Radiation Report

TPS7H3034-SP Neutron Displacement Damage (NDD) Characterization Report

ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the TPS7H3034-SP, 3V to 14V, four-channel radiation-hardness-assured power-supply supervisor with watchdog. The TPS7H3034-SP showed a strong degree of hardness to neutron irradiation up to fluence level 1×10^{13} n/cm^2 . The neutron irradiation test is a destructive test. Test procedure follows MIL-STD-883 method 1017 as guidance. The purpose of this test is to determine the device susceptibility to non-ionizing energy loss (NIEL) degradation. Objectives of the test are, to detect and measure the degradation of critical device parameters as a function of neutron fluence and to determine if these parameters are within specified limits after exposure to a specified level of neutron fluence.

Table of Contents

1 Device Information 1
1.1 Product Description 1
1.2 Device Details 2
2 Total Dose Test Setup 3
2.1 Test Overview 3
2.2 Test Facilities 3
2.3 Test Setup Details 3
2.4 Test Configuration and Condition 4
3 NDD Characterization Test Results 5
3.1 NDD Characterization Summary Results 5
3.2 Specification Compliance Matrix 6
4 Applicable and Reference Documents 11
4.1 Applicable Documents 11
4.2 Reference Documents 11
A Appendix: NDD Report Data 11

List of Figures

Figure 1-1. TPS7H3034-SP Device 2

List of Tables

Table 1-1. Device and Exposure Details 2
Table 2-1. Neutron Irradiation Conditions 4

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1 Device Information

1.1 Product Description

The TPS7H3034-SP is an integrated, 3V to 14V, four-channel radiation-hardness-assured power-supply supervisor with watchdog. An accurate 599mV ±1% threshold voltage and a 24µA ±3% hysteresis current provide programmable monitoring voltages. A programmable delay time is globally programmed via a single resistor. In addition a PWRGD output is provided to monitor the global power tree status. The device also incorporates a positive edge detection watchdog timer to monitor an external processor for coherent execution. External faults can be propagated to the system by using the SR_UVLO input.

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The TPS7H3034-SP is packaged in a 22-pin CFP (ceramic flat package) package. A standard microcircuit drawing (SMD) is available for the QML variant, 5962R2420603VXC.

1.2 Device Details

Table 1-1 lists the device information used in the initial NDD characterization.

Table 1-1. Device and Exposure Details

NDD Exposure Details	
TI Device	TPS7H3034-SP
TI Part Name	5962R2420603VXC
Package	22-pin CFP (HFT)
Technology	LBC7
Lot Number / Date Code	6004532 / 2617A
Sample Quantity	12 + 3 control units
Exposure Facility	VPT Rad
Neutron Fluence (1-MeV equivalent) Level	1×10^{12}, 5×10^{12}, 1×10^{13} n/cm^2
Irradiation Temperature	Ambient room temperature

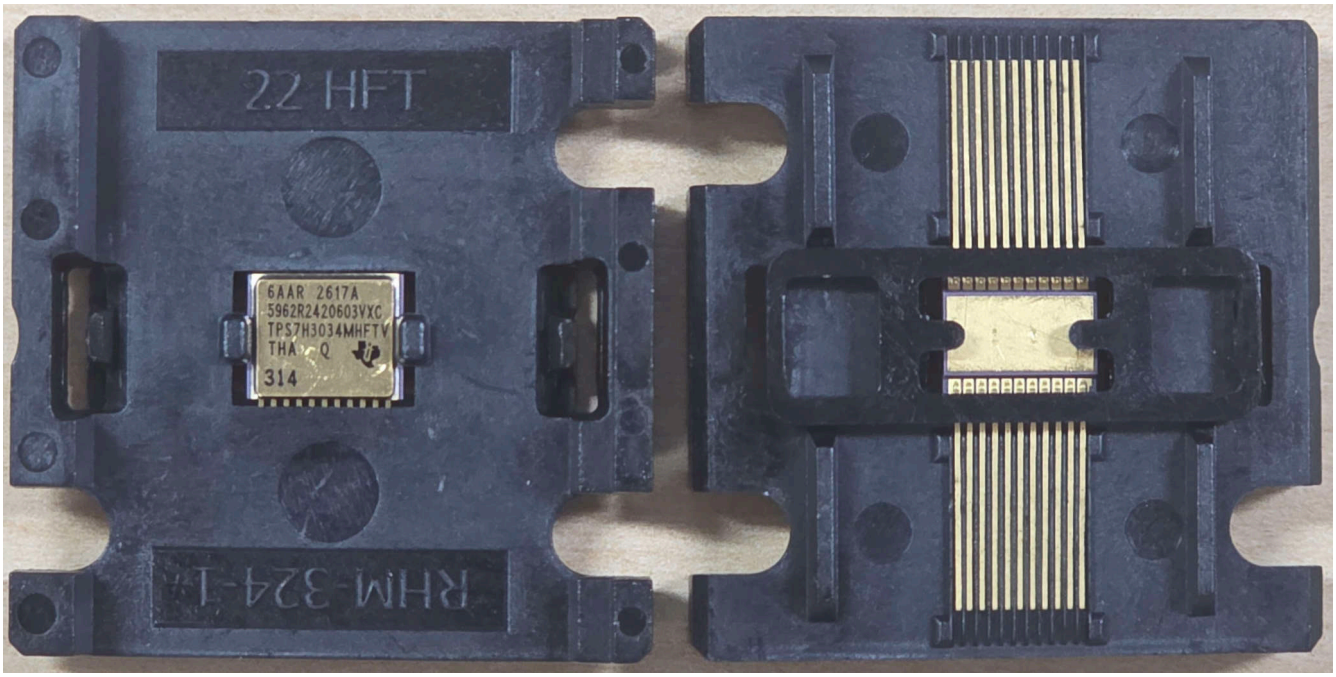

Figure 1-1. TPS7H3034-SP Device

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2 Total Dose Test Setup

2.1 Test Overview

General test procedures adhere to MIL-STD-883, Method 1017 as a guide for neutron irradiation. The TPS7H3034-SP was electrically tested using the production automated test equipment (ATE) program at an ambient room temperature of 25°C before and after neutron irradiation.

2.2 Test Facilities

VPT Rad performs all neutron displacement damage irradiations in a Low-Enriched, open-pool, water moderated, thermal neutron reactor. VPT Rad uses flat-plate type fuel, and having a maximum thermal energy output of up to 1MW. The Fast Neutron Irradiator (FNI) faces one side of the reactor core, the design produces a geometrical planar beam of fast neutrons that is approximately uniform over an area of 12in × 20in. Lead and thermal neutron absorbing compounds are combined to filter out both fission gammas and thermal neutrons. The ratio of fast-to-thermal neutrons is approximately 400:1, with a gamma exposure of less than 150rad (Si) for a 1E12 n/cm2 (1MeV Si equivalent) exposure. The FNI can accommodate a sample or samples with size up to 30cm in diameter and 15 cm thick including packaging materials. The minimum neutron fluence rate is 1E6 n/cm2-s. The maximum neutron fluence rate is approximately 1.0 E11 n/cm2-s. Both values are 1MeV Si equivalent.

The neutron fluence rate is determined using the previously measured neutron radiation field for the FNI, performed in accordance with ASTM standards (ASTM F1190), and correlated to the measured reactor power level. The neutron dose is timed to meet the customer-specified fluence for the irradiation. Neutron dosimetry meeting ASTM standards (ASTM E265) is used to track and verify irradiations meet the required minimum. The facility retains source-suitability with the Defense Logistics Agency (DLA) Laboratory Suitability Program for ASTM Test Method 1017. The DUTS are typically irradiation in an unbiased condition as per TM1017. If bias conditions are required, the conditions can be maintained through dry thimbles connected to the irradiation volume.

2.3 Test Setup Details

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

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2.4 Test Configuration and Condition

Table 2-1. Neutron Irradiation Conditions

Group	Sample QTY	NEUTRON FLUENCE (n/cm^2)	BIAS
A	4	1.0 x 10^{12}	Unbias
B	4	5.0 x 10^{12}	Unbias
C	4	1.0 x 10^{13}	Unbias
Control Units	3	N/A	N/A

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3 NDD Characterization Test Results

3.1 NDD Characterization Summary Results

The results show that all devices were fully functional and within specification limits. A sample size of twelve units were exposed for neutron irradiation and additional unirradiated control units were used as correlation. Overall, the TPS7H3034-SP showed a strong degree of hardness to Neutron irradiation up to fluence level 1 × 10^{13}n/cm^2. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each fluence level. The parameters that showed a greater degree of change between pre- and post- irradiation were still within the Electrical Performance Characteristics specified in the Data Sheet Electrical Parameters table. See Table 3-1 for the Data Sheet Electrical Parameters and Associated Tests. Electrical testing is done for pre- and post- neutron irradiation by ATE. ATE electrical test is done at an ambient room temperature of 25°C. See Appendix A for NDD report up to 1.0 × 10^{13}n/cm^2.

The parameters that did show a greater degree of change between pre- and post-irradiation were still within the electrical performance characteristics specified in the data sheet electrical parameters. See *TPS7H3xx4-SP Radiation-Hardness-Assured, 14-V, 4-Channel Supervisor with watchdog* data sheet for the data sheet electrical parameters and associated tests.

See Appendix A for NDD report up to 1 x 10^{13} n/cm^2.

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3.2 Specification Compliance Matrix

3.2.1 Electrical Characteristics

Parameter	Test Conditions	Sub-Group	MIN	TYP	MAX	UNIT	Test Number
SUPPLY VOLTAGES AND CURRENTS							
V_{IN} quiescent current	$V_{SR_\overline{UVLO}} > V_{TH_SR_\overline{UVLO}_RISING\ (MAX)}$	1, 2, 3		1.5	2.5	mA	6.5, 6.6, 6.7, 6.8
V_{IN} shutdown current	$V_{SR_\overline{UVLO}} = 0$	1, 2, 3		1.5	2.1		6.1 and 6.2
V_{IN} rising undervoltage lockout		1, 2, 3	2.73	2.80	2.88	V	6.138
V_{IN} falling undervoltage lockout		1, 2, 3	2.58	2.65	2.72		6.139
Internal linear regulator output voltage	4V ≤ V_{IN} ≤ 14V	1, 2, 3	3.23	3.29	3.37	V	6.10 and 6.11
	V_{IN} = 3V	1, 2, 3	98%	99%		× V_{IN}	6.9
VLDO maximum current	3.65V ≤ VIN ≤ 14V, VLDO= 98.5% × $VLDO_{(NOM)}$	1, 2, 3			5	mA	6.12, 6.13
Internal bandgap voltage		1, 2, 3	1.188	1.2	1.212	V	6.14 and 6.15
IN power on reset voltage	1.6V ≤ V_{PULL_UPx} ≤ 7V, V_{OL} ≤ 320mV with $I_{\overline{RESETx}}$ = –1mA	1, 2, 3		1.42	2		6.140, 6.141, 6.142, 6.143, 6.144, 6.145, 6.146, 6.147, 6.148, 6.149
PULL_UPx power on reset voltage	V_{IN} = 0V, V_{OL} ≤ 320mV with $I_{\overline{RESETx}}$ = –100µA	1, 2, 3		0.85	1.1		6.150, 6.151, 6.152, 6.153, 6.154
V_{HYS}	R_{HYS} = 49.9kΩ	1, 2, 3	1.164	1.2	1.236		6.156
SENSE1 TO SENSE4, UP AND $\overline{DOWN}$ COMPARATOR INPUTS							
Threshold voltage at SENSEx		1, 2, 3	593.1	599.7	604.9	mV	13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8, 13.9, 13.10, 13.11, 13.12, 13.13, 13.14, 13.15, 13.16, 13.17, 13.18, 13.19, 13.20, 13.21, 13.22, 13.23, 13.24, 13.25, 13.26, 13.27, 13.28, 13.29, 13.30, 13.31, 13.32
SENSEx hysteresis current	V_{SENSEx} = 700mV	1, 2, 3	23.28	24	24.72	µA	6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33
Input leakage current at SENSEx	V_{SENSEx} = 500mV	1, 2, 3		1	100	nA	6.18, 6.19, 6.20, 6.21, 6.22, 6.23, 6.24, 6.25
Rising threshold voltage at $\overline{SR_SVLO}$		1, 2, 3	580	602	618	mV	13.33, 13.36, 13.39, 13.42
Falling threshold voltage at $\overline{SR_SVLO}$		1, 2, 3	475	499	517		13.34, 13.37, 13.40, 13.43
Input leakage current at $\overline{SR_SVLO}$	$V_{SR_\overline{UVLO}}$ = 7V	1, 2, 3		2	100	nA	6.16 and 6.17
Rising threshold voltage at WDI		1, 2, 3	578	602	624	mV	13.45
Falling threshold voltage at WDI		1, 2, 3	473	498	521	mV	13.46
Input leakage current at WDI	V_{WDI} = 7V	1, 2, 3		1.4	100	nA	6.38 and 6.39
Rising threshold voltage at MODE		1, 2, 3	576	600	623	mV	13.48

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3.2.1 Electrical Characteristics (continued)

Parameter	Test Conditions		Sub-Group	MIN	TYP	MAX	UNIT	Test Number
Falling threshold voltage at MODE			1, 2, 3	475	498	520	mV	13.49
Input leakage current at MODE	V_{MODE} = 7V		1, 2, 3		1	100	nA	6.40 and 6.41
$\overline{RESET1}$ TO $\overline{RESET4}$, PWRGD AND $\overline{WDO}$ PUSH PULL OUTPUTS								
PULL_UPx leakage current	**V_{PULL_UPx} = 7V, $\overline{RESETx}$ = LOW**		**1, 2, 3**		**48**	**100**	**µA**	6.34, 6.35, 6.36, 6.37
Low-level $\overline{RESETx}$ output voltage	1.6V ≤ V_{PULL_UP1} ≤ 7V	I_{LOAD} = –2mA	1, 2, 3			5%	x V_{PULL_UP1}	6.66, 6.67, 6.68, 6.69, 6.72, 6.73, 6.74, 6.75, 6.78, 6.79, 6.80, 6.81, 6.84, 6.85, 6.86, 6.87
		I_{LOAD} = –10mA	1, 2, 3			23%		6.114, 6.115, 6.116, 6.117, 6.120, 6.121, 6.122, 6.123, 6.126, 6.127, 6.128, 6.129, 6.132, 6.133, 6.134, 6.135
High-level $\overline{RESETx}$ output voltage	1.6V ≤ V_{PULL_UP1} ≤ 7V	I_{LOAD} = 2mA	1, 2, 3	95%				6.42, 6.43, 6.44, 6.45, 6.48, 6.49, 6.50, 6.51, 6.54, 6.55, 6.56, 6.57, 6.60, 6.61, 6.62, 6.63
		I_{LOAD} = 10mA	1, 2, 3	75%				6.90, 6.91, 6.92, 6.93, 6.96, 6.97, 6.98, 6.99, 6.102, 6.103, 6.104, 6.105, 6.108, 6.109, 6.110, 6.111
Low-level PWRGD output voltage	1.6V ≤ V_{PULL_UP2} ≤ 7V	I_{LOAD} = –2mA	1, 2, 3			5%	x V_{PULL_UP2}	6.71, 6.77, 6.83, 6.89
		I_{LOAD} = –10mA	1, 2, 3			23%		6.119, 6.125, 6.131, 6.137
High-level PWRGD output voltage	1.6V ≤ V_{PULL_UP2} ≤ 7V	I_{LOAD} = 2mA	1, 2, 3	95%				6.47, 6.53, 6.59, 6.65
		I_{LOAD} = 10mA	1, 2, 3	75%				6.95, 6.101, 6.107, 6.113
Low-level $\overline{WDO}$ output voltage	1.6V ≤ V_{PULL_UP2} ≤ 7V	I_{LOAD} = –2mA	1, 2, 3			5%		6.70, 6.76, 6.82, 6.88
		I_{LOAD} = –10mA	1, 2, 3			23%		6.118, 6.124, 6.130, 6.136
High-level $\overline{WDO}$ output voltage	1.6V ≤ V_{PULL_UP2} ≤ 7V	I_{LOAD} = 2mA	1, 2, 3	95%				6.46, 6.52, 6.58, 6.64
		I_{LOAD} = 10mA	1, 2, 3	75%				6.94, 6.100, 6.106, 6.112

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3.2.1 Electrical Characteristics (continued)

Parameter	Test Conditions		Sub-Group	MIN	TYP	MAX	UNIT	Test Number
$\overline{\text{RESET}}$x rising output voltage slew rate	10% to 90% of V_{PULL_UP1}, R_{LOAD} = 50kΩ, C_{LOAD} = 100pF	1.6V ≤ V_{PULL_UP1} ≤ 7V	9, 10, 11	17	298		V/µs	19.1, 19.2, 19.3, 19.4, 19.13, 19.14, 19.15, 19.16, 19.25, 19.26, 19.27, 19.28, 19.37, 19.38, 19.39, 19.40
PWRGD rising output voltage slew rate			9, 10, 11	17	298			19.5, 19.17, 19.29, 19.41
$\overline{\text{WDO}}$ rising output voltage slew rate			9, 10, 11	17	298			19.6, 19.18, 19.30, 19.42
$\overline{\text{RESET}}$x falling output voltage slew rate	90% to 10% of V_{PULL_UP1}, R_{LOAD} = 50kΩ, C_{LOAD} = 100pF	1.6V ≤ V_{PULL_UP1} ≤ 7V	9, 10, 11	44	186			19.7, 19.8, 19.9, 19.10, 19.19, 19.20, 19.21, 19.22, 19.31, 19.32, 19.33, 19.34, 19.43, 19.44, 19.45, 19.46
PWRGD falling output voltage slew rate			9, 10, 11	44	186			19.11, 19.23, 19.35, 19.47
$\overline{\text{WDO}}$ falling output voltage slew rate			9, 10, 11	44	186			19.12, 19.24, 19.36, 19.48
$\overline{\text{RESET}}$ PMOS source output resistance	I_{LOAD} = 2mA	1.6V ≤ V_{PULL_UP1} ≤ 3.3V	1, 2, 3		20	40	Ω	18.1, 18.2, 18.3, 18.4, 18.7, 18.8, 18.9, 18.10
		3.3V ≤ V_{PULL_UP1} ≤ 7V	1, 2, 3		9	20		18.13, 18.14, 18.15, 18.16, 18.19, 18.20, 18.21, 18.22
PWRGD PMOS source output resistance	I_{LOAD} = 2mA	1.6V ≤ V_{PULL_UP2} ≤ 3.3V	1, 2, 3		20	40		18.5, 18.11
		3.3V ≤ V_{PULL_UP2} ≤ 7V	1, 2, 3		9	20		18.17, 18.23
$\overline{\text{WDO}}$ PMOS source output resistance	I_{LOAD} = 2mA	1.6V ≤ V_{PULL_UP2} ≤ 3.3V	1, 2, 3		20	40		18.6, 18.12
		3.3V ≤ V_{PULL_UP2} ≤ 7V	1, 2, 3		9	20		18.18, 18.24

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3.2.1 Electrical Characteristics (continued)

Parameter	Test Conditions	Sub-Group	MIN	TYP	MAX	UNIT	Test Number
$\overline{\text{RESET}}$ NMOS sink output resistance	I_{LOAD} = –2mA, 1.6V ≤ V_{PULL_UP1} ≤ 7V	1, 2, 3		16	36		18.25, 18.26, 18.27, 18.28, 18.31, 18.32, 18.33, 18.34, 18.37, 18.38, 18.39, 18.40, 18.43, 18.44, 18.45, 18.46
PWRGD NMOS sink output resistance	I_{LOAD} = –2mA, 1.6V ≤ V_{PULL_UP1} ≤ 7V	1, 2, 3		16	36		18.29, 18.35, 18.41, 18.47
$\overline{\text{WDO}}$ NMOS sink output resistance	I_{LOAD} = –2mA, 1.6V ≤ V_{PULL_UP1} ≤ 7V	1, 2, 3		16	36		18.30, 18.36, 18.42, 18.48
DELAY AND WATCHDOG TIMERS							
Delay time	R_{DLY_TMR} = 10.5kΩ	1, 2, 3	0.22	0.26	0.33	ms	5.21, 5.22, 5.24, 5.25, 5.26, 5.39, 5.40, 5.42, 5.43, 5.44, 5.57, 5.58, 5.60, 5.61, 5.62, 5.75, 5.76, 5.78, 5.79, 5.80
	R_{DLY_TMR} = 619kΩ	1, 2, 3	11.3	12.5	13.7		5.27, 5.28, 5.30, 5.31, 5.32, 5.45, 5.46, 5.48, 5.49, 5.50, 5.63, 5.64, 5.66, 5.67, 5.68, 5.81, 5.82, 5.84, 5.85, 5.86
	R_{DLY_TMR} = 1.18MΩ	1, 2, 3	21.3	23.7	26.2		5.33, 5.34, 5.36, 5.37, 5.38, 5.51, 5.52, 5.54, 5.55, 5.56, 5.69, 5.70, 5.72, 5.73, 5.74, 5.87, 5.88, 5.90, 5.91, 5.92
Watchdog time-out	R_{WD_TMR} = 56.2kΩ	1, 2, 3	0.43	0.52	0.57	s	5.23, 5.41, 5.59, 5.77
	R_{WD_TMR} = 118kΩ	1, 2, 3	0.8	1	1.2		5.29, 5.47, 5.65, 5.83
	R_{WD_TMR} = 174kΩ	1, 2, 3	1.34	1.5	1.7		5.35, 5.53, 5.71, 5.89

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3.2.2 Timing Requirements

Parameter	Test Conditions		Sub-Group	MIN	TYP	MAX	UNIT	Test Number
Start-up delay time	V_{REFCAP} ≥ 1.1V		1, 2, 3		0.3	2.8	ms	6.155
$\overline{RESET}$ propagation delay	DLY_TMR = Open, $V_{OVERDRIVE}$ = 10mV, SR_{SENSEx} = 27V/µs, from 50% of SENSEx to 50% of $\overline{RESET}$x		1, 2, 3		0.62	4.3	µs	5.1, 5.2, 5.4, 5.5, 5.6, 5.7, 5.9, 5.10, 5.11, 5.12, 5.14, 5.15, 5.16, 5.17, 5.19, 5.20
PWRGD propagation delay	DLY_TMR = Open, $V_{OVERDRIVE}$ = 10mV, SR_{SENSEx} = 27V/µs, from 50% of V_{SENSEx} to 50% of V_{PWRGD}		1, 2, 3		0.51	4.3	µs	5.3, 5.8, 5.13, 5.18
SR_$\overline{UVLO}$ propagation delay	$V_{SR_\overline{FAULT}}$ = Falling from 1V to 0V in 10ns, V_{SENSEx} = 610mV, from 50% of $V_{SR_\overline{UVLO}}$ to 50% of V_{PWRGD}		1, 2, 3		0.92	2	µs	5.105, 5.106, 5.107, 5.108, 5.109, 5.110, 5.111, 5.112
WDI propagation delay	V_{WDI} = Rising from 0V to 1V in 10ns, VSENSEx = 610mV, from 50% of V_{WDI} to 50% of V_{WDO}	t_{WD_TMR} = 0.52s	1, 2, 3		23	40	µs	5.93, 5.94, 5.95, 5.96
		t_{WD_TMR} = 1s			47	80		5.97, 5.98, 5.99, 5.100
		t_{WD_TMR} = 1.5s			68	116		5.101, 5.102, 5.103, 5.104
WDI minimum pulse width			4, 5, 6	2			× t_{WD_OSC}	25.11, 25.12, 25.13, 25.14, 25.15, 25.16
SR_UVLO minimum pulse width for valid reset			4, 5, 6		0.61	1.1	µs	25.1, 25.2
VSENSEx hold time for valid fault detection		C_{LOAD} = 100pF, $V_{OVERDRIVE}$ = |100mV|	4, 5, 6		0.56	2.2	µs	25.3, 25.4, 25.5, 25.6, 25.7, 25.8, 25.9, 25.10

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4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, *TPS7H3xx4-SP Radiation-Hardness-Assured, 14-V, 4-Channel Supervisor with Watchdog*, data sheet.
- Texas Instruments, *TPS7H3034EVM-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: NDD Report Data

This appendix contains the NDD report data.

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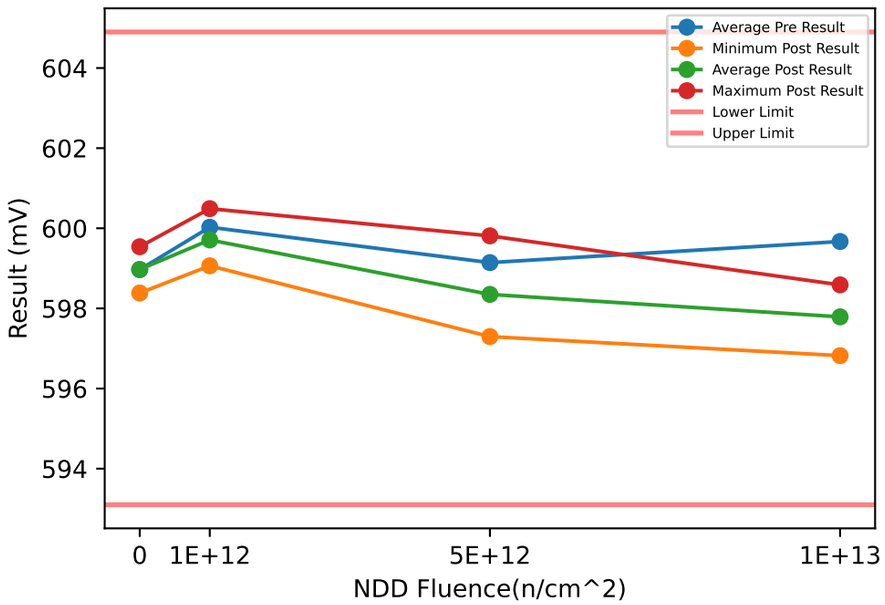
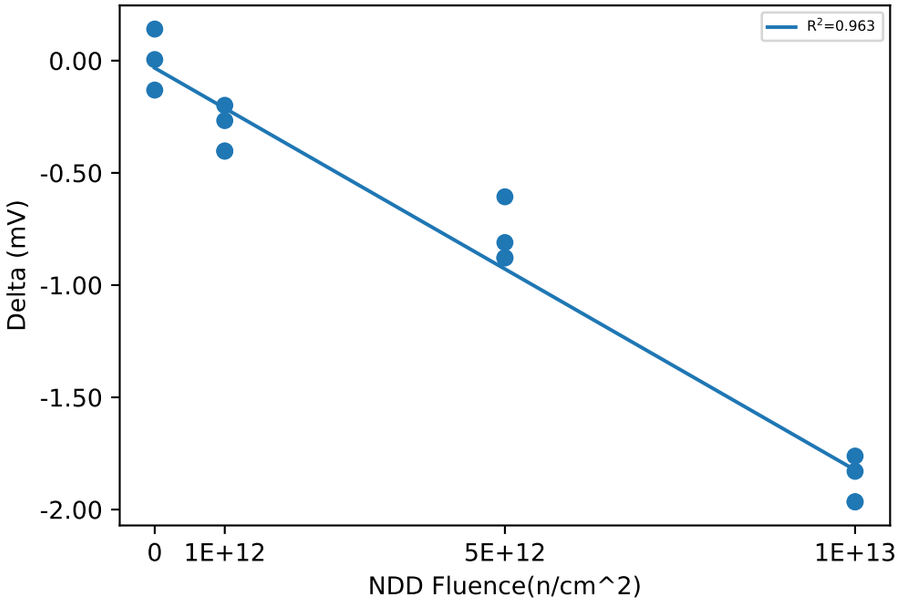
Device Test: 13.1; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

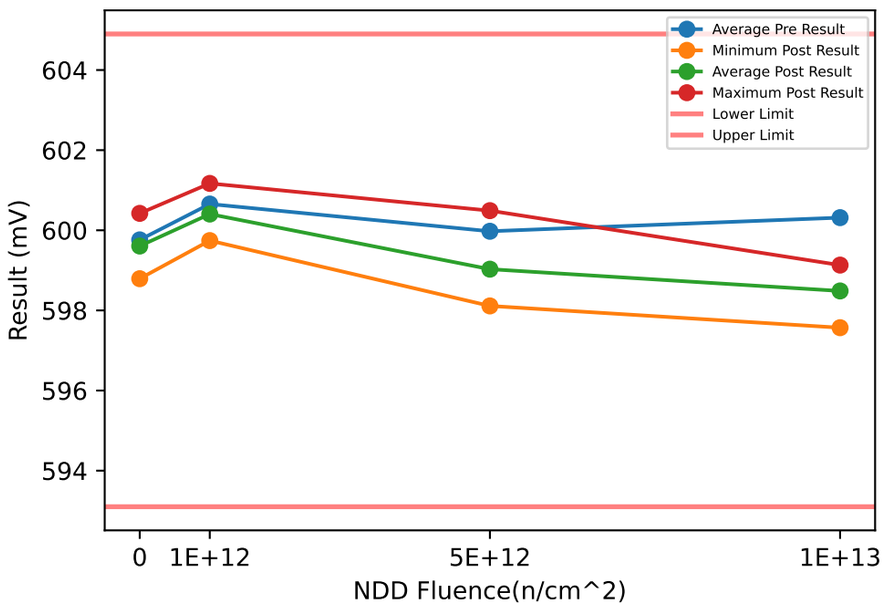
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.35	600.08	-0.267
304	1e+12	NDD Unbiased	600.89	600.49	-0.4028
305	1e+12	NDD Unbiased	599.6	599.2	-0.4028
306	1e+12	NDD Unbiased	599.26	599.06	-0.199
307	5e+12	NDD Unbiased	600.42	599.81	-0.6066
308	5e+12	NDD Unbiased	599.19	598.38	-0.8105
309	5e+12	NDD Unbiased	598.18	597.3	-0.8785
310	5e+12	NDD Unbiased	598.79	597.91	-0.8785
311	1e+13	NDD Unbiased	599.6	597.64	-1.9655
312	1e+13	NDD Unbiased	598.65	596.82	-1.8297
313	1e+13	NDD Unbiased	600.35	598.59	-1.7618
314	1e+13	NDD Unbiased	600.08	598.11	-1.9656
315	0	Correlation	599.13	599	-0.1311
316	0	Correlation	598.24	598.38	0.1407
317	0	Correlation	599.53	599.54	0.0049

Test Statistics (mV)

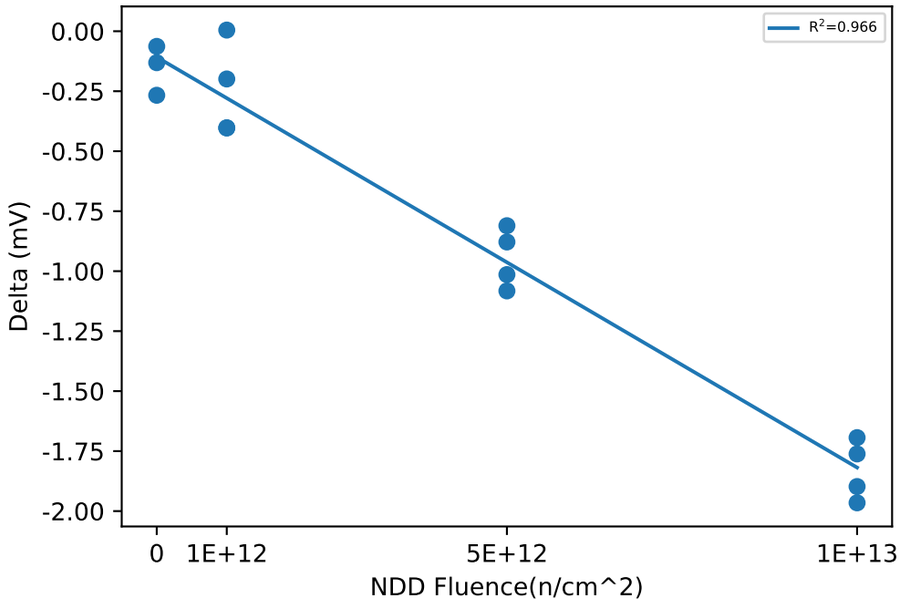
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.24	598.97	599.53	0.6599	598.38	598.97	599.54	0.57788	-0.1311	0.0048333	0.1407	0.1359
1e+12	599.26	600.03	600.89	0.73465	599.06	599.71	600.49	0.68953	-0.4028	-0.3179	-0.199	0.10189
5e+12	598.18	599.14	600.42	0.94694	597.3	598.35	599.81	1.0707	-0.8785	-0.79353	-0.6066	0.12867
1e+13	598.65	599.67	600.35	0.74635	596.82	597.79	598.59	0.75325	-1.9656	-1.8807	-1.7618	0.10188

Device Test: 13.10; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

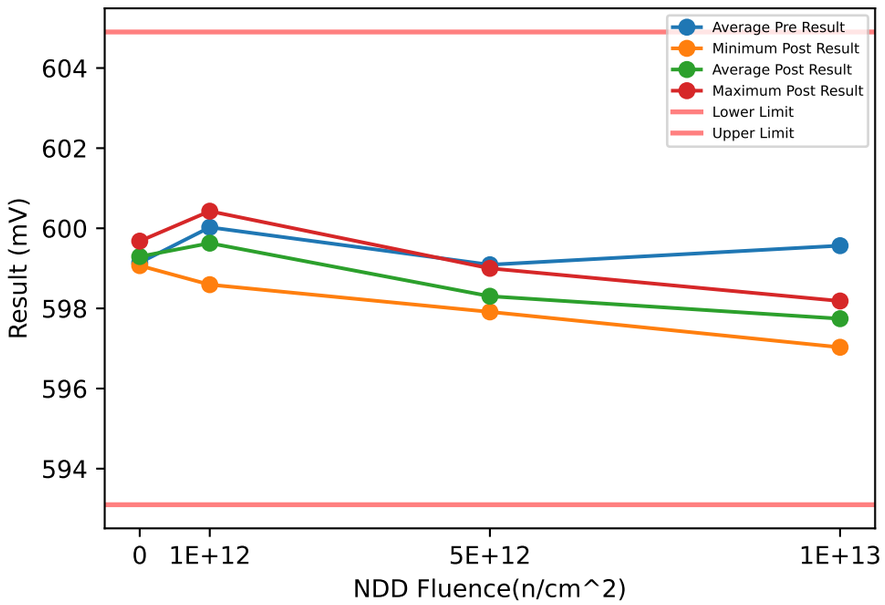
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.89	600.9	0.0048
304	1e+12	NDD Unbiased	601.57	601.17	-0.4028
305	1e+12	NDD Unbiased	600.21	599.81	-0.4028
306	1e+12	NDD Unbiased	599.94	599.74	-0.199
307	5e+12	NDD Unbiased	601.5	600.49	-1.0143
308	5e+12	NDD Unbiased	599.94	599.06	-0.8784
309	5e+12	NDD Unbiased	598.92	598.11	-0.8106
310	5e+12	NDD Unbiased	599.53	598.45	-1.0823
311	1e+13	NDD Unbiased	600.35	598.45	-1.8977
312	1e+13	NDD Unbiased	599.26	597.57	-1.6938
313	1e+13	NDD Unbiased	601.1	599.13	-1.9655
314	1e+13	NDD Unbiased	600.55	598.79	-1.7617
315	0	Correlation	599.74	599.61	-0.1311
316	0	Correlation	599.06	598.79	-0.2669
317	0	Correlation	600.49	600.42	-0.0632

Test Statistics (mV)

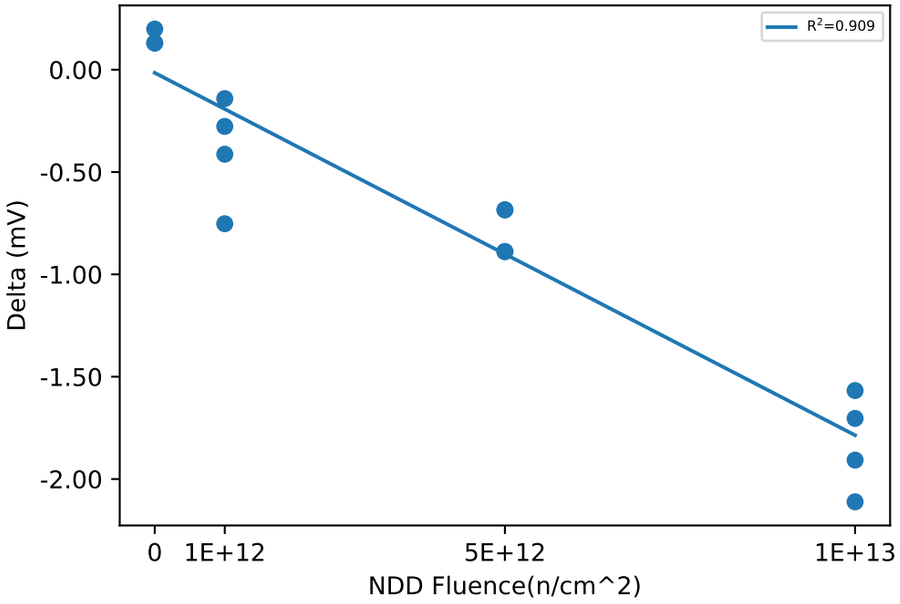
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.06	599.76	600.49	0.71372	598.79	599.61	600.42	0.8153	-0.2669	-0.15373	-0.0632	0.10372
1e+12	599.94	600.66	601.57	0.7307	599.74	600.41	601.17	0.73463	-0.4028	-0.24995	0.0048	0.19512
5e+12	598.92	599.98	601.5	1.1018	598.11	599.03	600.49	1.0504	-1.0823	-0.9464	-0.8106	0.12402
1e+13	599.26	600.32	601.1	0.76967	597.57	598.49	599.13	0.67146	-1.9655	-1.8297	-1.6938	0.12404

Device Test: 13.11; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

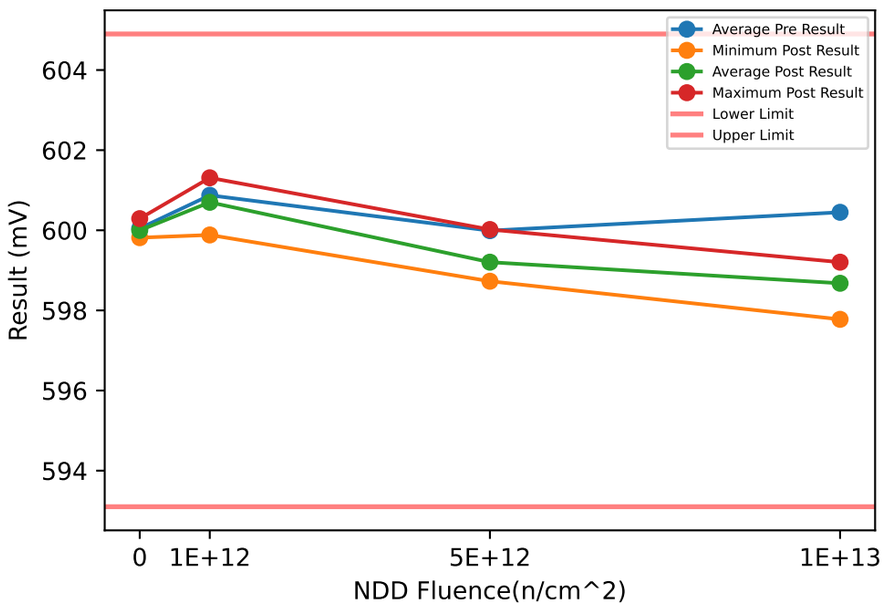
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.16	600.02	-0.1412
304	1e+12	NDD Unbiased	600.7	600.43	-0.277
305	1e+12	NDD Unbiased	600.23	599.48	-0.7526
306	1e+12	NDD Unbiased	599.01	598.59	-0.4129
307	5e+12	NDD Unbiased	599.68	599	-0.6846
308	5e+12	NDD Unbiased	599.21	598.32	-0.8884
309	5e+12	NDD Unbiased	598.67	597.98	-0.6846
310	5e+12	NDD Unbiased	598.8	597.91	-0.8885
311	1e+13	NDD Unbiased	599.14	597.57	-1.5677
312	1e+13	NDD Unbiased	598.73	597.03	-1.7037
313	1e+13	NDD Unbiased	600.09	598.18	-1.9075
314	1e+13	NDD Unbiased	600.3	598.18	-2.1113
315	0	Correlation	599.01	599.14	0.1306
316	0	Correlation	598.94	599.07	0.1305
317	0	Correlation	599.48	599.68	0.1986

Test Statistics (mV)

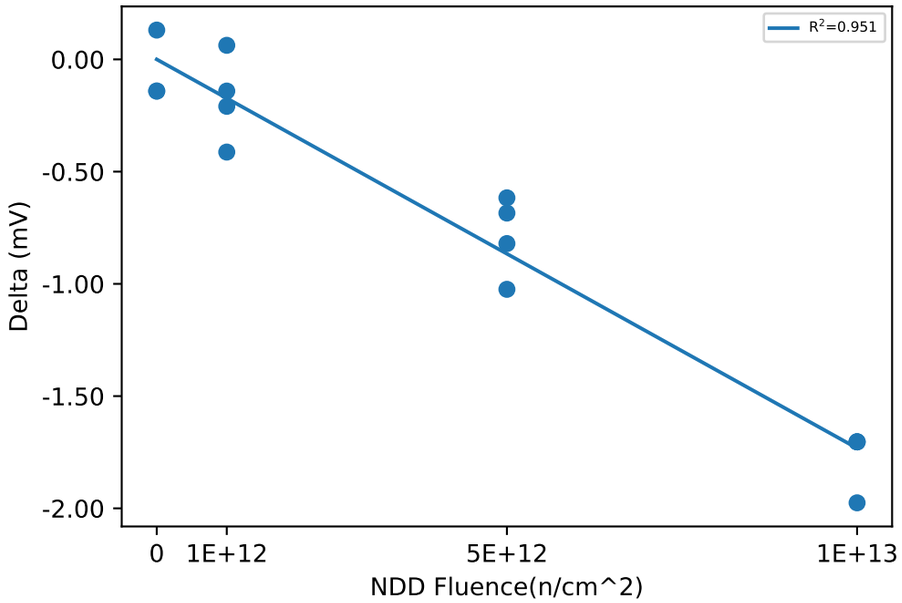
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.94	599.14	599.48	0.29608	599.07	599.29	599.68	0.33515	0.1305	0.15323	0.1986	0.039289
1e+12	599.01	600.02	600.7	0.72111	598.59	599.63	600.43	0.79301	-0.7526	-0.39593	-0.1412	0.26238
5e+12	598.67	599.09	599.68	0.45869	597.91	598.3	599	0.49734	-0.8885	-0.78653	-0.6846	0.11769
1e+13	598.73	599.57	600.3	0.7491	597.03	597.74	598.18	0.55607	-2.1113	-1.8226	-1.5677	0.23781

Device Test: 13.12; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

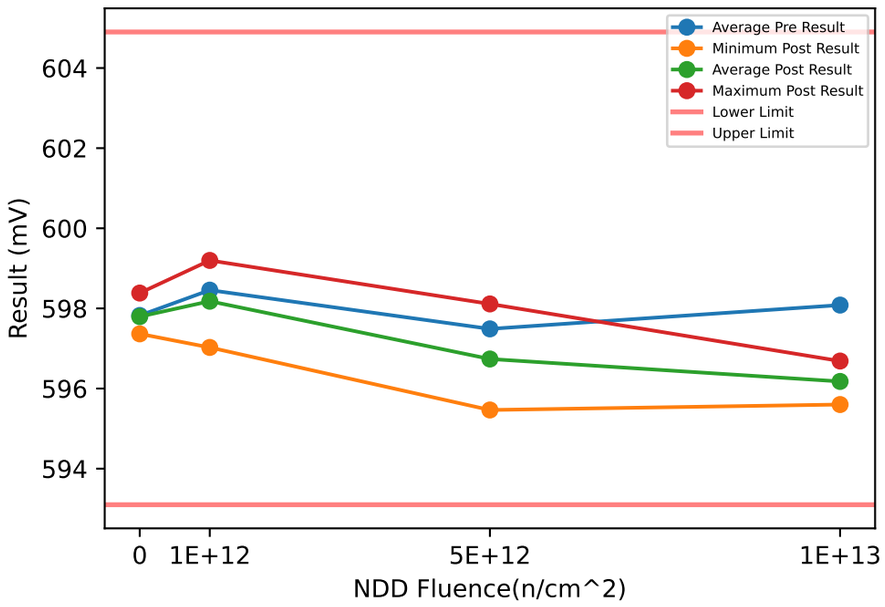
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	601.04	600.9	-0.1411
304	1e+12	NDD Unbiased	601.72	601.31	-0.4129
305	1e+12	NDD Unbiased	600.91	600.7	-0.2091
306	1e+12	NDD Unbiased	599.82	599.88	0.0627
307	5e+12	NDD Unbiased	600.64	600.02	-0.6167
308	5e+12	NDD Unbiased	600.09	599.27	-0.8205
309	5e+12	NDD Unbiased	599.41	598.73	-0.6846
310	5e+12	NDD Unbiased	599.82	598.8	-1.0243
311	1e+13	NDD Unbiased	600.5	598.52	-1.9754
312	1e+13	NDD Unbiased	599.48	597.78	-1.7037
313	1e+13	NDD Unbiased	600.91	599.2	-1.7037
314	1e+13	NDD Unbiased	600.91	599.2	-1.7037
315	0	Correlation	599.96	599.82	-0.1411
316	0	Correlation	599.75	599.88	0.1306
317	0	Correlation	600.43	600.29	-0.1411

Test Statistics (mV)

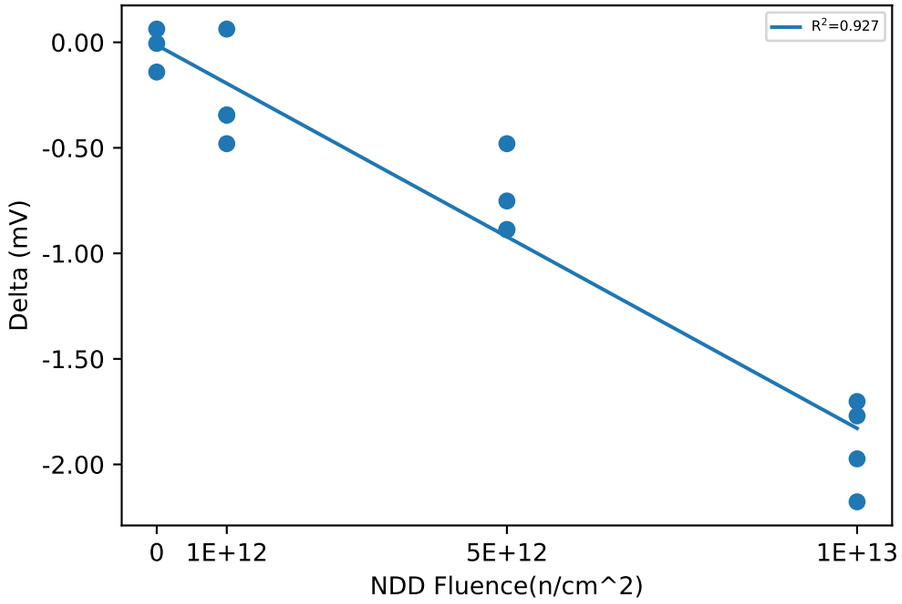
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.75	600.05	600.43	0.34864	599.82	600	600.29	0.25724	-0.1411	-0.050533	0.1306	0.15687
1e+12	599.82	600.87	601.72	0.78743	599.88	600.7	601.31	0.60002	-0.4129	-0.1751	0.0627	0.19614
5e+12	599.41	599.99	600.64	0.51293	598.73	599.2	600.02	0.59486	-1.0243	-0.78653	-0.6167	0.17974
1e+13	599.48	600.45	600.91	0.67341	597.78	598.68	599.2	0.68022	-1.9754	-1.7716	-1.7037	0.13585

Device Test: 13.13; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

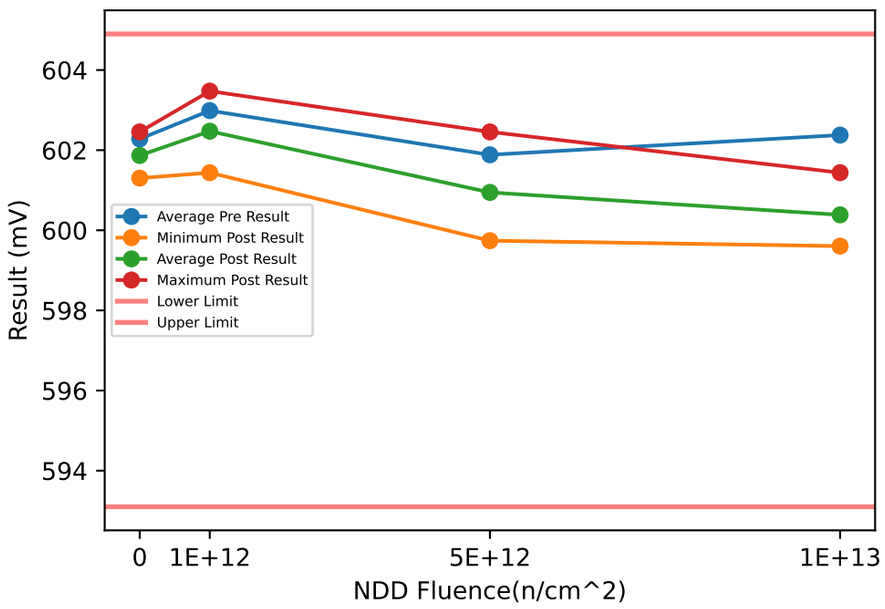
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	598.32	598.38	0.0627
304	1e+12	NDD Unbiased	599.54	599.2	-0.3446
305	1e+12	NDD Unbiased	598.59	598.11	-0.4803
306	1e+12	NDD Unbiased	597.37	597.03	-0.3446
307	5e+12	NDD Unbiased	598.86	598.11	-0.7518
308	5e+12	NDD Unbiased	597.98	597.09	-0.8875
309	5e+12	NDD Unbiased	596.76	596.28	-0.4803
310	5e+12	NDD Unbiased	596.35	595.46	-0.8875
311	1e+13	NDD Unbiased	597.85	596.08	-1.77
312	1e+13	NDD Unbiased	597.3	595.6	-1.7021
313	1e+13	NDD Unbiased	598.66	596.69	-1.9736
314	1e+13	NDD Unbiased	598.52	596.35	-2.1773
315	0	Correlation	597.3	597.37	0.0627
316	0	Correlation	597.78	597.64	-0.1409
317	0	Correlation	598.39	598.38	-0.0052

Test Statistics (mV)

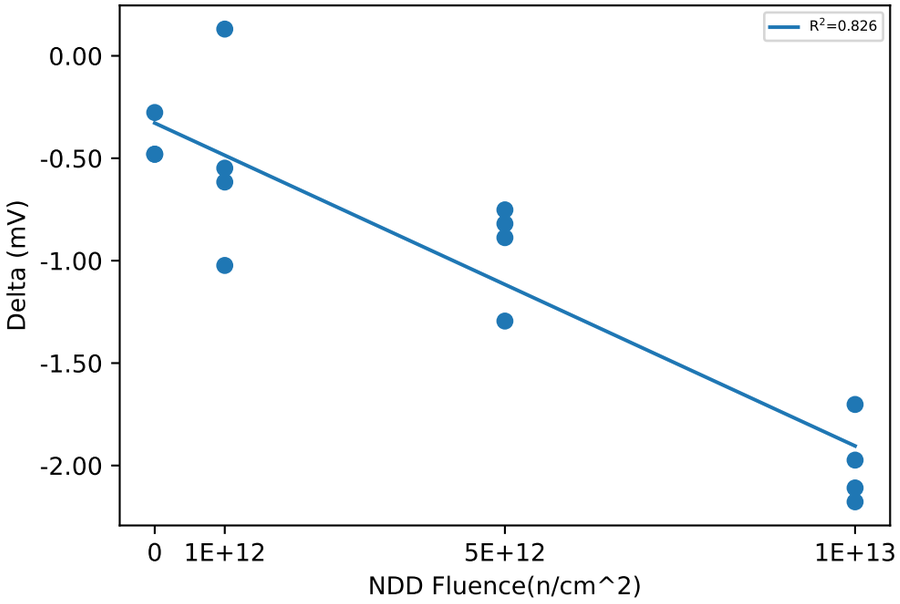
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	597.3	597.82	598.39	0.54441	597.37	597.79	598.38	0.5272	-0.1409	-0.0278	0.0627	0.10366
1e+12	597.37	598.46	599.54	0.89362	597.03	598.18	599.2	0.89705	-0.4803	-0.2767	0.0627	0.23514
5e+12	596.35	597.49	598.86	1.1484	595.46	596.74	598.11	1.1322	-0.8875	-0.75177	-0.4803	0.19196
1e+13	597.3	598.08	598.66	0.63068	595.6	596.18	596.69	0.45868	-2.1773	-1.9058	-1.7021	0.21467

Device Test: 13.14; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

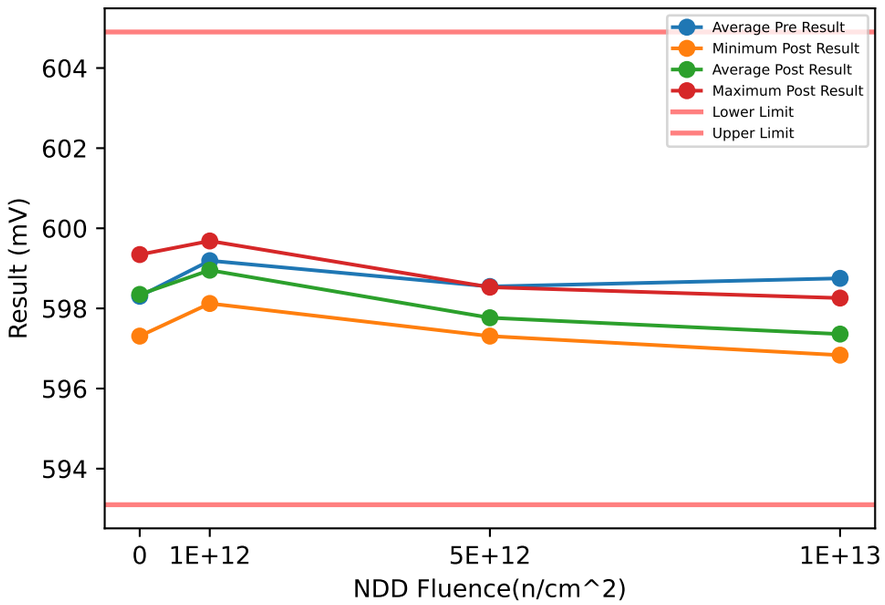
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	602.6	602.73	0.1306
304	1e+12	NDD Unbiased	604.09	603.47	-0.6161
305	1e+12	NDD Unbiased	603.28	602.25	-1.0233
306	1e+12	NDD Unbiased	601.99	601.44	-0.5482
307	5e+12	NDD Unbiased	603.21	602.46	-0.7518
308	5e+12	NDD Unbiased	602.33	601.03	-1.2948
309	5e+12	NDD Unbiased	601.44	600.56	-0.8876
310	5e+12	NDD Unbiased	600.56	599.74	-0.8197
311	1e+13	NDD Unbiased	602.39	600.22	-2.1772
312	1e+13	NDD Unbiased	601.71	599.6	-2.1094
313	1e+13	NDD Unbiased	603.14	601.44	-1.702
314	1e+13	NDD Unbiased	602.26	600.28	-1.9736
315	0	Correlation	601.58	601.3	-0.2767
316	0	Correlation	602.33	601.84	-0.4803
317	0	Correlation	602.94	602.46	-0.4803

Test Statistics (mV)

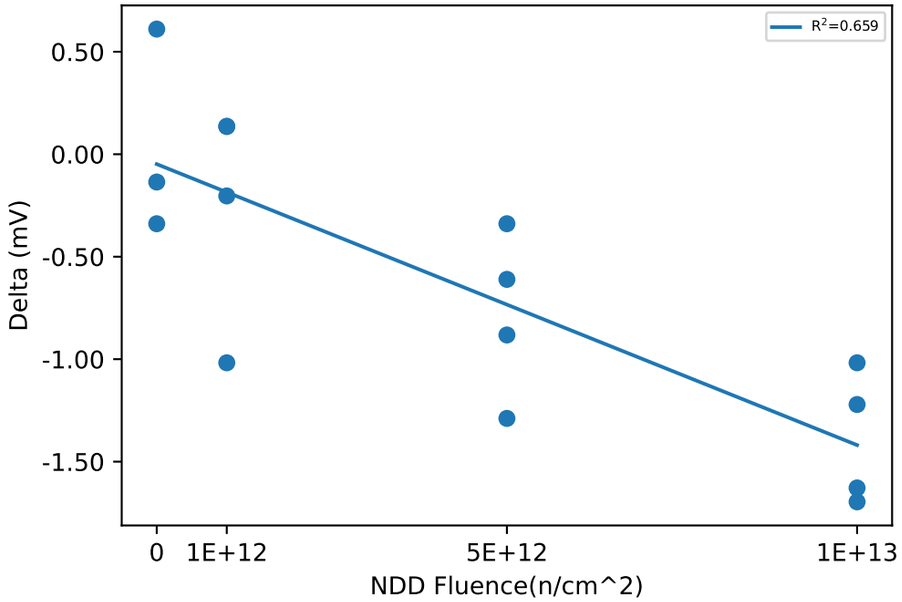
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	601.58	602.28	602.94	0.67988	601.3	601.87	602.46	0.57728	-0.4803	-0.41243	-0.2767	0.11755
1e+12	601.99	602.99	604.09	0.9045	601.44	602.47	603.47	0.85383	-1.0233	-0.51425	0.1306	0.47836
5e+12	600.56	601.88	603.21	1.1391	599.74	600.95	602.46	1.139	-1.2948	-0.93848	-0.7518	0.24393
1e+13	601.71	602.38	603.14	0.58746	599.6	600.39	601.44	0.76494	-2.1772	-1.9906	-1.702	0.21017

Device Test: 13.15; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

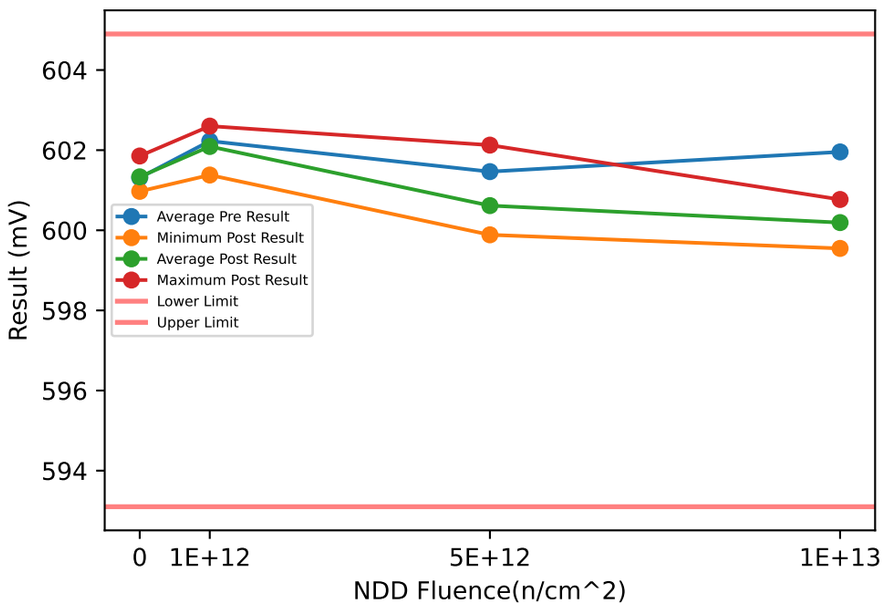
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	599.41	599.55	0.1358
304	1e+12	NDD Unbiased	599.89	599.68	-0.2035
305	1e+12	NDD Unbiased	599.48	598.46	-1.0176
306	1e+12	NDD Unbiased	597.99	598.12	0.1358
307	5e+12	NDD Unbiased	599.82	598.53	-1.289
308	5e+12	NDD Unbiased	598.12	597.51	-0.6106
309	5e+12	NDD Unbiased	598.05	597.72	-0.3391
310	5e+12	NDD Unbiased	598.19	597.31	-0.8819
311	1e+13	NDD Unbiased	598.87	597.24	-1.6283
312	1e+13	NDD Unbiased	597.85	596.83	-1.0176
313	1e+13	NDD Unbiased	599.48	598.26	-1.2212
314	1e+13	NDD Unbiased	598.8	597.11	-1.696
315	0	Correlation	597.44	597.31	-0.1356
316	0	Correlation	598.73	599.34	0.6107
317	0	Correlation	598.73	598.39	-0.3391

Test Statistics (mV)

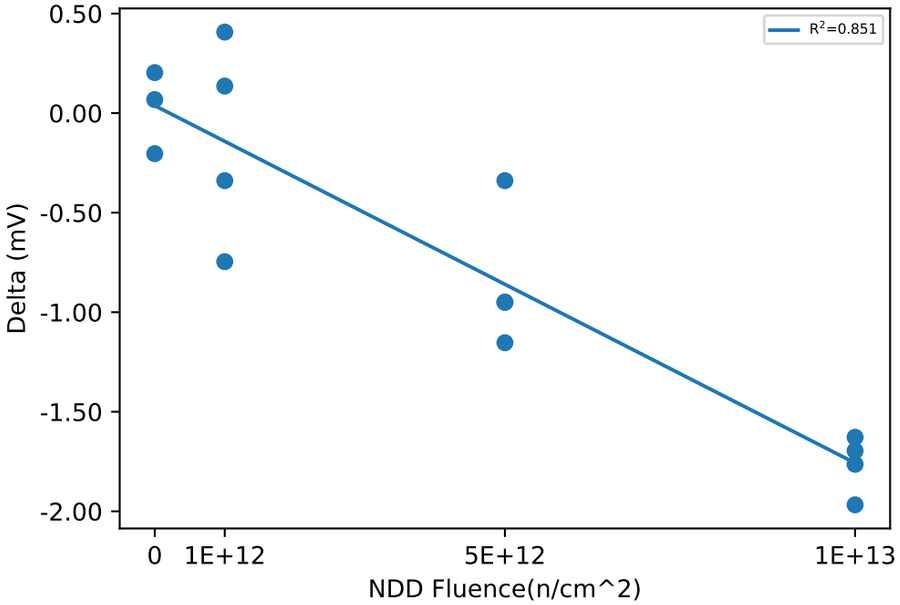
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	597.44	598.3	598.73	0.74426	597.31	598.35	599.34	1.0185	-0.3391	0.045333	0.6107	0.50008
1e+12	597.99	599.19	599.89	0.82978	598.12	598.95	599.68	0.77823	-1.0176	-0.23737	0.1358	0.54419
5e+12	598.05	598.55	599.82	0.84987	597.31	597.77	598.53	0.53529	-1.289	-0.78015	-0.3391	0.4052
1e+13	597.85	598.75	599.48	0.6725	596.83	597.36	598.26	0.62271	-1.696	-1.3908	-1.0176	0.32537

Device Test: 13.16; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

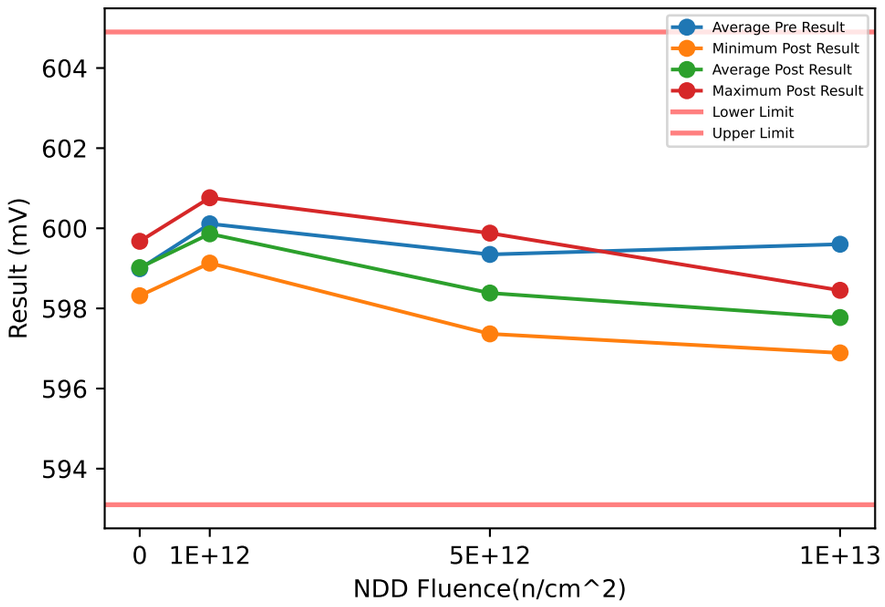
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	602.94	602.6	-0.3392
304	1e+12	NDD Unbiased	603.21	602.46	-0.7461
305	1e+12	NDD Unbiased	601.79	601.92	0.1358
306	1e+12	NDD Unbiased	600.97	601.38	0.4071
307	5e+12	NDD Unbiased	602.46	602.13	-0.3392
308	5e+12	NDD Unbiased	600.9	599.95	-0.9498
309	5e+12	NDD Unbiased	601.45	600.5	-0.9498
310	5e+12	NDD Unbiased	601.04	599.89	-1.1533
311	1e+13	NDD Unbiased	602.26	600.29	-1.9674
312	1e+13	NDD Unbiased	601.18	599.55	-1.6282
313	1e+13	NDD Unbiased	602.46	600.77	-1.6961
314	1e+13	NDD Unbiased	601.92	600.16	-1.7639
315	0	Correlation	600.9	600.97	0.0679
316	0	Correlation	601.65	601.85	0.2035
317	0	Correlation	601.38	601.18	-0.2035

Test Statistics (mV)

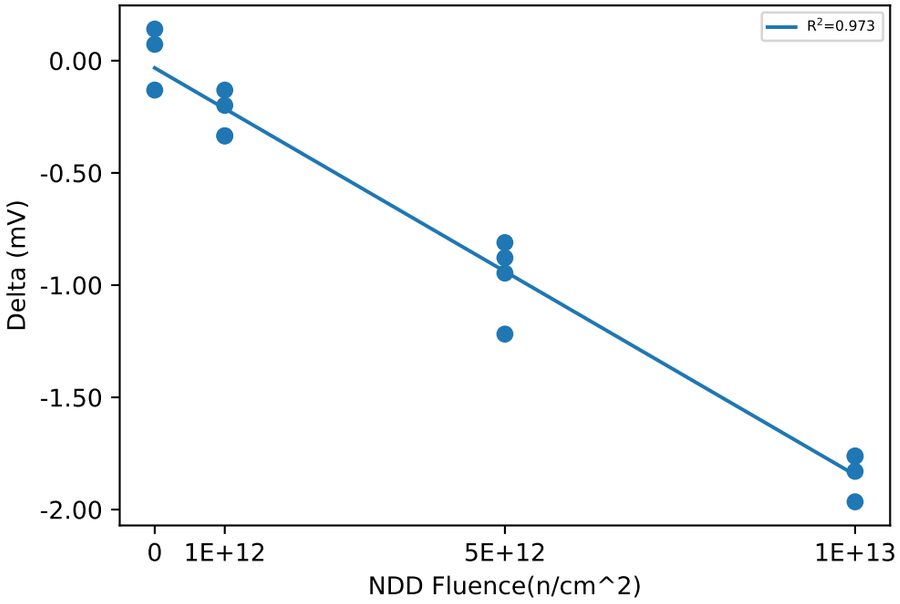
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	600.9	601.31	601.65	0.3778	600.97	601.33	601.85	0.46181	-0.2035	0.022633	0.2035	0.20724
1e+12	600.97	602.23	603.21	1.04	601.38	602.09	602.6	0.5581	-0.7461	-0.1356	0.4071	0.51067
5e+12	600.9	601.46	602.46	0.70591	599.89	600.62	602.13	1.0428	-1.1533	-0.84802	-0.3392	0.35252
1e+13	601.18	601.96	602.46	0.56629	599.55	600.19	600.77	0.50315	-1.9674	-1.7639	-1.6282	0.14654

Device Test: 13.17; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

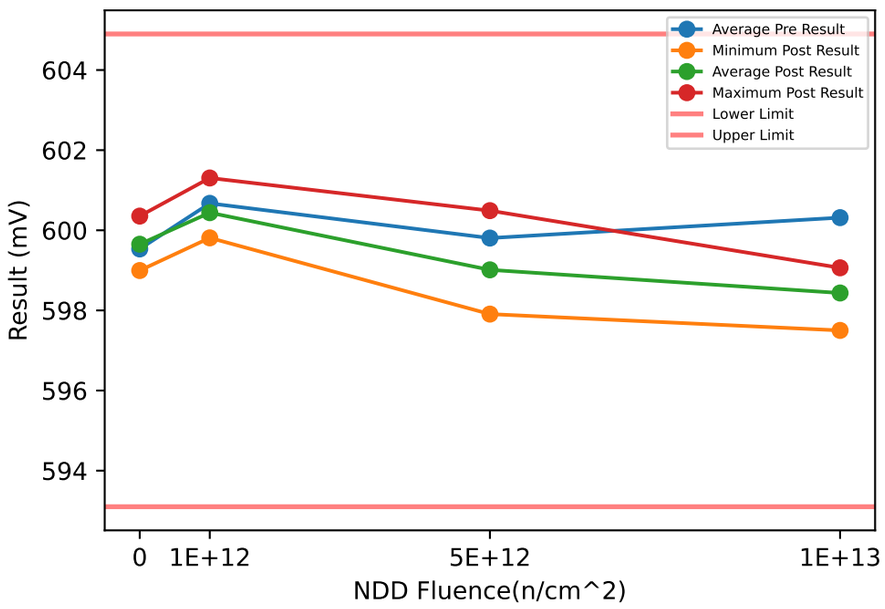
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.42	600.29	-0.1311
304	1e+12	NDD Unbiased	600.96	600.76	-0.199
305	1e+12	NDD Unbiased	599.6	599.27	-0.3349
306	1e+12	NDD Unbiased	599.47	599.13	-0.3349
307	5e+12	NDD Unbiased	600.76	599.88	-0.8785
308	5e+12	NDD Unbiased	599.33	598.38	-0.9464
309	5e+12	NDD Unbiased	598.18	597.36	-0.8105
310	5e+12	NDD Unbiased	599.13	597.91	-1.2182
311	1e+13	NDD Unbiased	599.67	597.7	-1.9655
312	1e+13	NDD Unbiased	598.65	596.89	-1.7618
313	1e+13	NDD Unbiased	600.21	598.45	-1.7618
314	1e+13	NDD Unbiased	599.87	598.04	-1.8297
315	0	Correlation	599.19	599.06	-0.131
316	0	Correlation	598.24	598.32	0.0728
317	0	Correlation	599.53	599.67	0.1408

Test Statistics (mV)

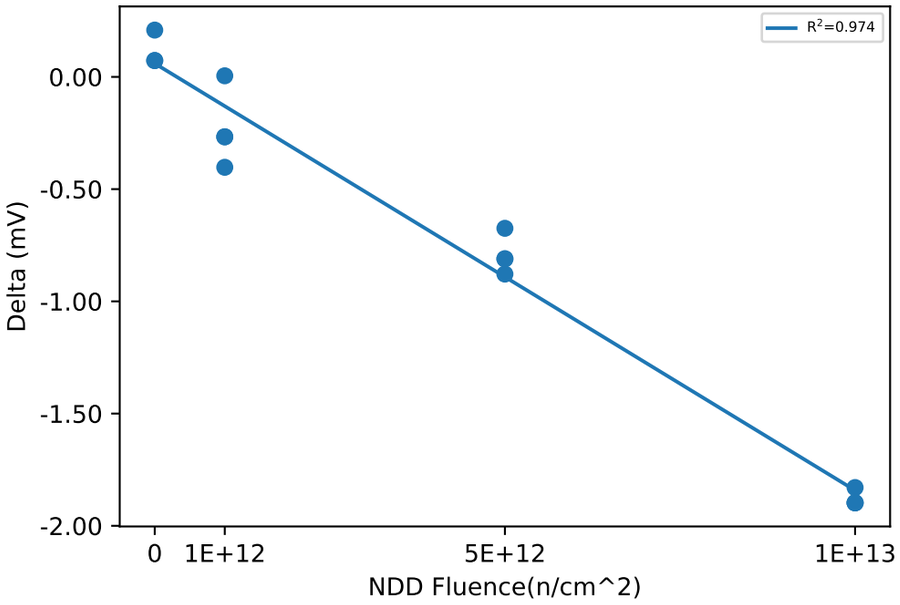
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.24	598.99	599.53	0.66915	598.32	599.02	599.67	0.68058	-0.131	0.027533	0.1408	0.14144
1e+12	599.47	600.11	600.96	0.70501	599.13	599.86	600.76	0.79115	-0.3349	-0.24997	-0.1311	0.10191
5e+12	598.18	599.35	600.76	1.0662	597.36	598.38	599.88	1.08	-1.2182	-0.9634	-0.8105	0.1787
1e+13	598.65	599.6	600.21	0.67261	596.89	597.77	598.45	0.6634	-1.9655	-1.8297	-1.7618	0.096025

Device Test: 13.18; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

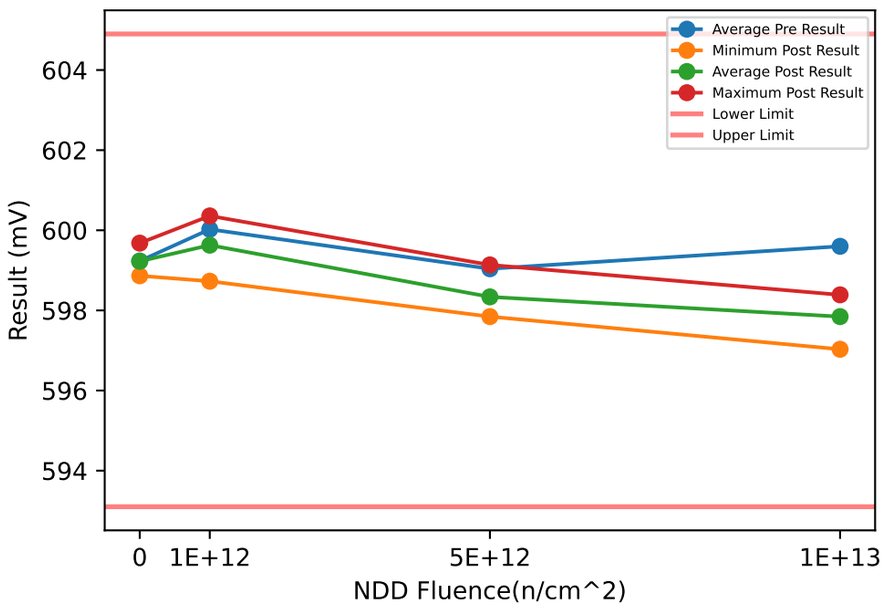
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	601.03	600.76	-0.2669
304	1e+12	NDD Unbiased	601.71	601.31	-0.4028
305	1e+12	NDD Unbiased	600.15	599.88	-0.2669
306	1e+12	NDD Unbiased	599.81	599.81	0.0049
307	5e+12	NDD Unbiased	601.3	600.49	-0.8105
308	5e+12	NDD Unbiased	599.87	599	-0.8785
309	5e+12	NDD Unbiased	598.72	597.91	-0.8105
310	5e+12	NDD Unbiased	599.33	598.66	-0.6746
311	1e+13	NDD Unbiased	600.42	598.52	-1.8976
312	1e+13	NDD Unbiased	599.33	597.5	-1.8296
313	1e+13	NDD Unbiased	600.96	599.06	-1.8976
314	1e+13	NDD Unbiased	600.55	598.66	-1.8976
315	0	Correlation	599.53	599.61	0.0728
316	0	Correlation	598.79	599	0.2086
317	0	Correlation	600.28	600.35	0.0728

Test Statistics (mV)

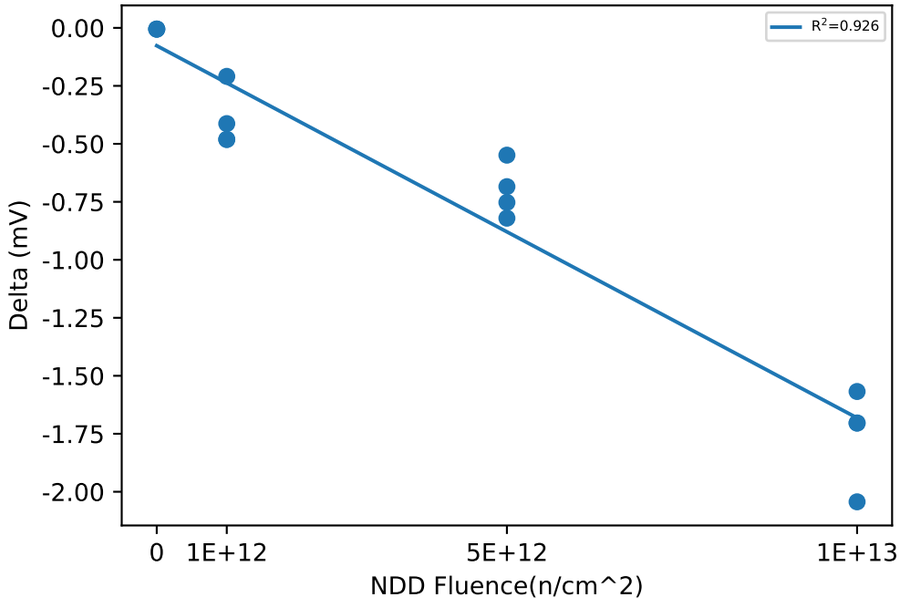
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.79	599.53	600.28	0.74735	599	599.65	600.35	0.68058	0.0728	0.11807	0.2086	0.078404
1e+12	599.81	600.67	601.71	0.86188	599.81	600.44	601.31	0.72197	-0.4028	-0.23293	0.0049	0.171
5e+12	598.72	599.81	601.3	1.1026	597.91	599.01	600.49	1.0848	-0.8785	-0.79352	-0.6746	0.085518
1e+13	599.33	600.32	600.96	0.69623	597.5	598.43	599.06	0.66425	-1.8976	-1.8806	-1.8296	0.034

Device Test: 13.19; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

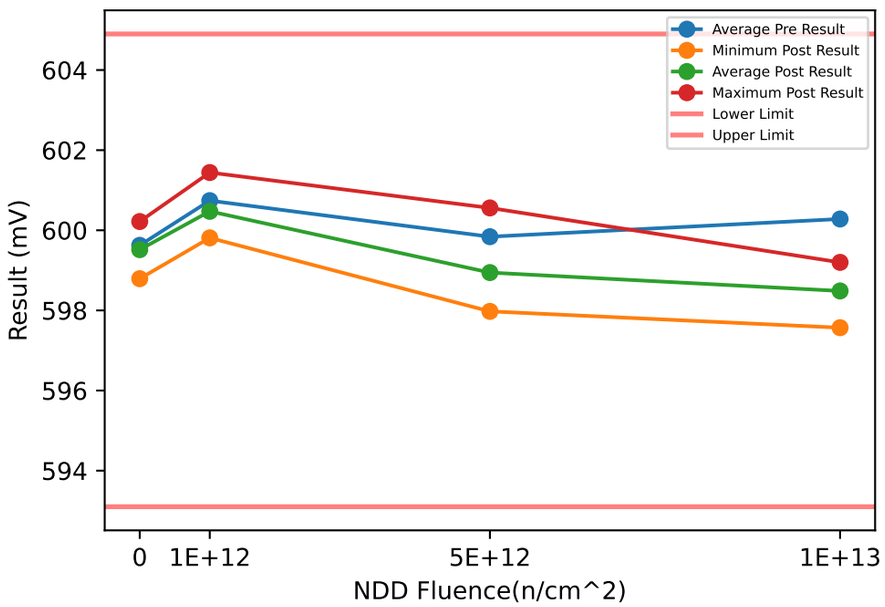
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.09	599.88	-0.2091
304	1e+12	NDD Unbiased	600.84	600.36	-0.4809
305	1e+12	NDD Unbiased	600.02	599.54	-0.4809
306	1e+12	NDD Unbiased	599.14	598.73	-0.4128
307	5e+12	NDD Unbiased	599.68	599.14	-0.5488
308	5e+12	NDD Unbiased	599.07	598.32	-0.7526
309	5e+12	NDD Unbiased	598.53	597.85	-0.6846
310	5e+12	NDD Unbiased	598.87	598.05	-0.8205
311	1e+13	NDD Unbiased	599.35	597.64	-1.7037
312	1e+13	NDD Unbiased	598.6	597.03	-1.5678
313	1e+13	NDD Unbiased	600.02	598.32	-1.7037
314	1e+13	NDD Unbiased	600.43	598.39	-2.0434
315	0	Correlation	599.14	599.14	-0.0052
316	0	Correlation	598.87	598.86	-0.0052
317	0	Correlation	599.68	599.68	-0.0053

Test Statistics (mV)

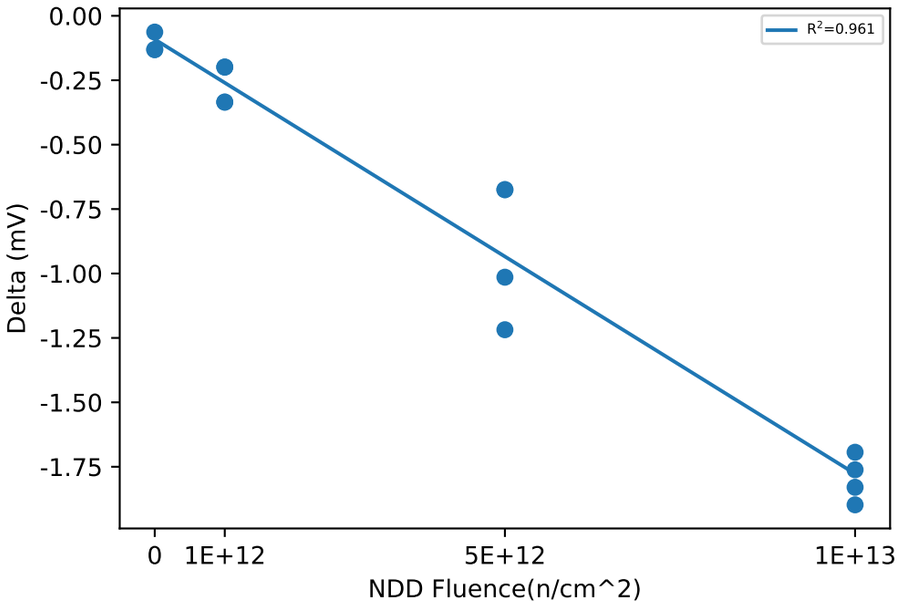
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.87	599.23	599.68	0.41514	598.86	599.23	599.68	0.41508	-0.0053	-0.0052333	-0.0052	5.7735e-05
1e+12	599.14	600.02	600.84	0.69507	598.73	599.63	600.36	0.68694	-0.4809	-0.39593	-0.2091	0.12862
5e+12	598.53	599.04	599.68	0.4852	597.85	598.34	599.14	0.56671	-0.8205	-0.70163	-0.5488	0.11601
1e+13	598.6	599.6	600.43	0.80456	597.03	597.85	598.39	0.63971	-2.0434	-1.7547	-1.5678	0.20288

Device Test: 13.2; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

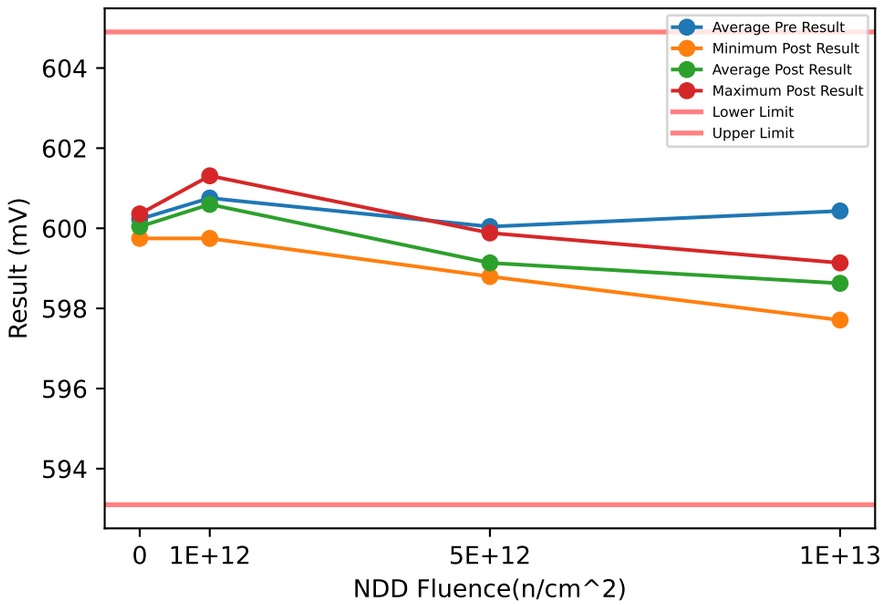
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.96	600.76	-0.199
304	1e+12	NDD Unbiased	601.64	601.44	-0.199
305	1e+12	NDD Unbiased	600.21	599.88	-0.3349
306	1e+12	NDD Unbiased	600.15	599.81	-0.3348
307	5e+12	NDD Unbiased	601.23	600.56	-0.6746
308	5e+12	NDD Unbiased	599.87	598.86	-1.0144
309	5e+12	NDD Unbiased	598.65	597.98	-0.6747
310	5e+12	NDD Unbiased	599.6	598.38	-1.2182
311	1e+13	NDD Unbiased	600.35	598.45	-1.8977
312	1e+13	NDD Unbiased	599.33	597.57	-1.7617
313	1e+13	NDD Unbiased	600.89	599.2	-1.6937
314	1e+13	NDD Unbiased	600.55	598.72	-1.8297
315	0	Correlation	599.67	599.54	-0.131
316	0	Correlation	598.85	598.79	-0.0631
317	0	Correlation	600.35	600.22	-0.1311

Test Statistics (mV)

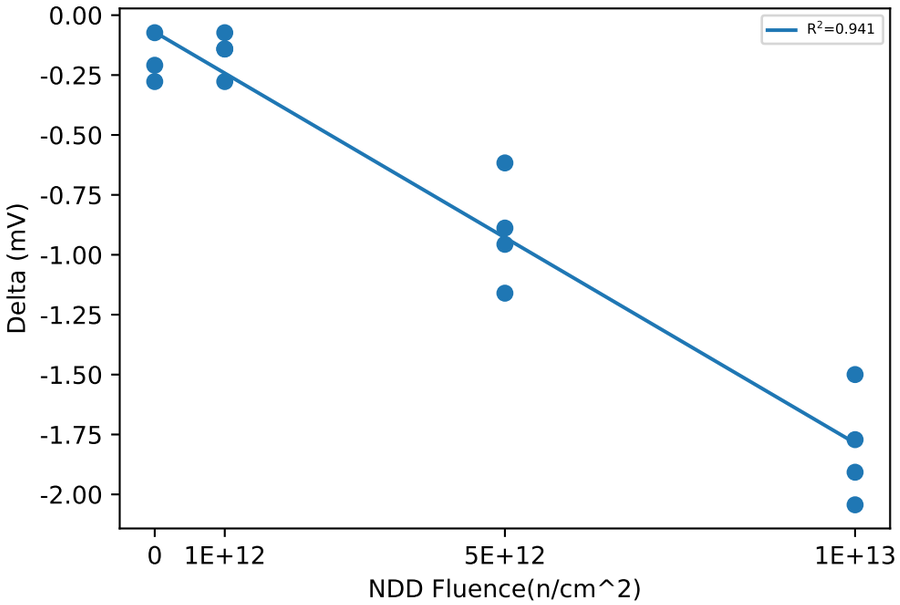
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.85	599.62	600.35	0.74843	598.79	599.52	600.22	0.71367	-0.1311	-0.1084	-0.0631	0.039231
1e+12	600.15	600.74	601.64	0.70474	599.81	600.47	601.44	0.77739	-0.3349	-0.26693	-0.199	0.078433
5e+12	598.65	599.84	601.23	1.0664	597.98	598.94	600.56	1.1347	-1.2182	-0.89548	-0.6746	0.26822
1e+13	599.33	600.28	600.89	0.67261	597.57	598.49	599.2	0.68509	-1.8977	-1.7957	-1.6937	0.087788

Device Test: 13.20; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

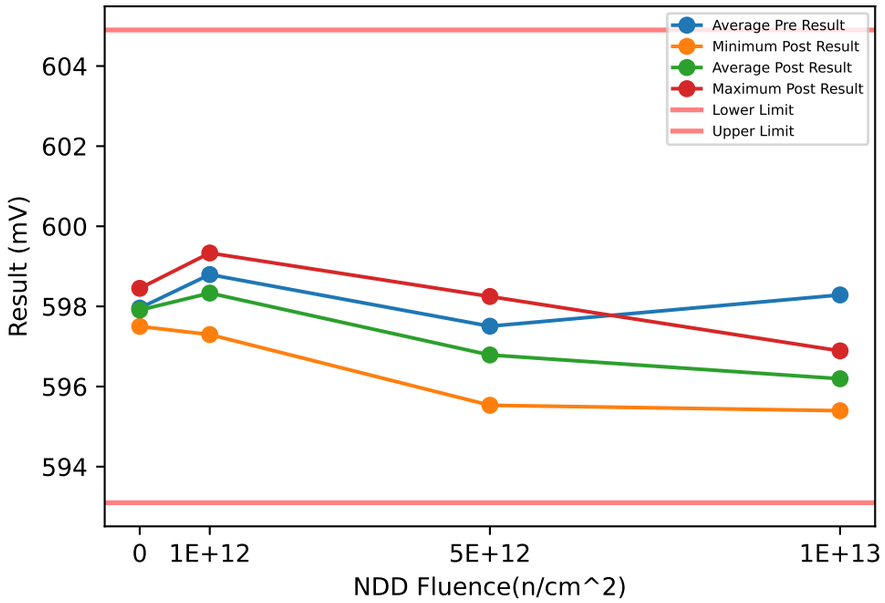
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	601.11	600.83	-0.2771
304	1e+12	NDD Unbiased	601.45	601.31	-0.1412
305	1e+12	NDD Unbiased	600.64	600.49	-0.1412
306	1e+12	NDD Unbiased	599.82	599.75	-0.0732
307	5e+12	NDD Unbiased	600.5	599.88	-0.6167
308	5e+12	NDD Unbiased	600.23	599.07	-1.1603
309	5e+12	NDD Unbiased	599.68	598.8	-0.8885
310	5e+12	NDD Unbiased	599.75	598.8	-0.9564
311	1e+13	NDD Unbiased	600.09	598.59	-1.4999
312	1e+13	NDD Unbiased	599.48	597.71	-1.7715
313	1e+13	NDD Unbiased	601.04	599.14	-1.9075
314	1e+13	NDD Unbiased	601.11	599.07	-2.0435
315	0	Correlation	600.09	600.02	-0.0732
316	0	Correlation	600.02	599.75	-0.2771
317	0	Correlation	600.57	600.36	-0.2091

Test Statistics (mV)

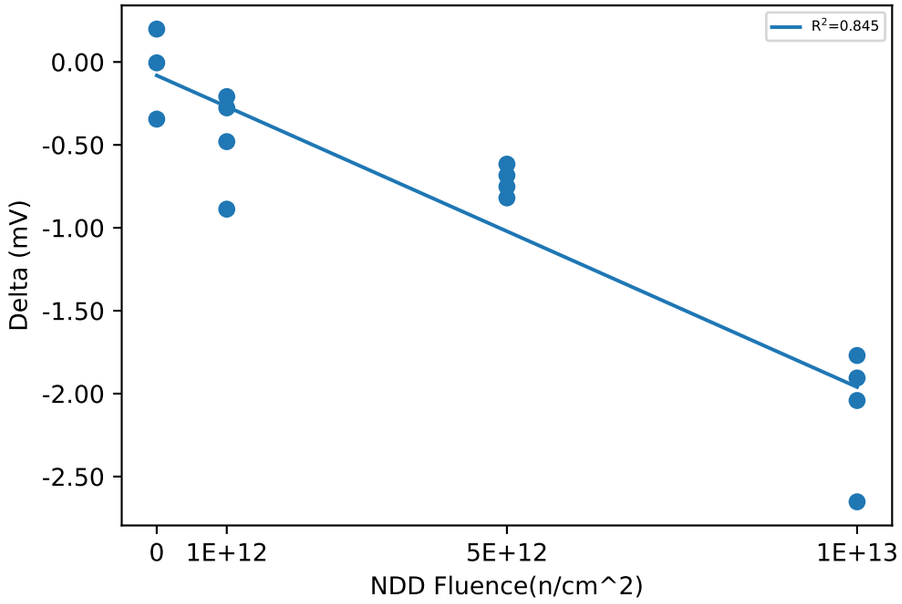
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	600.02	600.23	600.57	0.29608	599.75	600.04	600.36	0.30633	-0.2771	-0.18647	-0.0732	0.10382
1e+12	599.82	600.75	601.45	0.70689	599.75	600.6	601.31	0.65752	-0.2771	-0.15818	-0.0732	0.085518
5e+12	599.68	600.04	600.5	0.38977	598.8	599.14	599.88	0.51442	-1.1603	-0.90548	-0.6167	0.22451
1e+13	599.48	600.43	601.11	0.78646	597.71	598.63	599.14	0.65745	-2.0435	-1.8056	-1.4999	0.23209

Device Test: 13.21; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

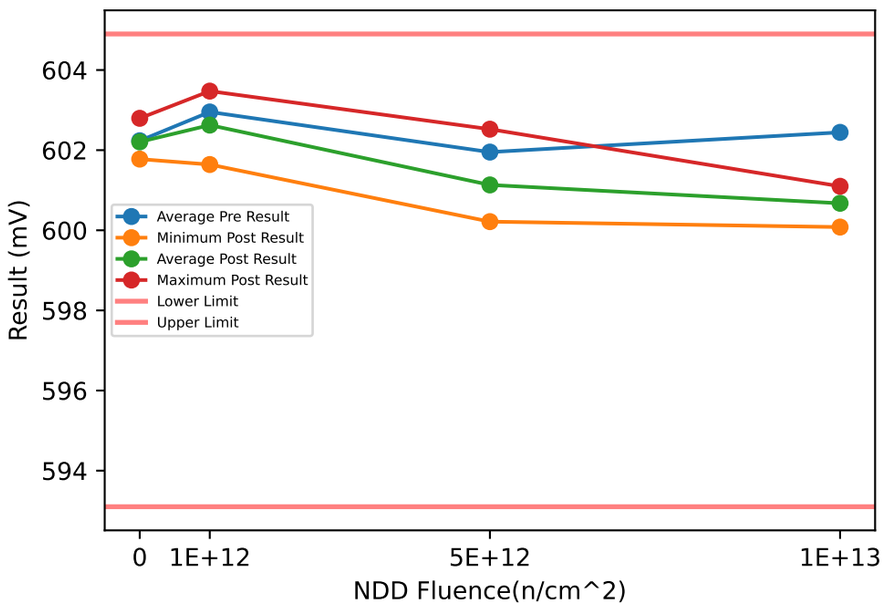
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	598.8	598.32	-0.4804
304	1e+12	NDD Unbiased	600.22	599.33	-0.8876
305	1e+12	NDD Unbiased	598.66	598.38	-0.2767
306	1e+12	NDD Unbiased	597.51	597.3	-0.2088
307	5e+12	NDD Unbiased	598.86	598.25	-0.6161
308	5e+12	NDD Unbiased	597.85	597.16	-0.684
309	5e+12	NDD Unbiased	596.96	596.21	-0.7518
310	5e+12	NDD Unbiased	596.35	595.53	-0.8197
311	1e+13	NDD Unbiased	597.91	596.01	-1.9057
312	1e+13	NDD Unbiased	597.17	595.4	-1.7699
313	1e+13	NDD Unbiased	599.54	596.89	-2.6524
314	1e+13	NDD Unbiased	598.52	596.48	-2.0415
315	0	Correlation	597.85	597.5	-0.3446
316	0	Correlation	597.57	597.77	0.1984
317	0	Correlation	598.46	598.45	-0.0052

Test Statistics (mV)

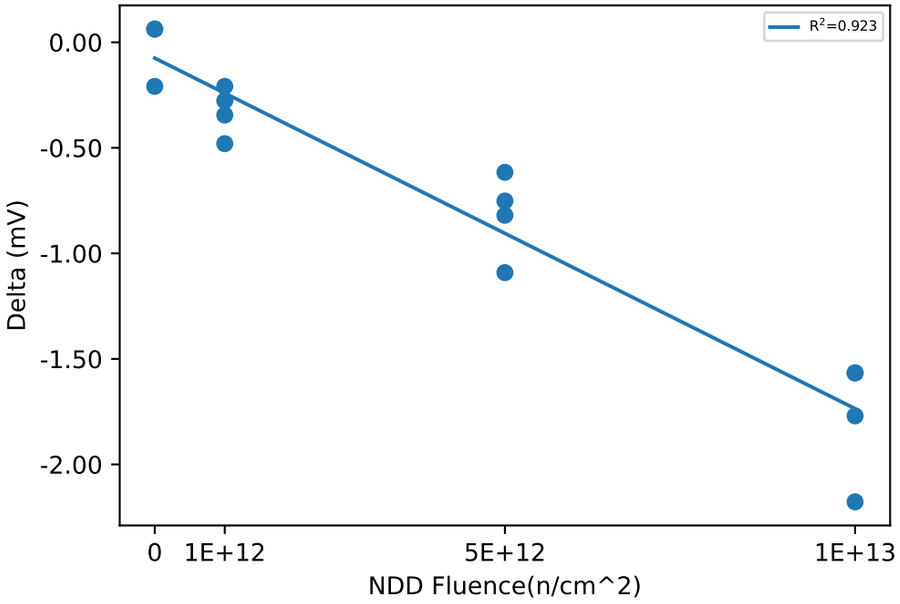
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	597.57	597.96	598.46	0.45195	597.5	597.91	598.45	0.48948	-0.3446	-0.050467	0.1984	0.27432
1e+12	597.51	598.8	600.22	1.1125	597.3	598.33	599.33	0.83197	-0.8876	-0.46338	-0.2088	0.30546
5e+12	596.35	597.51	598.86	1.0931	595.53	596.79	598.25	1.1802	-0.8197	-0.7179	-0.6161	0.087607
1e+13	597.17	598.29	599.54	1.0045	595.4	596.19	596.89	0.64241	-2.6524	-2.0924	-1.7699	0.38947

Device Test: 13.22; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

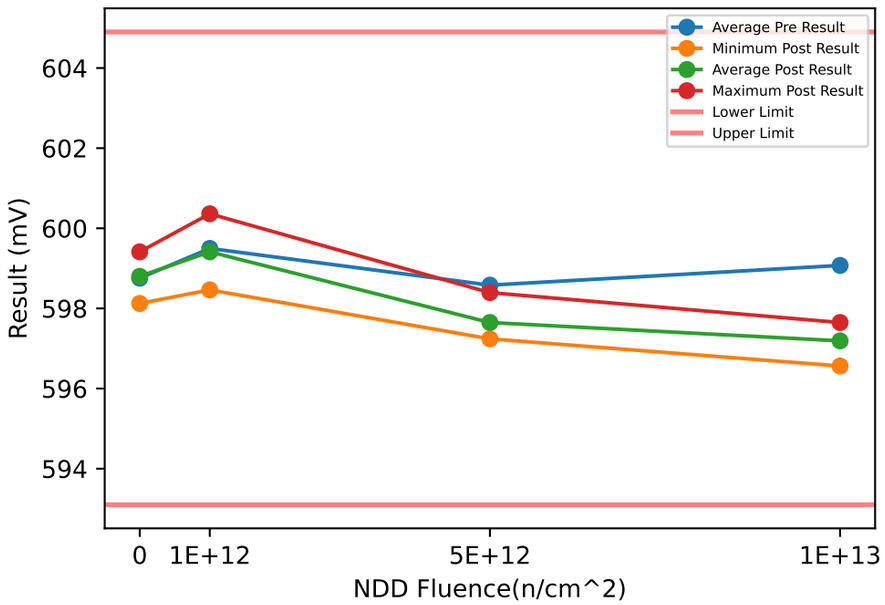
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	602.94	602.66	-0.2767
304	1e+12	NDD Unbiased	603.82	603.47	-0.3446
305	1e+12	NDD Unbiased	603.21	602.73	-0.4803
306	1e+12	NDD Unbiased	601.85	601.64	-0.2088
307	5e+12	NDD Unbiased	603.34	602.52	-0.8197
308	5e+12	NDD Unbiased	602.26	601.51	-0.7519
309	5e+12	NDD Unbiased	601.31	600.22	-1.0912
310	5e+12	NDD Unbiased	600.9	600.28	-0.6161
311	1e+13	NDD Unbiased	602.46	600.69	-1.77
312	1e+13	NDD Unbiased	601.65	600.08	-1.5663
313	1e+13	NDD Unbiased	603.28	601.1	-2.1772
314	1e+13	NDD Unbiased	602.39	600.83	-1.5663
315	0	Correlation	601.71	601.78	0.0626
316	0	Correlation	602.26	602.05	-0.2089
317	0	Correlation	602.73	602.79	0.0626

Test Statistics (mV)

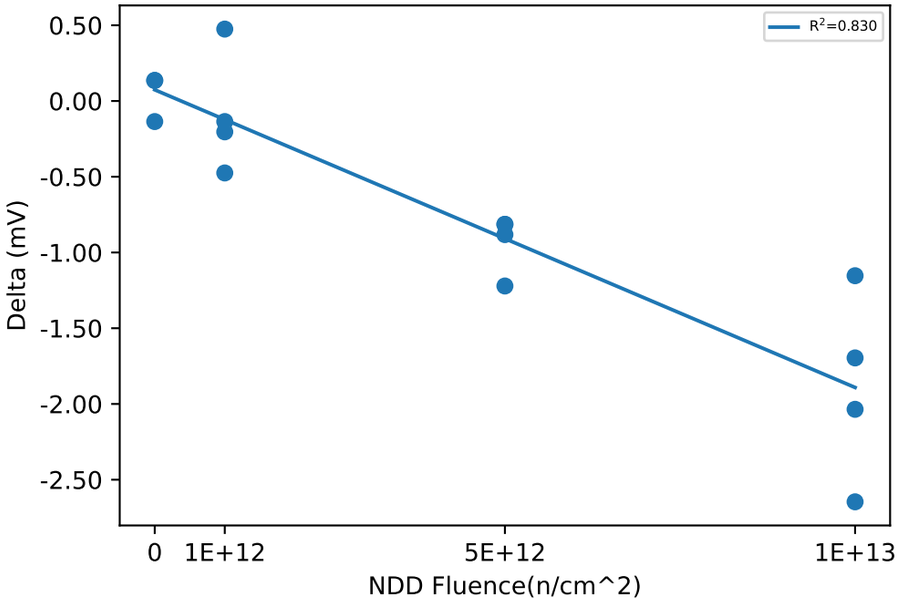
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	601.71	602.23	602.73	0.50943	601.78	602.21	602.79	0.5272	-0.2089	-0.0279	0.0626	0.15675
1e+12	601.85	602.95	603.82	0.82272	601.64	602.63	603.47	0.75276	-0.4803	-0.3276	-0.2088	0.11592
5e+12	600.9	601.95	603.34	1.0881	600.22	601.13	602.52	1.1007	-1.0912	-0.81973	-0.6161	0.1998
1e+13	601.65	602.44	603.28	0.6659	600.08	600.67	601.1	0.43061	-2.1772	-1.7699	-1.5663	0.28798

Device Test: 13.23; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

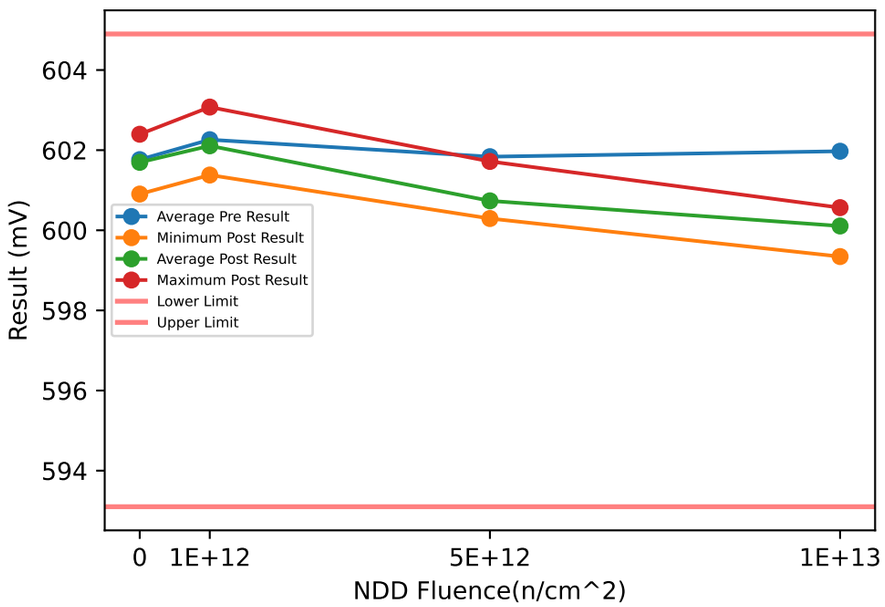
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	599.48	599.95	0.4749
304	1e+12	NDD Unbiased	600.57	600.36	-0.2035
305	1e+12	NDD Unbiased	599.34	598.87	-0.4749
306	1e+12	NDD Unbiased	598.6	598.46	-0.1356
307	5e+12	NDD Unbiased	599.28	598.39	-0.8819
308	5e+12	NDD Unbiased	598.05	597.24	-0.8141
309	5e+12	NDD Unbiased	598.05	597.24	-0.8141
310	5e+12	NDD Unbiased	598.94	597.72	-1.2212
311	1e+13	NDD Unbiased	598.73	597.04	-1.696
312	1e+13	NDD Unbiased	598.6	596.56	-2.0353
313	1e+13	NDD Unbiased	600.29	597.65	-2.646
314	1e+13	NDD Unbiased	598.67	597.51	-1.1534
315	0	Correlation	597.99	598.12	0.1358
316	0	Correlation	599.28	599.41	0.1357
317	0	Correlation	599	598.87	-0.1357

Test Statistics (mV)

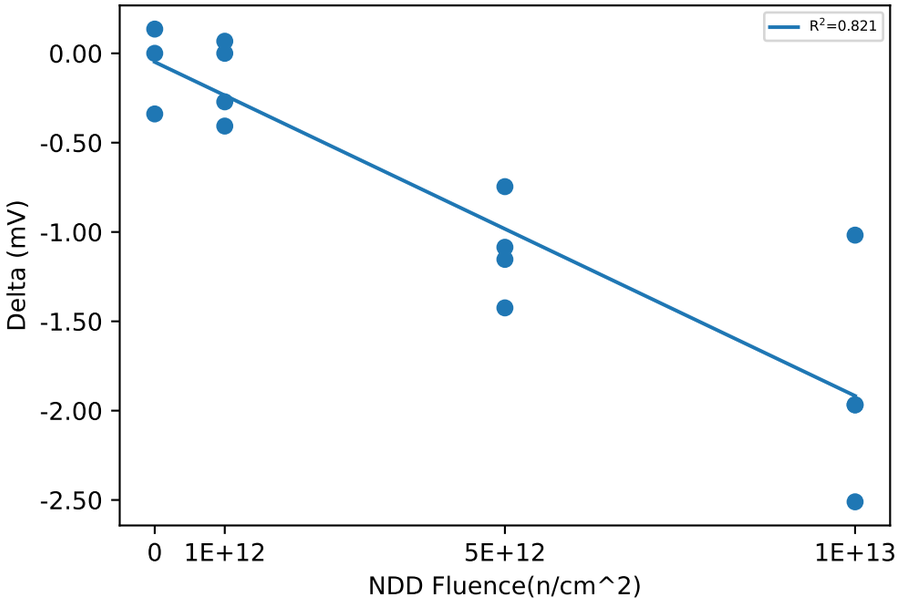
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	597.99	598.76	599.28	0.6796	598.12	598.8	599.41	0.64717	-0.1357	0.045267	0.1358	0.15672
1e+12	598.6	599.5	600.57	0.81107	598.46	599.41	600.36	0.8932	-0.4749	-0.084775	0.4749	0.40088
5e+12	598.05	598.58	599.28	0.62279	597.24	597.65	598.39	0.54564	-1.2212	-0.93283	-0.8141	0.19489
1e+13	598.6	599.07	600.29	0.81605	596.56	597.19	597.65	0.49351	-2.646	-1.8827	-1.1534	0.62521

Device Test: 13.24; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

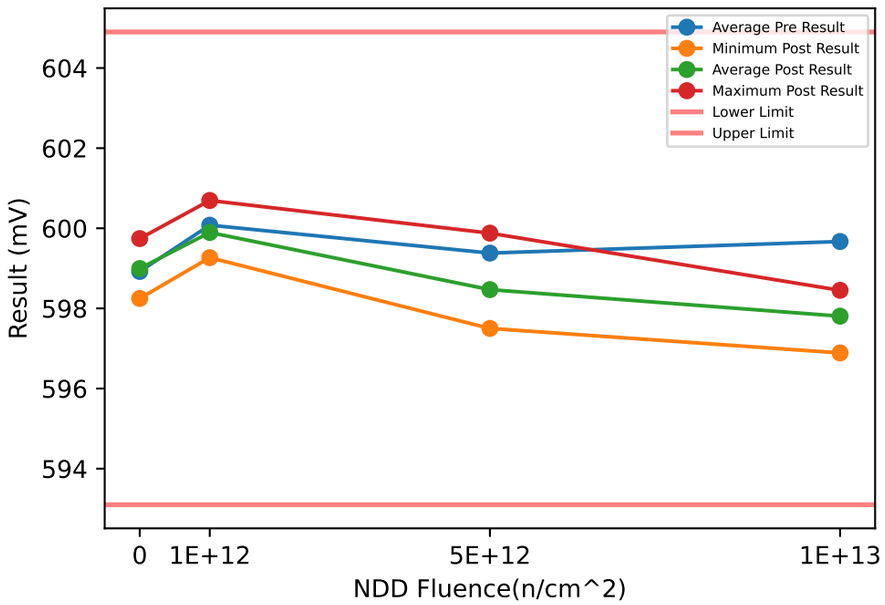
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	602.4	602.4	0.0001
304	1e+12	NDD Unbiased	603.01	603.08	0.0678
305	1e+12	NDD Unbiased	601.99	601.58	-0.4071
306	1e+12	NDD Unbiased	601.65	601.38	-0.2714
307	5e+12	NDD Unbiased	602.8	601.72	-1.0855
308	5e+12	NDD Unbiased	601.18	600.43	-0.7462
309	5e+12	NDD Unbiased	601.45	600.29	-1.1533
310	5e+12	NDD Unbiased	601.92	600.5	-1.4247
311	1e+13	NDD Unbiased	601.99	600.02	-1.9675
312	1e+13	NDD Unbiased	601.31	599.34	-1.9674
313	1e+13	NDD Unbiased	603.01	600.5	-2.5103
314	1e+13	NDD Unbiased	601.58	600.57	-1.0176
315	0	Correlation	601.24	600.9	-0.3392
316	0	Correlation	602.26	602.4	0.1358
317	0	Correlation	601.79	601.79	0.0001

Test Statistics (mV)

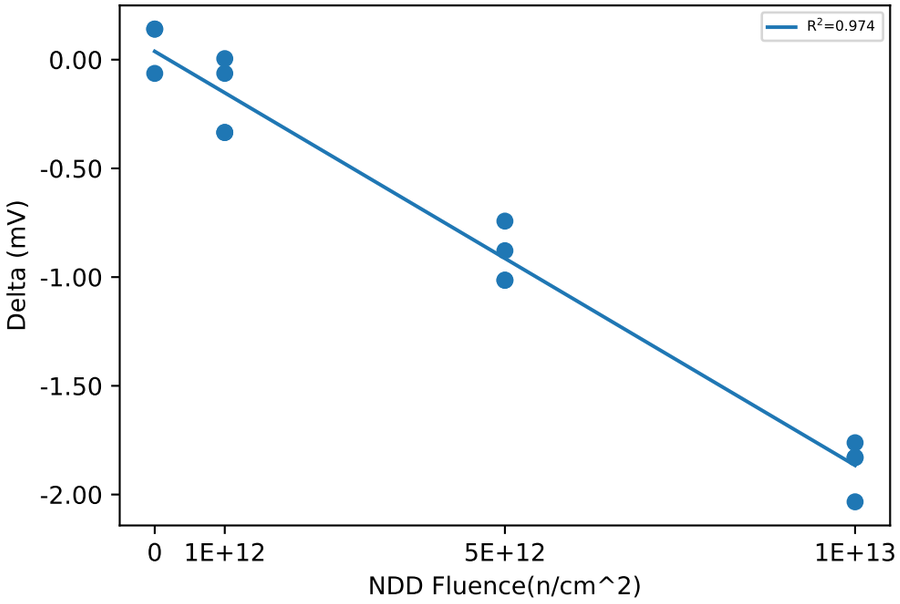
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	601.24	601.76	602.26	0.50918	600.9	601.7	602.4	0.7504	-0.3392	-0.067767	0.1358	0.24466
1e+12	601.65	602.26	603.01	0.58362	601.38	602.11	603.08	0.78022	-0.4071	-0.15265	0.0678	0.22419
5e+12	601.18	601.84	602.8	0.71453	600.29	600.73	601.72	0.66125	-1.4247	-1.1024	-0.7462	0.27907
1e+13	601.31	601.97	603.01	0.74401	599.34	600.11	600.57	0.56321	-2.5103	-1.8657	-1.0176	0.62061

Device Test: 13.25; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

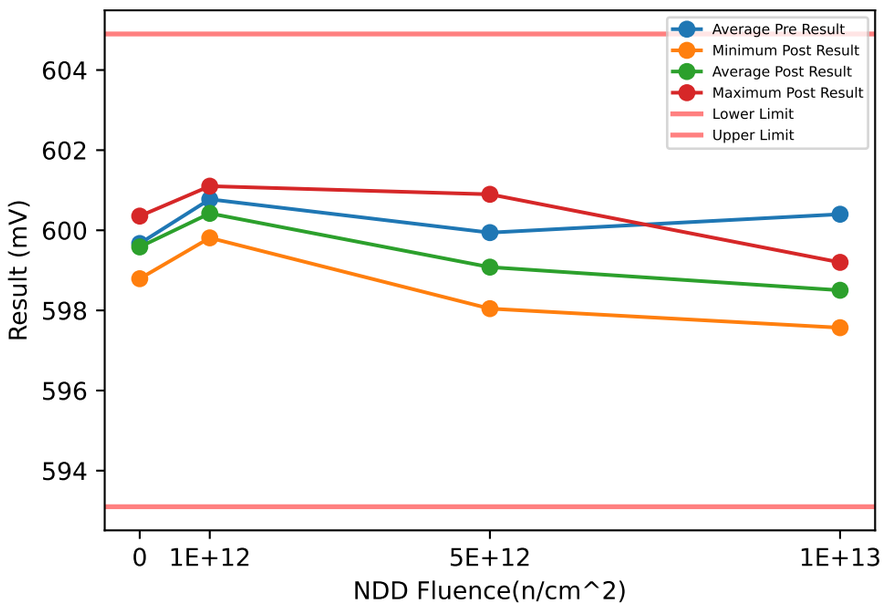
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.35	600.35	0.0048
304	1e+12	NDD Unbiased	601.03	600.69	-0.3349
305	1e+12	NDD Unbiased	599.6	599.27	-0.3349
306	1e+12	NDD Unbiased	599.33	599.27	-0.0631
307	5e+12	NDD Unbiased	600.76	599.88	-0.8785
308	5e+12	NDD Unbiased	599.47	598.45	-1.0144
309	5e+12	NDD Unbiased	598.24	597.5	-0.7425
310	5e+12	NDD Unbiased	599.06	598.04	-1.0143
311	1e+13	NDD Unbiased	599.67	597.84	-1.8297
312	1e+13	NDD Unbiased	598.65	596.89	-1.7618
313	1e+13	NDD Unbiased	600.28	598.45	-1.8297
314	1e+13	NDD Unbiased	600.08	598.04	-2.0335
315	0	Correlation	598.85	599	0.1407
316	0	Correlation	598.31	598.25	-0.0632
317	0	Correlation	599.6	599.74	0.1407

Test Statistics (mV)

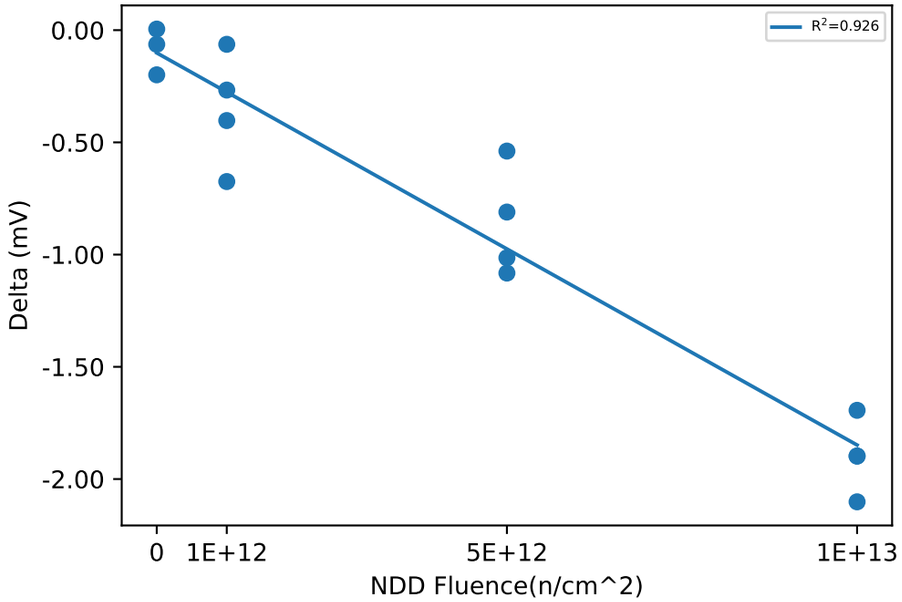
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.31	598.92	599.6	0.64813	598.25	599	599.74	0.7474	-0.0632	0.072733	0.1407	0.11772
1e+12	599.33	600.08	601.03	0.76669	599.27	599.9	600.69	0.73883	-0.3349	-0.18202	0.0048	0.17869
5e+12	598.24	599.38	600.76	1.0488	597.5	598.47	599.88	1.0174	-1.0144	-0.91243	-0.7425	0.13013
1e+13	598.65	599.67	600.28	0.72542	596.89	597.81	598.45	0.66224	-2.0335	-1.8637	-1.7618	0.11765

Device Test: 13.26; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

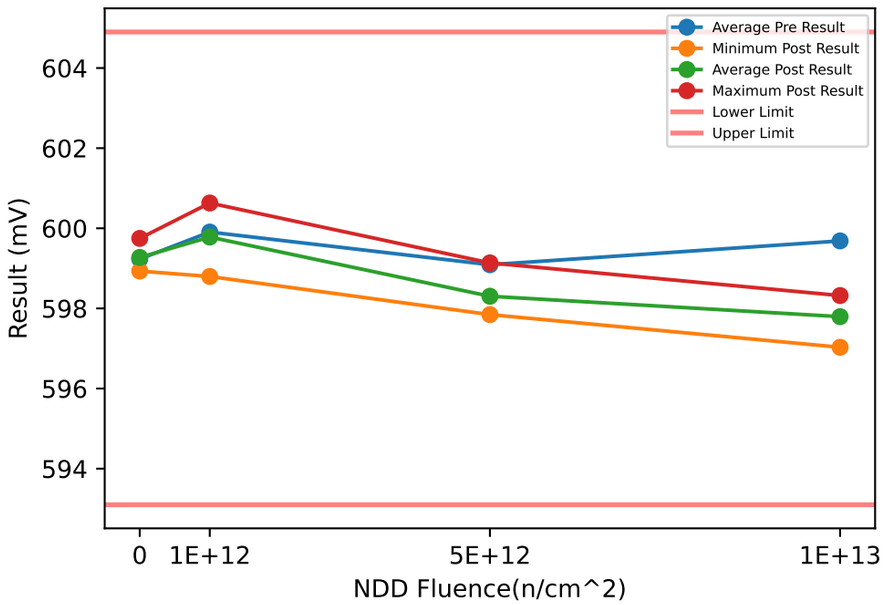
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.89	600.83	-0.0631
304	1e+12	NDD Unbiased	601.78	601.1	-0.6746
305	1e+12	NDD Unbiased	600.35	599.95	-0.4028
306	1e+12	NDD Unbiased	600.08	599.81	-0.2669
307	5e+12	NDD Unbiased	601.44	600.9	-0.5388
308	5e+12	NDD Unbiased	599.94	598.86	-1.0823
309	5e+12	NDD Unbiased	598.85	598.04	-0.8105
310	5e+12	NDD Unbiased	599.53	598.52	-1.0143
311	1e+13	NDD Unbiased	600.28	598.59	-1.6938
312	1e+13	NDD Unbiased	599.47	597.57	-1.8976
313	1e+13	NDD Unbiased	601.1	599.2	-1.8975
314	1e+13	NDD Unbiased	600.76	598.66	-2.1015
315	0	Correlation	599.67	599.61	-0.0631
316	0	Correlation	598.99	598.79	-0.199
317	0	Correlation	600.35	600.35	0.0048

Test Statistics (mV)

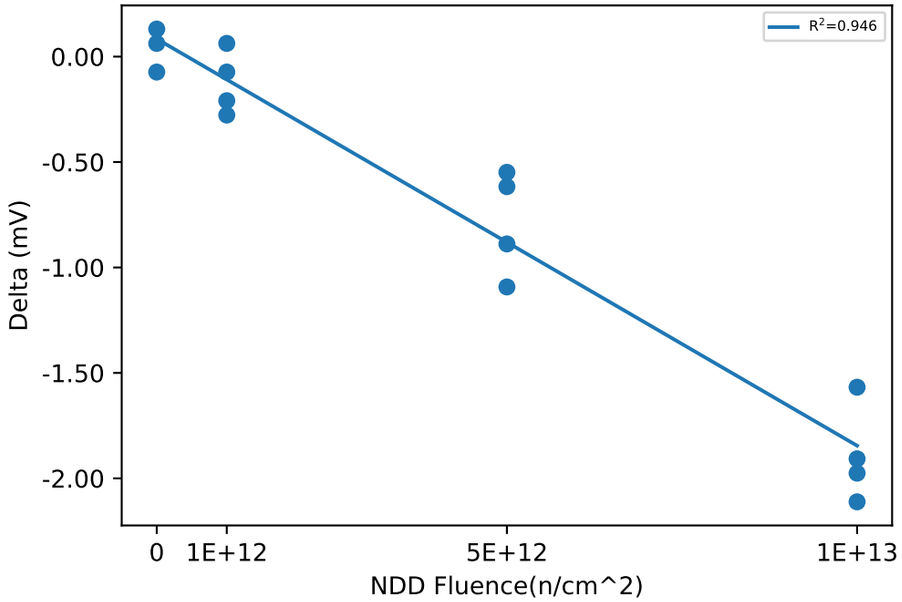
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.99	599.67	600.35	0.67945	598.79	599.58	600.35	0.7816	-0.199	-0.085767	0.0048	0.10377
1e+12	600.08	600.77	601.78	0.74918	599.81	600.42	601.1	0.63975	-0.6746	-0.35185	-0.0631	0.25649
5e+12	598.85	599.94	601.44	1.0928	598.04	599.08	600.9	1.2569	-1.0823	-0.86148	-0.5388	0.24416
1e+13	599.47	600.4	601.1	0.70691	597.57	598.5	599.2	0.6803	-2.1015	-1.8976	-1.6938	0.16644

Device Test: 13.27; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

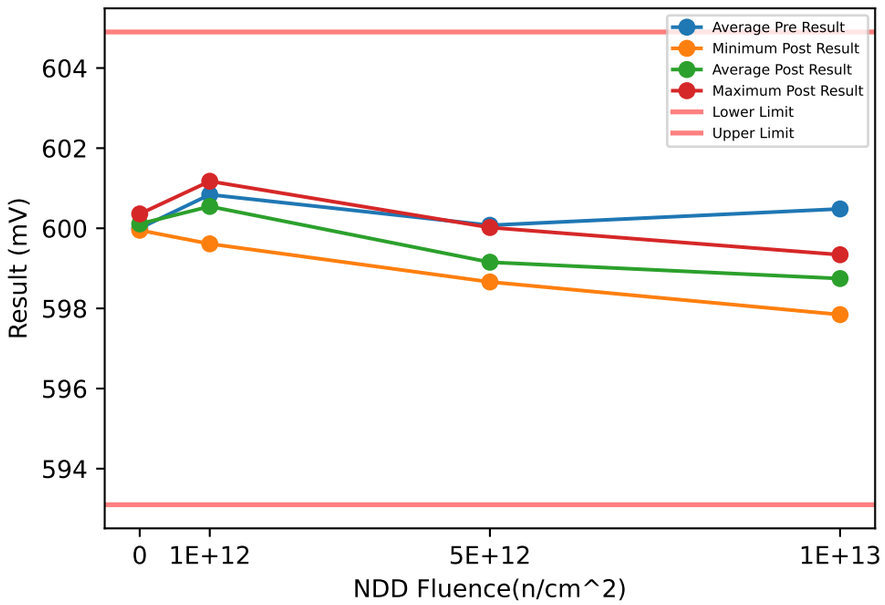
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.23	600.02	-0.2091
304	1e+12	NDD Unbiased	600.57	600.63	0.0627
305	1e+12	NDD Unbiased	599.75	599.68	-0.0732
306	1e+12	NDD Unbiased	599.07	598.8	-0.2771
307	5e+12	NDD Unbiased	599.68	599.14	-0.5488
308	5e+12	NDD Unbiased	599.21	598.32	-0.8884
309	5e+12	NDD Unbiased	598.53	597.91	-0.6167
310	5e+12	NDD Unbiased	598.94	597.85	-1.0923
311	1e+13	NDD Unbiased	599.62	597.51	-2.1113
312	1e+13	NDD Unbiased	598.6	597.03	-1.5678
313	1e+13	NDD Unbiased	600.23	598.32	-1.9075
314	1e+13	NDD Unbiased	600.3	598.32	-1.9754
315	0	Correlation	599.07	599.14	0.0626
316	0	Correlation	599.01	598.93	-0.0732
317	0	Correlation	599.62	599.75	0.1306

Test Statistics (mV)

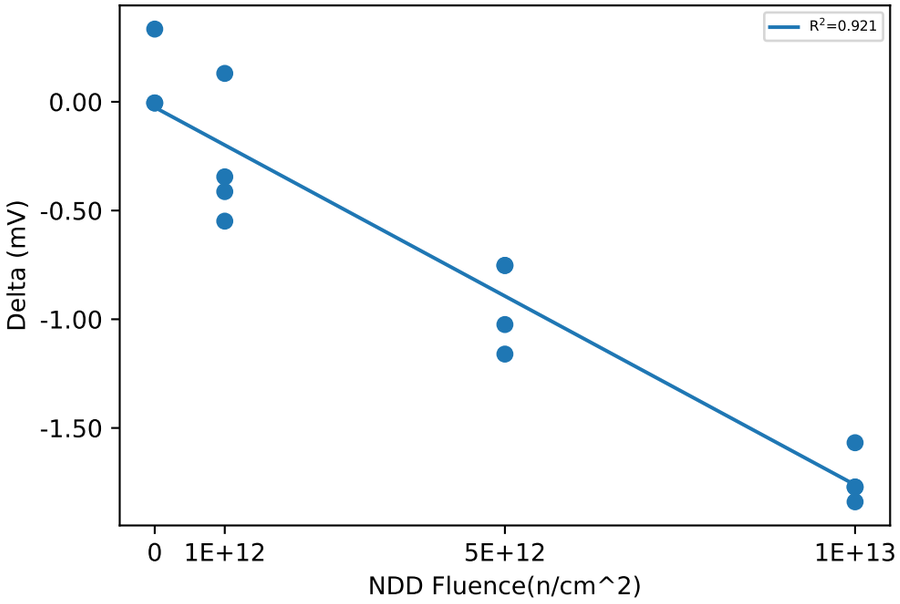
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.01	599.23	599.62	0.33509	598.93	599.27	599.75	0.42424	-0.0732	0.04	0.1306	0.10376
1e+12	599.07	599.91	600.57	0.64774	598.8	599.78	600.63	0.76561	-0.2771	-0.12418	0.0627	0.15069
5e+12	598.53	599.09	599.68	0.48479	597.85	598.3	599.14	0.59324	-1.0923	-0.78655	-0.5488	0.25115
1e+13	598.6	599.68	600.3	0.78643	597.03	597.79	598.32	0.63822	-2.1113	-1.8905	-1.5678	0.23122

Device Test: 13.28; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

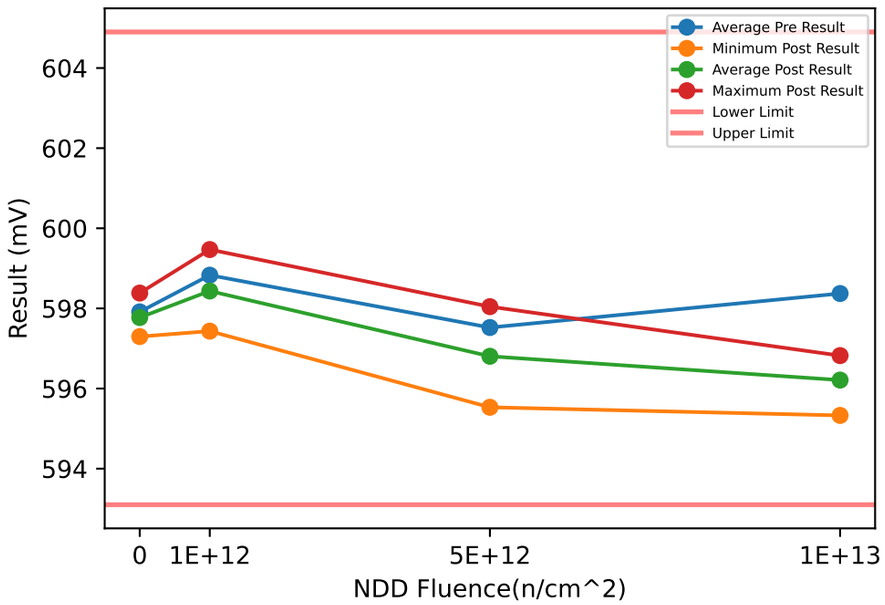
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.77	600.9	0.1306
304	1e+12	NDD Unbiased	601.72	601.17	-0.5488
305	1e+12	NDD Unbiased	600.84	600.49	-0.345
306	1e+12	NDD Unbiased	600.02	599.61	-0.4129
307	5e+12	NDD Unbiased	600.77	600.02	-0.7526
308	5e+12	NDD Unbiased	600.36	599.2	-1.1602
309	5e+12	NDD Unbiased	599.41	598.66	-0.7525
310	5e+12	NDD Unbiased	599.75	598.73	-1.0243
311	1e+13	NDD Unbiased	600.23	598.66	-1.5678
312	1e+13	NDD Unbiased	599.62	597.85	-1.7716
313	1e+13	NDD Unbiased	600.98	599.14	-1.8396
314	1e+13	NDD Unbiased	601.11	599.34	-1.7717
315	0	Correlation	600.02	600.02	-0.0053
316	0	Correlation	599.62	599.95	0.3345
317	0	Correlation	600.36	600.36	-0.0053

Test Statistics (mV)

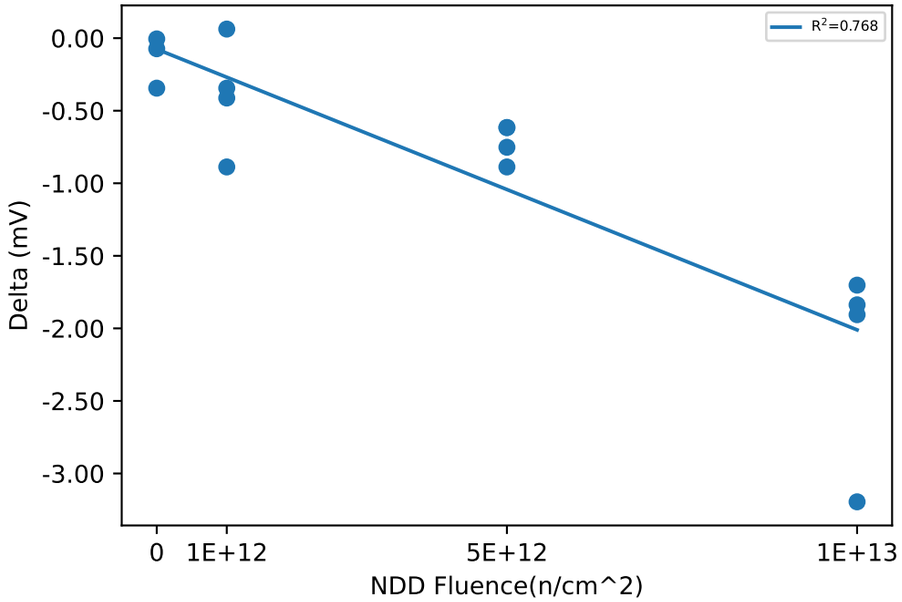
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.62	600	600.36	0.37417	599.95	600.11	600.36	0.21832	-0.0053	0.10797	0.3345	0.19618
1e+12	600.02	600.84	601.72	0.69503	599.61	600.55	601.17	0.68246	-0.5488	-0.29403	0.1306	0.29549
5e+12	599.41	600.08	600.77	0.60861	598.66	599.15	600.02	0.62603	-1.1602	-0.9224	-0.7525	0.20382
1e+13	599.62	600.48	601.11	0.6959	597.85	598.75	599.34	0.66419	-1.8396	-1.7377	-1.5678	0.11769

Device Test: 13.29; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

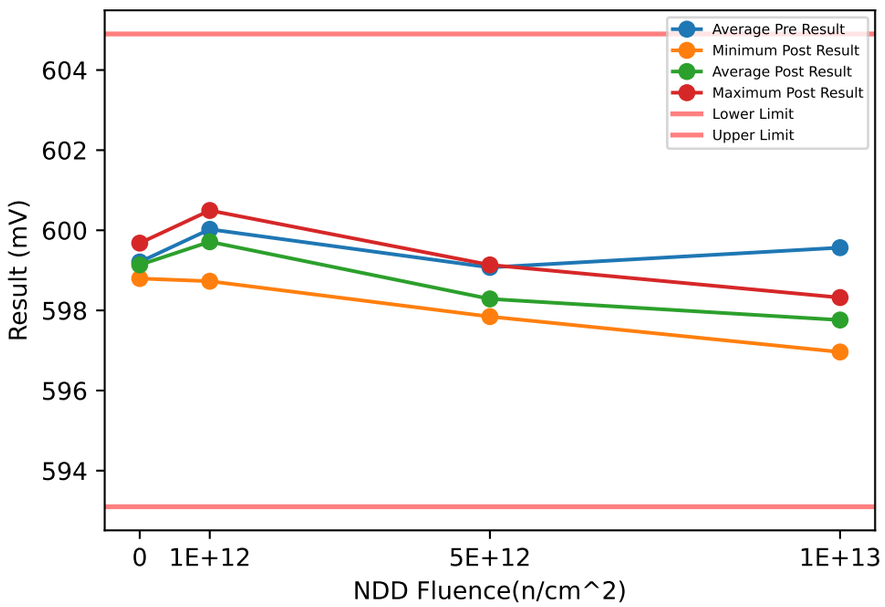
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	598.8	598.38	-0.4125
304	1e+12	NDD Unbiased	600.36	599.47	-0.8876
305	1e+12	NDD Unbiased	598.8	598.45	-0.3446
306	1e+12	NDD Unbiased	597.37	597.43	0.0626
307	5e+12	NDD Unbiased	598.93	598.04	-0.8876
308	5e+12	NDD Unbiased	597.91	597.3	-0.6161
309	5e+12	NDD Unbiased	596.96	596.35	-0.6161
310	5e+12	NDD Unbiased	596.28	595.53	-0.7519
311	1e+13	NDD Unbiased	597.91	596.21	-1.7021
312	1e+13	NDD Unbiased	597.17	595.33	-1.8378
313	1e+13	NDD Unbiased	600.02	596.82	-3.1953
314	1e+13	NDD Unbiased	598.39	596.48	-1.9057
315	0	Correlation	597.3	597.3	-0.0052
316	0	Correlation	597.71	597.64	-0.073
317	0	Correlation	598.73	598.38	-0.3446

Test Statistics (mV)

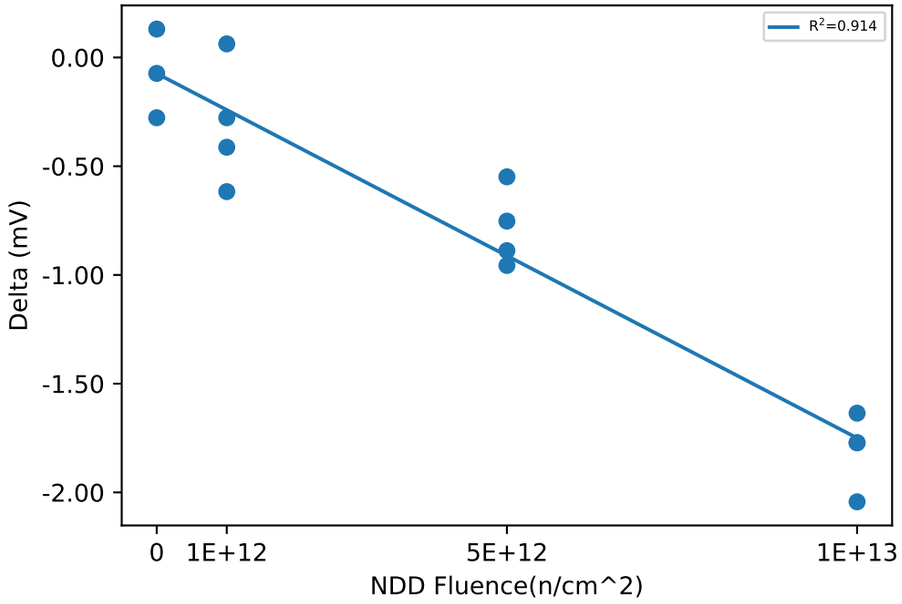
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	597.3	597.91	598.73	0.7342	597.3	597.77	598.38	0.55558	-0.3446	-0.14093	-0.0052	0.17961
1e+12	597.37	598.83	600.36	1.2199	597.43	598.43	599.47	0.83201	-0.8876	-0.39553	0.0626	0.3894
5e+12	596.28	597.52	598.93	1.1524	595.53	596.81	598.04	1.0964	-0.8876	-0.71793	-0.6161	0.12998
1e+13	597.17	598.37	600.02	1.2071	595.33	596.21	596.82	0.63915	-3.1953	-2.1602	-1.7021	0.69522

Device Test: 13.3; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

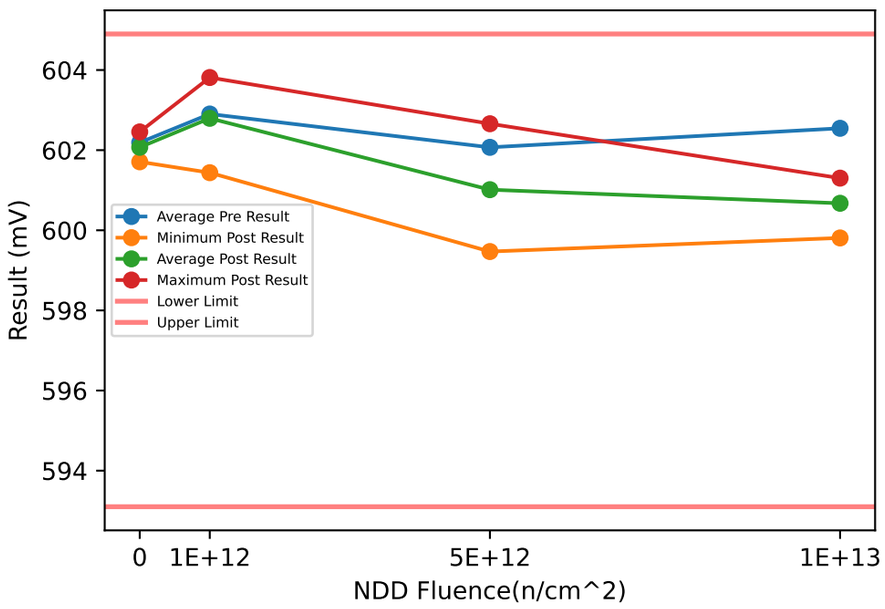
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.02	600.09	0.0626
304	1e+12	NDD Unbiased	600.77	600.49	-0.2771
305	1e+12	NDD Unbiased	600.16	599.54	-0.6168
306	1e+12	NDD Unbiased	599.14	598.73	-0.4128
307	5e+12	NDD Unbiased	599.68	599.14	-0.5488
308	5e+12	NDD Unbiased	599.14	598.25	-0.8884
309	5e+12	NDD Unbiased	598.6	597.85	-0.7526
310	5e+12	NDD Unbiased	598.87	597.91	-0.9564
311	1e+13	NDD Unbiased	599.21	597.44	-1.7716
312	1e+13	NDD Unbiased	598.73	596.96	-1.7717
313	1e+13	NDD Unbiased	599.96	598.32	-1.6357
314	1e+13	NDD Unbiased	600.36	598.32	-2.0433
315	0	Correlation	599.07	598.8	-0.2771
316	0	Correlation	599.01	598.93	-0.0732
317	0	Correlation	599.55	599.68	0.1306

Test Statistics (mV)

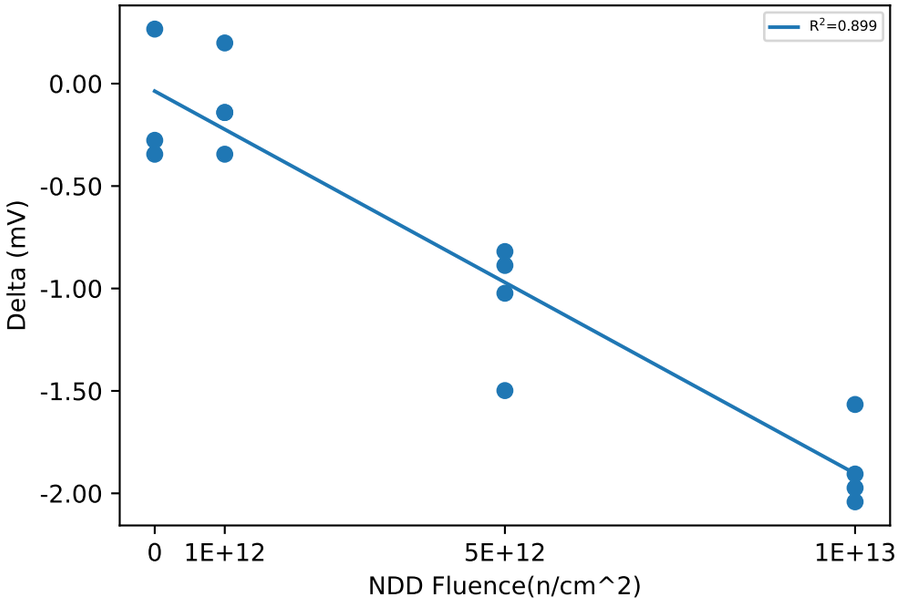
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.01	599.21	599.55	0.29612	598.8	599.14	599.68	0.47556	-0.2771	-0.073233	0.1306	0.20385
1e+12	599.14	600.02	600.77	0.67259	598.73	599.71	600.49	0.76357	-0.6168	-0.31103	0.0626	0.28554
5e+12	598.6	599.07	599.68	0.4641	597.85	598.29	599.14	0.59357	-0.9564	-0.78655	-0.5488	0.17972
1e+13	598.73	599.57	600.36	0.73246	596.96	597.76	598.32	0.67571	-2.0433	-1.8056	-1.6357	0.17095

Device Test: 13.30; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

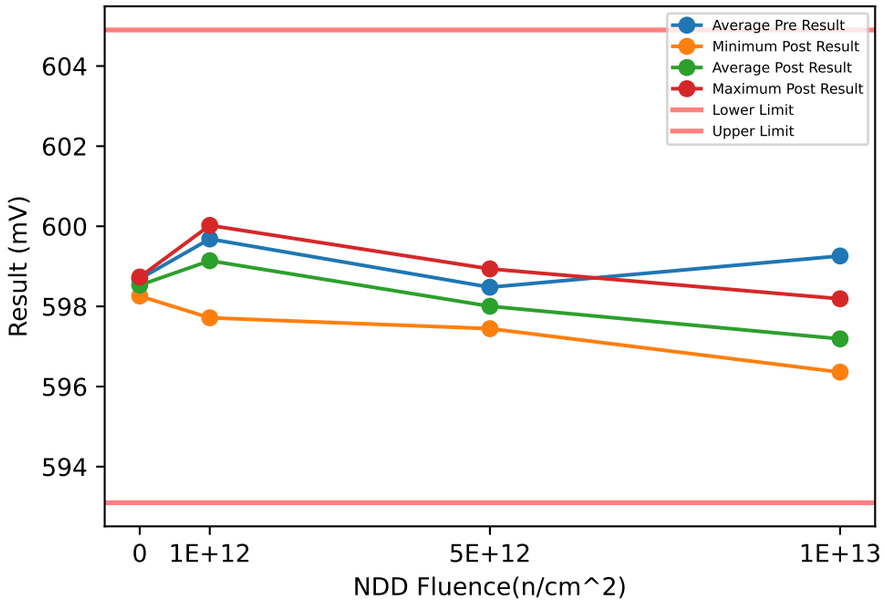
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	603.21	603.07	-0.141
304	1e+12	NDD Unbiased	603.61	603.81	0.1985
305	1e+12	NDD Unbiased	603	602.86	-0.141
306	1e+12	NDD Unbiased	601.78	601.44	-0.3445
307	5e+12	NDD Unbiased	603.68	602.66	-1.0233
308	5e+12	NDD Unbiased	602.39	601.57	-0.8197
309	5e+12	NDD Unbiased	601.24	600.35	-0.8875
310	5e+12	NDD Unbiased	600.97	599.47	-1.4984
311	1e+13	NDD Unbiased	602.33	600.76	-1.5663
312	1e+13	NDD Unbiased	601.71	599.81	-1.9057
313	1e+13	NDD Unbiased	603.34	601.3	-2.0414
314	1e+13	NDD Unbiased	602.8	600.83	-1.9736
315	0	Correlation	601.99	601.71	-0.2767
316	0	Correlation	601.78	602.05	0.2663
317	0	Correlation	602.8	602.46	-0.3446

Test Statistics (mV)

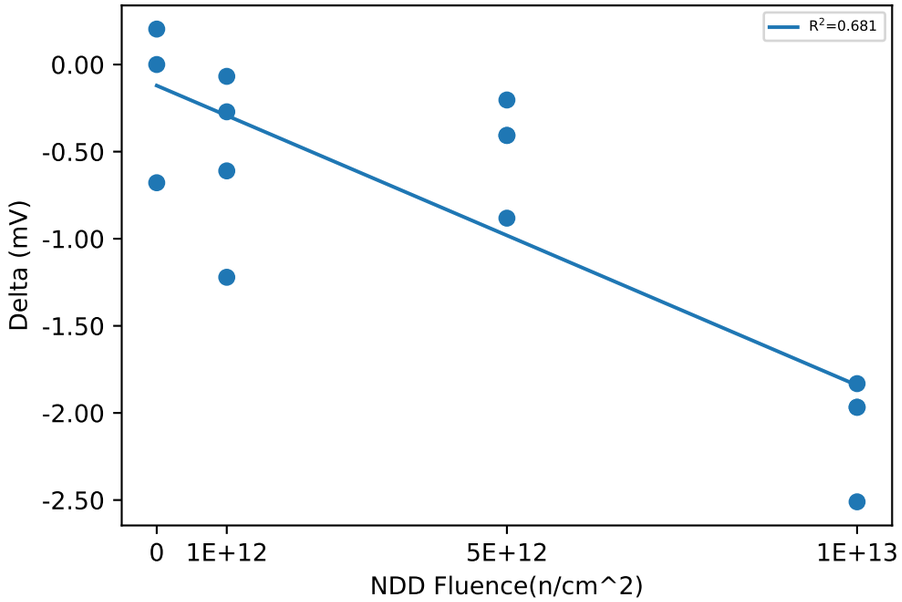
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	601.78	602.19	602.8	0.53877	601.71	602.07	602.46	0.37382	-0.3446	-0.11833	0.2663	0.33483
1e+12	601.78	602.9	603.61	0.78863	601.44	602.8	603.81	0.99291	-0.3445	-0.107	0.1985	0.22513
5e+12	600.97	602.07	603.68	1.2397	599.47	601.01	602.66	1.3958	-1.4984	-1.0572	-0.8197	0.30606
1e+13	601.71	602.55	603.34	0.69299	599.81	600.67	601.3	0.62545	-2.0414	-1.8718	-1.5663	0.21103

Device Test: 13.31; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

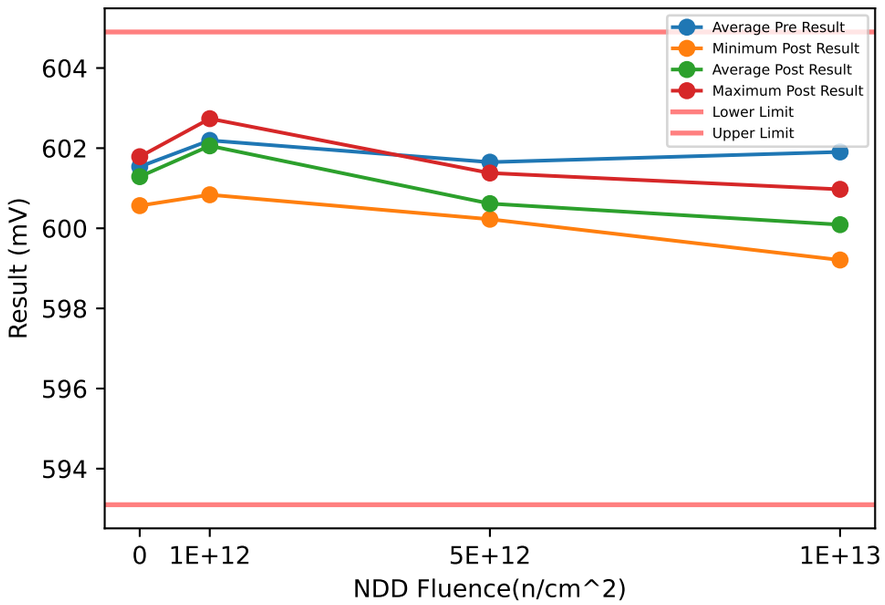
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.09	600.02	-0.0678
304	1e+12	NDD Unbiased	600.84	599.62	-1.2212
305	1e+12	NDD Unbiased	599.48	599.21	-0.2713
306	1e+12	NDD Unbiased	598.33	597.72	-0.6105
307	5e+12	NDD Unbiased	599.82	598.94	-0.8819
308	5e+12	NDD Unbiased	597.85	597.44	-0.407
309	5e+12	NDD Unbiased	597.99	597.78	-0.2035
310	5e+12	NDD Unbiased	598.26	597.85	-0.407
311	1e+13	NDD Unbiased	599.07	597.11	-1.9674
312	1e+13	NDD Unbiased	598.33	596.36	-1.9674
313	1e+13	NDD Unbiased	600.02	598.19	-1.8318
314	1e+13	NDD Unbiased	599.62	597.11	-2.5102
315	0	Correlation	598.05	598.26	0.2036
316	0	Correlation	599.28	598.6	-0.6785
317	0	Correlation	598.73	598.73	0.0001

Test Statistics (mV)

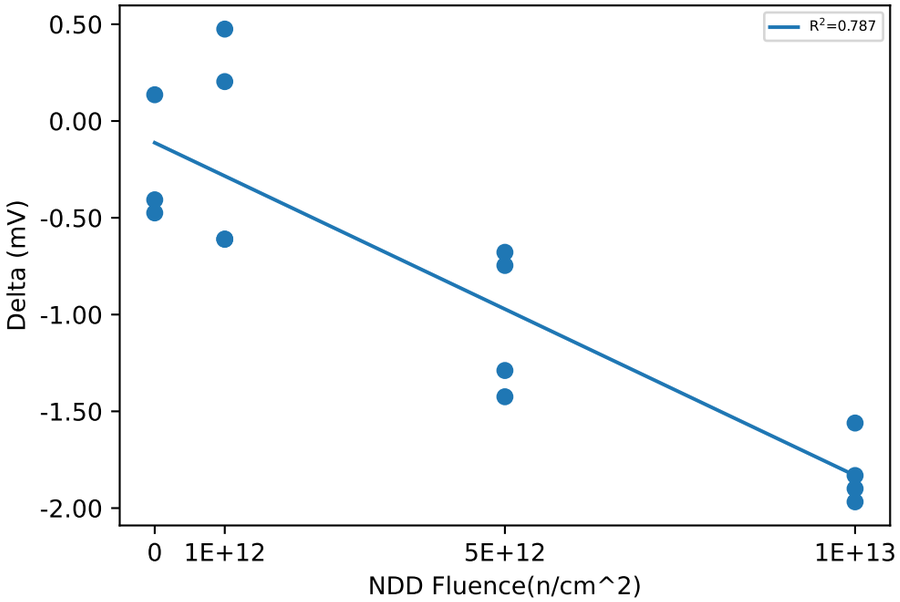
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.05	598.69	599.28	0.61191	598.26	598.53	598.73	0.24465	-0.6785	-0.15827	0.2036	0.46188
1e+12	598.33	599.68	600.84	1.0612	597.72	599.14	600.02	1.0063	-1.2212	-0.5427	-0.0678	0.50469
5e+12	597.85	598.48	599.82	0.90918	597.44	598	598.94	0.64691	-0.8819	-0.47485	-0.2035	0.28782
1e+13	598.33	599.26	600.02	0.73363	596.36	597.19	598.19	0.75421	-2.5102	-2.0692	-1.8318	0.30087

Device Test: 13.32; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

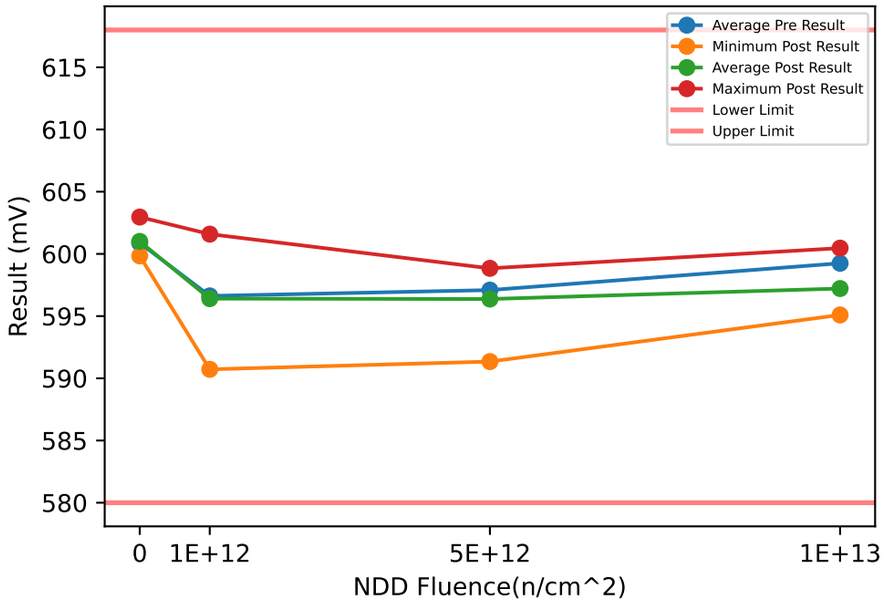
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	602.26	602.74	0.475
304	1e+12	NDD Unbiased	603.08	602.46	-0.6105
305	1e+12	NDD Unbiased	601.99	602.19	0.2036
306	1e+12	NDD Unbiased	601.45	600.84	-0.6105
307	5e+12	NDD Unbiased	602.67	601.38	-1.289
308	5e+12	NDD Unbiased	600.97	600.23	-0.7463
309	5e+12	NDD Unbiased	600.97	600.29	-0.6784
310	5e+12	NDD Unbiased	601.99	600.57	-1.4247
311	1e+13	NDD Unbiased	601.79	600.23	-1.5604
312	1e+13	NDD Unbiased	601.04	599.21	-1.8317
313	1e+13	NDD Unbiased	602.94	600.97	-1.9675
314	1e+13	NDD Unbiased	601.85	599.95	-1.8996
315	0	Correlation	601.04	600.57	-0.4748
316	0	Correlation	601.92	601.51	-0.407
317	0	Correlation	601.65	601.79	0.1357

Test Statistics (mV)

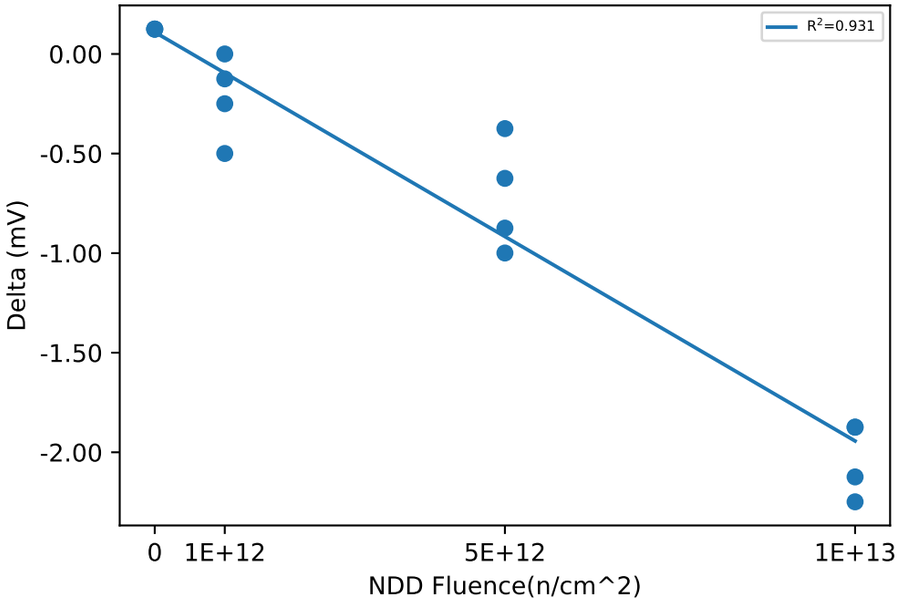
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	601.04	601.54	601.92	0.45175	600.57	601.29	601.79	0.64124	-0.4748	-0.2487	0.1357	0.33462
1e+12	601.45	602.19	603.08	0.67845	600.84	602.06	602.74	0.84374	-0.6105	-0.1356	0.475	0.55945
5e+12	600.97	601.65	602.67	0.83092	600.23	600.62	601.38	0.52953	-1.4247	-1.0346	-0.6784	0.37722
1e+13	601.04	601.91	602.94	0.7822	599.21	600.09	600.97	0.72858	-1.9675	-1.8148	-1.5604	0.17843

Device Test: 13.33; VTH_SR_UVLO_RISE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 580.0, Upper Limit = 618.0 (mV))

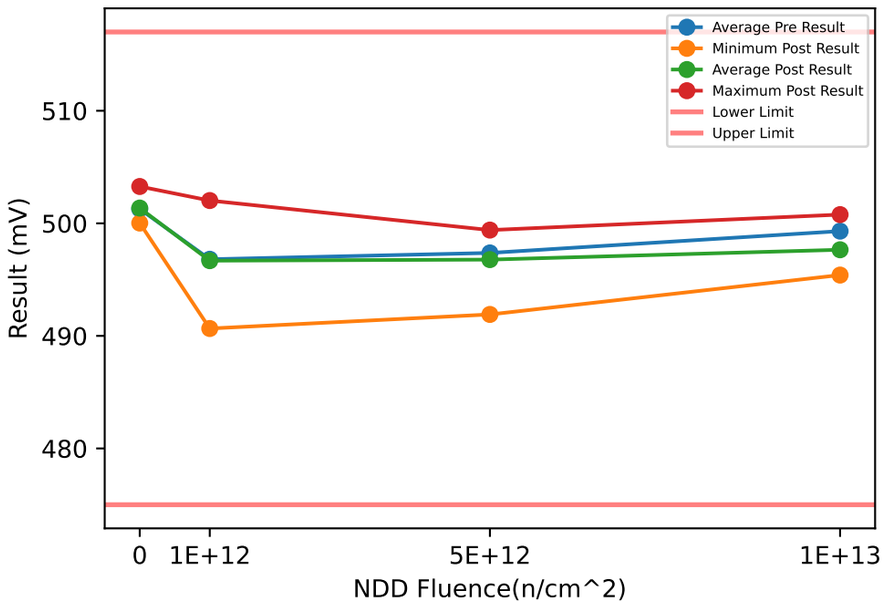
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	601.84	601.59	-0.2498
304	1e+12	NDD Unbiased	590.85	590.72	-0.125
305	1e+12	NDD Unbiased	595.34	594.84	-0.4997
306	1e+12	NDD Unbiased	598.47	598.47	0
307	5e+12	NDD Unbiased	597.47	596.59	-0.8744
308	5e+12	NDD Unbiased	599.34	598.72	-0.6246
309	5e+12	NDD Unbiased	599.22	598.84	-0.3748
310	5e+12	NDD Unbiased	592.34	591.35	-0.9994
311	1e+13	NDD Unbiased	596.97	595.09	-1.8739
312	1e+13	NDD Unbiased	598.72	596.47	-2.2487
313	1e+13	NDD Unbiased	598.97	596.84	-2.1237
314	1e+13	NDD Unbiased	602.34	600.46	-1.8739
315	0	Correlation	600.09	600.21	0.1249
316	0	Correlation	602.84	602.96	0.125
317	0	Correlation	599.72	599.84	0.125

Test Statistics (mV)

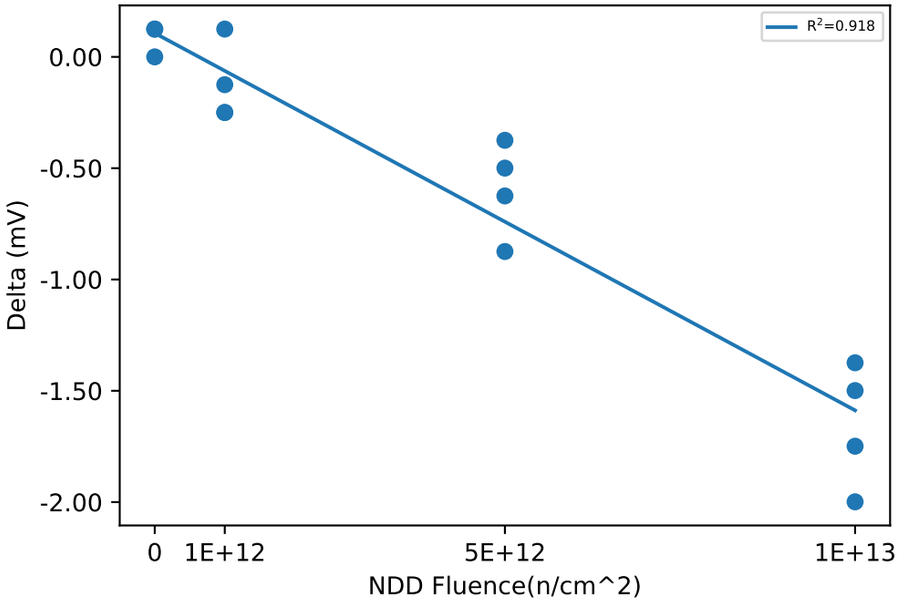
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.72	600.88	602.84	1.7053	599.84	601.01	602.96	1.7053	0.1249	0.12497	0.125	5.7735e-05
1e+12	590.85	596.62	601.84	4.6769	590.72	596.4	601.59	4.686	-0.4997	-0.21862	0	0.21334
5e+12	592.34	597.09	599.34	3.2783	591.35	596.37	598.84	3.5074	-0.9994	-0.7183	-0.3748	0.27698
1e+13	596.97	599.25	602.34	2.2449	595.09	597.22	600.46	2.2922	-2.2487	-2.0301	-1.8739	0.18739

Device Test: 13.34; VTH_SR_UVLO_FALL

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 475.0, Upper Limit = 517.0 (mV))

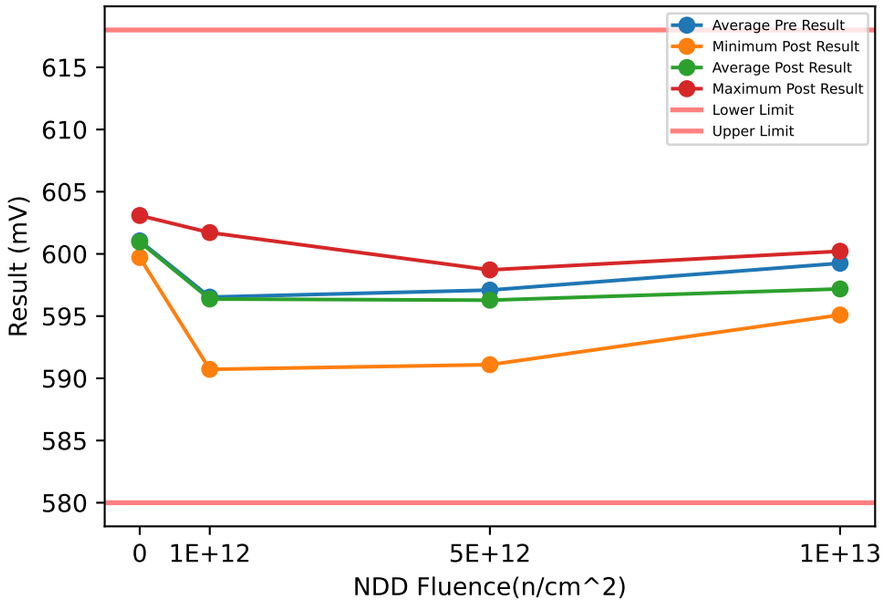
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	502.27	502.02	-0.2498
304	1e+12	NDD Unbiased	490.9	490.65	-0.2499
305	1e+12	NDD Unbiased	495.4	495.28	-0.1249
306	1e+12	NDD Unbiased	498.65	498.78	0.1249
307	5e+12	NDD Unbiased	497.28	496.65	-0.6247
308	5e+12	NDD Unbiased	499.52	499.15	-0.3747
309	5e+12	NDD Unbiased	499.9	499.4	-0.4997
310	5e+12	NDD Unbiased	492.78	491.9	-0.8744
311	1e+13	NDD Unbiased	497.15	495.4	-1.749
312	1e+13	NDD Unbiased	499.15	497.15	-1.9988
313	1e+13	NDD Unbiased	498.78	497.28	-1.4991
314	1e+13	NDD Unbiased	502.15	500.77	-1.3742
315	0	Correlation	500.65	500.77	0.1249
316	0	Correlation	503.27	503.27	0
317	0	Correlation	499.9	500.02	0.1249

Test Statistics (mV)

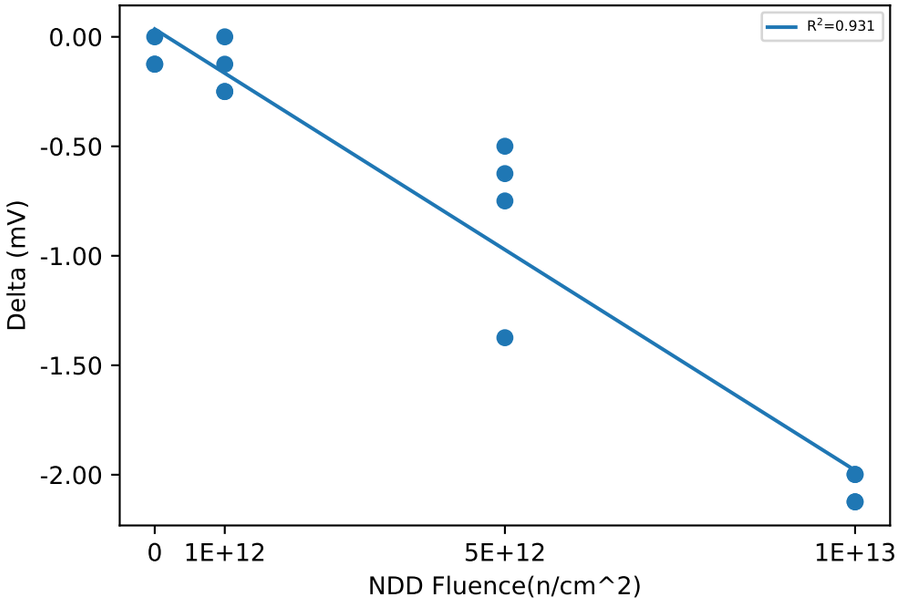
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.9	501.27	503.27	1.7711	500.02	501.36	503.27	1.7007	0	0.083267	0.1249	0.072111
1e+12	490.9	496.81	502.27	4.8334	490.65	496.68	502.02	4.872	-0.2499	-0.12493	0.1249	0.17666
5e+12	492.78	497.37	499.9	3.2726	491.9	496.78	499.4	3.477	-0.8744	-0.59337	-0.3747	0.21335
1e+13	497.15	499.31	502.15	2.0839	495.4	497.65	500.77	2.251	-1.9988	-1.6553	-1.3742	0.277

Device Test: 13.36; VTH_SR_UVLO_RISE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 580.0, Upper Limit = 618.0 (mV))

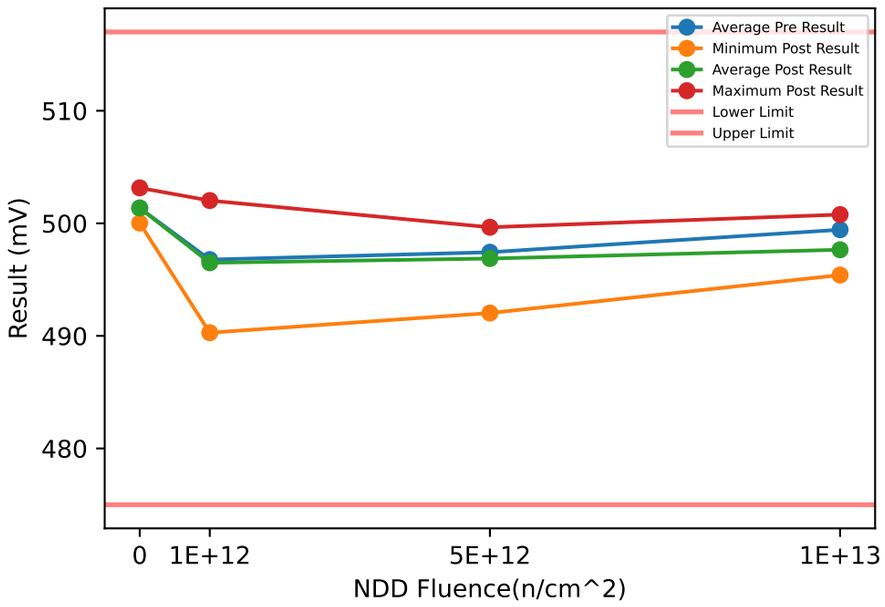
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	601.71	601.71	0
304	1e+12	NDD Unbiased	590.85	590.72	-0.125
305	1e+12	NDD Unbiased	595.09	594.84	-0.2499
306	1e+12	NDD Unbiased	598.47	598.22	-0.2499
307	5e+12	NDD Unbiased	597.34	596.72	-0.6247
308	5e+12	NDD Unbiased	599.34	598.59	-0.7495
309	5e+12	NDD Unbiased	599.22	598.72	-0.4997
310	5e+12	NDD Unbiased	592.47	591.1	-1.3742
311	1e+13	NDD Unbiased	597.09	595.09	-1.9988
312	1e+13	NDD Unbiased	598.72	596.59	-2.1237
313	1e+13	NDD Unbiased	598.97	596.84	-2.1237
314	1e+13	NDD Unbiased	602.21	600.21	-1.9988
315	0	Correlation	600.21	600.09	-0.1249
316	0	Correlation	603.09	603.09	0
317	0	Correlation	599.84	599.72	-0.125

Test Statistics (mV)

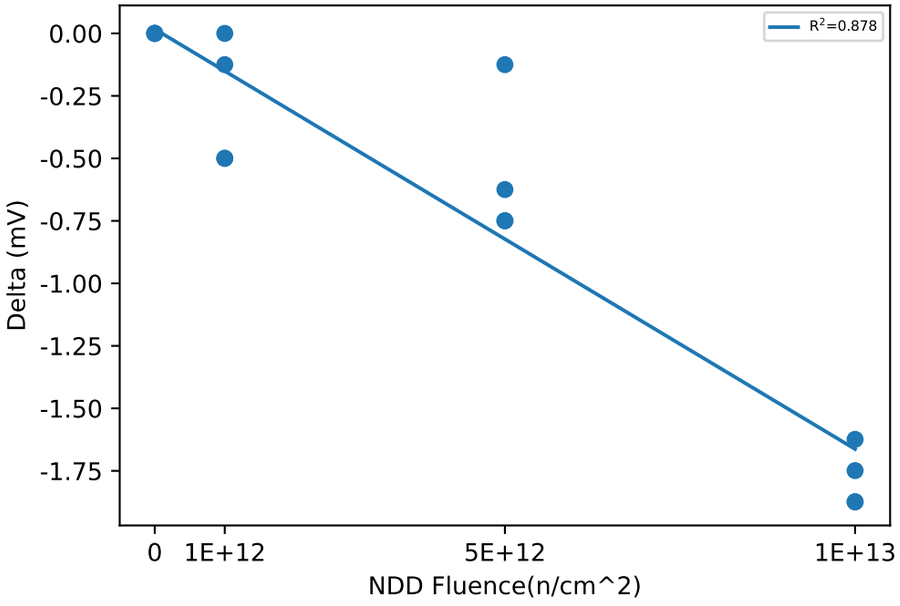
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.84	601.05	603.09	1.777	599.72	600.96	603.09	1.8487	-0.125	-0.0833	0	0.07214
1e+12	590.85	596.53	601.71	4.6548	590.72	596.37	601.71	4.698	-0.2499	-0.1562	0	0.11963
5e+12	592.47	597.09	599.34	3.2143	591.1	596.28	598.72	3.5752	-1.3742	-0.81203	-0.4997	0.38841
1e+13	597.09	599.25	602.21	2.1453	595.09	597.19	600.21	2.1623	-2.1237	-2.0613	-1.9988	0.072111

Device Test: 13.37; VTH_SR_UVLO_FALL

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 475.0, Upper Limit = 517.0 (mV))

