02	0.02	0
1020	30	Unbiased	0.02	0.02	0
1021	30	Unbiased	0.02	0.02	0
1022	30	Unbiased	0.02	0.02	0
1023	30	Unbiased	0.02	0.02	0
1024	30	Unbiased	0.02	0.02	0
1025	30	Biased	0.02	0.02	0
1026	30	Biased	0.02	0.02	0
1027	30	Biased	0.02	0.02	0
1028	30	Biased	0.02	0.02	0
1029	30	Biased	0.02	0.02	0
1030	50	Unbiased	0.02	0.02	0
1031	50	Unbiased	0.02	0.02	0
1032	50	Unbiased	0.02	0.02	0
1033	50	Unbiased	0.02	0.02	0
1034	50	Unbiased	0.02	0.02	0
1035	50	Biased-84Hr-Anneal	0.02	0.02	0
1036	50	Biased-84Hr-Anneal	0.02	0.02	0
1037	50	Biased-84Hr-Anneal	0.02	0.02	0
1038	50	Biased-84Hr-Anneal	0.02	0.02	0
1039	50	Biased-84Hr-Anneal	0.02	0.02	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
20	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
30	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
50	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0



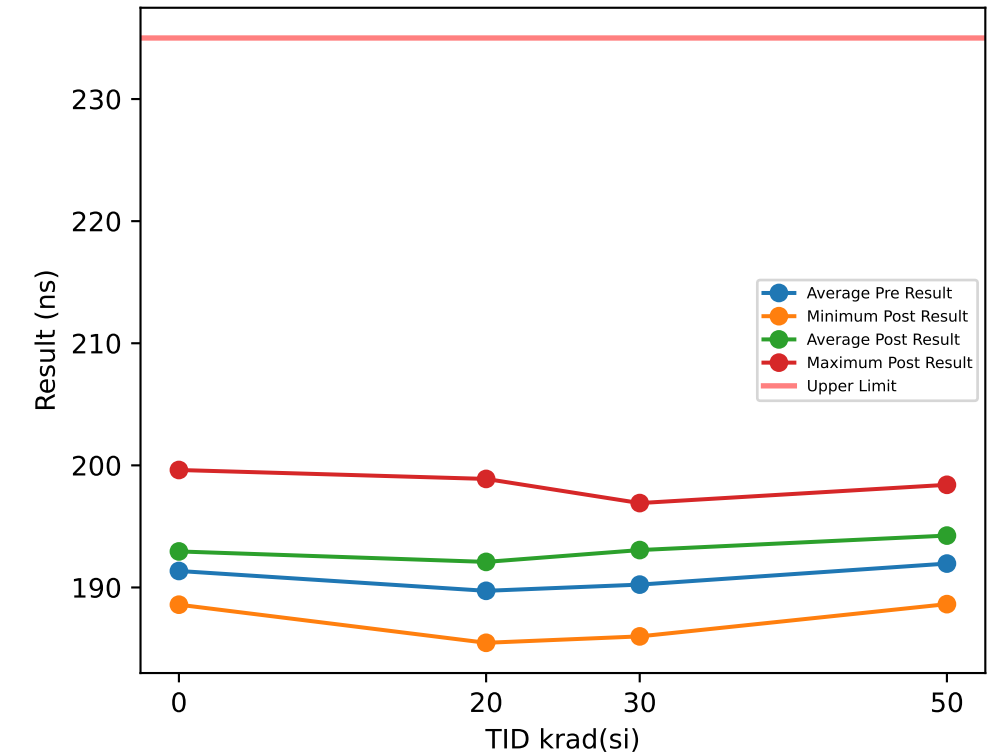
Test Results (Lower Limit = 150.0, Upper Limit = 390.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	269.47	268.92	-0.556
516	0	CORRELATION	265.64	262	-3.646
721	0	CORRELATION	266.39	254.37	-12.021
723	0	CORRELATION	248.19	263.12	14.928
729	0	CORRELATION	257.1	261.88	4.7785
990	20	Unbiased	249.02	248.14	-0.8751
991	20	Unbiased	260.56	251.47	-9.0859
992	20	Unbiased	255.01	260.06	5.0496
993	20	Unbiased	266.86	253.76	-13.102
994	20	Unbiased	249.87	256.92	7.049
995	20	Biased	268.29	265.4	-2.8914
996	20	Biased	261.92	249.55	-12.363
997	20	Biased	270.23	262	-8.2273
998	20	Biased	250.76	262.07	11.309
999	20	Biased	267.36	250.25	-17.111
1020	30	Unbiased	258.29	267.67	9.3821
1021	30	Unbiased	270.98	258.5	-12.486
1022	30	Unbiased	268.17	257.11	-11.064
1023	30	Unbiased	263.68	248.09	-15.588
1024	30	Unbiased	250.04	257.42	7.38
1025	30	Biased	262.22	247.26	-14.955
1026	30	Biased	266.53	267.7	1.1721
1027	30	Biased	250.45	251.46	1.0113
1028	30	Biased	266.9	261.17	-5.7351
1029	30	Biased	252.45	257.36	4.914
1030	50	Unbiased	262.95	253.22	-9.7311
1031	50	Unbiased	259.85	262.9	3.055
1032	50	Unbiased	264.39	247.77	-16.619
1033	50	Unbiased	254.58	260.78	6.1981
1034	50	Unbiased	268.43	264.5	-3.9355
1035	50	Biased-84Hr-Anneal	251.61	255.75	4.141
1036	50	Biased-84Hr-Anneal	259.97	263.95	3.9791
1037	50	Biased-84Hr-Anneal	251.11	253.86	2.7569
1038	50	Biased-84Hr-Anneal	255.11	265.21	10.103
1039	50	Biased-84Hr-Anneal	269.16	264.83	-4.3297

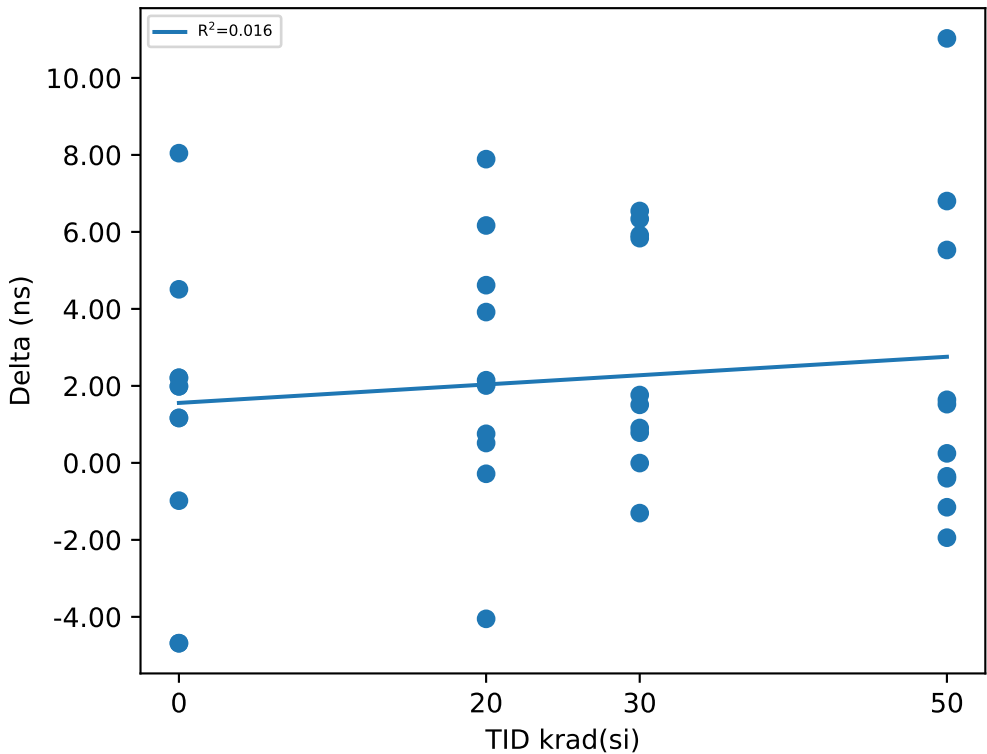
Test Statistics (ns)

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	248.19	261.36	269.47	8.6774	254.37	262.06	268.92	5.179	-12.021	0.69676	14.928	10.017
20	249.02	259.99	270.23	8.2457	248.14	255.96	265.4	6.1502	-17.111	-4.0248	11.309	9.5321
30	250.04	260.97	270.98	7.7248	247.26	257.37	267.7	7.0853	-15.588	-3.5968	9.3821	9.5306
50	251.11	259.71	269.16	6.5406	247.77	259.28	265.21	6.159	-16.619	-0.43824	10.103	8.1215

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 235.0 (ns))

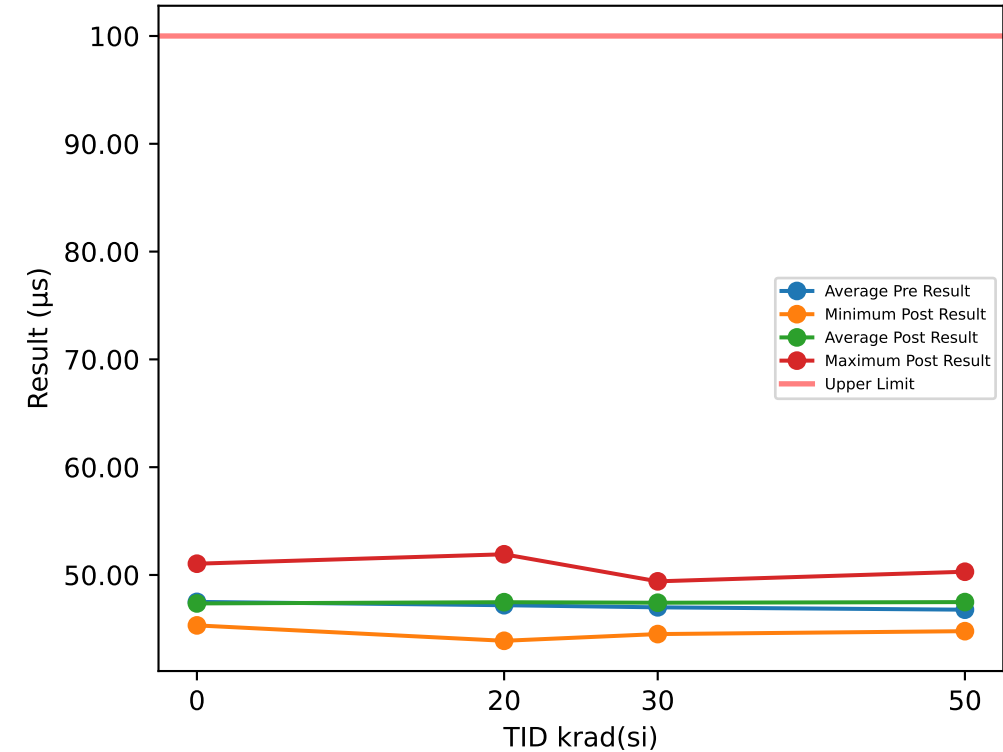
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	191.58	199.62	8.0452
516	0	CORRELATION	190.82	195.33	4.5087
721	0	CORRELATION	190.1	189.12	-0.9818
723	0	CORRELATION	193.27	188.59	-4.6843
729	0	CORRELATION	190.98	192.15	1.1668
990	20	Unbiased	190.52	192.53	2.009
991	20	Unbiased	187.31	193.48	6.1672
992	20	Unbiased	189.52	185.47	-4.0514
993	20	Unbiased	188.33	192.25	3.9176
994	20	Unbiased	186.26	186.78	0.5158
995	20	Biased	185.14	189.76	4.6161
996	20	Biased	193.72	194.48	0.7552
997	20	Biased	196.74	198.89	2.147
998	20	Biased	195.12	194.83	-0.2834
999	20	Biased	184.58	192.47	7.89
1020	30	Unbiased	194.92	195.83	0.906
1021	30	Unbiased	195.4	196.91	1.5081
1022	30	Unbiased	186.82	192.66	5.8374
1023	30	Unbiased	188.61	194.53	5.9169
1024	30	Unbiased	192.53	193.31	0.7842
1025	30	Biased	188.99	195.33	6.3392
1026	30	Biased	190.05	191.81	1.7626
1027	30	Biased	192.72	192.71	-0.005
1028	30	Biased	185.01	191.55	6.5435
1029	30	Biased	187.3	185.99	-1.3051
1030	50	Unbiased	180.12	191.15	11.027
1031	50	Unbiased	191.97	193.61	1.6383
1032	50	Unbiased	191.32	198.12	6.8014
1033	50	Unbiased	188.86	190.39	1.5253
1034	50	Unbiased	183.1	188.63	5.5306
1035	50	Biased-84Hr-Anneal	197.44	196.28	-1.1527
1036	50	Biased-84Hr-Anneal	192.72	192.97	0.2471
1037	50	Biased-84Hr-Anneal	197.1	196.75	-0.3492
1038	50	Biased-84Hr-Anneal	200.35	198.41	-1.9433
1039	50	Biased-84Hr-Anneal	196.59	196.19	-0.4003

Test Statistics (ns)

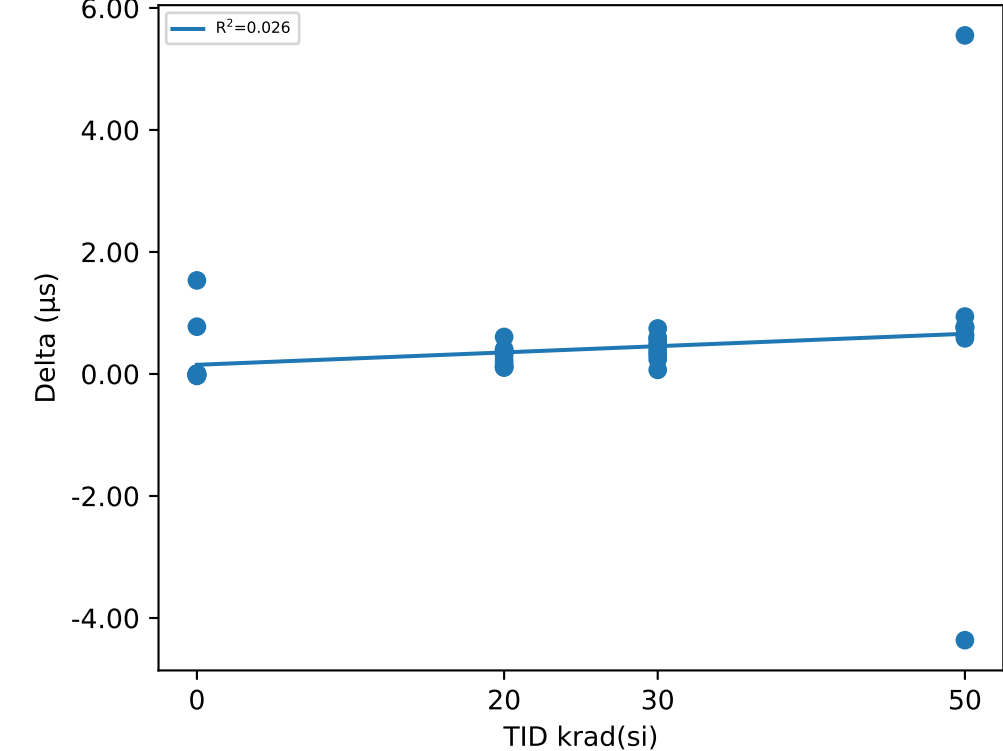
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	190.1	191.35	193.27	1.1971	188.59	192.96	199.62	4.5957	-4.6843	1.6109	8.0452	4.9078
20	184.58	189.73	196.74	4.2447	185.47	192.09	198.89	3.9331	-4.0514	2.3683	7.89	3.4453
30	185.01	190.23	195.4	3.5272	185.99	193.06	196.91	3.0533	-1.3051	2.8288	6.5435	2.9924
50	180.12	191.96	200.35	6.4765	188.63	194.25	198.41	3.4086	-1.9433	2.2924	11.027	4.1679

Device Test: 24.32 TIMING|DELAY/EN/4.5//511k//@T_EN_DELAY

TID vs Result Stats



TID vs Post - Pre Exposure Delta



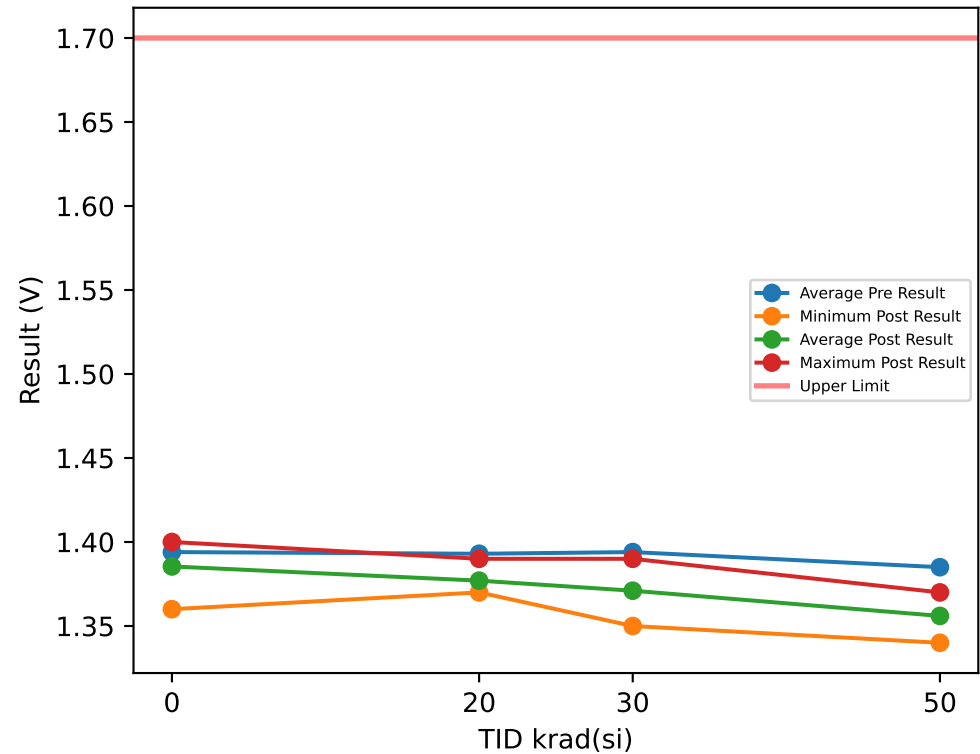
Test Results (Upper Limit = 100.0 (µs))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	49.511	51.045	1.5338
516	0	CORRELATION	48.905	49.681	0.7751
721	0	CORRELATION	45.355	45.323	-0.0319
723	0	CORRELATION	45.603	45.583	-0.0206
729	0	CORRELATION	48.141	48.144	0.0034
990	20	Unbiased	51.611	51.919	0.3087
991	20	Unbiased	46.38	46.987	0.6071
992	20	Unbiased	44.015	44.125	0.11
993	20	Unbiased	48.83	48.953	0.1229
994	20	Unbiased	47.245	47.595	0.3502
995	20	Biased	46.116	46.511	0.3953
996	20	Biased	48.844	48.95	0.1056
997	20	Biased	47.487	47.893	0.4059
998	20	Biased	47.698	47.923	0.2243
999	20	Biased	43.72	43.893	0.1737
1020	30	Unbiased	44.984	45.454	0.4697
1021	30	Unbiased	49.099	49.409	0.3105
1022	30	Unbiased	46.527	46.594	0.0672
1023	30	Unbiased	45.343	45.74	0.3979
1024	30	Unbiased	47.723	48.307	0.5844
1025	30	Biased	47.829	48.351	0.5215
1026	30	Biased	48.086	48.682	0.5958
1027	30	Biased	44.17	44.517	0.3469
1028	30	Biased	48.157	48.903	0.7466
1029	30	Biased	48.053	48.294	0.2412
1030	50	Unbiased	48.181	48.956	0.7756
1031	50	Unbiased	49.359	50.3	0.9417
1032	50	Unbiased	45.89	46.663	0.7724
1033	50	Unbiased	46.174	46.939	0.7648
1034	50	Unbiased	45.783	46.53	0.7471
1035	50	Biased-84Hr-Anneal	45.055	45.639	0.5842
1036	50	Biased-84Hr-Anneal	47.087	47.727	0.6404
1037	50	Biased-84Hr-Anneal	46.891	47.526	0.6352
1038	50	Biased-84Hr-Anneal	49.15	44.786	-4.3638
1039	50	Biased-84Hr-Anneal	44.224	49.774	5.55

Test Statistics (µs)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.355	47.503	49.511	1.9124	45.323	47.955	51.045	2.5058	-0.0319	0.45196	1.5338	0.69524
20	43.72	47.195	51.611	2.3393	43.893	47.475	51.919	2.3504	0.1056	0.28037	0.6071	0.1634
30	44.17	46.997	49.099	1.6427	44.517	47.425	49.409	1.6985	0.0672	0.42817	0.7466	0.19747
50	44.224	46.779	49.359	1.6994	44.786	47.484	50.3	1.763	-4.3638	0.70476	5.55	2.3395

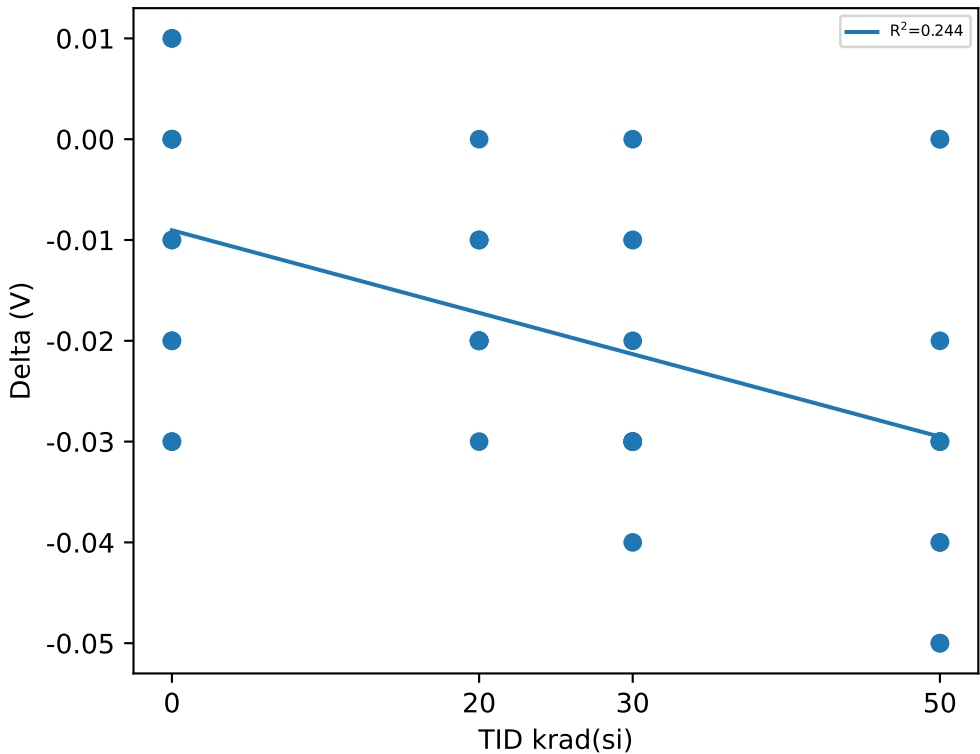
TID vs Result Stats



Test Results (Upper Limit = 1.7 (V))

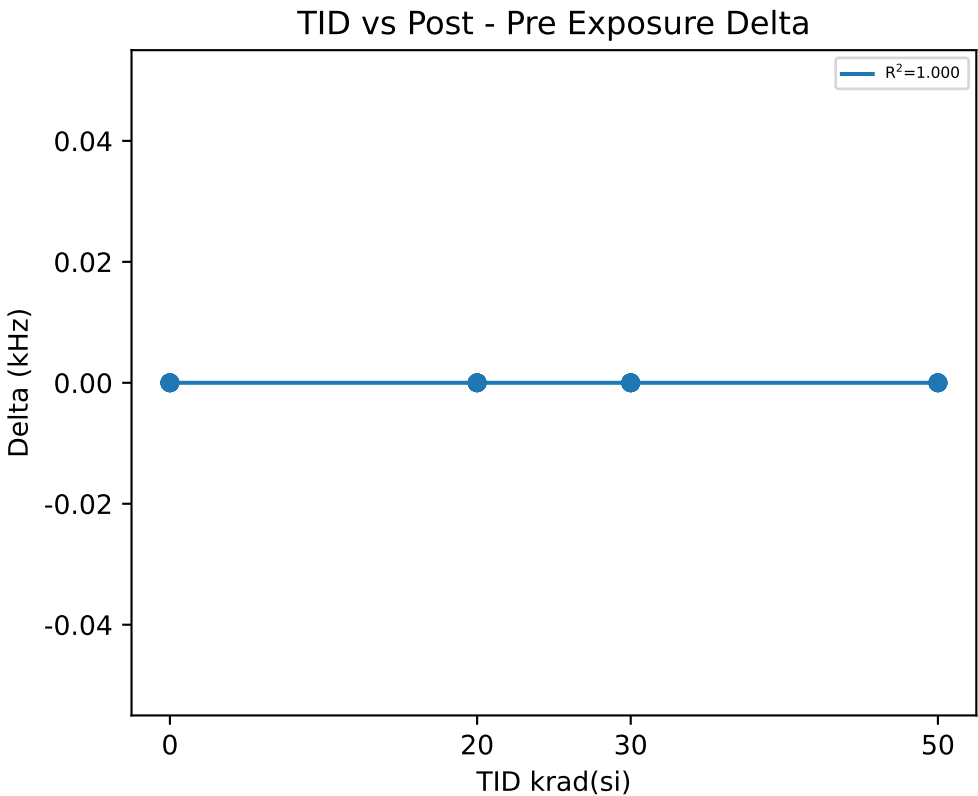
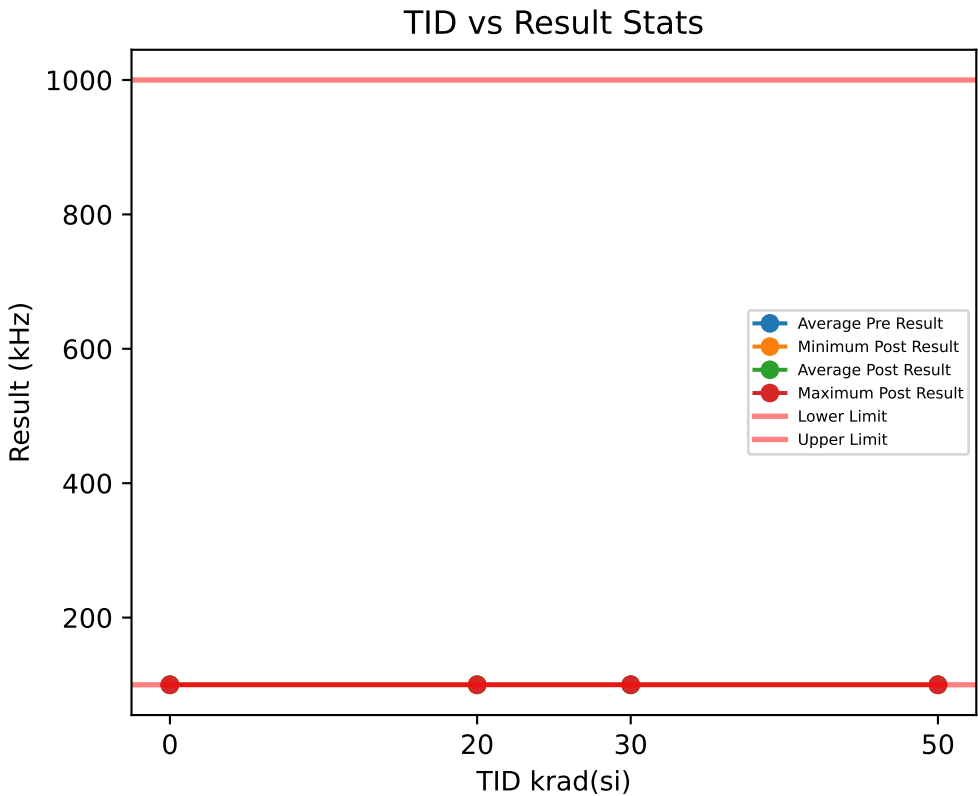
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.4	1.37	-0.03
516	0	CORRELATION	1.39	1.36	-0.03
721	0	CORRELATION	1.39	1.39	0
723	0	CORRELATION	1.4	1.39	-0.01
729	0	CORRELATION	1.39	1.39	0
990	20	Unbiased	1.4	1.38	-0.02
991	20	Unbiased	1.39	1.38	-0.01
992	20	Unbiased	1.39	1.38	-0.01
993	20	Unbiased	1.4	1.39	-0.01
994	20	Unbiased	1.39	1.39	0
995	20	Biased	1.39	1.37	-0.02
996	20	Biased	1.39	1.37	-0.02
997	20	Biased	1.39	1.37	-0.02
998	20	Biased	1.4	1.37	-0.03
999	20	Biased	1.39	1.37	-0.02
1020	30	Unbiased	1.4	1.37	-0.03
1021	30	Unbiased	1.39	1.36	-0.03
1022	30	Unbiased	1.39	1.36	-0.03
1023	30	Unbiased	1.39	1.36	-0.03
1024	30	Unbiased	1.39	1.35	-0.04
1025	30	Biased	1.4	1.39	-0.01
1026	30	Biased	1.4	1.38	-0.02
1027	30	Biased	1.4	1.37	-0.03
1028	30	Biased	1.4	1.39	-0.01
1029	30	Biased	1.38	1.38	0
1030	50	Unbiased	1.38	1.34	-0.04
1031	50	Unbiased	1.39	1.34	-0.05
1032	50	Unbiased	1.39	1.34	-0.05
1033	50	Unbiased	1.4	1.37	-0.03
1034	50	Unbiased	1.39	1.36	-0.03
1035	50	Biased-84Hr-Anneal	1.4	1.37	-0.03
1036	50	Biased-84Hr-Anneal	1.37	1.35	-0.02
1037	50	Biased-84Hr-Anneal	1.37	1.37	0
1038	50	Biased-84Hr-Anneal	1.37	1.37	0
1039	50	Biased-84Hr-Anneal	1.39	1.35	-0.04

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	1.39	1.394	1.4	0.0054772	1.36	1.38	1.39	0.014142	-0.03	-0.014	0	0.015166
20	1.39	1.393	1.4	0.0048305	1.37	1.377	1.39	0.0082327	-0.03	-0.016	0	0.0084327
30	1.38	1.394	1.4	0.0069921	1.35	1.371	1.39	0.013703	-0.04	-0.023	0	0.012517
50	1.37	1.385	1.4	0.011785	1.34	1.356	1.37	0.013499	-0.05	-0.029	0	0.01792