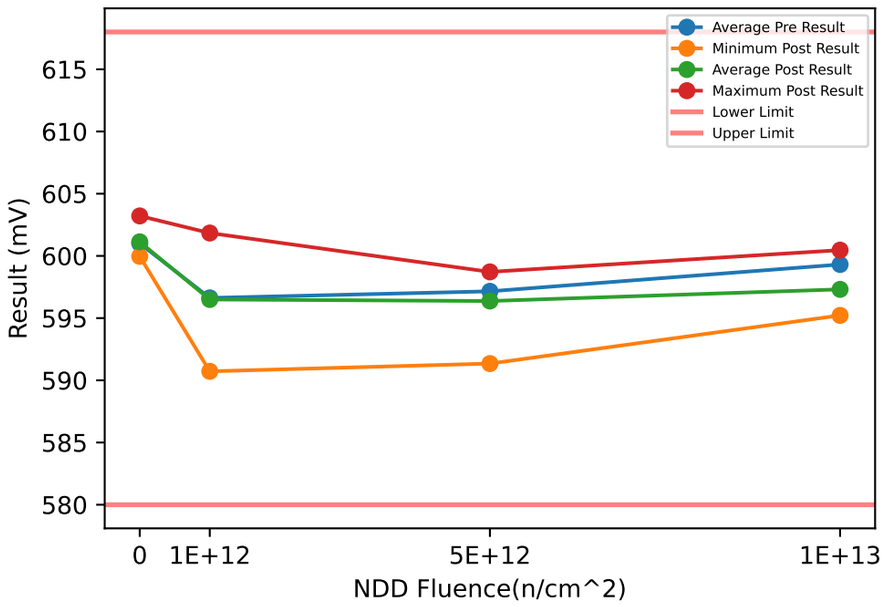
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	502.15	502.02	-0.1249
304	1e+12	NDD Unbiased	490.78	490.28	-0.4998
305	1e+12	NDD Unbiased	495.4	494.9	-0.4997
306	1e+12	NDD Unbiased	498.78	498.78	0
307	5e+12	NDD Unbiased	497.4	496.65	-0.7496
308	5e+12	NDD Unbiased	499.77	499.15	-0.6246
309	5e+12	NDD Unbiased	499.77	499.65	-0.125
310	5e+12	NDD Unbiased	492.78	492.03	-0.7495
311	1e+13	NDD Unbiased	497.15	495.4	-1.749
312	1e+13	NDD Unbiased	499.15	497.28	-1.8739
313	1e+13	NDD Unbiased	499.03	497.15	-1.8739
314	1e+13	NDD Unbiased	502.4	500.77	-1.624
315	0	Correlation	500.9	500.9	0
316	0	Correlation	503.15	503.15	0
317	0	Correlation	500.02	500.02	0

Test Statistics (mV)

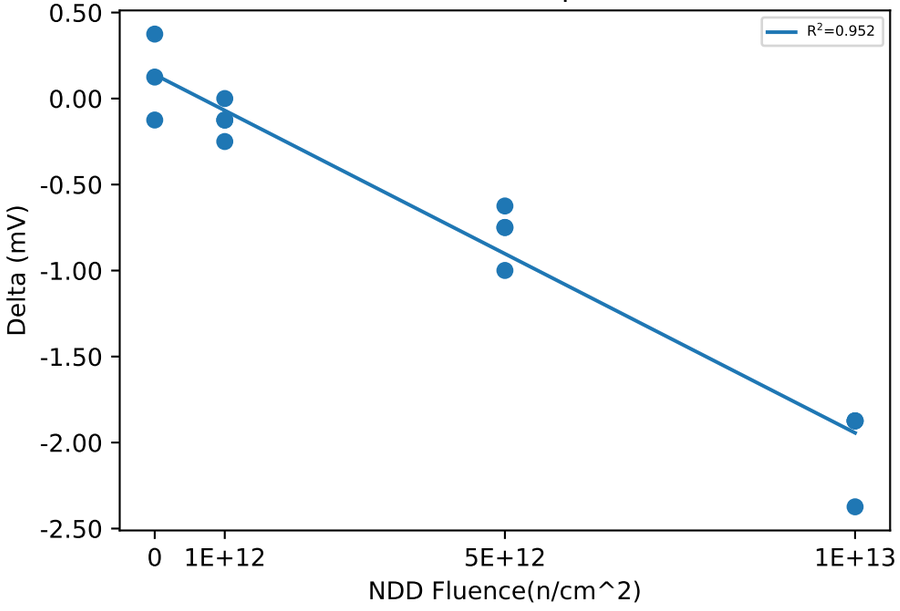
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.02	501.36	503.15	1.6112	500.02	501.36	503.15	1.6112	0	0	0	0
1e+12	490.78	496.78	502.15	4.8544	490.28	496.5	502.02	5.0636	-0.4998	-0.2811	0	0.25757
5e+12	492.78	497.43	499.77	3.298	492.03	496.87	499.65	3.4836	-0.7496	-0.56218	-0.125	0.29734
1e+13	497.15	499.43	502.4	2.179	495.4	497.65	500.77	2.251	-1.8739	-1.7802	-1.624	0.11963

Device Test: 13.39; VTH_SR_UVLO_RISE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 580.0, Upper Limit = 618.0 (mV))

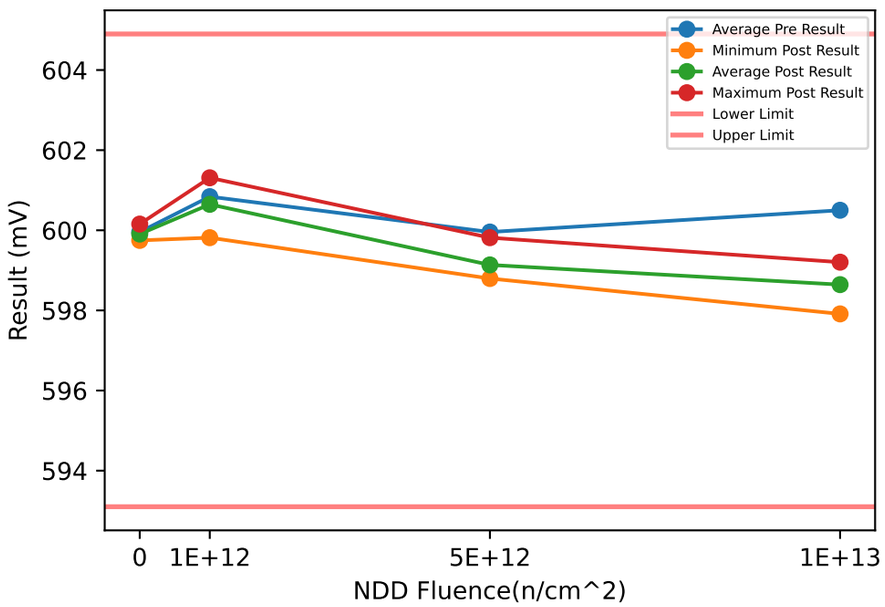
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	601.96	601.84	-0.125
304	1e+12	NDD Unbiased	590.85	590.72	-0.125
305	1e+12	NDD Unbiased	595.22	594.97	-0.2499
306	1e+12	NDD Unbiased	598.47	598.47	0
307	5e+12	NDD Unbiased	597.59	596.84	-0.7496
308	5e+12	NDD Unbiased	599.34	598.59	-0.7495
309	5e+12	NDD Unbiased	599.34	598.72	-0.6246
310	5e+12	NDD Unbiased	592.34	591.35	-0.9994
311	1e+13	NDD Unbiased	597.09	595.22	-1.8739
312	1e+13	NDD Unbiased	598.84	596.47	-2.3736
313	1e+13	NDD Unbiased	598.97	597.09	-1.8738
314	1e+13	NDD Unbiased	602.34	600.46	-1.8739
315	0	Correlation	600.34	600.21	-0.1249
316	0	Correlation	603.09	603.21	0.1249
317	0	Correlation	599.59	599.97	0.3748

Test Statistics (mV)

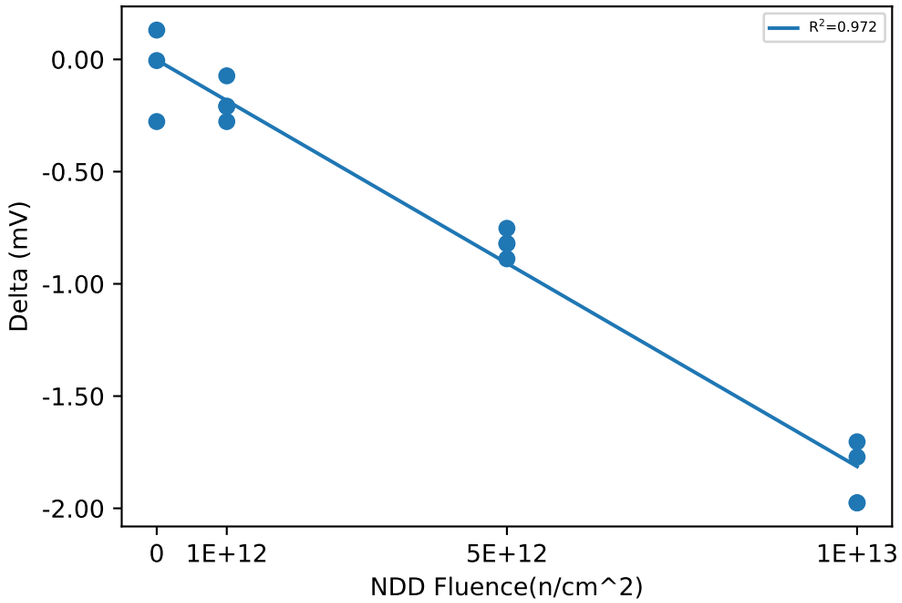
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.59	601.01	603.09	1.8417	599.97	601.13	603.21	1.8075	-0.1249	0.12493	0.3748	0.24985
1e+12	590.85	596.62	601.96	4.7355	590.72	596.5	601.84	4.7651	-0.2499	-0.12498	0	0.10202
5e+12	592.34	597.15	599.34	3.3107	591.35	596.37	598.72	3.4596	-0.9994	-0.78078	-0.6246	0.1572
1e+13	597.09	599.31	602.34	2.1933	595.22	597.31	600.46	2.2426	-2.3736	-1.9988	-1.8738	0.24987

Device Test: 13.4; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

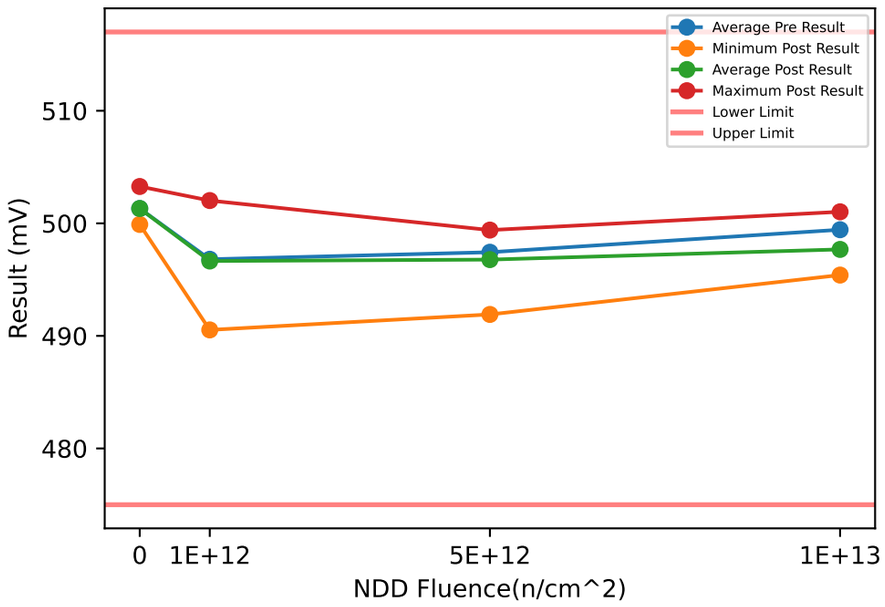
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	601.11	600.9	-0.2091
304	1e+12	NDD Unbiased	601.59	601.31	-0.277
305	1e+12	NDD Unbiased	600.64	600.56	-0.0732
306	1e+12	NDD Unbiased	600.02	599.82	-0.2091
307	5e+12	NDD Unbiased	600.64	599.82	-0.8205
308	5e+12	NDD Unbiased	599.89	599	-0.8884
309	5e+12	NDD Unbiased	599.55	598.8	-0.7526
310	5e+12	NDD Unbiased	599.75	598.93	-0.8205
311	1e+13	NDD Unbiased	600.3	598.32	-1.9754
312	1e+13	NDD Unbiased	599.62	597.91	-1.7037
313	1e+13	NDD Unbiased	600.91	599.14	-1.7716
314	1e+13	NDD Unbiased	601.18	599.2	-1.9755
315	0	Correlation	599.75	599.75	-0.0053
316	0	Correlation	599.68	599.82	0.1306
317	0	Correlation	600.43	600.16	-0.277

Test Statistics (mV)

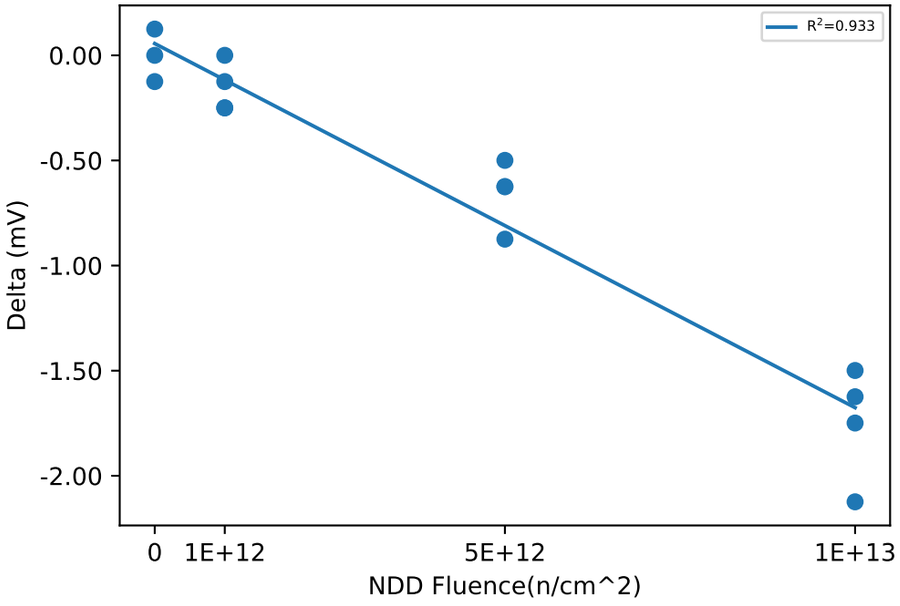
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.68	599.96	600.43	0.41325	599.75	599.91	600.16	0.21842	-0.277	-0.050567	0.1306	0.20754
1e+12	600.02	600.84	601.59	0.66794	599.82	600.65	601.31	0.63337	-0.277	-0.1921	-0.0732	0.085485
5e+12	599.55	599.96	600.64	0.47394	598.8	599.14	599.82	0.46078	-0.8884	-0.8205	-0.7526	0.05544
1e+13	599.62	600.5	601.18	0.69505	597.91	598.64	599.2	0.63093	-1.9755	-1.8566	-1.7037	0.14006

Device Test: 13.40; VTH_SR_UVLO_FALL

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 475.0, Upper Limit = 517.0 (mV))

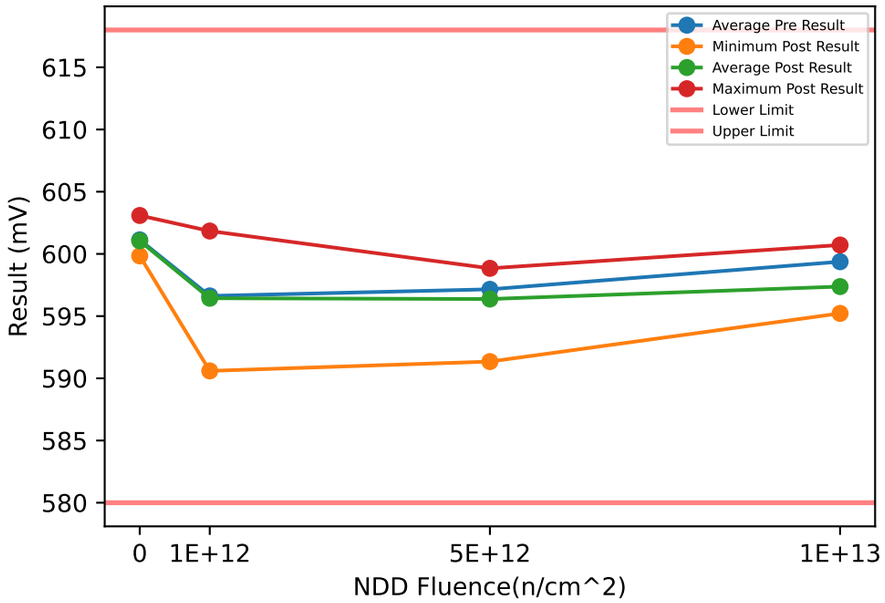
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	502.15	502.02	-0.1249
304	1e+12	NDD Unbiased	490.78	490.53	-0.2499
305	1e+12	NDD Unbiased	495.53	495.28	-0.2498
306	1e+12	NDD Unbiased	498.78	498.78	0
307	5e+12	NDD Unbiased	497.28	496.65	-0.6247
308	5e+12	NDD Unbiased	499.65	499.15	-0.4996
309	5e+12	NDD Unbiased	500.02	499.4	-0.6246
310	5e+12	NDD Unbiased	492.78	491.9	-0.8744
311	1e+13	NDD Unbiased	497.15	495.4	-1.749
312	1e+13	NDD Unbiased	499.15	497.03	-2.1238
313	1e+13	NDD Unbiased	498.9	497.28	-1.624
314	1e+13	NDD Unbiased	502.52	501.02	-1.4991
315	0	Correlation	500.65	500.77	0.1249
316	0	Correlation	503.27	503.27	0
317	0	Correlation	500.02	499.9	-0.1249

Test Statistics (mV)

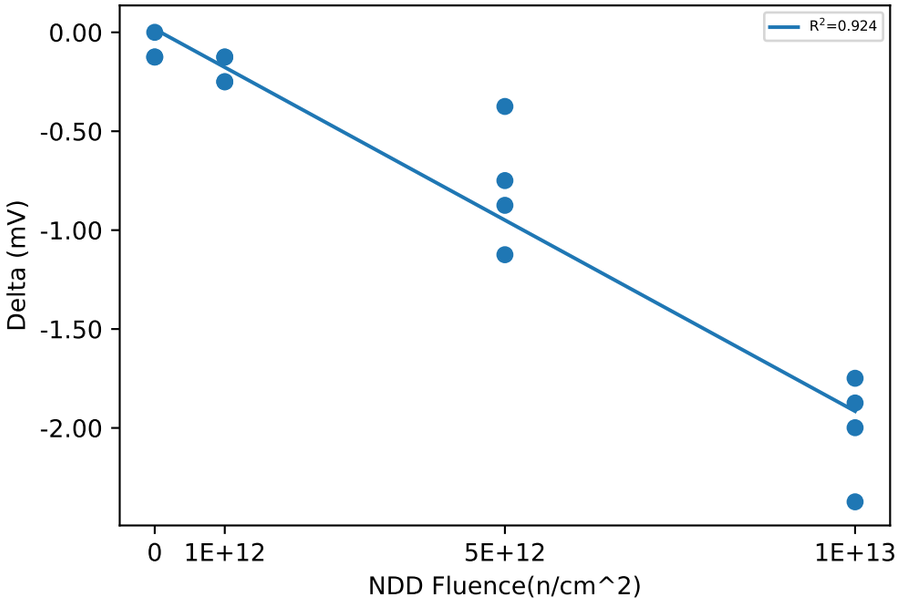
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.02	501.32	503.27	1.7235	499.9	501.32	503.27	1.7504	-0.1249	0	0.1249	0.1249
1e+12	490.78	496.81	502.15	4.843	490.53	496.65	502.02	4.9236	-0.2499	-0.15615	0	0.11961
5e+12	492.78	497.43	500.02	3.3325	491.9	496.78	499.4	3.477	-0.8744	-0.65583	-0.4996	0.15719
1e+13	497.15	499.43	502.52	2.2449	495.4	497.68	501.02	2.3777	-2.1238	-1.749	-1.4991	0.26991

Device Test: 13.42; VTH_SR_UVLO_RISE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 580.0, Upper Limit = 618.0 (mV))

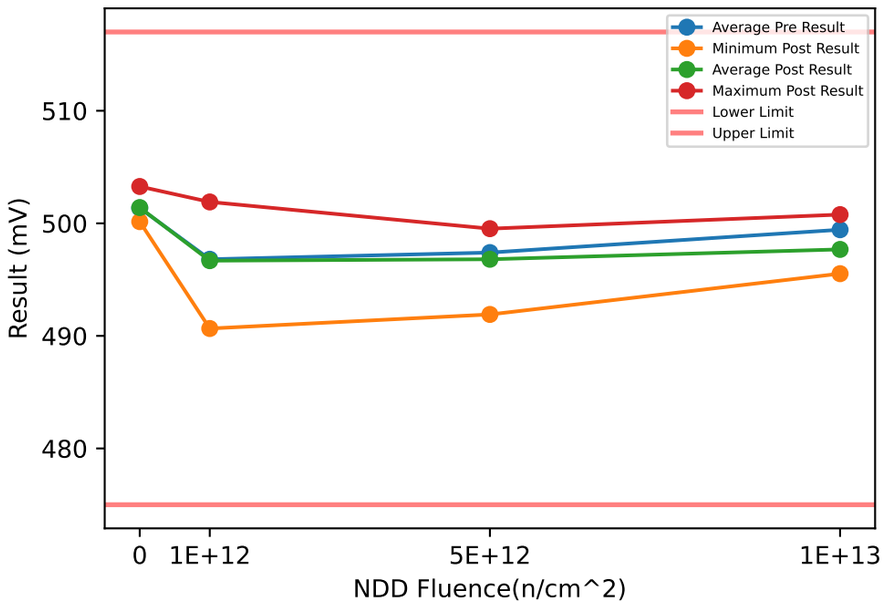
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	602.09	601.84	-0.2499
304	1e+12	NDD Unbiased	590.85	590.6	-0.2498
305	1e+12	NDD Unbiased	595.09	594.97	-0.125
306	1e+12	NDD Unbiased	598.47	598.34	-0.125
307	5e+12	NDD Unbiased	597.59	596.72	-0.8746
308	5e+12	NDD Unbiased	599.34	598.59	-0.7495
309	5e+12	NDD Unbiased	599.22	598.84	-0.3748
310	5e+12	NDD Unbiased	592.47	591.35	-1.1243
311	1e+13	NDD Unbiased	597.22	595.22	-1.9988
312	1e+13	NDD Unbiased	598.97	596.59	-2.3735
313	1e+13	NDD Unbiased	598.84	596.97	-1.8738
314	1e+13	NDD Unbiased	602.46	600.71	-1.7489
315	0	Correlation	600.21	600.21	0
316	0	Correlation	603.21	603.09	-0.1249
317	0	Correlation	599.97	599.84	-0.1248

Test Statistics (mV)

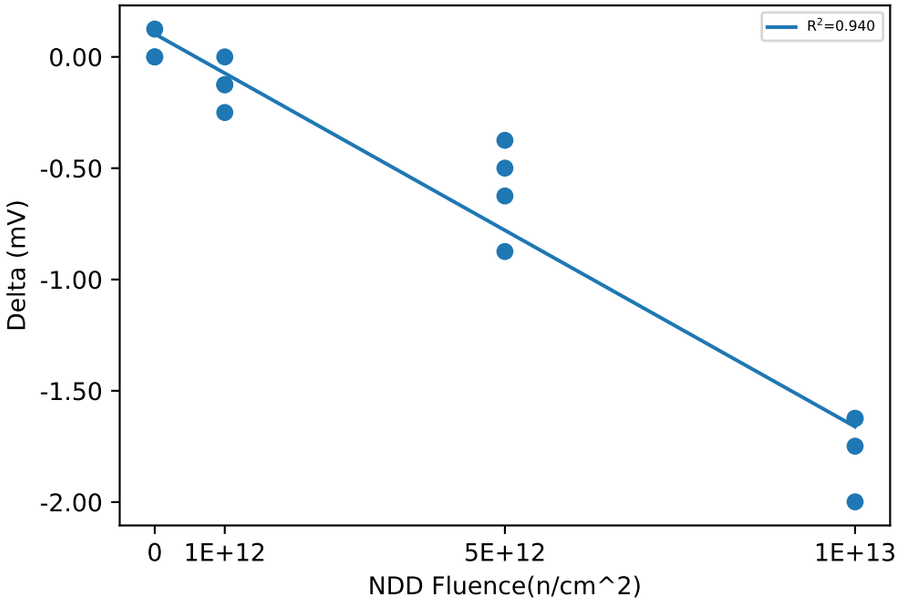
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.97	601.13	603.21	1.8075	599.84	601.05	603.09	1.777	-0.1249	-0.083233	0	0.072082
1e+12	590.85	596.62	602.09	4.7956	590.6	596.44	601.84	4.7988	-0.2499	-0.18743	-0.125	0.072082
5e+12	592.47	597.15	599.34	3.2231	591.35	596.37	598.84	3.4836	-1.1243	-0.7808	-0.3748	0.31231
1e+13	597.22	599.37	602.46	2.2098	595.22	597.37	600.71	2.3513	-2.3735	-1.9987	-1.7489	0.26986

Device Test: 13.43; VTH_SR_UVLO_FALL

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 475.0, Upper Limit = 517.0 (mV))

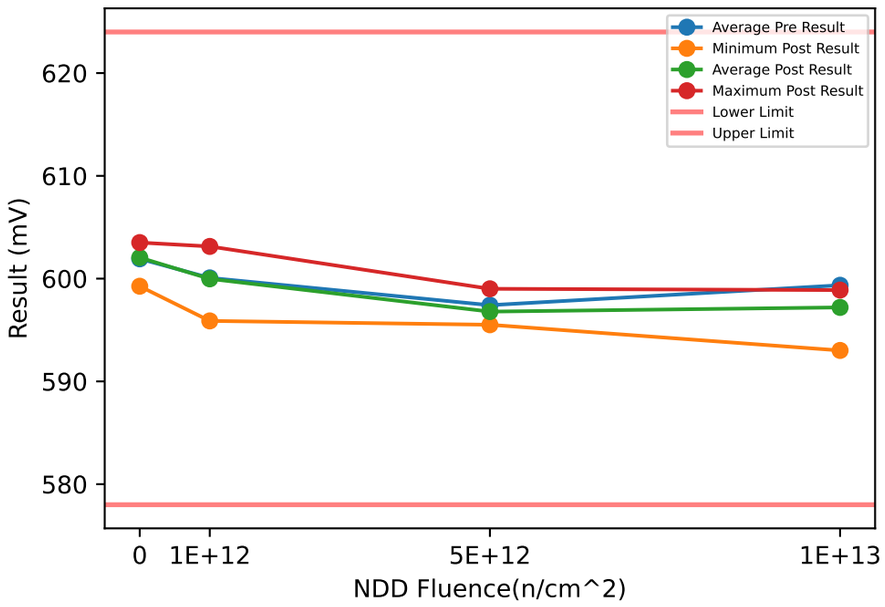
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	502.15	501.9	-0.2499
304	1e+12	NDD Unbiased	490.78	490.65	-0.125
305	1e+12	NDD Unbiased	495.4	495.28	-0.1249
306	1e+12	NDD Unbiased	498.9	498.9	0
307	5e+12	NDD Unbiased	497.15	496.53	-0.6247
308	5e+12	NDD Unbiased	499.65	499.27	-0.3747
309	5e+12	NDD Unbiased	500.02	499.52	-0.4997
310	5e+12	NDD Unbiased	492.78	491.9	-0.8744
311	1e+13	NDD Unbiased	497.15	495.53	-1.6241
312	1e+13	NDD Unbiased	499.15	497.15	-1.9988
313	1e+13	NDD Unbiased	498.9	497.28	-1.624
314	1e+13	NDD Unbiased	502.52	500.77	-1.7489
315	0	Correlation	500.77	500.77	0
316	0	Correlation	503.27	503.27	0
317	0	Correlation	500.02	500.15	0.125

Test Statistics (mV)

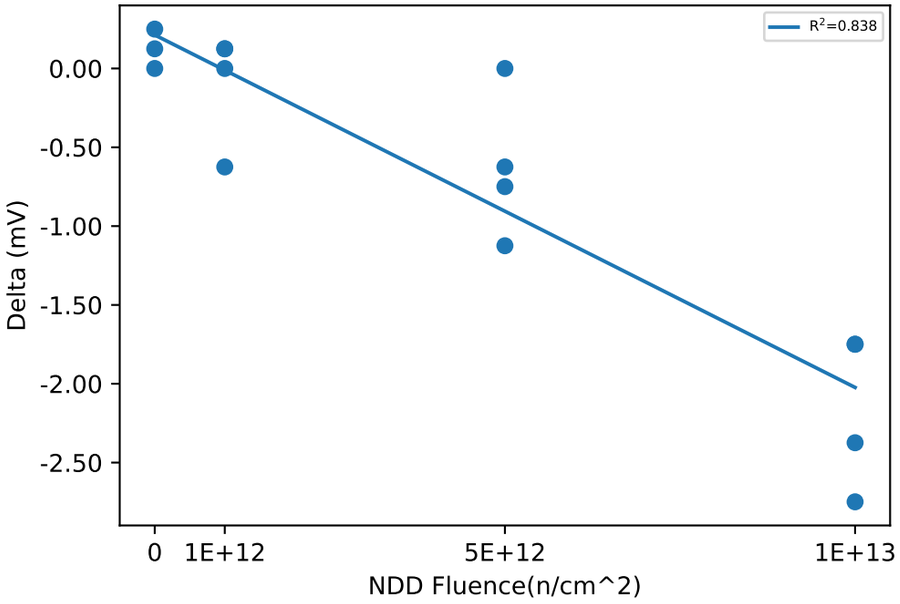
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.02	501.36	503.27	1.7007	500.15	501.4	503.27	1.6526	0	0.041667	0.125	0.072169
1e+12	490.78	496.81	502.15	4.8719	490.65	496.68	501.9	4.8452	-0.2499	-0.12495	0	0.10202
5e+12	492.78	497.4	500.02	3.335	491.9	496.81	499.52	3.5398	-0.8744	-0.59338	-0.3747	0.21335
1e+13	497.15	499.43	502.52	2.2449	495.53	497.68	500.77	2.2099	-1.9988	-1.7489	-1.624	0.17666

Device Test: 13.45; VTH_WDI_RISE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 578.0, Upper Limit = 624.0 (mV))

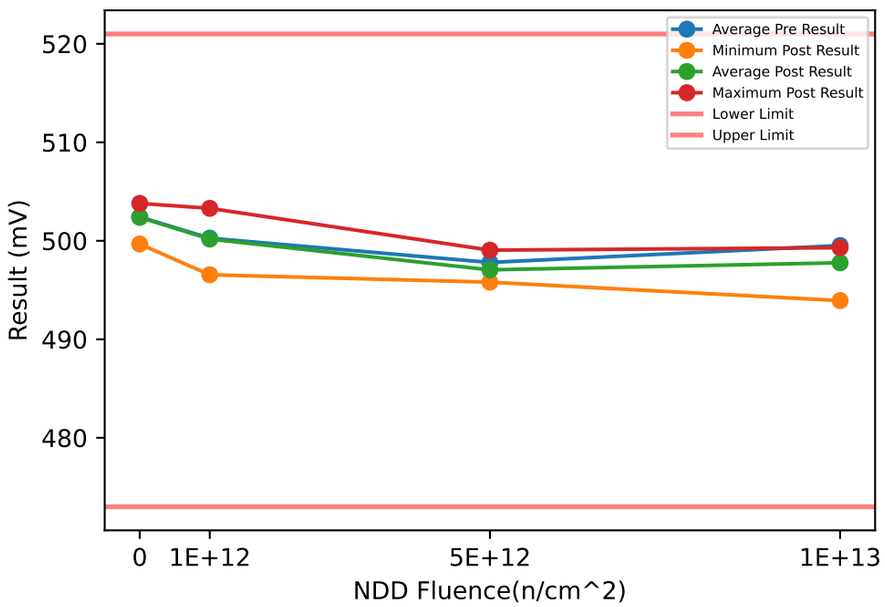
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	599.38	599.38	0
304	1e+12	NDD Unbiased	601.38	601.51	0.125
305	1e+12	NDD Unbiased	596.51	595.89	-0.6248
306	1e+12	NDD Unbiased	603.01	603.13	0.1249
307	5e+12	NDD Unbiased	596.89	596.89	0
308	5e+12	NDD Unbiased	599.63	599.01	-0.6247
309	5e+12	NDD Unbiased	596.26	595.51	-0.7496
310	5e+12	NDD Unbiased	596.89	595.76	-1.1245
311	1e+13	NDD Unbiased	600.63	598.88	-1.7493
312	1e+13	NDD Unbiased	594.76	593.01	-1.7493
313	1e+13	NDD Unbiased	601.26	598.51	-2.7489
314	1e+13	NDD Unbiased	600.76	598.38	-2.3741
315	0	Correlation	599.01	599.26	0.2499
316	0	Correlation	603.38	603.38	0
317	0	Correlation	603.38	603.51	0.1249

Test Statistics (mV)

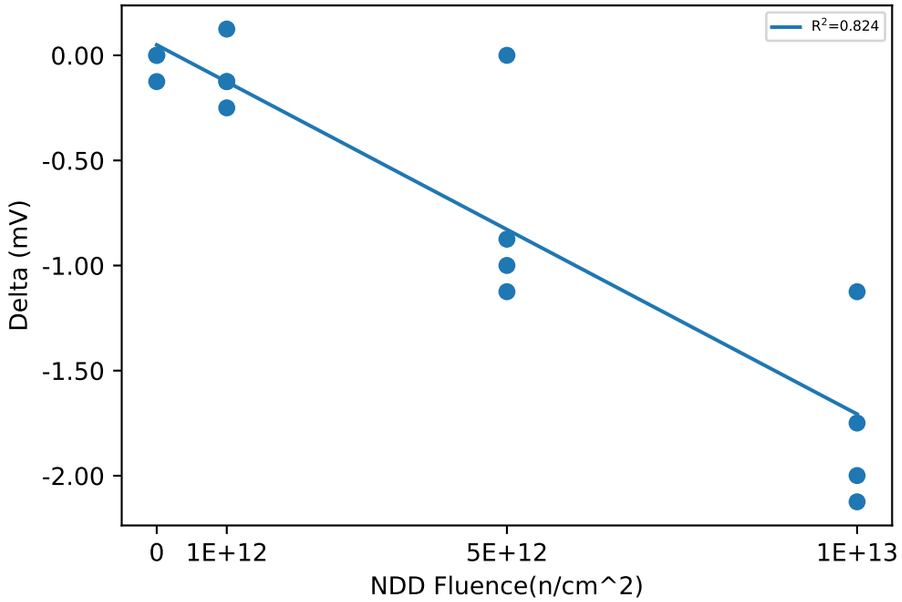
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	599.01	601.93	603.38	2.5249	599.26	602.05	603.51	2.4175	0	0.12493	0.2499	0.12495
1e+12	596.51	600.07	603.01	2.7986	595.89	599.98	603.13	3.1302	-0.6248	-0.093725	0.125	0.35892
5e+12	596.26	597.42	599.63	1.5076	595.51	596.79	599.01	1.5948	-1.1245	-0.6247	0	0.46749
1e+13	594.76	599.35	601.26	3.0731	593.01	597.2	598.88	2.7986	-2.7489	-2.1554	-1.7493	0.49326

Device Test: 13.46; VTH_WDI_FALL

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 473.0, Upper Limit = 521.0 (mV))

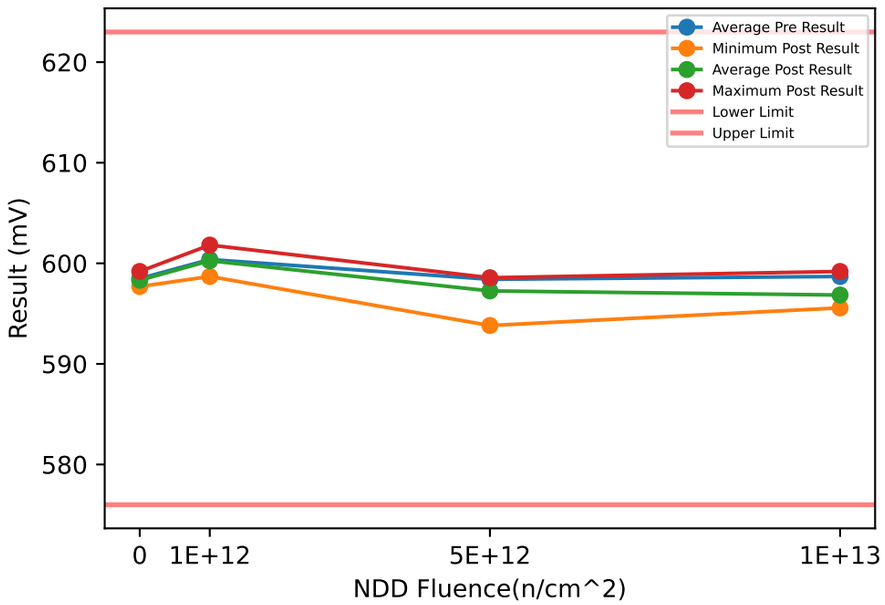
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	499.55	499.67	0.1249
304	1e+12	NDD Unbiased	501.3	501.17	-0.1249
305	1e+12	NDD Unbiased	496.8	496.55	-0.2499
306	1e+12	NDD Unbiased	503.42	503.3	-0.125
307	5e+12	NDD Unbiased	497.05	497.05	0
308	5e+12	NDD Unbiased	500.17	499.05	-1.1245
309	5e+12	NDD Unbiased	496.8	495.8	-0.9996
310	5e+12	NDD Unbiased	497.18	496.3	-0.8747
311	1e+13	NDD Unbiased	500.8	499.05	-1.7493
312	1e+13	NDD Unbiased	495.05	493.93	-1.1246
313	1e+13	NDD Unbiased	501.3	499.3	-1.9992
314	1e+13	NDD Unbiased	500.92	498.8	-2.1241
315	0	Correlation	499.67	499.67	0
316	0	Correlation	503.8	503.67	-0.125
317	0	Correlation	503.8	503.8	0

Test Statistics (mV)

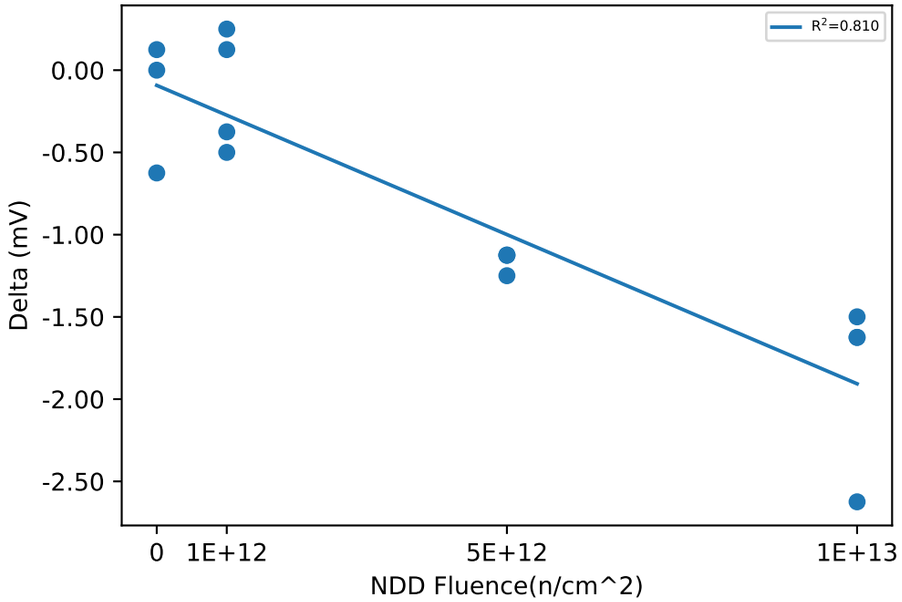
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.67	502.42	503.8	2.3806	499.67	502.38	503.8	2.3454	-0.125	-0.041667	0	0.072169
1e+12	496.8	500.27	503.42	2.8021	496.55	500.17	503.3	2.8365	-0.2499	-0.093725	0.1249	0.1572
5e+12	496.8	497.8	500.17	1.5903	495.8	497.05	499.05	1.4283	-1.1245	-0.7497	0	0.5101
1e+13	495.05	499.52	501.3	2.9855	493.93	497.77	499.3	2.5696	-2.1241	-1.7493	-1.1246	0.44466

Device Test: 13.48; VTH_MODE_RISE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 576.0, Upper Limit = 623.0 (mV))

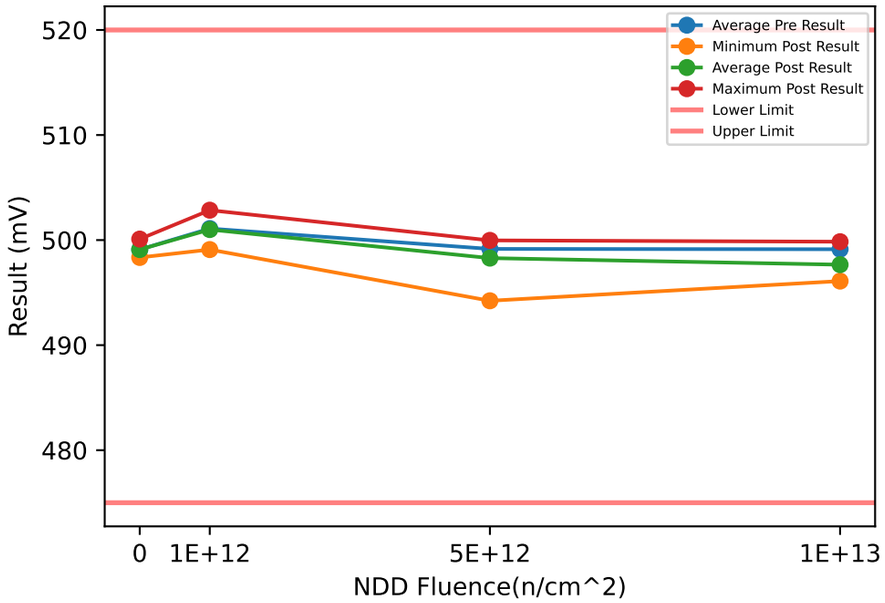
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	598.44	598.69	0.2499
304	1e+12	NDD Unbiased	600.69	600.82	0.125
305	1e+12	NDD Unbiased	602.32	601.82	-0.4998
306	1e+12	NDD Unbiased	600.07	599.69	-0.3749
307	5e+12	NDD Unbiased	594.94	593.82	-1.1247
308	5e+12	NDD Unbiased	599.69	598.57	-1.1246
309	5e+12	NDD Unbiased	599.32	598.07	-1.2496
310	5e+12	NDD Unbiased	599.69	598.57	-1.1246
311	1e+13	NDD Unbiased	598.19	595.57	-2.6243
312	1e+13	NDD Unbiased	597.69	596.07	-1.6245
313	1e+13	NDD Unbiased	600.69	599.19	-1.4996
314	1e+13	NDD Unbiased	598.19	596.57	-1.6246
315	0	Correlation	599.07	599.19	0.1249
316	0	Correlation	598.69	598.07	-0.6248
317	0	Correlation	597.69	597.69	0

Test Statistics (mV)

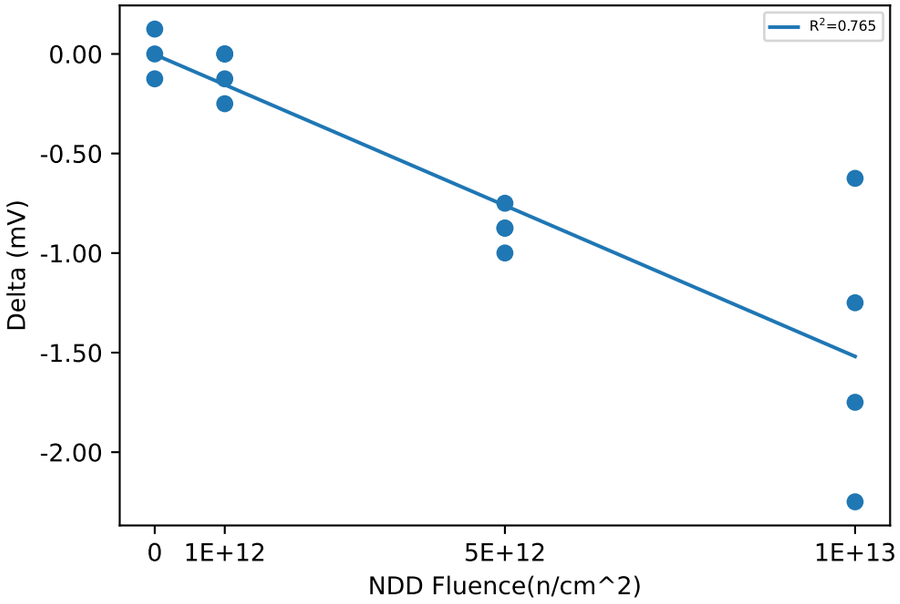
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	597.69	598.48	599.07	0.71057	597.69	598.32	599.19	0.78036	-0.6248	-0.16663	0.1249	0.40167
1e+12	598.44	600.38	602.32	1.6019	598.69	600.25	601.82	1.3555	-0.4998	-0.12495	0.2499	0.36787
5e+12	594.94	598.41	599.69	2.3186	593.82	597.25	598.57	2.3031	-1.2496	-1.1559	-1.1246	0.062483
1e+13	597.69	598.69	600.69	1.3536	595.57	596.85	599.19	1.6145	-2.6243	-1.8433	-1.4996	0.52402

Device Test: 13.49; VTH_MODE_FALL

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 475.0, Upper Limit = 520.0 (mV))

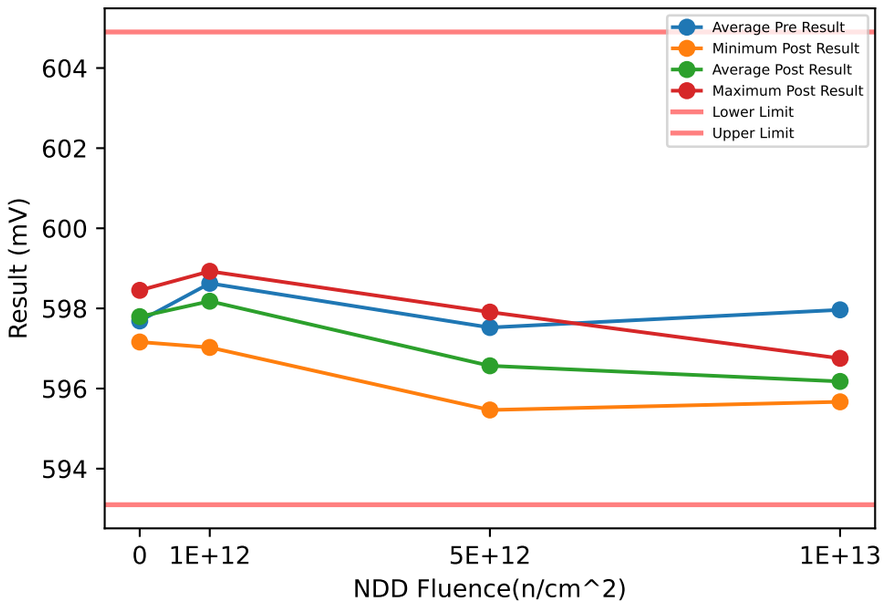
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	499.1	499.1	0
304	1e+12	NDD Unbiased	501.22	501.22	0
305	1e+12	NDD Unbiased	502.97	502.85	-0.125
306	1e+12	NDD Unbiased	501.1	500.85	-0.2499
307	5e+12	NDD Unbiased	495.22	494.22	-0.9997
308	5e+12	NDD Unbiased	500.35	499.47	-0.8747
309	5e+12	NDD Unbiased	500.35	499.47	-0.8747
310	5e+12	NDD Unbiased	500.72	499.97	-0.7498
311	1e+13	NDD Unbiased	498.35	496.1	-2.2493
312	1e+13	NDD Unbiased	498.72	496.97	-1.7495
313	1e+13	NDD Unbiased	501.1	499.85	-1.2496
314	1e+13	NDD Unbiased	498.35	497.72	-0.6248
315	0	Correlation	500.1	500.1	0
316	0	Correlation	498.97	498.85	-0.1249
317	0	Correlation	498.22	498.35	0.1249

Test Statistics (mV)

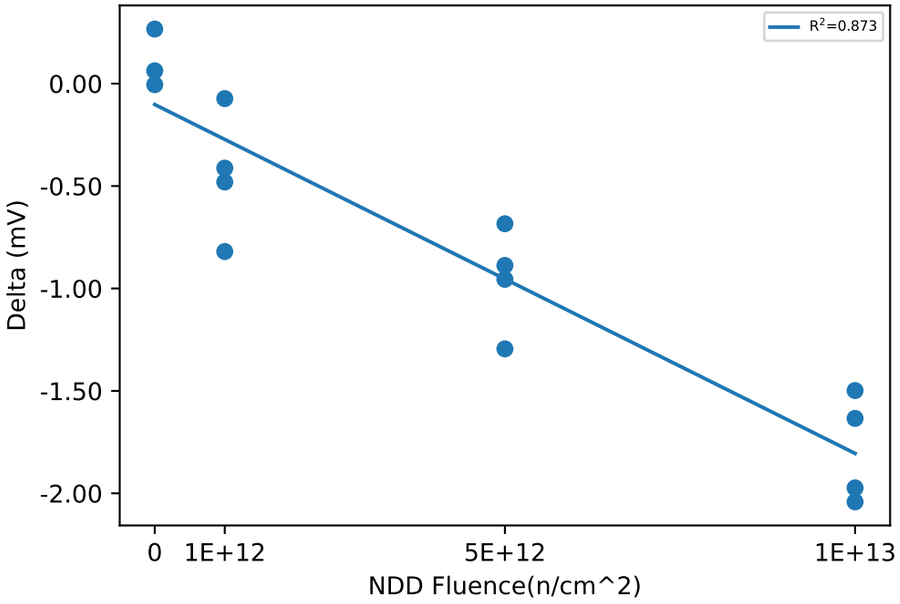
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	498.22	499.1	500.1	0.94343	498.35	499.1	500.1	0.90112	-0.1249	0	0.1249	0.1249
1e+12	499.1	501.1	502.97	1.584	499.1	501	502.85	1.5385	-0.2499	-0.093725	0	0.11963
5e+12	495.22	499.16	500.72	2.6302	494.22	498.28	499.97	2.7178	-0.9997	-0.87472	-0.7498	0.10202
1e+13	498.35	499.13	501.1	1.324	496.1	497.66	499.85	1.6019	-2.2493	-1.4683	-0.6248	0.69483

Device Test: 13.5; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

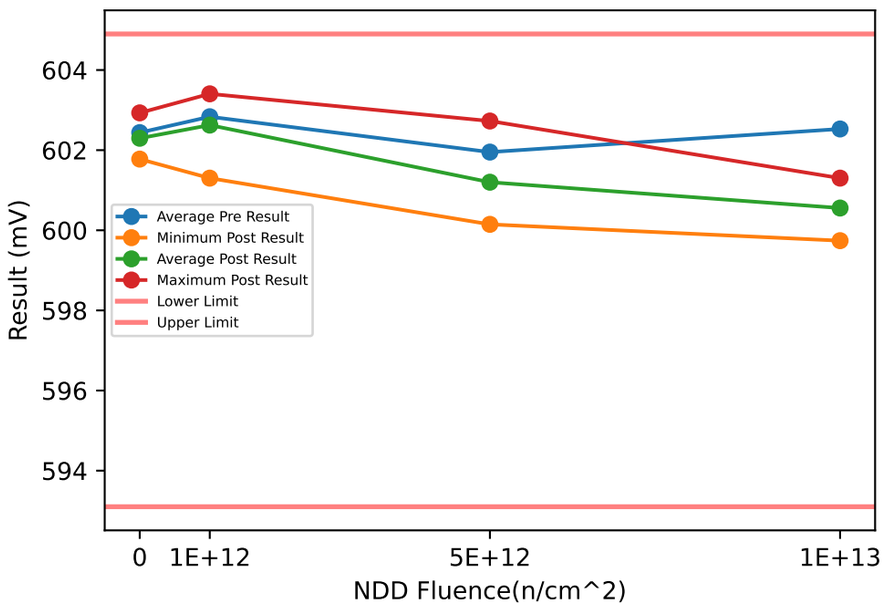
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	598.46	598.38	-0.0731
304	1e+12	NDD Unbiased	599.75	598.93	-0.8197
305	1e+12	NDD Unbiased	598.8	598.38	-0.4125
306	1e+12	NDD Unbiased	597.51	597.03	-0.4803
307	5e+12	NDD Unbiased	599.2	597.91	-1.2948
308	5e+12	NDD Unbiased	597.71	596.82	-0.8875
309	5e+12	NDD Unbiased	596.76	596.08	-0.684
310	5e+12	NDD Unbiased	596.42	595.46	-0.9554
311	1e+13	NDD Unbiased	597.71	596.08	-1.6342
312	1e+13	NDD Unbiased	597.17	595.67	-1.4984
313	1e+13	NDD Unbiased	598.73	596.75	-1.9736
314	1e+13	NDD Unbiased	598.25	596.21	-2.0415
315	0	Correlation	597.17	597.16	-0.0052
316	0	Correlation	597.71	597.77	0.0627
317	0	Correlation	598.18	598.45	0.2663

Test Statistics (mV)

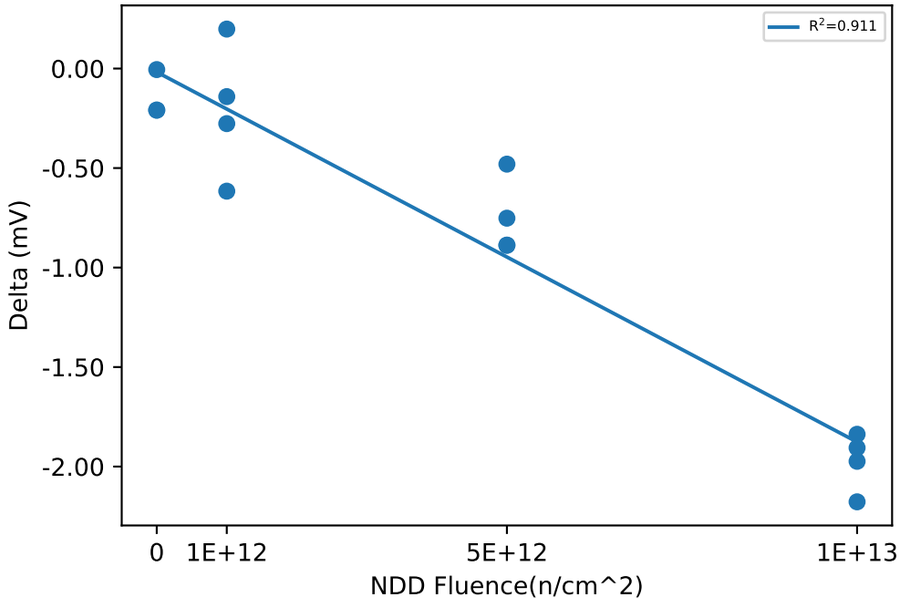
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	597.17	597.69	598.18	0.50948	597.16	597.79	598.45	0.64515	-0.0052	0.10793	0.2663	0.14129
1e+12	597.51	598.63	599.75	0.92487	597.03	598.18	598.93	0.81072	-0.8197	-0.4464	-0.0731	0.30605
5e+12	596.42	597.52	599.2	1.2459	595.46	596.57	597.91	1.0521	-1.2948	-0.95543	-0.684	0.25394
1e+13	597.17	597.96	598.73	0.67511	595.67	596.18	596.75	0.44853	-2.0415	-1.7869	-1.4984	0.26219

Device Test: 13.6; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

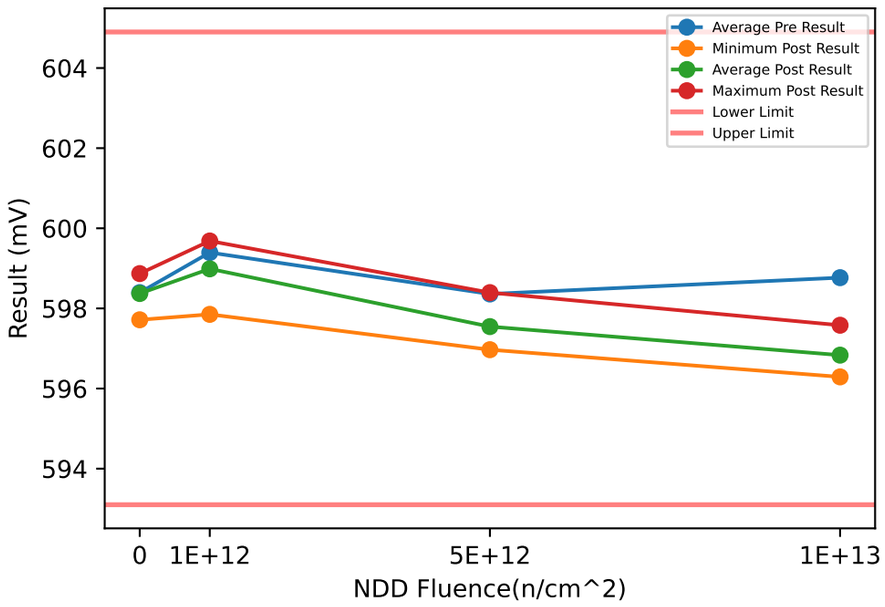
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	602.8	603	0.1984
304	1e+12	NDD Unbiased	603.68	603.41	-0.2767
305	1e+12	NDD Unbiased	602.94	602.79	-0.141
306	1e+12	NDD Unbiased	601.92	601.3	-0.6161
307	5e+12	NDD Unbiased	603.21	602.73	-0.4803
308	5e+12	NDD Unbiased	602.26	601.37	-0.8876
309	5e+12	NDD Unbiased	601.44	600.56	-0.8876
310	5e+12	NDD Unbiased	600.9	600.15	-0.7519
311	1e+13	NDD Unbiased	602.46	600.62	-1.8378
312	1e+13	NDD Unbiased	601.92	599.74	-2.1772
313	1e+13	NDD Unbiased	603.21	601.3	-1.9057
314	1e+13	NDD Unbiased	602.53	600.56	-1.9736
315	0	Correlation	601.99	601.78	-0.2089
316	0	Correlation	602.19	602.18	-0.0052
317	0	Correlation	603.14	602.93	-0.2088

Test Statistics (mV)

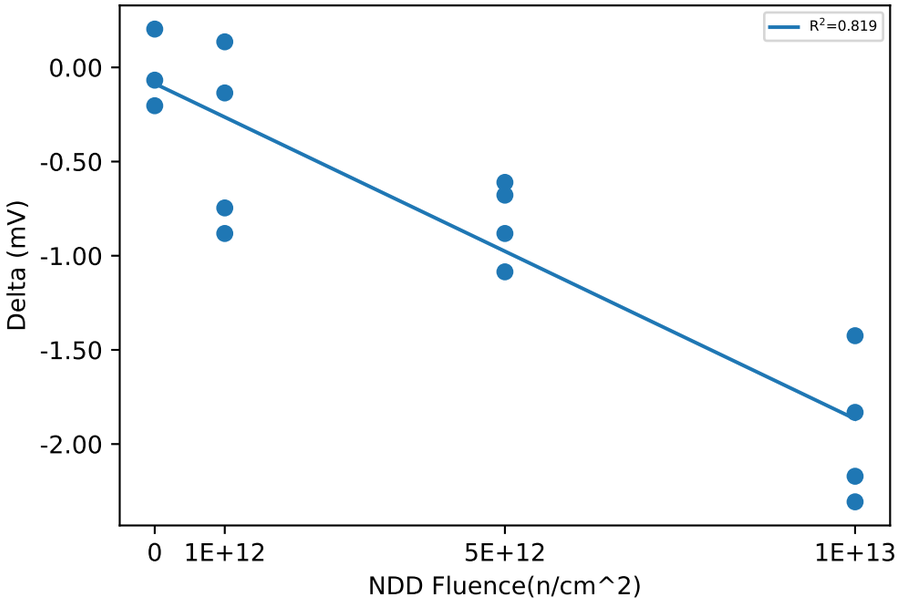
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	601.99	602.44	603.14	0.61584	601.78	602.3	602.93	0.58521	-0.2089	-0.14097	-0.0052	0.11758
1e+12	601.92	602.83	603.68	0.72363	601.3	602.63	603.41	0.91819	-0.6161	-0.20885	0.1984	0.3371
5e+12	600.9	601.95	603.21	1.006	600.15	601.2	602.73	1.1378	-0.8876	-0.75185	-0.4803	0.192
1e+13	601.92	602.53	603.21	0.52866	599.74	600.56	601.3	0.63912	-2.1772	-1.9736	-1.8378	0.14663

Device Test: 13.7; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

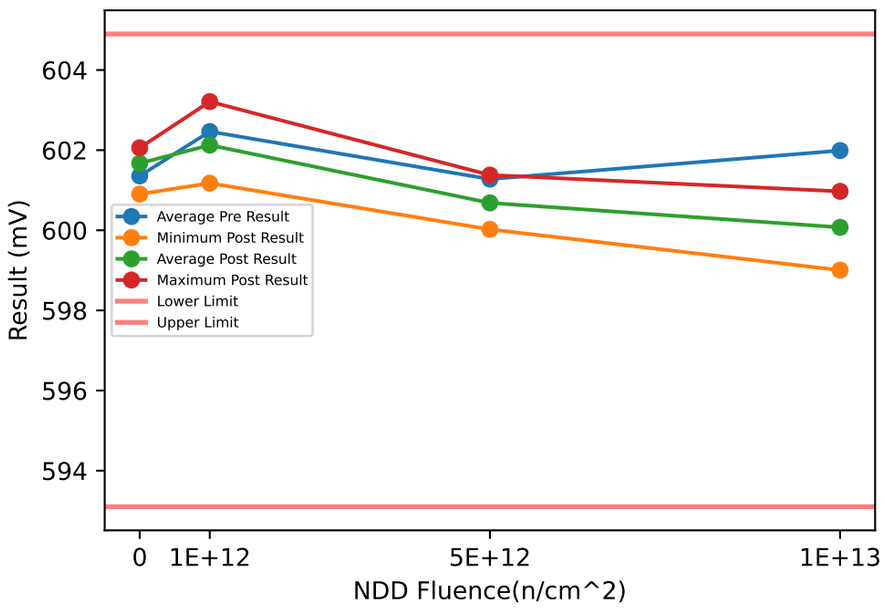
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	599.62	599.48	-0.1356
304	1e+12	NDD Unbiased	600.43	599.68	-0.7462
305	1e+12	NDD Unbiased	598.8	598.94	0.1358
306	1e+12	NDD Unbiased	598.73	597.85	-0.8819
307	5e+12	NDD Unbiased	599.28	598.39	-0.8819
308	5e+12	NDD Unbiased	597.58	596.97	-0.6106
309	5e+12	NDD Unbiased	598.05	597.38	-0.6783
310	5e+12	NDD Unbiased	598.53	597.44	-1.0855
311	1e+13	NDD Unbiased	598.73	596.9	-1.8318
312	1e+13	NDD Unbiased	597.72	596.29	-1.4247
313	1e+13	NDD Unbiased	599.75	597.58	-2.171
314	1e+13	NDD Unbiased	598.87	596.56	-2.3067
315	0	Correlation	597.78	597.72	-0.0677
316	0	Correlation	598.73	598.53	-0.2035
317	0	Correlation	598.67	598.87	0.2035

Test Statistics (mV)

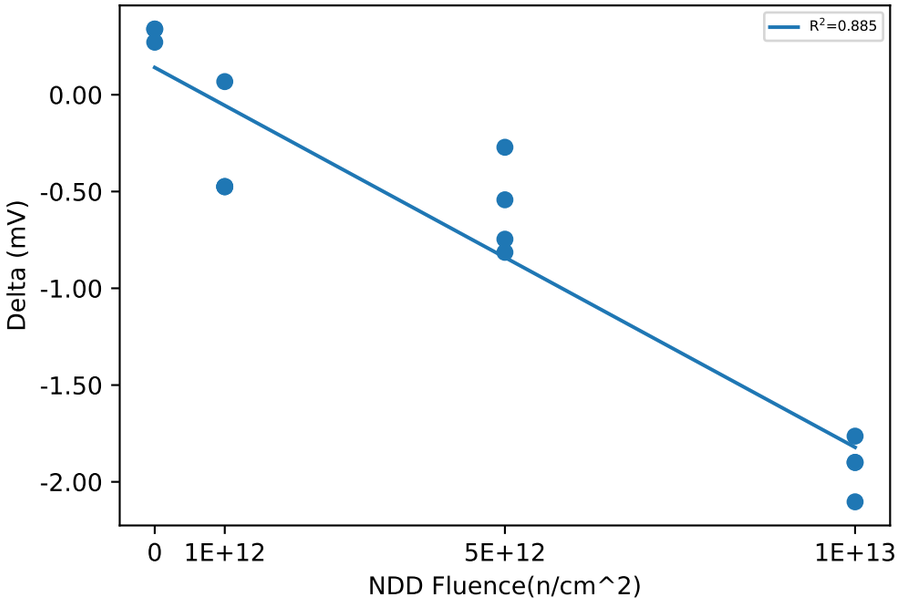
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	597.78	598.39	598.73	0.52994	597.72	598.37	598.87	0.59272	-0.2035	-0.022567	0.2035	0.20722
1e+12	598.73	599.39	600.43	0.79772	597.85	598.99	599.68	0.82048	-0.8819	-0.40697	0.1358	0.4861
5e+12	597.58	598.36	599.28	0.72333	596.97	597.55	598.39	0.60304	-1.0855	-0.81408	-0.6106	0.21456
1e+13	597.72	598.77	599.75	0.83371	596.29	596.83	597.58	0.55673	-2.3067	-1.9335	-1.4247	0.39366

Device Test: 13.8; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

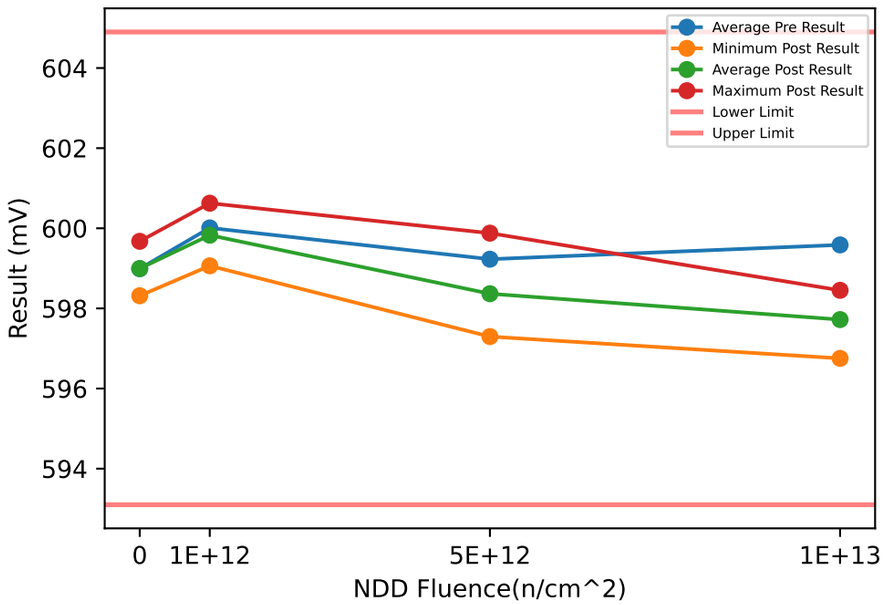
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	602.26	602.33	0.0679
304	1e+12	NDD Unbiased	603.69	603.21	-0.4748
305	1e+12	NDD Unbiased	602.26	601.79	-0.4748
306	1e+12	NDD Unbiased	601.65	601.18	-0.4749
307	5e+12	NDD Unbiased	602.19	601.38	-0.8141
308	5e+12	NDD Unbiased	600.57	600.02	-0.5427
309	5e+12	NDD Unbiased	600.63	600.36	-0.2714
310	5e+12	NDD Unbiased	601.72	600.97	-0.7463
311	1e+13	NDD Unbiased	601.92	600.16	-1.7639
312	1e+13	NDD Unbiased	601.11	599	-2.1032
313	1e+13	NDD Unbiased	602.87	600.97	-1.8996
314	1e+13	NDD Unbiased	602.06	600.16	-1.8996
315	0	Correlation	600.63	600.9	0.2714
316	0	Correlation	601.72	602.06	0.3393
317	0	Correlation	601.72	602.06	0.3393

Test Statistics (mV)

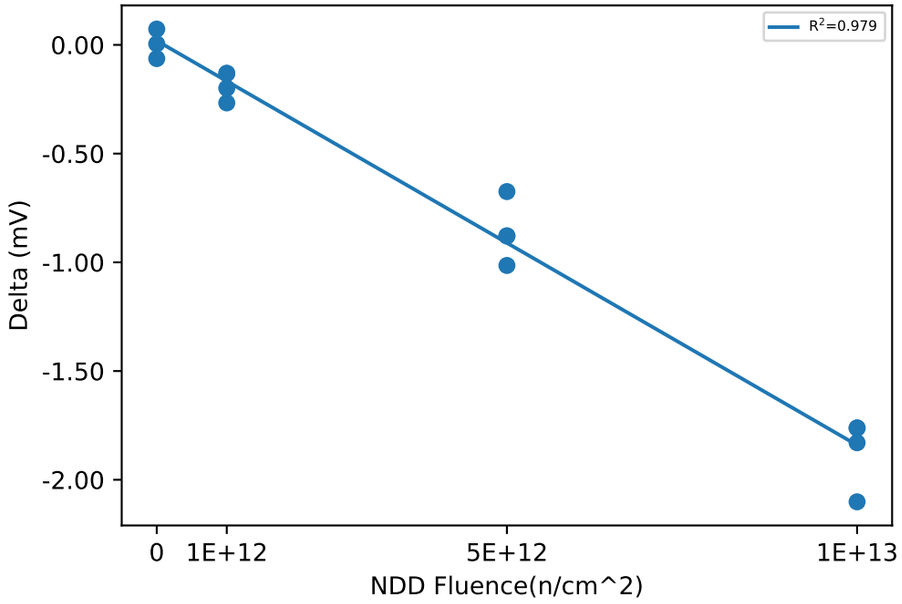
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	600.63	601.36	601.72	0.62671	600.9	601.67	602.06	0.66592	0.2714	0.31667	0.3393	0.039202
1e+12	601.65	602.46	603.69	0.86352	601.18	602.13	603.21	0.86354	-0.4749	-0.33915	0.0679	0.27137
5e+12	600.57	601.28	602.19	0.80752	600.02	600.68	601.38	0.60777	-0.8141	-0.59363	-0.2714	0.24382
1e+13	601.11	601.99	602.87	0.72224	599	600.07	600.97	0.80918	-2.1032	-1.9166	-1.7639	0.1399

Device Test: 13.9; VTH_SENSE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 593.1, Upper Limit = 604.9 (mV))

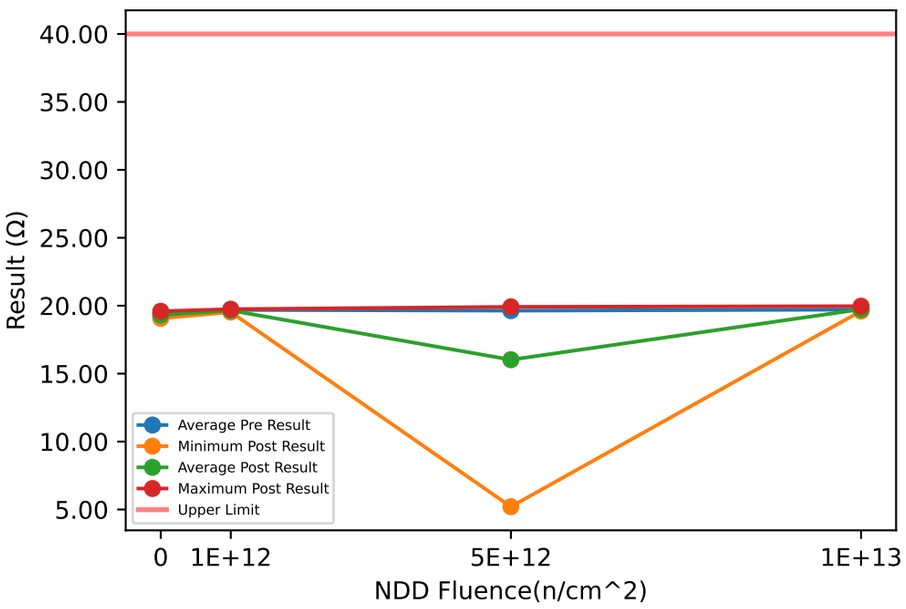
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	600.35	600.22	-0.1311
304	1e+12	NDD Unbiased	600.83	600.63	-0.199
305	1e+12	NDD Unbiased	599.53	599.4	-0.131
306	1e+12	NDD Unbiased	599.33	599.06	-0.2669
307	5e+12	NDD Unbiased	600.55	599.88	-0.6746
308	5e+12	NDD Unbiased	599.26	598.38	-0.8785
309	5e+12	NDD Unbiased	598.31	597.3	-1.0144
310	5e+12	NDD Unbiased	598.79	597.91	-0.8785
311	1e+13	NDD Unbiased	599.67	597.57	-2.1014
312	1e+13	NDD Unbiased	598.58	596.75	-1.8297
313	1e+13	NDD Unbiased	600.21	598.45	-1.7618
314	1e+13	NDD Unbiased	599.87	598.11	-1.7618
315	0	Correlation	598.92	599	0.0727
316	0	Correlation	598.31	598.32	0.0048
317	0	Correlation	599.74	599.67	-0.0631

Test Statistics (mV)

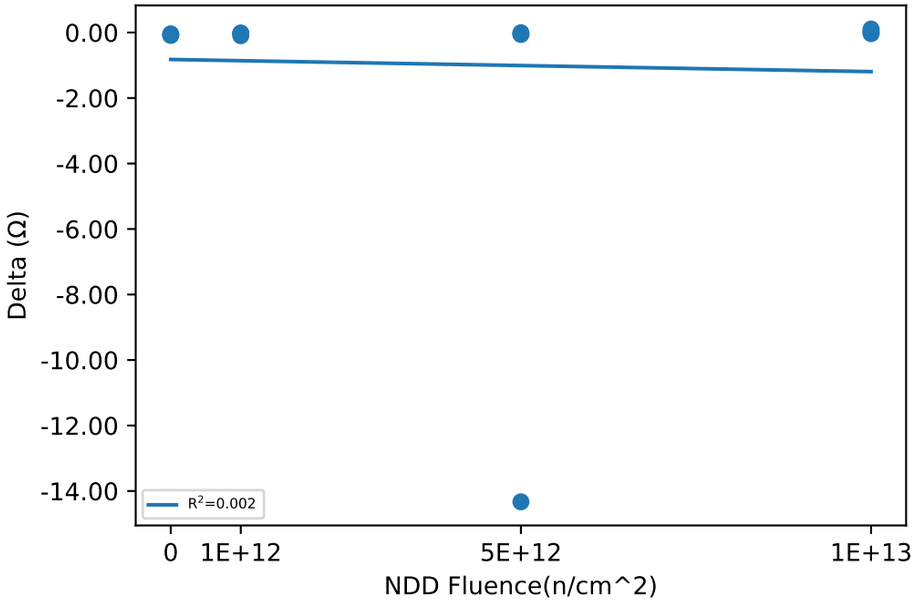
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	598.31	598.99	599.74	0.71582	598.32	599	599.67	0.67945	-0.0631	0.0048	0.0727	0.0679
1e+12	599.33	600.01	600.83	0.69955	599.06	599.83	600.63	0.71984	-0.2669	-0.182	-0.131	0.065035
5e+12	598.31	599.23	600.55	0.96485	597.3	598.37	599.88	1.1017	-1.0144	-0.8615	-0.6746	0.1401
1e+13	598.58	599.59	600.21	0.70471	596.75	597.72	598.45	0.74088	-2.1014	-1.8637	-1.7618	0.16168

Device Test: 18.1; RESET_RPMOS_LOW_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



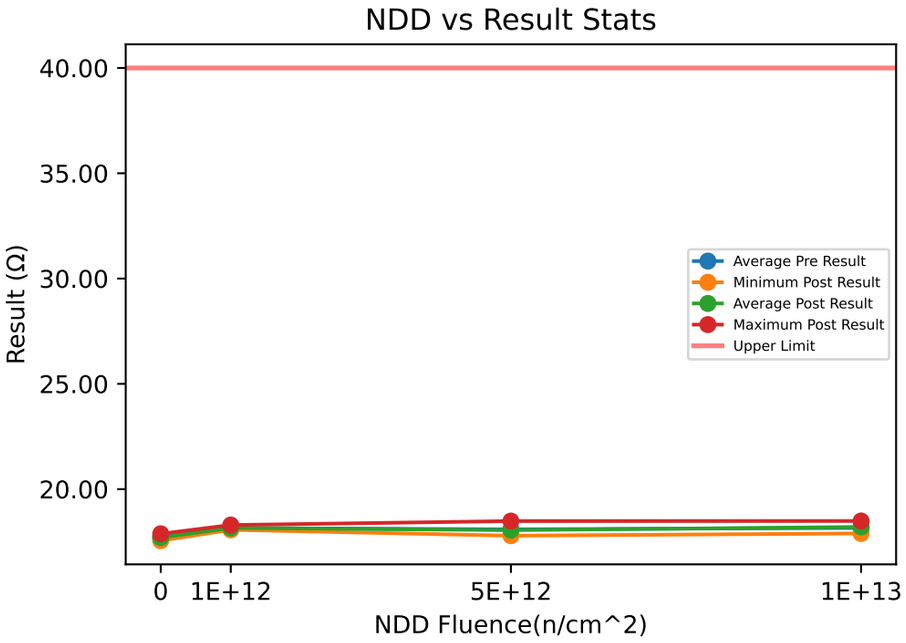
Test Results (Upper Limit = 40.0 (Ω))

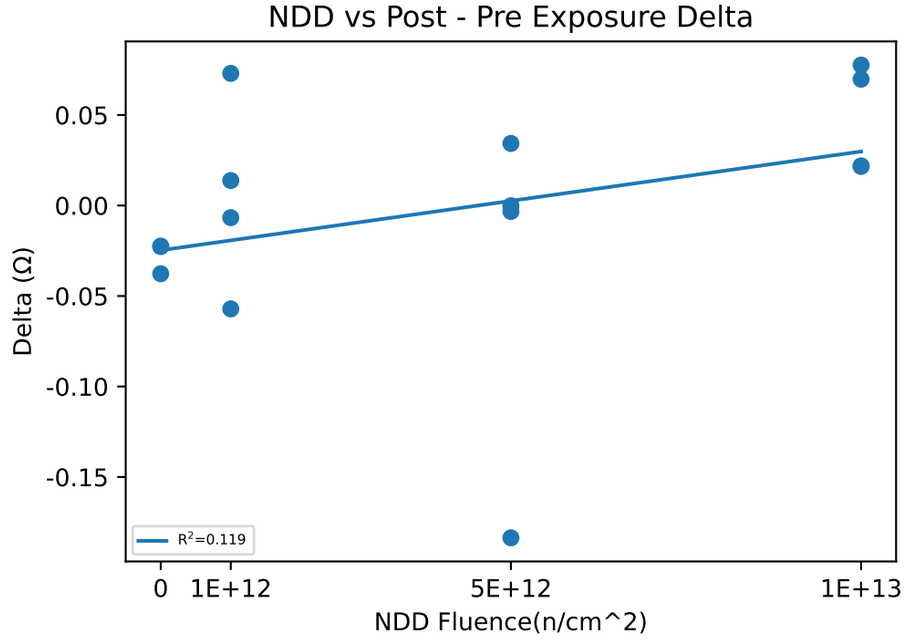
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.625	19.528	-0.0968
304	1e+12	NDD Unbiased	19.766	19.73	-0.0363
305	1e+12	NDD Unbiased	19.768	19.746	-0.022
306	1e+12	NDD Unbiased	19.61	19.592	-0.018
307	5e+12	NDD Unbiased	19.541	19.535	-0.0069
308	5e+12	NDD Unbiased	19.974	19.917	-0.0574
309	5e+12	NDD Unbiased	19.489	19.439	-0.0495
310	5e+12	NDD Unbiased	19.536	5.2061	-14.33
311	1e+13	NDD Unbiased	19.664	19.63	-0.0338
312	1e+13	NDD Unbiased	19.563	19.605	0.0426
313	1e+13	NDD Unbiased	19.861	19.966	0.1051
314	1e+13	NDD Unbiased	19.757	19.744	-0.0135
315	0	Correlation	19.364	19.28	-0.0839
316	0	Correlation	19.634	19.592	-0.0412
317	0	Correlation	19.151	19.07	-0.0802

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.151	19.383	19.634	0.24204	19.07	19.314	19.592	0.26268	-0.0839	-0.068433	-0.0412	0.023657
1e+12	19.61	19.692	19.768	0.086582	19.528	19.649	19.746	0.10616	-0.0968	-0.043275	-0.018	0.036538
5e+12	19.489	19.635	19.974	0.22738	5.2061	16.024	19.917	7.2151	-14.33	-3.6109	-0.0069	7.146
1e+13	19.563	19.711	19.861	0.12764	19.605	19.736	19.966	0.16469	-0.0338	0.0251	0.1051	0.062358

Device Test: 18.10; RESET_RPMOS_LOW_V





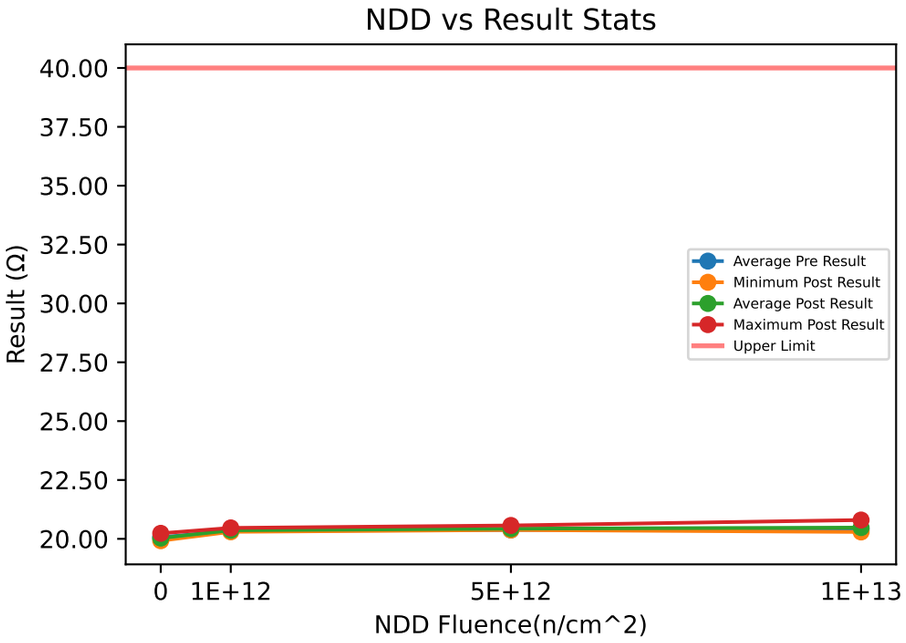
Test Results (Upper Limit = 40.0 (Ω))

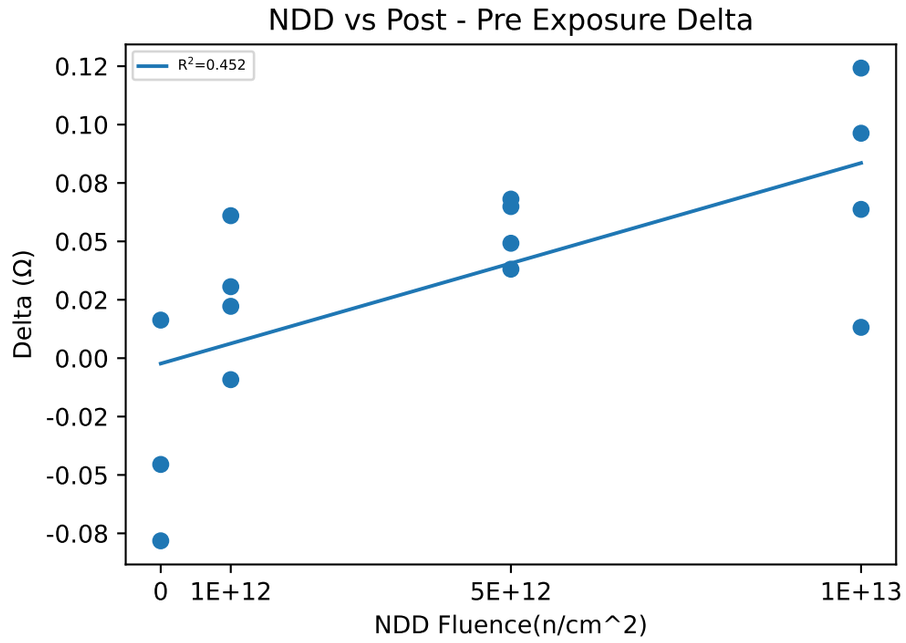
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	18.077	18.07	-0.0067
304	1e+12	NDD Unbiased	18.179	18.193	0.0138
305	1e+12	NDD Unbiased	18.222	18.295	0.073
306	1e+12	NDD Unbiased	18.125	18.068	-0.0571
307	5e+12	NDD Unbiased	18.011	18.007	-0.0033
308	5e+12	NDD Unbiased	18.483	18.483	-0.0001
309	5e+12	NDD Unbiased	17.897	17.931	0.0343
310	5e+12	NDD Unbiased	17.974	17.79	-0.1836
311	1e+13	NDD Unbiased	17.874	17.896	0.0219
312	1e+13	NDD Unbiased	18.134	18.156	0.0216
313	1e+13	NDD Unbiased	18.409	18.487	0.0776
314	1e+13	NDD Unbiased	18.21	18.28	0.0698
315	0	Correlation	17.684	17.662	-0.0224
316	0	Correlation	17.917	17.879	-0.0377
317	0	Correlation	17.573	17.55	-0.0227

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	17.573	17.725	17.917	0.17554	17.55	17.697	17.879	0.16731	-0.0377	-0.0276	-0.0224	0.0087481
1e+12	18.077	18.151	18.222	0.063277	18.068	18.157	18.295	0.10936	-0.0571	0.00575	0.073	0.053828
5e+12	17.897	18.091	18.483	0.2656	17.79	18.053	18.483	0.30054	-0.1836	-0.038175	0.0343	0.098433
1e+13	17.874	18.157	18.409	0.22131	17.896	18.205	18.487	0.24689	0.0216	0.047725	0.0776	0.030162

Device Test: 18.11; PWRGD_RPMOS_LOW_V





Test Results (Upper Limit = 40.0 (Ω))

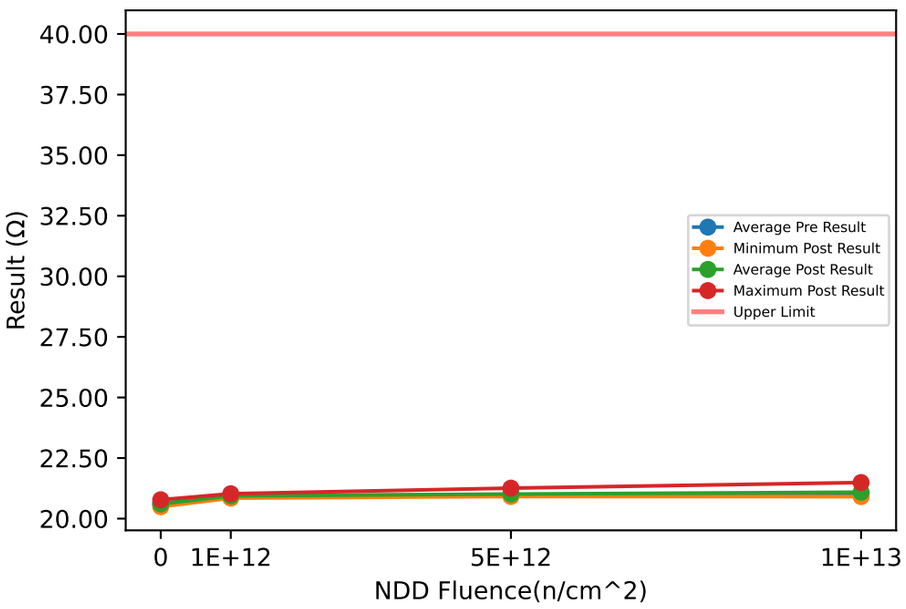
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	20.237	20.298	0.061
304	1e+12	NDD Unbiased	20.375	20.366	-0.0092
305	1e+12	NDD Unbiased	20.442	20.465	0.0222
306	1e+12	NDD Unbiased	20.295	20.326	0.0306
307	5e+12	NDD Unbiased	20.348	20.397	0.0492
308	5e+12	NDD Unbiased	20.53	20.568	0.0381
309	5e+12	NDD Unbiased	20.311	20.376	0.0649
310	5e+12	NDD Unbiased	20.321	20.389	0.0681
311	1e+13	NDD Unbiased	20.229	20.292	0.0637
312	1e+13	NDD Unbiased	20.273	20.397	0.1242
313	1e+13	NDD Unbiased	20.703	20.799	0.0963
314	1e+13	NDD Unbiased	20.41	20.424	0.0132
315	0	Correlation	20.016	19.938	-0.0782
316	0	Correlation	20.28	20.234	-0.0455
317	0	Correlation	19.904	19.92	0.0163

Test Statistics (Ω)

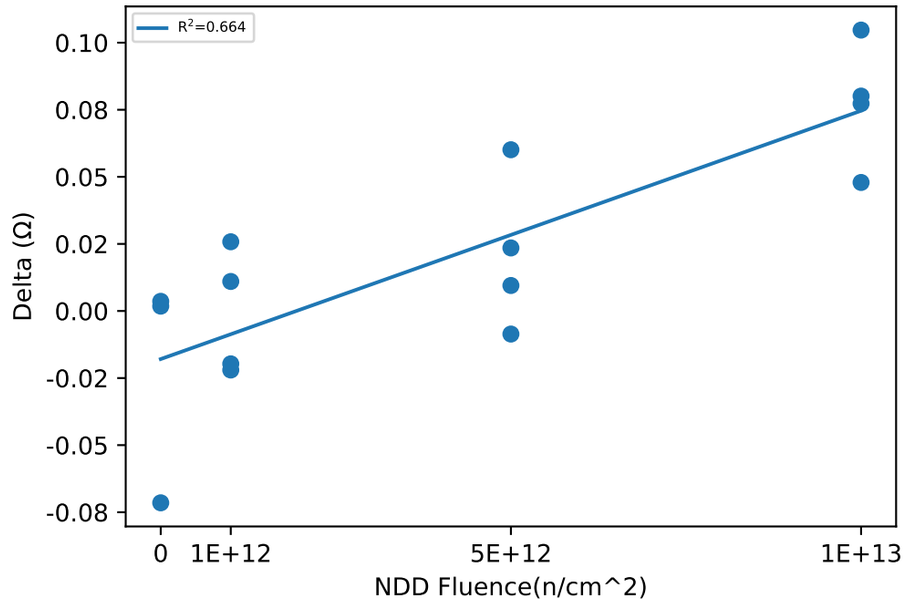
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.904	20.067	20.28	0.19281	19.92	20.031	20.234	0.17629	-0.0782	-0.0358	0.0163	0.047991
1e+12	20.237	20.337	20.442	0.089804	20.298	20.364	20.465	0.072716	-0.0092	0.02615	0.061	0.028865
5e+12	20.311	20.377	20.53	0.10294	20.376	20.433	20.568	0.090875	0.0381	0.055075	0.0681	0.01401
1e+13	20.229	20.404	20.703	0.21383	20.292	20.478	20.799	0.22131	0.0132	0.07435	0.1242	0.047678

Device Test: 18.12; WDO_RPMOS_LOW_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 40.0 (Ω))

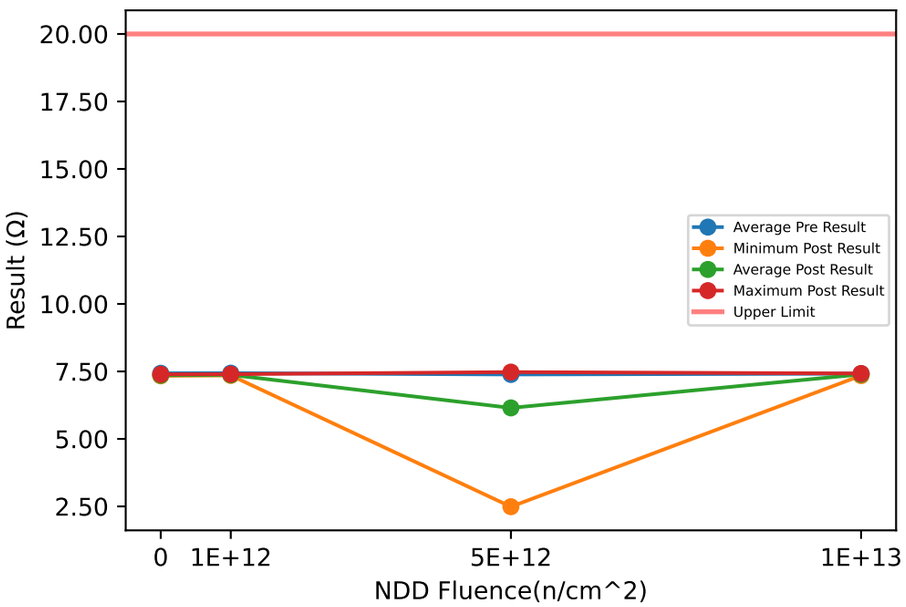
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	20.869	20.88	0.011
304	1e+12	NDD Unbiased	21.049	21.027	-0.022
305	1e+12	NDD Unbiased	21.023	21.004	-0.0197
306	1e+12	NDD Unbiased	20.821	20.847	0.0258
307	5e+12	NDD Unbiased	20.942	20.933	-0.0086
308	5e+12	NDD Unbiased	21.249	21.259	0.0095
309	5e+12	NDD Unbiased	20.852	20.913	0.0601
310	5e+12	NDD Unbiased	20.929	20.952	0.0235
311	1e+13	NDD Unbiased	20.828	20.909	0.0801
312	1e+13	NDD Unbiased	20.899	20.947	0.0479
313	1e+13	NDD Unbiased	21.384	21.489	0.1047
314	1e+13	NDD Unbiased	20.944	21.021	0.0773
315	0	Correlation	20.544	20.546	0.0018
316	0	Correlation	20.85	20.779	-0.0715
317	0	Correlation	20.488	20.492	0.0036

Test Statistics (Ω)

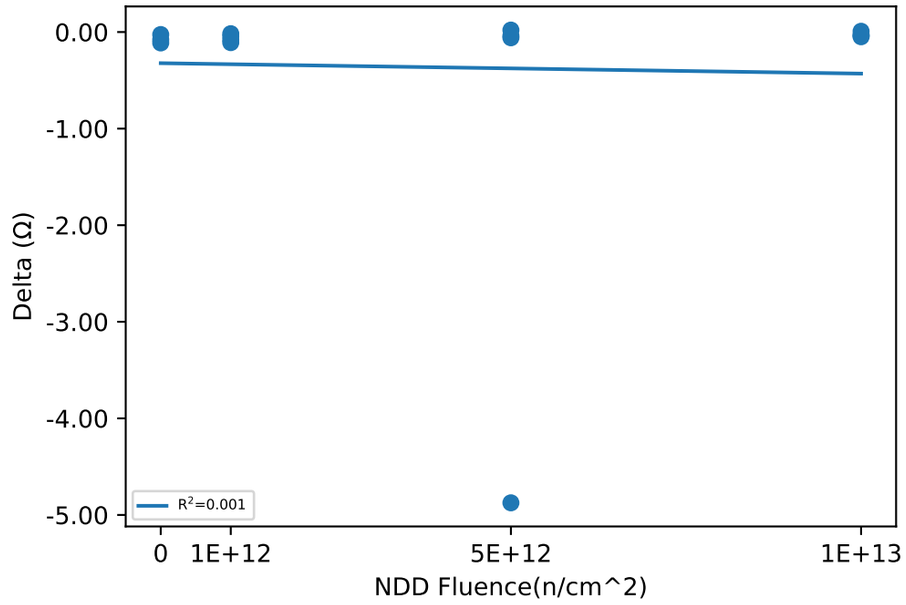
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.488	20.628	20.85	0.19486	20.492	20.606	20.779	0.15244	-0.0715	-0.022033	0.0036	0.042849
1e+12	20.821	20.941	21.049	0.11259	20.847	20.939	21.027	0.089269	-0.022	-0.001225	0.0258	0.023471
5e+12	20.852	20.993	21.249	0.17515	20.913	21.014	21.259	0.16371	-0.0086	0.021125	0.0601	0.029117
1e+13	20.828	21.014	21.384	0.25145	20.909	21.091	21.489	0.26915	0.0479	0.0775	0.1047	0.023258

Device Test: 18.13; RESET_RPMOS_HIGH_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



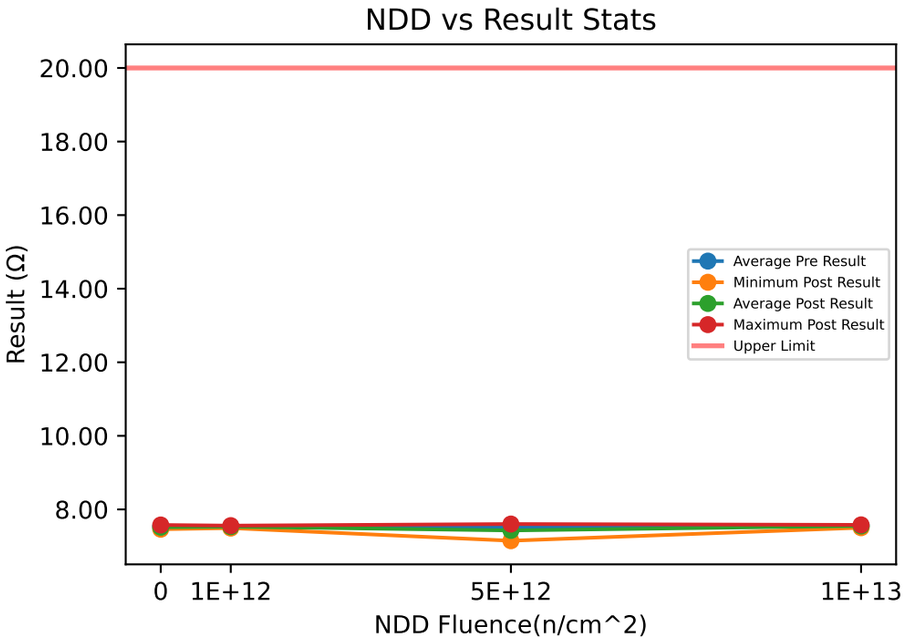
Test Results (Upper Limit = 20.0 (Ω))

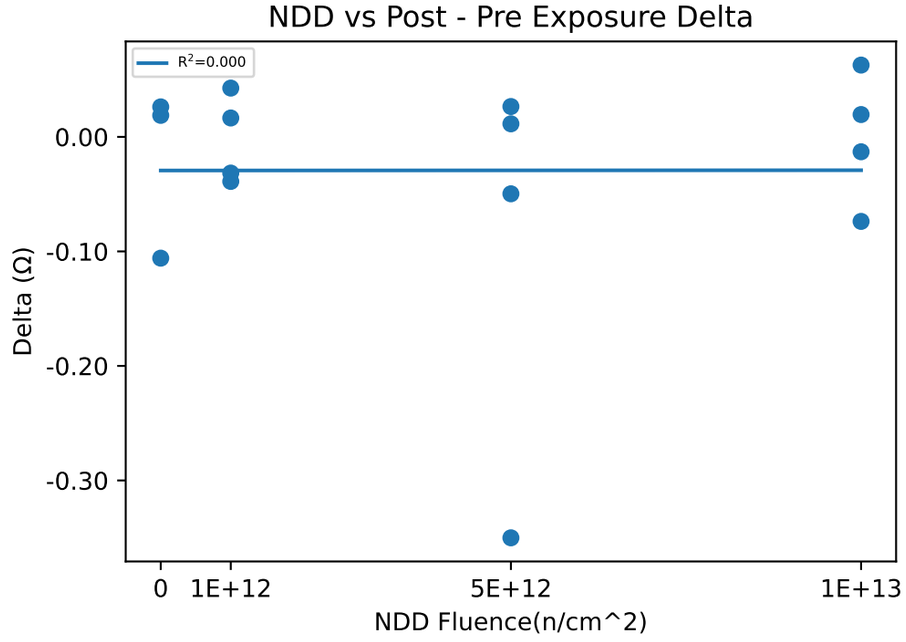
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	7.3987	7.3548	-0.0439
304	1e+12	NDD Unbiased	7.4614	7.3518	-0.1096
305	1e+12	NDD Unbiased	7.4792	7.3982	-0.081
306	1e+12	NDD Unbiased	7.4033	7.3863	-0.017
307	5e+12	NDD Unbiased	7.4105	7.3512	-0.0593
308	5e+12	NDD Unbiased	7.4546	7.475	0.0204
309	5e+12	NDD Unbiased	7.321	7.2822	-0.0388
310	5e+12	NDD Unbiased	7.3627	2.4882	-4.8745
311	1e+13	NDD Unbiased	7.4612	7.4234	-0.0378
312	1e+13	NDD Unbiased	7.3738	7.3459	-0.0279
313	1e+13	NDD Unbiased	7.4664	7.4176	-0.0488
314	1e+13	NDD Unbiased	7.3689	7.377	0.0081
315	0	Correlation	7.3713	7.3455	-0.0258
316	0	Correlation	7.5063	7.3935	-0.1128
317	0	Correlation	7.4155	7.3371	-0.0784

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.3713	7.431	7.5063	0.068827	7.3371	7.3587	7.3935	0.030429	-0.1128	-0.072333	-0.0258	0.043816
1e+12	7.3987	7.4356	7.4792	0.040708	7.3518	7.3728	7.3982	0.023039	-0.1096	-0.062875	-0.017	0.040728
5e+12	7.321	7.3872	7.4546	0.057932	2.4882	6.1491	7.475	2.4419	-4.8745	-1.2381	0.0204	2.4245
1e+13	7.3689	7.4176	7.4664	0.053456	7.3459	7.391	7.4234	0.036457	-0.0488	-0.0266	0.0081	0.024658

Device Test: 18.14; RESET_RPMOS_HIGH_V





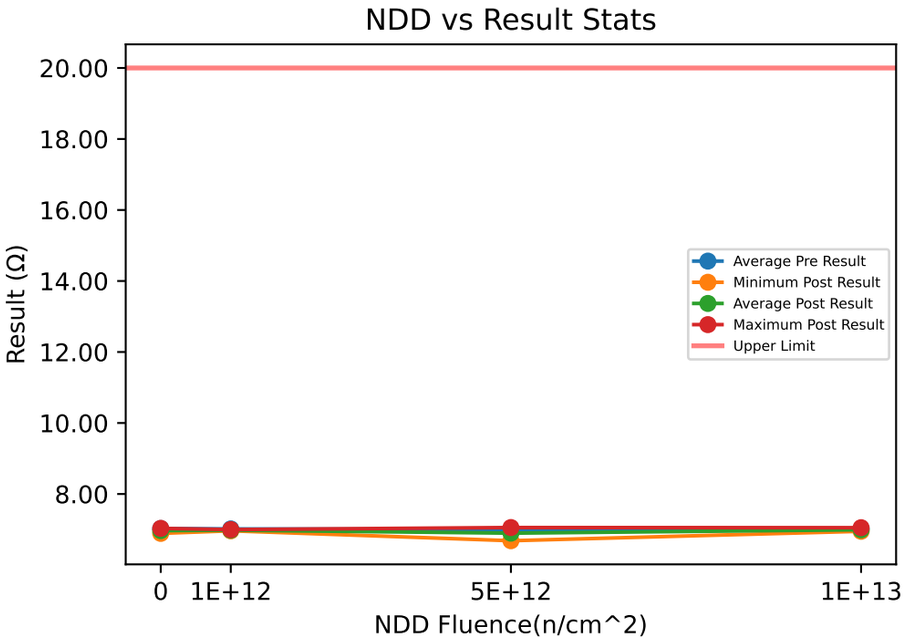
Test Results (Upper Limit = 20.0 (Ω))

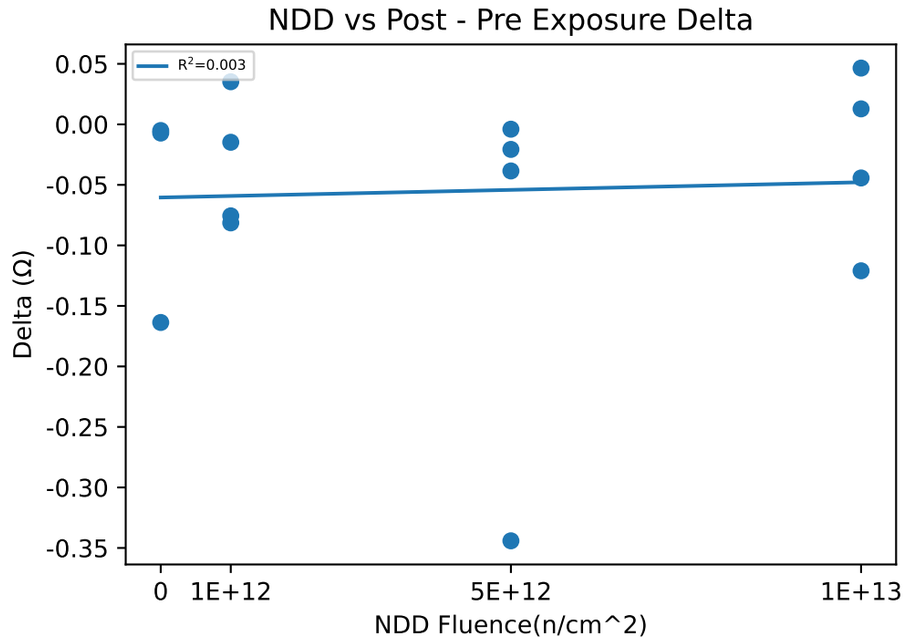
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	7.5165	7.5591	0.0426
304	1e+12	NDD Unbiased	7.5658	7.5269	-0.0389
305	1e+12	NDD Unbiased	7.573	7.5414	-0.0316
306	1e+12	NDD Unbiased	7.4759	7.4924	0.0165
307	5e+12	NDD Unbiased	7.5521	7.5024	-0.0497
308	5e+12	NDD Unbiased	7.5909	7.6023	0.0114
309	5e+12	NDD Unbiased	7.4334	7.4599	0.0265
310	5e+12	NDD Unbiased	7.499	7.1489	-0.3501
311	1e+13	NDD Unbiased	7.5603	7.5798	0.0195
312	1e+13	NDD Unbiased	7.5154	7.5024	-0.013
313	1e+13	NDD Unbiased	7.6186	7.5448	-0.0738
314	1e+13	NDD Unbiased	7.5132	7.5759	0.0627
315	0	Correlation	7.481	7.5072	0.0262
316	0	Correlation	7.5577	7.5765	0.0188
317	0	Correlation	7.5677	7.4618	-0.1059

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.481	7.5355	7.5677	0.047434	7.4618	7.5152	7.5765	0.057764	-0.1059	-0.0203	0.0262	0.074224
1e+12	7.4759	7.5328	7.573	0.045491	7.4924	7.53	7.5591	0.028285	-0.0389	-0.00285	0.0426	0.039014
5e+12	7.4334	7.5189	7.5909	0.068295	7.1489	7.4284	7.6023	0.19564	-0.3501	-0.090475	0.0265	0.17619
1e+13	7.5132	7.5519	7.6186	0.049495	7.5024	7.5507	7.5798	0.035822	-0.0738	-0.00115	0.0627	0.057509

Device Test: 18.15; RESET_RPMOS_HIGH_V





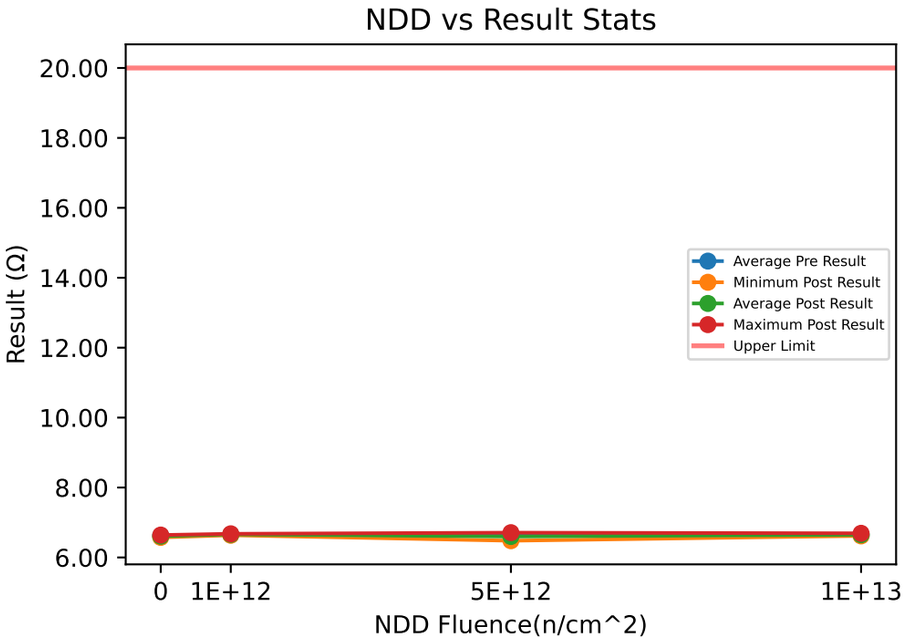
Test Results (Upper Limit = 20.0 (Ω))

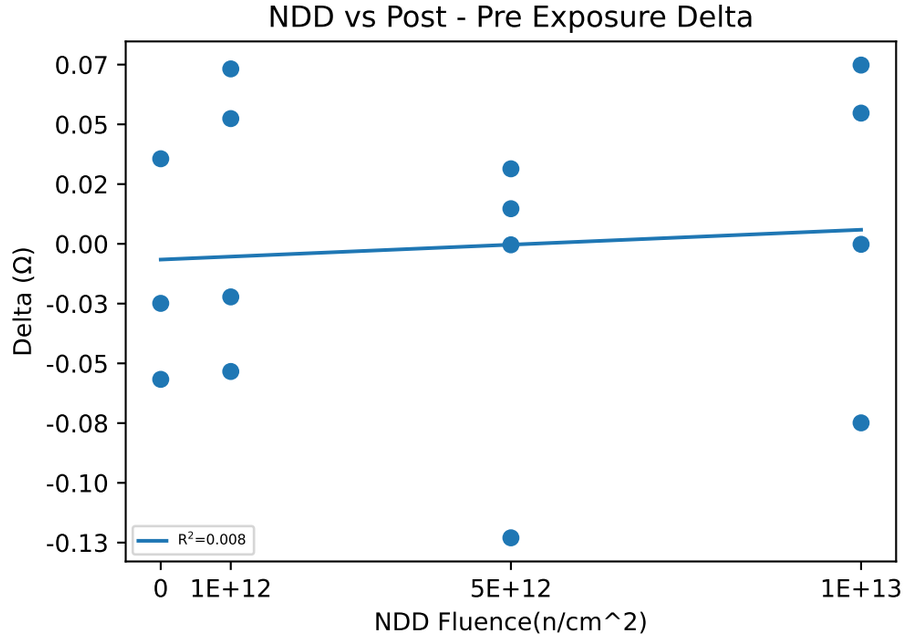
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	6.9557	6.9909	0.0352
304	1e+12	NDD Unbiased	7.0396	6.964	-0.0756
305	1e+12	NDD Unbiased	7.0573	6.9759	-0.0814
306	1e+12	NDD Unbiased	7.0133	6.9985	-0.0148
307	5e+12	NDD Unbiased	6.9675	6.929	-0.0385
308	5e+12	NDD Unbiased	7.0593	7.0553	-0.004
309	5e+12	NDD Unbiased	6.9417	6.921	-0.0207
310	5e+12	NDD Unbiased	7.0285	6.6844	-0.3441
311	1e+13	NDD Unbiased	7.0049	7.0514	0.0465
312	1e+13	NDD Unbiased	7.0103	6.966	-0.0443
313	1e+13	NDD Unbiased	7.0711	6.9501	-0.121
314	1e+13	NDD Unbiased	6.9896	7.0024	0.0128
315	0	Correlation	6.9867	6.9816	-0.0051
316	0	Correlation	7.0394	7.0322	-0.0072
317	0	Correlation	7.0547	6.891	-0.1637

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.9867	7.0269	7.0547	0.035673	6.891	6.9683	7.0322	0.071538	-0.1637	-0.058667	-0.0051	0.090968
1e+12	6.9557	7.0165	7.0573	0.044366	6.964	6.9823	6.9985	0.015408	-0.0814	-0.03415	0.0352	0.05518
5e+12	6.9417	6.9992	7.0593	0.054104	6.6844	6.8974	7.0553	0.15477	-0.3441	-0.10183	-0.004	0.16213
1e+13	6.9896	7.019	7.0711	0.035839	6.9501	6.9925	7.0514	0.044971	-0.121	-0.0265	0.0465	0.073304

Device Test: 18.16; RESET_RPMOS_HIGH_V





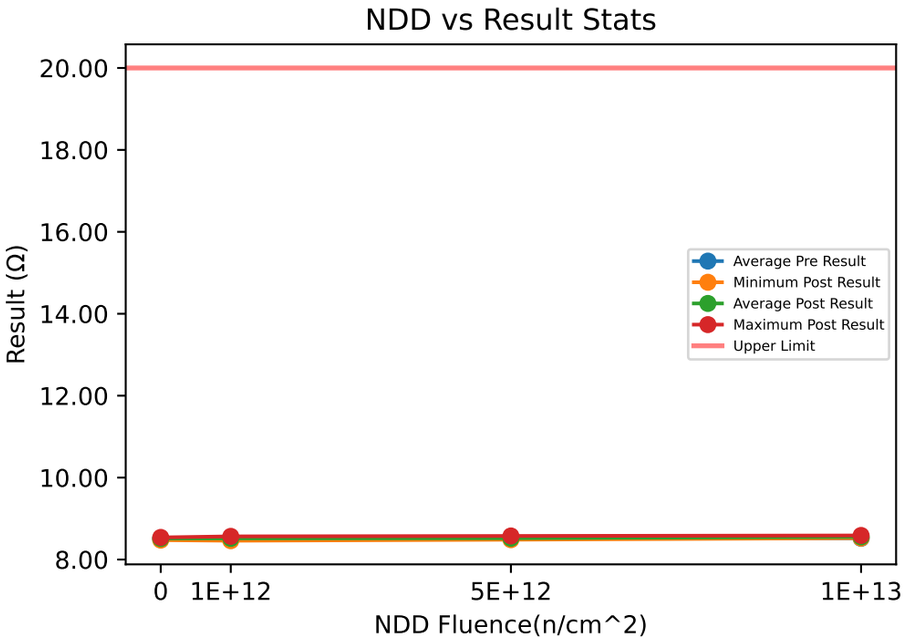
Test Results (Upper Limit = 20.0 (Ω))

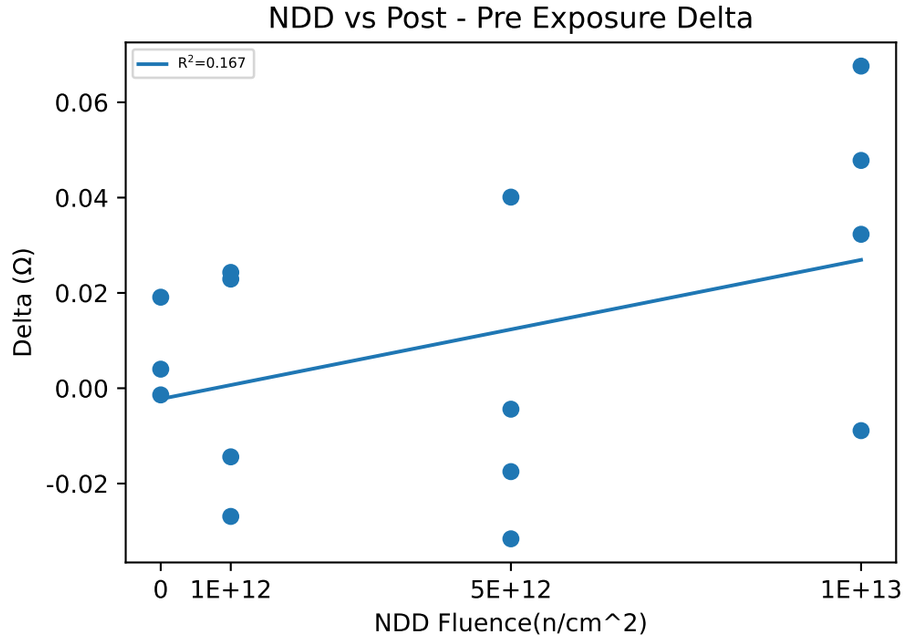
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	6.603	6.6762	0.0732
304	1e+12	NDD Unbiased	6.6895	6.6361	-0.0534
305	1e+12	NDD Unbiased	6.6887	6.6665	-0.0222
306	1e+12	NDD Unbiased	6.6129	6.6653	0.0524
307	5e+12	NDD Unbiased	6.6094	6.609	-0.0004
308	5e+12	NDD Unbiased	6.6774	6.7088	0.0314
309	5e+12	NDD Unbiased	6.5863	6.601	0.0147
310	5e+12	NDD Unbiased	6.6015	6.4785	-0.123
311	1e+13	NDD Unbiased	6.6521	6.6519	-0.0002
312	1e+13	NDD Unbiased	6.586	6.6407	0.0547
313	1e+13	NDD Unbiased	6.6918	6.6169	-0.0749
314	1e+13	NDD Unbiased	6.6156	6.6904	0.0748
315	0	Correlation	6.5729	6.6085	0.0356
316	0	Correlation	6.6655	6.6406	-0.0249
317	0	Correlation	6.6304	6.5737	-0.0567

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.5729	6.6229	6.6655	0.046749	6.5737	6.6076	6.6406	0.033459	-0.0567	-0.015333	0.0356	0.046888
1e+12	6.603	6.6485	6.6895	0.047027	6.6361	6.661	6.6762	0.017318	-0.0534	0.0125	0.0732	0.060065
5e+12	6.5863	6.6186	6.6774	0.040323	6.4785	6.5993	6.7088	0.094304	-0.123	-0.019325	0.0314	0.070326
1e+13	6.586	6.6364	6.6918	0.045784	6.6169	6.65	6.6904	0.030648	-0.0749	0.0136	0.0748	0.066976

Device Test: 18.17; PWRGD_RPMOS_HIGH_V





Test Results (Upper Limit = 20.0 (Ω))

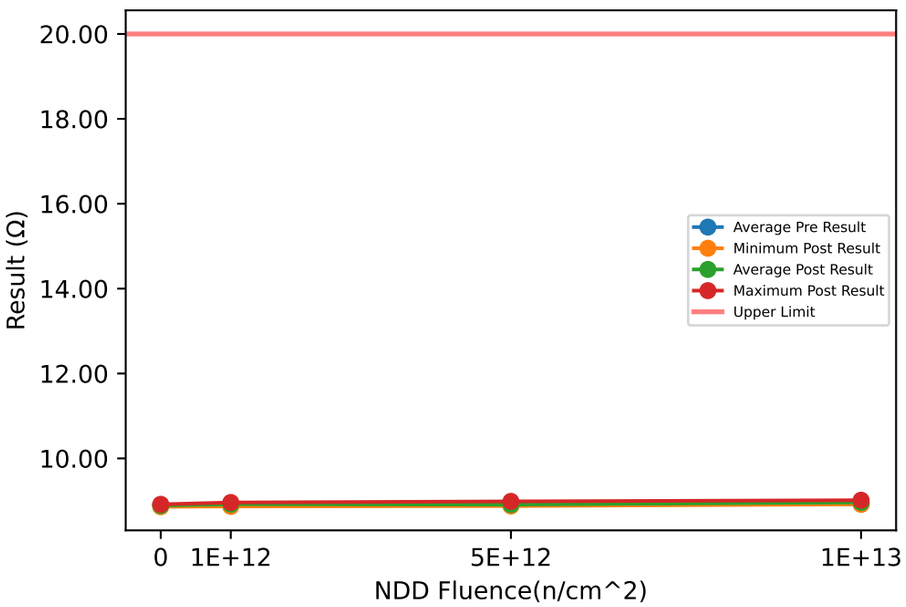
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	8.4862	8.4593	-0.0269
304	1e+12	NDD Unbiased	8.5191	8.5047	-0.0144
305	1e+12	NDD Unbiased	8.5116	8.5345	0.0229
306	1e+12	NDD Unbiased	8.5413	8.5656	0.0243
307	5e+12	NDD Unbiased	8.5158	8.5114	-0.0044
308	5e+12	NDD Unbiased	8.5355	8.5756	0.0401
309	5e+12	NDD Unbiased	8.5406	8.509	-0.0316
310	5e+12	NDD Unbiased	8.5018	8.4843	-0.0175
311	1e+13	NDD Unbiased	8.5158	8.5481	0.0323
312	1e+13	NDD Unbiased	8.4548	8.5224	0.0676
313	1e+13	NDD Unbiased	8.5965	8.5876	-0.0089
314	1e+13	NDD Unbiased	8.505	8.5528	0.0478
315	0	Correlation	8.4548	8.4739	0.0191
316	0	Correlation	8.5264	8.525	-0.0014
317	0	Correlation	8.5357	8.5397	0.004

Test Statistics (Ω)

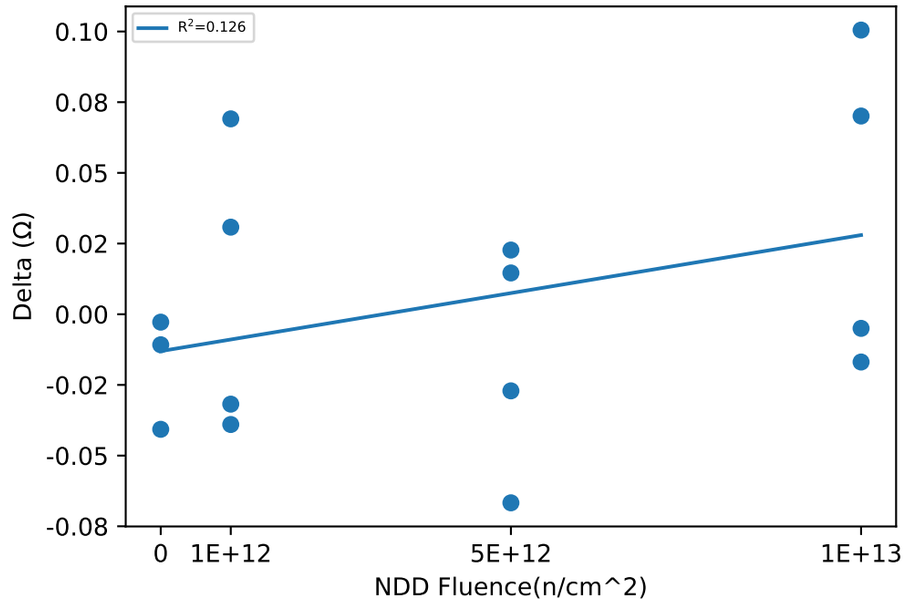
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.4548	8.5056	8.5357	0.044268	8.4739	8.5129	8.5397	0.034537	-0.0014	0.0072333	0.0191	0.010626
1e+12	8.4862	8.5145	8.5413	0.022721	8.4593	8.516	8.5656	0.045258	-0.0269	0.001475	0.0243	0.026059
5e+12	8.5018	8.5234	8.5406	0.01795	8.4843	8.5201	8.5756	0.038991	-0.0316	-0.00335	0.0401	0.031023
1e+13	8.4548	8.518	8.5965	0.058681	8.5224	8.5527	8.5876	0.026816	-0.0089	0.0347	0.0676	0.032459

Device Test: 18.18; WDO_RPMOS_HIGH_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



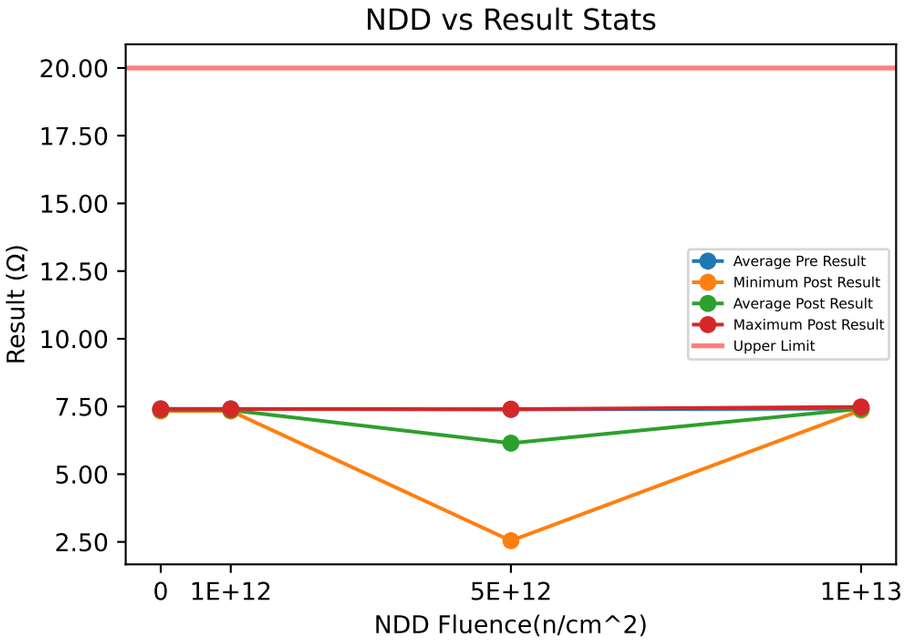
Test Results (Upper Limit = 20.0 (Ω))

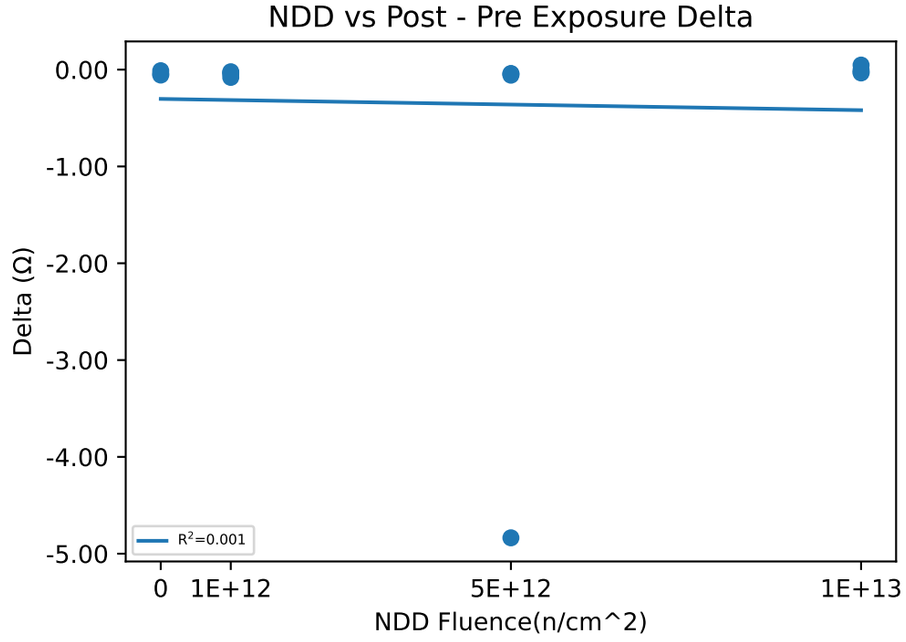
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	8.9072	8.8682	-0.039
304	1e+12	NDD Unbiased	8.9295	8.8977	-0.0318
305	1e+12	NDD Unbiased	8.8875	8.9566	0.0691
306	1e+12	NDD Unbiased	8.9304	8.9612	0.0308
307	5e+12	NDD Unbiased	8.9262	8.8991	-0.0271
308	5e+12	NDD Unbiased	8.9644	8.9871	0.0227
309	5e+12	NDD Unbiased	8.8635	8.8781	0.0146
310	5e+12	NDD Unbiased	8.9519	8.8852	-0.0667
311	1e+13	NDD Unbiased	8.9341	8.9172	-0.0169
312	1e+13	NDD Unbiased	8.8599	8.9604	0.1005
313	1e+13	NDD Unbiased	9.02	9.015	-0.005
314	1e+13	NDD Unbiased	8.8889	8.959	0.0701
315	0	Correlation	8.9023	8.8616	-0.0407
316	0	Correlation	8.9288	8.918	-0.0108
317	0	Correlation	8.893	8.8902	-0.0028

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.893	8.908	8.9288	0.018576	8.8616	8.8899	8.918	0.028201	-0.0407	-0.0181	-0.0028	0.019977
1e+12	8.8875	8.9137	8.9304	0.020471	8.8682	8.9209	8.9612	0.045512	-0.039	0.007275	0.0691	0.051782
5e+12	8.8635	8.9265	8.9644	0.04491	8.8781	8.9124	8.9871	0.050574	-0.0667	-0.014125	0.0227	0.041286
1e+13	8.8599	8.9257	9.02	0.069874	8.9172	8.9629	9.015	0.040101	-0.0169	0.037175	0.1005	0.057146

Device Test: 18.19; RESET_RPMOS_HIGH_V





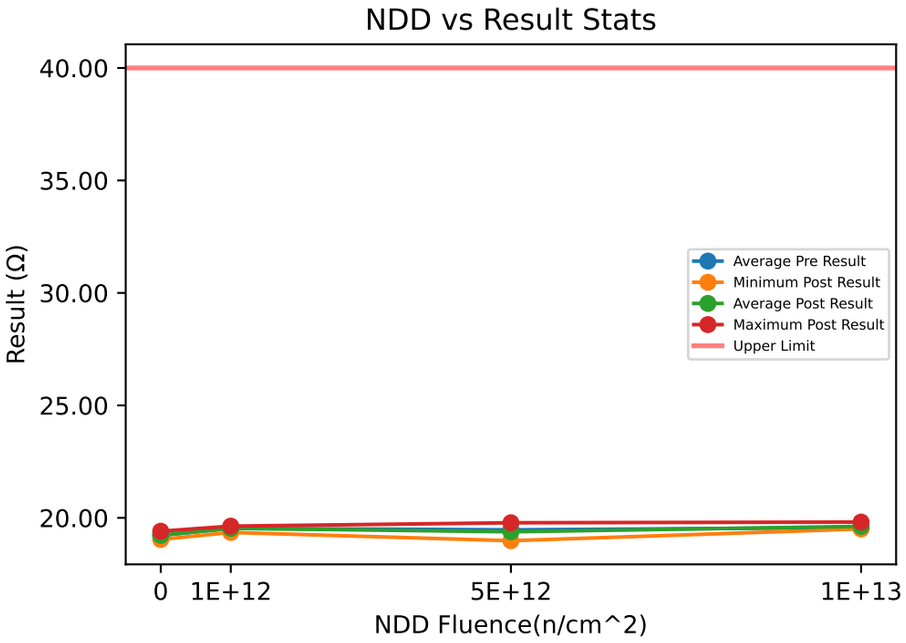
Test Results (Upper Limit = 20.0 (Ω))

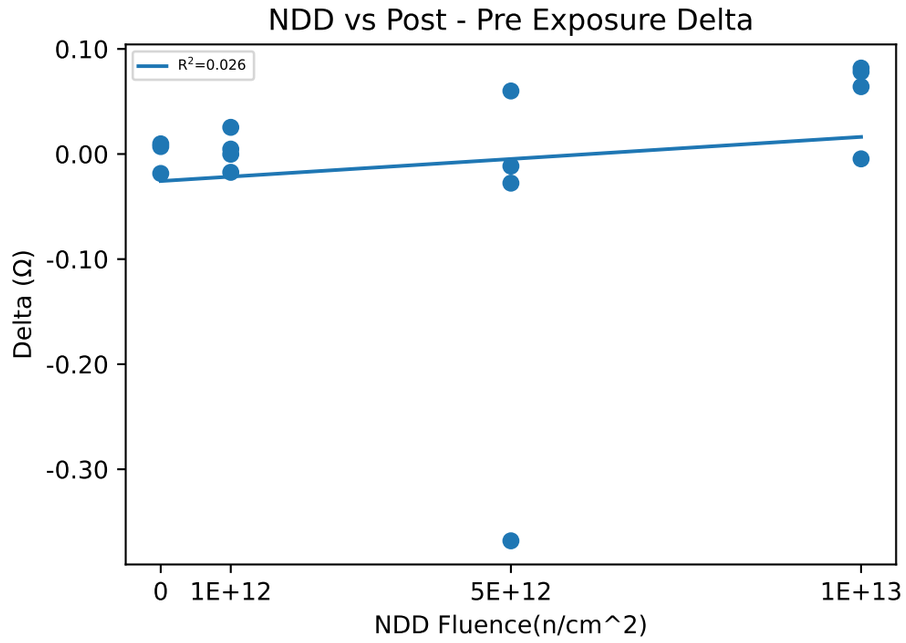
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	7.3852	7.3634	-0.0218
304	1e+12	NDD Unbiased	7.4356	7.3556	-0.08
305	1e+12	NDD Unbiased	7.4398	7.4077	-0.0321
306	1e+12	NDD Unbiased	7.3799	7.3345	-0.0454
307	5e+12	NDD Unbiased	7.4008	7.3437	-0.0571
308	5e+12	NDD Unbiased	7.4434	7.4029	-0.0405
309	5e+12	NDD Unbiased	7.3379	7.2949	-0.043
310	5e+12	NDD Unbiased	7.3797	2.5436	-4.8361
311	1e+13	NDD Unbiased	7.4367	7.4838	0.0471
312	1e+13	NDD Unbiased	7.3743	7.3706	-0.0037
313	1e+13	NDD Unbiased	7.4732	7.4479	-0.0253
314	1e+13	NDD Unbiased	7.3994	7.3652	-0.0342
315	0	Correlation	7.3906	7.3348	-0.0558
316	0	Correlation	7.4536	7.4105	-0.0431
317	0	Correlation	7.3852	7.3742	-0.011

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.3852	7.4098	7.4536	0.038028	7.3348	7.3732	7.4105	0.037861	-0.0558	-0.036633	-0.011	0.023089
1e+12	7.3799	7.4101	7.4398	0.03196	7.3345	7.3653	7.4077	0.03079	-0.08	-0.044825	-0.0218	0.025362
5e+12	7.3379	7.3904	7.4434	0.043924	2.5436	6.1463	7.4029	2.4022	-4.8361	-1.2442	-0.0405	2.3946
1e+13	7.3743	7.4209	7.4732	0.043277	7.3652	7.4169	7.4838	0.058461	-0.0342	-0.004025	0.0471	0.03641

Device Test: 18.2; RESET_RPMOS_LOW_V





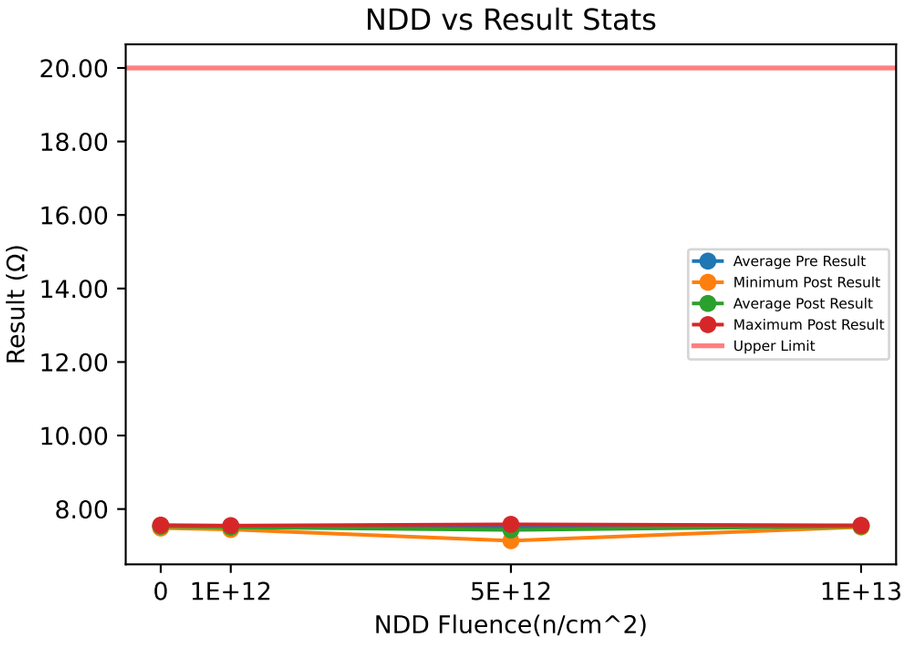
Test Results (Upper Limit = 40.0 (Ω))

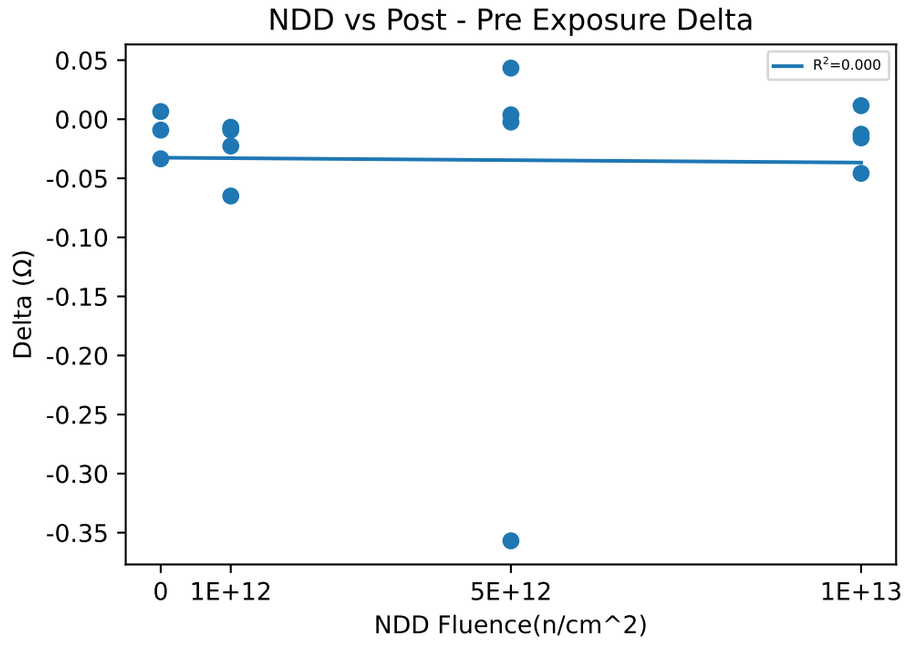
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.526	19.53	0.0047
304	1e+12	NDD Unbiased	19.606	19.632	0.0254
305	1e+12	NDD Unbiased	19.624	19.623	-0.0002
306	1e+12	NDD Unbiased	19.37	19.353	-0.0174
307	5e+12	NDD Unbiased	19.453	19.442	-0.0115
308	5e+12	NDD Unbiased	19.721	19.782	0.06
309	5e+12	NDD Unbiased	19.345	19.317	-0.0277
310	5e+12	NDD Unbiased	19.352	18.984	-0.3681
311	1e+13	NDD Unbiased	19.43	19.508	0.0782
312	1e+13	NDD Unbiased	19.525	19.52	-0.0046
313	1e+13	NDD Unbiased	19.73	19.812	0.0818
314	1e+13	NDD Unbiased	19.586	19.651	0.0641
315	0	Correlation	19.215	19.224	0.0097
316	0	Correlation	19.399	19.407	0.0071
317	0	Correlation	19.06	19.041	-0.0185

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.06	19.225	19.399	0.17002	19.041	19.224	19.407	0.1826	-0.0185	-0.00056667	0.0097	0.015585
1e+12	19.37	19.532	19.624	0.11552	19.353	19.535	19.632	0.12945	-0.0174	0.003125	0.0254	0.017616
5e+12	19.345	19.468	19.721	0.17615	18.984	19.381	19.782	0.32957	-0.3681	-0.086825	0.06	0.19135
1e+13	19.43	19.568	19.73	0.12605	19.508	19.623	19.812	0.1418	-0.0046	0.054875	0.0818	0.040379

Device Test: 18.20; RESET_RPMOS_HIGH_V





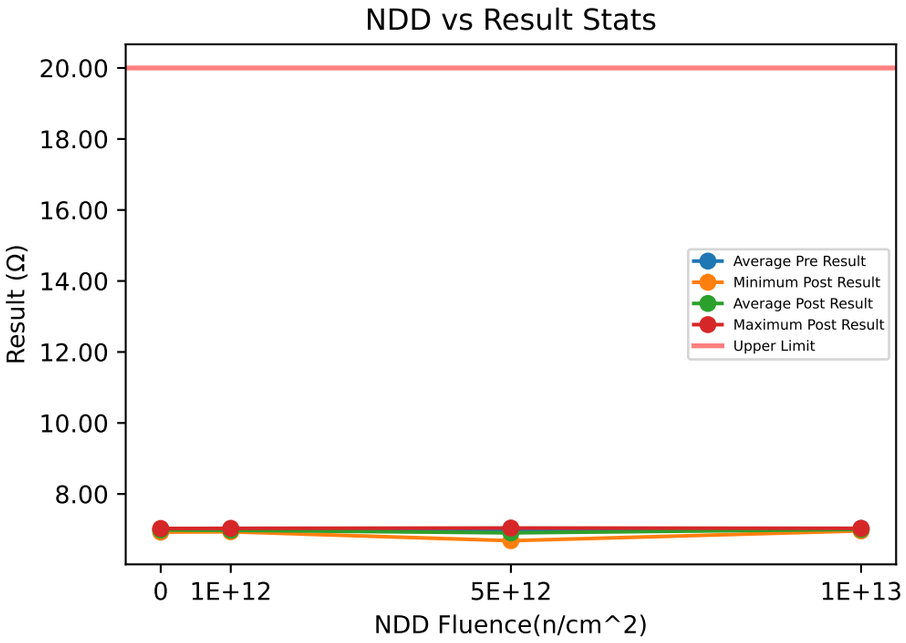
Test Results (Upper Limit = 20.0 (Ω))

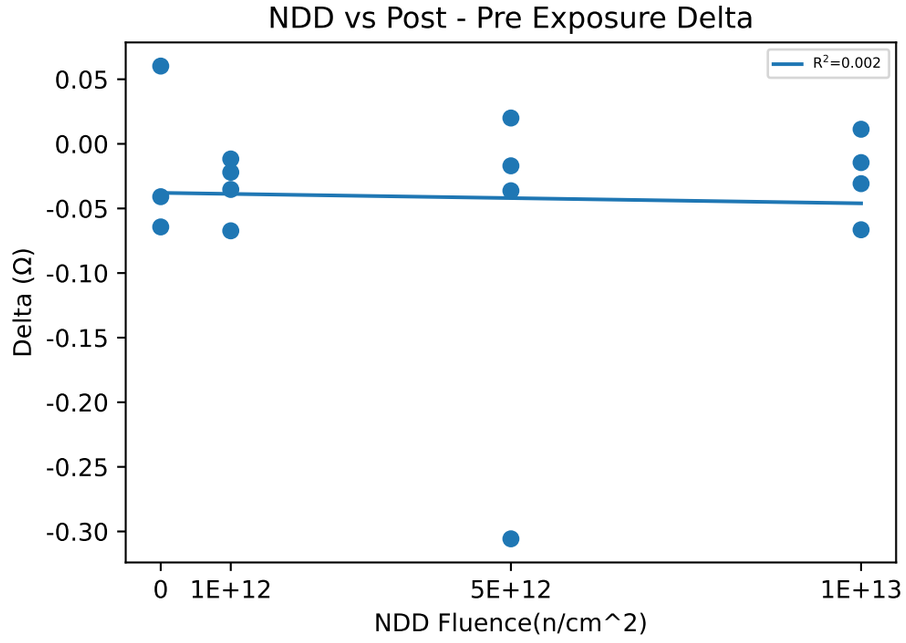
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	7.54	7.5332	-0.0068
304	1e+12	NDD Unbiased	7.5135	7.4908	-0.0227
305	1e+12	NDD Unbiased	7.5575	7.5483	-0.0092
306	1e+12	NDD Unbiased	7.5082	7.4432	-0.065
307	5e+12	NDD Unbiased	7.5265	7.5241	-0.0024
308	5e+12	NDD Unbiased	7.5399	7.5832	0.0433
309	5e+12	NDD Unbiased	7.4742	7.4779	0.0037
310	5e+12	NDD Unbiased	7.4948	7.1379	-0.3569
311	1e+13	NDD Unbiased	7.5438	7.5553	0.0115
312	1e+13	NDD Unbiased	7.5265	7.5138	-0.0127
313	1e+13	NDD Unbiased	7.567	7.5512	-0.0158
314	1e+13	NDD Unbiased	7.5569	7.5111	-0.0458
315	0	Correlation	7.4925	7.4833	-0.0092
316	0	Correlation	7.5766	7.5431	-0.0335
317	0	Correlation	7.556	7.5625	0.0065

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.4925	7.5417	7.5766	0.043836	7.4833	7.5296	7.5625	0.041282	-0.0335	-0.012067	0.0065	0.020153
1e+12	7.5082	7.5298	7.5575	0.02312	7.4432	7.5039	7.5483	0.047209	-0.065	-0.025925	-0.0068	0.026974
5e+12	7.4742	7.5088	7.5399	0.029853	7.1379	7.4308	7.5832	0.19995	-0.3569	-0.078075	0.0433	0.18698
1e+13	7.5265	7.5486	7.567	0.017501	7.5111	7.5328	7.5553	0.023641	-0.0458	-0.0157	0.0115	0.023487

Device Test: 18.21; RESET_RPMOS_HIGH_V





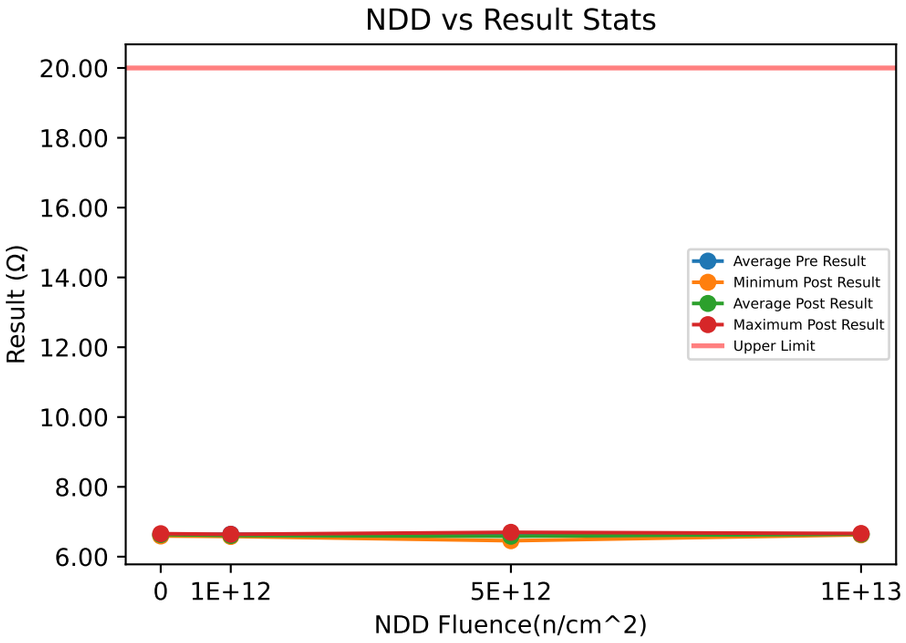
Test Results (Upper Limit = 20.0 (Ω))

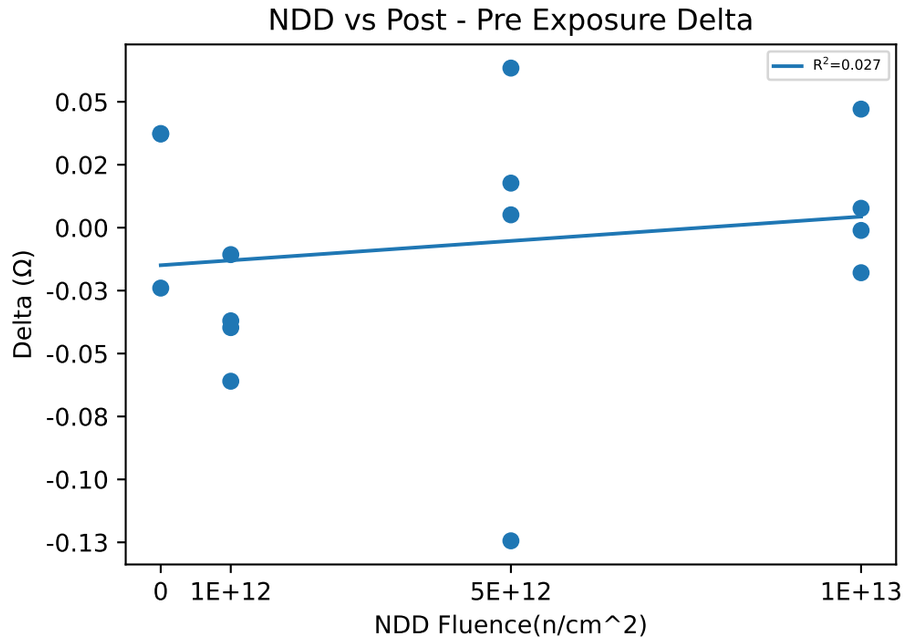
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	6.9979	6.9862	-0.0117
304	1e+12	NDD Unbiased	7.0244	6.9571	-0.0673
305	1e+12	NDD Unbiased	7.0551	7.0331	-0.022
306	1e+12	NDD Unbiased	6.9714	6.9361	-0.0353
307	5e+12	NDD Unbiased	7.0108	6.9745	-0.0363
308	5e+12	NDD Unbiased	7.0216	7.0416	0.02
309	5e+12	NDD Unbiased	6.9374	6.9204	-0.017
310	5e+12	NDD Unbiased	6.9898	6.6841	-0.3057
311	1e+13	NDD Unbiased	7.0414	7.0269	-0.0145
312	1e+13	NDD Unbiased	6.9923	6.9615	-0.0308
313	1e+13	NDD Unbiased	7.0222	7.0335	0.0113
314	1e+13	NDD Unbiased	7.0572	6.9907	-0.0665
315	0	Correlation	6.9901	6.9258	-0.0643
316	0	Correlation	7.0477	7.0068	-0.0409
317	0	Correlation	6.9687	7.0289	0.0602

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.9687	7.0022	7.0477	0.040859	6.9258	6.9872	7.0289	0.054282	-0.0643	-0.015	0.0602	0.066168
1e+12	6.9714	7.0122	7.0551	0.035863	6.9361	6.9781	7.0331	0.042014	-0.0673	-0.034075	-0.0117	0.024165
5e+12	6.9374	6.9899	7.0216	0.037407	6.6841	6.9051	7.0416	0.15548	-0.3057	-0.08475	0.02	0.14914
1e+13	6.9923	7.0283	7.0572	0.027929	6.9615	7.0031	7.0335	0.033541	-0.0665	-0.025125	0.0113	0.032577

Device Test: 18.22; RESET_RPMOS_HIGH_V





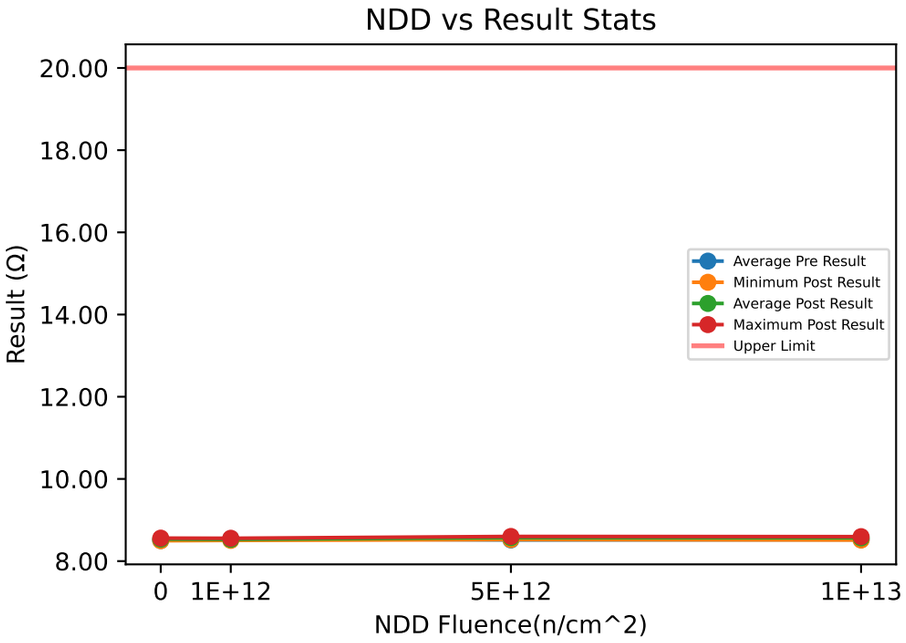
Test Results (Upper Limit = 20.0 (Ω))

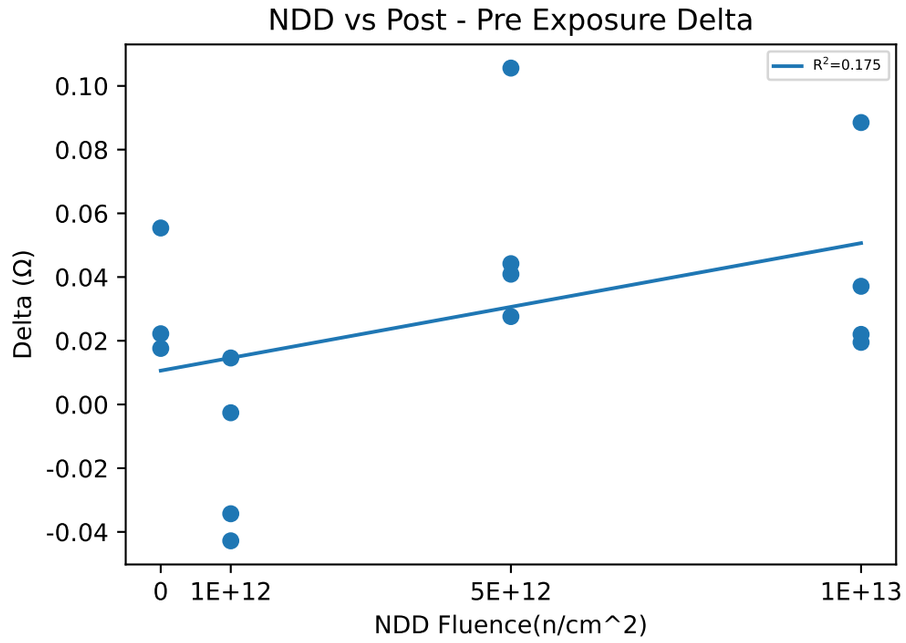
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	6.6345	6.6238	-0.0107
304	1e+12	NDD Unbiased	6.6398	6.5788	-0.061
305	1e+12	NDD Unbiased	6.6812	6.6415	-0.0397
306	1e+12	NDD Unbiased	6.6186	6.5816	-0.037
307	5e+12	NDD Unbiased	6.5891	6.6068	0.0177
308	5e+12	NDD Unbiased	6.6343	6.6977	0.0634
309	5e+12	NDD Unbiased	6.5767	6.5818	0.0051
310	5e+12	NDD Unbiased	6.5814	6.457	-0.1244
311	1e+13	NDD Unbiased	6.6568	6.6645	0.0077
312	1e+13	NDD Unbiased	6.6157	6.6628	0.0471
313	1e+13	NDD Unbiased	6.6271	6.626	-0.0011
314	1e+13	NDD Unbiased	6.6461	6.6282	-0.0179
315	0	Correlation	6.5552	6.5926	0.0374
316	0	Correlation	6.6737	6.6497	-0.024
317	0	Correlation	6.6213	6.6585	0.0372

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.5552	6.6167	6.6737	0.059382	6.5926	6.6336	6.6585	0.035779	-0.024	0.016867	0.0374	0.035392
1e+12	6.6186	6.6435	6.6812	0.026683	6.5788	6.6064	6.6415	0.031153	-0.061	-0.0371	-0.0107	0.020615
5e+12	6.5767	6.5954	6.6343	0.026449	6.457	6.5858	6.6977	0.099277	-0.1244	-0.00955	0.0634	0.080559
1e+13	6.6157	6.6364	6.6568	0.018486	6.626	6.6454	6.6645	0.021133	-0.0179	0.00895	0.0471	0.027562

Device Test: 18.23; PWRGD_RPMOS_HIGH_V





Test Results (Upper Limit = 20.0 (Ω))

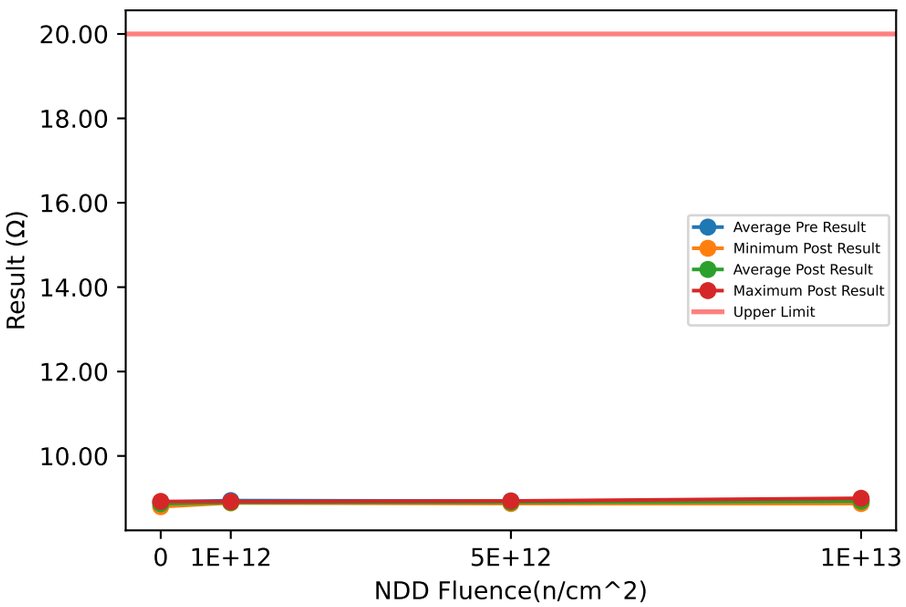
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	8.5066	8.504	-0.0026
304	1e+12	NDD Unbiased	8.5545	8.5202	-0.0343
305	1e+12	NDD Unbiased	8.5773	8.5345	-0.0428
306	1e+12	NDD Unbiased	8.5414	8.556	0.0146
307	5e+12	NDD Unbiased	8.5215	8.5657	0.0442
308	5e+12	NDD Unbiased	8.4943	8.5999	0.1056
309	5e+12	NDD Unbiased	8.4962	8.5238	0.0276
310	5e+12	NDD Unbiased	8.5467	8.5876	0.0409
311	1e+13	NDD Unbiased	8.5486	8.5706	0.022
312	1e+13	NDD Unbiased	8.4753	8.5124	0.0371
313	1e+13	NDD Unbiased	8.576	8.5955	0.0195
314	1e+13	NDD Unbiased	8.4924	8.5809	0.0885
315	0	Correlation	8.474	8.4962	0.0222
316	0	Correlation	8.5297	8.5473	0.0176
317	0	Correlation	8.5041	8.5595	0.0554

Test Statistics (Ω)

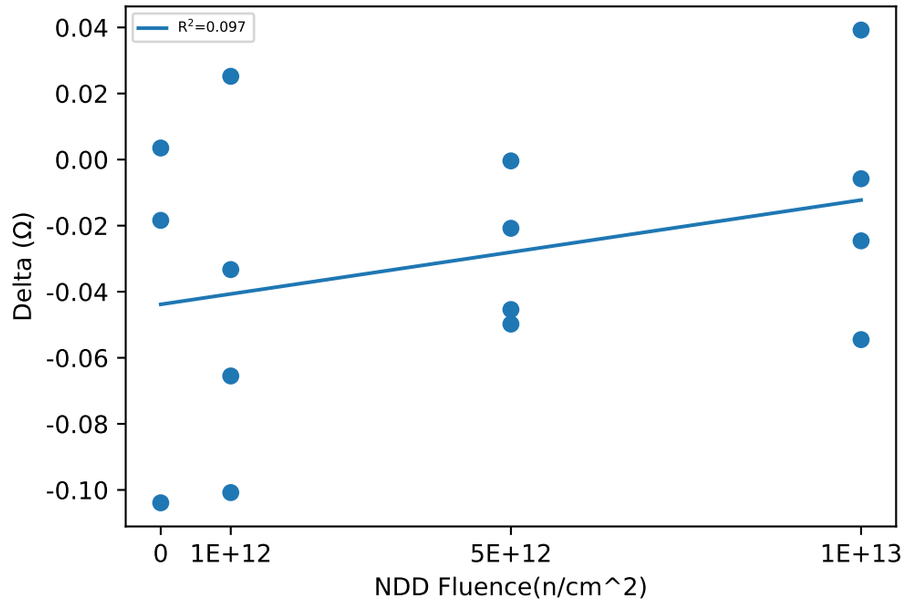
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.474	8.5026	8.5297	0.02788	8.4962	8.5343	8.5595	0.033583	0.0176	0.031733	0.0554	0.020625
1e+12	8.5066	8.545	8.5773	0.029558	8.504	8.5287	8.556	0.02207	-0.0428	-0.016275	0.0146	0.026887
5e+12	8.4943	8.5147	8.5467	0.024689	8.5238	8.5693	8.5999	0.033439	0.0276	0.054575	0.1056	0.034765
1e+13	8.4753	8.5231	8.576	0.047173	8.5124	8.5648	8.5955	0.036428	0.0195	0.041775	0.0885	0.032106

Device Test: 18.24; WDO_RPMOS_HIGH_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 20.0 (Ω))

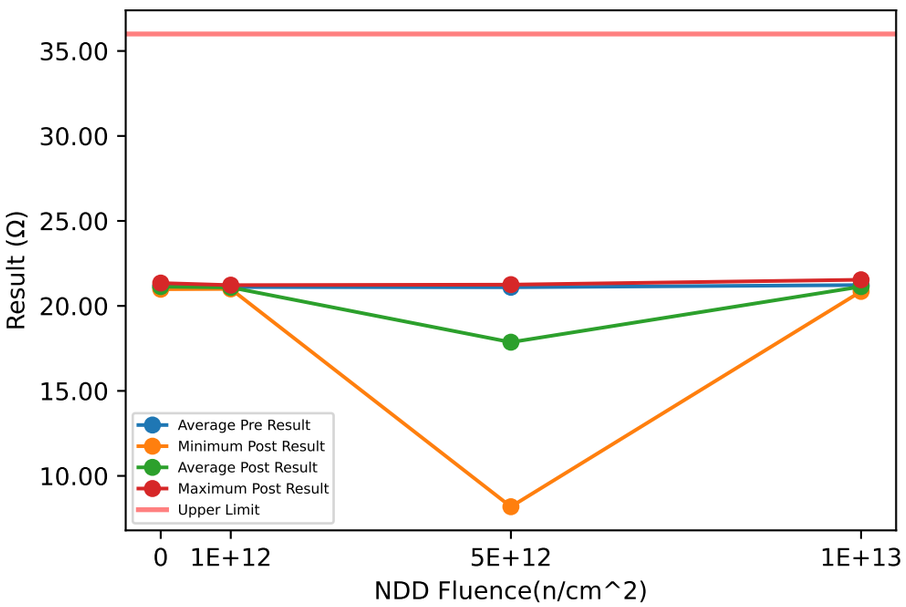
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	8.9197	8.8864	-0.0333
304	1e+12	NDD Unbiased	8.8933	8.9185	0.0252
305	1e+12	NDD Unbiased	8.9559	8.8904	-0.0655
306	1e+12	NDD Unbiased	8.9968	8.896	-0.1008
307	5e+12	NDD Unbiased	8.9	8.8792	-0.0208
308	5e+12	NDD Unbiased	8.971	8.9212	-0.0498
309	5e+12	NDD Unbiased	8.9171	8.8717	-0.0454
310	5e+12	NDD Unbiased	8.9332	8.9328	-0.0004
311	1e+13	NDD Unbiased	8.9351	8.9105	-0.0246
312	1e+13	NDD Unbiased	8.9254	8.8709	-0.0545
313	1e+13	NDD Unbiased	9.0022	8.9964	-0.0058
314	1e+13	NDD Unbiased	8.8869	8.9261	0.0392
315	0	Correlation	8.9003	8.7964	-0.1039
316	0	Correlation	8.9401	8.9217	-0.0184
317	0	Correlation	8.8774	8.8809	0.0035

Test Statistics (Ω)

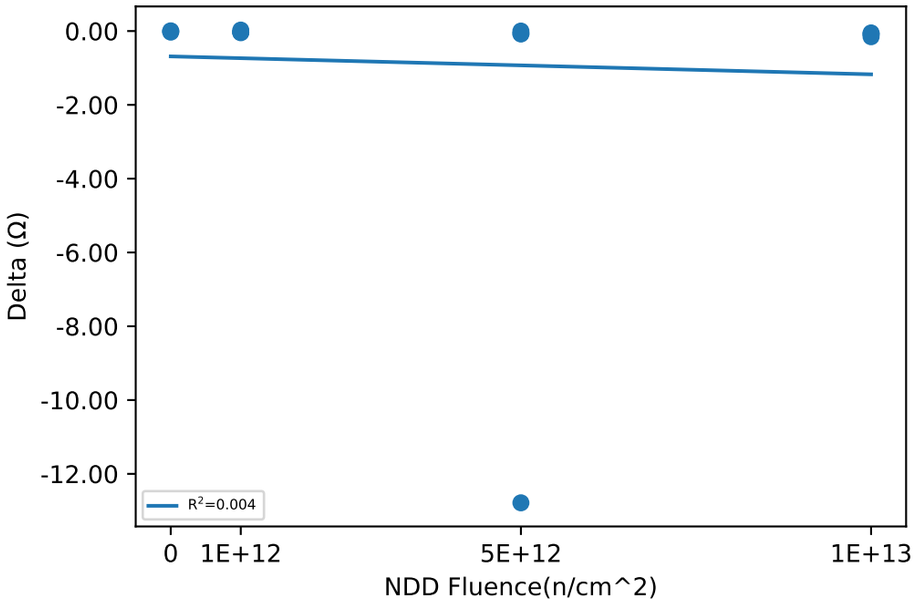
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.8774	8.9059	8.9401	0.031727	8.7964	8.8663	8.9217	0.063907	-0.1039	-0.0396	0.0035	0.056752
1e+12	8.8933	8.9414	8.9968	0.044959	8.8864	8.8978	8.9185	0.014335	-0.1008	-0.0436	0.0252	0.053513
5e+12	8.9	8.9303	8.971	0.030316	8.8717	8.9012	8.9328	0.030292	-0.0498	-0.0291	-0.0004	0.022998
1e+13	8.8869	8.9374	9.0022	0.047953	8.8709	8.926	8.9964	0.052385	-0.0545	-0.011425	0.0392	0.039258

Device Test: 18.25; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



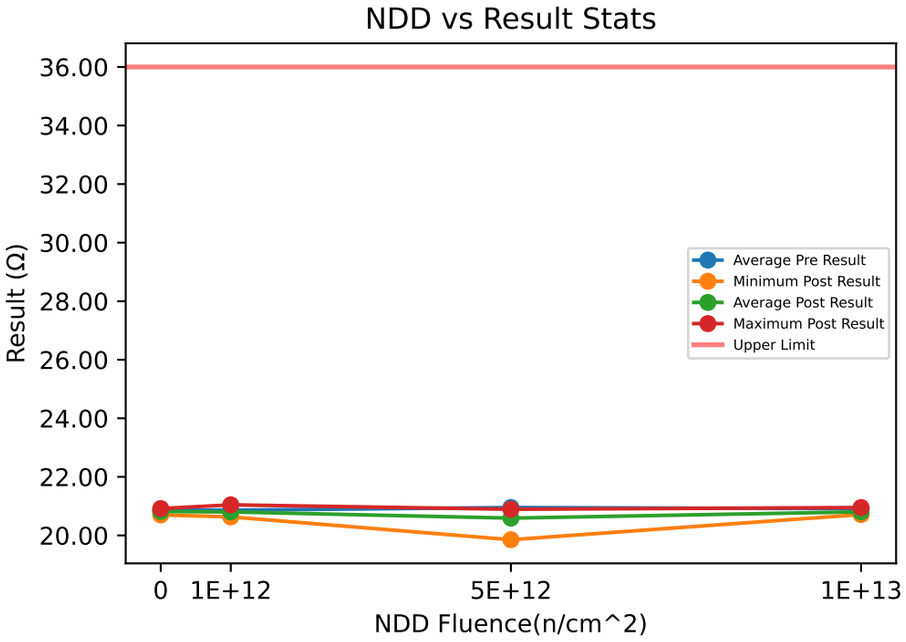
Test Results (Upper Limit = 36.0 (Ω))

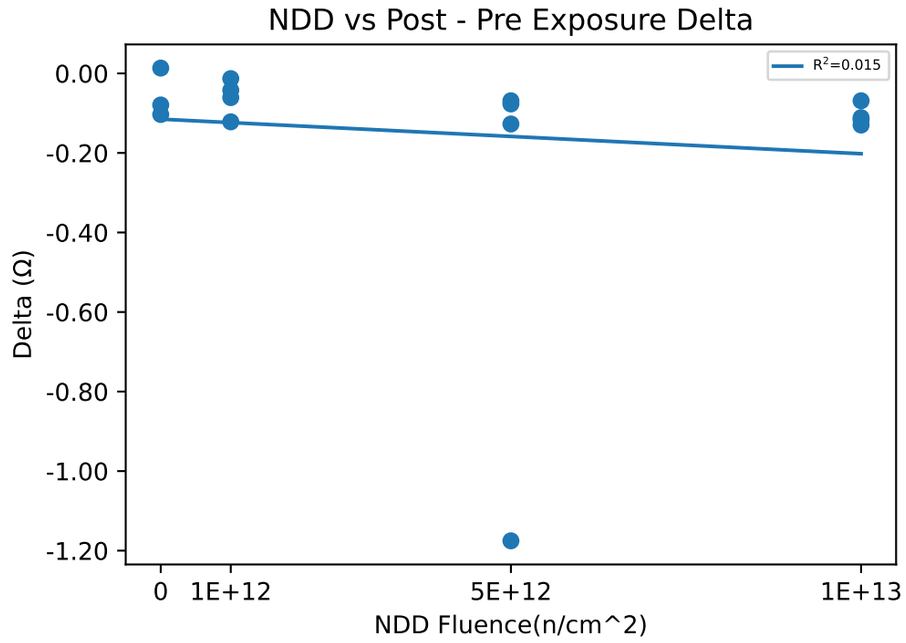
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	21.098	21.069	-0.0291
304	1e+12	NDD Unbiased	21.092	21.061	-0.0317
305	1e+12	NDD Unbiased	21.196	21.223	0.0267
306	1e+12	NDD Unbiased	21.045	21	-0.045
307	5e+12	NDD Unbiased	21.108	21.042	-0.0662
308	5e+12	NDD Unbiased	21.331	21.252	-0.0795
309	5e+12	NDD Unbiased	20.981	20.981	0.0001
310	5e+12	NDD Unbiased	20.97	8.1854	-12.785
311	1e+13	NDD Unbiased	21.18	21.095	-0.0848
312	1e+13	NDD Unbiased	20.936	20.854	-0.0822
313	1e+13	NDD Unbiased	21.692	21.538	-0.1538
314	1e+13	NDD Unbiased	21.103	21.053	-0.0503
315	0	Correlation	21.01	20.981	-0.0291
316	0	Correlation	21.35	21.345	-0.0051
317	0	Correlation	21.071	21.077	0.0054

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	21.01	21.144	21.35	0.18108	20.981	21.134	21.345	0.18854	-0.0291	-0.0096	0.0054	0.017685
1e+12	21.045	21.108	21.196	0.063495	21	21.088	21.223	0.094962	-0.045	-0.019775	0.0267	0.031756
5e+12	20.97	21.098	21.331	0.16788	8.1854	17.865	21.252	6.4542	-12.785	-3.2326	0.0001	6.3683
1e+13	20.936	21.228	21.692	0.32598	20.854	21.135	21.538	0.28883	-0.1538	-0.092775	-0.0503	0.043603

Device Test: 18.26; RESET_RNMOS





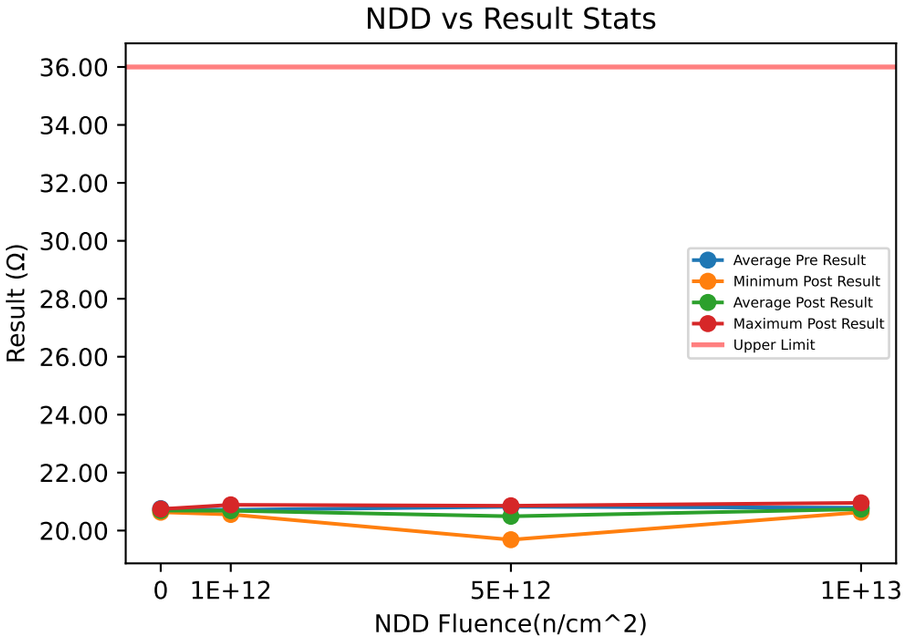
Test Results (Upper Limit = 36.0 (Ω))