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

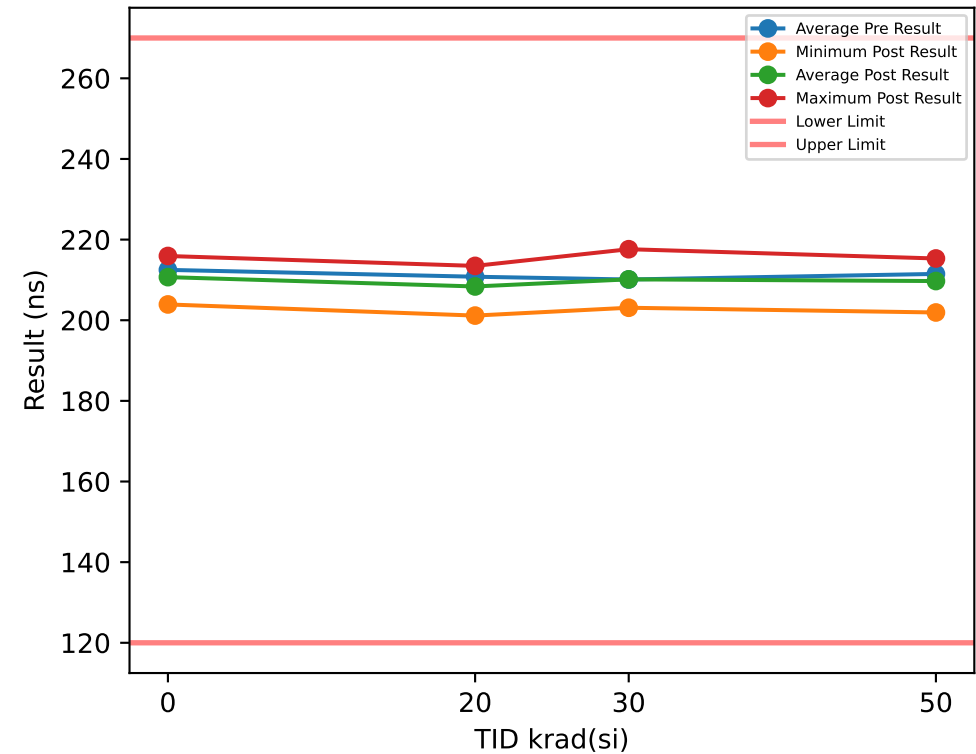
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	100	100	0
516	0	CORRELATION	100	100	0
721	0	CORRELATION	100	100	0
723	0	CORRELATION	100	100	0
729	0	CORRELATION	100	100	0
990	20	Unbiased	100	100	0
991	20	Unbiased	100	100	0
992	20	Unbiased	100	100	0
993	20	Unbiased	100	100	0
994	20	Unbiased	100	100	0
995	20	Biased	100	100	0
996	20	Biased	100	100	0
997	20	Biased	100	100	0
998	20	Biased	100	100	0
999	20	Biased	100	100	0
1020	30	Unbiased	100	100	0
1021	30	Unbiased	100	100	0
1022	30	Unbiased	100	100	0
1023	30	Unbiased	100	100	0
1024	30	Unbiased	100	100	0
1025	30	Biased	100	100	0
1026	30	Biased	100	100	0
1027	30	Biased	100	100	0
1028	30	Biased	100	100	0
1029	30	Biased	100	100	0
1030	50	Unbiased	100	100	0
1031	50	Unbiased	100	100	0
1032	50	Unbiased	100	100	0
1033	50	Unbiased	100	100	0
1034	50	Unbiased	100	100	0
1035	50	Biased-84Hr-Anneal	100	100	0
1036	50	Biased-84Hr-Anneal	100	100	0
1037	50	Biased-84Hr-Anneal	100	100	0
1038	50	Biased-84Hr-Anneal	100	100	0
1039	50	Biased-84Hr-Anneal	100	100	0

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	100	100	100	0	0	0	0	0
20	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 24.48 TIMING|DELAY/SYNC1/5//OPEN/4011/@SYNC1_SW_DELAY

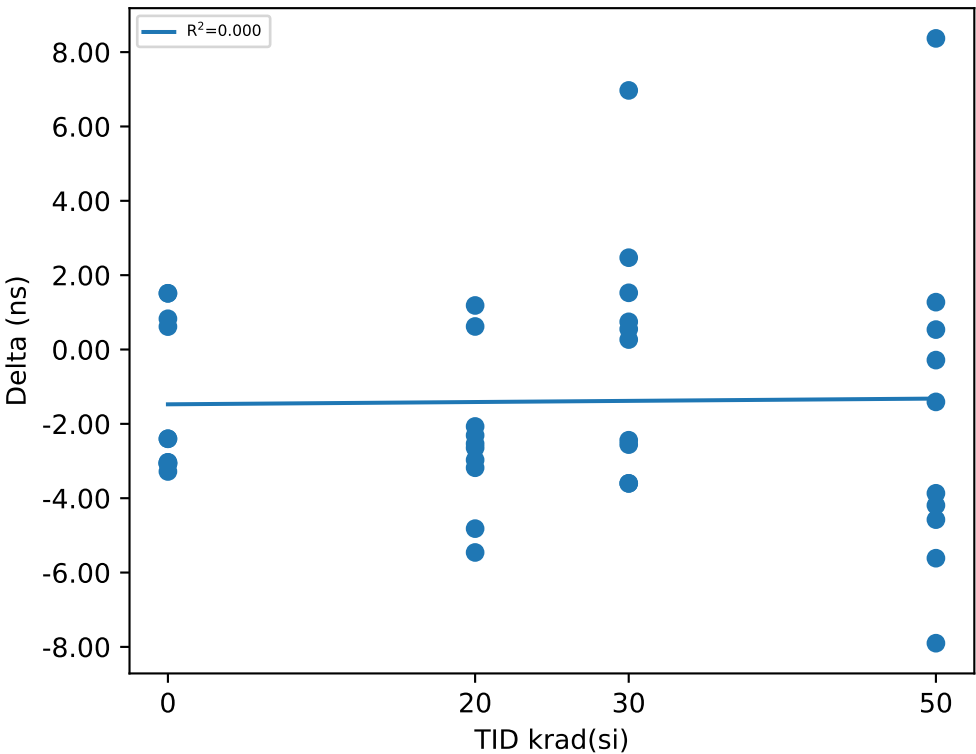
TID vs Result Stats



Test Results (Lower Limit = 120.0, Upper Limit = 270.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	215.32	215.93	0.6158
516	0	CORRELATION	210.48	207.2	-3.2811
721	0	CORRELATION	212.98	213.81	0.8271
723	0	CORRELATION	206.95	208.47	1.5122
729	0	CORRELATION	216.72	214.31	-2.4012
990	20	Unbiased	210.7	208.39	-2.31
991	20	Unbiased	206.61	201.16	-5.4595
992	20	Unbiased	203.97	205.16	1.185
993	20	Unbiased	212.86	213.48	0.6196
994	20	Unbiased	209.01	206.94	-2.0699
995	20	Biased	214.03	211.06	-2.9704
996	20	Biased	211.14	208.6	-2.5346
997	20	Biased	216.45	211.64	-4.8184
998	20	Biased	210.13	207.49	-2.6448
999	20	Biased	213.01	209.83	-3.1807
1020	30	Unbiased	208.82	215.79	6.9699
1021	30	Unbiased	217.07	217.62	0.5499
1022	30	Unbiased	212.8	209.2	-3.6011
1023	30	Unbiased	209.51	207.07	-2.4403
1024	30	Unbiased	209.56	205.96	-3.6007
1025	30	Biased	206.4	207.14	0.7447
1026	30	Biased	213.14	215.61	2.47
1027	30	Biased	209.07	209.34	0.2675
1028	30	Biased	213.12	210.57	-2.5585
1029	30	Biased	201.57	203.1	1.5254
1030	50	Unbiased	207.54	201.92	-5.6139
1031	50	Unbiased	209.7	208.29	-1.4093
1032	50	Unbiased	210.48	206.29	-4.1916
1033	50	Unbiased	213.93	210.06	-3.8677
1034	50	Unbiased	213.96	209.38	-4.5764
1035	50	Biased-84Hr-Anneal	214.04	215.32	1.274
1036	50	Biased-84Hr-Anneal	210.79	211.33	0.5359
1037	50	Biased-84Hr-Anneal	211.46	211.17	-0.2851
1038	50	Biased-84Hr-Anneal	206.32	214.69	8.3693
1039	50	Biased-84Hr-Anneal	216.66	208.76	-7.9004

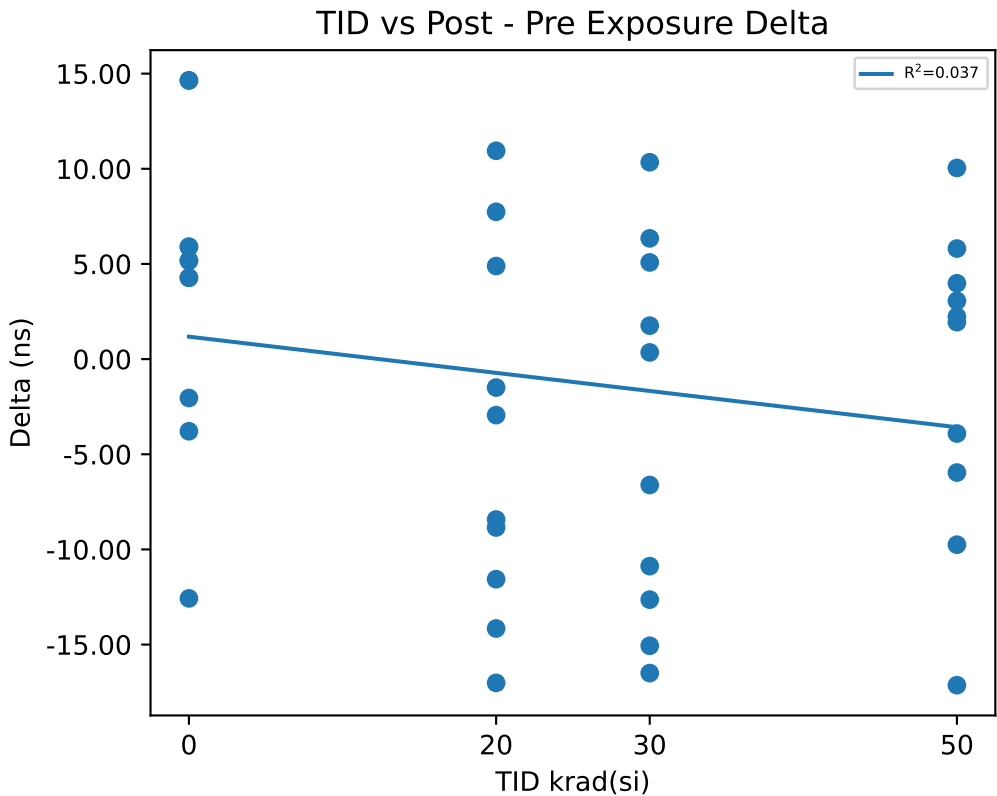
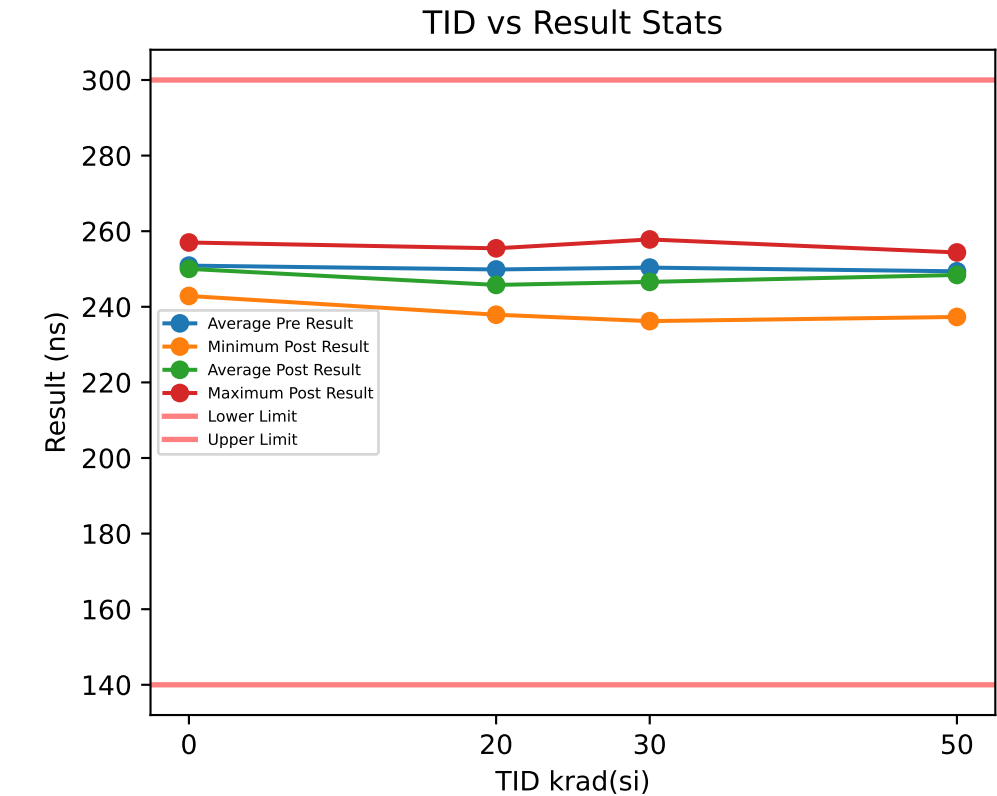
TID vs Post - Pre Exposure Delta



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	206.95	212.49	216.72	3.8975	207.2	211.94	215.93	3.8593	-3.2811	-0.54544	1.5122	2.1444
20	203.97	210.79	216.45	3.6427	201.16	208.37	213.48	3.5179	-5.4595	-2.4184	1.185	2.0631
30	201.57	210.11	217.07	4.2688	203.1	210.14	217.62	4.7716	-3.6011	0.03268	6.9699	3.2721
50	206.32	211.49	216.66	3.2024	201.92	209.72	215.32	3.8937	-7.9004	-1.7665	8.3693	4.5974

Device Test: 24.49 TIMING|DELAY/SYNC1/5//OPEN/4011/@SYNC1_SW_DELAY_INV



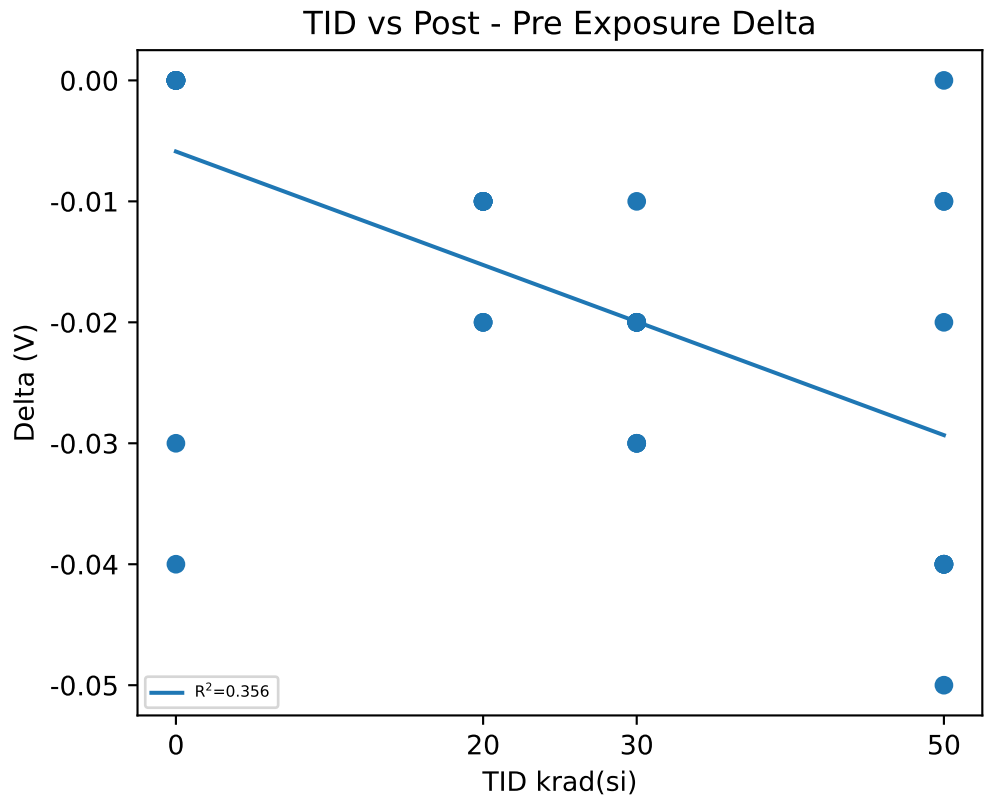
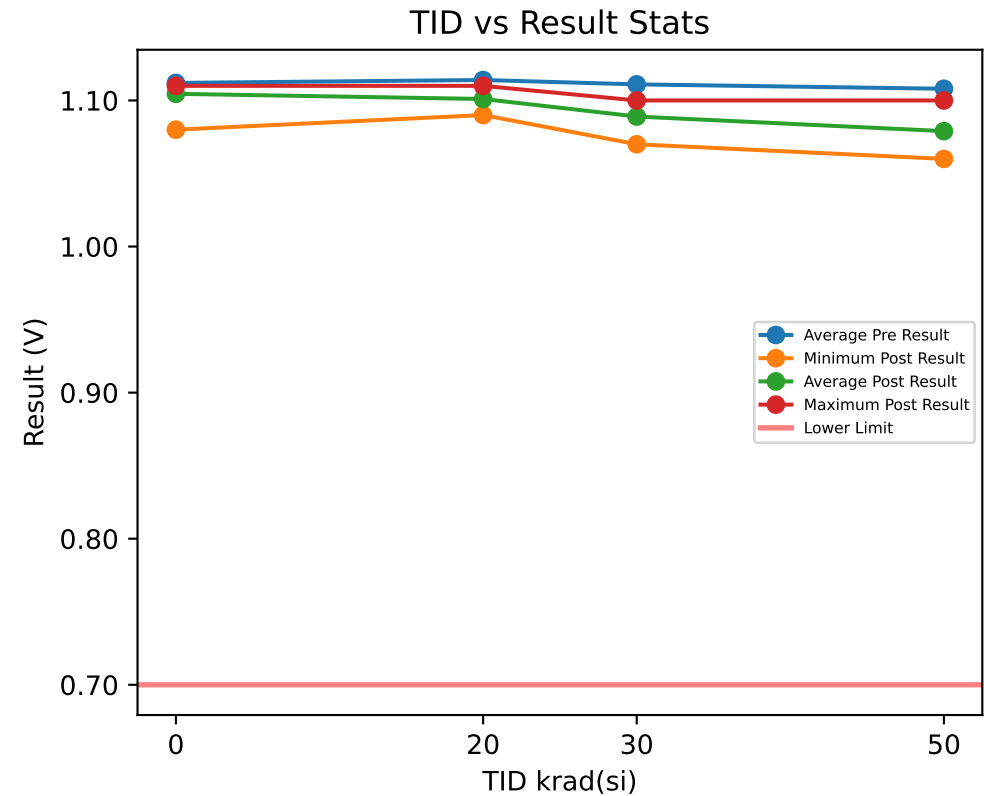
Test Results (Lower Limit = 140.0, Upper Limit = 300.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	259.06	257.01	-2.0437
516	0	CORRELATION	254.89	251.1	-3.7915
721	0	CORRELATION	255.75	243.17	-12.574
723	0	CORRELATION	237.69	252.33	14.645
729	0	CORRELATION	247.09	251.37	4.276
990	20	Unbiased	239.4	237.9	-1.4952
991	20	Unbiased	249.95	241.1	-8.8467
992	20	Unbiased	244.64	249.53	4.8901
993	20	Unbiased	256.46	242.3	-14.155
994	20	Unbiased	239.83	247.57	7.7393
995	20	Biased	258.41	255.47	-2.9429
996	20	Biased	251.74	240.18	-11.564
997	20	Biased	260.13	251.7	-8.4296
998	20	Biased	240.7	251.65	10.946
999	20	Biased	257.48	240.46	-17.014
1020	30	Unbiased	247.47	257.82	10.344
1021	30	Unbiased	259.95	247.31	-12.639
1022	30	Unbiased	257.43	246.55	-10.879
1023	30	Unbiased	253.99	237.49	-16.499
1024	30	Unbiased	240.01	246.36	6.3441
1025	30	Biased	251.28	236.21	-15.063
1026	30	Biased	255.61	257.37	1.7579
1027	30	Biased	239.09	239.44	0.3515
1028	30	Biased	256.69	250.08	-6.6152
1029	30	Biased	242.15	247.23	5.0789
1030	50	Unbiased	252.02	242.26	-9.7522
1031	50	Unbiased	249.66	252.72	3.0613
1032	50	Unbiased	254.45	237.31	-17.134
1033	50	Unbiased	244.39	250.2	5.8087
1034	50	Unbiased	258.16	254.25	-3.9101
1035	50	Biased-84Hr-Anneal	242.28	244.51	2.2346
1036	50	Biased-84Hr-Anneal	248.87	252.85	3.983
1037	50	Biased-84Hr-Anneal	240.55	242.49	1.9406
1038	50	Biased-84Hr-Anneal	244.33	254.38	10.045
1039	50	Biased-84Hr-Anneal	259.19	253.23	-5.9612

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	237.69	250.9	259.06	8.588	243.17	251	257.01	4.9838	-12.574	0.10236	14.645	10.116
20	239.4	249.87	260.13	8.1973	237.9	245.79	255.47	6.1131	-17.014	-4.0872	10.946	9.5472
30	239.09	250.37	259.95	7.6988	236.21	246.59	257.82	7.4308	-16.499	-3.7818	10.344	9.7422
50	240.55	249.39	259.19	6.5413	237.31	248.42	254.38	6.1964	-17.134	-0.96845	10.045	8.1566

Device Test: 24.5 THRESHOLD|FALL/SYNC1/4.5//OPEN//@SYNC1_VIL

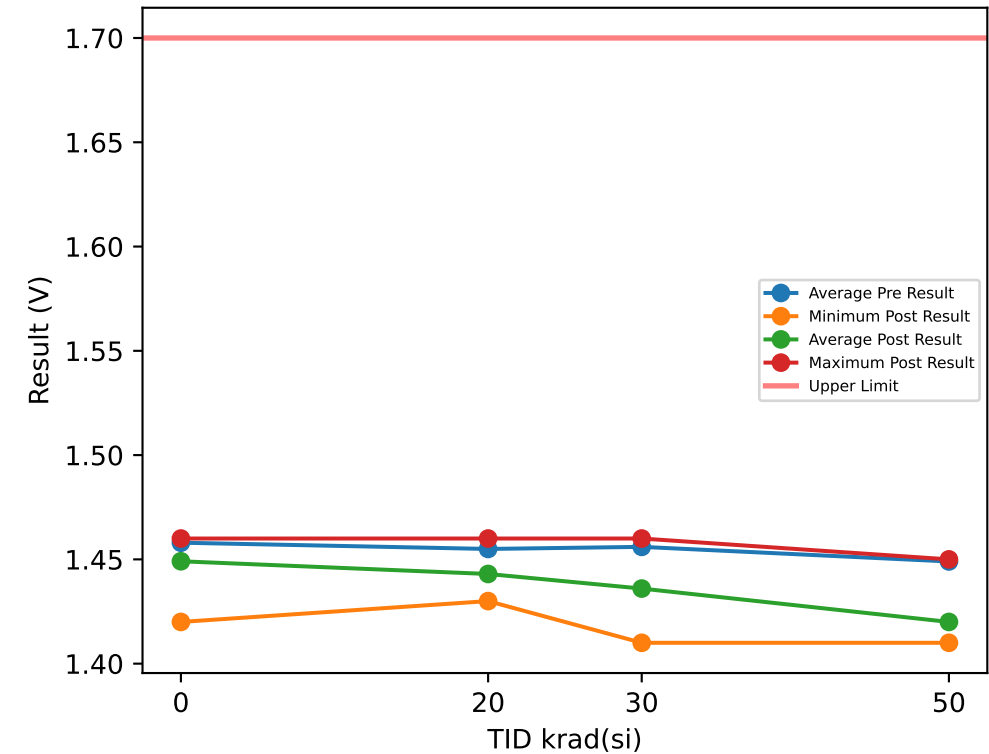


Test Results (Lower Limit = 0.7 (V))					
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.12	1.08	-0.04
516	0	CORRELATION	1.11	1.08	-0.03
721	0	CORRELATION	1.11	1.11	0
723	0	CORRELATION	1.11	1.11	0
729	0	CORRELATION	1.11	1.11	0
990	20	Unbiased	1.12	1.11	-0.01
991	20	Unbiased	1.12	1.11	-0.01
992	20	Unbiased	1.11	1.1	-0.01
993	20	Unbiased	1.12	1.11	-0.01
994	20	Unbiased	1.11	1.1	-0.01
995	20	Biased	1.12	1.1	-0.02
996	20	Biased	1.11	1.1	-0.01
997	20	Biased	1.11	1.09	-0.02
998	20	Biased	1.12	1.1	-0.02
999	20	Biased	1.1	1.09	-0.01
1020	30	Unbiased	1.12	1.09	-0.03
1021	30	Unbiased	1.1	1.07	-0.03
1022	30	Unbiased	1.11	1.08	-0.03
1023	30	Unbiased	1.11	1.09	-0.02
1024	30	Unbiased	1.1	1.08	-0.02
1025	30	Biased	1.12	1.1	-0.02
1026	30	Biased	1.12	1.1	-0.02
1027	30	Biased	1.11	1.09	-0.02
1028	30	Biased	1.12	1.1	-0.02
1029	30	Biased	1.1	1.09	-0.01
1030	50	Unbiased	1.11	1.07	-0.04
1031	50	Unbiased	1.11	1.07	-0.04
1032	50	Unbiased	1.11	1.06	-0.05
1033	50	Unbiased	1.12	1.08	-0.04
1034	50	Unbiased	1.11	1.07	-0.04
1035	50	Biased-84Hr-Anneal	1.12	1.1	-0.02
1036	50	Biased-84Hr-Anneal	1.09	1.08	-0.01
1037	50	Biased-84Hr-Anneal	1.09	1.08	-0.01
1038	50	Biased-84Hr-Anneal	1.1	1.1	0
1039	50	Biased-84Hr-Anneal	1.12	1.08	-0.04

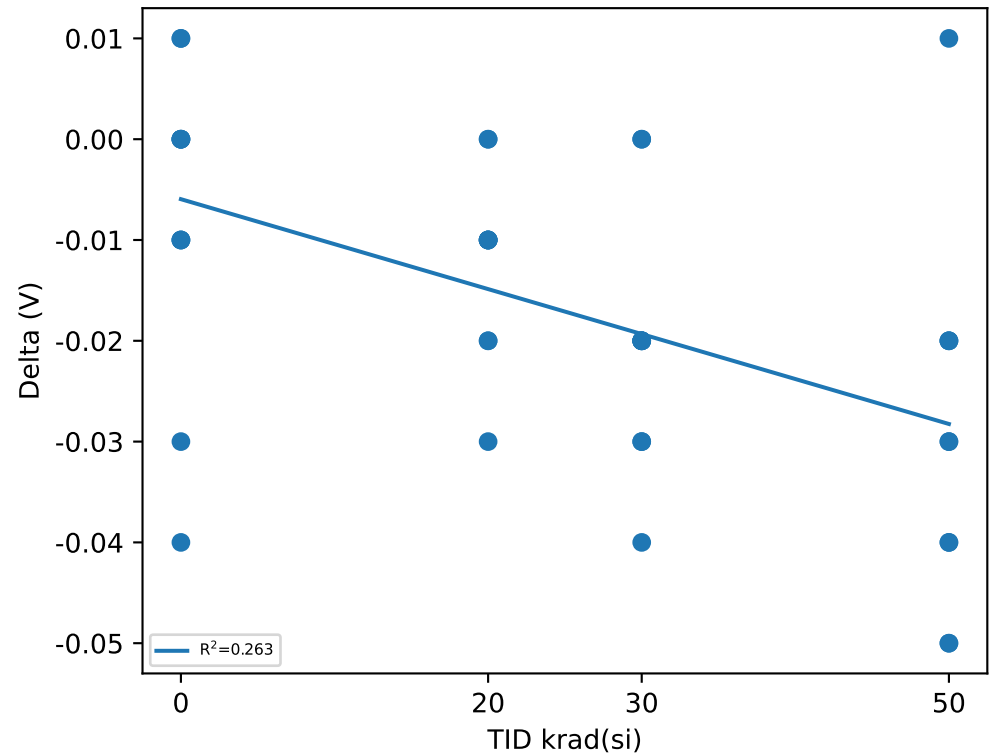
Test Statistics (V)

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	1.11	1.112	1.12	0.0044721	1.08	1.098	1.11	0.016432	-0.04	-0.014	0	0.019494
20	1.1	1.114	1.12	0.0069921	1.09	1.101	1.11	0.0073786	-0.02	-0.013	-0.01	0.0048305
30	1.1	1.111	1.12	0.008756	1.07	1.089	1.1	0.0099443	-0.03	-0.022	-0.01	0.0063246
50	1.09	1.108	1.12	0.011353	1.06	1.079	1.1	0.012867	-0.05	-0.029	0	0.017288

TID vs Result Stats



TID vs Post - Pre Exposure Delta



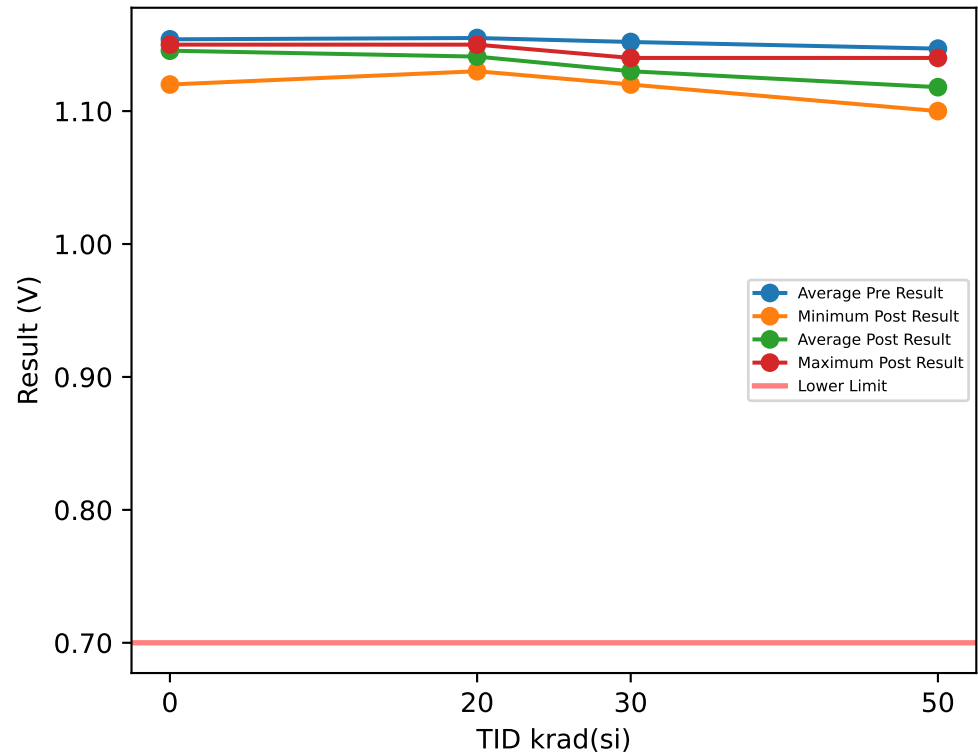
Test Results (Upper Limit = 1.7 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.46	1.43	-0.03
516	0	CORRELATION	1.46	1.42	-0.04
721	0	CORRELATION	1.46	1.45	-0.01
723	0	CORRELATION	1.45	1.46	0.01
729	0	CORRELATION	1.46	1.46	0
990	20	Unbiased	1.46	1.46	0
991	20	Unbiased	1.46	1.45	-0.01
992	20	Unbiased	1.44	1.44	0
993	20	Unbiased	1.46	1.45	-0.01
994	20	Unbiased	1.45	1.44	-0.01
995	20	Biased	1.46	1.45	-0.01
996	20	Biased	1.45	1.43	-0.02
997	20	Biased	1.45	1.43	-0.02
998	20	Biased	1.46	1.43	-0.03
999	20	Biased	1.46	1.45	-0.01
1020	30	Unbiased	1.47	1.44	-0.03
1021	30	Unbiased	1.45	1.43	-0.02
1022	30	Unbiased	1.45	1.43	-0.02
1023	30	Unbiased	1.45	1.42	-0.03
1024	30	Unbiased	1.45	1.41	-0.04
1025	30	Biased	1.47	1.45	-0.02
1026	30	Biased	1.47	1.45	-0.02
1027	30	Biased	1.45	1.43	-0.02
1028	30	Biased	1.46	1.46	0
1029	30	Biased	1.44	1.44	0
1030	50	Unbiased	1.45	1.41	-0.04
1031	50	Unbiased	1.45	1.42	-0.03
1032	50	Unbiased	1.45	1.41	-0.04
1033	50	Unbiased	1.47	1.42	-0.05
1034	50	Unbiased	1.46	1.41	-0.05
1035	50	Biased-84Hr-Anneal	1.45	1.43	-0.02
1036	50	Biased-84Hr-Anneal	1.43	1.41	-0.02
1037	50	Biased-84Hr-Anneal	1.44	1.41	-0.03
1038	50	Biased-84Hr-Anneal	1.44	1.45	0.01
1039	50	Biased-84Hr-Anneal	1.45	1.43	-0.02