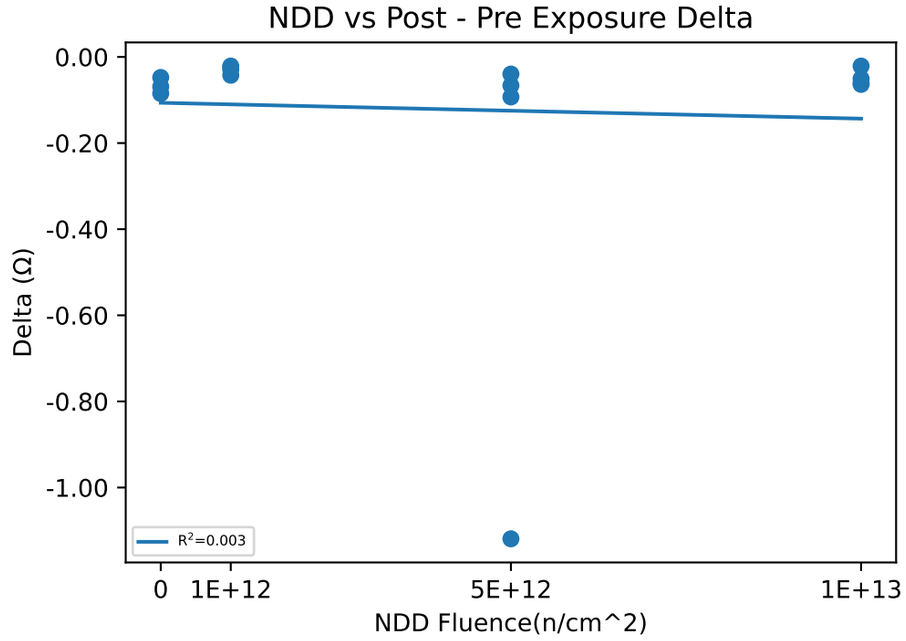
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	20.694	20.633	-0.0608
304	1e+12	NDD Unbiased	20.888	20.766	-0.1218
305	1e+12	NDD Unbiased	20.808	20.766	-0.0422
306	1e+12	NDD Unbiased	21.058	21.044	-0.0131
307	5e+12	NDD Unbiased	20.875	20.798	-0.0768
308	5e+12	NDD Unbiased	20.946	20.819	-0.1272
309	5e+12	NDD Unbiased	20.962	20.893	-0.0688
310	5e+12	NDD Unbiased	21.028	19.853	-1.1753
311	1e+13	NDD Unbiased	20.864	20.747	-0.1166
312	1e+13	NDD Unbiased	20.824	20.713	-0.1113
313	1e+13	NDD Unbiased	21.081	20.952	-0.1298
314	1e+13	NDD Unbiased	20.877	20.808	-0.0688
315	0	Correlation	20.803	20.7	-0.1033
316	0	Correlation	20.912	20.832	-0.0794
317	0	Correlation	20.904	20.917	0.0134

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.803	20.873	20.912	0.060664	20.7	20.816	20.917	0.10967	-0.1033	-0.056433	0.0134	0.061647
1e+12	20.694	20.862	21.058	0.15281	20.633	20.802	21.044	0.17311	-0.1218	-0.059475	-0.0131	0.045954
5e+12	20.875	20.953	21.028	0.063182	19.853	20.591	20.893	0.49345	-1.1753	-0.36203	-0.0688	0.5428
1e+13	20.824	20.912	21.081	0.1154	20.713	20.805	20.952	0.10541	-0.1298	-0.10663	-0.0688	0.026389

Device Test: 18.27; RESET_RNMOS





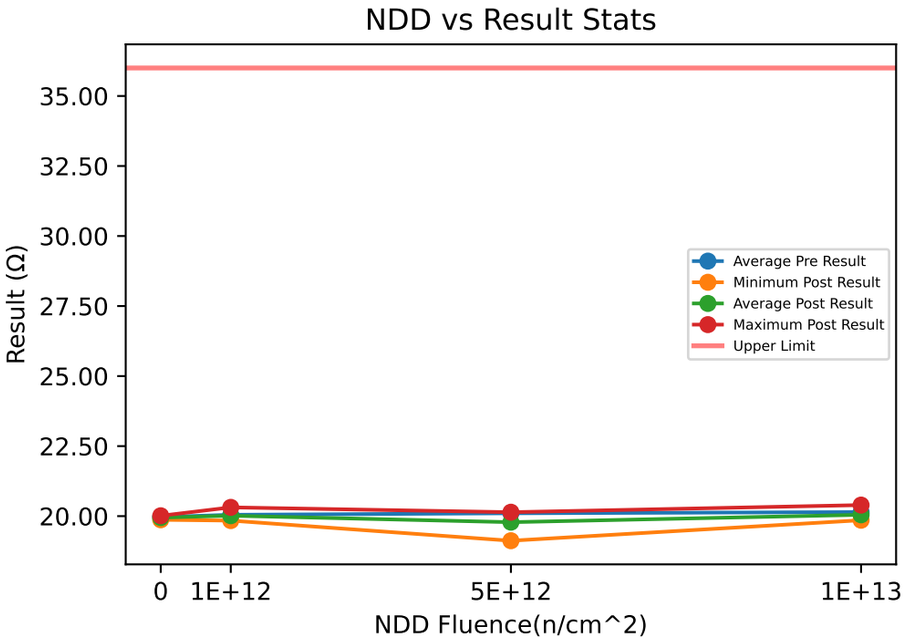
Test Results (Upper Limit = 36.0 (Ω))

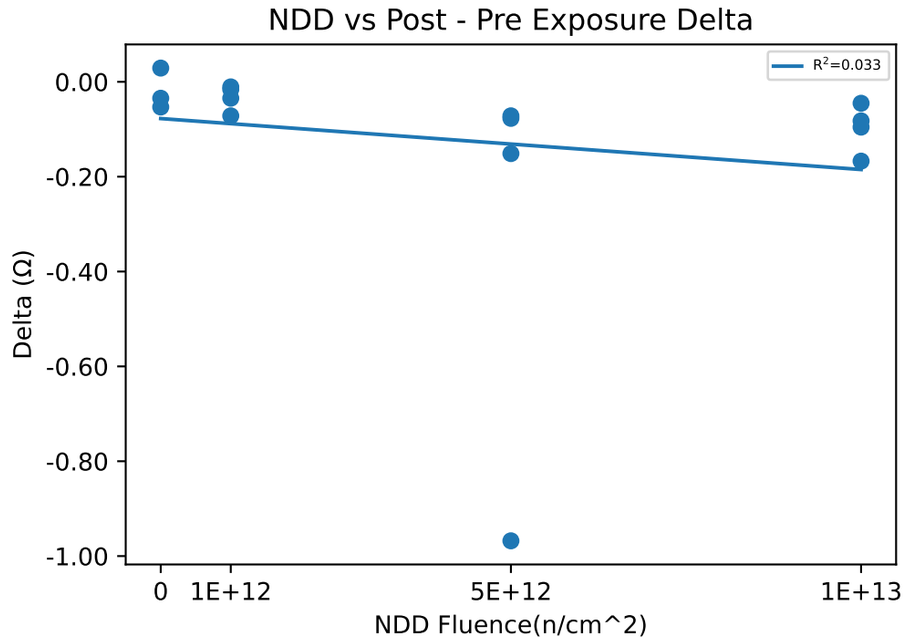
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	20.58	20.556	-0.0239
304	1e+12	NDD Unbiased	20.594	20.564	-0.0292
305	1e+12	NDD Unbiased	20.753	20.732	-0.0212
306	1e+12	NDD Unbiased	20.93	20.888	-0.0425
307	5e+12	NDD Unbiased	20.782	20.689	-0.0929
308	5e+12	NDD Unbiased	20.808	20.742	-0.0663
309	5e+12	NDD Unbiased	20.896	20.856	-0.0398
310	5e+12	NDD Unbiased	20.803	19.684	-1.1191
311	1e+13	NDD Unbiased	20.726	20.665	-0.061
312	1e+13	NDD Unbiased	20.718	20.697	-0.0212
313	1e+13	NDD Unbiased	21.007	20.957	-0.0504
314	1e+13	NDD Unbiased	20.697	20.633	-0.0637
315	0	Correlation	20.782	20.697	-0.0849
316	0	Correlation	20.79	20.742	-0.0477
317	0	Correlation	20.702	20.633	-0.069

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.702	20.758	20.79	0.048399	20.633	20.691	20.742	0.054664	-0.0849	-0.0672	-0.0477	0.018665
1e+12	20.58	20.714	20.93	0.16401	20.556	20.685	20.888	0.15749	-0.0425	-0.0292	-0.0212	0.0094689
5e+12	20.782	20.822	20.896	0.050369	19.684	20.493	20.856	0.54369	-1.1191	-0.32952	-0.0398	0.52683
1e+13	20.697	20.787	21.007	0.14727	20.633	20.738	20.957	0.14817	-0.0637	-0.049075	-0.0212	0.01945

Device Test: 18.28; RESET_RNMOS





Test Results (Upper Limit = 36.0 (Ω))

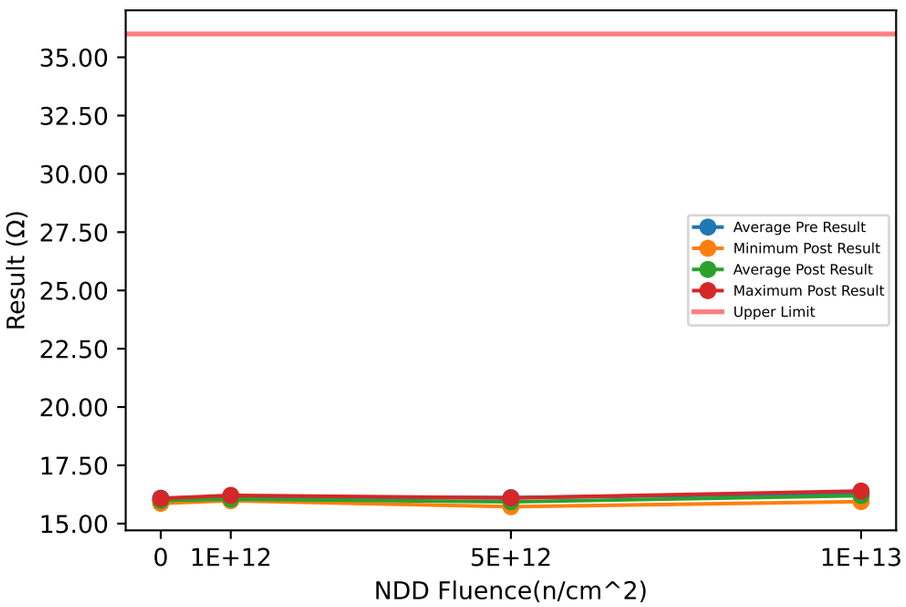
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.875	19.841	-0.0345
304	1e+12	NDD Unbiased	20.034	19.963	-0.0717
305	1e+12	NDD Unbiased	19.955	19.944	-0.0107
306	1e+12	NDD Unbiased	20.329	20.313	-0.016
307	5e+12	NDD Unbiased	20.085	19.933	-0.1513
308	5e+12	NDD Unbiased	20.018	19.942	-0.077
309	5e+12	NDD Unbiased	20.212	20.14	-0.0717
310	5e+12	NDD Unbiased	20.09	19.122	-0.9678
311	1e+13	NDD Unbiased	20.021	19.854	-0.1672
312	1e+13	NDD Unbiased	20.048	20.003	-0.0452
313	1e+13	NDD Unbiased	20.477	20.395	-0.0823
314	1e+13	NDD Unbiased	20.034	19.939	-0.0955
315	0	Correlation	20.013	19.96	-0.0531
316	0	Correlation	20.048	20.013	-0.0346
317	0	Correlation	19.841	19.87	0.029

Test Statistics (Ω)

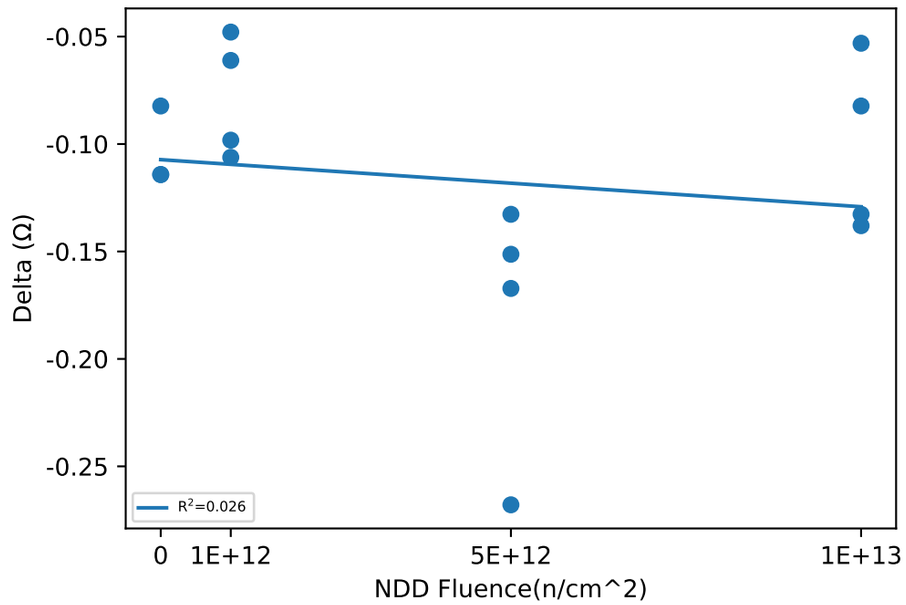
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.841	19.967	20.048	0.11079	19.87	19.948	20.013	0.072401	-0.0531	-0.019567	0.029	0.043065
1e+12	19.875	20.048	20.329	0.19788	19.841	20.015	20.313	0.20552	-0.0717	-0.033225	-0.0107	0.027605
5e+12	20.018	20.101	20.212	0.080639	19.122	19.784	20.14	0.45165	-0.9678	-0.31695	-0.0717	0.43542
1e+13	20.021	20.145	20.477	0.2216	19.854	20.048	20.395	0.23936	-0.1672	-0.09755	-0.0452	0.051083

Device Test: 18.29; PWRGD_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

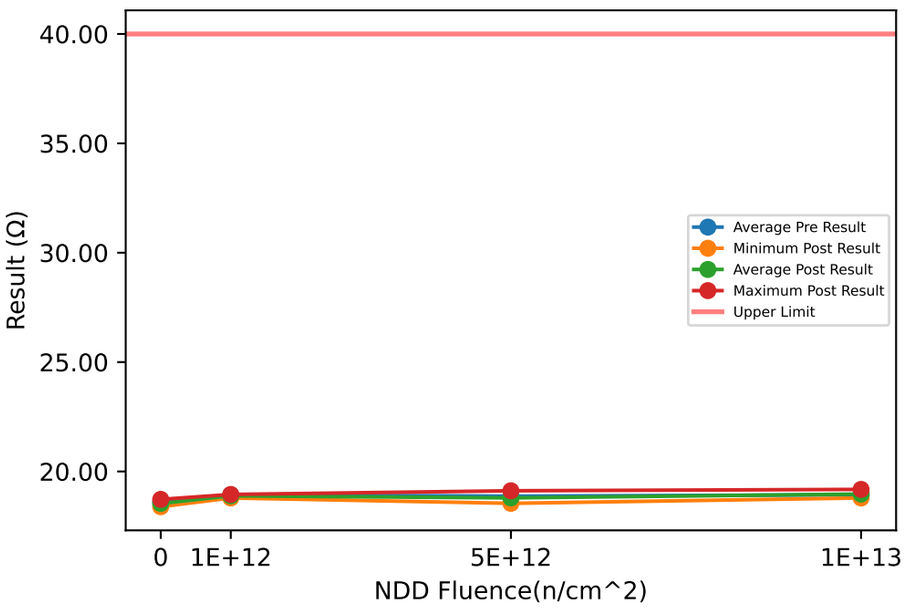
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	16.074	16.013	-0.0611
304	1e+12	NDD Unbiased	16.087	15.981	-0.1062
305	1e+12	NDD Unbiased	16.047	15.999	-0.0479
306	1e+12	NDD Unbiased	16.31	16.212	-0.0982
307	5e+12	NDD Unbiased	16.175	16.023	-0.1513
308	5e+12	NDD Unbiased	16.233	16.1	-0.1327
309	5e+12	NDD Unbiased	16.058	15.891	-0.1672
310	5e+12	NDD Unbiased	15.992	15.724	-0.2679
311	1e+13	NDD Unbiased	16.222	16.084	-0.138
312	1e+13	NDD Unbiased	15.997	15.944	-0.0531
313	1e+13	NDD Unbiased	16.498	16.366	-0.1327
314	1e+13	NDD Unbiased	16.48	16.397	-0.0823
315	0	Correlation	15.984	15.87	-0.1142
316	0	Correlation	16.161	16.079	-0.0823
317	0	Correlation	16.132	16.018	-0.1142

Test Statistics (Ω)

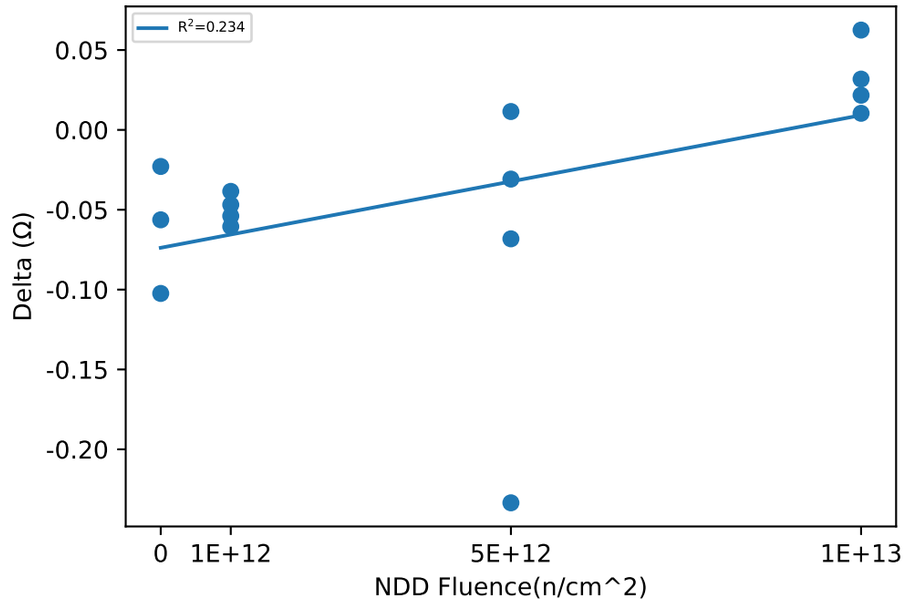
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	15.984	16.093	16.161	0.095255	15.87	15.989	16.079	0.10775	-0.1142	-0.10357	-0.0823	0.018417
1e+12	16.047	16.13	16.31	0.12133	15.981	16.051	16.212	0.10776	-0.1062	-0.07835	-0.0479	0.028251
5e+12	15.992	16.114	16.233	0.10945	15.724	15.935	16.1	0.16502	-0.2679	-0.17978	-0.1327	0.060418
1e+13	15.997	16.299	16.498	0.2376	15.944	16.198	16.397	0.22004	-0.138	-0.10153	-0.0531	0.040894

Device Test: 18.3; RESET_RPMOS_LOW_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 40.0 (Ω))

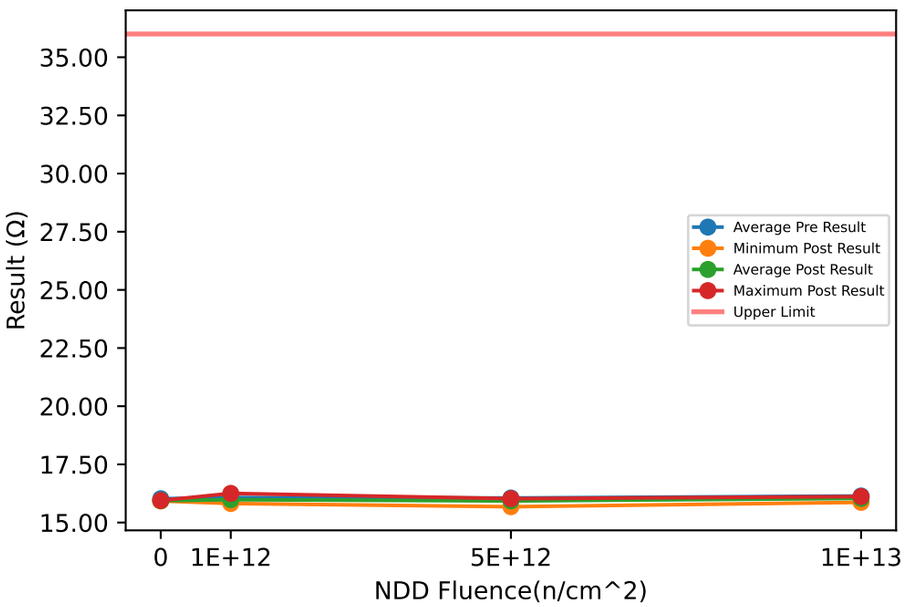
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	18.902	18.863	-0.0385
304	1e+12	NDD Unbiased	18.995	18.948	-0.0469
305	1e+12	NDD Unbiased	18.994	18.94	-0.0539
306	1e+12	NDD Unbiased	18.847	18.787	-0.0605
307	5e+12	NDD Unbiased	18.808	18.777	-0.0308
308	5e+12	NDD Unbiased	19.105	19.117	0.0115
309	5e+12	NDD Unbiased	18.793	18.724	-0.0682
310	5e+12	NDD Unbiased	18.776	18.542	-0.2335
311	1e+13	NDD Unbiased	18.766	18.788	0.0217
312	1e+13	NDD Unbiased	18.872	18.904	0.0318
313	1e+13	NDD Unbiased	19.117	19.179	0.0625
314	1e+13	NDD Unbiased	18.983	18.994	0.0104
315	0	Correlation	18.525	18.502	-0.0229
316	0	Correlation	18.826	18.724	-0.1024
317	0	Correlation	18.444	18.388	-0.0563

Test Statistics (Ω)

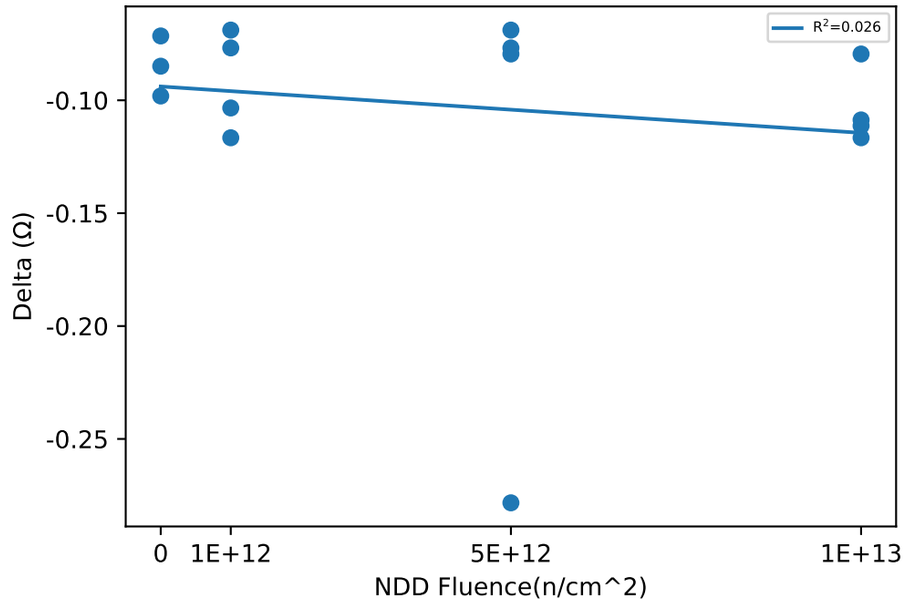
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.444	18.598	18.826	0.2013	18.388	18.538	18.724	0.17076	-0.1024	-0.060533	-0.0229	0.039919
1e+12	18.847	18.935	18.995	0.072933	18.787	18.885	18.948	0.075752	-0.0605	-0.04995	-0.0385	0.0094395
5e+12	18.776	18.87	19.105	0.15711	18.542	18.79	19.117	0.23984	-0.2335	-0.08025	0.0115	0.10723
1e+13	18.766	18.935	19.117	0.15052	18.788	18.966	19.179	0.16531	0.0104	0.0316	0.0625	0.022378

Device Test: 18.30; WDO_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

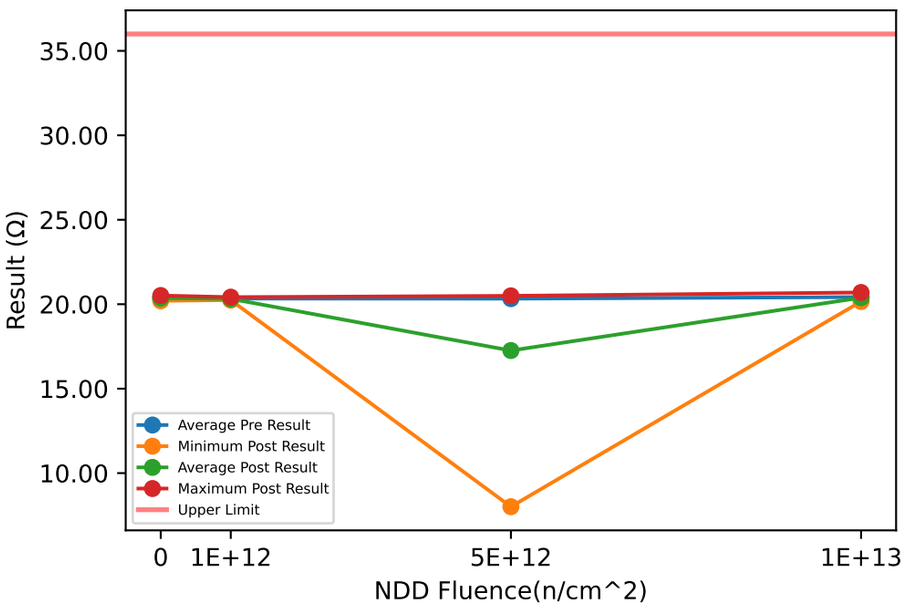
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	15.921	15.818	-0.1034
304	1e+12	NDD Unbiased	15.94	15.871	-0.0689
305	1e+12	NDD Unbiased	16.101	15.985	-0.1166
306	1e+12	NDD Unbiased	16.329	16.252	-0.0768
307	5e+12	NDD Unbiased	16.107	16.027	-0.0795
308	5e+12	NDD Unbiased	16.088	16.019	-0.0689
309	5e+12	NDD Unbiased	16.064	15.987	-0.0768
310	5e+12	NDD Unbiased	15.958	15.68	-0.2783
311	1e+13	NDD Unbiased	15.947	15.868	-0.0795
312	1e+13	NDD Unbiased	16.186	16.075	-0.1113
313	1e+13	NDD Unbiased	16.226	16.117	-0.1087
314	1e+13	NDD Unbiased	16.202	16.085	-0.1166
315	0	Correlation	16.046	15.947	-0.0981
316	0	Correlation	16.024	15.94	-0.0849
317	0	Correlation	15.998	15.926	-0.0715

Test Statistics (Ω)

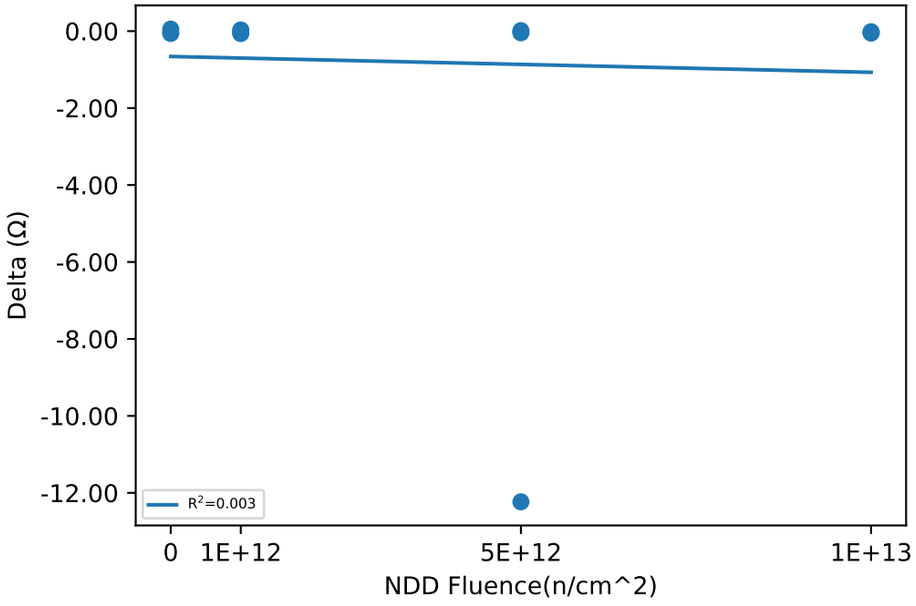
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	15.998	16.023	16.046	0.023951	15.926	15.938	15.947	0.010706	-0.0981	-0.084833	-0.0715	0.0133
1e+12	15.921	16.073	16.329	0.18913	15.818	15.981	16.252	0.19365	-0.1166	-0.091425	-0.0689	0.022349
5e+12	15.958	16.054	16.107	0.06636	15.68	15.928	16.027	0.16655	-0.2783	-0.12587	-0.0689	0.10172
1e+13	15.947	16.14	16.226	0.12957	15.868	16.036	16.117	0.11362	-0.1166	-0.10402	-0.0795	0.016677

Device Test: 18.31; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



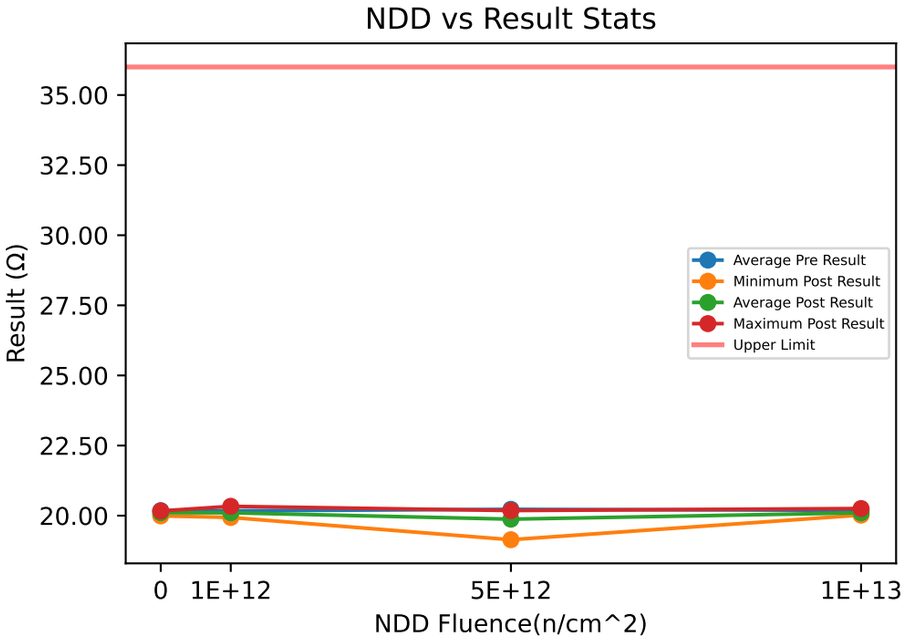
Test Results (Upper Limit = 36.0 (Ω))

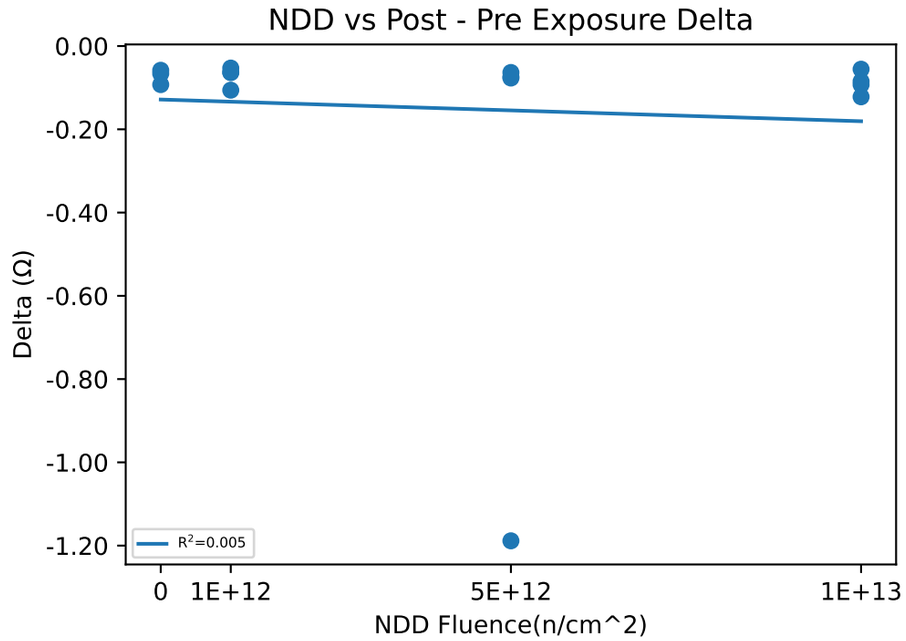
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	20.336	20.286	-0.0503
304	1e+12	NDD Unbiased	20.307	20.243	-0.0636
305	1e+12	NDD Unbiased	20.397	20.418	0.0214
306	1e+12	NDD Unbiased	20.296	20.326	0.0294
307	5e+12	NDD Unbiased	20.341	20.296	-0.045
308	5e+12	NDD Unbiased	20.482	20.495	0.0134
309	5e+12	NDD Unbiased	20.246	20.225	-0.0211
310	5e+12	NDD Unbiased	20.243	8.0102	-12.233
311	1e+13	NDD Unbiased	20.421	20.373	-0.0477
312	1e+13	NDD Unbiased	20.209	20.161	-0.0477
313	1e+13	NDD Unbiased	20.71	20.694	-0.0158
314	1e+13	NDD Unbiased	20.347	20.315	-0.0317
315	0	Correlation	20.224	20.203	-0.0211
316	0	Correlation	20.575	20.514	-0.0609
317	0	Correlation	20.309	20.363	0.0532

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.224	20.37	20.575	0.18274	20.203	20.36	20.514	0.15527	-0.0609	-0.0096	0.0532	0.057913
1e+12	20.296	20.334	20.397	0.045274	20.243	20.318	20.418	0.074777	-0.0636	-0.015775	0.0294	0.047965
5e+12	20.243	20.328	20.482	0.11231	8.0102	17.257	20.495	6.1653	-12.233	-3.0714	0.0134	6.1077
1e+13	20.209	20.422	20.71	0.21157	20.161	20.386	20.694	0.22435	-0.0477	-0.035725	-0.0158	0.015275

Device Test: 18.32; RESET_RNMOS





Test Results (Upper Limit = 36.0 (Ω))

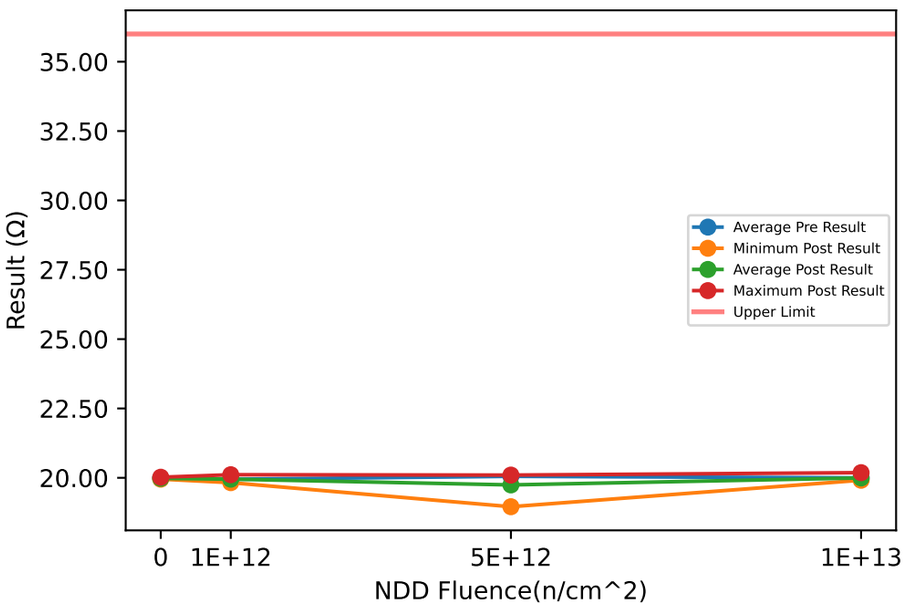
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.988	19.935	-0.0529
304	1e+12	NDD Unbiased	20.174	20.068	-0.106
305	1e+12	NDD Unbiased	20.137	20.073	-0.0635
306	1e+12	NDD Unbiased	20.397	20.333	-0.0634
307	5e+12	NDD Unbiased	20.113	20.039	-0.0741
308	5e+12	NDD Unbiased	20.201	20.137	-0.0635
309	5e+12	NDD Unbiased	20.259	20.182	-0.0768
310	5e+12	NDD Unbiased	20.331	19.142	-1.1885
311	1e+13	NDD Unbiased	20.171	20.049	-0.1219
312	1e+13	NDD Unbiased	20.105	20.02	-0.0848
313	1e+13	NDD Unbiased	20.346	20.254	-0.0927
314	1e+13	NDD Unbiased	20.134	20.079	-0.0556
315	0	Correlation	20.084	19.991	-0.0926
316	0	Correlation	20.235	20.169	-0.0662
317	0	Correlation	20.211	20.153	-0.0582

Test Statistics (Ω)

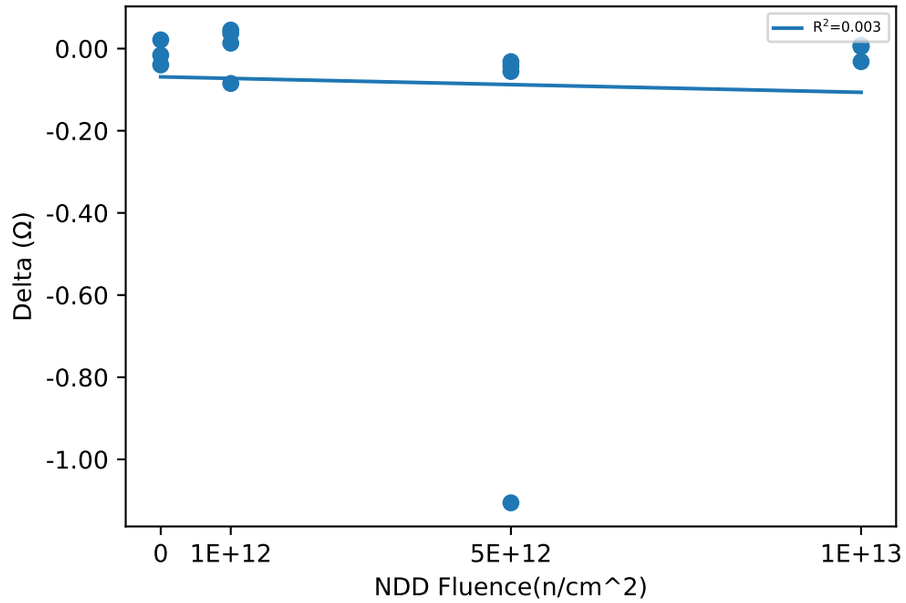
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.084	20.177	20.235	0.081336	19.991	20.104	20.169	0.098327	-0.0926	-0.072333	-0.0582	0.018001
1e+12	19.988	20.174	20.397	0.16886	19.935	20.102	20.333	0.16665	-0.106	-0.07145	-0.0529	0.023564
5e+12	20.113	20.226	20.331	0.092094	19.142	19.875	20.182	0.4923	-1.1885	-0.35073	-0.0635	0.55855
1e+13	20.105	20.189	20.346	0.10824	20.02	20.1	20.254	0.1049	-0.1219	-0.08875	-0.0556	0.027258

Device Test: 18.33; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

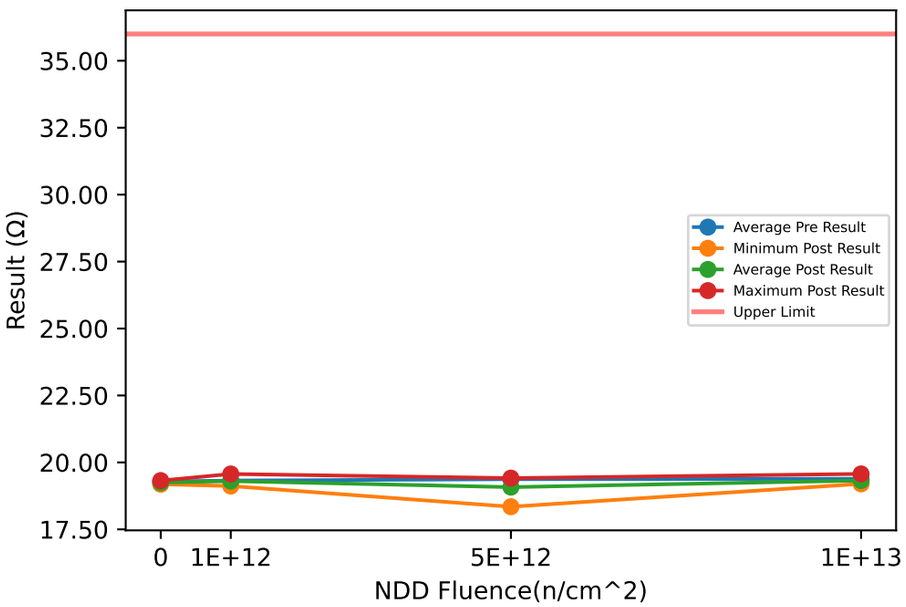
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.78	19.825	0.0451
304	1e+12	NDD Unbiased	19.841	19.854	0.0132
305	1e+12	NDD Unbiased	19.976	20.013	0.0371
306	1e+12	NDD Unbiased	20.196	20.111	-0.0849
307	5e+12	NDD Unbiased	19.979	19.936	-0.0425
308	5e+12	NDD Unbiased	20.04	19.984	-0.0557
309	5e+12	NDD Unbiased	20.13	20.098	-0.0318
310	5e+12	NDD Unbiased	20.063	18.957	-1.1058
311	1e+13	NDD Unbiased	19.931	19.939	0.008
312	1e+13	NDD Unbiased	19.936	19.941	0.0053
313	1e+13	NDD Unbiased	20.217	20.185	-0.0318
314	1e+13	NDD Unbiased	19.907	19.912	0.0053
315	0	Correlation	19.984	19.968	-0.0159
316	0	Correlation	20.061	20.021	-0.0398
317	0	Correlation	19.931	19.952	0.0212

Test Statistics (Ω)

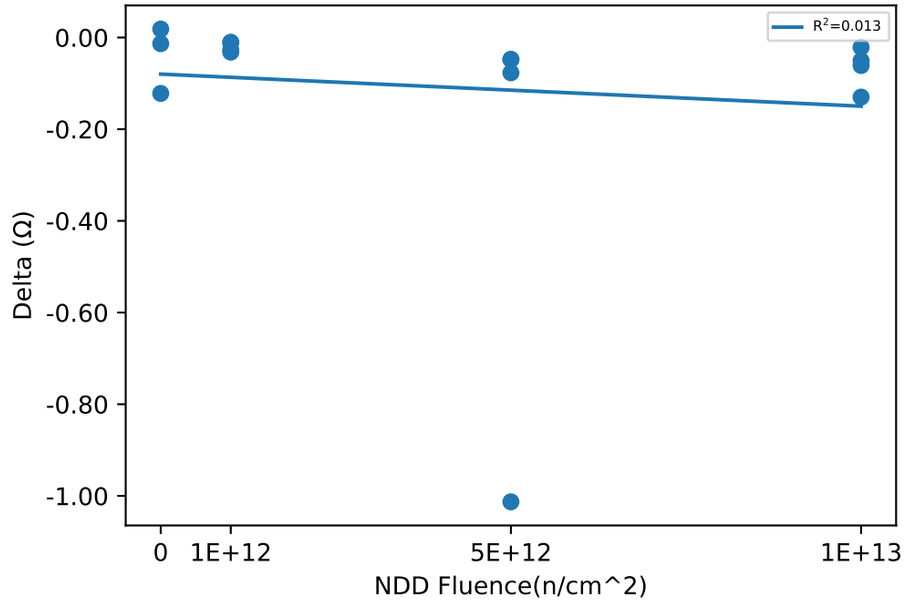
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.931	19.992	20.061	0.065362	19.952	19.98	20.021	0.036116	-0.0398	-0.0115	0.0212	0.030737
1e+12	19.78	19.948	20.196	0.1845	19.825	19.951	20.111	0.13519	-0.0849	0.002625	0.0451	0.059903
5e+12	19.979	20.053	20.13	0.062466	18.957	19.744	20.098	0.52856	-1.1058	-0.30895	-0.0318	0.53132
1e+13	19.907	19.998	20.217	0.14683	19.912	19.994	20.185	0.12796	-0.0318	-0.0033	0.008	0.019043

Device Test: 18.34; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



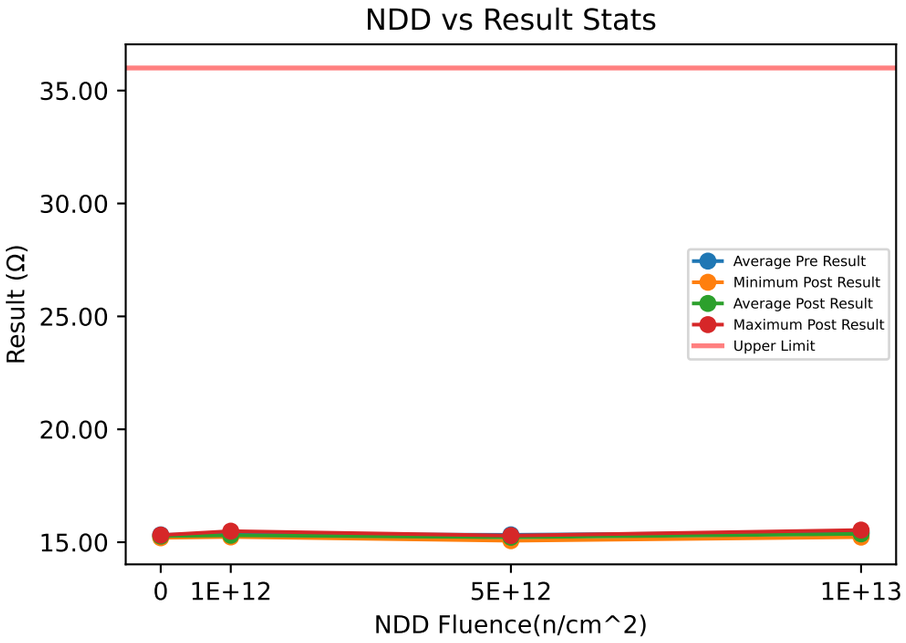
Test Results (Upper Limit = 36.0 (Ω))

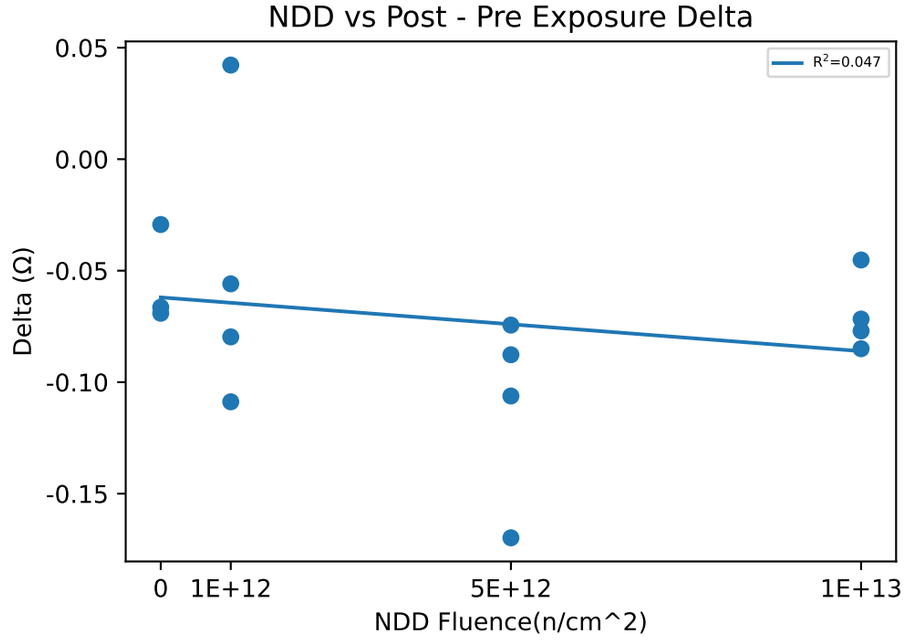
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.149	19.117	-0.0319
304	1e+12	NDD Unbiased	19.287	19.26	-0.0266
305	1e+12	NDD Unbiased	19.276	19.265	-0.0107
306	1e+12	NDD Unbiased	19.578	19.568	-0.0107
307	5e+12	NDD Unbiased	19.337	19.26	-0.077
308	5e+12	NDD Unbiased	19.334	19.287	-0.0478
309	5e+12	NDD Unbiased	19.462	19.414	-0.0479
310	5e+12	NDD Unbiased	19.358	18.346	-1.0129
311	1e+13	NDD Unbiased	19.25	19.199	-0.0505
312	1e+13	NDD Unbiased	19.348	19.287	-0.0611
313	1e+13	NDD Unbiased	19.7	19.57	-0.13
314	1e+13	NDD Unbiased	19.255	19.234	-0.0213
315	0	Correlation	19.356	19.234	-0.122
316	0	Correlation	19.334	19.321	-0.0134
317	0	Correlation	19.168	19.186	0.0184

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.168	19.286	19.356	0.10308	19.186	19.247	19.321	0.06856	-0.122	-0.039	0.0184	0.073618
1e+12	19.149	19.323	19.578	0.1817	19.117	19.303	19.568	0.18965	-0.0319	-0.019975	-0.0107	0.010926
5e+12	19.334	19.373	19.462	0.060173	18.346	19.077	19.414	0.49198	-1.0129	-0.2964	-0.0478	0.47786
1e+13	19.25	19.388	19.7	0.21294	19.199	19.322	19.57	0.16914	-0.13	-0.065725	-0.0213	0.046036

Device Test: 18.35; PWRGD_RNMOS





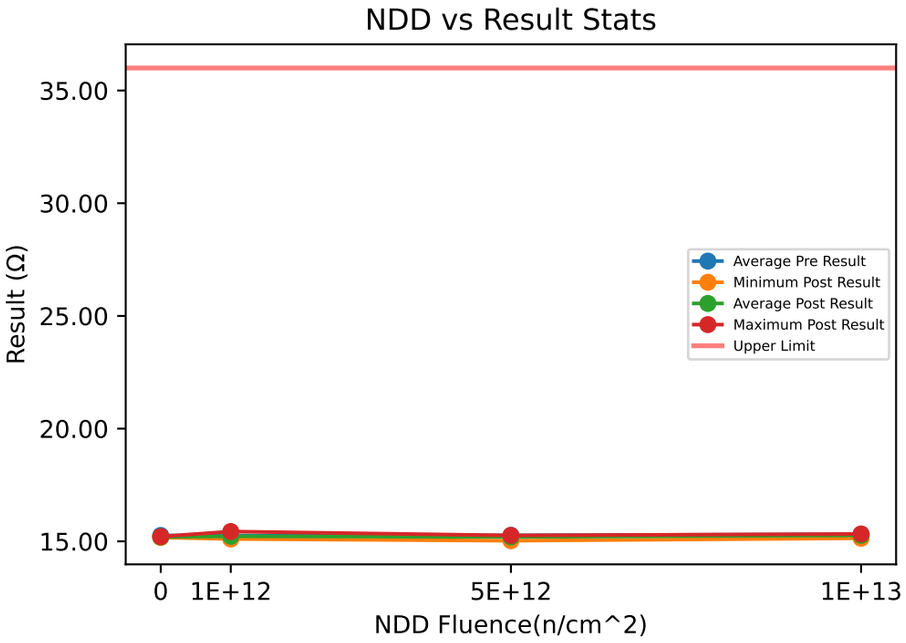
Test Results (Upper Limit = 36.0 (Ω))

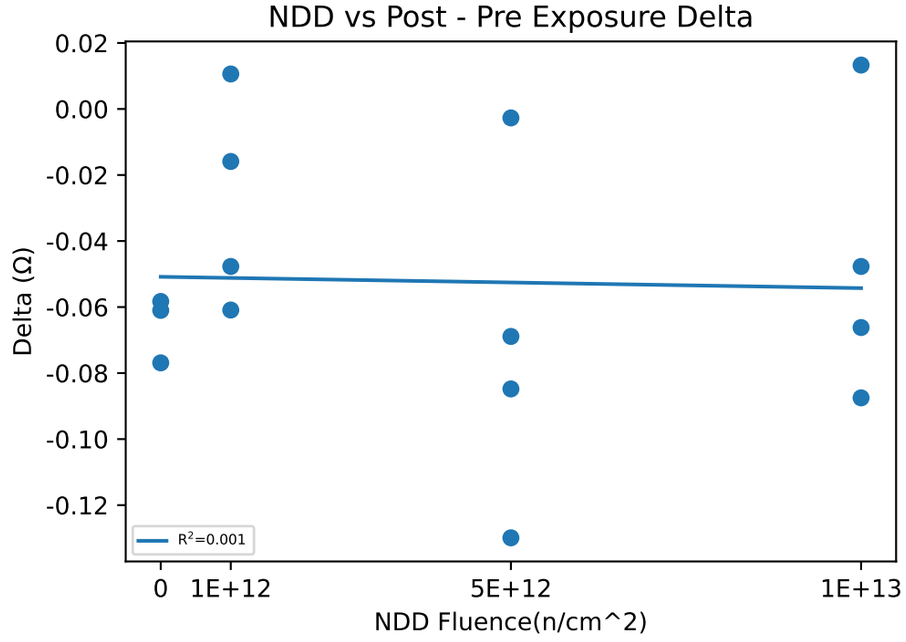
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	15.355	15.246	-0.1088
304	1e+12	NDD Unbiased	15.342	15.262	-0.0797
305	1e+12	NDD Unbiased	15.289	15.233	-0.0559
306	1e+12	NDD Unbiased	15.448	15.49	0.0422
307	5e+12	NDD Unbiased	15.393	15.286	-0.1062
308	5e+12	NDD Unbiased	15.366	15.292	-0.0744
309	5e+12	NDD Unbiased	15.316	15.228	-0.0877
310	5e+12	NDD Unbiased	15.236	15.066	-0.1698
311	1e+13	NDD Unbiased	15.337	15.265	-0.0717
312	1e+13	NDD Unbiased	15.271	15.225	-0.0452
313	1e+13	NDD Unbiased	15.623	15.538	-0.085
314	1e+13	NDD Unbiased	15.528	15.451	-0.077
315	0	Correlation	15.262	15.196	-0.0664
316	0	Correlation	15.345	15.315	-0.0293
317	0	Correlation	15.369	15.3	-0.0691

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	15.262	15.325	15.369	0.055656	15.196	15.27	15.315	0.064778	-0.0691	-0.054933	-0.0293	0.02224
1e+12	15.289	15.359	15.448	0.066185	15.233	15.308	15.49	0.1221	-0.1088	-0.05055	0.0422	0.065508
5e+12	15.236	15.328	15.393	0.06885	15.066	15.218	15.292	0.10523	-0.1698	-0.10952	-0.0744	0.042246
1e+13	15.271	15.44	15.623	0.16394	15.225	15.37	15.538	0.14916	-0.085	-0.069725	-0.0452	0.01724

Device Test: 18.36; WDO_RNMOS





Test Results (Upper Limit = 36.0 (Ω))

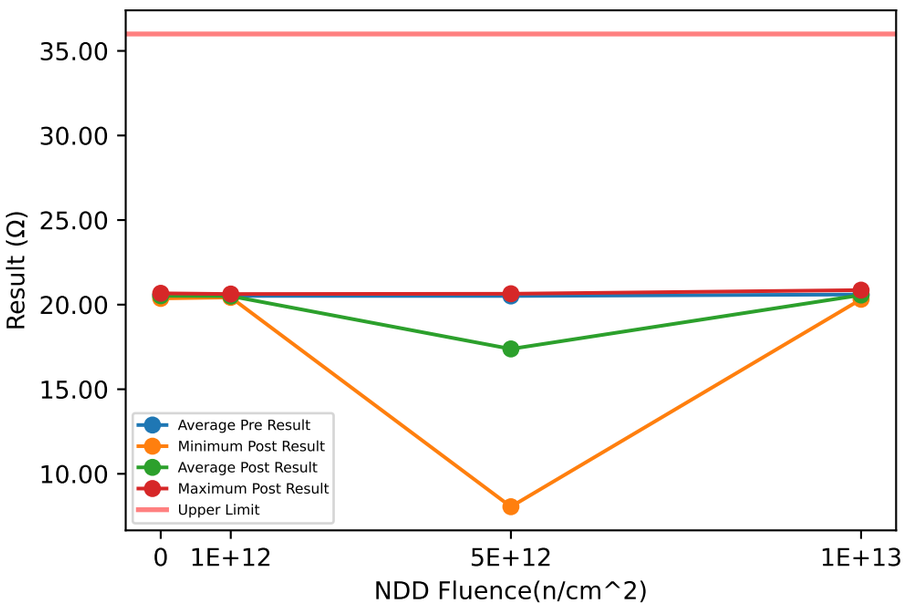
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	15.163	15.115	-0.0477
304	1e+12	NDD Unbiased	15.166	15.105	-0.0609
305	1e+12	NDD Unbiased	15.232	15.242	0.0106
306	1e+12	NDD Unbiased	15.452	15.436	-0.0159
307	5e+12	NDD Unbiased	15.346	15.261	-0.0848
308	5e+12	NDD Unbiased	15.253	15.25	-0.0027
309	5e+12	NDD Unbiased	15.309	15.24	-0.0689
310	5e+12	NDD Unbiased	15.158	15.028	-0.1299
311	1e+13	NDD Unbiased	15.203	15.136	-0.0662
312	1e+13	NDD Unbiased	15.335	15.287	-0.0477
313	1e+13	NDD Unbiased	15.399	15.311	-0.0875
314	1e+13	NDD Unbiased	15.314	15.327	0.0133
315	0	Correlation	15.229	15.171	-0.0583
316	0	Correlation	15.28	15.203	-0.0769
317	0	Correlation	15.274	15.213	-0.061

Test Statistics (Ω)

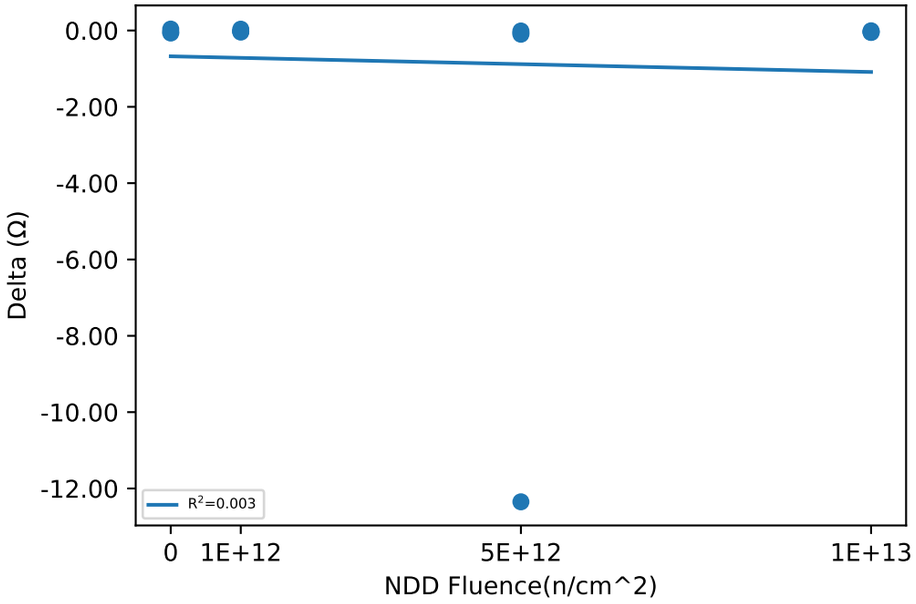
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	15.229	15.261	15.28	0.027696	15.171	15.196	15.213	0.022066	-0.0769	-0.0654	-0.0583	0.01005
1e+12	15.163	15.253	15.452	0.13631	15.105	15.225	15.436	0.1542	-0.0609	-0.028475	0.0106	0.032176
5e+12	15.158	15.266	15.346	0.081825	15.028	15.195	15.261	0.11164	-0.1299	-0.071575	-0.0027	0.052687
1e+13	15.203	15.313	15.399	0.081728	15.136	15.266	15.327	0.087656	-0.0875	-0.047025	0.0133	0.04338

Device Test: 18.37; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

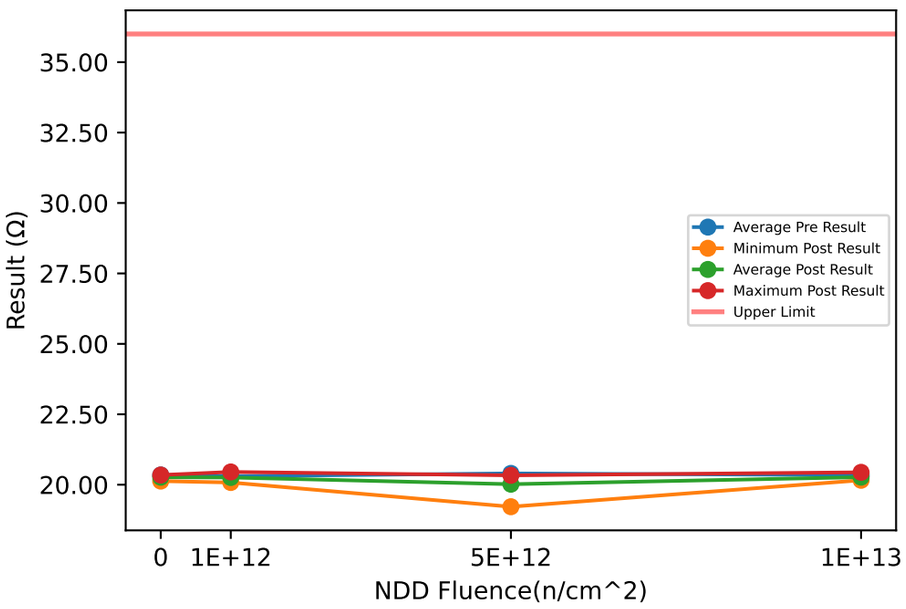
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	20.511	20.469	-0.0423
304	1e+12	NDD Unbiased	20.514	20.493	-0.0211
305	1e+12	NDD Unbiased	20.593	20.628	0.0346
306	1e+12	NDD Unbiased	20.447	20.429	-0.0184
307	5e+12	NDD Unbiased	20.54	20.442	-0.098
308	5e+12	NDD Unbiased	20.657	20.644	-0.0131
309	5e+12	NDD Unbiased	20.45	20.387	-0.0636
310	5e+12	NDD Unbiased	20.405	8.0553	-12.35
311	1e+13	NDD Unbiased	20.596	20.548	-0.0477
312	1e+13	NDD Unbiased	20.344	20.317	-0.0264
313	1e+13	NDD Unbiased	20.909	20.859	-0.0503
314	1e+13	NDD Unbiased	20.551	20.543	-0.0078
315	0	Correlation	20.434	20.368	-0.0663
316	0	Correlation	20.71	20.671	-0.0397
317	0	Correlation	20.498	20.535	0.0372

Test Statistics (Ω)

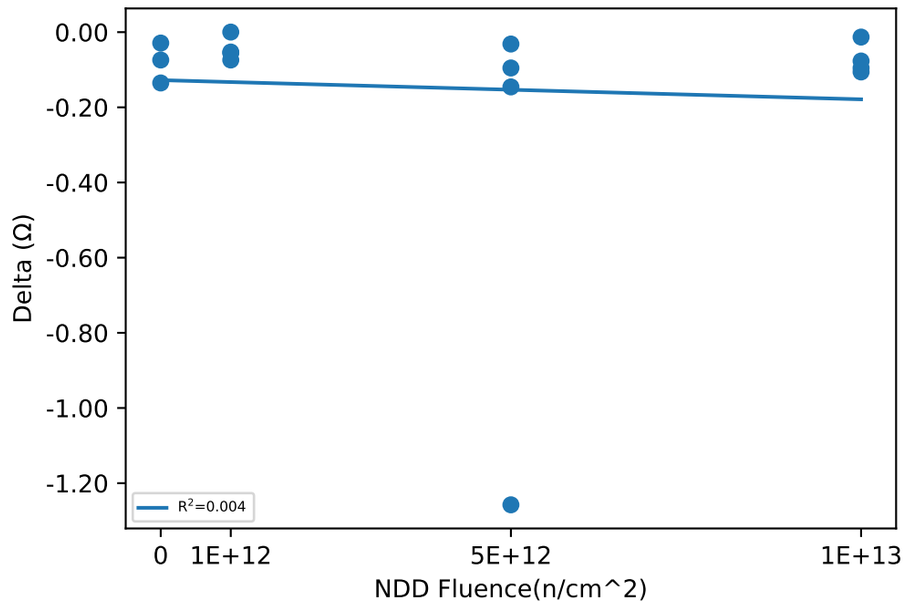
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.434	20.547	20.71	0.14451	20.368	20.524	20.671	0.15158	-0.0663	-0.022933	0.0372	0.053749
1e+12	20.447	20.516	20.593	0.059791	20.429	20.505	20.628	0.086345	-0.0423	-0.0118	0.0346	0.032727
5e+12	20.405	20.513	20.657	0.11125	8.0553	17.382	20.644	6.2188	-12.35	-3.1311	-0.0131	6.1458
1e+13	20.344	20.6	20.909	0.23358	20.317	20.567	20.859	0.22243	-0.0503	-0.03305	-0.0078	0.01995

Device Test: 18.38; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

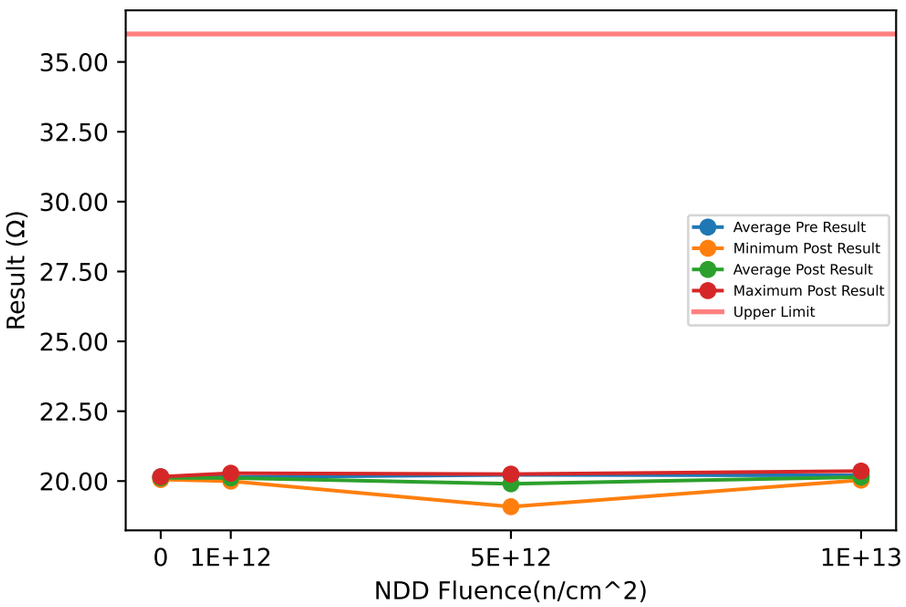
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	20.131	20.079	-0.0529
304	1e+12	NDD Unbiased	20.307	20.233	-0.0741
305	1e+12	NDD Unbiased	20.262	20.262	0.0002
306	1e+12	NDD Unbiased	20.508	20.453	-0.0555
307	5e+12	NDD Unbiased	20.357	20.262	-0.0953
308	5e+12	NDD Unbiased	20.405	20.259	-0.1457
309	5e+12	NDD Unbiased	20.365	20.333	-0.0316
310	5e+12	NDD Unbiased	20.477	19.219	-1.2576
311	1e+13	NDD Unbiased	20.312	20.206	-0.1059
312	1e+13	NDD Unbiased	20.254	20.158	-0.0954
313	1e+13	NDD Unbiased	20.516	20.439	-0.0768
314	1e+13	NDD Unbiased	20.28	20.267	-0.0131
315	0	Correlation	20.264	20.129	-0.1352
316	0	Correlation	20.397	20.323	-0.0741
317	0	Correlation	20.373	20.344	-0.029

Test Statistics (Ω)

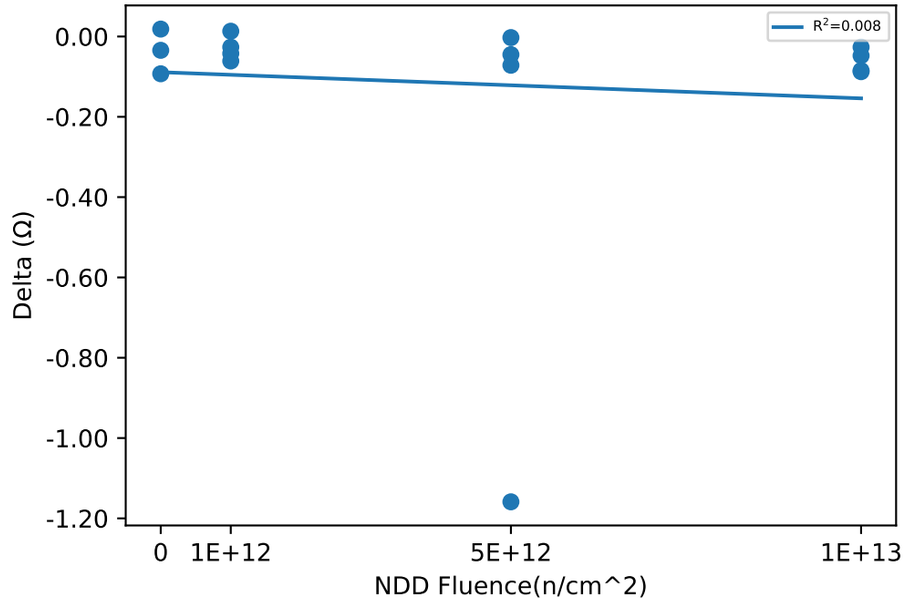
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.264	20.345	20.397	0.070695	20.129	20.265	20.344	0.11846	-0.1352	-0.079433	-0.029	0.053301
1e+12	20.131	20.302	20.508	0.1563	20.079	20.256	20.453	0.15361	-0.0741	-0.045575	0.0002	0.031944
5e+12	20.357	20.401	20.477	0.054609	19.219	20.018	20.333	0.53403	-1.2576	-0.38255	-0.0316	0.58523
1e+13	20.254	20.34	20.516	0.11962	20.158	20.268	20.439	0.1229	-0.1059	-0.0728	-0.0131	0.041579

Device Test: 18.39; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

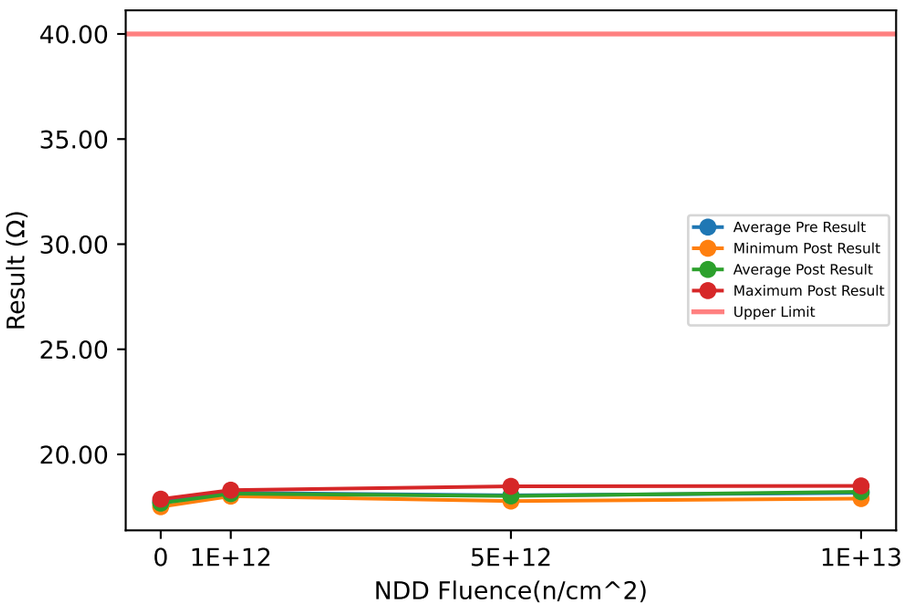
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.984	19.997	0.0132
304	1e+12	NDD Unbiased	20.063	20.021	-0.0424
305	1e+12	NDD Unbiased	20.175	20.148	-0.0265
306	1e+12	NDD Unbiased	20.342	20.281	-0.061
307	5e+12	NDD Unbiased	20.154	20.108	-0.0451
308	5e+12	NDD Unbiased	20.241	20.169	-0.0716
309	5e+12	NDD Unbiased	20.252	20.249	-0.0027
310	5e+12	NDD Unbiased	20.241	19.082	-1.1588
311	1e+13	NDD Unbiased	20.172	20.087	-0.0848
312	1e+13	NDD Unbiased	20.114	20.087	-0.0265
313	1e+13	NDD Unbiased	20.405	20.358	-0.0477
314	1e+13	NDD Unbiased	20.122	20.034	-0.0876
315	0	Correlation	20.138	20.156	0.0185
316	0	Correlation	20.23	20.138	-0.0928
317	0	Correlation	20.09	20.055	-0.0344

Test Statistics (Ω)

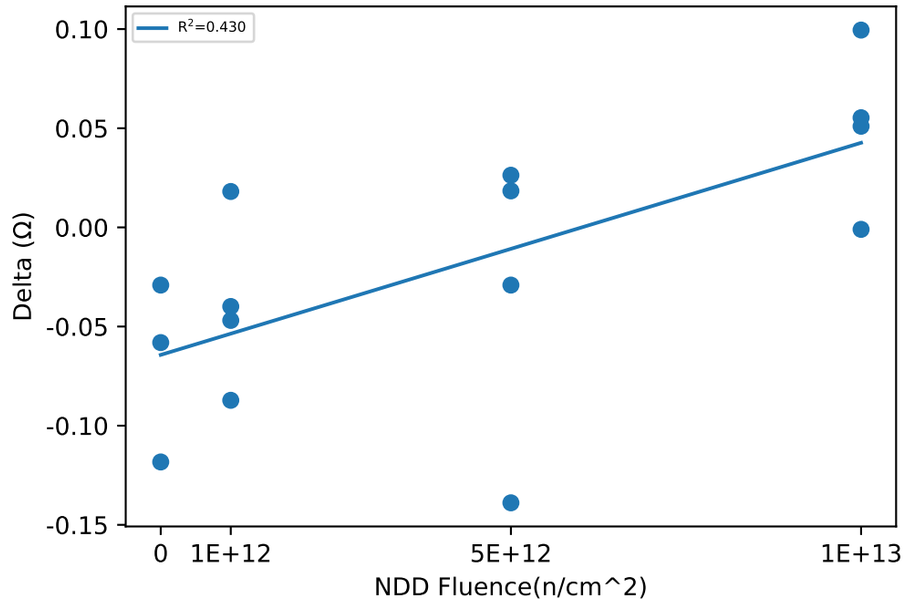
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.09	20.153	20.23	0.07149	20.055	20.116	20.156	0.053603	-0.0928	-0.036233	0.0185	0.055673
1e+12	19.984	20.141	20.342	0.15514	19.997	20.112	20.281	0.1308	-0.061	-0.029175	0.0132	0.031573
5e+12	20.154	20.222	20.252	0.04579	19.082	19.902	20.249	0.5497	-1.1588	-0.31955	-0.0027	0.56022
1e+13	20.114	20.203	20.405	0.13725	20.034	20.142	20.358	0.14626	-0.0876	-0.06165	-0.0265	0.029662

Device Test: 18.4; RESET_RPMOS_LOW_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 40.0 (Ω))

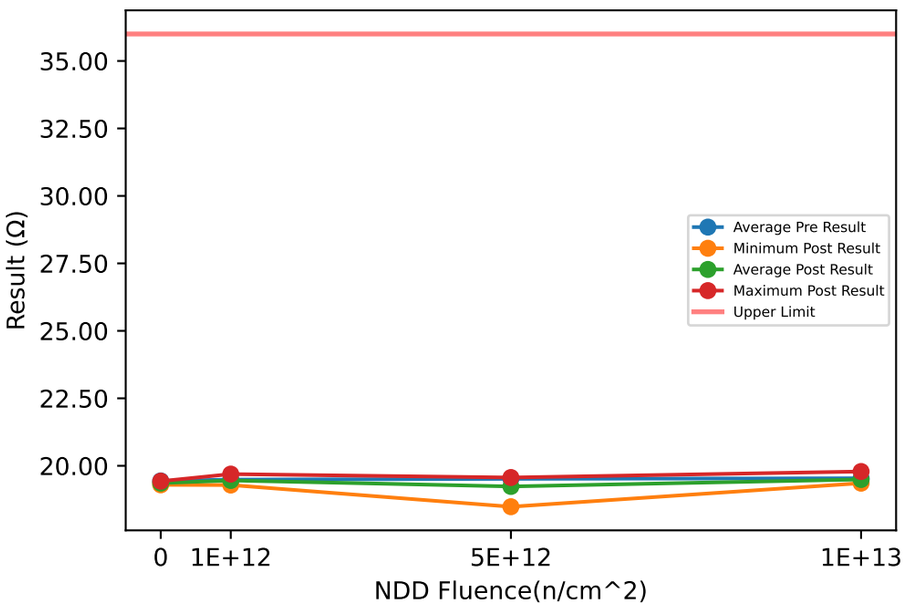
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	18.118	18.03	-0.0872
304	1e+12	NDD Unbiased	18.219	18.179	-0.0399
305	1e+12	NDD Unbiased	18.345	18.298	-0.0469
306	1e+12	NDD Unbiased	17.994	18.012	0.0181
307	5e+12	NDD Unbiased	17.947	17.918	-0.0291
308	5e+12	NDD Unbiased	18.462	18.48	0.0184
309	5e+12	NDD Unbiased	17.879	17.905	0.0263
310	5e+12	NDD Unbiased	17.918	17.779	-0.1389
311	1e+13	NDD Unbiased	17.841	17.897	0.0553
312	1e+13	NDD Unbiased	18.196	18.195	-0.001
313	1e+13	NDD Unbiased	18.449	18.5	0.051
314	1e+13	NDD Unbiased	18.189	18.288	0.0995
315	0	Correlation	17.688	17.658	-0.0291
316	0	Correlation	17.928	17.87	-0.0581
317	0	Correlation	17.628	17.51	-0.1183

Test Statistics (Ω)

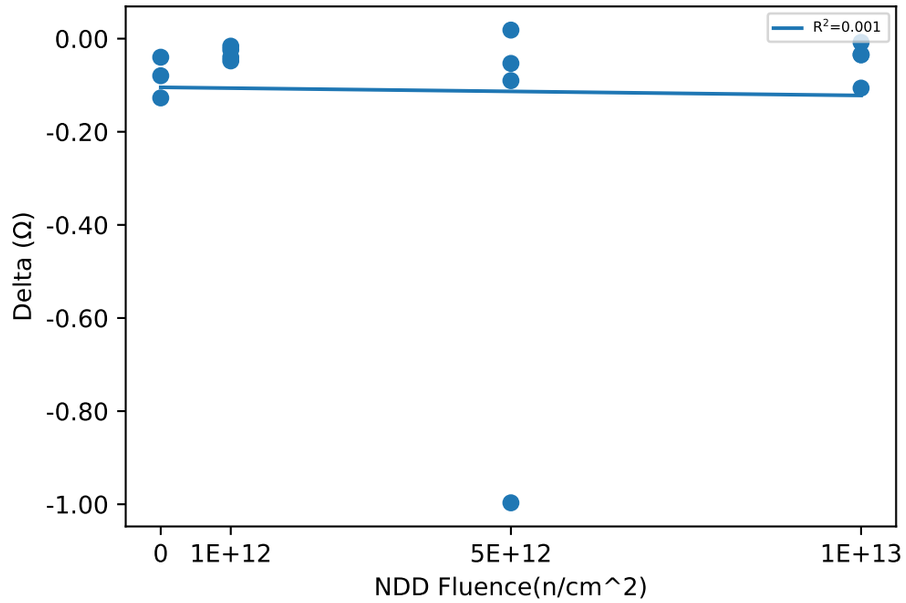
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	17.628	17.748	17.928	0.15859	17.51	17.679	17.87	0.18076	-0.1183	-0.0685	-0.0291	0.0455
1e+12	17.994	18.169	18.345	0.14917	18.012	18.13	18.298	0.13481	-0.0872	-0.038975	0.0181	0.043385
5e+12	17.879	18.051	18.462	0.2751	17.779	18.02	18.48	0.31286	-0.1389	-0.030825	0.0263	0.076091
1e+13	17.841	18.169	18.449	0.24968	17.897	18.22	18.5	0.25058	-0.001	0.0512	0.0995	0.041128

Device Test: 18.40; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



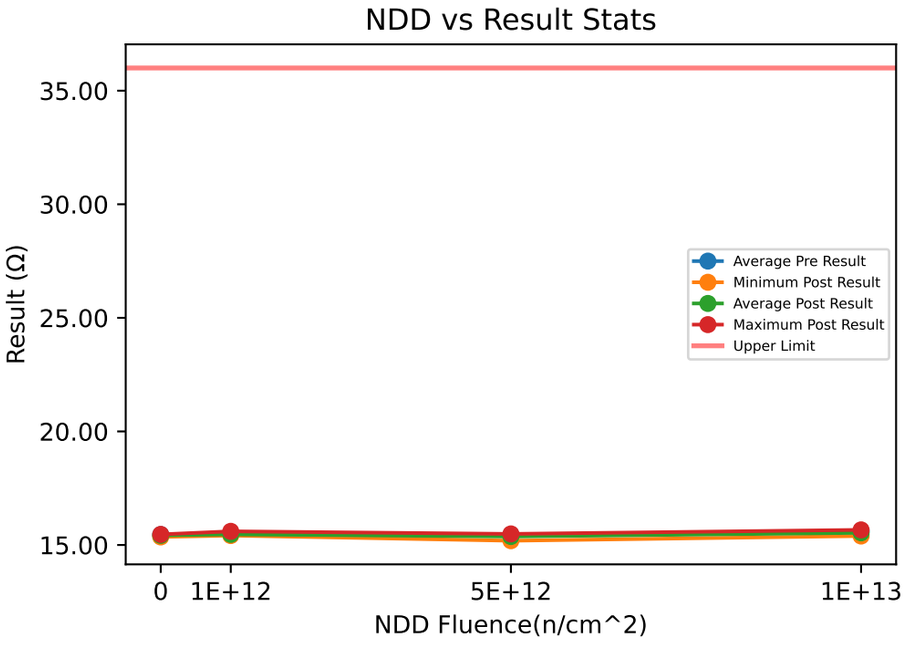
Test Results (Upper Limit = 36.0 (Ω))

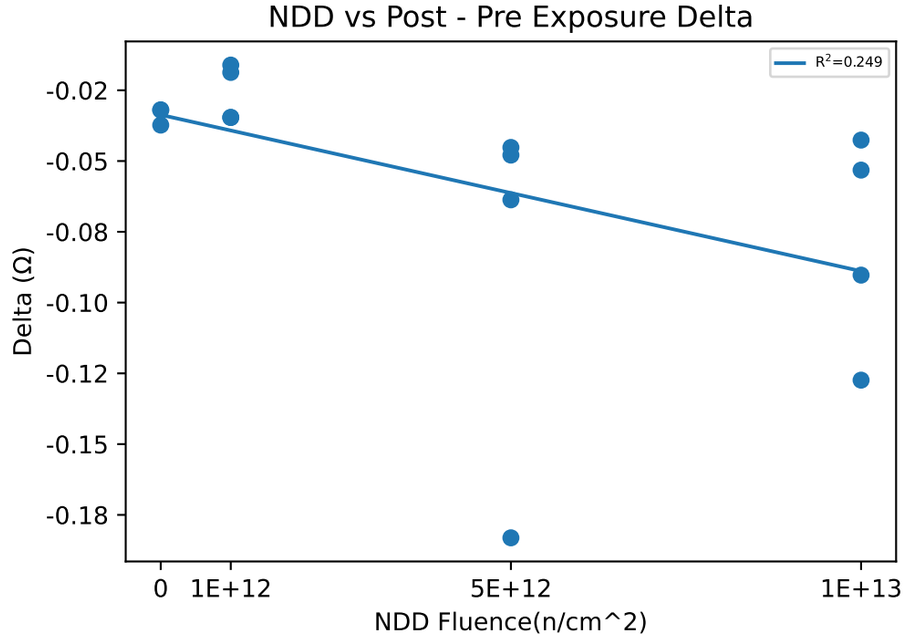
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.334	19.287	-0.0478
304	1e+12	NDD Unbiased	19.446	19.43	-0.0161
305	1e+12	NDD Unbiased	19.441	19.417	-0.024
306	1e+12	NDD Unbiased	19.732	19.692	-0.0399
307	5e+12	NDD Unbiased	19.541	19.451	-0.0902
308	5e+12	NDD Unbiased	19.422	19.44	0.0184
309	5e+12	NDD Unbiased	19.618	19.565	-0.0532
310	5e+12	NDD Unbiased	19.48	18.483	-0.9969
311	1e+13	NDD Unbiased	19.462	19.356	-0.1062
312	1e+13	NDD Unbiased	19.456	19.448	-0.0081
313	1e+13	NDD Unbiased	19.822	19.788	-0.0346
314	1e+13	NDD Unbiased	19.411	19.377	-0.0346
315	0	Correlation	19.475	19.348	-0.1273
316	0	Correlation	19.509	19.43	-0.0797
317	0	Correlation	19.334	19.295	-0.0399

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.334	19.44	19.509	0.092696	19.295	19.357	19.43	0.068116	-0.1273	-0.0823	-0.0399	0.043758
1e+12	19.334	19.488	19.732	0.1705	19.287	19.456	19.692	0.17004	-0.0478	-0.03195	-0.0161	0.014478
5e+12	19.422	19.515	19.618	0.084052	18.483	19.235	19.565	0.50421	-0.9969	-0.28048	0.0184	0.47974
1e+13	19.411	19.538	19.822	0.19088	19.356	19.492	19.788	0.20101	-0.1062	-0.045875	-0.0081	0.042112

Device Test: 18.41; PWRGD_RNMOS





Test Results (Upper Limit = 36.0 (Ω))

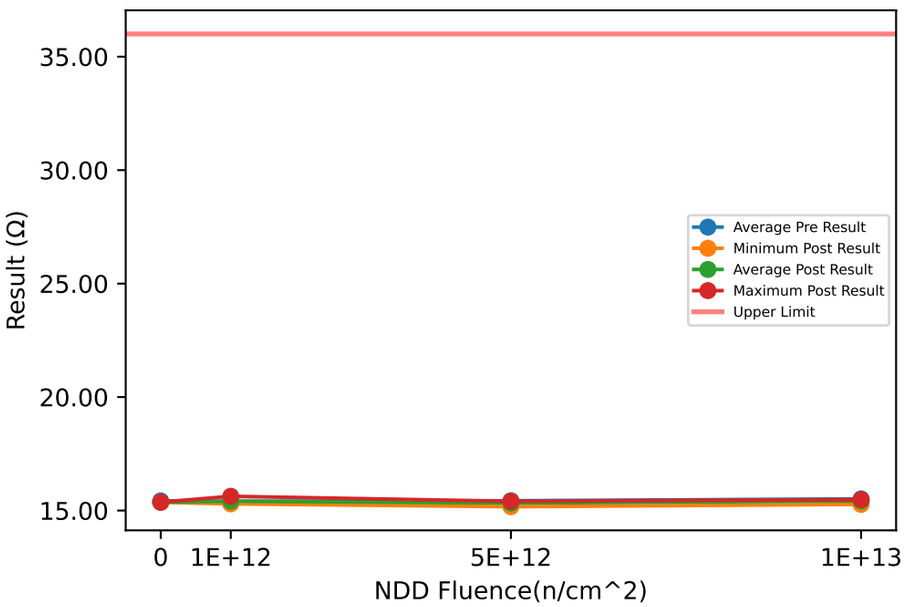
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	15.451	15.416	-0.0346
304	1e+12	NDD Unbiased	15.464	15.43	-0.0346
305	1e+12	NDD Unbiased	15.445	15.427	-0.0187
306	1e+12	NDD Unbiased	15.618	15.602	-0.0161
307	5e+12	NDD Unbiased	15.483	15.419	-0.0637
308	5e+12	NDD Unbiased	15.536	15.488	-0.0479
309	5e+12	NDD Unbiased	15.44	15.395	-0.0452
310	5e+12	NDD Unbiased	15.371	15.188	-0.1831
311	1e+13	NDD Unbiased	15.557	15.43	-0.1274
312	1e+13	NDD Unbiased	15.448	15.395	-0.0532
313	1e+13	NDD Unbiased	15.708	15.665	-0.0426
314	1e+13	NDD Unbiased	15.742	15.652	-0.0903
315	0	Correlation	15.393	15.355	-0.0373
316	0	Correlation	15.498	15.467	-0.0319
317	0	Correlation	15.485	15.453	-0.032

Test Statistics (Ω)

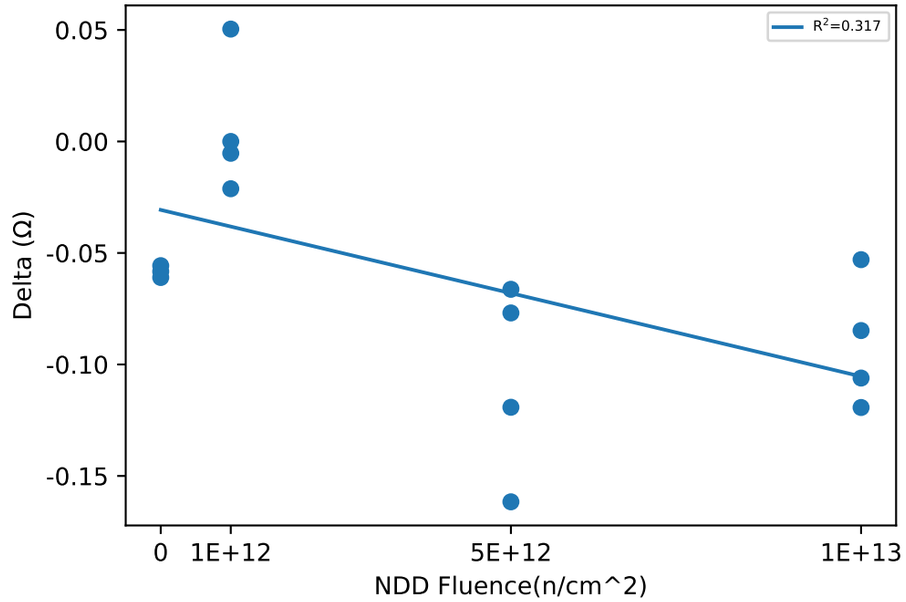
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	15.393	15.459	15.498	0.057767	15.355	15.425	15.467	0.060842	-0.0373	-0.033733	-0.0319	0.0030892
1e+12	15.445	15.495	15.618	0.082588	15.416	15.469	15.602	0.089002	-0.0346	-0.026	-0.0161	0.009987
5e+12	15.371	15.457	15.536	0.069462	15.188	15.372	15.488	0.129	-0.1831	-0.084975	-0.0452	0.065924
1e+13	15.448	15.614	15.742	0.13675	15.395	15.536	15.665	0.14314	-0.1274	-0.078375	-0.0426	0.038554

Device Test: 18.42; WDO_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

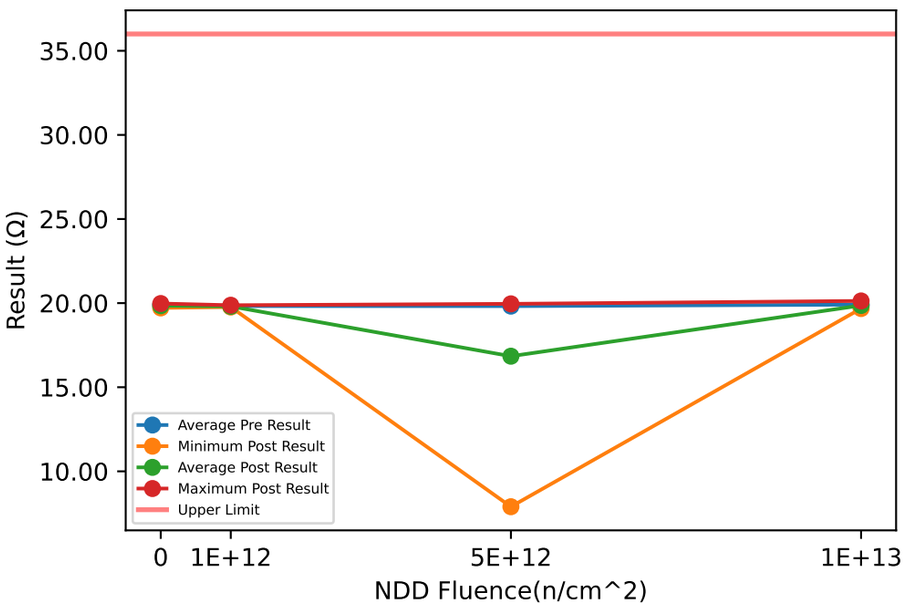
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	15.314	15.293	-0.0212
304	1e+12	NDD Unbiased	15.282	15.333	0.0504
305	1e+12	NDD Unbiased	15.394	15.394	0
306	1e+12	NDD Unbiased	15.632	15.627	-0.0053
307	5e+12	NDD Unbiased	15.481	15.362	-0.1192
308	5e+12	NDD Unbiased	15.431	15.364	-0.0663
309	5e+12	NDD Unbiased	15.484	15.407	-0.0769
310	5e+12	NDD Unbiased	15.33	15.168	-0.1616
311	1e+13	NDD Unbiased	15.378	15.272	-0.1061
312	1e+13	NDD Unbiased	15.523	15.47	-0.053
313	1e+13	NDD Unbiased	15.6	15.481	-0.1193
314	1e+13	NDD Unbiased	15.55	15.465	-0.0848
315	0	Correlation	15.425	15.37	-0.0557
316	0	Correlation	15.431	15.37	-0.061
317	0	Correlation	15.42	15.362	-0.0583

Test Statistics (Ω)

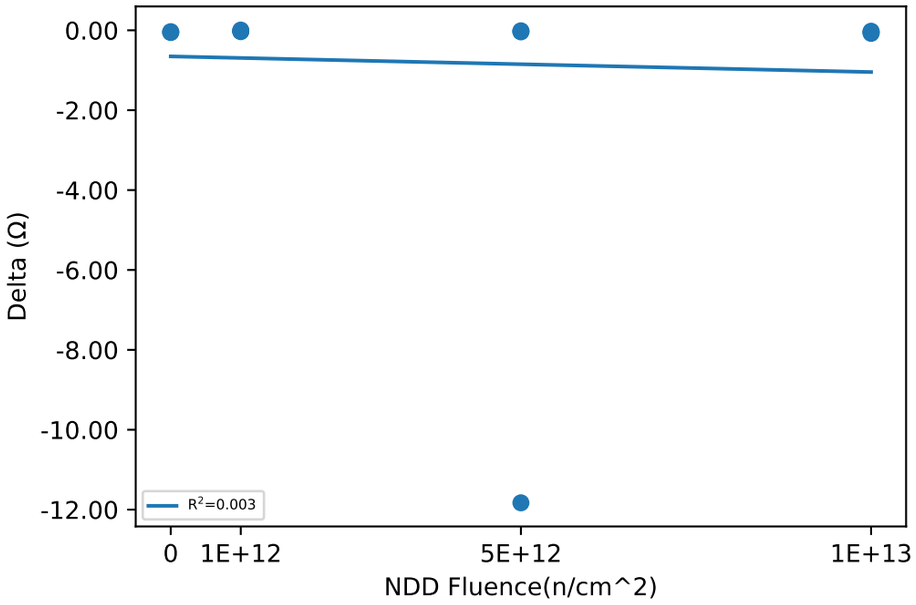
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	15.42	15.425	15.431	0.0053	15.362	15.367	15.37	0.0045611	-0.061	-0.058333	-0.0557	0.0026502
1e+12	15.282	15.405	15.632	0.15818	15.293	15.411	15.627	0.14943	-0.0212	0.005975	0.0504	0.030956
5e+12	15.33	15.431	15.484	0.071875	15.168	15.325	15.407	0.1067	-0.1616	-0.106	-0.0663	0.043545
1e+13	15.378	15.513	15.6	0.095563	15.272	15.422	15.481	0.1005	-0.1193	-0.0908	-0.053	0.028932

Device Test: 18.43; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

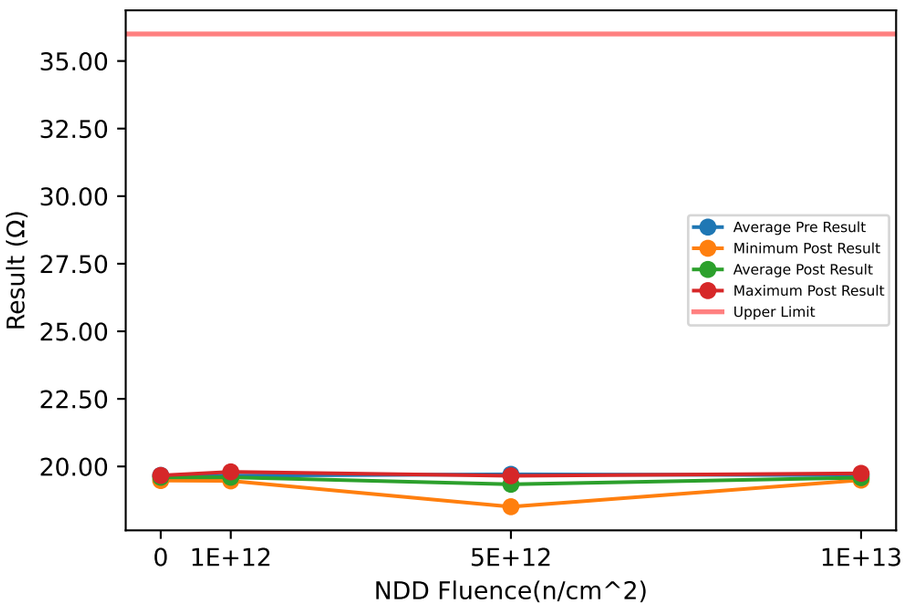
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.8	19.805	0.0055
304	1e+12	NDD Unbiased	19.802	19.781	-0.0211
305	1e+12	NDD Unbiased	19.909	19.874	-0.0343
306	1e+12	NDD Unbiased	19.787	19.768	-0.0185
307	5e+12	NDD Unbiased	19.845	19.805	-0.0396
308	5e+12	NDD Unbiased	19.98	19.956	-0.0238
309	5e+12	NDD Unbiased	19.733	19.72	-0.0132
310	5e+12	NDD Unbiased	19.726	7.8961	-11.829
311	1e+13	NDD Unbiased	19.922	19.845	-0.0768
312	1e+13	NDD Unbiased	19.715	19.678	-0.037
313	1e+13	NDD Unbiased	20.187	20.129	-0.0582
314	1e+13	NDD Unbiased	19.813	19.789	-0.0238
315	0	Correlation	19.749	19.715	-0.0344
316	0	Correlation	20.031	19.975	-0.0556
317	0	Correlation	19.898	19.85	-0.0476

Test Statistics (Ω)

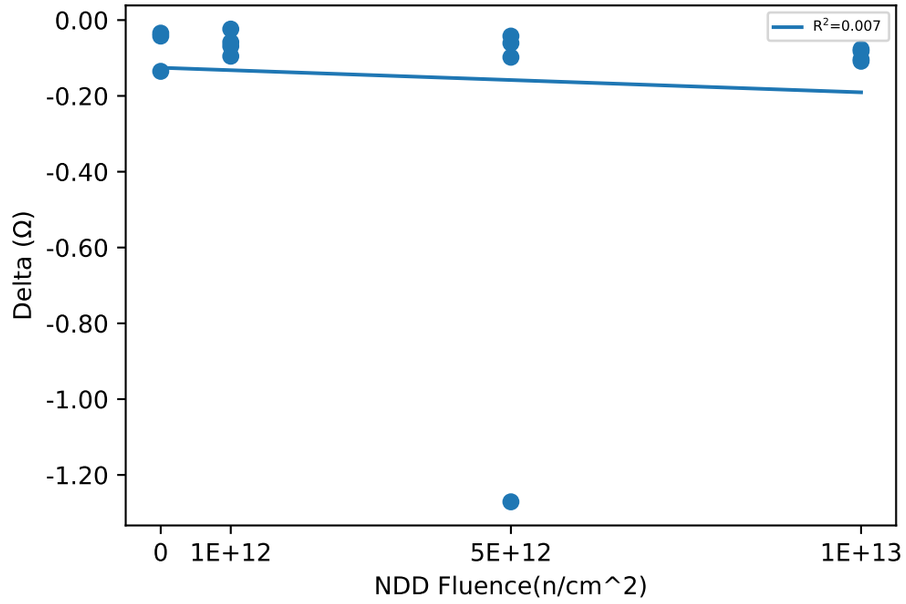
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.749	19.893	20.031	0.14072	19.715	19.847	19.975	0.13009	-0.0556	-0.045867	-0.0344	0.010706
1e+12	19.787	19.824	19.909	0.056578	19.768	19.807	19.874	0.04726	-0.0343	-0.0171	0.0055	0.016579
5e+12	19.726	19.821	19.98	0.11934	7.8961	16.845	19.956	5.9664	-11.829	-2.9765	-0.0132	5.9019
1e+13	19.715	19.909	20.187	0.20371	19.678	19.86	20.129	0.19218	-0.0768	-0.04895	-0.0238	0.023356

Device Test: 18.44; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

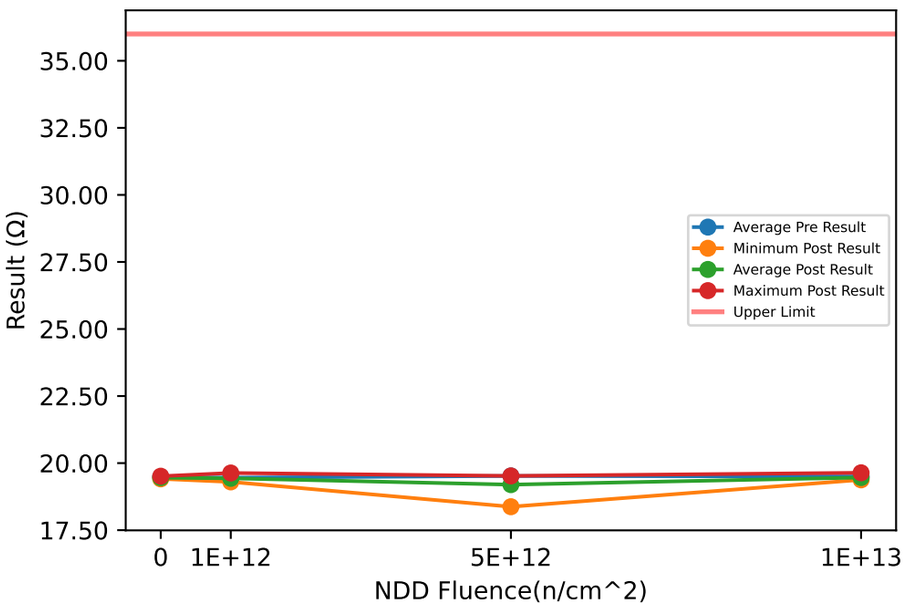
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.489	19.466	-0.0237
304	1e+12	NDD Unbiased	19.659	19.59	-0.0688
305	1e+12	NDD Unbiased	19.635	19.54	-0.0953
306	1e+12	NDD Unbiased	19.858	19.8	-0.0582
307	5e+12	NDD Unbiased	19.651	19.553	-0.098
308	5e+12	NDD Unbiased	19.686	19.643	-0.0422
309	5e+12	NDD Unbiased	19.715	19.654	-0.0608
310	5e+12	NDD Unbiased	19.781	18.51	-1.2709
311	1e+13	NDD Unbiased	19.643	19.561	-0.0821
312	1e+13	NDD Unbiased	19.604	19.495	-0.1086
313	1e+13	NDD Unbiased	19.821	19.744	-0.0768
314	1e+13	NDD Unbiased	19.643	19.54	-0.1033
315	0	Correlation	19.614	19.479	-0.1352
316	0	Correlation	19.702	19.667	-0.0344
317	0	Correlation	19.691	19.649	-0.0422

Test Statistics (Ω)

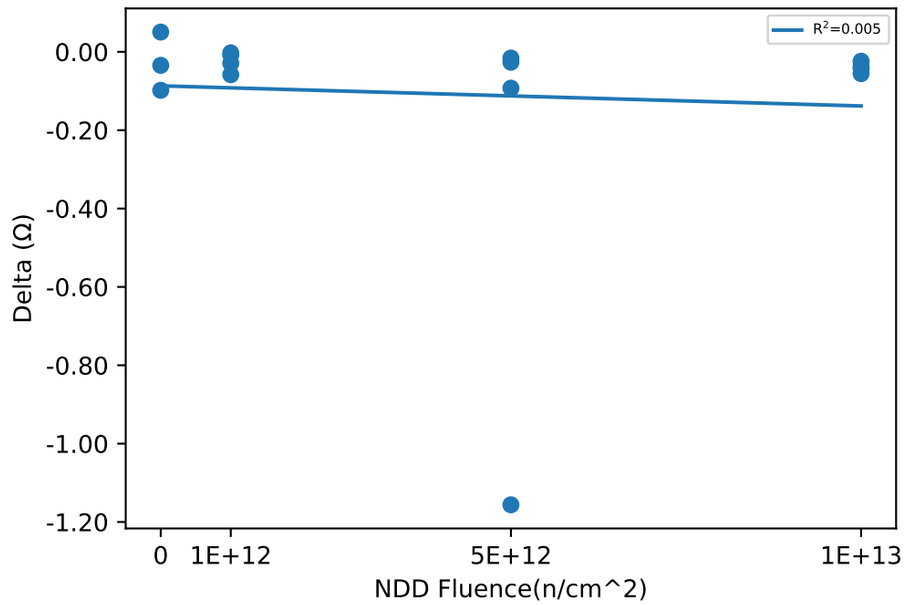
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.614	19.669	19.702	0.047787	19.479	19.598	19.667	0.10385	-0.1352	-0.0706	-0.0344	0.056081
1e+12	19.489	19.661	19.858	0.15165	19.466	19.599	19.8	0.14344	-0.0953	-0.0615	-0.0237	0.029639
5e+12	19.651	19.708	19.781	0.055208	18.51	19.34	19.654	0.55512	-1.2709	-0.36798	-0.0422	0.6024
1e+13	19.604	19.678	19.821	0.097358	19.495	19.585	19.744	0.10968	-0.1086	-0.0927	-0.0768	0.015603

Device Test: 18.45; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

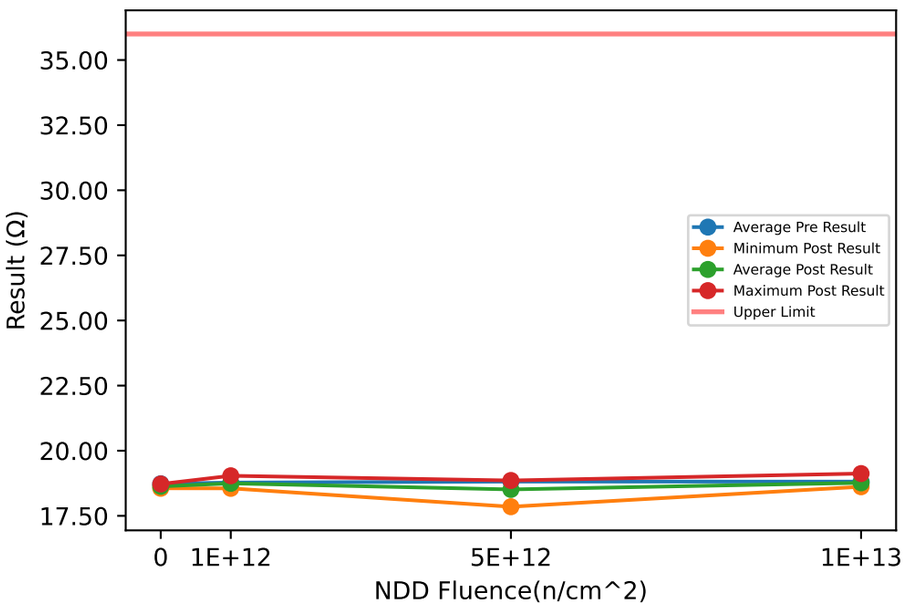
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.358	19.3	-0.0584
304	1e+12	NDD Unbiased	19.369	19.339	-0.0292
305	1e+12	NDD Unbiased	19.469	19.461	-0.0079
306	1e+12	NDD Unbiased	19.634	19.631	-0.0026
307	5e+12	NDD Unbiased	19.496	19.403	-0.0928
308	5e+12	NDD Unbiased	19.517	19.491	-0.0266
309	5e+12	NDD Unbiased	19.538	19.522	-0.0159
310	5e+12	NDD Unbiased	19.53	18.374	-1.1562
311	1e+13	NDD Unbiased	19.445	19.422	-0.0239
312	1e+13	NDD Unbiased	19.453	19.411	-0.0424
313	1e+13	NDD Unbiased	19.695	19.639	-0.0557
314	1e+13	NDD Unbiased	19.414	19.377	-0.0371
315	0	Correlation	19.512	19.414	-0.0982
316	0	Correlation	19.546	19.512	-0.0345
317	0	Correlation	19.398	19.448	0.0504

Test Statistics (Ω)

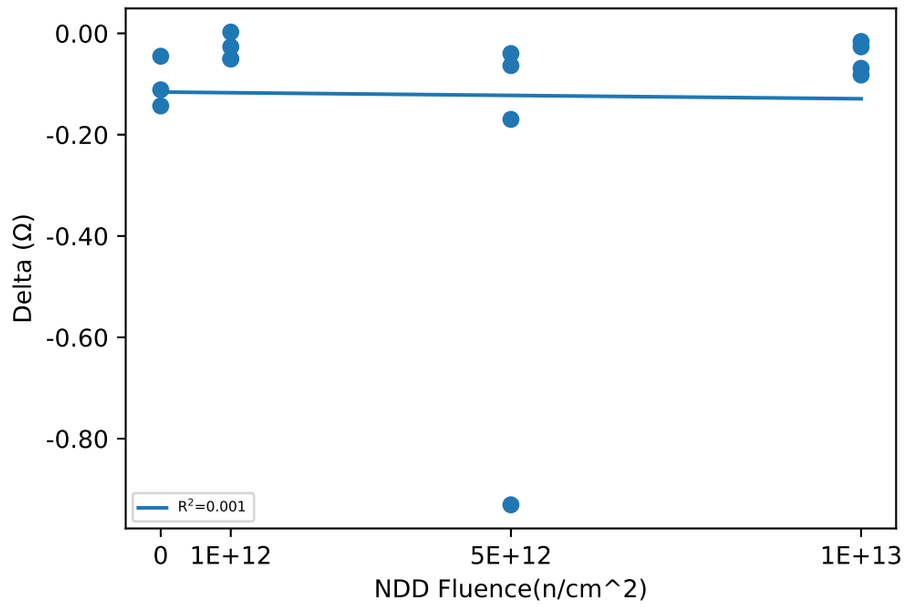
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.398	19.485	19.546	0.077733	19.414	19.458	19.512	0.049764	-0.0982	-0.027433	0.0504	0.074552
1e+12	19.358	19.457	19.634	0.12779	19.3	19.433	19.631	0.149	-0.0584	-0.024525	-0.0026	0.025341
5e+12	19.496	19.52	19.538	0.018569	18.374	19.197	19.522	0.55125	-1.1562	-0.32287	-0.0159	0.55659
1e+13	19.414	19.502	19.695	0.12975	19.377	19.462	19.639	0.11954	-0.0557	-0.039775	-0.0239	0.013161

Device Test: 18.46; RESET_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 36.0 (Ω))

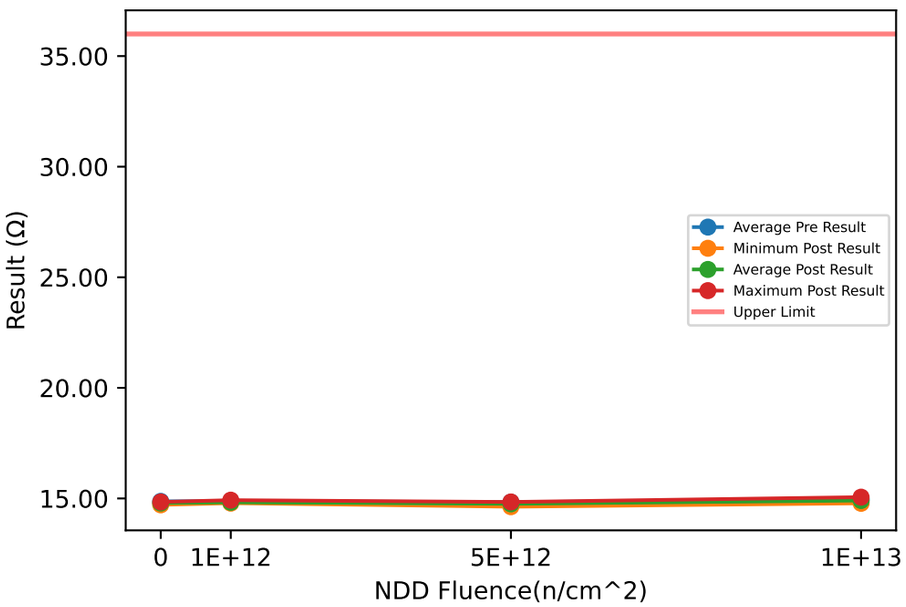
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	18.605	18.555	-0.0505
304	1e+12	NDD Unbiased	18.735	18.738	0.0025
305	1e+12	NDD Unbiased	18.68	18.653	-0.0266
306	1e+12	NDD Unbiased	19.088	19.038	-0.0505
307	5e+12	NDD Unbiased	18.826	18.656	-0.1698
308	5e+12	NDD Unbiased	18.733	18.693	-0.0399
309	5e+12	NDD Unbiased	18.921	18.857	-0.0637
310	5e+12	NDD Unbiased	18.78	17.85	-0.9306
311	1e+13	NDD Unbiased	18.685	18.616	-0.069
312	1e+13	NDD Unbiased	18.767	18.685	-0.0823
313	1e+13	NDD Unbiased	19.149	19.122	-0.0266
314	1e+13	NDD Unbiased	18.659	18.642	-0.016
315	0	Correlation	18.757	18.613	-0.1433
316	0	Correlation	18.834	18.722	-0.1115
317	0	Correlation	18.603	18.558	-0.0452

Test Statistics (Ω)

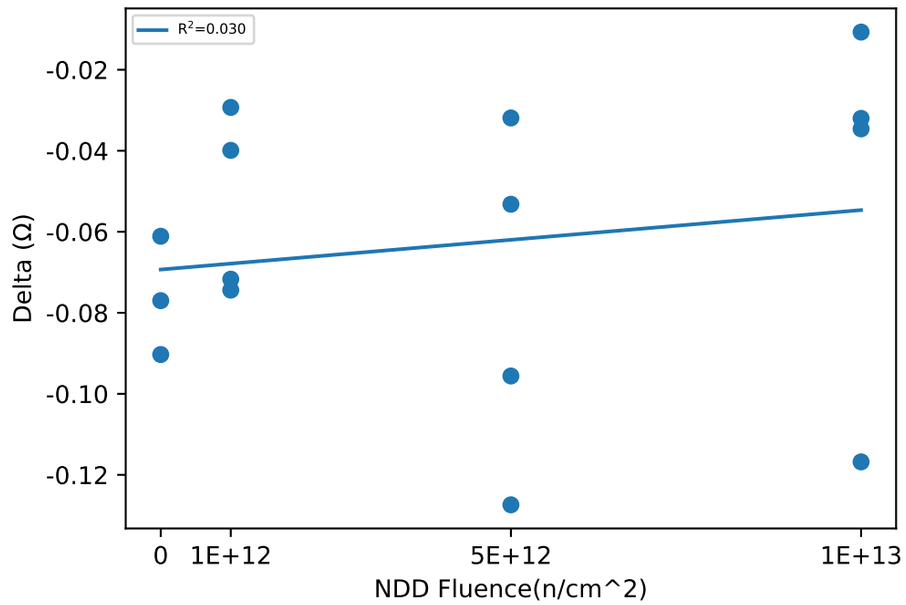
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.603	18.731	18.834	0.11747	18.558	18.631	18.722	0.083612	-0.1433	-0.1	-0.0452	0.050051
1e+12	18.605	18.777	19.088	0.21396	18.555	18.746	19.038	0.20829	-0.0505	-0.031275	0.0025	0.025178
5e+12	18.733	18.815	18.921	0.080199	17.85	18.514	18.857	0.45129	-0.9306	-0.301	-0.0399	0.42351
1e+13	18.659	18.815	19.149	0.22742	18.616	18.766	19.122	0.23894	-0.0823	-0.048475	-0.016	0.032138

Device Test: 18.47; PWRGD_RNMOS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



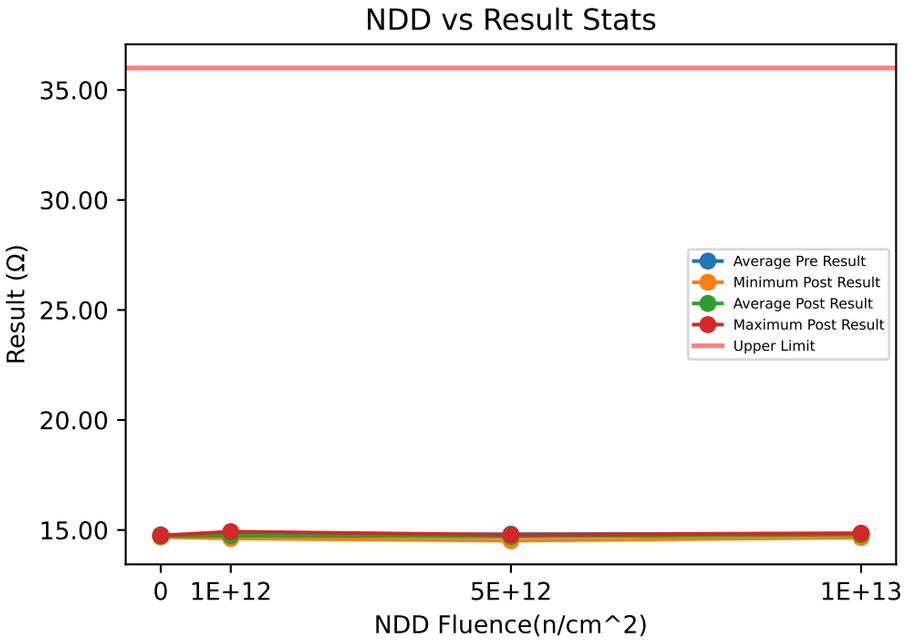
Test Results (Upper Limit = 36.0 (Ω))

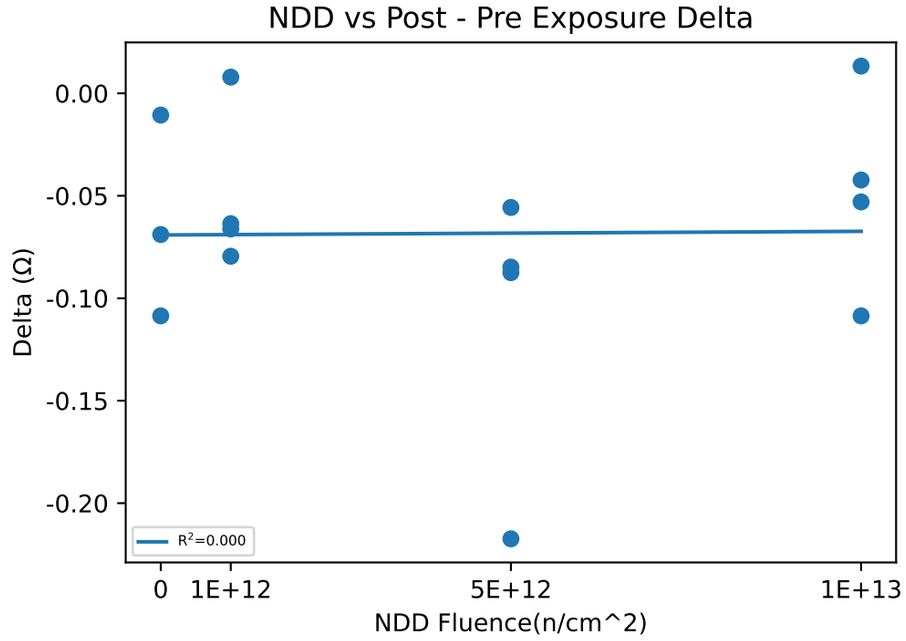
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	14.83	14.79	-0.0399
304	1e+12	NDD Unbiased	14.86	14.788	-0.0717
305	1e+12	NDD Unbiased	14.828	14.798	-0.0293
306	1e+12	NDD Unbiased	14.997	14.923	-0.0744
307	5e+12	NDD Unbiased	14.894	14.798	-0.0956
308	5e+12	NDD Unbiased	14.894	14.841	-0.0532
309	5e+12	NDD Unbiased	14.788	14.756	-0.0319
310	5e+12	NDD Unbiased	14.753	14.626	-0.1274
311	1e+13	NDD Unbiased	14.91	14.793	-0.1168
312	1e+13	NDD Unbiased	14.814	14.78	-0.0346
313	1e+13	NDD Unbiased	15.09	15.058	-0.032
314	1e+13	NDD Unbiased	15.005	14.995	-0.0107
315	0	Correlation	14.788	14.711	-0.077
316	0	Correlation	14.931	14.841	-0.0903
317	0	Correlation	14.886	14.825	-0.0611

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	14.788	14.868	14.931	0.073216	14.711	14.792	14.841	0.070855	-0.0903	-0.076133	-0.0611	0.014619
1e+12	14.828	14.879	14.997	0.080419	14.788	14.825	14.923	0.065555	-0.0744	-0.053825	-0.0293	0.022644
5e+12	14.753	14.832	14.894	0.072596	14.626	14.755	14.841	0.092892	-0.1274	-0.077025	-0.0319	0.042765
1e+13	14.814	14.955	15.09	0.11918	14.78	14.906	15.058	0.14105	-0.1168	-0.048525	-0.0107	0.046759

Device Test: 18.48; WDO_RNMOS





Test Results (Upper Limit = 36.0 (Ω))

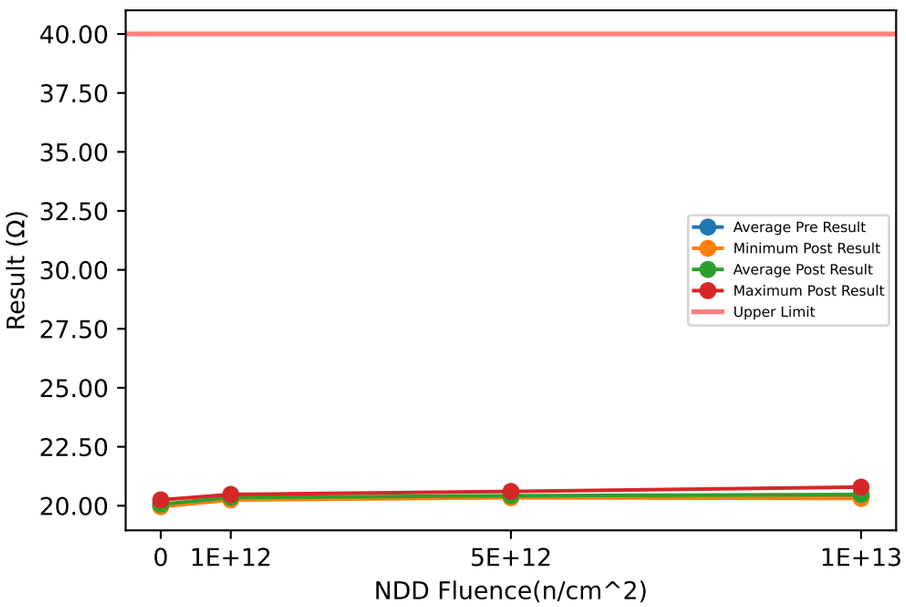
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	14.699	14.636	-0.0636
304	1e+12	NDD Unbiased	14.683	14.617	-0.0662
305	1e+12	NDD Unbiased	14.773	14.781	0.0079
306	1e+12	NDD Unbiased	15.007	14.927	-0.0795
307	5e+12	NDD Unbiased	14.866	14.781	-0.0848
308	5e+12	NDD Unbiased	14.826	14.739	-0.0875
309	5e+12	NDD Unbiased	14.821	14.765	-0.0557
310	5e+12	NDD Unbiased	14.731	14.514	-0.2174
311	1e+13	NDD Unbiased	14.699	14.657	-0.0423
312	1e+13	NDD Unbiased	14.871	14.818	-0.053
313	1e+13	NDD Unbiased	14.94	14.832	-0.1086
314	1e+13	NDD Unbiased	14.84	14.853	0.0133
315	0	Correlation	14.792	14.683	-0.1086
316	0	Correlation	14.818	14.749	-0.0689
317	0	Correlation	14.736	14.726	-0.0106

Test Statistics (Ω)

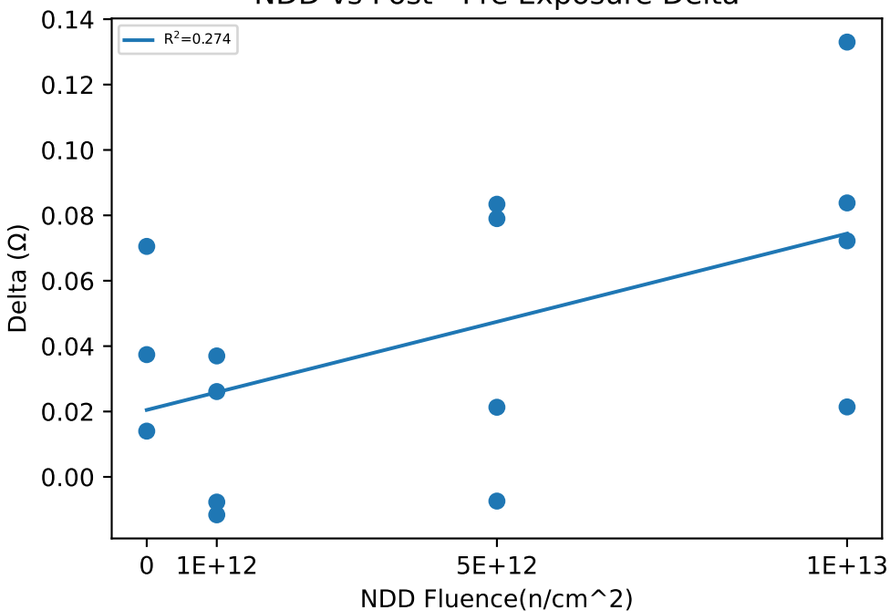
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	14.736	14.782	14.818	0.041901	14.683	14.719	14.749	0.033533	-0.1086	-0.0627	-0.0106	0.049293
1e+12	14.683	14.791	15.007	0.14929	14.617	14.74	14.927	0.14464	-0.0795	-0.05035	0.0079	0.039453
5e+12	14.731	14.811	14.866	0.057082	14.514	14.7	14.781	0.12536	-0.2174	-0.11135	-0.0557	0.072151
1e+13	14.699	14.838	14.94	0.10145	14.657	14.79	14.853	0.089896	-0.1086	-0.04765	0.0133	0.049957

Device Test: 18.5; PWRGD_RPMOS_LOW_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 40.0 (Ω))

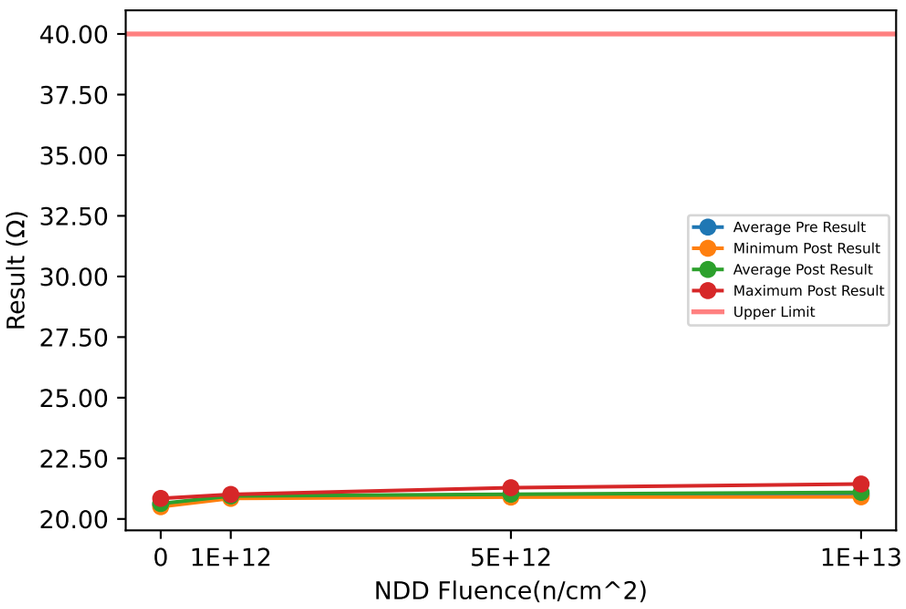
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	20.254	20.242	-0.0116
304	1e+12	NDD Unbiased	20.392	20.384	-0.0077
305	1e+12	NDD Unbiased	20.452	20.478	0.0261
306	1e+12	NDD Unbiased	20.259	20.296	0.037
307	5e+12	NDD Unbiased	20.365	20.358	-0.0074
308	5e+12	NDD Unbiased	20.522	20.606	0.0834
309	5e+12	NDD Unbiased	20.317	20.339	0.0213
310	5e+12	NDD Unbiased	20.311	20.39	0.079
311	1e+13	NDD Unbiased	20.237	20.309	0.0722
312	1e+13	NDD Unbiased	20.317	20.4	0.0838
313	1e+13	NDD Unbiased	20.657	20.79	0.133
314	1e+13	NDD Unbiased	20.385	20.407	0.0214
315	0	Correlation	19.944	19.957	0.014
316	0	Correlation	20.176	20.247	0.0705
317	0	Correlation	19.935	19.973	0.0374

Test Statistics (Ω)

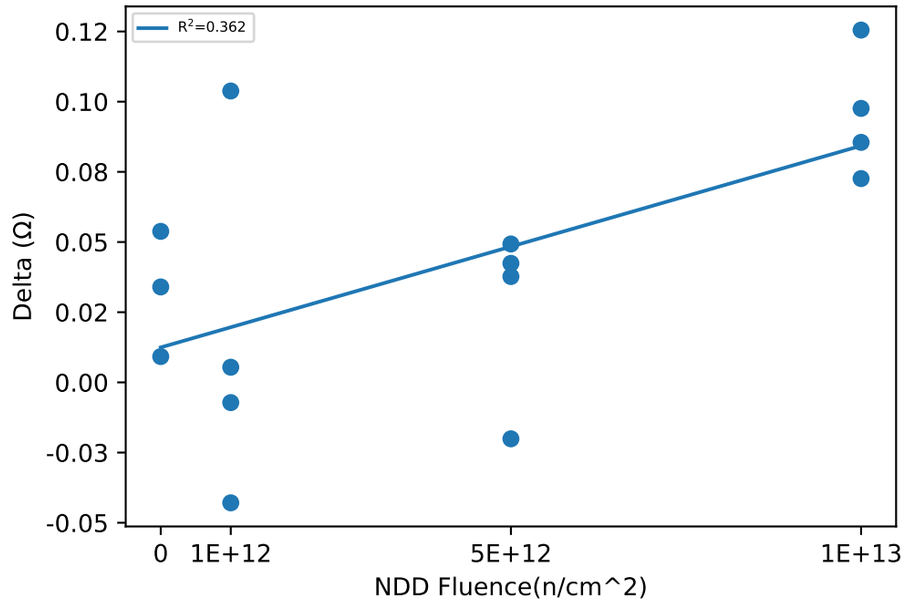
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.935	20.018	20.176	0.13686	19.957	20.059	20.247	0.16285	0.014	0.040633	0.0705	0.028388
1e+12	20.254	20.339	20.452	0.098573	20.242	20.35	20.478	0.10337	-0.0116	0.01095	0.037	0.024252
5e+12	20.311	20.379	20.522	0.098593	20.339	20.423	20.606	0.12361	-0.0074	0.044075	0.0834	0.044477
1e+13	20.237	20.399	20.657	0.18257	20.309	20.477	20.79	0.21384	0.0214	0.0776	0.133	0.045808

Device Test: 18.6; WDO_RPMOS_LOW_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 40.0 (Ω))

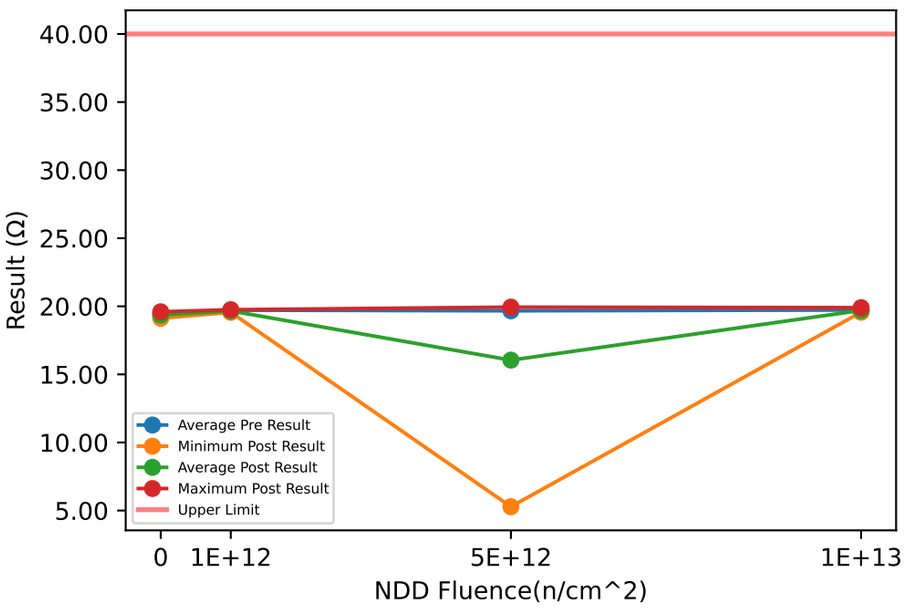
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	20.89	20.848	-0.0429
304	1e+12	NDD Unbiased	21.018	21.011	-0.0072
305	1e+12	NDD Unbiased	21.004	21.009	0.0054
306	1e+12	NDD Unbiased	20.817	20.921	0.1038
307	5e+12	NDD Unbiased	20.92	20.9	-0.0201
308	5e+12	NDD Unbiased	21.239	21.288	0.0493
309	5e+12	NDD Unbiased	20.878	20.915	0.0377
310	5e+12	NDD Unbiased	20.926	20.969	0.0424
311	1e+13	NDD Unbiased	20.839	20.912	0.0726
312	1e+13	NDD Unbiased	20.916	21.014	0.0976
313	1e+13	NDD Unbiased	21.315	21.441	0.1255
314	1e+13	NDD Unbiased	20.934	21.02	0.0855
315	0	Correlation	20.541	20.55	0.0092
316	0	Correlation	20.813	20.847	0.034
317	0	Correlation	20.45	20.504	0.0538

Test Statistics (Ω)

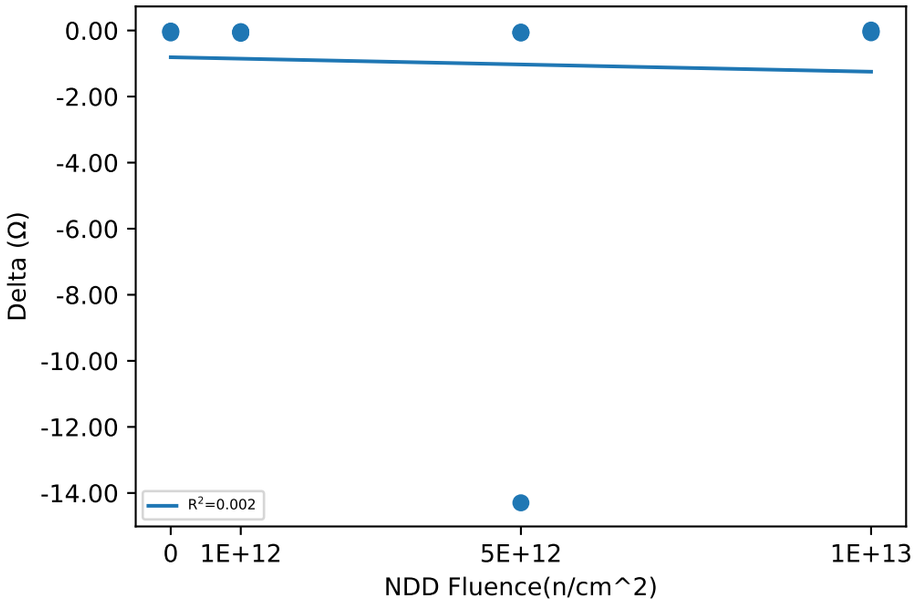
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.45	20.601	20.813	0.18887	20.504	20.634	20.847	0.18625	0.0092	0.032333	0.0538	0.022347
1e+12	20.817	20.932	21.018	0.095914	20.848	20.947	21.011	0.078645	-0.0429	0.014775	0.1038	0.062776
5e+12	20.878	20.991	21.239	0.16678	20.9	21.018	21.288	0.18244	-0.0201	0.027325	0.0493	0.031974
1e+13	20.839	21.001	21.315	0.21329	20.912	21.097	21.441	0.2347	0.0726	0.0953	0.1255	0.022573

Device Test: 18.7; RESET_RPMOS_LOW_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 40.0 (Ω))

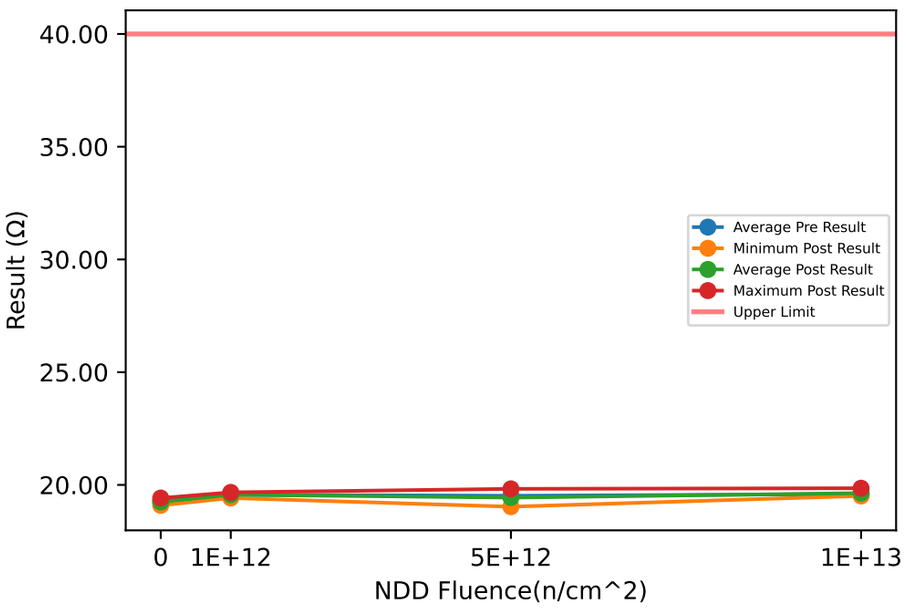
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.613	19.557	-0.056
304	1e+12	NDD Unbiased	19.766	19.725	-0.0409
305	1e+12	NDD Unbiased	19.785	19.748	-0.0375
306	1e+12	NDD Unbiased	19.703	19.618	-0.0853
307	5e+12	NDD Unbiased	19.579	19.529	-0.05
308	5e+12	NDD Unbiased	20.014	19.938	-0.0761
309	5e+12	NDD Unbiased	19.502	19.439	-0.0628
310	5e+12	NDD Unbiased	19.579	5.2811	-14.298
311	1e+13	NDD Unbiased	19.657	19.622	-0.0355
312	1e+13	NDD Unbiased	19.596	19.564	-0.0329
313	1e+13	NDD Unbiased	19.888	19.9	0.0123
314	1e+13	NDD Unbiased	19.776	19.706	-0.0696
315	0	Correlation	19.374	19.35	-0.0241
316	0	Correlation	19.671	19.597	-0.0739
317	0	Correlation	19.141	19.119	-0.0217

Test Statistics (Ω)

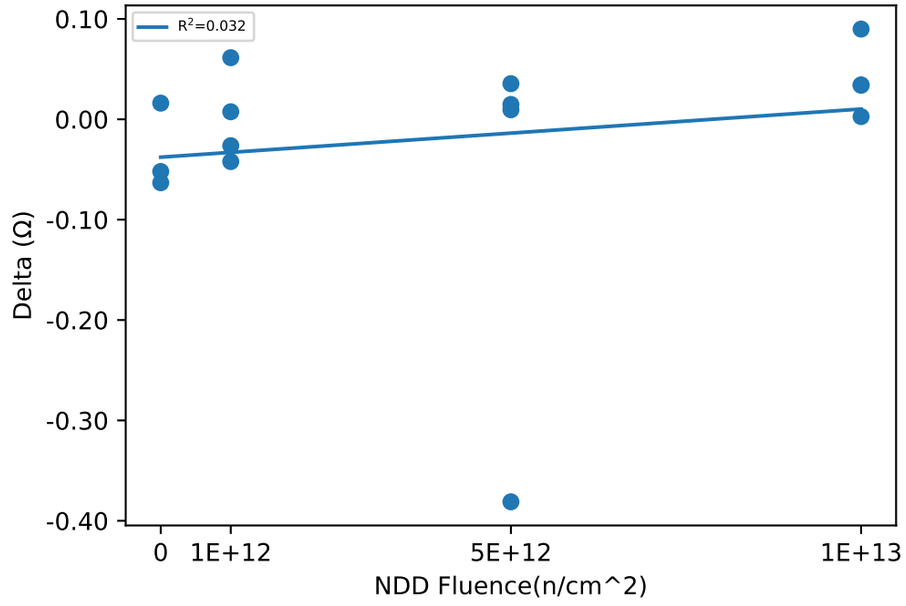
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.141	19.395	19.671	0.2657	19.119	19.355	19.597	0.239	-0.0739	-0.0399	-0.0217	0.029469
1e+12	19.613	19.717	19.785	0.077398	19.557	19.662	19.748	0.089796	-0.0853	-0.054925	-0.0375	0.021788
5e+12	19.502	19.668	20.014	0.23351	5.2811	16.047	19.938	7.1804	-14.298	-3.6216	-0.05	7.1173
1e+13	19.596	19.729	19.888	0.12917	19.564	19.698	19.9	0.1469	-0.0696	-0.031425	0.0123	0.033605

Device Test: 18.8; RESET_RPMOS_LOW_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 40.0 (Ω))

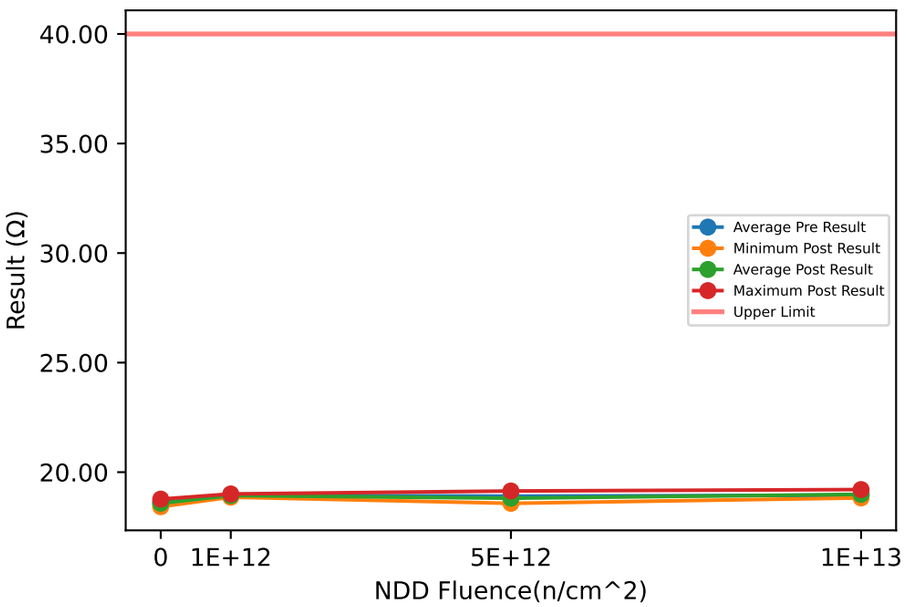
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	19.589	19.547	-0.0421
304	1e+12	NDD Unbiased	19.614	19.621	0.0075
305	1e+12	NDD Unbiased	19.607	19.668	0.0614
306	1e+12	NDD Unbiased	19.445	19.419	-0.0263
307	5e+12	NDD Unbiased	19.485	19.521	0.0355
308	5e+12	NDD Unbiased	19.809	19.824	0.0148
309	5e+12	NDD Unbiased	19.36	19.37	0.0095
310	5e+12	NDD Unbiased	19.413	19.032	-0.3811
311	1e+13	NDD Unbiased	19.476	19.51	0.0342
312	1e+13	NDD Unbiased	19.497	19.532	0.034
313	1e+13	NDD Unbiased	19.762	19.852	0.0899
314	1e+13	NDD Unbiased	19.639	19.642	0.0027
315	0	Correlation	19.28	19.217	-0.0632
316	0	Correlation	19.468	19.416	-0.052
317	0	Correlation	19.076	19.093	0.0161

Test Statistics (Ω)

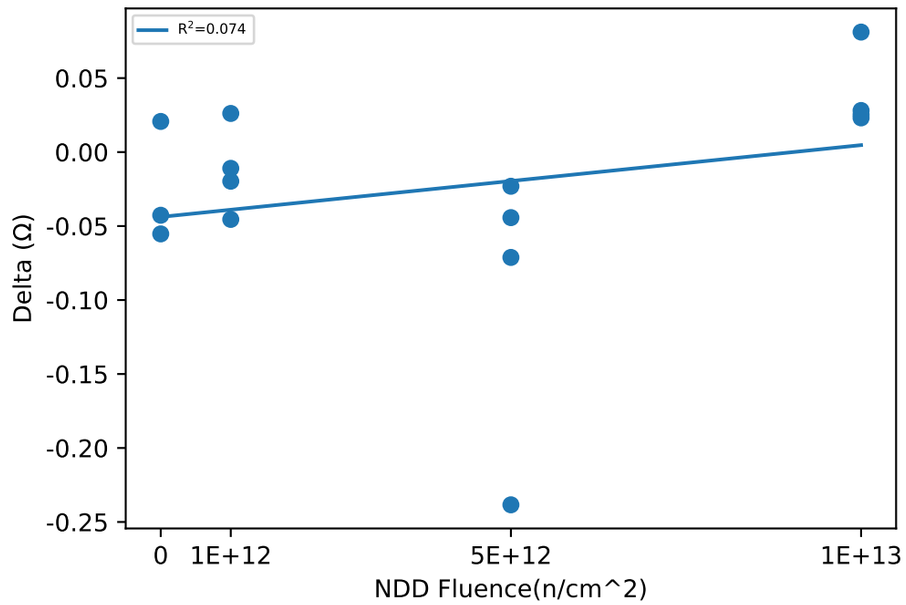
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	19.076	19.275	19.468	0.19605	19.093	19.242	19.416	0.16339	-0.0632	-0.033033	0.0161	0.042918
1e+12	19.445	19.564	19.614	0.07957	19.419	19.564	19.668	0.10867	-0.0421	0.000125	0.0614	0.04579
5e+12	19.36	19.517	19.809	0.2014	19.032	19.437	19.824	0.32919	-0.3811	-0.080325	0.0355	0.20083
1e+13	19.476	19.594	19.762	0.13361	19.51	19.634	19.852	0.15644	0.0027	0.0402	0.0899	0.036289

Device Test: 18.9; RESET_RPMOS_LOW_V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



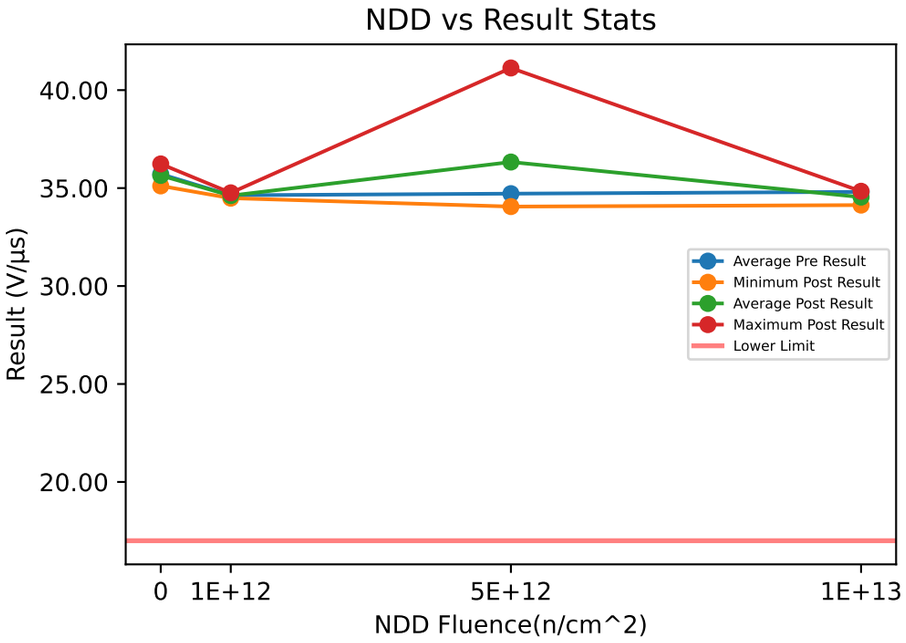
Test Results (Upper Limit = 40.0 (Ω))

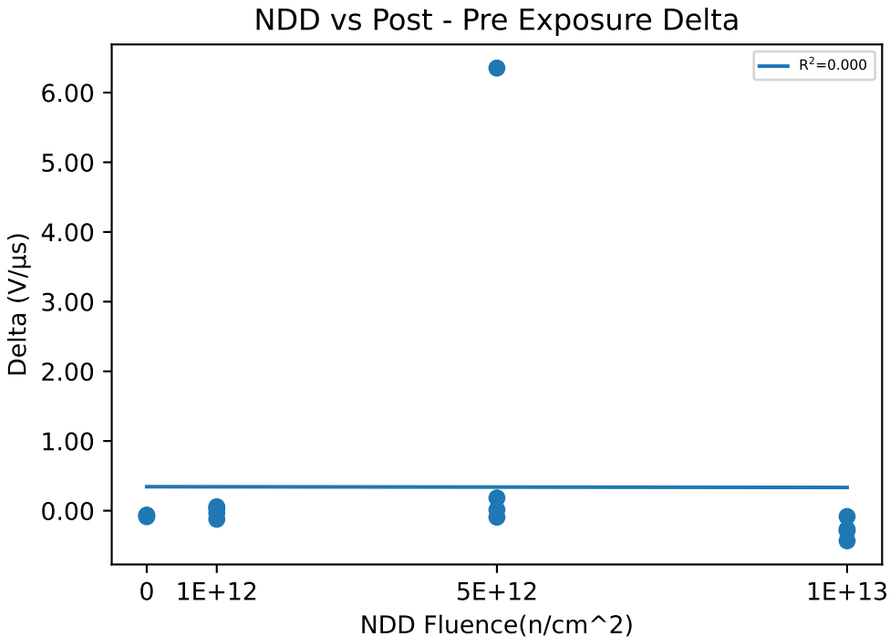
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	18.92	18.874	-0.0455
304	1e+12	NDD Unbiased	19.019	18.999	-0.0197
305	1e+12	NDD Unbiased	18.98	19.006	0.0261
306	1e+12	NDD Unbiased	18.869	18.858	-0.011
307	5e+12	NDD Unbiased	18.869	18.798	-0.0712
308	5e+12	NDD Unbiased	19.164	19.141	-0.0231
309	5e+12	NDD Unbiased	18.771	18.727	-0.0443
310	5e+12	NDD Unbiased	18.816	18.578	-0.2384
311	1e+13	NDD Unbiased	18.796	18.824	0.0281
312	1e+13	NDD Unbiased	18.892	18.917	0.0253
313	1e+13	NDD Unbiased	19.125	19.206	0.0811
314	1e+13	NDD Unbiased	18.983	19.007	0.0231
315	0	Correlation	18.593	18.55	-0.0427
316	0	Correlation	18.826	18.77	-0.0553
317	0	Correlation	18.402	18.423	0.0207

Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.402	18.607	18.826	0.21211	18.423	18.581	18.77	0.17584	-0.0553	-0.025767	0.0207	0.040731
1e+12	18.869	18.947	19.019	0.066047	18.858	18.934	19.006	0.079159	-0.0455	-0.012525	0.0261	0.029626
5e+12	18.771	18.905	19.164	0.17718	18.578	18.811	19.141	0.2384	-0.2384	-0.09425	-0.0231	0.098095
1e+13	18.796	18.949	19.125	0.13978	18.824	18.989	19.206	0.16282	0.0231	0.0394	0.0811	0.027875

Device Test: 19.1; RESET_SLEW_RATE_RISE





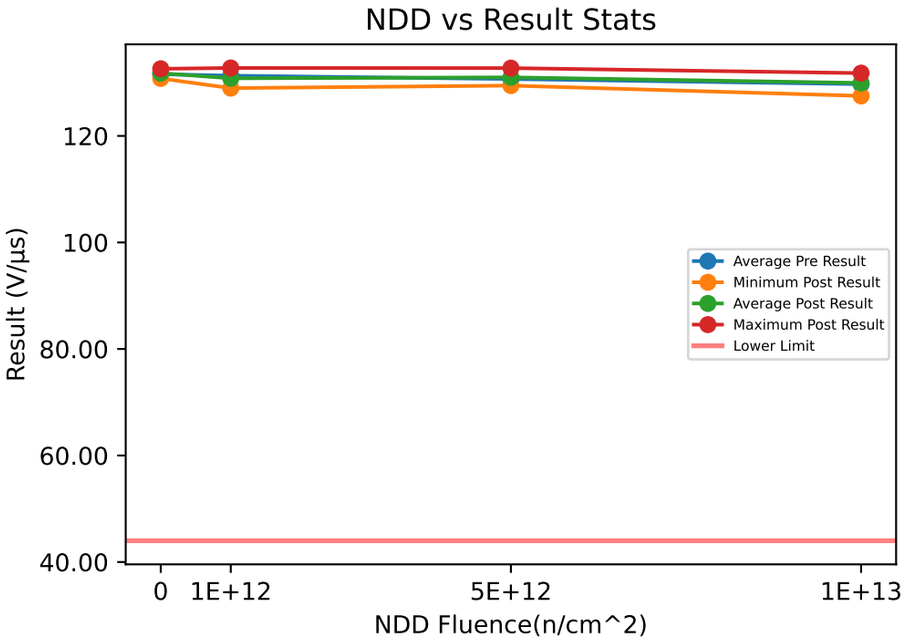
Test Results (Lower Limit = 17.0 (V/µs))

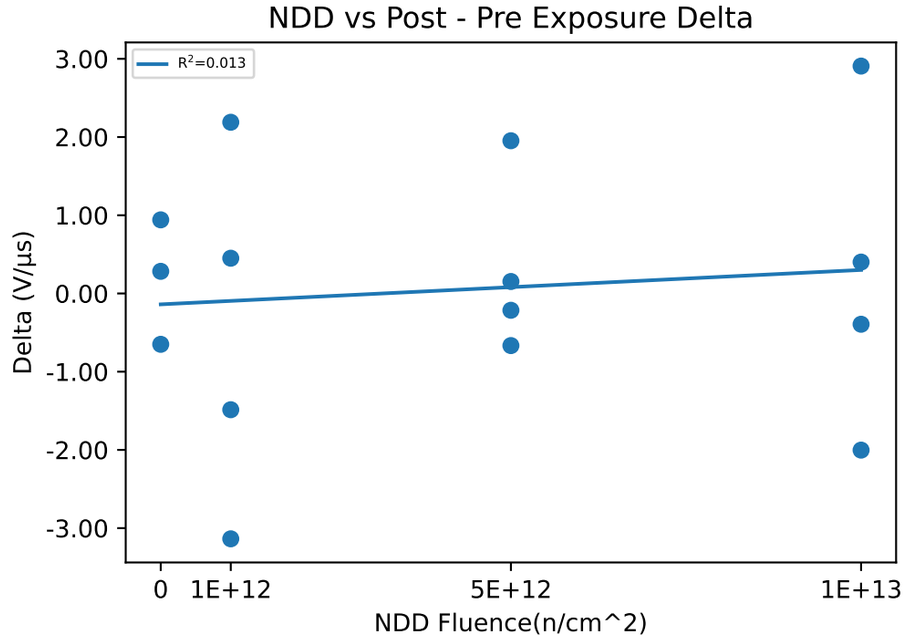
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	34.88	34.757	-0.123
304	1e+12	NDD Unbiased	34.687	34.651	-0.0357
305	1e+12	NDD Unbiased	34.428	34.485	0.0569
306	1e+12	NDD Unbiased	34.538	34.569	0.0318
307	5e+12	NDD Unbiased	34.985	34.892	-0.0932
308	5e+12	NDD Unbiased	34.042	34.056	0.0137
309	5e+12	NDD Unbiased	35.057	35.24	0.1837
310	5e+12	NDD Unbiased	34.779	41.13	6.3519
311	1e+13	NDD Unbiased	35.27	34.837	-0.4321
312	1e+13	NDD Unbiased	34.702	34.618	-0.0833
313	1e+13	NDD Unbiased	34.419	34.131	-0.2883
314	1e+13	NDD Unbiased	34.834	34.567	-0.2668
315	0	Correlation	35.654	35.589	-0.0651
316	0	Correlation	35.198	35.111	-0.0868
317	0	Correlation	36.298	36.233	-0.0647

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	35.198	35.717	36.298	0.5527	35.111	35.645	36.233	0.56314	-0.0868	-0.0722	-0.0647	0.012646
1e+12	34.428	34.633	34.88	0.19555	34.485	34.616	34.757	0.11588	-0.123	-0.0175	0.0569	0.080472
5e+12	34.042	34.716	35.057	0.46427	34.056	36.33	41.13	3.239	-0.0932	1.614	6.3519	3.1606
1e+13	34.419	34.806	35.27	0.35401	34.131	34.539	34.837	0.29581	-0.4321	-0.26762	-0.0833	0.14313

Device Test: 19.10; RESET_SLEW_RATE_FALL





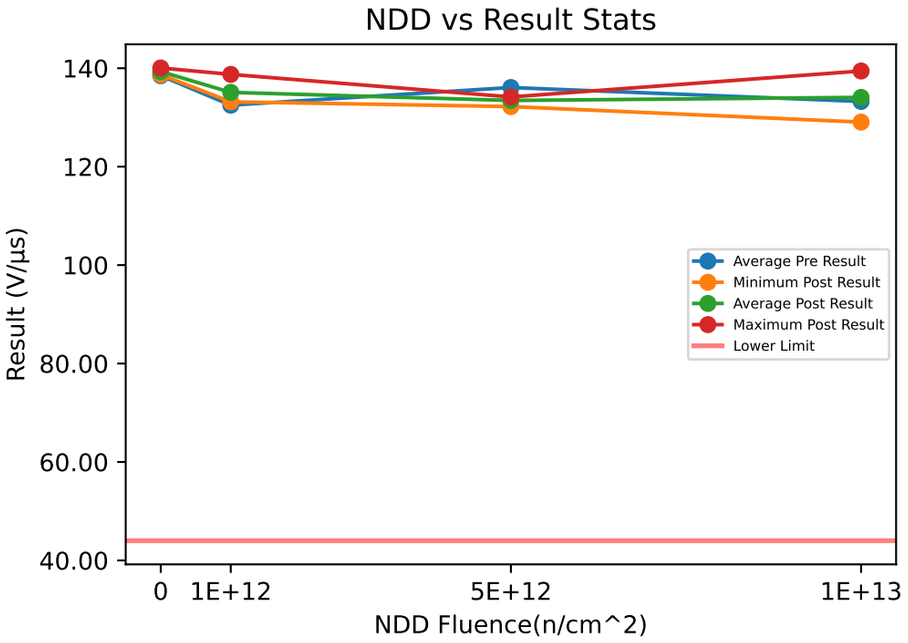
Test Results (Lower Limit = 44.0 (V/µs))

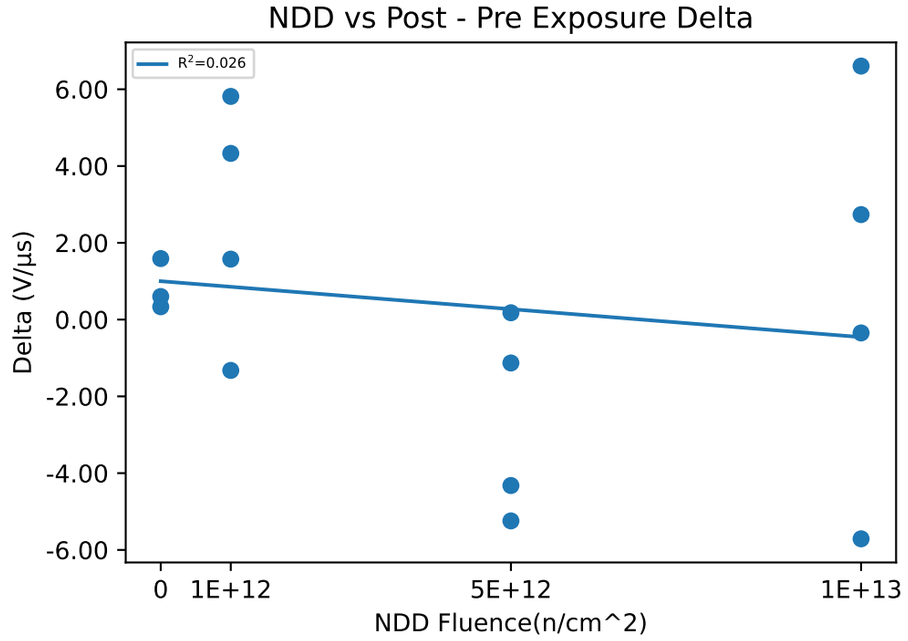
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	132.68	131.19	-1.4863
304	1e+12	NDD Unbiased	133.48	130.34	-3.1368
305	1e+12	NDD Unbiased	130.57	132.76	2.189
306	1e+12	NDD Unbiased	128.52	128.97	0.4507
307	5e+12	NDD Unbiased	130.24	129.58	-0.6662
308	5e+12	NDD Unbiased	130.25	132.2	1.9527
309	5e+12	NDD Unbiased	129.66	129.45	-0.2149
310	5e+12	NDD Unbiased	132.58	132.73	0.1531
311	1e+13	NDD Unbiased	131.91	131.52	-0.3934
312	1e+13	NDD Unbiased	130.96	128.96	-2.0027
313	1e+13	NDD Unbiased	127.11	127.51	0.4014
314	1e+13	NDD Unbiased	128.88	131.79	2.9073
315	0	Correlation	131	131.94	0.9413
316	0	Correlation	132.32	132.6	0.2831
317	0	Correlation	131.44	130.79	-0.65

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	131	131.59	132.32	0.67346	130.79	131.78	132.6	0.91879	-0.65	0.19147	0.9413	0.7996
1e+12	128.52	131.31	133.48	2.2288	128.97	130.82	132.76	1.5836	-3.1368	-0.49585	2.189	2.3137
5e+12	129.66	130.68	132.58	1.2933	129.45	130.99	132.73	1.72	-0.6662	0.30618	1.9527	1.1477
1e+13	127.11	129.72	131.91	2.1501	127.51	129.94	131.79	2.0639	-2.0027	0.22815	2.9073	2.047

Device Test: 19.11; PWRGD_SLEW_RATE_FALL





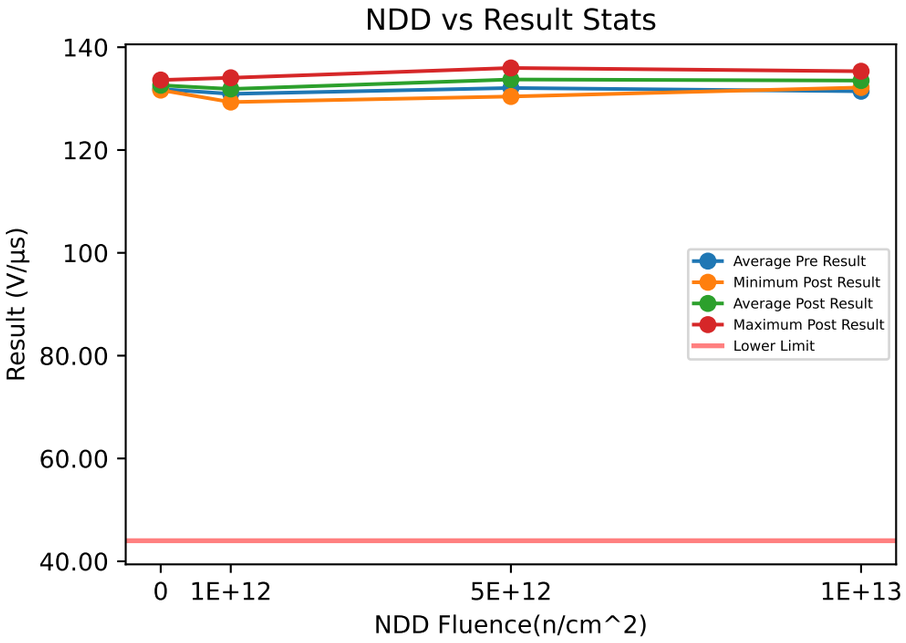
Test Results (Lower Limit = 44.0 (V/µs))

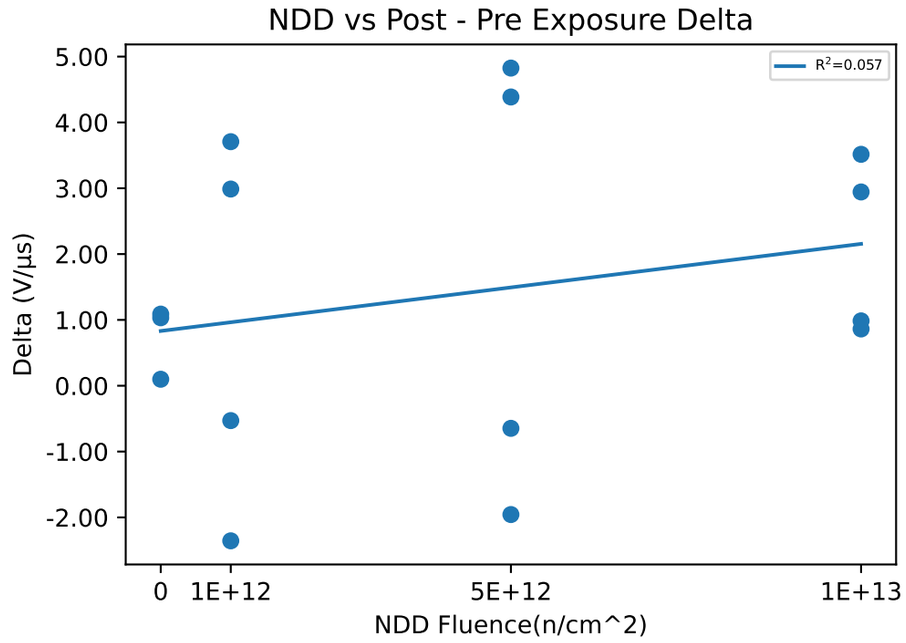
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	131.6	133.18	1.575
304	1e+12	NDD Unbiased	132.94	138.75	5.8137
305	1e+12	NDD Unbiased	130.79	135.12	4.3291
306	1e+12	NDD Unbiased	134.65	133.33	-1.3241
307	5e+12	NDD Unbiased	135.25	134.12	-1.1305
308	5e+12	NDD Unbiased	133.14	133.31	0.1777
309	5e+12	NDD Unbiased	137.45	132.21	-5.244
310	5e+12	NDD Unbiased	138.49	134.17	-4.3224
311	1e+13	NDD Unbiased	132.84	139.44	6.6037
312	1e+13	NDD Unbiased	132.89	132.54	-0.3478
313	1e+13	NDD Unbiased	132.53	135.27	2.7351
314	1e+13	NDD Unbiased	134.76	129.05	-5.7107
315	0	Correlation	139.72	140.05	0.3342
316	0	Correlation	138.62	139.22	0.6007
317	0	Correlation	137.1	138.69	1.5898

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	137.1	138.48	139.72	1.3158	138.69	139.32	140.05	0.68775	0.3342	0.84157	1.5898	0.66155
1e+12	130.79	132.5	134.65	1.6874	133.18	135.09	138.75	2.5932	-1.3241	2.5984	5.8137	3.15
5e+12	133.14	136.08	138.49	2.383	132.21	133.45	134.17	0.91673	-5.244	-2.6298	0.1777	2.5709
1e+13	132.53	133.25	134.76	1.018	129.05	134.07	139.44	4.3878	-5.7107	0.82007	6.6037	5.2004

Device Test: 19.12; WDO_SLEW_RATE_FALL





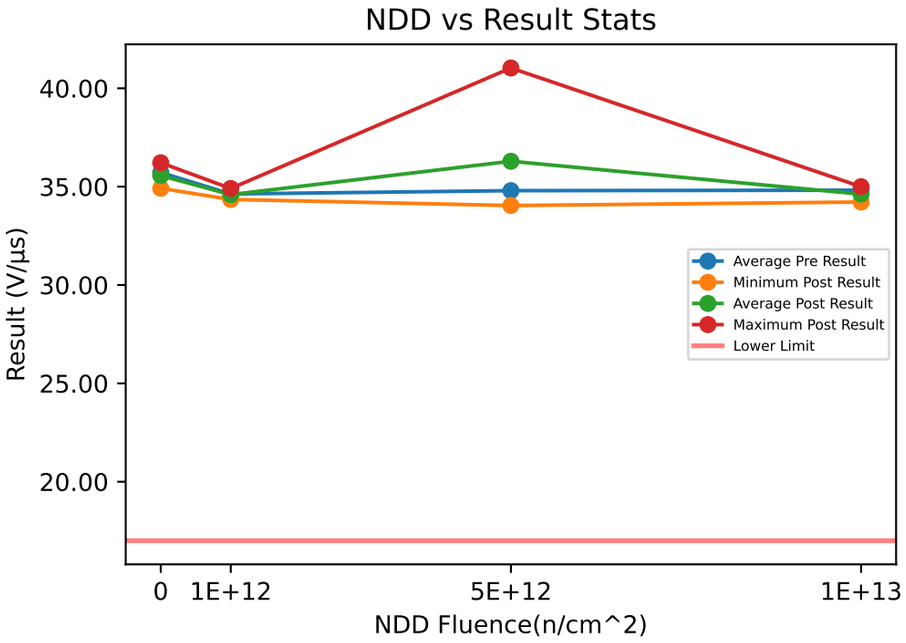
Test Results (Lower Limit = 44.0 (V/µs))

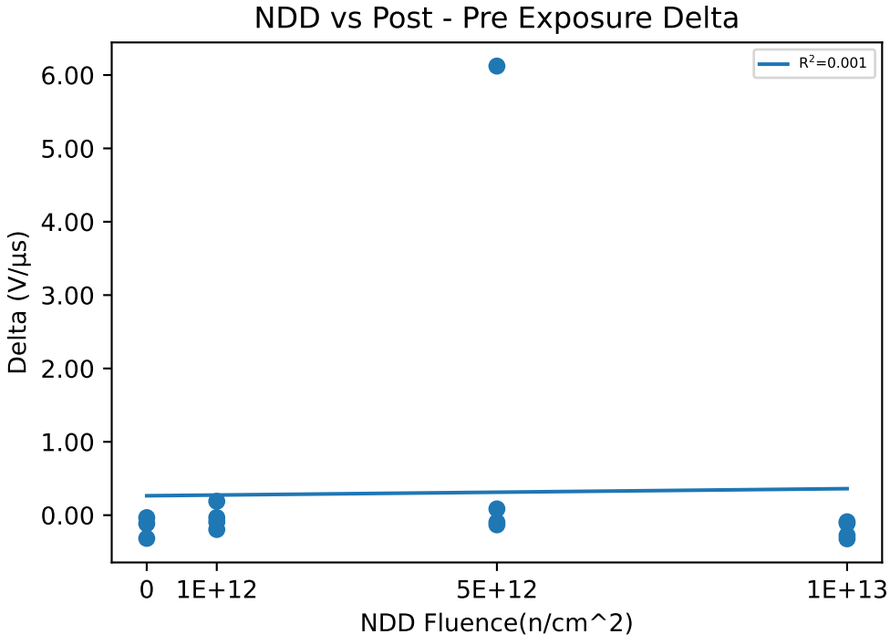
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	130.34	134.05	3.7074
304	1e+12	NDD Unbiased	132.34	131.81	-0.5296
305	1e+12	NDD Unbiased	129.33	132.31	2.9879
306	1e+12	NDD Unbiased	131.68	129.33	-2.3559
307	5e+12	NDD Unbiased	134.85	132.9	-1.9569
308	5e+12	NDD Unbiased	131.06	130.41	-0.6472
309	5e+12	NDD Unbiased	131.13	135.96	4.8255
310	5e+12	NDD Unbiased	131.23	135.61	4.3863
311	1e+13	NDD Unbiased	132.38	135.32	2.9436
312	1e+13	NDD Unbiased	131.17	132.16	0.9853
313	1e+13	NDD Unbiased	130.07	133.58	3.5153
314	1e+13	NDD Unbiased	132.1	132.96	0.8623
315	0	Correlation	131.41	132.5	1.088
316	0	Correlation	132.59	133.62	1.0327
317	0	Correlation	131.56	131.65	0.0986