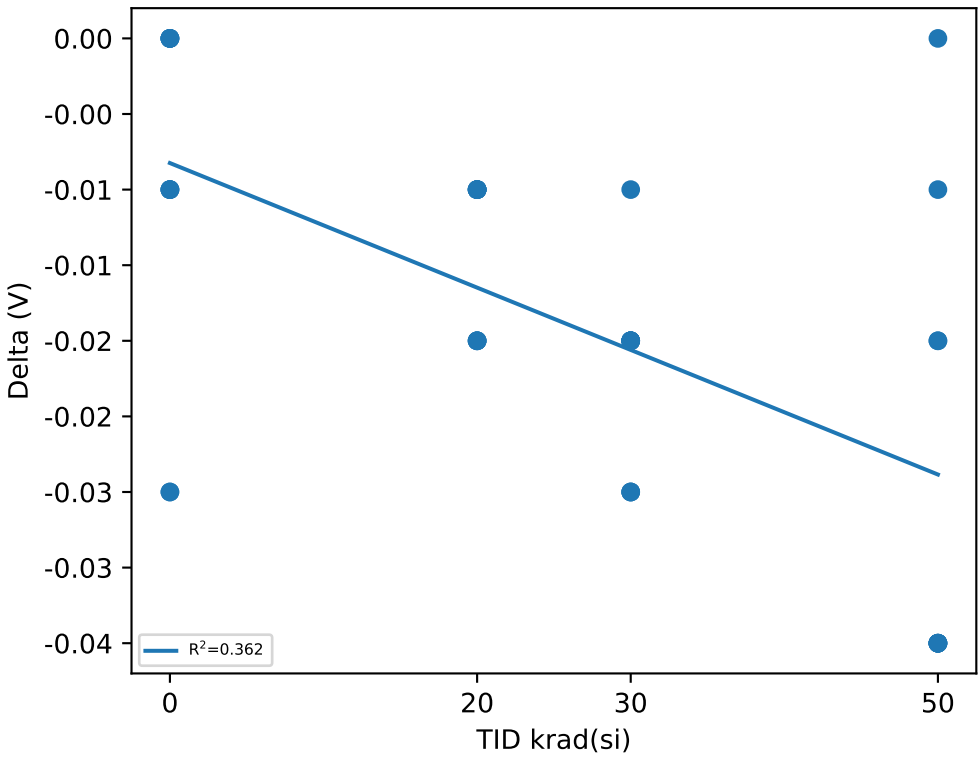
Test Statistics (V)

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	1.45	1.458	1.46	0.0044721	1.42	1.444	1.46	0.018166	-0.04	-0.014	0.01	0.020736
20	1.44	1.455	1.46	0.0070711	1.43	1.443	1.46	0.010593	-0.03	-0.012	0	0.0091894
30	1.44	1.456	1.47	0.01075	1.41	1.436	1.46	0.015055	-0.04	-0.02	0	0.012472
50	1.43	1.449	1.47	0.011005	1.41	1.42	1.45	0.013333	-0.05	-0.029	0.01	0.01792

TID vs Result Stats



TID vs Post - Pre Exposure Delta



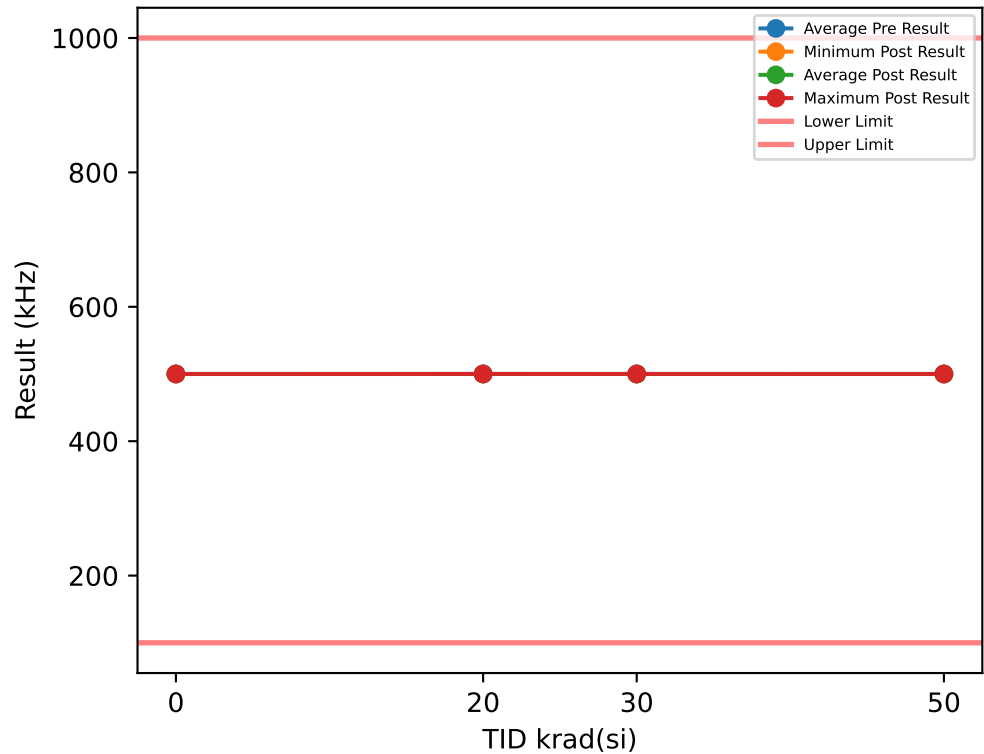
Test Results (Lower Limit = 0.7 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.16	1.13	-0.03
516	0	CORRELATION	1.15	1.12	-0.03
721	0	CORRELATION	1.15	1.15	0
723	0	CORRELATION	1.15	1.15	0
729	0	CORRELATION	1.16	1.15	-0.01
990	20	Unbiased	1.16	1.15	-0.01
991	20	Unbiased	1.16	1.15	-0.01
992	20	Unbiased	1.15	1.14	-0.01
993	20	Unbiased	1.16	1.15	-0.01
994	20	Unbiased	1.15	1.14	-0.01
995	20	Biased	1.16	1.14	-0.02
996	20	Biased	1.15	1.14	-0.01
997	20	Biased	1.15	1.13	-0.02
998	20	Biased	1.16	1.14	-0.02
999	20	Biased	1.15	1.13	-0.02
1020	30	Unbiased	1.16	1.13	-0.03
1021	30	Unbiased	1.14	1.12	-0.02
1022	30	Unbiased	1.15	1.12	-0.03
1023	30	Unbiased	1.15	1.13	-0.02
1024	30	Unbiased	1.15	1.12	-0.03
1025	30	Biased	1.16	1.14	-0.02
1026	30	Biased	1.16	1.14	-0.02
1027	30	Biased	1.15	1.13	-0.02
1028	30	Biased	1.16	1.14	-0.02
1029	30	Biased	1.14	1.13	-0.01
1030	50	Unbiased	1.15	1.11	-0.04
1031	50	Unbiased	1.15	1.11	-0.04
1032	50	Unbiased	1.14	1.1	-0.04
1033	50	Unbiased	1.16	1.12	-0.04
1034	50	Unbiased	1.15	1.11	-0.04
1035	50	Biased-84Hr-Anneal	1.16	1.14	-0.02
1036	50	Biased-84Hr-Anneal	1.13	1.11	-0.02
1037	50	Biased-84Hr-Anneal	1.13	1.12	-0.01
1038	50	Biased-84Hr-Anneal	1.14	1.14	0
1039	50	Biased-84Hr-Anneal	1.16	1.12	-0.04

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	1.15	1.154	1.16	0.0054772	1.12	1.14	1.15	0.014142	-0.03	-0.014	0	0.015166
20	1.15	1.155	1.16	0.0052705	1.13	1.141	1.15	0.0073786	-0.02	-0.014	-0.01	0.005164
30	1.14	1.152	1.16	0.0078881	1.12	1.13	1.14	0.008165	-0.03	-0.022	-0.01	0.0063246
50	1.13	1.147	1.16	0.011595	1.1	1.118	1.14	0.013166	-0.04	-0.029	0	0.015239

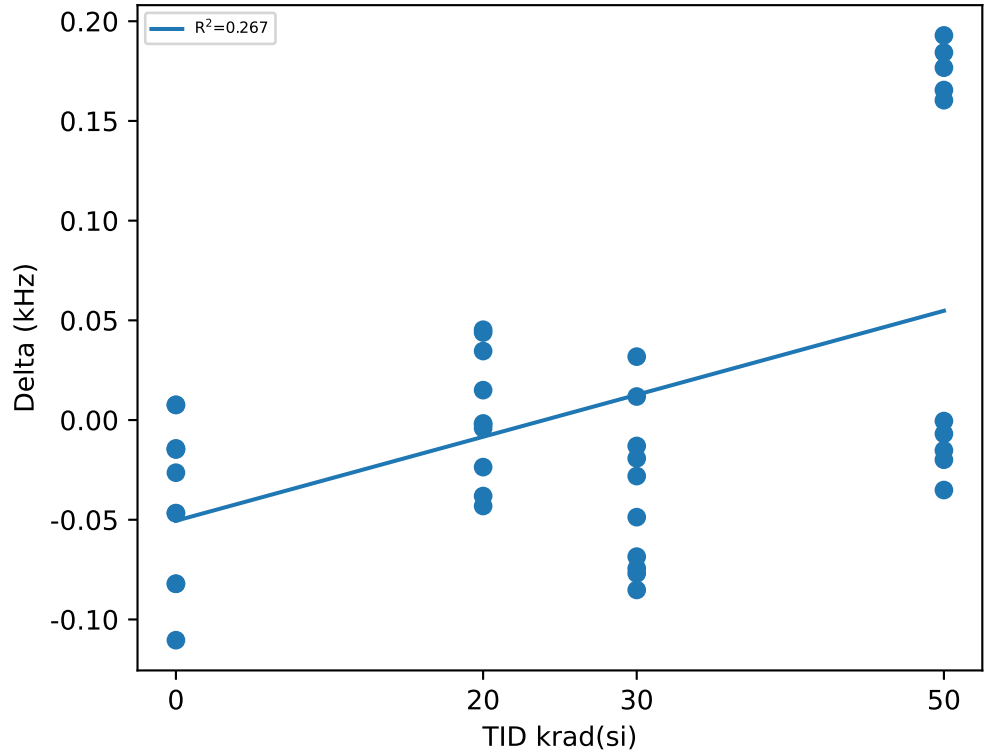
TID vs Result Stats



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

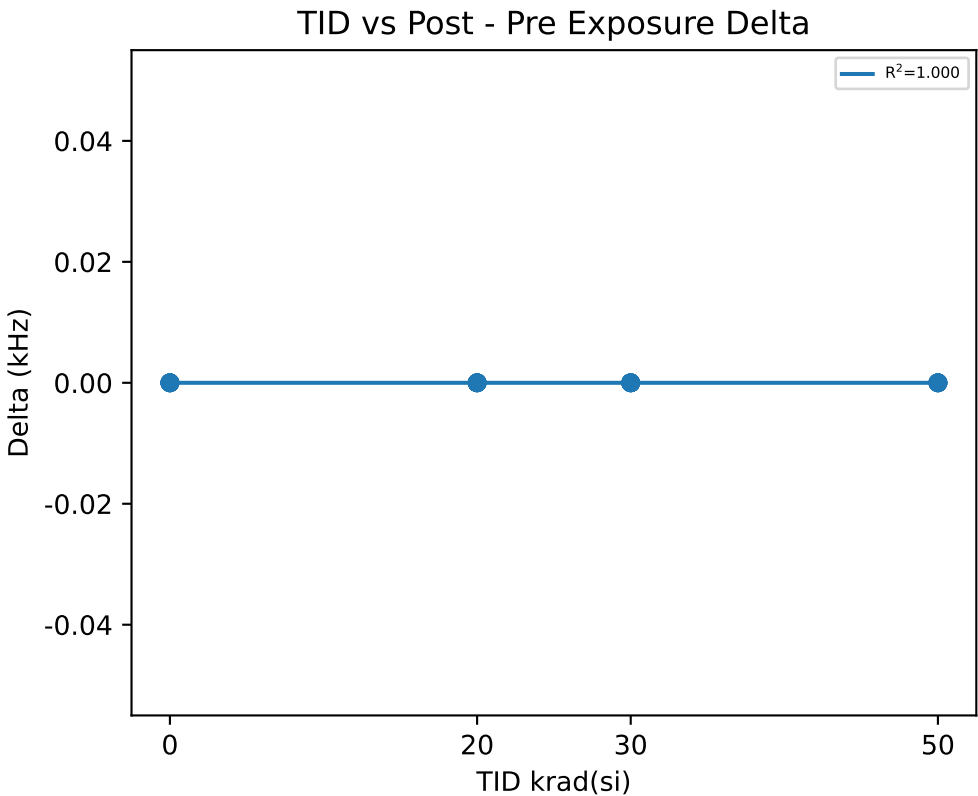
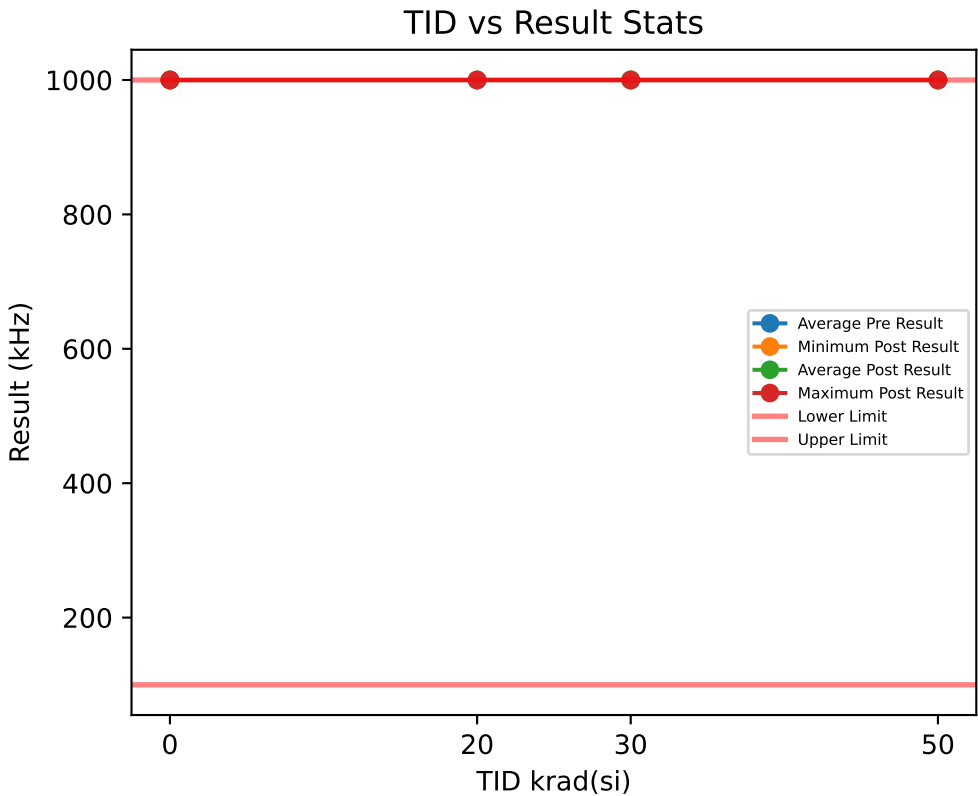
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	500.05	500.04	-0.0142
516	0	CORRELATION	500.06	500.03	-0.0264
721	0	CORRELATION	500.05	499.94	-0.1104
723	0	CORRELATION	500.03	499.94	-0.0821
729	0	CORRELATION	500.02	499.97	-0.0467
990	20	Unbiased	500.01	500.01	-0.0022
991	20	Unbiased	500.03	500.08	0.0453
992	20	Unbiased	500.04	500.06	0.015
993	20	Unbiased	500.06	500.02	-0.0431
994	20	Unbiased	500.02	500.06	0.0439
995	20	Biased	500.07	500.04	-0.0236
996	20	Biased	500.03	500.02	-0.0041
997	20	Biased	500.04	500.04	-0.0017
998	20	Biased	500.01	500.04	0.0346
999	20	Biased	500.05	500.01	-0.0381
1020	30	Unbiased	500.05	499.97	-0.0744
1021	30	Unbiased	500.03	499.95	-0.0852
1022	30	Unbiased	500.05	499.98	-0.0685
1023	30	Unbiased	500.05	500.06	0.0118
1024	30	Unbiased	500.02	500.06	0.0318
1025	30	Biased	500.02	499.94	-0.0769
1026	30	Biased	500.03	499.98	-0.0487
1027	30	Biased	499.99	499.98	-0.013
1028	30	Biased	500.05	500.03	-0.0192
1029	30	Biased	500.04	500.02	-0.0281
1030	50	Unbiased	500.05	500.04	-0.0069
1031	50	Unbiased	500.05	500.03	-0.0199
1032	50	Unbiased	500.04	500.03	-0.0152
1033	50	Unbiased	500.04	500.04	-0.0005
1034	50	Unbiased	500.08	500.05	-0.0351
1035	50	Biased-84Hr-Anneal	499.84	500.02	0.1767
1036	50	Biased-84Hr-Anneal	499.84	500.03	0.1843
1037	50	Biased-84Hr-Anneal	499.84	500.01	0.1655
1038	50	Biased-84Hr-Anneal	499.88	500.04	0.1604
1039	50	Biased-84Hr-Anneal	499.85	500.04	0.1929

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	500.04	500.06	0.016693	499.94	499.98	500.04	0.047958	-0.1104	-0.05596	-0.0142	0.039845
20	500.01	500.04	500.07	0.020219	500.01	500.04	500.08	0.022942	-0.0431	0.0026	0.0453	0.032015
30	499.99	500.03	500.05	0.018656	499.94	500	500.06	0.04266	-0.0852	-0.03704	0.0318	0.04018
50	499.84	499.95	500.08	0.10655	500.01	500.03	500.05	0.012905	-0.0351	0.08022	0.1929	0.10169



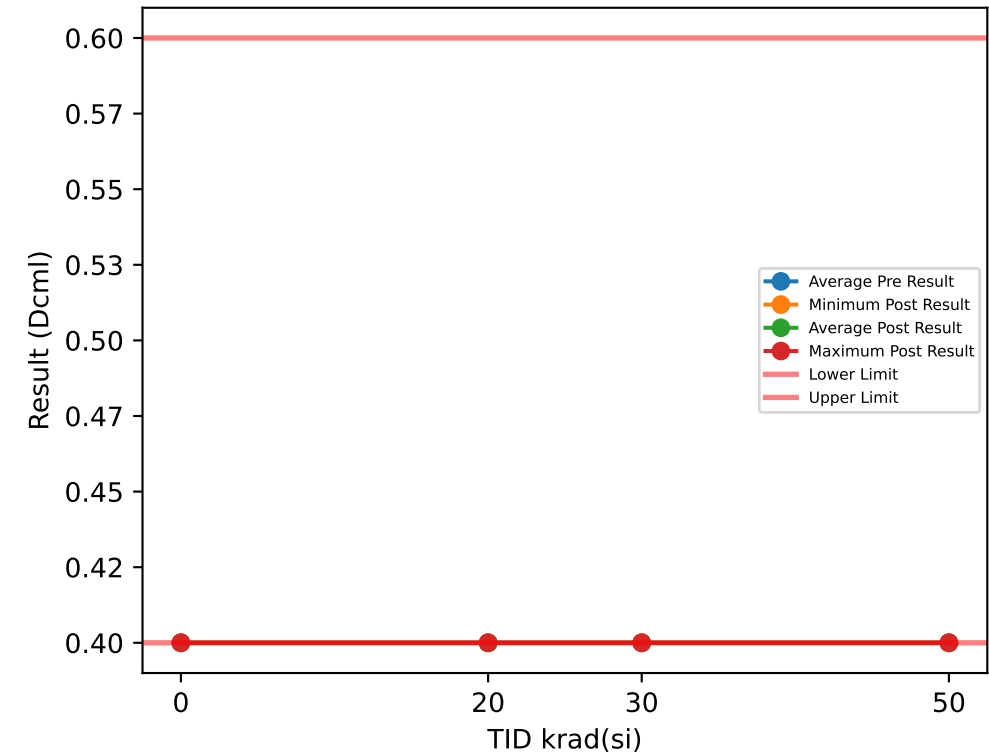
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1000	1000	0
516	0	CORRELATION	1000	1000	0
721	0	CORRELATION	1000	1000	0
723	0	CORRELATION	1000	1000	0
729	0	CORRELATION	1000	1000	0
990	20	Unbiased	1000	1000	0
991	20	Unbiased	1000	1000	0
992	20	Unbiased	1000	1000	0
993	20	Unbiased	1000	1000	0
994	20	Unbiased	1000	1000	0
995	20	Biased	1000	1000	0
996	20	Biased	1000	1000	0
997	20	Biased	1000	1000	0
998	20	Biased	1000	1000	0
999	20	Biased	1000	1000	0
1020	30	Unbiased	1000	1000	0
1021	30	Unbiased	1000	1000	0
1022	30	Unbiased	1000	1000	0
1023	30	Unbiased	1000	1000	0
1024	30	Unbiased	1000	1000	0
1025	30	Biased	1000	1000	0
1026	30	Biased	1000	1000	0
1027	30	Biased	1000	1000	0
1028	30	Biased	1000	1000	0
1029	30	Biased	1000	1000	0
1030	50	Unbiased	1000	1000	0
1031	50	Unbiased	1000	1000	0
1032	50	Unbiased	1000	1000	0
1033	50	Unbiased	1000	1000	0
1034	50	Unbiased	1000	1000	0
1035	50	Biased-84Hr-Anneal	1000	1000	0
1036	50	Biased-84Hr-Anneal	1000	1000	0
1037	50	Biased-84Hr-Anneal	1000	1000	0
1038	50	Biased-84Hr-Anneal	1000	1000	0
1039	50	Biased-84Hr-Anneal	1000	1000	0

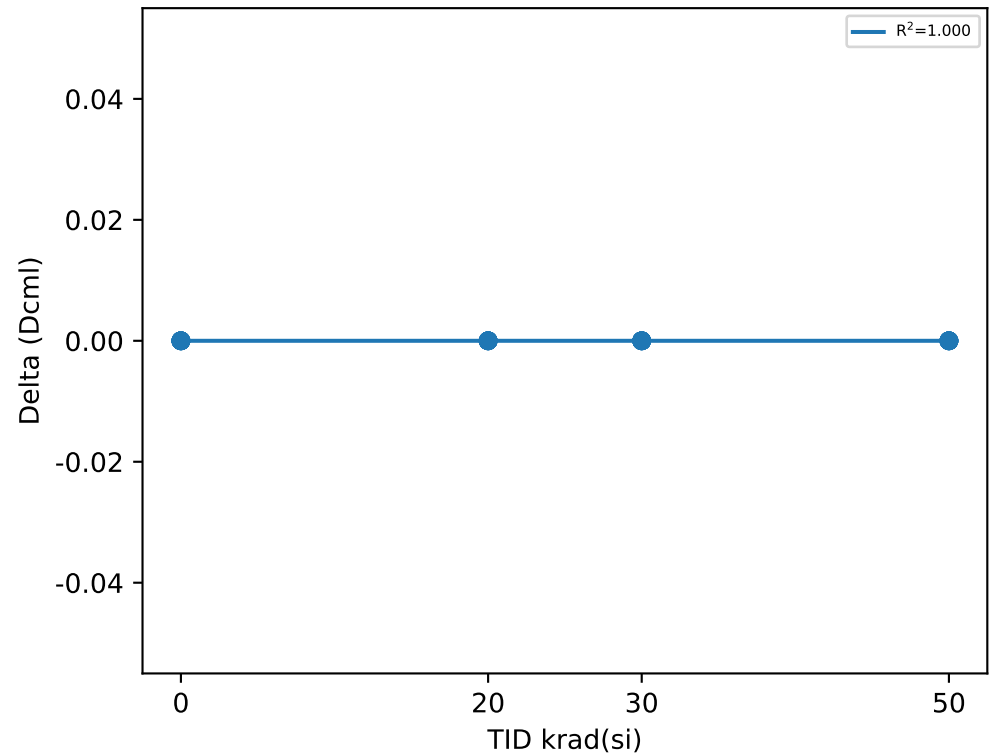
Test Statistics (kHz)

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	1000	1000	0	1000	1000	1000	0	0	0	0	0
20	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
30	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
50	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



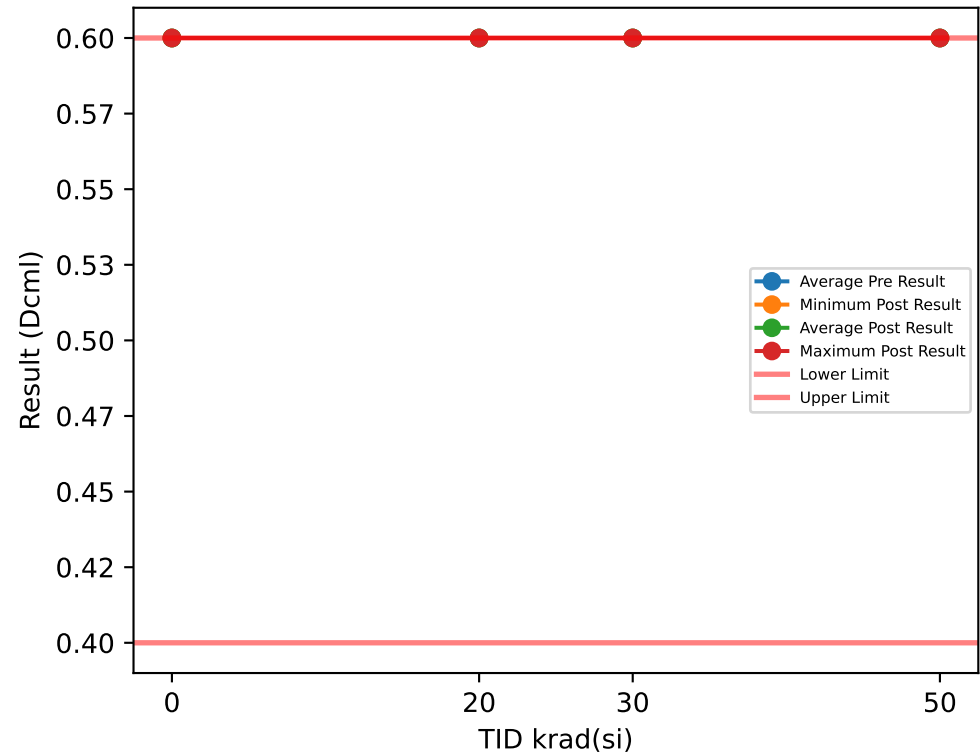
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.4	0.4	0
516	0	CORRELATION	0.4	0.4	0
721	0	CORRELATION	0.4	0.4	0
723	0	CORRELATION	0.4	0.4	0
729	0	CORRELATION	0.4	0.4	0
990	20	Unbiased	0.4	0.4	0
991	20	Unbiased	0.4	0.4	0
992	20	Unbiased	0.4	0.4	0
993	20	Unbiased	0.4	0.4	0
994	20	Unbiased	0.4	0.4	0
995	20	Biased	0.4	0.4	0
996	20	Biased	0.4	0.4	0
997	20	Biased	0.4	0.4	0
998	20	Biased	0.4	0.4	0
999	20	Biased	0.4	0.4	0
1020	30	Unbiased	0.4	0.4	0
1021	30	Unbiased	0.4	0.4	0
1022	30	Unbiased	0.4	0.4	0
1023	30	Unbiased	0.4	0.4	0
1024	30	Unbiased	0.4	0.4	0
1025	30	Biased	0.4	0.4	0
1026	30	Biased	0.4	0.4	0
1027	30	Biased	0.4	0.4	0
1028	30	Biased	0.4	0.4	0
1029	30	Biased	0.4	0.4	0
1030	50	Unbiased	0.4	0.4	0
1031	50	Unbiased	0.4	0.4	0
1032	50	Unbiased	0.4	0.4	0
1033	50	Unbiased	0.4	0.4	0
1034	50	Unbiased	0.4	0.4	0
1035	50	Biased-84Hr-Anneal	0.4	0.4	0
1036	50	Biased-84Hr-Anneal	0.4	0.4	0
1037	50	Biased-84Hr-Anneal	0.4	0.4	0
1038	50	Biased-84Hr-Anneal	0.4	0.4	0
1039	50	Biased-84Hr-Anneal	0.4	0.4	0

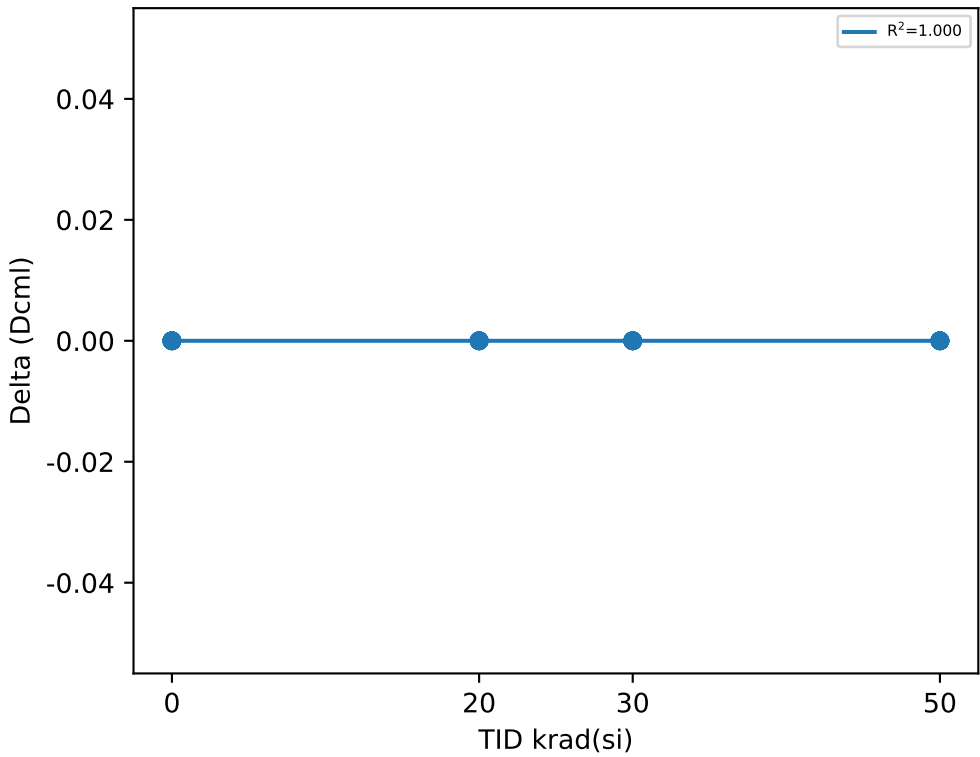
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
20	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
30	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
50	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



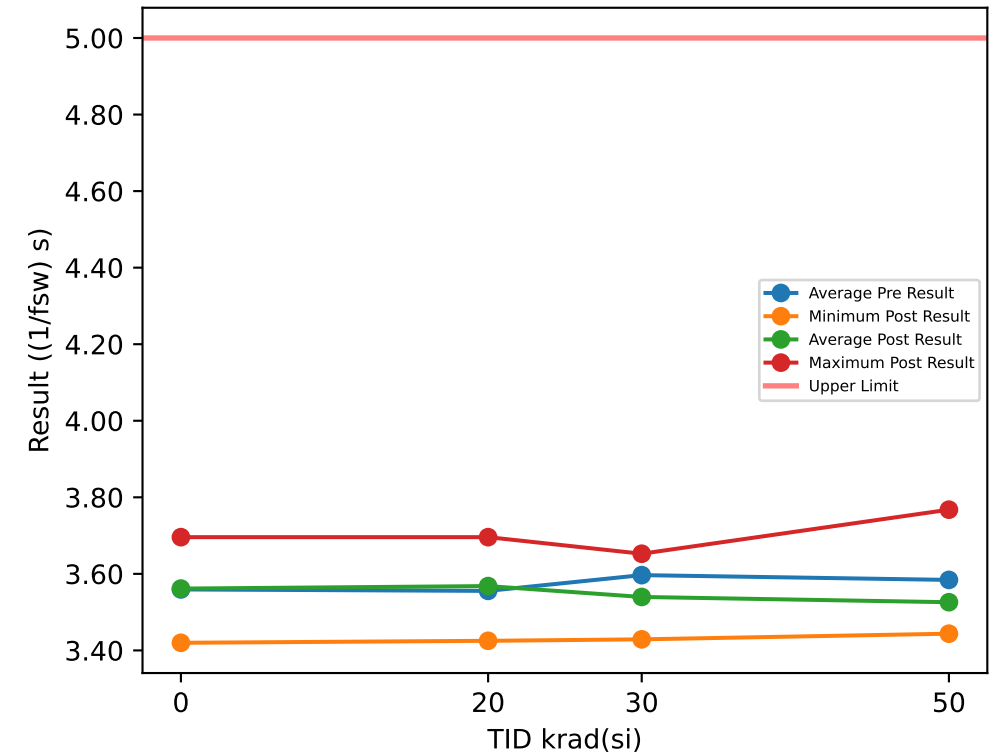
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.6	0.6	0
516	0	CORRELATION	0.6	0.6	0
721	0	CORRELATION	0.6	0.6	0
723	0	CORRELATION	0.6	0.6	0
729	0	CORRELATION	0.6	0.6	0
990	20	Unbiased	0.6	0.6	0
991	20	Unbiased	0.6	0.6	0
992	20	Unbiased	0.6	0.6	0
993	20	Unbiased	0.6	0.6	0
994	20	Unbiased	0.6	0.6	0
995	20	Biased	0.6	0.6	0
996	20	Biased	0.6	0.6	0
997	20	Biased	0.6	0.6	0
998	20	Biased	0.6	0.6	0
999	20	Biased	0.6	0.6	0
1020	30	Unbiased	0.6	0.6	0
1021	30	Unbiased	0.6	0.6	0
1022	30	Unbiased	0.6	0.6	0
1023	30	Unbiased	0.6	0.6	0
1024	30	Unbiased	0.6	0.6	0
1025	30	Biased	0.6	0.6	0
1026	30	Biased	0.6	0.6	0
1027	30	Biased	0.6	0.6	0
1028	30	Biased	0.6	0.6	0
1029	30	Biased	0.6	0.6	0
1030	50	Unbiased	0.6	0.6	0
1031	50	Unbiased	0.6	0.6	0
1032	50	Unbiased	0.6	0.6	0
1033	50	Unbiased	0.6	0.6	0
1034	50	Unbiased	0.6	0.6	0
1035	50	Biased-84Hr-Anneal	0.6	0.6	0
1036	50	Biased-84Hr-Anneal	0.6	0.6	0
1037	50	Biased-84Hr-Anneal	0.6	0.6	0
1038	50	Biased-84Hr-Anneal	0.6	0.6	0
1039	50	Biased-84Hr-Anneal	0.6	0.6	0