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	131.41	131.85	132.59	0.63964	131.65	132.59	133.62	0.98504	0.0986	0.73977	1.088	0.55595
1e+12	129.33	130.92	132.34	1.3515	129.33	131.88	134.05	1.9498	-2.3559	0.95245	3.7074	2.8795
5e+12	131.06	132.07	134.85	1.8585	130.41	133.72	135.96	2.5967	-1.9569	1.6519	4.8255	3.4573
1e+13	130.07	131.43	132.38	1.0434	132.16	133.51	135.32	1.3426	0.8623	2.0766	3.5153	1.3524

Device Test: 19.13; RESET_SLEW_RATE_RISE





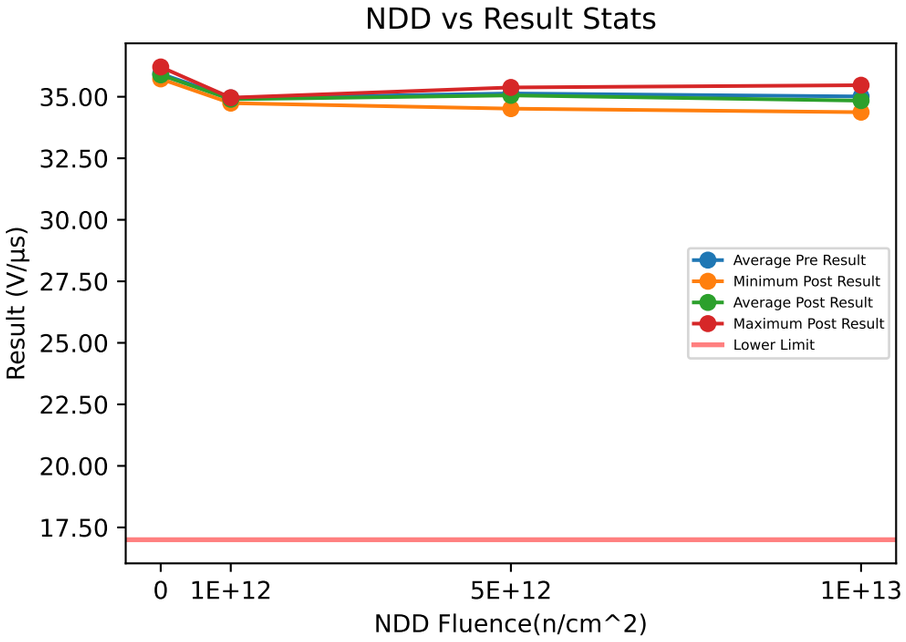
Test Results (Lower Limit = 17.0 (V/µs))

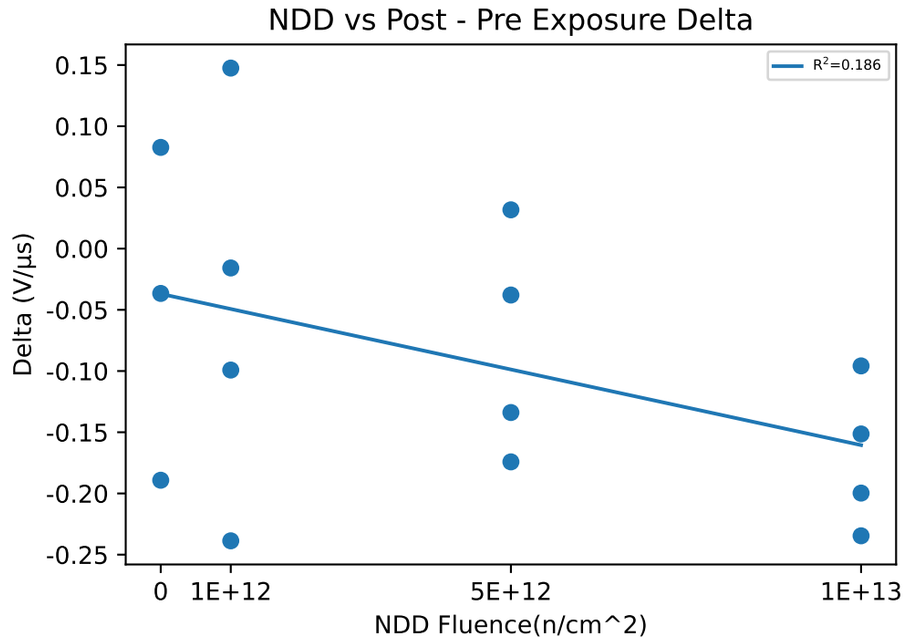
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	34.718	34.907	0.1891
304	1e+12	NDD Unbiased	34.606	34.513	-0.0929
305	1e+12	NDD Unbiased	34.545	34.35	-0.1953
306	1e+12	NDD Unbiased	34.642	34.611	-0.032
307	5e+12	NDD Unbiased	34.962	35.048	0.0856
308	5e+12	NDD Unbiased	34.172	34.04	-0.1319
309	5e+12	NDD Unbiased	35.141	35.046	-0.0955
310	5e+12	NDD Unbiased	34.911	41.034	6.1222
311	1e+13	NDD Unbiased	35.273	34.998	-0.2749
312	1e+13	NDD Unbiased	34.83	34.72	-0.1095
313	1e+13	NDD Unbiased	34.541	34.219	-0.3224
314	1e+13	NDD Unbiased	34.634	34.544	-0.0901
315	0	Correlation	35.594	35.561	-0.0335
316	0	Correlation	35.231	34.915	-0.3164
317	0	Correlation	36.33	36.215	-0.1153

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	35.231	35.718	36.33	0.56016	34.915	35.563	36.215	0.65025	-0.3164	-0.15507	-0.0335	0.14558
1e+12	34.545	34.628	34.718	0.072383	34.35	34.595	34.907	0.23428	-0.1953	-0.032775	0.1891	0.16254
5e+12	34.172	34.797	35.141	0.42807	34.04	36.292	41.034	3.1967	-0.1319	1.4951	6.1222	3.0862
1e+13	34.541	34.819	35.273	0.32532	34.219	34.62	34.998	0.32641	-0.3224	-0.19923	-0.0901	0.1167

Device Test: 19.14; RESET_SLEW_RATE_RISE





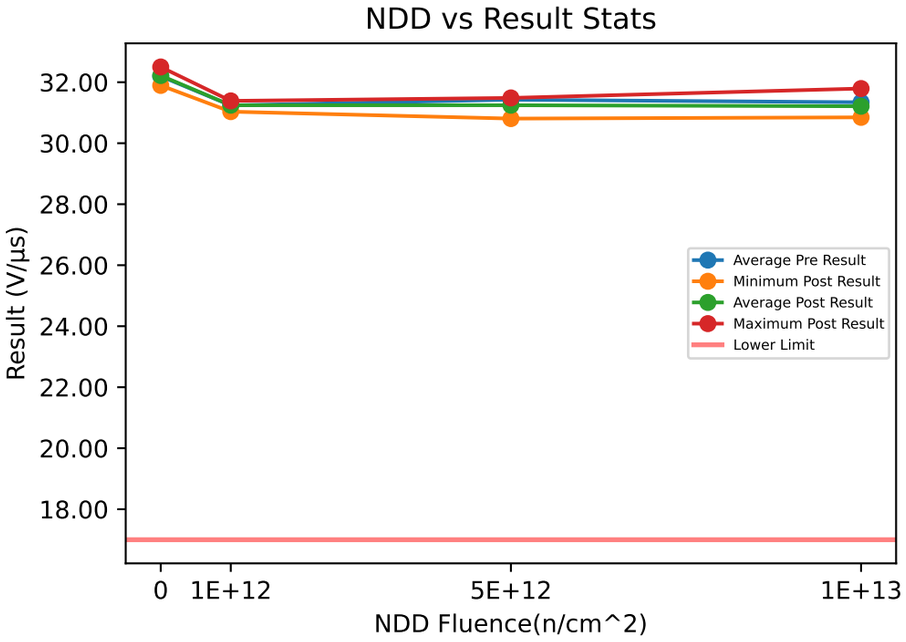
Test Results (Lower Limit = 17.0 (V/µs))

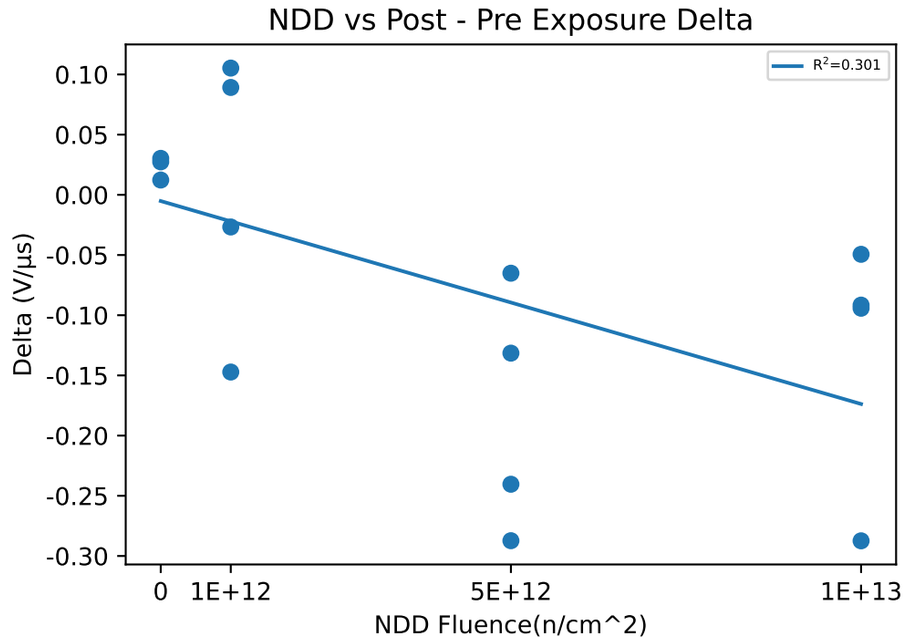
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	34.95	34.935	-0.0158
304	1e+12	NDD Unbiased	34.809	34.956	0.1475
305	1e+12	NDD Unbiased	34.979	34.74	-0.2387
306	1e+12	NDD Unbiased	35.061	34.962	-0.0992
307	5e+12	NDD Unbiased	35.173	35.039	-0.1339
308	5e+12	NDD Unbiased	34.484	34.516	0.0317
309	5e+12	NDD Unbiased	35.552	35.378	-0.1742
310	5e+12	NDD Unbiased	35.325	35.287	-0.0379
311	1e+13	NDD Unbiased	35.565	35.469	-0.0958
312	1e+13	NDD Unbiased	35.01	34.858	-0.1514
313	1e+13	NDD Unbiased	34.607	34.372	-0.2346
314	1e+13	NDD Unbiased	34.866	34.666	-0.1997
315	0	Correlation	35.766	35.729	-0.0366
316	0	Correlation	35.643	35.725	0.0827
317	0	Correlation	36.399	36.21	-0.1892

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	35.643	35.936	36.399	0.40591	35.725	35.888	36.21	0.27869	-0.1892	-0.0477	0.0827	0.13629
1e+12	34.809	34.95	35.061	0.10491	34.74	34.898	34.962	0.10599	-0.2387	-0.05155	0.1475	0.16145
5e+12	34.484	35.133	35.552	0.45994	34.516	35.055	35.378	0.38671	-0.1742	-0.078575	0.0317	0.093131
1e+13	34.607	35.012	35.565	0.40454	34.372	34.841	35.469	0.46362	-0.2346	-0.17037	-0.0958	0.060295

Device Test: 19.15; RESET_SLEW_RATE_RISE





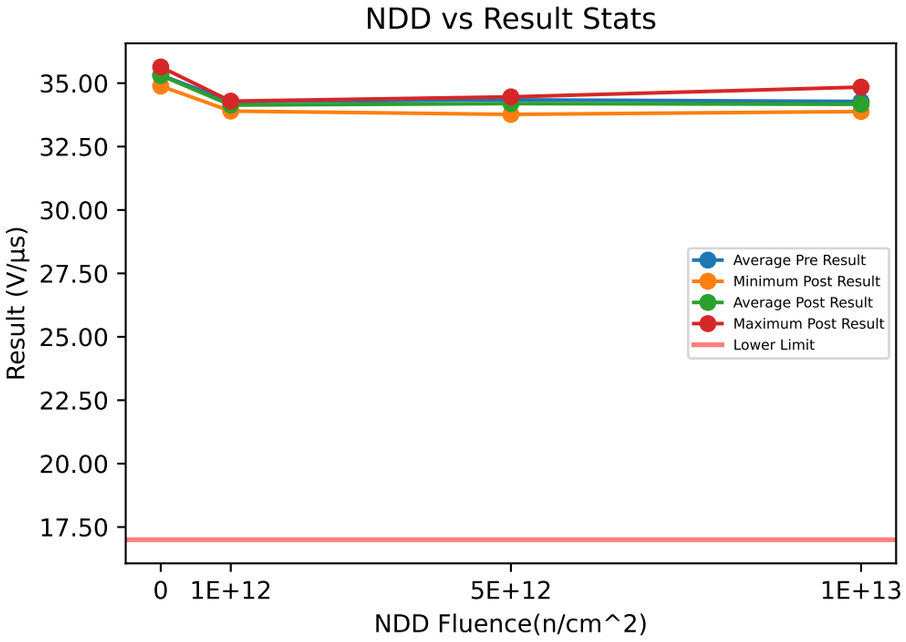
Test Results (Lower Limit = 17.0 (V/µs))

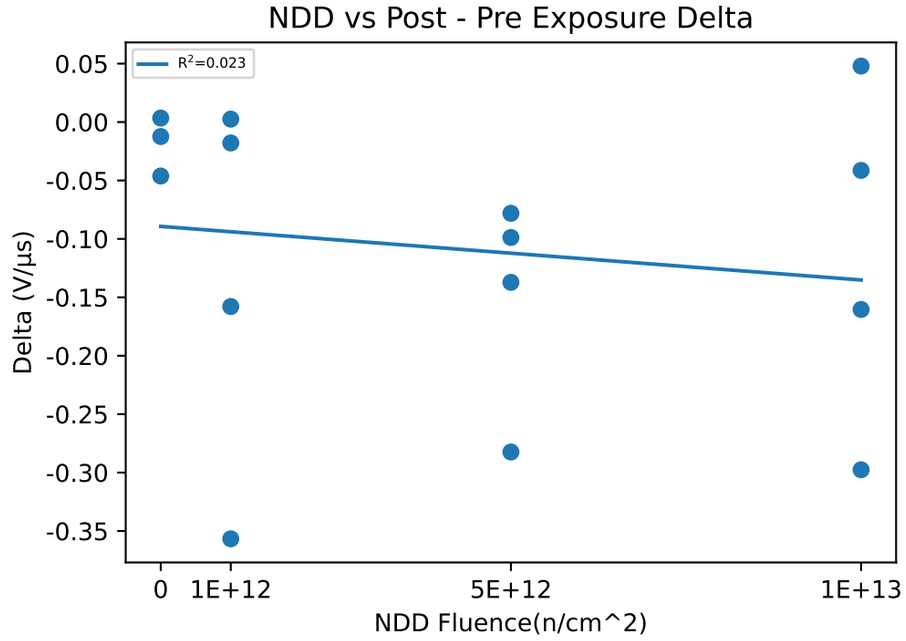
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	31.282	31.388	0.1053
304	1e+12	NDD Unbiased	31.197	31.286	0.0892
305	1e+12	NDD Unbiased	31.182	31.035	-0.1472
306	1e+12	NDD Unbiased	31.299	31.272	-0.0267
307	5e+12	NDD Unbiased	31.511	31.379	-0.1315
308	5e+12	NDD Unbiased	30.872	30.807	-0.0651
309	5e+12	NDD Unbiased	31.772	31.485	-0.2873
310	5e+12	NDD Unbiased	31.55	31.309	-0.2404
311	1e+13	NDD Unbiased	31.884	31.792	-0.0916
312	1e+13	NDD Unbiased	31.364	31.076	-0.2874
313	1e+13	NDD Unbiased	30.897	30.848	-0.0494
314	1e+13	NDD Unbiased	31.224	31.13	-0.0942
315	0	Correlation	32.234	32.261	0.0274
316	0	Correlation	31.864	31.895	0.0303
317	0	Correlation	32.487	32.499	0.0123

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	31.864	32.195	32.487	0.31319	31.895	32.218	32.499	0.30465	0.0123	0.023333	0.0303	0.0096645
1e+12	31.182	31.24	31.299	0.05911	31.035	31.245	31.388	0.14947	-0.1472	0.00515	0.1053	0.11736
5e+12	30.872	31.426	31.772	0.38687	30.807	31.245	31.485	0.30079	-0.2873	-0.18107	-0.0651	0.10118
1e+13	30.897	31.342	31.884	0.41052	30.848	31.211	31.792	0.40586	-0.2874	-0.13065	-0.0494	0.1065

Device Test: 19.16; RESET_SLEW_RATE_RISE





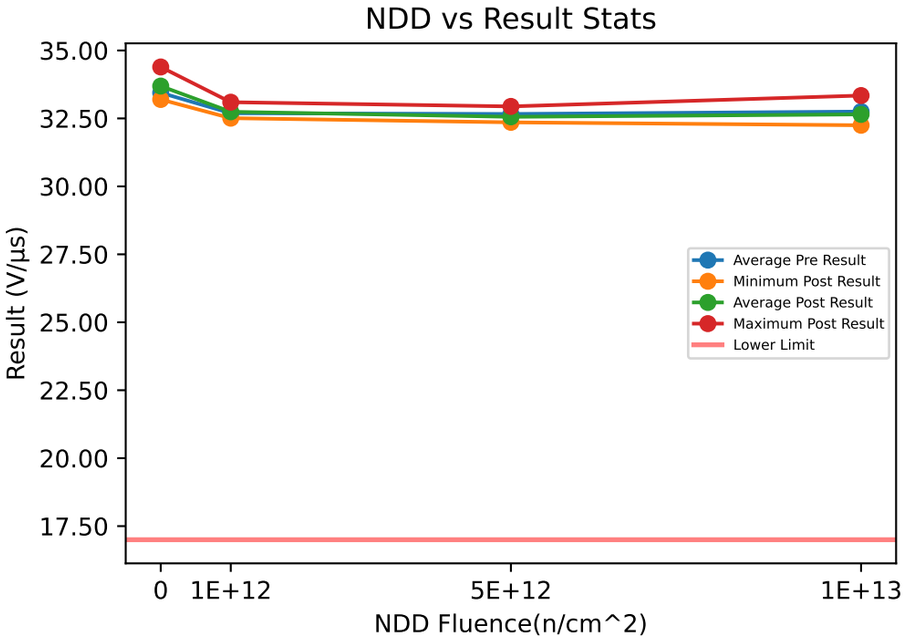
Test Results (Lower Limit = 17.0 (V/µs))

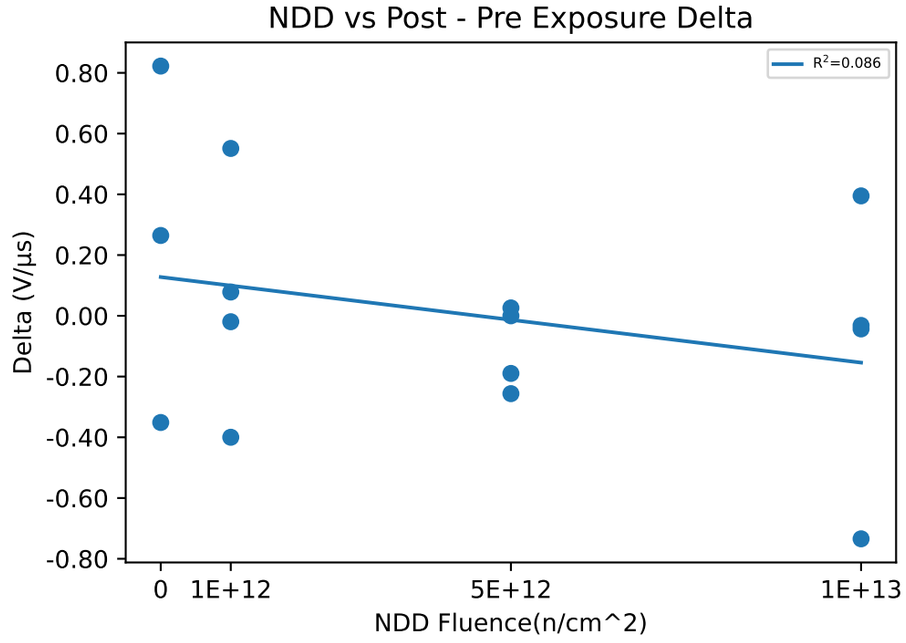
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	34.398	34.24	-0.1579
304	1e+12	NDD Unbiased	34.467	34.11	-0.3567
305	1e+12	NDD Unbiased	33.917	33.899	-0.0179
306	1e+12	NDD Unbiased	34.288	34.291	0.0025
307	5e+12	NDD Unbiased	34.516	34.234	-0.2824
308	5e+12	NDD Unbiased	33.905	33.768	-0.1372
309	5e+12	NDD Unbiased	34.558	34.46	-0.0988
310	5e+12	NDD Unbiased	34.394	34.316	-0.0781
311	1e+13	NDD Unbiased	34.886	34.844	-0.0414
312	1e+13	NDD Unbiased	34.062	33.901	-0.1604
313	1e+13	NDD Unbiased	33.834	33.882	0.0479
314	1e+13	NDD Unbiased	34.334	34.037	-0.2976
315	0	Correlation	35.401	35.389	-0.0124
316	0	Correlation	34.883	34.887	0.0034
317	0	Correlation	35.684	35.638	-0.0462

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	34.883	35.323	35.684	0.40623	34.887	35.304	35.638	0.38275	-0.0462	-0.0184	0.0034	0.025339
1e+12	33.917	34.268	34.467	0.24492	33.899	34.135	34.291	0.17465	-0.3567	-0.1325	0.0025	0.1656
5e+12	33.905	34.343	34.558	0.30049	33.768	34.194	34.46	0.29932	-0.2824	-0.14912	-0.0781	0.092162
1e+13	33.834	34.279	34.886	0.45341	33.882	34.166	34.844	0.4575	-0.2976	-0.11288	0.0479	0.14982

Device Test: 19.17; PWRGD_SLEW_RATE_RISE





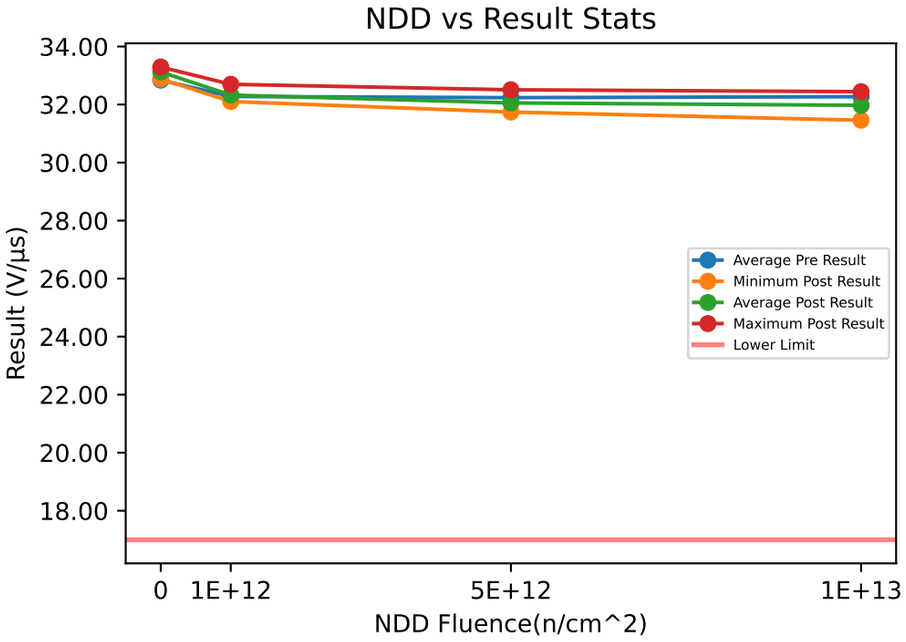
Test Results (Lower Limit = 17.0 (V/µs))

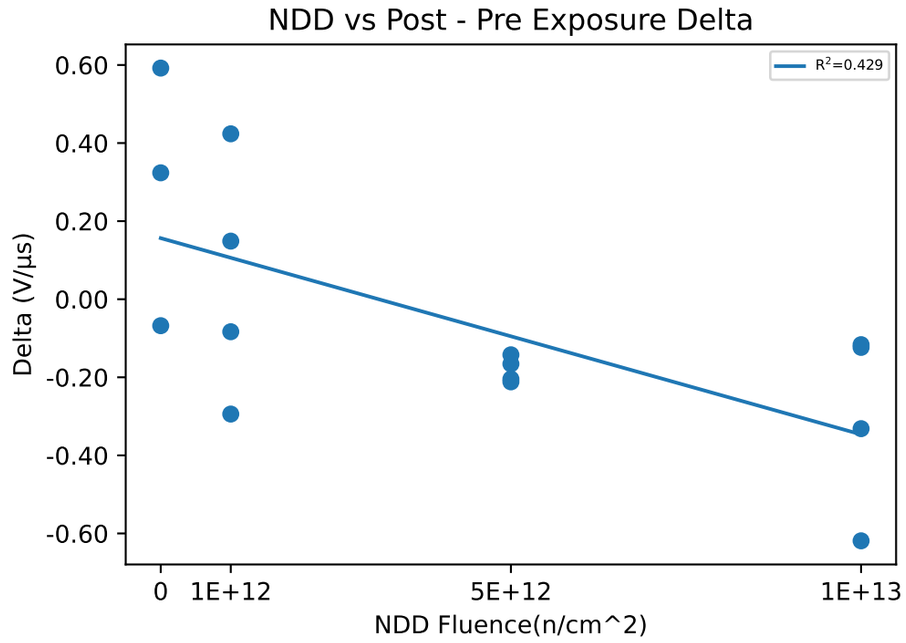
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	33.116	33.097	-0.0195
304	1e+12	NDD Unbiased	32.701	32.779	0.0783
305	1e+12	NDD Unbiased	32.038	32.589	0.5511
306	1e+12	NDD Unbiased	32.909	32.509	-0.3999
307	5e+12	NDD Unbiased	32.545	32.356	-0.1897
308	5e+12	NDD Unbiased	32.627	32.371	-0.2563
309	5e+12	NDD Unbiased	32.566	32.566	0
310	5e+12	NDD Unbiased	32.915	32.941	0.026
311	1e+13	NDD Unbiased	32.946	33.341	0.3949
312	1e+13	NDD Unbiased	32.547	32.504	-0.0432
313	1e+13	NDD Unbiased	32.28	32.248	-0.0317
314	1e+13	NDD Unbiased	33.232	32.498	-0.7343
315	0	Correlation	33.57	34.393	0.8223
316	0	Correlation	32.933	33.197	0.2645
317	0	Correlation	33.831	33.479	-0.3513

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	32.933	33.445	33.831	0.46186	33.197	33.69	34.393	0.62478	-0.3513	0.24517	0.8223	0.58704
1e+12	32.038	32.691	33.116	0.46722	32.509	32.743	33.097	0.26126	-0.3999	0.0525	0.5511	0.3912
5e+12	32.545	32.663	32.915	0.17152	32.356	32.558	32.941	0.27268	-0.2563	-0.105	0.026	0.13935
1e+13	32.28	32.751	33.232	0.4213	32.248	32.648	33.341	0.47721	-0.7343	-0.10358	0.3949	0.4673

Device Test: 19.18; WDO_SLEW_RATE_RISE





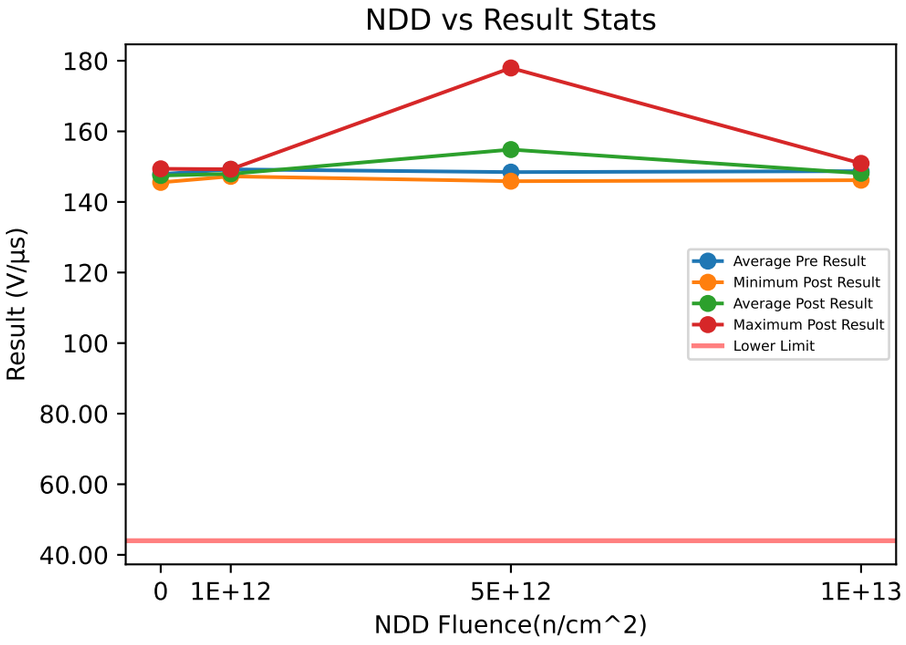
Test Results (Lower Limit = 17.0 (V/µs))

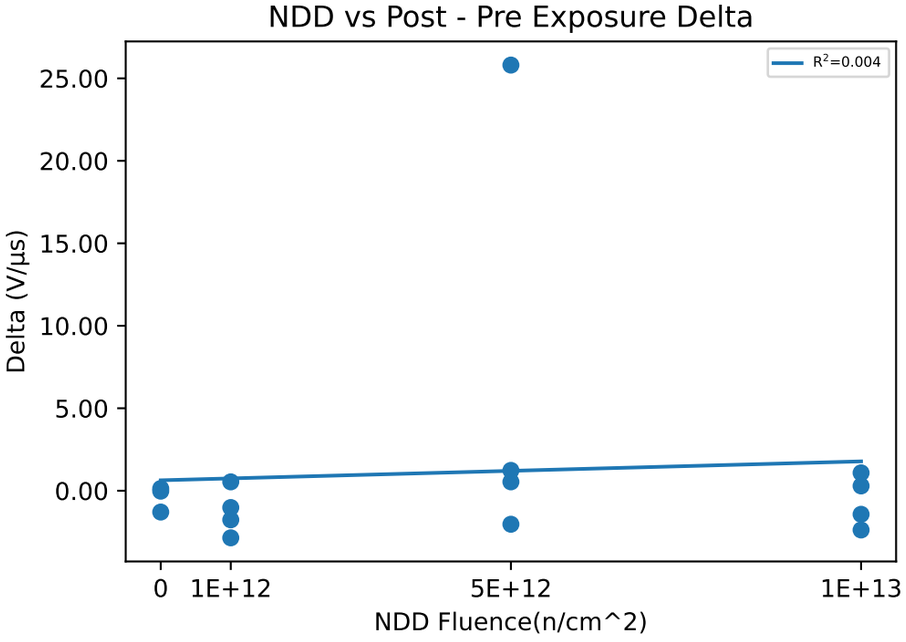
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	32.514	32.219	-0.2942
304	1e+12	NDD Unbiased	32.139	32.288	0.1488
305	1e+12	NDD Unbiased	32.188	32.104	-0.0833
306	1e+12	NDD Unbiased	32.274	32.698	0.4237
307	5e+12	NDD Unbiased	32.158	31.992	-0.1657
308	5e+12	NDD Unbiased	31.884	31.741	-0.1424
309	5e+12	NDD Unbiased	32.72	32.509	-0.2117
310	5e+12	NDD Unbiased	32.186	31.981	-0.2044
311	1e+13	NDD Unbiased	32.567	32.444	-0.1234
312	1e+13	NDD Unbiased	32.176	32.06	-0.1164
313	1e+13	NDD Unbiased	31.79	31.459	-0.3316
314	1e+13	NDD Unbiased	32.55	31.931	-0.6189
315	0	Correlation	32.952	32.884	-0.0678
316	0	Correlation	32.602	33.194	0.5921
317	0	Correlation	32.971	33.295	0.3238

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	32.602	32.842	32.971	0.20747	32.884	33.124	33.295	0.21433	-0.0678	0.2827	0.5921	0.33186
1e+12	32.139	32.279	32.514	0.16636	32.104	32.327	32.698	0.25821	-0.2942	0.04875	0.4237	0.30857
5e+12	31.884	32.237	32.72	0.35001	31.741	32.056	32.509	0.32339	-0.2117	-0.18105	-0.1424	0.032732
1e+13	31.79	32.271	32.567	0.36771	31.459	31.973	32.444	0.40644	-0.6189	-0.29757	-0.1164	0.23634

Device Test: 19.19; RESET_SLEW_RATE_FALL





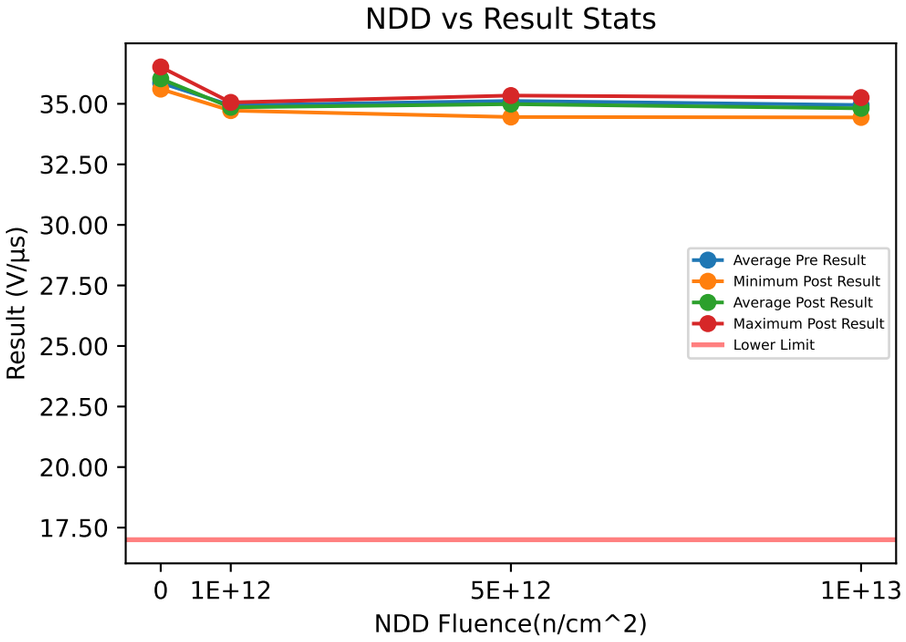
Test Results (Lower Limit = 44.0 (V/µs))

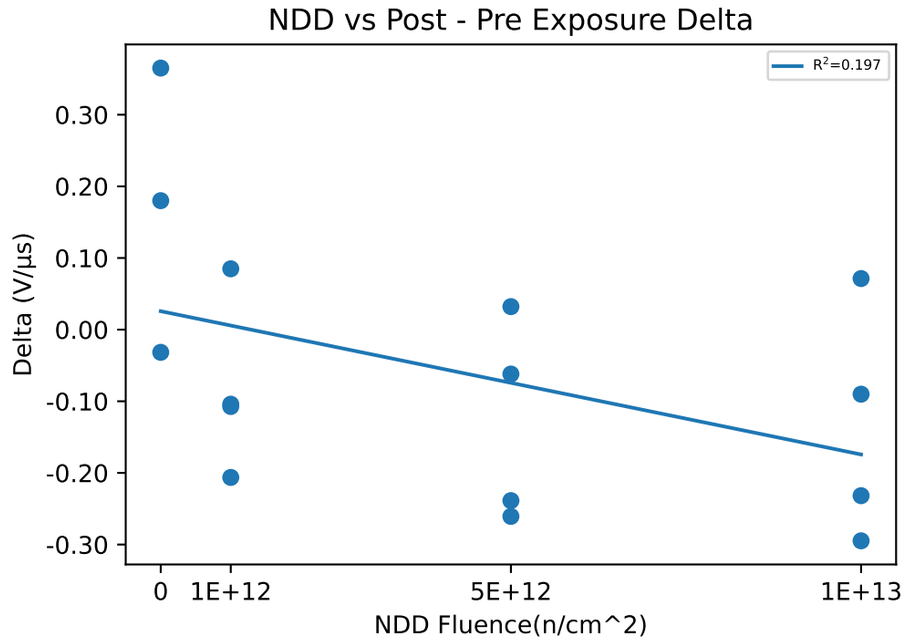
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	148.73	149.27	0.5378
304	1e+12	NDD Unbiased	149.07	148.06	-1.019
305	1e+12	NDD Unbiased	150.1	147.24	-2.8542
306	1e+12	NDD Unbiased	149.01	147.25	-1.7618
307	5e+12	NDD Unbiased	147.91	145.87	-2.0315
308	5e+12	NDD Unbiased	147.02	148.26	1.2327
309	5e+12	NDD Unbiased	146.72	147.26	0.5388
310	5e+12	NDD Unbiased	152.16	177.96	25.804
311	1e+13	NDD Unbiased	149.84	150.92	1.0844
312	1e+13	NDD Unbiased	150.42	148.99	-1.4289
313	1e+13	NDD Unbiased	146.11	146.4	0.2923
314	1e+13	NDD Unbiased	148.54	146.16	-2.3783
315	0	Correlation	149.25	149.38	0.1359
316	0	Correlation	145.56	145.54	-0.0256
317	0	Correlation	148.84	147.55	-1.2925

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	145.56	147.89	149.25	2.0209	145.54	147.49	149.38	1.924	-1.2925	-0.39407	0.1359	0.78225
1e+12	148.73	149.23	150.1	0.59942	147.24	147.95	149.27	0.9559	-2.8542	-1.2743	0.5378	1.4239
5e+12	146.72	148.45	152.16	2.5192	145.87	154.84	177.96	15.445	-2.0315	6.3861	25.804	13.021
1e+13	146.11	148.73	150.42	1.913	146.16	148.12	150.92	2.2666	-2.3783	-0.60762	1.0844	1.5793

Device Test: 19.2; RESET_SLEW_RATE_RISE





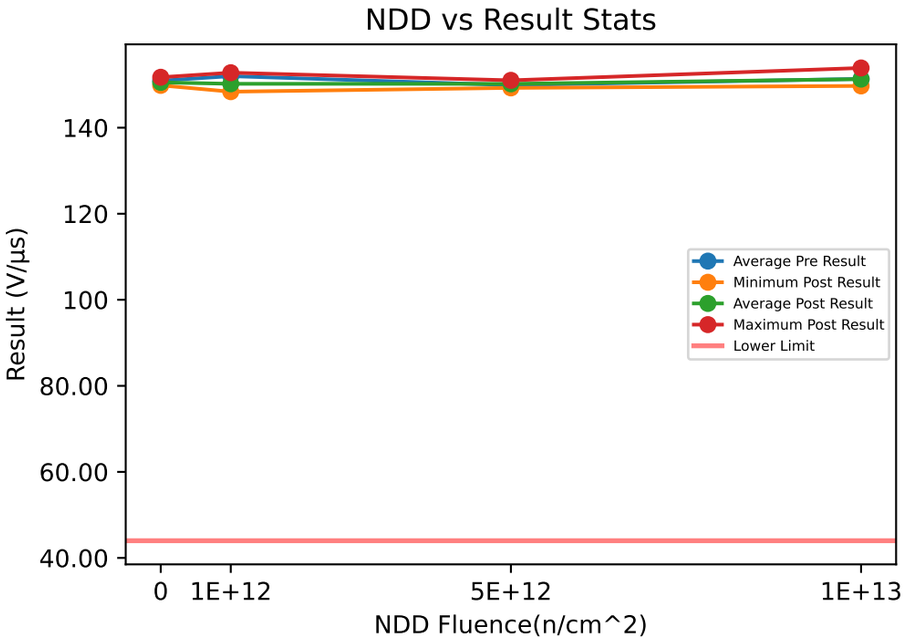
Test Results (Lower Limit = 17.0 (V/µs))

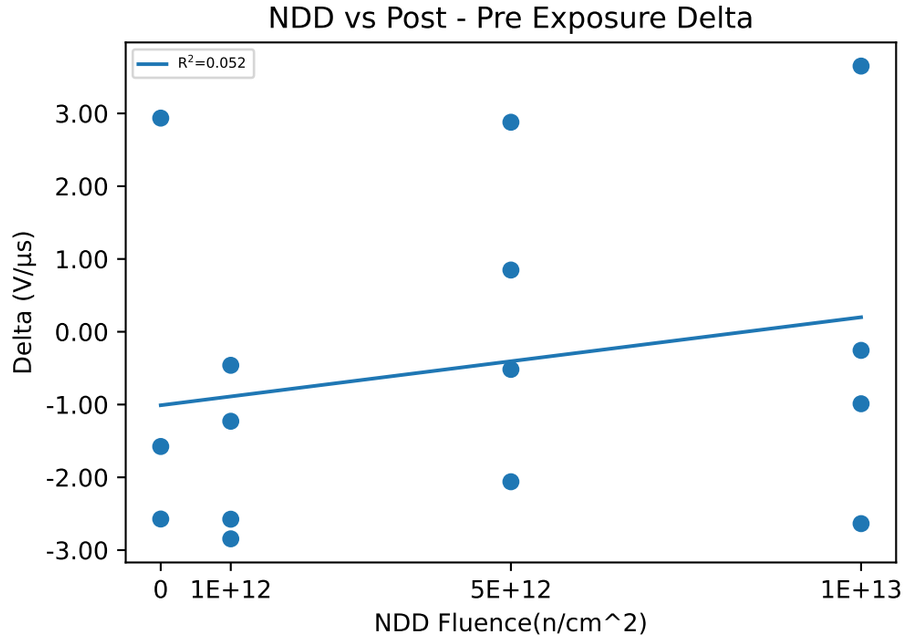
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	34.962	34.756	-0.2063
304	1e+12	NDD Unbiased	34.993	34.889	-0.1041
305	1e+12	NDD Unbiased	34.828	34.72	-0.1073
306	1e+12	NDD Unbiased	34.973	35.058	0.0849
307	5e+12	NDD Unbiased	35.176	34.915	-0.2607
308	5e+12	NDD Unbiased	34.423	34.455	0.0321
309	5e+12	NDD Unbiased	35.58	35.341	-0.2387
310	5e+12	NDD Unbiased	35.298	35.236	-0.062
311	1e+13	NDD Unbiased	35.551	35.256	-0.2948
312	1e+13	NDD Unbiased	34.812	34.884	0.0713
313	1e+13	NDD Unbiased	34.529	34.439	-0.0901
314	1e+13	NDD Unbiased	34.908	34.676	-0.2318
315	0	Correlation	35.795	35.975	0.18
316	0	Correlation	35.64	35.608	-0.0317
317	0	Correlation	36.157	36.522	0.3651

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	35.64	35.864	36.157	0.26518	35.608	36.035	36.522	0.45971	-0.0317	0.17113	0.3651	0.19855
1e+12	34.828	34.939	34.993	0.075269	34.72	34.856	35.058	0.15311	-0.2063	-0.0832	0.0849	0.12169
5e+12	34.423	35.119	35.58	0.49412	34.455	34.987	35.341	0.39823	-0.2607	-0.13232	0.0321	0.14116
1e+13	34.529	34.95	35.551	0.43168	34.439	34.814	35.256	0.34639	-0.2948	-0.13635	0.0713	0.16276

Device Test: 19.20; RESET_SLEW_RATE_FALL





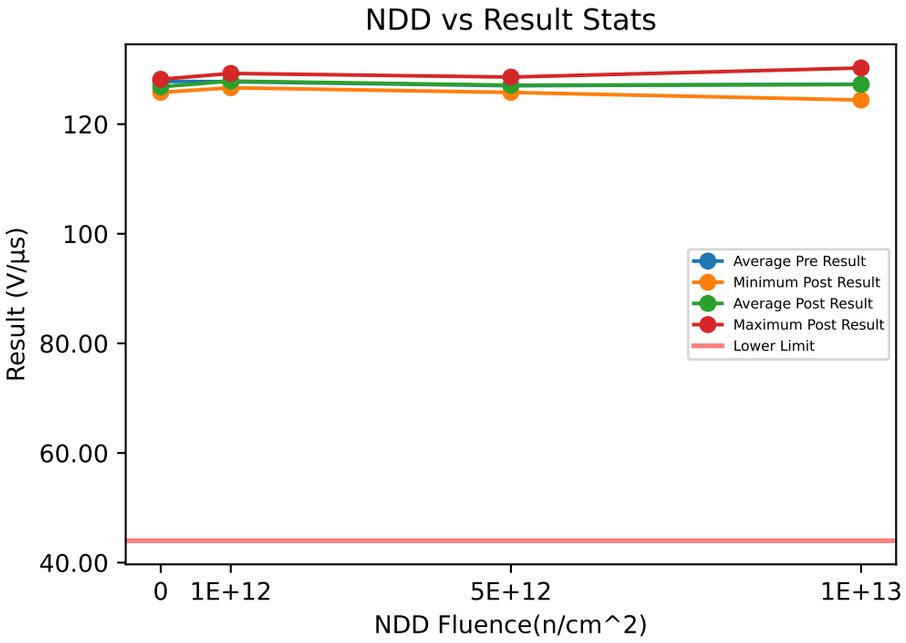
Test Results (Lower Limit = 44.0 (V/µs))

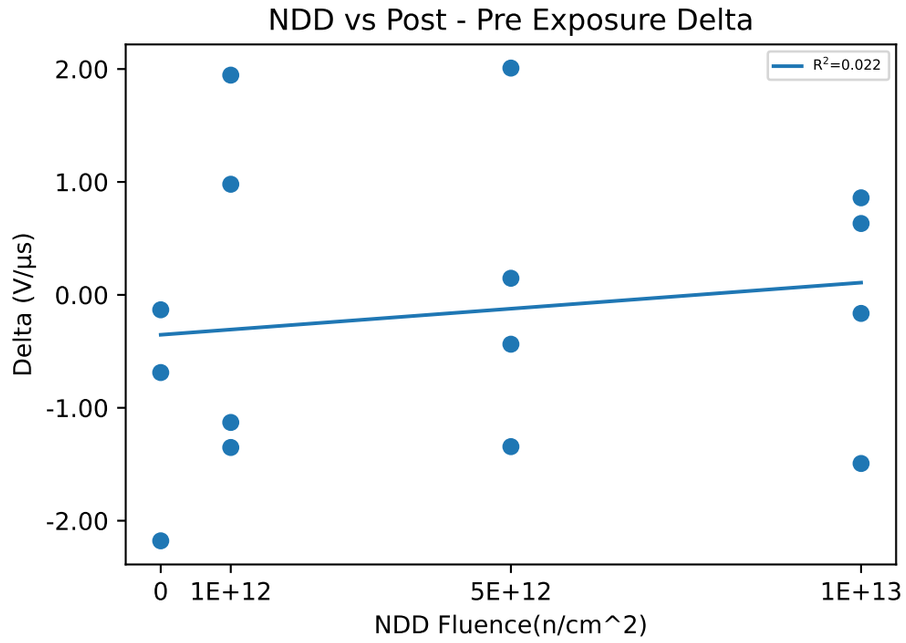
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	153.24	152.78	-0.4609
304	1e+12	NDD Unbiased	152.44	151.21	-1.2296
305	1e+12	NDD Unbiased	151.21	148.37	-2.845
306	1e+12	NDD Unbiased	151.02	148.45	-2.5754
307	5e+12	NDD Unbiased	147.35	150.23	2.8788
308	5e+12	NDD Unbiased	150.16	151.01	0.848
309	5e+12	NDD Unbiased	151.31	149.25	-2.0609
310	5e+12	NDD Unbiased	150.78	150.27	-0.5175
311	1e+13	NDD Unbiased	154.13	153.88	-0.2558
312	1e+13	NDD Unbiased	152.34	149.71	-2.6363
313	1e+13	NDD Unbiased	146.62	150.27	3.6504
314	1e+13	NDD Unbiased	152.28	151.29	-0.9892
315	0	Correlation	152.58	150.01	-2.5729
316	0	Correlation	148.78	151.72	2.9357
317	0	Correlation	151.41	149.83	-1.5764

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	148.78	150.93	152.58	1.944	149.83	150.52	151.72	1.0425	-2.5729	-0.40453	2.9357	2.9353
1e+12	151.02	151.98	153.24	1.048	148.37	150.2	152.78	2.1667	-2.845	-1.7777	-0.4609	1.1269
5e+12	147.35	149.9	151.31	1.7625	149.25	150.19	151.01	0.72096	-2.0609	0.2871	2.8788	2.097
1e+13	146.62	151.34	154.13	3.2633	149.71	151.29	153.88	1.8474	-2.6363	-0.057725	3.6504	2.665

Device Test: 19.21; RESET_SLEW_RATE_FALL





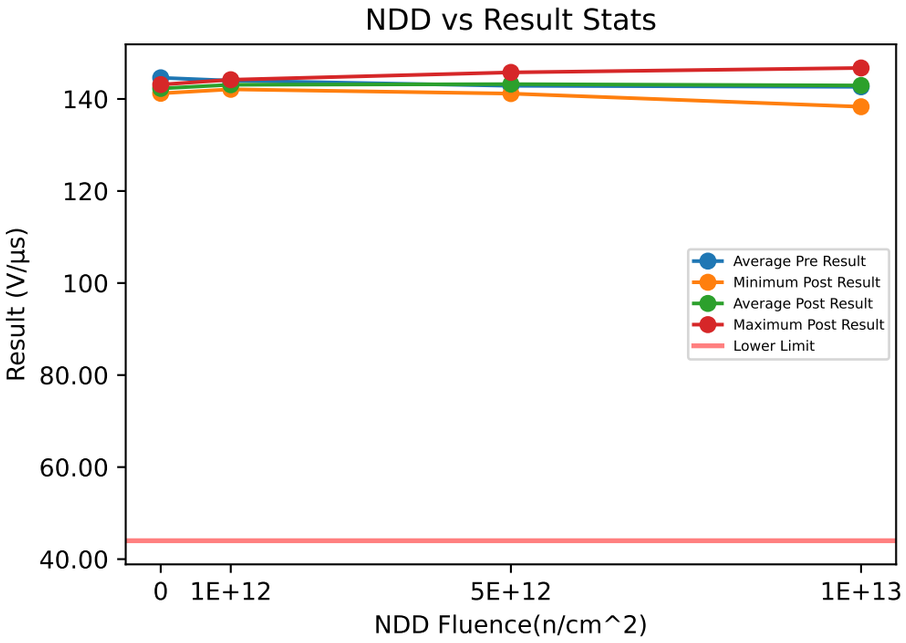
Test Results (Lower Limit = 44.0 (V/µs))

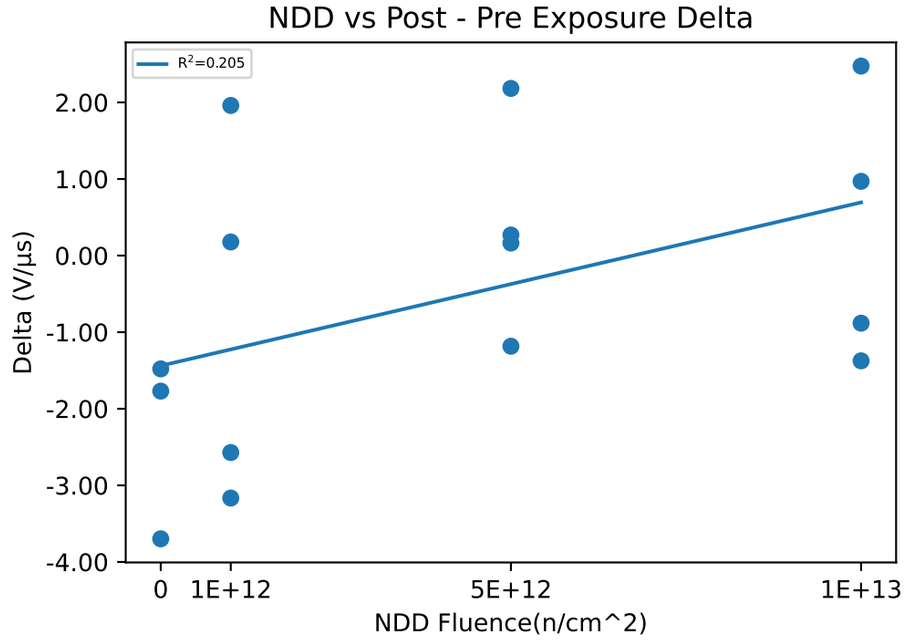
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	129.04	127.91	-1.1298
304	1e+12	NDD Unbiased	128.27	129.25	0.9796
305	1e+12	NDD Unbiased	125.67	127.62	1.9459
306	1e+12	NDD Unbiased	127.99	126.64	-1.3515
307	5e+12	NDD Unbiased	126.22	125.78	-0.4369
308	5e+12	NDD Unbiased	126.58	128.59	2.0085
309	5e+12	NDD Unbiased	127.2	125.86	-1.344
310	5e+12	NDD Unbiased	128.03	128.18	0.1471
311	1e+13	NDD Unbiased	129.39	130.25	0.8595
312	1e+13	NDD Unbiased	126.52	126.36	-0.1642
313	1e+13	NDD Unbiased	125.89	124.4	-1.4933
314	1e+13	NDD Unbiased	127.29	127.92	0.632
315	0	Correlation	127.97	125.8	-2.1781
316	0	Correlation	128.31	128.18	-0.1321
317	0	Correlation	127.13	126.44	-0.6879

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	127.13	127.81	128.31	0.60955	125.8	126.81	128.18	1.2337	-2.1781	-0.99937	-0.1321	1.058
1e+12	125.67	127.74	129.04	1.4497	126.64	127.85	129.25	1.0798	-1.3515	0.11105	1.9459	1.6124
5e+12	126.22	127.01	128.03	0.79364	125.78	127.1	128.59	1.4878	-1.344	0.093675	2.0085	1.4163
1e+13	125.89	127.27	129.39	1.5202	124.4	127.23	130.25	2.4727	-1.4933	-0.0415	0.8595	1.0627

Device Test: 19.22; RESET_SLEW_RATE_FALL





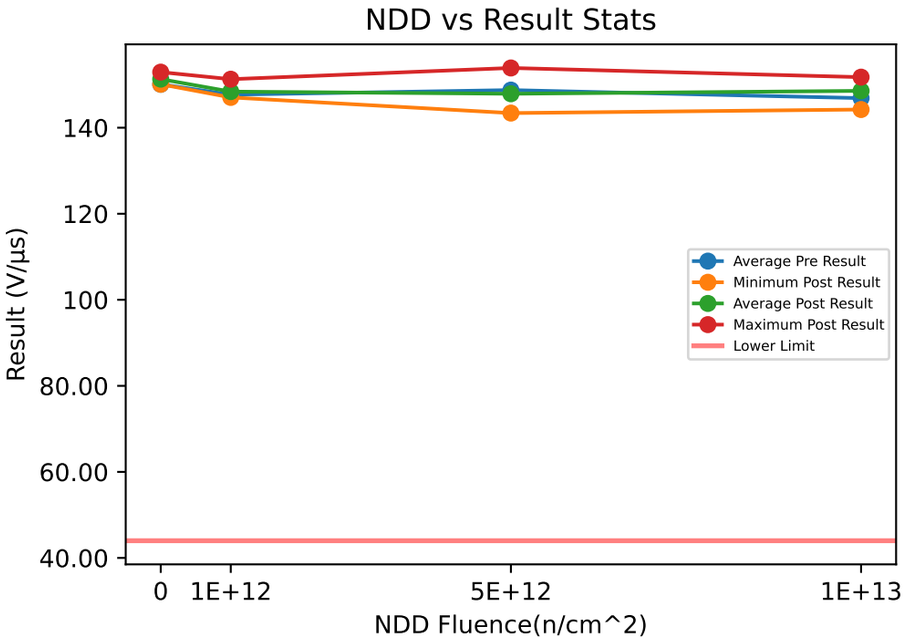
Test Results (Lower Limit = 44.0 (V/µs))

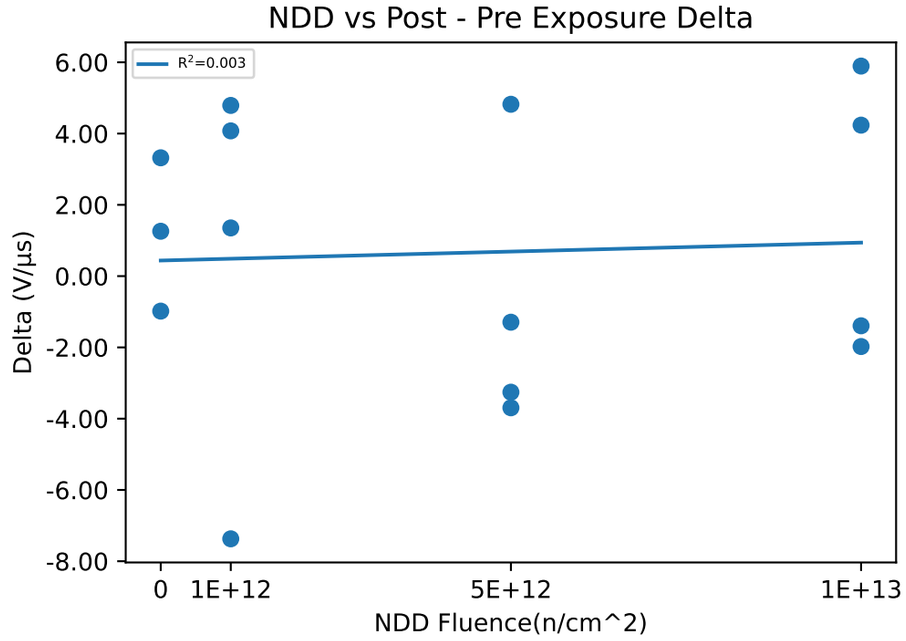
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	146.62	143.45	-3.1659
304	1e+12	NDD Unbiased	145.19	142.61	-2.5715
305	1e+12	NDD Unbiased	144	144.18	0.1777
306	1e+12	NDD Unbiased	140.13	142.09	1.96
307	5e+12	NDD Unbiased	142.35	141.17	-1.1836
308	5e+12	NDD Unbiased	142.15	144.33	2.1825
309	5e+12	NDD Unbiased	141.45	141.61	0.1635
310	5e+12	NDD Unbiased	145.5	145.77	0.2687
311	1e+13	NDD Unbiased	145.76	146.73	0.9696
312	1e+13	NDD Unbiased	142.94	141.56	-1.3743
313	1e+13	NDD Unbiased	139.19	138.31	-0.8826
314	1e+13	NDD Unbiased	142.66	145.13	2.4743
315	0	Correlation	144.93	141.23	-3.6982
316	0	Correlation	144.9	143.13	-1.7697
317	0	Correlation	143.98	142.5	-1.4796

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	143.98	144.6	144.93	0.53844	141.23	142.28	143.13	0.96744	-3.6982	-2.3158	-1.4796	1.2059
1e+12	140.13	143.98	146.62	2.7808	142.09	143.08	144.18	0.91904	-3.1659	-0.89993	1.96	2.3993
5e+12	141.45	142.86	145.5	1.8029	141.17	143.22	145.77	2.2022	-1.1836	0.35778	2.1825	1.3846
1e+13	139.19	142.64	145.76	2.6909	138.31	142.93	146.73	3.7644	-1.3743	0.29675	2.4743	1.768

Device Test: 19.23; PWRGD_SLEW_RATE_FALL





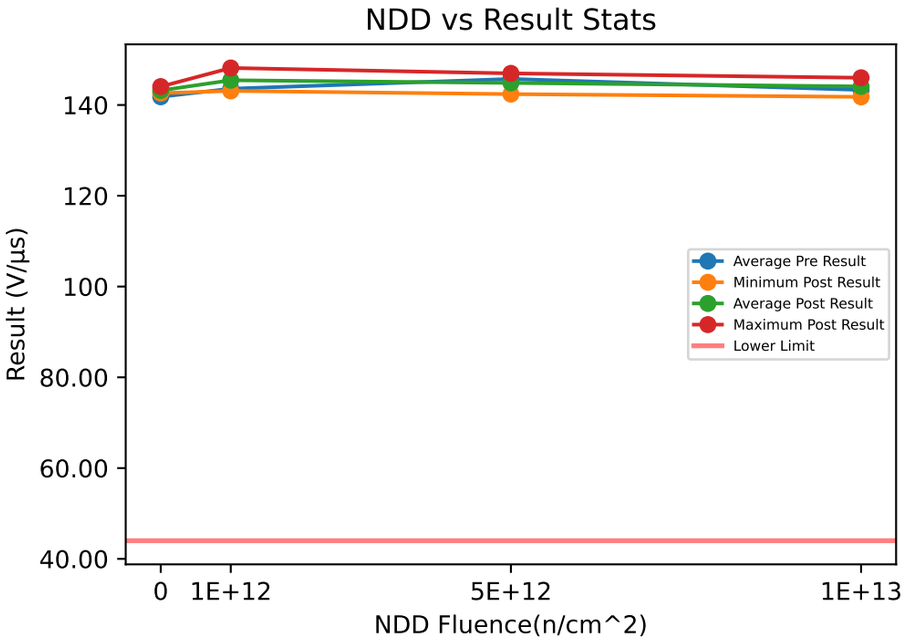
Test Results (Lower Limit = 44.0 (V/µs))

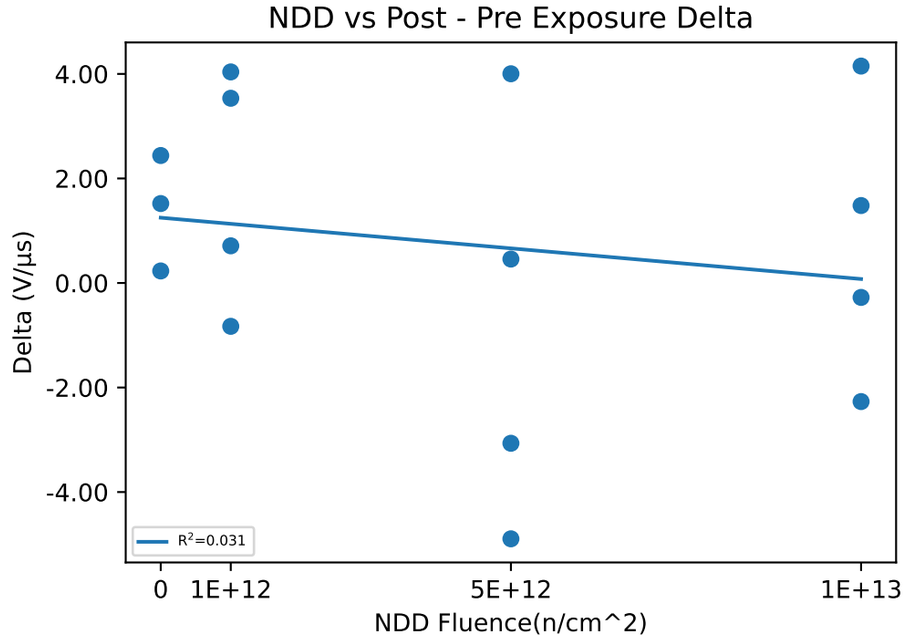
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	146.48	151.27	4.7895
304	1e+12	NDD Unbiased	142.98	147.05	4.0755
305	1e+12	NDD Unbiased	146.85	148.2	1.3522
306	1e+12	NDD Unbiased	154.41	147.04	-7.3714
307	5e+12	NDD Unbiased	149.84	146.14	-3.6942
308	5e+12	NDD Unbiased	144.69	143.4	-1.2932
309	5e+12	NDD Unbiased	149.06	153.88	4.8219
310	5e+12	NDD Unbiased	151.39	148.13	-3.2567
311	1e+13	NDD Unbiased	147.51	151.75	4.2362
312	1e+13	NDD Unbiased	149.58	147.61	-1.9757
313	1e+13	NDD Unbiased	144.78	150.67	5.8938
314	1e+13	NDD Unbiased	145.62	144.22	-1.3938
315	0	Correlation	151.84	150.86	-0.9823
316	0	Correlation	146.77	150.09	3.3201
317	0	Correlation	151.66	152.91	1.2594

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	146.77	150.09	151.84	2.8747	150.09	151.29	152.91	1.4586	-0.9823	1.1991	3.3201	2.1518
1e+12	142.98	147.68	154.41	4.8151	147.04	148.39	151.27	1.9964	-7.3714	0.71145	4.7895	5.5884
5e+12	144.69	148.74	151.39	2.8694	143.4	147.89	153.88	4.4417	-3.6942	-0.85555	4.8219	3.9263
1e+13	144.78	146.87	149.58	2.1379	144.22	148.56	151.75	3.3829	-1.9757	1.6901	5.8938	3.9624

Device Test: 19.24; WDO_SLEW_RATE_FALL





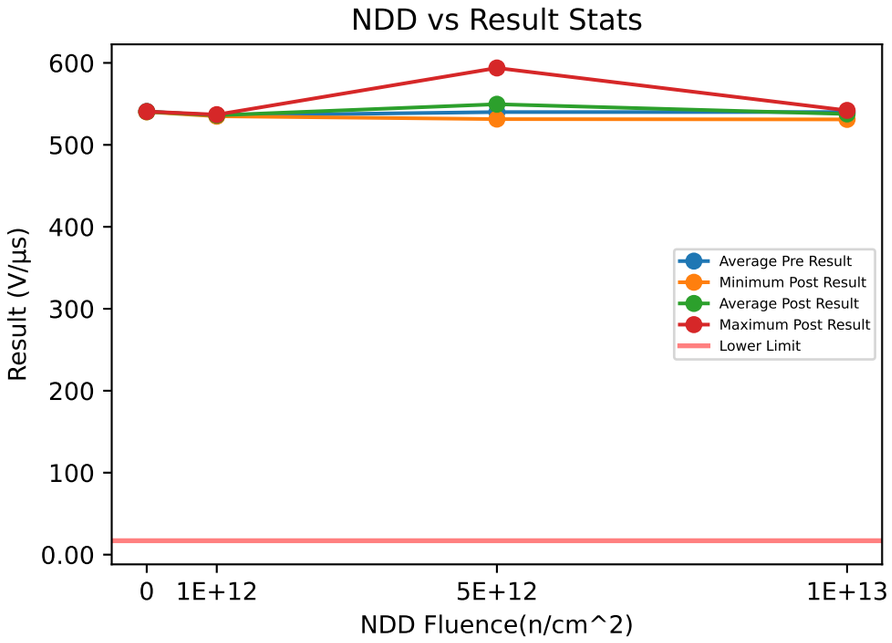
Test Results (Lower Limit = 44.0 (V/µs))

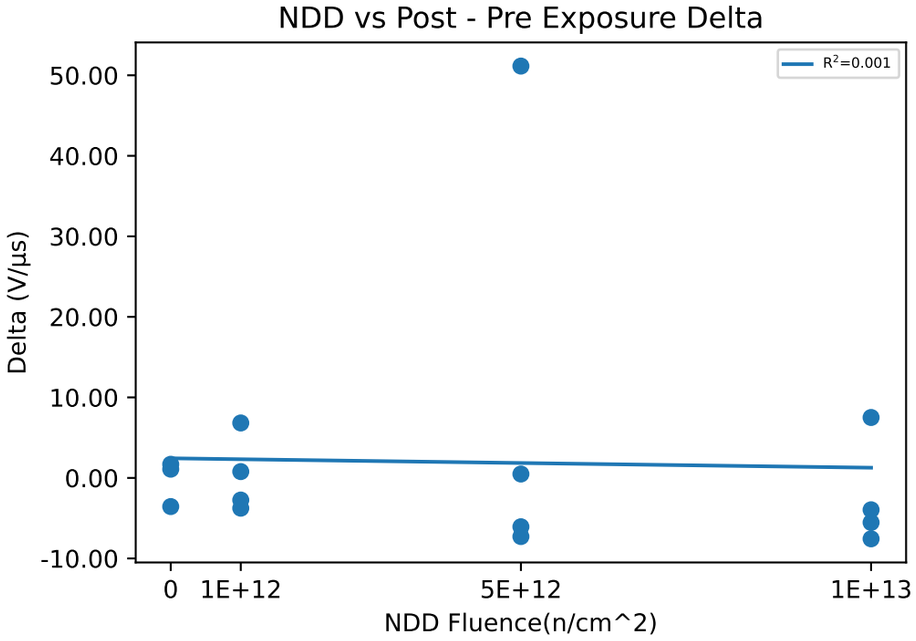
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	143.93	143.1	-0.8291
304	1e+12	NDD Unbiased	144.62	148.16	3.5344
305	1e+12	NDD Unbiased	143.08	143.79	0.7112
306	1e+12	NDD Unbiased	142.73	146.77	4.0384
307	5e+12	NDD Unbiased	147.05	143.98	-3.0666
308	5e+12	NDD Unbiased	142.1	146.1	4.003
309	5e+12	NDD Unbiased	146.51	146.96	0.4576
310	5e+12	NDD Unbiased	147.29	142.4	-4.8947
311	1e+13	NDD Unbiased	144.52	146	1.4818
312	1e+13	NDD Unbiased	144.06	141.79	-2.2689
313	1e+13	NDD Unbiased	143.3	143.02	-0.2761
314	1e+13	NDD Unbiased	141.39	145.54	4.1501
315	0	Correlation	140.17	142.61	2.439
316	0	Correlation	141.43	142.95	1.5199
317	0	Correlation	143.82	144.05	0.2302

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	140.17	141.81	143.82	1.8545	142.61	143.21	144.05	0.75351	0.2302	1.3964	2.439	1.1096
1e+12	142.73	143.59	144.62	0.85252	143.1	145.45	148.16	2.4037	-0.8291	1.8637	4.0384	2.3166
5e+12	142.1	145.74	147.29	2.446	142.4	144.86	146.96	2.0668	-4.8947	-0.87518	4.003	3.9384
1e+13	141.39	143.32	144.52	1.3798	141.79	144.09	146	2.0142	-2.2689	0.77172	4.1501	2.724

Device Test: 19.25; RESET_SLEW_RATE_RISE





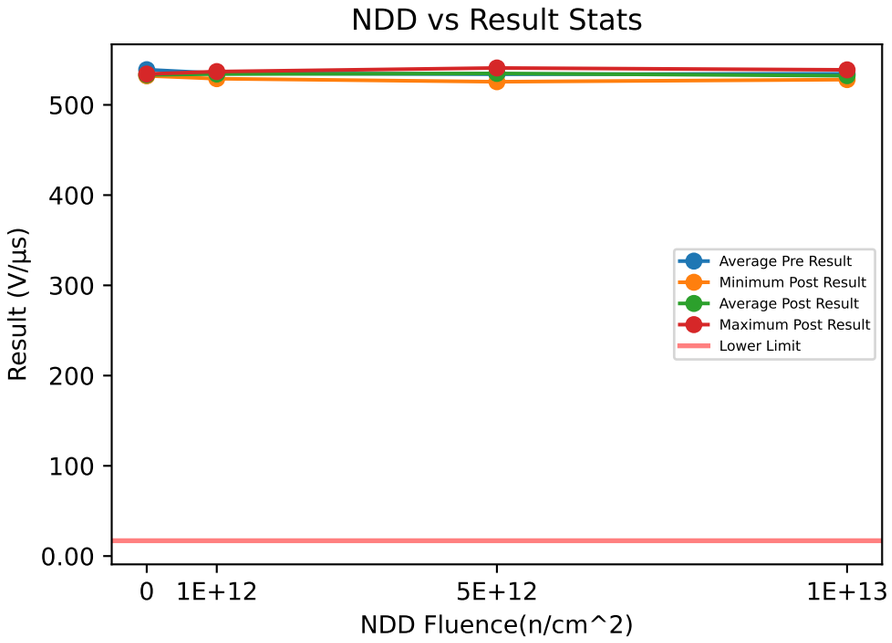
Test Results (Lower Limit = 17.0 (V/µs))

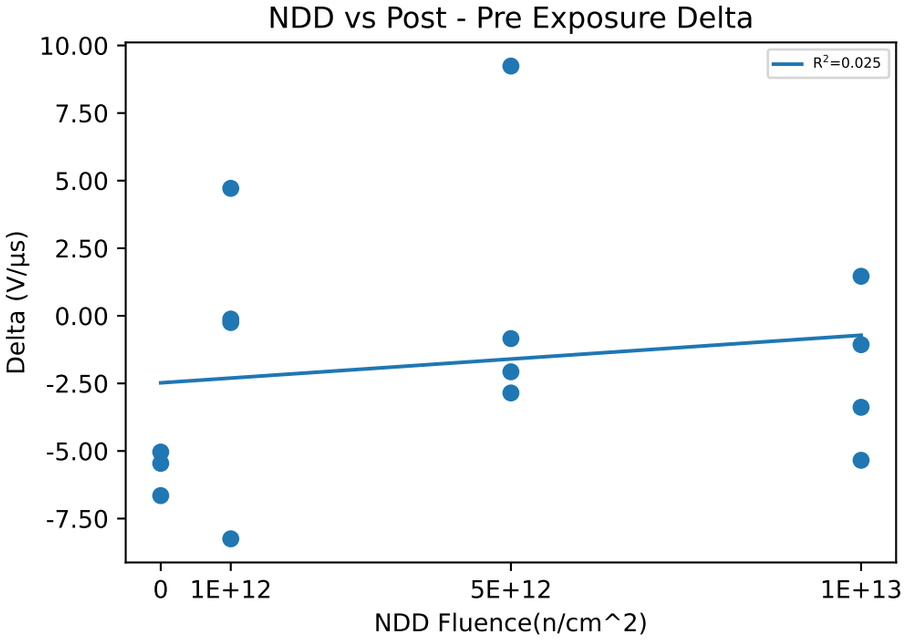
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	537.65	534.91	-2.7472
304	1e+12	NDD Unbiased	536.1	536.89	0.7851
305	1e+12	NDD Unbiased	539.77	536.01	-3.7574
306	1e+12	NDD Unbiased	529.59	536.42	6.8244
307	5e+12	NDD Unbiased	542.78	535.5	-7.2788
308	5e+12	NDD Unbiased	530.93	531.41	0.4851
309	5e+12	NDD Unbiased	543.68	537.62	-6.0648
310	5e+12	NDD Unbiased	542.67	593.81	51.143
311	1e+13	NDD Unbiased	538.6	531.03	-7.5622
312	1e+13	NDD Unbiased	543.52	539.56	-3.9583
313	1e+13	NDD Unbiased	534.54	542.04	7.5046
314	1e+13	NDD Unbiased	543.58	538.05	-5.5329
315	0	Correlation	538.83	540.52	1.6925
316	0	Correlation	539.59	540.68	1.0872
317	0	Correlation	543.79	540.23	-3.5565

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	538.83	540.74	543.79	2.6705	540.23	540.48	540.68	0.22513	-3.5565	-0.25893	1.6925	2.8718
1e+12	529.59	535.78	539.77	4.3902	534.91	536.06	536.89	0.84592	-3.7574	0.27623	6.8244	4.7801
5e+12	530.93	540.01	543.68	6.0734	531.41	549.58	593.81	29.595	-7.2788	9.5711	51.143	27.923
1e+13	534.54	540.06	543.58	4.3595	531.03	537.67	542.04	4.7209	-7.5622	-2.3872	7.5046	6.7575

Device Test: 19.26; RESET_SLEW_RATE_RISE





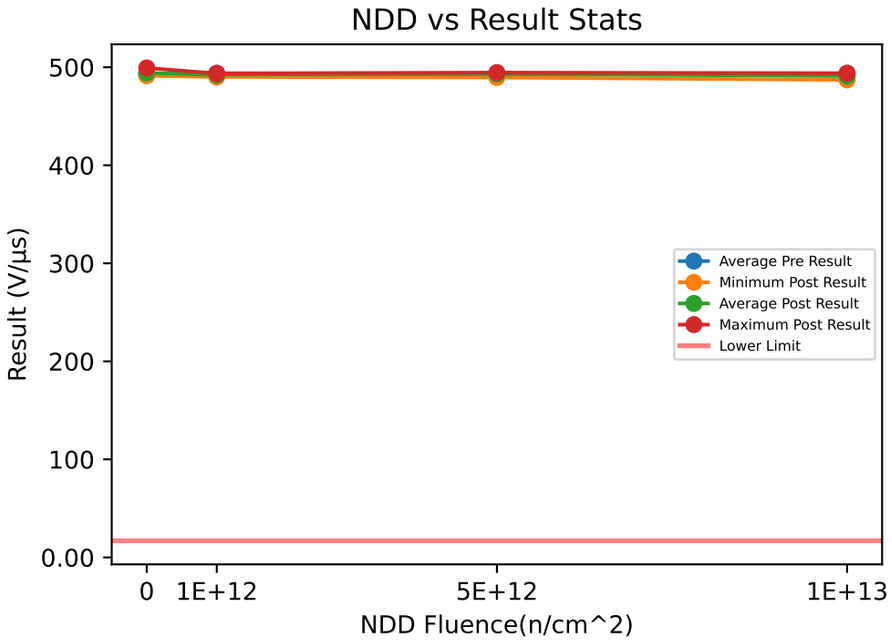
Test Results (Lower Limit = 17.0 (V/µs))

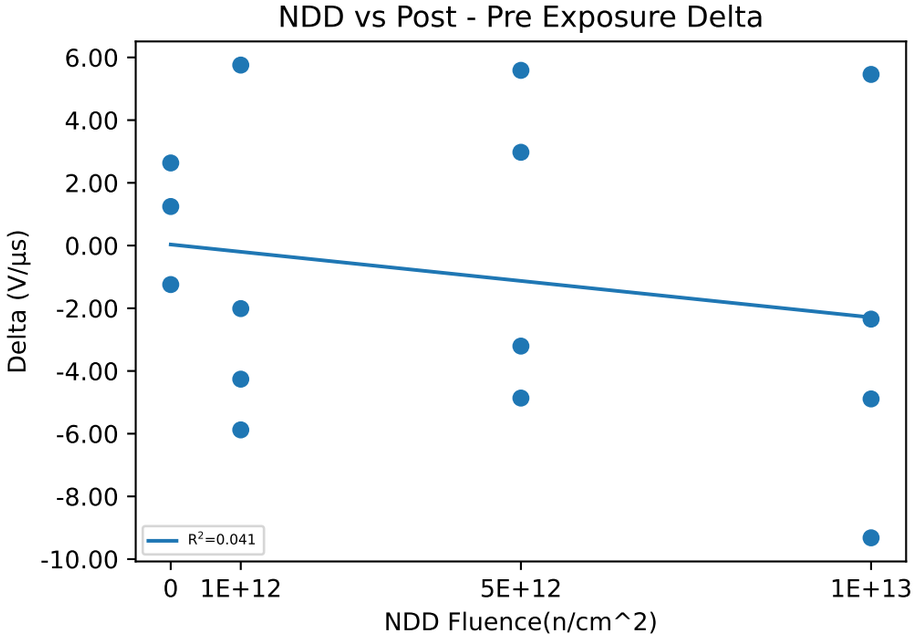
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	537.27	529.02	-8.2488
304	1e+12	NDD Unbiased	536.77	536.52	-0.2486
305	1e+12	NDD Unbiased	532.19	536.9	4.7148
306	1e+12	NDD Unbiased	534.2	534.08	-0.1193
307	5e+12	NDD Unbiased	529.35	538.59	9.2378
308	5e+12	NDD Unbiased	528.49	525.63	-2.8537
309	5e+12	NDD Unbiased	541.73	540.89	-0.8423
310	5e+12	NDD Unbiased	536.22	534.15	-2.0706
311	1e+13	NDD Unbiased	537.35	538.82	1.4621
312	1e+13	NDD Unbiased	531.62	530.56	-1.0675
313	1e+13	NDD Unbiased	531.37	527.99	-3.3844
314	1e+13	NDD Unbiased	537.23	531.89	-5.3439
315	0	Correlation	538.82	532.17	-6.6504
316	0	Correlation	539.2	534.16	-5.0393
317	0	Correlation	538.98	533.52	-5.4582

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	538.82	539	539.2	0.18866	532.17	533.28	534.16	1.0146	-6.6504	-5.716	-5.0393	0.83591
1e+12	532.19	535.11	537.27	2.366	529.02	534.13	536.9	3.6302	-8.2488	-0.97547	4.7148	5.371
5e+12	528.49	533.95	541.73	6.2386	525.63	534.82	540.89	6.7312	-2.8537	0.8678	9.2378	5.6411
1e+13	531.37	534.4	537.35	3.3475	527.99	532.31	538.82	4.6274	-5.3439	-2.0834	1.4621	2.9397

Device Test: 19.27; RESET_SLEW_RATE_RISE





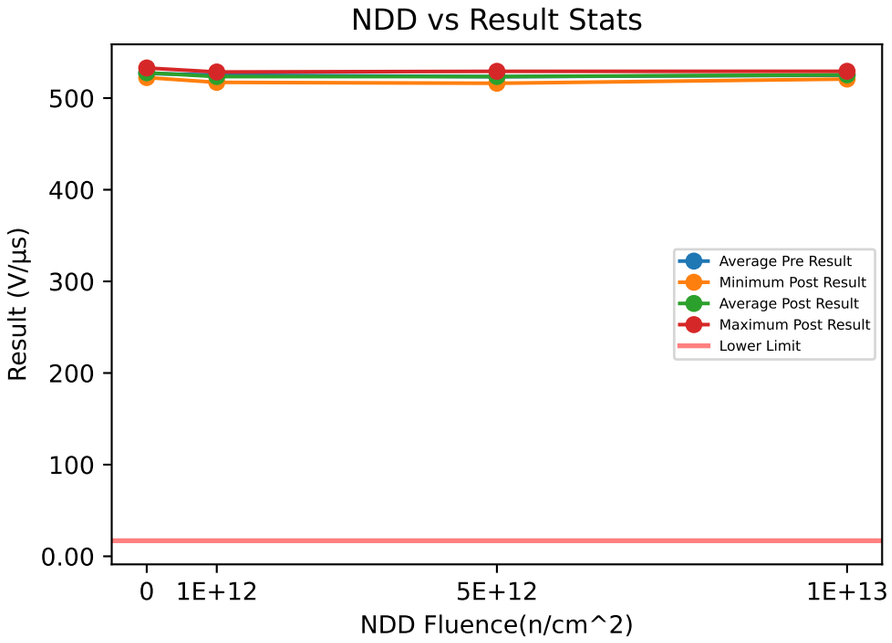
Test Results (Lower Limit = 17.0 (V/µs))

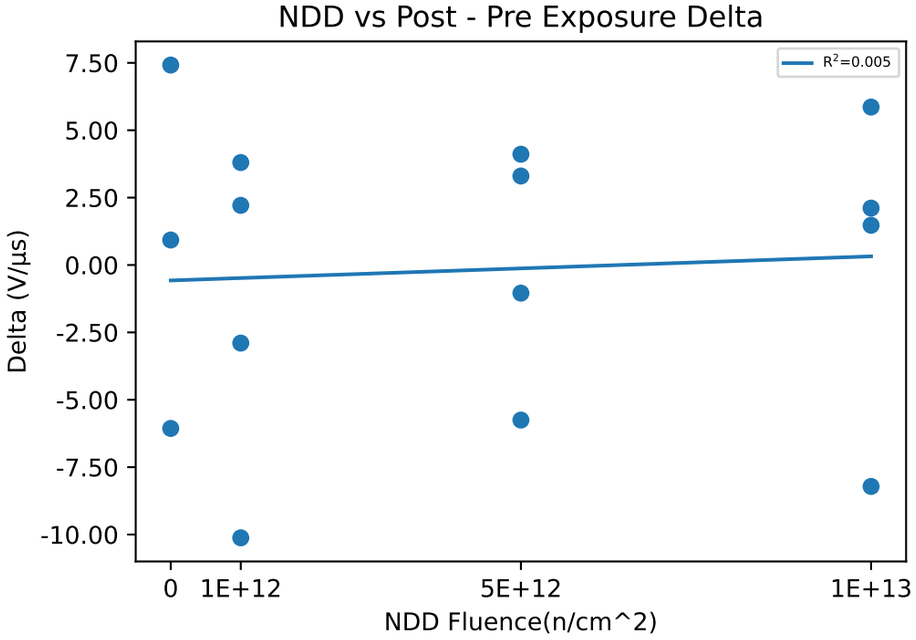
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	495.95	490.07	-5.8786
304	1e+12	NDD Unbiased	497.28	493.02	-4.261
305	1e+12	NDD Unbiased	487.91	493.66	5.7557
306	1e+12	NDD Unbiased	494.32	492.31	-2.0105
307	5e+12	NDD Unbiased	494.37	489.5	-4.864
308	5e+12	NDD Unbiased	488.95	494.54	5.5875
309	5e+12	NDD Unbiased	497.12	493.91	-3.2067
310	5e+12	NDD Unbiased	491.48	494.46	2.9743
311	1e+13	NDD Unbiased	488.4	493.86	5.4573
312	1e+13	NDD Unbiased	495.47	493.12	-2.3456
313	1e+13	NDD Unbiased	496.39	487.07	-9.321
314	1e+13	NDD Unbiased	494.84	489.95	-4.8912
315	0	Correlation	496.61	499.24	2.6339
316	0	Correlation	490.66	491.9	1.245
317	0	Correlation	492.6	491.35	-1.2442

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	490.66	493.29	496.61	3.0352	491.35	494.17	499.24	4.4045	-1.2442	0.87823	2.6339	1.9649
1e+12	487.91	493.86	497.28	4.1508	490.07	492.27	493.66	1.5628	-5.8786	-1.5986	5.7557	5.1531
5e+12	488.95	492.98	497.12	3.5378	489.5	493.1	494.54	2.4162	-4.864	0.12277	5.5875	4.9648
1e+13	488.4	493.78	496.39	3.6391	487.07	491	493.86	3.1196	-9.321	-2.7751	5.4573	6.199

Device Test: 19.28; RESET_SLEW_RATE_RISE





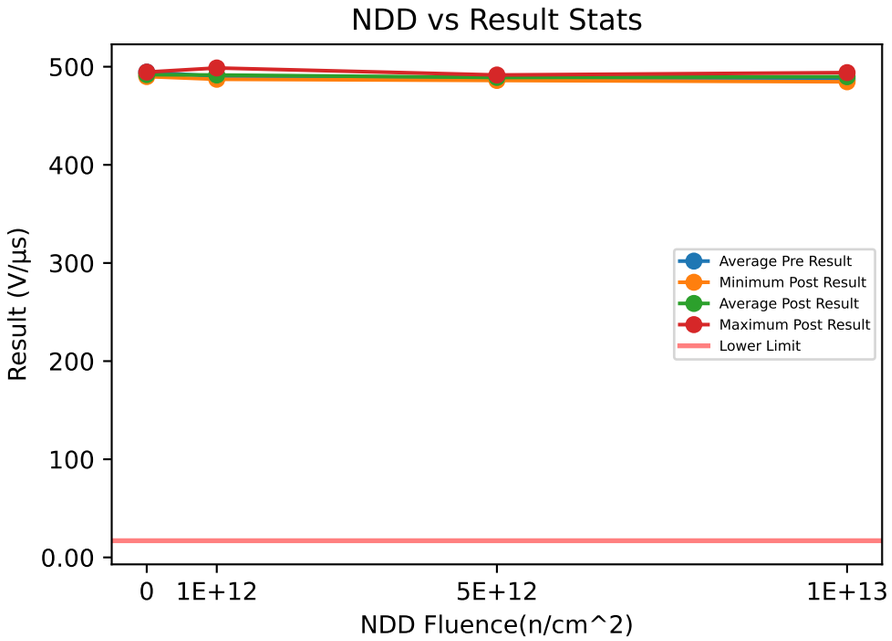
Test Results (Lower Limit = 17.0 (V/µs))

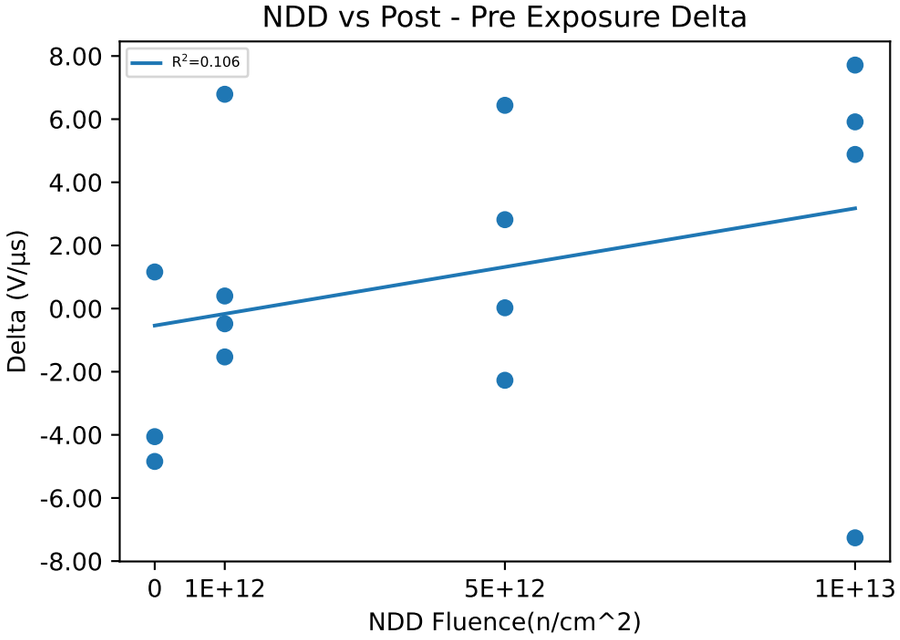
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	526.25	528.46	2.213
304	1e+12	NDD Unbiased	527.29	517.16	-10.121
305	1e+12	NDD Unbiased	523.26	520.37	-2.8972
306	1e+12	NDD Unbiased	524.06	527.86	3.802
307	5e+12	NDD Unbiased	518.43	522.54	4.1093
308	5e+12	NDD Unbiased	521.92	516.16	-5.7528
309	5e+12	NDD Unbiased	522.72	526.02	3.3016
310	5e+12	NDD Unbiased	530.24	529.2	-1.0439
311	1e+13	NDD Unbiased	533.12	524.9	-8.215
312	1e+13	NDD Unbiased	525	526.47	1.4739
313	1e+13	NDD Unbiased	518.64	520.75	2.1112
314	1e+13	NDD Unbiased	523.37	529.22	5.8593
315	0	Correlation	528.45	522.39	-6.0631
316	0	Correlation	525.44	532.85	7.4175
317	0	Correlation	526.77	527.69	0.9276

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	525.44	526.88	528.45	1.5101	522.39	527.64	532.85	5.2338	-6.0631	0.76067	7.4175	6.7419
1e+12	523.26	525.21	527.29	1.8724	517.16	523.46	528.46	5.5858	-10.121	-1.7509	3.802	6.2697
5e+12	518.43	523.33	530.24	4.9721	516.16	523.48	529.2	5.5848	-5.7528	0.15355	4.1093	4.5416
1e+13	518.64	525.03	533.12	6.0264	520.75	525.34	529.22	3.5394	-8.215	0.30735	5.8593	6.0019

Device Test: 19.29; PWRGD_SLEW_RATE_RISE





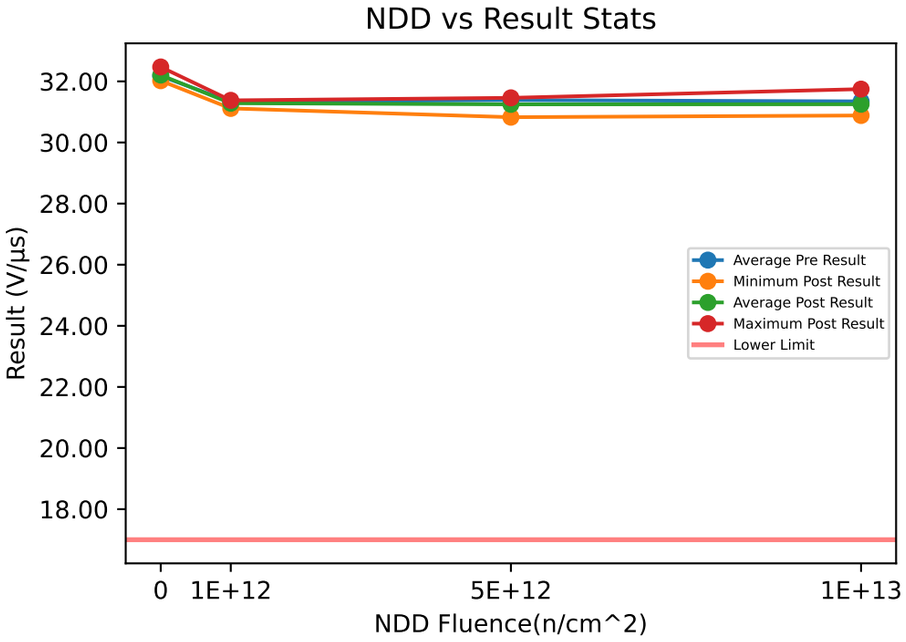
Test Results (Lower Limit = 17.0 (V/µs))

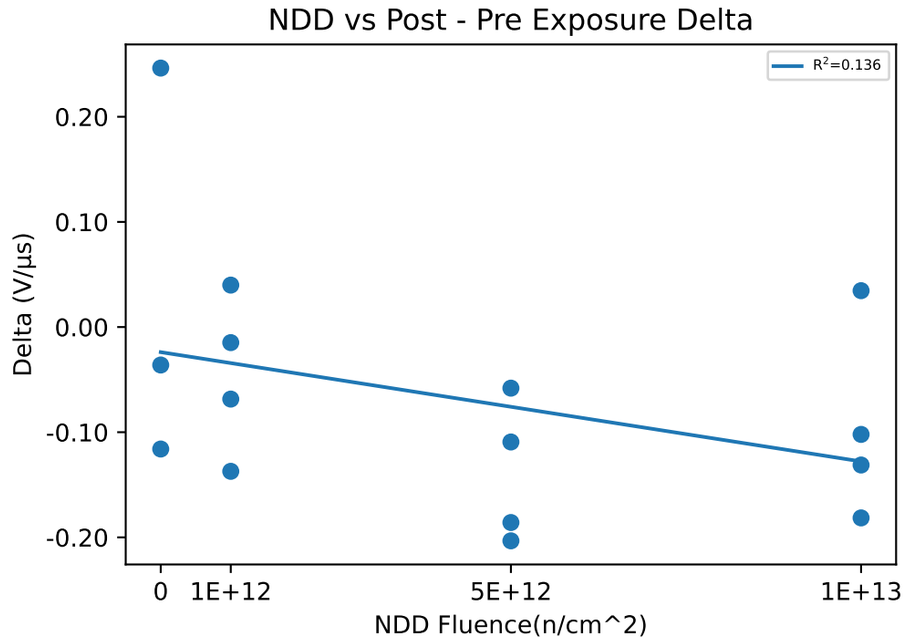
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	491.93	498.72	6.7883
304	1e+12	NDD Unbiased	486.8	487.2	0.3984
305	1e+12	NDD Unbiased	491.83	490.29	-1.5323
306	1e+12	NDD Unbiased	490.4	489.92	-0.4818
307	5e+12	NDD Unbiased	484.94	487.75	2.8159
308	5e+12	NDD Unbiased	485.13	491.57	6.4381
309	5e+12	NDD Unbiased	493.2	490.92	-2.2721
310	5e+12	NDD Unbiased	485.97	486	0.0248
311	1e+13	NDD Unbiased	488.06	493.98	5.9143
312	1e+13	NDD Unbiased	483.5	488.38	4.8822
313	1e+13	NDD Unbiased	484.47	492.19	7.7131
314	1e+13	NDD Unbiased	491.89	484.63	-7.2621
315	0	Correlation	493.36	494.52	1.1595
316	0	Correlation	494.81	489.96	-4.8429
317	0	Correlation	495.38	491.32	-4.0576

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	493.36	494.51	495.38	1.0407	489.96	491.93	494.52	2.3392	-4.8429	-2.5803	1.1595	3.2625
1e+12	486.8	490.24	491.93	2.3953	487.2	491.53	498.72	4.9835	-1.5323	1.2931	6.7883	3.7475
5e+12	484.94	487.31	493.2	3.9507	486	489.06	491.57	2.6383	-2.2721	1.7517	6.4381	3.7536
1e+13	483.5	486.98	491.89	3.8168	484.63	489.79	493.98	4.1601	-7.2621	2.8119	7.7131	6.8171

Device Test: 19.3; RESET_SLEW_RATE_RISE





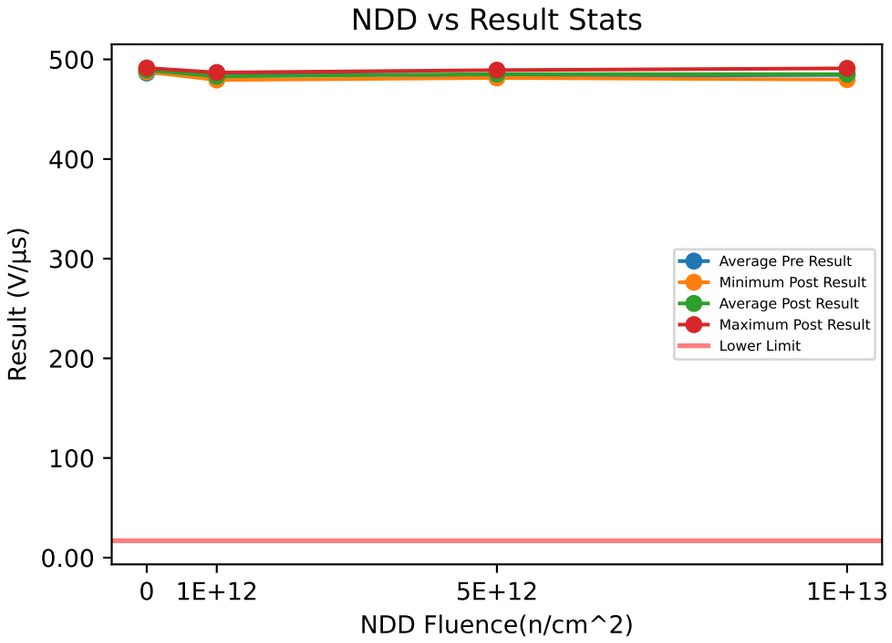
Test Results (Lower Limit = 17.0 (V/µs))

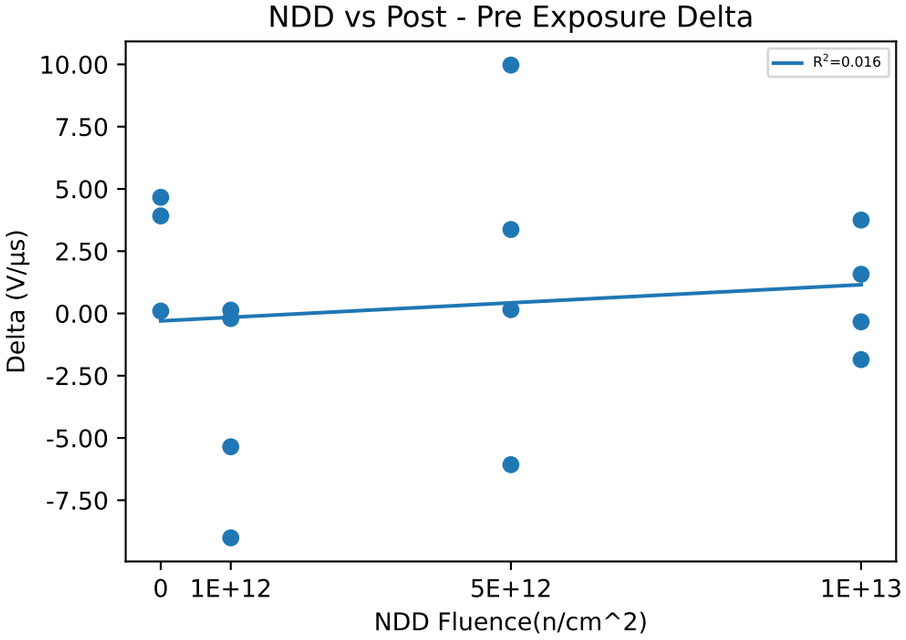
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	31.369	31.354	-0.0148
304	1e+12	NDD Unbiased	31.358	31.289	-0.0685
305	1e+12	NDD Unbiased	31.252	31.114	-0.1372
306	1e+12	NDD Unbiased	31.339	31.378	0.0399
307	5e+12	NDD Unbiased	31.45	31.34	-0.1093
308	5e+12	NDD Unbiased	31.013	30.827	-0.1859
309	5e+12	NDD Unbiased	31.664	31.46	-0.2033
310	5e+12	NDD Unbiased	31.419	31.361	-0.0581
311	1e+13	NDD Unbiased	31.928	31.746	-0.1815
312	1e+13	NDD Unbiased	31.303	31.201	-0.1021
313	1e+13	NDD Unbiased	30.849	30.883	0.0346
314	1e+13	NDD Unbiased	31.303	31.171	-0.1312
315	0	Correlation	32.24	32.124	-0.116
316	0	Correlation	31.775	32.021	0.2463
317	0	Correlation	32.507	32.471	-0.0361

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	31.775	32.174	32.507	0.37039	32.021	32.206	32.471	0.2354	-0.116	0.0314	0.2463	0.19035
1e+12	31.252	31.329	31.369	0.053189	31.114	31.284	31.378	0.11921	-0.1372	-0.04515	0.0399	0.075659
5e+12	31.013	31.386	31.664	0.27165	30.827	31.247	31.46	0.28495	-0.2033	-0.13915	-0.0581	0.067727
1e+13	30.849	31.346	31.928	0.44323	30.883	31.251	31.746	0.36018	-0.1815	-0.09505	0.0346	0.092447

Device Test: 19.30; WDO_SLEW_RATE_RISE





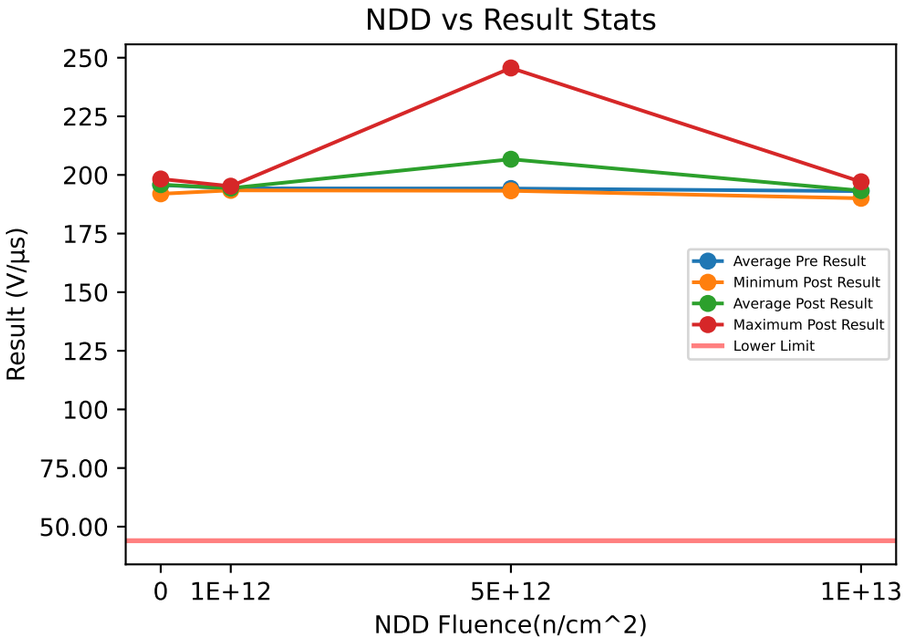
Test Results (Lower Limit = 17.0 (V/µs))

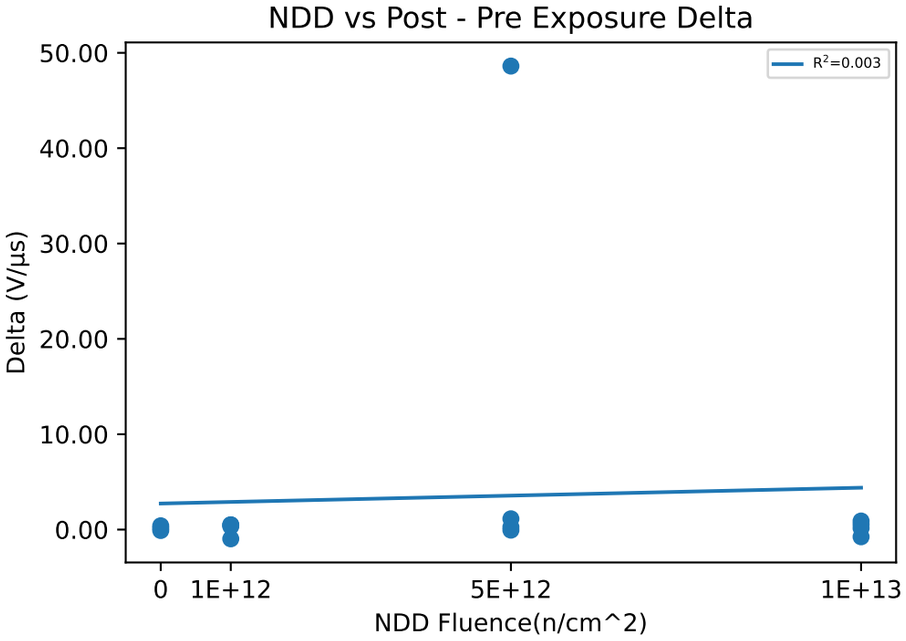
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	485.45	485.25	-0.204
304	1e+12	NDD Unbiased	488.3	479.29	-9.0095
305	1e+12	NDD Unbiased	485.61	480.26	-5.3535
306	1e+12	NDD Unbiased	486.64	486.78	0.1333
307	5e+12	NDD Unbiased	485.37	485.53	0.1506
308	5e+12	NDD Unbiased	479.24	489.21	9.9729
309	5e+12	NDD Unbiased	481.42	484.79	3.3701
310	5e+12	NDD Unbiased	487.45	481.38	-6.0722
311	1e+13	NDD Unbiased	489.41	490.98	1.5739
312	1e+13	NDD Unbiased	475.93	479.68	3.7508
313	1e+13	NDD Unbiased	481.25	480.92	-0.3366
314	1e+13	NDD Unbiased	490.82	488.97	-1.8529
315	0	Correlation	482.86	487.52	4.6623
316	0	Correlation	491.27	491.36	0.0958
317	0	Correlation	484.86	488.78	3.916

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	482.86	486.33	491.27	4.3923	487.52	489.22	491.36	1.959	0.0958	2.8914	4.6623	2.4496
1e+12	485.45	486.5	488.3	1.3081	479.29	482.89	486.78	3.6773	-9.0095	-3.6084	0.1333	4.3897
5e+12	479.24	483.37	487.45	3.7216	481.38	485.23	489.21	3.2119	-6.0722	1.8554	9.9729	6.6818
1e+13	475.93	484.36	490.82	7.0223	479.68	485.14	490.98	5.6693	-1.8529	0.7838	3.7508	2.4245

Device Test: 19.31; RESET_SLEW_RATE_FALL





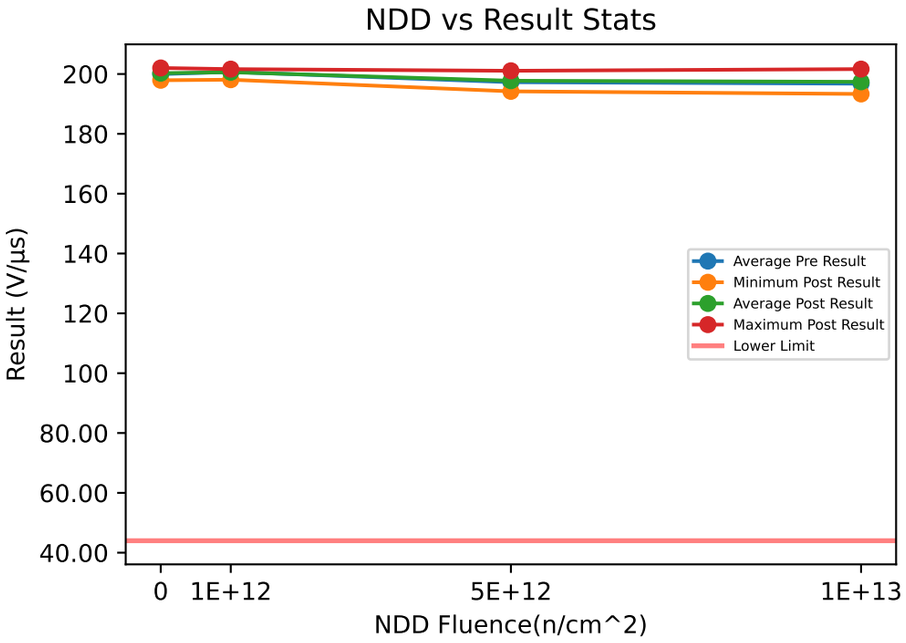
Test Results (Lower Limit = 44.0 (V/µs))

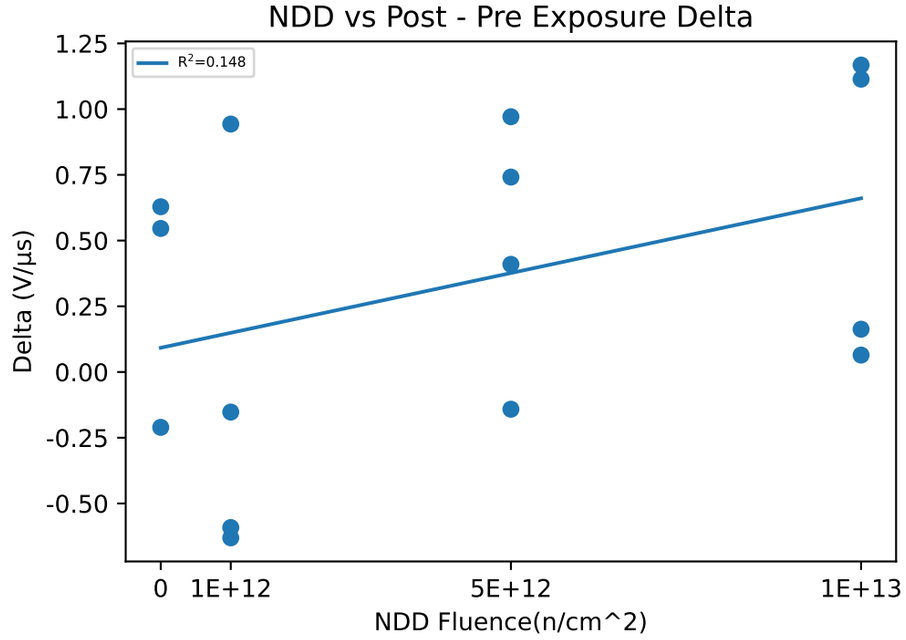
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	195.3	194.34	-0.9693
304	1e+12	NDD Unbiased	192.93	193.42	0.4975
305	1e+12	NDD Unbiased	194.71	195.2	0.4967
306	1e+12	NDD Unbiased	194.17	194.51	0.3386
307	5e+12	NDD Unbiased	193.6	193.54	-0.0585
308	5e+12	NDD Unbiased	193.25	194.38	1.1299
309	5e+12	NDD Unbiased	192.98	193.24	0.2683
310	5e+12	NDD Unbiased	197.01	245.62	48.611
311	1e+13	NDD Unbiased	193.81	193.96	0.1509
312	1e+13	NDD Unbiased	196.19	197.09	0.8976
313	1e+13	NDD Unbiased	189.5	190.04	0.5411
314	1e+13	NDD Unbiased	192.86	192.1	-0.7552
315	0	Correlation	197.44	197.34	-0.0964
316	0	Correlation	191.81	191.95	0.1476
317	0	Correlation	197.87	198.27	0.3977

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	191.81	195.71	197.87	3.3847	191.95	195.86	198.27	3.4112	-0.0964	0.14963	0.3977	0.24706
1e+12	192.93	194.28	195.3	1.0131	193.42	194.37	195.2	0.73393	-0.9693	0.090875	0.4975	0.71072
5e+12	192.98	194.21	197.01	1.8854	193.24	206.7	245.62	25.954	-0.0585	12.488	48.611	24.087
1e+13	189.5	193.09	196.19	2.7748	190.04	193.3	197.09	2.9922	-0.7552	0.2086	0.8976	0.71122

Device Test: 19.32; RESET_SLEW_RATE_FALL





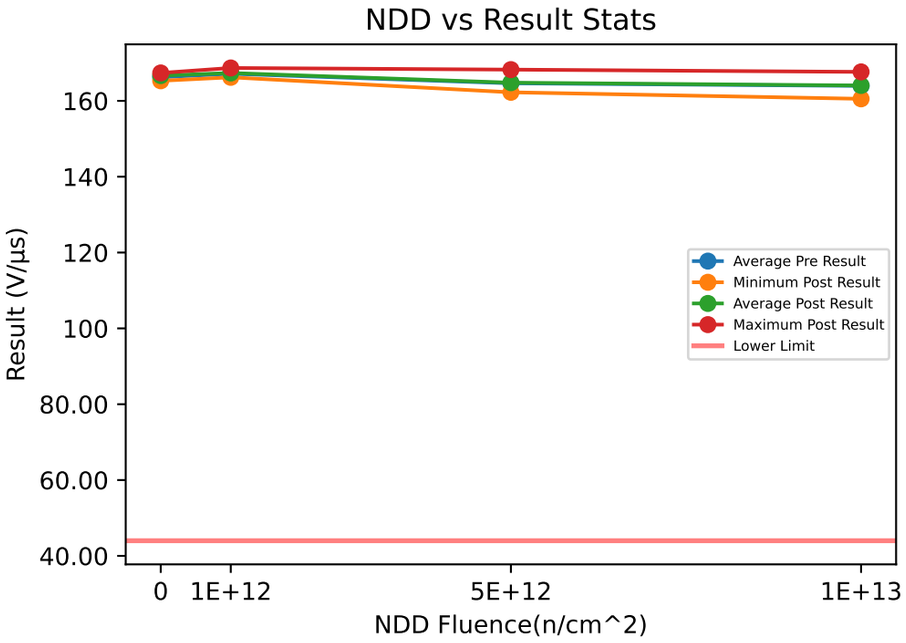
Test Results (Lower Limit = 44.0 (V/µs))

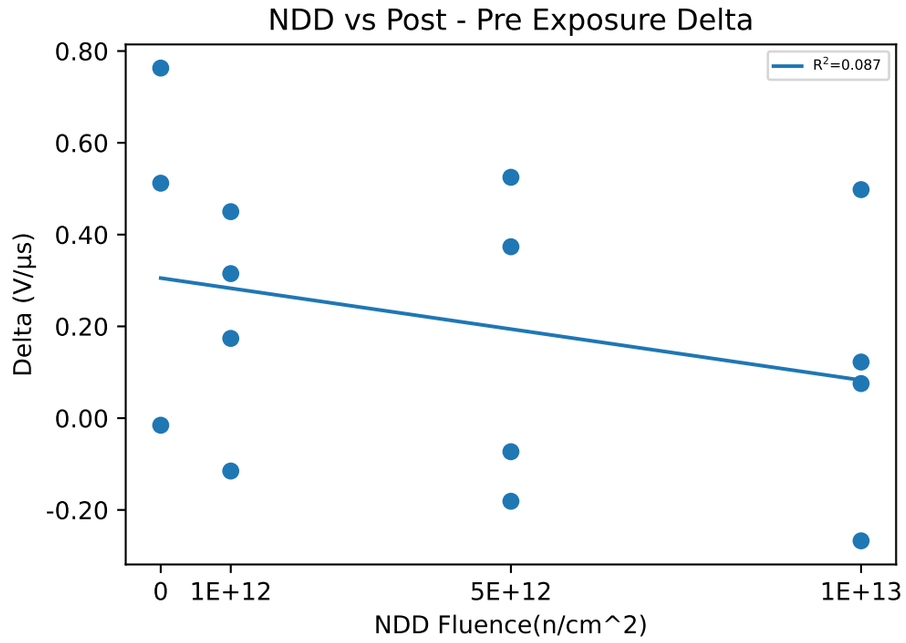
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	201.79	201.63	-0.1524
304	1e+12	NDD Unbiased	202.21	201.58	-0.6307
305	1e+12	NDD Unbiased	200.11	201.05	0.9431
306	1e+12	NDD Unbiased	198.69	198.1	-0.5917
307	5e+12	NDD Unbiased	194.35	194.21	-0.1415
308	5e+12	NDD Unbiased	199.62	200.37	0.7415
309	5e+12	NDD Unbiased	194.95	195.36	0.4095
310	5e+12	NDD Unbiased	200.11	201.08	0.971
311	1e+13	NDD Unbiased	201.58	201.64	0.0644
312	1e+13	NDD Unbiased	196.77	196.93	0.1628
313	1e+13	NDD Unbiased	192.22	193.33	1.1139
314	1e+13	NDD Unbiased	196.5	197.67	1.1675
315	0	Correlation	202.23	202.02	-0.2105
316	0	Correlation	200.27	200.9	0.6286
317	0	Correlation	197.37	197.91	0.546

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	197.37	199.96	202.23	2.4462	197.91	200.28	202.02	2.1225	-0.2105	0.32137	0.6286	0.46246
1e+12	198.69	200.7	202.21	1.6202	198.1	200.59	201.63	1.6838	-0.6307	-0.10793	0.9431	0.73348
5e+12	194.35	197.26	200.11	3.028	194.21	197.75	201.08	3.4729	-0.1415	0.49513	0.971	0.48297
1e+13	192.22	196.77	201.58	3.8256	193.33	197.39	201.64	3.4077	0.0644	0.62715	1.1675	0.59476

Device Test: 19.33; RESET_SLEW_RATE_FALL





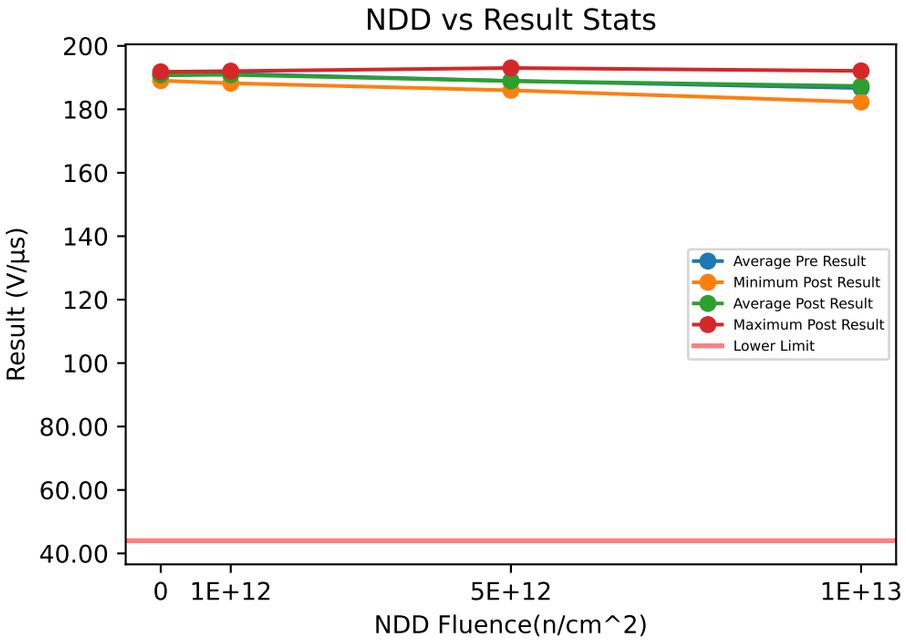
Test Results (Lower Limit = 44.0 (V/µs))

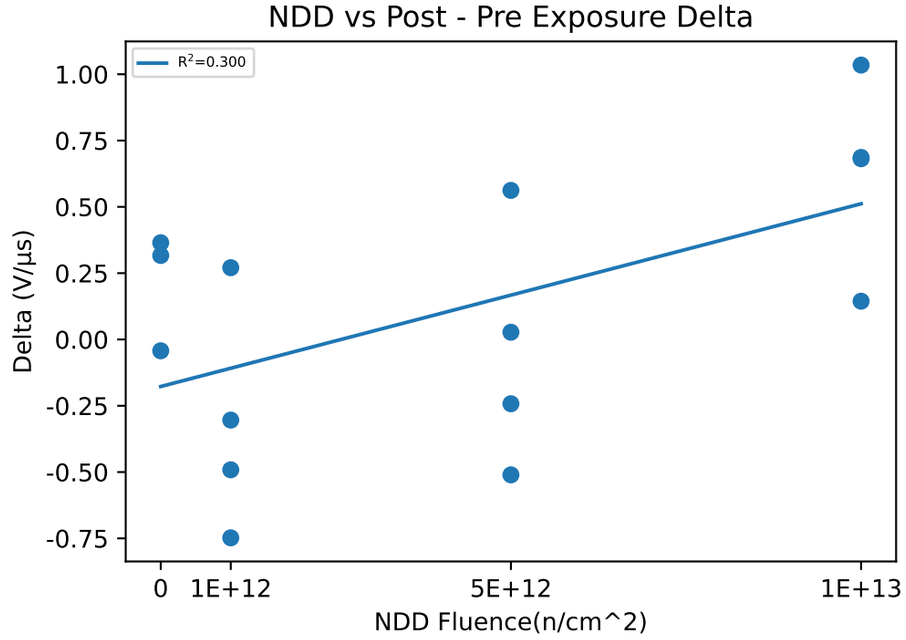
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	167.74	167.63	-0.1152
304	1e+12	NDD Unbiased	168.5	168.68	0.1738
305	1e+12	NDD Unbiased	166.59	166.9	0.315
306	1e+12	NDD Unbiased	165.76	166.21	0.45
307	5e+12	NDD Unbiased	161.89	162.26	0.3735
308	5e+12	NDD Unbiased	165.83	165.76	-0.0731
309	5e+12	NDD Unbiased	163.11	162.93	-0.1811
310	5e+12	NDD Unbiased	167.72	168.24	0.5249
311	1e+13	NDD Unbiased	167.15	167.65	0.498
312	1e+13	NDD Unbiased	163.88	163.61	-0.2673
313	1e+13	NDD Unbiased	160.42	160.54	0.1223
314	1e+13	NDD Unbiased	164.36	164.44	0.0754
315	0	Correlation	166.85	167.36	0.512
316	0	Correlation	166.56	167.32	0.7629
317	0	Correlation	165.32	165.3	-0.0154

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	165.32	166.24	166.85	0.81574	165.3	166.66	167.36	1.1795	-0.0154	0.41983	0.7629	0.39725
1e+12	165.76	167.15	168.5	1.2148	166.21	167.35	168.68	1.0543	-0.1152	0.2059	0.45	0.24195
5e+12	161.89	164.64	167.72	2.6337	162.26	164.8	168.24	2.752	-0.1811	0.16105	0.5249	0.34128
1e+13	160.42	163.95	167.15	2.7616	160.54	164.06	167.65	2.9207	-0.2673	0.1071	0.498	0.31316

Device Test: 19.34; RESET_SLEW_RATE_FALL





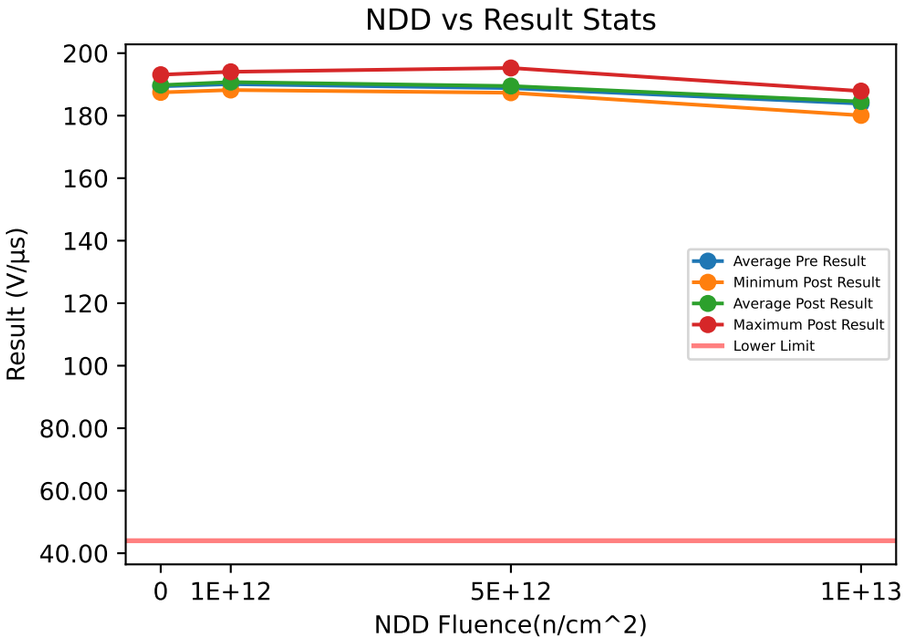
Test Results (Lower Limit = 44.0 (V/µs))

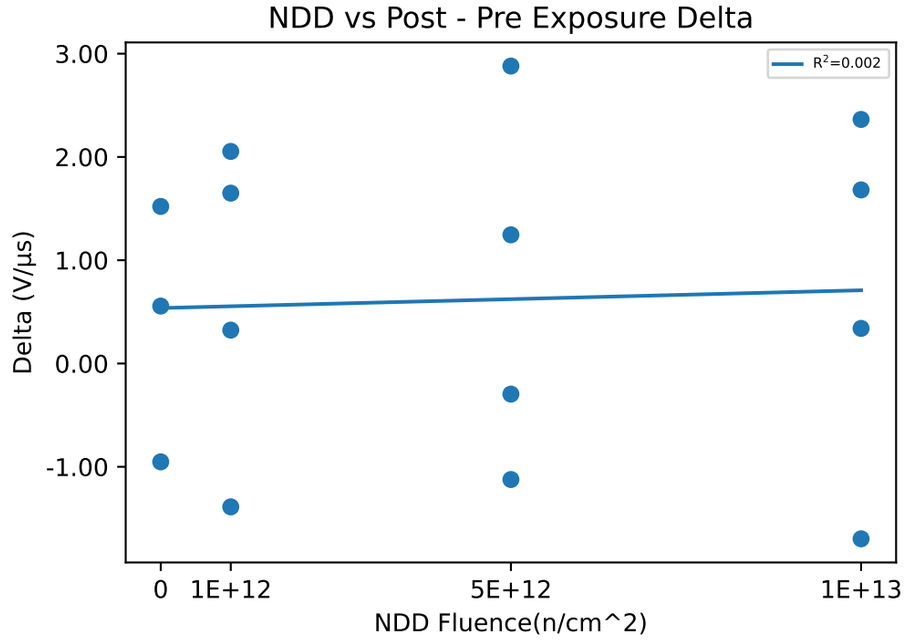
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	192.75	192	-0.7479
304	1e+12	NDD Unbiased	190.94	191.22	0.2707
305	1e+12	NDD Unbiased	192.53	192.03	-0.4914
306	1e+12	NDD Unbiased	188.53	188.22	-0.304
307	5e+12	NDD Unbiased	185.43	185.99	0.562
308	5e+12	NDD Unbiased	190.75	190.24	-0.5105
309	5e+12	NDD Unbiased	186.41	186.43	0.0273
310	5e+12	NDD Unbiased	193.27	193.03	-0.2424
311	1e+13	NDD Unbiased	191.42	192.11	0.6864
312	1e+13	NDD Unbiased	186.69	186.83	0.1443
313	1e+13	NDD Unbiased	181.25	182.28	1.0346
314	1e+13	NDD Unbiased	187.44	188.13	0.6814
315	0	Correlation	191.5	191.81	0.3167
316	0	Correlation	191.35	191.71	0.3647
317	0	Correlation	189.08	189.04	-0.0427

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	189.08	190.64	191.5	1.352	189.04	190.86	191.81	1.5721	-0.0427	0.2129	0.3647	0.22265
1e+12	188.53	191.19	192.75	1.9466	188.22	190.87	192.03	1.8039	-0.7479	-0.31815	0.2707	0.43268
5e+12	185.43	188.96	193.27	3.688	185.99	188.92	193.03	3.3371	-0.5105	-0.0409	0.562	0.45799
1e+13	181.25	186.7	191.42	4.1849	182.28	187.34	192.11	4.0478	0.1443	0.63667	1.0346	0.36754

Device Test: 19.35; PWRGD_SLEW_RATE_FALL





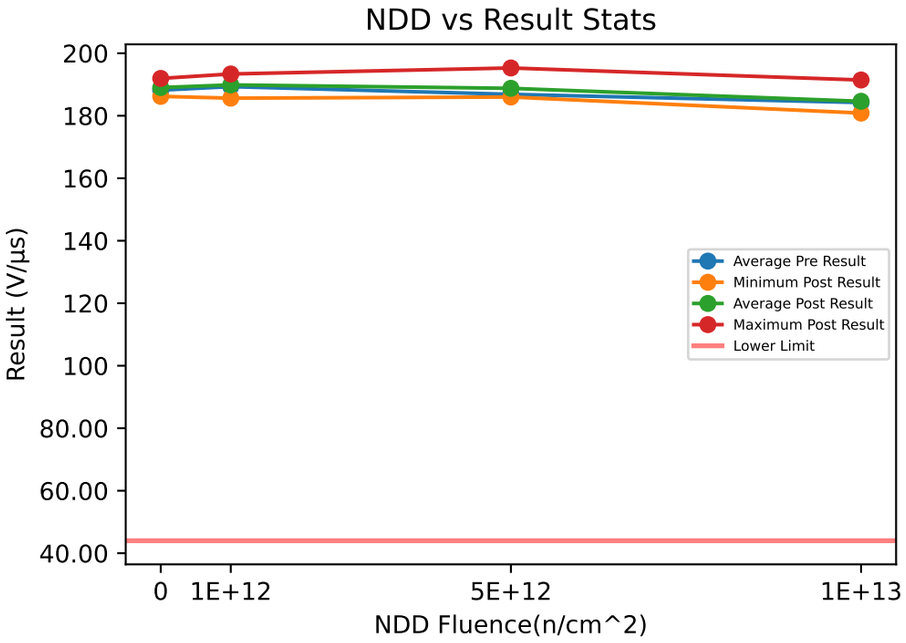
Test Results (Lower Limit = 44.0 (V/µs))

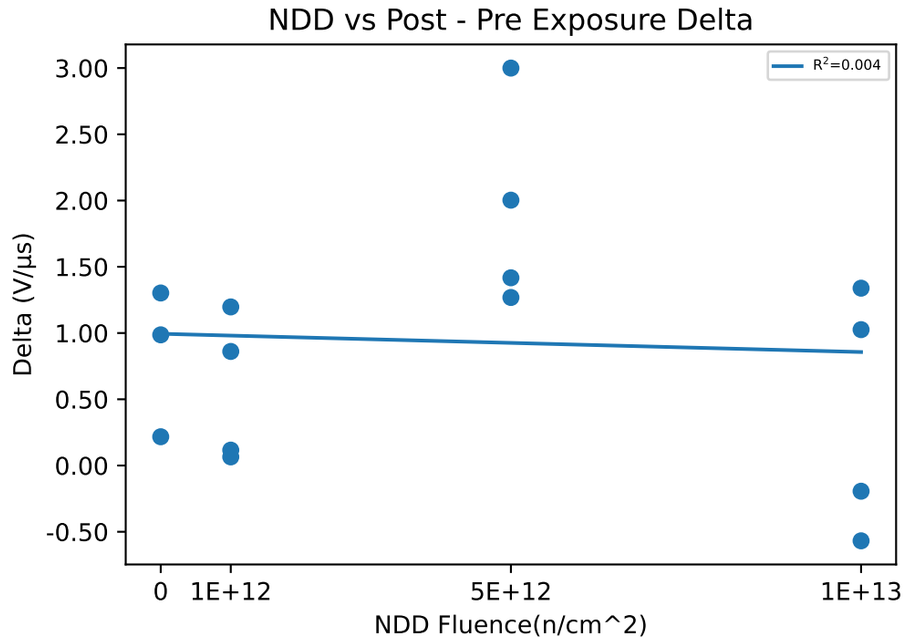
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	193.71	194.03	0.3232
304	1e+12	NDD Unbiased	188.3	190.35	2.0535
305	1e+12	NDD Unbiased	189.59	188.21	-1.388
306	1e+12	NDD Unbiased	188.7	190.35	1.6495
307	5e+12	NDD Unbiased	187.7	187.4	-0.2964
308	5e+12	NDD Unbiased	186.08	187.33	1.2461
309	5e+12	NDD Unbiased	189.06	187.93	-1.1233
310	5e+12	NDD Unbiased	192.38	195.26	2.8799
311	1e+13	NDD Unbiased	189.13	187.44	-1.6974
312	1e+13	NDD Unbiased	186.18	187.86	1.681
313	1e+13	NDD Unbiased	179.75	180.09	0.34
314	1e+13	NDD Unbiased	180.33	182.69	2.3632
315	0	Correlation	191.58	193.1	1.5209
316	0	Correlation	186.89	187.44	0.5561
317	0	Correlation	189.7	188.75	-0.9522

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	186.89	189.39	191.58	2.3629	187.44	189.77	193.1	2.9625	-0.9522	0.37493	1.5209	1.2465
1e+12	188.3	190.08	193.71	2.4843	188.21	190.73	194.03	2.4211	-1.388	0.65955	2.0535	1.5523
5e+12	186.08	188.8	192.38	2.6751	187.33	189.48	195.26	3.8612	-1.1233	0.67657	2.8799	1.7668
1e+13	179.75	183.85	189.13	4.5669	180.09	184.52	187.86	3.7709	-1.6974	0.6717	2.3632	1.7891

Device Test: 19.36; WDO_SLEW_RATE_FALL





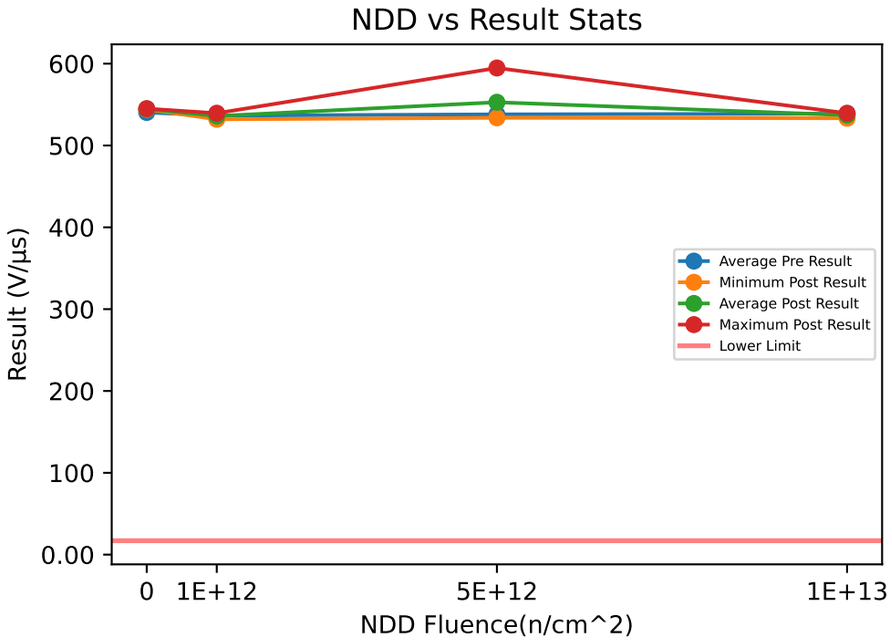
Test Results (Lower Limit = 44.0 (V/µs))

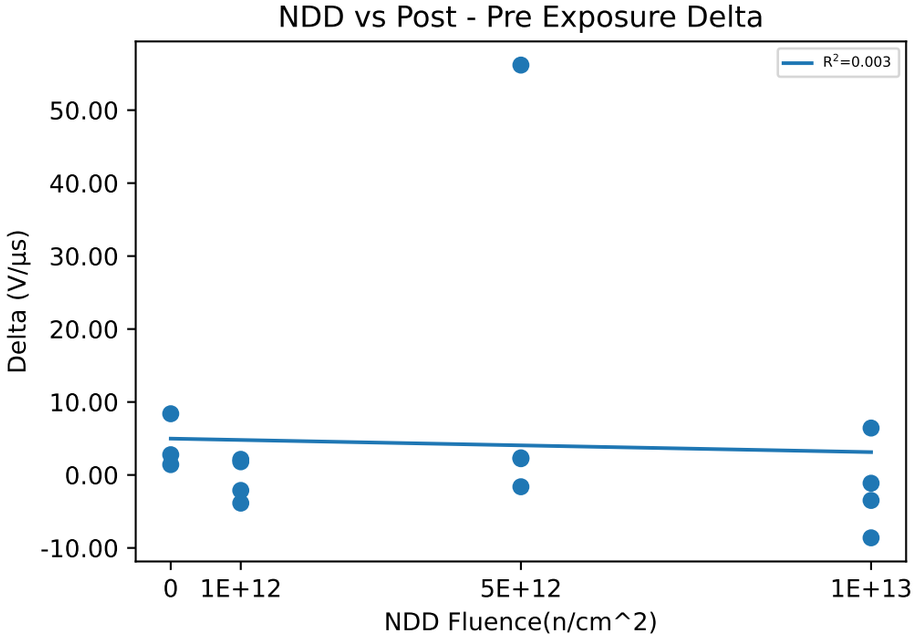
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	192.51	193.37	0.861
304	1e+12	NDD Unbiased	191.8	193	1.1971
305	1e+12	NDD Unbiased	185.57	185.63	0.0651
306	1e+12	NDD Unbiased	187.37	187.49	0.1163
307	5e+12	NDD Unbiased	183.99	185.99	2.0028
308	5e+12	NDD Unbiased	186.21	187.48	1.2683
309	5e+12	NDD Unbiased	184.93	186.34	1.417
310	5e+12	NDD Unbiased	192.29	195.29	2.9998
311	1e+13	NDD Unbiased	190.1	191.44	1.3385
312	1e+13	NDD Unbiased	182.09	183.11	1.0256
313	1e+13	NDD Unbiased	181.42	180.85	-0.5683
314	1e+13	NDD Unbiased	183.28	183.09	-0.1939
315	0	Correlation	190.64	191.94	1.3022
316	0	Correlation	185.98	186.2	0.2172
317	0	Correlation	187.94	188.92	0.9864

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	185.98	188.19	190.64	2.3391	186.2	189.02	191.94	2.8728	0.2172	0.83527	1.3022	0.55807
1e+12	185.57	189.31	192.51	3.3758	185.63	189.87	193.37	3.9008	0.0651	0.55987	1.1971	0.55925
5e+12	183.99	186.85	192.29	3.7363	185.99	188.77	195.29	4.3881	1.2683	1.922	2.9998	0.78539
1e+13	181.42	184.22	190.1	3.9944	180.85	184.62	191.44	4.6667	-0.5683	0.40048	1.3385	0.92421

Device Test: 19.37; RESET_SLEW_RATE_RISE





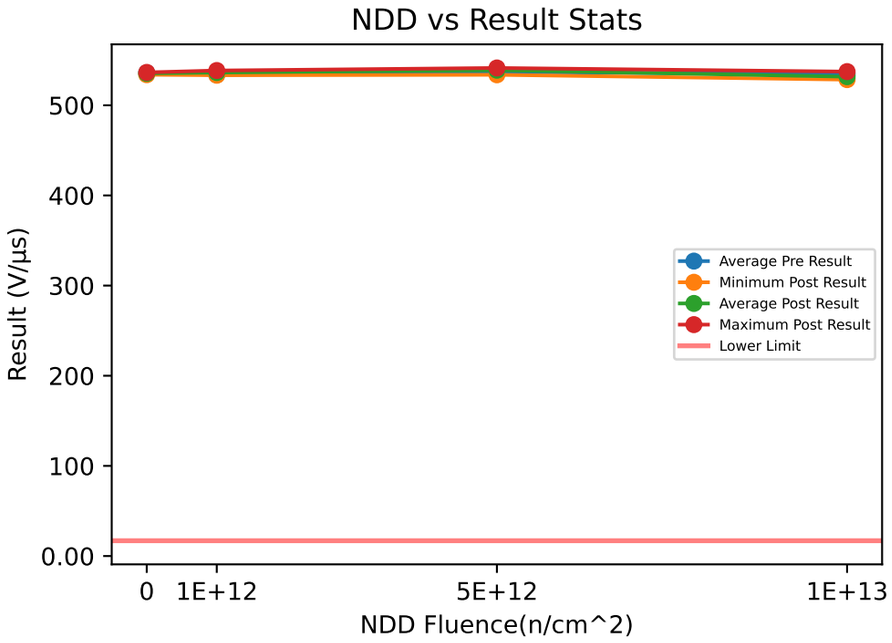
Test Results (Lower Limit = 17.0 (V/µs))

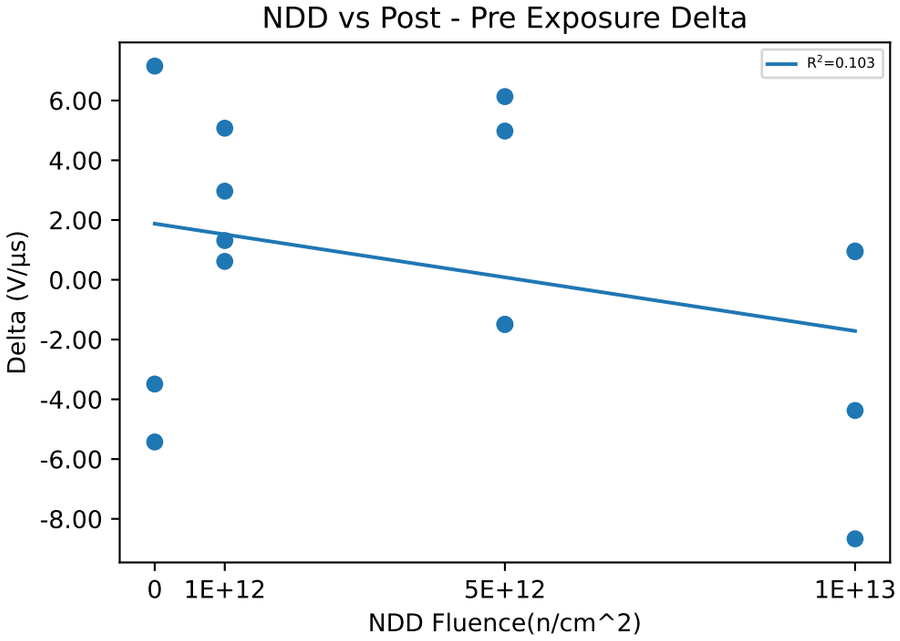
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	533.8	535.61	1.8059
304	1e+12	NDD Unbiased	541.56	539.44	-2.1184
305	1e+12	NDD Unbiased	535.88	532.02	-3.8604
306	1e+12	NDD Unbiased	534.79	536.93	2.1431
307	5e+12	NDD Unbiased	539.59	537.97	-1.6163
308	5e+12	NDD Unbiased	531.6	533.83	2.2286
309	5e+12	NDD Unbiased	542.44	544.78	2.3447
310	5e+12	NDD Unbiased	538.55	594.73	56.177
311	1e+13	NDD Unbiased	540.53	539.4	-1.1333
312	1e+13	NDD Unbiased	541.91	533.29	-8.6146
313	1e+13	NDD Unbiased	532.93	539.36	6.4311
314	1e+13	NDD Unbiased	539.88	536.39	-3.4925
315	0	Correlation	543.05	544.47	1.4194
316	0	Correlation	541.36	544.14	2.7765
317	0	Correlation	536.69	545.07	8.3896

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	536.69	540.37	543.05	3.2976	544.14	544.56	545.07	0.47609	1.4194	4.1952	8.3896	3.6953
1e+12	533.8	536.51	541.56	3.473	532.02	536	539.44	3.0943	-3.8604	-0.50745	2.1431	2.956
5e+12	531.6	538.04	542.44	4.6011	533.83	552.83	594.73	28.299	-1.6163	14.784	56.177	27.657
1e+13	532.93	538.81	541.91	4.011	533.29	537.11	539.4	2.9105	-8.6146	-1.7023	6.4311	6.2573

Device Test: 19.38; RESET_SLEW_RATE_RISE





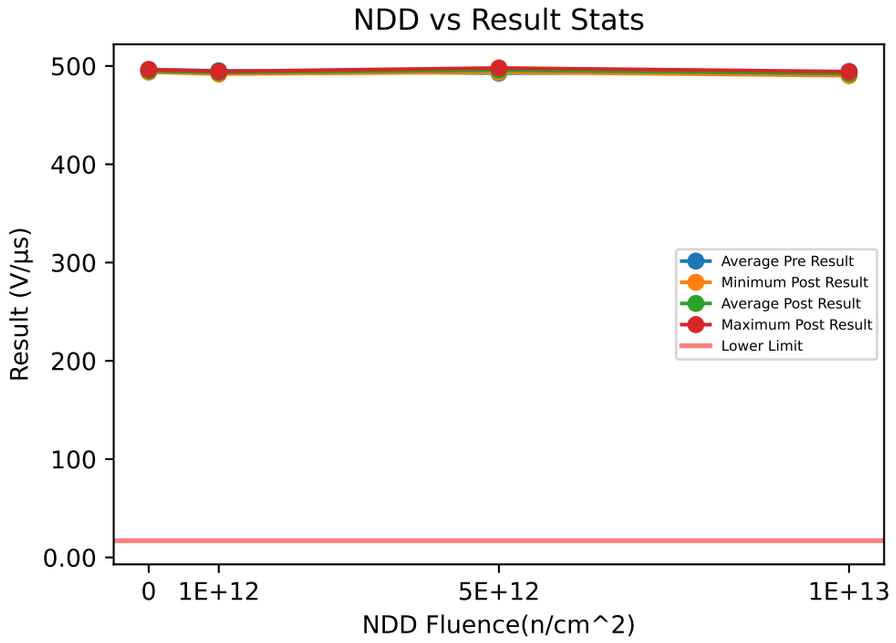
Test Results (Lower Limit = 17.0 (V/µs))

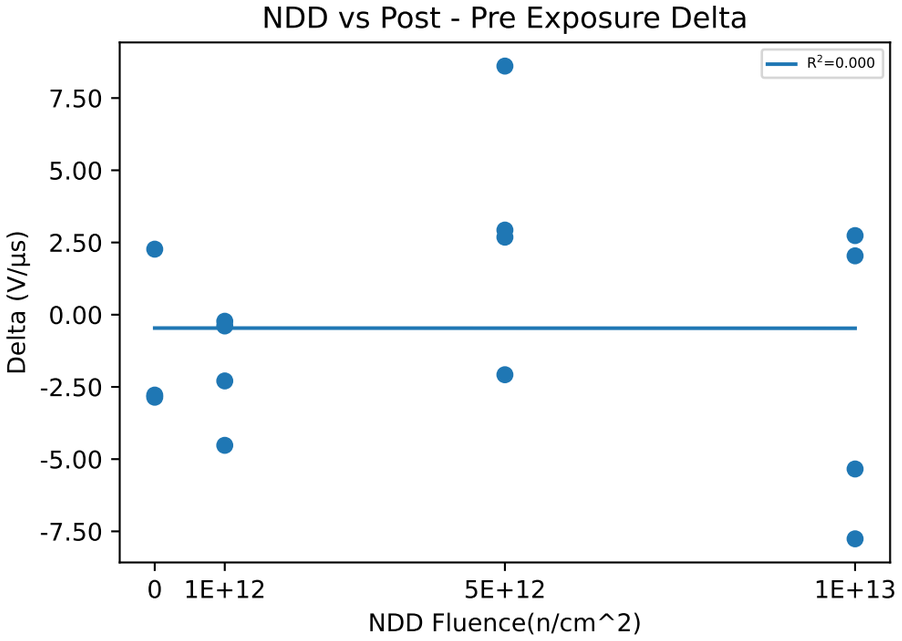
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	536.18	537.49	1.3125
304	1e+12	NDD Unbiased	532.71	533.32	0.6149
305	1e+12	NDD Unbiased	530.62	535.69	5.0726
306	1e+12	NDD Unbiased	535.57	538.53	2.9656
307	5e+12	NDD Unbiased	536.39	541.37	4.9774
308	5e+12	NDD Unbiased	535.3	533.81	-1.4902
309	5e+12	NDD Unbiased	533.26	539.39	6.1296
310	5e+12	NDD Unbiased	542.53	541.04	-1.4932
311	1e+13	NDD Unbiased	536.37	537.34	0.9623
312	1e+13	NDD Unbiased	530.69	531.63	0.9403
313	1e+13	NDD Unbiased	538	529.33	-8.6687
314	1e+13	NDD Unbiased	532.82	528.45	-4.3742
315	0	Correlation	529.28	536.43	7.1519
316	0	Correlation	539.37	533.94	-5.4277
317	0	Correlation	539.37	535.88	-3.4885

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	529.28	536	539.37	5.8265	533.94	535.42	536.43	1.3046	-5.4277	-0.5881	7.1519	6.7728
1e+12	530.62	533.77	536.18	2.5879	533.32	536.26	538.53	2.2824	0.6149	2.4914	5.0726	1.9831
5e+12	533.26	536.87	542.53	3.9912	533.81	538.9	541.37	3.5034	-1.4932	2.0309	6.1296	4.0947
1e+13	530.69	534.47	538	3.3197	528.45	531.69	537.34	3.9994	-8.6687	-2.7851	0.9623	4.657

Device Test: 19.39; RESET_SLEW_RATE_RISE





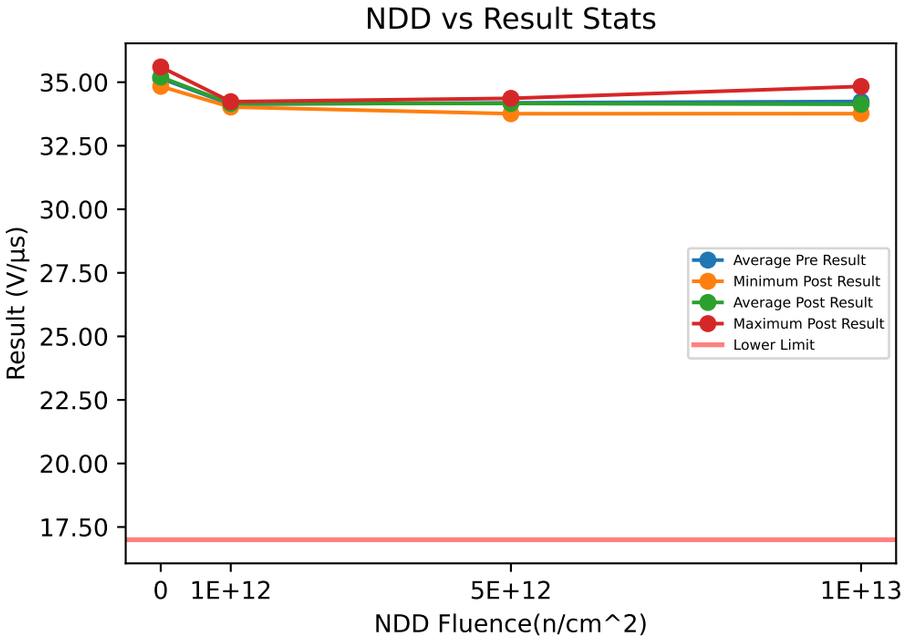
Test Results (Lower Limit = 17.0 (V/µs))

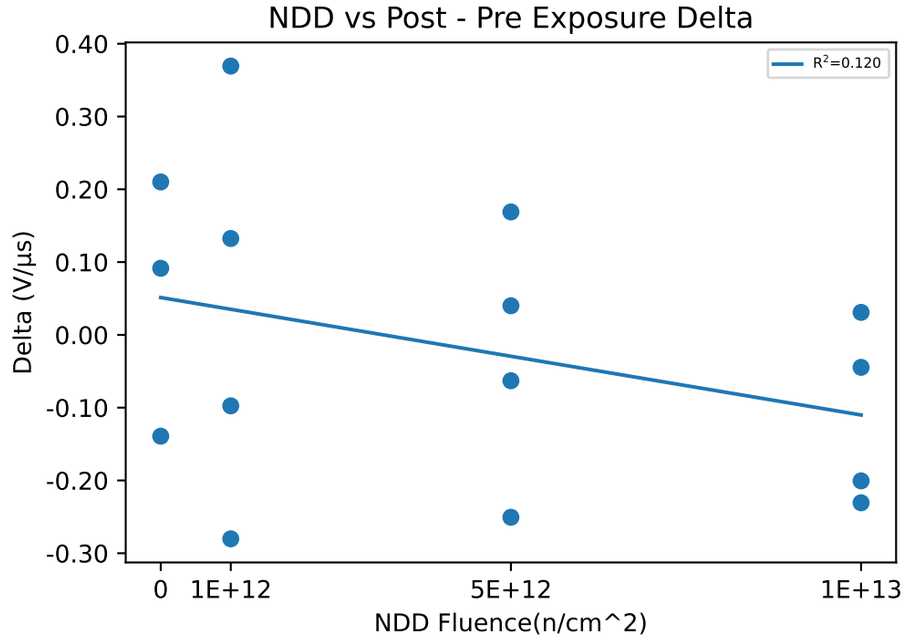
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	496.31	491.79	-4.5222
304	1e+12	NDD Unbiased	494.73	494.5	-0.2259
305	1e+12	NDD Unbiased	493.04	492.65	-0.3895
306	1e+12	NDD Unbiased	496.6	494.31	-2.2926
307	5e+12	NDD Unbiased	492.02	494.95	2.9299
308	5e+12	NDD Unbiased	487.62	496.23	8.6074
309	5e+12	NDD Unbiased	495.29	497.97	2.6841
310	5e+12	NDD Unbiased	495.66	493.58	-2.078
311	1e+13	NDD Unbiased	499.35	491.59	-7.7585
312	1e+13	NDD Unbiased	495.4	490.06	-5.3408
313	1e+13	NDD Unbiased	490.17	492.91	2.7391
314	1e+13	NDD Unbiased	492.28	494.31	2.038
315	0	Correlation	496.6	493.74	-2.8567
316	0	Correlation	492.41	494.67	2.269
317	0	Correlation	499.31	496.53	-2.7831

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	492.41	496.11	499.31	3.4807	493.74	494.98	496.53	1.4191	-2.8567	-1.1236	2.269	2.9383
1e+12	493.04	495.17	496.6	1.6416	491.79	493.31	494.5	1.314	-4.5222	-1.8575	-0.2259	2.0089
5e+12	487.62	492.65	495.66	3.7278	493.58	495.68	497.97	1.8709	-2.078	3.0358	8.6074	4.3714
1e+13	490.17	494.3	499.35	3.9933	490.06	492.22	494.31	1.8197	-7.7585	-2.0806	2.7391	5.2618

Device Test: 19.4; RESET_SLEW_RATE_RISE





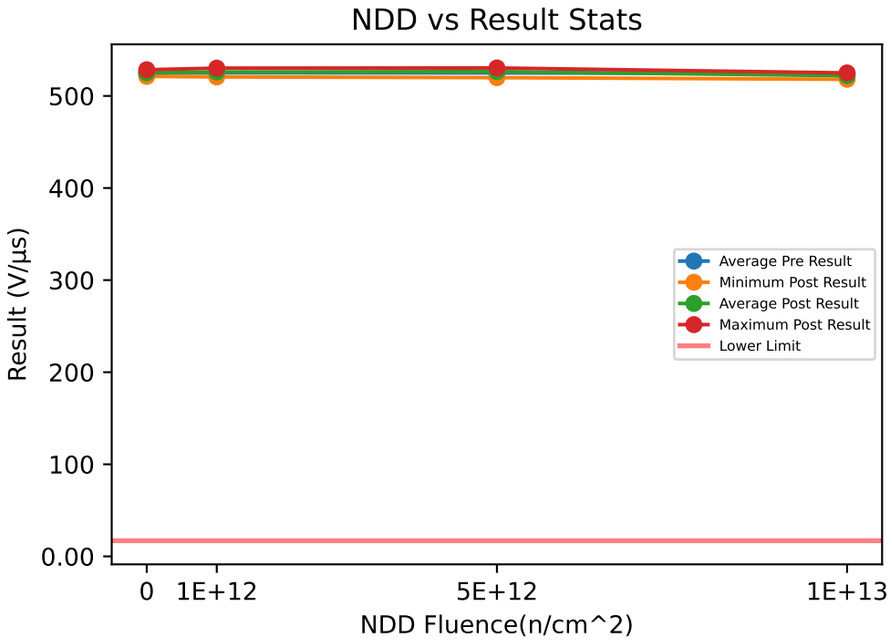
Test Results (Lower Limit = 17.0 (V/µs))

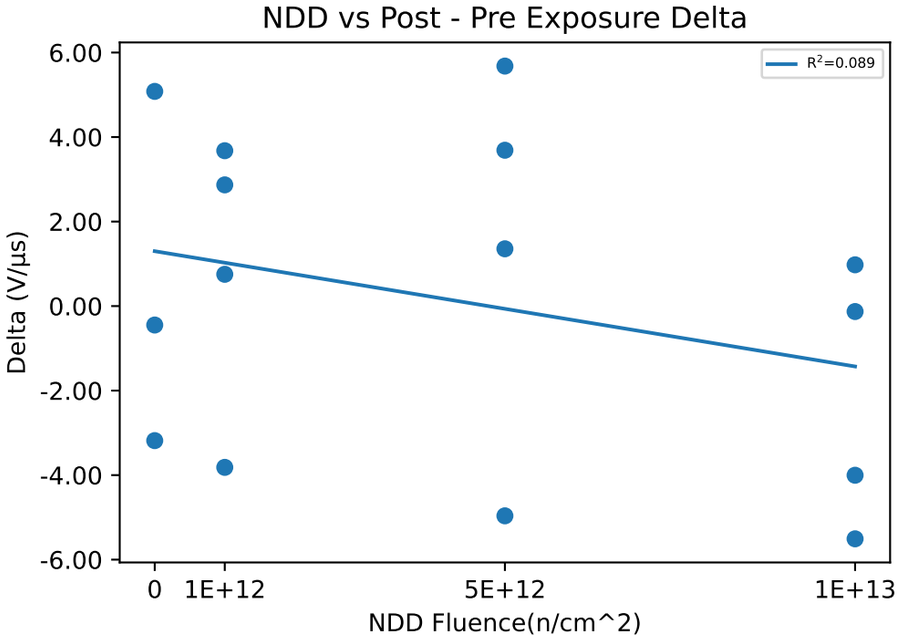
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	34.313	34.215	-0.0975
304	1e+12	NDD Unbiased	34.303	34.022	-0.2802
305	1e+12	NDD Unbiased	33.805	34.174	0.3693
306	1e+12	NDD Unbiased	34.102	34.234	0.1324
307	5e+12	NDD Unbiased	34.417	34.167	-0.2506
308	5e+12	NDD Unbiased	33.591	33.76	0.1689
309	5e+12	NDD Unbiased	34.428	34.365	-0.063
310	5e+12	NDD Unbiased	34.321	34.361	0.04
311	1e+13	NDD Unbiased	34.802	34.833	0.0309
312	1e+13	NDD Unbiased	34.112	33.911	-0.2006
313	1e+13	NDD Unbiased	33.807	33.763	-0.0446
314	1e+13	NDD Unbiased	34.244	34.014	-0.2307
315	0	Correlation	35.083	35.174	0.0915
316	0	Correlation	34.976	34.837	-0.1392
317	0	Correlation	35.389	35.599	0.2101

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	34.976	35.149	35.389	0.21428	34.837	35.203	35.599	0.38188	-0.1392	0.054133	0.2101	0.17762
1e+12	33.805	34.13	34.313	0.23776	34.022	34.161	34.234	0.096033	-0.2802	0.031	0.3693	0.28171
5e+12	33.591	34.189	34.428	0.40182	33.76	34.163	34.365	0.2843	-0.2506	-0.026175	0.1689	0.17716
1e+13	33.807	34.241	34.802	0.416	33.763	34.13	34.833	0.47953	-0.2307	-0.11125	0.0309	0.12503

Device Test: 19.40; RESET_SLEW_RATE_RISE





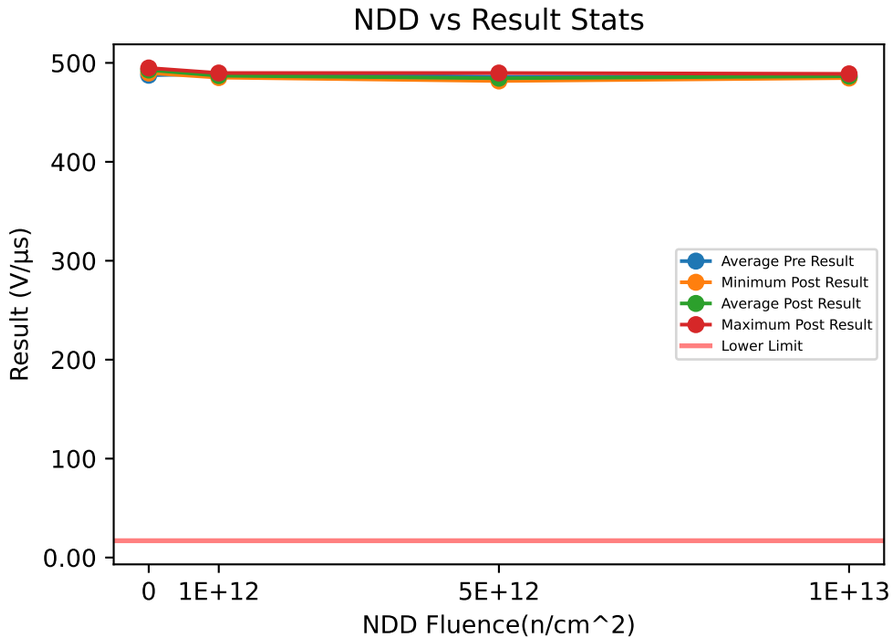
Test Results (Lower Limit = 17.0 (V/µs))

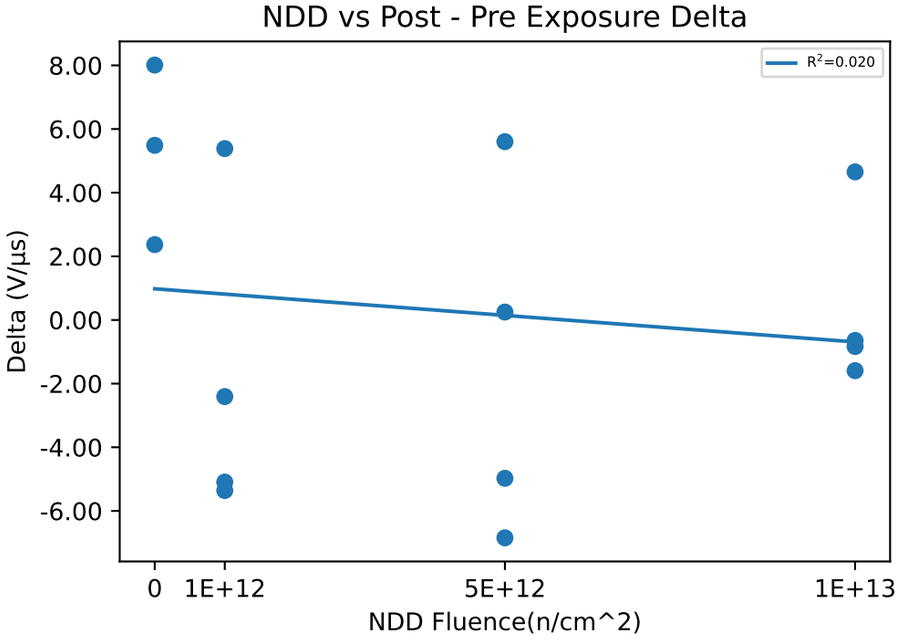
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	527.7	528.45	0.7522
304	1e+12	NDD Unbiased	521.05	524.73	3.6768
305	1e+12	NDD Unbiased	524.46	520.64	-3.8166
306	1e+12	NDD Unbiased	527.3	530.17	2.8686
307	5e+12	NDD Unbiased	520.68	526.36	5.6798
308	5e+12	NDD Unbiased	524.83	519.87	-4.9634
309	5e+12	NDD Unbiased	526.67	530.36	3.6882
310	5e+12	NDD Unbiased	527.86	529.22	1.3557
311	1e+13	NDD Unbiased	530.13	524.63	-5.5075
312	1e+13	NDD Unbiased	520.2	520.07	-0.129
313	1e+13	NDD Unbiased	522.06	518.05	-4.0032
314	1e+13	NDD Unbiased	524	524.98	0.9769
315	0	Correlation	524.46	521.28	-3.1837
316	0	Correlation	528.89	528.44	-0.4479
317	0	Correlation	520.18	525.26	5.0807

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	520.18	524.51	528.89	4.3543	521.28	524.99	528.44	3.5876	-3.1837	0.48303	5.0807	4.2101
1e+12	521.05	525.13	527.7	3.0765	520.64	526	530.17	4.2318	-3.8166	0.87025	3.6768	3.3591
5e+12	520.68	525.01	527.86	3.147	519.87	526.45	530.36	4.7015	-4.9634	1.4401	5.6798	4.6203
1e+13	520.2	524.1	530.13	4.3135	518.05	521.93	524.98	3.4182	-5.5075	-2.1657	0.9769	3.0859

Device Test: 19.41; PWRGD_SLEW_RATE_RISE





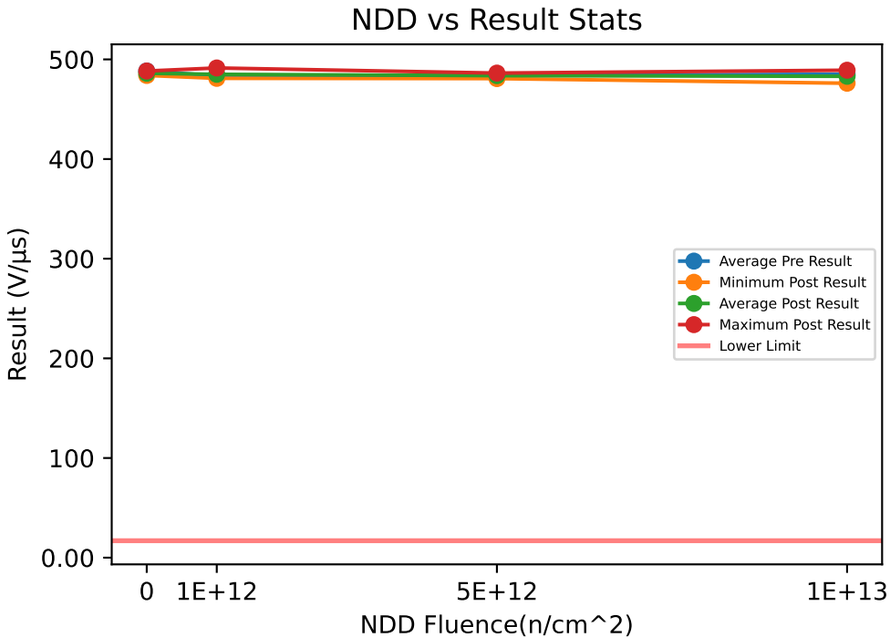
Test Results (Lower Limit = 17.0 (V/µs))

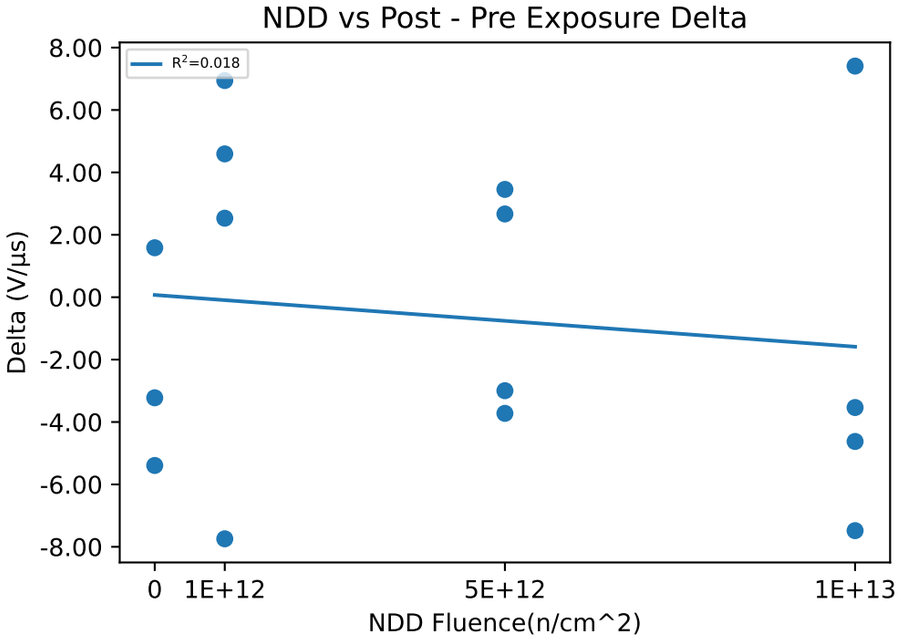
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	487.53	485.12	-2.4068
304	1e+12	NDD Unbiased	495.12	489.77	-5.3583
305	1e+12	NDD Unbiased	482.67	488.06	5.3859
306	1e+12	NDD Unbiased	490.52	485.43	-5.0927
307	5e+12	NDD Unbiased	487.98	483	-4.9753
308	5e+12	NDD Unbiased	488.56	481.72	-6.8451
309	5e+12	NDD Unbiased	484.15	489.75	5.6032
310	5e+12	NDD Unbiased	483.21	483.46	0.2488
311	1e+13	NDD Unbiased	486.5	484.91	-1.5929
312	1e+13	NDD Unbiased	484.29	488.94	4.6535
313	1e+13	NDD Unbiased	485.3	484.65	-0.6421
314	1e+13	NDD Unbiased	488.52	487.68	-0.8333
315	0	Correlation	485.72	493.73	8.0097
316	0	Correlation	487.39	489.76	2.3684
317	0	Correlation	489.37	494.86	5.4878

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	485.72	487.49	489.37	1.8301	489.76	492.78	494.86	2.6772	2.3684	5.2886	8.0097	2.8259
1e+12	482.67	488.96	495.12	5.2298	485.12	487.09	489.77	2.2152	-5.3583	-1.868	5.3859	5.0163
5e+12	483.21	485.98	488.56	2.6861	481.72	484.48	489.75	3.5901	-6.8451	-1.4921	5.6032	5.6024
1e+13	484.29	486.15	488.52	1.8187	484.65	486.55	488.94	2.1041	-1.5929	0.3963	4.6535	2.8677

Device Test: 19.42; WDO_SLEW_RATE_RISE





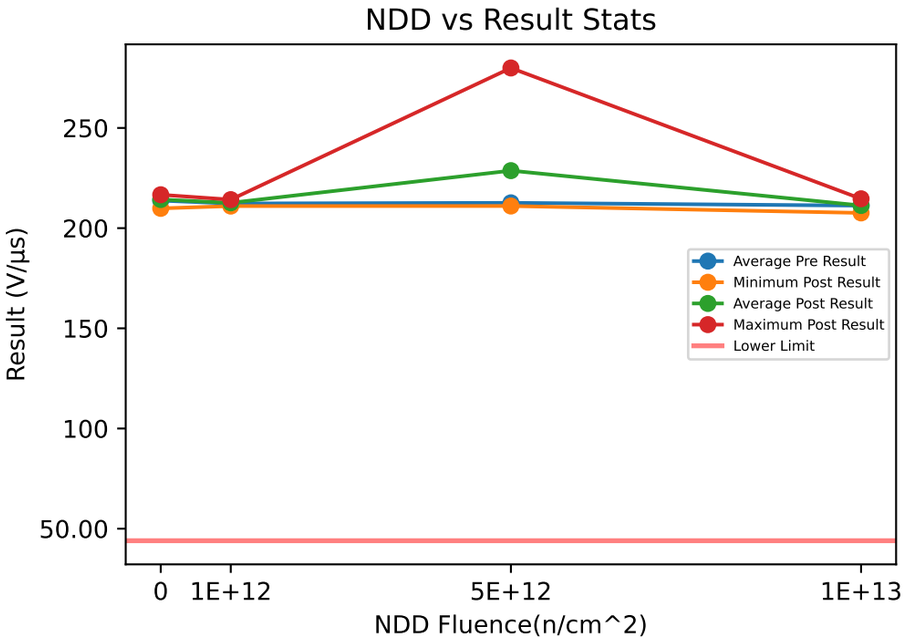
Test Results (Lower Limit = 17.0 (V/µs))

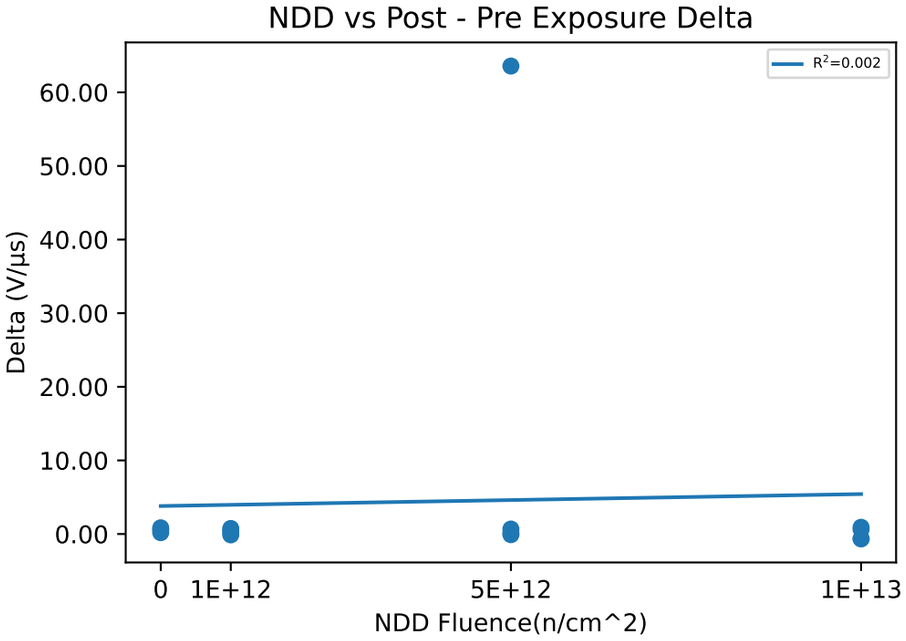
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	479.66	482.19	2.5312
304	1e+12	NDD Unbiased	484.44	491.38	6.9437
305	1e+12	NDD Unbiased	480.93	485.52	4.593
306	1e+12	NDD Unbiased	488.72	480.98	-7.7439
307	5e+12	NDD Unbiased	486.67	482.94	-3.7228
308	5e+12	NDD Unbiased	478.06	480.73	2.6675
309	5e+12	NDD Unbiased	487.81	484.81	-2.9968
310	5e+12	NDD Unbiased	482.79	486.24	3.4549
311	1e+13	NDD Unbiased	491.17	486.54	-4.6239
312	1e+13	NDD Unbiased	483.55	476.07	-7.4819
313	1e+13	NDD Unbiased	483.9	480.37	-3.536
314	1e+13	NDD Unbiased	481.72	489.13	7.4076
315	0	Correlation	489.29	483.89	-5.3936
316	0	Correlation	486.74	488.33	1.5846
317	0	Correlation	489.15	485.93	-3.2239