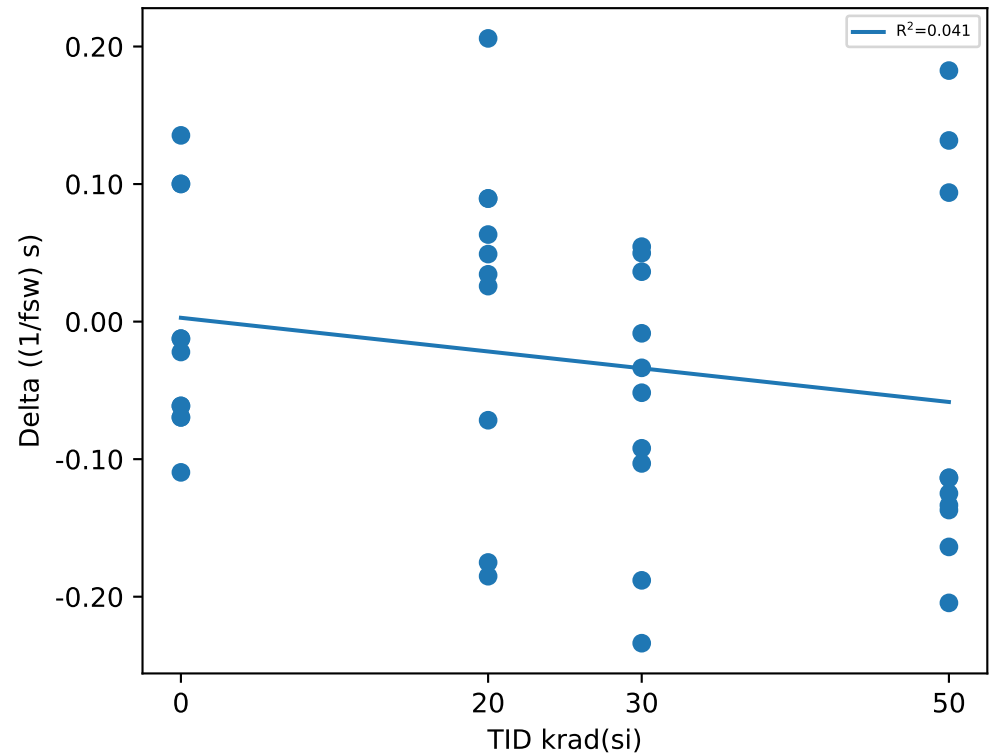
Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
20	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
30	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
50	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



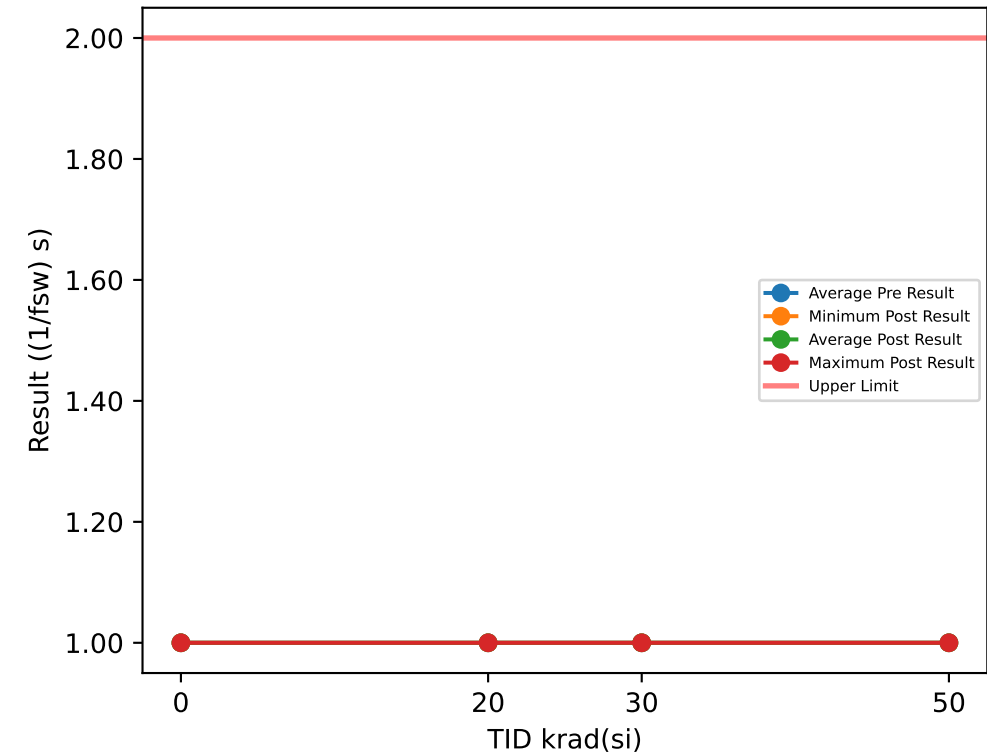
Test Results (Upper Limit = 5.0 ((1/fsw) s))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	3.5522	3.5301	-0.0221
516	0	CORRELATION	3.5295	3.4199	-0.1096
721	0	CORRELATION	3.5605	3.6959	0.1354
723	0	CORRELATION	3.5469	3.4856	-0.0613
729	0	CORRELATION	3.6074	3.595	-0.0124
990	20	Unbiased	3.546	3.6093	0.0633
991	20	Unbiased	3.4034	3.6093	0.2059
992	20	Unbiased	3.4968	3.4251	-0.0717
993	20	Unbiased	3.6065	3.6959	0.0894
994	20	Unbiased	3.6952	3.5101	-0.1851
995	20	Biased	3.5467	3.5811	0.0344
996	20	Biased	3.5395	3.5886	0.0491
997	20	Biased	3.4953	3.5849	0.0896
998	20	Biased	3.5501	3.5759	0.0258
999	20	Biased	3.6757	3.5006	-0.1751
1020	30	Unbiased	3.5256	3.5801	0.0545
1021	30	Unbiased	3.5948	3.5027	-0.0921
1022	30	Unbiased	3.6611	3.6526	-0.0085
1023	30	Unbiased	3.3791	3.4289	0.0498
1024	30	Unbiased	3.5654	3.5318	-0.0336
1025	30	Biased	3.6281	3.525	-0.1031
1026	30	Biased	3.6971	3.4633	-0.2338
1027	30	Biased	3.7975	3.6094	-0.1881
1028	30	Biased	3.6069	3.6432	0.0363
1029	30	Biased	3.5114	3.4597	-0.0517
1030	50	Unbiased	3.4883	3.5821	0.0938
1031	50	Unbiased	3.5572	3.4437	-0.1135
1032	50	Unbiased	3.415	3.5467	0.1317
1033	50	Unbiased	3.6411	3.5076	-0.1335
1034	50	Unbiased	3.5582	3.4445	-0.1137
1035	50	Biased-84Hr-Anneal	3.6871	3.4826	-0.2045
1036	50	Biased-84Hr-Anneal	3.5852	3.7677	0.1825
1037	50	Biased-84Hr-Anneal	3.6561	3.5191	-0.137
1038	50	Biased-84Hr-Anneal	3.6409	3.4771	-0.1638
1039	50	Biased-84Hr-Anneal	3.613	3.4881	-0.1249

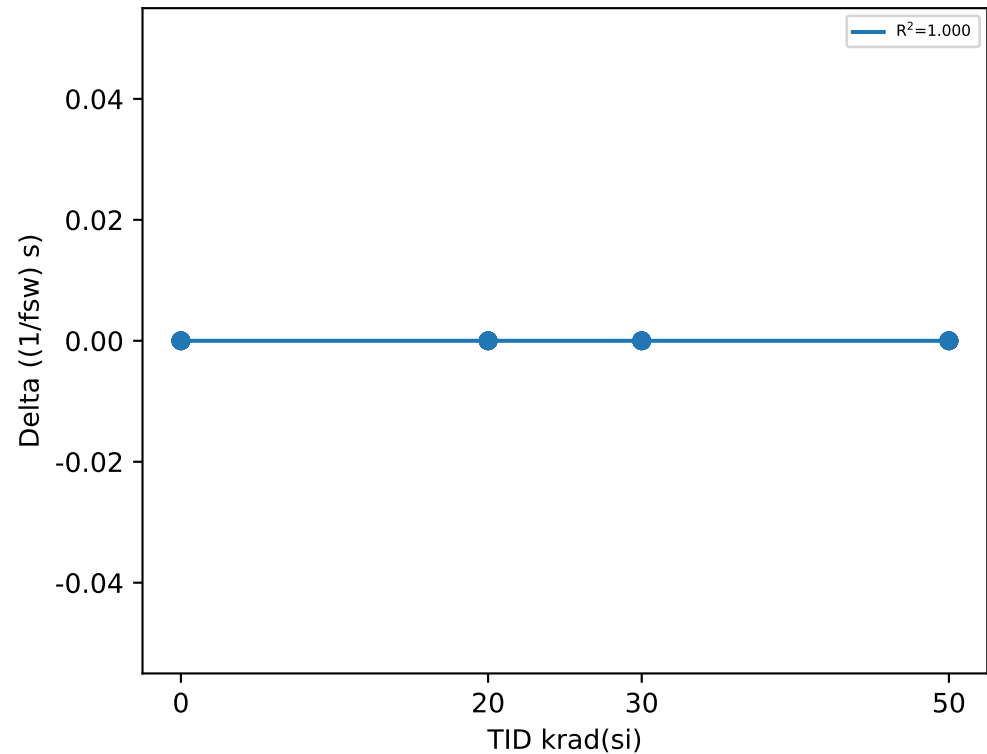
Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5295	3.5593	3.6074	0.029186	3.4199	3.5453	3.6959	0.10568	-0.1096	-0.014	0.1354	0.091877
20	3.4034	3.5555	3.6952	0.086424	3.4251	3.5681	3.6959	0.073809	-0.1851	0.01256	0.2059	0.12255
30	3.3791	3.5967	3.7975	0.11368	3.4289	3.5397	3.6526	0.078958	-0.2338	-0.05703	0.0545	0.098474
50	3.415	3.5842	3.6871	0.083181	3.4437	3.5259	3.7677	0.095165	-0.2045	-0.05829	0.1825	0.13829

TID vs Result Stats



TID vs Post - Pre Exposure Delta

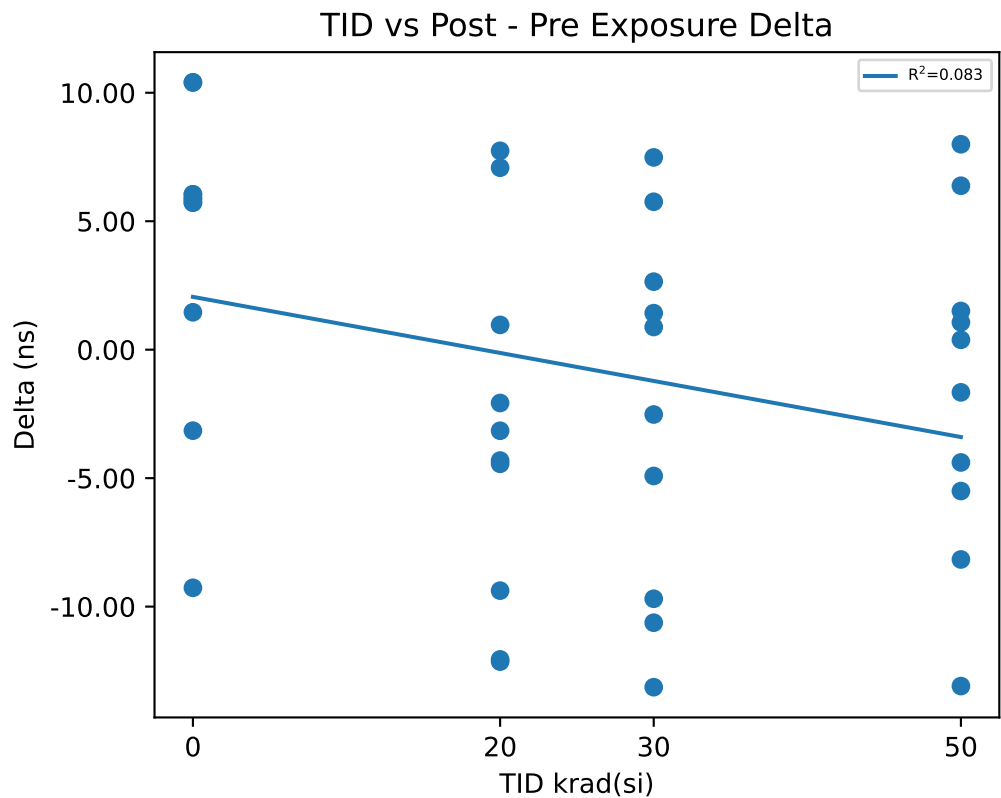
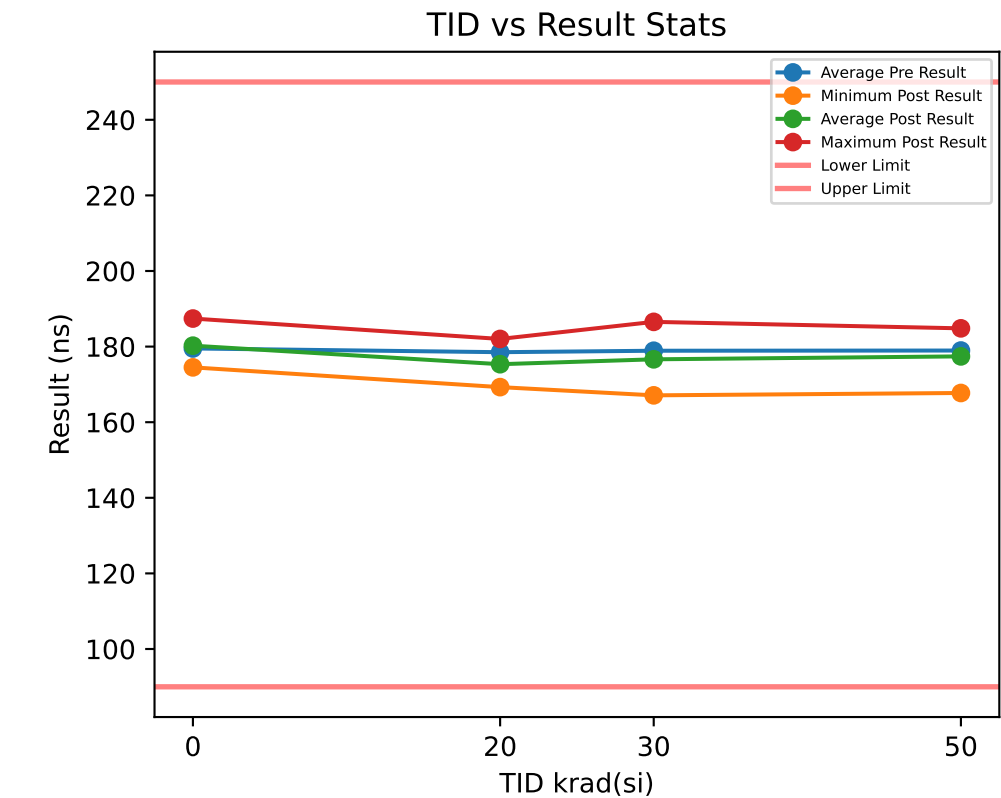


Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1	1	0
516	0	CORRELATION	1	1	0
721	0	CORRELATION	1	1	0
723	0	CORRELATION	1	1	0
729	0	CORRELATION	1	1	0
990	20	Unbiased	1	1	0
991	20	Unbiased	1	1	0
992	20	Unbiased	1	1	0
993	20	Unbiased	1	1	0
994	20	Unbiased	1	1	0
995	20	Biased	1	1	0
996	20	Biased	1	1	0
997	20	Biased	1	1	0
998	20	Biased	1	1	0
999	20	Biased	1	1	0
1020	30	Unbiased	1	1	0
1021	30	Unbiased	1	1	0
1022	30	Unbiased	1	1	0
1023	30	Unbiased	1	1	0
1024	30	Unbiased	1	1	0
1025	30	Biased	1	1	0
1026	30	Biased	1	1	0
1027	30	Biased	1	1	0
1028	30	Biased	1	1	0
1029	30	Biased	1	1	0
1030	50	Unbiased	1	1	0
1031	50	Unbiased	1	1	0
1032	50	Unbiased	1	1	0
1033	50	Unbiased	1	1	0
1034	50	Unbiased	1	1	0
1035	50	Biased-84Hr-Anneal	1	1	0
1036	50	Biased-84Hr-Anneal	1	1	0
1037	50	Biased-84Hr-Anneal	1	1	0
1038	50	Biased-84Hr-Anneal	1	1	0
1039	50	Biased-84Hr-Anneal	1	1	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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	1	1	0	1	1	1	0	0	0	0	0
20	1	1	1	0	1	1	1	0	0	0	0	0
30	1	1	1	0	1	1	1	0	0	0	0	0
50	1	1	1	0	1	1	1	0	0	0	0	0



Test Results (Lower Limit = 90.0, Upper Limit = 250.0 (ns))

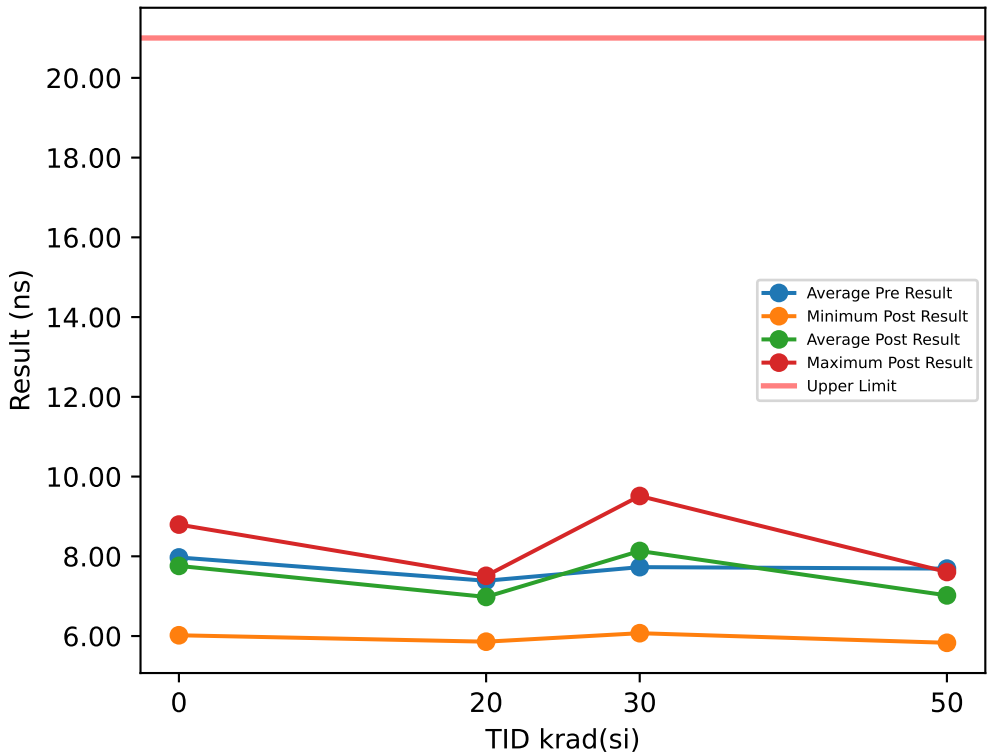
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	185.97	187.42	1.4554
516	0	CORRELATION	181.11	177.95	-3.1521
721	0	CORRELATION	183.78	174.51	-9.2682
723	0	CORRELATION	168.73	179.13	10.403
729	0	CORRELATION	177.95	184	6.0462
990	20	Unbiased	171.35	169.28	-2.0752
991	20	Unbiased	176.87	172.43	-4.4417
992	20	Unbiased	175.01	175.98	0.9647
993	20	Unbiased	183.25	173.87	-9.3784
994	20	Unbiased	170.44	178.18	7.7409
995	20	Biased	184.82	181.66	-3.1553
996	20	Biased	182.44	170.3	-12.14
997	20	Biased	186.34	182.02	-4.316
998	20	Biased	171.52	178.6	7.0826
999	20	Biased	183.16	171.11	-12.055
1020	30	Unbiased	179.06	186.54	7.4836
1021	30	Unbiased	188.11	178.42	-9.6945
1022	30	Unbiased	183.58	178.66	-4.9156
1023	30	Unbiased	180.71	167.58	-13.136
1024	30	Unbiased	171.01	176.77	5.7572
1025	30	Biased	177.73	167.1	-10.627
1026	30	Biased	183.63	186.27	2.6479
1027	30	Biased	169.23	170.11	0.8835
1028	30	Biased	183.67	181.15	-2.5234
1029	30	Biased	172.32	173.74	1.4225
1030	50	Unbiased	177.69	172.19	-5.5018
1031	50	Unbiased	180.9	179.24	-1.6607
1032	50	Unbiased	180.82	167.73	-13.093
1033	50	Unbiased	174.7	181.08	6.3809
1034	50	Unbiased	184.3	179.91	-4.3893
1035	50	Biased-84Hr-Anneal	173.64	175.15	1.5065
1036	50	Biased-84Hr-Anneal	182.37	182.75	0.3846
1037	50	Biased-84Hr-Anneal	171.06	172.12	1.0624
1038	50	Biased-84Hr-Anneal	176.84	184.83	7.9951
1039	50	Biased-84Hr-Anneal	187.29	179.13	-8.165

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	168.73	179.51	185.97	6.7276	174.51	180.6	187.42	5.1069	-9.2682	1.0969	10.403	7.6928
20	170.44	178.52	186.34	6.1532	169.28	175.34	182.02	4.649	-12.14	-3.1774	7.7409	7.0185
30	169.23	178.91	188.11	6.286	167.1	176.63	186.54	7.0122	-13.136	-2.2702	7.4836	7.1293
50	171.06	178.96	187.29	5.0748	167.73	177.41	184.83	5.4127	-13.093	-1.548	7.9951	6.4515

Device Test: 24.64 TIMING|RISE/SYNC1/5//511k/4011/@SYNC_LH_RISE_TIME

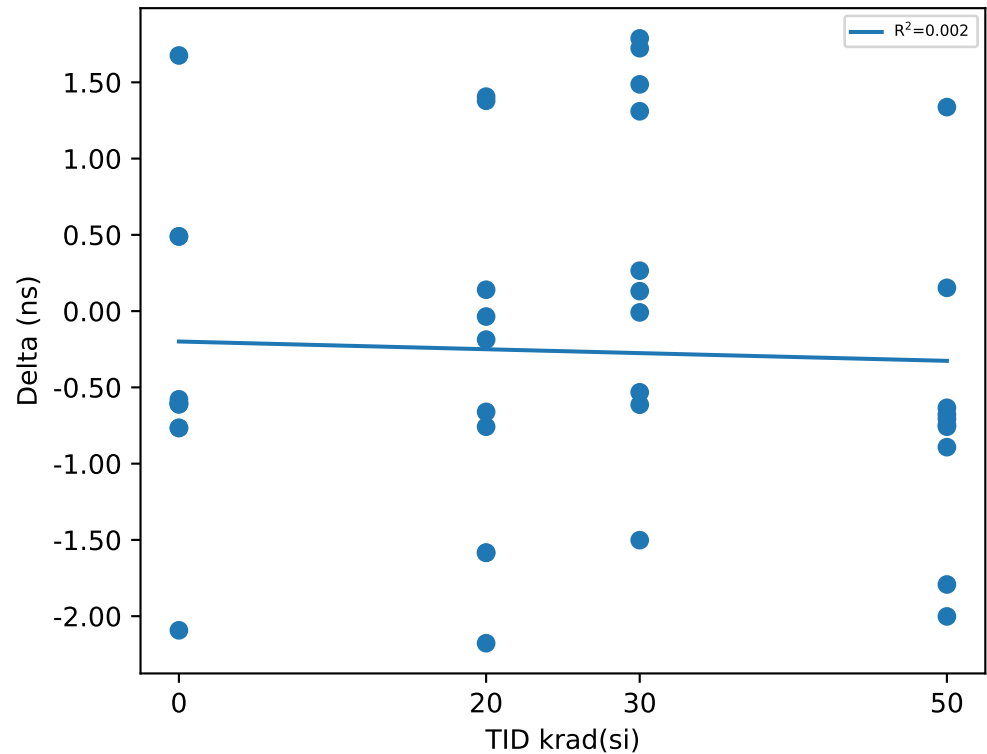
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	5.9615	7.6376	1.6761
516	0	CORRELATION	8.1122	6.0196	-2.0926
721	0	CORRELATION	9.2928	8.7146	-0.5782
723	0	CORRELATION	8.1845	7.5741	-0.6104
729	0	CORRELATION	8.3061	8.7959	0.4898
990	20	Unbiased	7.3922	7.3567	-0.0355
991	20	Unbiased	8.1585	7.498	-0.6605
992	20	Unbiased	7.5312	5.9464	-1.5848
993	20	Unbiased	6.0354	7.4417	1.4063
994	20	Unbiased	7.3363	7.4765	0.1402
995	20	Biased	8.1735	5.9964	-2.1771
996	20	Biased	7.5559	7.369	-0.1869
997	20	Biased	6.1315	7.5106	1.3791
998	20	Biased	7.4414	5.8585	-1.5829
999	20	Biased	8.1107	7.3528	-0.7579
1020	30	Unbiased	8.1799	9.4901	1.3102
1021	30	Unbiased	9.2578	8.7256	-0.5322
1022	30	Unbiased	7.067	8.7905	1.7235
1023	30	Unbiased	5.9434	7.4301	1.4867
1024	30	Unbiased	7.381	7.5118	0.1308
1025	30	Biased	7.0756	8.8636	1.788
1026	30	Biased	9.2479	9.5131	0.2652
1027	30	Biased	7.3925	7.3842	-0.0083
1028	30	Biased	8.1673	7.5539	-0.6134
1029	30	Biased	7.5731	6.0715	-1.5016
1030	50	Unbiased	8.098	7.4642	-0.6338
1031	50	Unbiased	7.6228	5.8307	-1.7921
1032	50	Unbiased	5.9727	7.3102	1.3375
1033	50	Unbiased	7.4539	7.6065	0.1526
1034	50	Unbiased	8.0906	6.0891	-2.0015
1035	50	Biased-84Hr-Anneal	8.1163	7.4096	-0.7067
1036	50	Biased-84Hr-Anneal	8.3312	7.5861	-0.7451
1037	50	Biased-84Hr-Anneal	8.0998	7.4218	-0.678
1038	50	Biased-84Hr-Anneal	8.2715	7.514	-0.7575
1039	50	Biased-84Hr-Anneal	6.8574	5.9654	-0.892

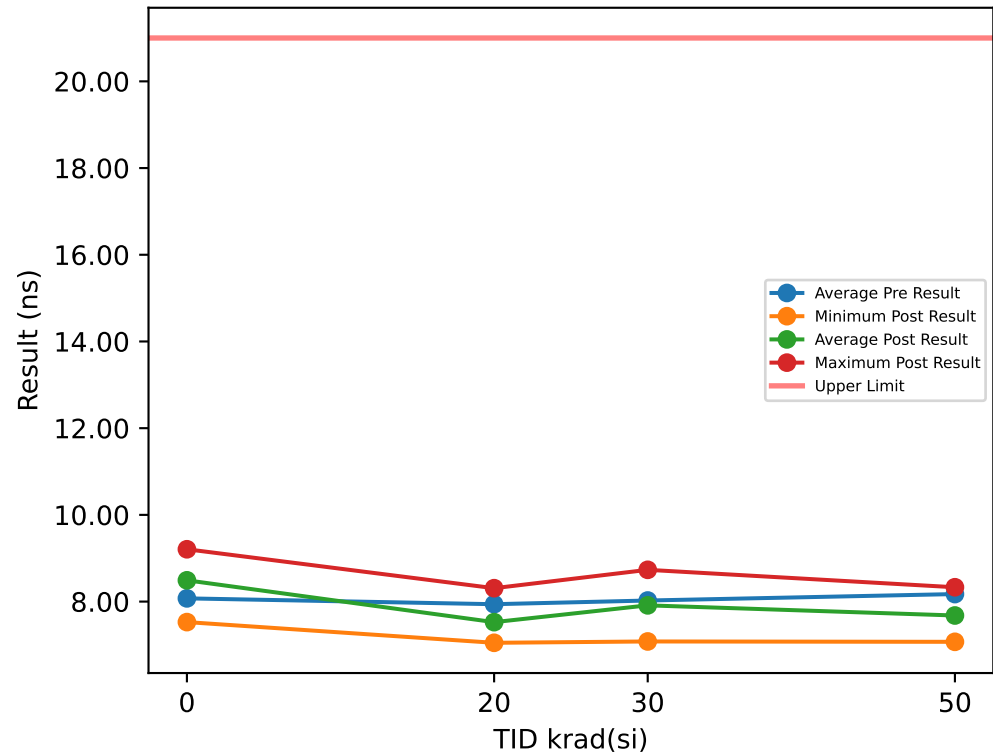
TID vs Post - Pre Exposure Delta



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	5.9615	7.9714	9.2928	1.221	6.0196	7.7484	8.7959	1.125	-2.0926	-0.22306	1.6761	1.4041
20	6.0354	7.3867	8.1735	0.75979	5.8585	6.9807	7.5106	0.72536	-2.1771	-0.406	1.4063	1.2044
30	5.9434	7.7286	9.2578	1.0194	6.0715	8.1334	9.5131	1.11	-1.5016	0.40489	1.788	1.1283
50	5.9727	7.6914	8.3312	0.75487	5.8307	7.0198	7.6065	0.7376	-2.0015	-0.67166	1.3375	0.93119