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	486.74	488.39	489.29	1.4322	483.89	486.05	488.33	2.2187	-5.3936	-2.3443	1.5846	3.5713
1e+12	479.66	483.44	488.72	4.0599	480.98	485.02	491.38	4.6587	-7.7439	1.581	6.9437	6.4727
5e+12	478.06	483.83	487.81	4.4068	480.73	483.68	486.24	2.3891	-3.7228	-0.1493	3.4549	3.7329
1e+13	481.72	485.09	491.17	4.1665	476.07	483.03	489.13	5.9192	-7.4819	-2.0586	7.4076	6.5265

Device Test: 19.43; RESET_SLEW_RATE_FALL





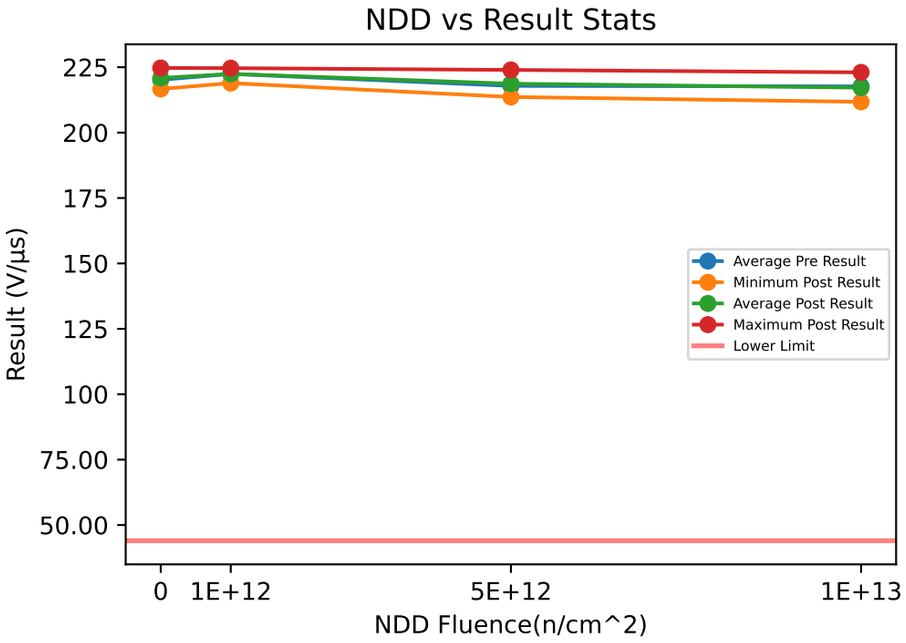
Test Results (Lower Limit = 44.0 (V/µs))

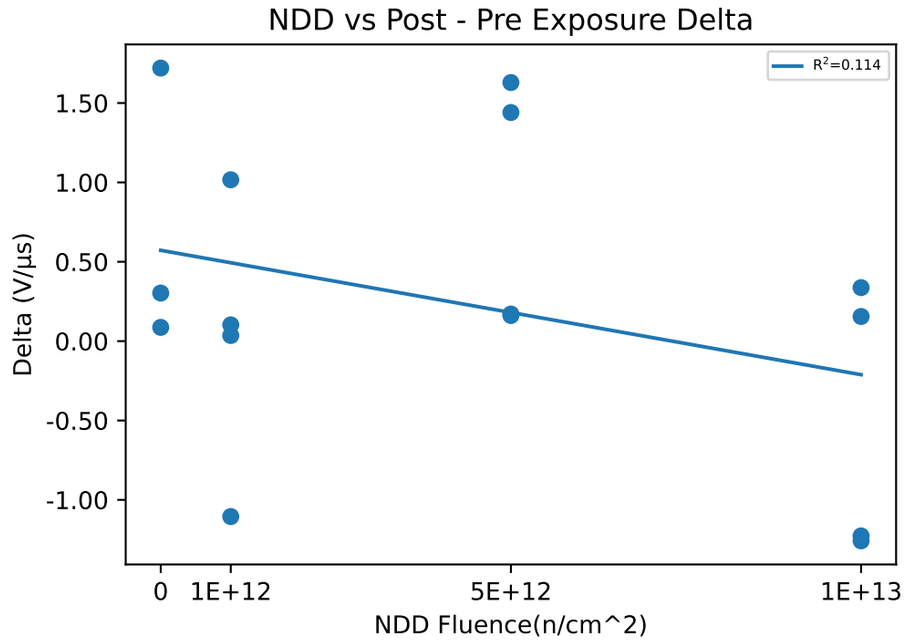
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	212.85	213.34	0.4845
304	1e+12	NDD Unbiased	212.07	211.96	-0.1172
305	1e+12	NDD Unbiased	213.47	214.23	0.7532
306	1e+12	NDD Unbiased	210.8	211	0.2003
307	5e+12	NDD Unbiased	211.64	212.31	0.6761
308	5e+12	NDD Unbiased	211.57	211.48	-0.0882
309	5e+12	NDD Unbiased	210.93	211.04	0.107
310	5e+12	NDD Unbiased	216.36	279.93	63.569
311	1e+13	NDD Unbiased	212.55	211.92	-0.6328
312	1e+13	NDD Unbiased	215.3	214.65	-0.6528
313	1e+13	NDD Unbiased	206.68	207.59	0.9142
314	1e+13	NDD Unbiased	210.43	211.05	0.6196
315	0	Correlation	215.44	216.28	0.8426
316	0	Correlation	209.68	209.86	0.1842
317	0	Correlation	216.11	216.66	0.5551

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	209.68	213.74	216.11	3.5338	209.86	214.27	216.66	3.8199	0.1842	0.5273	0.8426	0.33008
1e+12	210.8	212.3	213.47	1.1513	211	212.63	214.23	1.432	-0.1172	0.3302	0.7532	0.37407
5e+12	210.93	212.62	216.36	2.5112	211.04	228.69	279.93	34.164	-0.0882	16.066	63.569	31.67
1e+13	206.68	211.24	215.3	3.6361	207.59	211.3	214.65	2.9092	-0.6528	0.06205	0.9142	0.82277

Device Test: 19.44; RESET_SLEW_RATE_FALL





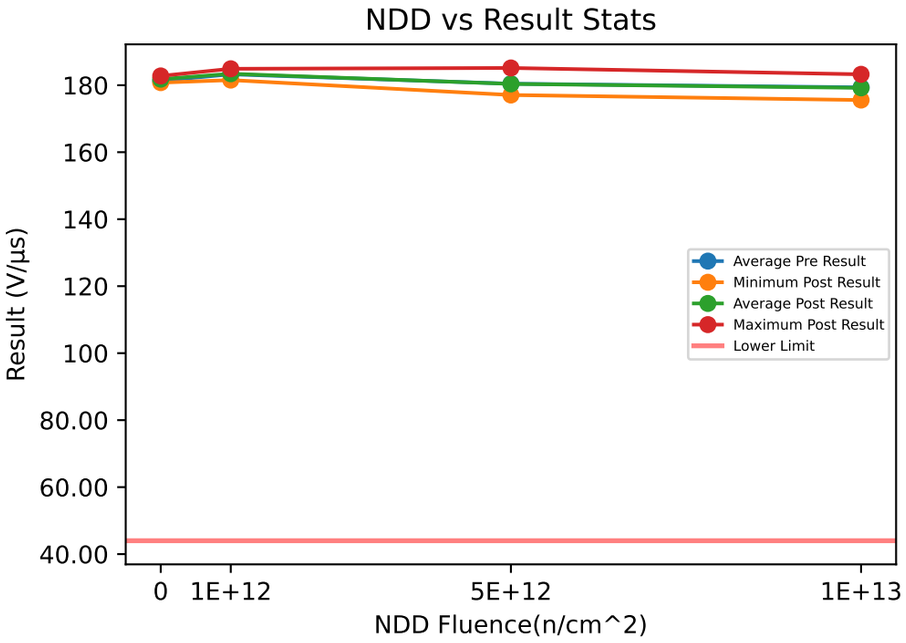
Test Results (Lower Limit = 44.0 (V/µs))

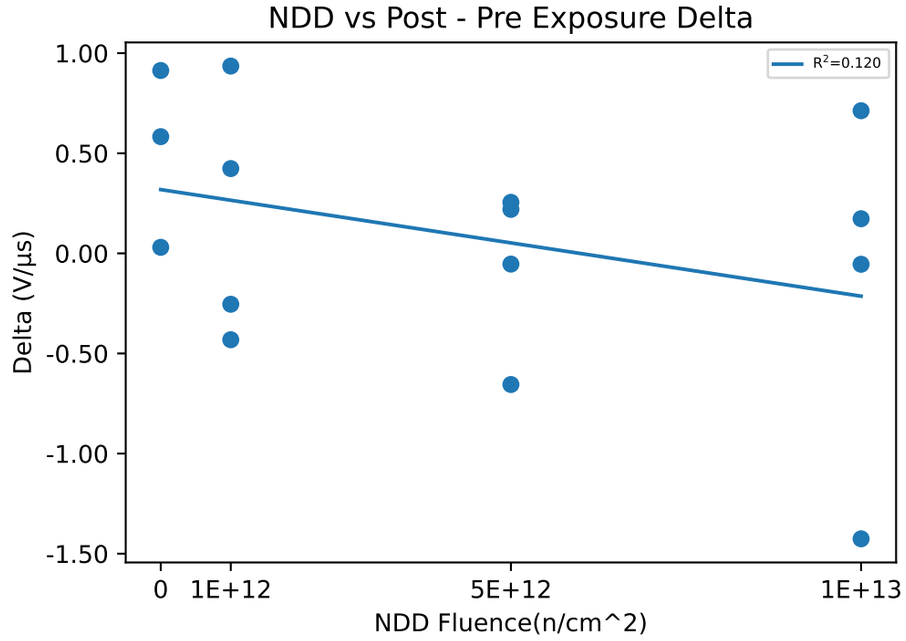
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	225.25	224.15	-1.1052
304	1e+12	NDD Unbiased	224.54	224.64	0.1024
305	1e+12	NDD Unbiased	221.05	222.06	1.0165
306	1e+12	NDD Unbiased	218.89	218.93	0.0356
307	5e+12	NDD Unbiased	213.45	213.62	0.1707
308	5e+12	NDD Unbiased	219.53	220.97	1.4403
309	5e+12	NDD Unbiased	216.12	216.28	0.1614
310	5e+12	NDD Unbiased	222.33	223.96	1.6291
311	1e+13	NDD Unbiased	224.28	223.03	-1.258
312	1e+13	NDD Unbiased	216.15	216.31	0.1553
313	1e+13	NDD Unbiased	211.43	211.76	0.3371
314	1e+13	NDD Unbiased	218.83	217.61	-1.2272
315	0	Correlation	222.99	224.71	1.7202
316	0	Correlation	221.16	221.25	0.0866
317	0	Correlation	216.37	216.67	0.3029

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	216.37	220.17	222.99	3.4173	216.67	220.88	224.71	4.0296	0.0866	0.70323	1.7202	0.88733
1e+12	218.89	222.43	225.25	2.9914	218.93	222.45	224.64	2.5977	-1.1052	0.012325	1.0165	0.86908
5e+12	213.45	217.86	222.33	3.8861	213.62	218.71	223.96	4.6378	0.1614	0.85037	1.6291	0.79395
1e+13	211.43	217.67	224.28	5.3667	211.76	217.18	223.03	4.6359	-1.258	-0.4982	0.3371	0.86285

Device Test: 19.45; RESET_SLEW_RATE_FALL





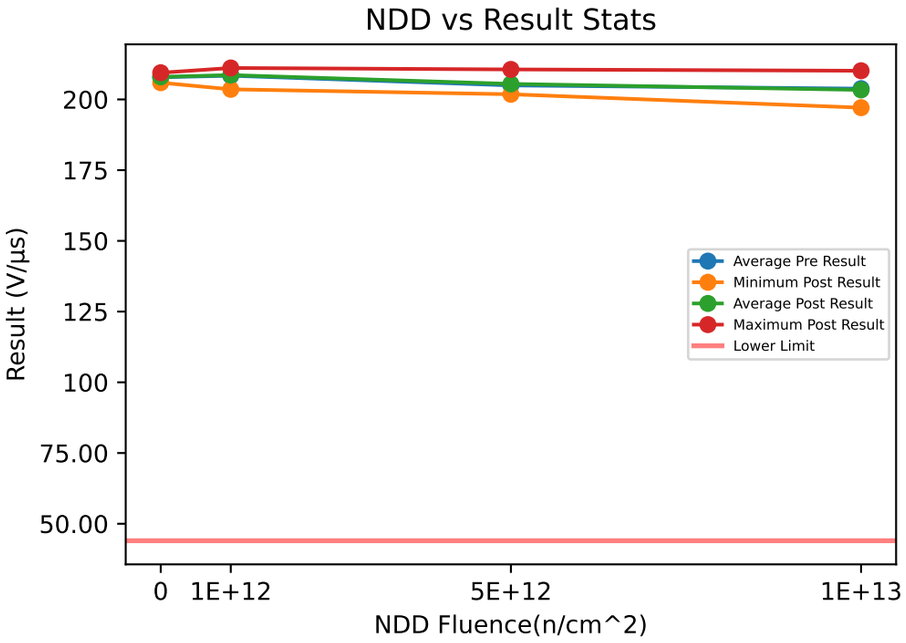
Test Results (Lower Limit = 44.0 (V/µs))

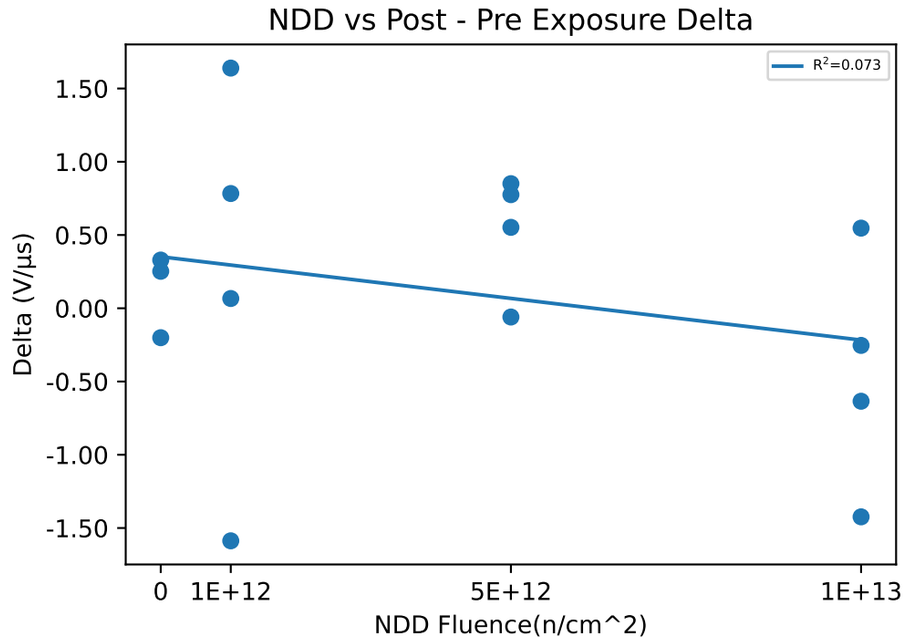
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	184.24	184.66	0.4234
304	1e+12	NDD Unbiased	185.15	184.9	-0.2542
305	1e+12	NDD Unbiased	183.01	182.58	-0.4314
306	1e+12	NDD Unbiased	180.59	181.53	0.9354
307	5e+12	NDD Unbiased	177.66	177.61	-0.0537
308	5e+12	NDD Unbiased	181.5	181.72	0.2197
309	5e+12	NDD Unbiased	177.73	177.07	-0.6551
310	5e+12	NDD Unbiased	184.89	185.14	0.2549
311	1e+13	NDD Unbiased	184.68	183.25	-1.4258
312	1e+13	NDD Unbiased	177.78	177.95	0.1729
313	1e+13	NDD Unbiased	174.86	175.57	0.7124
314	1e+13	NDD Unbiased	180.11	180.06	-0.0545
315	0	Correlation	182.18	182.76	0.5828
316	0	Correlation	181.85	181.88	0.0302
317	0	Correlation	179.85	180.77	0.9133

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	179.85	181.29	182.18	1.2597	180.77	181.8	182.76	1.0015	0.0302	0.50877	0.9133	0.44618
1e+12	180.59	183.25	185.15	1.9763	181.53	183.42	184.9	1.6343	-0.4314	0.1683	0.9354	0.63026
5e+12	177.66	180.44	184.89	3.4634	177.07	180.38	185.14	3.7905	-0.6551	-0.05855	0.2549	0.42094
1e+13	174.86	179.36	184.68	4.1471	175.57	179.21	183.25	3.2596	-1.4258	-0.14875	0.7124	0.91009

Device Test: 19.46; RESET_SLEW_RATE_FALL





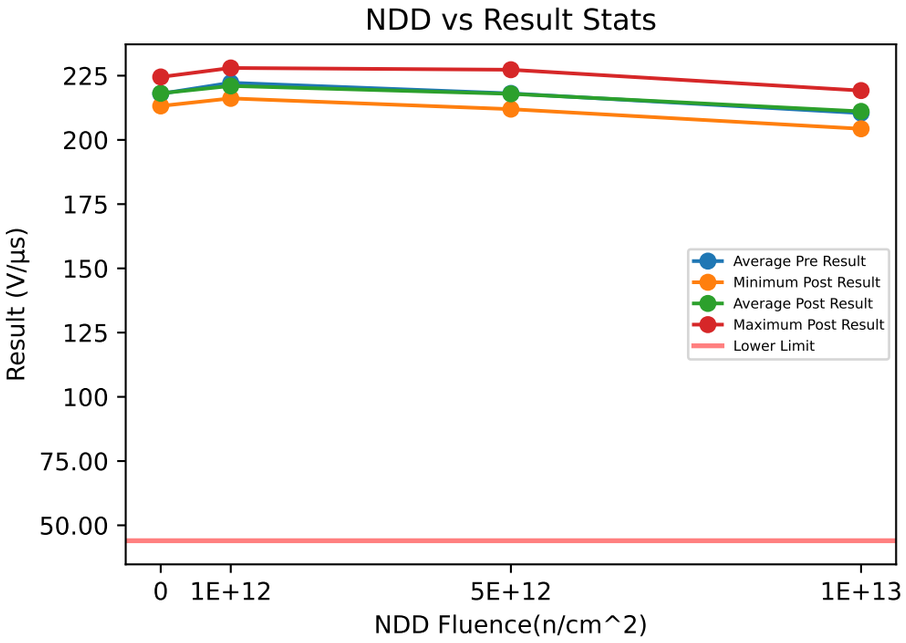
Test Results (Lower Limit = 44.0 (V/µs))

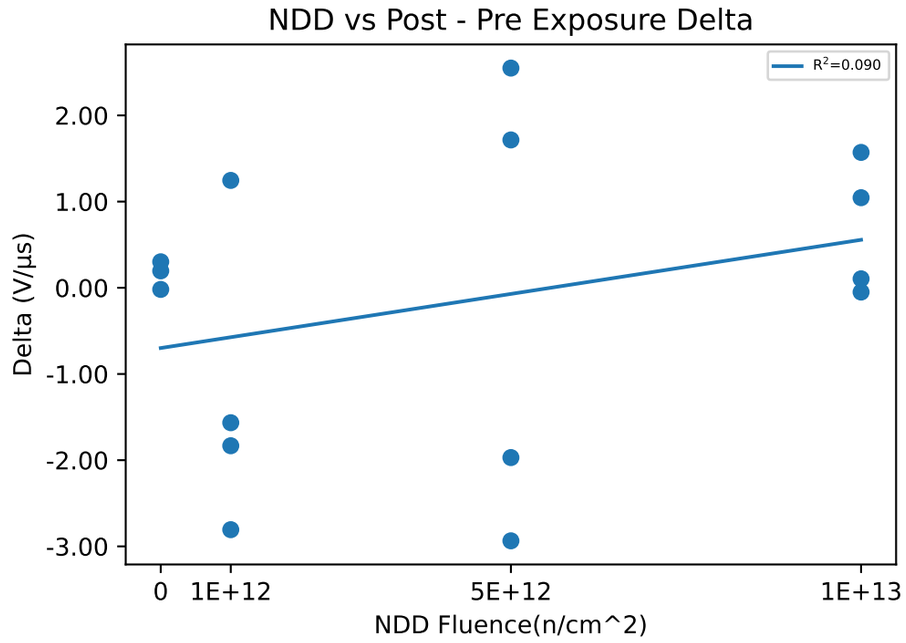
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	210.29	211.08	0.7832
304	1e+12	NDD Unbiased	209.48	211.12	1.6395
305	1e+12	NDD Unbiased	208.61	208.68	0.0666
306	1e+12	NDD Unbiased	205.16	203.57	-1.5874
307	5e+12	NDD Unbiased	201.28	201.83	0.5523
308	5e+12	NDD Unbiased	206.6	207.38	0.7754
309	5e+12	NDD Unbiased	202.2	202.15	-0.0597
310	5e+12	NDD Unbiased	209.75	210.6	0.8505
311	1e+13	NDD Unbiased	209.59	210.14	0.547
312	1e+13	NDD Unbiased	203.28	201.86	-1.4237
313	1e+13	NDD Unbiased	197.72	197.08	-0.6346
314	1e+13	NDD Unbiased	204.64	204.38	-0.2535
315	0	Correlation	209.18	209.43	0.2524
316	0	Correlation	208.77	208.57	-0.2009
317	0	Correlation	205.59	205.91	0.3291

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	205.59	207.85	209.18	1.9674	205.91	207.97	209.43	1.8332	-0.2009	0.12687	0.3291	0.28643
1e+12	205.16	208.39	210.29	2.2589	203.57	208.61	211.12	3.5489	-1.5874	0.22547	1.6395	1.369
5e+12	201.28	204.96	209.75	3.9512	201.83	205.49	210.6	4.2548	-0.0597	0.52963	0.8505	0.41279
1e+13	197.72	203.81	209.59	4.8819	197.08	203.37	210.14	5.4359	-1.4237	-0.4412	0.547	0.81945

Device Test: 19.47; PWRGD_SLEW_RATE_FALL





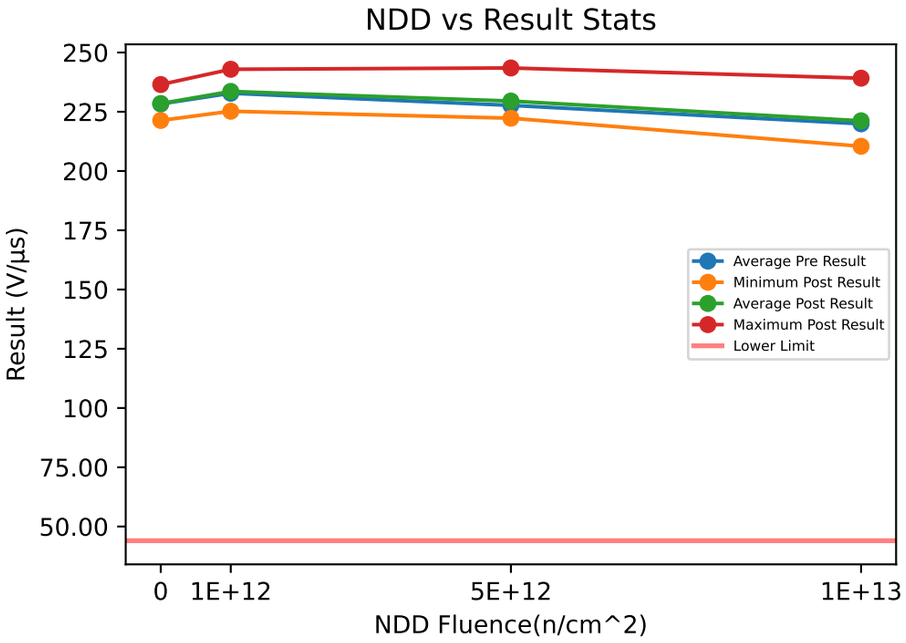
Test Results (Lower Limit = 44.0 (V/µs))

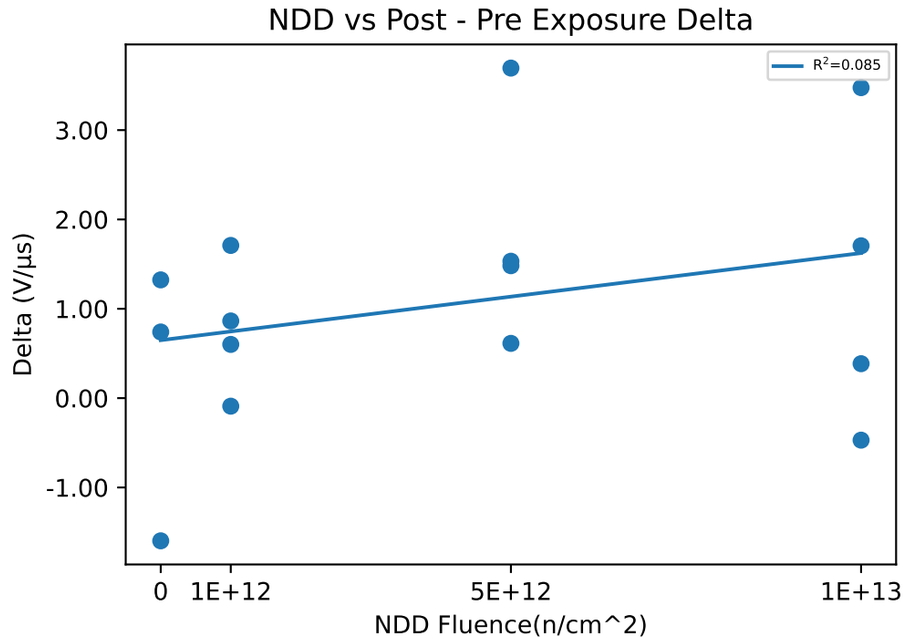
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	230.8	227.99	-2.8063
304	1e+12	NDD Unbiased	220.78	222.03	1.2457
305	1e+12	NDD Unbiased	217.99	216.16	-1.8326
306	1e+12	NDD Unbiased	219.38	217.82	-1.5655
307	5e+12	NDD Unbiased	214.63	216.35	1.7153
308	5e+12	NDD Unbiased	214.9	211.96	-2.9356
309	5e+12	NDD Unbiased	213.54	216.09	2.549
310	5e+12	NDD Unbiased	229.28	227.31	-1.9698
311	1e+13	NDD Unbiased	217.63	219.2	1.5707
312	1e+13	NDD Unbiased	211.64	211.59	-0.0497
313	1e+13	NDD Unbiased	204.22	204.32	0.1042
314	1e+13	NDD Unbiased	208.23	209.28	1.0452
315	0	Correlation	224.19	224.49	0.3016
316	0	Correlation	213.23	213.21	-0.0189
317	0	Correlation	216.49	216.69	0.1964

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	213.23	217.97	224.19	5.6284	213.21	218.13	224.49	5.7777	-0.0189	0.1597	0.3016	0.16337
1e+12	217.99	222.24	230.8	5.8202	216.16	221	227.99	5.2774	-2.8063	-1.2397	1.2457	1.7406
5e+12	213.54	218.09	229.28	7.4833	211.96	217.93	227.31	6.5686	-2.9356	-0.16028	2.549	2.6978
1e+13	204.22	210.43	217.63	5.6772	204.32	211.1	219.2	6.1938	-0.0497	0.6676	1.5707	0.77247

Device Test: 19.48; WDO_SLEW_RATE_FALL





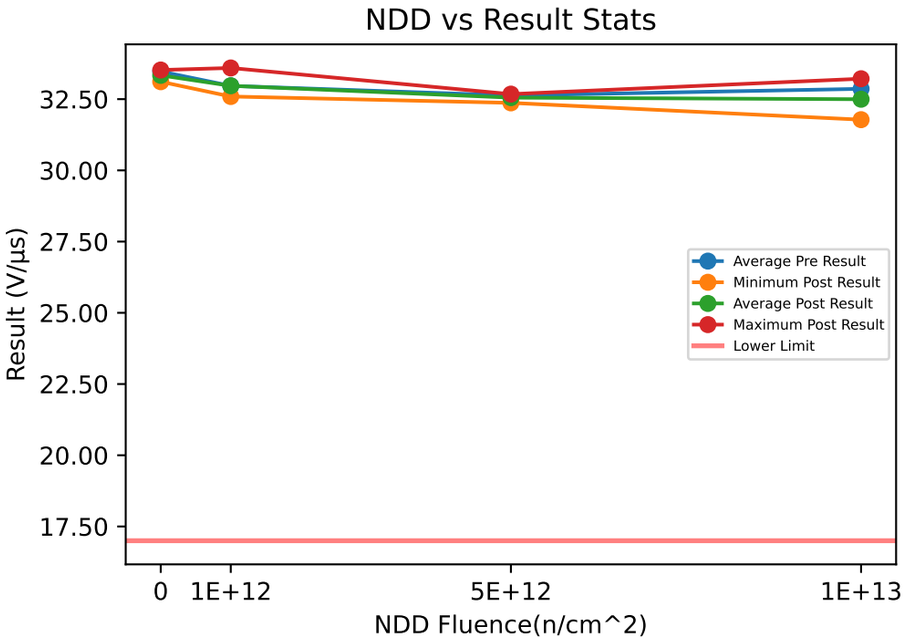
Test Results (Lower Limit = 44.0 (V/µs))

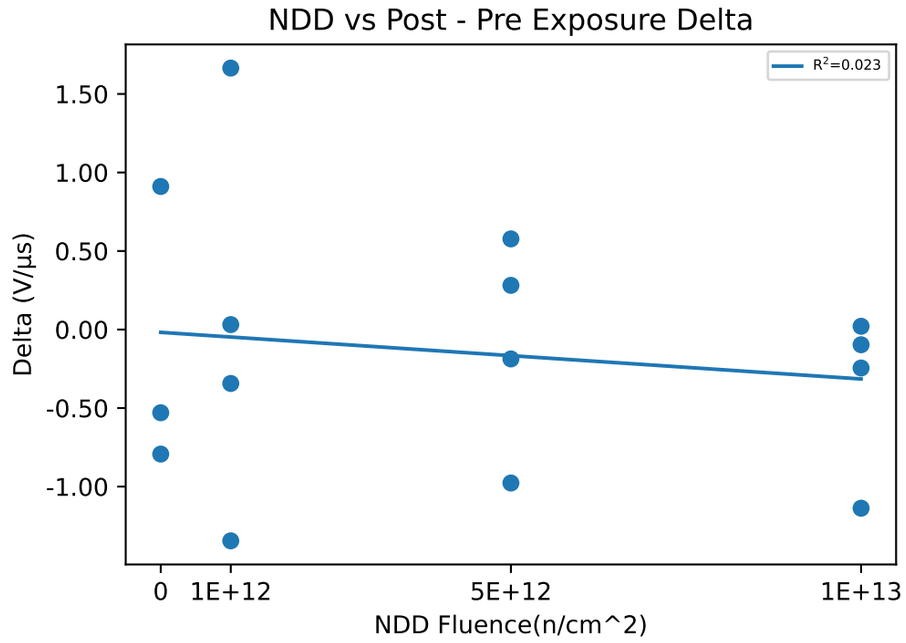
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	240.95	240.86	-0.0901
304	1e+12	NDD Unbiased	241.22	242.93	1.7092
305	1e+12	NDD Unbiased	224.7	225.3	0.6012
306	1e+12	NDD Unbiased	224.36	225.23	0.8638
307	5e+12	NDD Unbiased	220.8	222.29	1.4822
308	5e+12	NDD Unbiased	223.93	225.47	1.5324
309	5e+12	NDD Unbiased	223.17	226.86	3.6944
310	5e+12	NDD Unbiased	242.86	243.48	0.6129
311	1e+13	NDD Unbiased	239.64	239.17	-0.4704
312	1e+13	NDD Unbiased	213.63	215.34	1.7053
313	1e+13	NDD Unbiased	210.05	210.44	0.3854
314	1e+13	NDD Unbiased	216.34	219.81	3.4753
315	0	Correlation	235.75	236.49	0.7403
316	0	Correlation	220.01	221.34	1.3237
317	0	Correlation	229.17	227.57	-1.5972

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	220.01	228.31	235.75	7.903	221.34	228.47	236.49	7.6161	-1.5972	0.1556	1.3237	1.5457
1e+12	224.36	232.81	241.22	9.5616	225.23	233.58	242.93	9.6417	-0.0901	0.77103	1.7092	0.74367
5e+12	220.8	227.69	242.86	10.202	222.29	229.52	243.48	9.498	0.6129	1.8305	3.6944	1.3124
1e+13	210.05	219.92	239.64	13.4	210.44	221.19	239.17	12.584	-0.4704	1.2739	3.4753	1.7189

Device Test: 19.5; PWRGD_SLEW_RATE_RISE





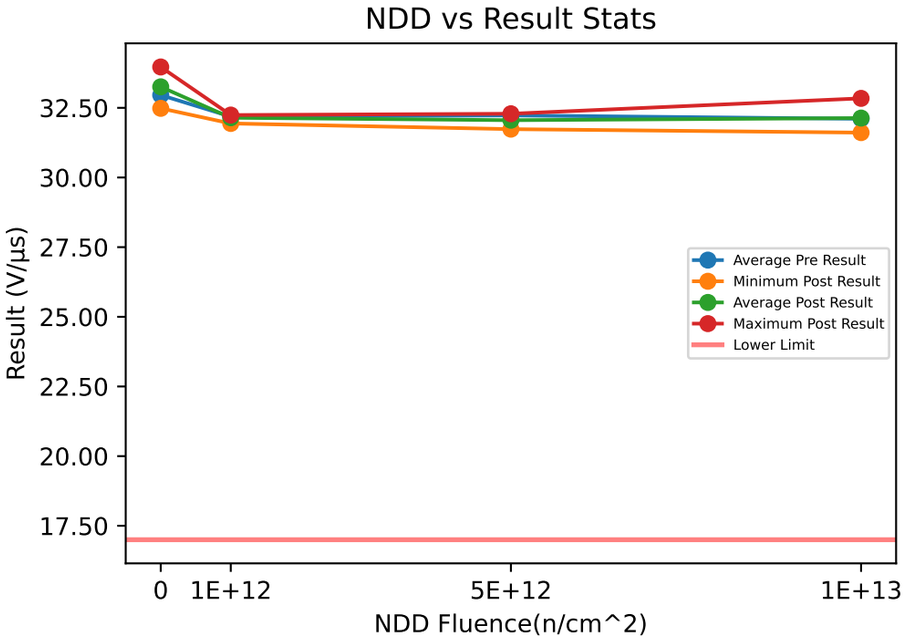
Test Results (Lower Limit = 17.0 (V/µs))

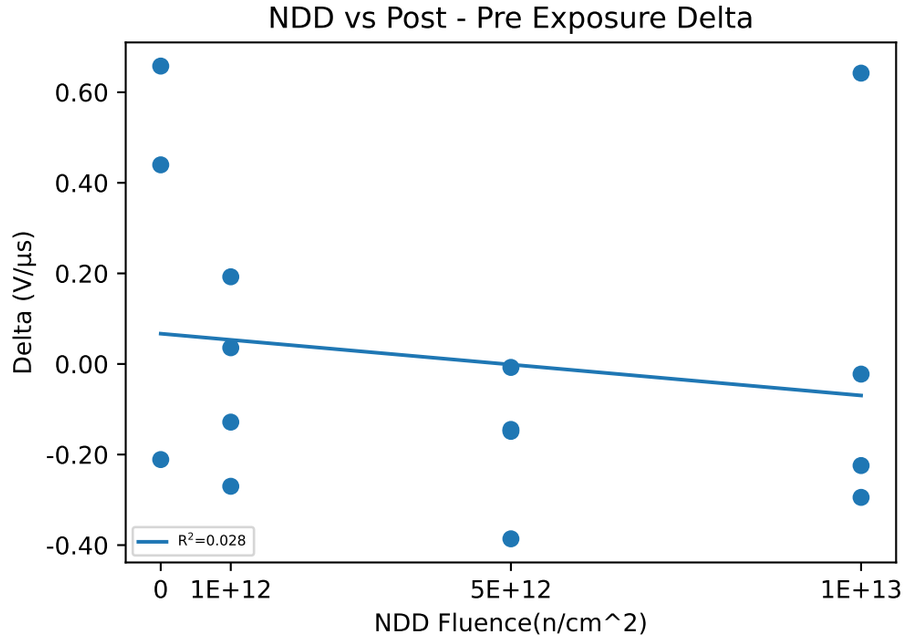
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	33.938	32.593	-1.3453
304	1e+12	NDD Unbiased	32.604	32.635	0.0315
305	1e+12	NDD Unbiased	31.929	33.594	1.6648
306	1e+12	NDD Unbiased	33.395	33.051	-0.3434
307	5e+12	NDD Unbiased	32.364	32.646	0.2814
308	5e+12	NDD Unbiased	31.941	32.518	0.5772
309	5e+12	NDD Unbiased	33.654	32.676	-0.9772
310	5e+12	NDD Unbiased	32.556	32.369	-0.1871
311	1e+13	NDD Unbiased	33.195	33.216	0.0207
312	1e+13	NDD Unbiased	32.771	32.526	-0.2449
313	1e+13	NDD Unbiased	32.917	31.779	-1.1376
314	1e+13	NDD Unbiased	32.564	32.467	-0.0969
315	0	Correlation	32.612	33.523	0.9108
316	0	Correlation	33.904	33.111	-0.793
317	0	Correlation	33.897	33.367	-0.5298

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	32.612	33.471	33.904	0.74413	33.111	33.334	33.523	0.20769	-0.793	-0.13733	0.9108	0.9172
1e+12	31.929	32.966	33.938	0.88214	32.593	32.968	33.594	0.46559	-1.3453	0.0019	1.6648	1.2517
5e+12	31.941	32.629	33.654	0.73002	32.369	32.552	32.676	0.14008	-0.9772	-0.076425	0.5772	0.67796
1e+13	32.564	32.862	33.195	0.26547	31.779	32.497	33.216	0.58703	-1.1376	-0.36468	0.0207	0.52662

Device Test: 19.6; WDO_SLEW_RATE_RISE





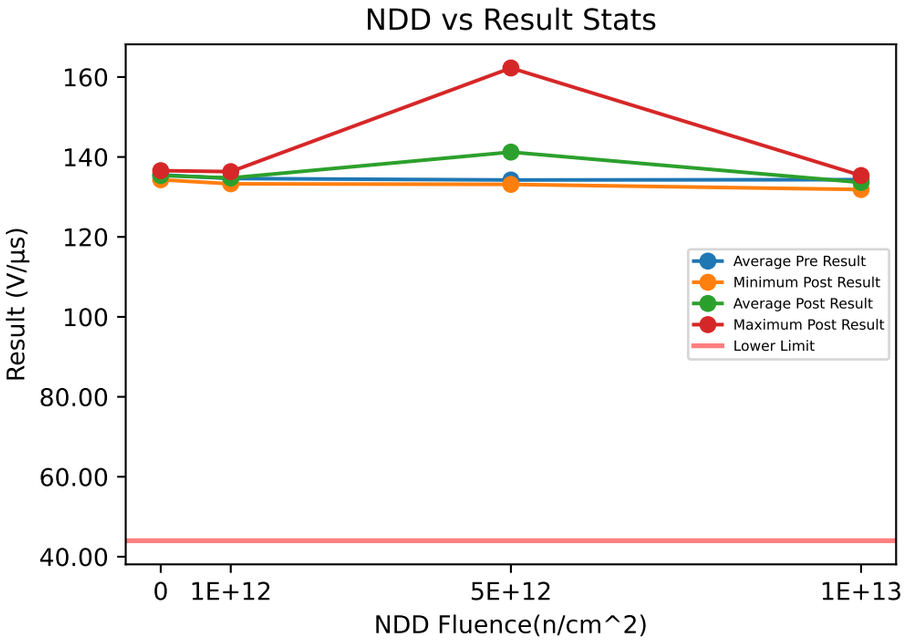
Test Results (Lower Limit = 17.0 (V/µs))

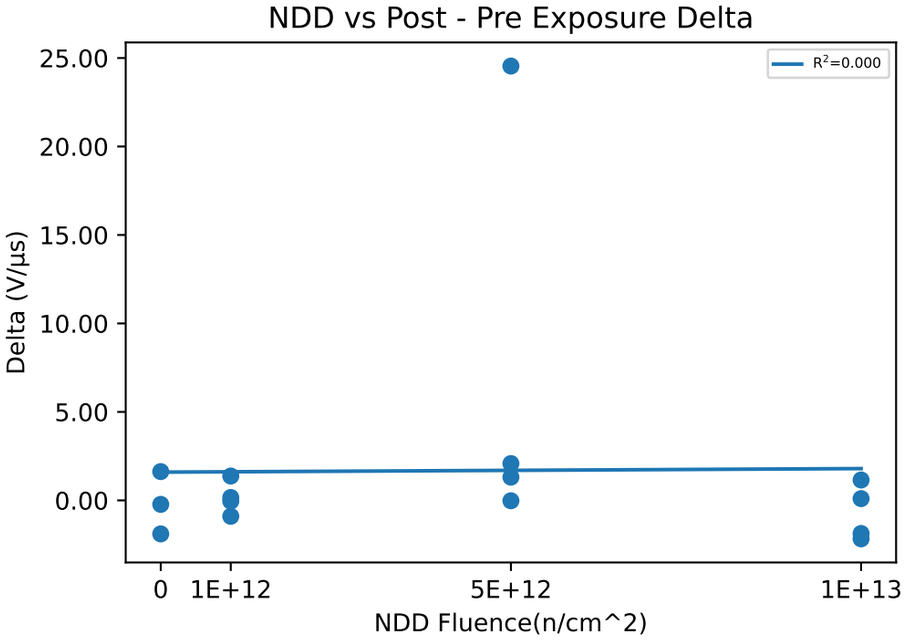
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	31.972	32.165	0.1925
304	1e+12	NDD Unbiased	32.369	32.24	-0.1284
305	1e+12	NDD Unbiased	32.209	31.939	-0.2701
306	1e+12	NDD Unbiased	32.196	32.232	0.0358
307	5e+12	NDD Unbiased	32.434	32.047	-0.3861
308	5e+12	NDD Unbiased	31.884	31.735	-0.1488
309	5e+12	NDD Unbiased	32.432	32.287	-0.1446
310	5e+12	NDD Unbiased	32.162	32.154	-0.0076
311	1e+13	NDD Unbiased	32.197	32.839	0.6422
312	1e+13	NDD Unbiased	32.336	32.041	-0.2946
313	1e+13	NDD Unbiased	31.633	31.61	-0.0224
314	1e+13	NDD Unbiased	32.262	32.038	-0.2243
315	0	Correlation	32.872	33.312	0.4397
316	0	Correlation	32.693	32.482	-0.2111
317	0	Correlation	33.308	33.966	0.6578

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	32.693	32.958	33.308	0.31649	32.482	33.253	33.966	0.74389	-0.2111	0.29547	0.6578	0.45205
1e+12	31.972	32.187	32.369	0.16314	31.939	32.144	32.24	0.14079	-0.2701	-0.04255	0.1925	0.20045
5e+12	31.884	32.228	32.434	0.26245	31.735	32.056	32.287	0.23533	-0.3861	-0.17178	-0.0076	0.15722
1e+13	31.633	32.107	32.336	0.32115	31.61	32.132	32.839	0.51308	-0.2946	0.025225	0.6422	0.42719

Device Test: 19.7; RESET_SLEW_RATE_FALL





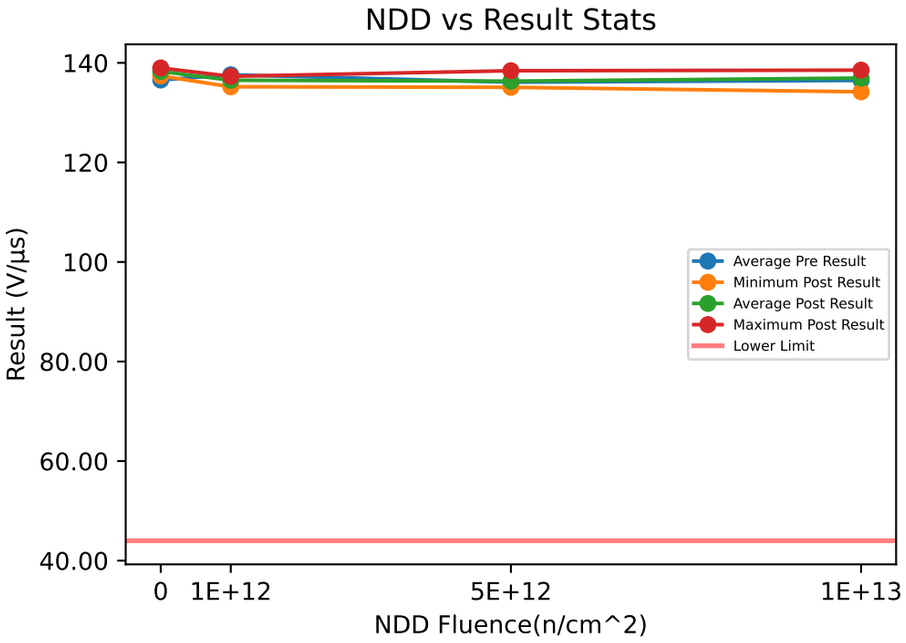
Test Results (Lower Limit = 44.0 (V/µs))

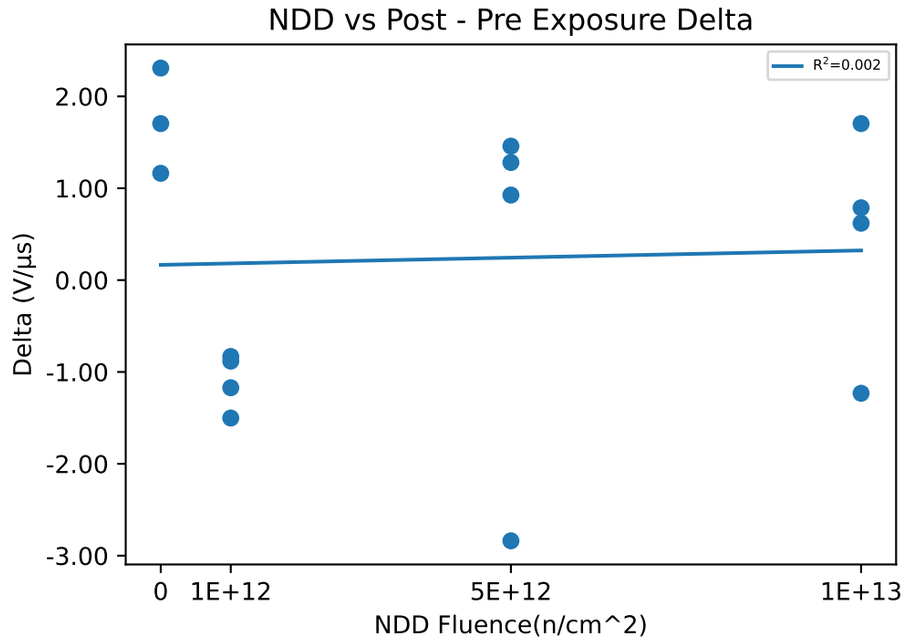
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	134.14	135.51	1.376
304	1e+12	NDD Unbiased	133.33	133.29	-0.0454
305	1e+12	NDD Unbiased	136.17	136.33	0.1629
306	1e+12	NDD Unbiased	134.78	133.88	-0.8988
307	5e+12	NDD Unbiased	131.66	133.74	2.0794
308	5e+12	NDD Unbiased	135.76	135.74	-0.0209
309	5e+12	NDD Unbiased	131.83	133.14	1.313
310	5e+12	NDD Unbiased	137.72	162.26	24.545
311	1e+13	NDD Unbiased	134.21	135.36	1.1522
312	1e+13	NDD Unbiased	137.3	135.13	-2.1723
313	1e+13	NDD Unbiased	132.06	132.16	0.0995
314	1e+13	NDD Unbiased	133.73	131.86	-1.871
315	0	Correlation	134.95	136.57	1.6267
316	0	Correlation	134.53	134.3	-0.2255
317	0	Correlation	137.09	135.2	-1.8944

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	134.53	135.52	137.09	1.3751	134.3	135.36	136.57	1.1457	-1.8944	-0.1644	1.6267	1.7613
1e+12	133.33	134.6	136.17	1.1999	133.29	134.75	136.33	1.4124	-0.8988	0.14868	1.376	0.93833
5e+12	131.66	134.24	137.72	2.9947	133.14	141.22	162.26	14.073	-0.0209	6.9792	24.545	11.743
1e+13	132.06	134.32	137.3	2.1889	131.86	133.63	135.36	1.8745	-2.1723	-0.6979	1.1522	1.5926

Device Test: 19.8; RESET_SLEW_RATE_FALL





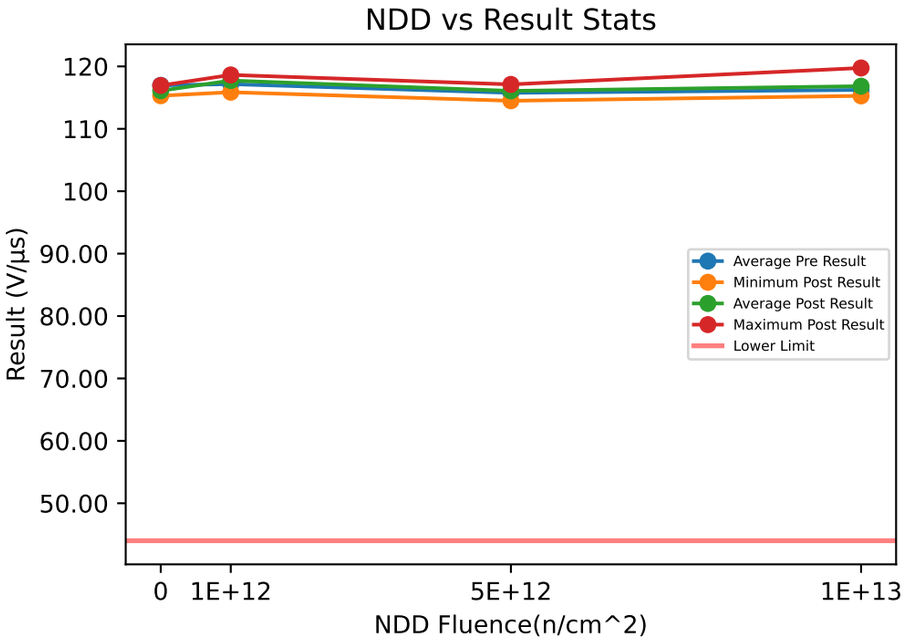
Test Results (Lower Limit = 44.0 (V/µs))

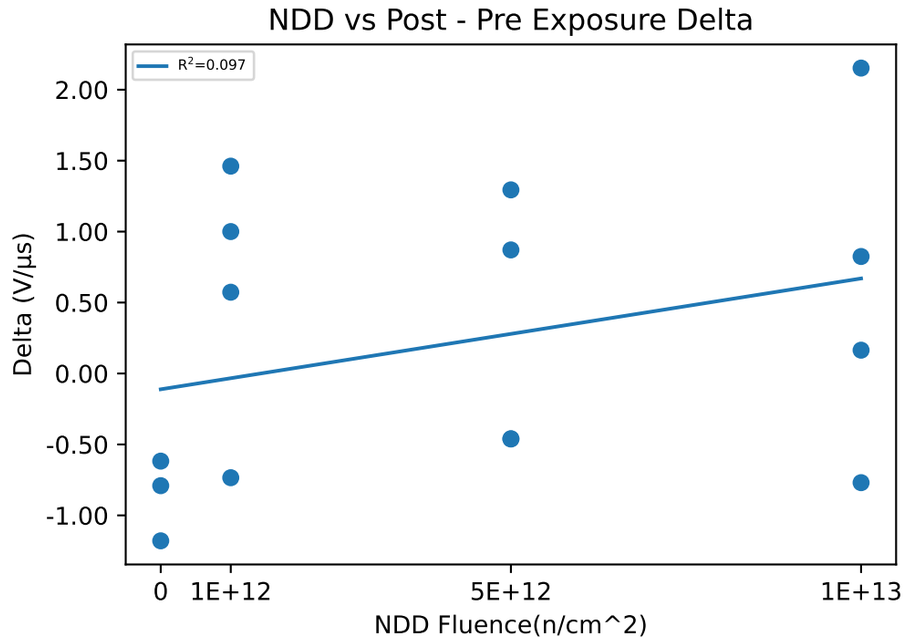
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	138.13	137.3	-0.8314
304	1e+12	NDD Unbiased	138	137.12	-0.8823
305	1e+12	NDD Unbiased	137.59	136.41	-1.1717
306	1e+12	NDD Unbiased	136.7	135.2	-1.5016
307	5e+12	NDD Unbiased	134.32	135.78	1.4581
308	5e+12	NDD Unbiased	137.93	135.09	-2.8382
309	5e+12	NDD Unbiased	134.76	136.04	1.28
310	5e+12	NDD Unbiased	137.49	138.42	0.9257
311	1e+13	NDD Unbiased	136.83	138.54	1.7038
312	1e+13	NDD Unbiased	138.85	137.61	-1.2323
313	1e+13	NDD Unbiased	133.57	134.19	0.619
314	1e+13	NDD Unbiased	136.66	137.44	0.7871
315	0	Correlation	137.33	138.49	1.1624
316	0	Correlation	136.67	138.97	2.308
317	0	Correlation	135.68	137.38	1.7037

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	135.68	136.56	137.33	0.8335	137.38	138.28	138.97	0.81831	1.1624	1.7247	2.308	0.57309
1e+12	136.7	137.6	138.13	0.6448	135.2	136.51	137.3	0.95134	-1.5016	-1.0968	-0.8314	0.30872
5e+12	134.32	136.12	137.93	1.8489	135.09	136.33	138.42	1.4491	-2.8382	0.2064	1.4581	2.0418
1e+13	133.57	136.48	138.85	2.1794	134.19	136.95	138.54	1.9022	-1.2323	0.4694	1.7038	1.2306

Device Test: 19.9; RESET_SLEW_RATE_FALL





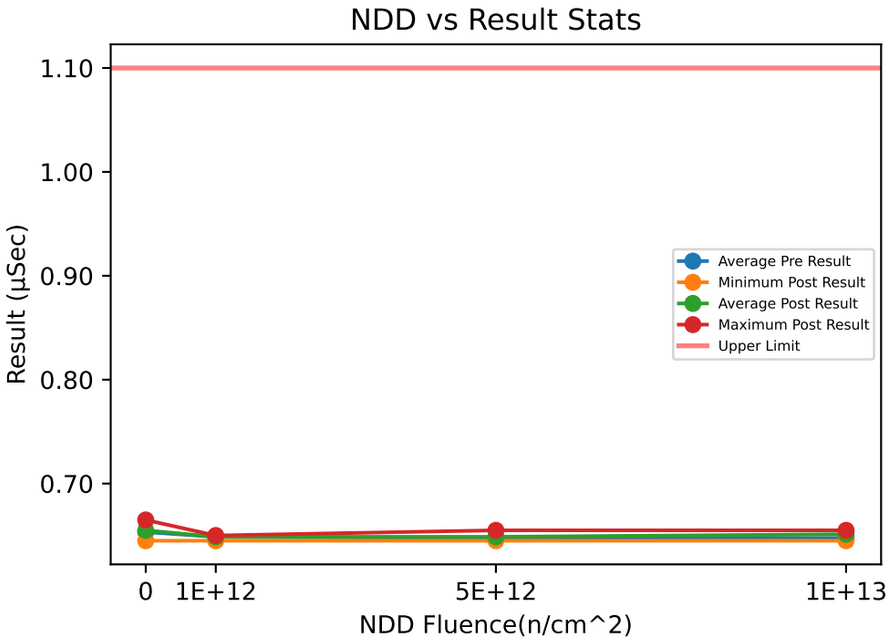
Test Results (Lower Limit = 44.0 (V/µs))

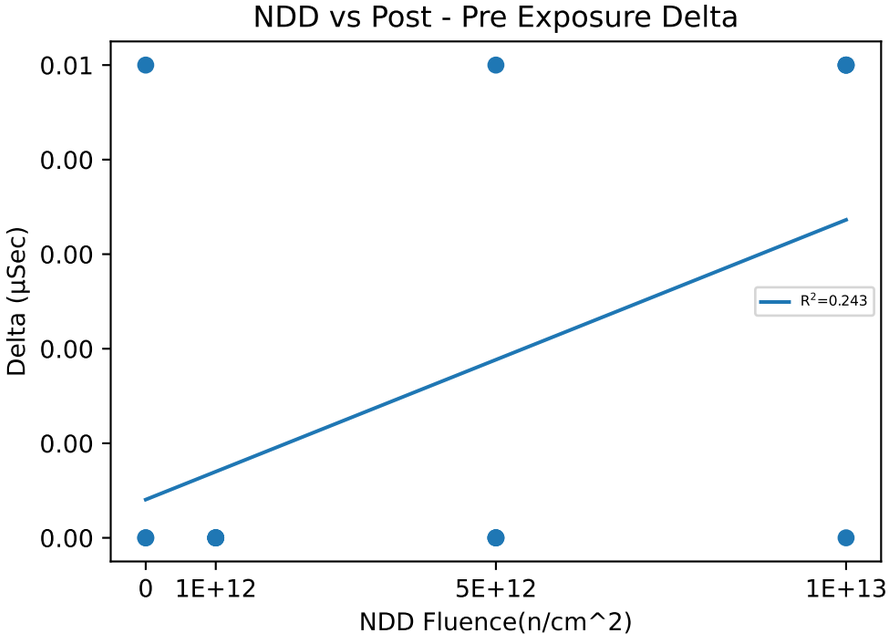
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	117.6	118.6	1.0002
304	1e+12	NDD Unbiased	117.17	118.63	1.4613
305	1e+12	NDD Unbiased	117.26	117.83	0.5728
306	1e+12	NDD Unbiased	116.6	115.87	-0.7345
307	5e+12	NDD Unbiased	114.58	115.88	1.2941
308	5e+12	NDD Unbiased	117.27	116.81	-0.4599
309	5e+12	NDD Unbiased	114.95	114.49	-0.4616
310	5e+12	NDD Unbiased	116.25	117.12	0.8709
311	1e+13	NDD Unbiased	117.6	119.75	2.1525
312	1e+13	NDD Unbiased	116.29	115.52	-0.7694
313	1e+13	NDD Unbiased	114.45	115.28	0.8245
314	1e+13	NDD Unbiased	116.6	116.77	0.1643
315	0	Correlation	116.09	115.3	-0.7907
316	0	Correlation	117.56	116.94	-0.6176
317	0	Correlation	117.25	116.07	-1.1793

Test Statistics (V/µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	116.09	116.97	117.56	0.77231	115.3	116.1	116.94	0.82036	-1.1793	-0.86253	-0.6176	0.28766
1e+12	116.6	117.16	117.6	0.41582	115.87	117.73	118.63	1.2992	-0.7345	0.57495	1.4613	0.94536
5e+12	114.58	115.76	117.27	1.233	114.49	116.08	117.12	1.1792	-0.4616	0.31087	1.2941	0.90759
1e+13	114.45	116.24	117.6	1.3119	115.28	116.83	119.75	2.0537	-0.7694	0.59297	2.1525	1.2282

Device Test: 25.1; SR_UVLO_HT





Test Results (Upper Limit = 1.1 (µSec))

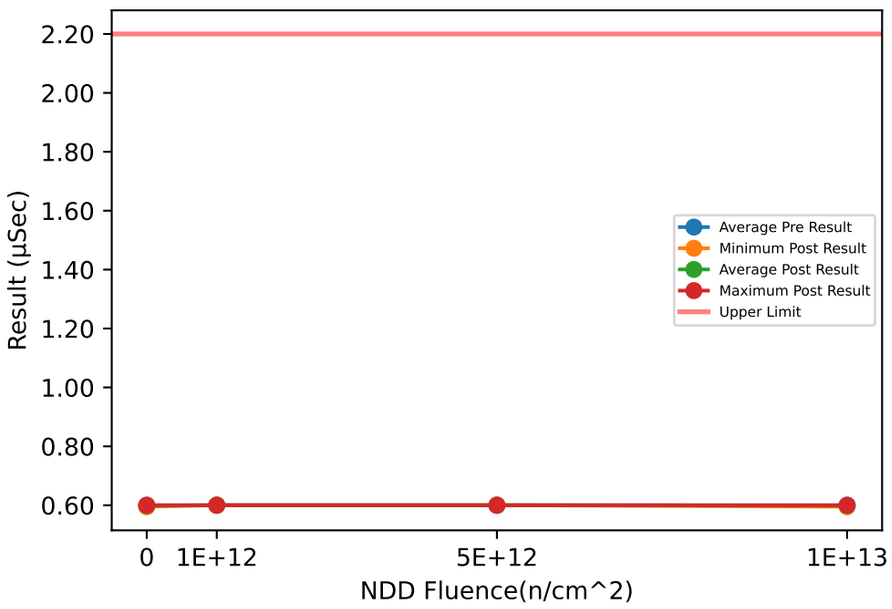
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.65	0.65	0
304	1e+12	NDD Unbiased	0.65	0.65	0
305	1e+12	NDD Unbiased	0.645	0.645	0
306	1e+12	NDD Unbiased	0.65	0.65	0
307	5e+12	NDD Unbiased	0.655	0.655	0
308	5e+12	NDD Unbiased	0.645	0.645	0
309	5e+12	NDD Unbiased	0.645	0.645	0
310	5e+12	NDD Unbiased	0.645	0.65	0.005
311	1e+13	NDD Unbiased	0.65	0.655	0.005
312	1e+13	NDD Unbiased	0.645	0.65	0.005
313	1e+13	NDD Unbiased	0.645	0.645	0
314	1e+13	NDD Unbiased	0.65	0.655	0.005
315	0	Correlation	0.65	0.655	0.005
316	0	Correlation	0.645	0.645	0
317	0	Correlation	0.665	0.665	0

Test Statistics (µSec)

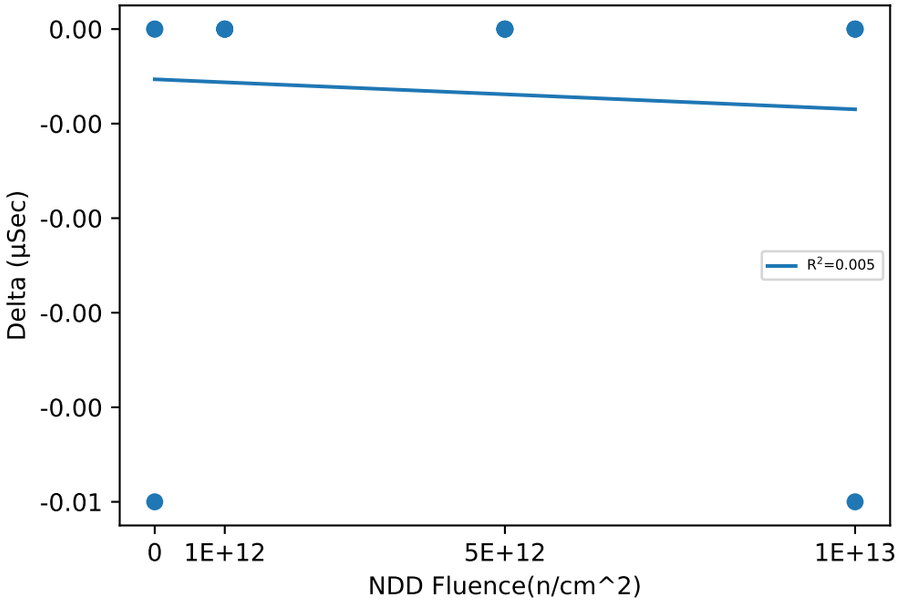
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.645	0.65333	0.665	0.010408	0.645	0.655	0.665	0.01	0	0.0016667	0.005	0.0028868
1e+12	0.645	0.64875	0.65	0.0025	0.645	0.64875	0.65	0.0025	0	0	0	0
5e+12	0.645	0.6475	0.655	0.005	0.645	0.64875	0.655	0.0047871	0	0.00125	0.005	0.0025
1e+13	0.645	0.6475	0.65	0.0028868	0.645	0.65125	0.655	0.0047871	0	0.00375	0.005	0.0025

Device Test: 25.10; SENSE_F_HT_PP

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



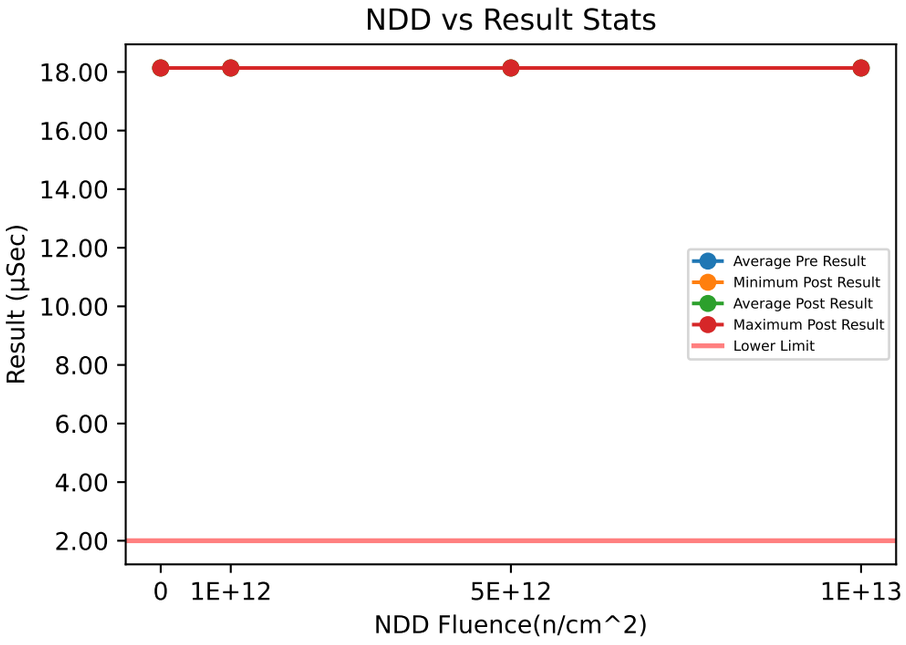
Test Results (Upper Limit = 2.2 (µSec))

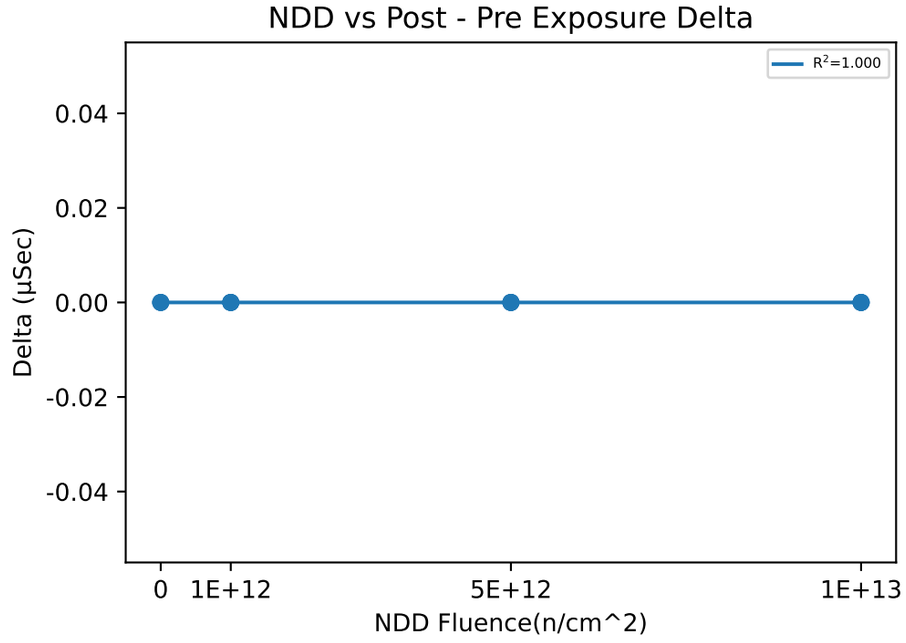
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6	0.6	0
304	1e+12	NDD Unbiased	0.6	0.6	0
305	1e+12	NDD Unbiased	0.6	0.6	0
306	1e+12	NDD Unbiased	0.6	0.6	0
307	5e+12	NDD Unbiased	0.6	0.6	0
308	5e+12	NDD Unbiased	0.6	0.6	0
309	5e+12	NDD Unbiased	0.6	0.6	0
310	5e+12	NDD Unbiased	0.6	0.6	0
311	1e+13	NDD Unbiased	0.6	0.6	0
312	1e+13	NDD Unbiased	0.6	0.6	0
313	1e+13	NDD Unbiased	0.6	0.595	-0.005
314	1e+13	NDD Unbiased	0.6	0.6	0
315	0	Correlation	0.6	0.6	0
316	0	Correlation	0.6	0.6	0
317	0	Correlation	0.6	0.595	-0.005

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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	0.595	0.59833	0.6	0.0028868	-0.005	-0.0016667	0	0.0028868
1e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
5e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+13	0.6	0.6	0.6	0	0.595	0.59875	0.6	0.0025	-0.005	-0.00125	0	0.0025

Device Test: 25.11; WDI_HT





Test Results (Lower Limit = 2.0 (µSec))

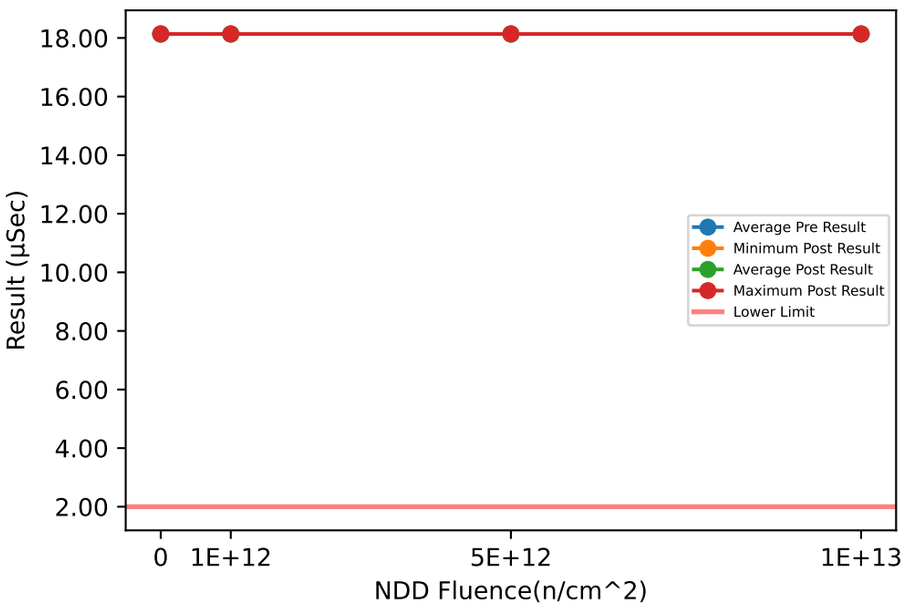
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	18.136	18.136	0
304	1e+12	NDD Unbiased	18.136	18.136	0
305	1e+12	NDD Unbiased	18.136	18.136	0
306	1e+12	NDD Unbiased	18.136	18.136	0
307	5e+12	NDD Unbiased	18.136	18.136	0
308	5e+12	NDD Unbiased	18.136	18.136	0
309	5e+12	NDD Unbiased	18.136	18.136	0
310	5e+12	NDD Unbiased	18.136	18.136	0
311	1e+13	NDD Unbiased	18.136	18.136	0
312	1e+13	NDD Unbiased	18.136	18.136	0
313	1e+13	NDD Unbiased	18.136	18.136	0
314	1e+13	NDD Unbiased	18.136	18.136	0
315	0	Correlation	18.136	18.136	0
316	0	Correlation	18.136	18.136	0
317	0	Correlation	18.136	18.136	0

Test Statistics (µSec)

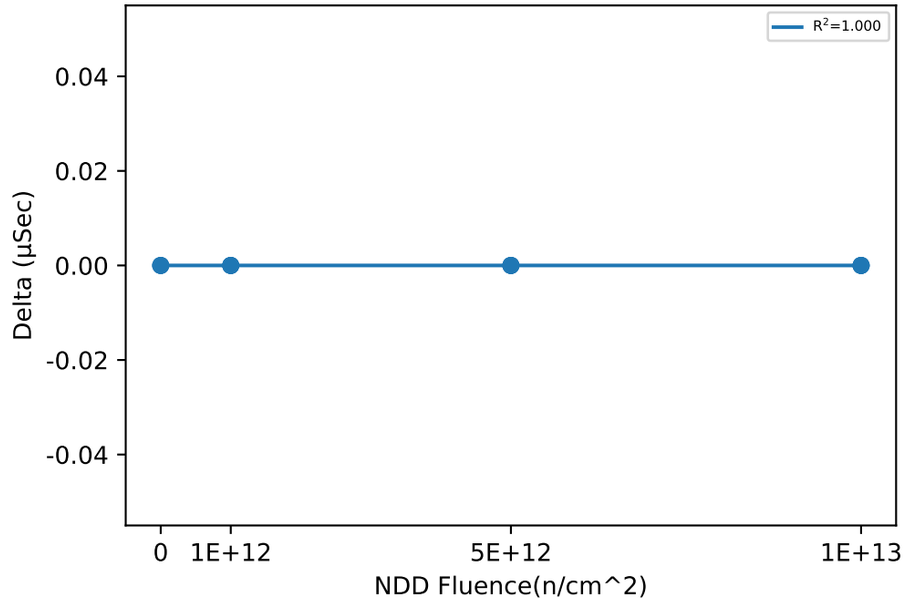
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.136	18.136	18.136	0	18.136	18.136	18.136	0	0	0	0	0
1e+12	18.136	18.136	18.136	0	18.136	18.136	18.136	0	0	0	0	0
5e+12	18.136	18.136	18.136	0	18.136	18.136	18.136	0	0	0	0	0
1e+13	18.136	18.136	18.136	0	18.136	18.136	18.136	0	0	0	0	0

Device Test: 25.12; WDI_HT

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 2.0 (µSec))

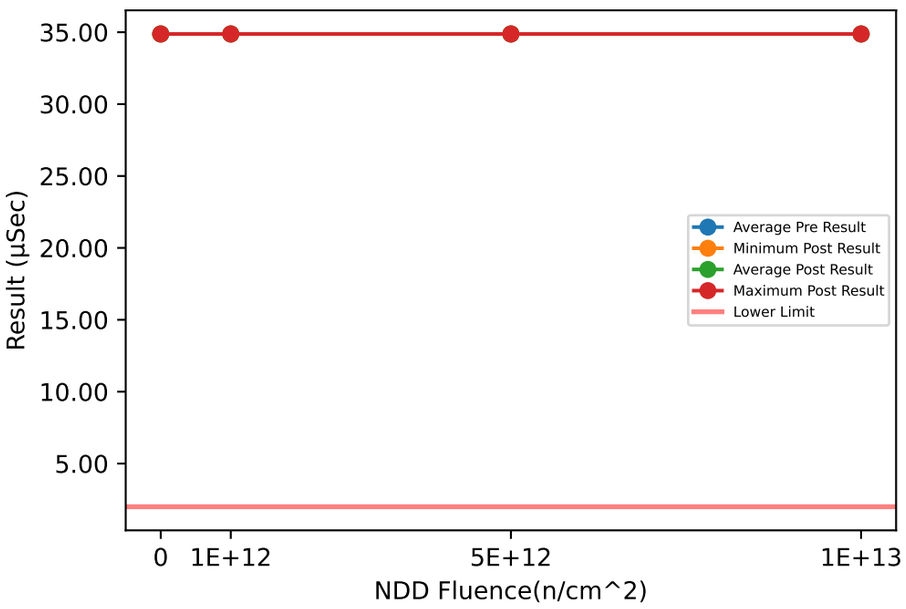
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	18.136	18.136	0
304	1e+12	NDD Unbiased	18.136	18.136	0
305	1e+12	NDD Unbiased	18.136	18.136	0
306	1e+12	NDD Unbiased	18.136	18.136	0
307	5e+12	NDD Unbiased	18.136	18.136	0
308	5e+12	NDD Unbiased	18.136	18.136	0
309	5e+12	NDD Unbiased	18.136	18.136	0
310	5e+12	NDD Unbiased	18.136	18.136	0
311	1e+13	NDD Unbiased	18.136	18.136	0
312	1e+13	NDD Unbiased	18.136	18.136	0
313	1e+13	NDD Unbiased	18.136	18.136	0
314	1e+13	NDD Unbiased	18.136	18.136	0
315	0	Correlation	18.136	18.136	0
316	0	Correlation	18.136	18.136	0
317	0	Correlation	18.136	18.136	0

Test Statistics (µSec)

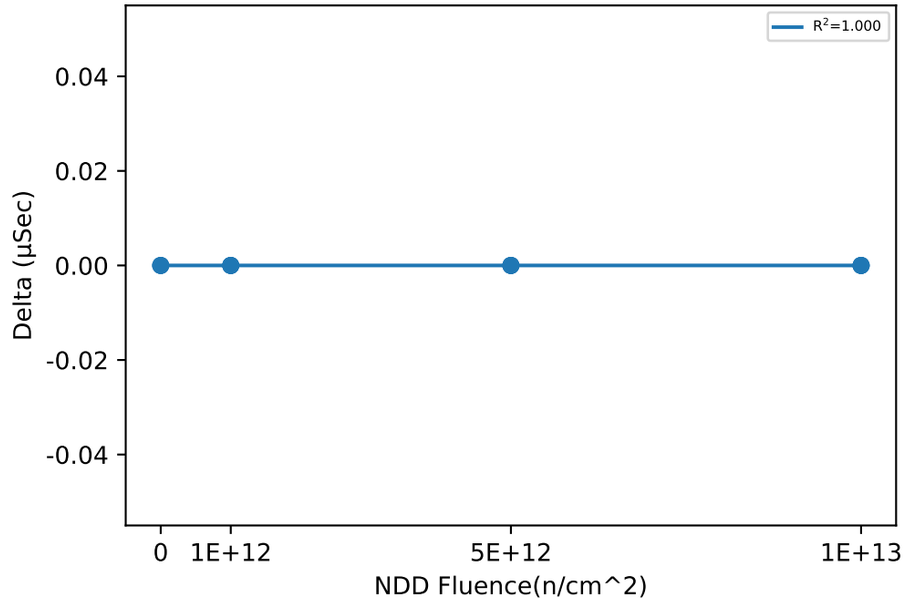
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.136	18.136	18.136	0	18.136	18.136	18.136	0	0	0	0	0
1e+12	18.136	18.136	18.136	0	18.136	18.136	18.136	0	0	0	0	0
5e+12	18.136	18.136	18.136	0	18.136	18.136	18.136	0	0	0	0	0
1e+13	18.136	18.136	18.136	0	18.136	18.136	18.136	0	0	0	0	0

Device Test: 25.13; WDI_HT

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 2.0 (µSec))

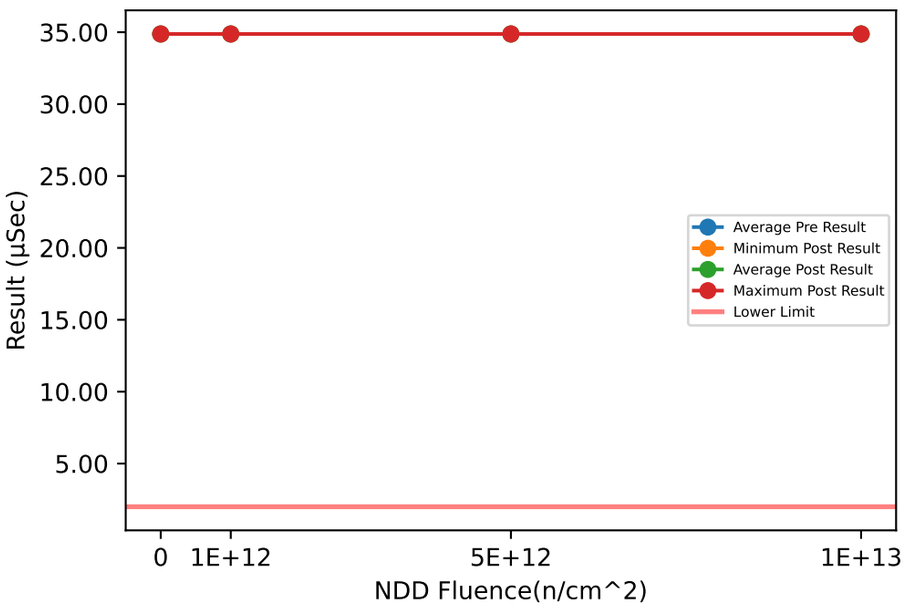
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	34.877	34.877	0
304	1e+12	NDD Unbiased	34.877	34.877	0
305	1e+12	NDD Unbiased	34.877	34.877	0
306	1e+12	NDD Unbiased	34.877	34.877	0
307	5e+12	NDD Unbiased	34.877	34.877	0
308	5e+12	NDD Unbiased	34.877	34.877	0
309	5e+12	NDD Unbiased	34.877	34.877	0
310	5e+12	NDD Unbiased	34.877	34.877	0
311	1e+13	NDD Unbiased	34.877	34.877	0
312	1e+13	NDD Unbiased	34.877	34.877	0
313	1e+13	NDD Unbiased	34.877	34.877	0
314	1e+13	NDD Unbiased	34.877	34.877	0
315	0	Correlation	34.877	34.877	0
316	0	Correlation	34.877	34.877	0
317	0	Correlation	34.877	34.877	0

Test Statistics (µSec)

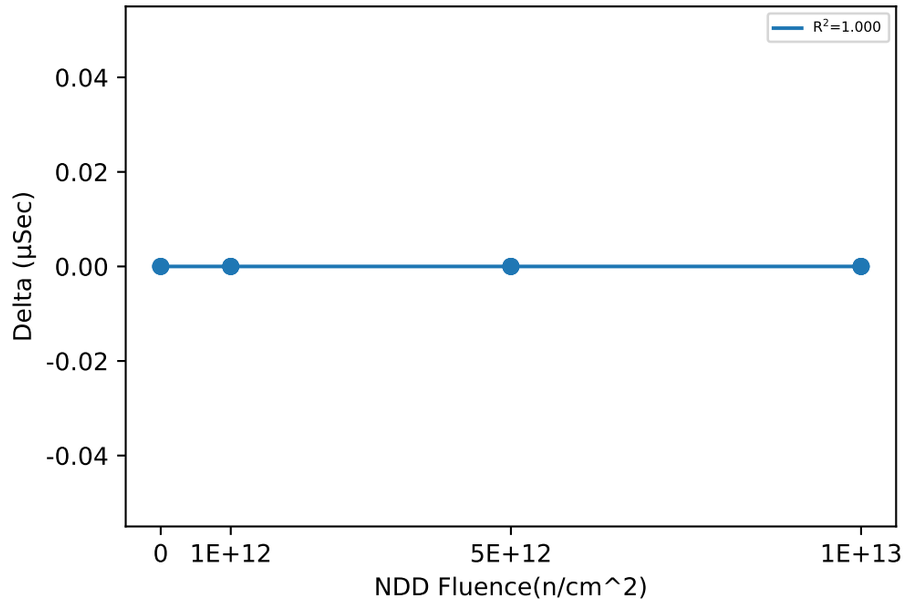
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	34.877	34.877	34.877	0	34.877	34.877	34.877	0	0	0	0	0
1e+12	34.877	34.877	34.877	0	34.877	34.877	34.877	0	0	0	0	0
5e+12	34.877	34.877	34.877	0	34.877	34.877	34.877	0	0	0	0	0
1e+13	34.877	34.877	34.877	0	34.877	34.877	34.877	0	0	0	0	0

Device Test: 25.14; WDI_HT

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



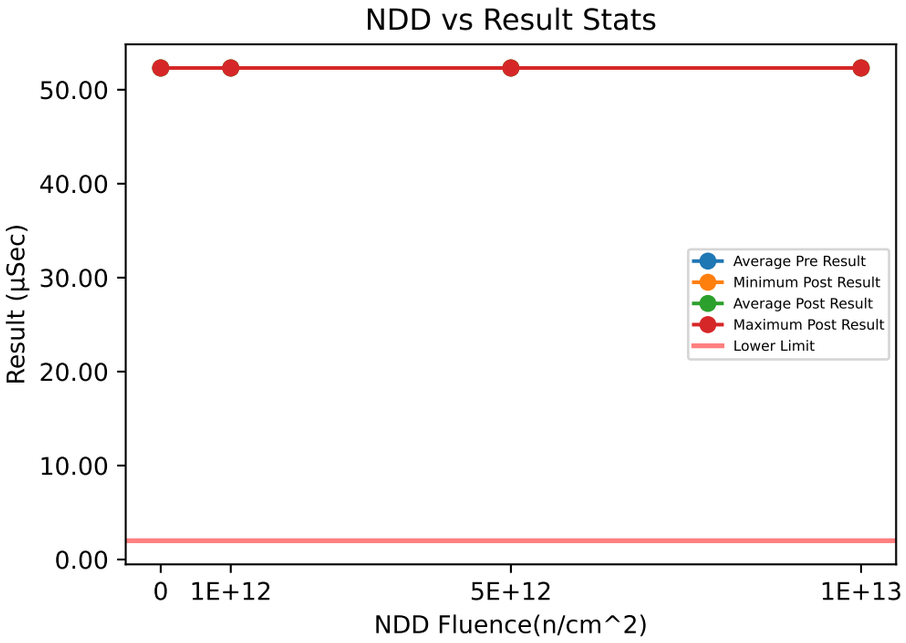
Test Results (Lower Limit = 2.0 (µSec))

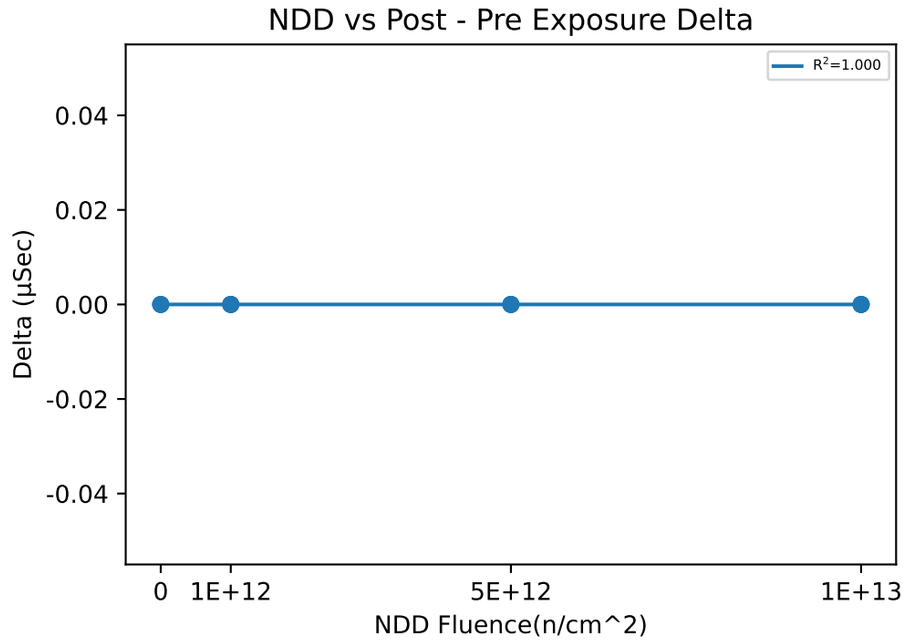
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	34.877	34.877	0
304	1e+12	NDD Unbiased	34.877	34.877	0
305	1e+12	NDD Unbiased	34.877	34.877	0
306	1e+12	NDD Unbiased	34.877	34.877	0
307	5e+12	NDD Unbiased	34.877	34.877	0
308	5e+12	NDD Unbiased	34.877	34.877	0
309	5e+12	NDD Unbiased	34.877	34.877	0
310	5e+12	NDD Unbiased	34.877	34.877	0
311	1e+13	NDD Unbiased	34.877	34.877	0
312	1e+13	NDD Unbiased	34.877	34.877	0
313	1e+13	NDD Unbiased	34.877	34.877	0
314	1e+13	NDD Unbiased	34.877	34.877	0
315	0	Correlation	34.877	34.877	0
316	0	Correlation	34.877	34.877	0
317	0	Correlation	34.877	34.877	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	34.877	34.877	34.877	0	34.877	34.877	34.877	0	0	0	0	0
1e+12	34.877	34.877	34.877	0	34.877	34.877	34.877	0	0	0	0	0
5e+12	34.877	34.877	34.877	0	34.877	34.877	34.877	0	0	0	0	0
1e+13	34.877	34.877	34.877	0	34.877	34.877	34.877	0	0	0	0	0

Device Test: 25.15; WDI_HT





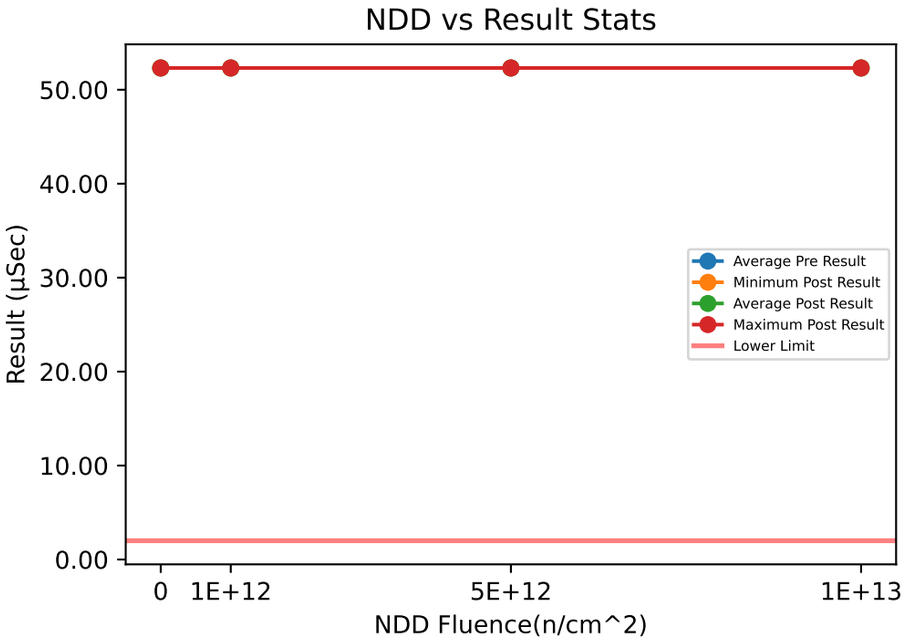
Test Results (Lower Limit = 2.0 (µSec))

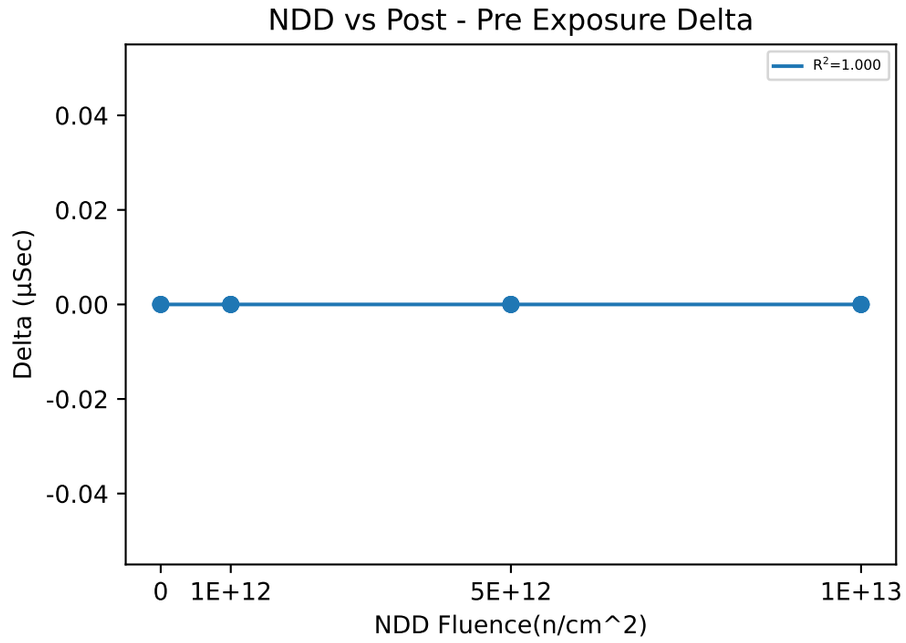
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	52.316	52.316	0
304	1e+12	NDD Unbiased	52.316	52.316	0
305	1e+12	NDD Unbiased	52.316	52.316	0
306	1e+12	NDD Unbiased	52.316	52.316	0
307	5e+12	NDD Unbiased	52.316	52.316	0
308	5e+12	NDD Unbiased	52.316	52.316	0
309	5e+12	NDD Unbiased	52.316	52.316	0
310	5e+12	NDD Unbiased	52.316	52.316	0
311	1e+13	NDD Unbiased	52.316	52.316	0
312	1e+13	NDD Unbiased	52.316	52.316	0
313	1e+13	NDD Unbiased	52.316	52.316	0
314	1e+13	NDD Unbiased	52.316	52.316	0
315	0	Correlation	52.316	52.316	0
316	0	Correlation	52.316	52.316	0
317	0	Correlation	52.316	52.316	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	52.316	52.316	52.316	0	52.316	52.316	52.316	0	0	0	0	0
1e+12	52.316	52.316	52.316	0	52.316	52.316	52.316	0	0	0	0	0
5e+12	52.316	52.316	52.316	0	52.316	52.316	52.316	0	0	0	0	0
1e+13	52.316	52.316	52.316	0	52.316	52.316	52.316	0	0	0	0	0

Device Test: 25.16; WDI_HT





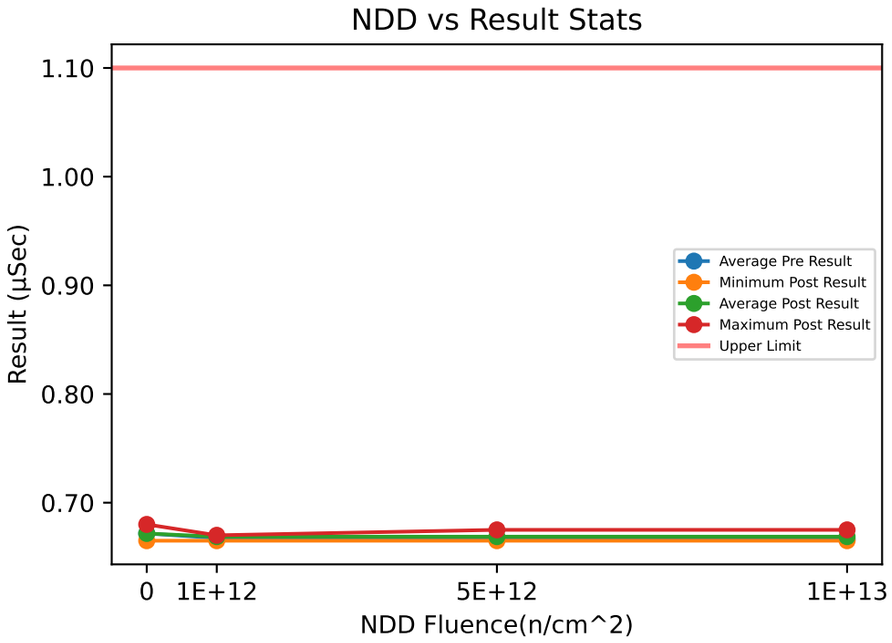
Test Results (Lower Limit = 2.0 (µSec))

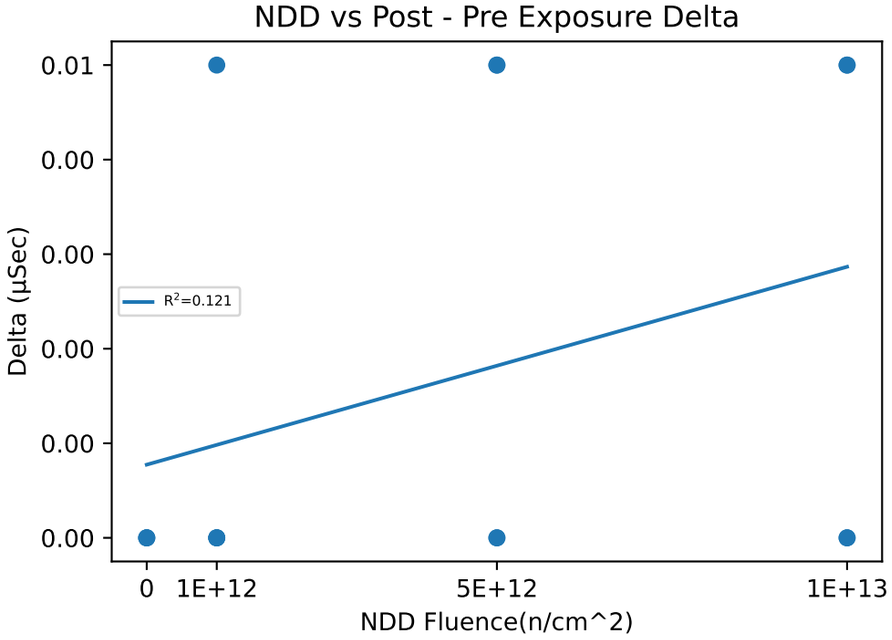
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	52.316	52.316	0
304	1e+12	NDD Unbiased	52.316	52.316	0
305	1e+12	NDD Unbiased	52.316	52.316	0
306	1e+12	NDD Unbiased	52.316	52.316	0
307	5e+12	NDD Unbiased	52.316	52.316	0
308	5e+12	NDD Unbiased	52.316	52.316	0
309	5e+12	NDD Unbiased	52.316	52.316	0
310	5e+12	NDD Unbiased	52.316	52.316	0
311	1e+13	NDD Unbiased	52.316	52.316	0
312	1e+13	NDD Unbiased	52.316	52.316	0
313	1e+13	NDD Unbiased	52.316	52.316	0
314	1e+13	NDD Unbiased	52.316	52.316	0
315	0	Correlation	52.316	52.316	0
316	0	Correlation	52.316	52.316	0
317	0	Correlation	52.316	52.316	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	52.316	52.316	52.316	0	52.316	52.316	52.316	0	0	0	0	0
1e+12	52.316	52.316	52.316	0	52.316	52.316	52.316	0	0	0	0	0
5e+12	52.316	52.316	52.316	0	52.316	52.316	52.316	0	0	0	0	0
1e+13	52.316	52.316	52.316	0	52.316	52.316	52.316	0	0	0	0	0

Device Test: 25.2; SR_UVLO_HT





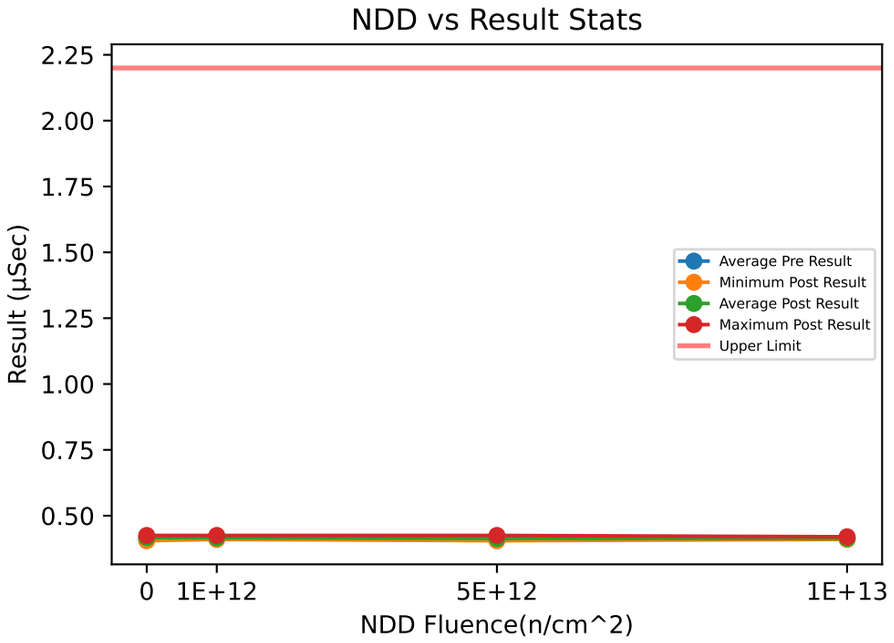
Test Results (Upper Limit = 1.1 (µSec))

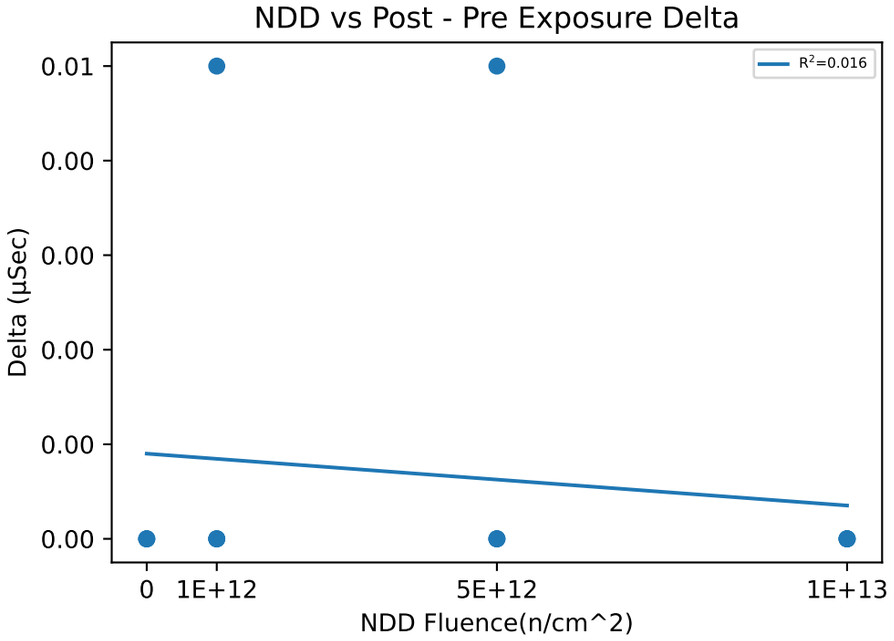
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.67	0.67	0
304	1e+12	NDD Unbiased	0.67	0.67	0
305	1e+12	NDD Unbiased	0.665	0.665	0
306	1e+12	NDD Unbiased	0.665	0.67	0.005
307	5e+12	NDD Unbiased	0.67	0.675	0.005
308	5e+12	NDD Unbiased	0.665	0.665	0
309	5e+12	NDD Unbiased	0.665	0.665	0
310	5e+12	NDD Unbiased	0.665	0.67	0.005
311	1e+13	NDD Unbiased	0.67	0.675	0.005
312	1e+13	NDD Unbiased	0.665	0.665	0
313	1e+13	NDD Unbiased	0.66	0.665	0.005
314	1e+13	NDD Unbiased	0.67	0.67	0
315	0	Correlation	0.67	0.67	0
316	0	Correlation	0.665	0.665	0
317	0	Correlation	0.68	0.68	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.665	0.67167	0.68	0.0076376	0.665	0.67167	0.68	0.0076376	0	0	0	0
1e+12	0.665	0.6675	0.67	0.0028868	0.665	0.66875	0.67	0.0025	0	0.00125	0.005	0.0025
5e+12	0.665	0.66625	0.67	0.0025	0.665	0.66875	0.675	0.0047871	0	0.0025	0.005	0.0028868
1e+13	0.66	0.66625	0.67	0.0047871	0.665	0.66875	0.675	0.0047871	0	0.0025	0.005	0.0028868

Device Test: 25.3; SENSE_F_HT_PP





Test Results (Upper Limit = 2.2 (µSec))

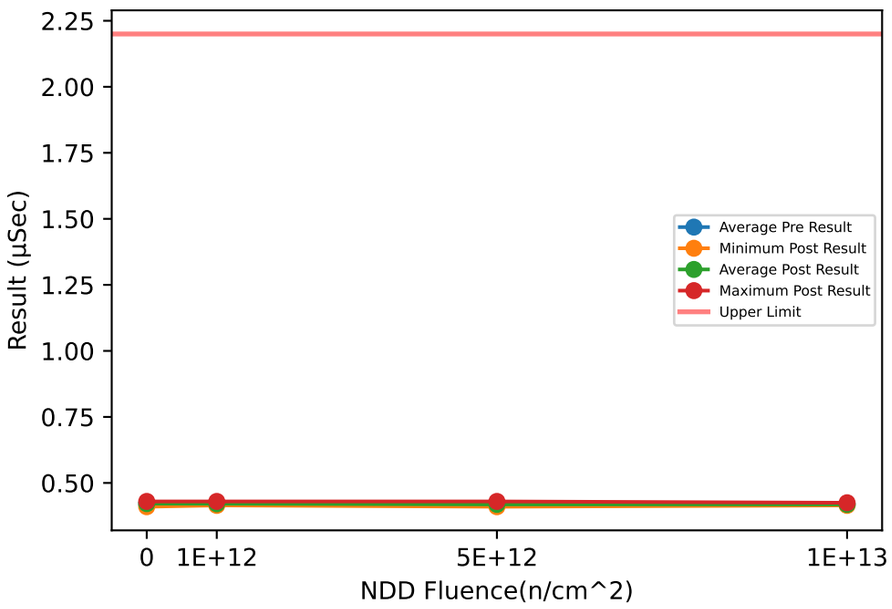
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.415	0.415	0
304	1e+12	NDD Unbiased	0.41	0.41	0
305	1e+12	NDD Unbiased	0.41	0.415	0.005
306	1e+12	NDD Unbiased	0.425	0.425	0
307	5e+12	NDD Unbiased	0.42	0.425	0.005
308	5e+12	NDD Unbiased	0.405	0.405	0
309	5e+12	NDD Unbiased	0.415	0.415	0
310	5e+12	NDD Unbiased	0.41	0.41	0
311	1e+13	NDD Unbiased	0.41	0.41	0
312	1e+13	NDD Unbiased	0.42	0.42	0
313	1e+13	NDD Unbiased	0.415	0.415	0
314	1e+13	NDD Unbiased	0.41	0.41	0
315	0	Correlation	0.42	0.42	0
316	0	Correlation	0.405	0.405	0
317	0	Correlation	0.425	0.425	0

Test Statistics (µSec)

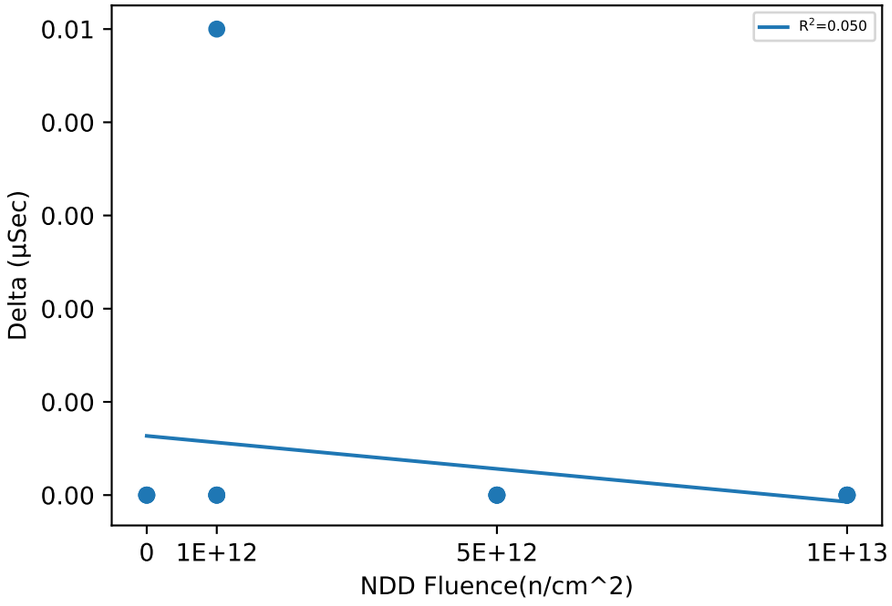
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.405	0.41667	0.425	0.010408	0.405	0.41667	0.425	0.010408	0	0	0	0
1e+12	0.41	0.415	0.425	0.0070711	0.41	0.41625	0.425	0.0062915	0	0.00125	0.005	0.0025
5e+12	0.405	0.4125	0.42	0.006455	0.405	0.41375	0.425	0.0085391	0	0.00125	0.005	0.0025
1e+13	0.41	0.41375	0.42	0.0047871	0.41	0.41375	0.42	0.0047871	0	0	0	0

Device Test: 25.4; SENSE_F_HT_PP

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



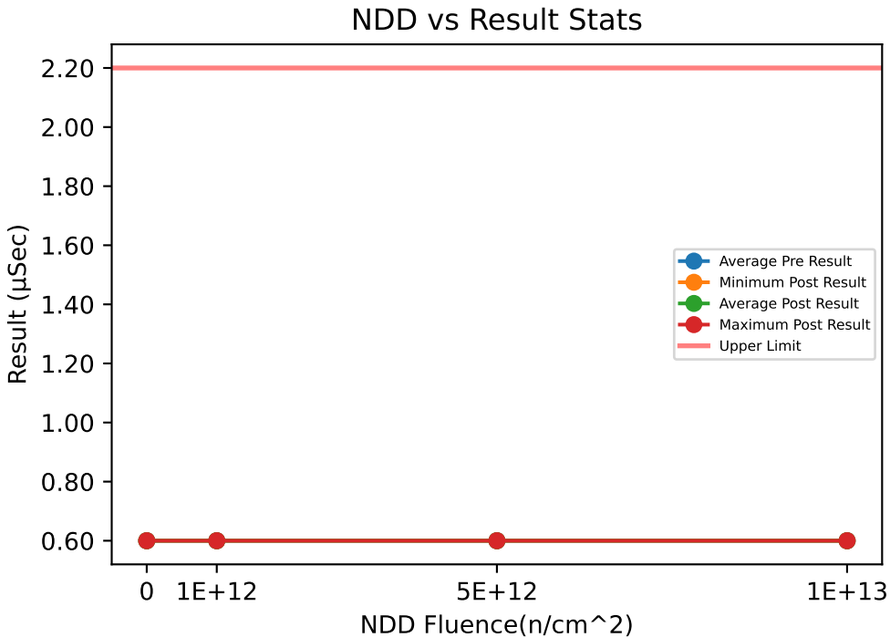
Test Results (Upper Limit = 2.2 (µSec))

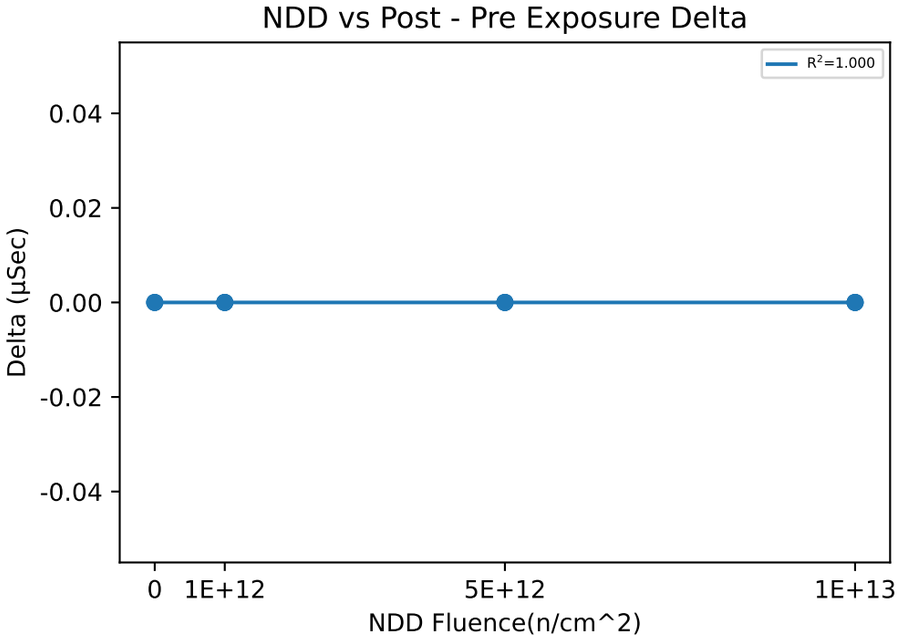
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.42	0.42	0
304	1e+12	NDD Unbiased	0.415	0.415	0
305	1e+12	NDD Unbiased	0.415	0.42	0.005
306	1e+12	NDD Unbiased	0.43	0.43	0
307	5e+12	NDD Unbiased	0.43	0.43	0
308	5e+12	NDD Unbiased	0.41	0.41	0
309	5e+12	NDD Unbiased	0.42	0.42	0
310	5e+12	NDD Unbiased	0.415	0.415	0
311	1e+13	NDD Unbiased	0.415	0.415	0
312	1e+13	NDD Unbiased	0.425	0.425	0
313	1e+13	NDD Unbiased	0.42	0.42	0
314	1e+13	NDD Unbiased	0.415	0.415	0
315	0	Correlation	0.425	0.425	0
316	0	Correlation	0.41	0.41	0
317	0	Correlation	0.43	0.43	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.41	0.42167	0.43	0.010408	0.41	0.42167	0.43	0.010408	0	0	0	0
1e+12	0.415	0.42	0.43	0.0070711	0.415	0.42125	0.43	0.0062915	0	0.00125	0.005	0.0025
5e+12	0.41	0.41875	0.43	0.0085391	0.41	0.41875	0.43	0.0085391	0	0	0	0
1e+13	0.415	0.41875	0.425	0.0047871	0.415	0.41875	0.425	0.0047871	0	0	0	0

Device Test: 25.5; SENSE_F_HT_PP





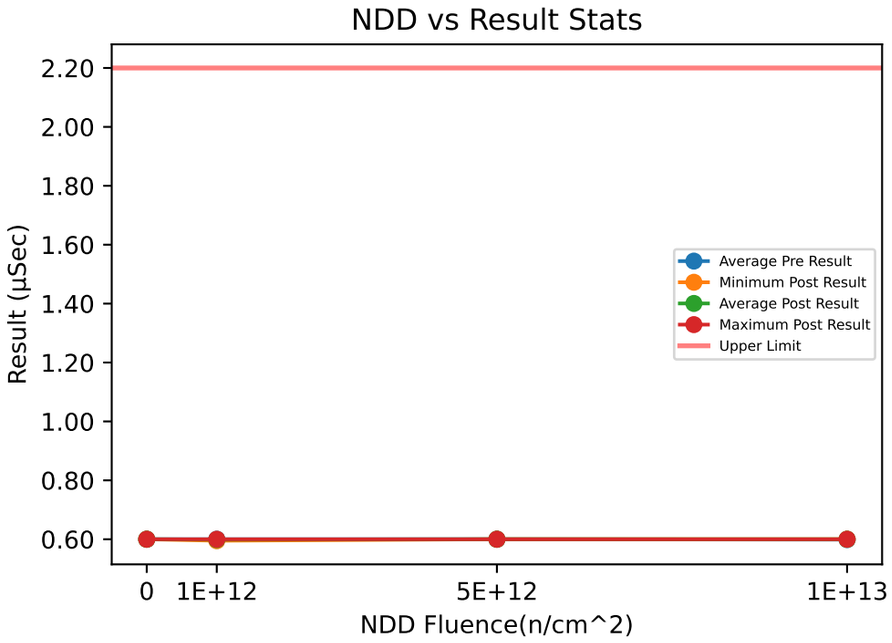
Test Results (Upper Limit = 2.2 (µSec))

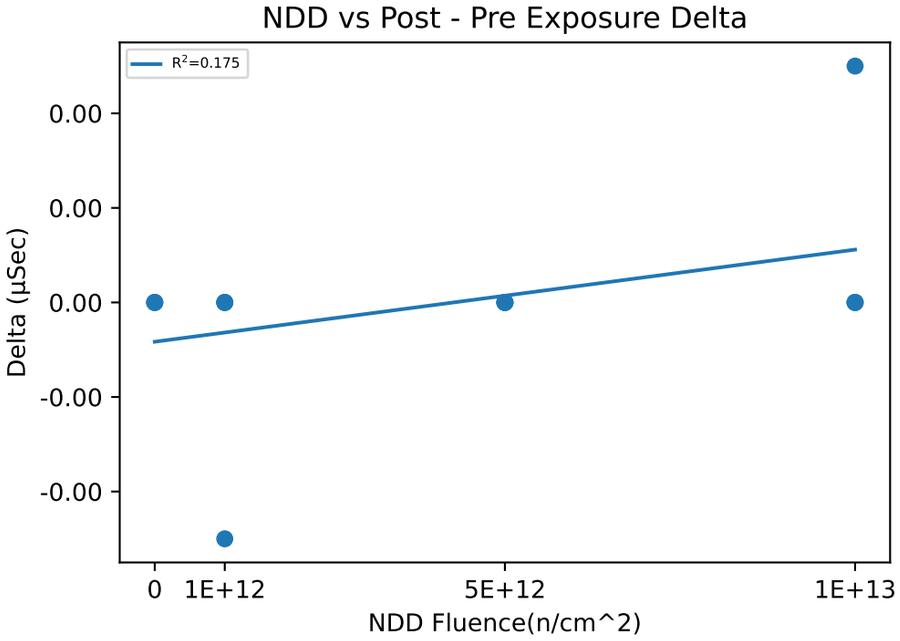
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6	0.6	0
304	1e+12	NDD Unbiased	0.6	0.6	0
305	1e+12	NDD Unbiased	0.6	0.6	0
306	1e+12	NDD Unbiased	0.6	0.6	0
307	5e+12	NDD Unbiased	0.6	0.6	0
308	5e+12	NDD Unbiased	0.6	0.6	0
309	5e+12	NDD Unbiased	0.6	0.6	0
310	5e+12	NDD Unbiased	0.6	0.6	0
311	1e+13	NDD Unbiased	0.6	0.6	0
312	1e+13	NDD Unbiased	0.6	0.6	0
313	1e+13	NDD Unbiased	0.6	0.6	0
314	1e+13	NDD Unbiased	0.6	0.6	0
315	0	Correlation	0.6	0.6	0
316	0	Correlation	0.6	0.6	0
317	0	Correlation	0.6	0.6	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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
1e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
5e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+13	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

Device Test: 25.6; SENSE_F_HT_PP





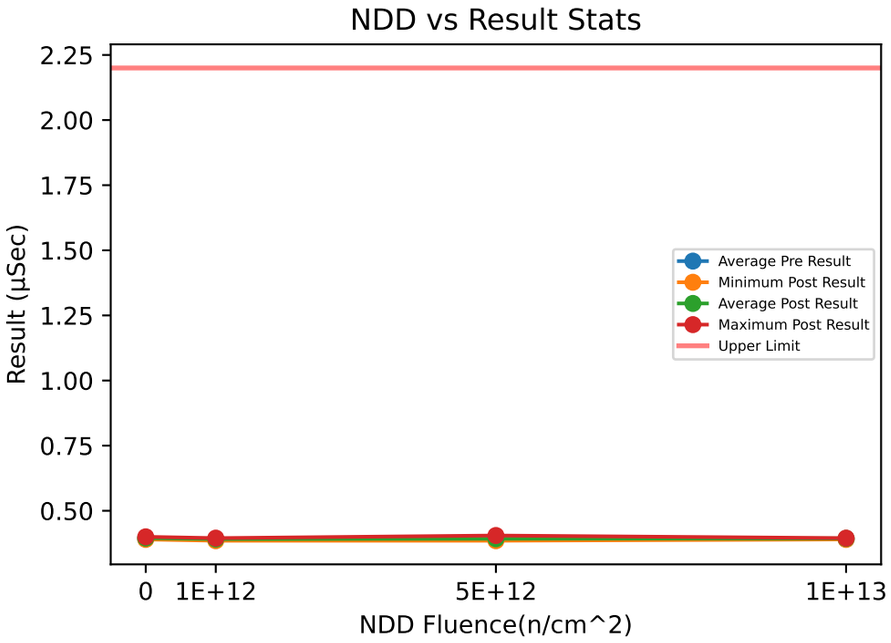
Test Results (Upper Limit = 2.2 (µSec))

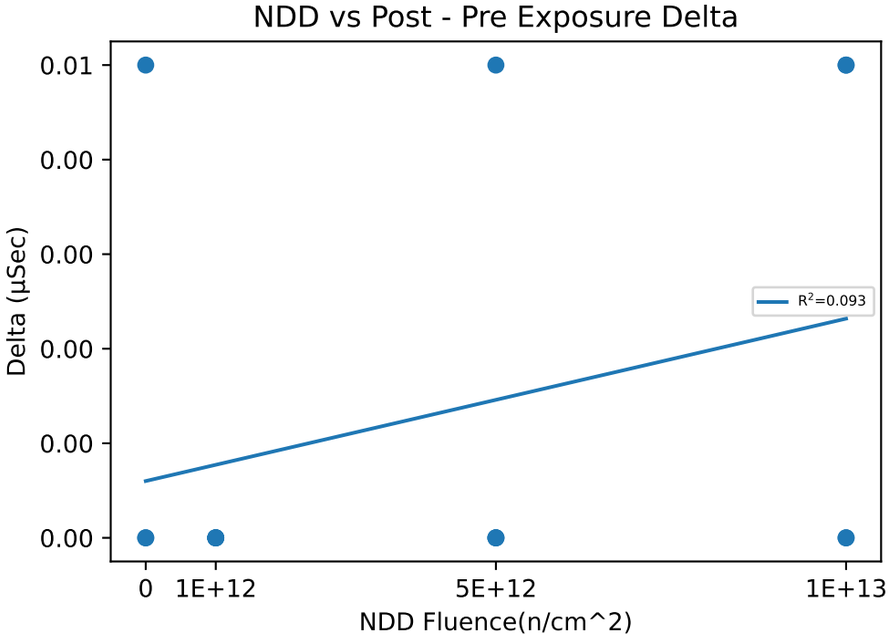
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6	0.6	0
304	1e+12	NDD Unbiased	0.6	0.595	-0.005
305	1e+12	NDD Unbiased	0.6	0.6	0
306	1e+12	NDD Unbiased	0.6	0.6	0
307	5e+12	NDD Unbiased	0.6	0.6	0
308	5e+12	NDD Unbiased	0.6	0.6	0
309	5e+12	NDD Unbiased	0.6	0.6	0
310	5e+12	NDD Unbiased	0.6	0.6	0
311	1e+13	NDD Unbiased	0.595	0.6	0.005
312	1e+13	NDD Unbiased	0.6	0.6	0
313	1e+13	NDD Unbiased	0.6	0.6	0
314	1e+13	NDD Unbiased	0.6	0.6	0
315	0	Correlation	0.6	0.6	0
316	0	Correlation	0.6	0.6	0
317	0	Correlation	0.6	0.6	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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
1e+12	0.6	0.6	0.6	0	0.595	0.59875	0.6	0.0025	-0.005	-0.00125	0	0.0025
5e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+13	0.595	0.59875	0.6	0.0025	0.6	0.6	0.6	0	0	0.00125	0.005	0.0025

Device Test: 25.7; SENSE_F_HT_PP





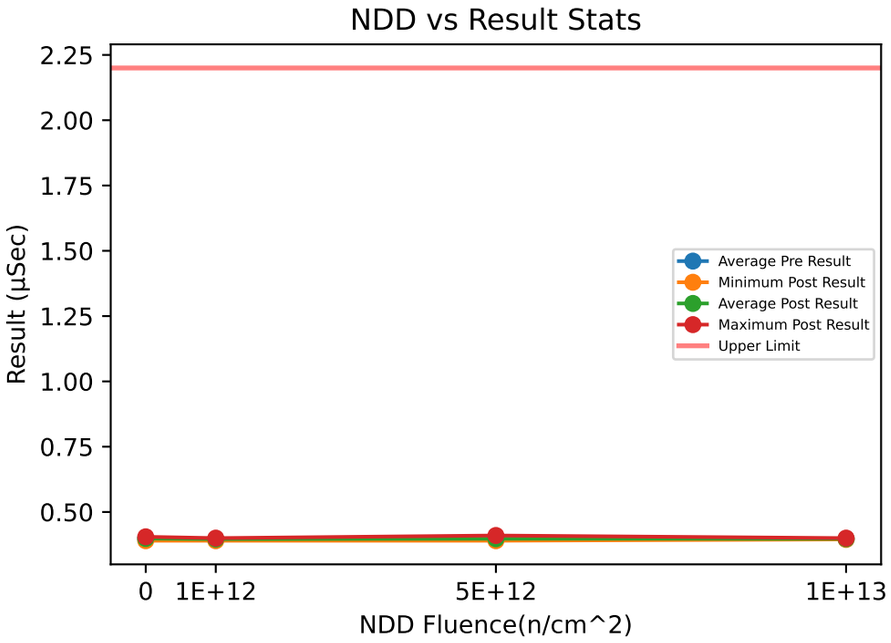
Test Results (Upper Limit = 2.2 (µSec))

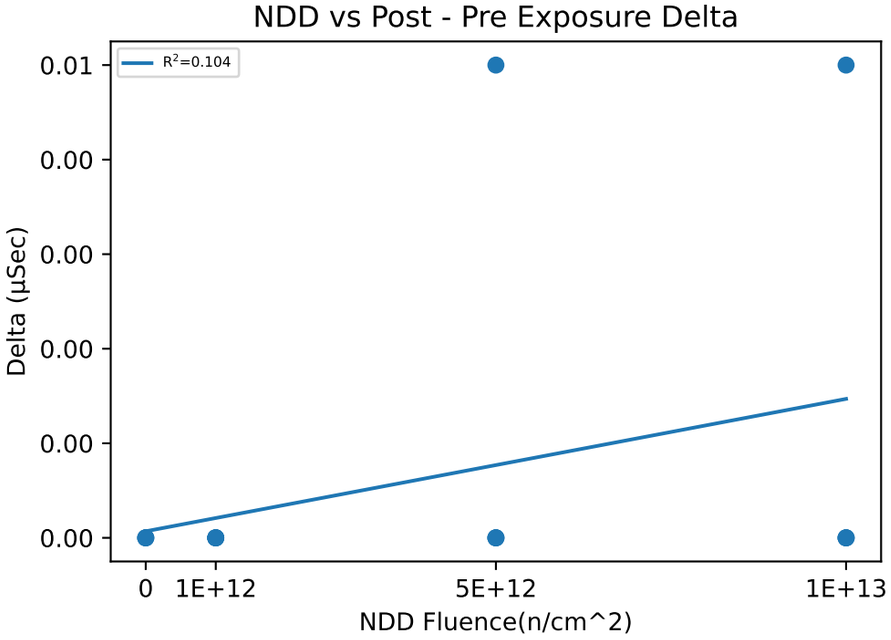
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.39	0.39	0
304	1e+12	NDD Unbiased	0.395	0.395	0
305	1e+12	NDD Unbiased	0.385	0.385	0
306	1e+12	NDD Unbiased	0.395	0.395	0
307	5e+12	NDD Unbiased	0.4	0.405	0.005
308	5e+12	NDD Unbiased	0.385	0.385	0
309	5e+12	NDD Unbiased	0.385	0.385	0
310	5e+12	NDD Unbiased	0.395	0.395	0
311	1e+13	NDD Unbiased	0.385	0.39	0.005
312	1e+13	NDD Unbiased	0.39	0.395	0.005
313	1e+13	NDD Unbiased	0.395	0.395	0
314	1e+13	NDD Unbiased	0.395	0.395	0
315	0	Correlation	0.395	0.395	0
316	0	Correlation	0.385	0.39	0.005
317	0	Correlation	0.4	0.4	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.385	0.39333	0.4	0.0076376	0.39	0.395	0.4	0.005	0	0.0016667	0.005	0.0028868
1e+12	0.385	0.39125	0.395	0.0047871	0.385	0.39125	0.395	0.0047871	0	0	0	0
5e+12	0.385	0.39125	0.4	0.0075	0.385	0.3925	0.405	0.0095743	0	0.00125	0.005	0.0025
1e+13	0.385	0.39125	0.395	0.0047871	0.39	0.39375	0.395	0.0025	0	0.0025	0.005	0.0028868

Device Test: 25.8; SENSE_F_HT_PP





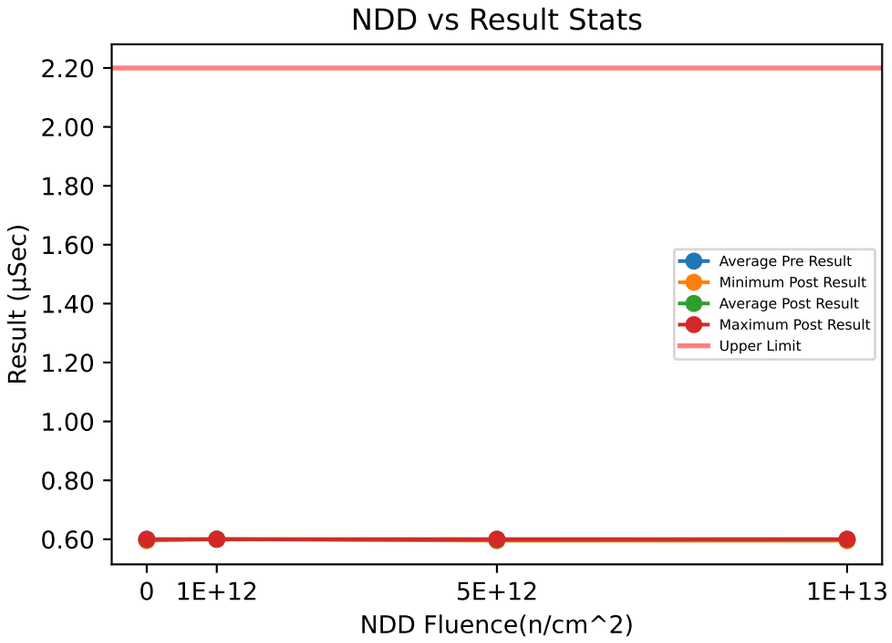
Test Results (Upper Limit = 2.2 (µSec))

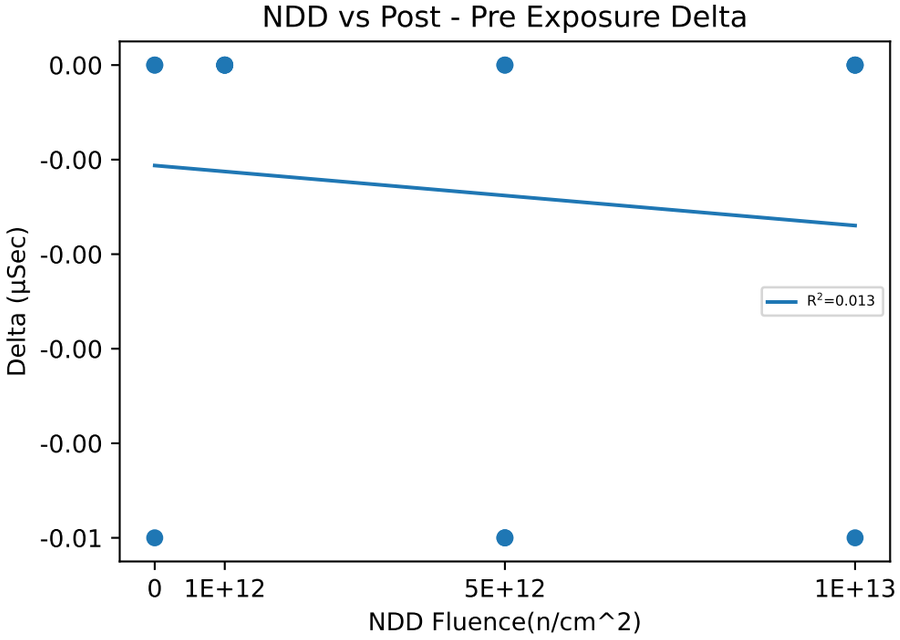
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.395	0.395	0
304	1e+12	NDD Unbiased	0.4	0.4	0
305	1e+12	NDD Unbiased	0.39	0.39	0
306	1e+12	NDD Unbiased	0.4	0.4	0
307	5e+12	NDD Unbiased	0.405	0.41	0.005
308	5e+12	NDD Unbiased	0.39	0.39	0
309	5e+12	NDD Unbiased	0.39	0.39	0
310	5e+12	NDD Unbiased	0.4	0.4	0
311	1e+13	NDD Unbiased	0.39	0.395	0.005
312	1e+13	NDD Unbiased	0.395	0.395	0
313	1e+13	NDD Unbiased	0.4	0.4	0
314	1e+13	NDD Unbiased	0.4	0.4	0
315	0	Correlation	0.4	0.4	0
316	0	Correlation	0.39	0.39	0
317	0	Correlation	0.405	0.405	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.39	0.39833	0.405	0.0076376	0.39	0.39833	0.405	0.0076376	0	0	0	0
1e+12	0.39	0.39625	0.4	0.0047871	0.39	0.39625	0.4	0.0047871	0	0	0	0
5e+12	0.39	0.39625	0.405	0.0075	0.39	0.3975	0.41	0.0095743	0	0.00125	0.005	0.0025
1e+13	0.39	0.39625	0.4	0.0047871	0.395	0.3975	0.4	0.0028868	0	0.00125	0.005	0.0025

Device Test: 25.9; SENSE_F_HT_PP





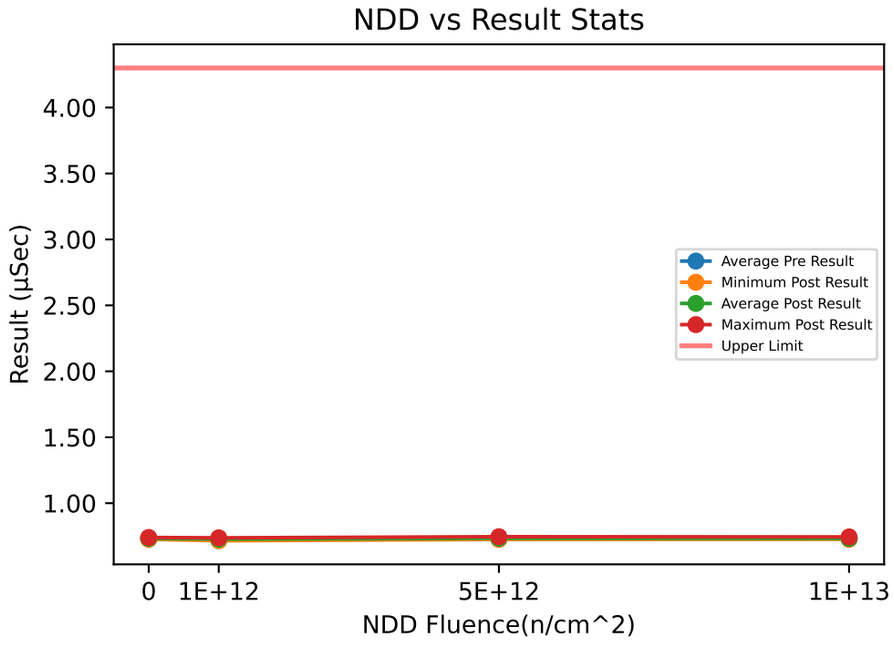
Test Results (Upper Limit = 2.2 (µSec))

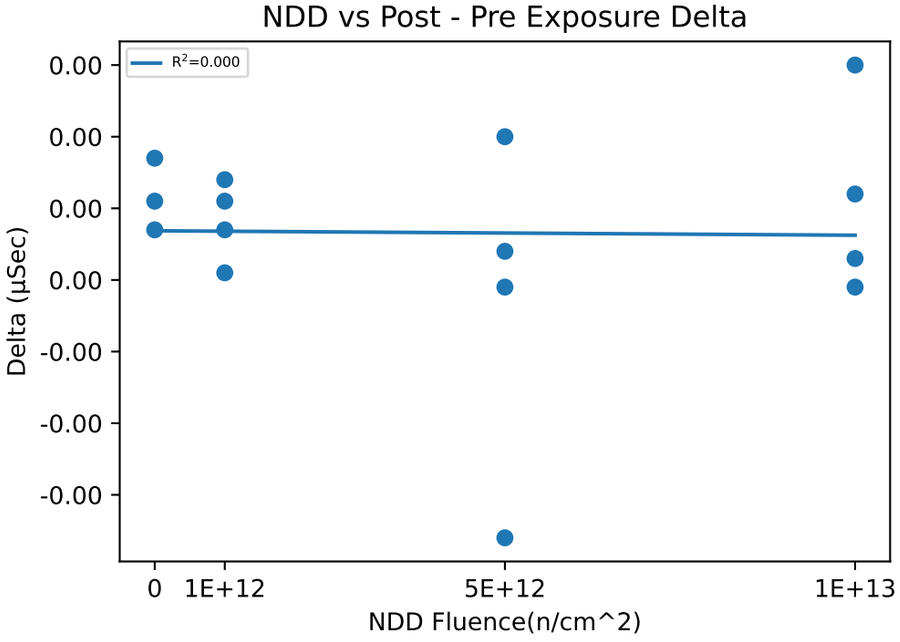
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6	0.6	0
304	1e+12	NDD Unbiased	0.6	0.6	0
305	1e+12	NDD Unbiased	0.6	0.6	0
306	1e+12	NDD Unbiased	0.6	0.6	0
307	5e+12	NDD Unbiased	0.6	0.6	0
308	5e+12	NDD Unbiased	0.6	0.595	-0.005
309	5e+12	NDD Unbiased	0.6	0.6	0
310	5e+12	NDD Unbiased	0.6	0.595	-0.005
311	1e+13	NDD Unbiased	0.6	0.595	-0.005
312	1e+13	NDD Unbiased	0.6	0.6	0
313	1e+13	NDD Unbiased	0.6	0.6	0
314	1e+13	NDD Unbiased	0.6	0.6	0
315	0	Correlation	0.6	0.595	-0.005
316	0	Correlation	0.6	0.6	0
317	0	Correlation	0.6	0.6	0

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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	0.595	0.59833	0.6	0.0028868	-0.005	-0.0016667	0	0.0028868
1e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
5e+12	0.6	0.6	0.6	0	0.595	0.5975	0.6	0.0028868	-0.005	-0.0025	0	0.0028868
1e+13	0.6	0.6	0.6	0	0.595	0.59875	0.6	0.0025	-0.005	-0.00125	0	0.0025

Device Test: 5.1; PROPD_RESET





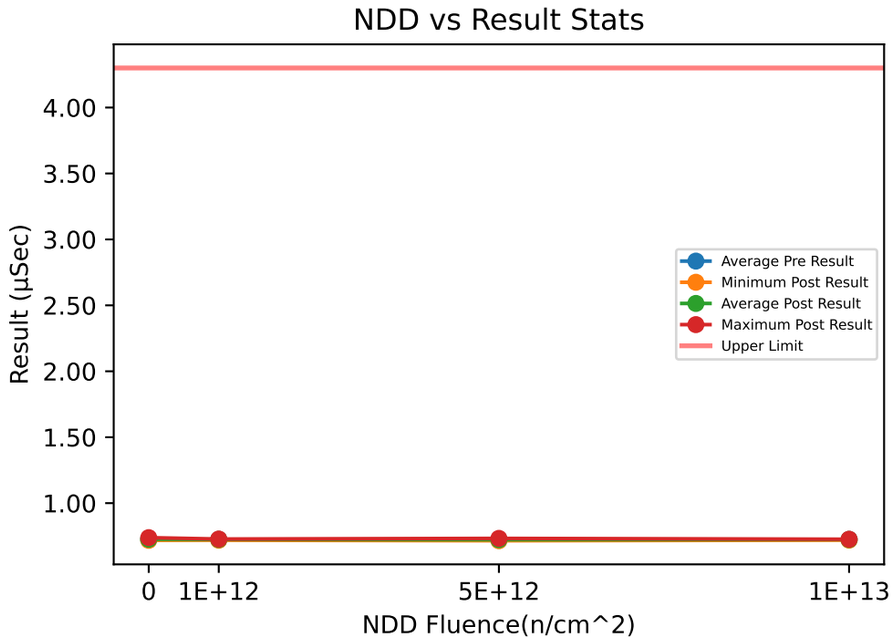
Test Results (Upper Limit = 4.3 (µSec))

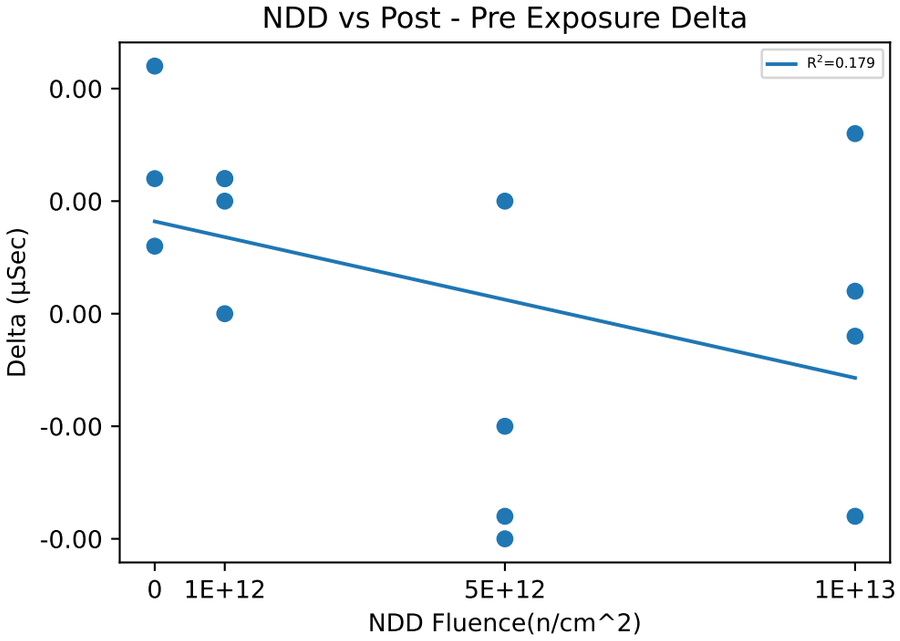
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7361	0.7372	0.0011
304	1e+12	NDD Unbiased	0.73	0.7307	0.0007
305	1e+12	NDD Unbiased	0.7264	0.7265	0.0001
306	1e+12	NDD Unbiased	0.714	0.7154	0.0014
307	5e+12	NDD Unbiased	0.7302	0.7306	0.0004
308	5e+12	NDD Unbiased	0.7458	0.7457	-0.0001
309	5e+12	NDD Unbiased	0.7309	0.7329	0.002
310	5e+12	NDD Unbiased	0.7288	0.7252	-0.0036
311	1e+13	NDD Unbiased	0.7297	0.7309	0.0012
312	1e+13	NDD Unbiased	0.7243	0.7273	0.003
313	1e+13	NDD Unbiased	0.7264	0.7263	-0.0001
314	1e+13	NDD Unbiased	0.7438	0.7441	0.0003
315	0	Correlation	0.7245	0.7262	0.0017
316	0	Correlation	0.7388	0.7399	0.0011
317	0	Correlation	0.7335	0.7342	0.0007

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7245	0.73227	0.7388	0.0072293	0.7262	0.73343	0.7399	0.0068821	0.0007	0.0011667	0.0017	0.00050332
1e+12	0.714	0.72662	0.7361	0.0093204	0.7154	0.72745	0.7372	0.0091602	0.0001	0.000825	0.0014	0.00056199
5e+12	0.7288	0.73392	0.7458	0.0079647	0.7252	0.7336	0.7457	0.0086883	-0.0036	-0.000325	0.002	0.0023599
1e+13	0.7243	0.73105	0.7438	0.0087858	0.7263	0.73215	0.7441	0.0082079	-0.0001	0.0011	0.003	0.0013784

Device Test: 5.10; PROPD_RESET





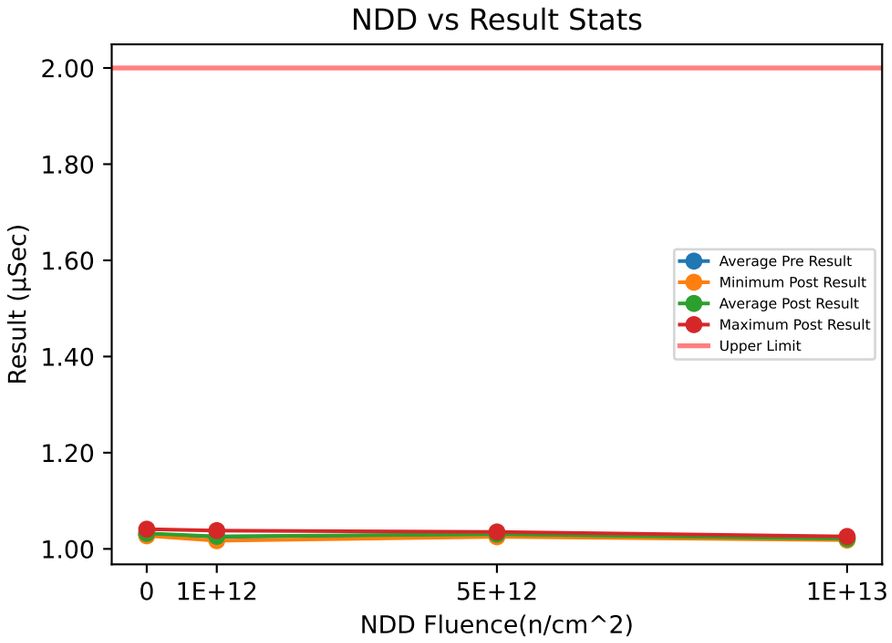
Test Results (Upper Limit = 4.3 (µSec))

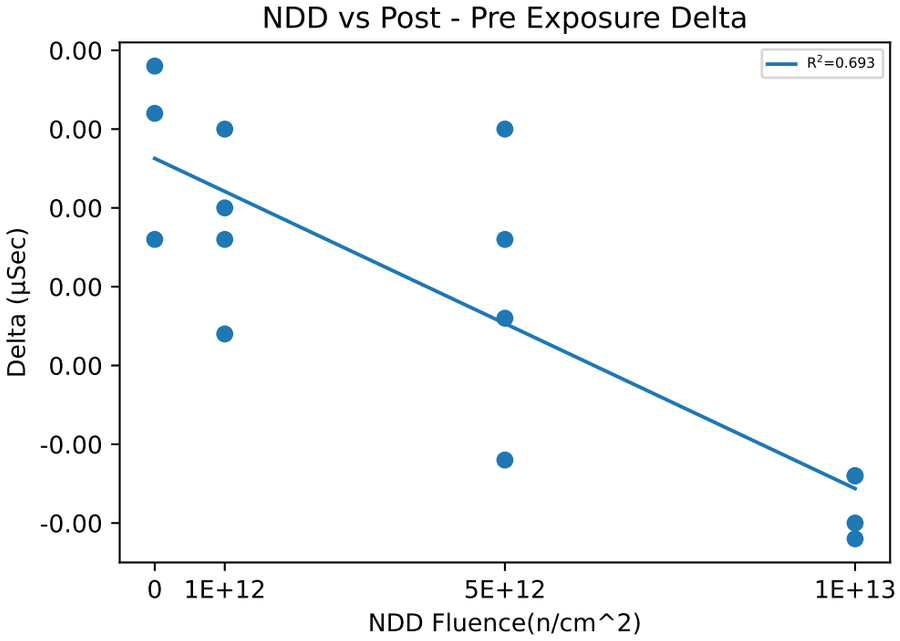
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7248	0.7254	0.0006
304	1e+12	NDD Unbiased	0.7272	0.7278	0.0006
305	1e+12	NDD Unbiased	0.7189	0.7189	0
306	1e+12	NDD Unbiased	0.7259	0.7264	0.0005
307	5e+12	NDD Unbiased	0.7285	0.7276	-0.0009
308	5e+12	NDD Unbiased	0.7168	0.7173	0.0005
309	5e+12	NDD Unbiased	0.7332	0.7327	-0.0005
310	5e+12	NDD Unbiased	0.7161	0.7151	-0.001
311	1e+13	NDD Unbiased	0.7254	0.7253	-0.0001
312	1e+13	NDD Unbiased	0.7256	0.7264	0.0008
313	1e+13	NDD Unbiased	0.7203	0.7194	-0.0009
314	1e+13	NDD Unbiased	0.7259	0.726	0.0001
315	0	Correlation	0.7217	0.7228	0.0011
316	0	Correlation	0.7175	0.7181	0.0006
317	0	Correlation	0.738	0.7383	0.0003

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7175	0.72573	0.738	0.010829	0.7181	0.7264	0.7383	0.01057	0.0003	0.00066667	0.0011	0.00040415
1e+12	0.7189	0.7242	0.7272	0.003667	0.7189	0.72463	0.7278	0.0039416	0	0.000425	0.0006	0.00028723
5e+12	0.7161	0.72365	0.7332	0.0085372	0.7151	0.72318	0.7327	0.0083671	-0.001	-0.000475	0.0005	0.00068496
1e+13	0.7203	0.7243	0.7259	0.0026746	0.7194	0.72428	0.7264	0.0032816	-0.0009	-2.5e-05	0.0008	0.0006994

Device Test: 5.105; PROPD_SR_UVLO





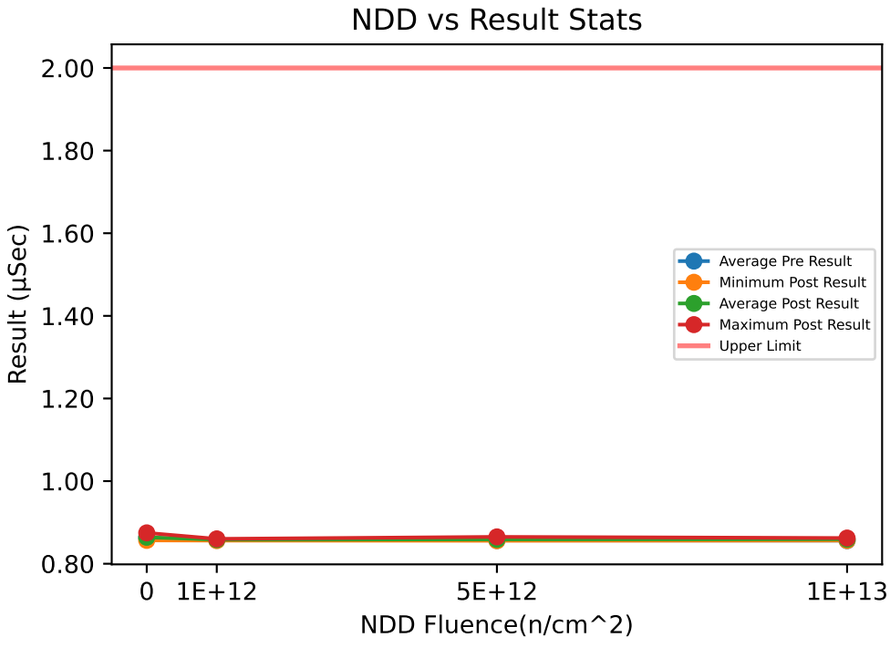
Test Results (Upper Limit = 2.0 (µSec))

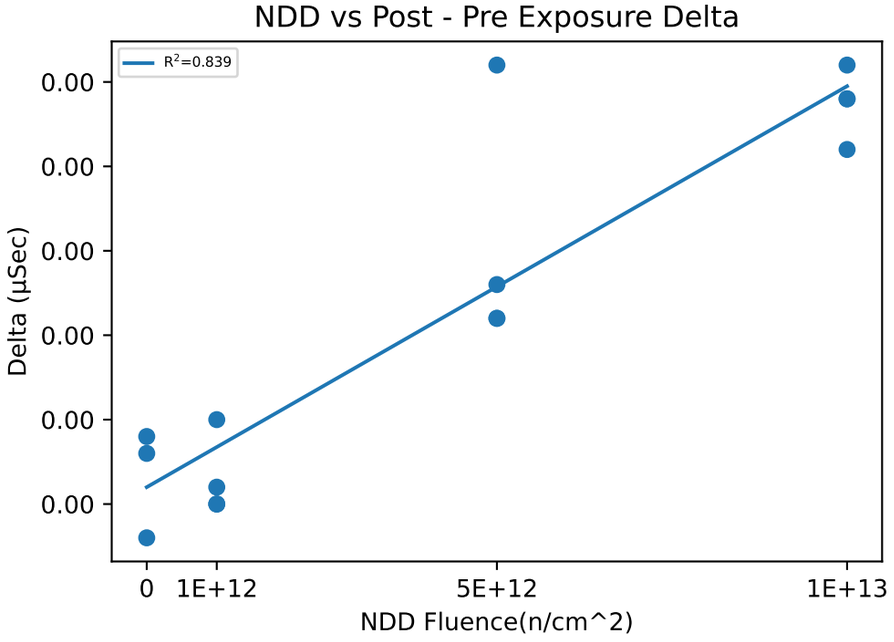
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.0296	1.0304	0.0008
304	1e+12	NDD Unbiased	1.0171	1.0186	0.0015
305	1e+12	NDD Unbiased	1.0168	1.017	0.0002
306	1e+12	NDD Unbiased	1.037	1.038	0.001
307	5e+12	NDD Unbiased	1.0314	1.0317	0.0003
308	5e+12	NDD Unbiased	1.0243	1.0251	0.0008
309	5e+12	NDD Unbiased	1.0337	1.0352	0.0015
310	5e+12	NDD Unbiased	1.0306	1.03	-0.0006
311	1e+13	NDD Unbiased	1.0193	1.0183	-0.001
312	1e+13	NDD Unbiased	1.022	1.0209	-0.0011
313	1e+13	NDD Unbiased	1.0265	1.0258	-0.0007
314	1e+13	NDD Unbiased	1.0206	1.0199	-0.0007
315	0	Correlation	1.0267	1.0283	0.0016
316	0	Correlation	1.0253	1.0272	0.0019
317	0	Correlation	1.0402	1.041	0.0008

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0253	1.0307	1.0402	0.0082282	1.0272	1.0322	1.041	0.0076696	0.0008	0.0014333	0.0019	0.00056862
1e+12	1.0168	1.0251	1.037	0.0099121	1.017	1.026	1.038	0.0099853	0.0002	0.000875	0.0015	0.00053774
5e+12	1.0243	1.03	1.0337	0.0040208	1.0251	1.0305	1.0352	0.0042008	-0.0006	0.0005	0.0015	0.00088318
1e+13	1.0193	1.0221	1.0265	0.0031337	1.0183	1.0212	1.0258	0.0032325	-0.0011	-0.000875	-0.0007	0.00020616

Device Test: 5.106; PROPD_SR_UVLO





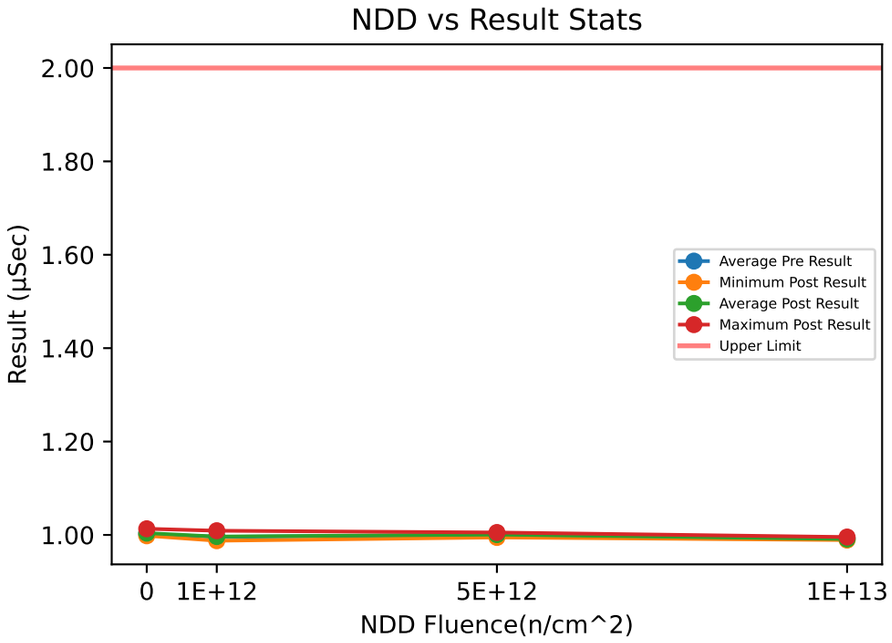
Test Results (Upper Limit = 2.0 (µSec))

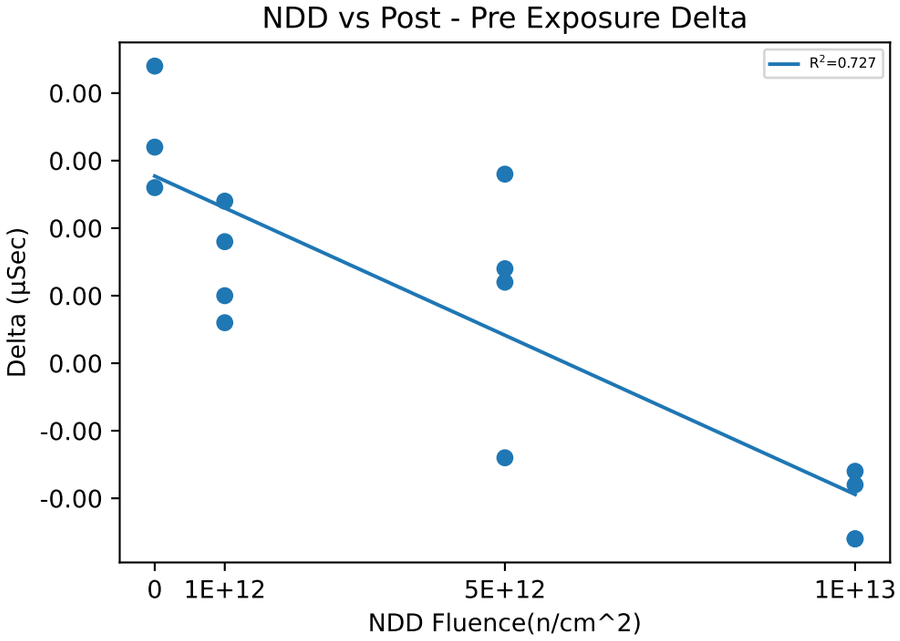
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.8592	0.8602	0.001
304	1e+12	NDD Unbiased	0.8565	0.8575	0.001
305	1e+12	NDD Unbiased	0.8549	0.856	0.0011
306	1e+12	NDD Unbiased	0.858	0.8595	0.0015
307	5e+12	NDD Unbiased	0.8614	0.865	0.0036
308	5e+12	NDD Unbiased	0.8554	0.8575	0.0021
309	5e+12	NDD Unbiased	0.8536	0.8557	0.0021
310	5e+12	NDD Unbiased	0.855	0.8573	0.0023
311	1e+13	NDD Unbiased	0.8591	0.8622	0.0031
312	1e+13	NDD Unbiased	0.8541	0.8575	0.0034
313	1e+13	NDD Unbiased	0.8528	0.8562	0.0034
314	1e+13	NDD Unbiased	0.8578	0.8614	0.0036
315	0	Correlation	0.8596	0.8609	0.0013
316	0	Correlation	0.8551	0.8565	0.0014
317	0	Correlation	0.8739	0.8747	0.0008

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.8551	0.86287	0.8739	0.0098165	0.8565	0.86403	0.8747	0.009496	0.0008	0.0011667	0.0014	0.00032146
1e+12	0.8549	0.85715	0.8592	0.0018628	0.856	0.8583	0.8602	0.0019131	0.001	0.00115	0.0015	0.00023805
5e+12	0.8536	0.85635	0.8614	0.003454	0.8557	0.85888	0.865	0.004162	0.0021	0.002525	0.0036	0.00072284
1e+13	0.8528	0.85595	0.8591	0.0029827	0.8562	0.85933	0.8622	0.002925	0.0031	0.003375	0.0036	0.00020616

Device Test: 5.107; PROPD_SR_UVLO





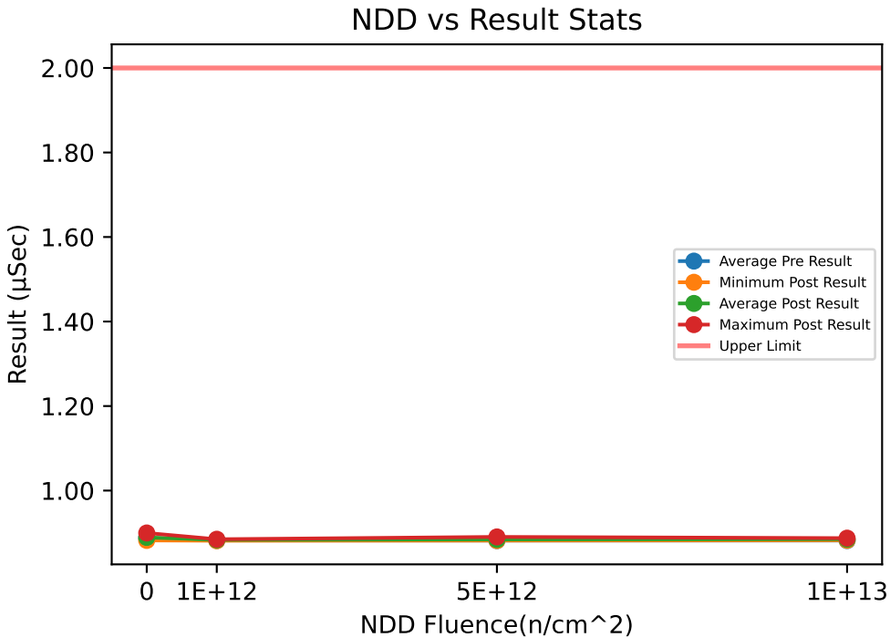
Test Results (Upper Limit = 2.0 (µSec))

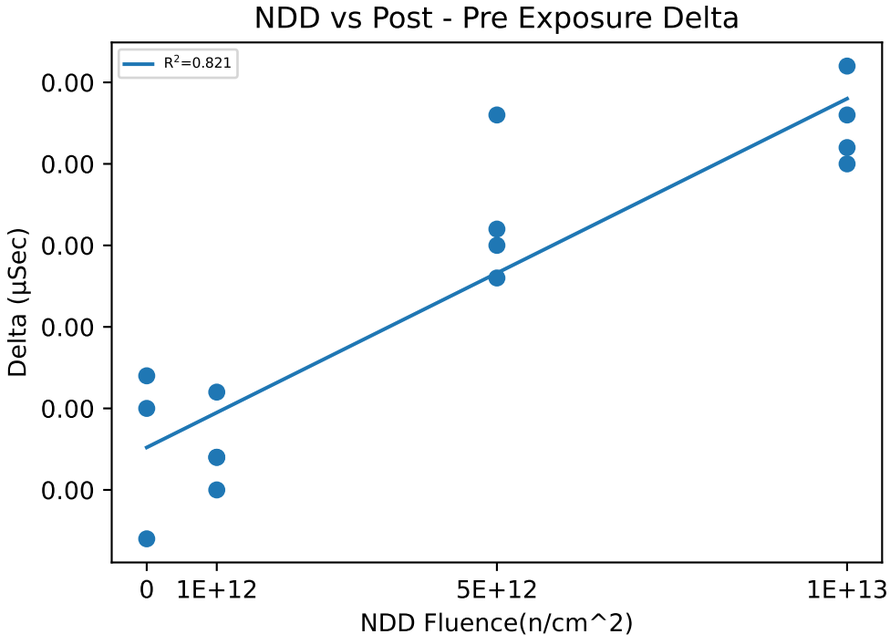
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.0004	1.0007	0.0003
304	1e+12	NDD Unbiased	0.9881	0.989	0.0009
305	1e+12	NDD Unbiased	0.9871	0.9876	0.0005
306	1e+12	NDD Unbiased	1.0078	1.009	0.0012
307	5e+12	NDD Unbiased	1.0012	1.0026	0.0014
308	5e+12	NDD Unbiased	0.994	0.9946	0.0006
309	5e+12	NDD Unbiased	1.0045	1.0052	0.0007
310	5e+12	NDD Unbiased	1.001	1.0003	-0.0007
311	1e+13	NDD Unbiased	0.9903	0.989	-0.0013
312	1e+13	NDD Unbiased	0.9914	0.9901	-0.0013
313	1e+13	NDD Unbiased	0.9964	0.9955	-0.0009
314	1e+13	NDD Unbiased	0.9909	0.9901	-0.0008
315	0	Correlation	0.998	1.0002	0.0022
316	0	Correlation	0.9966	0.9982	0.0016
317	0	Correlation	1.0119	1.0132	0.0013

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9966	1.0022	1.0119	0.0084583	0.9982	1.0039	1.0132	0.0081445	0.0013	0.0017	0.0022	0.00045826
1e+12	0.9871	0.99585	1.0078	0.010002	0.9876	0.99657	1.009	0.010154	0.0003	0.000725	0.0012	0.00040311
5e+12	0.994	1.0002	1.0045	0.0044184	0.9946	1.0007	1.0052	0.0045177	-0.0007	0.0005	0.0014	0.0008756
1e+13	0.9903	0.99225	0.9964	0.002803	0.989	0.99118	0.9955	0.0029296	-0.0013	-0.001075	-0.0008	0.000263

Device Test: 5.108; PROPD_SR_UVLO





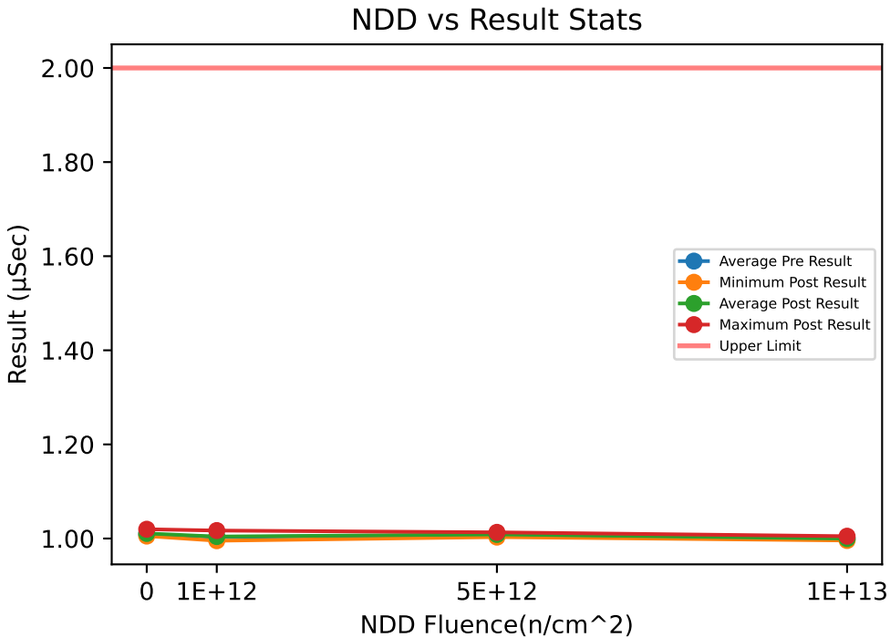
Test Results (Upper Limit = 2.0 (µSec))

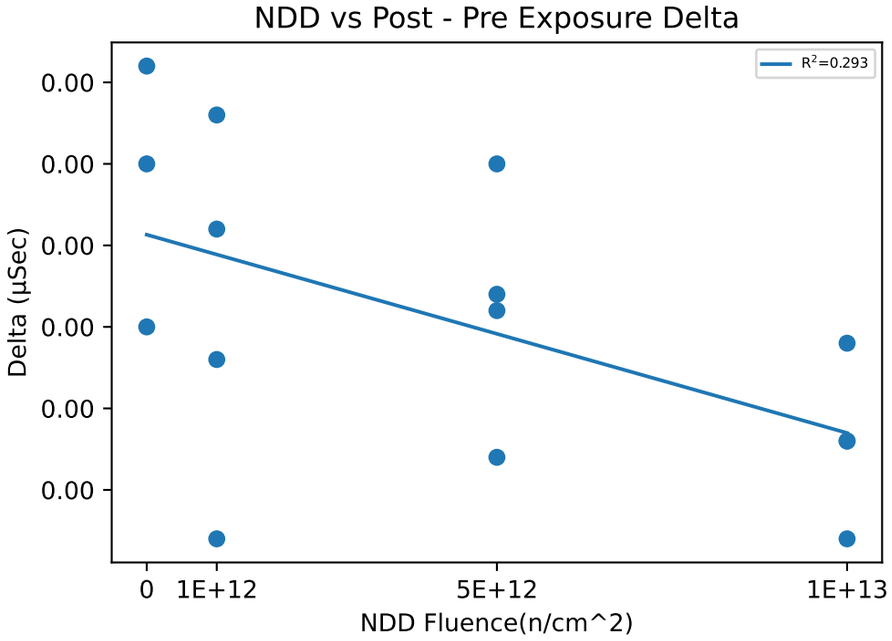
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.8838	0.8848	0.001
304	1e+12	NDD Unbiased	0.8814	0.8826	0.0012
305	1e+12	NDD Unbiased	0.8801	0.8813	0.0012
306	1e+12	NDD Unbiased	0.8832	0.8848	0.0016
307	5e+12	NDD Unbiased	0.887	0.8903	0.0033
308	5e+12	NDD Unbiased	0.8805	0.883	0.0025
309	5e+12	NDD Unbiased	0.8791	0.8817	0.0026
310	5e+12	NDD Unbiased	0.88	0.8823	0.0023
311	1e+13	NDD Unbiased	0.8843	0.8873	0.003
312	1e+13	NDD Unbiased	0.8798	0.8829	0.0031
313	1e+13	NDD Unbiased	0.879	0.8823	0.0033
314	1e+13	NDD Unbiased	0.8838	0.8874	0.0036
315	0	Correlation	0.884	0.8857	0.0017
316	0	Correlation	0.8805	0.882	0.0015
317	0	Correlation	0.8989	0.8996	0.0007

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.8805	0.8878	0.8989	0.0097709	0.882	0.8891	0.8996	0.0092795	0.0007	0.0013	0.0017	0.00052915
1e+12	0.8801	0.88213	0.8838	0.0016919	0.8813	0.88338	0.8848	0.0017289	0.001	0.00125	0.0016	0.00025166
5e+12	0.8791	0.88165	0.887	0.0036134	0.8817	0.88433	0.8903	0.0040186	0.0023	0.002675	0.0033	0.00043493
1e+13	0.879	0.88172	0.8843	0.0027122	0.8823	0.88497	0.8874	0.0027536	0.003	0.00325	0.0036	0.00026458

Device Test: 5.109; PROPD_SR_UVLO





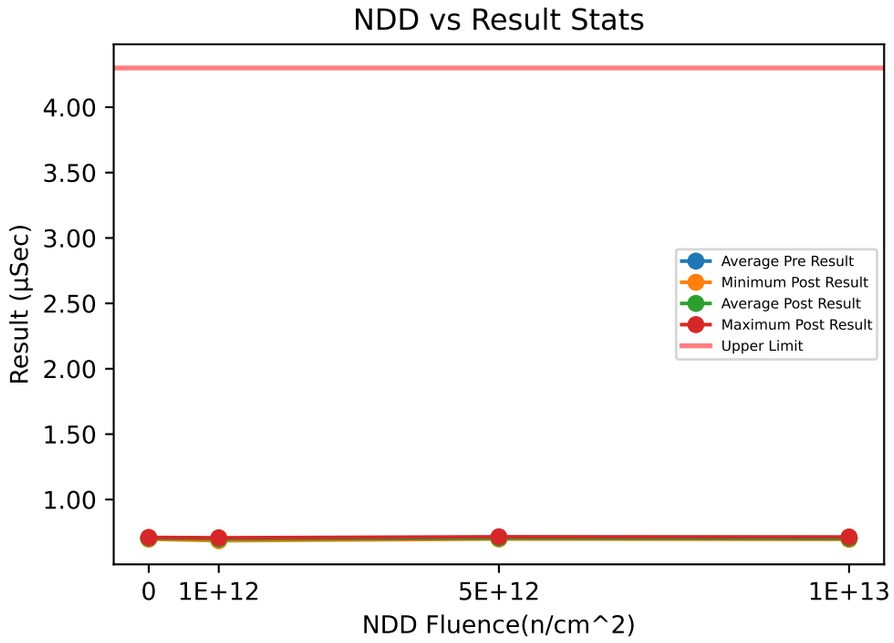
Test Results (Upper Limit = 2.0 (µSec))

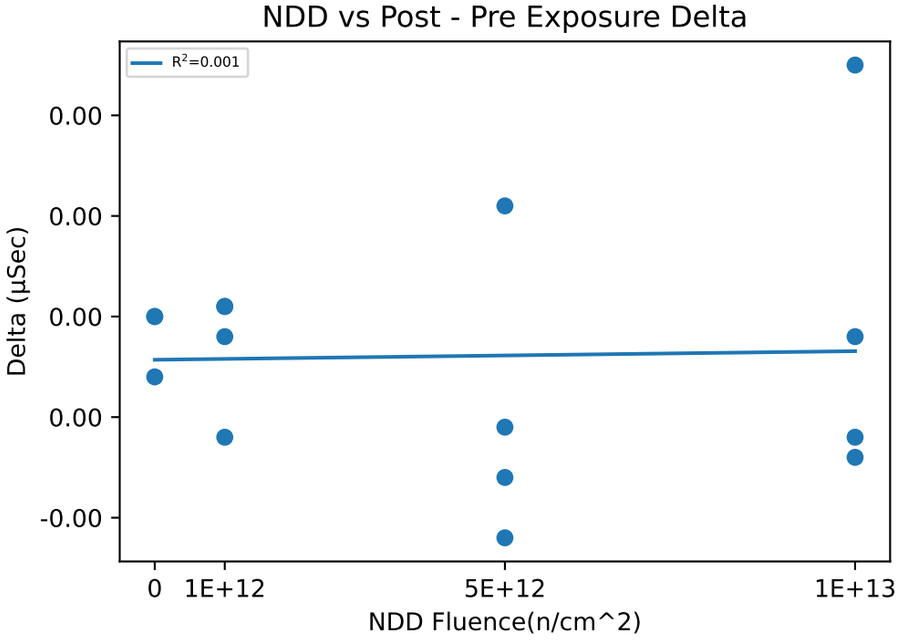
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.007	1.0078	0.0008
304	1e+12	NDD Unbiased	0.9946	0.9969	0.0023
305	1e+12	NDD Unbiased	0.9956	0.9953	-0.0003
306	1e+12	NDD Unbiased	1.0153	1.0169	0.0016
307	5e+12	NDD Unbiased	1.0086	1.0106	0.002
308	5e+12	NDD Unbiased	1.0018	1.003	0.0012
309	5e+12	NDD Unbiased	1.012	1.0131	0.0011
310	5e+12	NDD Unbiased	1.0077	1.0079	0.0002
311	1e+13	NDD Unbiased	0.9961	0.9958	-0.0003
312	1e+13	NDD Unbiased	0.9998	1.0001	0.0003
313	1e+13	NDD Unbiased	1.0046	1.0049	0.0003
314	1e+13	NDD Unbiased	0.9974	0.9983	0.0009
315	0	Correlation	1.0048	1.0074	0.0026
316	0	Correlation	1.0032	1.0052	0.002
317	0	Correlation	1.0187	1.0197	0.001

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0032	1.0089	1.0187	0.0085247	1.0052	1.0108	1.0197	0.0078143	0.001	0.0018667	0.0026	0.00080829
1e+12	0.9946	1.0031	1.0153	0.009875	0.9953	1.0042	1.0169	0.010112	-0.0003	0.0011	0.0023	0.0011165
5e+12	1.0018	1.0075	1.012	0.0042421	1.003	1.0086	1.0131	0.004324	0.0002	0.001125	0.002	0.00073655
1e+13	0.9961	0.99948	1.0046	0.0037447	0.9958	0.99977	1.0049	0.0038448	-0.0003	0.0003	0.0009	0.0004899

Device Test: 5.11; PROPD_RESET





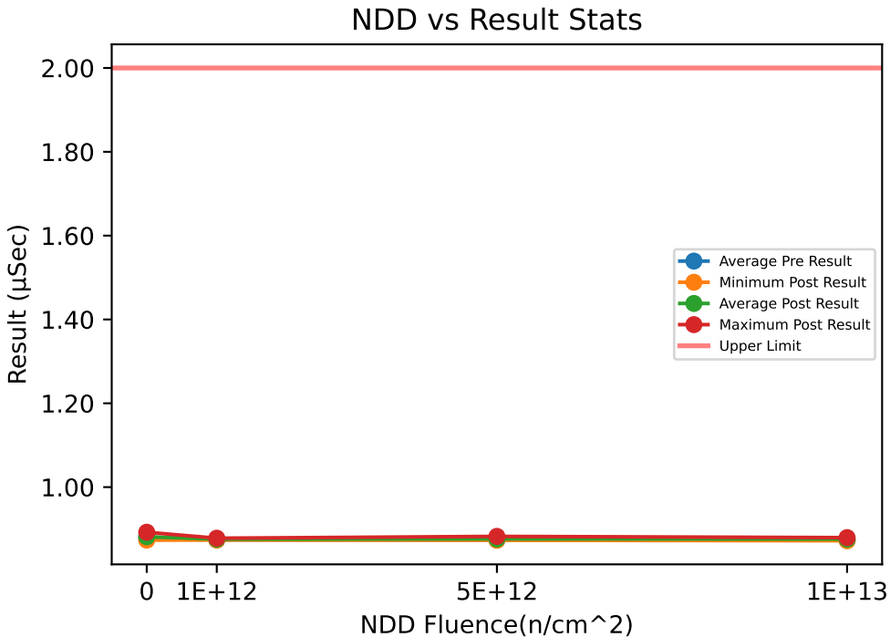
Test Results (Upper Limit = 4.3 (µSec))

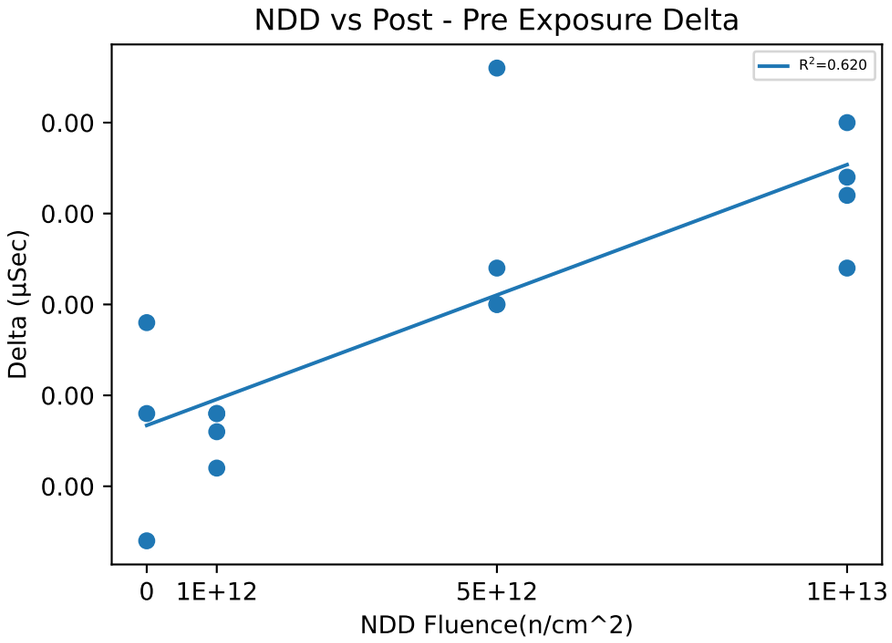
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7063	0.7074	0.0011
304	1e+12	NDD Unbiased	0.6999	0.7007	0.0008
305	1e+12	NDD Unbiased	0.6968	0.6966	-0.0002
306	1e+12	NDD Unbiased	0.684	0.6851	0.0011
307	5e+12	NDD Unbiased	0.7008	0.7007	-0.0001
308	5e+12	NDD Unbiased	0.7155	0.7149	-0.0006
309	5e+12	NDD Unbiased	0.7011	0.7032	0.0021
310	5e+12	NDD Unbiased	0.6995	0.6983	-0.0012
311	1e+13	NDD Unbiased	0.7002	0.701	0.0008
312	1e+13	NDD Unbiased	0.6944	0.6979	0.0035
313	1e+13	NDD Unbiased	0.6961	0.6957	-0.0004
314	1e+13	NDD Unbiased	0.7139	0.7137	-0.0002
315	0	Correlation	0.6961	0.6971	0.001
316	0	Correlation	0.7094	0.7104	0.001
317	0	Correlation	0.7052	0.7056	0.0004

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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	0.70357	0.7094	0.0067988	0.6971	0.70437	0.7104	0.0067352	0.0004	0.0008	0.001	0.00034641
1e+12	0.684	0.69675	0.7063	0.0093753	0.6851	0.69745	0.7074	0.0093597	-0.0002	0.0007	0.0011	0.00061644
5e+12	0.6995	0.70422	0.7155	0.0075487	0.6983	0.70427	0.7149	0.0073604	-0.0012	5e-05	0.0021	0.0014387
1e+13	0.6944	0.70115	0.7139	0.0088418	0.6957	0.70208	0.7137	0.0080492	-0.0004	0.000925	0.0035	0.0017951

Device Test: 5.110; PROPD_SR_UVLO





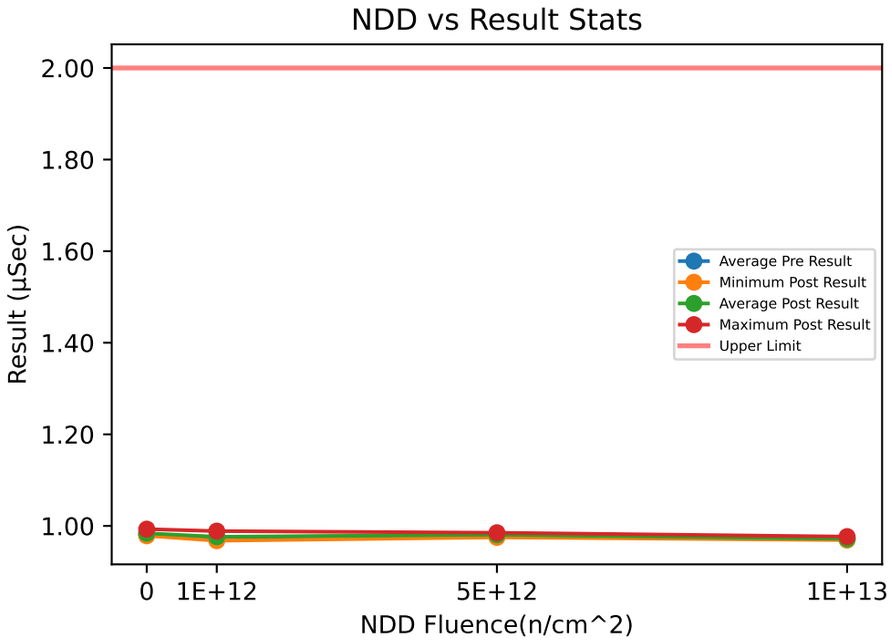
Test Results (Upper Limit = 2.0 (µSec))

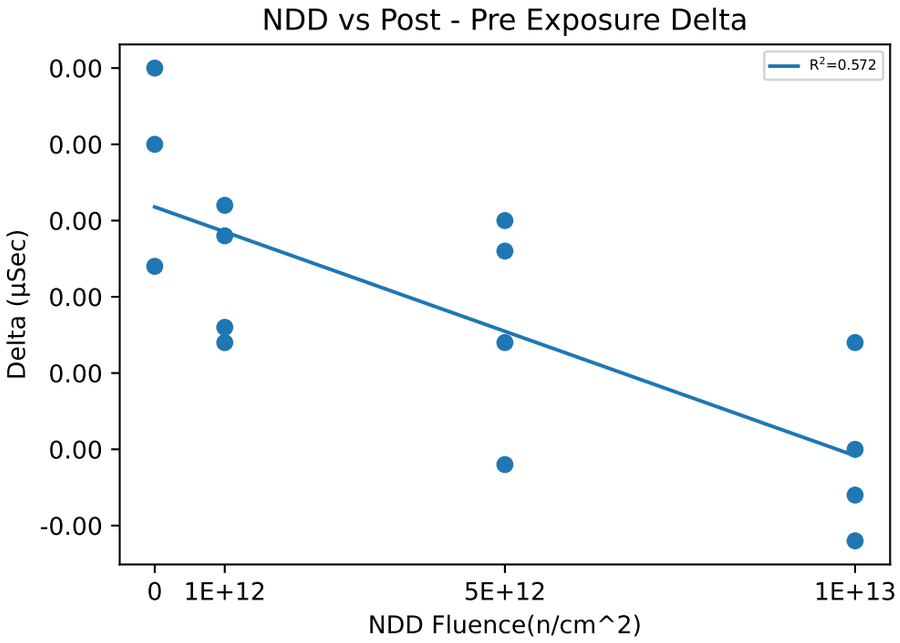
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.8768	0.8781	0.0013
304	1e+12	NDD Unbiased	0.8741	0.8755	0.0014
305	1e+12	NDD Unbiased	0.8725	0.8736	0.0011
306	1e+12	NDD Unbiased	0.8746	0.876	0.0014
307	5e+12	NDD Unbiased	0.8791	0.8824	0.0033
308	5e+12	NDD Unbiased	0.8727	0.8749	0.0022
309	5e+12	NDD Unbiased	0.8712	0.8732	0.002
310	5e+12	NDD Unbiased	0.873	0.875	0.002
311	1e+13	NDD Unbiased	0.8773	0.8795	0.0022
312	1e+13	NDD Unbiased	0.8714	0.874	0.0026
313	1e+13	NDD Unbiased	0.8691	0.8721	0.003
314	1e+13	NDD Unbiased	0.8757	0.8784	0.0027
315	0	Correlation	0.877	0.8789	0.0019
316	0	Correlation	0.8722	0.8736	0.0014
317	0	Correlation	0.8916	0.8923	0.0007

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.8722	0.88027	0.8916	0.010104	0.8736	0.8816	0.8923	0.0096379	0.0007	0.0013333	0.0019	0.00060277
1e+12	0.8725	0.8745	0.8768	0.0017758	0.8736	0.8758	0.8781	0.0018493	0.0011	0.0013	0.0014	0.00014142
5e+12	0.8712	0.874	0.8791	0.00349	0.8732	0.87638	0.8824	0.0041007	0.002	0.002375	0.0033	0.00062383
1e+13	0.8691	0.87338	0.8773	0.0037854	0.8721	0.876	0.8795	0.0035223	0.0022	0.002625	0.003	0.0003304

Device Test: 5.111; PROPD_SR_UVLO





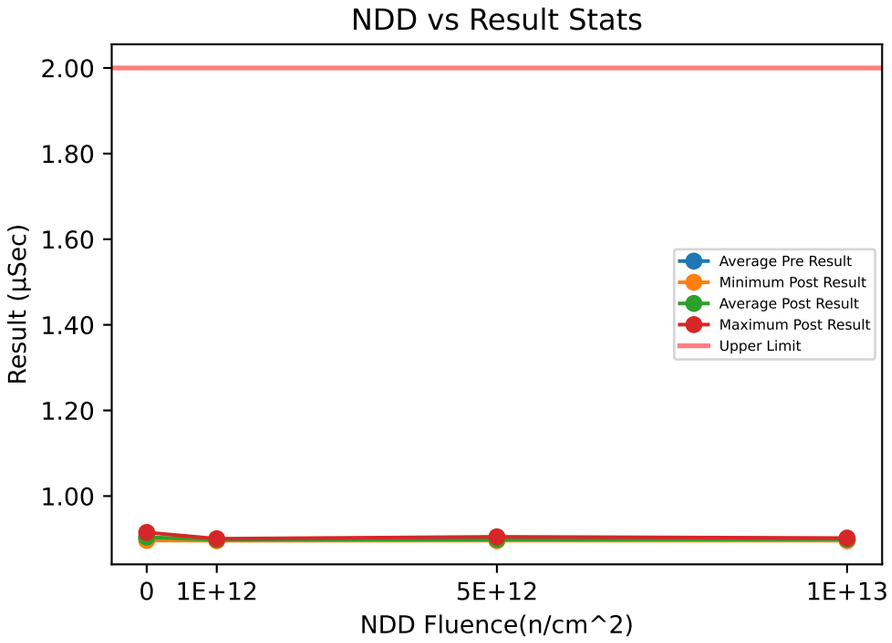
Test Results (Upper Limit = 2.0 (µSec))

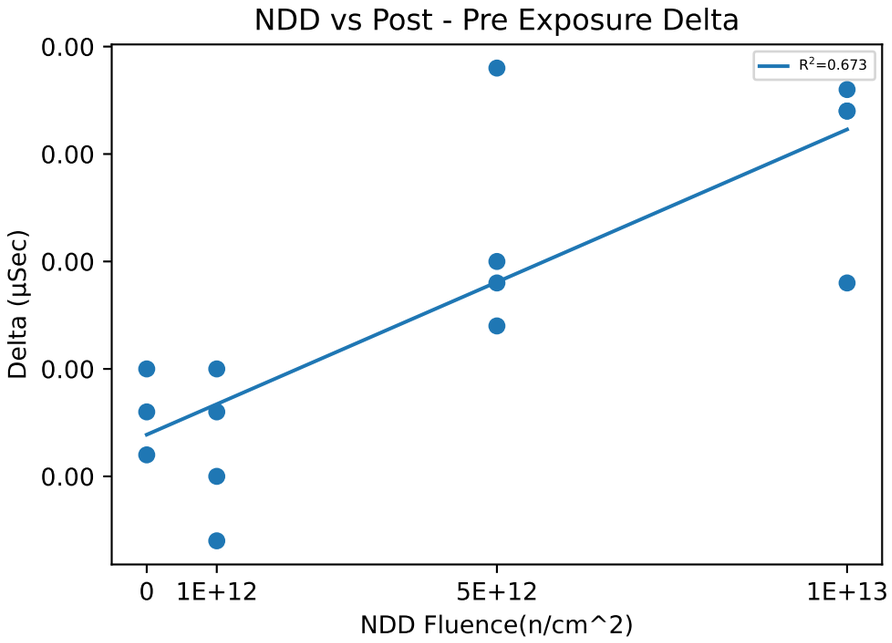
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.9795	0.9802	0.0007
304	1e+12	NDD Unbiased	0.967	0.9686	0.0016
305	1e+12	NDD Unbiased	0.9669	0.9677	0.0008
306	1e+12	NDD Unbiased	0.9873	0.9887	0.0014
307	5e+12	NDD Unbiased	0.9813	0.9826	0.0013
308	5e+12	NDD Unbiased	0.9743	0.975	0.0007
309	5e+12	NDD Unbiased	0.9836	0.9851	0.0015
310	5e+12	NDD Unbiased	0.9804	0.9803	-0.0001
311	1e+13	NDD Unbiased	0.9694	0.9691	-0.0003
312	1e+13	NDD Unbiased	0.972	0.9714	-0.0006
313	1e+13	NDD Unbiased	0.976	0.9767	0.0007
314	1e+13	NDD Unbiased	0.9702	0.9702	0
315	0	Correlation	0.9778	0.9803	0.0025
316	0	Correlation	0.9765	0.9785	0.002
317	0	Correlation	0.9918	0.993	0.0012

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9765	0.98203	0.9918	0.0084831	0.9785	0.98393	0.993	0.0079034	0.0012	0.0019	0.0025	0.00065574
1e+12	0.9669	0.97518	0.9873	0.010017	0.9677	0.9763	0.9887	0.010037	0.0007	0.001125	0.0016	0.00044253
5e+12	0.9743	0.9799	0.9836	0.003969	0.975	0.98075	0.9851	0.0043054	-0.0001	0.00085	0.0015	0.0007188
1e+13	0.9694	0.9719	0.976	0.0029417	0.9691	0.97185	0.9767	0.003367	-0.0006	-5e-05	0.0007	0.00055678

Device Test: 5.112; PROPD_SR_UVLO





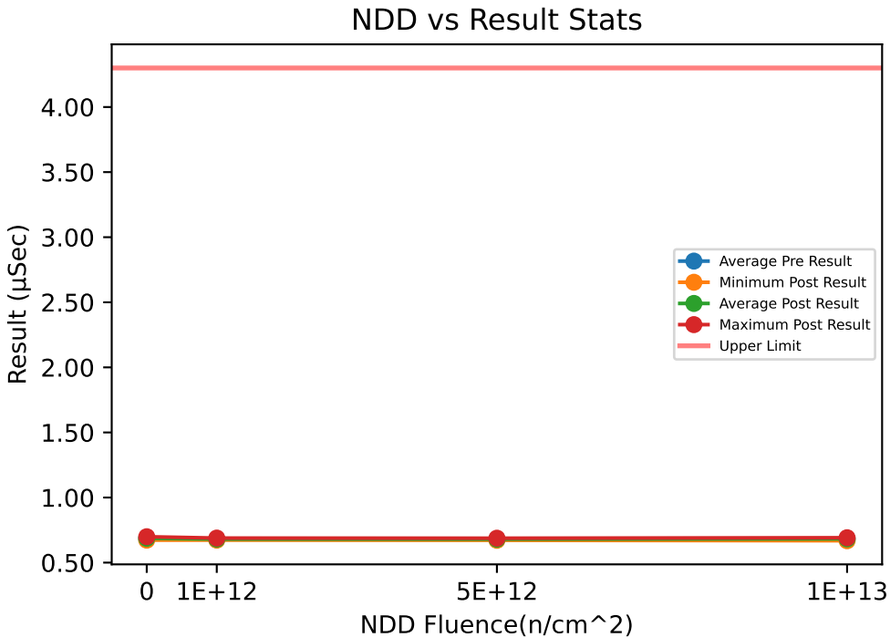
Test Results (Upper Limit = 2.0 (µSec))

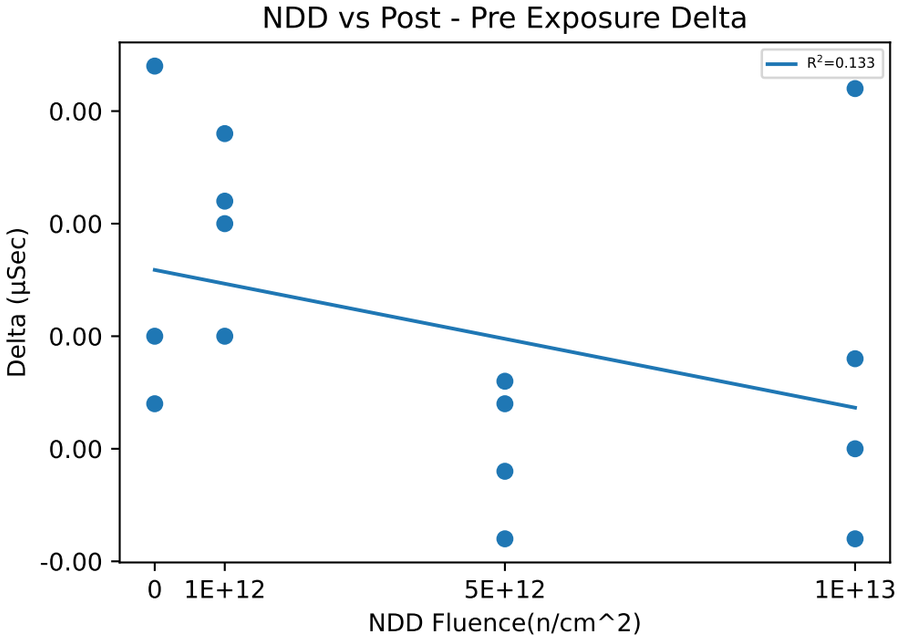
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.8988	0.9003	0.0015
304	1e+12	NDD Unbiased	0.8963	0.8973	0.001
305	1e+12	NDD Unbiased	0.895	0.8957	0.0007
306	1e+12	NDD Unbiased	0.8977	0.899	0.0013
307	5e+12	NDD Unbiased	0.9019	0.9048	0.0029
308	5e+12	NDD Unbiased	0.8956	0.8975	0.0019
309	5e+12	NDD Unbiased	0.8939	0.8959	0.002
310	5e+12	NDD Unbiased	0.8951	0.8968	0.0017
311	1e+13	NDD Unbiased	0.8999	0.9018	0.0019
312	1e+13	NDD Unbiased	0.8943	0.897	0.0027
313	1e+13	NDD Unbiased	0.8932	0.8959	0.0027
314	1e+13	NDD Unbiased	0.8991	0.9019	0.0028
315	0	Correlation	0.8993	0.9006	0.0013
316	0	Correlation	0.8948	0.8963	0.0015
317	0	Correlation	0.9139	0.915	0.0011

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.8948	0.90267	0.9139	0.0099852	0.8963	0.90397	0.915	0.009794	0.0011	0.0013	0.0015	0.0002
1e+12	0.895	0.89695	0.8988	0.0016543	0.8957	0.89807	0.9003	0.002004	0.0007	0.001125	0.0015	0.00035
5e+12	0.8939	0.89663	0.9019	0.0035883	0.8959	0.89875	0.9048	0.0040862	0.0017	0.002125	0.0029	0.00053151
1e+13	0.8932	0.89663	0.8999	0.0033659	0.8959	0.89915	0.9019	0.0031501	0.0019	0.002525	0.0028	0.00041932

Device Test: 5.12; PROPD_RESET





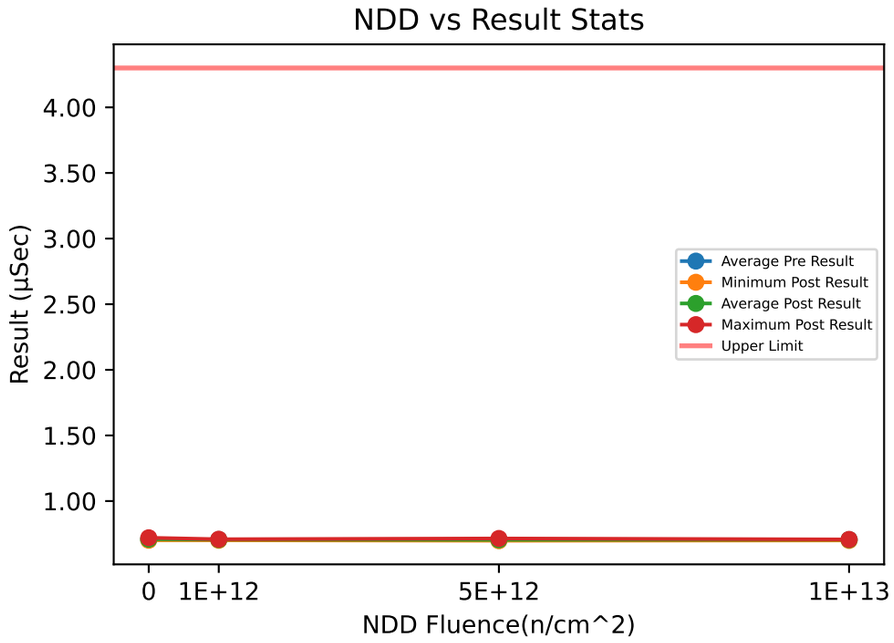
Test Results (Upper Limit = 4.3 (µSec))

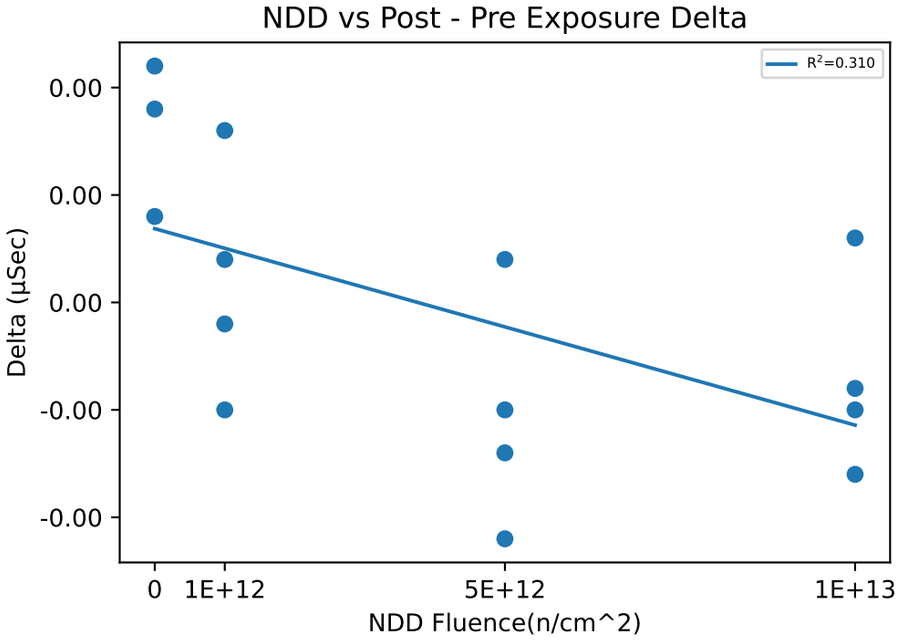
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6874	0.6885	0.0011
304	1e+12	NDD Unbiased	0.675	0.6755	0.0005
305	1e+12	NDD Unbiased	0.6846	0.6856	0.001
306	1e+12	NDD Unbiased	0.6714	0.6728	0.0014
307	5e+12	NDD Unbiased	0.6763	0.6766	0.0003
308	5e+12	NDD Unbiased	0.6873	0.6875	0.0002
309	5e+12	NDD Unbiased	0.685	0.6846	-0.0004
310	5e+12	NDD Unbiased	0.6716	0.6715	-0.0001
311	1e+13	NDD Unbiased	0.6895	0.6891	-0.0004
312	1e+13	NDD Unbiased	0.681	0.6814	0.0004
313	1e+13	NDD Unbiased	0.6682	0.6682	0
314	1e+13	NDD Unbiased	0.6895	0.6911	0.0016
315	0	Correlation	0.671	0.6727	0.0017
316	0	Correlation	0.6883	0.6888	0.0005
317	0	Correlation	0.6986	0.6988	0.0002

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.671	0.68597	0.6986	0.013947	0.6727	0.68677	0.6988	0.013168	0.0002	0.0008	0.0017	0.00079373
1e+12	0.6714	0.6796	0.6874	0.007621	0.6728	0.6806	0.6885	0.0076215	0.0005	0.001	0.0014	0.00037417
5e+12	0.6716	0.68005	0.6873	0.0073605	0.6715	0.68005	0.6875	0.0073305	-0.0004	-2.7756e-17	0.0003	0.00031623
1e+13	0.6682	0.68205	0.6895	0.010065	0.6682	0.68245	0.6911	0.01038	-0.0004	0.0004	0.0016	0.0008641

Device Test: 5.13; PROPD_PWRGD





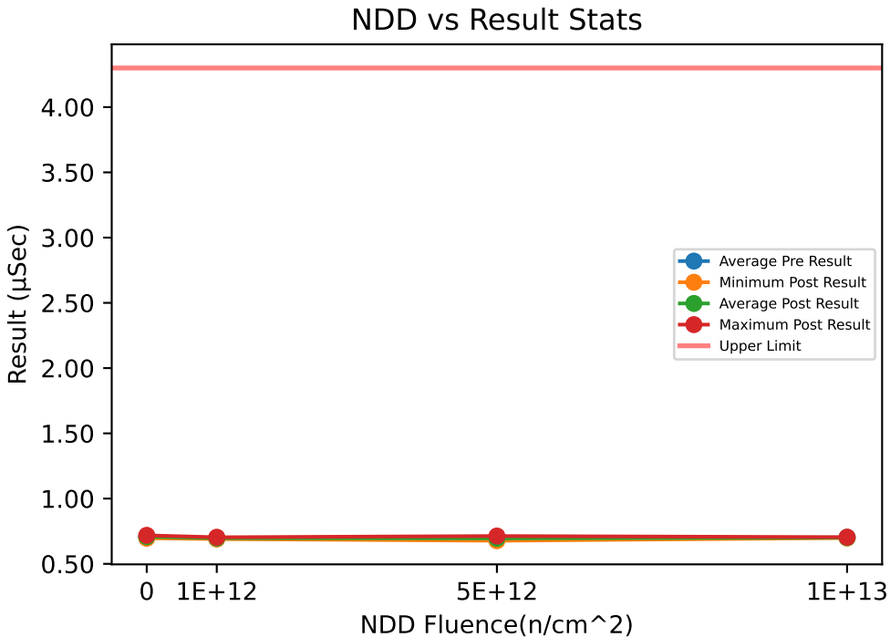
Test Results (Upper Limit = 4.3 (µSec))

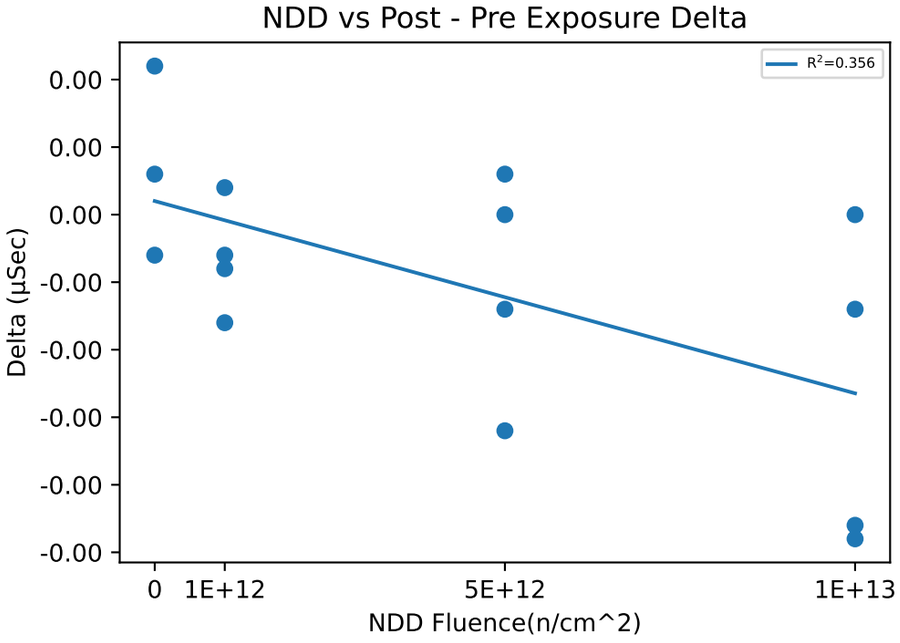
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7059	0.7061	0.0002
304	1e+12	NDD Unbiased	0.708	0.7079	-0.0001
305	1e+12	NDD Unbiased	0.7017	0.7012	-0.0005
306	1e+12	NDD Unbiased	0.7084	0.7092	0.0008
307	5e+12	NDD Unbiased	0.7089	0.7082	-0.0007
308	5e+12	NDD Unbiased	0.6983	0.6978	-0.0005
309	5e+12	NDD Unbiased	0.7147	0.7149	0.0002
310	5e+12	NDD Unbiased	0.6994	0.6983	-0.0011
311	1e+13	NDD Unbiased	0.7077	0.7072	-0.0005
312	1e+13	NDD Unbiased	0.7074	0.7077	0.0003
313	1e+13	NDD Unbiased	0.7008	0.7	-0.0008
314	1e+13	NDD Unbiased	0.7073	0.7069	-0.0004
315	0	Correlation	0.7054	0.7063	0.0009
316	0	Correlation	0.7002	0.7013	0.0011
317	0	Correlation	0.7199	0.7203	0.0004

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7002	0.7085	0.7199	0.010209	0.7013	0.7093	0.7203	0.0098489	0.0004	0.0008	0.0011	0.00036056
1e+12	0.7017	0.706	0.7084	0.0030692	0.7012	0.7061	0.7092	0.0035052	-0.0005	0.0001	0.0008	0.00054772
5e+12	0.6983	0.70532	0.7147	0.0078555	0.6978	0.7048	0.7149	0.0082628	-0.0011	-0.000525	0.0002	0.00054391
1e+13	0.7008	0.7058	0.7077	0.0033377	0.7	0.70545	0.7077	0.0036483	-0.0008	-0.00035	0.0003	0.00046547

Device Test: 5.14; PROPD_RESET





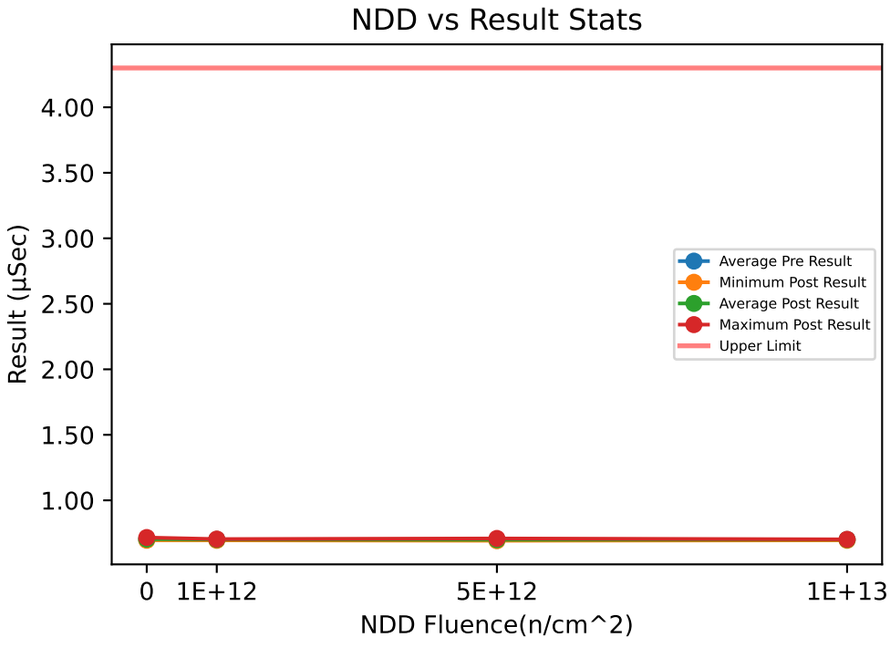
Test Results (Upper Limit = 4.3 (µSec))

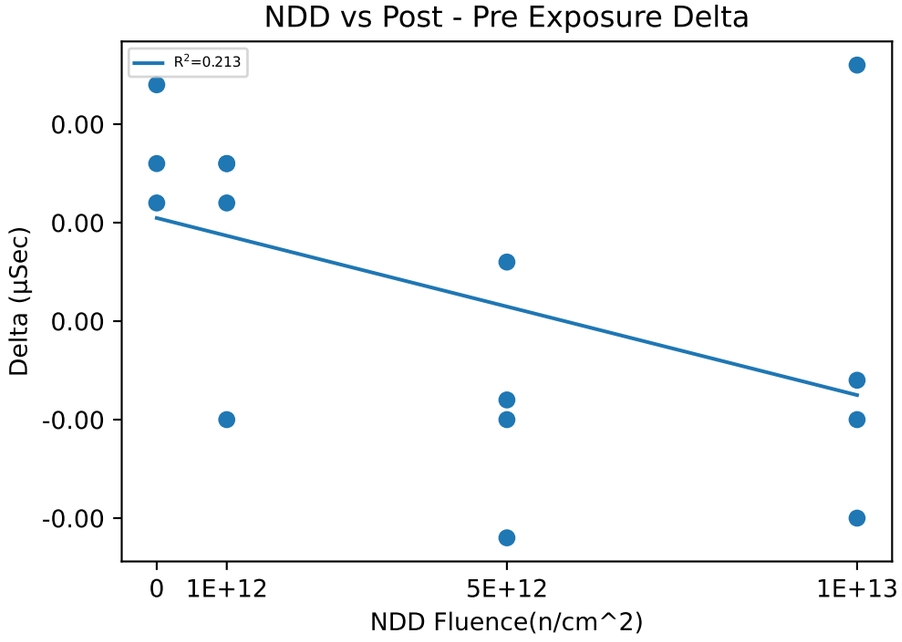
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7035	0.7037	0.0002
304	1e+12	NDD Unbiased	0.694	0.6932	-0.0008
305	1e+12	NDD Unbiased	0.7013	0.701	-0.0003
306	1e+12	NDD Unbiased	0.6905	0.6901	-0.0004
307	5e+12	NDD Unbiased	0.6986	0.6979	-0.0007
308	5e+12	NDD Unbiased	0.7131	0.7131	0
309	5e+12	NDD Unbiased	0.6788	0.6772	-0.0016
310	5e+12	NDD Unbiased	0.6925	0.6928	0.0003
311	1e+13	NDD Unbiased	0.703	0.7023	-0.0007
312	1e+13	NDD Unbiased	0.7004	0.6981	-0.0023
313	1e+13	NDD Unbiased	0.7069	0.7045	-0.0024
314	1e+13	NDD Unbiased	0.6985	0.6985	0
315	0	Correlation	0.6951	0.6962	0.0011
316	0	Correlation	0.7088	0.7091	0.0003
317	0	Correlation	0.7186	0.7183	-0.0003

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6951	0.7075	0.7186	0.011804	0.6962	0.70787	0.7183	0.011102	-0.0003	0.00036667	0.0011	0.00070238
1e+12	0.6905	0.69732	0.7035	0.0060983	0.6901	0.697	0.7037	0.0064016	-0.0008	-0.000325	0.0002	0.0004113
5e+12	0.6788	0.69575	0.7131	0.014225	0.6772	0.69525	0.7131	0.014804	-0.0016	-0.0005	0.0003	0.00084459
1e+13	0.6985	0.7022	0.7069	0.0036359	0.6981	0.70085	0.7045	0.0030827	-0.0024	-0.00135	0	0.0011902

Device Test: 5.15; PROPD_RESET





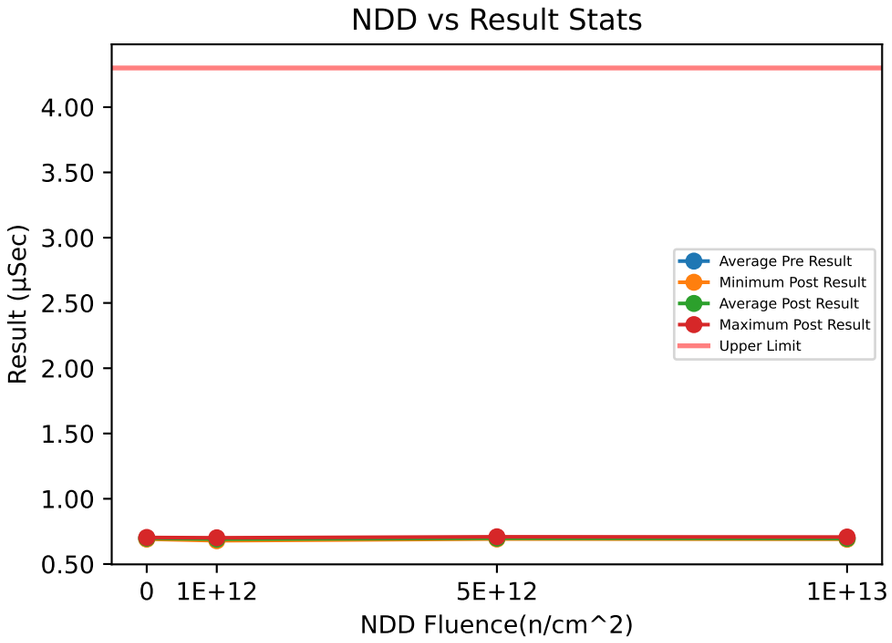
Test Results (Upper Limit = 4.3 (µSec))

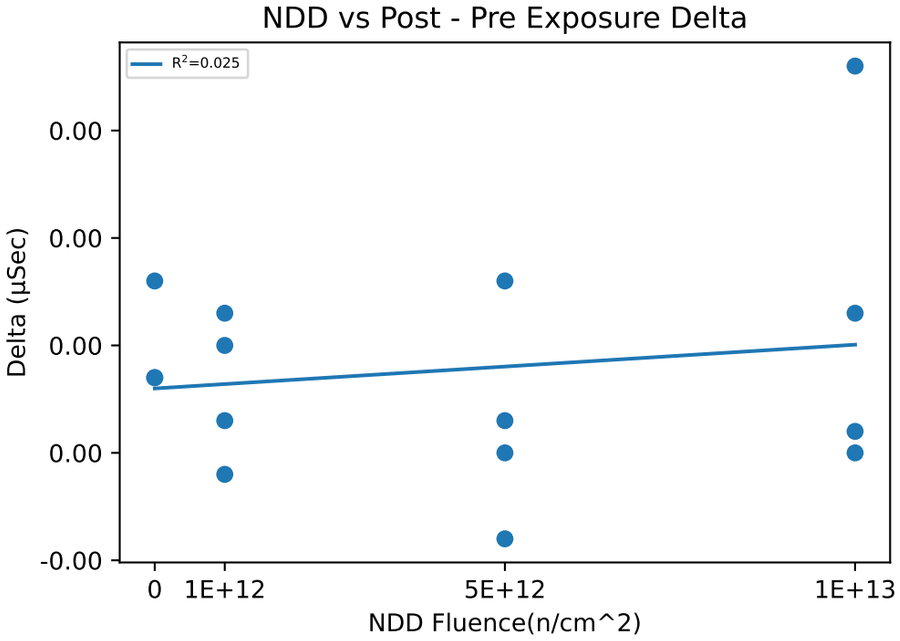
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7009	0.7015	0.0006
304	1e+12	NDD Unbiased	0.7035	0.7043	0.0008
305	1e+12	NDD Unbiased	0.6952	0.6947	-0.0005
306	1e+12	NDD Unbiased	0.7014	0.7022	0.0008
307	5e+12	NDD Unbiased	0.7043	0.7038	-0.0005
308	5e+12	NDD Unbiased	0.6925	0.6928	0.0003
309	5e+12	NDD Unbiased	0.7094	0.709	-0.0004
310	5e+12	NDD Unbiased	0.6928	0.6917	-0.0011
311	1e+13	NDD Unbiased	0.7022	0.7017	-0.0005
312	1e+13	NDD Unbiased	0.7009	0.7022	0.0013
313	1e+13	NDD Unbiased	0.6952	0.6949	-0.0003
314	1e+13	NDD Unbiased	0.7027	0.7017	-0.001
315	0	Correlation	0.6988	0.7	0.0012
316	0	Correlation	0.6943	0.6951	0.0008
317	0	Correlation	0.7154	0.716	0.0006

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6943	0.70283	0.7154	0.011113	0.6951	0.7037	0.716	0.01093	0.0006	0.00086667	0.0012	0.00030551
1e+12	0.6952	0.70025	0.7035	0.0035501	0.6947	0.70068	0.7043	0.0041572	-0.0005	0.000425	0.0008	0.00062383
5e+12	0.6925	0.69975	0.7094	0.0084595	0.6917	0.69932	0.709	0.0084528	-0.0011	-0.000425	0.0003	0.00057373
1e+13	0.6952	0.70025	0.7027	0.0034511	0.6949	0.70012	0.7022	0.0034913	-0.001	-0.000125	0.0013	0.00099457

Device Test: 5.16; PROPD_RESET





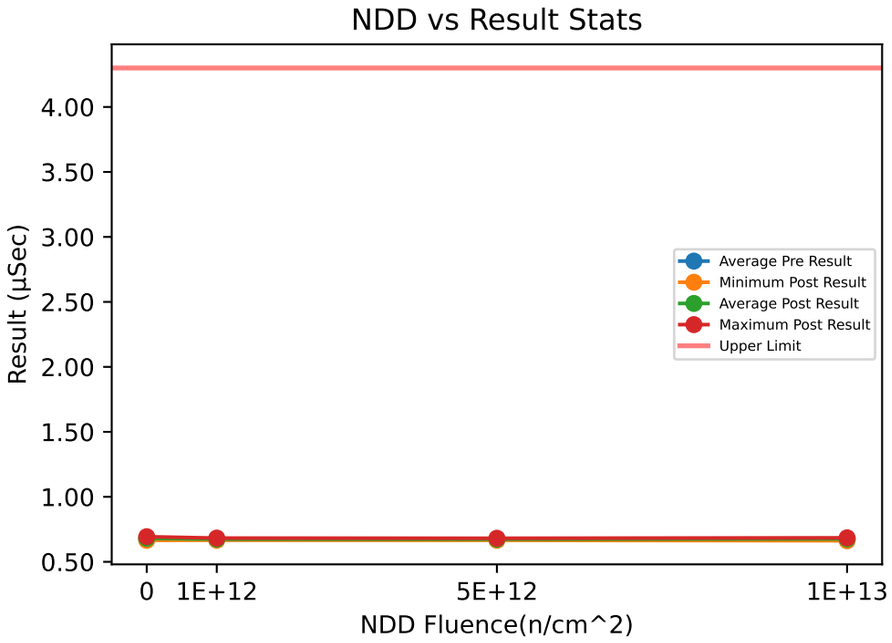
Test Results (Upper Limit = 4.3 (µSec))

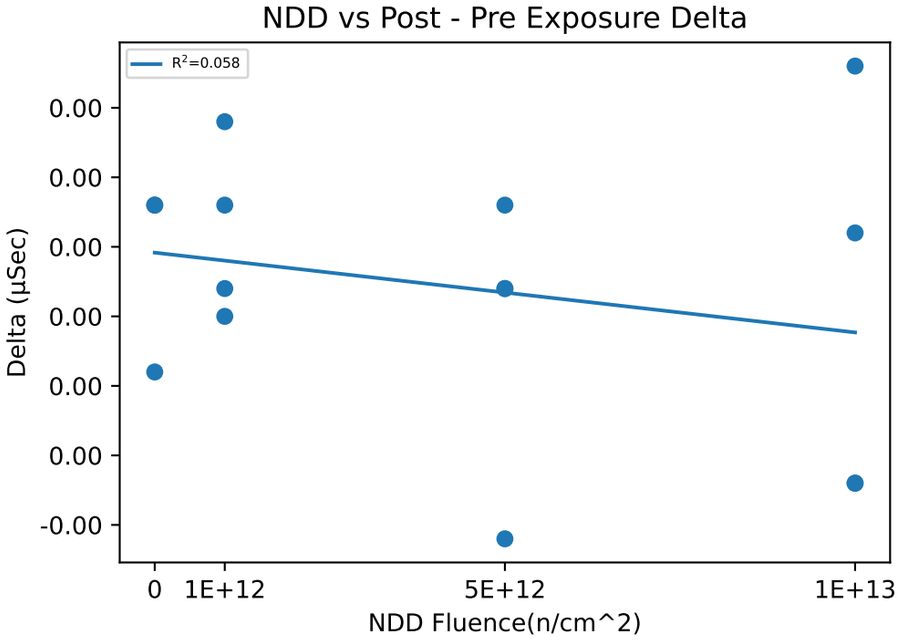
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6998	0.7011	0.0013
304	1e+12	NDD Unbiased	0.6933	0.6936	0.0003
305	1e+12	NDD Unbiased	0.6898	0.6896	-0.0002
306	1e+12	NDD Unbiased	0.6776	0.6786	0.001
307	5e+12	NDD Unbiased	0.6939	0.6942	0.0003
308	5e+12	NDD Unbiased	0.7087	0.7087	0
309	5e+12	NDD Unbiased	0.6951	0.6967	0.0016
310	5e+12	NDD Unbiased	0.6926	0.6918	-0.0008
311	1e+13	NDD Unbiased	0.6933	0.6946	0.0013
312	1e+13	NDD Unbiased	0.6876	0.6912	0.0036
313	1e+13	NDD Unbiased	0.6897	0.6899	0.0002
314	1e+13	NDD Unbiased	0.7069	0.7069	0
315	0	Correlation	0.6893	0.6909	0.0016
316	0	Correlation	0.7028	0.7035	0.0007
317	0	Correlation	0.6984	0.6991	0.0007

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6893	0.69683	0.7028	0.006885	0.6909	0.69783	0.7035	0.0063948	0.0007	0.001	0.0016	0.00051962
1e+12	0.6776	0.69012	0.6998	0.0093214	0.6786	0.69073	0.7011	0.0093842	-0.0002	0.0006	0.0013	0.00067823
5e+12	0.6926	0.69758	0.7087	0.0074866	0.6918	0.69785	0.7087	0.0075049	-0.0008	0.000275	0.0016	0.00099791
1e+13	0.6876	0.69437	0.7069	0.0086754	0.6899	0.69565	0.7069	0.0077574	0	0.001275	0.0036	0.001652

Device Test: 5.17; PROPD_RESET





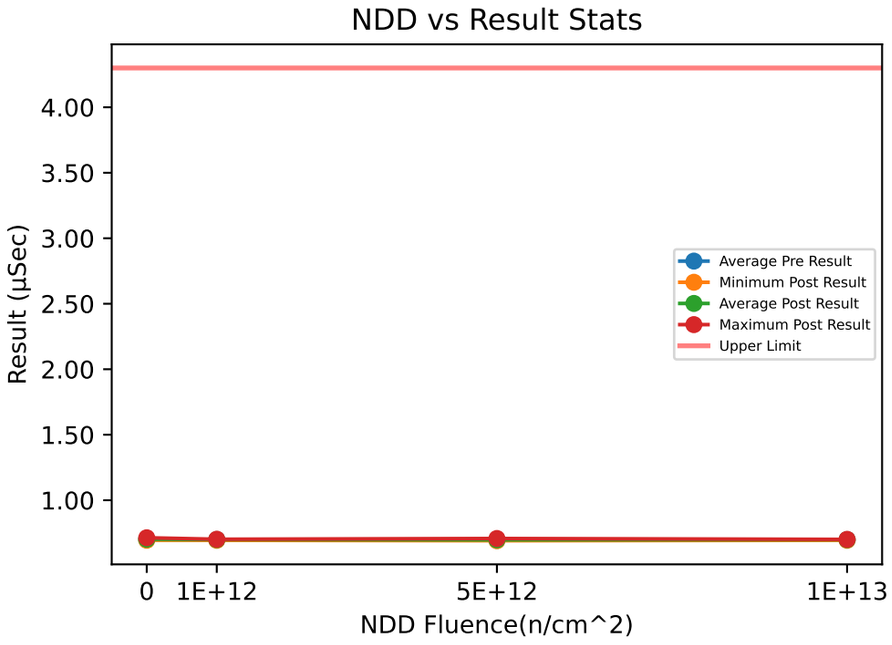
Test Results (Upper Limit = 4.3 (µSec))

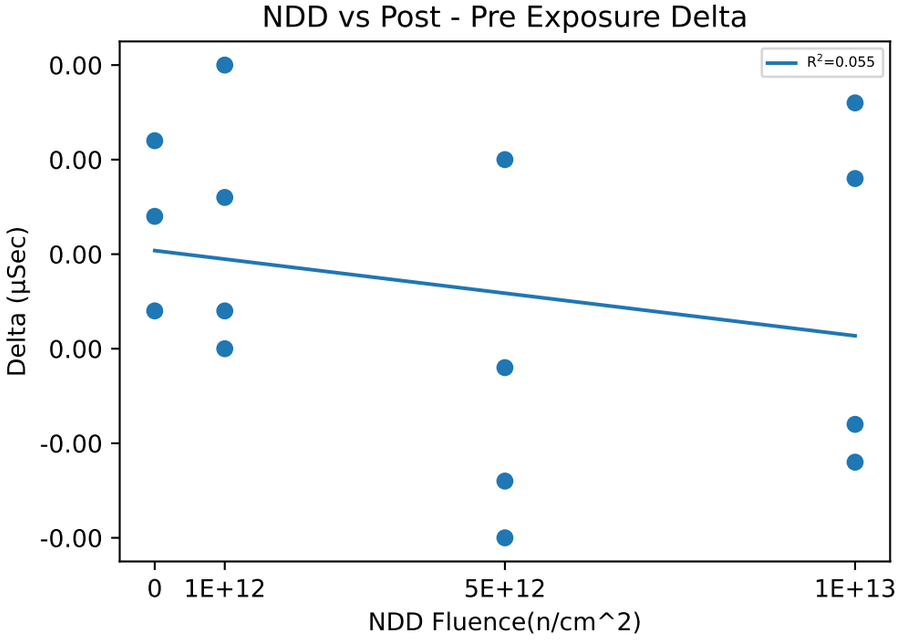
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6813	0.6825	0.0012
304	1e+12	NDD Unbiased	0.6686	0.6692	0.0006
305	1e+12	NDD Unbiased	0.6783	0.6792	0.0009
306	1e+12	NDD Unbiased	0.6656	0.6661	0.0005
307	5e+12	NDD Unbiased	0.6698	0.6707	0.0009
308	5e+12	NDD Unbiased	0.6806	0.6812	0.0006
309	5e+12	NDD Unbiased	0.6787	0.6784	-0.0003
310	5e+12	NDD Unbiased	0.6651	0.6657	0.0006
311	1e+13	NDD Unbiased	0.6828	0.6827	-0.0001
312	1e+13	NDD Unbiased	0.6746	0.6754	0.0008
313	1e+13	NDD Unbiased	0.6624	0.6623	-0.0001
314	1e+13	NDD Unbiased	0.6831	0.6845	0.0014
315	0	Correlation	0.6647	0.6656	0.0009
316	0	Correlation	0.6826	0.6829	0.0003
317	0	Correlation	0.6923	0.6932	0.0009

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6647	0.67987	0.6923	0.014002	0.6656	0.68057	0.6932	0.013947	0.0003	0.0007	0.0009	0.00034641
1e+12	0.6656	0.67345	0.6813	0.0075341	0.6661	0.67425	0.6825	0.007842	0.0005	0.0008	0.0012	0.00031623
5e+12	0.6651	0.67355	0.6806	0.0073414	0.6657	0.674	0.6812	0.0070941	-0.0003	0.00045	0.0009	0.00051962
1e+13	0.6624	0.67573	0.6831	0.0097171	0.6623	0.67622	0.6845	0.010083	-0.0001	0.0005	0.0014	0.00073485

Device Test: 5.18; PROPD_PWRGD





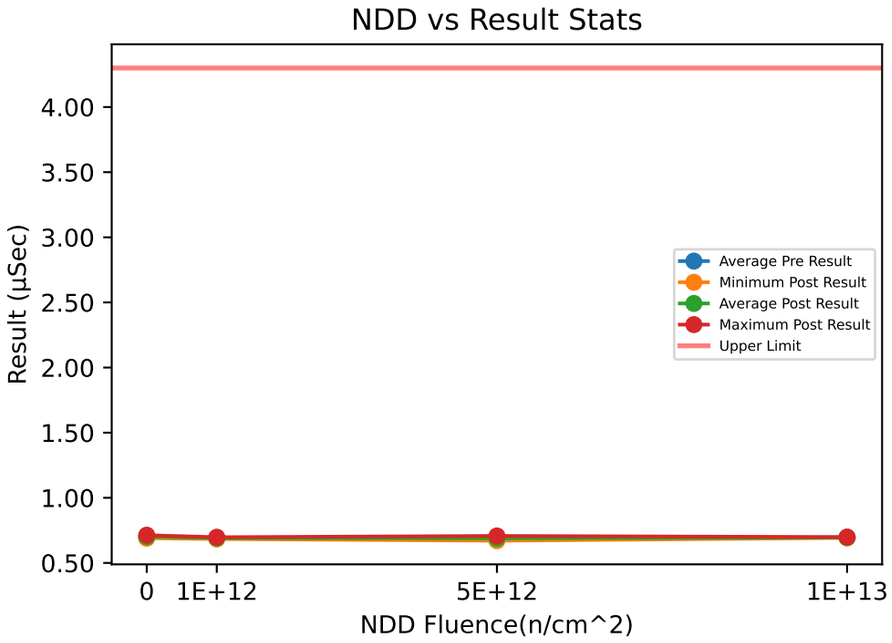
Test Results (Upper Limit = 4.3 (µSec))

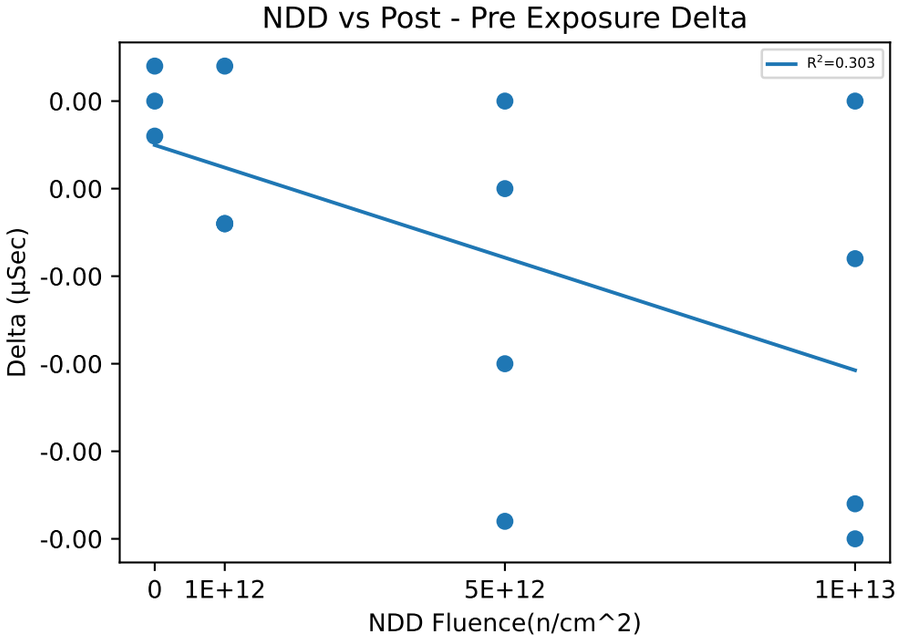
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6996	0.7004	0.0008
304	1e+12	NDD Unbiased	0.7009	0.7011	0.0002
305	1e+12	NDD Unbiased	0.694	0.694	0
306	1e+12	NDD Unbiased	0.7005	0.702	0.0015
307	5e+12	NDD Unbiased	0.7014	0.7004	-0.001
308	5e+12	NDD Unbiased	0.6898	0.6908	0.001
309	5e+12	NDD Unbiased	0.7077	0.7076	-0.0001
310	5e+12	NDD Unbiased	0.6924	0.6917	-0.0007
311	1e+13	NDD Unbiased	0.7006	0.7	-0.0006
312	1e+13	NDD Unbiased	0.6997	0.701	0.0013
313	1e+13	NDD Unbiased	0.6945	0.6941	-0.0004
314	1e+13	NDD Unbiased	0.6996	0.7005	0.0009
315	0	Correlation	0.6981	0.6988	0.0007
316	0	Correlation	0.6933	0.6944	0.0011
317	0	Correlation	0.7131	0.7133	0.0002

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6933	0.7015	0.7131	0.010329	0.6944	0.70217	0.7133	0.0098896	0.0002	0.00066667	0.0011	0.00045092
1e+12	0.694	0.69875	0.7009	0.003213	0.694	0.69937	0.702	0.0036427	0	0.000625	0.0015	0.00067515
5e+12	0.6898	0.69783	0.7077	0.0082488	0.6908	0.69762	0.7076	0.0079349	-0.001	-0.0002	0.001	0.00088318
1e+13	0.6945	0.6986	0.7006	0.0027701	0.6941	0.6989	0.701	0.0032259	-0.0006	0.0003	0.0013	0.00094163

Device Test: 5.19; PROPD_RESET





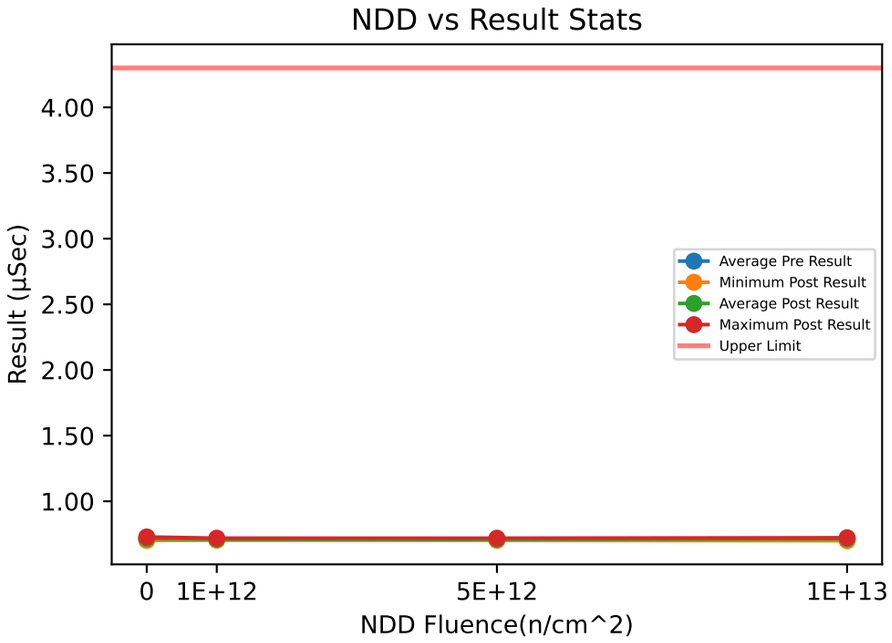
Test Results (Upper Limit = 4.3 (µSec))

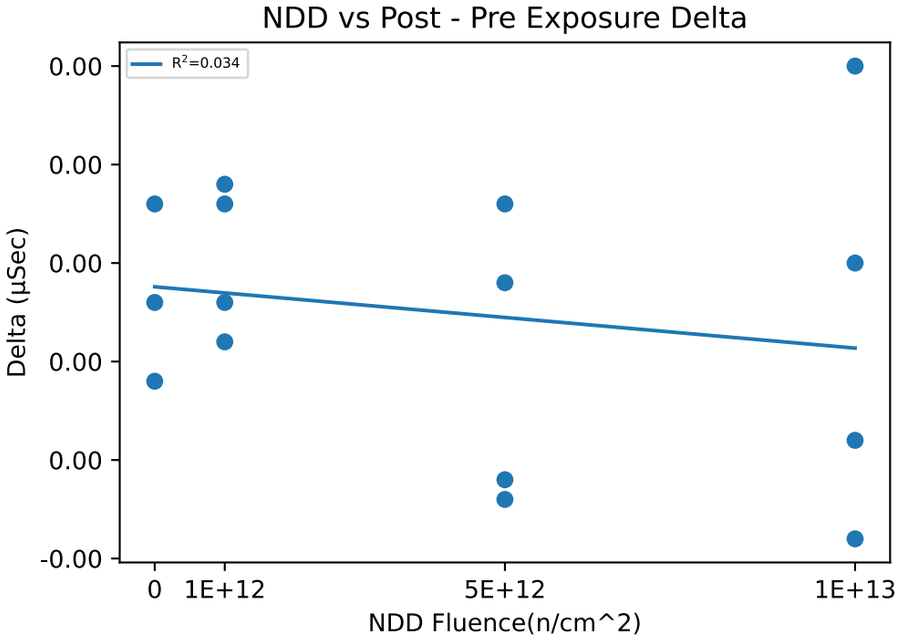
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6966	0.6973	0.0007
304	1e+12	NDD Unbiased	0.6877	0.6875	-0.0002
305	1e+12	NDD Unbiased	0.6954	0.6952	-0.0002
306	1e+12	NDD Unbiased	0.6841	0.6839	-0.0002
307	5e+12	NDD Unbiased	0.6929	0.6919	-0.001
308	5e+12	NDD Unbiased	0.7072	0.7072	0
309	5e+12	NDD Unbiased	0.6724	0.6705	-0.0019
310	5e+12	NDD Unbiased	0.6859	0.6864	0.0005
311	1e+13	NDD Unbiased	0.6963	0.6959	-0.0004
312	1e+13	NDD Unbiased	0.6943	0.6925	-0.0018
313	1e+13	NDD Unbiased	0.7004	0.6984	-0.002
314	1e+13	NDD Unbiased	0.6924	0.6929	0.0005
315	0	Correlation	0.6891	0.6898	0.0007
316	0	Correlation	0.7023	0.7028	0.0005
317	0	Correlation	0.7127	0.713	0.0003

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6891	0.70137	0.7127	0.011828	0.6898	0.70187	0.713	0.011628	0.0003	0.0005	0.0007	0.0002
1e+12	0.6841	0.69095	0.6966	0.0060335	0.6839	0.69098	0.6973	0.0063242	-0.0002	2.5e-05	0.0007	0.00045
5e+12	0.6724	0.6896	0.7072	0.014493	0.6705	0.689	0.7072	0.015151	-0.0019	-0.0006	0.0005	0.0010677
1e+13	0.6924	0.69585	0.7004	0.0034259	0.6925	0.69493	0.6984	0.0027693	-0.002	-0.000925	0.0005	0.0011871

Device Test: 5.2; PROPD_RESET





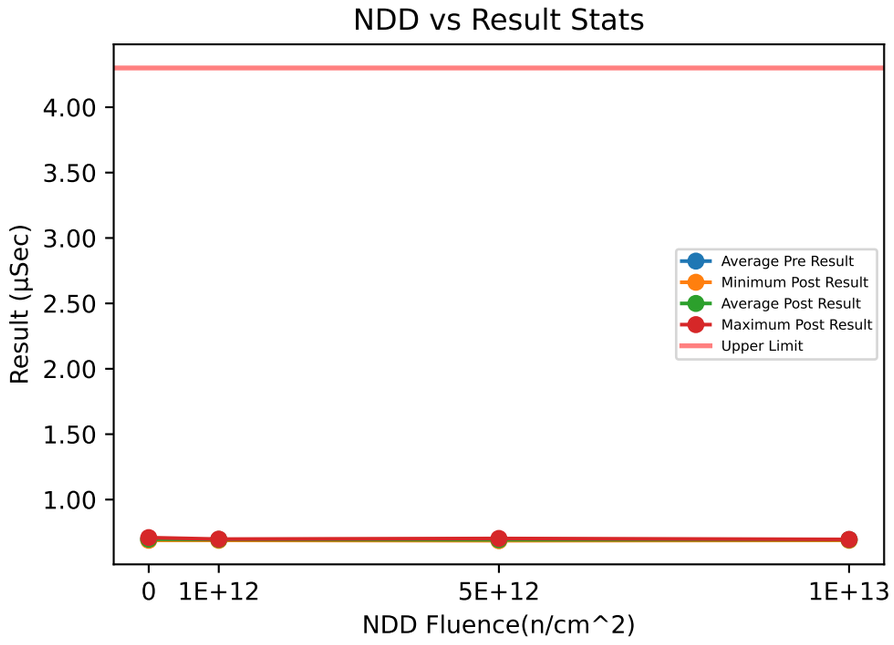
Test Results (Upper Limit = 4.3 (µSec))

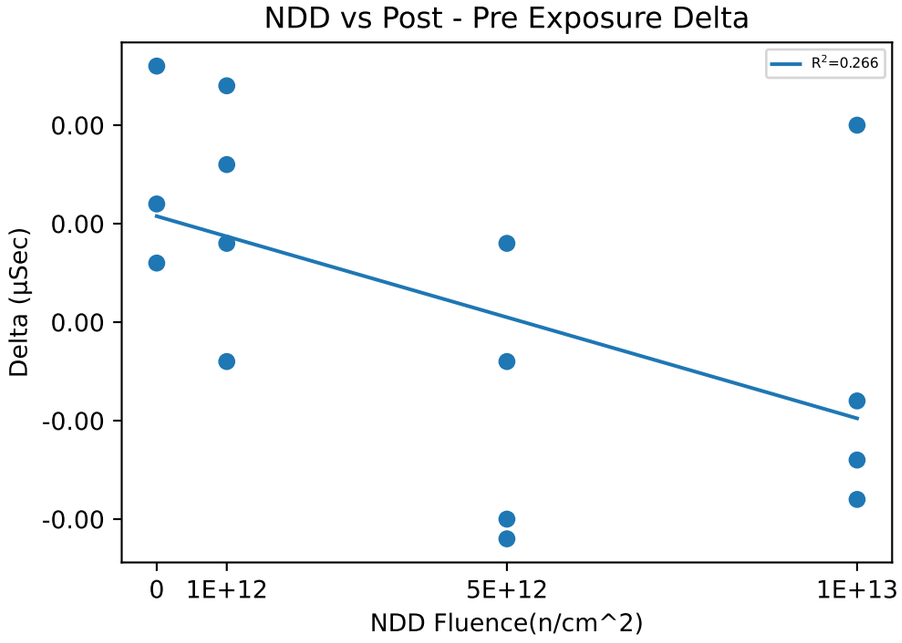
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7186	0.7192	0.0006
304	1e+12	NDD Unbiased	0.7051	0.7065	0.0014
305	1e+12	NDD Unbiased	0.7157	0.7165	0.0008
306	1e+12	NDD Unbiased	0.7021	0.7034	0.0013
307	5e+12	NDD Unbiased	0.7077	0.7076	-0.0001
308	5e+12	NDD Unbiased	0.7177	0.719	0.0013
309	5e+12	NDD Unbiased	0.7157	0.7155	-0.0002
310	5e+12	NDD Unbiased	0.7017	0.7026	0.0009
311	1e+13	NDD Unbiased	0.7193	0.7194	0.0001
312	1e+13	NDD Unbiased	0.7123	0.7133	0.001
313	1e+13	NDD Unbiased	0.7002	0.6998	-0.0004
314	1e+13	NDD Unbiased	0.7203	0.7223	0.002
315	0	Correlation	0.7006	0.7019	0.0013
316	0	Correlation	0.7181	0.7189	0.0008
317	0	Correlation	0.728	0.7284	0.0004

Test Statistics (µSec)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7006	0.71557	0.728	0.013875	0.7019	0.7164	0.7284	0.013426	0.0004	0.00083333	0.0013	0.00045092
1e+12	0.7021	0.71037	0.7186	0.0080064	0.7034	0.7114	0.7192	0.0076346	0.0006	0.001025	0.0014	0.00038622
5e+12	0.7017	0.7107	0.7177	0.0073937	0.7026	0.71118	0.719	0.0074442	-0.0002	0.000475	0.0013	0.00074106
1e+13	0.7002	0.71303	0.7203	0.0092612	0.6998	0.7137	0.7223	0.009997	-0.0004	0.000675	0.002	0.0010563

Device Test: 5.20; PROPD_RESET





Test Results (Upper Limit = 4.3 (µSec))

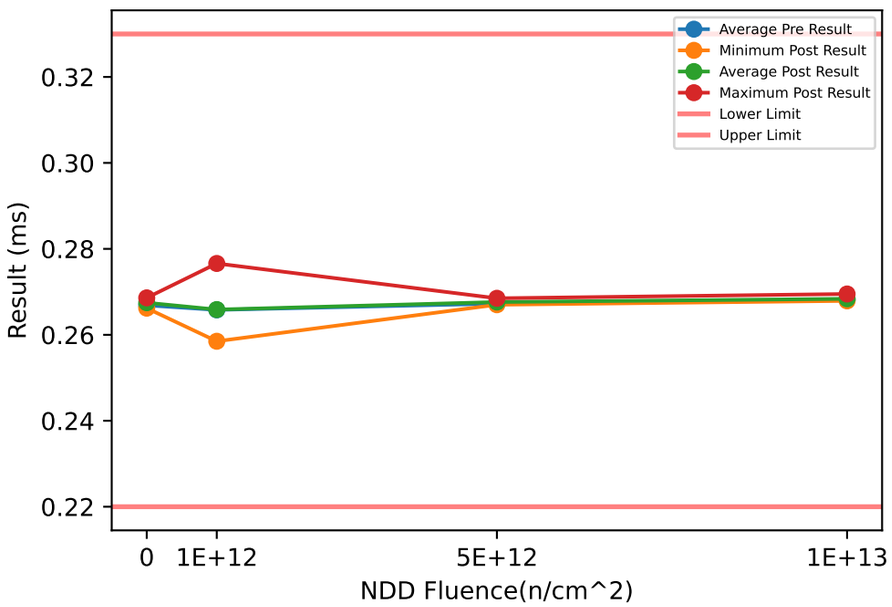
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.6946	0.6954	0.0008
304	1e+12	NDD Unbiased	0.6966	0.6978	0.0012
305	1e+12	NDD Unbiased	0.6885	0.6883	-0.0002
306	1e+12	NDD Unbiased	0.6956	0.696	0.0004
307	5e+12	NDD Unbiased	0.6978	0.6967	-0.0011
308	5e+12	NDD Unbiased	0.686	0.6864	0.0004
309	5e+12	NDD Unbiased	0.7029	0.7027	-0.0002
310	5e+12	NDD Unbiased	0.6864	0.6854	-0.001
311	1e+13	NDD Unbiased	0.6959	0.695	-0.0009
312	1e+13	NDD Unbiased	0.6945	0.6955	0.001
313	1e+13	NDD Unbiased	0.6891	0.6884	-0.0007
314	1e+13	NDD Unbiased	0.6955	0.6951	-0.0004
315	0	Correlation	0.6922	0.6935	0.0013
316	0	Correlation	0.6879	0.6885	0.0006
317	0	Correlation	0.7088	0.7091	0.0003

Test Statistics (µSec)

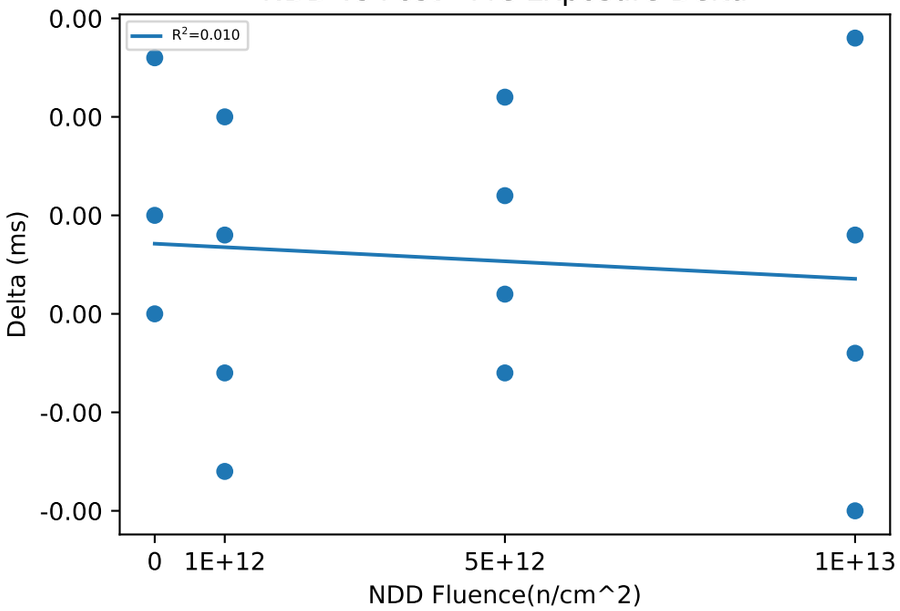
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6879	0.6963	0.7088	0.011037	0.6885	0.69703	0.7091	0.010745	0.0003	0.00073333	0.0013	0.00051316
1e+12	0.6885	0.69383	0.6966	0.0036427	0.6883	0.69437	0.6978	0.0041764	-0.0002	0.00055	0.0012	0.00059722
5e+12	0.686	0.69327	0.7029	0.0084322	0.6854	0.6928	0.7027	0.0083455	-0.0011	-0.000475	0.0004	0.00070887
1e+13	0.6891	0.69375	0.6959	0.0031554	0.6884	0.6935	0.6955	0.0034069	-0.0009	-0.00025	0.001	0.00085829

Device Test: 5.21; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

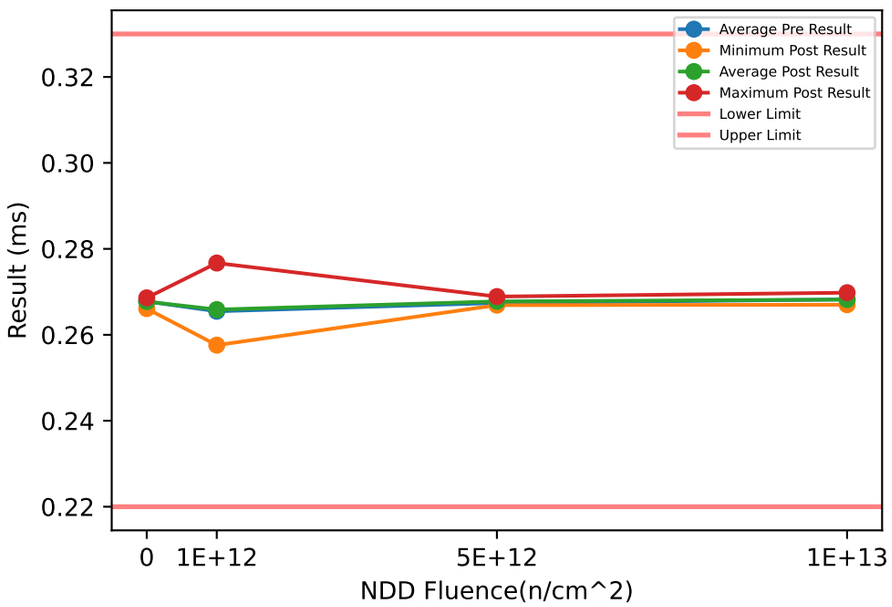
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2677	0.2674	-0.0003
304	1e+12	NDD Unbiased	0.2618	0.261	-0.0008
305	1e+12	NDD Unbiased	0.2756	0.2766	0.001
306	1e+12	NDD Unbiased	0.2581	0.2585	0.0004
307	5e+12	NDD Unbiased	0.2673	0.267	-0.0003
308	5e+12	NDD Unbiased	0.2679	0.2685	0.0006
309	5e+12	NDD Unbiased	0.2669	0.267	0.0001
310	5e+12	NDD Unbiased	0.2669	0.268	0.0011
311	1e+13	NDD Unbiased	0.2665	0.2679	0.0014
312	1e+13	NDD Unbiased	0.2678	0.2682	0.0004
313	1e+13	NDD Unbiased	0.2705	0.2695	-0.001
314	1e+13	NDD Unbiased	0.2681	0.2679	-0.0002
315	0	Correlation	0.2676	0.2676	0
316	0	Correlation	0.2673	0.2686	0.0013
317	0	Correlation	0.2657	0.2662	0.0005

Test Statistics (ms)

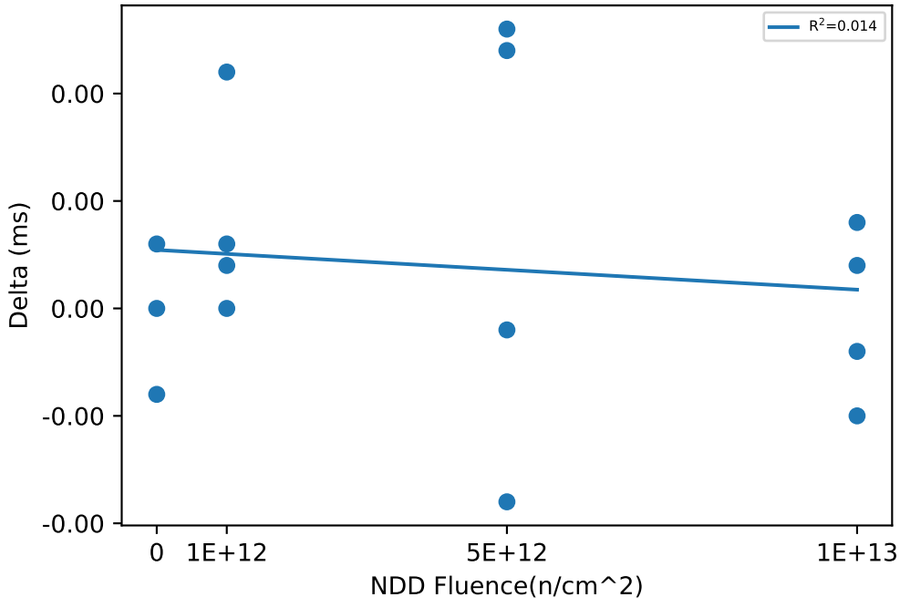
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2657	0.26687	0.2676	0.0010214	0.2662	0.26747	0.2686	0.0012055	0	0.0006	0.0013	0.00065574
1e+12	0.2581	0.2658	0.2756	0.0076363	0.2585	0.26588	0.2766	0.0080727	-0.0008	7.5e-05	0.001	0.00078899
5e+12	0.2669	0.26725	0.2679	0.00047258	0.267	0.26763	0.2685	0.00075	-0.0003	0.000375	0.0011	0.00060759
1e+13	0.2665	0.26822	0.2705	0.0016681	0.2679	0.26838	0.2695	0.00076322	-0.001	0.00015	0.0014	0.0010116

Device Test: 5.22; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

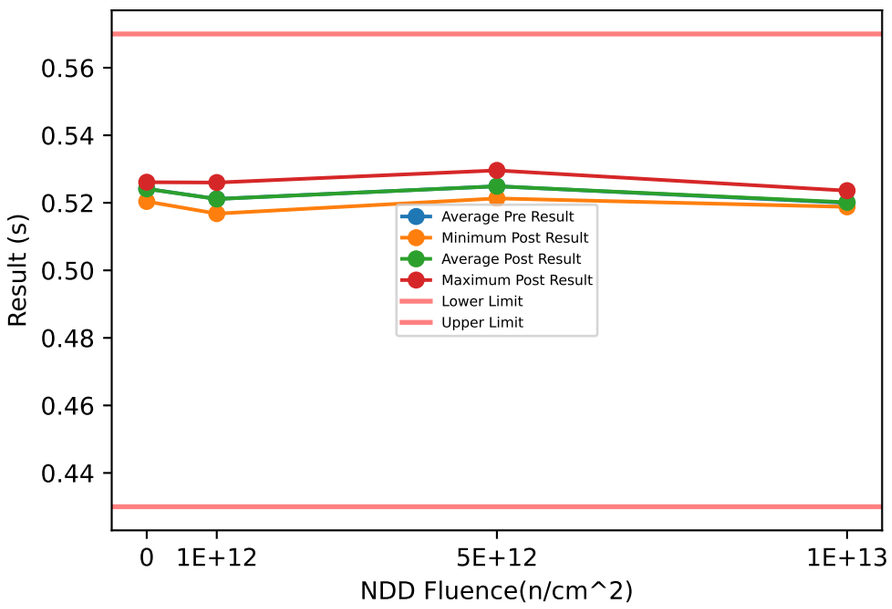
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2665	0.2676	0.0011
304	1e+12	NDD Unbiased	0.2614	0.2616	0.0002
305	1e+12	NDD Unbiased	0.2767	0.2767	0
306	1e+12	NDD Unbiased	0.2573	0.2576	0.0003
307	5e+12	NDD Unbiased	0.267	0.2669	-0.0001
308	5e+12	NDD Unbiased	0.2686	0.2677	-0.0009
309	5e+12	NDD Unbiased	0.2676	0.2689	0.0013
310	5e+12	NDD Unbiased	0.2664	0.2676	0.0012
311	1e+13	NDD Unbiased	0.2666	0.267	0.0004
312	1e+13	NDD Unbiased	0.2686	0.2681	-0.0005
313	1e+13	NDD Unbiased	0.27	0.2698	-0.0002
314	1e+13	NDD Unbiased	0.2677	0.2679	0.0002
315	0	Correlation	0.2685	0.2685	0
316	0	Correlation	0.269	0.2686	-0.0004
317	0	Correlation	0.2658	0.2661	0.0003

Test Statistics (ms)

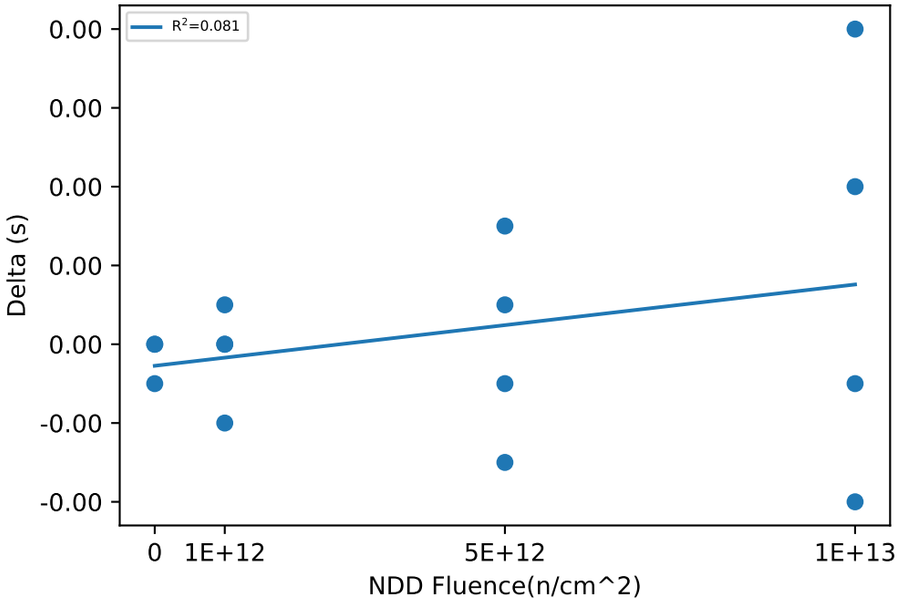
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2658	0.26777	0.269	0.0017214	0.2661	0.26773	0.2686	0.0014154	-0.0004	-3.3333e-05	0.0003	0.00035119
1e+12	0.2573	0.26548	0.2767	0.0083763	0.2576	0.26587	0.2767	0.0083048	0	0.0004	0.0011	0.00048305
5e+12	0.2664	0.2674	0.2686	0.00093808	0.2669	0.26777	0.2689	0.00083016	-0.0009	0.000375	0.0013	0.0010626
1e+13	0.2666	0.26822	0.27	0.0014385	0.267	0.2682	0.2698	0.001169	-0.0005	-2.5e-05	0.0004	0.00040311

Device Test: 5.23; WD_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.43, Upper Limit = 0.57 (s))

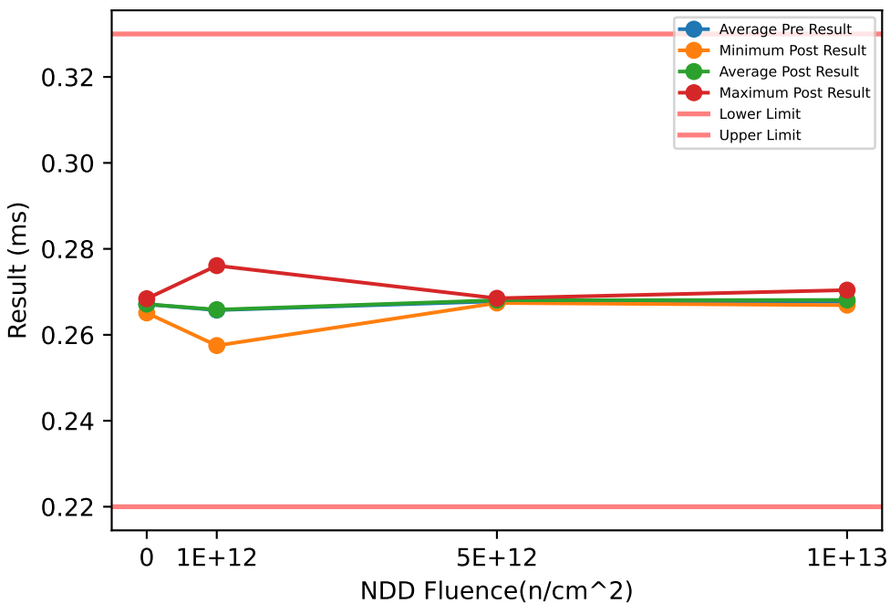
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.517	0.5168	-0.0002
304	1e+12	NDD Unbiased	0.5235	0.5235	0
305	1e+12	NDD Unbiased	0.5259	0.526	0.0001
306	1e+12	NDD Unbiased	0.5182	0.5182	0
307	5e+12	NDD Unbiased	0.5299	0.5296	-0.0003
308	5e+12	NDD Unbiased	0.5214	0.5213	-0.0001
309	5e+12	NDD Unbiased	0.522	0.5223	0.0003
310	5e+12	NDD Unbiased	0.5263	0.5264	0.0001
311	1e+13	NDD Unbiased	0.5191	0.519	-0.0001
312	1e+13	NDD Unbiased	0.518	0.5188	0.0008
313	1e+13	NDD Unbiased	0.5196	0.5192	-0.0004
314	1e+13	NDD Unbiased	0.5232	0.5236	0.0004
315	0	Correlation	0.5205	0.5204	-0.0001
316	0	Correlation	0.5261	0.5261	0
317	0	Correlation	0.5259	0.5259	0

Test Statistics (s)

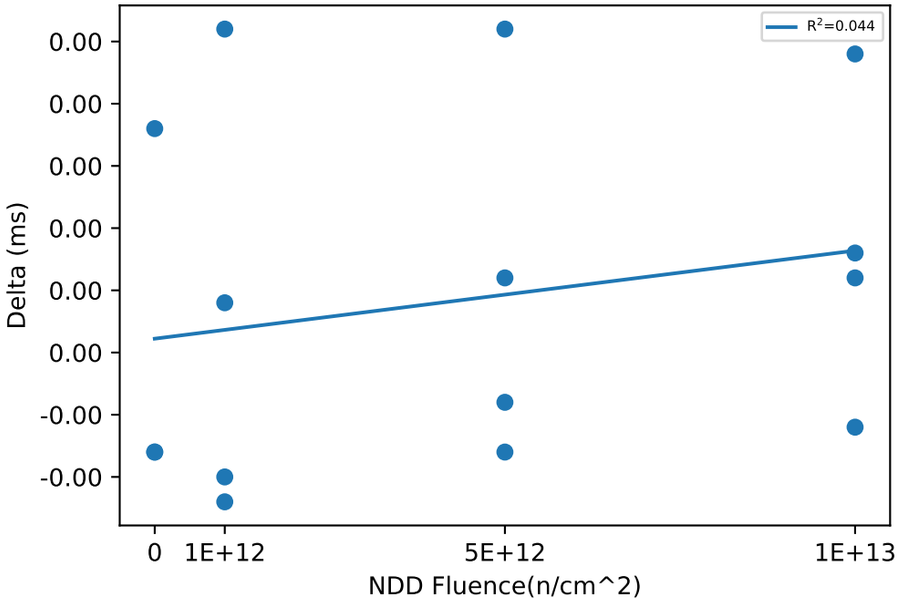
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5205	0.52417	0.5261	0.003177	0.5204	0.52413	0.5261	0.0032347	-0.0001	-3.3333e-05	0	5.7735e-05
1e+12	0.517	0.52115	0.5259	0.004243	0.5168	0.52113	0.526	0.0043462	-0.0002	-2.5e-05	0.0001	0.00012583
5e+12	0.5214	0.5249	0.5299	0.0039841	0.5213	0.5249	0.5296	0.0038323	-0.0003	-2.7756e-17	0.0003	0.0002582
1e+13	0.518	0.51997	0.5232	0.0022515	0.5188	0.52015	0.5236	0.0023058	-0.0004	0.000175	0.0008	0.00053151

Device Test: 5.24; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

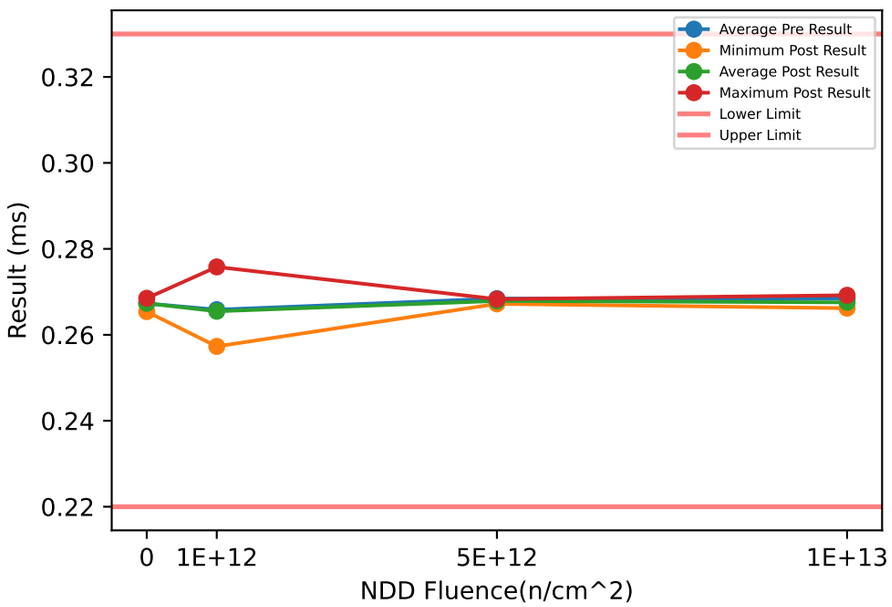
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2665	0.2678	0.0013
304	1e+12	NDD Unbiased	0.2625	0.262	-0.0005
305	1e+12	NDD Unbiased	0.2759	0.2761	0.0002
306	1e+12	NDD Unbiased	0.2581	0.2575	-0.0006
307	5e+12	NDD Unbiased	0.2682	0.2685	0.0003
308	5e+12	NDD Unbiased	0.2683	0.2681	-0.0002
309	5e+12	NDD Unbiased	0.2669	0.2682	0.0013
310	5e+12	NDD Unbiased	0.2678	0.2674	-0.0004
311	1e+13	NDD Unbiased	0.2665	0.2669	0.0004
312	1e+13	NDD Unbiased	0.2674	0.2677	0.0003
313	1e+13	NDD Unbiased	0.2692	0.2704	0.0012
314	1e+13	NDD Unbiased	0.2677	0.2674	-0.0003
315	0	Correlation	0.2675	0.2684	0.0009
316	0	Correlation	0.2683	0.2679	-0.0004
317	0	Correlation	0.2655	0.2651	-0.0004

Test Statistics (ms)

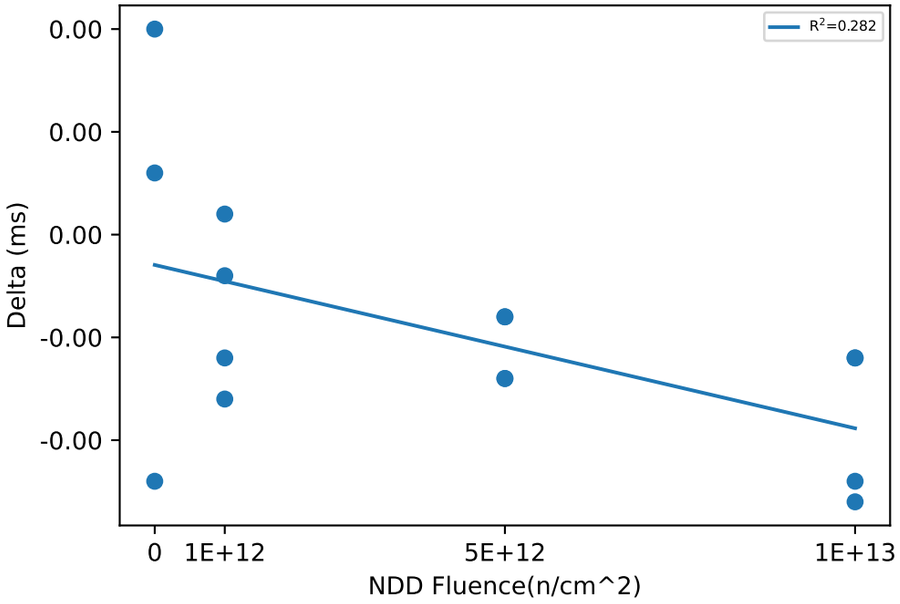
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2655	0.2671	0.2683	0.0014422	0.2651	0.26713	0.2684	0.0017786	-0.0004	3.3333e-05	0.0009	0.00075056
1e+12	0.2581	0.26575	0.2759	0.0075866	0.2575	0.26585	0.2761	0.0080293	-0.0006	0.0001	0.0013	0.0008756
5e+12	0.2669	0.2678	0.2683	0.0006377	0.2674	0.26805	0.2685	0.00046547	-0.0004	0.00025	0.0013	0.00075939
1e+13	0.2665	0.2677	0.2692	0.0011225	0.2669	0.2681	0.2704	0.0015684	-0.0003	0.0004	0.0012	0.00061644

Device Test: 5.25; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

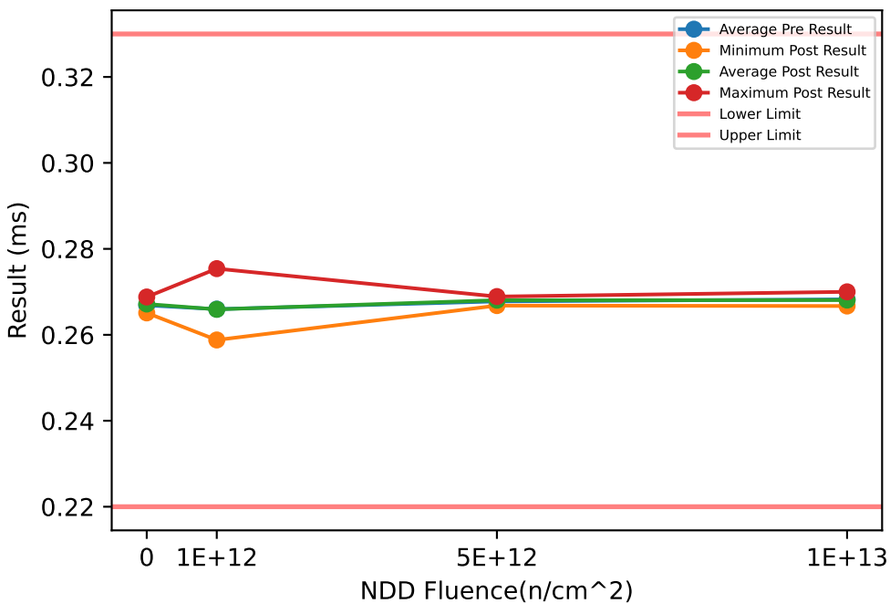
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2665	0.2663	-0.0002
304	1e+12	NDD Unbiased	0.2624	0.2625	0.0001
305	1e+12	NDD Unbiased	0.2764	0.2758	-0.0006
306	1e+12	NDD Unbiased	0.2581	0.2573	-0.0008
307	5e+12	NDD Unbiased	0.2684	0.268	-0.0004
308	5e+12	NDD Unbiased	0.2687	0.2683	-0.0004
309	5e+12	NDD Unbiased	0.2687	0.268	-0.0007
310	5e+12	NDD Unbiased	0.2679	0.2672	-0.0007
311	1e+13	NDD Unbiased	0.2674	0.2662	-0.0012
312	1e+13	NDD Unbiased	0.2678	0.2672	-0.0006
313	1e+13	NDD Unbiased	0.2705	0.2692	-0.0013
314	1e+13	NDD Unbiased	0.2682	0.2676	-0.0006
315	0	Correlation	0.2675	0.2685	0.001
316	0	Correlation	0.2693	0.2681	-0.0012
317	0	Correlation	0.2651	0.2654	0.0003

Test Statistics (ms)

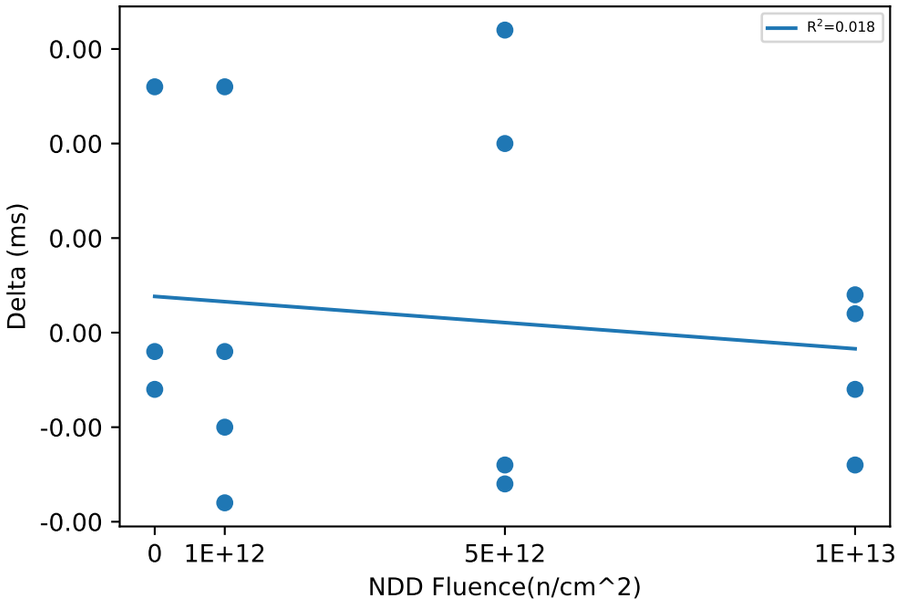
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2651	0.2673	0.2693	0.0021071	0.2654	0.26733	0.2685	0.0016862	-0.0012	3.3333e-05	0.001	0.001124
1e+12	0.2581	0.26585	0.2764	0.007825	0.2573	0.26548	0.2758	0.0078096	-0.0008	-0.000375	0.0001	0.00040311
5e+12	0.2679	0.26843	0.2687	0.00037749	0.2672	0.26787	0.2683	0.0004717	-0.0007	-0.00055	-0.0004	0.00017321
1e+13	0.2674	0.26848	0.2705	0.0013889	0.2662	0.26755	0.2692	0.0012477	-0.0013	-0.000925	-0.0006	0.00037749

Device Test: 5.26; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

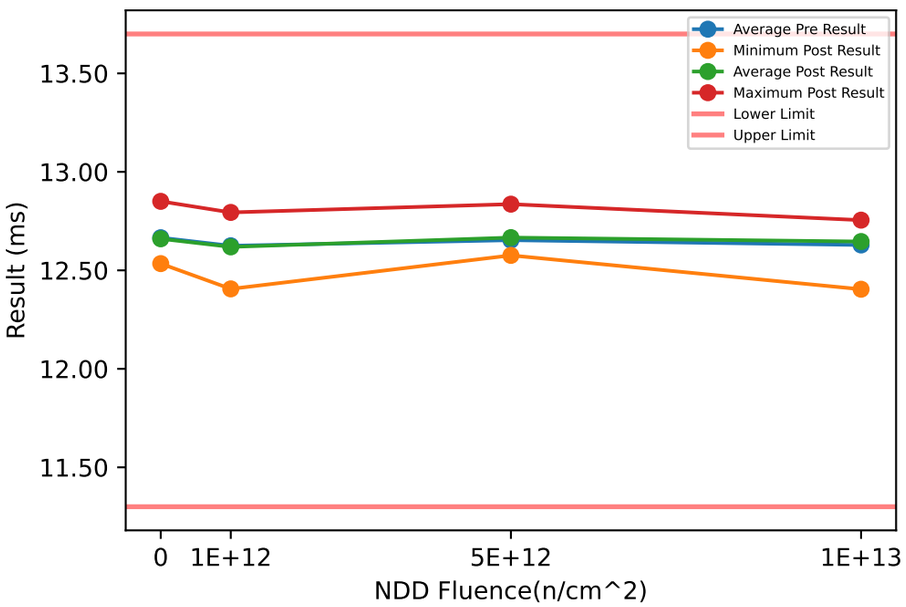
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2672	0.2667	-0.0005
304	1e+12	NDD Unbiased	0.2615	0.2628	0.0013
305	1e+12	NDD Unbiased	0.2763	0.2754	-0.0009
306	1e+12	NDD Unbiased	0.2589	0.2588	-0.0001
307	5e+12	NDD Unbiased	0.2686	0.2678	-0.0008
308	5e+12	NDD Unbiased	0.2679	0.2689	0.001
309	5e+12	NDD Unbiased	0.2671	0.2687	0.0016
310	5e+12	NDD Unbiased	0.2675	0.2668	-0.0007
311	1e+13	NDD Unbiased	0.2666	0.2667	0.0001
312	1e+13	NDD Unbiased	0.2687	0.2684	-0.0003
313	1e+13	NDD Unbiased	0.2698	0.27	0.0002
314	1e+13	NDD Unbiased	0.2679	0.2672	-0.0007
315	0	Correlation	0.2679	0.2676	-0.0003
316	0	Correlation	0.2675	0.2688	0.0013
317	0	Correlation	0.2652	0.2651	-0.0001

Test Statistics (ms)

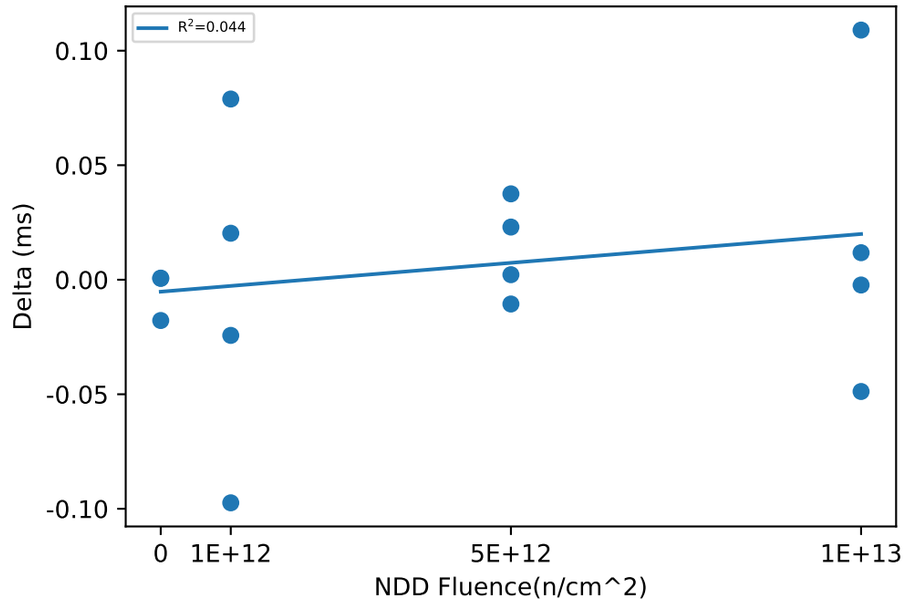
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2652	0.26687	0.2679	0.0014572	0.2651	0.26717	0.2688	0.0018877	-0.0003	0.0003	0.0013	0.00087178
1e+12	0.2589	0.26598	0.2763	0.0077069	0.2588	0.26592	0.2754	0.0070924	-0.0009	-5e-05	0.0013	0.00095743
5e+12	0.2671	0.26777	0.2686	0.00063966	0.2668	0.26805	0.2689	0.0009609	-0.0008	0.000275	0.0016	0.0012093
1e+13	0.2666	0.26825	0.2698	0.0013478	0.2667	0.26808	0.27	0.0014683	-0.0007	-0.000175	0.0002	0.0004113

Device Test: 5.27; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

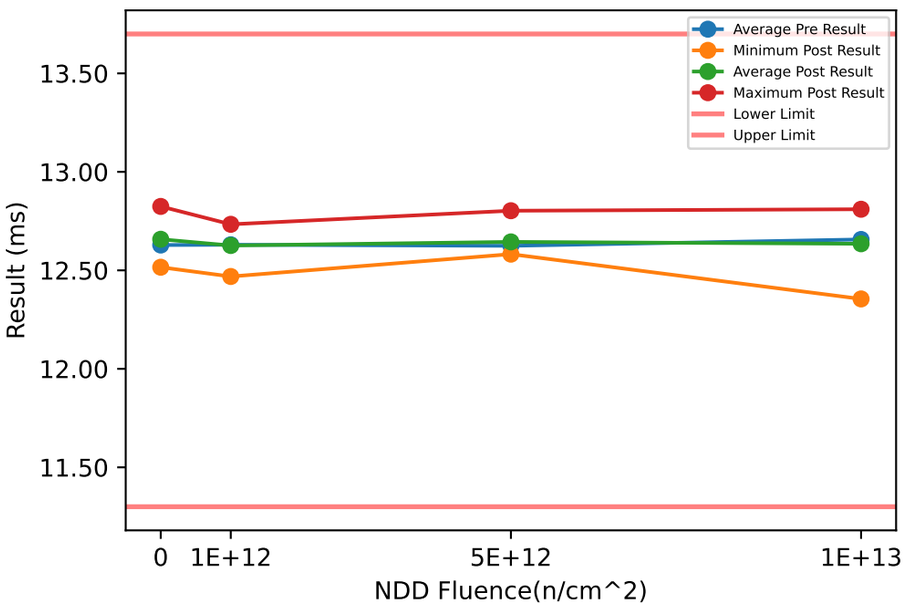
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.608	12.584	-0.0243
304	1e+12	NDD Unbiased	12.715	12.794	0.0789
305	1e+12	NDD Unbiased	12.79	12.692	-0.0974
306	1e+12	NDD Unbiased	12.386	12.406	0.0203
307	5e+12	NDD Unbiased	12.61	12.633	0.023
308	5e+12	NDD Unbiased	12.583	12.62	0.0375
309	5e+12	NDD Unbiased	12.574	12.576	0.0022
310	5e+12	NDD Unbiased	12.847	12.836	-0.0106
311	1e+13	NDD Unbiased	12.757	12.755	-0.0023
312	1e+13	NDD Unbiased	12.737	12.688	-0.0488
313	1e+13	NDD Unbiased	12.726	12.738	0.0118
314	1e+13	NDD Unbiased	12.295	12.404	0.109
315	0	Correlation	12.85	12.85	0.0007
316	0	Correlation	12.552	12.534	-0.0178
317	0	Correlation	12.595	12.596	0.0006

Test Statistics (ms)

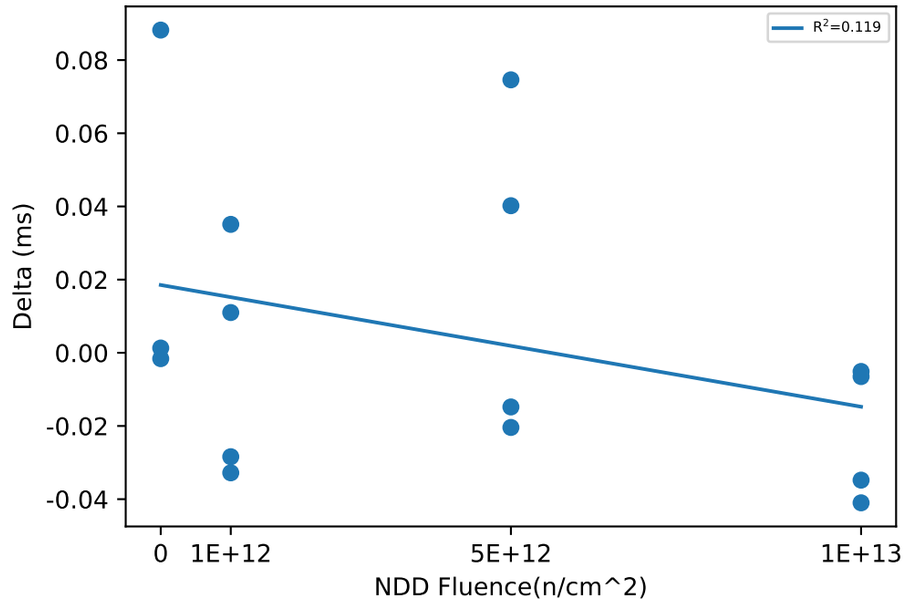
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.552	12.666	12.85	0.16078	12.534	12.66	12.85	0.16755	-0.0178	-0.0055	0.0007	0.010652
1e+12	12.386	12.625	12.79	0.17589	12.406	12.619	12.794	0.16597	-0.0974	-0.005625	0.0789	0.074359
5e+12	12.574	12.653	12.847	0.12984	12.576	12.666	12.836	0.11578	-0.0106	0.013025	0.0375	0.0214
1e+13	12.295	12.629	12.757	0.22289	12.404	12.646	12.755	0.16391	-0.0488	0.017425	0.109	0.066314

Device Test: 5.28; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

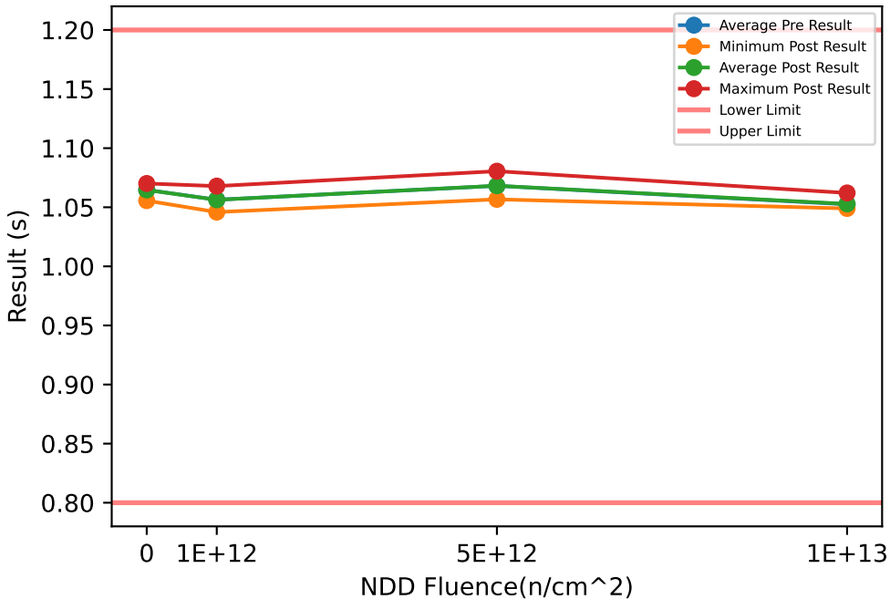
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.557	12.568	0.011
304	1e+12	NDD Unbiased	12.766	12.734	-0.0328
305	1e+12	NDD Unbiased	12.762	12.734	-0.0284
306	1e+12	NDD Unbiased	12.434	12.469	0.0351
307	5e+12	NDD Unbiased	12.61	12.595	-0.0148
308	5e+12	NDD Unbiased	12.542	12.582	0.0402
309	5e+12	NDD Unbiased	12.523	12.597	0.0746
310	5e+12	NDD Unbiased	12.823	12.803	-0.0204
311	1e+13	NDD Unbiased	12.817	12.81	-0.0065
312	1e+13	NDD Unbiased	12.717	12.676	-0.041
313	1e+13	NDD Unbiased	12.733	12.698	-0.0348
314	1e+13	NDD Unbiased	12.36	12.355	-0.0051
315	0	Correlation	12.826	12.825	-0.0016
316	0	Correlation	12.514	12.516	0.0013
317	0	Correlation	12.545	12.633	0.0882

Test Statistics (ms)

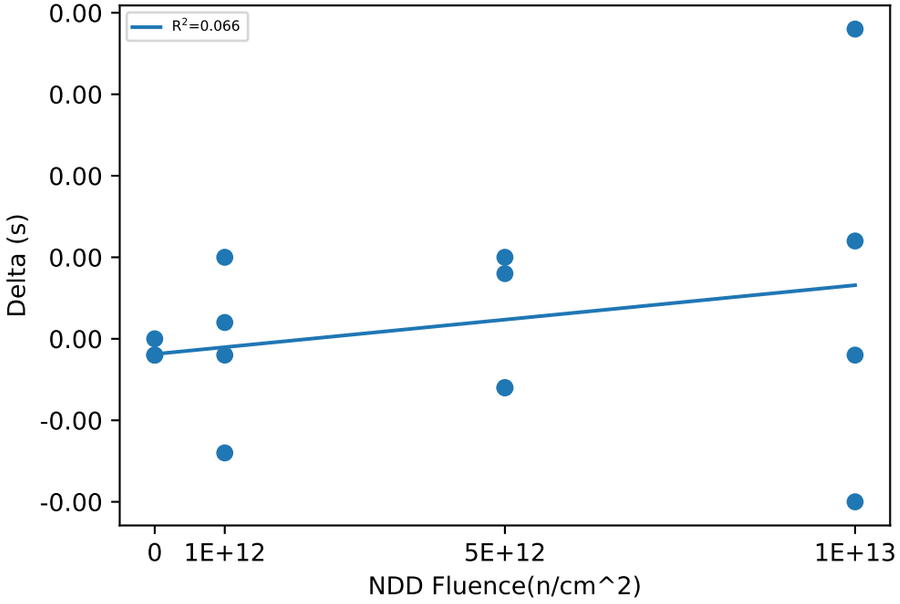
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.514	12.629	12.826	0.1718	12.516	12.658	12.825	0.15583	-0.0016	0.0293	0.0882	0.05103
1e+12	12.434	12.63	12.766	0.16316	12.469	12.626	12.734	0.13065	-0.0328	-0.003775	0.0351	0.032549
5e+12	12.523	12.625	12.823	0.13759	12.582	12.644	12.803	0.10573	-0.0204	0.0199	0.0746	0.045579
1e+13	12.36	12.657	12.817	0.20261	12.355	12.635	12.81	0.19568	-0.041	-0.02185	-0.0051	0.018714

Device Test: 5.29; WD_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



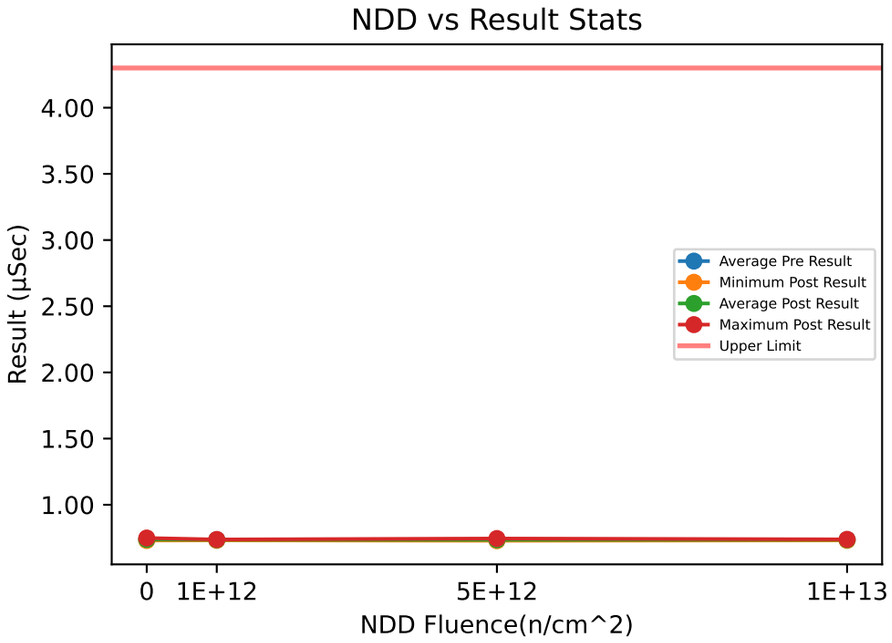
Test Results (Lower Limit = 0.8, Upper Limit = 1.2 (s))

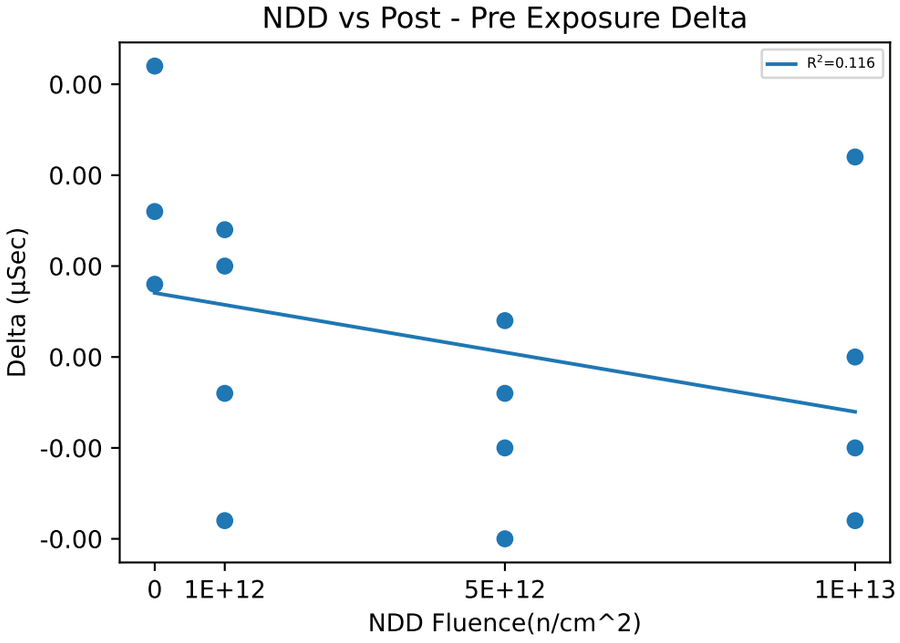
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.0466	1.0459	-0.0007
304	1e+12	NDD Unbiased	1.062	1.0621	0.0001
305	1e+12	NDD Unbiased	1.0674	1.0679	0.0005
306	1e+12	NDD Unbiased	1.0494	1.0493	-0.0001
307	5e+12	NDD Unbiased	1.0808	1.0805	-0.0003
308	5e+12	NDD Unbiased	1.057	1.0567	-0.0003
309	5e+12	NDD Unbiased	1.0613	1.0618	0.0005
310	5e+12	NDD Unbiased	1.0734	1.0738	0.0004
311	1e+13	NDD Unbiased	1.0491	1.049	-0.0001
312	1e+13	NDD Unbiased	1.0479	1.0498	0.0019
313	1e+13	NDD Unbiased	1.0514	1.0504	-0.001
314	1e+13	NDD Unbiased	1.0615	1.0621	0.0006
315	0	Correlation	1.0557	1.0556	-0.0001
316	0	Correlation	1.0683	1.0682	-0.0001
317	0	Correlation	1.0701	1.0701	0

Test Statistics (s)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0557	1.0647	1.0701	0.007846	1.0556	1.0646	1.0701	0.0078806	-0.0001	-6.6667e-05	0	5.7735e-05
1e+12	1.0466	1.0564	1.0674	0.0099564	1.0459	1.0563	1.0679	0.010414	-0.0007	-5e-05	0.0005	0.0005
5e+12	1.057	1.0681	1.0808	0.010937	1.0567	1.0682	1.0805	0.010891	-0.0003	7.5e-05	0.0005	0.00043493
1e+13	1.0479	1.0525	1.0615	0.0061894	1.049	1.0528	1.0621	0.0062099	-0.001	0.00035	0.0019	0.0012234

Device Test: 5.3; PROPD_PWRGD





Test Results (Upper Limit = 4.3 (µSec))

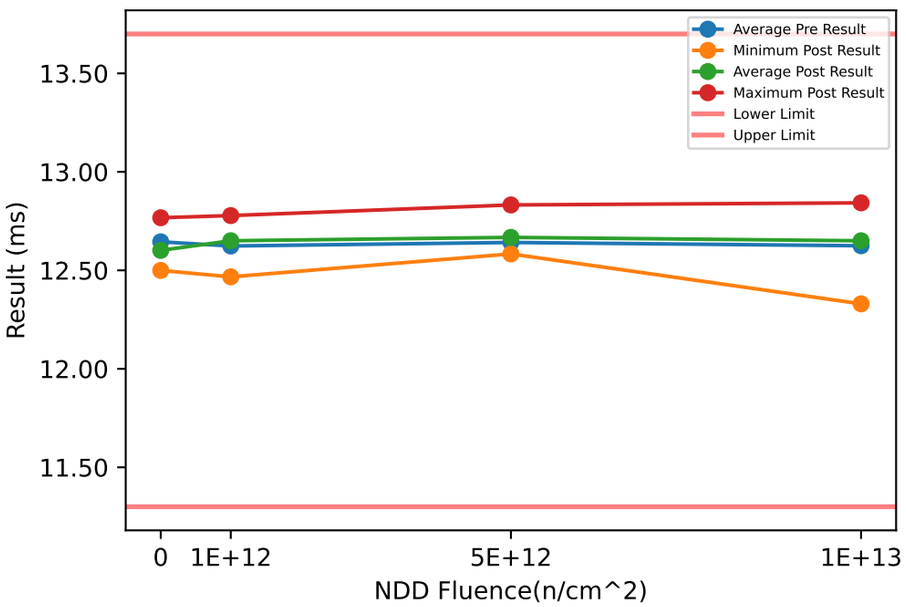
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7348	0.7355	0.0007
304	1e+12	NDD Unbiased	0.7375	0.7373	-0.0002
305	1e+12	NDD Unbiased	0.732	0.7311	-0.0009
306	1e+12	NDD Unbiased	0.7373	0.7378	0.0005
307	5e+12	NDD Unbiased	0.7389	0.7379	-0.001
308	5e+12	NDD Unbiased	0.7291	0.7289	-0.0002
309	5e+12	NDD Unbiased	0.7447	0.7449	0.0002
310	5e+12	NDD Unbiased	0.7289	0.7284	-0.0005
311	1e+13	NDD Unbiased	0.737	0.7361	-0.0009
312	1e+13	NDD Unbiased	0.7376	0.7387	0.0011
313	1e+13	NDD Unbiased	0.731	0.731	0
314	1e+13	NDD Unbiased	0.737	0.7365	-0.0005
315	0	Correlation	0.7339	0.7343	0.0004
316	0	Correlation	0.7287	0.7303	0.0016
317	0	Correlation	0.7479	0.7487	0.0008

Test Statistics (µSec)

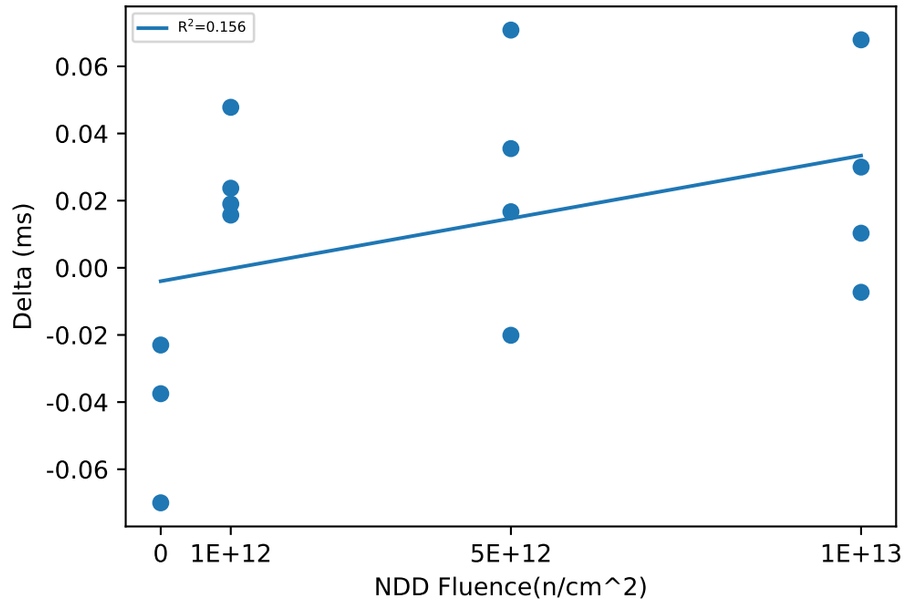
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7287	0.73683	0.7479	0.0099304	0.7303	0.73777	0.7487	0.0096775	0.0004	0.00093333	0.0016	0.00061101
1e+12	0.732	0.7354	0.7375	0.0025781	0.7311	0.73542	0.7378	0.0030478	-0.0009	2.5e-05	0.0007	0.00072744
5e+12	0.7289	0.7354	0.7447	0.0077606	0.7284	0.73503	0.7449	0.0078991	-0.001	-0.000375	0.0002	0.0005058
1e+13	0.731	0.73565	0.7376	0.0031129	0.731	0.73557	0.7387	0.0032572	-0.0009	-7.5e-05	0.0011	0.00086554

Device Test: 5.30; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

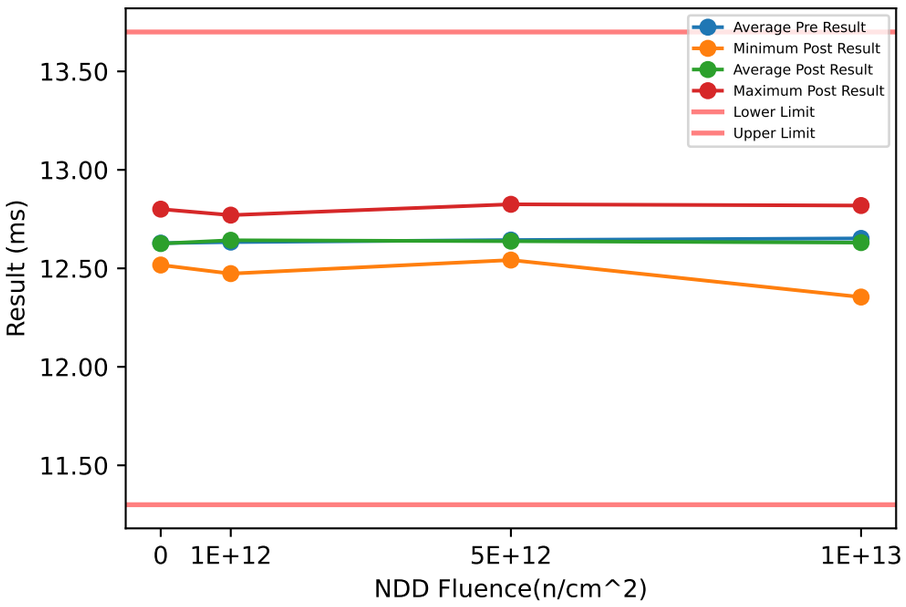
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.551	12.599	0.0478
304	1e+12	NDD Unbiased	12.759	12.778	0.019
305	1e+12	NDD Unbiased	12.741	12.757	0.0157
306	1e+12	NDD Unbiased	12.443	12.467	0.0237
307	5e+12	NDD Unbiased	12.593	12.664	0.0708
308	5e+12	NDD Unbiased	12.573	12.59	0.0167
309	5e+12	NDD Unbiased	12.604	12.583	-0.0201
310	5e+12	NDD Unbiased	12.797	12.832	0.0355
311	1e+13	NDD Unbiased	12.775	12.843	0.0679
312	1e+13	NDD Unbiased	12.706	12.698	-0.0073
313	1e+13	NDD Unbiased	12.719	12.729	0.0103
314	1e+13	NDD Unbiased	12.3	12.33	0.03
315	0	Correlation	12.805	12.767	-0.0375
316	0	Correlation	12.523	12.499	-0.023
317	0	Correlation	12.608	12.538	-0.07

Test Statistics (ms)

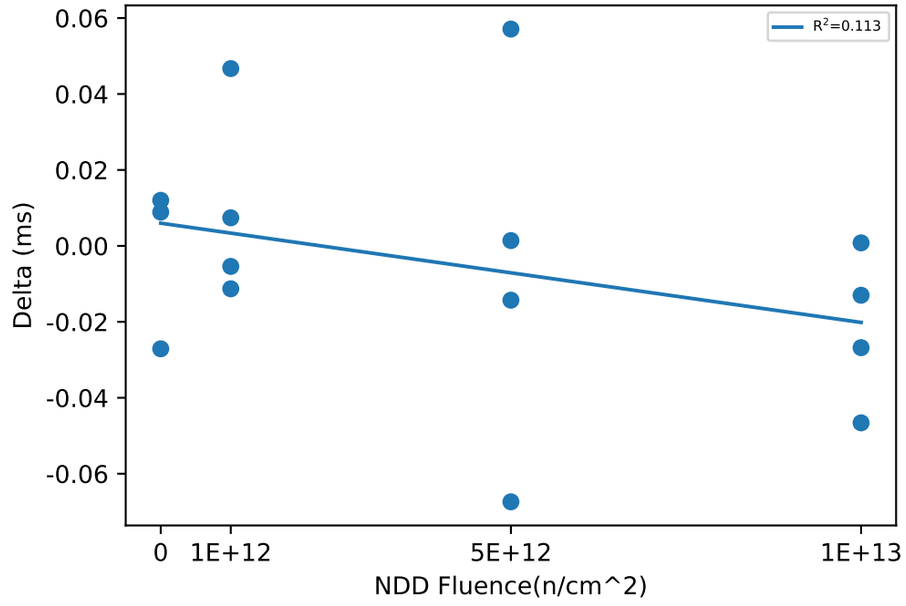
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.523	12.645	12.805	0.1447	12.499	12.601	12.767	0.14476	-0.07	-0.0435	-0.023	0.024068
1e+12	12.443	12.624	12.759	0.15253	12.467	12.65	12.778	0.14583	0.0157	0.02655	0.0478	0.014542
5e+12	12.573	12.642	12.797	0.10411	12.583	12.667	12.832	0.1158	-0.0201	0.025725	0.0708	0.037898
1e+13	12.3	12.625	12.775	0.21862	12.33	12.65	12.843	0.22221	-0.0073	0.025225	0.0679	0.032273

Device Test: 5.31; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



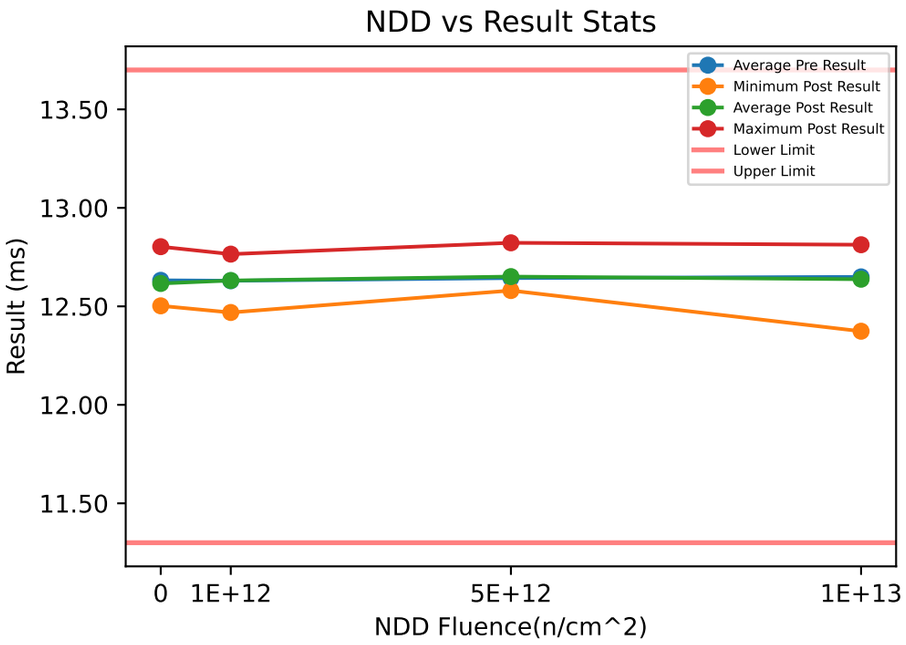
Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

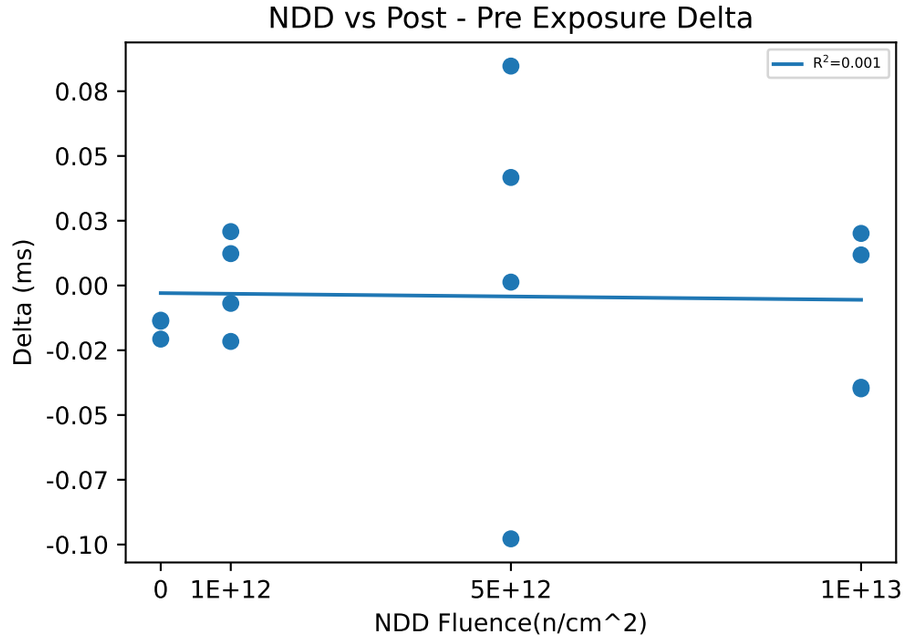
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.563	12.57	0.0074
304	1e+12	NDD Unbiased	12.781	12.77	-0.0113
305	1e+12	NDD Unbiased	12.762	12.757	-0.0054
306	1e+12	NDD Unbiased	12.427	12.473	0.0467
307	5e+12	NDD Unbiased	12.613	12.599	-0.0143
308	5e+12	NDD Unbiased	12.528	12.585	0.0571
309	5e+12	NDD Unbiased	12.61	12.542	-0.0674
310	5e+12	NDD Unbiased	12.824	12.825	0.0014
311	1e+13	NDD Unbiased	12.832	12.819	-0.013
312	1e+13	NDD Unbiased	12.694	12.648	-0.0466
313	1e+13	NDD Unbiased	12.728	12.701	-0.0268
314	1e+13	NDD Unbiased	12.354	12.354	0.0008
315	0	Correlation	12.828	12.8	-0.0271
316	0	Correlation	12.508	12.517	0.0089
317	0	Correlation	12.548	12.56	0.012

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.508	12.628	12.828	0.17408	12.517	12.626	12.8	0.15278	-0.0271	-0.0020667	0.012	0.021735
1e+12	12.427	12.633	12.781	0.16956	12.473	12.643	12.77	0.14516	-0.0113	0.00935	0.0467	0.026095
5e+12	12.528	12.644	12.824	0.12621	12.542	12.638	12.825	0.12712	-0.0674	-0.0058	0.0571	0.051235
1e+13	12.354	12.652	12.832	0.20743	12.354	12.631	12.819	0.19758	-0.0466	-0.0214	0.0008	0.020229

Device Test: 5.32; DLY_TMR_500KOHM





Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

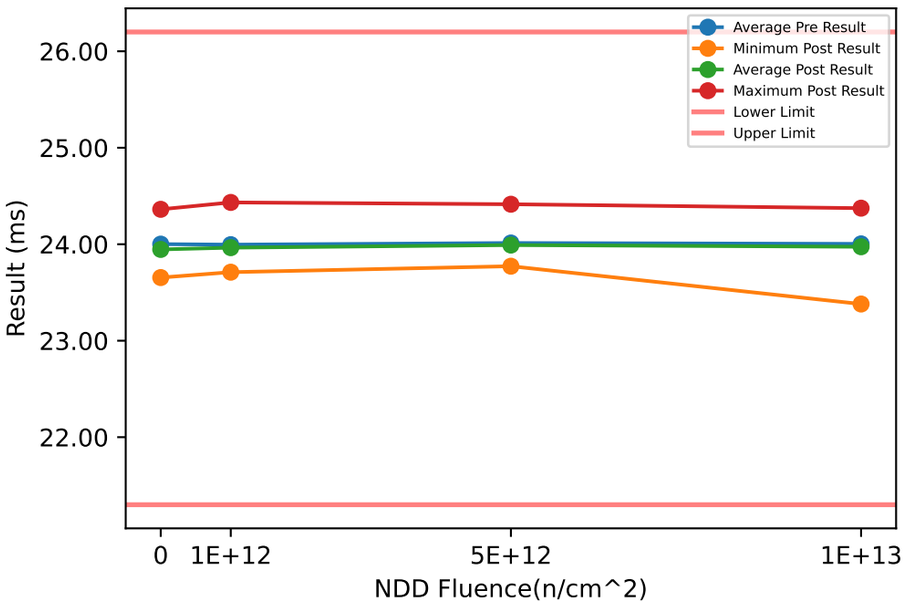
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.571	12.564	-0.0069
304	1e+12	NDD Unbiased	12.753	12.765	0.0123
305	1e+12	NDD Unbiased	12.748	12.727	-0.0216
306	1e+12	NDD Unbiased	12.448	12.469	0.0208
307	5e+12	NDD Unbiased	12.678	12.58	-0.0978
308	5e+12	NDD Unbiased	12.542	12.584	0.0417
309	5e+12	NDD Unbiased	12.533	12.618	0.0847
310	5e+12	NDD Unbiased	12.821	12.822	0.0013
311	1e+13	NDD Unbiased	12.801	12.813	0.0118
312	1e+13	NDD Unbiased	12.712	12.673	-0.0393
313	1e+13	NDD Unbiased	12.732	12.692	-0.0399
314	1e+13	NDD Unbiased	12.354	12.374	0.0201
315	0	Correlation	12.824	12.803	-0.0207
316	0	Correlation	12.516	12.503	-0.0138
317	0	Correlation	12.556	12.543	-0.0134

Test Statistics (ms)

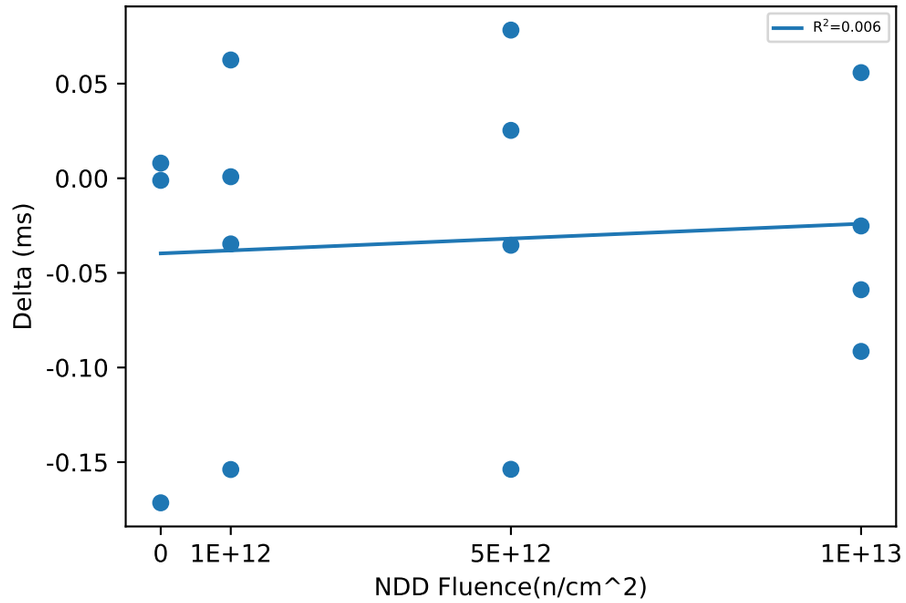
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.516	12.632	12.824	0.16702	12.503	12.616	12.803	0.16297	-0.0207	-0.015967	-0.0134	0.0041041
1e+12	12.448	12.63	12.753	0.14803	12.469	12.631	12.765	0.13903	-0.0216	0.00115	0.0208	0.019086
5e+12	12.533	12.644	12.821	0.13577	12.58	12.651	12.822	0.11557	-0.0978	0.007475	0.0847	0.078009
1e+13	12.354	12.65	12.801	0.20097	12.374	12.638	12.813	0.18664	-0.0399	-0.011825	0.0201	0.032251

Device Test: 5.33; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

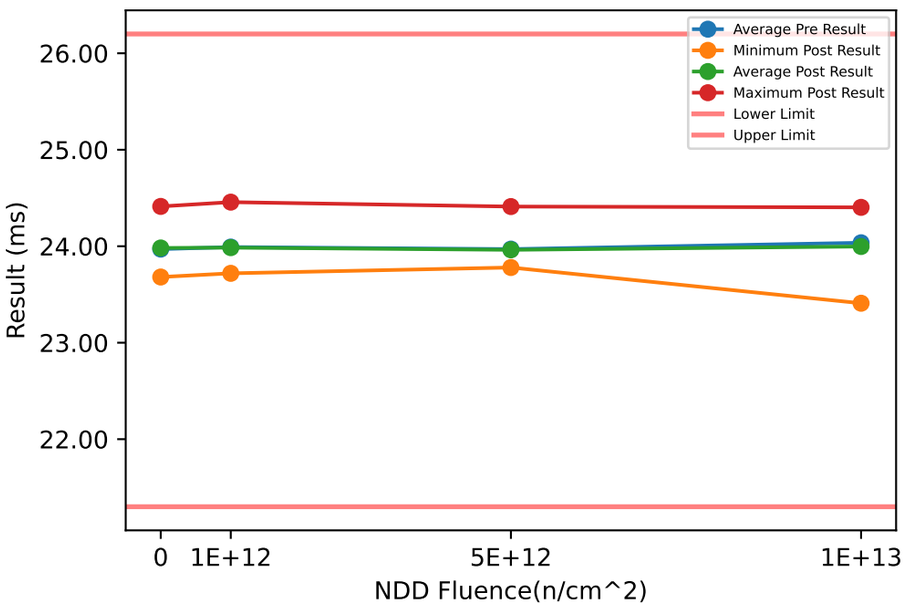
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.93	23.776	-0.1539
304	1e+12	NDD Unbiased	24.432	24.433	0.0008
305	1e+12	NDD Unbiased	23.973	23.938	-0.0347
306	1e+12	NDD Unbiased	23.648	23.71	0.0625
307	5e+12	NDD Unbiased	23.888	23.853	-0.0354
308	5e+12	NDD Unbiased	23.847	23.926	0.0783
309	5e+12	NDD Unbiased	23.926	23.772	-0.1538
310	5e+12	NDD Unbiased	24.389	24.415	0.0253
311	1e+13	NDD Unbiased	24.399	24.374	-0.0252
312	1e+13	NDD Unbiased	24.163	24.072	-0.0915
313	1e+13	NDD Unbiased	24.128	24.07	-0.0589
314	1e+13	NDD Unbiased	23.325	23.38	0.0558
315	0	Correlation	24.354	24.362	0.008
316	0	Correlation	23.826	23.654	-0.1715
317	0	Correlation	23.823	23.822	-0.0011

Test Statistics (ms)

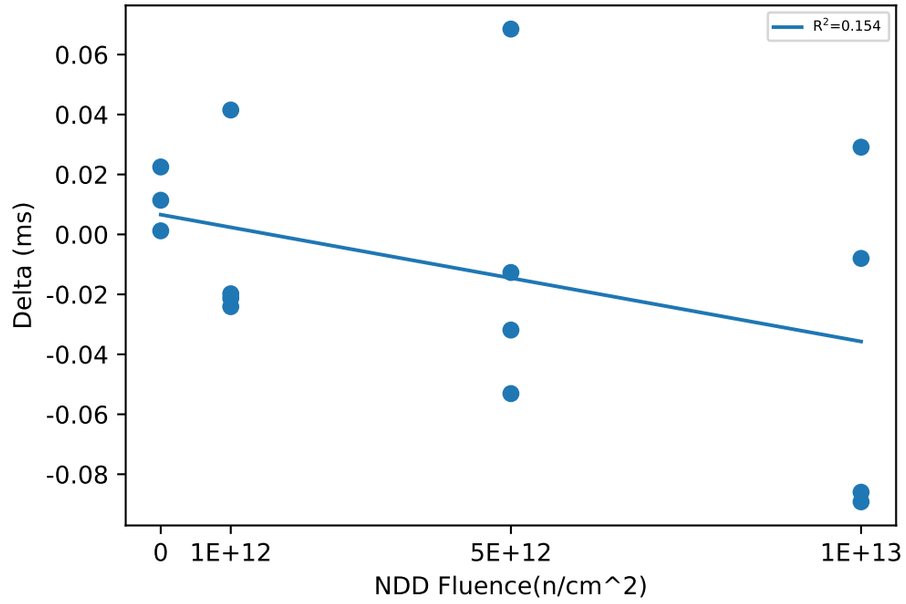
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.823	24.001	24.354	0.30562	23.654	23.946	24.362	0.36968	-0.1715	-0.054867	0.008	0.10111
1e+12	23.648	23.996	24.432	0.32488	23.71	23.964	24.433	0.32694	-0.1539	-0.031325	0.0625	0.091052
5e+12	23.847	24.013	24.389	0.25309	23.772	23.991	24.415	0.28907	-0.1538	-0.0214	0.0783	0.099744
1e+13	23.325	24.004	24.399	0.46851	23.38	23.974	24.374	0.42069	-0.0915	-0.02995	0.0558	0.063251

Device Test: 5.34; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

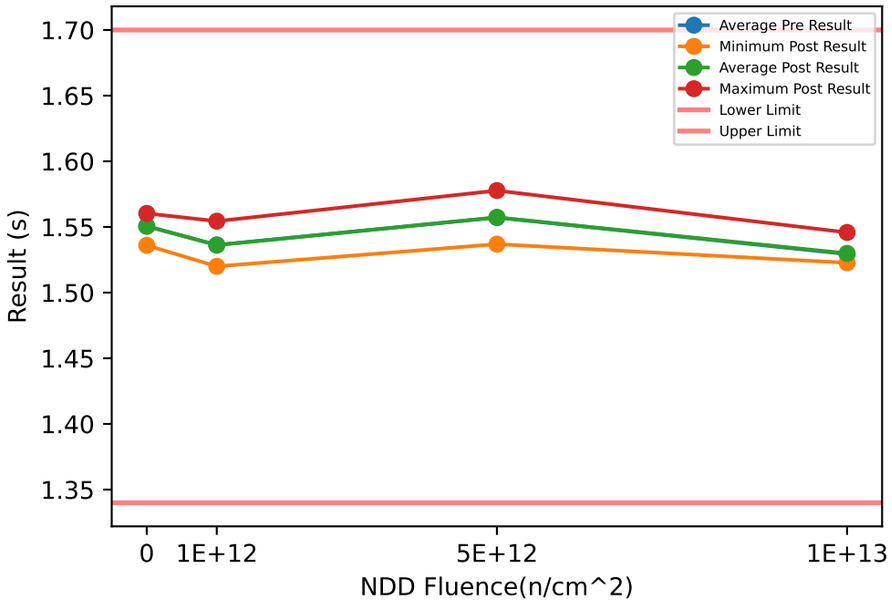
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.806	23.782	-0.0241
304	1e+12	NDD Unbiased	24.478	24.457	-0.0213
305	1e+12	NDD Unbiased	24.003	23.984	-0.0198
306	1e+12	NDD Unbiased	23.678	23.719	0.0415
307	5e+12	NDD Unbiased	23.907	23.854	-0.0531
308	5e+12	NDD Unbiased	23.738	23.807	0.0685
309	5e+12	NDD Unbiased	23.792	23.779	-0.0127
310	5e+12	NDD Unbiased	24.443	24.411	-0.0319
311	1e+13	NDD Unbiased	24.411	24.403	-0.008
312	1e+13	NDD Unbiased	24.194	24.105	-0.0892
313	1e+13	NDD Unbiased	24.158	24.072	-0.086
314	1e+13	NDD Unbiased	23.38	23.409	0.0291
315	0	Correlation	24.401	24.413	0.0114
316	0	Correlation	23.658	23.681	0.0225
317	0	Correlation	23.851	23.852	0.0012

Test Statistics (ms)

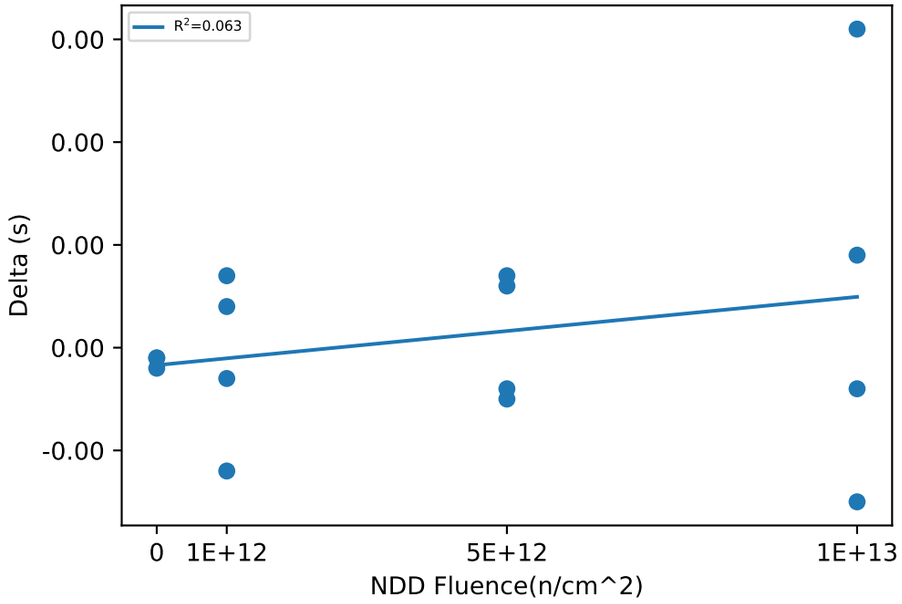
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.658	23.97	24.401	0.38551	23.681	23.982	24.413	0.38274	0.0012	0.0117	0.0225	0.010653
1e+12	23.678	23.991	24.478	0.35124	23.719	23.985	24.457	0.33405	-0.0241	-0.005925	0.0415	0.031667
5e+12	23.738	23.97	24.443	0.32302	23.779	23.963	24.411	0.30047	-0.0531	-0.0073	0.0685	0.053159
1e+13	23.38	24.036	24.411	0.45114	23.409	23.997	24.403	0.41933	-0.0892	-0.038525	0.0291	0.058671

Device Test: 5.35; WD_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.34, Upper Limit = 1.7 (s))

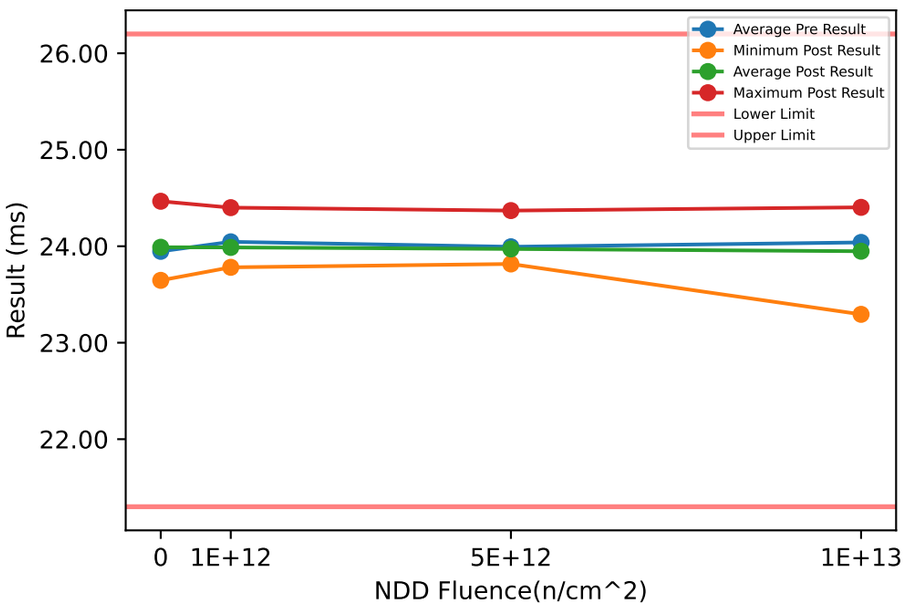
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.5212	1.52	-0.0012
304	1e+12	NDD Unbiased	1.5451	1.5455	0.0004
305	1e+12	NDD Unbiased	1.5537	1.5544	0.0007
306	1e+12	NDD Unbiased	1.5251	1.5248	-0.0003
307	5e+12	NDD Unbiased	1.5782	1.5777	-0.0005
308	5e+12	NDD Unbiased	1.5373	1.5369	-0.0004
309	5e+12	NDD Unbiased	1.5461	1.5467	0.0006
310	5e+12	NDD Unbiased	1.5672	1.5679	0.0007
311	1e+13	NDD Unbiased	1.5231	1.5227	-0.0004
312	1e+13	NDD Unbiased	1.522	1.5251	0.0031
313	1e+13	NDD Unbiased	1.5273	1.5258	-0.0015
314	1e+13	NDD Unbiased	1.5449	1.5458	0.0009
315	0	Correlation	1.5362	1.536	-0.0002
316	0	Correlation	1.5554	1.5553	-0.0001
317	0	Correlation	1.5604	1.5603	-0.0001

Test Statistics (s)

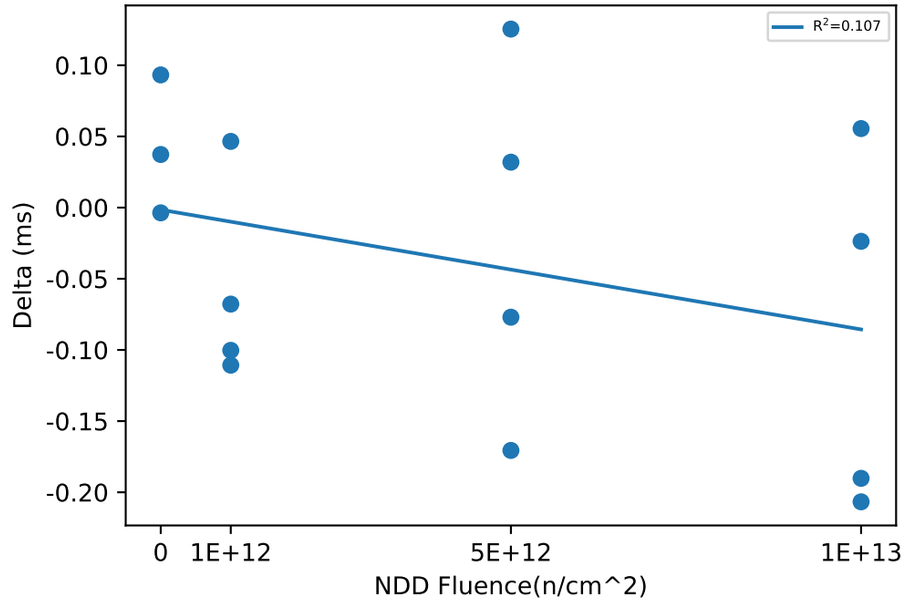
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5362	1.5507	1.5604	0.012775	1.536	1.5505	1.5603	0.012832	-0.0002	-0.00013333	-0.0001	5.7735e-05
1e+12	1.5212	1.5363	1.5537	0.015638	1.52	1.5362	1.5544	0.016433	-0.0012	-0.0001	0.0007	0.00084459
5e+12	1.5373	1.5572	1.5782	0.018799	1.5369	1.5573	1.5777	0.018771	-0.0005	0.0001	0.0007	0.0006377
1e+13	1.522	1.5293	1.5449	0.010632	1.5227	1.5298	1.5458	0.010716	-0.0015	0.000525	0.0031	0.0019772

Device Test: 5.36; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

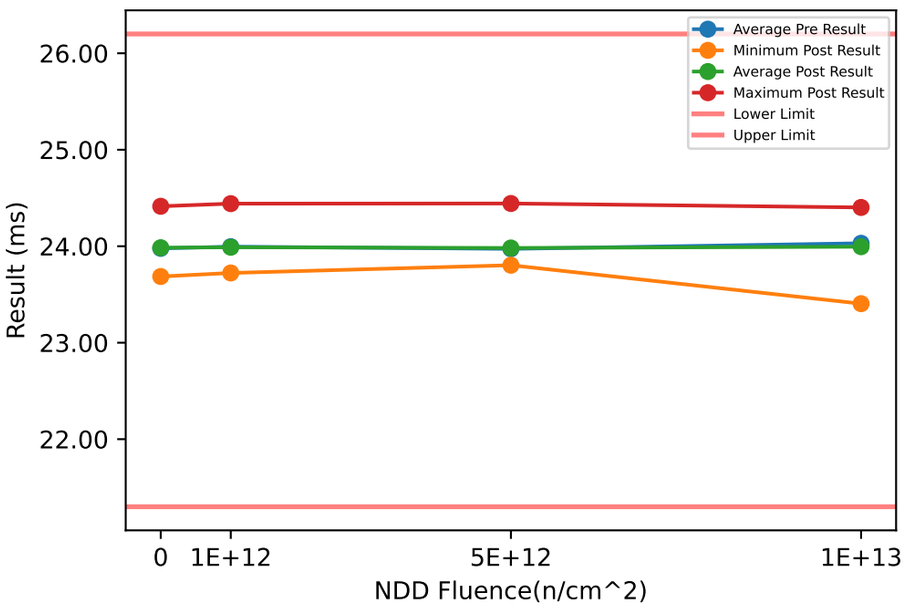
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.892	23.781	-0.1107
304	1e+12	NDD Unbiased	24.5	24.4	-0.1003
305	1e+12	NDD Unbiased	24.025	23.957	-0.0678
306	1e+12	NDD Unbiased	23.766	23.812	0.0465
307	5e+12	NDD Unbiased	24.014	23.844	-0.1706
308	5e+12	NDD Unbiased	23.733	23.858	0.1254
309	5e+12	NDD Unbiased	23.893	23.816	-0.077
310	5e+12	NDD Unbiased	24.338	24.369	0.0319
311	1e+13	NDD Unbiased	24.347	24.403	0.0555
312	1e+13	NDD Unbiased	24.246	24.056	-0.1902
313	1e+13	NDD Unbiased	24.247	24.04	-0.2067
314	1e+13	NDD Unbiased	23.318	23.294	-0.0237
315	0	Correlation	24.373	24.466	0.0932
316	0	Correlation	23.65	23.646	-0.0037
317	0	Correlation	23.818	23.856	0.0373

Test Statistics (ms)

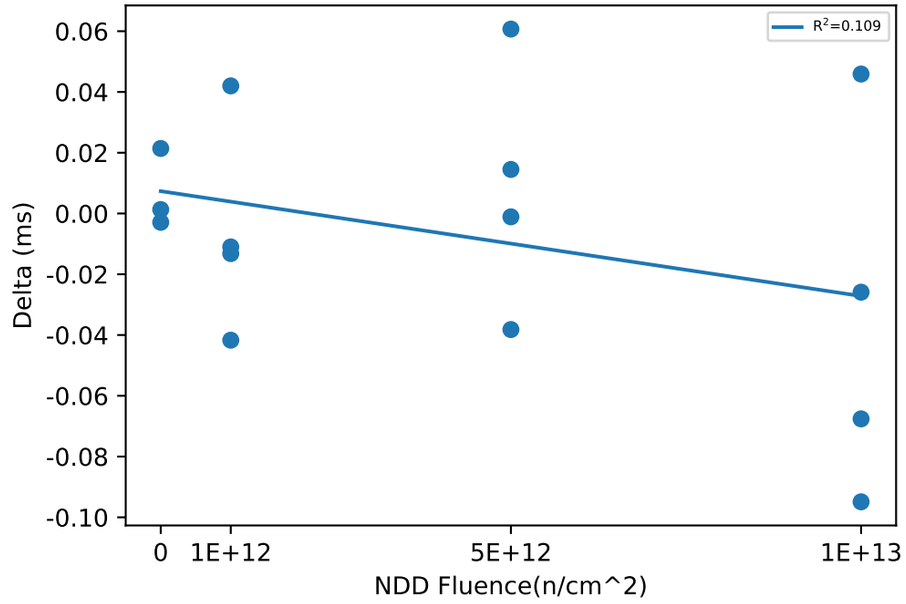
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.65	23.947	24.373	0.37824	23.646	23.989	24.466	0.42593	-0.0037	0.042267	0.0932	0.048641
1e+12	23.766	24.046	24.5	0.32093	23.781	23.988	24.4	0.28532	-0.1107	-0.058075	0.0465	0.072071
5e+12	23.733	23.994	24.338	0.25628	23.816	23.972	24.369	0.2657	-0.1706	-0.022575	0.1254	0.12876
1e+13	23.318	24.04	24.347	0.48348	23.294	23.948	24.403	0.46712	-0.2067	-0.091275	0.0555	0.12809

Device Test: 5.37; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

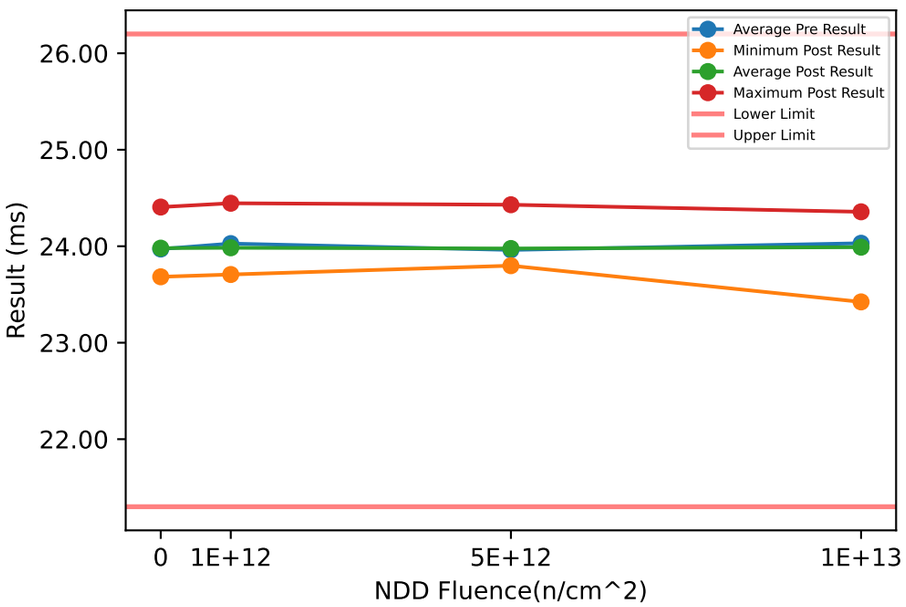
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.819	23.808	-0.011
304	1e+12	NDD Unbiased	24.483	24.441	-0.0417
305	1e+12	NDD Unbiased	23.999	23.986	-0.0132
306	1e+12	NDD Unbiased	23.681	23.723	0.042
307	5e+12	NDD Unbiased	23.91	23.872	-0.0382
308	5e+12	NDD Unbiased	23.748	23.809	0.0607
309	5e+12	NDD Unbiased	23.789	23.803	0.0145
310	5e+12	NDD Unbiased	24.444	24.443	-0.0011
311	1e+13	NDD Unbiased	24.428	24.402	-0.0259
312	1e+13	NDD Unbiased	24.178	24.083	-0.0949
313	1e+13	NDD Unbiased	24.158	24.09	-0.0676
314	1e+13	NDD Unbiased	23.359	23.405	0.0459
315	0	Correlation	24.393	24.414	0.0214
316	0	Correlation	23.689	23.686	-0.0029
317	0	Correlation	23.852	23.853	0.0013

Test Statistics (ms)

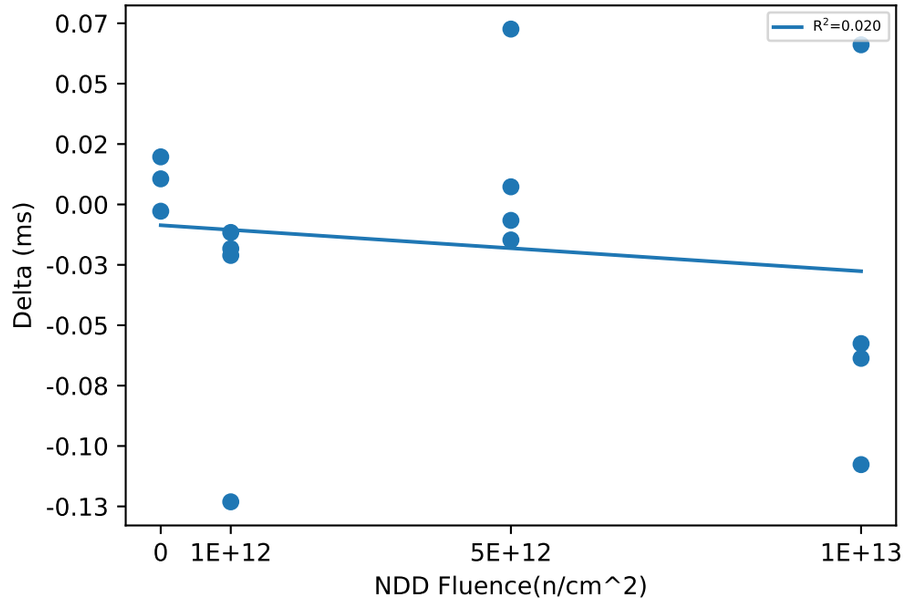
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.689	23.978	24.393	0.36839	23.686	23.984	24.414	0.38135	-0.0029	0.0066	0.0214	0.012988
1e+12	23.681	23.995	24.483	0.3503	23.723	23.989	24.441	0.32066	-0.0417	-0.005975	0.042	0.034906
5e+12	23.748	23.973	24.444	0.32163	23.803	23.982	24.443	0.30901	-0.0382	0.008975	0.0607	0.040959
1e+13	23.359	24.031	24.428	0.46446	23.405	23.995	24.402	0.42072	-0.0949	-0.035625	0.0459	0.06131

Device Test: 5.38; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

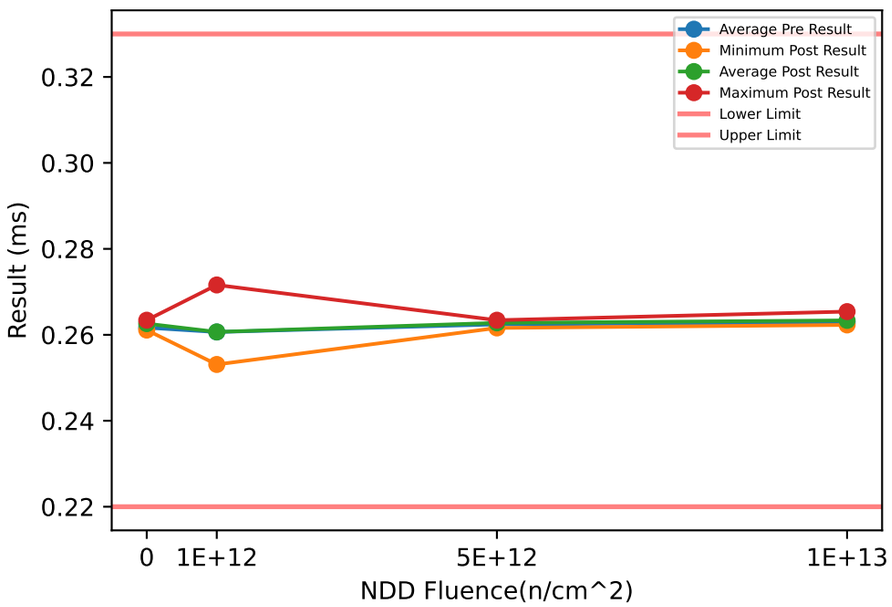
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.812	23.801	-0.0116
304	1e+12	NDD Unbiased	24.467	24.445	-0.0211
305	1e+12	NDD Unbiased	24	23.982	-0.0183
306	1e+12	NDD Unbiased	23.83	23.707	-0.1231
307	5e+12	NDD Unbiased	23.887	23.872	-0.0147
308	5e+12	NDD Unbiased	23.733	23.805	0.0726
309	5e+12	NDD Unbiased	23.791	23.798	0.0073
310	5e+12	NDD Unbiased	24.437	24.43	-0.0066
311	1e+13	NDD Unbiased	24.414	24.357	-0.0576
312	1e+13	NDD Unbiased	24.194	24.086	-0.1077
313	1e+13	NDD Unbiased	24.158	24.095	-0.0637
314	1e+13	NDD Unbiased	23.357	23.423	0.0661
315	0	Correlation	24.386	24.406	0.0197
316	0	Correlation	23.686	23.683	-0.0028
317	0	Correlation	23.84	23.851	0.0106

Test Statistics (ms)

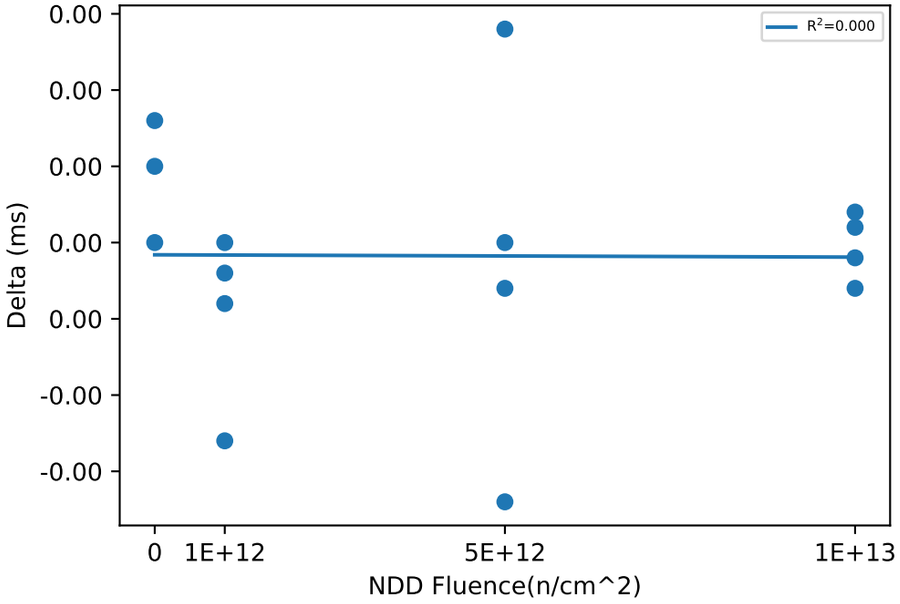
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.686	23.971	24.386	0.36792	23.683	23.98	24.406	0.37827	-0.0028	0.0091667	0.0197	0.011318
1e+12	23.812	24.027	24.467	0.30489	23.707	23.984	24.445	0.32832	-0.1231	-0.043525	-0.0116	0.0532
5e+12	23.733	23.962	24.437	0.32288	23.798	23.976	24.43	0.30423	-0.0147	0.01465	0.0726	0.039687
1e+13	23.357	24.031	24.414	0.46335	23.423	23.99	24.357	0.39841	-0.1077	-0.040725	0.0661	0.074632