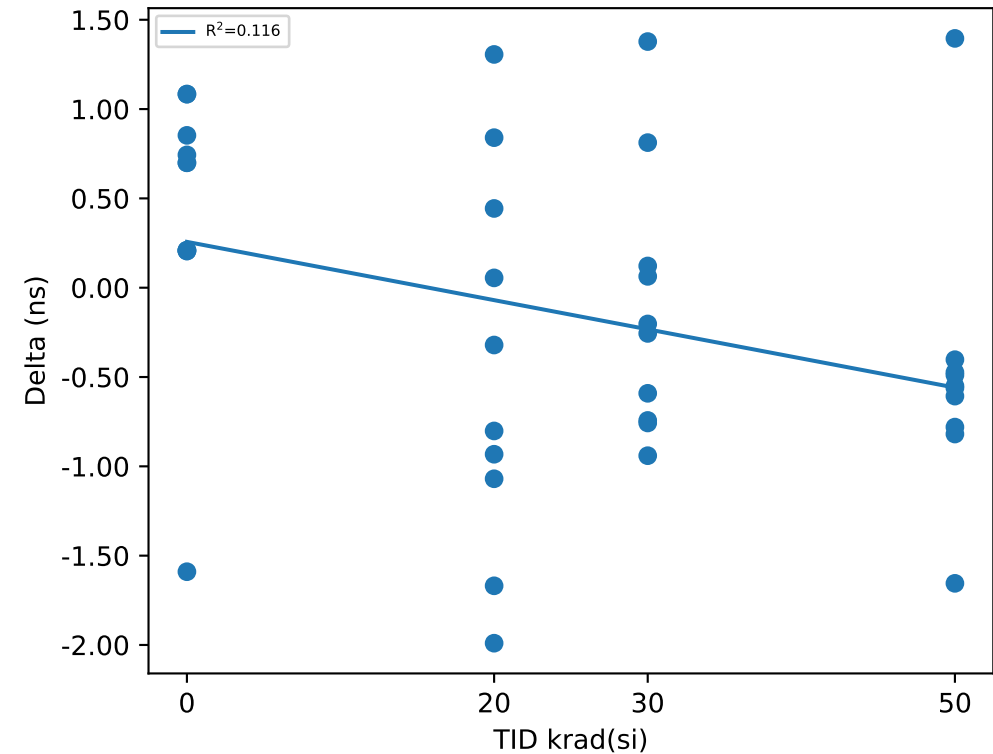
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.4017	8.2546	0.8529
516	0	CORRELATION	9.1166	7.5267	-1.5899
721	0	CORRELATION	7.6463	8.3899	0.7436
723	0	CORRELATION	8.123	9.2068	1.0838
729	0	CORRELATION	8.0838	8.7832	0.6994
990	20	Unbiased	6.9944	7.0494	0.055
991	20	Unbiased	9.0458	8.2439	-0.8019
992	20	Unbiased	8.2507	7.3184	-0.9323
993	20	Unbiased	7.3966	7.0758	-0.3208
994	20	Unbiased	6.9307	8.2366	1.3059
995	20	Biased	9.0897	7.4209	-1.6688
996	20	Biased	8.2015	7.1319	-1.0696
997	20	Biased	7.469	8.309	0.84
998	20	Biased	6.9649	7.4086	0.4437
999	20	Biased	9.0532	7.0631	-1.9901
1020	30	Unbiased	8.5652	7.6248	-0.9404
1021	30	Unbiased	7.6109	8.4232	0.8123
1022	30	Unbiased	8.9355	8.7326	-0.2029
1023	30	Unbiased	7.3361	7.0802	-0.2559
1024	30	Unbiased	6.9479	8.3259	1.378
1025	30	Biased	8.9887	8.3975	-0.5912
1026	30	Biased	7.5886	7.6521	0.0635
1027	30	Biased	7.0026	7.1243	0.1217
1028	30	Biased	9.0755	8.3324	-0.7431
1029	30	Biased	8.1955	7.4383	-0.7572
1030	50	Unbiased	9.0908	8.3105	-0.7803
1031	50	Unbiased	8.2345	7.4153	-0.8192
1032	50	Unbiased	7.4748	7.0719	-0.4029
1033	50	Unbiased	6.9316	8.3273	1.3957
1034	50	Unbiased	9.0647	7.4097	-1.655
1035	50	Biased-84Hr-Anneal	7.5833	7.0943	-0.489
1036	50	Biased-84Hr-Anneal	8.8932	8.2863	-0.6069
1037	50	Biased-84Hr-Anneal	7.5704	7.097	-0.4734
1038	50	Biased-84Hr-Anneal	8.8803	8.3306	-0.5497
1039	50	Biased-84Hr-Anneal	8.0099	7.4489	-0.561

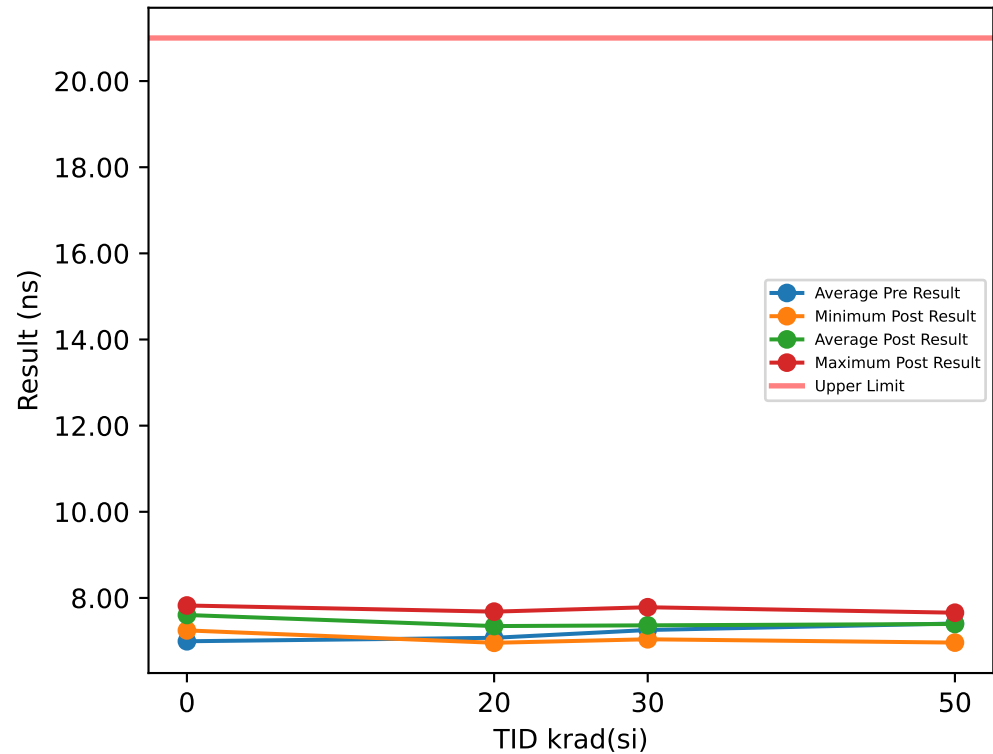
TID vs Post - Pre Exposure Delta



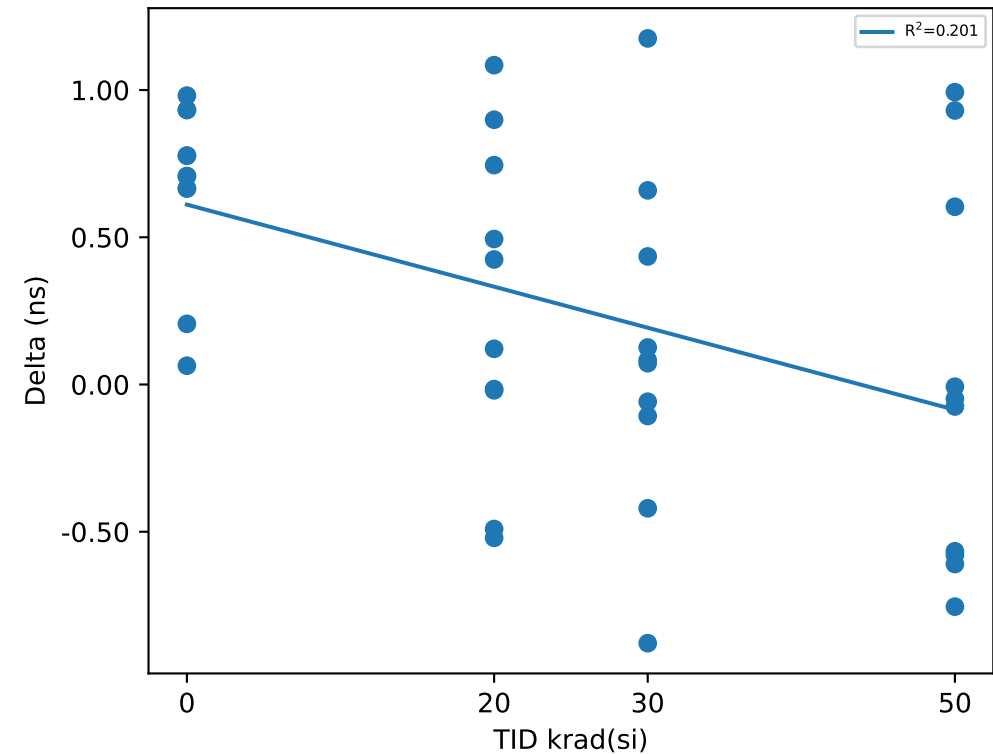
Test Statistics (ns)

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	7.4017	8.0743	9.1166	0.65659	7.5267	8.4322	9.2068	0.62779	-1.5899	0.35796	1.0838	1.099
20	6.9307	7.9397	9.0897	0.90244	7.0494	7.5258	8.309	0.52713	-1.9901	-0.41389	1.3059	1.0751
30	6.9479	8.0246	9.0755	0.83161	7.0802	7.9131	8.7326	0.59677	-0.9404	-0.11152	1.378	0.73931
50	6.9316	8.1734	9.0908	0.77648	7.0719	7.6792	8.3306	0.56339	-1.655	-0.49417	1.3957	0.7554

TID vs Result Stats



TID vs Post - Pre Exposure Delta



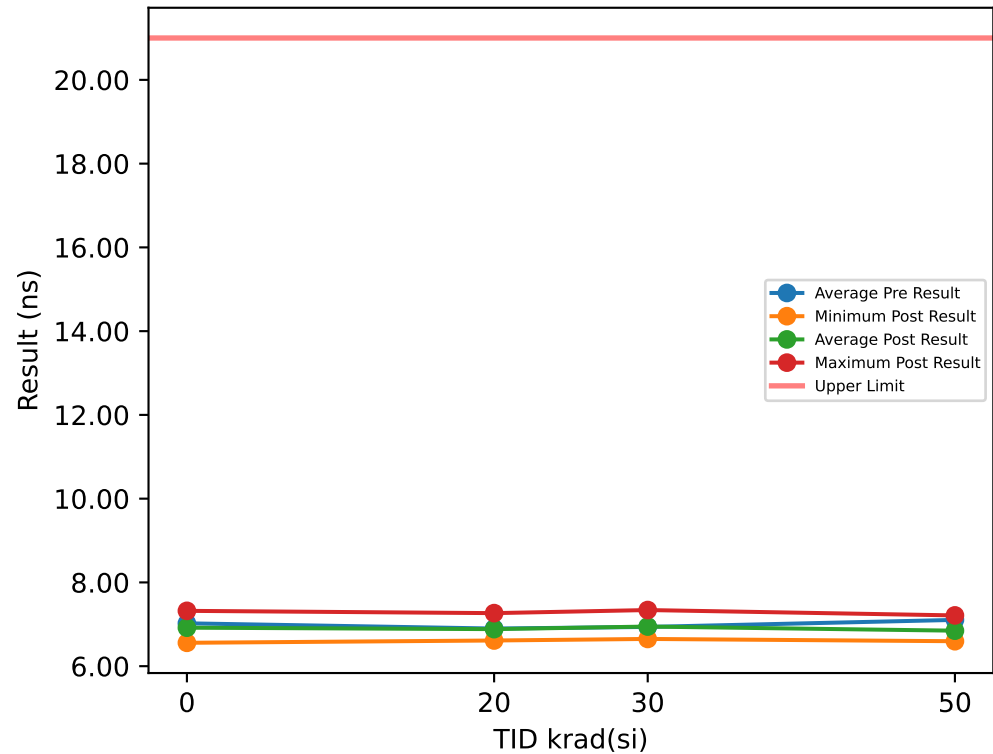
Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.5026	7.7086	0.206
516	0	CORRELATION	6.5329	7.514	0.9811
721	0	CORRELATION	7.1827	7.2465	0.0638
723	0	CORRELATION	6.8605	7.6376	0.7771
729	0	CORRELATION	6.8924	7.8248	0.9324
990	20	Unbiased	7.0328	7.0131	-0.0197
991	20	Unbiased	6.5432	7.6276	1.0844
992	20	Unbiased	7.5519	7.5364	-0.0155
993	20	Unbiased	7.4778	6.9872	-0.4906
994	20	Unbiased	6.9196	7.6646	0.745
995	20	Biased	6.6125	7.5116	0.8991
996	20	Biased	7.5413	7.0206	-0.5207
997	20	Biased	7.5607	7.682	0.1213
998	20	Biased	6.9734	7.4675	0.4941
999	20	Biased	6.5341	6.9587	0.4246
1020	30	Unbiased	8.0466	7.1682	-0.8784
1021	30	Unbiased	7.1729	7.2451	0.0722
1022	30	Unbiased	7.3493	7.7842	0.4349
1023	30	Unbiased	7.4648	7.0445	-0.4203
1024	30	Unbiased	7.0334	7.6927	0.6593
1025	30	Biased	7.3011	7.2427	-0.0584
1026	30	Biased	7.0861	7.2119	0.1258
1027	30	Biased	6.9575	7.0403	0.0828
1028	30	Biased	6.5891	7.7644	1.1753
1029	30	Biased	7.5539	7.447	-0.1069
1030	50	Unbiased	6.6205	7.551	0.9305
1031	50	Unbiased	7.5717	7.4971	-0.0746
1032	50	Unbiased	7.5424	6.9633	-0.5791
1033	50	Unbiased	7.004	7.6076	0.6036
1034	50	Unbiased	6.5235	7.5162	0.9927
1035	50	Biased-84Hr-Anneal	7.6432	7.077	-0.5662
1036	50	Biased-84Hr-Anneal	7.6645	7.6571	-0.0074
1037	50	Biased-84Hr-Anneal	7.6635	7.0539	-0.6096
1038	50	Biased-84Hr-Anneal	7.6434	7.5949	-0.0485
1039	50	Biased-84Hr-Anneal	8.1918	7.4376	-0.7542

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	6.5329	6.9942	7.5026	0.36573	7.2465	7.5863	7.8248	0.22089	0.0638	0.59208	0.9811	0.42706
20	6.5341	7.0747	7.5607	0.43058	6.9587	7.3469	7.682	0.31048	-0.5207	0.2722	1.0844	0.55277
30	6.5891	7.2555	8.0466	0.39261	7.0403	7.3641	7.7842	0.28848	-0.8784	0.10863	1.1753	0.5655
50	6.5235	7.4069	8.1918	0.52353	6.9633	7.3956	7.6571	0.26012	-0.7542	-0.01128	0.9927	0.65138

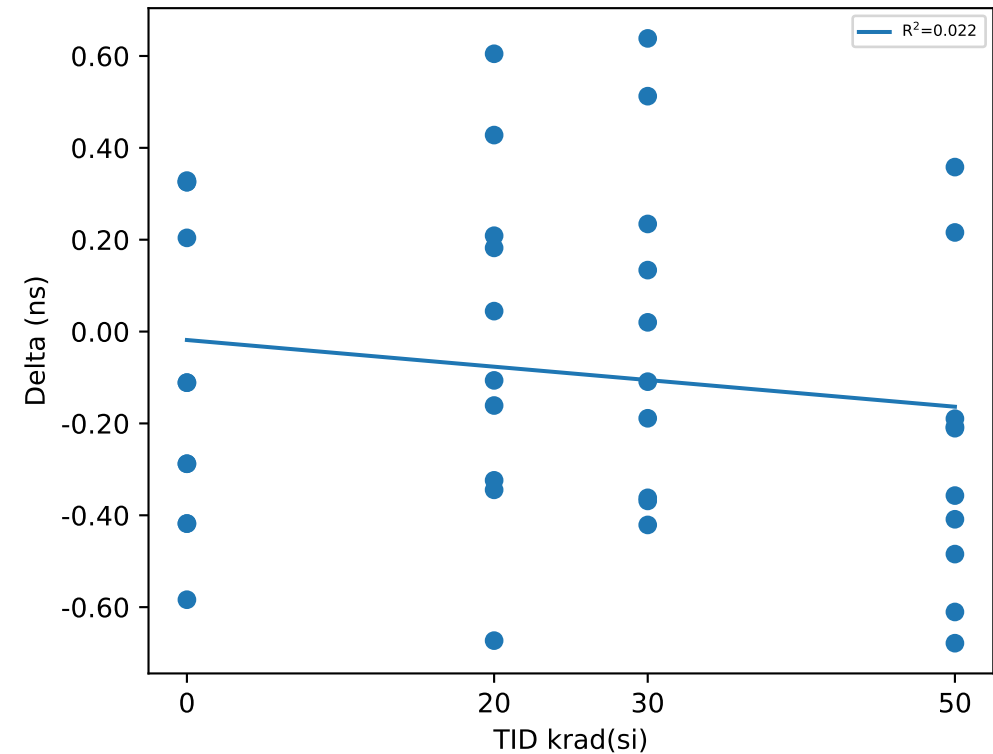
TID vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	7.142	6.5582	-0.5838
516	0	CORRELATION	6.9732	7.1772	0.204
721	0	CORRELATION	6.9924	7.3211	0.3287
723	0	CORRELATION	6.9755	7.3008	0.3253
729	0	CORRELATION	7.0329	6.9217	-0.1112
990	20	Unbiased	6.8072	6.8517	0.0445
991	20	Unbiased	7.0085	6.6639	-0.3446
992	20	Unbiased	6.6128	7.2176	0.6048
993	20	Unbiased	7.089	6.7651	-0.3239
994	20	Unbiased	6.7742	6.6132	-0.161
995	20	Biased	6.9653	7.174	0.2087
996	20	Biased	6.6258	6.808	0.1822
997	20	Biased	7.2946	6.6217	-0.6729
998	20	Biased	6.8388	7.2666	0.4278
999	20	Biased	6.9704	6.8641	-0.1063
1020	30	Unbiased	7.2386	6.8699	-0.3687
1021	30	Unbiased	7.0972	7.3315	0.2343
1022	30	Unbiased	6.747	6.8808	0.1338
1023	30	Unbiased	7.2428	6.8218	-0.421
1024	30	Unbiased	6.839	6.6502	-0.1888
1025	30	Biased	6.7019	7.3402	0.6383
1026	30	Biased	6.9915	6.8824	-0.1091
1027	30	Biased	6.8426	6.8627	0.0201
1028	30	Biased	7.0265	6.6645	-0.362
1029	30	Biased	6.644	7.1565	0.5125
1030	50	Unbiased	7.0126	6.6555	-0.3571
1031	50	Unbiased	6.6866	7.0447	0.3581
1032	50	Unbiased	7.2266	6.8179	-0.4087
1033	50	Unbiased	6.7855	6.5958	-0.1897
1034	50	Unbiased	6.9964	7.2122	0.2158
1035	50	Biased-84Hr-Anneal	7.5017	6.8912	-0.6105
1036	50	Biased-84Hr-Anneal	6.8396	6.6323	-0.2073
1037	50	Biased-84Hr-Anneal	7.5251	6.8466	-0.6785
1038	50	Biased-84Hr-Anneal	6.8071	6.5967	-0.2104
1039	50	Biased-84Hr-Anneal	7.6678	7.1833	-0.4845

TID vs Post - Pre Exposure Delta

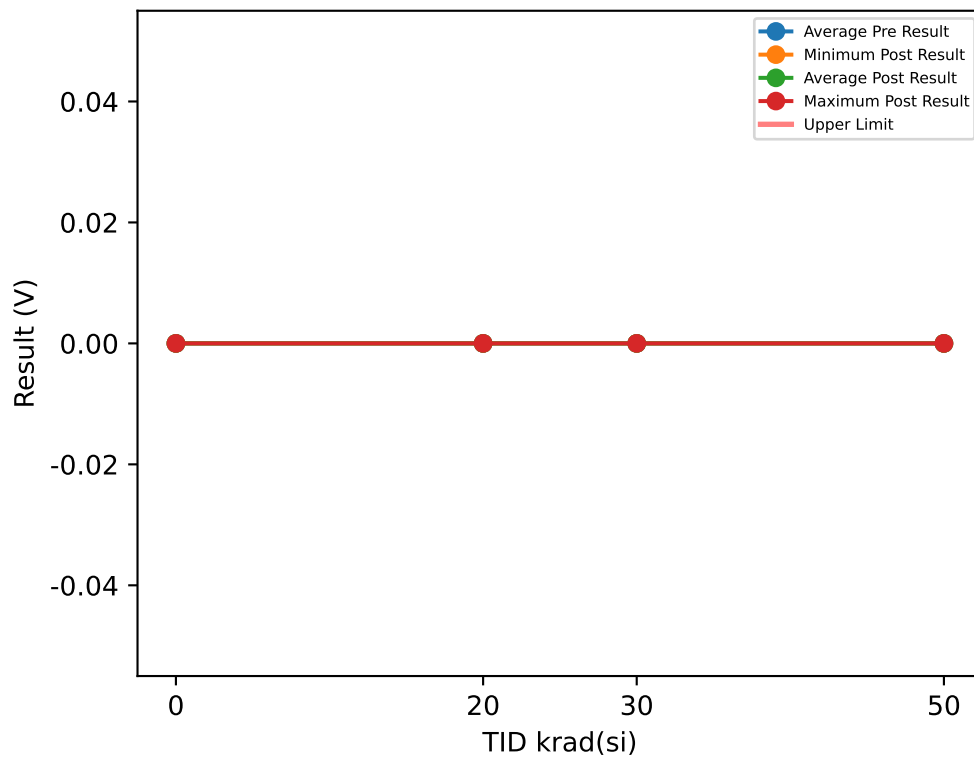


Test Statistics (ns)

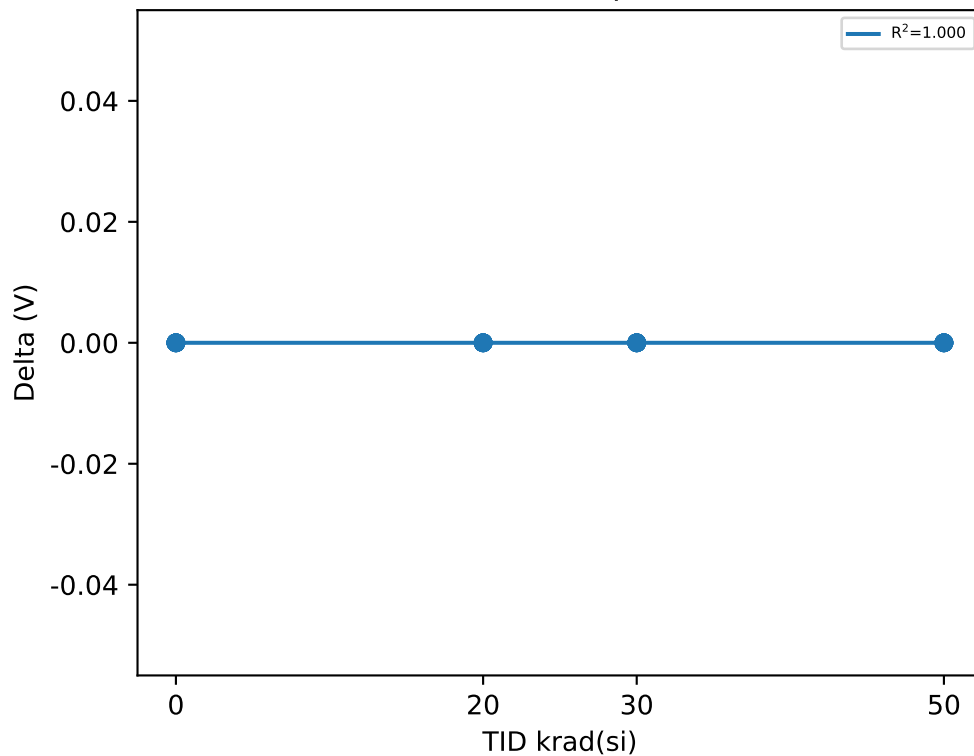
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.9732	7.0232	7.142	0.070589	6.5582	7.0558	7.3211	0.32044	-0.5838	0.0326	0.3287	0.38838
20	6.6128	6.8987	7.2946	0.21036	6.6132	6.8846	7.2666	0.24804	-0.6729	-0.01407	0.6048	0.38575
30	6.644	6.9371	7.2428	0.21521	6.6502	6.946	7.3402	0.24754	-0.421	0.00894	0.6383	0.37032
50	6.6866	7.1049	7.6678	0.35309	6.5958	6.8476	7.2122	0.23496	-0.6785	-0.25728	0.3581	0.33308

Device Test: 24.68 LEVELS|VOH/SYNC1/5//511k/4011/@SYNC_OUT_HIGH

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (No Limits Specified (V))

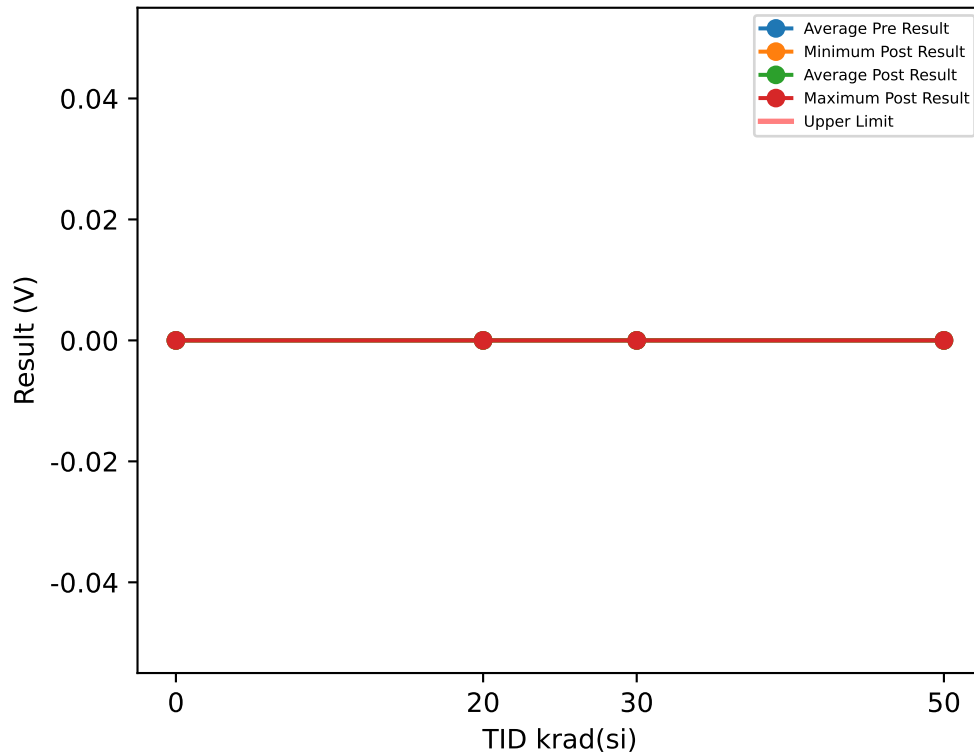
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0	0	0
516	0	CORRELATION	0	0	0
721	0	CORRELATION	0	0	0
723	0	CORRELATION	0	0	0
729	0	CORRELATION	0	0	0
990	20	Unbiased	0	0	0
991	20	Unbiased	0	0	0
992	20	Unbiased	0	0	0
993	20	Unbiased	0	0	0
994	20	Unbiased	0	0	0
995	20	Biased	0	0	0
996	20	Biased	0	0	0
997	20	Biased	0	0	0
998	20	Biased	0	0	0
999	20	Biased	0	0	0
1020	30	Unbiased	0	0	0
1021	30	Unbiased	0	0	0
1022	30	Unbiased	0	0	0
1023	30	Unbiased	0	0	0
1024	30	Unbiased	0	0	0
1025	30	Biased	0	0	0
1026	30	Biased	0	0	0
1027	30	Biased	0	0	0
1028	30	Biased	0	0	0
1029	30	Biased	0	0	0
1030	50	Unbiased	0	0	0
1031	50	Unbiased	0	0	0
1032	50	Unbiased	0	0	0
1033	50	Unbiased	0	0	0
1034	50	Unbiased	0	0	0
1035	50	Biased-84Hr-Anneal	0	0	0
1036	50	Biased-84Hr-Anneal	0	0	0
1037	50	Biased-84Hr-Anneal	0	0	0
1038	50	Biased-84Hr-Anneal	0	0	0
1039	50	Biased-84Hr-Anneal	0	0	0

Test Statistics (V)

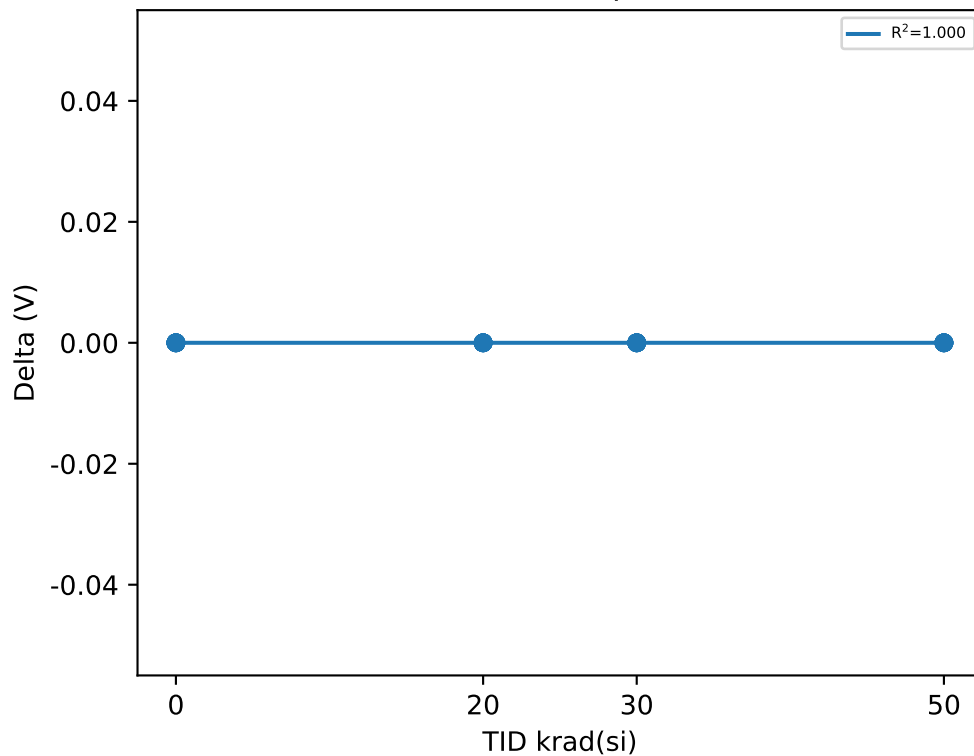
[illegible]

Device Test: 24.69 LEVELS|VOH/SYNC2/5//511k//@SYNC_OUT_HIGH

TID vs Result Stats



TID vs Post - Pre Exposure Delta



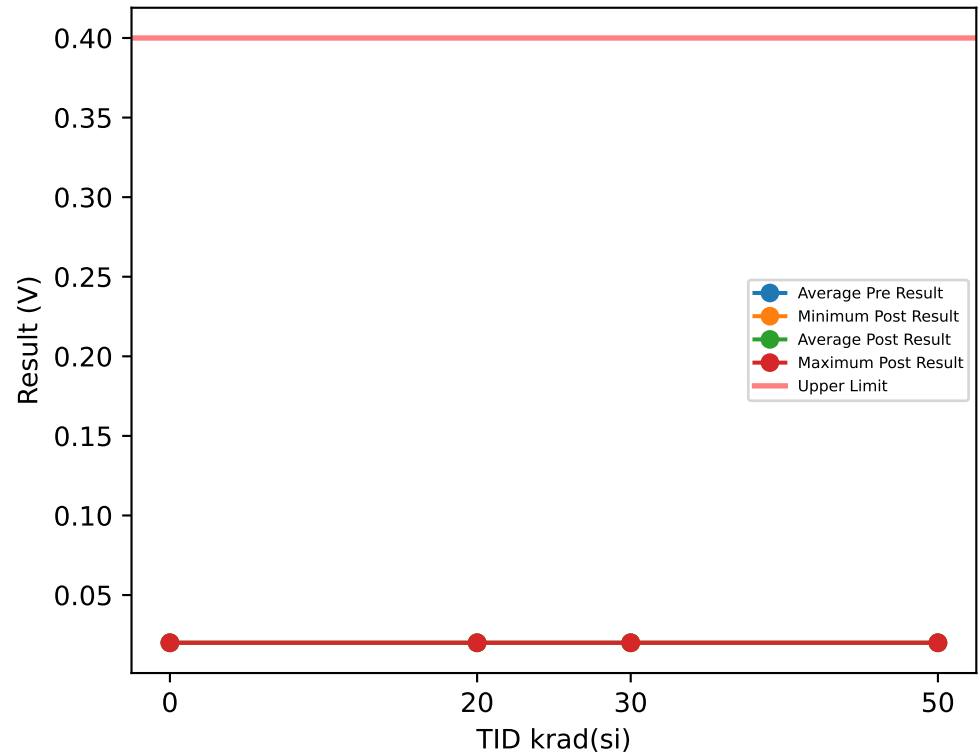
Test Results (No Limits Specified (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0	0	0
516	0	CORRELATION	0	0	0
721	0	CORRELATION	0	0	0
723	0	CORRELATION	0	0	0
729	0	CORRELATION	0	0	0
990	20	Unbiased	0	0	0
991	20	Unbiased	0	0	0
992	20	Unbiased	0	0	0
993	20	Unbiased	0	0	0
994	20	Unbiased	0	0	0
995	20	Biased	0	0	0
996	20	Biased	0	0	0
997	20	Biased	0	0	0
998	20	Biased	0	0	0
999	20	Biased	0	0	0
1020	30	Unbiased	0	0	0
1021	30	Unbiased	0	0	0
1022	30	Unbiased	0	0	0
1023	30	Unbiased	0	0	0
1024	30	Unbiased	0	0	0
1025	30	Biased	0	0	0
1026	30	Biased	0	0	0
1027	30	Biased	0	0	0
1028	30	Biased	0	0	0
1029	30	Biased	0	0	0
1030	50	Unbiased	0	0	0
1031	50	Unbiased	0	0	0
1032	50	Unbiased	0	0	0
1033	50	Unbiased	0	0	0
1034	50	Unbiased	0	0	0
1035	50	Biased-84Hr-Anneal	0	0	0
1036	50	Biased-84Hr-Anneal	0	0	0
1037	50	Biased-84Hr-Anneal	0	0	0
1038	50	Biased-84Hr-Anneal	0	0	0
1039	50	Biased-84Hr-Anneal	0	0	0