Device Test: 5.39; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



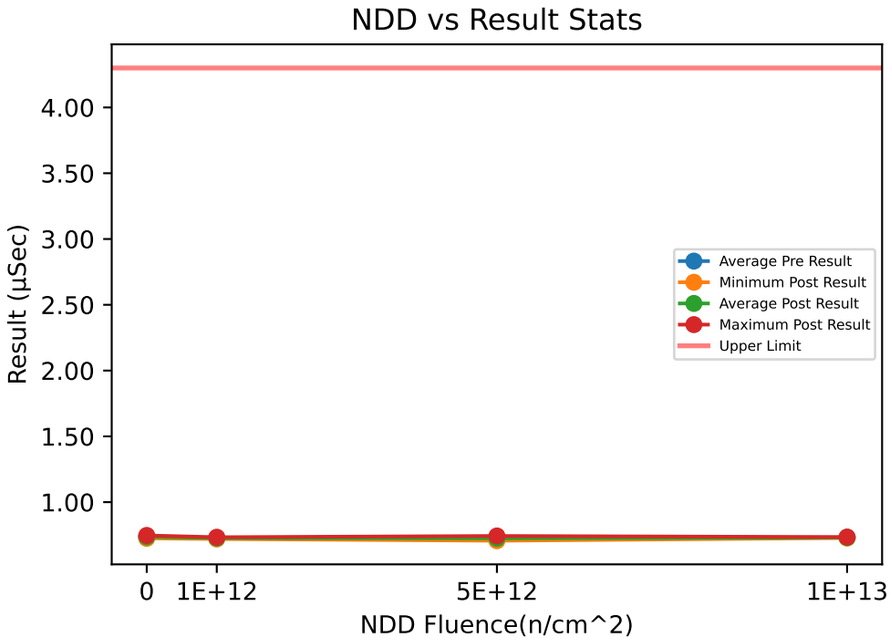
Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

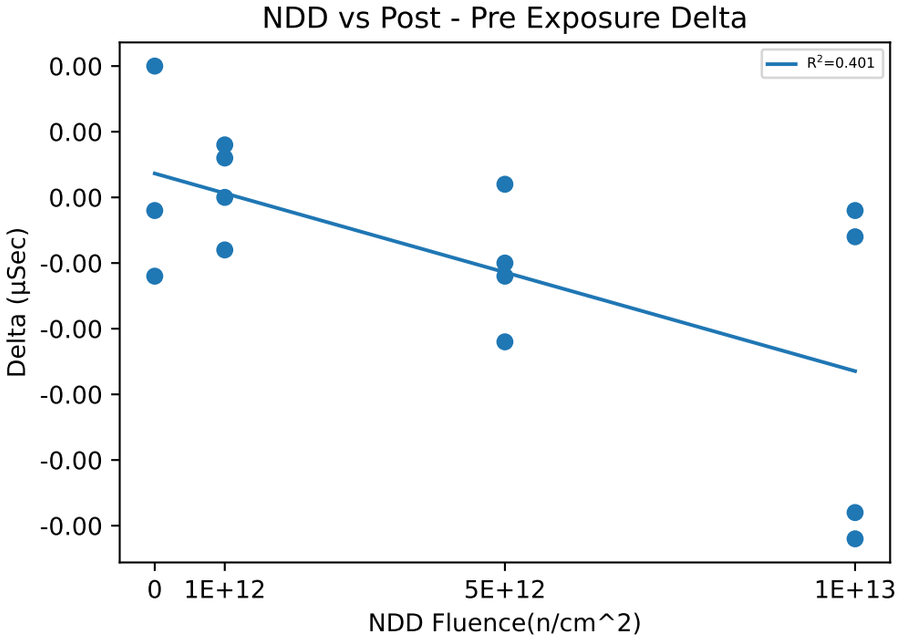
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2613	0.2614	0.0001
304	1e+12	NDD Unbiased	0.2574	0.2566	-0.0008
305	1e+12	NDD Unbiased	0.2713	0.2716	0.0003
306	1e+12	NDD Unbiased	0.2526	0.2531	0.0005
307	5e+12	NDD Unbiased	0.2628	0.2616	-0.0012
308	5e+12	NDD Unbiased	0.2629	0.2631	0.0002
309	5e+12	NDD Unbiased	0.2625	0.263	0.0005
310	5e+12	NDD Unbiased	0.2615	0.2634	0.0019
311	1e+13	NDD Unbiased	0.2627	0.2629	0.0002
312	1e+13	NDD Unbiased	0.2621	0.2628	0.0007
313	1e+13	NDD Unbiased	0.2648	0.2654	0.0006
314	1e+13	NDD Unbiased	0.2619	0.2623	0.0004
315	0	Correlation	0.2621	0.2634	0.0013
316	0	Correlation	0.2628	0.2633	0.0005
317	0	Correlation	0.2601	0.2611	0.001

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2601	0.26167	0.2628	0.0014012	0.2611	0.2626	0.2634	0.0013	0.0005	0.00093333	0.0013	0.00040415
1e+12	0.2526	0.26065	0.2713	0.0079417	0.2531	0.26067	0.2716	0.0080388	-0.0008	2.5e-05	0.0005	0.00057373
5e+12	0.2615	0.26243	0.2629	0.00063966	0.2616	0.26277	0.2634	0.00080156	-0.0012	0.00035	0.0019	0.0012715
1e+13	0.2619	0.26287	0.2648	0.0013276	0.2623	0.26335	0.2654	0.0013916	0.0002	0.000475	0.0007	0.00022174

Device Test: 5.4; PROPD_RESET





Test Results (Upper Limit = 4.3 (µSec))

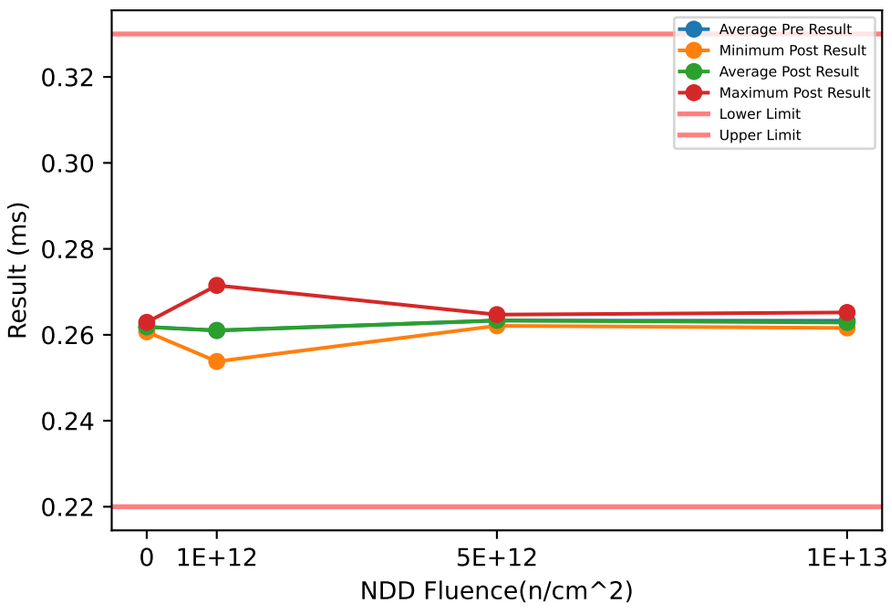
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7329	0.7333	0.0004
304	1e+12	NDD Unbiased	0.7236	0.7232	-0.0004
305	1e+12	NDD Unbiased	0.731	0.731	0
306	1e+12	NDD Unbiased	0.7198	0.7201	0.0003
307	5e+12	NDD Unbiased	0.7283	0.7277	-0.0006
308	5e+12	NDD Unbiased	0.7434	0.7429	-0.0005
309	5e+12	NDD Unbiased	0.7079	0.7068	-0.0011
310	5e+12	NDD Unbiased	0.7213	0.7214	0.0001
311	1e+13	NDD Unbiased	0.7316	0.7313	-0.0003
312	1e+13	NDD Unbiased	0.7301	0.7277	-0.0024
313	1e+13	NDD Unbiased	0.7371	0.7345	-0.0026
314	1e+13	NDD Unbiased	0.7284	0.7283	-0.0001
315	0	Correlation	0.7241	0.7251	0.001
316	0	Correlation	0.7379	0.7378	-0.0001
317	0	Correlation	0.7475	0.7469	-0.0006

Test Statistics (µSec)

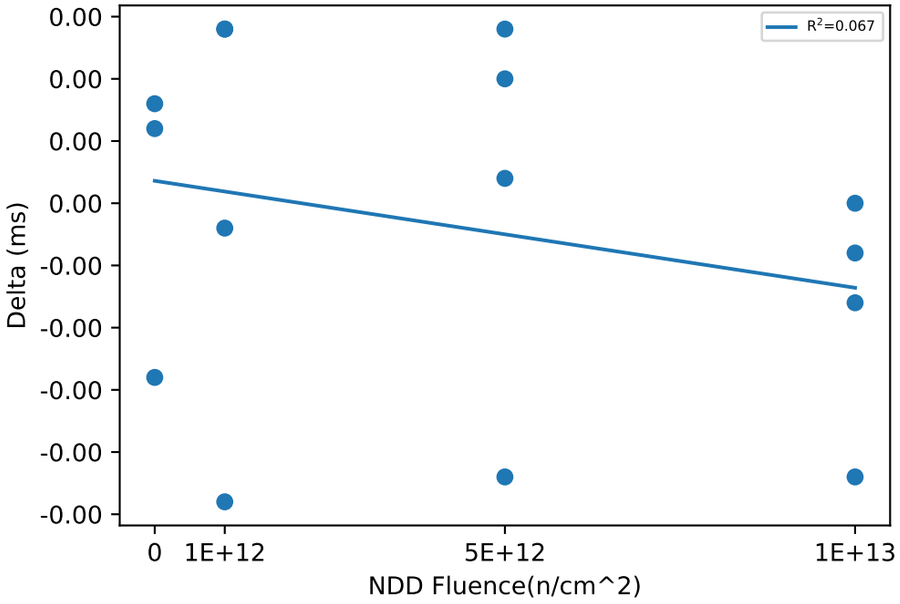
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7241	0.7365	0.7475	0.011763	0.7251	0.7366	0.7469	0.010949	-0.0006	0.0001	0.001	0.00081854
1e+12	0.7198	0.72683	0.7329	0.0061668	0.7201	0.7269	0.7333	0.0062637	-0.0004	7.5e-05	0.0004	0.0003594
5e+12	0.7079	0.72523	0.7434	0.01478	0.7068	0.7247	0.7429	0.014962	-0.0011	-0.000525	0.0001	0.00049244
1e+13	0.7284	0.7318	0.7371	0.0037674	0.7277	0.73045	0.7345	0.0031257	-0.0026	-0.00135	-0.0001	0.0013329

Device Test: 5.40; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

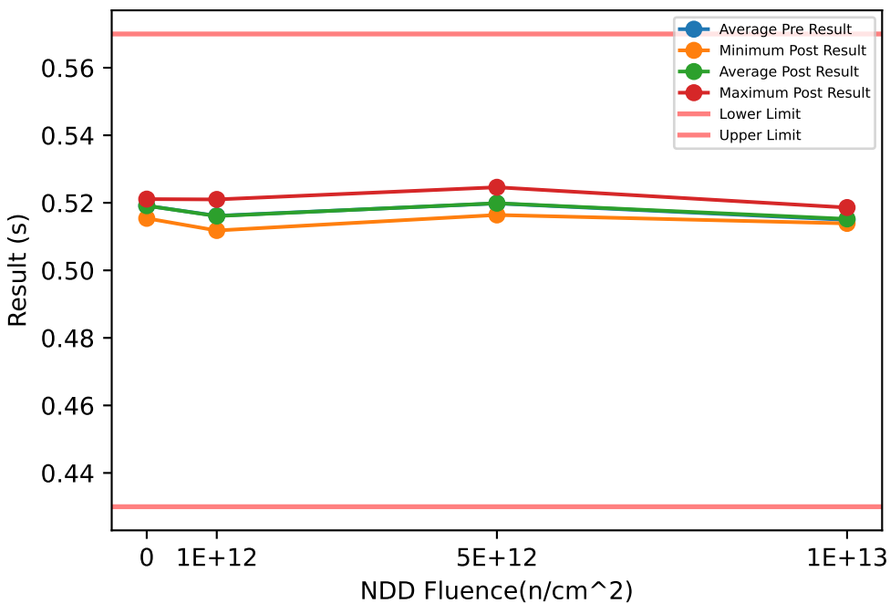
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.262	0.2627	0.0007
304	1e+12	NDD Unbiased	0.2573	0.2561	-0.0012
305	1e+12	NDD Unbiased	0.2716	0.2715	-0.0001
306	1e+12	NDD Unbiased	0.2531	0.2538	0.0007
307	5e+12	NDD Unbiased	0.2632	0.2621	-0.0011
308	5e+12	NDD Unbiased	0.2642	0.2647	0.0005
309	5e+12	NDD Unbiased	0.2625	0.2632	0.0007
310	5e+12	NDD Unbiased	0.2633	0.2634	0.0001
311	1e+13	NDD Unbiased	0.2625	0.2623	-0.0002
312	1e+13	NDD Unbiased	0.2627	0.2623	-0.0004
313	1e+13	NDD Unbiased	0.2652	0.2652	0
314	1e+13	NDD Unbiased	0.2627	0.2616	-0.0011
315	0	Correlation	0.2626	0.2619	-0.0007
316	0	Correlation	0.2625	0.2629	0.0004
317	0	Correlation	0.2604	0.2607	0.0003

Test Statistics (ms)

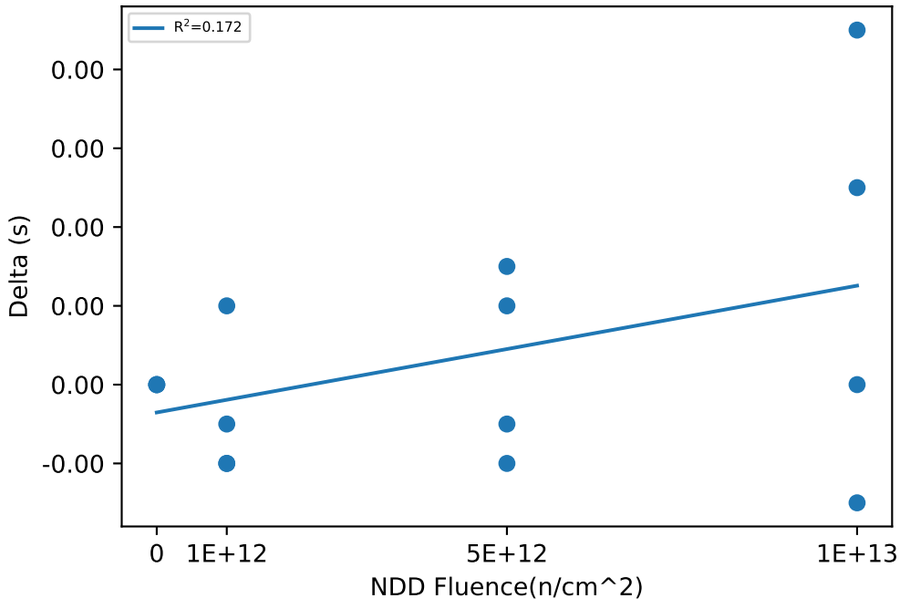
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2604	0.26183	0.2626	0.0012423	0.2607	0.26183	0.2629	0.0011015	-0.0007	0	0.0004	0.00060828
1e+12	0.2531	0.261	0.2716	0.0079469	0.2538	0.26103	0.2715	0.007937	-0.0012	2.5e-05	0.0007	0.00089954
5e+12	0.2625	0.2633	0.2642	0.00069761	0.2621	0.26335	0.2647	0.0010661	-0.0011	5e-05	0.0007	0.00080623
1e+13	0.2625	0.26327	0.2652	0.0012868	0.2616	0.26285	0.2652	0.001601	-0.0011	-0.000425	0	0.00047871

Device Test: 5.41; WD_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.43, Upper Limit = 0.57 (s))

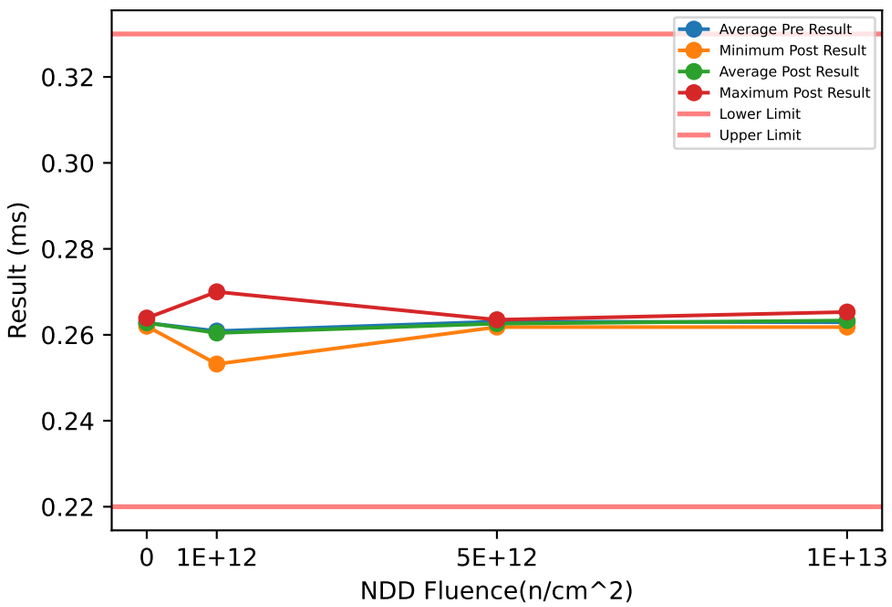
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.512	0.5118	-0.0002
304	1e+12	NDD Unbiased	0.5184	0.5182	-0.0002
305	1e+12	NDD Unbiased	0.5208	0.521	0.0002
306	1e+12	NDD Unbiased	0.5134	0.5133	-0.0001
307	5e+12	NDD Unbiased	0.5248	0.5246	-0.0002
308	5e+12	NDD Unbiased	0.5165	0.5164	-0.0001
309	5e+12	NDD Unbiased	0.5169	0.5172	0.0003
310	5e+12	NDD Unbiased	0.5211	0.5213	0.0002
311	1e+13	NDD Unbiased	0.5139	0.5139	0
312	1e+13	NDD Unbiased	0.5131	0.514	0.0009
313	1e+13	NDD Unbiased	0.5147	0.5144	-0.0003
314	1e+13	NDD Unbiased	0.5181	0.5186	0.0005
315	0	Correlation	0.5154	0.5154	0
316	0	Correlation	0.5211	0.5211	0
317	0	Correlation	0.5209	0.5209	0

Test Statistics (s)

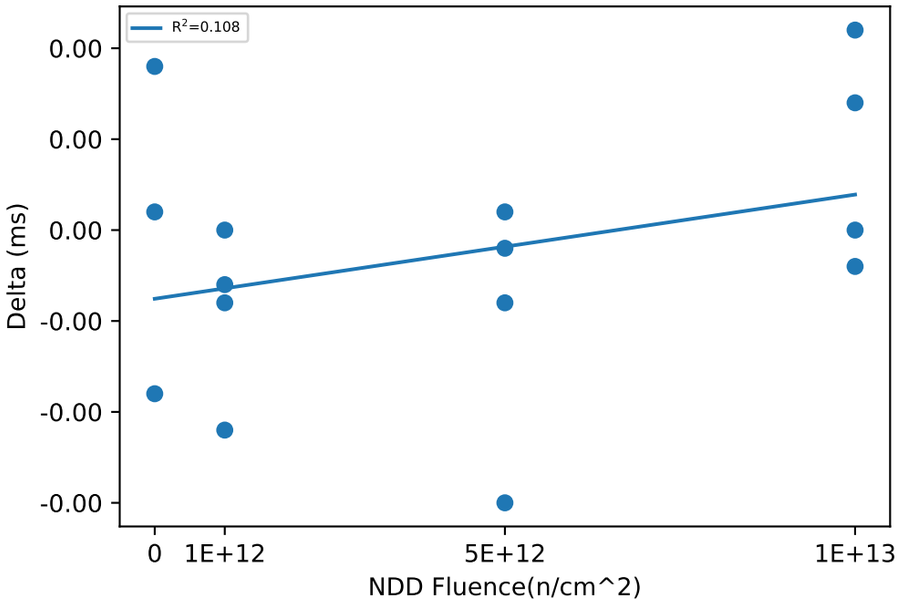
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5154	0.51913	0.5211	0.0032347	0.5154	0.51913	0.5211	0.0032347	0	0	0	0
1e+12	0.512	0.51615	0.5208	0.0041421	0.5118	0.51608	0.521	0.0042719	-0.0002	-7.5e-05	0.0002	0.0001893
5e+12	0.5165	0.51982	0.5248	0.0039152	0.5164	0.51987	0.5246	0.0038117	-0.0002	5e-05	0.0003	0.00023805
1e+13	0.5131	0.51495	0.5181	0.0021992	0.5139	0.51523	0.5186	0.0022603	-0.0003	0.000275	0.0009	0.00053151

Device Test: 5.42; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

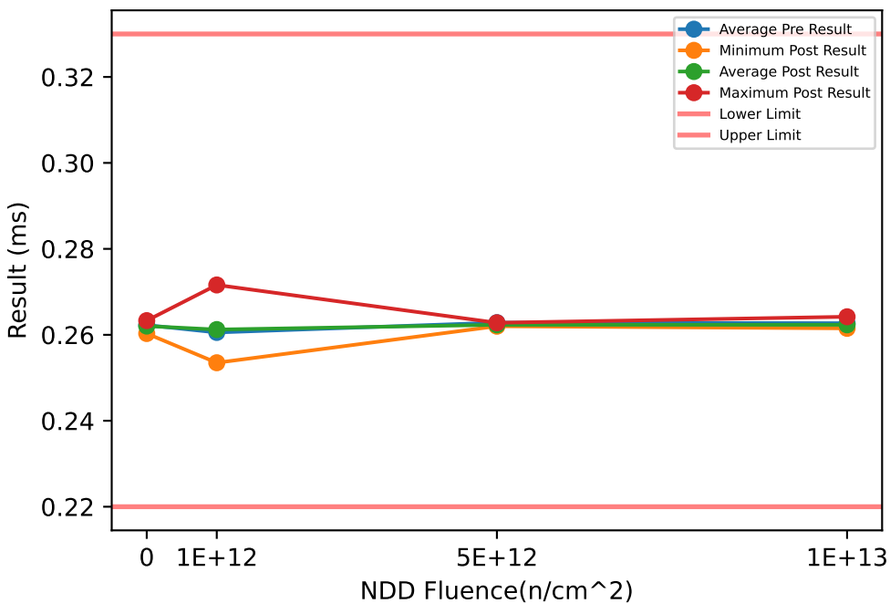
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2623	0.2619	-0.0004
304	1e+12	NDD Unbiased	0.2577	0.2566	-0.0011
305	1e+12	NDD Unbiased	0.27	0.27	0
306	1e+12	NDD Unbiased	0.2535	0.2532	-0.0003
307	5e+12	NDD Unbiased	0.2636	0.2635	-0.0001
308	5e+12	NDD Unbiased	0.2637	0.2633	-0.0004
309	5e+12	NDD Unbiased	0.2617	0.2618	0.0001
310	5e+12	NDD Unbiased	0.2633	0.2618	-0.0015
311	1e+13	NDD Unbiased	0.2616	0.2627	0.0011
312	1e+13	NDD Unbiased	0.2637	0.2635	-0.0002
313	1e+13	NDD Unbiased	0.2653	0.2653	0
314	1e+13	NDD Unbiased	0.2611	0.2618	0.0007
315	0	Correlation	0.2634	0.2625	-0.0009
316	0	Correlation	0.2638	0.2639	0.0001
317	0	Correlation	0.2611	0.262	0.0009

Test Statistics (ms)

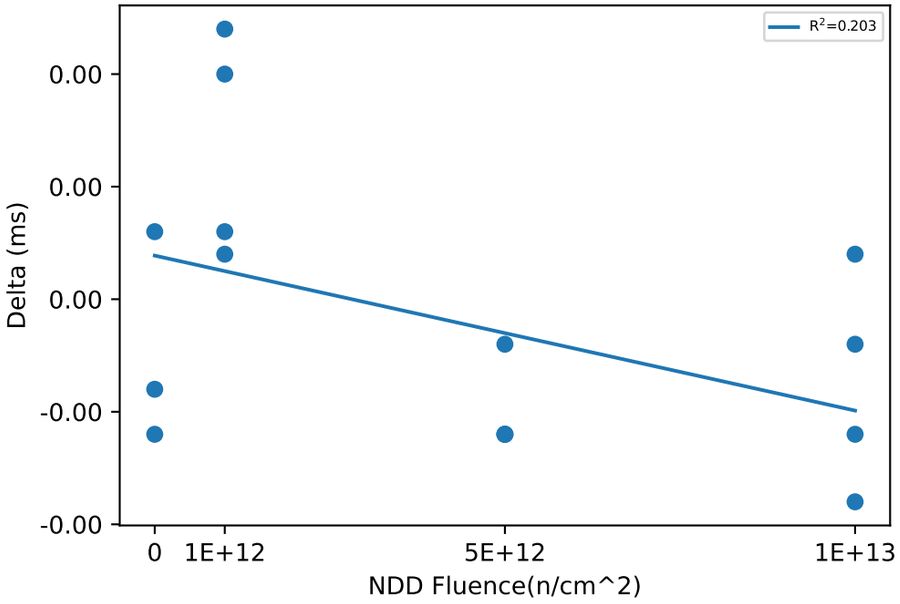
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2611	0.26277	0.2638	0.0014572	0.262	0.2628	0.2639	0.00098489	-0.0009	3.3333e-05	0.0009	0.00090185
1e+12	0.2535	0.26087	0.27	0.0070656	0.2532	0.26043	0.27	0.0073186	-0.0011	-0.00045	0	0.00046547
5e+12	0.2617	0.26308	0.2637	0.00093229	0.2618	0.2626	0.2635	0.00092736	-0.0015	-0.000475	0.0001	0.00071356
1e+13	0.2611	0.26292	0.2653	0.0019432	0.2618	0.26332	0.2653	0.0014886	-0.0002	0.0004	0.0011	0.00060553

Device Test: 5.43; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

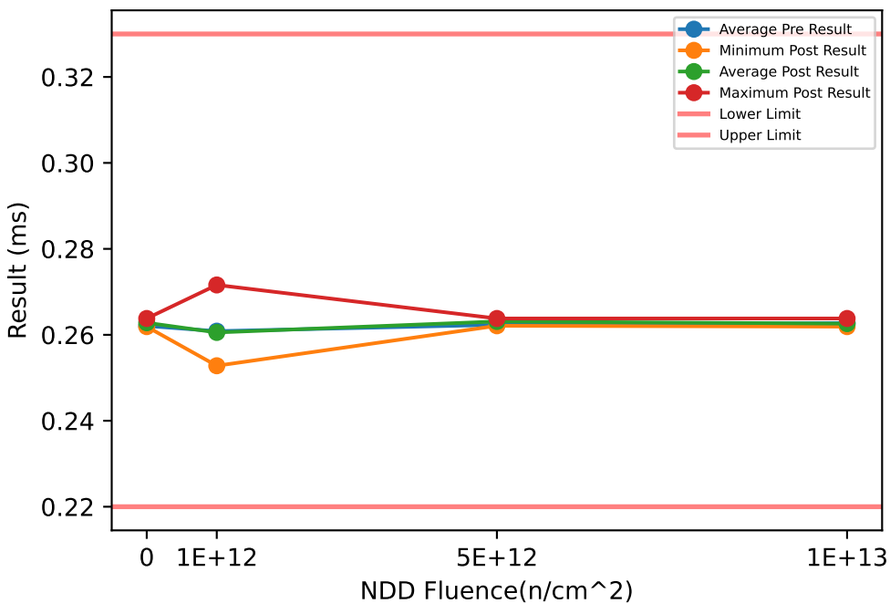
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2624	0.2626	0.0002
304	1e+12	NDD Unbiased	0.2562	0.2572	0.001
305	1e+12	NDD Unbiased	0.2704	0.2716	0.0012
306	1e+12	NDD Unbiased	0.2532	0.2535	0.0003
307	5e+12	NDD Unbiased	0.2626	0.262	-0.0006
308	5e+12	NDD Unbiased	0.2634	0.2628	-0.0006
309	5e+12	NDD Unbiased	0.2631	0.2625	-0.0006
310	5e+12	NDD Unbiased	0.2622	0.262	-0.0002
311	1e+13	NDD Unbiased	0.2627	0.2618	-0.0009
312	1e+13	NDD Unbiased	0.262	0.2618	-0.0002
313	1e+13	NDD Unbiased	0.2648	0.2642	-0.0006
314	1e+13	NDD Unbiased	0.2613	0.2615	0.0002
315	0	Correlation	0.263	0.2633	0.0003
316	0	Correlation	0.2629	0.2625	-0.0004
317	0	Correlation	0.2609	0.2603	-0.0006

Test Statistics (ms)

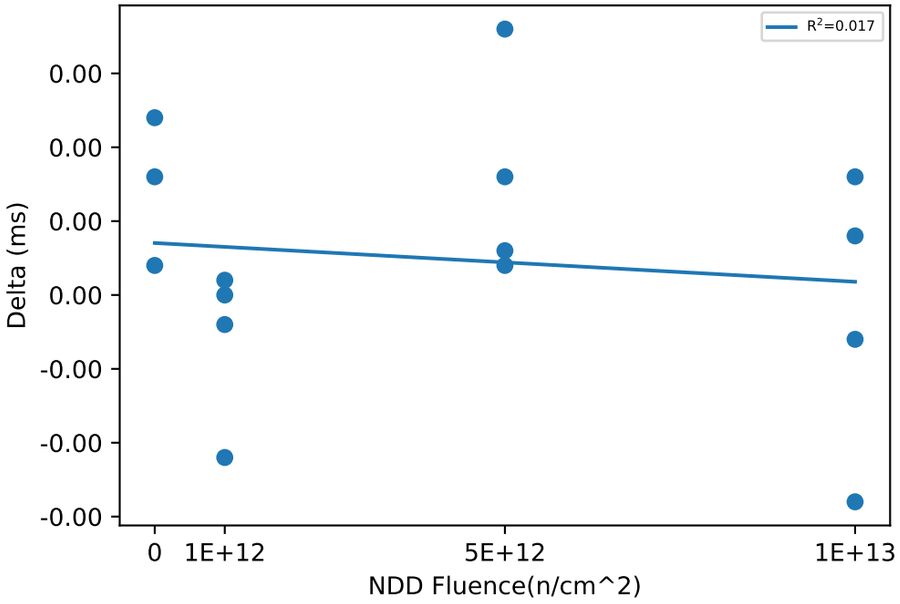
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2609	0.26227	0.263	0.0011846	0.2603	0.26203	0.2633	0.0015535	-0.0006	-0.00023333	0.0003	0.00047258
1e+12	0.2532	0.26055	0.2704	0.0076024	0.2535	0.26122	0.2716	0.0078615	0.0002	0.000675	0.0012	0.00049917
5e+12	0.2622	0.26282	0.2634	0.00053151	0.262	0.26233	0.2628	0.00039476	-0.0006	-0.0005	-0.0002	0.0002
1e+13	0.2613	0.2627	0.2648	0.0015122	0.2615	0.26232	0.2642	0.001258	-0.0009	-0.000375	0.0002	0.00047871

Device Test: 5.44; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



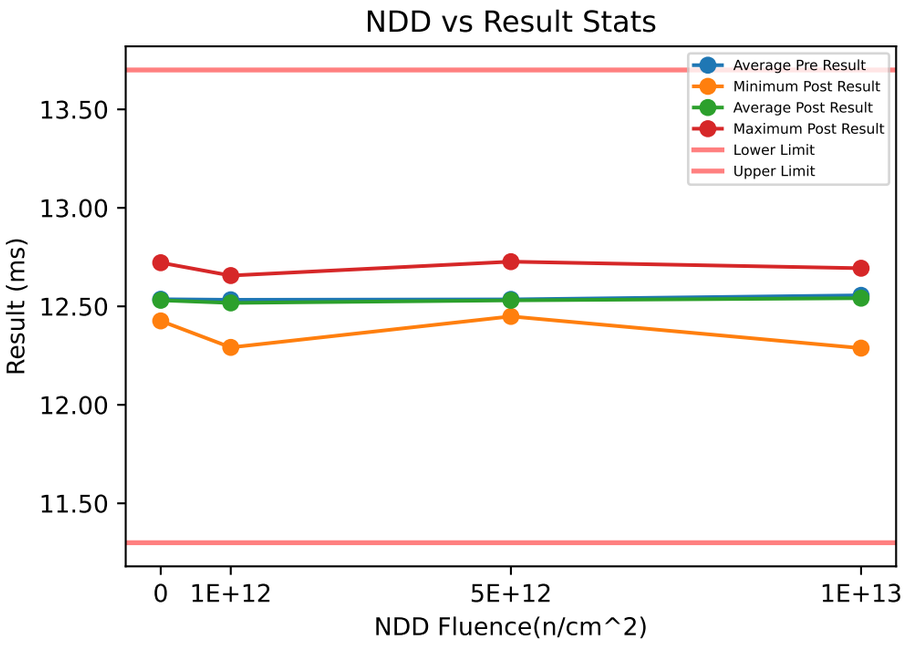
Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

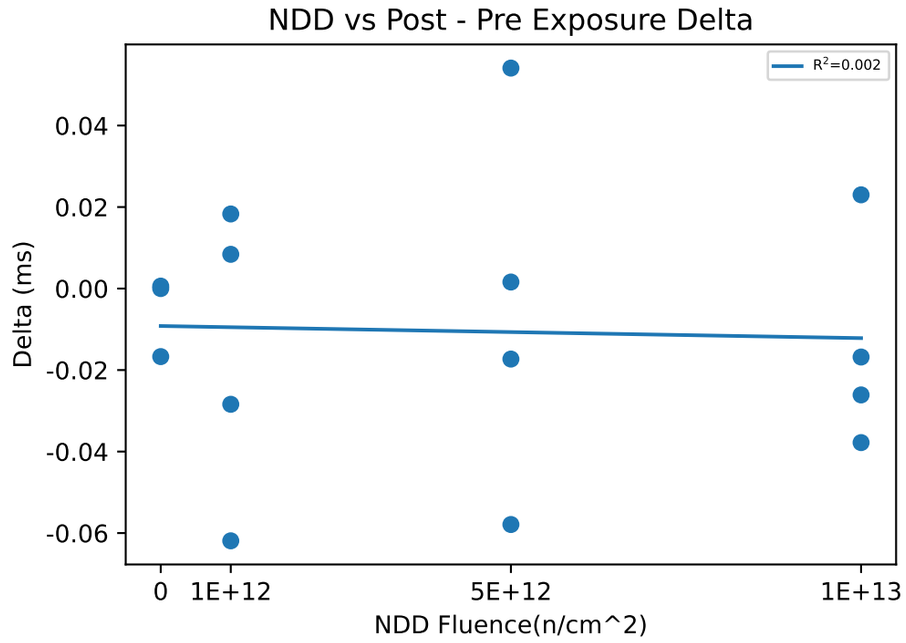
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2615	0.2616	0.0001
304	1e+12	NDD Unbiased	0.2562	0.2562	0
305	1e+12	NDD Unbiased	0.2718	0.2716	-0.0002
306	1e+12	NDD Unbiased	0.2539	0.2528	-0.0011
307	5e+12	NDD Unbiased	0.2627	0.2629	0.0002
308	5e+12	NDD Unbiased	0.2635	0.2638	0.0003
309	5e+12	NDD Unbiased	0.2618	0.2636	0.0018
310	5e+12	NDD Unbiased	0.2613	0.2621	0.0008
311	1e+13	NDD Unbiased	0.2611	0.2619	0.0008
312	1e+13	NDD Unbiased	0.2628	0.2625	-0.0003
313	1e+13	NDD Unbiased	0.2652	0.2638	-0.0014
314	1e+13	NDD Unbiased	0.2618	0.2622	0.0004
315	0	Correlation	0.2626	0.2638	0.0012
316	0	Correlation	0.2625	0.2627	0.0002
317	0	Correlation	0.2611	0.2619	0.0008

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2611	0.26207	0.2626	0.00083865	0.2619	0.2628	0.2638	0.00095394	0.0002	0.00073333	0.0012	0.00050332
1e+12	0.2539	0.26085	0.2718	0.0079635	0.2528	0.26055	0.2716	0.0082095	-0.0011	-0.0003	0.0001	0.00054772
5e+12	0.2613	0.26232	0.2635	0.00097425	0.2621	0.2631	0.2638	0.00077028	0.0002	0.000775	0.0018	0.00073201
1e+13	0.2611	0.26272	0.2652	0.0017914	0.2619	0.2626	0.2638	0.00083666	-0.0014	-0.000125	0.0008	0.00096393

Device Test: 5.45; DLY_TMR_500KOHM





Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

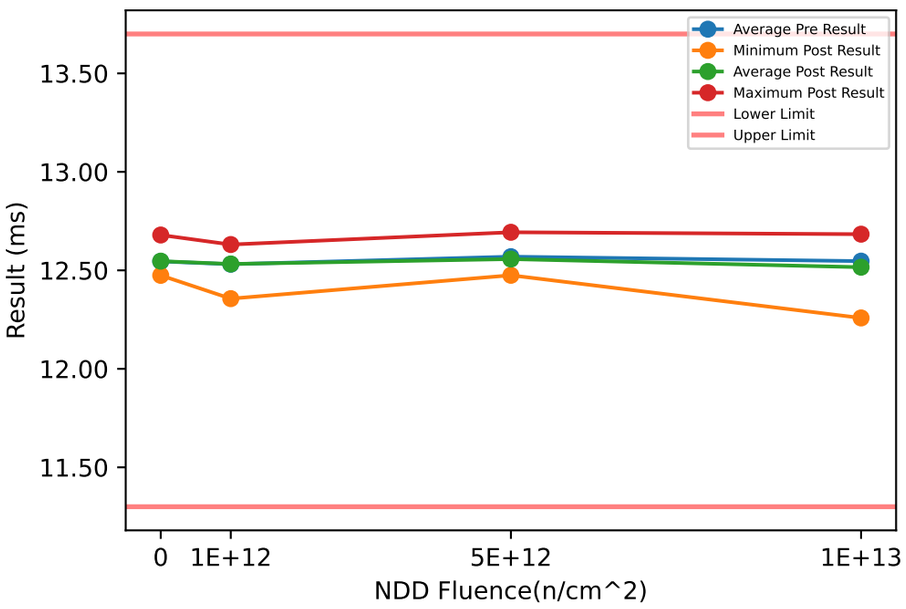
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.469	12.487	0.0183
304	1e+12	NDD Unbiased	12.648	12.656	0.0084
305	1e+12	NDD Unbiased	12.663	12.635	-0.0284
306	1e+12	NDD Unbiased	12.354	12.292	-0.0619
307	5e+12	NDD Unbiased	12.533	12.475	-0.0579
308	5e+12	NDD Unbiased	12.488	12.471	-0.0173
309	5e+12	NDD Unbiased	12.447	12.449	0.0016
310	5e+12	NDD Unbiased	12.673	12.727	0.0541
311	1e+13	NDD Unbiased	12.731	12.694	-0.0378
312	1e+13	NDD Unbiased	12.586	12.569	-0.0168
313	1e+13	NDD Unbiased	12.641	12.615	-0.0261
314	1e+13	NDD Unbiased	12.265	12.288	0.023
315	0	Correlation	12.738	12.722	-0.0167
316	0	Correlation	12.425	12.426	0.0006
317	0	Correlation	12.444	12.444	0

Test Statistics (ms)

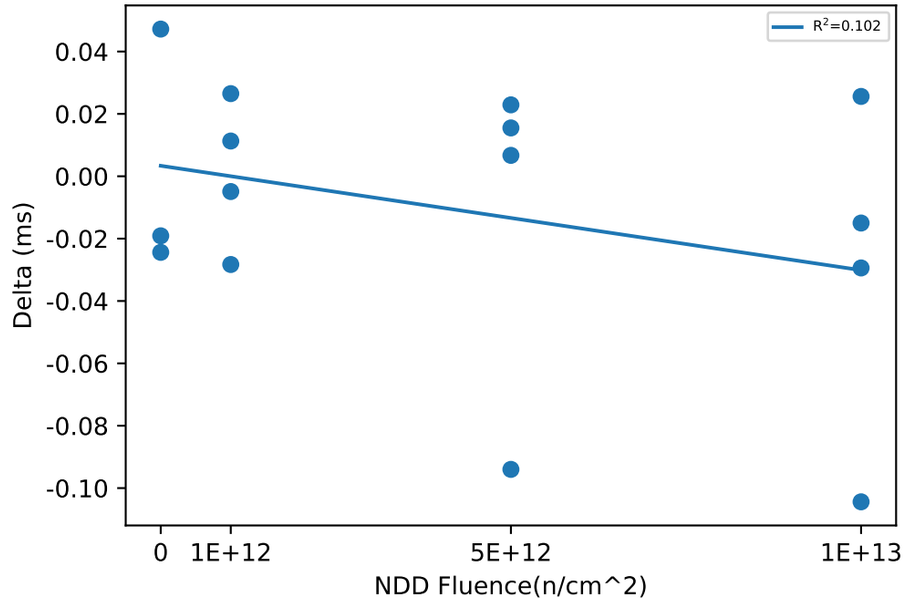
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.425	12.536	12.738	0.17534	12.426	12.531	12.722	0.16552	-0.0167	-0.0053667	0.0006	0.0098195
1e+12	12.354	12.533	12.663	0.14889	12.292	12.517	12.656	0.16831	-0.0619	-0.0159	0.0183	0.036662
5e+12	12.447	12.535	12.673	0.098105	12.449	12.53	12.727	0.13144	-0.0579	-0.004875	0.0541	0.046497
1e+13	12.265	12.556	12.731	0.20302	12.288	12.541	12.694	0.17665	-0.0378	-0.014425	0.023	0.026388

Device Test: 5.46; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

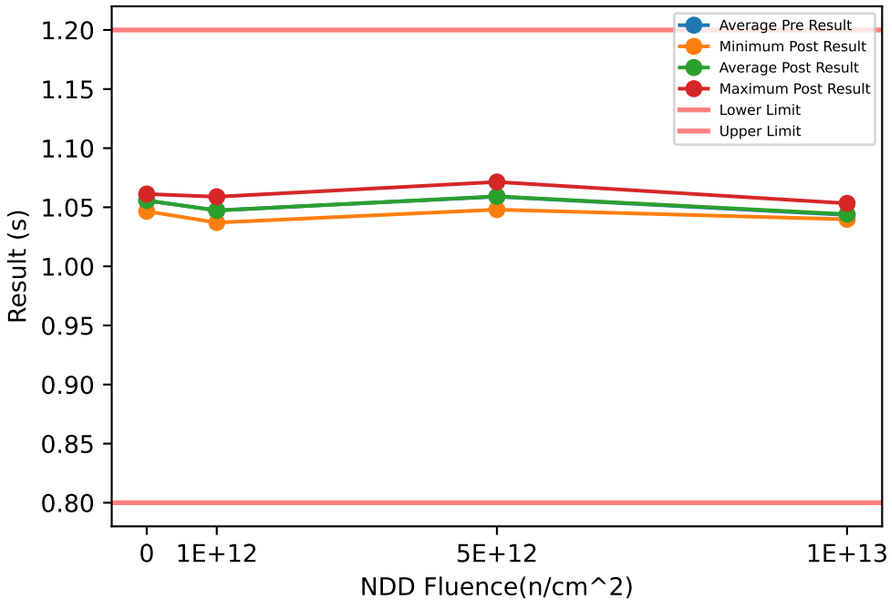
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.527	12.522	-0.0049
304	1e+12	NDD Unbiased	12.648	12.62	-0.0283
305	1e+12	NDD Unbiased	12.62	12.631	0.0113
306	1e+12	NDD Unbiased	12.33	12.356	0.0265
307	5e+12	NDD Unbiased	12.569	12.475	-0.094
308	5e+12	NDD Unbiased	12.522	12.545	0.0229
309	5e+12	NDD Unbiased	12.509	12.515	0.0067
310	5e+12	NDD Unbiased	12.678	12.693	0.0155
311	1e+13	NDD Unbiased	12.699	12.684	-0.015
312	1e+13	NDD Unbiased	12.665	12.56	-0.1044
313	1e+13	NDD Unbiased	12.591	12.562	-0.0294
314	1e+13	NDD Unbiased	12.233	12.258	0.0256
315	0	Correlation	12.704	12.679	-0.0244
316	0	Correlation	12.494	12.475	-0.0191
317	0	Correlation	12.439	12.486	0.0472

Test Statistics (ms)

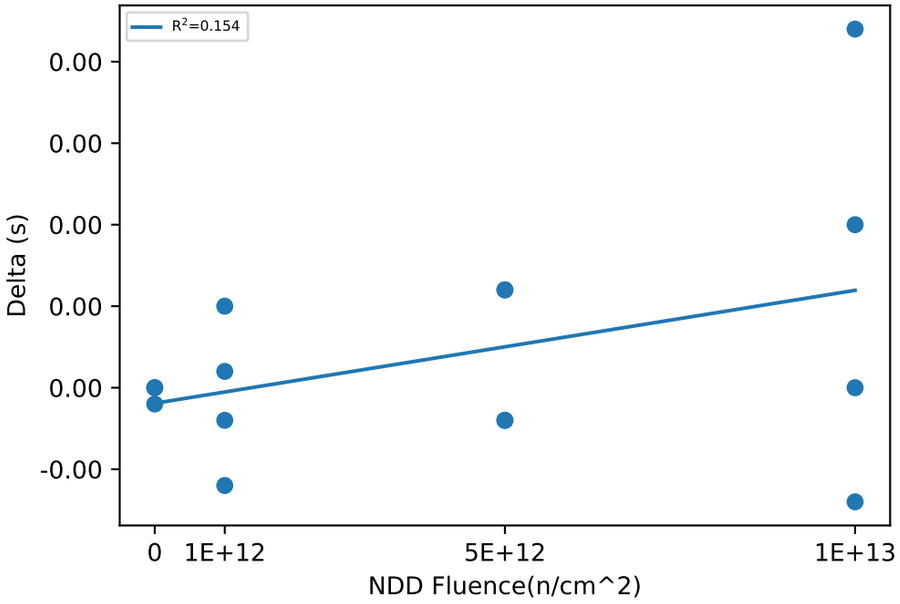
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.439	12.545	12.704	0.13987	12.475	12.547	12.679	0.11509	-0.0244	0.0012333	0.0472	0.039896
1e+12	12.33	12.531	12.648	0.14372	12.356	12.532	12.631	0.127	-0.0283	0.00115	0.0265	0.023449
5e+12	12.509	12.569	12.678	0.076711	12.475	12.557	12.693	0.095198	-0.094	-0.012225	0.0229	0.054917
1e+13	12.233	12.547	12.699	0.2141	12.258	12.516	12.684	0.1812	-0.1044	-0.0308	0.0256	0.054312

Device Test: 5.47; WD_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



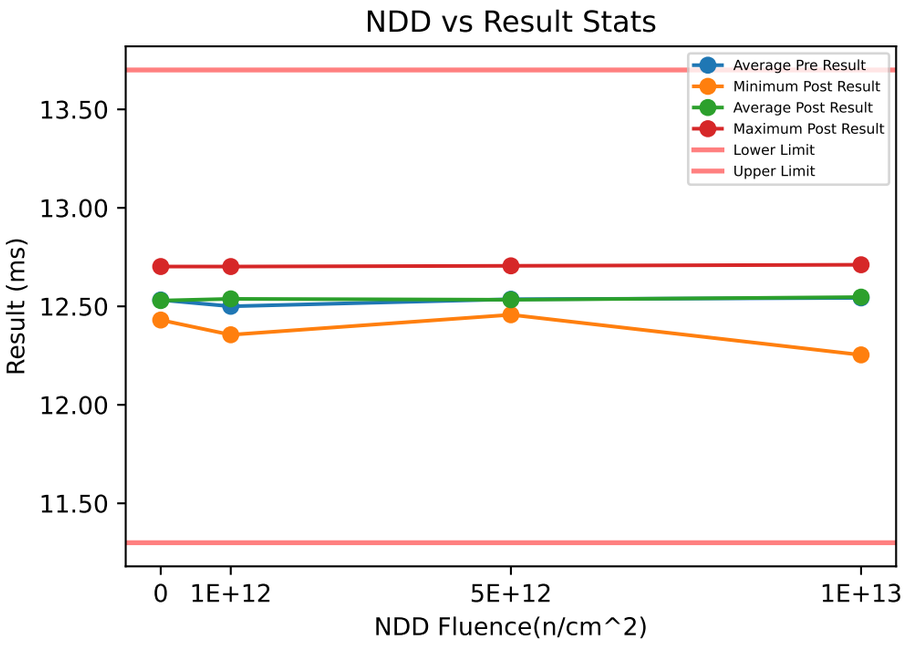
Test Results (Lower Limit = 0.8, Upper Limit = 1.2 (s))

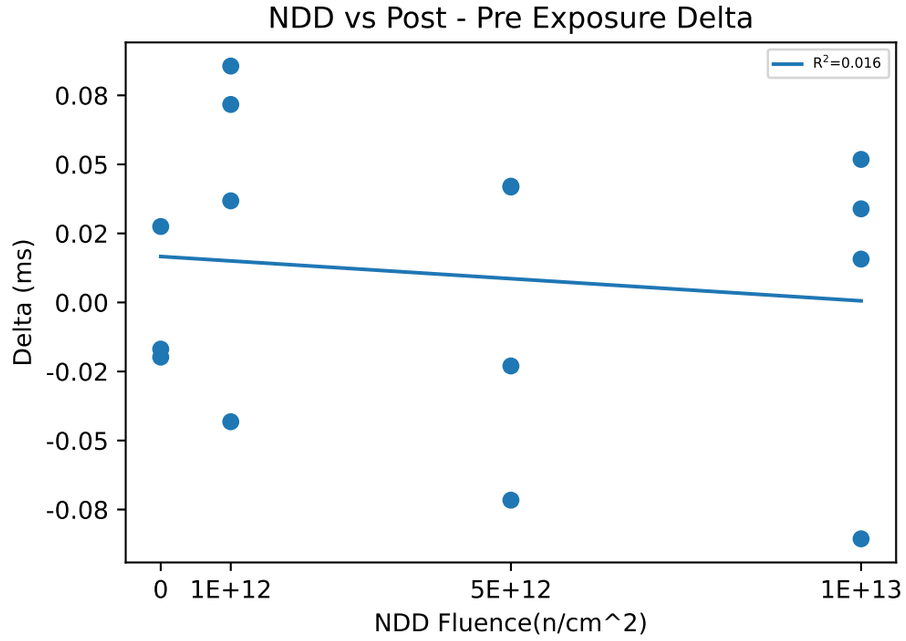
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.0376	1.037	-0.0006
304	1e+12	NDD Unbiased	1.0527	1.0528	0.0001
305	1e+12	NDD Unbiased	1.0584	1.0589	0.0005
306	1e+12	NDD Unbiased	1.0406	1.0404	-0.0002
307	5e+12	NDD Unbiased	1.0716	1.0714	-0.0002
308	5e+12	NDD Unbiased	1.0482	1.048	-0.0002
309	5e+12	NDD Unbiased	1.0521	1.0527	0.0006
310	5e+12	NDD Unbiased	1.0641	1.0647	0.0006
311	1e+13	NDD Unbiased	1.0398	1.0398	0
312	1e+13	NDD Unbiased	1.0392	1.0414	0.0022
313	1e+13	NDD Unbiased	1.0427	1.042	-0.0007
314	1e+13	NDD Unbiased	1.0523	1.0533	0.001
315	0	Correlation	1.0467	1.0466	-0.0001
316	0	Correlation	1.0593	1.0593	0
317	0	Correlation	1.0612	1.0612	0

Test Statistics (s)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0467	1.0557	1.0612	0.0078806	1.0466	1.0557	1.0612	0.0079379	-0.0001	-3.3333e-05	0	5.7735e-05
1e+12	1.0376	1.0473	1.0584	0.0098547	1.037	1.0473	1.0589	0.010304	-0.0006	-5e-05	0.0005	0.00046547
5e+12	1.0482	1.059	1.0716	0.010786	1.048	1.0592	1.0714	0.010751	-0.0002	0.0002	0.0006	0.00046188
1e+13	1.0392	1.0435	1.0523	0.0060625	1.0398	1.0441	1.0533	0.0061867	-0.0007	0.000625	0.0022	0.0012606

Device Test: 5.48; DLY_TMR_500KOHM





Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

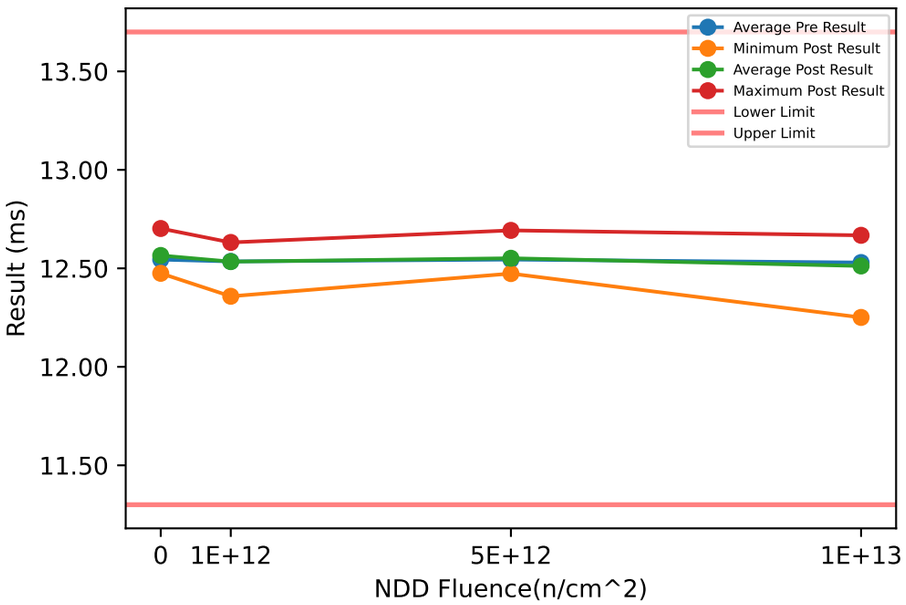
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.452	12.489	0.0368
304	1e+12	NDD Unbiased	12.616	12.702	0.0856
305	1e+12	NDD Unbiased	12.648	12.605	-0.0432
306	1e+12	NDD Unbiased	12.284	12.356	0.0717
307	5e+12	NDD Unbiased	12.565	12.494	-0.0716
308	5e+12	NDD Unbiased	12.48	12.457	-0.023
309	5e+12	NDD Unbiased	12.436	12.477	0.0418
310	5e+12	NDD Unbiased	12.664	12.706	0.0421
311	1e+13	NDD Unbiased	12.695	12.711	0.0157
312	1e+13	NDD Unbiased	12.663	12.578	-0.0856
313	1e+13	NDD Unbiased	12.611	12.645	0.0339
314	1e+13	NDD Unbiased	12.202	12.254	0.0518
315	0	Correlation	12.675	12.702	0.0275
316	0	Correlation	12.45	12.431	-0.0198
317	0	Correlation	12.472	12.455	-0.0169

Test Statistics (ms)

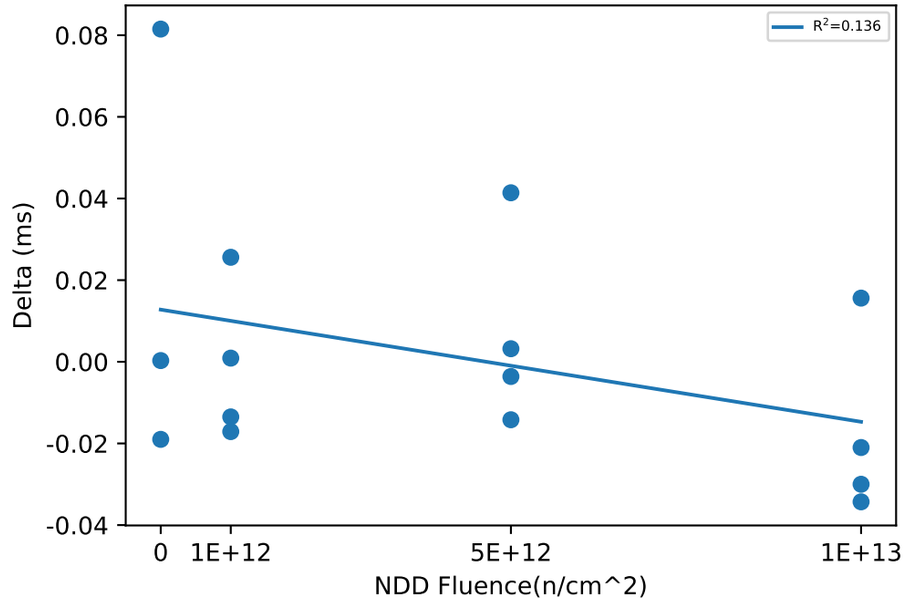
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.45	12.532	12.675	0.12366	12.431	12.529	12.702	0.15016	-0.0198	-0.0030667	0.0275	0.026511
1e+12	12.284	12.5	12.648	0.16784	12.356	12.538	12.702	0.14949	-0.0432	0.037725	0.0856	0.057724
5e+12	12.436	12.536	12.664	0.10055	12.457	12.533	12.706	0.11578	-0.0716	-0.002675	0.0421	0.055217
1e+13	12.202	12.543	12.695	0.23004	12.254	12.547	12.711	0.20294	-0.0856	0.00395	0.0518	0.061492

Device Test: 5.49; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



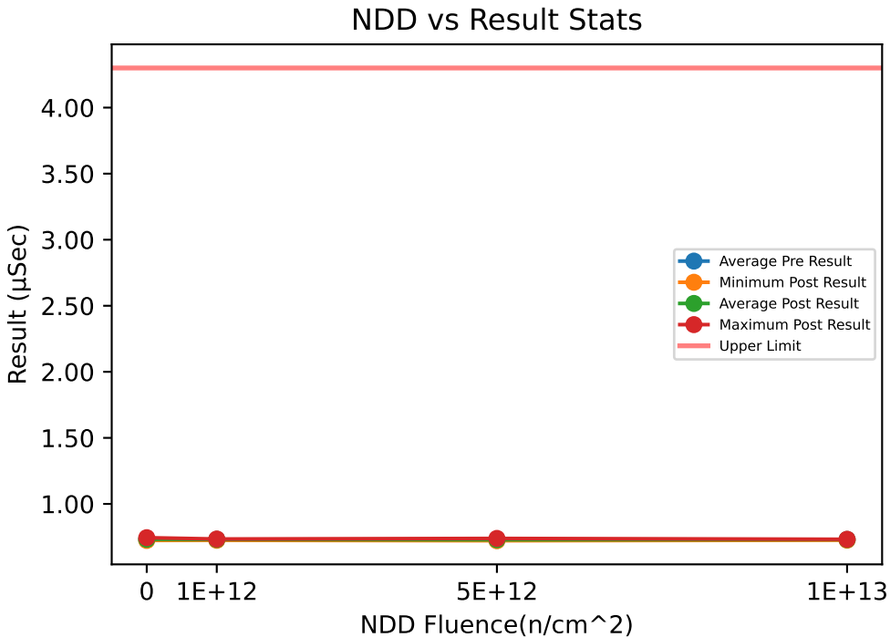
Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

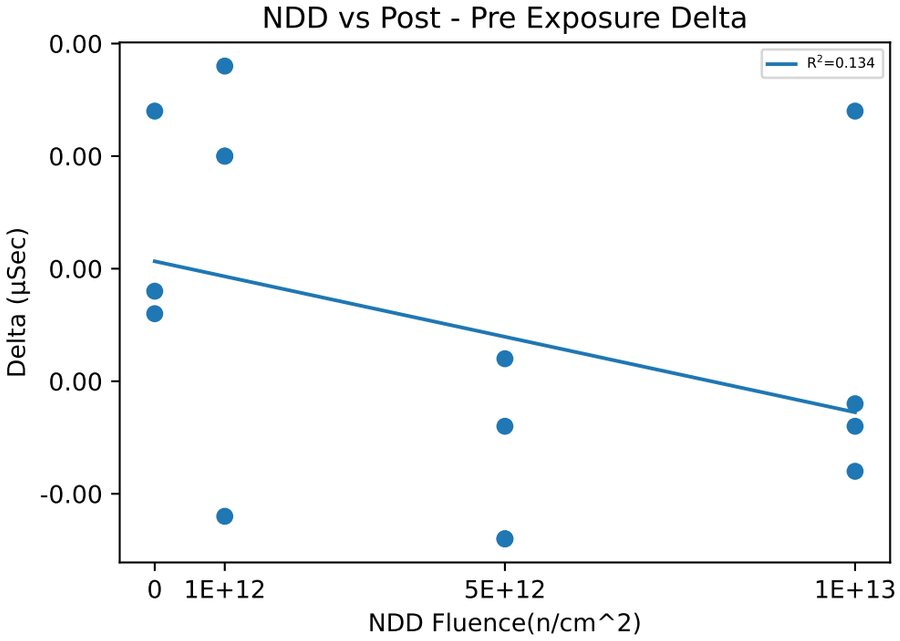
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.54	12.523	-0.0171
304	1e+12	NDD Unbiased	12.637	12.624	-0.0135
305	1e+12	NDD Unbiased	12.631	12.632	0.0009
306	1e+12	NDD Unbiased	12.333	12.358	0.0256
307	5e+12	NDD Unbiased	12.488	12.473	-0.0142
308	5e+12	NDD Unbiased	12.519	12.522	0.0032
309	5e+12	NDD Unbiased	12.475	12.517	0.0414
310	5e+12	NDD Unbiased	12.696	12.693	-0.0036
311	1e+13	NDD Unbiased	12.698	12.668	-0.03
312	1e+13	NDD Unbiased	12.578	12.557	-0.021
313	1e+13	NDD Unbiased	12.607	12.572	-0.0343
314	1e+13	NDD Unbiased	12.235	12.251	0.0156
315	0	Correlation	12.702	12.702	0.0003
316	0	Correlation	12.494	12.475	-0.019
317	0	Correlation	12.437	12.519	0.0815

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.437	12.544	12.702	0.13937	12.475	12.565	12.702	0.12065	-0.019	0.020933	0.0815	0.053333
1e+12	12.333	12.535	12.637	0.14217	12.358	12.534	12.632	0.12733	-0.0171	-0.001025	0.0256	0.019379
5e+12	12.475	12.544	12.696	0.10287	12.473	12.551	12.693	0.096816	-0.0142	0.0067	0.0414	0.024216
1e+13	12.235	12.53	12.698	0.2027	12.251	12.512	12.668	0.18091	-0.0343	-0.017425	0.0156	0.022703

Device Test: 5.5; PROPD_RESET





Test Results (Upper Limit = 4.3 (µSec))

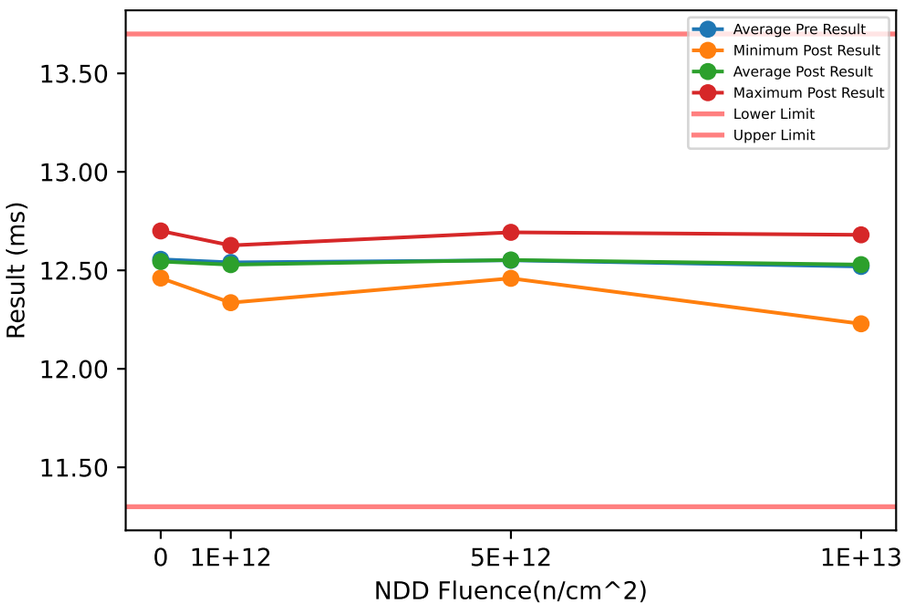
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7303	0.7317	0.0014
304	1e+12	NDD Unbiased	0.7333	0.7343	0.001
305	1e+12	NDD Unbiased	0.7253	0.7247	-0.0006
306	1e+12	NDD Unbiased	0.7312	0.7322	0.001
307	5e+12	NDD Unbiased	0.7336	0.7329	-0.0007
308	5e+12	NDD Unbiased	0.7227	0.7225	-0.0002
309	5e+12	NDD Unbiased	0.7386	0.7387	0.0001
310	5e+12	NDD Unbiased	0.7221	0.7214	-0.0007
311	1e+13	NDD Unbiased	0.7314	0.731	-0.0004
312	1e+13	NDD Unbiased	0.7311	0.7323	0.0012
313	1e+13	NDD Unbiased	0.7255	0.7254	-0.0001
314	1e+13	NDD Unbiased	0.7321	0.7319	-0.0002
315	0	Correlation	0.7276	0.7288	0.0012
316	0	Correlation	0.7233	0.7236	0.0003
317	0	Correlation	0.7439	0.7443	0.0004

Test Statistics (µSec)

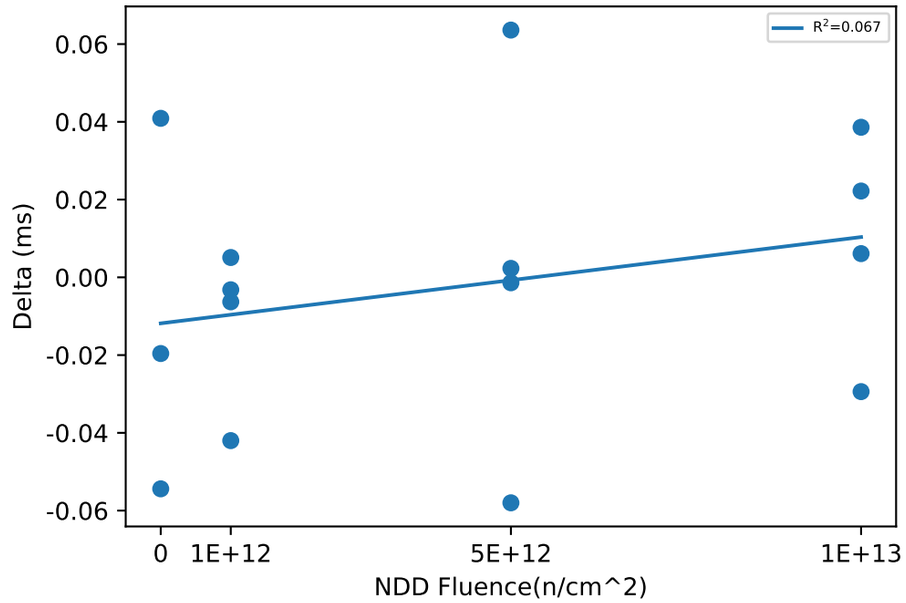
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7233	0.7316	0.7439	0.010867	0.7236	0.73223	0.7443	0.010769	0.0003	0.00063333	0.0012	0.00049329
1e+12	0.7253	0.73002	0.7333	0.0033915	0.7247	0.73072	0.7343	0.0041716	-0.0006	0.0007	0.0014	0.00088694
5e+12	0.7221	0.72925	0.7386	0.0081725	0.7214	0.72888	0.7387	0.0083516	-0.0007	-0.000375	0.0001	0.00039476
1e+13	0.7255	0.73003	0.7321	0.0030456	0.7254	0.73015	0.7323	0.003213	-0.0004	0.000125	0.0012	0.00072744

Device Test: 5.50; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

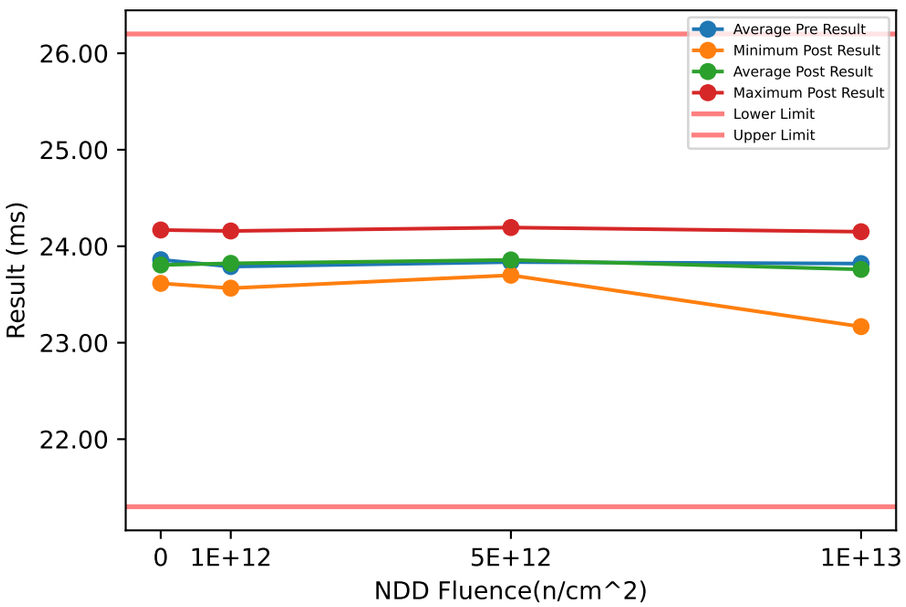
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.54	12.534	-0.0063
304	1e+12	NDD Unbiased	12.63	12.627	-0.0032
305	1e+12	NDD Unbiased	12.661	12.619	-0.042
306	1e+12	NDD Unbiased	12.331	12.336	0.0051
307	5e+12	NDD Unbiased	12.483	12.547	0.0636
308	5e+12	NDD Unbiased	12.517	12.459	-0.058
309	5e+12	NDD Unbiased	12.509	12.511	0.0023
310	5e+12	NDD Unbiased	12.694	12.693	-0.0014
311	1e+13	NDD Unbiased	12.674	12.68	0.0061
312	1e+13	NDD Unbiased	12.592	12.631	0.0386
313	1e+13	NDD Unbiased	12.606	12.576	-0.0294
314	1e+13	NDD Unbiased	12.207	12.229	0.0222
315	0	Correlation	12.659	12.7	0.0409
316	0	Correlation	12.48	12.461	-0.0196
317	0	Correlation	12.528	12.474	-0.0544

Test Statistics (ms)

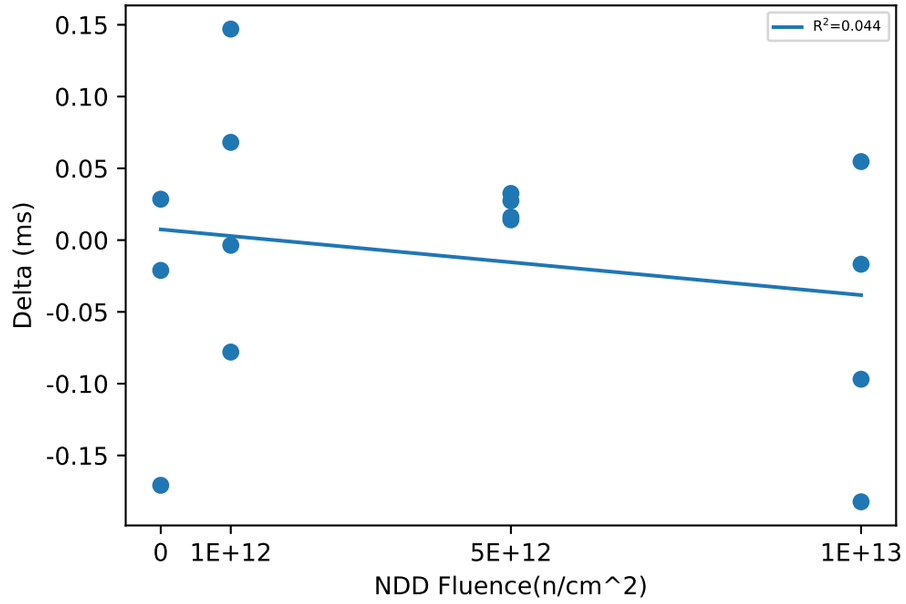
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.48	12.556	12.659	0.092499	12.461	12.545	12.7	0.13448	-0.0544	-0.011033	0.0409	0.048224
1e+12	12.331	12.54	12.661	0.14879	12.336	12.529	12.627	0.13528	-0.042	-0.0116	0.0051	0.02083
5e+12	12.483	12.551	12.694	0.096725	12.459	12.553	12.693	0.10023	-0.058	0.001625	0.0636	0.049684
1e+13	12.207	12.52	12.674	0.21184	12.229	12.529	12.68	0.2047	-0.0294	0.009375	0.0386	0.029056

Device Test: 5.51; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

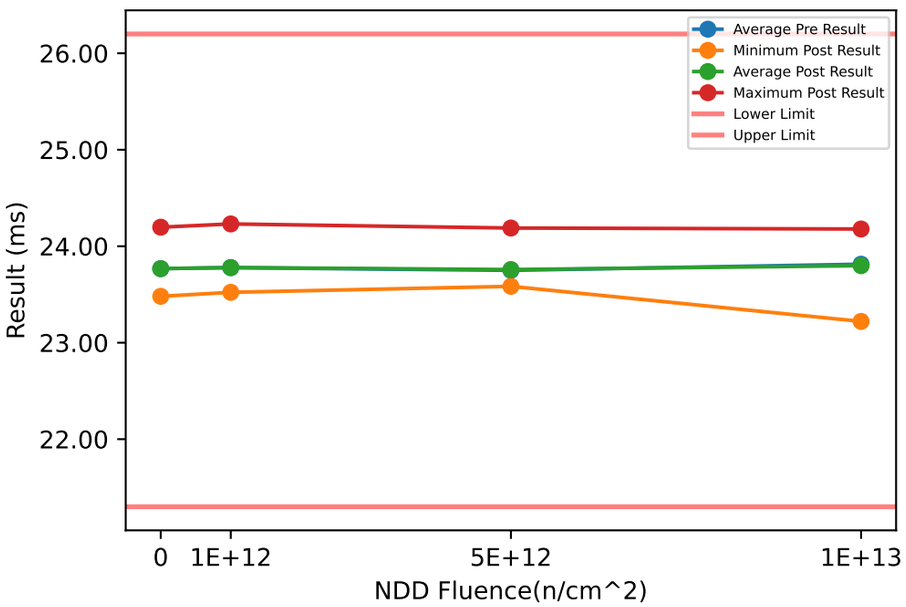
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.569	23.565	-0.0036
304	1e+12	NDD Unbiased	24.236	24.158	-0.078
305	1e+12	NDD Unbiased	23.759	23.906	0.147
306	1e+12	NDD Unbiased	23.592	23.66	0.0681
307	5e+12	NDD Unbiased	23.789	23.816	0.0274
308	5e+12	NDD Unbiased	23.667	23.699	0.0325
309	5e+12	NDD Unbiased	23.706	23.722	0.0161
310	5e+12	NDD Unbiased	24.18	24.194	0.0141
311	1e+13	NDD Unbiased	24.167	24.15	-0.0168
312	1e+13	NDD Unbiased	23.959	23.862	-0.0969
313	1e+13	NDD Unbiased	24.042	23.86	-0.1823
314	1e+13	NDD Unbiased	23.112	23.167	0.0547
315	0	Correlation	24.189	24.168	-0.0211
316	0	Correlation	23.606	23.634	0.0285
317	0	Correlation	23.786	23.615	-0.1708

Test Statistics (ms)

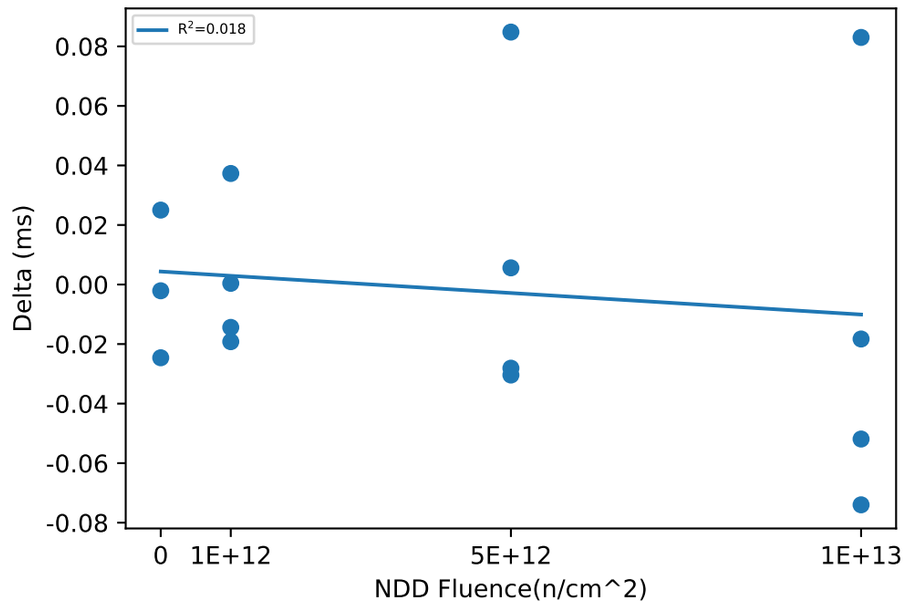
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.606	23.86	24.189	0.29894	23.615	23.806	24.168	0.31408	-0.1708	-0.054467	0.0285	0.10376
1e+12	23.569	23.789	24.236	0.30983	23.565	23.823	24.158	0.26593	-0.078	0.033375	0.147	0.096416
5e+12	23.667	23.835	24.18	0.2352	23.699	23.858	24.194	0.22966	0.0141	0.022525	0.0325	0.0088605
1e+13	23.112	23.82	24.167	0.47978	23.167	23.76	24.15	0.41827	-0.1823	-0.060325	0.0547	0.10221

Device Test: 5.52; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

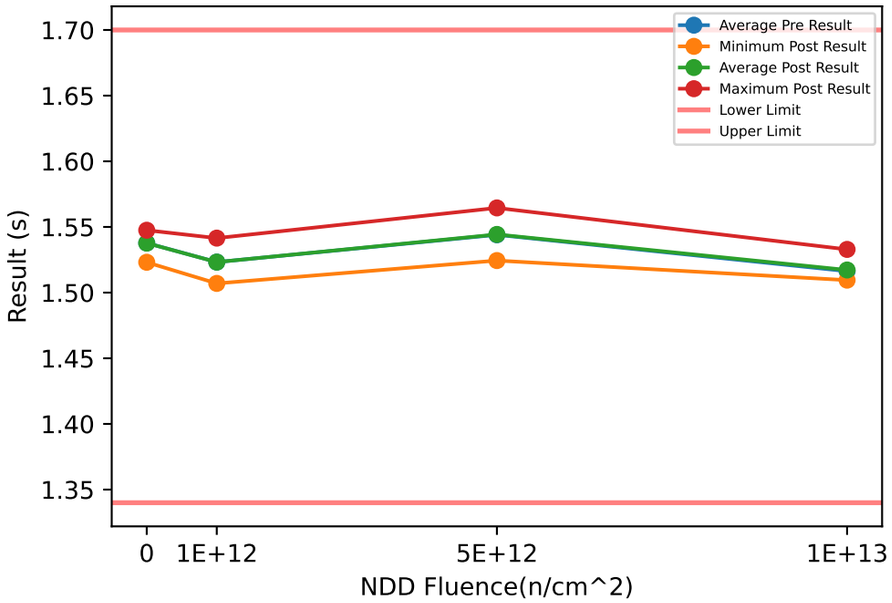
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.587	23.587	0.0004
304	1e+12	NDD Unbiased	24.25	24.231	-0.0192
305	1e+12	NDD Unbiased	23.79	23.776	-0.0144
306	1e+12	NDD Unbiased	23.485	23.522	0.0373
307	5e+12	NDD Unbiased	23.689	23.661	-0.0281
308	5e+12	NDD Unbiased	23.514	23.599	0.0848
309	5e+12	NDD Unbiased	23.579	23.584	0.0056
310	5e+12	NDD Unbiased	24.219	24.189	-0.0304
311	1e+13	NDD Unbiased	24.197	24.178	-0.0183
312	1e+13	NDD Unbiased	23.978	23.904	-0.074
313	1e+13	NDD Unbiased	23.941	23.89	-0.0519
314	1e+13	NDD Unbiased	23.138	23.221	0.083
315	0	Correlation	24.172	24.197	0.025
316	0	Correlation	23.483	23.481	-0.0021
317	0	Correlation	23.649	23.625	-0.0246

Test Statistics (ms)

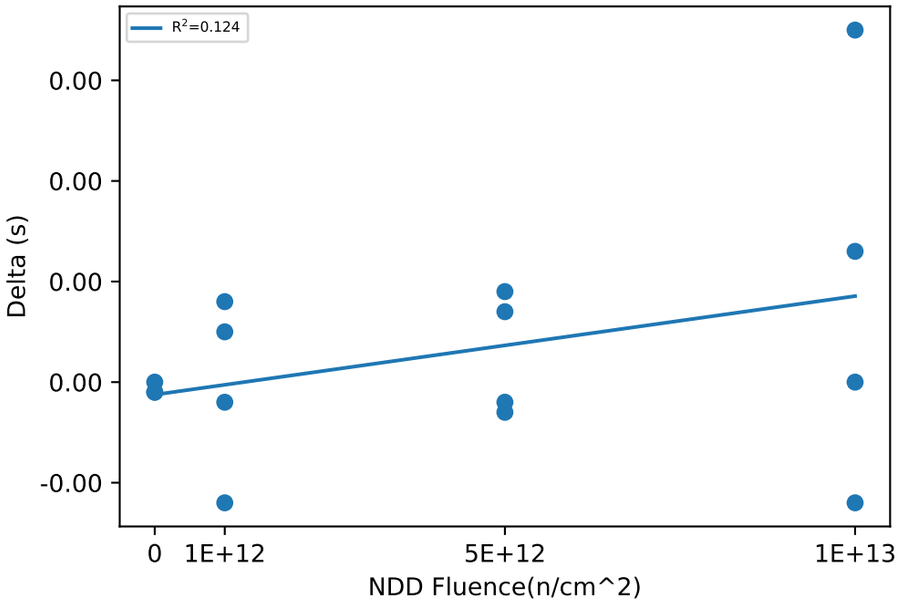
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.483	23.768	24.172	0.35976	23.481	23.767	24.197	0.37904	-0.0246	-0.00056667	0.025	0.024836
1e+12	23.485	23.778	24.25	0.33946	23.522	23.779	24.231	0.31998	-0.0192	0.001025	0.0373	0.025582
5e+12	23.514	23.75	24.219	0.32077	23.584	23.758	24.189	0.28887	-0.0304	0.007975	0.0848	0.053795
1e+13	23.138	23.814	24.197	0.46439	23.221	23.798	24.178	0.40726	-0.074	-0.0153	0.083	0.069419

Device Test: 5.53; WD_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.34, Upper Limit = 1.7 (s))

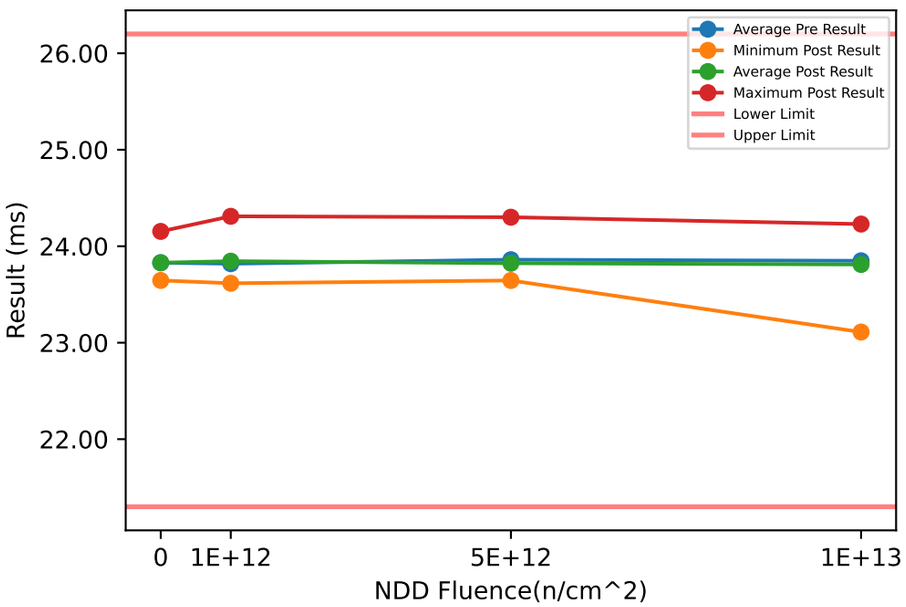
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.5082	1.507	-0.0012
304	1e+12	NDD Unbiased	1.5316	1.5321	0.0005
305	1e+12	NDD Unbiased	1.5407	1.5415	0.0008
306	1e+12	NDD Unbiased	1.5125	1.5123	-0.0002
307	5e+12	NDD Unbiased	1.5647	1.5645	-0.0002
308	5e+12	NDD Unbiased	1.5247	1.5244	-0.0003
309	5e+12	NDD Unbiased	1.5328	1.5335	0.0007
310	5e+12	NDD Unbiased	1.5539	1.5548	0.0009
311	1e+13	NDD Unbiased	1.5095	1.5095	0
312	1e+13	NDD Unbiased	1.5094	1.5129	0.0035
313	1e+13	NDD Unbiased	1.5148	1.5136	-0.0012
314	1e+13	NDD Unbiased	1.5316	1.5329	0.0013
315	0	Correlation	1.5232	1.5231	-0.0001
316	0	Correlation	1.5425	1.5425	0
317	0	Correlation	1.5476	1.5475	-0.0001

Test Statistics (s)

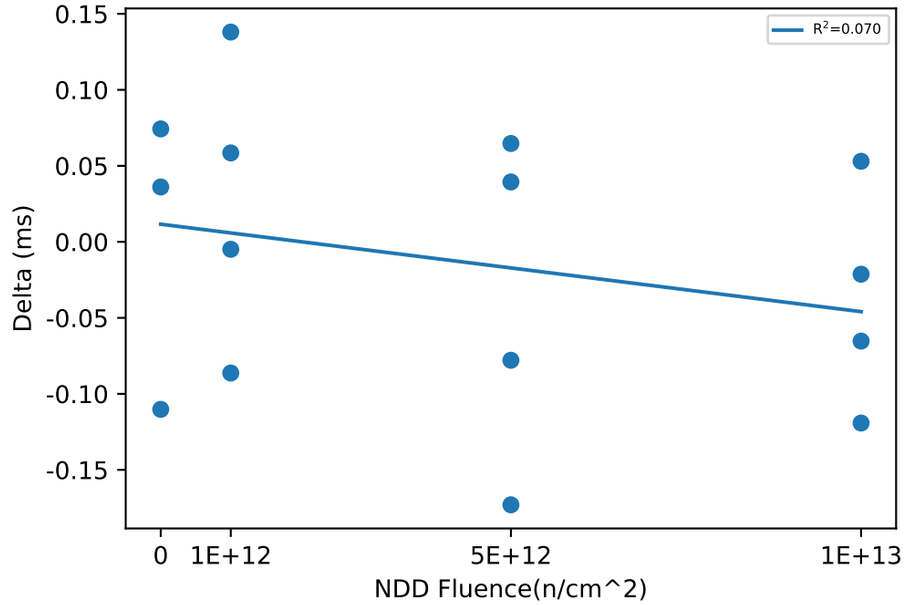
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5232	1.5378	1.5476	0.01287	1.5231	1.5377	1.5475	0.012889	-0.0001	-6.6667e-05	0	5.7735e-05
1e+12	1.5082	1.5232	1.5407	0.015452	1.507	1.5232	1.5415	0.016282	-0.0012	-2.5e-05	0.0008	0.00088835
5e+12	1.5247	1.544	1.5647	0.018479	1.5244	1.5443	1.5645	0.018538	-0.0003	0.000275	0.0009	0.00061305
1e+13	1.5094	1.5163	1.5316	0.010491	1.5095	1.5172	1.5329	0.010602	-0.0012	0.0009	0.0035	0.0020116

Device Test: 5.54; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

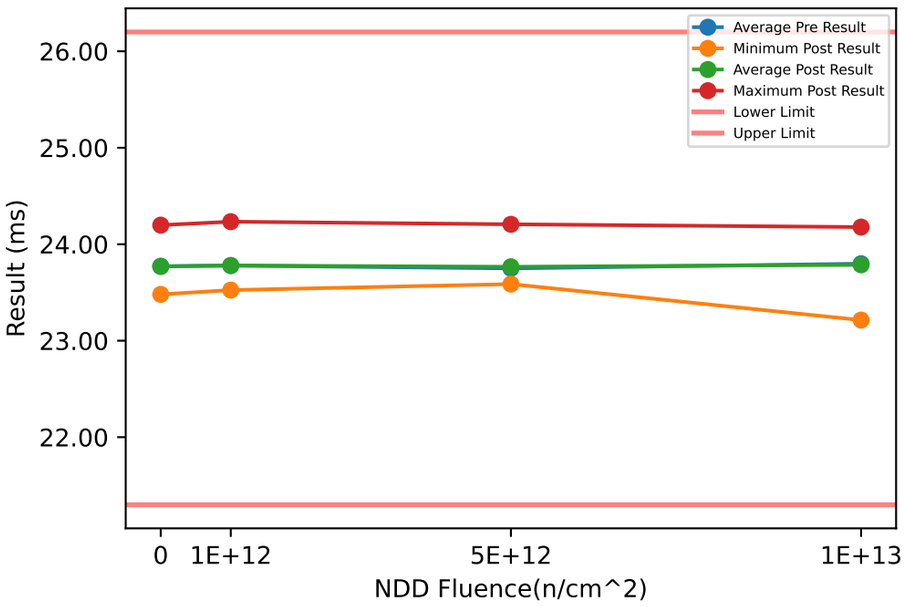
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.621	23.616	-0.0049
304	1e+12	NDD Unbiased	24.252	24.31	0.0585
305	1e+12	NDD Unbiased	23.911	23.825	-0.0863
306	1e+12	NDD Unbiased	23.492	23.63	0.138
307	5e+12	NDD Unbiased	23.818	23.645	-0.173
308	5e+12	NDD Unbiased	23.661	23.701	0.0394
309	5e+12	NDD Unbiased	23.726	23.648	-0.0779
310	5e+12	NDD Unbiased	24.236	24.301	0.0647
311	1e+13	NDD Unbiased	24.177	24.23	0.053
312	1e+13	NDD Unbiased	24.051	23.932	-0.1192
313	1e+13	NDD Unbiased	23.993	23.971	-0.0213
314	1e+13	NDD Unbiased	23.176	23.11	-0.0653
315	0	Correlation	24.264	24.154	-0.1102
316	0	Correlation	23.609	23.645	0.0361
317	0	Correlation	23.613	23.688	0.0743

Test Statistics (ms)

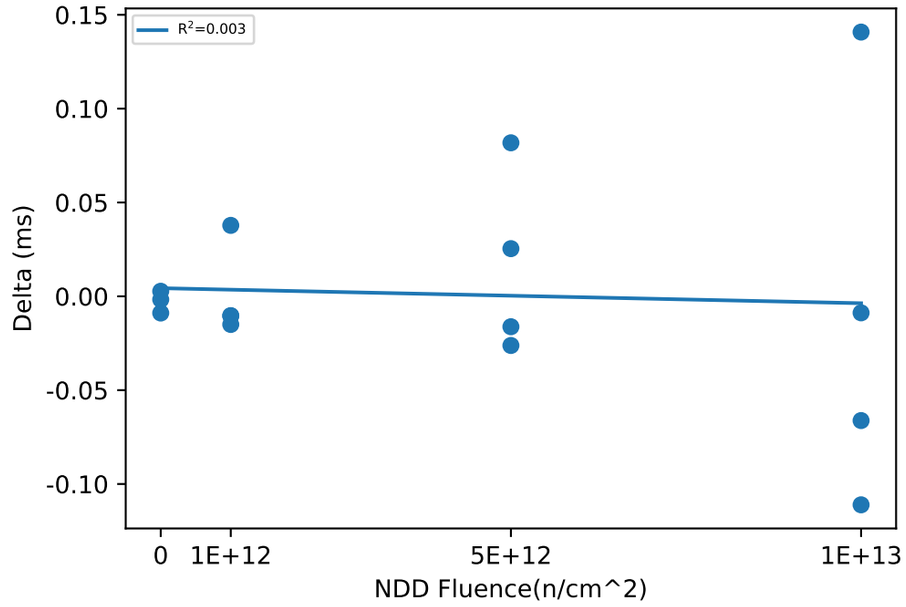
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.609	23.829	24.264	0.37667	23.645	23.829	24.154	0.28197	-0.1102	6.6667e-05	0.0743	0.097385
1e+12	23.492	23.819	24.252	0.33756	23.616	23.845	24.31	0.32427	-0.0863	0.026325	0.138	0.095159
5e+12	23.661	23.86	24.236	0.25848	23.645	23.824	24.301	0.31899	-0.173	-0.0367	0.0647	0.11007
1e+13	23.176	23.849	24.177	0.45543	23.11	23.811	24.23	0.48529	-0.1192	-0.0382	0.053	0.072798

Device Test: 5.55; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

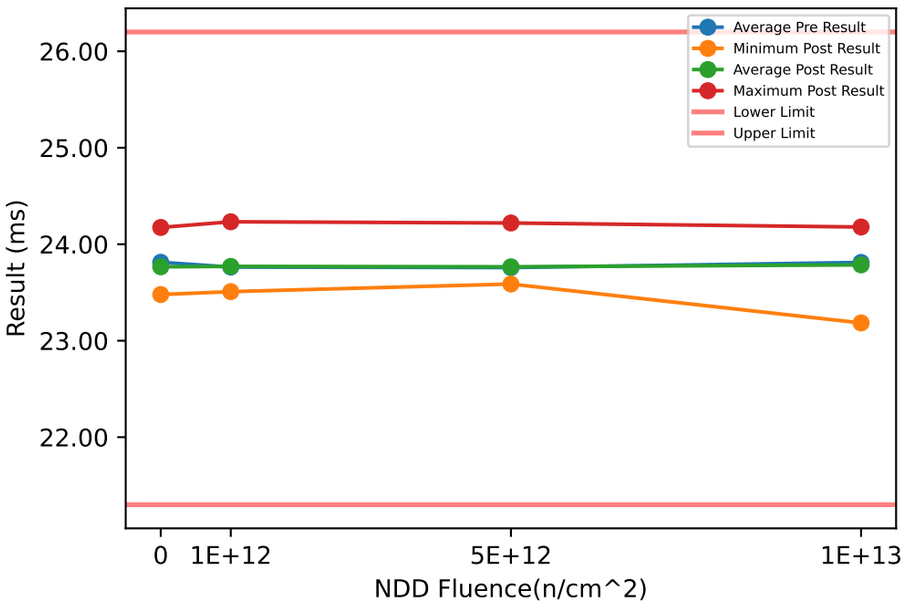
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.596	23.586	-0.0103
304	1e+12	NDD Unbiased	24.249	24.234	-0.015
305	1e+12	NDD Unbiased	23.784	23.773	-0.0104
306	1e+12	NDD Unbiased	23.487	23.525	0.0378
307	5e+12	NDD Unbiased	23.701	23.675	-0.0262
308	5e+12	NDD Unbiased	23.514	23.596	0.0818
309	5e+12	NDD Unbiased	23.561	23.587	0.0254
310	5e+12	NDD Unbiased	24.223	24.207	-0.0162
311	1e+13	NDD Unbiased	24.187	24.178	-0.0088
312	1e+13	NDD Unbiased	23.991	23.88	-0.1111
313	1e+13	NDD Unbiased	23.941	23.875	-0.0662
314	1e+13	NDD Unbiased	23.073	23.214	0.1408
315	0	Correlation	24.195	24.198	0.0027
316	0	Correlation	23.482	23.48	-0.0017
317	0	Correlation	23.639	23.63	-0.0089

Test Statistics (ms)

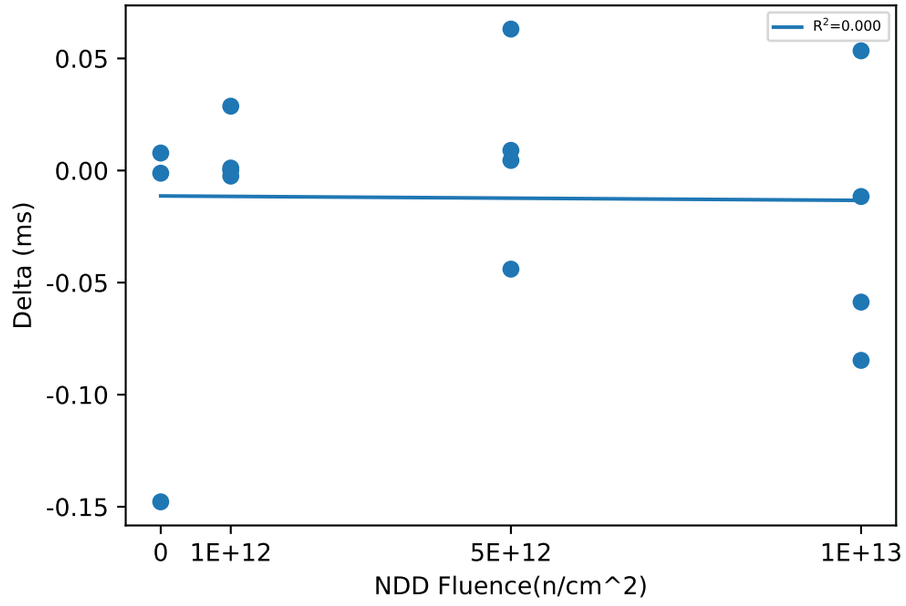
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.482	23.772	24.195	0.37479	23.48	23.769	24.198	0.37858	-0.0089	-0.0026333	0.0027	0.0058561
1e+12	23.487	23.779	24.249	0.3364	23.525	23.779	24.234	0.32086	-0.015	0.000525	0.0378	0.024947
5e+12	23.514	23.75	24.223	0.32513	23.587	23.766	24.207	0.29632	-0.0262	0.0162	0.0818	0.04911
1e+13	23.073	23.798	24.187	0.4947	23.214	23.787	24.178	0.40723	-0.1111	-0.011325	0.1408	0.10972

Device Test: 5.56; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

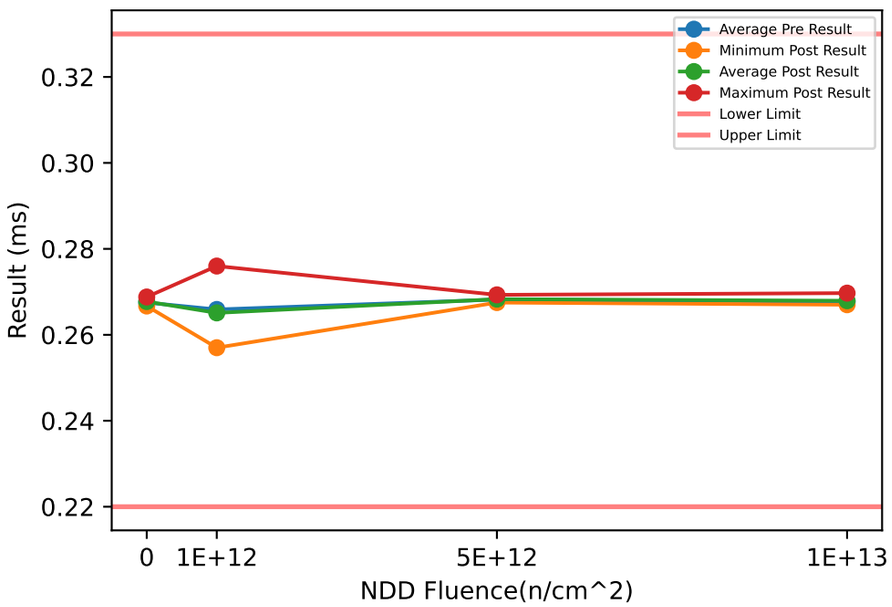
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.583	23.584	0.0011
304	1e+12	NDD Unbiased	24.235	24.233	-0.0025
305	1e+12	NDD Unbiased	23.755	23.755	0.0001
306	1e+12	NDD Unbiased	23.48	23.509	0.0287
307	5e+12	NDD Unbiased	23.703	23.659	-0.044
308	5e+12	NDD Unbiased	23.535	23.598	0.0631
309	5e+12	NDD Unbiased	23.578	23.587	0.009
310	5e+12	NDD Unbiased	24.216	24.22	0.0045
311	1e+13	NDD Unbiased	24.19	24.178	-0.0116
312	1e+13	NDD Unbiased	23.987	23.902	-0.0847
313	1e+13	NDD Unbiased	23.937	23.879	-0.0587
314	1e+13	NDD Unbiased	23.131	23.184	0.0534
315	0	Correlation	24.166	24.174	0.0078
316	0	Correlation	23.626	23.479	-0.1478
317	0	Correlation	23.646	23.645	-0.0012

Test Statistics (ms)

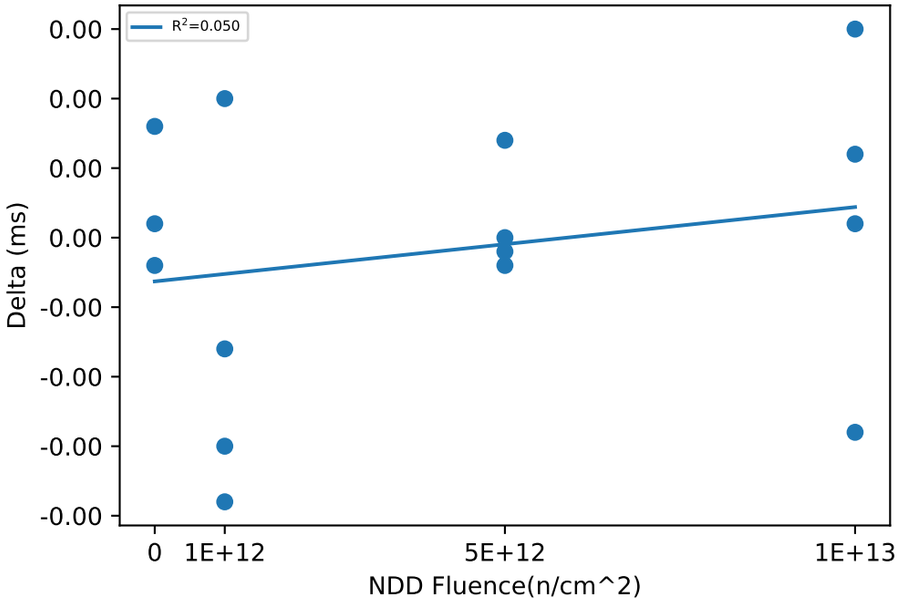
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.626	23.813	24.166	0.30596	23.479	23.766	24.174	0.36301	-0.1478	-0.047067	0.0078	0.087354
1e+12	23.48	23.763	24.235	0.33445	23.509	23.77	24.233	0.32516	-0.0025	0.00685	0.0287	0.014645
5e+12	23.535	23.758	24.216	0.31323	23.587	23.766	24.22	0.30425	-0.044	0.00815	0.0631	0.043792
1e+13	23.131	23.811	24.19	0.46665	23.184	23.786	24.178	0.42359	-0.0847	-0.0254	0.0534	0.060622

Device Test: 5.57; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

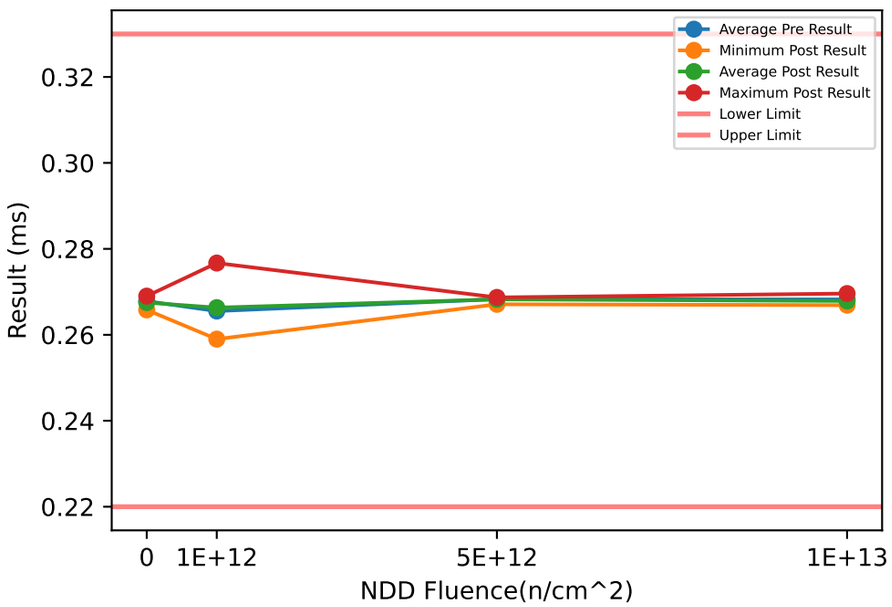
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2669	0.2661	-0.0008
304	1e+12	NDD Unbiased	0.2628	0.2613	-0.0015
305	1e+12	NDD Unbiased	0.275	0.276	0.001
306	1e+12	NDD Unbiased	0.2589	0.257	-0.0019
307	5e+12	NDD Unbiased	0.2675	0.2675	0
308	5e+12	NDD Unbiased	0.2694	0.2693	-0.0001
309	5e+12	NDD Unbiased	0.2678	0.2685	0.0007
310	5e+12	NDD Unbiased	0.2681	0.2679	-0.0002
311	1e+13	NDD Unbiased	0.2669	0.267	0.0001
312	1e+13	NDD Unbiased	0.2686	0.2672	-0.0014
313	1e+13	NDD Unbiased	0.2691	0.2697	0.0006
314	1e+13	NDD Unbiased	0.2663	0.2678	0.0015
315	0	Correlation	0.2687	0.2688	0.0001
316	0	Correlation	0.2679	0.2677	-0.0002
317	0	Correlation	0.2659	0.2667	0.0008

Test Statistics (ms)

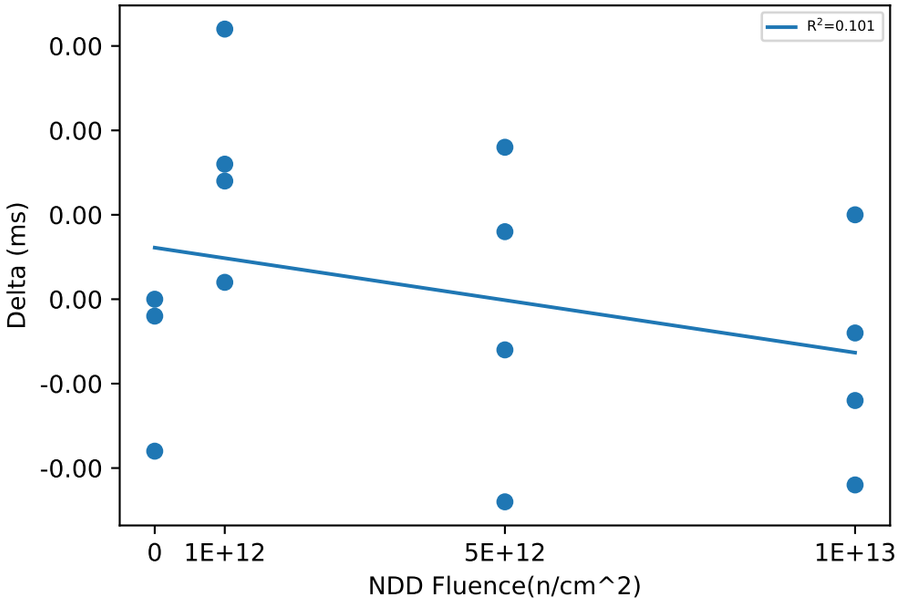
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2659	0.2675	0.2687	0.0014422	0.2667	0.26773	0.2688	0.0010504	-0.0002	0.00023333	0.0008	0.00051316
1e+12	0.2589	0.2659	0.275	0.0068901	0.257	0.2651	0.276	0.0081621	-0.0019	-0.0008	0.001	0.0012832
5e+12	0.2675	0.2682	0.2694	0.00083666	0.2675	0.2683	0.2693	0.00078316	-0.0002	0.0001	0.0007	0.00040825
1e+13	0.2663	0.26772	0.2691	0.0013376	0.267	0.26792	0.2697	0.0012312	-0.0014	0.0002	0.0015	0.0012138

Device Test: 5.58; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



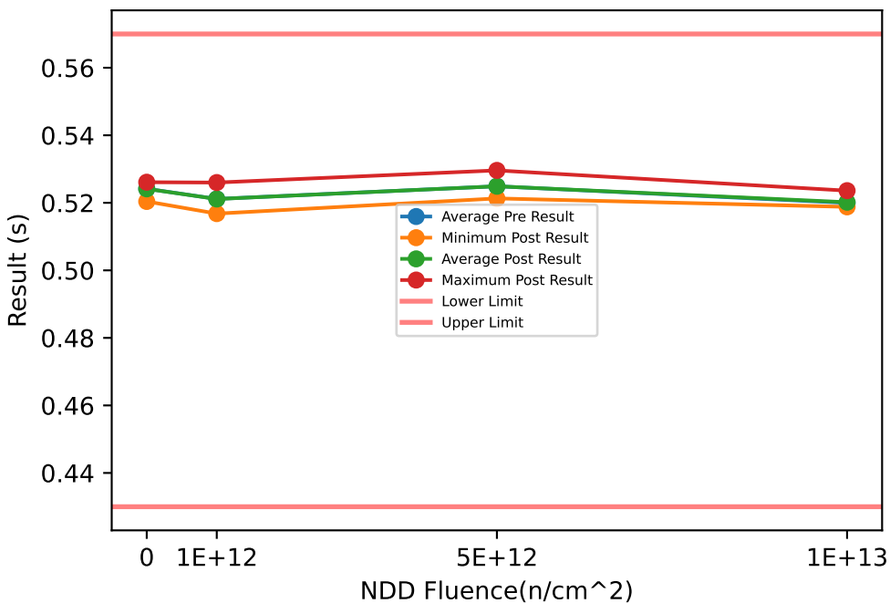
Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

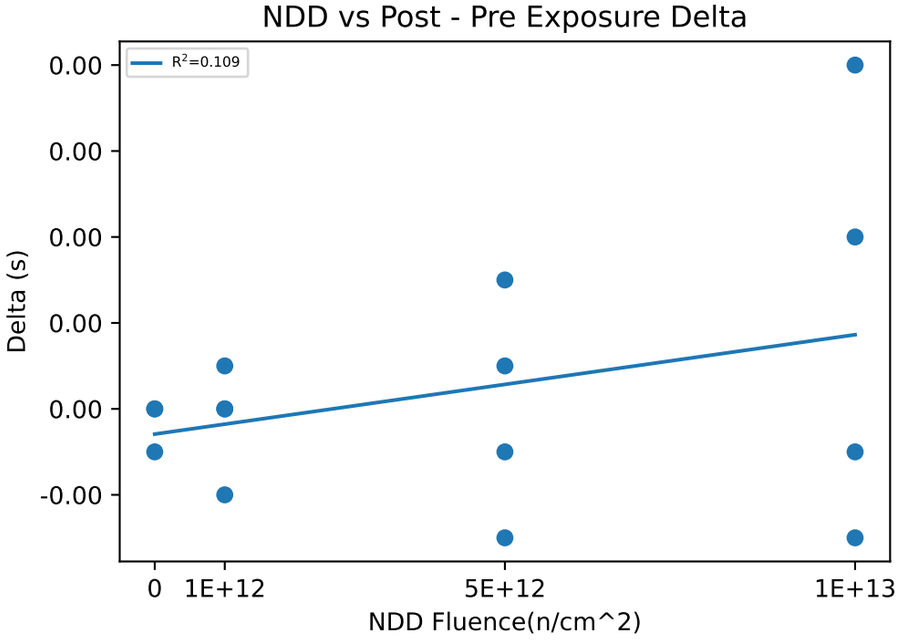
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2668	0.2675	0.0007
304	1e+12	NDD Unbiased	0.262	0.2621	0.0001
305	1e+12	NDD Unbiased	0.2751	0.2767	0.0016
306	1e+12	NDD Unbiased	0.2582	0.259	0.0008
307	5e+12	NDD Unbiased	0.2683	0.2671	-0.0012
308	5e+12	NDD Unbiased	0.269	0.2687	-0.0003
309	5e+12	NDD Unbiased	0.2678	0.2687	0.0009
310	5e+12	NDD Unbiased	0.2681	0.2685	0.0004
311	1e+13	NDD Unbiased	0.2673	0.2671	-0.0002
312	1e+13	NDD Unbiased	0.2675	0.2669	-0.0006
313	1e+13	NDD Unbiased	0.2707	0.2696	-0.0011
314	1e+13	NDD Unbiased	0.2674	0.2679	0.0005
315	0	Correlation	0.2686	0.2677	-0.0009
316	0	Correlation	0.2691	0.269	-0.0001
317	0	Correlation	0.2658	0.2658	0

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2658	0.26783	0.2691	0.0017786	0.2658	0.2675	0.269	0.0016093	-0.0009	-0.00033333	0	0.00049329
1e+12	0.2582	0.26553	0.2751	0.007289	0.259	0.26633	0.2767	0.0077573	0.0001	0.0008	0.0016	0.00061644
5e+12	0.2678	0.2683	0.269	0.0005099	0.2671	0.26825	0.2687	0.00077244	-0.0012	-5e-05	0.0009	0.00091104
1e+13	0.2673	0.26822	0.2707	0.001652	0.2669	0.26788	0.2696	0.0012285	-0.0011	-0.00035	0.0005	0.00067577

Device Test: 5.59; WD_TMR_10KOHM





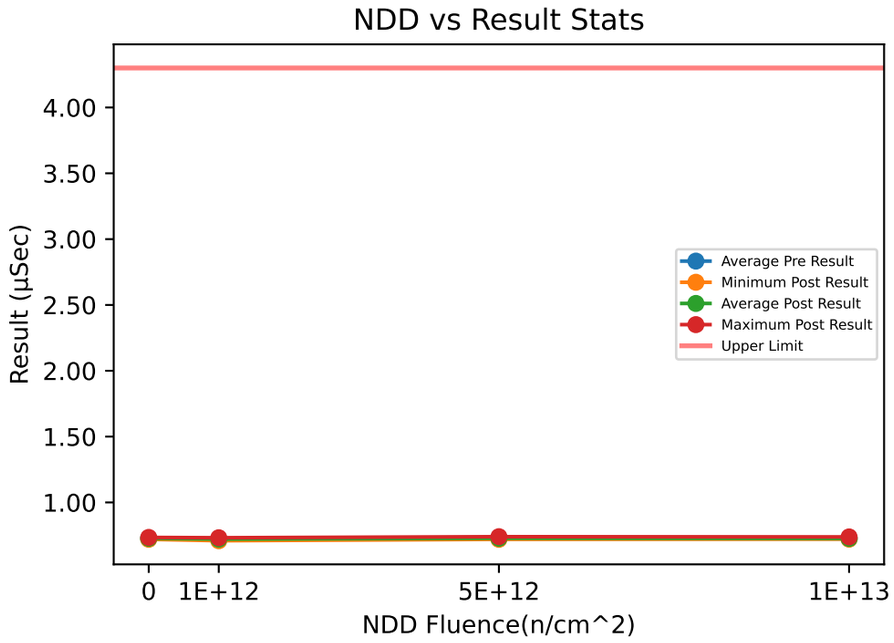
Test Results (Lower Limit = 0.43, Upper Limit = 0.57 (s))

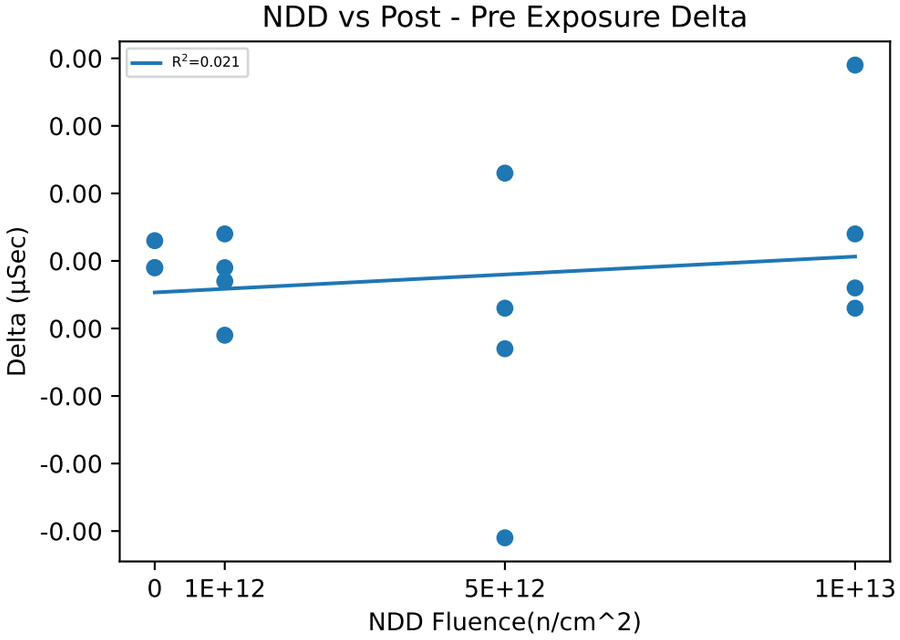
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.517	0.5168	-0.0002
304	1e+12	NDD Unbiased	0.5235	0.5235	0
305	1e+12	NDD Unbiased	0.5259	0.526	0.0001
306	1e+12	NDD Unbiased	0.5182	0.5182	0
307	5e+12	NDD Unbiased	0.5299	0.5296	-0.0003
308	5e+12	NDD Unbiased	0.5214	0.5213	-0.0001
309	5e+12	NDD Unbiased	0.522	0.5223	0.0003
310	5e+12	NDD Unbiased	0.5263	0.5264	0.0001
311	1e+13	NDD Unbiased	0.5191	0.519	-0.0001
312	1e+13	NDD Unbiased	0.518	0.5188	0.0008
313	1e+13	NDD Unbiased	0.5196	0.5193	-0.0003
314	1e+13	NDD Unbiased	0.5232	0.5236	0.0004
315	0	Correlation	0.5205	0.5204	-0.0001
316	0	Correlation	0.5261	0.5261	0
317	0	Correlation	0.5259	0.5259	0

Test Statistics (s)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5205	0.52417	0.5261	0.003177	0.5204	0.52413	0.5261	0.0032347	-0.0001	-3.3333e-05	0	5.7735e-05
1e+12	0.517	0.52115	0.5259	0.004243	0.5168	0.52113	0.526	0.0043462	-0.0002	-2.5e-05	0.0001	0.00012583
5e+12	0.5214	0.5249	0.5299	0.0039841	0.5213	0.5249	0.5296	0.0038323	-0.0003	-2.7756e-17	0.0003	0.0002582
1e+13	0.518	0.51997	0.5232	0.0022515	0.5188	0.52018	0.5236	0.0022926	-0.0003	0.0002	0.0008	0.00049666

Device Test: 5.6; PROPD_RESET





Test Results (Upper Limit = 4.3 (µSec))

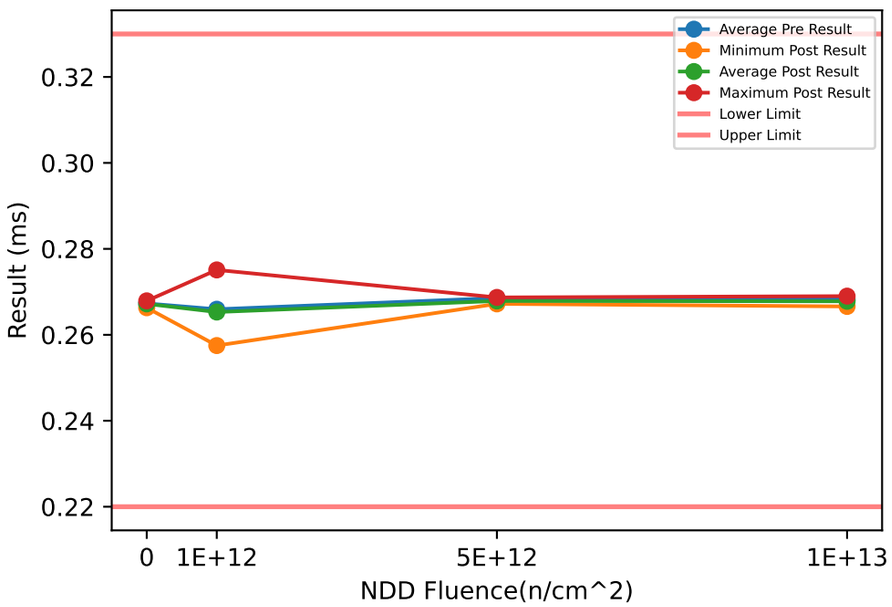
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7304	0.7318	0.0014
304	1e+12	NDD Unbiased	0.724	0.7249	0.0009
305	1e+12	NDD Unbiased	0.7204	0.7203	-0.0001
306	1e+12	NDD Unbiased	0.7085	0.7092	0.0007
307	5e+12	NDD Unbiased	0.7245	0.7248	0.0003
308	5e+12	NDD Unbiased	0.7401	0.7398	-0.0003
309	5e+12	NDD Unbiased	0.7251	0.7274	0.0023
310	5e+12	NDD Unbiased	0.7229	0.7198	-0.0031
311	1e+13	NDD Unbiased	0.7236	0.725	0.0014
312	1e+13	NDD Unbiased	0.7181	0.722	0.0039
313	1e+13	NDD Unbiased	0.7205	0.7211	0.0006
314	1e+13	NDD Unbiased	0.7378	0.7381	0.0003
315	0	Correlation	0.7192	0.7201	0.0009
316	0	Correlation	0.7329	0.7342	0.0013
317	0	Correlation	0.7276	0.7285	0.0009

Test Statistics (µSec)

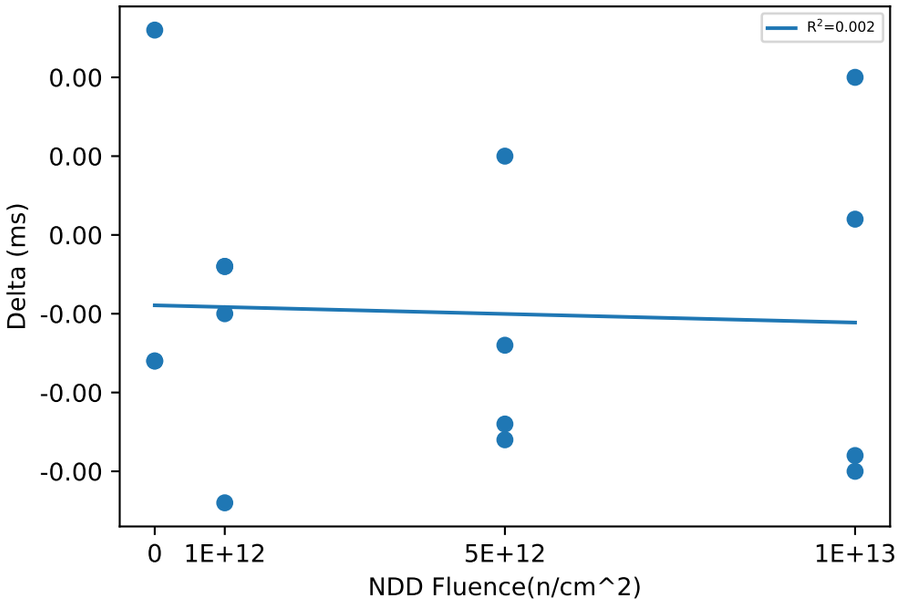
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7192	0.72657	0.7329	0.0069082	0.7201	0.7276	0.7342	0.007093	0.0009	0.0010333	0.0013	0.00023094
1e+12	0.7085	0.72083	0.7304	0.0091987	0.7092	0.72155	0.7318	0.0094933	-0.0001	0.000725	0.0014	0.00062383
5e+12	0.7229	0.72815	0.7401	0.0080206	0.7198	0.72795	0.7398	0.0085063	-0.0031	-0.0002	0.0023	0.0022301
1e+13	0.7181	0.725	0.7378	0.0088253	0.7211	0.72655	0.7381	0.0078785	0.0003	0.00155	0.0039	0.001634

Device Test: 5.60; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



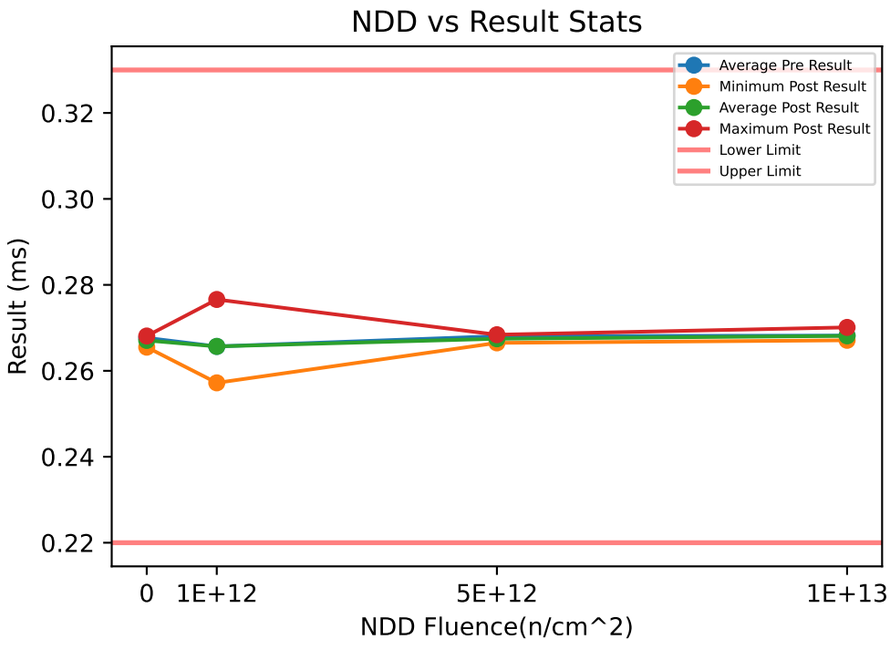
Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

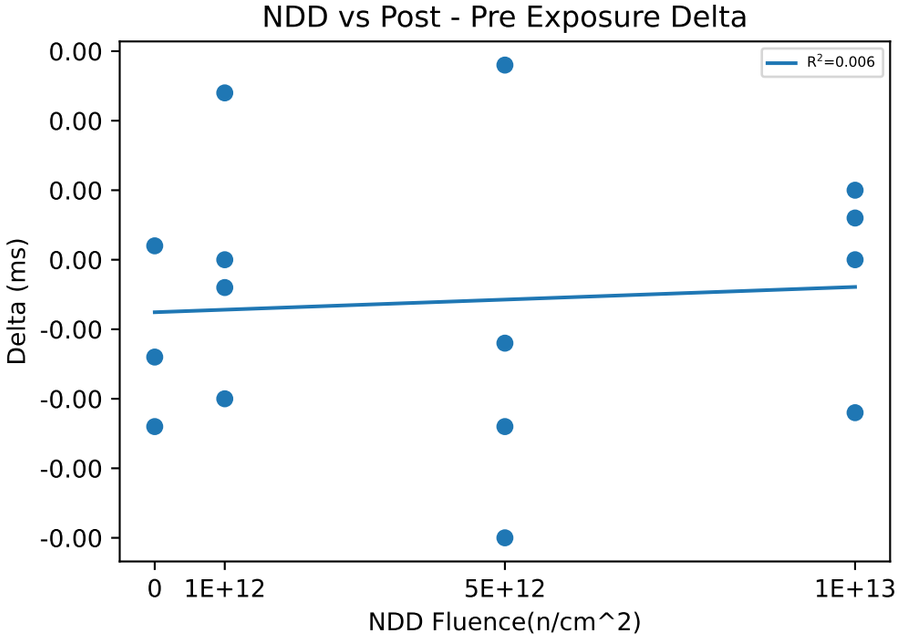
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2669	0.2667	-0.0002
304	1e+12	NDD Unbiased	0.2621	0.2619	-0.0002
305	1e+12	NDD Unbiased	0.2768	0.2751	-0.0017
306	1e+12	NDD Unbiased	0.258	0.2575	-0.0005
307	5e+12	NDD Unbiased	0.2684	0.2672	-0.0012
308	5e+12	NDD Unbiased	0.2694	0.2687	-0.0007
309	5e+12	NDD Unbiased	0.2688	0.2675	-0.0013
310	5e+12	NDD Unbiased	0.2676	0.2681	0.0005
311	1e+13	NDD Unbiased	0.268	0.2666	-0.0014
312	1e+13	NDD Unbiased	0.2678	0.2679	0.0001
313	1e+13	NDD Unbiased	0.2705	0.269	-0.0015
314	1e+13	NDD Unbiased	0.2667	0.2677	0.001
315	0	Correlation	0.2682	0.2674	-0.0008
316	0	Correlation	0.2687	0.2679	-0.0008
317	0	Correlation	0.265	0.2663	0.0013

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.265	0.2673	0.2687	0.0020075	0.2663	0.2672	0.2679	0.00081854	-0.0008	-0.0001	0.0013	0.0012124
1e+12	0.258	0.26595	0.2768	0.0080963	0.2575	0.2653	0.2751	0.0075366	-0.0017	-0.00065	-0.0002	0.00071414
5e+12	0.2676	0.26855	0.2694	0.00075498	0.2672	0.26787	0.2687	0.00066521	-0.0013	-0.000675	0.0005	0.00082614
1e+13	0.2667	0.26825	0.2705	0.0016052	0.2666	0.2678	0.269	0.00098319	-0.0015	-0.00045	0.001	0.0012124

Device Test: 5.61; DLY_TMR_10KOHM





Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

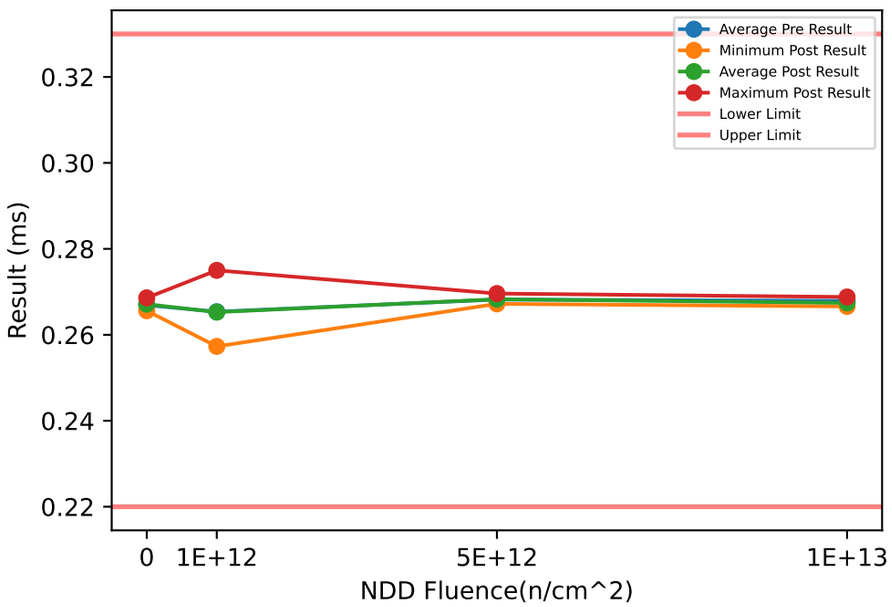
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2679	0.2679	0
304	1e+12	NDD Unbiased	0.262	0.261	-0.001
305	1e+12	NDD Unbiased	0.2754	0.2766	0.0012
306	1e+12	NDD Unbiased	0.2574	0.2572	-0.0002
307	5e+12	NDD Unbiased	0.2685	0.2665	-0.002
308	5e+12	NDD Unbiased	0.2683	0.2677	-0.0006
309	5e+12	NDD Unbiased	0.267	0.2684	0.0014
310	5e+12	NDD Unbiased	0.2684	0.2672	-0.0012
311	1e+13	NDD Unbiased	0.2675	0.268	0.0005
312	1e+13	NDD Unbiased	0.267	0.2673	0.0003
313	1e+13	NDD Unbiased	0.2701	0.2701	0
314	1e+13	NDD Unbiased	0.2682	0.2671	-0.0011
315	0	Correlation	0.2683	0.2676	-0.0007
316	0	Correlation	0.268	0.2681	0.0001
317	0	Correlation	0.2667	0.2655	-0.0012

Test Statistics (ms)

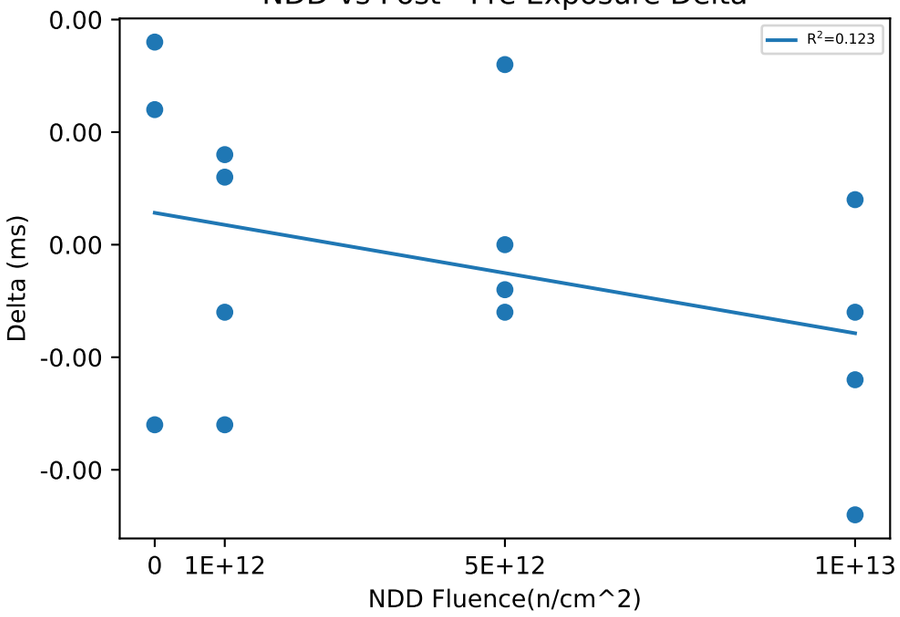
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2667	0.26767	0.2683	0.00085049	0.2655	0.26707	0.2681	0.0013796	-0.0012	-0.0006	0.0001	0.00065574
1e+12	0.2574	0.26567	0.2754	0.0077783	0.2572	0.26567	0.2766	0.0085242	-0.001	0	0.0012	0.00090921
5e+12	0.267	0.26805	0.2685	0.00070475	0.2665	0.26745	0.2684	0.00080208	-0.002	-0.0006	0.0014	0.0014514
1e+13	0.267	0.2682	0.2701	0.0013589	0.2671	0.26813	0.2701	0.001372	-0.0011	-7.5e-05	0.0005	0.00071356

Device Test: 5.62; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

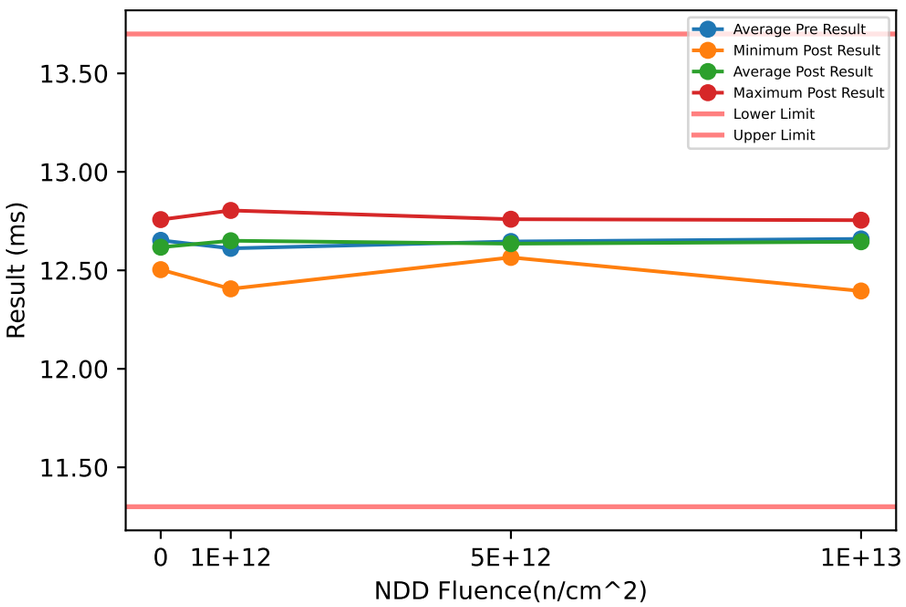
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2667	0.2671	0.0004
304	1e+12	NDD Unbiased	0.2614	0.2617	0.0003
305	1e+12	NDD Unbiased	0.2758	0.275	-0.0008
306	1e+12	NDD Unbiased	0.2576	0.2573	-0.0003
307	5e+12	NDD Unbiased	0.2674	0.2682	0.0008
308	5e+12	NDD Unbiased	0.2696	0.2696	0
309	5e+12	NDD Unbiased	0.2683	0.2681	-0.0002
310	5e+12	NDD Unbiased	0.2675	0.2672	-0.0003
311	1e+13	NDD Unbiased	0.2668	0.267	0.0002
312	1e+13	NDD Unbiased	0.2685	0.2673	-0.0012
313	1e+13	NDD Unbiased	0.2691	0.2688	-0.0003
314	1e+13	NDD Unbiased	0.2672	0.2666	-0.0006
315	0	Correlation	0.268	0.2672	-0.0008
316	0	Correlation	0.2677	0.2686	0.0009
317	0	Correlation	0.265	0.2656	0.0006

Test Statistics (ms)

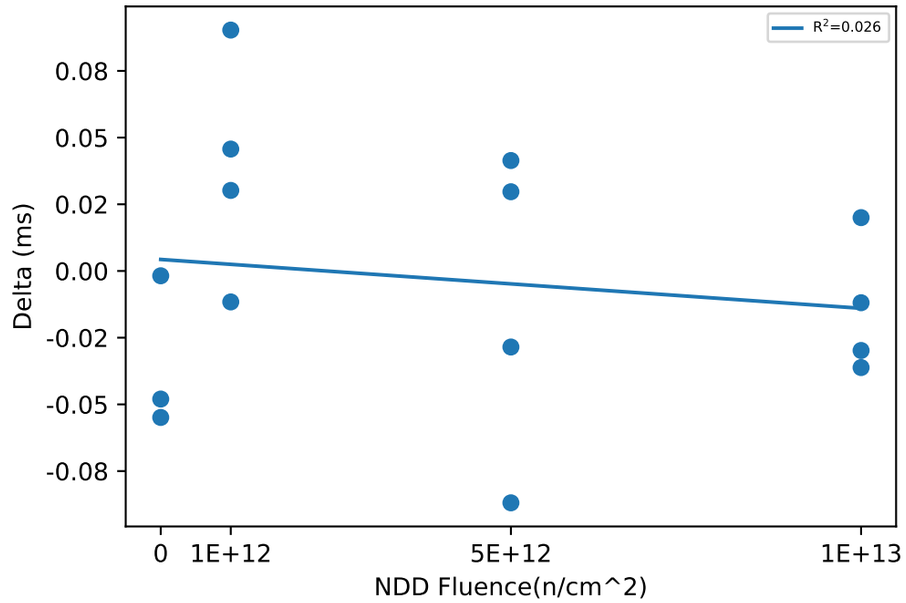
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.265	0.2669	0.268	0.0016523	0.2656	0.26713	0.2686	0.0015011	-0.0008	0.00023333	0.0009	0.00090738
1e+12	0.2576	0.26538	0.2758	0.0078885	0.2573	0.26527	0.275	0.0076221	-0.0008	-0.0001	0.0004	0.00055976
5e+12	0.2674	0.2682	0.2696	0.0010165	0.2672	0.26827	0.2696	0.00099121	-0.0003	7.5e-05	0.0008	0.00049917
1e+13	0.2668	0.2679	0.2691	0.0010801	0.2666	0.26743	0.2688	0.00096047	-0.0012	-0.000475	0.0002	0.00058523

Device Test: 5.63; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

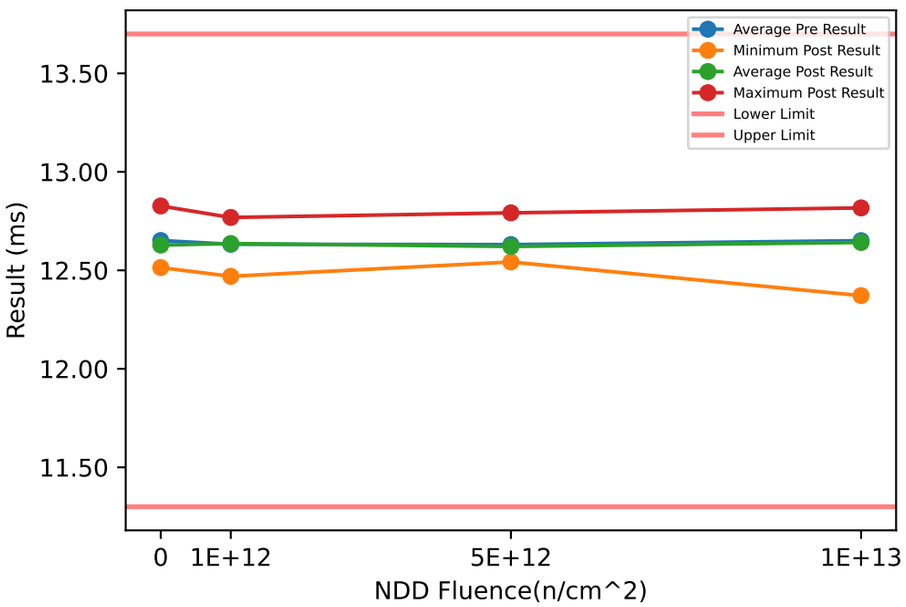
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.612	12.6	-0.0116
304	1e+12	NDD Unbiased	12.714	12.804	0.0903
305	1e+12	NDD Unbiased	12.745	12.791	0.0457
306	1e+12	NDD Unbiased	12.376	12.406	0.0302
307	5e+12	NDD Unbiased	12.647	12.618	-0.0285
308	5e+12	NDD Unbiased	12.568	12.598	0.0297
309	5e+12	NDD Unbiased	12.524	12.566	0.0414
310	5e+12	NDD Unbiased	12.846	12.759	-0.0869
311	1e+13	NDD Unbiased	12.767	12.755	-0.0119
312	1e+13	NDD Unbiased	12.727	12.691	-0.0362
313	1e+13	NDD Unbiased	12.769	12.739	-0.0298
314	1e+13	NDD Unbiased	12.375	12.395	0.02
315	0	Correlation	12.812	12.758	-0.0549
316	0	Correlation	12.552	12.504	-0.048
317	0	Correlation	12.593	12.591	-0.0018

Test Statistics (ms)

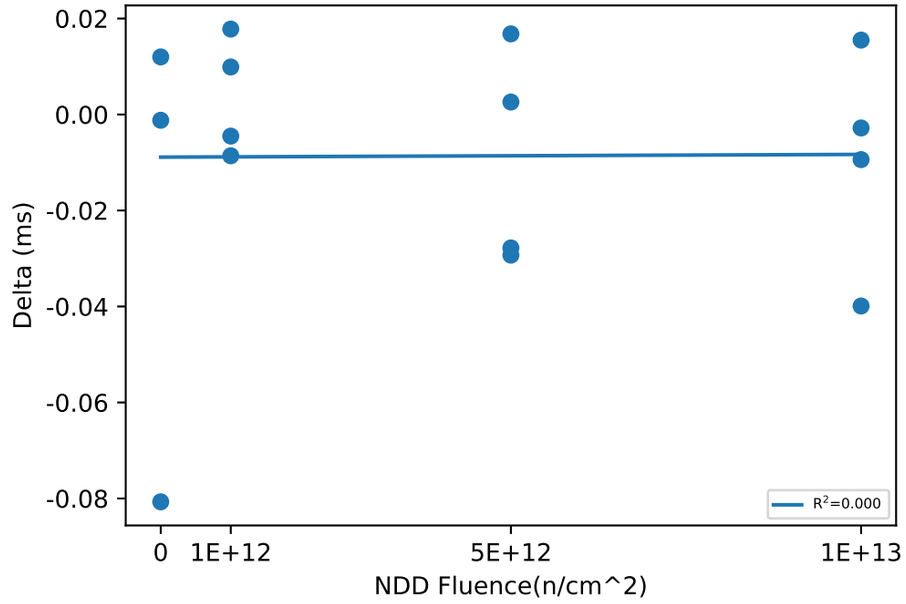
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.552	12.652	12.812	0.14023	12.504	12.617	12.758	0.12906	-0.0549	-0.0349	-0.0018	0.028872
1e+12	12.376	12.612	12.745	0.16718	12.406	12.65	12.804	0.1876	-0.0116	0.03865	0.0903	0.042087
5e+12	12.524	12.646	12.846	0.14263	12.566	12.635	12.759	0.085552	-0.0869	-0.011075	0.0414	0.059074
1e+13	12.375	12.66	12.769	0.19055	12.395	12.645	12.755	0.16879	-0.0362	-0.014475	0.02	0.025179

Device Test: 5.64; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

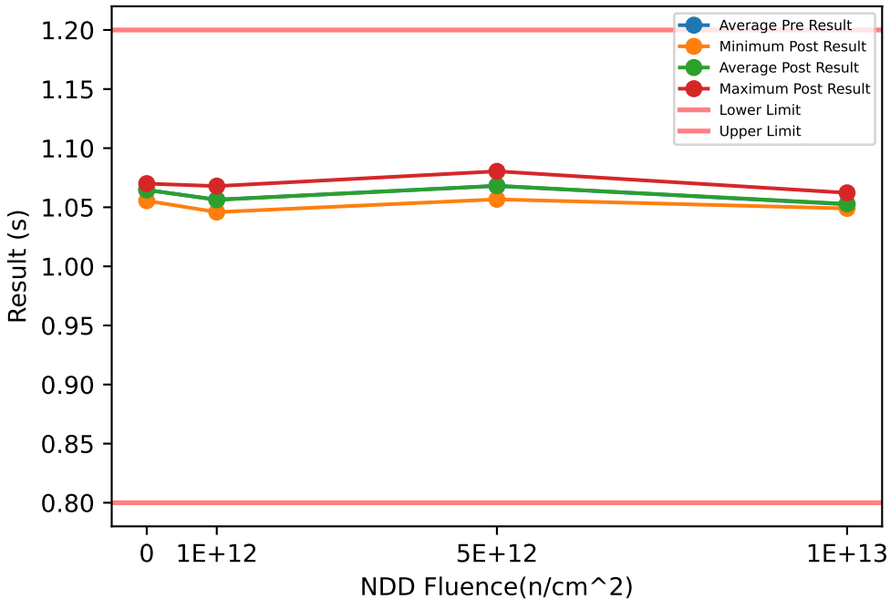
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.576	12.568	-0.0086
304	1e+12	NDD Unbiased	12.759	12.768	0.0099
305	1e+12	NDD Unbiased	12.743	12.738	-0.0045
306	1e+12	NDD Unbiased	12.452	12.47	0.0178
307	5e+12	NDD Unbiased	12.613	12.584	-0.0293
308	5e+12	NDD Unbiased	12.55	12.567	0.0168
309	5e+12	NDD Unbiased	12.54	12.543	0.0026
310	5e+12	NDD Unbiased	12.82	12.792	-0.0278
311	1e+13	NDD Unbiased	12.82	12.817	-0.0028
312	1e+13	NDD Unbiased	12.717	12.677	-0.0399
313	1e+13	NDD Unbiased	12.71	12.7	-0.0094
314	1e+13	NDD Unbiased	12.356	12.372	0.0155
315	0	Correlation	12.815	12.827	0.012
316	0	Correlation	12.515	12.514	-0.0012
317	0	Correlation	12.625	12.544	-0.0807

Test Statistics (ms)

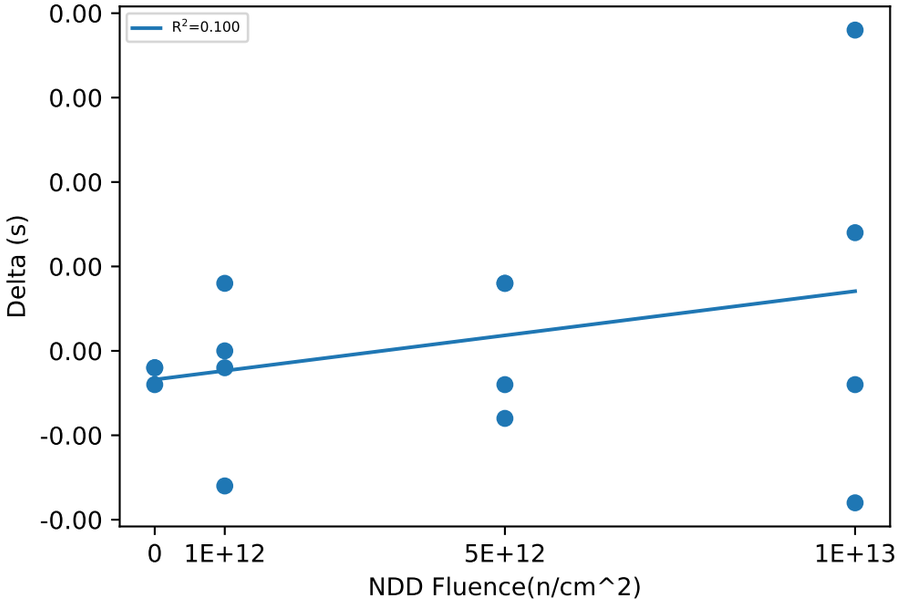
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.515	12.652	12.815	0.15166	12.514	12.628	12.827	0.17267	-0.0807	-0.0233	0.012	0.050146
1e+12	12.452	12.632	12.759	0.1458	12.47	12.636	12.768	0.14175	-0.0086	0.00365	0.0178	0.012326
5e+12	12.54	12.631	12.82	0.13006	12.543	12.621	12.792	0.115	-0.0293	-0.009425	0.0168	0.02284
1e+13	12.356	12.651	12.82	0.20264	12.372	12.642	12.817	0.19	-0.0399	-0.00915	0.0155	0.023048

Device Test: 5.65; WD_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.8, Upper Limit = 1.2 (s))

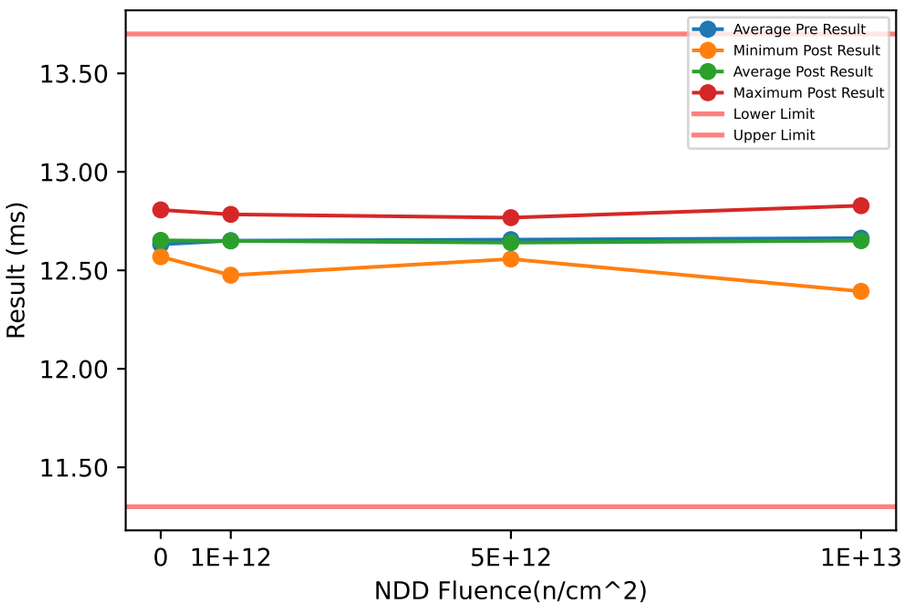
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.0467	1.0459	-0.0008
304	1e+12	NDD Unbiased	1.0621	1.0621	0
305	1e+12	NDD Unbiased	1.0675	1.0679	0.0004
306	1e+12	NDD Unbiased	1.0494	1.0493	-0.0001
307	5e+12	NDD Unbiased	1.0808	1.0804	-0.0004
308	5e+12	NDD Unbiased	1.0569	1.0567	-0.0002
309	5e+12	NDD Unbiased	1.0613	1.0617	0.0004
310	5e+12	NDD Unbiased	1.0734	1.0738	0.0004
311	1e+13	NDD Unbiased	1.0492	1.049	-0.0002
312	1e+13	NDD Unbiased	1.0479	1.0498	0.0019
313	1e+13	NDD Unbiased	1.0513	1.0504	-0.0009
314	1e+13	NDD Unbiased	1.0615	1.0622	0.0007
315	0	Correlation	1.0557	1.0555	-0.0002
316	0	Correlation	1.0683	1.0682	-0.0001
317	0	Correlation	1.0701	1.07	-0.0001

Test Statistics (s)

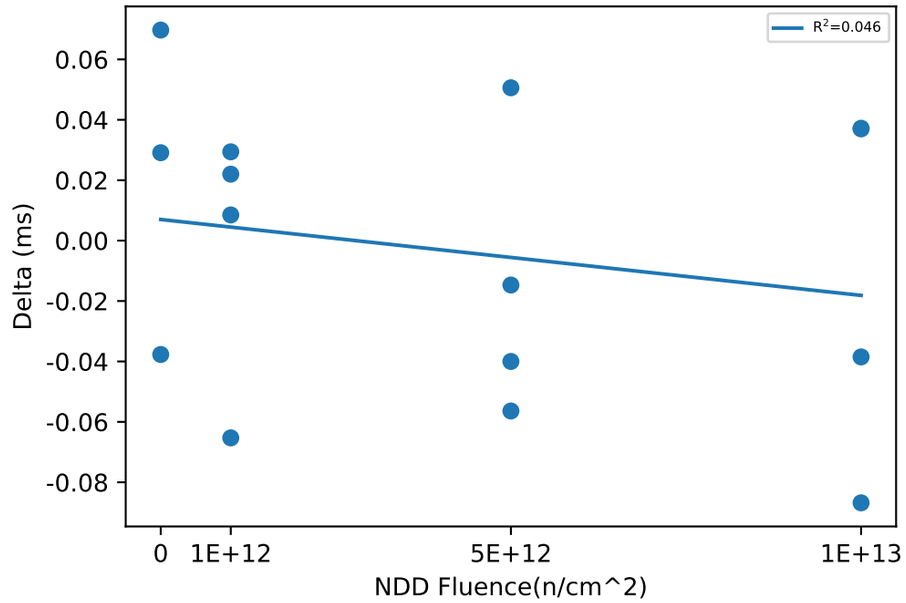
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0557	1.0647	1.0701	0.007846	1.0555	1.0646	1.07	0.0079034	-0.0002	-0.00013333	-0.0001	5.7735e-05
1e+12	1.0467	1.0564	1.0675	0.0099798	1.0459	1.0563	1.0679	0.010414	-0.0008	-0.000125	0.0004	0.00049917
5e+12	1.0569	1.0681	1.0808	0.010971	1.0567	1.0682	1.0804	0.010873	-0.0004	5e-05	0.0004	0.00041231
1e+13	1.0479	1.0525	1.0615	0.0061776	1.049	1.0529	1.0622	0.0062597	-0.0009	0.000375	0.0019	0.0012093

Device Test: 5.66; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

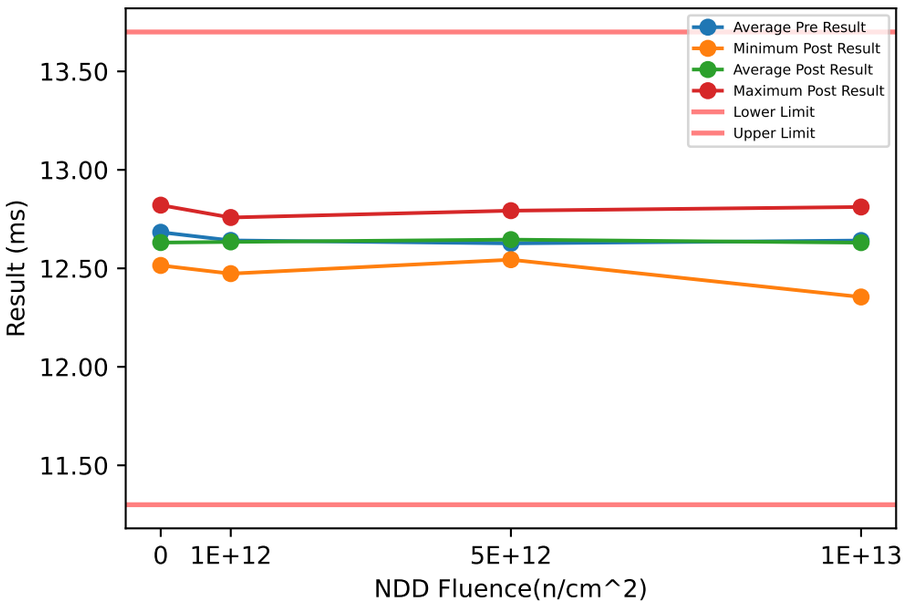
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.575	12.604	0.0294
304	1e+12	NDD Unbiased	12.762	12.784	0.022
305	1e+12	NDD Unbiased	12.799	12.734	-0.0653
306	1e+12	NDD Unbiased	12.467	12.475	0.0085
307	5e+12	NDD Unbiased	12.643	12.628	-0.0147
308	5e+12	NDD Unbiased	12.56	12.611	0.0506
309	5e+12	NDD Unbiased	12.597	12.557	-0.04
310	5e+12	NDD Unbiased	12.824	12.768	-0.0564
311	1e+13	NDD Unbiased	12.791	12.828	0.037
312	1e+13	NDD Unbiased	12.748	12.661	-0.0868
313	1e+13	NDD Unbiased	12.758	12.719	-0.0385
314	1e+13	NDD Unbiased	12.356	12.394	0.0372
315	0	Correlation	12.845	12.807	-0.0377
316	0	Correlation	12.511	12.581	0.0697
317	0	Correlation	12.54	12.569	0.0291

Test Statistics (ms)

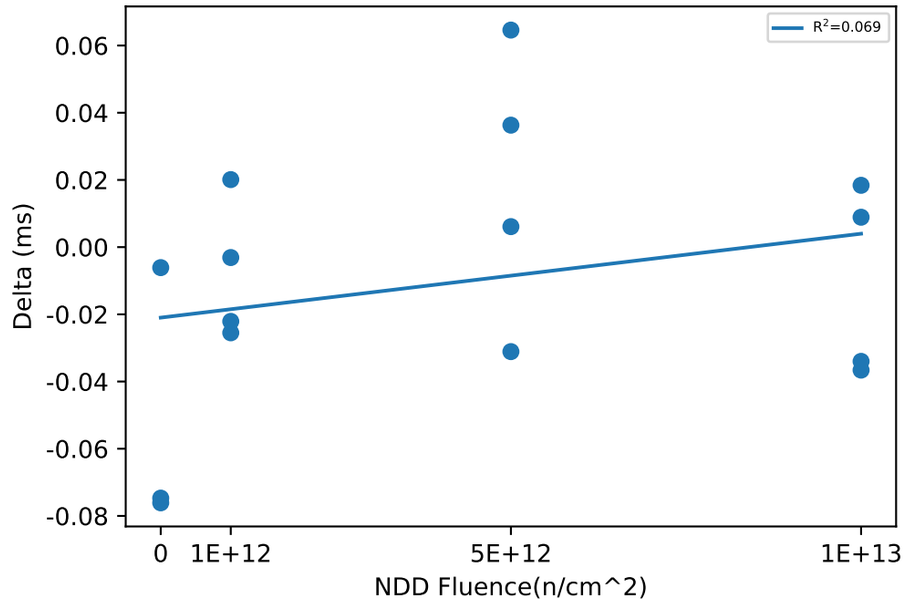
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.511	12.632	12.845	0.1847	12.569	12.652	12.807	0.134	-0.0377	0.020367	0.0697	0.05423
1e+12	12.467	12.651	12.799	0.15714	12.475	12.649	12.784	0.13862	-0.0653	-0.00135	0.0294	0.043503
5e+12	12.56	12.656	12.824	0.11696	12.557	12.641	12.768	0.089621	-0.0564	-0.015125	0.0506	0.047054
1e+13	12.356	12.663	12.791	0.20549	12.394	12.651	12.828	0.18478	-0.0868	-0.012775	0.0372	0.060873

Device Test: 5.67; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

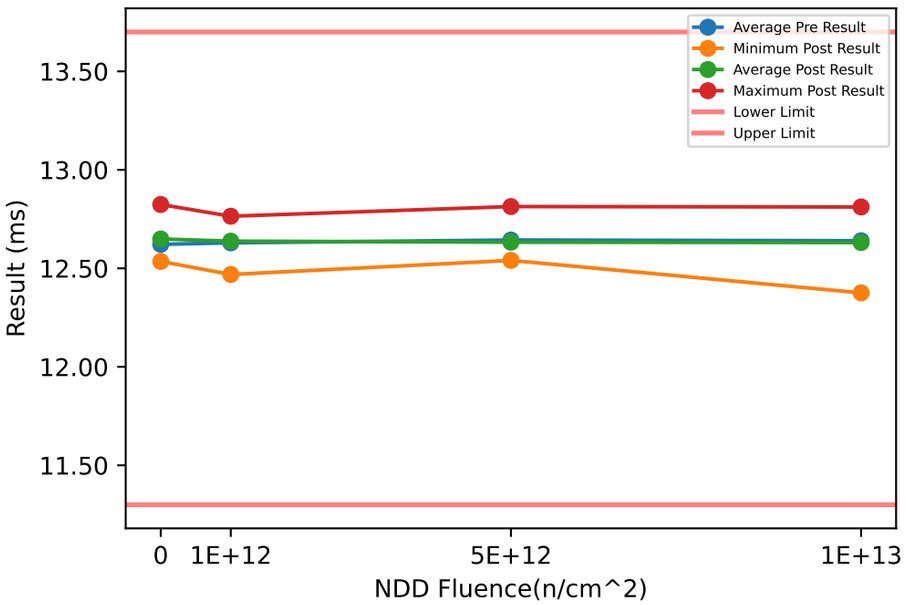
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.575	12.55	-0.0255
304	1e+12	NDD Unbiased	12.78	12.758	-0.0221
305	1e+12	NDD Unbiased	12.759	12.755	-0.0031
306	1e+12	NDD Unbiased	12.453	12.473	0.0201
307	5e+12	NDD Unbiased	12.598	12.662	0.0646
308	5e+12	NDD Unbiased	12.548	12.584	0.0363
309	5e+12	NDD Unbiased	12.538	12.544	0.0061
310	5e+12	NDD Unbiased	12.824	12.793	-0.0311
311	1e+13	NDD Unbiased	12.793	12.812	0.0184
312	1e+13	NDD Unbiased	12.694	12.657	-0.0366
313	1e+13	NDD Unbiased	12.733	12.699	-0.034
314	1e+13	NDD Unbiased	12.346	12.355	0.0089
315	0	Correlation	12.827	12.821	-0.0061
316	0	Correlation	12.591	12.515	-0.0761
317	0	Correlation	12.632	12.557	-0.0747

Test Statistics (ms)

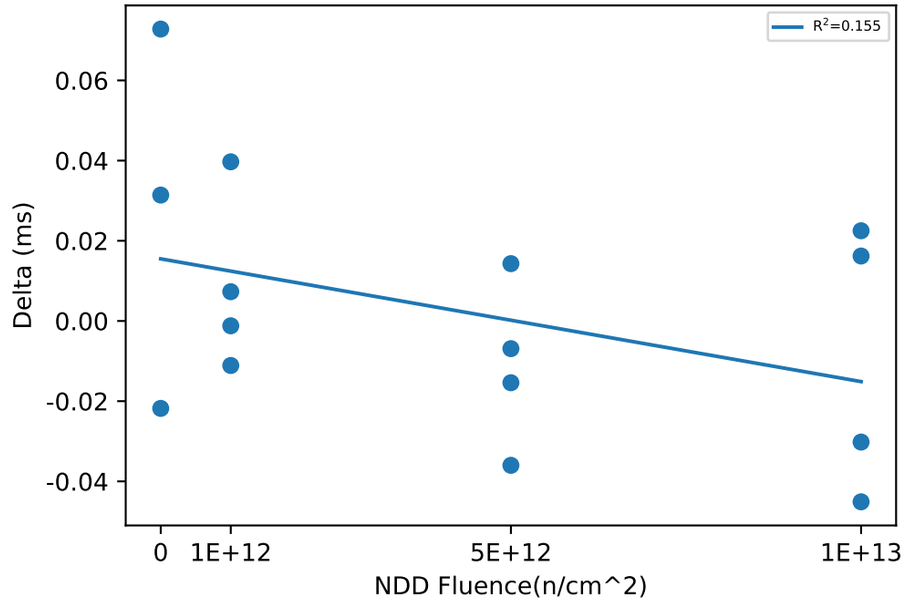
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.591	12.683	12.827	0.12615	12.515	12.631	12.821	0.16585	-0.0761	-0.0523	-0.0061	0.040016
1e+12	12.453	12.642	12.78	0.15579	12.473	12.634	12.758	0.14502	-0.0255	-0.00765	0.0201	0.020962
5e+12	12.538	12.627	12.824	0.134	12.544	12.646	12.793	0.10968	-0.0311	0.018975	0.0646	0.041049
1e+13	12.346	12.641	12.793	0.20125	12.355	12.63	12.812	0.19513	-0.0366	-0.010825	0.0184	0.028546

Device Test: 5.68; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

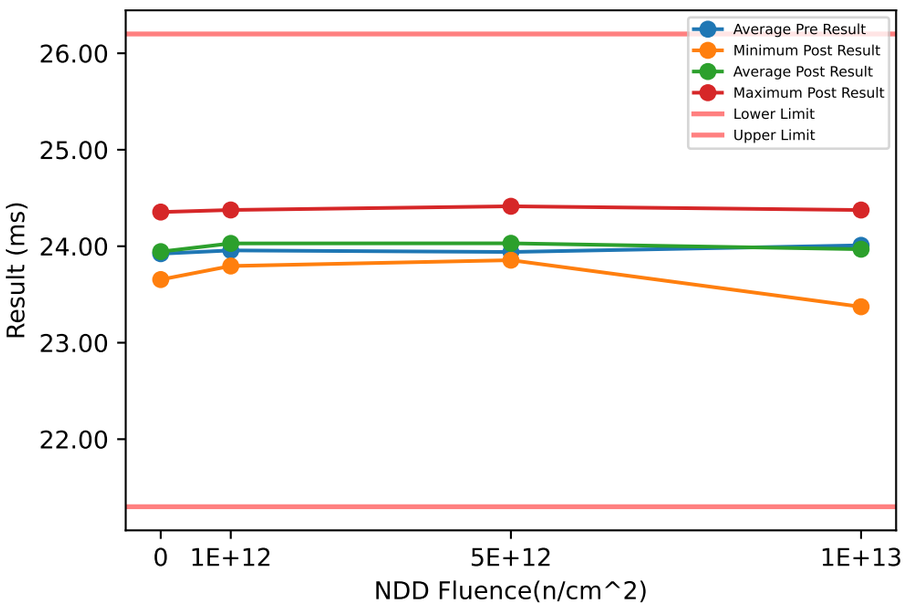
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.558	12.565	0.0073
304	1e+12	NDD Unbiased	12.776	12.764	-0.0111
305	1e+12	NDD Unbiased	12.755	12.754	-0.0012
306	1e+12	NDD Unbiased	12.429	12.469	0.0397
307	5e+12	NDD Unbiased	12.61	12.595	-0.0154
308	5e+12	NDD Unbiased	12.618	12.582	-0.036
309	5e+12	NDD Unbiased	12.526	12.54	0.0143
310	5e+12	NDD Unbiased	12.821	12.814	-0.0069
311	1e+13	NDD Unbiased	12.789	12.812	0.0225
312	1e+13	NDD Unbiased	12.699	12.669	-0.0302
313	1e+13	NDD Unbiased	12.713	12.668	-0.0451
314	1e+13	NDD Unbiased	12.359	12.376	0.0162
315	0	Correlation	12.793	12.824	0.0314
316	0	Correlation	12.515	12.588	0.0728
317	0	Correlation	12.557	12.535	-0.0218

Test Statistics (ms)

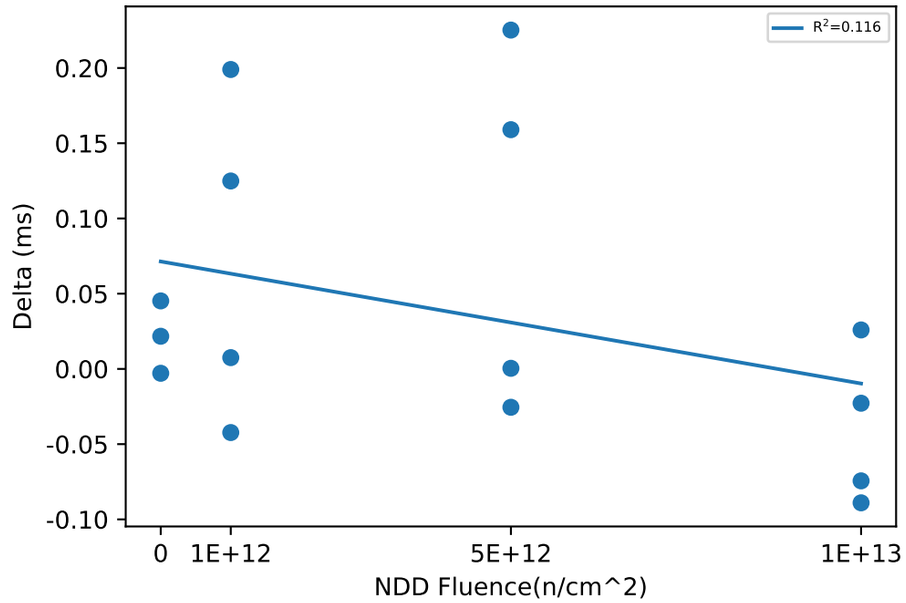
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.515	12.622	12.793	0.14969	12.535	12.649	12.824	0.15393	-0.0218	0.027467	0.0728	0.047422
1e+12	12.429	12.629	12.776	0.16579	12.469	12.638	12.764	0.14538	-0.0111	0.008675	0.0397	0.022008
5e+12	12.526	12.644	12.821	0.12504	12.54	12.633	12.814	0.12286	-0.036	-0.011	0.0143	0.020827
1e+13	12.359	12.64	12.789	0.19131	12.376	12.631	12.812	0.18319	-0.0451	-0.00915	0.0225	0.033565

Device Test: 5.69; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



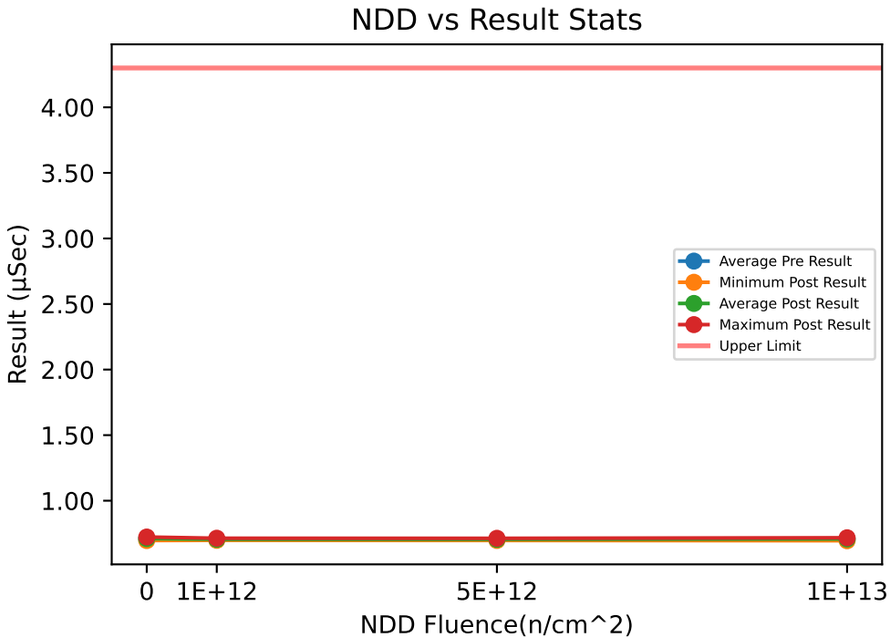
Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