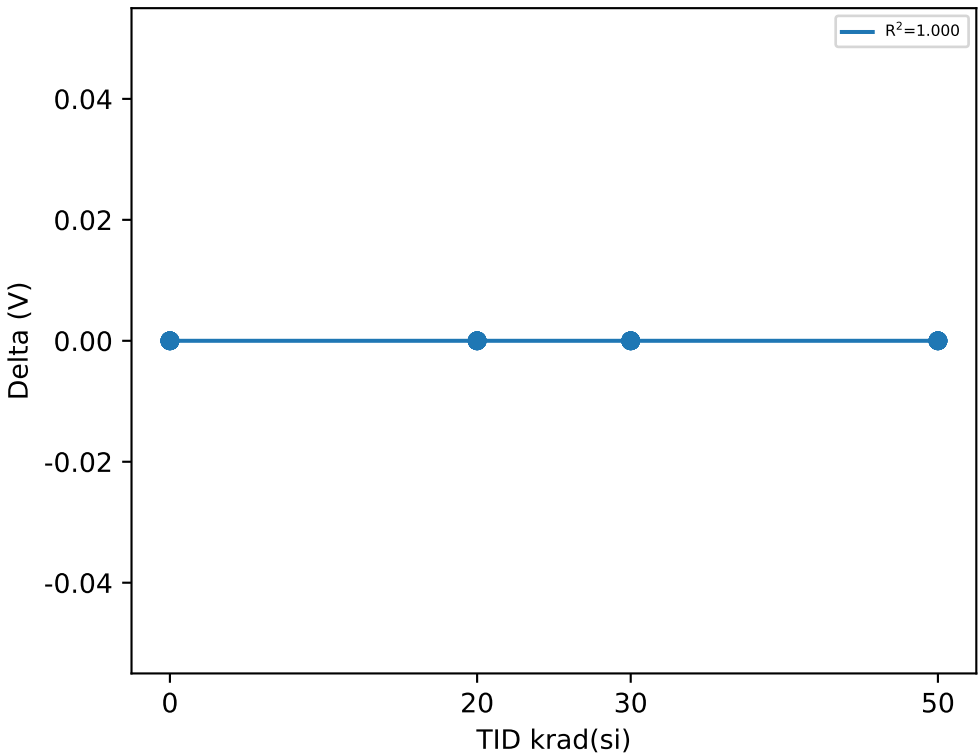
Test Statistics (V)

[illegible]

TID vs Result Stats



TID vs Post - Pre Exposure Delta



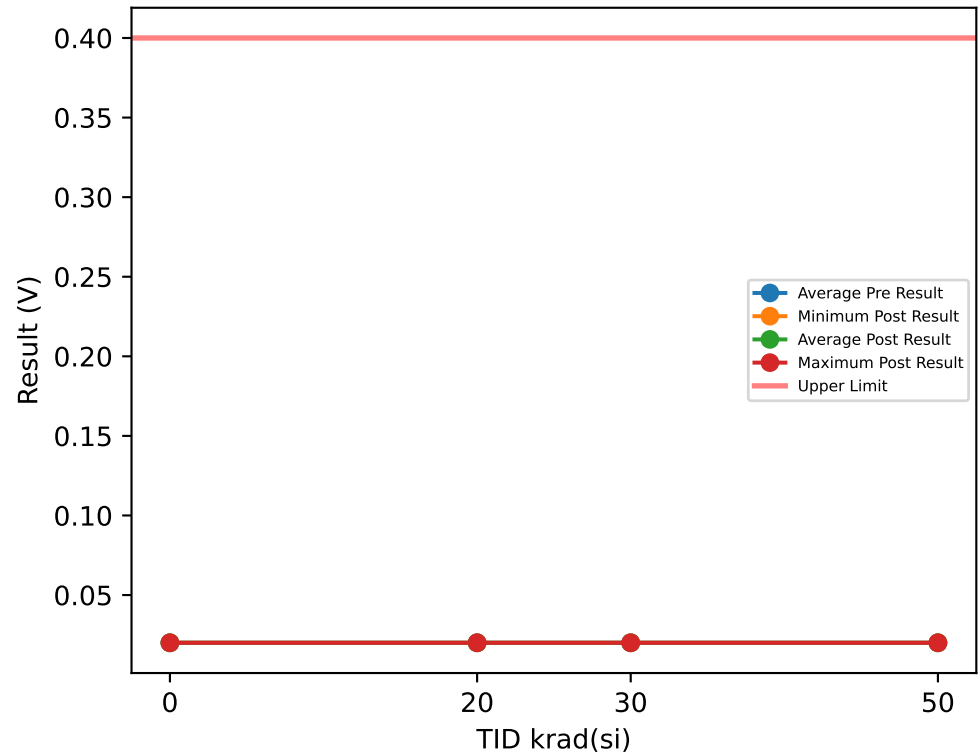
Test Results (Upper Limit = 0.4 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.02	0.02	0
516	0	CORRELATION	0.02	0.02	0
721	0	CORRELATION	0.02	0.02	0
723	0	CORRELATION	0.02	0.02	0
729	0	CORRELATION	0.02	0.02	0
990	20	Unbiased	0.02	0.02	0
991	20	Unbiased	0.02	0.02	0
992	20	Unbiased	0.02	0.02	0
993	20	Unbiased	0.02	0.02	0
994	20	Unbiased	0.02	0.02	0
995	20	Biased	0.02	0.02	0
996	20	Biased	0.02	0.02	0
997	20	Biased	0.02	0.02	0
998	20	Biased	0.02	0.02	0
999	20	Biased	0.02	0.02	0
1020	30	Unbiased	0.02	0.02	0
1021	30	Unbiased	0.02	0.02	0
1022	30	Unbiased	0.02	0.02	0
1023	30	Unbiased	0.02	0.02	0
1024	30	Unbiased	0.02	0.02	0
1025	30	Biased	0.02	0.02	0
1026	30	Biased	0.02	0.02	0
1027	30	Biased	0.02	0.02	0
1028	30	Biased	0.02	0.02	0
1029	30	Biased	0.02	0.02	0
1030	50	Unbiased	0.02	0.02	0
1031	50	Unbiased	0.02	0.02	0
1032	50	Unbiased	0.02	0.02	0
1033	50	Unbiased	0.02	0.02	0
1034	50	Unbiased	0.02	0.02	0
1035	50	Biased-84Hr-Anneal	0.02	0.02	0
1036	50	Biased-84Hr-Anneal	0.02	0.02	0
1037	50	Biased-84Hr-Anneal	0.02	0.02	0
1038	50	Biased-84Hr-Anneal	0.02	0.02	0
1039	50	Biased-84Hr-Anneal	0.02	0.02	0

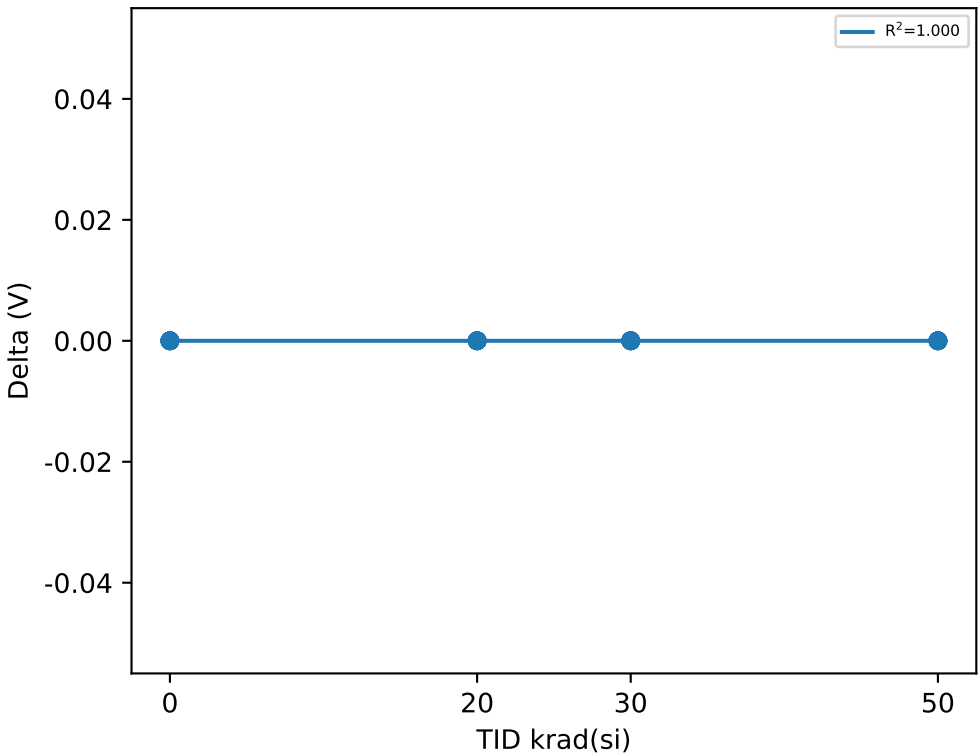
Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
20	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
30	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
50	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 0.4 (V))

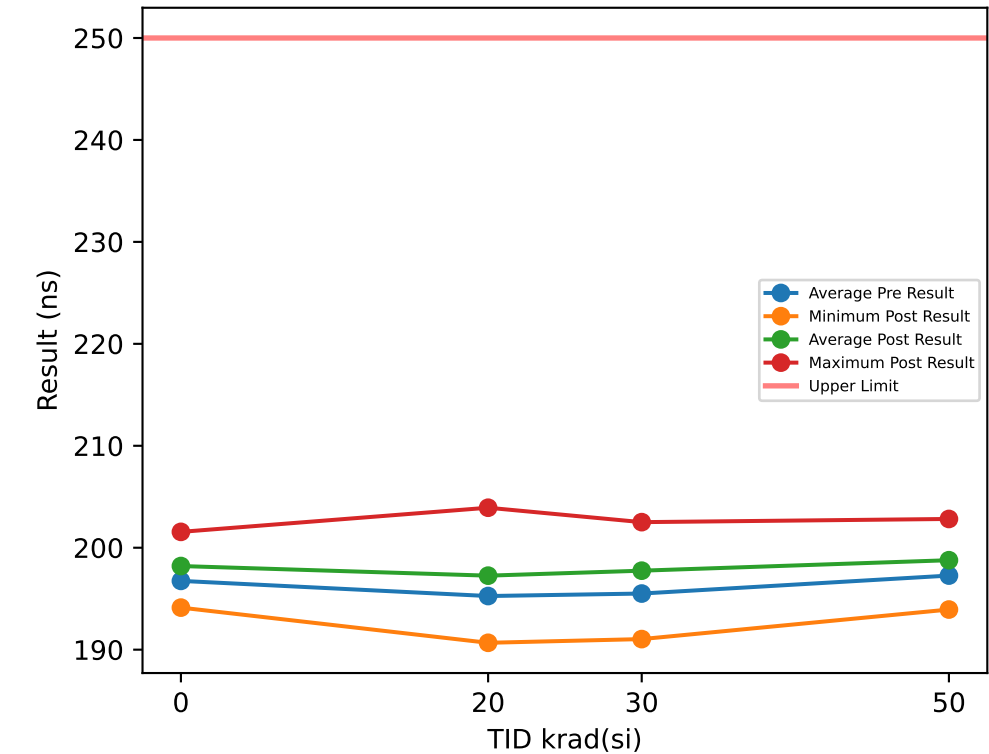
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.02	0.02	0
516	0	CORRELATION	0.02	0.02	0
721	0	CORRELATION	0.02	0.02	0
723	0	CORRELATION	0.02	0.02	0
729	0	CORRELATION	0.02	0.02	0
990	20	Unbiased	0.02	0.02	0
991	20	Unbiased	0.02	0.02	0
992	20	Unbiased	0.02	0.02	0
993	20	Unbiased	0.02	0.02	0
994	20	Unbiased	0.02	0.02	0
995	20	Biased	0.02	0.02	0
996	20	Biased	0.02	0.02	0
997	20	Biased	0.02	0.02	0
998	20	Biased	0.02	0.02	0
999	20	Biased	0.02	0.02	0
1020	30	Unbiased	0.02	0.02	0
1021	30	Unbiased	0.02	0.02	0
1022	30	Unbiased	0.02	0.02	0
1023	30	Unbiased	0.02	0.02	0
1024	30	Unbiased	0.02	0.02	0
1025	30	Biased	0.02	0.02	0
1026	30	Biased	0.02	0.02	0
1027	30	Biased	0.02	0.02	0
1028	30	Biased	0.02	0.02	0
1029	30	Biased	0.02	0.02	0
1030	50	Unbiased	0.02	0.02	0
1031	50	Unbiased	0.02	0.02	0
1032	50	Unbiased	0.02	0.02	0
1033	50	Unbiased	0.02	0.02	0
1034	50	Unbiased	0.02	0.02	0
1035	50	Biased-84Hr-Anneal	0.02	0.02	0
1036	50	Biased-84Hr-Anneal	0.02	0.02	0
1037	50	Biased-84Hr-Anneal	0.02	0.02	0
1038	50	Biased-84Hr-Anneal	0.02	0.02	0
1039	50	Biased-84Hr-Anneal	0.02	0.02	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
20	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
30	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
50	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.77 TIMING|MINON/SW/5//511k//@ON_TIME_MIN_5V

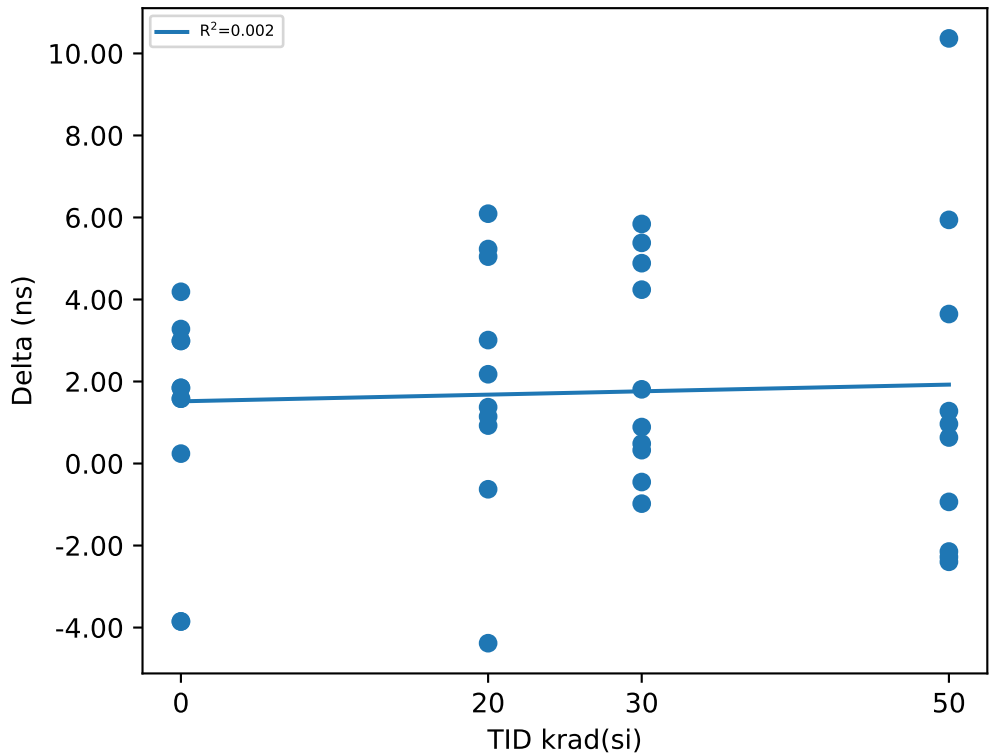
TID vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	198.28	201.56	3.2795
516	0	CORRELATION	195.82	200	4.1879
721	0	CORRELATION	195.09	195.33	0.2413
723	0	CORRELATION	197.98	194.13	-3.8511
729	0	CORRELATION	196.58	198.16	1.5817
990	20	Unbiased	196.62	197.77	1.1459
991	20	Unbiased	192.74	197.79	5.045
992	20	Unbiased	195.06	190.67	-4.3814
993	20	Unbiased	194.55	197.56	3.0104
994	20	Unbiased	192.68	192.05	-0.6276
995	20	Biased	190.52	195.75	5.2302
996	20	Biased	198.32	199.24	0.925
997	20	Biased	202.55	203.92	1.3742
998	20	Biased	199.07	201.25	2.1769
999	20	Biased	190.51	196.6	6.0922
1020	30	Unbiased	201.1	201.43	0.3259
1021	30	Unbiased	201.62	202.51	0.8894
1022	30	Unbiased	192.23	198.07	5.8418
1023	30	Unbiased	194.56	198.8	4.2396
1024	30	Unbiased	197.32	199.13	1.8093
1025	30	Biased	194.69	199.58	4.8853
1026	30	Biased	195.2	195.68	0.485
1027	30	Biased	196.8	196.35	-0.4513
1028	30	Biased	189.52	194.9	5.3809
1029	30	Biased	192.02	191.04	-0.9782
1030	50	Unbiased	185	195.37	10.367
1031	50	Unbiased	198.16	198.8	0.6344
1032	50	Unbiased	197.85	201.49	3.6453
1033	50	Unbiased	193.84	195.12	1.278
1034	50	Unbiased	188	193.94	5.9414
1035	50	Biased-84Hr-Anneal	200.97	201.94	0.9651
1036	50	Biased-84Hr-Anneal	198.77	196.62	-2.1458
1037	50	Biased-84Hr-Anneal	202.24	199.97	-2.2783
1038	50	Biased-84Hr-Anneal	205.22	202.82	-2.3965
1039	50	Biased-84Hr-Anneal	202.63	201.69	-0.9352

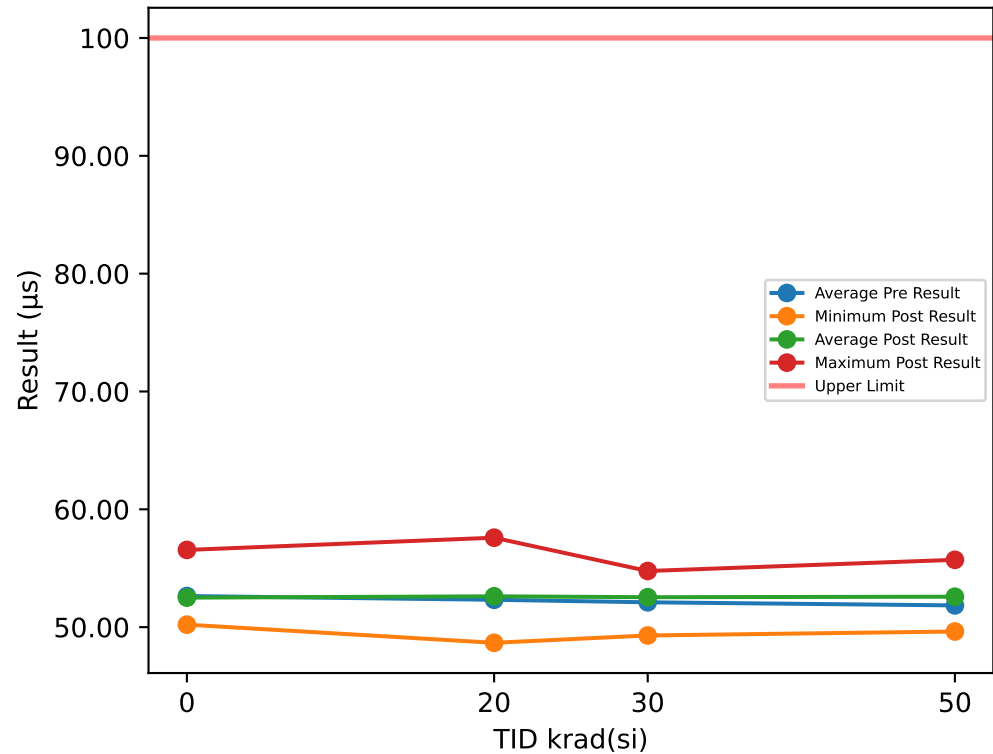
TID vs Post - Pre Exposure Delta



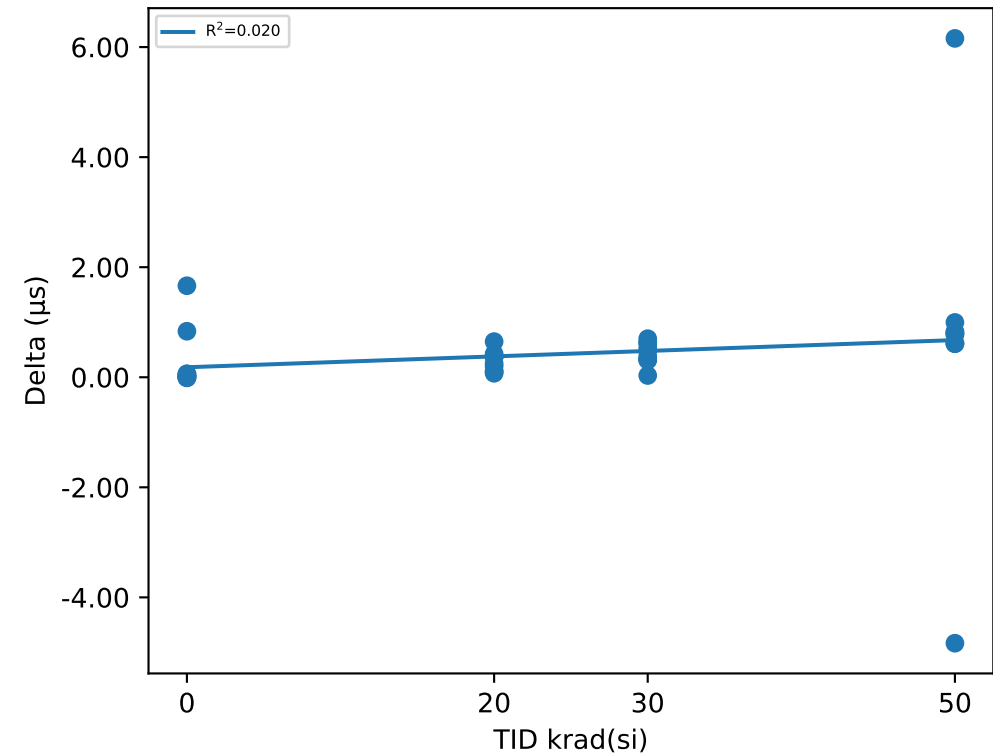
Test Statistics (ns)

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	195.09	196.75	198.28	1.3694	194.13	197.83	201.56	3.1106	-3.8511	1.0879	4.1879	3.1531
20	190.51	195.26	202.55	3.9081	190.67	197.26	203.92	3.9168	-4.3814	1.9991	6.0922	3.1164
30	189.52	195.51	201.62	3.8603	191.04	197.75	202.51	3.3674	-0.9782	2.2428	5.8418	2.586
50	185	197.27	205.22	6.5148	193.94	198.78	202.82	3.2775	-2.3965	1.5075	10.367	4.1192

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 100.0 (µs))

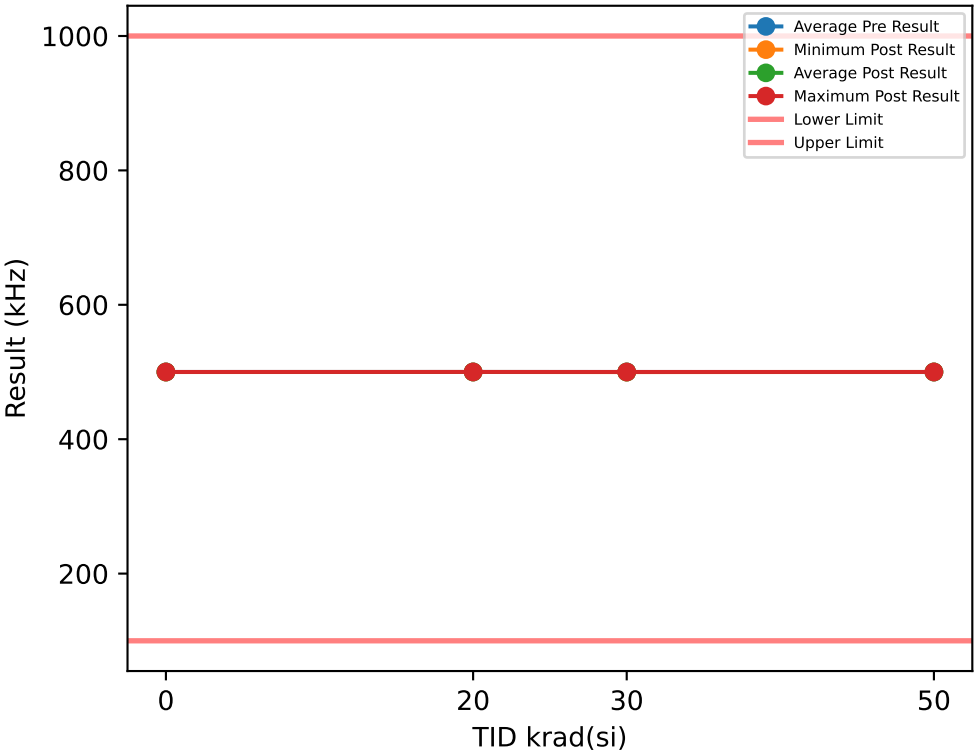
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	54.89	56.553	1.6632
516	0	CORRELATION	54.197	55.033	0.8362
721	0	CORRELATION	50.222	50.211	-0.011
723	0	CORRELATION	50.518	50.553	0.0351
729	0	CORRELATION	53.367	53.377	0.0097
990	20	Unbiased	57.221	57.59	0.3683
991	20	Unbiased	51.41	52.058	0.648
992	20	Unbiased	48.807	48.916	0.1085
993	20	Unbiased	54.128	54.2	0.0722
994	20	Unbiased	52.407	52.779	0.3718
995	20	Biased	51.14	51.565	0.4251
996	20	Biased	54.137	54.246	0.1093
997	20	Biased	52.606	52.992	0.386
998	20	Biased	52.891	53.143	0.2519
999	20	Biased	48.47	48.671	0.2009
1020	30	Unbiased	49.884	50.356	0.4724
1021	30	Unbiased	54.431	54.763	0.3319
1022	30	Unbiased	51.576	51.608	0.0319
1023	30	Unbiased	50.279	50.654	0.3746
1024	30	Unbiased	52.885	53.51	0.6252
1025	30	Biased	53.019	53.547	0.5287
1026	30	Biased	53.304	53.928	0.6237
1027	30	Biased	48.979	49.293	0.3136
1028	30	Biased	53.458	54.159	0.7009
1029	30	Biased	53.269	53.583	0.314
1030	50	Unbiased	53.424	54.197	0.7738
1031	50	Unbiased	54.719	55.715	0.996
1032	50	Unbiased	50.853	51.685	0.8315
1033	50	Unbiased	51.163	51.97	0.8077
1034	50	Unbiased	50.733	51.525	0.7922
1035	50	Biased-84Hr-Anneal	49.924	50.535	0.6109
1036	50	Biased-84Hr-Anneal	52.241	52.863	0.6218
1037	50	Biased-84Hr-Anneal	51.973	52.582	0.609
1038	50	Biased-84Hr-Anneal	54.462	49.629	-4.8328
1039	50	Biased-84Hr-Anneal	48.962	55.12	6.1577

Test Statistics (µs)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	50.222	52.639	54.89	2.1427	50.211	53.145	56.553	2.764	-0.011	0.50664	1.6632	0.73883
20	48.47	52.322	57.221	2.5904	48.671	52.616	57.59	2.6039	0.0722	0.2942	0.648	0.17972
30	48.979	52.108	54.431	1.8195	49.293	52.54	54.763	1.8936	0.0319	0.43169	0.7009	0.19964
50	48.962	51.845	54.719	1.8991	49.629	52.582	55.715	1.9479	-4.8328	0.73678	6.1577	2.5935

Device Test: 24.8 FREQ|500kHz/SYNC1/4.5//OPEN//@SYNC_FREQ_RANGE

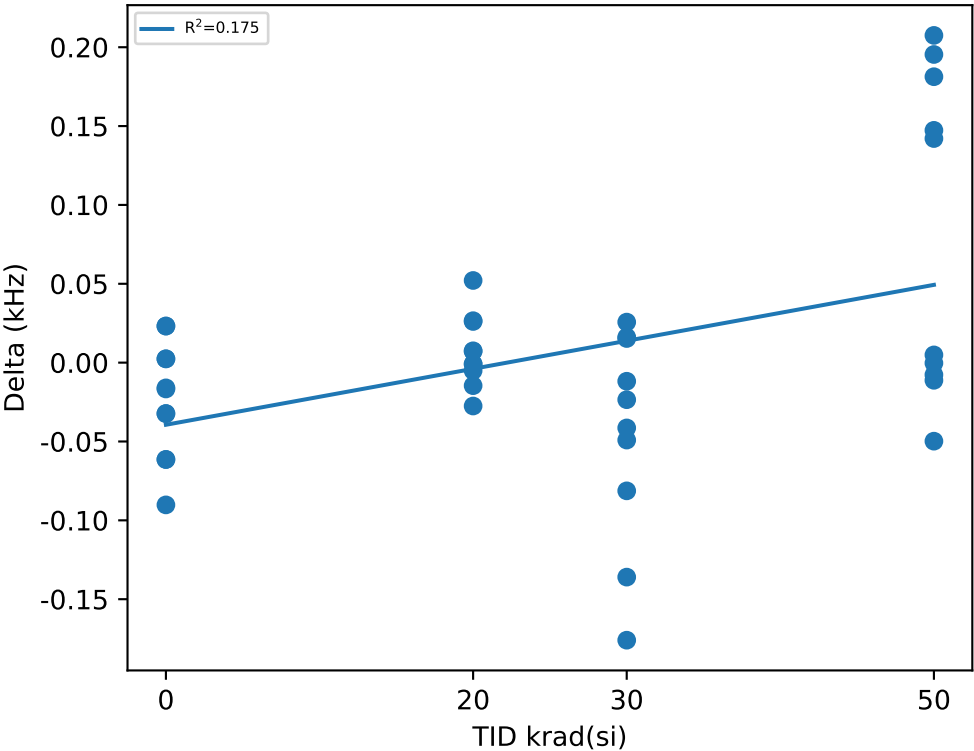
TID vs Result Stats



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

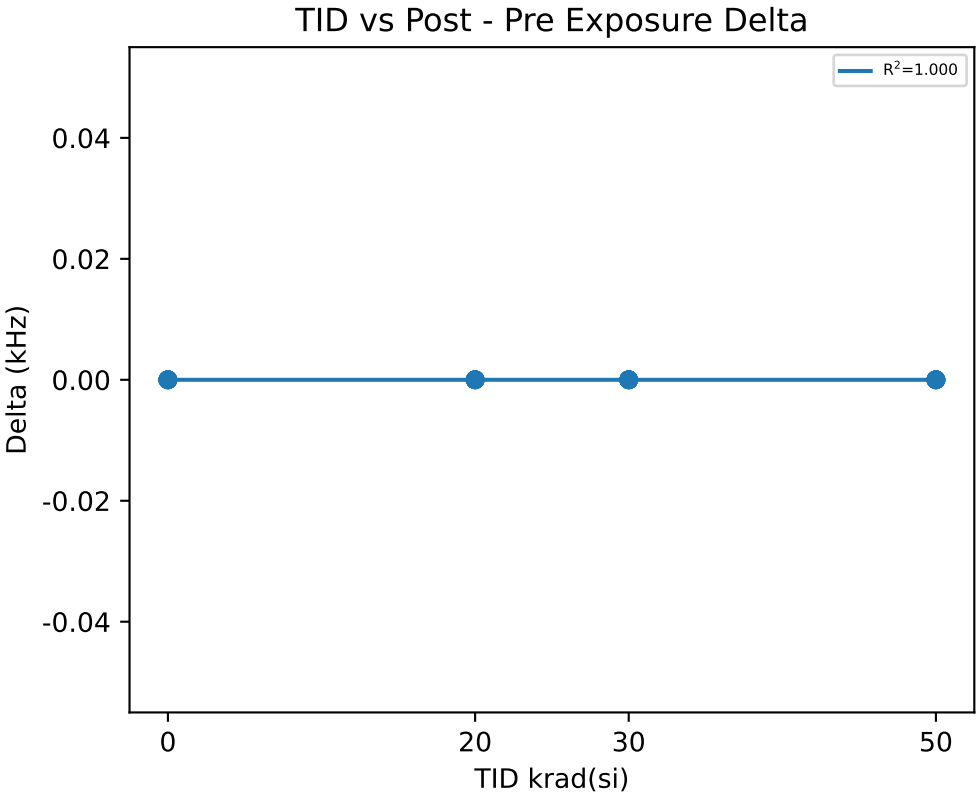
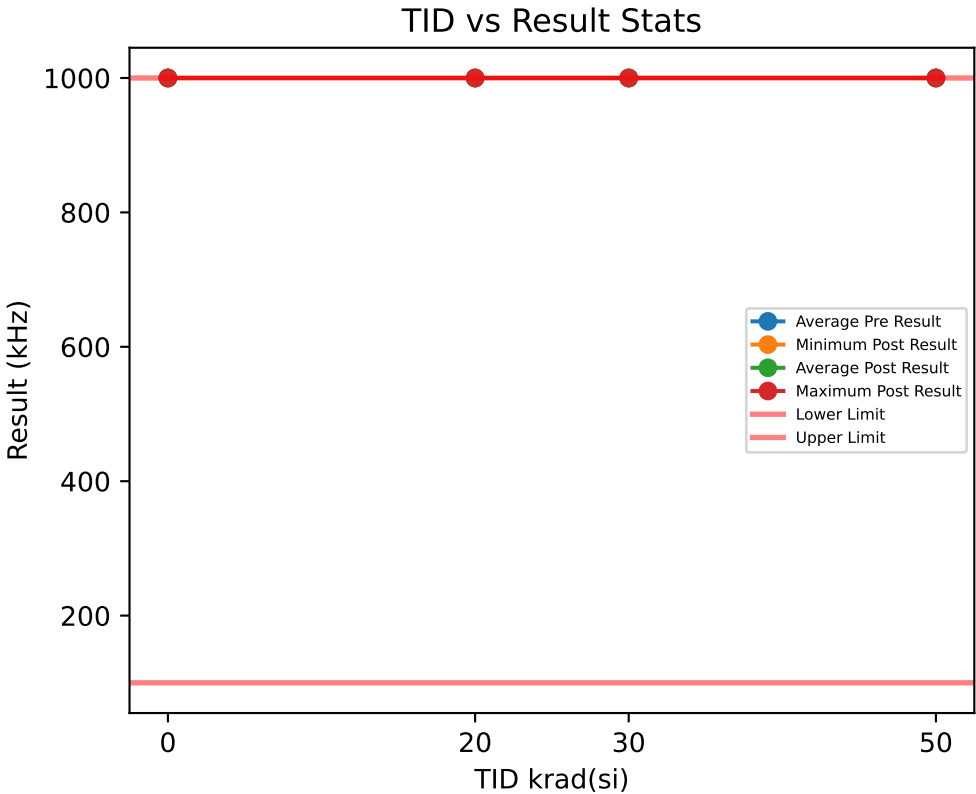
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	500.06	500.04	-0.0167
516	0	CORRELATION	500.06	500.04	-0.016
721	0	CORRELATION	500.02	499.93	-0.0902
723	0	CORRELATION	500.02	499.96	-0.0614
729	0	CORRELATION	500.01	499.98	-0.0323
990	20	Unbiased	500.02	500.01	-0.0146
991	20	Unbiased	500.05	500.05	-0.0008
992	20	Unbiased	500.03	500.02	-0.001
993	20	Unbiased	500.04	500.01	-0.0275
994	20	Unbiased	500.02	500.03	0.0075
995	20	Biased	500.02	500.05	0.0261
996	20	Biased	500.01	500.04	0.0266
997	20	Biased	500.03	500.08	0.0521
998	20	Biased	500	500.01	0.0072
999	20	Biased	500.04	500.03	-0.0051
1020	30	Unbiased	500.04	499.96	-0.0813
1021	30	Unbiased	500.03	499.86	-0.176
1022	30	Unbiased	500.03	499.99	-0.0414
1023	30	Unbiased	500.02	500	-0.0235
1024	30	Unbiased	500.01	500.04	0.0257
1025	30	Biased	500.08	499.94	-0.136
1026	30	Biased	500.02	499.97	-0.0491
1027	30	Biased	500	500.02	0.0162
1028	30	Biased	500.06	500.04	-0.0118
1029	30	Biased	500.03	500.05	0.0153
1030	50	Unbiased	500.04	500.04	-0.0003
1031	50	Unbiased	500.03	500.03	-0.0077
1032	50	Unbiased	500.03	500.02	-0.0112
1033	50	Unbiased	500.02	500.02	0.0049
1034	50	Unbiased	500.08	500.03	-0.0498
1035	50	Biased-84Hr-Anneal	499.86	500	0.1473
1036	50	Biased-84Hr-Anneal	499.87	500.05	0.1813
1037	50	Biased-84Hr-Anneal	499.87	500.01	0.1421
1038	50	Biased-84Hr-Anneal	499.86	500.06	0.1954
1039	50	Biased-84Hr-Anneal	499.85	500.05	0.2075

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	500.03	500.06	0.021649	499.93	499.99	500.04	0.048894	-0.0902	-0.04332	-0.016	0.03202
20	500	500.03	500.05	0.014108	500.01	500.03	500.08	0.023123	-0.0275	0.00705	0.0521	0.02288
30	500	500.03	500.08	0.021626	499.86	499.99	500.05	0.058829	-0.176	-0.04619	0.0257	0.067264
50	499.85	499.95	500.08	0.097481	500	500.03	500.06	0.01838	-0.0498	0.08095	0.2075	0.10174



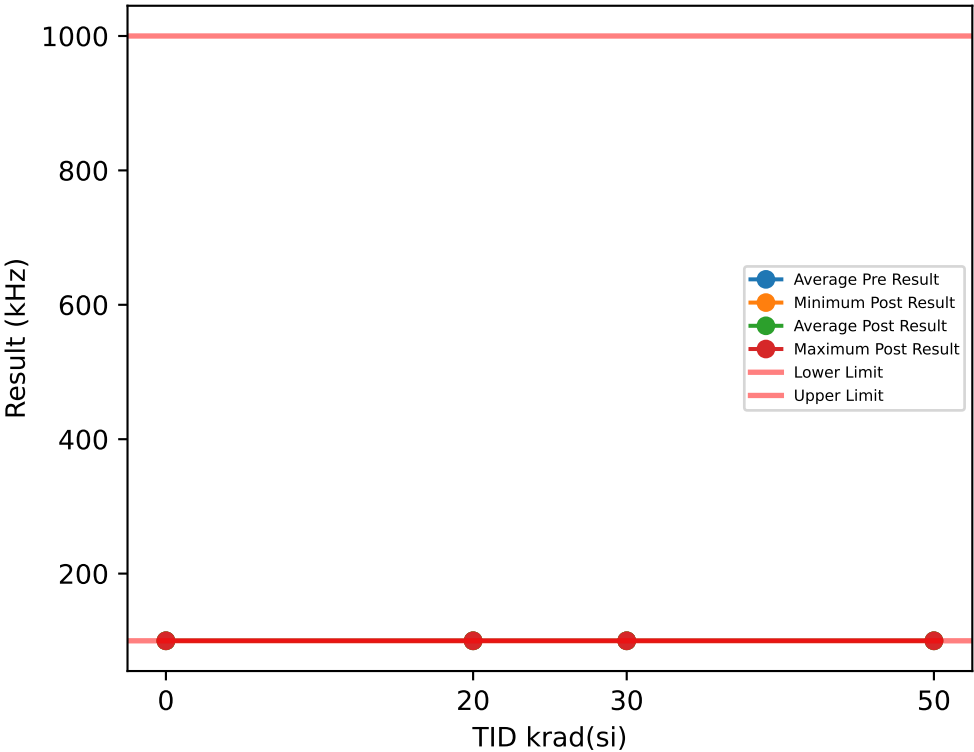
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1000	1000	0
516	0	CORRELATION	1000	1000	0
721	0	CORRELATION	1000	1000	0
723	0	CORRELATION	1000	1000	0
729	0	CORRELATION	1000	1000	0
990	20	Unbiased	1000	1000	0
991	20	Unbiased	1000	1000	0
992	20	Unbiased	1000	1000	0
993	20	Unbiased	1000	1000	0
994	20	Unbiased	1000	1000	0
995	20	Biased	1000	1000	0
996	20	Biased	1000	1000	0
997	20	Biased	1000	1000	0
998	20	Biased	1000	1000	0
999	20	Biased	1000	1000	0
1020	30	Unbiased	1000	1000	0
1021	30	Unbiased	1000	1000	0
1022	30	Unbiased	1000	1000	0
1023	30	Unbiased	1000	1000	0
1024	30	Unbiased	1000	1000	0
1025	30	Biased	1000	1000	0
1026	30	Biased	1000	1000	0
1027	30	Biased	1000	1000	0
1028	30	Biased	1000	1000	0
1029	30	Biased	1000	1000	0
1030	50	Unbiased	1000	1000	0
1031	50	Unbiased	1000	1000	0
1032	50	Unbiased	1000	1000	0
1033	50	Unbiased	1000	1000	0
1034	50	Unbiased	1000	1000	0
1035	50	Biased-84Hr-Anneal	1000	1000	0
1036	50	Biased-84Hr-Anneal	1000	1000	0
1037	50	Biased-84Hr-Anneal	1000	1000	0
1038	50	Biased-84Hr-Anneal	1000	1000	0
1039	50	Biased-84Hr-Anneal	1000	1000	0

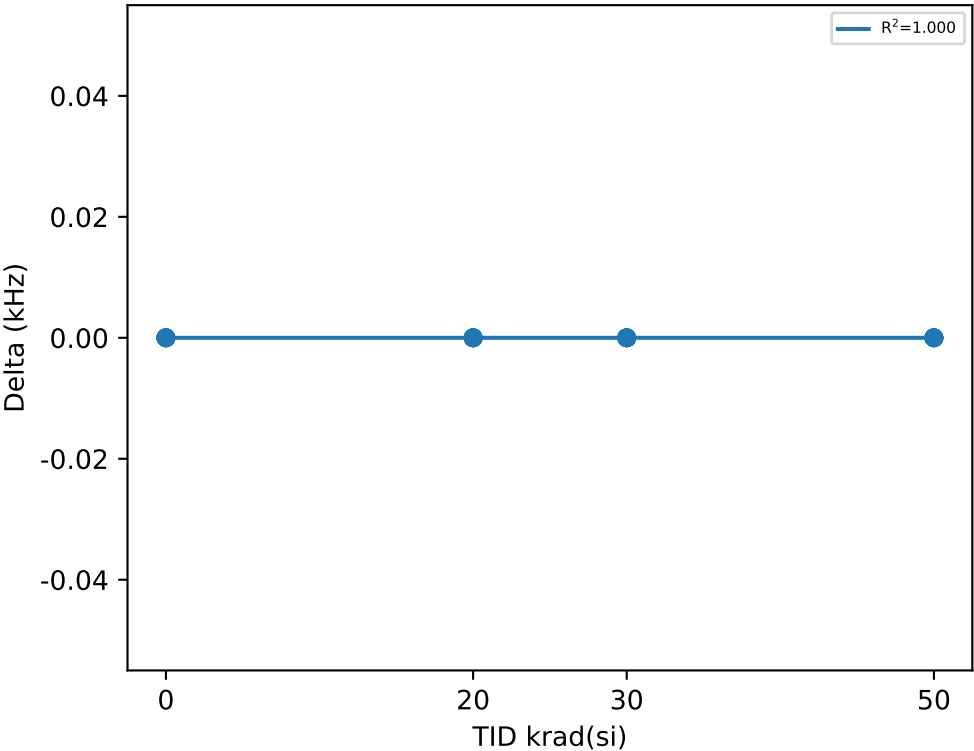
Test Statistics (kHz)

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	1000	1000	0	1000	1000	1000	0	0	0	0	0
20	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
30	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
50	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



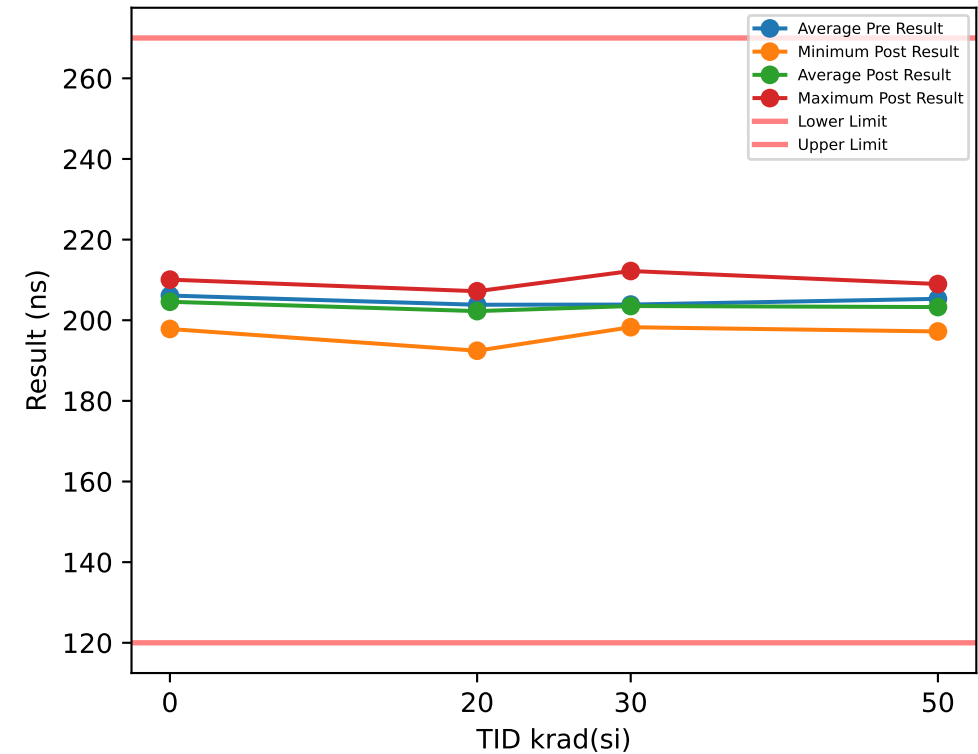
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	100	100	0
516	0	CORRELATION	100	100	0
721	0	CORRELATION	100	100	0
723	0	CORRELATION	100	100	0
729	0	CORRELATION	100	100	0
990	20	Unbiased	100	100	0
991	20	Unbiased	100	100	0
992	20	Unbiased	100	100	0
993	20	Unbiased	100	100	0
994	20	Unbiased	100	100	0
995	20	Biased	100	100	0
996	20	Biased	100	100	0
997	20	Biased	100	100	0
998	20	Biased	100	100	0
999	20	Biased	100	100	0
1020	30	Unbiased	100	100	0
1021	30	Unbiased	100	100	0
1022	30	Unbiased	100	100	0
1023	30	Unbiased	100	100	0
1024	30	Unbiased	100	100	0
1025	30	Biased	100	100	0
1026	30	Biased	100	100	0
1027	30	Biased	100	100	0
1028	30	Biased	100	100	0
1029	30	Biased	100	100	0
1030	50	Unbiased	100	100	0
1031	50	Unbiased	100	100	0
1032	50	Unbiased	100	100	0
1033	50	Unbiased	100	100	0
1034	50	Unbiased	100	100	0
1035	50	Biased-84Hr-Anneal	100	100	0
1036	50	Biased-84Hr-Anneal	100	100	0
1037	50	Biased-84Hr-Anneal	100	100	0
1038	50	Biased-84Hr-Anneal	100	100	0
1039	50	Biased-84Hr-Anneal	100	100	0

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	100	100	100	0	0	0	0	0
20	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0

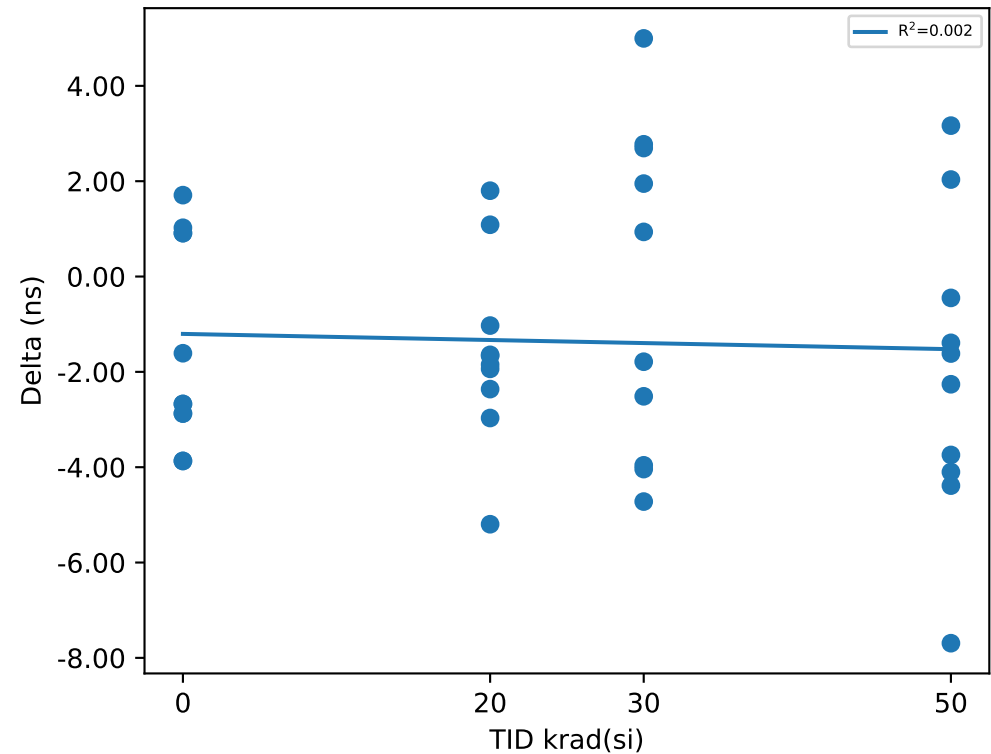
TID vs Result Stats



Test Results (Lower Limit = 120.0, Upper Limit = 270.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	208.36	210.07	1.7075
516	0	CORRELATION	203.99	202.38	-1.6093
721	0	CORRELATION	206.39	207.42	1.0231
723	0	CORRELATION	200.71	201.62	0.9106
729	0	CORRELATION	211.18	207.31	-3.8689
990	20	Unbiased	203.44	201.59	-1.8485
991	20	Unbiased	197.64	192.44	-5.1965
992	20	Unbiased	198.64	200.44	1.8008
993	20	Unbiased	206.1	207.19	1.0863
994	20	Unbiased	203.12	200.76	-2.3617
995	20	Biased	207.76	206.12	-1.6428
996	20	Biased	203.67	202.65	-1.0286
997	20	Biased	208.85	205.89	-2.9678
998	20	Biased	203.16	201.23	-1.9368
999	20	Biased	206	204.34	-1.6638
1020	30	Unbiased	201.05	206.04	4.9957
1021	30	Unbiased	211.27	212.21	0.9364
1022	30	Unbiased	206.09	201.37	-4.7211
1023	30	Unbiased	204.2	202.41	-1.787
1024	30	Unbiased	203.73	199.77	-3.9605
1025	30	Biased	200.79	198.27	-2.5129
1026	30	Biased	207.57	210.26	2.6955
1027	30	Biased	202.02	203.97	1.9497
1028	30	Biased	206.67	202.63	-4.0396
1029	30	Biased	195.5	198.27	2.7742
1030	50	Unbiased	201.6	197.22	-4.3864
1031	50	Unbiased	202.84	202.39	-0.4484
1032	50	Unbiased	203.66	199.91	-3.7431
1033	50	Unbiased	205.67	203.41	-2.2601
1034	50	Unbiased	206.98	202.88	-4.1011
1035	50	Biased-84Hr-Anneal	207.48	206.09	-1.3911
1036	50	Biased-84Hr-Anneal	205.87	204.26	-1.6154
1037	50	Biased-84Hr-Anneal	206.95	208.98	2.0347
1038	50	Biased-84Hr-Anneal	201.37	204.54	3.1657
1039	50	Biased-84Hr-Anneal	210.68	202.99	-7.6922

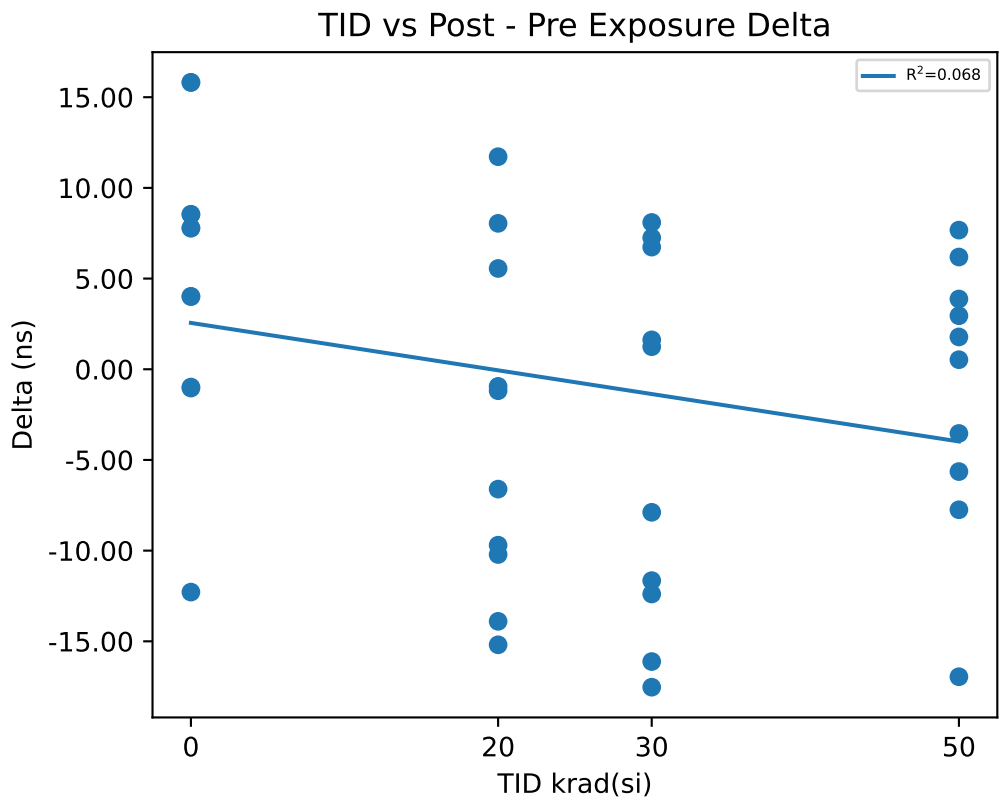
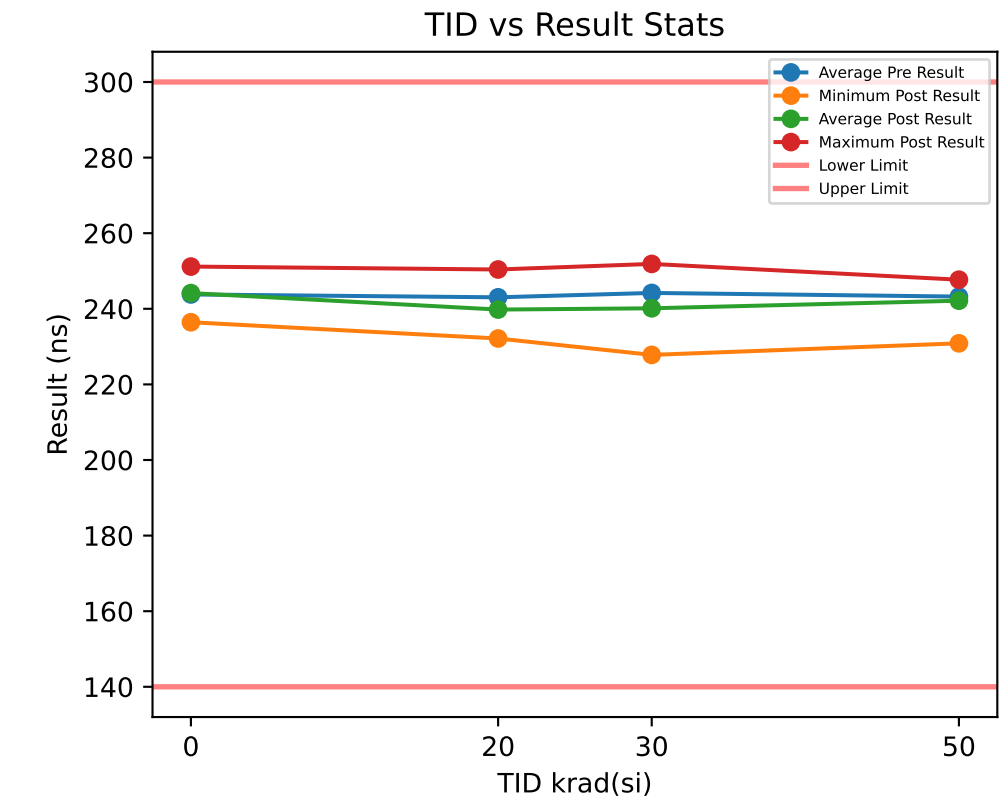
TID vs Post - Pre Exposure Delta



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	200.71	206.13	211.18	4.0173	201.62	205.76	210.07	3.6167	-3.8689	-0.3674	1.7075	2.3278
20	197.64	203.84	208.85	3.6057	192.44	202.26	207.19	4.2211	-5.1965	-1.5759	1.8008	1.9627
30	195.5	203.89	211.27	4.3762	198.27	203.52	212.21	4.7526	-4.7211	-0.36696	4.9957	3.4489
50	201.37	205.31	210.68	2.936	197.22	203.27	208.98	3.1987	-7.6922	-2.0437	3.1657	3.1883

Device Test: 24.92 TIMING|DELAY/SYNC1/12//OPEN/4011/@SYNC1_SW_DELAY_INV



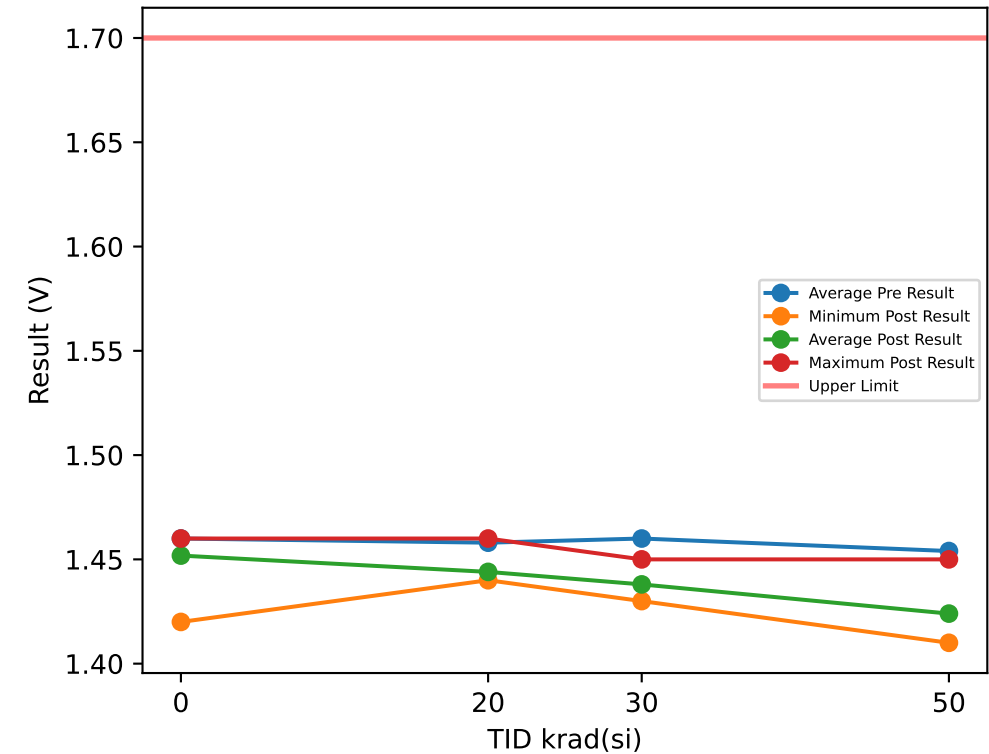
Test Results (Lower Limit = 140.0, Upper Limit = 300.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	252.21	251.17	-1.038
516	0	CORRELATION	248.46	247.47	-0.9814
721	0	CORRELATION	248.73	236.44	-12.287
723	0	CORRELATION	229.63	245.44	15.816
729	0	CORRELATION	239.95	243.96	4.0131
990	20	Unbiased	233.33	232.14	-1.1837
991	20	Unbiased	242.13	232.43	-9.6998
992	20	Unbiased	238.86	244.42	5.5576
993	20	Unbiased	249.88	235.98	-13.899
994	20	Unbiased	233.58	241.62	8.0449
995	20	Biased	251.34	250.4	-0.9439
996	20	Biased	244.43	234.22	-10.214
997	20	Biased	252.88	246.27	-6.608
998	20	Biased	233.87	245.59	11.719
999	20	Biased	250.09	234.9	-15.192
1020	30	Unbiased	240.15	248.24	8.0942
1021	30	Unbiased	253.49	241.84	-11.654
1022	30	Unbiased	251.12	238.73	-12.391
1023	30	Unbiased	248.64	232.53	-16.115
1024	30	Unbiased	233.16	240.41	7.2498
1025	30	Biased	245.33	227.81	-17.53
1026	30	Biased	250.25	251.87	1.6215
1027	30	Biased	233.16	234.41	1.244
1028	30	Biased	250.99	243.1	-7.8871
1029	30	Biased	235.65	242.39	6.7346
1030	50	Unbiased	245.57	237.82	-7.747
1031	50	Unbiased	242.68	246.56	3.8739
1032	50	Unbiased	247.82	230.87	-16.953
1033	50	Unbiased	236.63	244.3	7.6717
1034	50	Unbiased	250.77	247.23	-3.54
1035	50	Biased-84Hr-Anneal	235.94	236.47	0.5268
1036	50	Biased-84Hr-Anneal	243.72	245.5	1.7818
1037	50	Biased-84Hr-Anneal	236.14	239.09	2.9502
1038	50	Biased-84Hr-Anneal	239.71	245.89	6.1888
1039	50	Biased-84Hr-Anneal	253.34	247.7	-5.6409

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	229.63	243.79	252.21	9.1163	236.44	244.9	251.17	5.447	-12.287	1.1047	15.816	10.163
20	233.33	243.04	252.88	7.8208	232.14	239.8	250.4	6.6239	-15.192	-3.2418	11.719	9.4056
30	233.16	244.2	253.49	7.9651	227.81	240.13	251.87	7.1883	-17.53	-4.0633	8.0942	10.116
50	235.94	243.23	253.34	6.1964	230.87	242.14	247.7	5.7122	-16.953	-1.0888	7.6717	7.4851

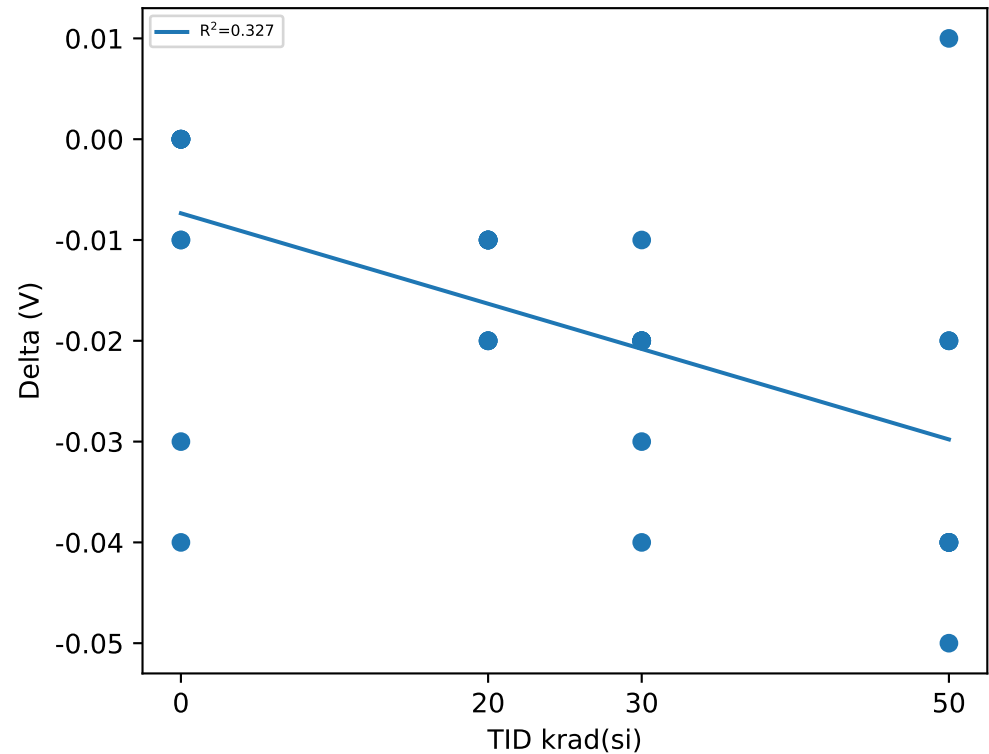
TID vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.46	1.43	-0.03
516	0	CORRELATION	1.46	1.42	-0.04
721	0	CORRELATION	1.46	1.46	0
723	0	CORRELATION	1.46	1.46	0
729	0	CORRELATION	1.46	1.45	-0.01
990	20	Unbiased	1.46	1.45	-0.01
991	20	Unbiased	1.46	1.45	-0.01
992	20	Unbiased	1.45	1.44	-0.01
993	20	Unbiased	1.47	1.46	-0.01
994	20	Unbiased	1.46	1.44	-0.02
995	20	Biased	1.46	1.44	-0.02
996	20	Biased	1.45	1.44	-0.01
997	20	Biased	1.45	1.44	-0.01
998	20	Biased	1.46	1.44	-0.02
999	20	Biased	1.46	1.44	-0.02
1020	30	Unbiased	1.47	1.43	-0.04
1021	30	Unbiased	1.45	1.43	-0.02
1022	30	Unbiased	1.45	1.43	-0.02
1023	30	Unbiased	1.46	1.43	-0.03
1024	30	Unbiased	1.45	1.43	-0.02
1025	30	Biased	1.47	1.45	-0.02
1026	30	Biased	1.46	1.45	-0.01
1027	30	Biased	1.47	1.45	-0.02
1028	30	Biased	1.47	1.45	-0.02
1029	30	Biased	1.45	1.43	-0.02
1030	50	Unbiased	1.45	1.41	-0.04
1031	50	Unbiased	1.46	1.42	-0.04
1032	50	Unbiased	1.46	1.42	-0.04
1033	50	Unbiased	1.47	1.43	-0.04
1034	50	Unbiased	1.46	1.41	-0.05
1035	50	Biased-84Hr-Anneal	1.46	1.44	-0.02
1036	50	Biased-84Hr-Anneal	1.44	1.42	-0.02
1037	50	Biased-84Hr-Anneal	1.44	1.42	-0.02
1038	50	Biased-84Hr-Anneal	1.44	1.45	0.01
1039	50	Biased-84Hr-Anneal	1.46	1.42	-0.04

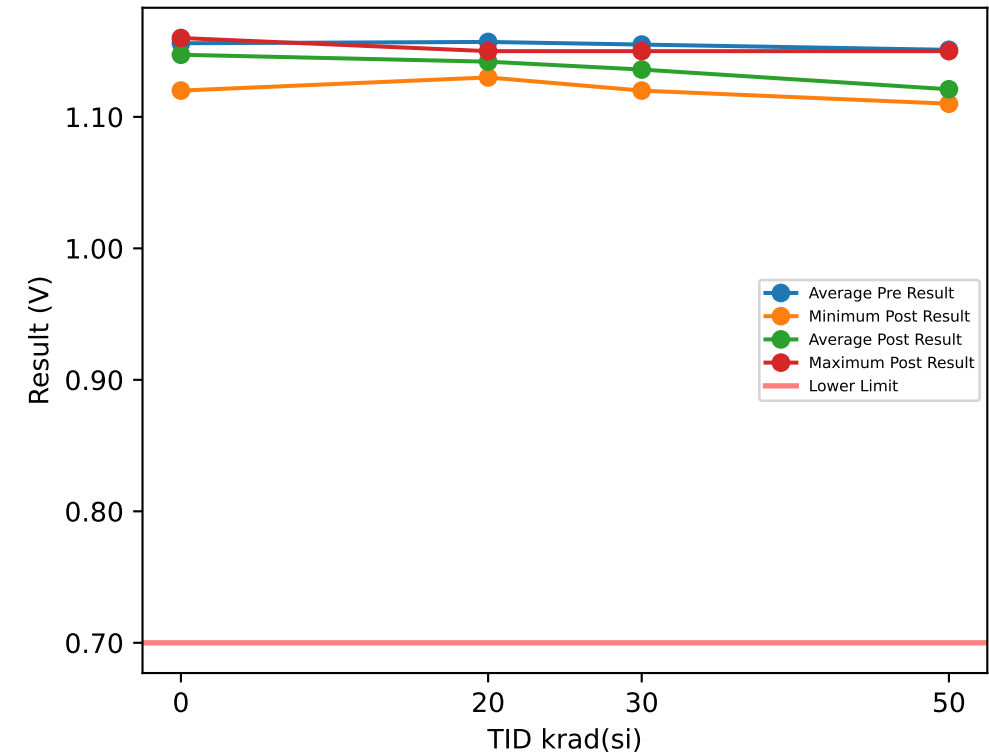
TID vs Post - Pre Exposure Delta



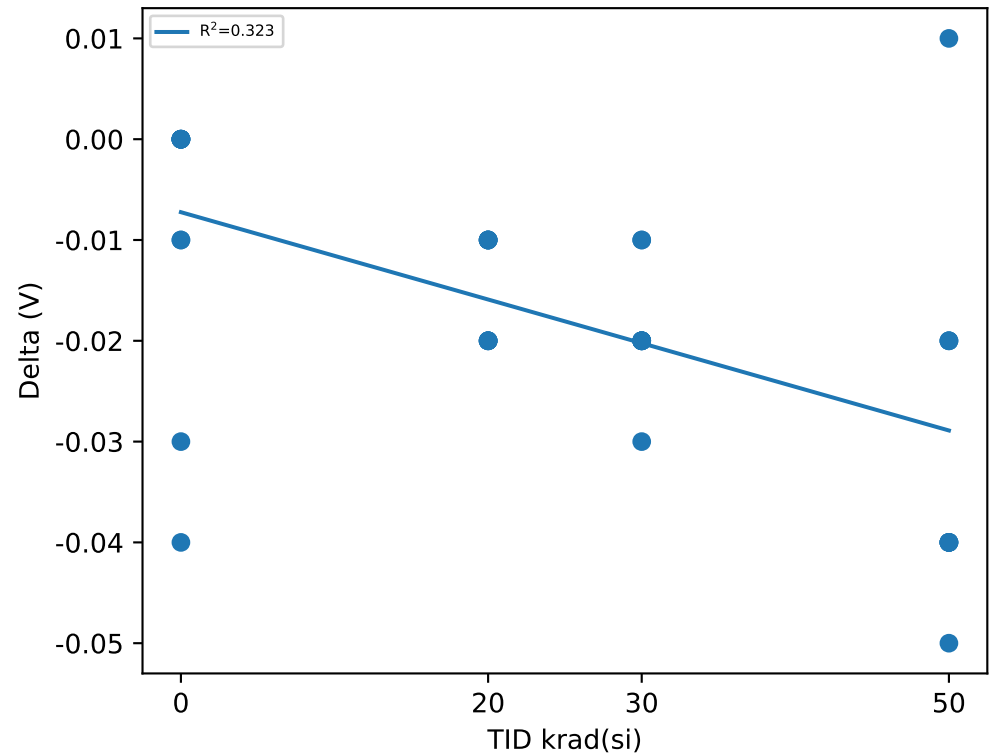
Test Statistics (V)

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	1.46	1.46	1.46	0	1.42	1.444	1.46	0.018166	-0.04	-0.016	0	0.018166
20	1.45	1.458	1.47	0.0063246	1.44	1.444	1.46	0.0069921	-0.02	-0.014	-0.01	0.005164
30	1.45	1.46	1.47	0.0094281	1.43	1.438	1.45	0.010328	-0.04	-0.022	-0.01	0.0078881
50	1.44	1.454	1.47	0.01075	1.41	1.424	1.45	0.012649	-0.05	-0.03	0.01	0.017638

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.7 (V))

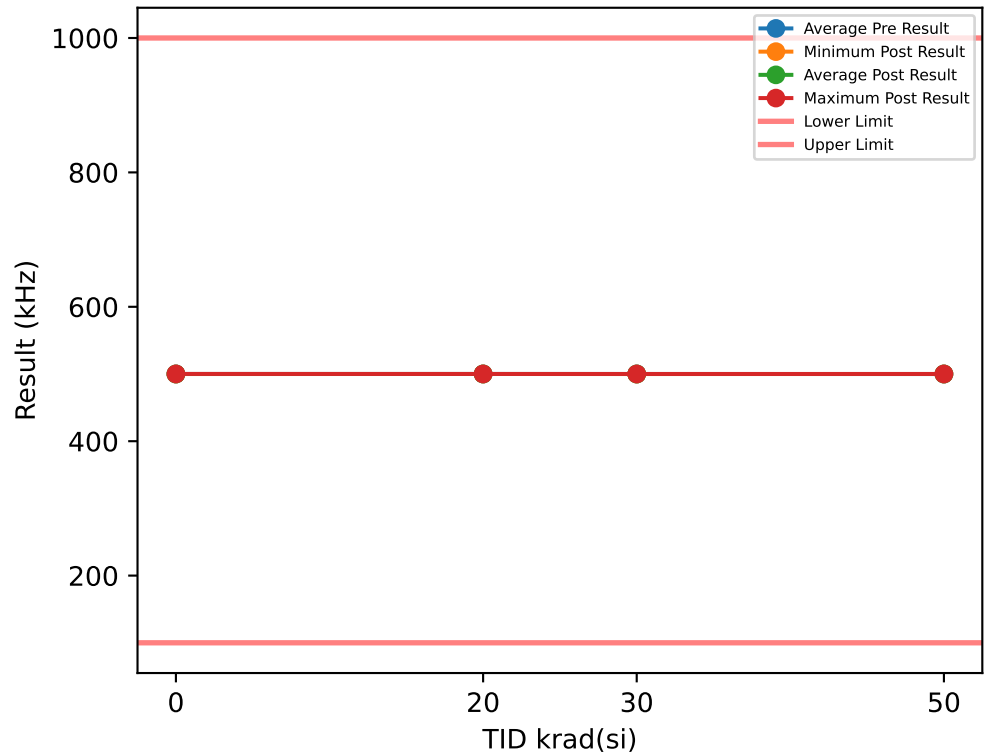
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1.16	1.13	-0.03
516	0	CORRELATION	1.16	1.12	-0.04
721	0	CORRELATION	1.15	1.15	0
723	0	CORRELATION	1.15	1.15	0
729	0	CORRELATION	1.16	1.16	0
990	20	Unbiased	1.16	1.15	-0.01
991	20	Unbiased	1.16	1.15	-0.01
992	20	Unbiased	1.15	1.14	-0.01
993	20	Unbiased	1.16	1.15	-0.01
994	20	Unbiased	1.16	1.14	-0.02
995	20	Biased	1.16	1.14	-0.02
996	20	Biased	1.16	1.14	-0.02
997	20	Biased	1.15	1.13	-0.02
998	20	Biased	1.16	1.14	-0.02
999	20	Biased	1.15	1.14	-0.01
1020	30	Unbiased	1.16	1.14	-0.02
1021	30	Unbiased	1.14	1.12	-0.02
1022	30	Unbiased	1.15	1.13	-0.02
1023	30	Unbiased	1.16	1.14	-0.02
1024	30	Unbiased	1.15	1.12	-0.03
1025	30	Biased	1.17	1.15	-0.02
1026	30	Biased	1.16	1.15	-0.01
1027	30	Biased	1.15	1.14	-0.01
1028	30	Biased	1.16	1.14	-0.02
1029	30	Biased	1.15	1.13	-0.02
1030	50	Unbiased	1.15	1.11	-0.04
1031	50	Unbiased	1.15	1.11	-0.04
1032	50	Unbiased	1.15	1.11	-0.04
1033	50	Unbiased	1.16	1.12	-0.04
1034	50	Unbiased	1.15	1.11	-0.04
1035	50	Biased-84Hr-Anneal	1.16	1.14	-0.02
1036	50	Biased-84Hr-Anneal	1.14	1.12	-0.02
1037	50	Biased-84Hr-Anneal	1.14	1.12	-0.02
1038	50	Biased-84Hr-Anneal	1.14	1.15	0.01
1039	50	Biased-84Hr-Anneal	1.17	1.12	-0.05

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	1.15	1.156	1.16	0.0054772	1.12	1.142	1.16	0.016432	-0.04	-0.014	0	0.019494
20	1.15	1.157	1.16	0.0048305	1.13	1.142	1.15	0.0063246	-0.02	-0.015	-0.01	0.0052705
30	1.14	1.155	1.17	0.0084984	1.12	1.136	1.15	0.01075	-0.03	-0.019	-0.01	0.0056765
50	1.14	1.151	1.17	0.0099443	1.11	1.121	1.15	0.013703	-0.05	-0.03	0.01	0.017638

Device Test: 24.97 FREQ|500kHz/SYNC1/12//OPEN//@SYNC_FREQ_RANGE

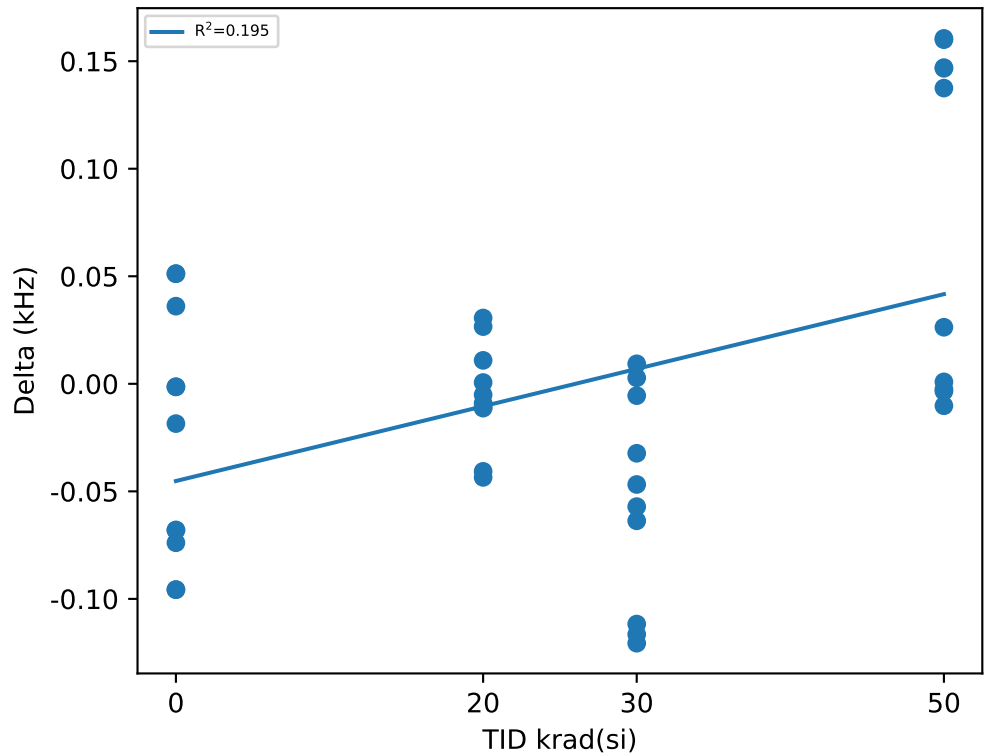
TID vs Result Stats



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

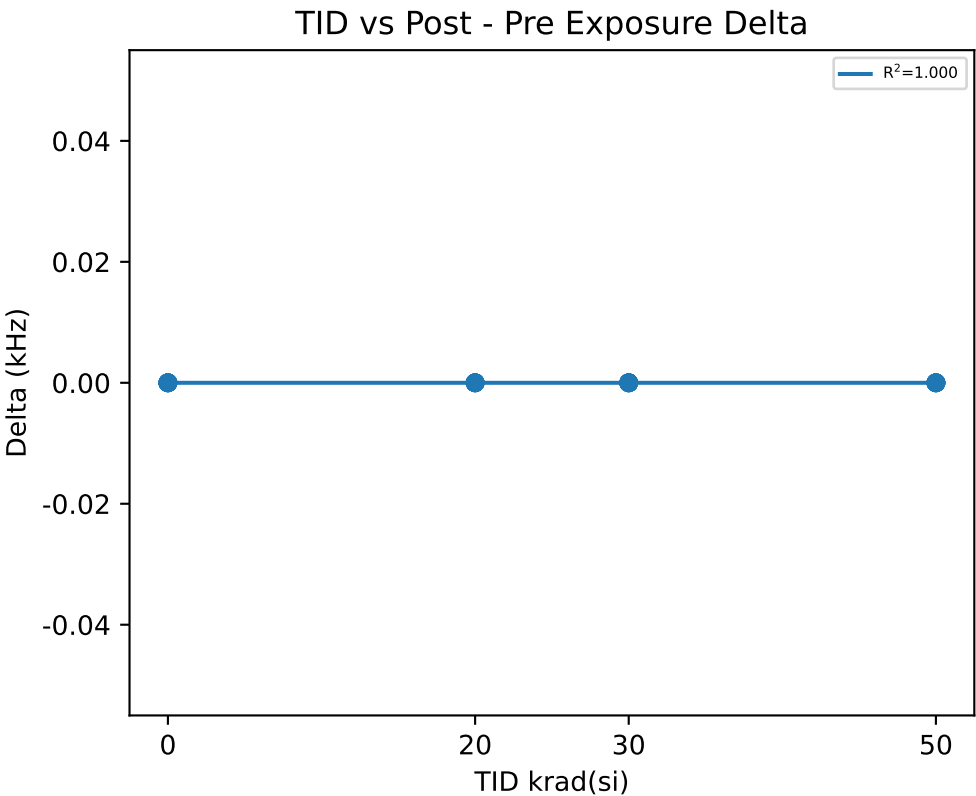
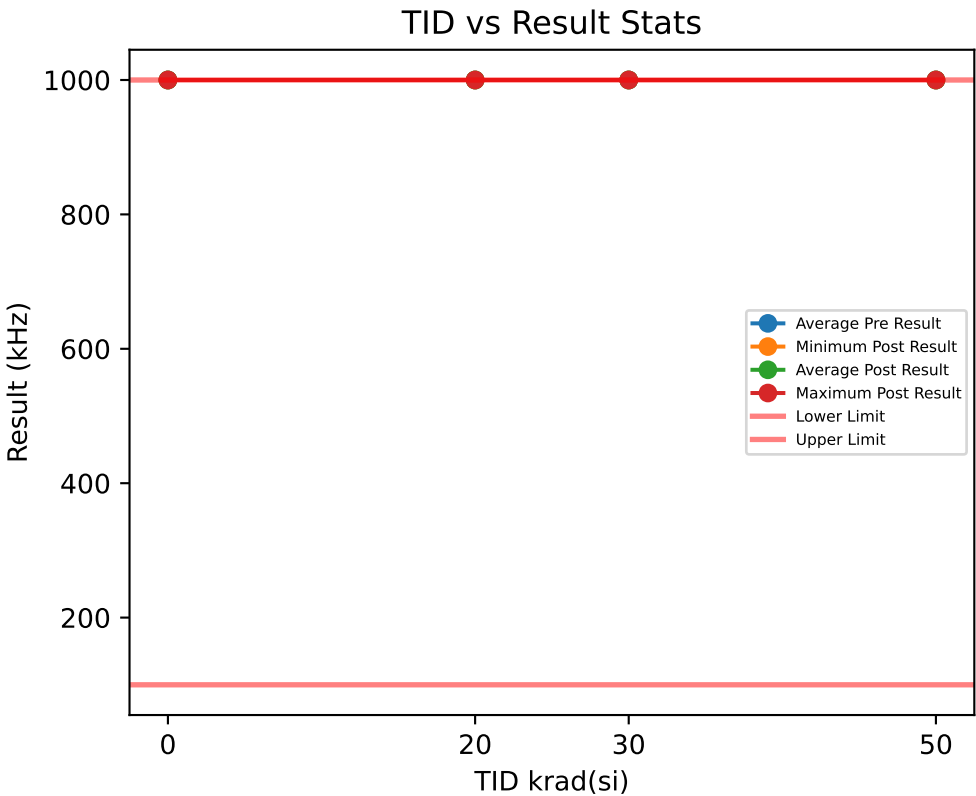
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	500.03	500.06	0.0361
516	0	CORRELATION	500.04	500.02	-0.0185
721	0	CORRELATION	500.01	499.94	-0.0739
723	0	CORRELATION	500.04	499.94	-0.0957
729	0	CORRELATION	500.04	499.97	-0.068
990	20	Unbiased	499.98	500.01	0.0306
991	20	Unbiased	500.05	500.01	-0.0435
992	20	Unbiased	500.05	500.04	-0.0051
993	20	Unbiased	500.04	500.02	-0.0113
994	20	Unbiased	500.04	500.02	-0.011
995	20	Biased	500.06	500.05	-0.009
996	20	Biased	500.02	500.05	0.0266
997	20	Biased	500.03	500.05	0.0109
998	20	Biased	500.03	500.03	0.0006
999	20	Biased	500.05	500.01	-0.0407
1020	30	Unbiased	500.05	499.99	-0.0637
1021	30	Unbiased	500.04	499.93	-0.1117
1022	30	Unbiased	500.09	499.98	-0.1165
1023	30	Unbiased	500.07	500.02	-0.0468
1024	30	Unbiased	500.02	500.03	0.0093
1025	30	Biased	500.05	499.93	-0.1206
1026	30	Biased	500.03	499.97	-0.0571
1027	30	Biased	500.01	500.01	0.0028
1028	30	Biased	500.05	500.02	-0.0323
1029	30	Biased	500.03	500.02	-0.0055
1030	50	Unbiased	500.01	500.04	0.0263
1031	50	Unbiased	500.04	500.03	-0.0102
1032	50	Unbiased	500.02	500.02	-0.0035
1033	50	Unbiased	500.01	500.01	0.0009
1034	50	Unbiased	500.05	500.04	-0.0025
1035	50	Biased-84Hr-Anneal	499.84	499.98	0.147
1036	50	Biased-84Hr-Anneal	499.87	500.01	0.1375
1037	50	Biased-84Hr-Anneal	499.84	500	0.16
1038	50	Biased-84Hr-Anneal	499.88	500.03	0.1467
1039	50	Biased-84Hr-Anneal	499.86	500.02	0.1606

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	500.03	500.04	0.011398	499.94	499.99	500.06	0.053458	-0.0957	-0.044	0.0361	0.052937
20	499.98	500.04	500.06	0.022813	500.01	500.03	500.05	0.015273	-0.0435	-0.00519	0.0306	0.024491
30	500.01	500.04	500.09	0.024822	499.93	499.99	500.03	0.037134	-0.1206	-0.05421	0.0093	0.049309
50	499.84	499.94	500.05	0.090222	499.98	500.02	500.04	0.017917	-0.0102	0.07628	0.1606	0.078921



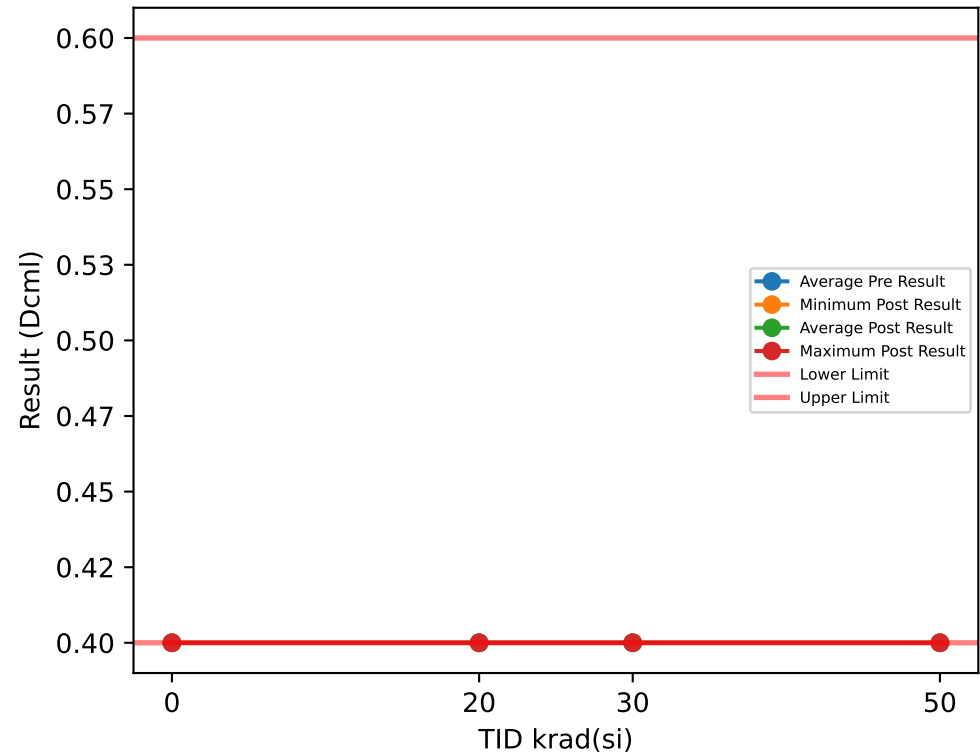
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	1000	1000	0
516	0	CORRELATION	1000	1000	0
721	0	CORRELATION	1000	1000	0
723	0	CORRELATION	1000	1000	0
729	0	CORRELATION	1000	1000	0
990	20	Unbiased	1000	1000	0
991	20	Unbiased	1000	1000	0
992	20	Unbiased	1000	1000	0
993	20	Unbiased	1000	1000	0
994	20	Unbiased	1000	1000	0
995	20	Biased	1000	1000	0
996	20	Biased	1000	1000	0
997	20	Biased	1000	1000	0
998	20	Biased	1000	1000	0
999	20	Biased	1000	1000	0
1020	30	Unbiased	1000	1000	0
1021	30	Unbiased	1000	1000	0
1022	30	Unbiased	1000	1000	0
1023	30	Unbiased	1000	1000	0
1024	30	Unbiased	1000	1000	0
1025	30	Biased	1000	1000	0
1026	30	Biased	1000	1000	0
1027	30	Biased	1000	1000	0
1028	30	Biased	1000	1000	0
1029	30	Biased	1000	1000	0
1030	50	Unbiased	1000	1000	0
1031	50	Unbiased	1000	1000	0
1032	50	Unbiased	1000	1000	0
1033	50	Unbiased	1000	1000	0
1034	50	Unbiased	1000	1000	0
1035	50	Biased-84Hr-Anneal	1000	1000	0
1036	50	Biased-84Hr-Anneal	1000	1000	0
1037	50	Biased-84Hr-Anneal	1000	1000	0
1038	50	Biased-84Hr-Anneal	1000	1000	0
1039	50	Biased-84Hr-Anneal	1000	1000	0

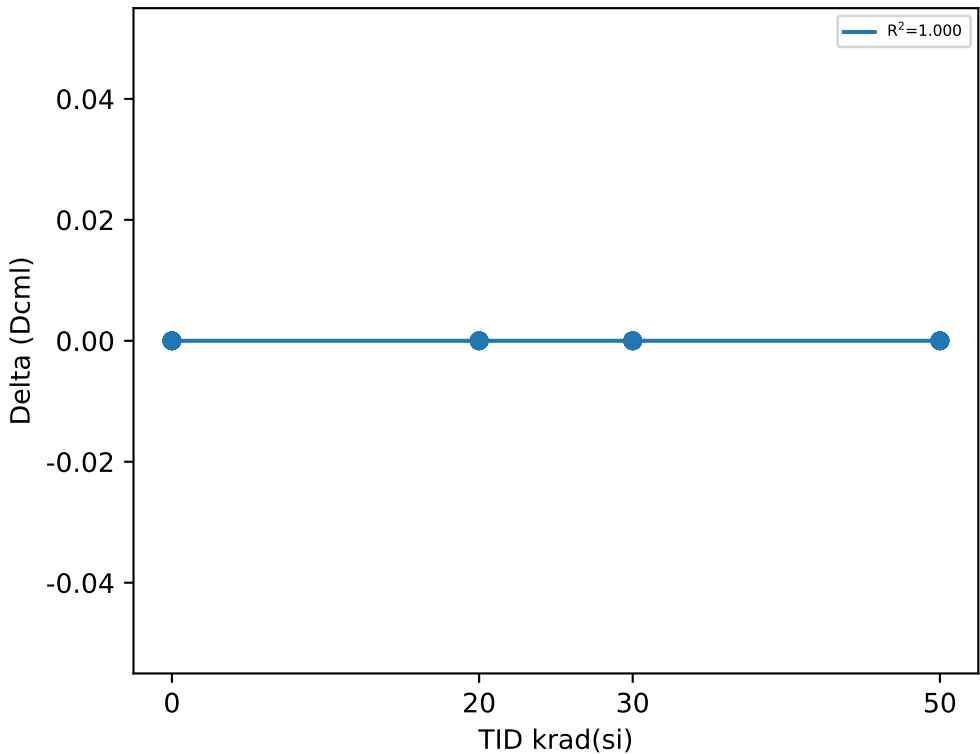
Test Statistics (kHz)

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	1000	1000	0	1000	1000	1000	0	0	0	0	0
20	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
30	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
50	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
508	0	CORRELATION	0.4	0.4	0
516	0	CORRELATION	0.4	0.4	0
721	0	CORRELATION	0.4	0.4	0
723	0	CORRELATION	0.4	0.4	0
729	0	CORRELATION	0.4	0.4	0
990	20	Unbiased	0.4	0.4	0
991	20	Unbiased	0.4	0.4	0
992	20	Unbiased	0.4	0.4	0
993	20	Unbiased	0.4	0.4	0
994	20	Unbiased	0.4	0.4	0
995	20	Biased	0.4	0.4	0
996	20	Biased	0.4	0.4	0
997	20	Biased	0.4	0.4	0
998	20	Biased	0.4	0.4	0
999	20	Biased	0.4	0.4	0
1020	30	Unbiased	0.4	0.4	0
1021	30	Unbiased	0.4	0.4	0
1022	30	Unbiased	0.4	0.4	0
1023	30	Unbiased	0.4	0.4	0
1024	30	Unbiased	0.4	0.4	0
1025	30	Biased	0.4	0.4	0
1026	30	Biased	0.4	0.4	0
1027	30	Biased	0.4	0.4	0
1028	30	Biased	0.4	0.4	0
1029	30	Biased	0.4	0.4	0
1030	50	Unbiased	0.4	0.4	0
1031	50	Unbiased	0.4	0.4	0
1032	50	Unbiased	0.4	0.4	0
1033	50	Unbiased	0.4	0.4	0
1034	50	Unbiased	0.4	0.4	0
1035	50	Biased-84Hr-Anneal	0.4	0.4	0
1036	50	Biased-84Hr-Anneal	0.4	0.4	0
1037	50	Biased-84Hr-Anneal	0.4	0.4	0
1038	50	Biased-84Hr-Anneal	0.4	0.4	0
1039	50	Biased-84Hr-Anneal	0.4	0.4	0

Test Statistics (Dcml)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
20	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
30	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
50	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

6 Revision History

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

Changes from Revision A (November 2025) to Revision B (December 2025)	Page
• Corrected device part number.....	1
• Corrected the electrical characteristics table to match the device datasheet.....	6
• Updated Appendix A data.....	14

Changes from Revision * (April 2025) to Revision A (November 2025)	Page
• Updated the report to include data from full production devices, removing all pre-production device data and details.....	0

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), 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 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](#), [TI's General Quality Guidelines](#), or other applicable terms available either on [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. Unless TI explicitly designates a product as custom or customer-specified, TI products are standard, catalog, general purpose devices.

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

Copyright © 2025, Texas Instruments Incorporated

Last updated 10/2025