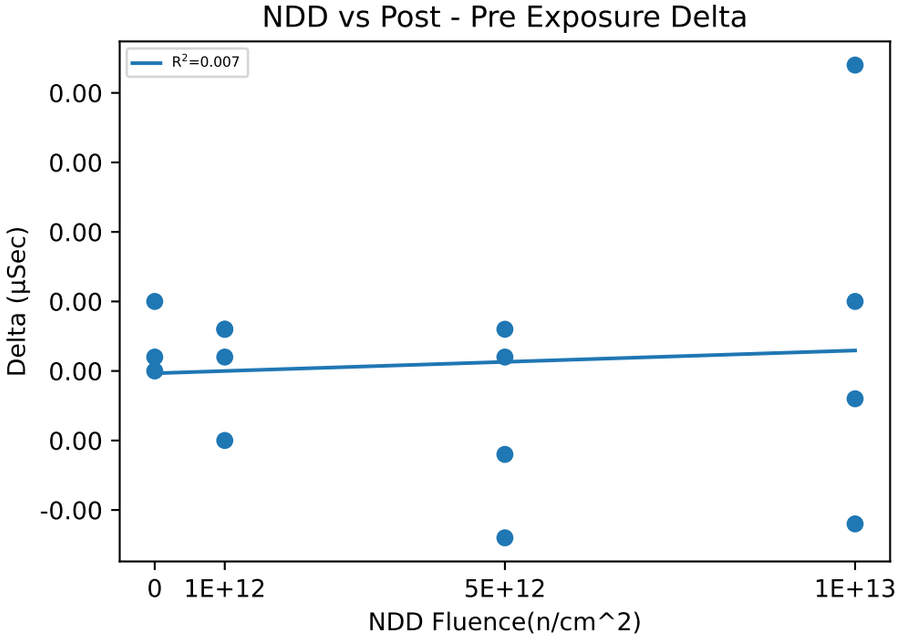
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.788	23.795	0.0075
304	1e+12	NDD Unbiased	24.418	24.376	-0.0423
305	1e+12	NDD Unbiased	23.972	24.097	0.1249
306	1e+12	NDD Unbiased	23.649	23.848	0.199
307	5e+12	NDD Unbiased	23.881	23.855	-0.0255
308	5e+12	NDD Unbiased	23.701	23.927	0.2252
309	5e+12	NDD Unbiased	23.766	23.925	0.159
310	5e+12	NDD Unbiased	24.414	24.414	0.0004
311	1e+13	NDD Unbiased	24.398	24.375	-0.0228
312	1e+13	NDD Unbiased	24.163	24.074	-0.089
313	1e+13	NDD Unbiased	24.129	24.055	-0.0744
314	1e+13	NDD Unbiased	23.347	23.373	0.0259
315	0	Correlation	24.309	24.354	0.0452
316	0	Correlation	23.657	23.654	-0.0029
317	0	Correlation	23.801	23.823	0.0217

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.657	23.923	24.309	0.34229	23.654	23.944	24.354	0.36517	-0.0029	0.021333	0.0452	0.024052
1e+12	23.649	23.957	24.418	0.33477	23.795	24.029	24.376	0.266	-0.0423	0.072275	0.199	0.10978
5e+12	23.701	23.94	24.414	0.32408	23.855	24.03	24.414	0.258	-0.0255	0.089775	0.2252	0.12167
1e+13	23.347	24.009	24.398	0.45755	23.373	23.969	24.375	0.42388	-0.089	-0.040075	0.0259	0.052355

Device Test: 5.7; PROPD_RESET





Test Results (Upper Limit = 4.3 (µSec))

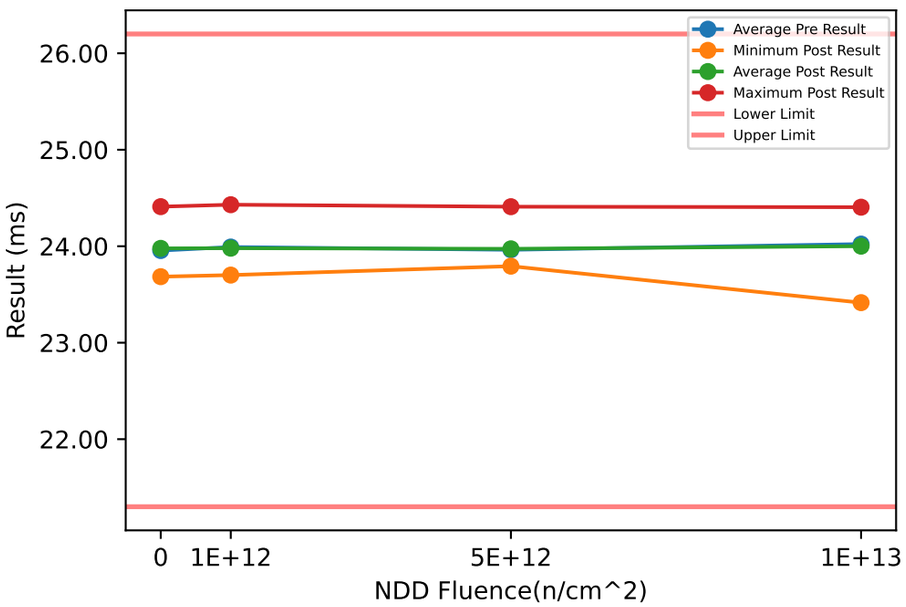
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.713	0.7138	0.0008
304	1e+12	NDD Unbiased	0.7	0.7	0
305	1e+12	NDD Unbiased	0.7102	0.711	0.0008
306	1e+12	NDD Unbiased	0.6973	0.6979	0.0006
307	5e+12	NDD Unbiased	0.7018	0.7017	-0.0001
308	5e+12	NDD Unbiased	0.7126	0.7132	0.0006
309	5e+12	NDD Unbiased	0.7102	0.7095	-0.0007
310	5e+12	NDD Unbiased	0.6961	0.6969	0.0008
311	1e+13	NDD Unbiased	0.7136	0.713	-0.0006
312	1e+13	NDD Unbiased	0.7066	0.7076	0.001
313	1e+13	NDD Unbiased	0.6945	0.6948	0.0003
314	1e+13	NDD Unbiased	0.7146	0.7173	0.0027
315	0	Correlation	0.6952	0.6962	0.001
316	0	Correlation	0.7131	0.7137	0.0006
317	0	Correlation	0.7224	0.7229	0.0005

Test Statistics (µSec)

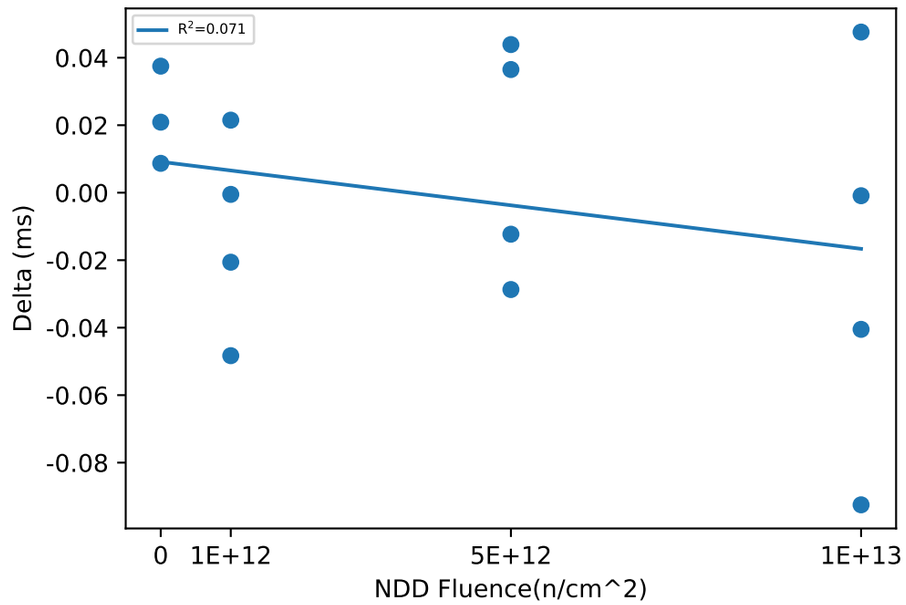
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6952	0.71023	0.7224	0.013825	0.6962	0.71093	0.7229	0.013563	0.0005	0.0007	0.001	0.00026458
1e+12	0.6973	0.70513	0.713	0.0076435	0.6979	0.70567	0.7138	0.0078957	0	0.00055	0.0008	0.00037859
5e+12	0.6961	0.70517	0.7126	0.0076186	0.6969	0.70532	0.7132	0.0073839	-0.0007	0.00015	0.0008	0.00068557
1e+13	0.6945	0.70732	0.7146	0.0092612	0.6948	0.70817	0.7173	0.0097599	-0.0006	0.00085	0.0027	0.0013964

Device Test: 5.70; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

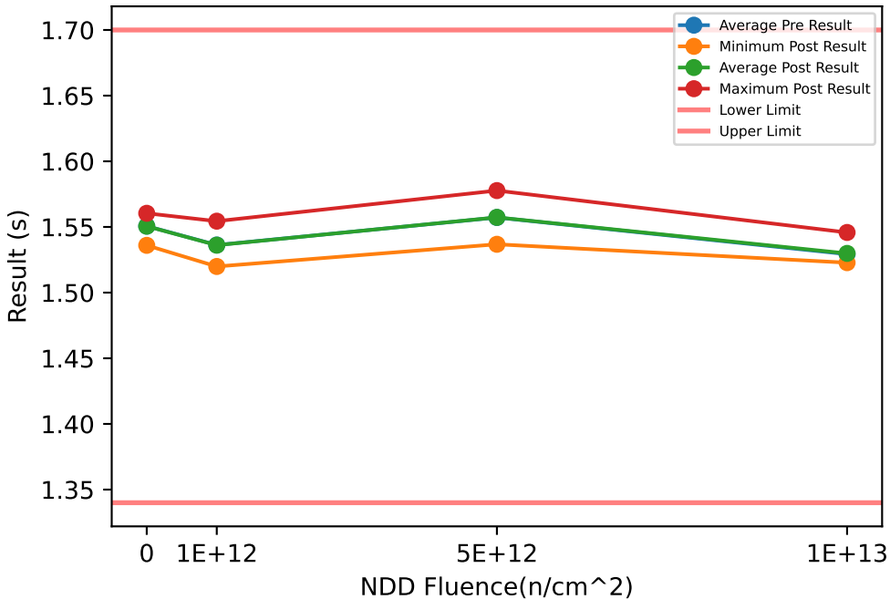
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.804	23.804	-0.0005
304	1e+12	NDD Unbiased	24.479	24.43	-0.0483
305	1e+12	NDD Unbiased	24.004	23.983	-0.0206
306	1e+12	NDD Unbiased	23.679	23.701	0.0215
307	5e+12	NDD Unbiased	23.899	23.887	-0.0123
308	5e+12	NDD Unbiased	23.749	23.793	0.0439
309	5e+12	NDD Unbiased	23.766	23.802	0.0365
310	5e+12	NDD Unbiased	24.438	24.41	-0.0287
311	1e+13	NDD Unbiased	24.405	24.405	-0.0009
312	1e+13	NDD Unbiased	24.195	24.102	-0.0925
313	1e+13	NDD Unbiased	24.121	24.08	-0.0405
314	1e+13	NDD Unbiased	23.368	23.415	0.0476
315	0	Correlation	24.373	24.41	0.0375
316	0	Correlation	23.676	23.684	0.0087
317	0	Correlation	23.818	23.839	0.0209

Test Statistics (ms)

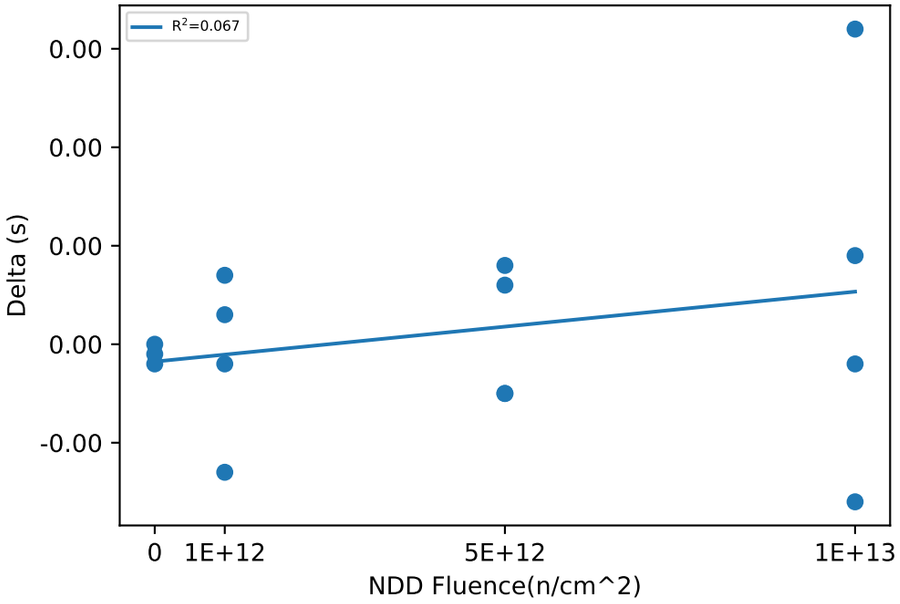
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.676	23.955	24.373	0.36829	23.684	23.978	24.41	0.38234	0.0087	0.022367	0.0375	0.014456
1e+12	23.679	23.992	24.479	0.35113	23.701	23.98	24.43	0.32235	-0.0483	-0.011975	0.0215	0.029699
5e+12	23.749	23.963	24.438	0.32384	23.793	23.973	24.41	0.29416	-0.0287	0.00985	0.0439	0.035807
1e+13	23.368	24.022	24.405	0.45272	23.415	24.001	24.405	0.41736	-0.0925	-0.021575	0.0476	0.059445

Device Test: 5.71; WD_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.34, Upper Limit = 1.7 (s))

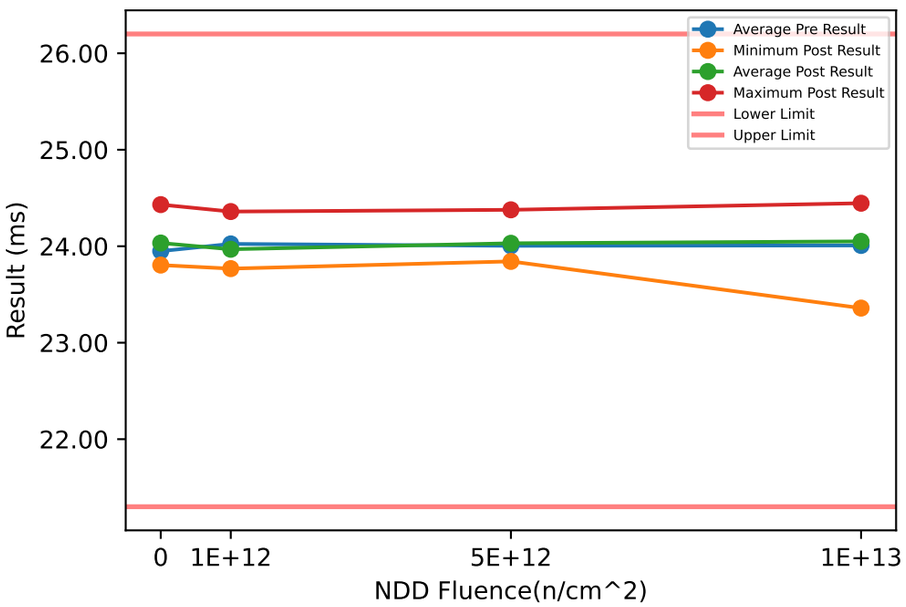
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.5212	1.5199	-0.0013
304	1e+12	NDD Unbiased	1.5451	1.5454	0.0003
305	1e+12	NDD Unbiased	1.5537	1.5544	0.0007
306	1e+12	NDD Unbiased	1.525	1.5248	-0.0002
307	5e+12	NDD Unbiased	1.5782	1.5777	-0.0005
308	5e+12	NDD Unbiased	1.5373	1.5368	-0.0005
309	5e+12	NDD Unbiased	1.5461	1.5467	0.0006
310	5e+12	NDD Unbiased	1.5672	1.568	0.0008
311	1e+13	NDD Unbiased	1.523	1.5228	-0.0002
312	1e+13	NDD Unbiased	1.5219	1.5251	0.0032
313	1e+13	NDD Unbiased	1.5273	1.5257	-0.0016
314	1e+13	NDD Unbiased	1.5449	1.5458	0.0009
315	0	Correlation	1.5362	1.536	-0.0002
316	0	Correlation	1.5554	1.5553	-0.0001
317	0	Correlation	1.5604	1.5604	0

Test Statistics (s)

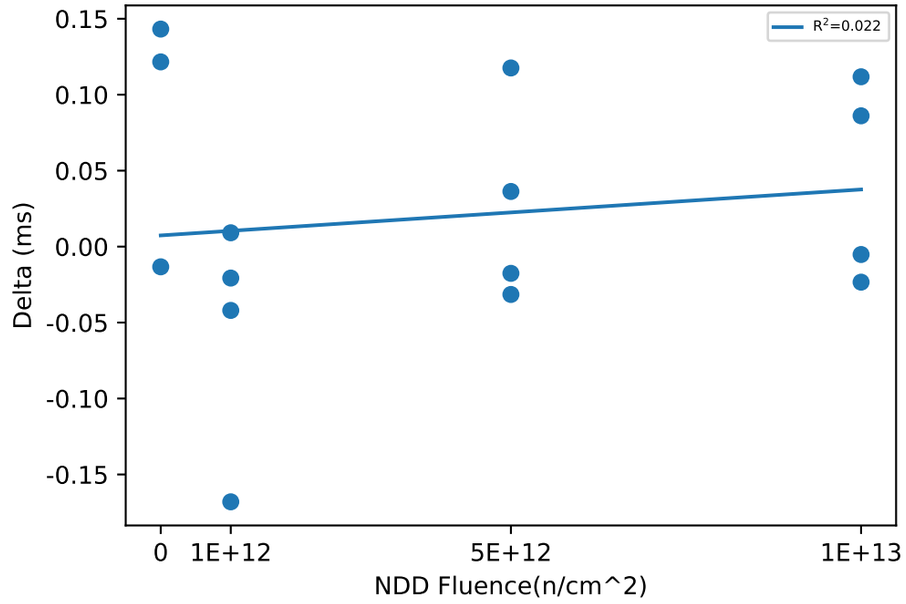
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5362	1.5507	1.5604	0.012775	1.536	1.5506	1.5604	0.01287	-0.0002	-0.0001	0	0.0001
1e+12	1.5212	1.5362	1.5537	0.015662	1.5199	1.5361	1.5544	0.016447	-0.0013	-0.000125	0.0007	0.00086554
5e+12	1.5373	1.5572	1.5782	0.018799	1.5368	1.5573	1.5777	0.018826	-0.0005	0.0001	0.0008	0.00069761
1e+13	1.5219	1.5293	1.5449	0.010674	1.5228	1.5298	1.5458	0.010707	-0.0016	0.000575	0.0032	0.0020271

Device Test: 5.72; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

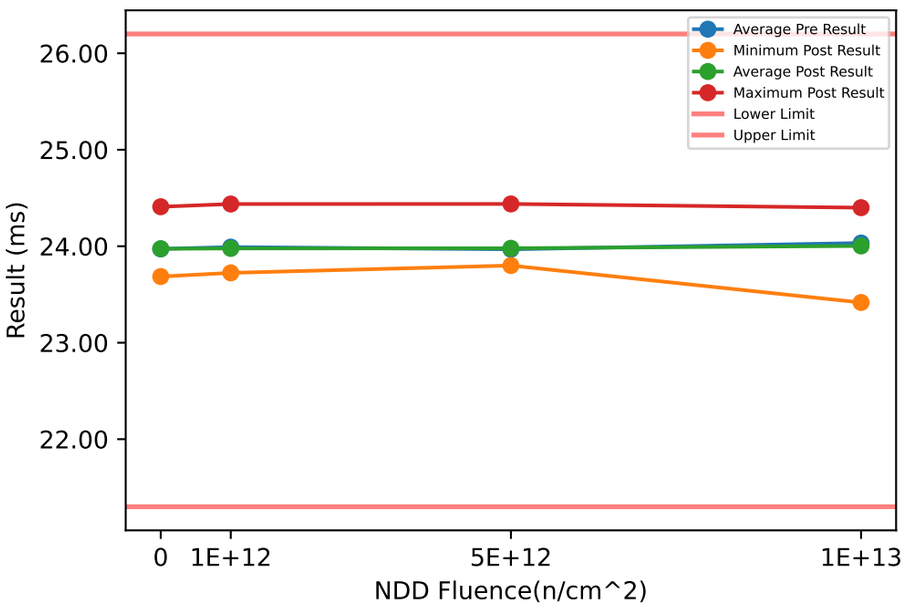
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.799	23.809	0.0091
304	1e+12	NDD Unbiased	24.527	24.36	-0.168
305	1e+12	NDD Unbiased	23.98	23.939	-0.042
306	1e+12	NDD Unbiased	23.789	23.768	-0.0207
307	5e+12	NDD Unbiased	23.881	23.998	0.1176
308	5e+12	NDD Unbiased	23.874	23.843	-0.0315
309	5e+12	NDD Unbiased	23.922	23.904	-0.0176
310	5e+12	NDD Unbiased	24.341	24.377	0.0363
311	1e+13	NDD Unbiased	24.334	24.446	0.1118
312	1e+13	NDD Unbiased	24.113	24.199	0.0861
313	1e+13	NDD Unbiased	24.221	24.198	-0.0234
314	1e+13	NDD Unbiased	23.364	23.359	-0.0052
315	0	Correlation	24.31	24.431	0.1216
316	0	Correlation	23.661	23.805	0.1432
317	0	Correlation	23.877	23.864	-0.0133

Test Statistics (ms)

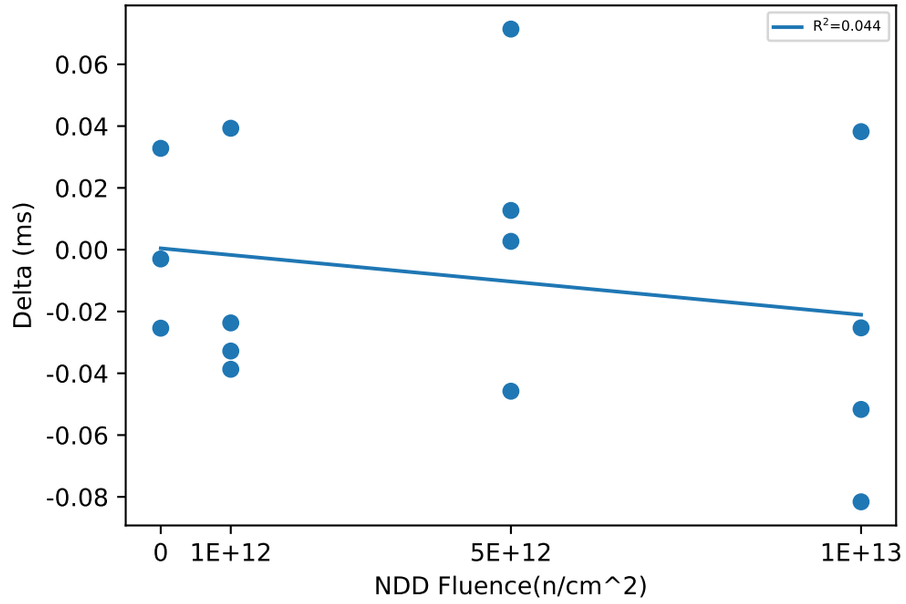
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.661	23.949	24.31	0.33015	23.805	24.033	24.431	0.34603	-0.0133	0.083833	0.1432	0.08481
1e+12	23.789	24.024	24.527	0.347	23.768	23.969	24.36	0.27055	-0.168	-0.0554	0.0091	0.077937
5e+12	23.874	24.004	24.341	0.22545	23.843	24.031	24.377	0.23986	-0.0315	0.0262	0.1176	0.067586
1e+13	23.364	24.008	24.334	0.43879	23.359	24.05	24.446	0.47561	-0.0234	0.042325	0.1118	0.066637

Device Test: 5.73; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

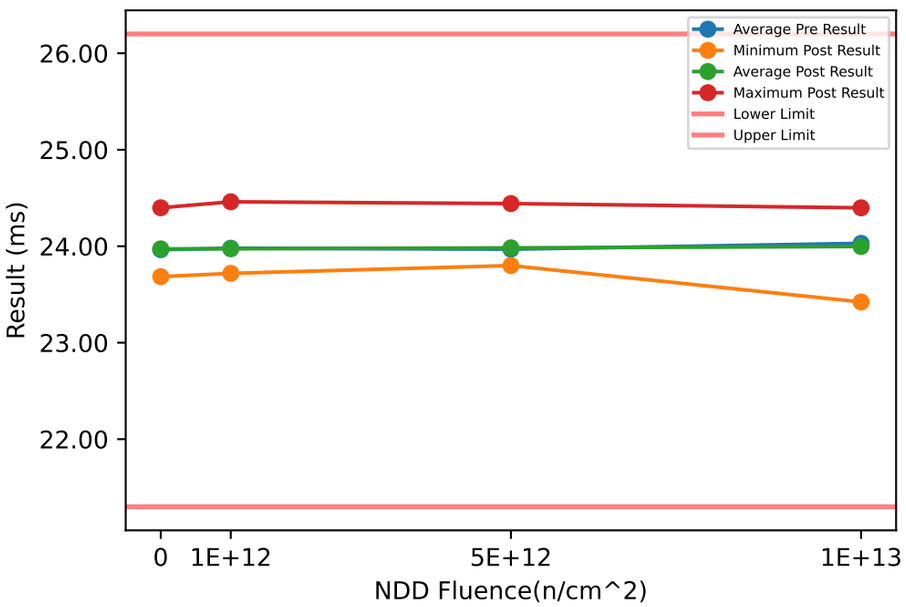
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.819	23.786	-0.0328
304	1e+12	NDD Unbiased	24.461	24.437	-0.0237
305	1e+12	NDD Unbiased	23.999	23.96	-0.0387
306	1e+12	NDD Unbiased	23.684	23.724	0.0393
307	5e+12	NDD Unbiased	23.916	23.871	-0.0458
308	5e+12	NDD Unbiased	23.735	23.807	0.0714
309	5e+12	NDD Unbiased	23.797	23.8	0.0027
310	5e+12	NDD Unbiased	24.425	24.438	0.0127
311	1e+13	NDD Unbiased	24.425	24.4	-0.0253
312	1e+13	NDD Unbiased	24.184	24.102	-0.0816
313	1e+13	NDD Unbiased	24.145	24.094	-0.0517
314	1e+13	NDD Unbiased	23.378	23.417	0.0382
315	0	Correlation	24.377	24.409	0.0328
316	0	Correlation	23.689	23.686	-0.003
317	0	Correlation	23.852	23.826	-0.0254

Test Statistics (ms)

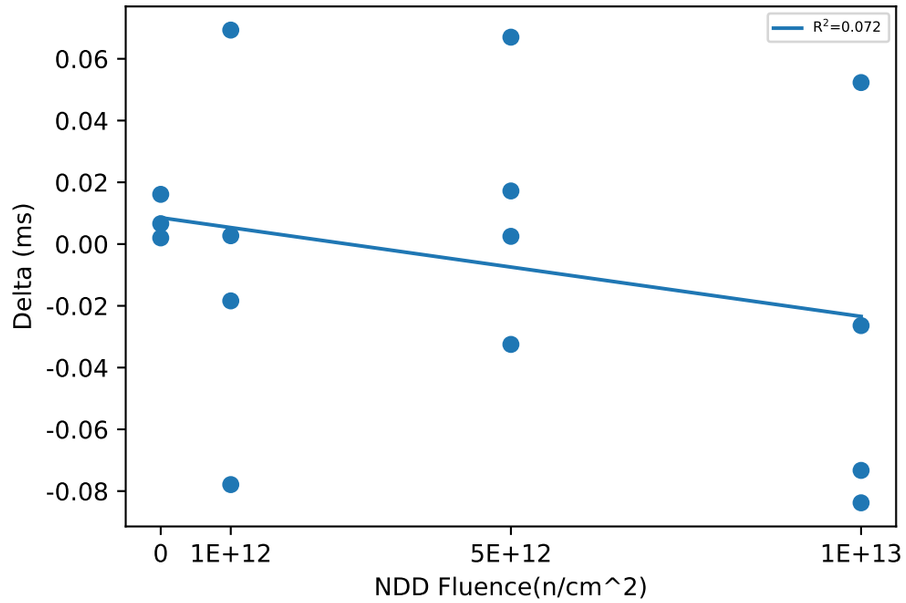
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.689	23.972	24.377	0.3594	23.686	23.974	24.409	0.38368	-0.0254	0.0014667	0.0328	0.029356
1e+12	23.684	23.991	24.461	0.33896	23.724	23.977	24.437	0.32294	-0.0387	-0.013975	0.0393	0.036049
5e+12	23.735	23.969	24.425	0.3137	23.8	23.979	24.438	0.30784	-0.0458	0.01025	0.0714	0.048111
1e+13	23.378	24.033	24.425	0.45362	23.417	24.003	24.4	0.41597	-0.0816	-0.0301	0.0382	0.051012

Device Test: 5.74; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

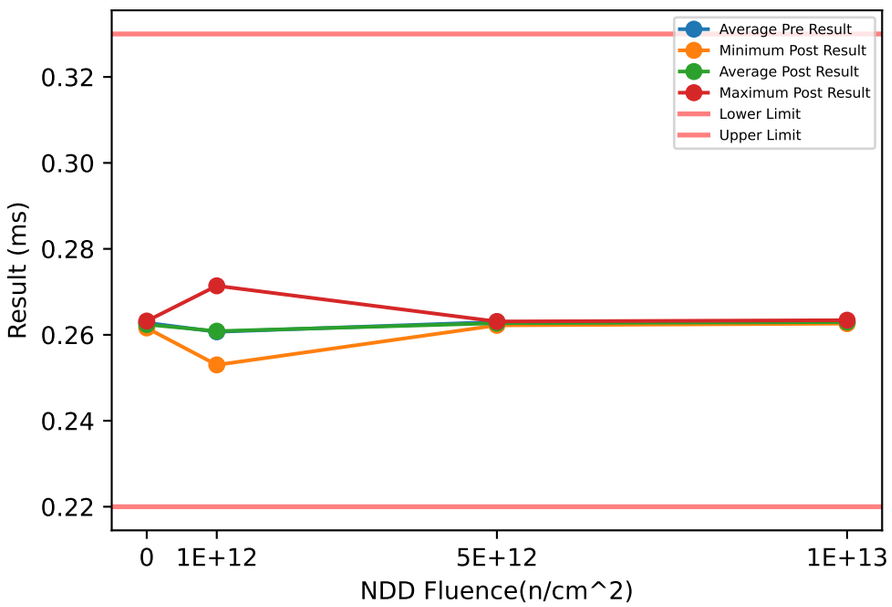
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.793	23.795	0.0027
304	1e+12	NDD Unbiased	24.479	24.46	-0.0184
305	1e+12	NDD Unbiased	23.997	23.919	-0.0779
306	1e+12	NDD Unbiased	23.649	23.719	0.0693
307	5e+12	NDD Unbiased	23.916	23.883	-0.0325
308	5e+12	NDD Unbiased	23.74	23.807	0.067
309	5e+12	NDD Unbiased	23.782	23.8	0.0172
310	5e+12	NDD Unbiased	24.44	24.442	0.0025
311	1e+13	NDD Unbiased	24.424	24.398	-0.0264
312	1e+13	NDD Unbiased	24.171	24.098	-0.0733
313	1e+13	NDD Unbiased	24.154	24.07	-0.0838
314	1e+13	NDD Unbiased	23.37	23.422	0.0523
315	0	Correlation	24.392	24.398	0.0066
316	0	Correlation	23.669	23.685	0.0161
317	0	Correlation	23.832	23.834	0.002

Test Statistics (ms)

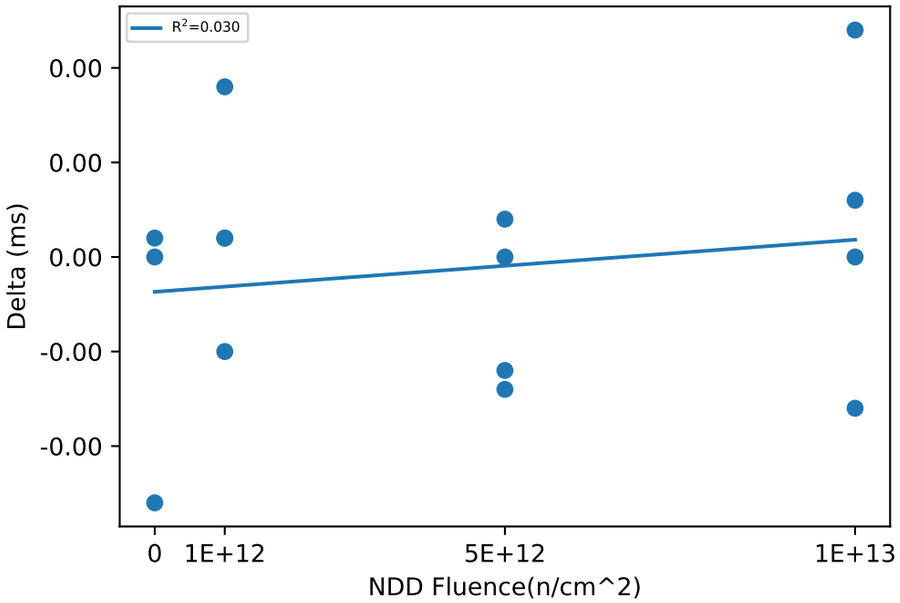
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.669	23.964	24.392	0.37939	23.685	23.972	24.398	0.37655	0.002	0.0082333	0.0161	0.0071905
1e+12	23.649	23.979	24.479	0.36223	23.719	23.973	24.46	0.33509	-0.0779	-0.006075	0.0693	0.060743
5e+12	23.74	23.969	24.44	0.32223	23.8	23.983	24.442	0.30839	-0.0325	0.01355	0.067	0.041283
1e+13	23.37	24.03	24.424	0.45692	23.422	23.997	24.398	0.4109	-0.0838	-0.0328	0.0523	0.061979

Device Test: 5.75; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

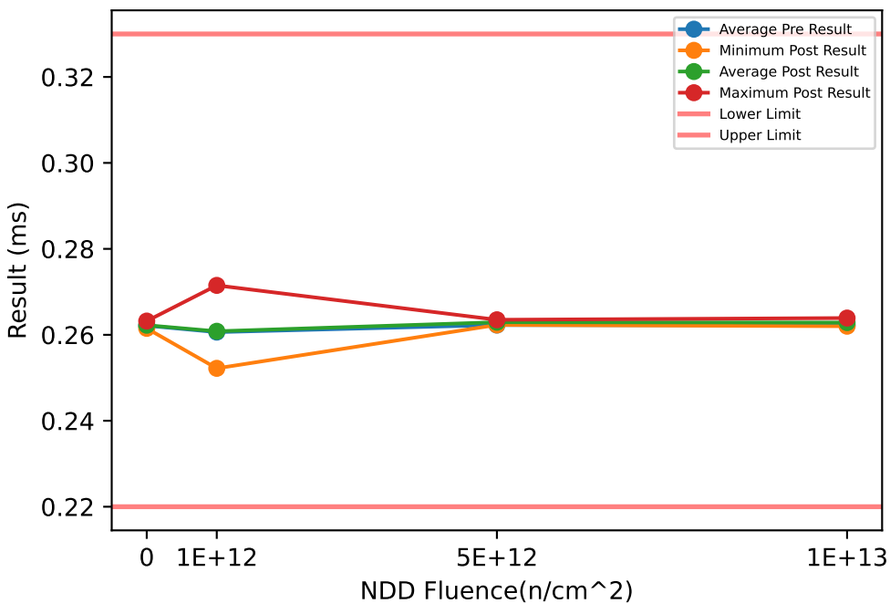
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2625	0.2626	0.0001
304	1e+12	NDD Unbiased	0.2569	0.2564	-0.0005
305	1e+12	NDD Unbiased	0.2705	0.2714	0.0009
306	1e+12	NDD Unbiased	0.2529	0.253	0.0001
307	5e+12	NDD Unbiased	0.2629	0.2622	-0.0007
308	5e+12	NDD Unbiased	0.2636	0.263	-0.0006
309	5e+12	NDD Unbiased	0.2631	0.2631	0
310	5e+12	NDD Unbiased	0.2623	0.2625	0.0002
311	1e+13	NDD Unbiased	0.2625	0.2628	0.0003
312	1e+13	NDD Unbiased	0.2631	0.2631	0
313	1e+13	NDD Unbiased	0.2642	0.2634	-0.0008
314	1e+13	NDD Unbiased	0.2614	0.2626	0.0012
315	0	Correlation	0.2637	0.2624	-0.0013
316	0	Correlation	0.2631	0.2632	0.0001
317	0	Correlation	0.2616	0.2616	0

Test Statistics (ms)

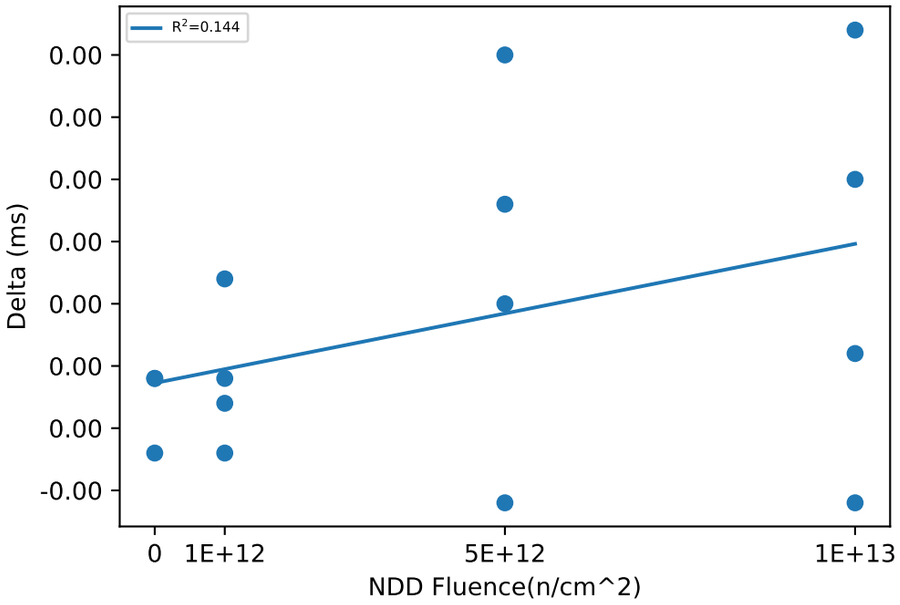
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2616	0.2628	0.2637	0.0010817	0.2616	0.2624	0.2632	0.0008	-0.0013	-0.0004	0.0001	0.00078102
1e+12	0.2529	0.2607	0.2705	0.007628	0.253	0.26085	0.2714	0.0080786	-0.0005	0.00015	0.0009	0.00057446
5e+12	0.2623	0.26298	0.2636	0.00053774	0.2622	0.2627	0.2631	0.00042426	-0.0007	-0.000275	0.0002	0.00044253
1e+13	0.2614	0.2628	0.2642	0.001169	0.2626	0.26298	0.2634	0.00035	-0.0008	0.000175	0.0012	0.00082614

Device Test: 5.76; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

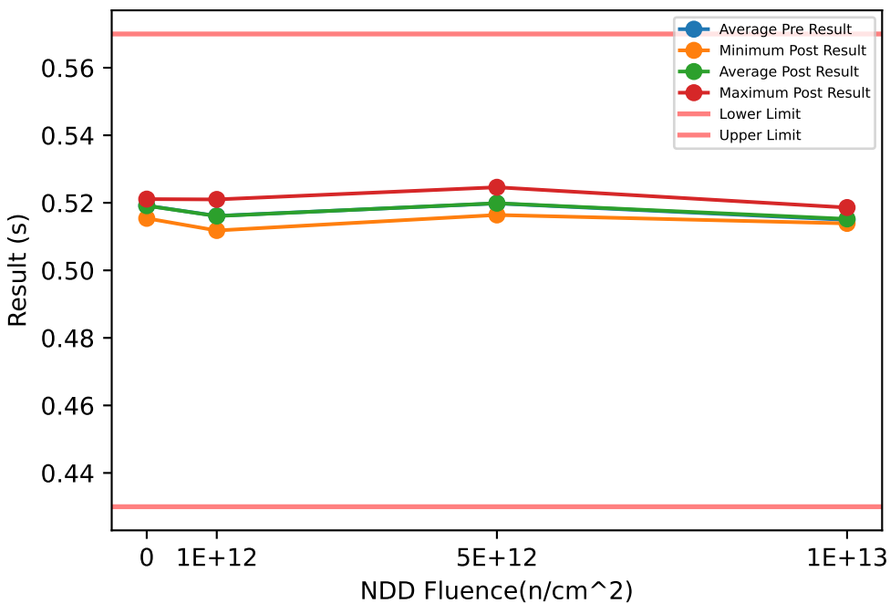
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2619	0.262	0.0001
304	1e+12	NDD Unbiased	0.257	0.2576	0.0006
305	1e+12	NDD Unbiased	0.2713	0.2715	0.0002
306	1e+12	NDD Unbiased	0.2523	0.2522	-0.0001
307	5e+12	NDD Unbiased	0.262	0.2635	0.0015
308	5e+12	NDD Unbiased	0.2626	0.2635	0.0009
309	5e+12	NDD Unbiased	0.2619	0.2624	0.0005
310	5e+12	NDD Unbiased	0.2626	0.2623	-0.0003
311	1e+13	NDD Unbiased	0.2612	0.2628	0.0016
312	1e+13	NDD Unbiased	0.2623	0.262	-0.0003
313	1e+13	NDD Unbiased	0.2636	0.2639	0.0003
314	1e+13	NDD Unbiased	0.2617	0.2627	0.001
315	0	Correlation	0.2621	0.262	-0.0001
316	0	Correlation	0.263	0.2632	0.0002
317	0	Correlation	0.2613	0.2615	0.0002

Test Statistics (ms)

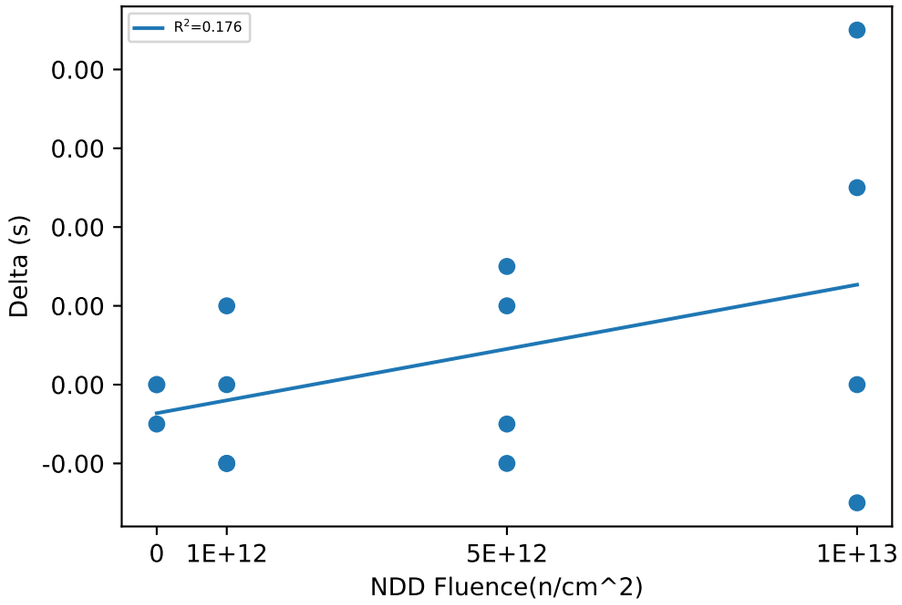
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2613	0.26213	0.263	0.00085049	0.2615	0.26223	0.2632	0.00087369	-0.0001	0.0001	0.0002	0.00017321
1e+12	0.2523	0.26062	0.2713	0.0081246	0.2522	0.26082	0.2715	0.0081676	-0.0001	0.0002	0.0006	0.00029439
5e+12	0.2619	0.26228	0.2626	0.00037749	0.2623	0.26293	0.2635	0.00066521	-0.0003	0.00065	0.0015	0.00075498
1e+13	0.2612	0.2622	0.2636	0.001036	0.262	0.26285	0.2639	0.00078528	-0.0003	0.00065	0.0016	0.00082664

Device Test: 5.77; WD_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.43, Upper Limit = 0.57 (s))

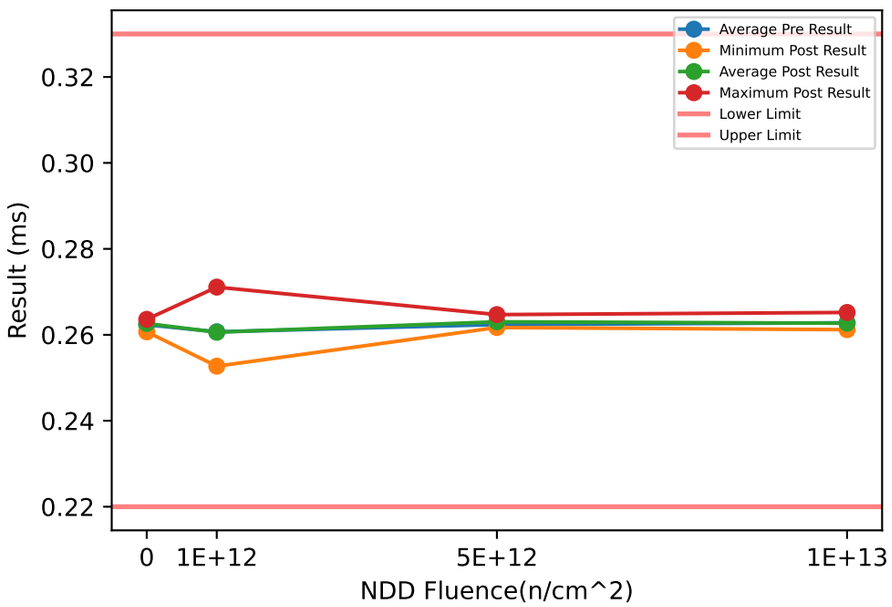
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.512	0.5118	-0.0002
304	1e+12	NDD Unbiased	0.5184	0.5182	-0.0002
305	1e+12	NDD Unbiased	0.5208	0.521	0.0002
306	1e+12	NDD Unbiased	0.5133	0.5133	0
307	5e+12	NDD Unbiased	0.5248	0.5246	-0.0002
308	5e+12	NDD Unbiased	0.5165	0.5164	-0.0001
309	5e+12	NDD Unbiased	0.5169	0.5172	0.0003
310	5e+12	NDD Unbiased	0.5211	0.5213	0.0002
311	1e+13	NDD Unbiased	0.5139	0.5139	0
312	1e+13	NDD Unbiased	0.5131	0.514	0.0009
313	1e+13	NDD Unbiased	0.5147	0.5144	-0.0003
314	1e+13	NDD Unbiased	0.5181	0.5186	0.0005
315	0	Correlation	0.5155	0.5154	-0.0001
316	0	Correlation	0.5211	0.5211	0
317	0	Correlation	0.5209	0.5209	0

Test Statistics (s)

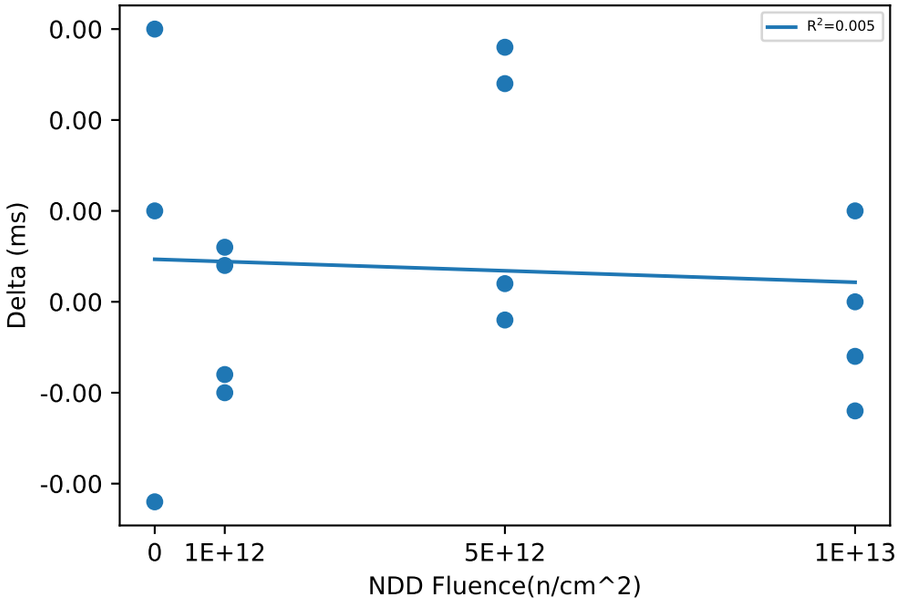
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5155	0.51917	0.5211	0.003177	0.5154	0.51913	0.5211	0.0032347	-0.0001	-3.3333e-05	0	5.7735e-05
1e+12	0.512	0.51612	0.5208	0.0041644	0.5118	0.51608	0.521	0.0042719	-0.0002	-5e-05	0.0002	0.00019149
5e+12	0.5165	0.51982	0.5248	0.0039152	0.5164	0.51987	0.5246	0.0038117	-0.0002	5e-05	0.0003	0.00023805
1e+13	0.5131	0.51495	0.5181	0.0021992	0.5139	0.51523	0.5186	0.0022603	-0.0003	0.000275	0.0009	0.00053151

Device Test: 5.78; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

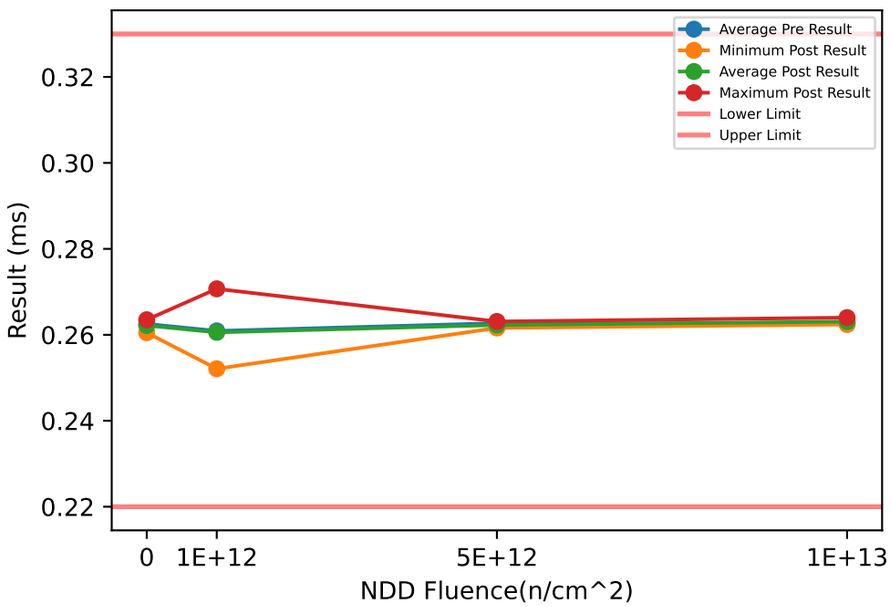
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2613	0.2615	0.0002
304	1e+12	NDD Unbiased	0.2576	0.2571	-0.0005
305	1e+12	NDD Unbiased	0.2715	0.2711	-0.0004
306	1e+12	NDD Unbiased	0.2524	0.2527	0.0003
307	5e+12	NDD Unbiased	0.2621	0.2622	0.0001
308	5e+12	NDD Unbiased	0.2635	0.2647	0.0012
309	5e+12	NDD Unbiased	0.2621	0.2635	0.0014
310	5e+12	NDD Unbiased	0.2618	0.2617	-0.0001
311	1e+13	NDD Unbiased	0.2615	0.2612	-0.0003
312	1e+13	NDD Unbiased	0.2631	0.2631	0
313	1e+13	NDD Unbiased	0.2647	0.2652	0.0005
314	1e+13	NDD Unbiased	0.2619	0.2613	-0.0006
315	0	Correlation	0.2621	0.2636	0.0015
316	0	Correlation	0.2631	0.2636	0.0005
317	0	Correlation	0.2618	0.2607	-0.0011

Test Statistics (ms)

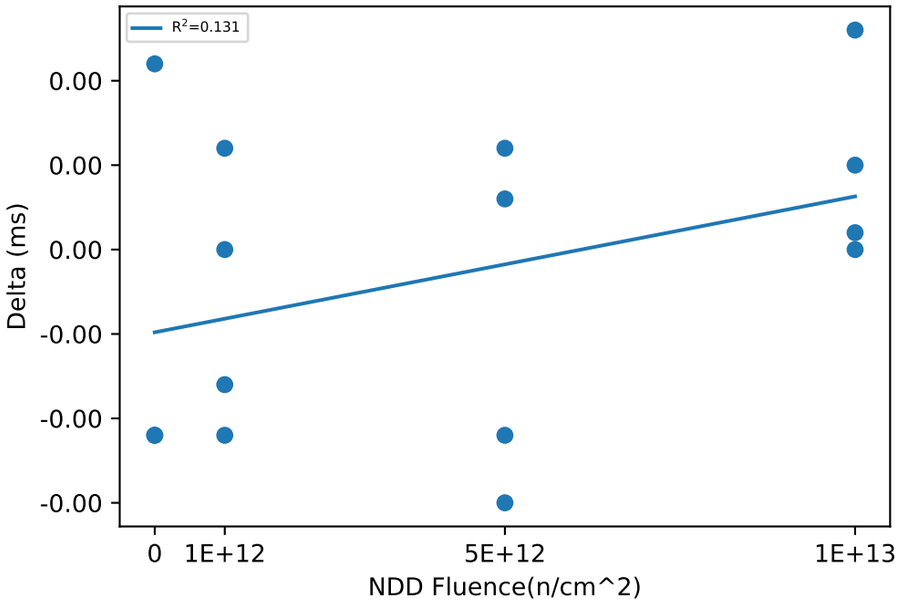
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2618	0.26233	0.2631	0.00068069	0.2607	0.26263	0.2636	0.0016743	-0.0011	0.0003	0.0015	0.0013115
1e+12	0.2524	0.2607	0.2715	0.0080726	0.2527	0.2606	0.2711	0.0078681	-0.0005	-0.0001	0.0003	0.00040825
5e+12	0.2618	0.26238	0.2635	0.00076322	0.2617	0.26303	0.2647	0.00135	-0.0001	0.00065	0.0014	0.00075939
1e+13	0.2615	0.2628	0.2647	0.0014376	0.2612	0.2627	0.2652	0.0018815	-0.0006	-0.0001	0.0005	0.00046904

Device Test: 5.79; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



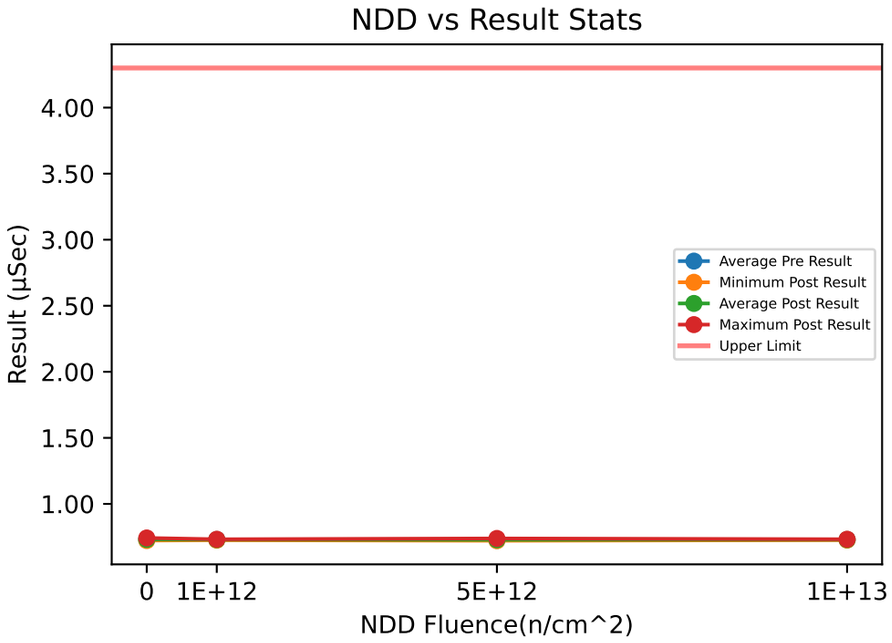
Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

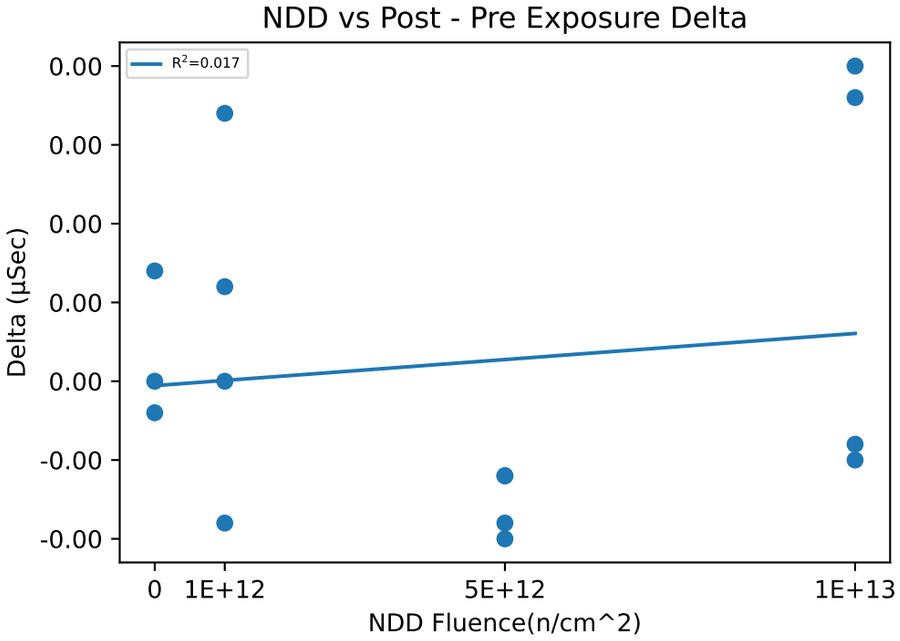
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2615	0.2621	0.0006
304	1e+12	NDD Unbiased	0.2574	0.2574	0
305	1e+12	NDD Unbiased	0.2718	0.2707	-0.0011
306	1e+12	NDD Unbiased	0.2529	0.2521	-0.0008
307	5e+12	NDD Unbiased	0.2633	0.2618	-0.0015
308	5e+12	NDD Unbiased	0.2642	0.2631	-0.0011
309	5e+12	NDD Unbiased	0.262	0.2626	0.0006
310	5e+12	NDD Unbiased	0.2613	0.2616	0.0003
311	1e+13	NDD Unbiased	0.2614	0.2627	0.0013
312	1e+13	NDD Unbiased	0.2631	0.2632	0.0001
313	1e+13	NDD Unbiased	0.2635	0.264	0.0005
314	1e+13	NDD Unbiased	0.2624	0.2624	0
315	0	Correlation	0.2636	0.2625	-0.0011
316	0	Correlation	0.2624	0.2635	0.0011
317	0	Correlation	0.2616	0.2605	-0.0011

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2616	0.26253	0.2636	0.0010066	0.2605	0.26217	0.2635	0.0015275	-0.0011	-0.00036667	0.0011	0.0012702
1e+12	0.2529	0.2609	0.2718	0.0080709	0.2521	0.26058	0.2707	0.0078898	-0.0011	-0.000325	0.0006	0.0007719
5e+12	0.2613	0.2627	0.2642	0.0012987	0.2616	0.26227	0.2631	0.0006994	-0.0015	-0.000425	0.0006	0.0010308
1e+13	0.2614	0.2626	0.2635	0.00092014	0.2624	0.26308	0.264	0.0006994	0	0.000475	0.0013	0.0005909

Device Test: 5.8; PROPD_PWRGD





Test Results (Upper Limit = 4.3 (µSec))

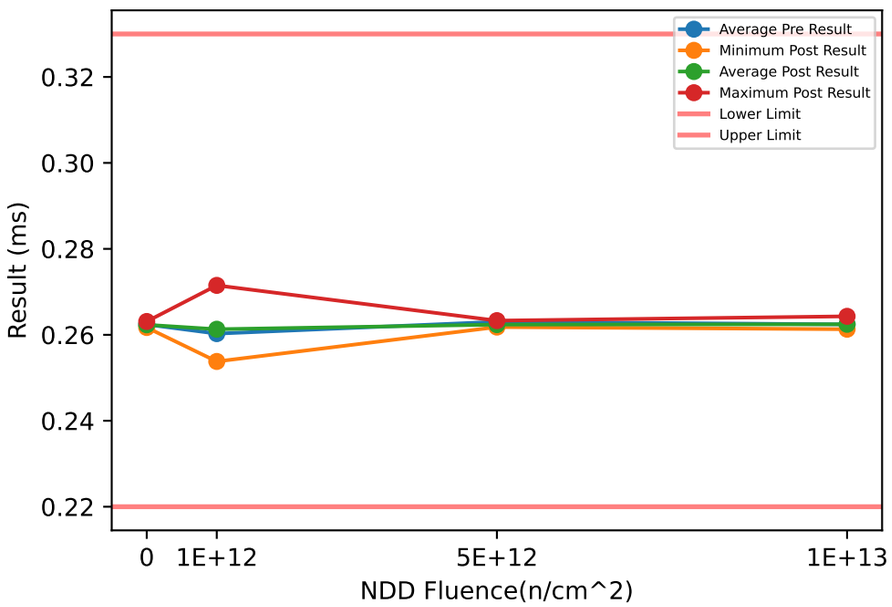
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7282	0.7299	0.0017
304	1e+12	NDD Unbiased	0.7315	0.7315	0
305	1e+12	NDD Unbiased	0.7248	0.7254	0.0006
306	1e+12	NDD Unbiased	0.7332	0.7323	-0.0009
307	5e+12	NDD Unbiased	0.7334	0.7328	-0.0006
308	5e+12	NDD Unbiased	0.7223	0.7213	-0.001
309	5e+12	NDD Unbiased	0.739	0.7384	-0.0006
310	5e+12	NDD Unbiased	0.7226	0.7217	-0.0009
311	1e+13	NDD Unbiased	0.7308	0.7303	-0.0005
312	1e+13	NDD Unbiased	0.7307	0.7325	0.0018
313	1e+13	NDD Unbiased	0.7239	0.7259	0.002
314	1e+13	NDD Unbiased	0.7309	0.7305	-0.0004
315	0	Correlation	0.7279	0.7286	0.0007
316	0	Correlation	0.7229	0.7227	-0.0002
317	0	Correlation	0.7421	0.7421	0

Test Statistics (µSec)

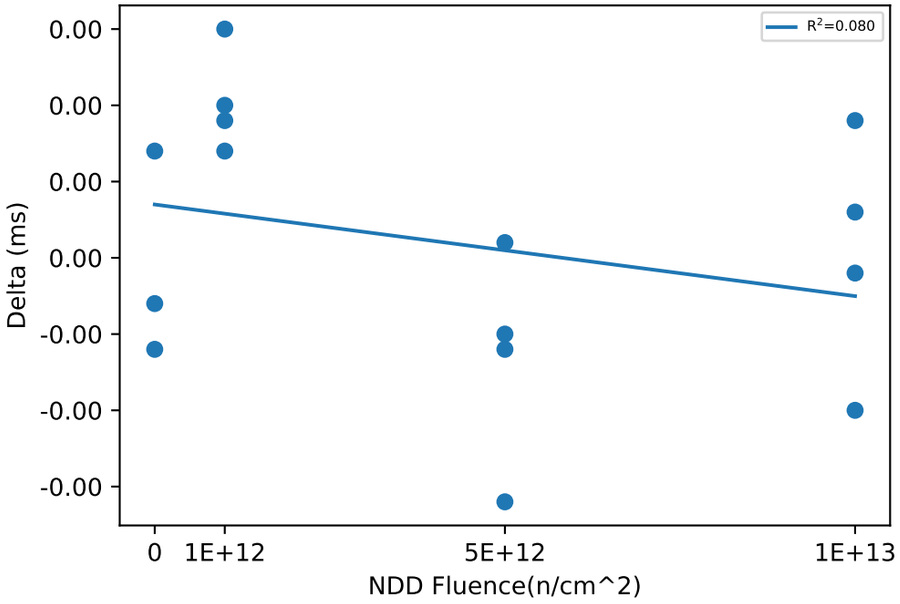
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7229	0.73097	0.7421	0.0099606	0.7227	0.73113	0.7421	0.009945	-0.0002	0.00016667	0.0007	0.00047258
1e+12	0.7248	0.72942	0.7332	0.003717	0.7254	0.72978	0.7323	0.0030826	-0.0009	0.00035	0.0017	0.0010909
5e+12	0.7223	0.72933	0.739	0.0082621	0.7213	0.72855	0.7384	0.0084571	-0.001	-0.000775	-0.0006	0.00020616
1e+13	0.7239	0.72908	0.7309	0.003451	0.7259	0.7298	0.7325	0.0027833	-0.0005	0.000725	0.002	0.0013598

Device Test: 5.80; DLY_TMR_10KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.22, Upper Limit = 0.33 (ms))

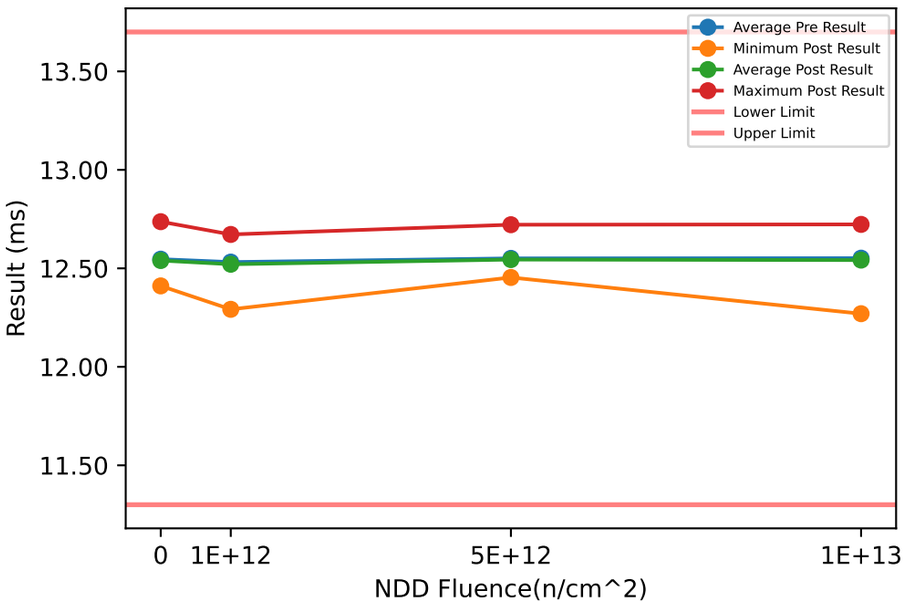
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2612	0.2622	0.001
304	1e+12	NDD Unbiased	0.257	0.2577	0.0007
305	1e+12	NDD Unbiased	0.27	0.2715	0.0015
306	1e+12	NDD Unbiased	0.2529	0.2538	0.0009
307	5e+12	NDD Unbiased	0.2617	0.2618	0.0001
308	5e+12	NDD Unbiased	0.2639	0.2633	-0.0006
309	5e+12	NDD Unbiased	0.2636	0.262	-0.0016
310	5e+12	NDD Unbiased	0.2629	0.2624	-0.0005
311	1e+13	NDD Unbiased	0.2623	0.2613	-0.001
312	1e+13	NDD Unbiased	0.2624	0.2623	-0.0001
313	1e+13	NDD Unbiased	0.264	0.2643	0.0003
314	1e+13	NDD Unbiased	0.261	0.2619	0.0009
315	0	Correlation	0.2625	0.2622	-0.0003
316	0	Correlation	0.2637	0.2631	-0.0006
317	0	Correlation	0.261	0.2617	0.0007

Test Statistics (ms)

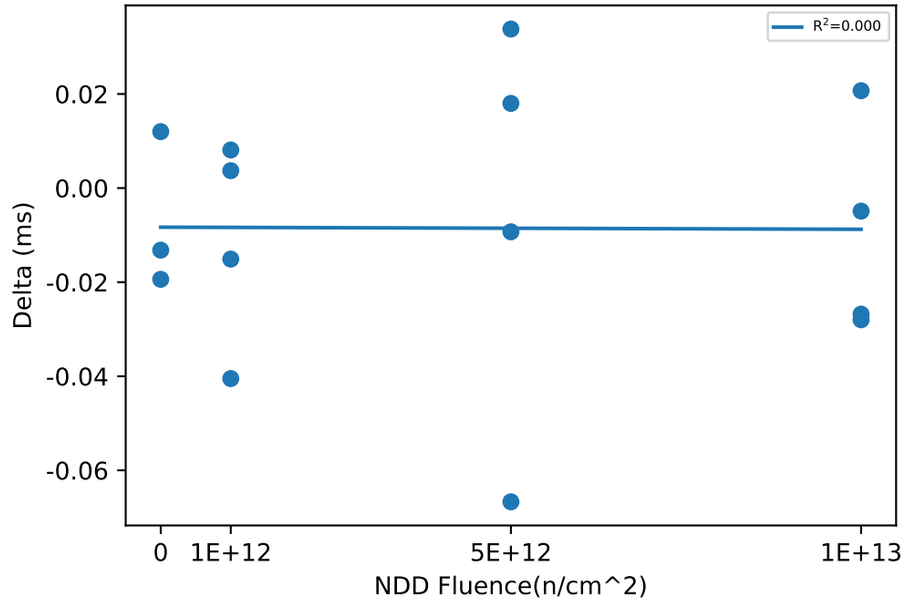
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.261	0.2624	0.2637	0.0013528	0.2617	0.26233	0.2631	0.00070946	-0.0006	-6.6667e-05	0.0007	0.00068069
1e+12	0.2529	0.26028	0.27	0.0073155	0.2538	0.2613	0.2715	0.0076171	0.0007	0.001025	0.0015	0.00034034
5e+12	0.2617	0.26303	0.2639	0.00097767	0.2618	0.26238	0.2633	0.00066521	-0.0016	-0.00065	0.0001	0.00070475
1e+13	0.261	0.26243	0.264	0.0012285	0.2613	0.26245	0.2643	0.0013	-0.001	2.5e-05	0.0009	0.00079739

Device Test: 5.81; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

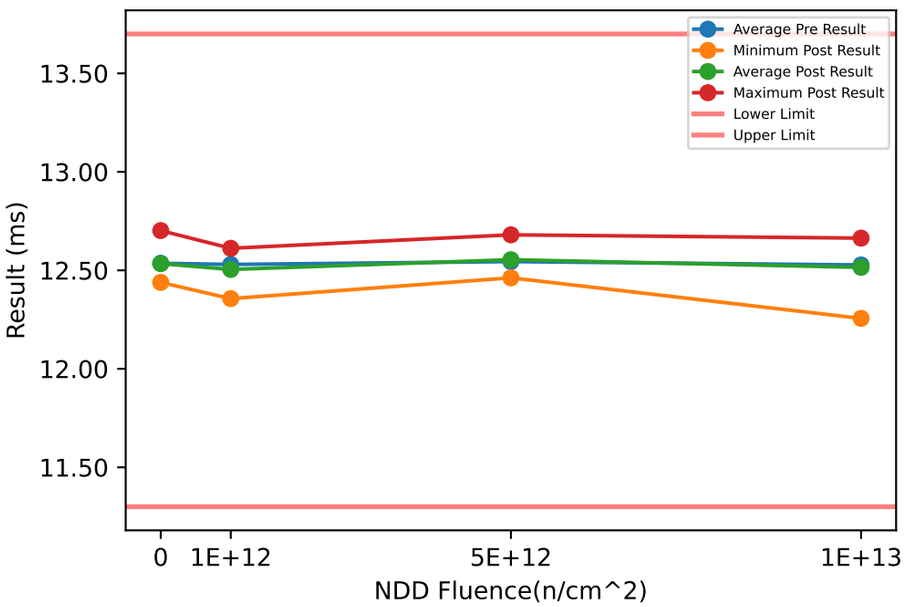
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.467	12.452	-0.0151
304	1e+12	NDD Unbiased	12.668	12.672	0.0037
305	1e+12	NDD Unbiased	12.659	12.667	0.0081
306	1e+12	NDD Unbiased	12.332	12.292	-0.0405
307	5e+12	NDD Unbiased	12.575	12.509	-0.0667
308	5e+12	NDD Unbiased	12.461	12.494	0.0338
309	5e+12	NDD Unbiased	12.436	12.454	0.018
310	5e+12	NDD Unbiased	12.731	12.722	-0.0093
311	1e+13	NDD Unbiased	12.728	12.723	-0.0049
312	1e+13	NDD Unbiased	12.6	12.572	-0.028
313	1e+13	NDD Unbiased	12.63	12.603	-0.0268
314	1e+13	NDD Unbiased	12.249	12.27	0.0207
315	0	Correlation	12.75	12.737	-0.0132
316	0	Correlation	12.43	12.411	-0.0194
317	0	Correlation	12.459	12.471	0.012

Test Statistics (ms)

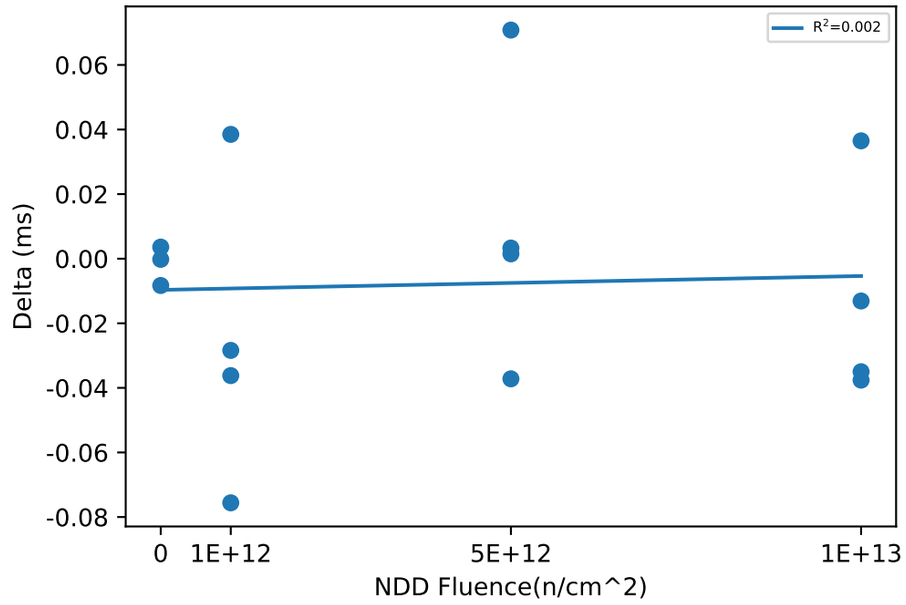
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.43	12.547	12.75	0.17684	12.411	12.54	12.737	0.17341	-0.0194	-0.0068667	0.012	0.01663
1e+12	12.332	12.532	12.668	0.16212	12.292	12.521	12.672	0.18393	-0.0405	-0.01095	0.0081	0.022121
5e+12	12.436	12.551	12.731	0.13464	12.454	12.545	12.722	0.12024	-0.0667	-0.00605	0.0338	0.044179
1e+13	12.249	12.552	12.728	0.209	12.27	12.542	12.723	0.19278	-0.028	-0.00975	0.0207	0.022909

Device Test: 5.82; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

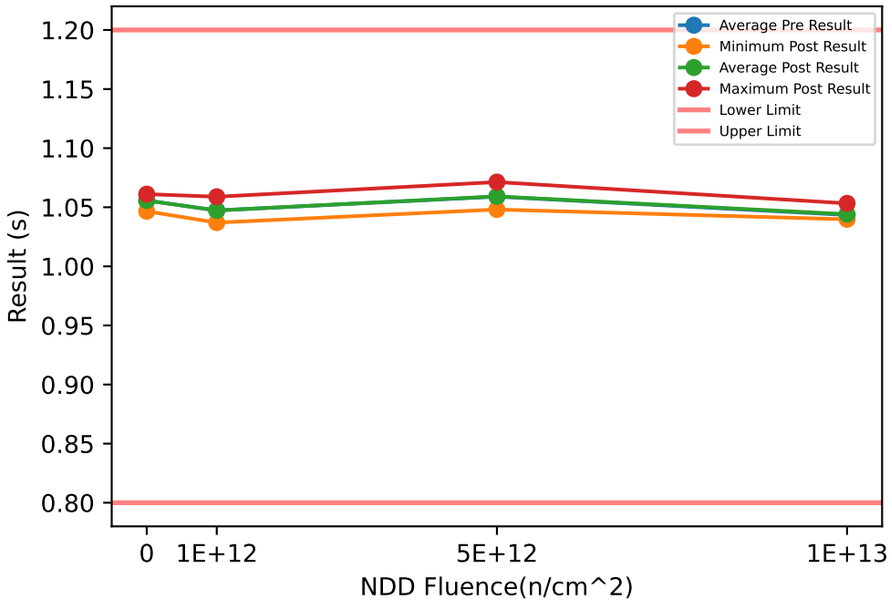
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.516	12.44	-0.0756
304	1e+12	NDD Unbiased	12.648	12.612	-0.0362
305	1e+12	NDD Unbiased	12.638	12.609	-0.0284
306	1e+12	NDD Unbiased	12.318	12.356	0.0385
307	5e+12	NDD Unbiased	12.486	12.556	0.0708
308	5e+12	NDD Unbiased	12.499	12.462	-0.0372
309	5e+12	NDD Unbiased	12.514	12.517	0.0033
310	5e+12	NDD Unbiased	12.679	12.68	0.0015
311	1e+13	NDD Unbiased	12.699	12.664	-0.035
312	1e+13	NDD Unbiased	12.598	12.561	-0.0376
313	1e+13	NDD Unbiased	12.593	12.58	-0.0131
314	1e+13	NDD Unbiased	12.22	12.256	0.0365
315	0	Correlation	12.698	12.702	0.0036
316	0	Correlation	12.47	12.462	-0.0083
317	0	Correlation	12.439	12.439	-0.0002

Test Statistics (ms)

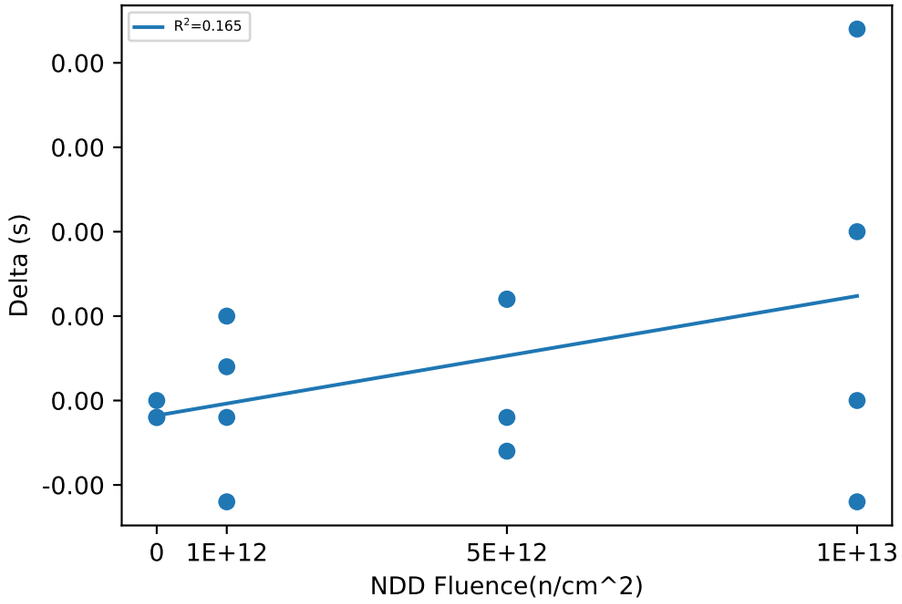
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.439	12.536	12.698	0.14159	12.439	12.534	12.702	0.14572	-0.0083	-0.0016333	0.0036	0.0060781
1e+12	12.318	12.53	12.648	0.1536	12.356	12.505	12.612	0.1273	-0.0756	-0.025425	0.0385	0.04736
5e+12	12.486	12.544	12.679	0.090298	12.462	12.554	12.68	0.092634	-0.0372	0.0096	0.0708	0.044874
1e+13	12.22	12.527	12.699	0.21085	12.256	12.515	12.664	0.17832	-0.0376	-0.0123	0.0365	0.034339

Device Test: 5.83; WD_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.8, Upper Limit = 1.2 (s))

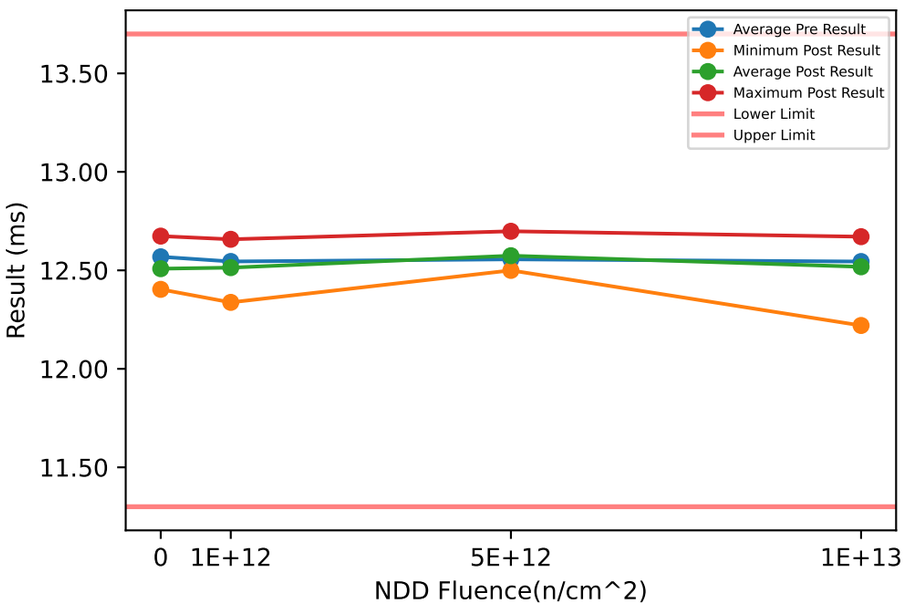
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.0376	1.037	-0.0006
304	1e+12	NDD Unbiased	1.0526	1.0528	0.0002
305	1e+12	NDD Unbiased	1.0584	1.0589	0.0005
306	1e+12	NDD Unbiased	1.0406	1.0405	-0.0001
307	5e+12	NDD Unbiased	1.0716	1.0713	-0.0003
308	5e+12	NDD Unbiased	1.0482	1.0481	-0.0001
309	5e+12	NDD Unbiased	1.0521	1.0527	0.0006
310	5e+12	NDD Unbiased	1.0641	1.0647	0.0006
311	1e+13	NDD Unbiased	1.0398	1.0398	0
312	1e+13	NDD Unbiased	1.0392	1.0414	0.0022
313	1e+13	NDD Unbiased	1.0426	1.042	-0.0006
314	1e+13	NDD Unbiased	1.0523	1.0533	0.001
315	0	Correlation	1.0467	1.0466	-0.0001
316	0	Correlation	1.0593	1.0593	0
317	0	Correlation	1.0612	1.0611	-0.0001

Test Statistics (s)

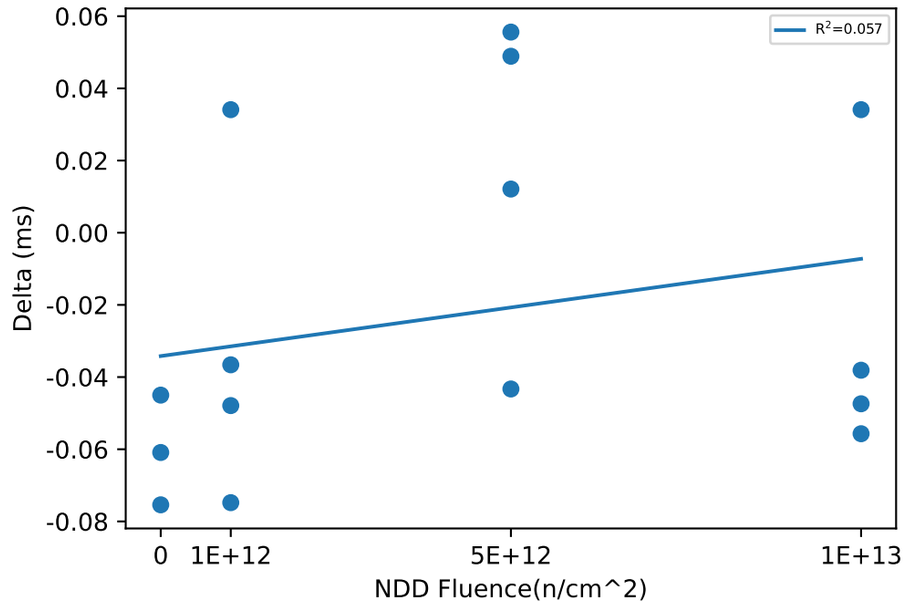
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0467	1.0557	1.0612	0.0078806	1.0466	1.0557	1.0611	0.0079034	-0.0001	-6.6667e-05	0	5.7735e-05
1e+12	1.0376	1.0473	1.0584	0.0098367	1.037	1.0473	1.0589	0.010282	-0.0006	-5.5511e-17	0.0005	0.00046904
5e+12	1.0482	1.059	1.0716	0.010786	1.0481	1.0592	1.0713	0.010679	-0.0003	0.0002	0.0006	0.00046904
1e+13	1.0392	1.0435	1.0523	0.0060671	1.0398	1.0441	1.0533	0.0061867	-0.0006	0.00065	0.0022	0.0012261

Device Test: 5.84; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



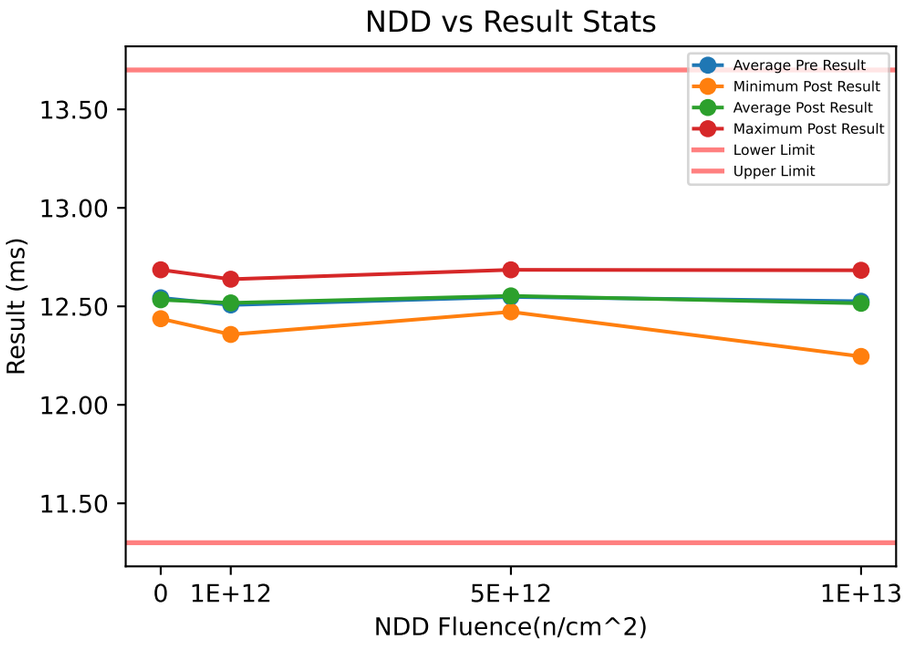
Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

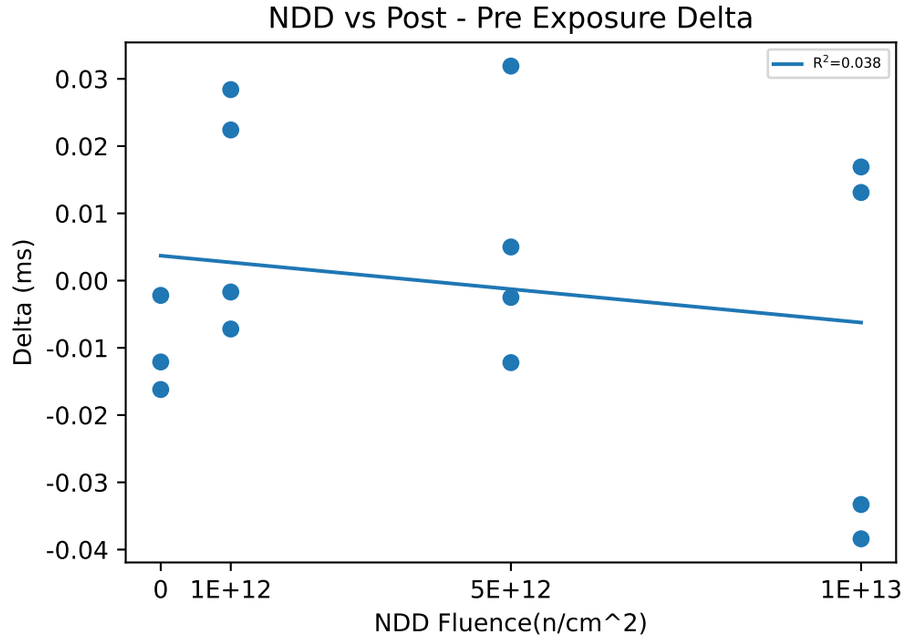
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.496	12.46	-0.0366
304	1e+12	NDD Unbiased	12.706	12.658	-0.0479
305	1e+12	NDD Unbiased	12.675	12.6	-0.0748
306	1e+12	NDD Unbiased	12.303	12.337	0.0341
307	5e+12	NDD Unbiased	12.496	12.552	0.0556
308	5e+12	NDD Unbiased	12.498	12.547	0.0489
309	5e+12	NDD Unbiased	12.488	12.5	0.0121
310	5e+12	NDD Unbiased	12.742	12.698	-0.0433
311	1e+13	NDD Unbiased	12.727	12.671	-0.0557
312	1e+13	NDD Unbiased	12.588	12.55	-0.0381
313	1e+13	NDD Unbiased	12.597	12.631	0.0341
314	1e+13	NDD Unbiased	12.268	12.22	-0.0474
315	0	Correlation	12.735	12.674	-0.0609
316	0	Correlation	12.479	12.403	-0.0754
317	0	Correlation	12.493	12.448	-0.045

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.479	12.569	12.735	0.14382	12.403	12.508	12.674	0.14495	-0.0754	-0.060433	-0.045	0.015205
1e+12	12.303	12.545	12.706	0.18569	12.337	12.514	12.658	0.14396	-0.0748	-0.0313	0.0341	0.046451
5e+12	12.488	12.556	12.742	0.1239	12.5	12.574	12.698	0.086011	-0.0433	0.018325	0.0556	0.045316
1e+13	12.268	12.545	12.727	0.1954	12.22	12.518	12.671	0.20488	-0.0557	-0.026775	0.0341	0.041215

Device Test: 5.85; DLY_TMR_500KOHM





Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

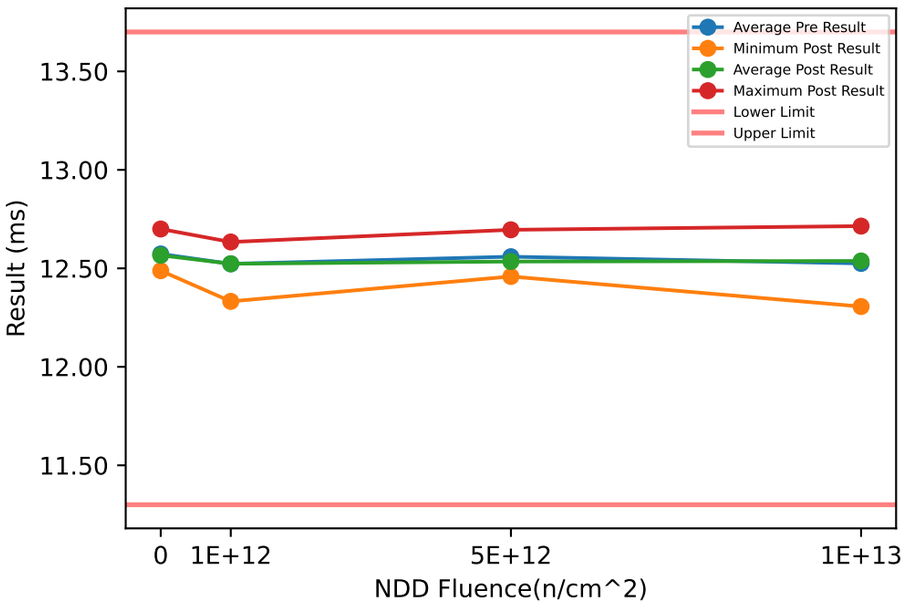
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.449	12.442	-0.0072
304	1e+12	NDD Unbiased	12.615	12.638	0.0224
305	1e+12	NDD Unbiased	12.635	12.633	-0.0017
306	1e+12	NDD Unbiased	12.329	12.357	0.0284
307	5e+12	NDD Unbiased	12.484	12.472	-0.0122
308	5e+12	NDD Unbiased	12.507	12.539	0.0319
309	5e+12	NDD Unbiased	12.512	12.517	0.005
310	5e+12	NDD Unbiased	12.688	12.685	-0.0025
311	1e+13	NDD Unbiased	12.666	12.683	0.0169
312	1e+13	NDD Unbiased	12.597	12.558	-0.0384
313	1e+13	NDD Unbiased	12.608	12.575	-0.0333
314	1e+13	NDD Unbiased	12.233	12.246	0.0131
315	0	Correlation	12.698	12.686	-0.0121
316	0	Correlation	12.493	12.477	-0.0162
317	0	Correlation	12.439	12.437	-0.0022

Test Statistics (ms)

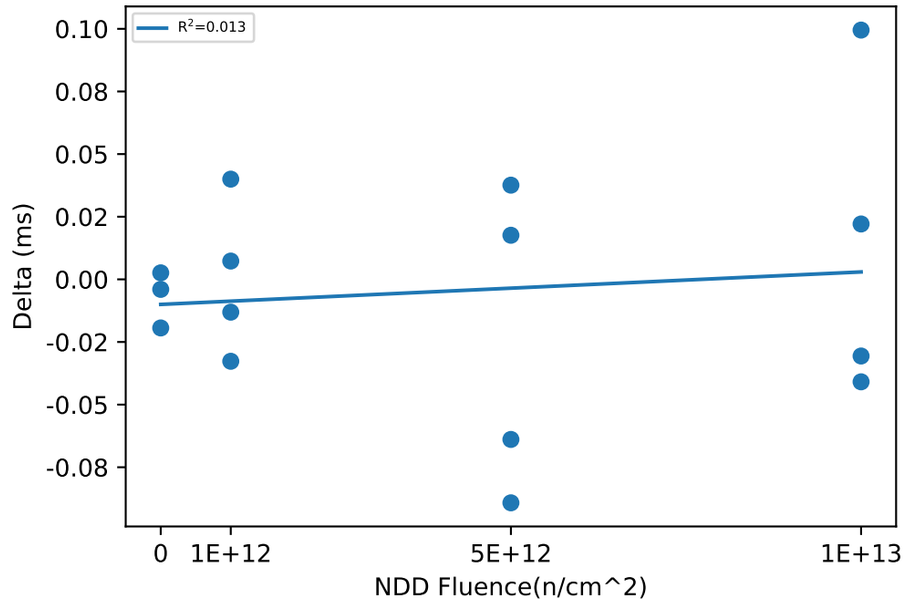
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.439	12.543	12.698	0.13632	12.437	12.533	12.686	0.13346	-0.0162	-0.010167	-0.0022	0.0071975
1e+12	12.329	12.507	12.635	0.14508	12.357	12.517	12.638	0.14048	-0.0072	0.010475	0.0284	0.017551
5e+12	12.484	12.548	12.688	0.094293	12.472	12.553	12.685	0.09241	-0.0122	0.00555	0.0319	0.018925
1e+13	12.233	12.526	12.666	0.19787	12.246	12.515	12.683	0.18817	-0.0384	-0.010425	0.0169	0.029473

Device Test: 5.86; DLY_TMR_500KOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 11.3, Upper Limit = 13.7 (ms))

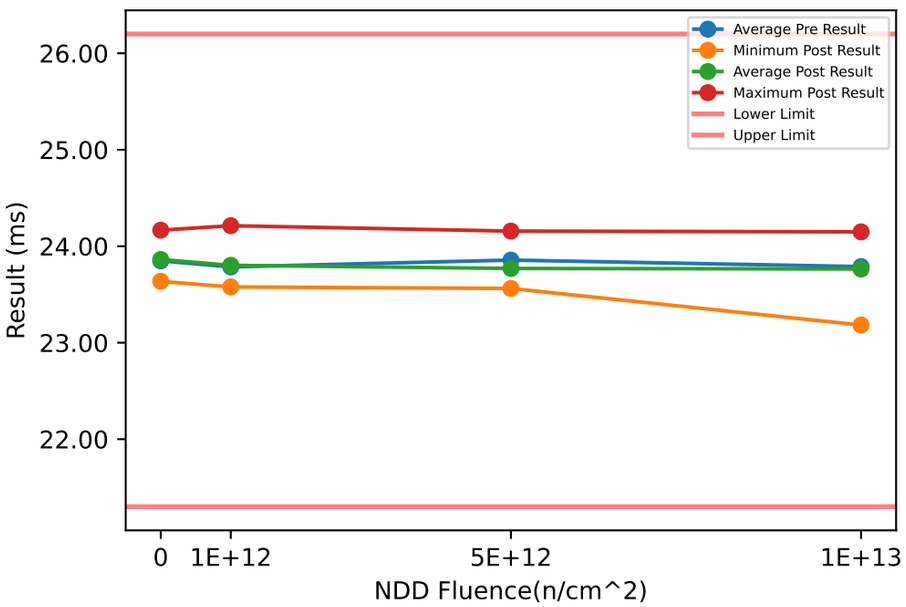
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.525	12.533	0.0073
304	1e+12	NDD Unbiased	12.647	12.634	-0.0131
305	1e+12	NDD Unbiased	12.627	12.595	-0.0327
306	1e+12	NDD Unbiased	12.292	12.332	0.04
307	5e+12	NDD Unbiased	12.559	12.47	-0.0892
308	5e+12	NDD Unbiased	12.523	12.459	-0.0639
309	5e+12	NDD Unbiased	12.476	12.514	0.0376
310	5e+12	NDD Unbiased	12.678	12.696	0.0176
311	1e+13	NDD Unbiased	12.692	12.714	0.0221
312	1e+13	NDD Unbiased	12.595	12.554	-0.0409
313	1e+13	NDD Unbiased	12.605	12.575	-0.0306
314	1e+13	NDD Unbiased	12.207	12.306	0.0995
315	0	Correlation	12.697	12.7	0.0026
316	0	Correlation	12.492	12.488	-0.004
317	0	Correlation	12.53	12.511	-0.0194

Test Statistics (ms)

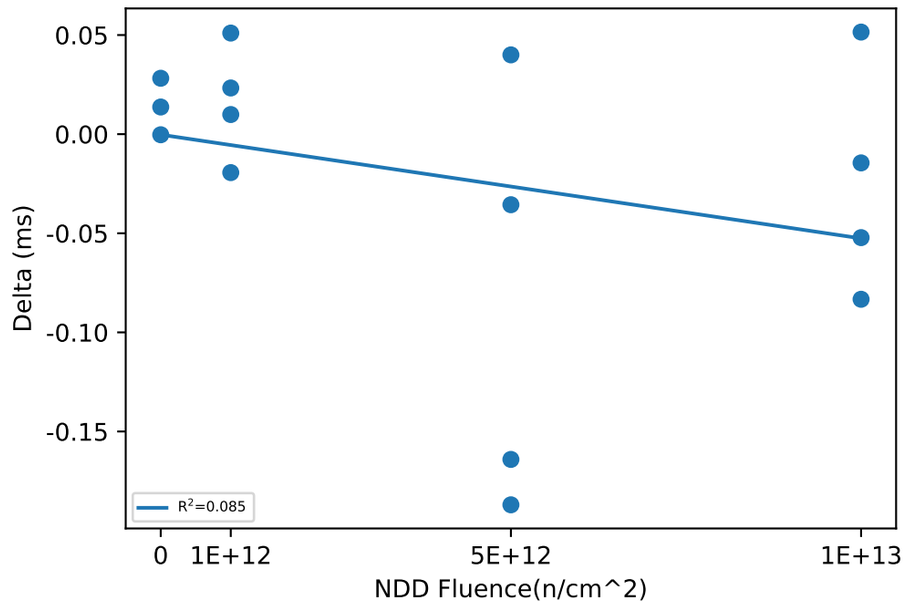
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.492	12.573	12.697	0.10917	12.488	12.566	12.7	0.11631	-0.0194	-0.0069333	0.0026	0.01129
1e+12	12.292	12.523	12.647	0.16272	12.332	12.523	12.634	0.13397	-0.0327	0.000375	0.04	0.031057
5e+12	12.476	12.559	12.678	0.086326	12.459	12.535	12.696	0.10999	-0.0892	-0.024475	0.0376	0.061556
1e+13	12.207	12.525	12.692	0.21656	12.306	12.537	12.714	0.16977	-0.0409	0.012525	0.0995	0.064214

Device Test: 5.87; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

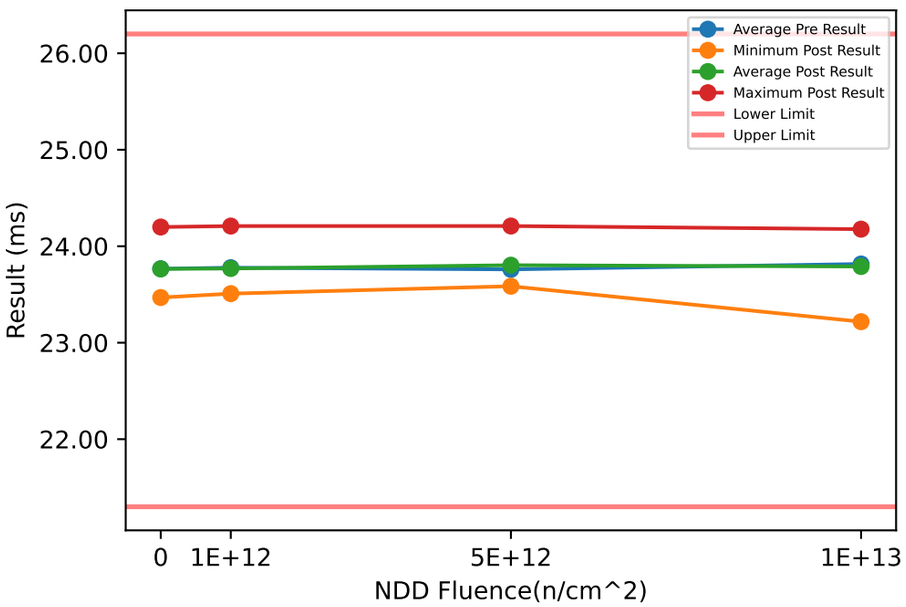
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.568	23.578	0.0099
304	1e+12	NDD Unbiased	24.189	24.213	0.0233
305	1e+12	NDD Unbiased	23.763	23.744	-0.0194
306	1e+12	NDD Unbiased	23.622	23.673	0.051
307	5e+12	NDD Unbiased	23.832	23.645	-0.187
308	5e+12	NDD Unbiased	23.674	23.714	0.04
309	5e+12	NDD Unbiased	23.726	23.562	-0.1641
310	5e+12	NDD Unbiased	24.192	24.157	-0.0356
311	1e+13	NDD Unbiased	24.164	24.149	-0.0145
312	1e+13	NDD Unbiased	23.958	23.875	-0.0833
313	1e+13	NDD Unbiased	23.902	23.85	-0.0522
314	1e+13	NDD Unbiased	23.132	23.183	0.0515
315	0	Correlation	24.153	24.166	0.0137
316	0	Correlation	23.637	23.636	-0.0003
317	0	Correlation	23.756	23.784	0.0282

Test Statistics (ms)

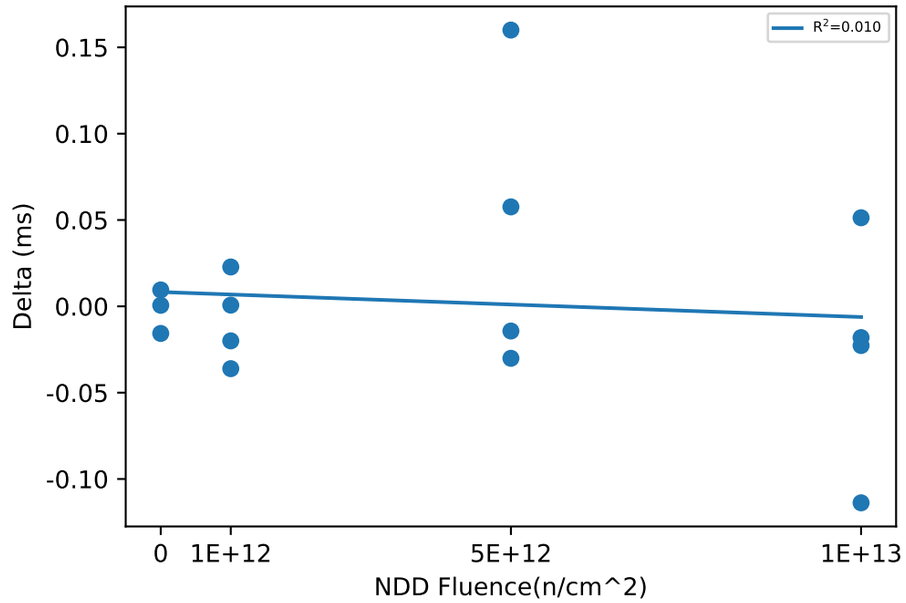
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.637	23.848	24.153	0.27028	23.636	23.862	24.166	0.27364	-0.0003	0.013867	0.0282	0.014251
1e+12	23.568	23.786	24.189	0.2813	23.578	23.802	24.213	0.28205	-0.0194	0.0162	0.051	0.02926
5e+12	23.674	23.856	24.192	0.23348	23.562	23.77	24.157	0.26541	-0.187	-0.086675	0.04	0.10757
1e+13	23.132	23.789	24.164	0.45235	23.183	23.764	24.149	0.41045	-0.0833	-0.024625	0.0515	0.058025

Device Test: 5.88; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

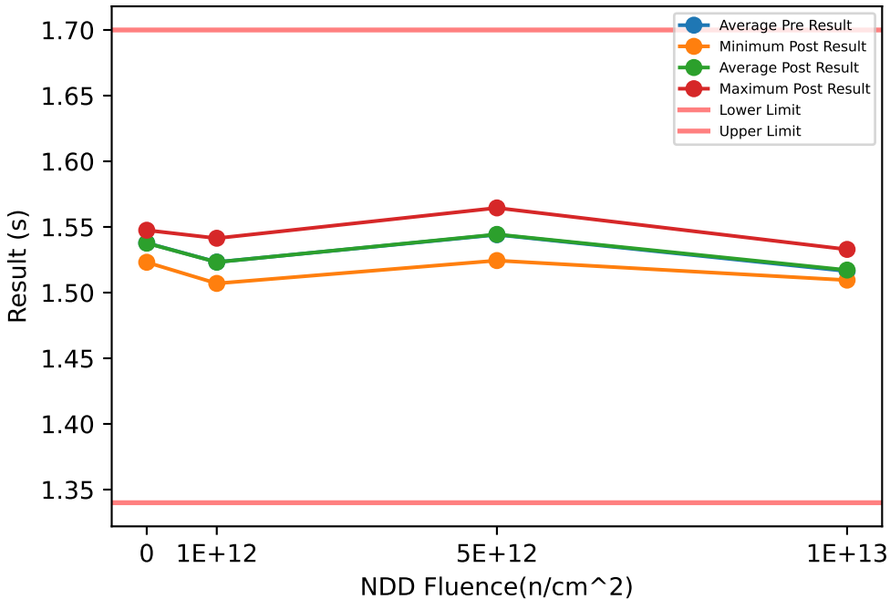
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.584	23.585	0.0007
304	1e+12	NDD Unbiased	24.245	24.209	-0.0361
305	1e+12	NDD Unbiased	23.794	23.774	-0.02
306	1e+12	NDD Unbiased	23.486	23.509	0.0228
307	5e+12	NDD Unbiased	23.705	23.675	-0.0301
308	5e+12	NDD Unbiased	23.528	23.585	0.0576
309	5e+12	NDD Unbiased	23.583	23.743	0.16
310	5e+12	NDD Unbiased	24.224	24.209	-0.0143
311	1e+13	NDD Unbiased	24.195	24.177	-0.0181
312	1e+13	NDD Unbiased	23.989	23.875	-0.1138
313	1e+13	NDD Unbiased	23.913	23.89	-0.0227
314	1e+13	NDD Unbiased	23.167	23.218	0.0513
315	0	Correlation	24.198	24.199	0.0006
316	0	Correlation	23.484	23.468	-0.0157
317	0	Correlation	23.617	23.627	0.0095

Test Statistics (ms)

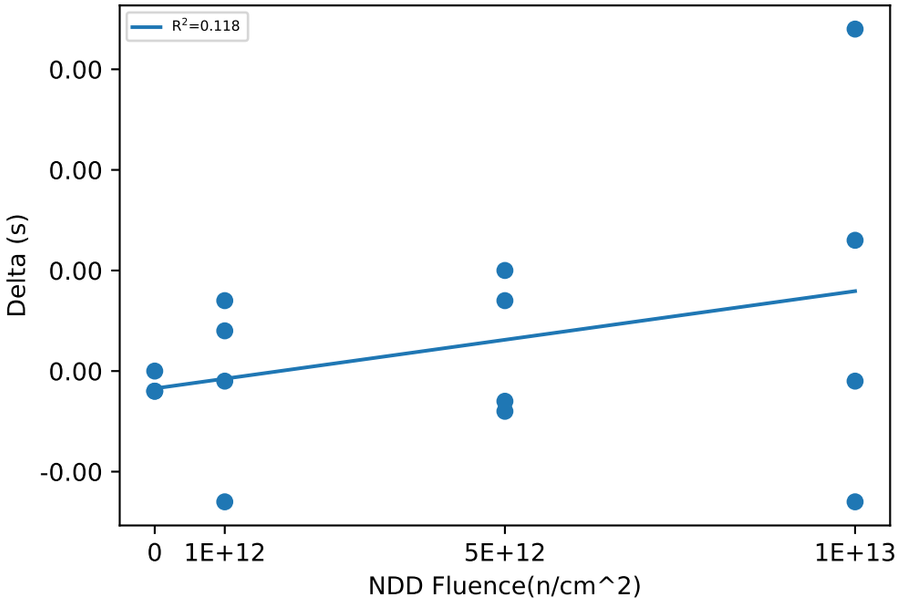
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.484	23.767	24.198	0.37987	23.468	23.765	24.199	0.38437	-0.0157	-0.0018667	0.0095	0.01278
1e+12	23.486	23.777	24.245	0.33727	23.509	23.769	24.209	0.3137	-0.0361	-0.00815	0.0228	0.025546
5e+12	23.528	23.76	24.224	0.31789	23.585	23.803	24.209	0.27836	-0.0301	0.0433	0.16	0.086658
1e+13	23.167	23.816	24.195	0.44889	23.218	23.79	24.177	0.40585	-0.1138	-0.025825	0.0513	0.067718

Device Test: 5.89; WD_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.34, Upper Limit = 1.7 (s))

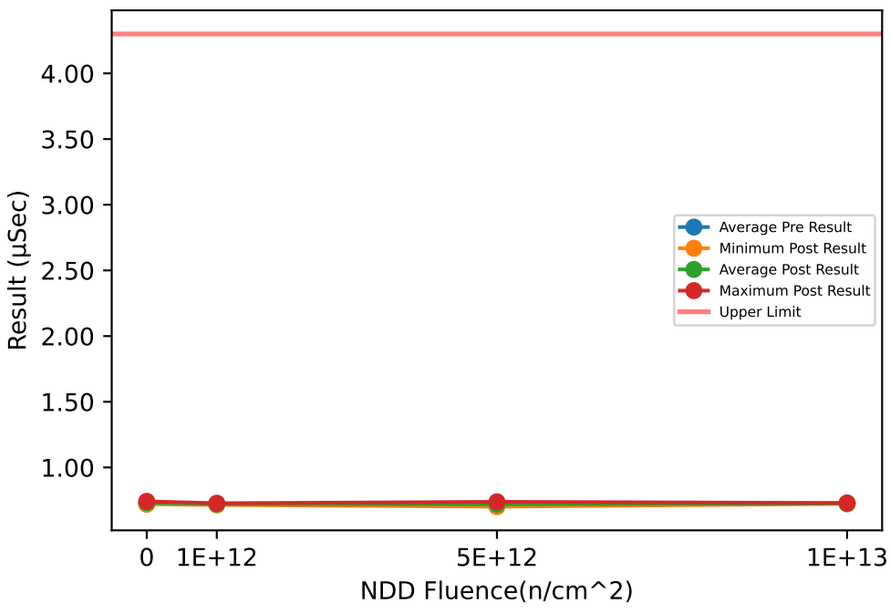
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.5083	1.507	-0.0013
304	1e+12	NDD Unbiased	1.5317	1.5321	0.0004
305	1e+12	NDD Unbiased	1.5407	1.5414	0.0007
306	1e+12	NDD Unbiased	1.5124	1.5123	-0.0001
307	5e+12	NDD Unbiased	1.5649	1.5645	-0.0004
308	5e+12	NDD Unbiased	1.5247	1.5244	-0.0003
309	5e+12	NDD Unbiased	1.5328	1.5335	0.0007
310	5e+12	NDD Unbiased	1.5539	1.5549	0.001
311	1e+13	NDD Unbiased	1.5096	1.5095	-0.0001
312	1e+13	NDD Unbiased	1.5094	1.5128	0.0034
313	1e+13	NDD Unbiased	1.5148	1.5135	-0.0013
314	1e+13	NDD Unbiased	1.5316	1.5329	0.0013
315	0	Correlation	1.5233	1.5231	-0.0002
316	0	Correlation	1.5426	1.5424	-0.0002
317	0	Correlation	1.5475	1.5475	0

Test Statistics (s)

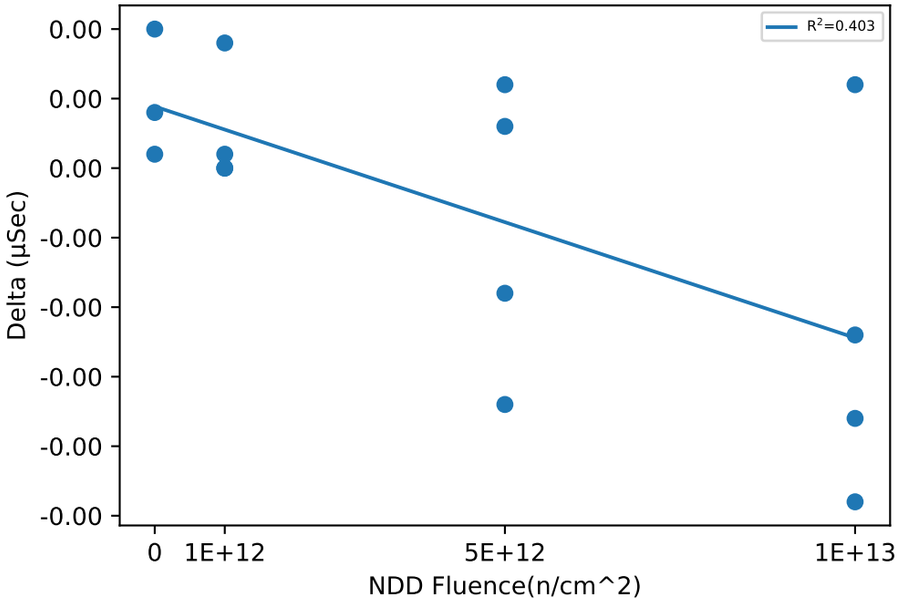
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5233	1.5378	1.5475	0.012794	1.5231	1.5377	1.5475	0.01287	-0.0002	-0.00013333	0	0.00011547
1e+12	1.5083	1.5233	1.5407	0.015461	1.507	1.5232	1.5414	0.016245	-0.0013	-7.5e-05	0.0007	0.00088081
5e+12	1.5247	1.5441	1.5649	0.018554	1.5244	1.5443	1.5645	0.018557	-0.0004	0.00025	0.001	0.00070475
1e+13	1.5094	1.5164	1.5316	0.010469	1.5095	1.5172	1.5329	0.010627	-0.0013	0.000825	0.0034	0.0020189

Device Test: 5.9; PROPD_RESET

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 4.3 (µSec))

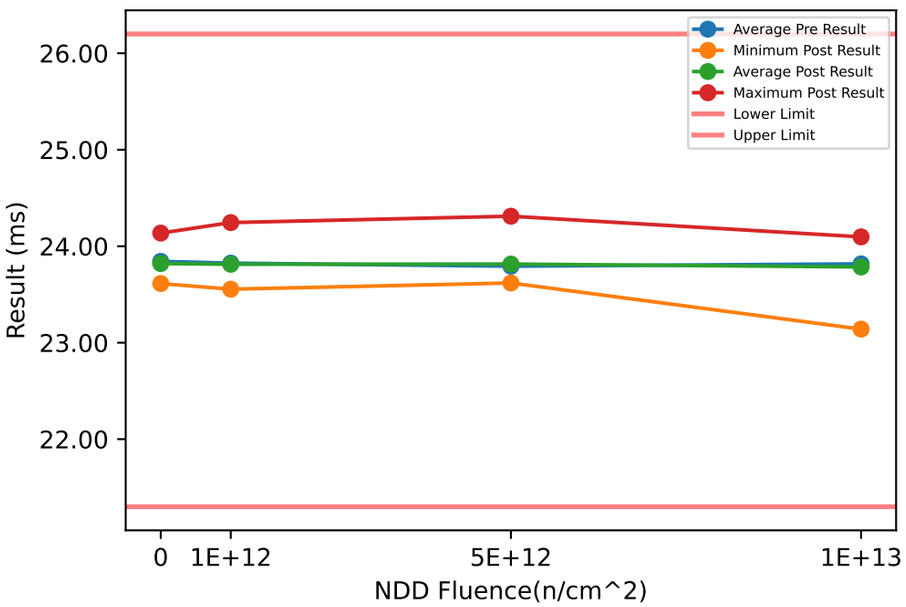
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7268	0.7277	0.0009
304	1e+12	NDD Unbiased	0.7176	0.7176	0
305	1e+12	NDD Unbiased	0.7257	0.7257	0
306	1e+12	NDD Unbiased	0.7144	0.7145	0.0001
307	5e+12	NDD Unbiased	0.7233	0.7224	-0.0009
308	5e+12	NDD Unbiased	0.7381	0.7384	0.0003
309	5e+12	NDD Unbiased	0.7027	0.701	-0.0017
310	5e+12	NDD Unbiased	0.7157	0.7163	0.0006
311	1e+13	NDD Unbiased	0.7266	0.7254	-0.0012
312	1e+13	NDD Unbiased	0.7249	0.7231	-0.0018
313	1e+13	NDD Unbiased	0.732	0.7296	-0.0024
314	1e+13	NDD Unbiased	0.7226	0.7232	0.0006
315	0	Correlation	0.7188	0.7198	0.001
316	0	Correlation	0.7322	0.7326	0.0004
317	0	Correlation	0.742	0.7421	0.0001

Test Statistics (µSec)

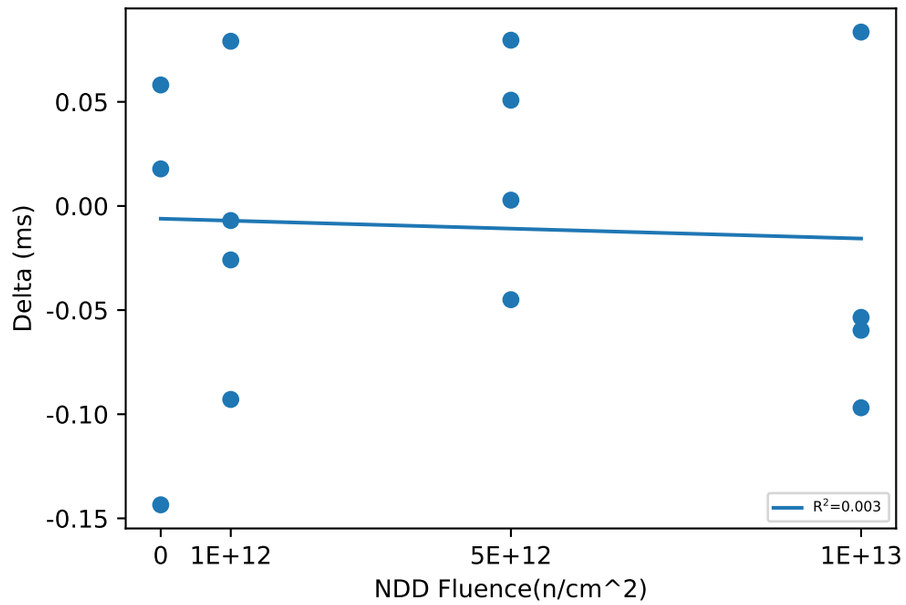
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7188	0.731	0.742	0.011646	0.7198	0.7315	0.7421	0.011191	0.0001	0.0005	0.001	0.00045826
1e+12	0.7144	0.72113	0.7268	0.0060769	0.7145	0.72137	0.7277	0.0063305	0	0.00025	0.0009	0.00043589
5e+12	0.7027	0.71995	0.7381	0.01479	0.701	0.71952	0.7384	0.015472	-0.0017	-0.000425	0.0006	0.0010689
1e+13	0.7226	0.72652	0.732	0.0040011	0.7231	0.72532	0.7296	0.0030412	-0.0024	-0.0012	0.0006	0.0012961

Device Test: 5.90; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

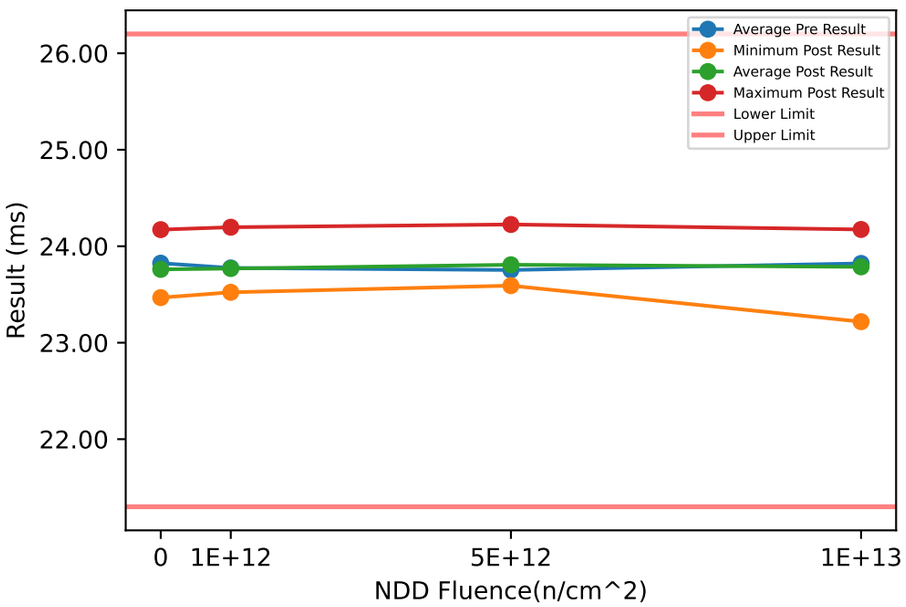
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.63	23.709	0.0791
304	1e+12	NDD Unbiased	24.338	24.245	-0.0929
305	1e+12	NDD Unbiased	23.77	23.744	-0.0259
306	1e+12	NDD Unbiased	23.562	23.555	-0.007
307	5e+12	NDD Unbiased	23.682	23.685	0.0028
308	5e+12	NDD Unbiased	23.691	23.646	-0.045
309	5e+12	NDD Unbiased	23.568	23.619	0.0508
310	5e+12	NDD Unbiased	24.232	24.311	0.0796
311	1e+13	NDD Unbiased	24.157	24.097	-0.0597
312	1e+13	NDD Unbiased	24.055	24.001	-0.0535
313	1e+13	NDD Unbiased	23.999	23.902	-0.0969
314	1e+13	NDD Unbiased	23.057	23.141	0.0835
315	0	Correlation	24.279	24.136	-0.1435
316	0	Correlation	23.555	23.613	0.0581
317	0	Correlation	23.694	23.712	0.0178

Test Statistics (ms)

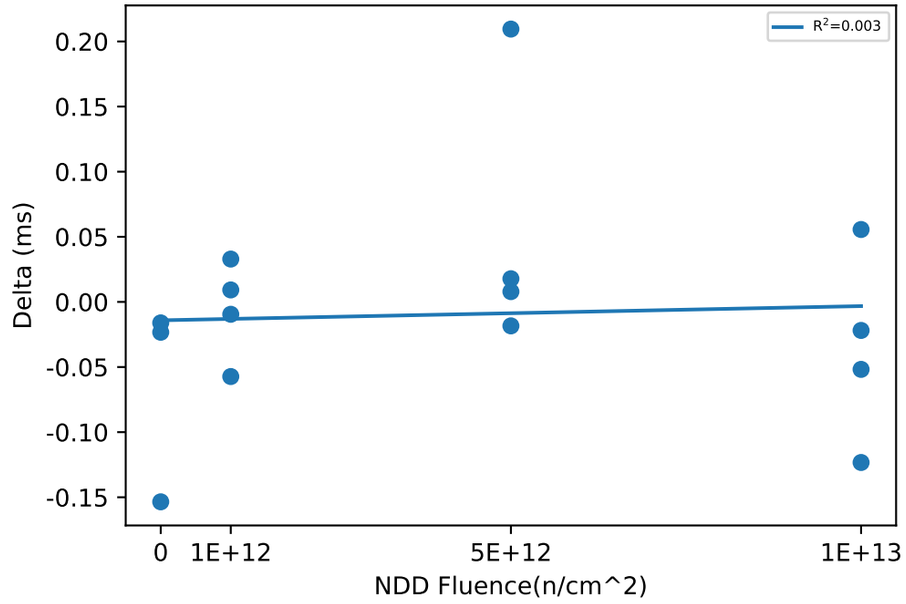
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.555	23.843	24.279	0.38452	23.613	23.82	24.136	0.27784	-0.1435	-0.022533	0.0581	0.10668
1e+12	23.562	23.825	24.338	0.35301	23.555	23.813	24.245	0.29955	-0.0929	-0.011675	0.0791	0.070856
5e+12	23.568	23.793	24.232	0.29761	23.619	23.815	24.311	0.3318	-0.045	0.02205	0.0796	0.054787
1e+13	23.057	23.817	24.157	0.51065	23.141	23.785	24.097	0.43698	-0.0969	-0.03165	0.0835	0.079123

Device Test: 5.91; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

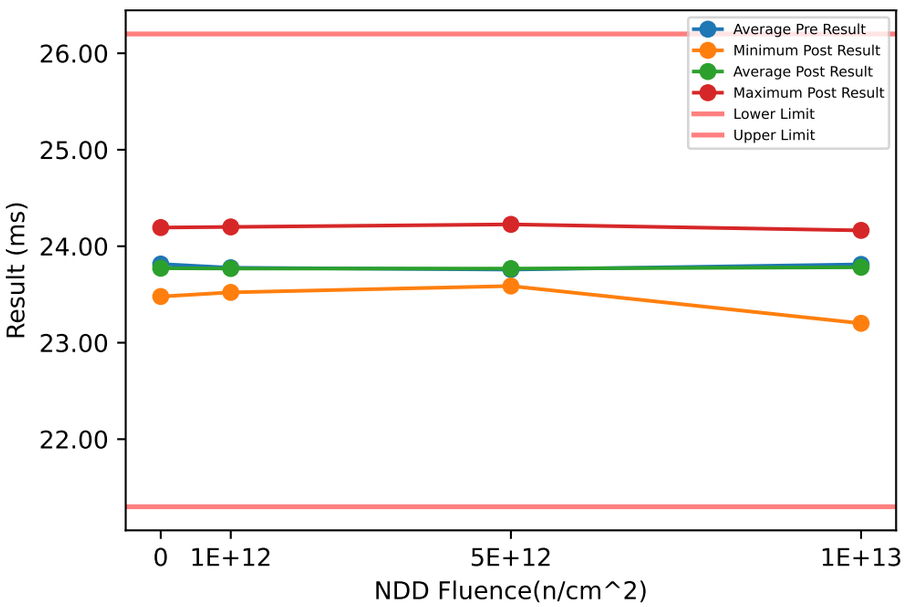
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.574	23.583	0.0092
304	1e+12	NDD Unbiased	24.254	24.197	-0.0573
305	1e+12	NDD Unbiased	23.782	23.773	-0.0095
306	1e+12	NDD Unbiased	23.49	23.523	0.0329
307	5e+12	NDD Unbiased	23.695	23.677	-0.0184
308	5e+12	NDD Unbiased	23.529	23.738	0.2095
309	5e+12	NDD Unbiased	23.583	23.591	0.0079
310	5e+12	NDD Unbiased	24.208	24.225	0.0178
311	1e+13	NDD Unbiased	24.196	24.174	-0.0219
312	1e+13	NDD Unbiased	23.987	23.863	-0.1233
313	1e+13	NDD Unbiased	23.942	23.89	-0.0518
314	1e+13	NDD Unbiased	23.162	23.218	0.0556
315	0	Correlation	24.195	24.172	-0.0233
316	0	Correlation	23.483	23.467	-0.0161
317	0	Correlation	23.794	23.641	-0.1535

Test Statistics (ms)

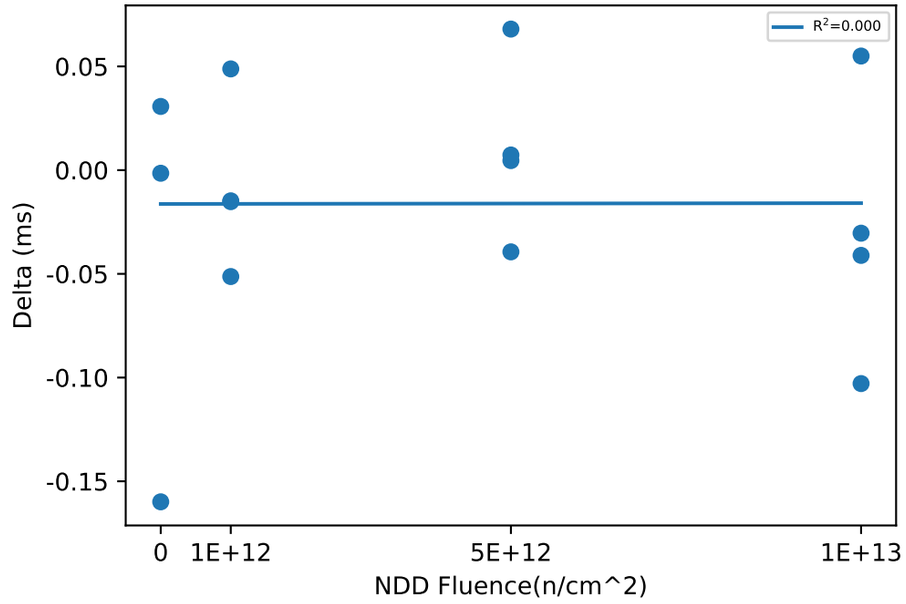
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.483	23.824	24.195	0.35684	23.467	23.76	24.172	0.3671	-0.1535	-0.0643	-0.0161	0.077333
1e+12	23.49	23.775	24.254	0.34237	23.523	23.769	24.197	0.30469	-0.0573	-0.006175	0.0329	0.038245
5e+12	23.529	23.754	24.208	0.31045	23.591	23.808	24.225	0.2848	-0.0184	0.0542	0.2095	0.10465
1e+13	23.162	23.822	24.196	0.45324	23.218	23.786	24.174	0.40409	-0.1233	-0.03535	0.0556	0.074069

Device Test: 5.92; DLY_TMR_1MOHM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



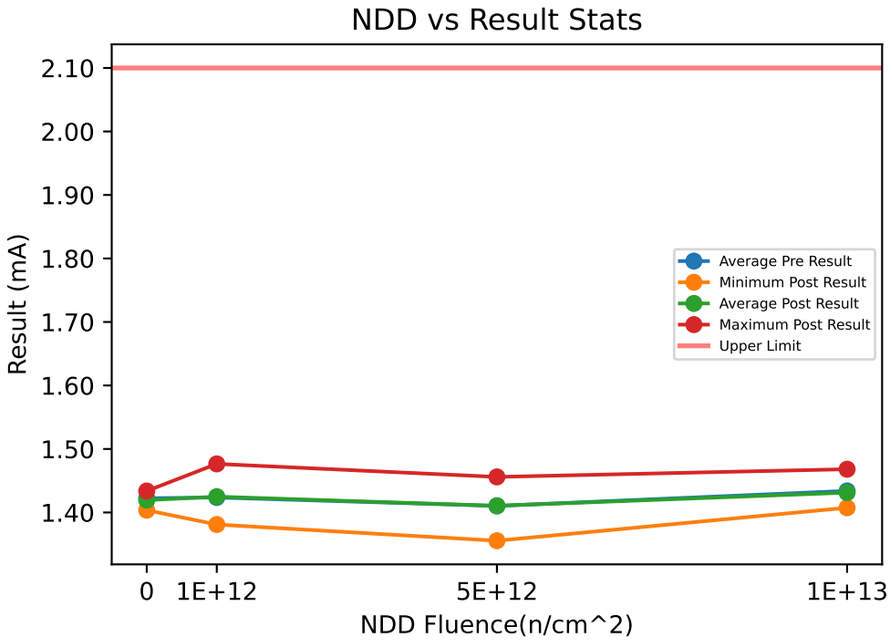
Test Results (Lower Limit = 21.3, Upper Limit = 26.2 (ms))

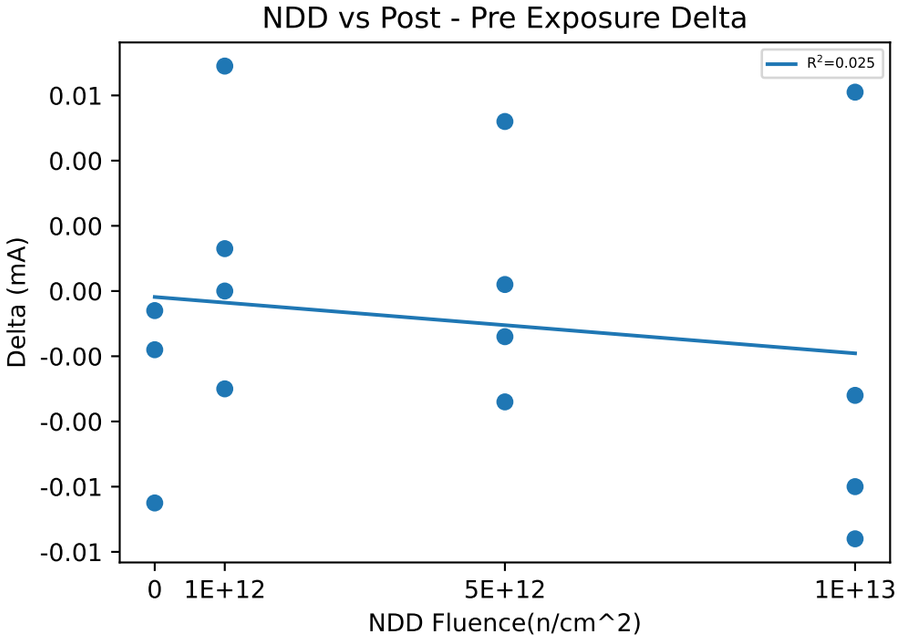
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	23.598	23.583	-0.0148
304	1e+12	NDD Unbiased	24.251	24.2	-0.0513
305	1e+12	NDD Unbiased	23.786	23.77	-0.0152
306	1e+12	NDD Unbiased	23.473	23.521	0.0488
307	5e+12	NDD Unbiased	23.703	23.663	-0.0394
308	5e+12	NDD Unbiased	23.527	23.595	0.068
309	5e+12	NDD Unbiased	23.58	23.587	0.0073
310	5e+12	NDD Unbiased	24.222	24.226	0.0046
311	1e+13	NDD Unbiased	24.195	24.164	-0.0304
312	1e+13	NDD Unbiased	23.987	23.884	-0.1029
313	1e+13	NDD Unbiased	23.919	23.878	-0.0411
314	1e+13	NDD Unbiased	23.146	23.201	0.055
315	0	Correlation	24.195	24.194	-0.0015
316	0	Correlation	23.639	23.479	-0.1599
317	0	Correlation	23.613	23.643	0.0307

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	23.613	23.815	24.195	0.32903	23.479	23.772	24.194	0.37435	-0.1599	-0.043567	0.0307	0.10203
1e+12	23.473	23.777	24.251	0.34134	23.521	23.769	24.2	0.30628	-0.0513	-0.008125	0.0488	0.04163
5e+12	23.527	23.758	24.222	0.3178	23.587	23.768	24.226	0.30741	-0.0394	0.010125	0.068	0.044124
1e+13	23.146	23.812	24.195	0.45884	23.201	23.782	24.164	0.40943	-0.1029	-0.02985	0.055	0.064968

Device Test: 6.1; ISD





Test Results (Upper Limit = 2.1 (mA))

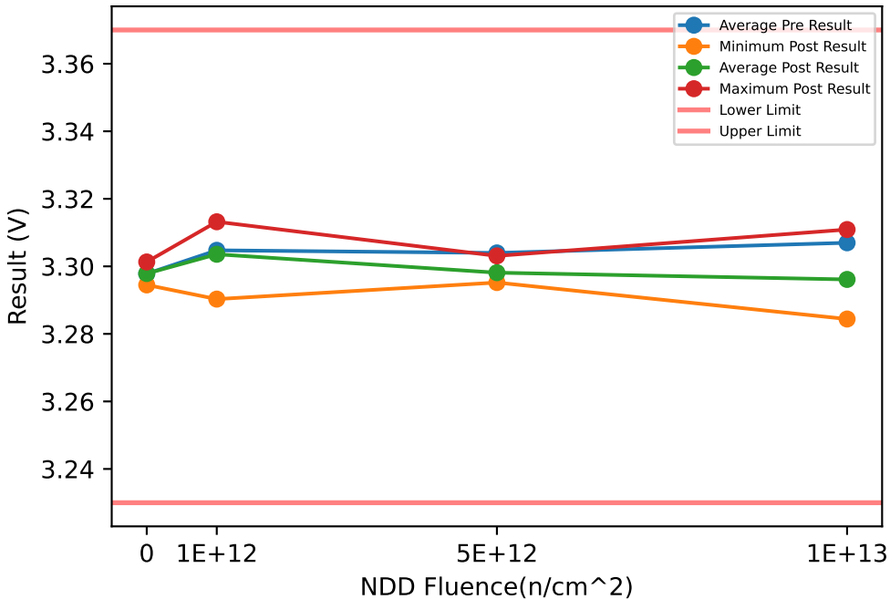
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.4344	1.4314	-0.003
304	1e+12	NDD Unbiased	1.4094	1.4107	0.0013
305	1e+12	NDD Unbiased	1.3741	1.381	0.0069
306	1e+12	NDD Unbiased	1.4765	1.4765	0
307	5e+12	NDD Unbiased	1.4508	1.456	0.0052
308	5e+12	NDD Unbiased	1.3569	1.3555	-0.0014
309	5e+12	NDD Unbiased	1.4212	1.4178	-0.0034
310	5e+12	NDD Unbiased	1.4125	1.4127	0.0002
311	1e+13	NDD Unbiased	1.4306	1.4246	-0.006
312	1e+13	NDD Unbiased	1.4188	1.4249	0.0061
313	1e+13	NDD Unbiased	1.4713	1.4681	-0.0032
314	1e+13	NDD Unbiased	1.415	1.4074	-0.0076
315	0	Correlation	1.4225	1.4207	-0.0018
316	0	Correlation	1.4344	1.4338	-0.0006
317	0	Correlation	1.4101	1.4036	-0.0065

Test Statistics (mA)

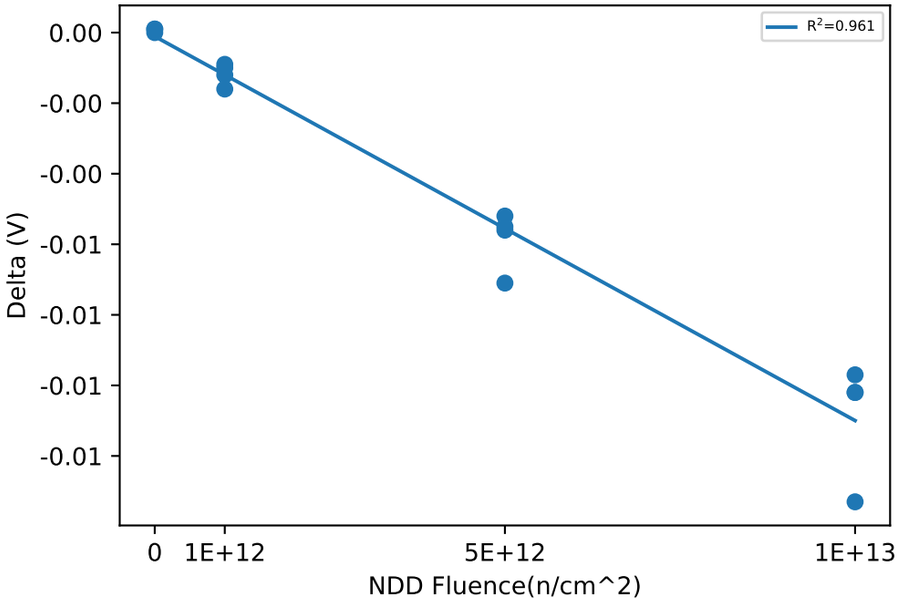
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.4101	1.4223	1.4344	0.012151	1.4036	1.4194	1.4338	0.015144	-0.0065	-0.0029667	-0.0006	0.0031182
1e+12	1.3741	1.4236	1.4765	0.043077	1.381	1.4249	1.4765	0.04014	-0.003	0.0013	0.0069	0.0041449
5e+12	1.3569	1.4103	1.4508	0.039224	1.3555	1.4105	1.456	0.041446	-0.0034	0.00015	0.0052	0.0036747
1e+13	1.415	1.4339	1.4713	0.025787	1.4074	1.4312	1.4681	0.025893	-0.0076	-0.002675	0.0061	0.0061261

Device Test: 6.10; VLDO_REG

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



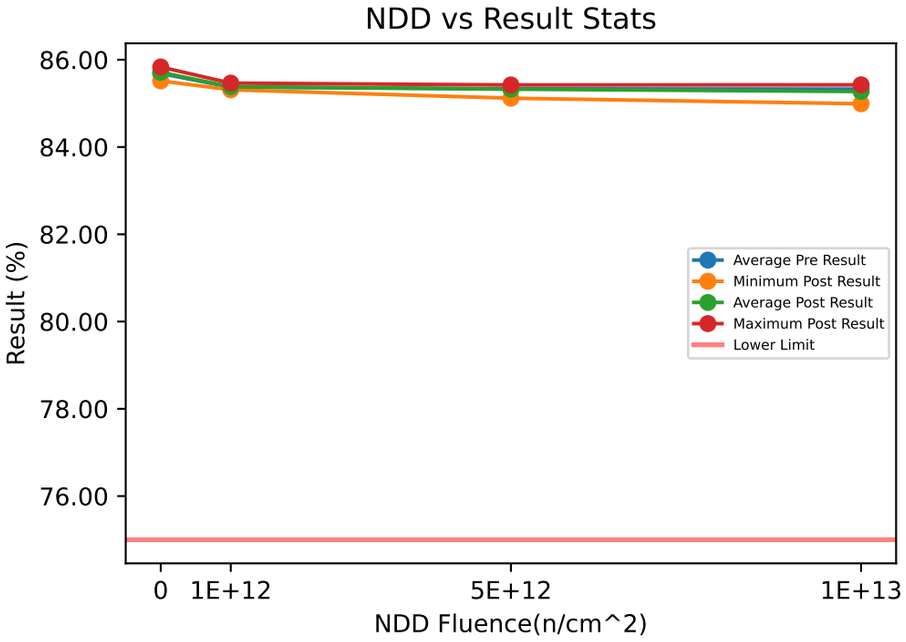
Test Results (Lower Limit = 3.23, Upper Limit = 3.37 (V))

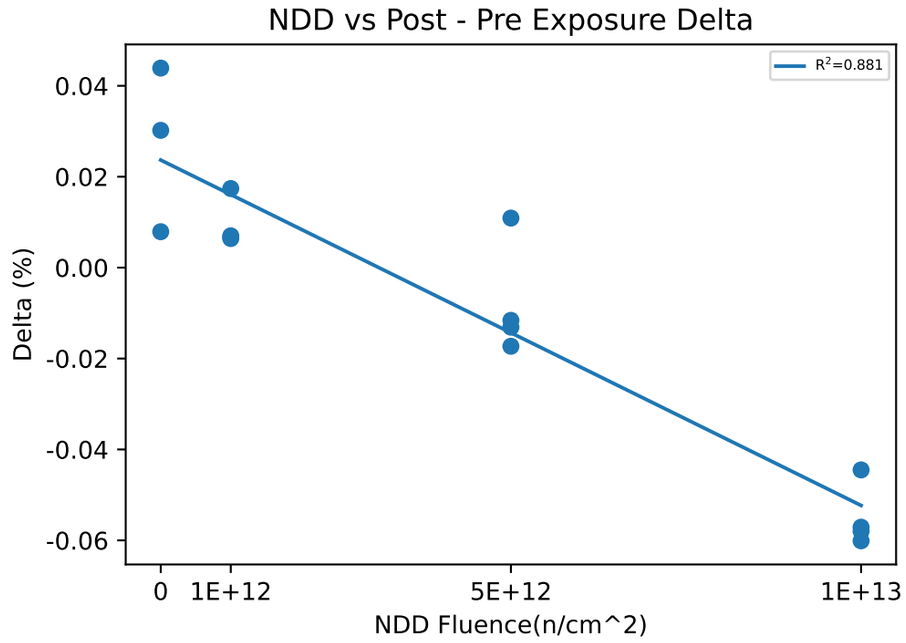
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	3.3081	3.3071	-0.001
304	1e+12	NDD Unbiased	3.3144	3.3132	-0.0012
305	1e+12	NDD Unbiased	3.3053	3.3037	-0.0016
306	1e+12	NDD Unbiased	3.2912	3.2903	-0.0009
307	5e+12	NDD Unbiased	3.3031	3.2975	-0.0056
308	5e+12	NDD Unbiased	3.3007	3.2952	-0.0055
309	5e+12	NDD Unbiased	3.3019	3.2967	-0.0052
310	5e+12	NDD Unbiased	3.3102	3.3031	-0.0071
311	1e+13	NDD Unbiased	3.3211	3.3109	-0.0102
312	1e+13	NDD Unbiased	3.2941	3.2844	-0.0097
313	1e+13	NDD Unbiased	3.298	3.2878	-0.0102
314	1e+13	NDD Unbiased	3.3147	3.3014	-0.0133
315	0	Correlation	3.3013	3.3013	0
316	0	Correlation	3.2944	3.2945	0.0001
317	0	Correlation	3.2977	3.2978	0.0001

Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.2944	3.2978	3.3013	0.0034511	3.2945	3.2979	3.3013	0.0034005	0	6.6667e-05	0.0001	5.7735e-05
1e+12	3.2912	3.3047	3.3144	0.0098022	3.2903	3.3036	3.3132	0.0096834	-0.0016	-0.001175	-0.0009	0.00030957
5e+12	3.3007	3.304	3.3102	0.0042641	3.2952	3.2981	3.3031	0.003451	-0.0071	-0.00585	-0.0052	0.00085049
1e+13	3.2941	3.307	3.3211	0.012981	3.2844	3.2961	3.3109	0.012287	-0.0133	-0.01085	-0.0097	0.0016503

Device Test: 6.100; VOH_WDO_10MA





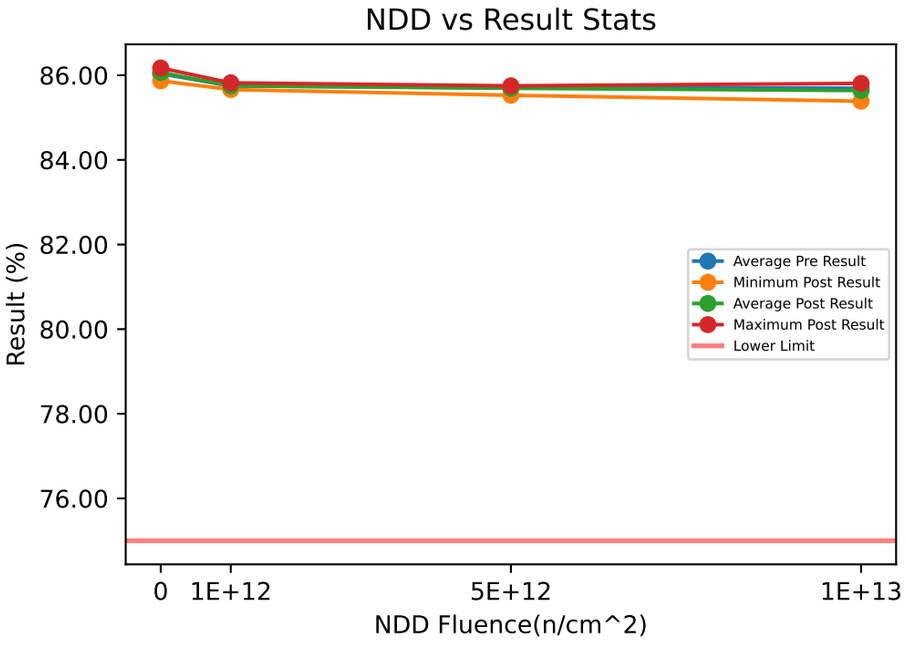
Test Results (Lower Limit = 75.0 (%))

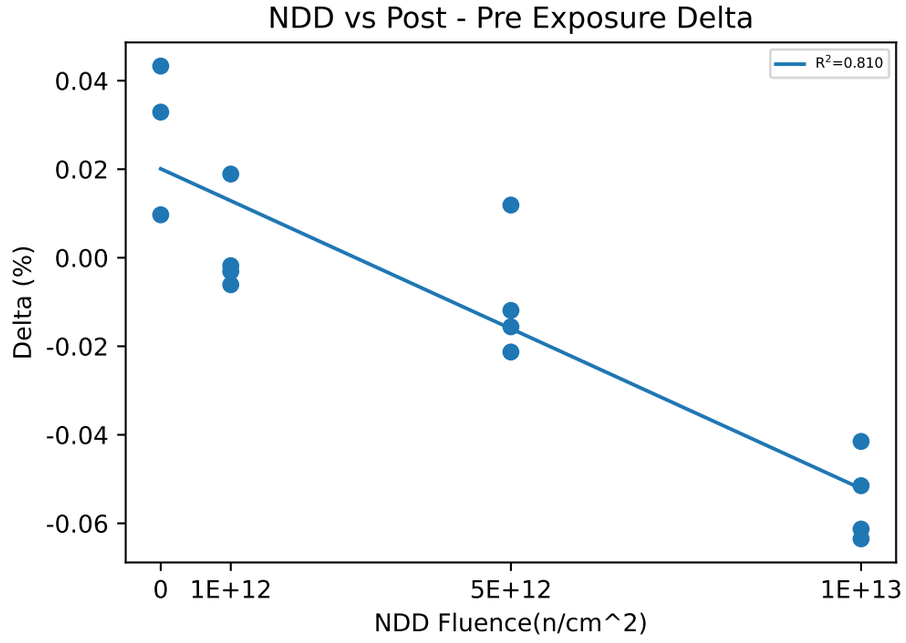
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	85.416	85.423	0.007
304	1e+12	NDD Unbiased	85.294	85.311	0.0174
305	1e+12	NDD Unbiased	85.322	85.328	0.0064
306	1e+12	NDD Unbiased	85.458	85.464	0.0067
307	5e+12	NDD Unbiased	85.382	85.393	0.0109
308	5e+12	NDD Unbiased	85.136	85.119	-0.0173
309	5e+12	NDD Unbiased	85.435	85.422	-0.0131
310	5e+12	NDD Unbiased	85.38	85.368	-0.0116
311	1e+13	NDD Unbiased	85.469	85.425	-0.0445
312	1e+13	NDD Unbiased	85.413	85.353	-0.0601
313	1e+13	NDD Unbiased	85.049	84.992	-0.0571
314	1e+13	NDD Unbiased	85.376	85.318	-0.058
315	0	Correlation	85.745	85.789	0.0439
316	0	Correlation	85.485	85.516	0.0302
317	0	Correlation	85.826	85.834	0.0079

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	85.485	85.686	85.826	0.17813	85.516	85.713	85.834	0.17243	0.0079	0.027333	0.0439	0.01817
1e+12	85.294	85.372	85.458	0.077167	85.311	85.382	85.464	0.073789	0.0064	0.009375	0.0174	0.0053556
5e+12	85.136	85.333	85.435	0.13388	85.119	85.326	85.422	0.1395	-0.0173	-0.007775	0.0109	0.012682
1e+13	85.049	85.327	85.469	0.18928	84.992	85.272	85.425	0.19203	-0.0601	-0.054925	-0.0445	0.0070628

Device Test: 6.101; VOH_PWRGD_10MA





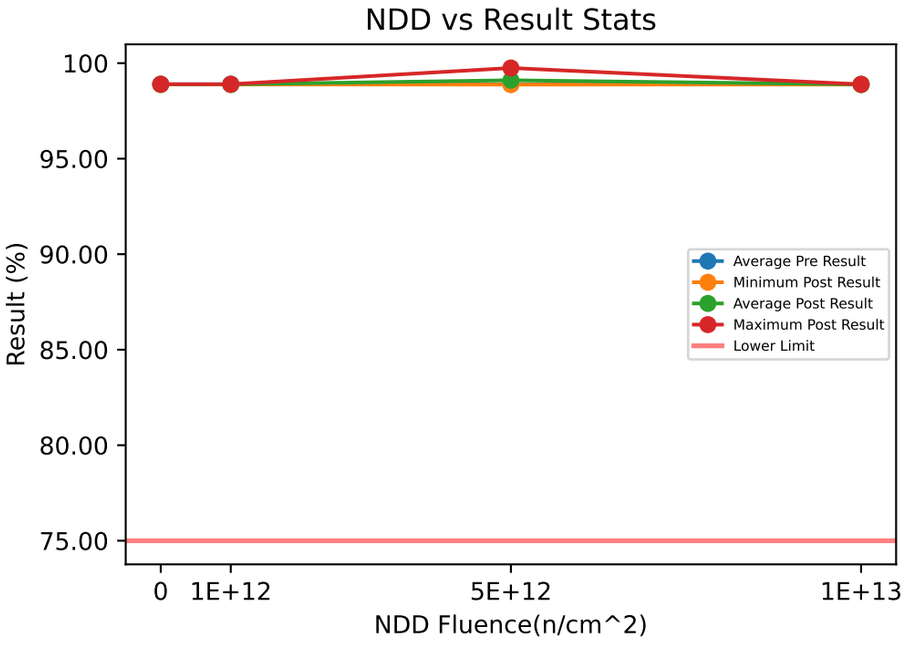
Test Results (Lower Limit = 75.0 (%))

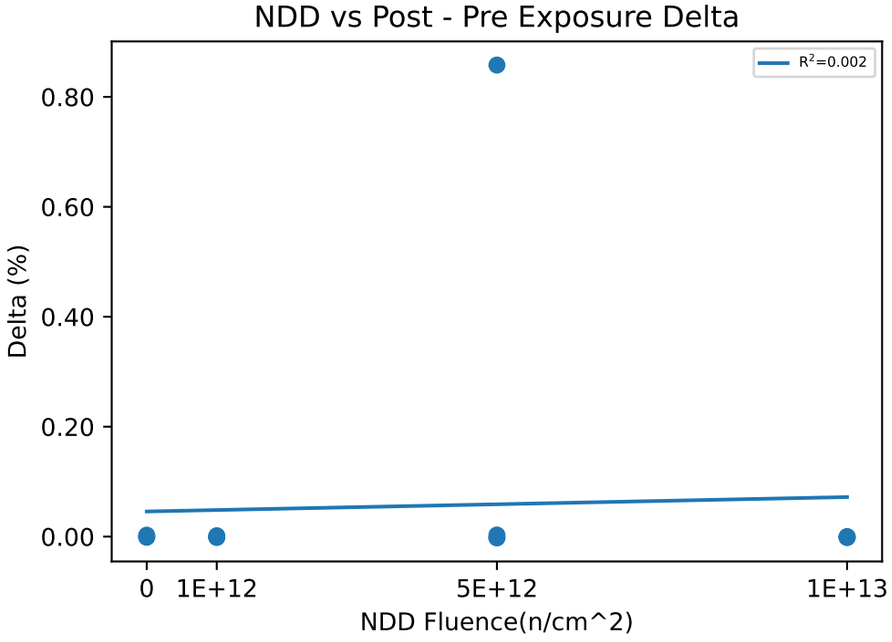
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	85.824	85.821	-0.0031
304	1e+12	NDD Unbiased	85.699	85.718	0.0189
305	1e+12	NDD Unbiased	85.668	85.662	-0.0061
306	1e+12	NDD Unbiased	85.803	85.802	-0.0018
307	5e+12	NDD Unbiased	85.732	85.744	0.0119
308	5e+12	NDD Unbiased	85.548	85.527	-0.0213
309	5e+12	NDD Unbiased	85.765	85.749	-0.0156
310	5e+12	NDD Unbiased	85.762	85.75	-0.0119
311	1e+13	NDD Unbiased	85.849	85.808	-0.0415
312	1e+13	NDD Unbiased	85.773	85.71	-0.0635
313	1e+13	NDD Unbiased	85.448	85.387	-0.0613
314	1e+13	NDD Unbiased	85.704	85.652	-0.0515
315	0	Correlation	86.111	86.154	0.0433
316	0	Correlation	85.835	85.868	0.0329
317	0	Correlation	86.162	86.172	0.0097

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	85.835	86.036	86.162	0.17609	85.868	86.065	86.172	0.17075	0.0097	0.028633	0.0433	0.017202
1e+12	85.668	85.749	85.824	0.076599	85.662	85.751	85.821	0.073985	-0.0061	0.001975	0.0189	0.011426
5e+12	85.548	85.702	85.765	0.1035	85.527	85.693	85.75	0.11052	-0.0213	-0.009225	0.0119	0.014604
1e+13	85.448	85.694	85.849	0.17399	85.387	85.639	85.808	0.17995	-0.0635	-0.05445	-0.0415	0.010087

Device Test: 6.102; VOH_RESET_10MA





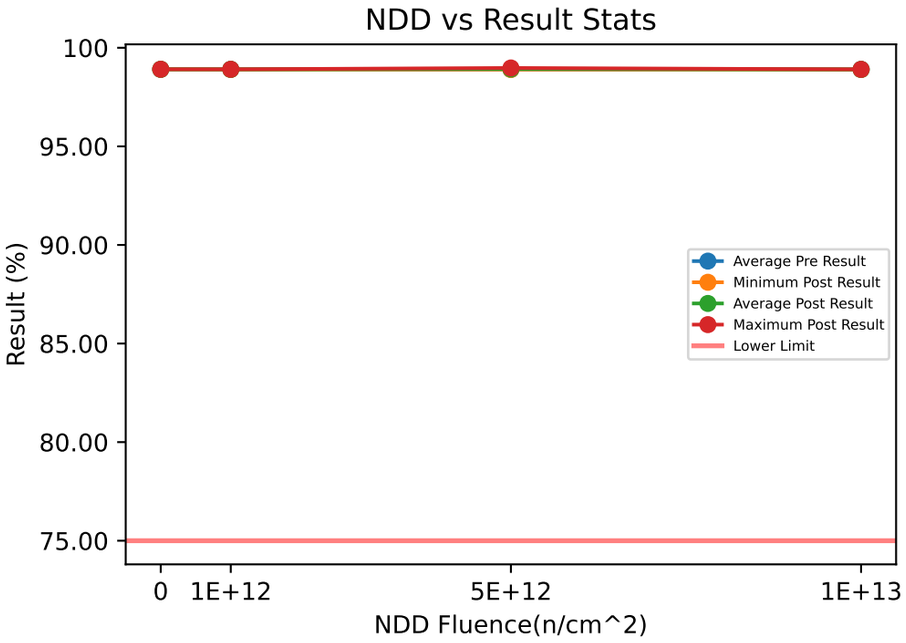
Test Results (Lower Limit = 75.0 (%))

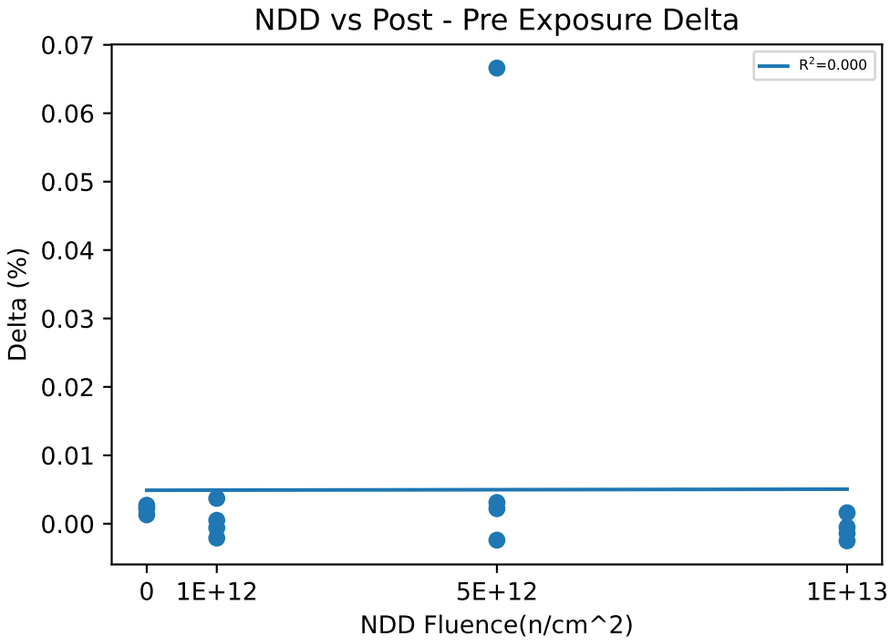
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.896	98.898	0.0016
304	1e+12	NDD Unbiased	98.89	98.89	0.0002
305	1e+12	NDD Unbiased	98.886	98.886	-0.0008
306	1e+12	NDD Unbiased	98.892	98.89	-0.0016
307	5e+12	NDD Unbiased	98.892	98.895	0.0029
308	5e+12	NDD Unbiased	98.882	98.879	-0.0022
309	5e+12	NDD Unbiased	98.901	98.899	-0.0019
310	5e+12	NDD Unbiased	98.89	99.748	0.8579
311	1e+13	NDD Unbiased	98.884	98.883	-0.0007
312	1e+13	NDD Unbiased	98.894	98.893	-0.0015
313	1e+13	NDD Unbiased	98.883	98.883	0.0001
314	1e+13	NDD Unbiased	98.891	98.889	-0.0015
315	0	Correlation	98.895	98.898	0.0026
316	0	Correlation	98.886	98.886	-0.0002
317	0	Correlation	98.896	98.895	-0.0012

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.886	98.892	98.896	0.0052367	98.886	98.893	98.898	0.0059501	-0.0012	0.0004	0.0026	0.0019698
1e+12	98.886	98.891	98.896	0.004115	98.886	98.891	98.898	0.005079	-0.0016	-0.00015	0.0016	0.0013796
5e+12	98.882	98.891	98.901	0.0078916	98.879	99.105	99.748	0.4286	-0.0022	0.21417	0.8579	0.42916
1e+13	98.883	98.888	98.894	0.0055624	98.883	98.887	98.893	0.0048997	-0.0015	-0.0009	0.0001	0.00076594

Device Test: 6.103; VOH_RESET_10MA





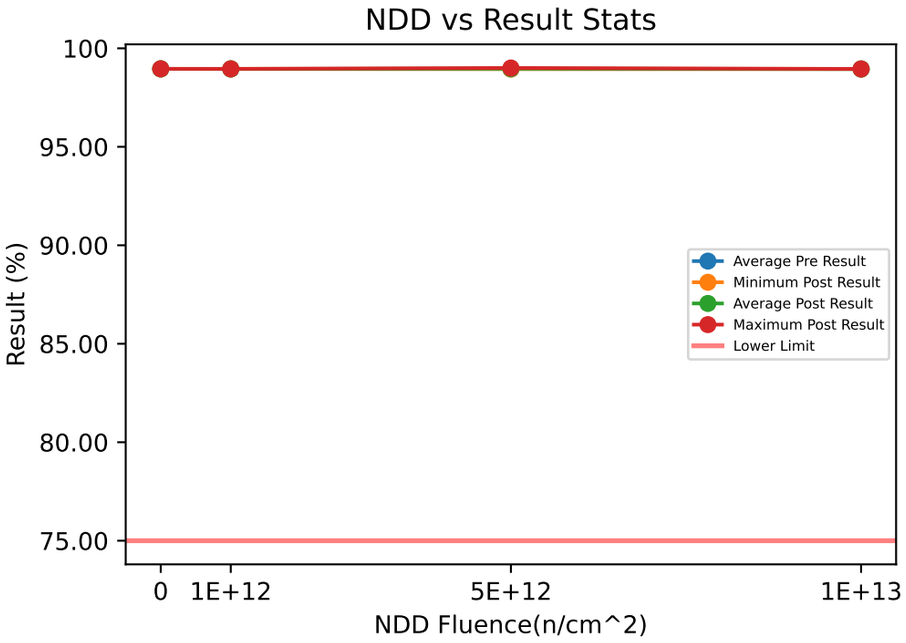
Test Results (Lower Limit = 75.0 (%))

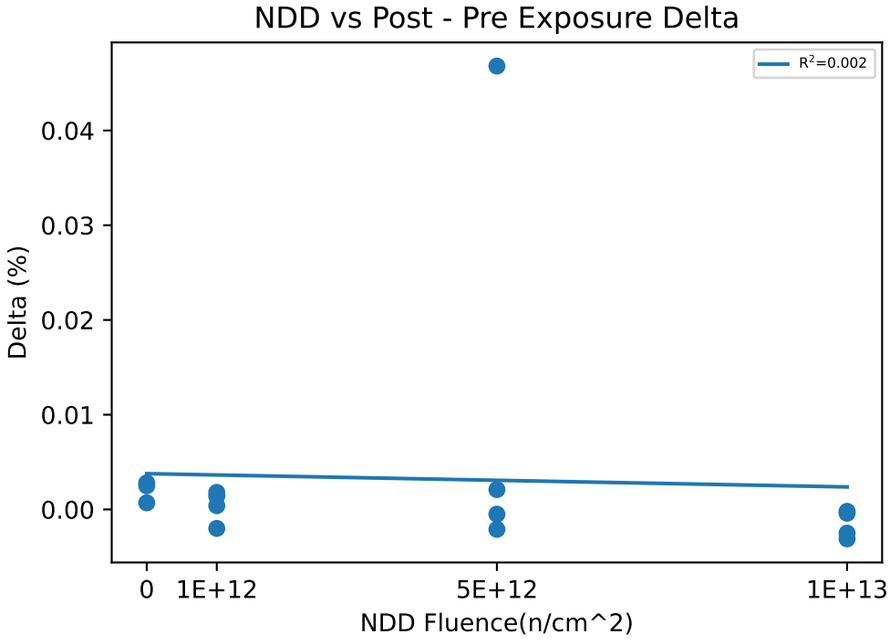
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.908	98.908	0.0005
304	1e+12	NDD Unbiased	98.904	98.907	0.0037
305	1e+12	NDD Unbiased	98.9	98.899	-0.0006
306	1e+12	NDD Unbiased	98.91	98.908	-0.0021
307	5e+12	NDD Unbiased	98.905	98.908	0.0031
308	5e+12	NDD Unbiased	98.898	98.896	-0.0024
309	5e+12	NDD Unbiased	98.912	98.914	0.0022
310	5e+12	NDD Unbiased	98.909	98.975	0.0666
311	1e+13	NDD Unbiased	98.9	98.902	0.0016
312	1e+13	NDD Unbiased	98.908	98.906	-0.0025
313	1e+13	NDD Unbiased	98.899	98.897	-0.0014
314	1e+13	NDD Unbiased	98.904	98.903	-0.0005
315	0	Correlation	98.908	98.911	0.0027
316	0	Correlation	98.904	98.906	0.0022
317	0	Correlation	98.907	98.908	0.0013

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.904	98.906	98.908	0.0020817	98.906	98.908	98.911	0.0022517	0.0013	0.0020667	0.0027	0.00070946
1e+12	98.9	98.905	98.91	0.0047145	98.899	98.906	98.908	0.0044709	-0.0021	0.000375	0.0037	0.0024595
5e+12	98.898	98.906	98.912	0.0058174	98.896	98.923	98.975	0.035487	-0.0024	0.017375	0.0666	0.032905
1e+13	98.899	98.903	98.908	0.00432	98.897	98.902	98.906	0.0035575	-0.0025	-0.0007	0.0016	0.0017378

Device Test: 6.104; VOH_RESET_10MA





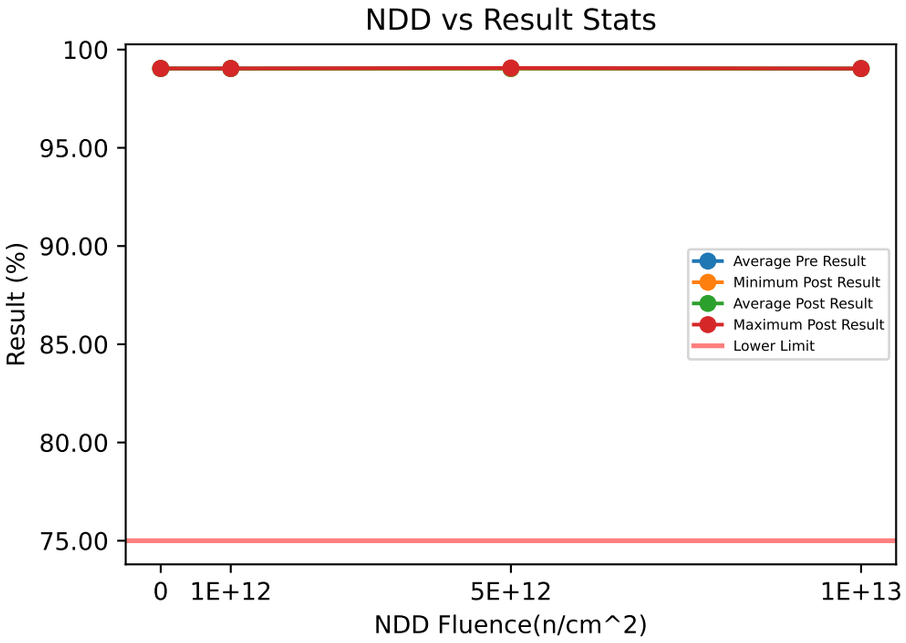
Test Results (Lower Limit = 75.0 (%))

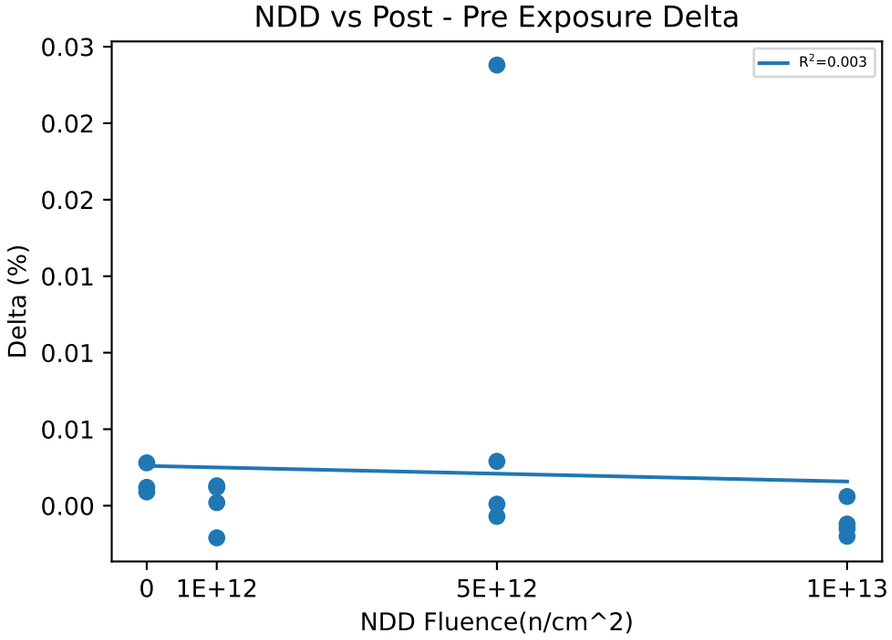
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.957	98.958	0.0014
304	1e+12	NDD Unbiased	98.951	98.953	0.0018
305	1e+12	NDD Unbiased	98.95	98.95	0.0004
306	1e+12	NDD Unbiased	98.956	98.954	-0.002
307	5e+12	NDD Unbiased	98.956	98.958	0.0021
308	5e+12	NDD Unbiased	98.947	98.945	-0.0021
309	5e+12	NDD Unbiased	98.961	98.96	-0.0005
310	5e+12	NDD Unbiased	98.955	99.002	0.0468
311	1e+13	NDD Unbiased	98.948	98.948	-0.0002
312	1e+13	NDD Unbiased	98.956	98.954	-0.0025
313	1e+13	NDD Unbiased	98.947	98.947	-0.0004
314	1e+13	NDD Unbiased	98.952	98.949	-0.0031
315	0	Correlation	98.957	98.96	0.0028
316	0	Correlation	98.952	98.955	0.0025
317	0	Correlation	98.957	98.958	0.0007

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.952	98.955	98.957	0.0028618	98.955	98.957	98.96	0.0025865	0.0007	0.002	0.0028	0.0011358
1e+12	98.95	98.954	98.957	0.0034103	98.95	98.954	98.958	0.0032234	-0.002	0.0004	0.0018	0.0017049
5e+12	98.947	98.955	98.961	0.0059119	98.945	98.966	99.002	0.024901	-0.0021	0.011575	0.0468	0.023547
1e+13	98.947	98.951	98.956	0.0042303	98.947	98.949	98.954	0.0031031	-0.0031	-0.00155	-0.0002	0.0014663

Device Test: 6.105; VOH_RESET_10MA





Test Results (Lower Limit = 75.0 (%))

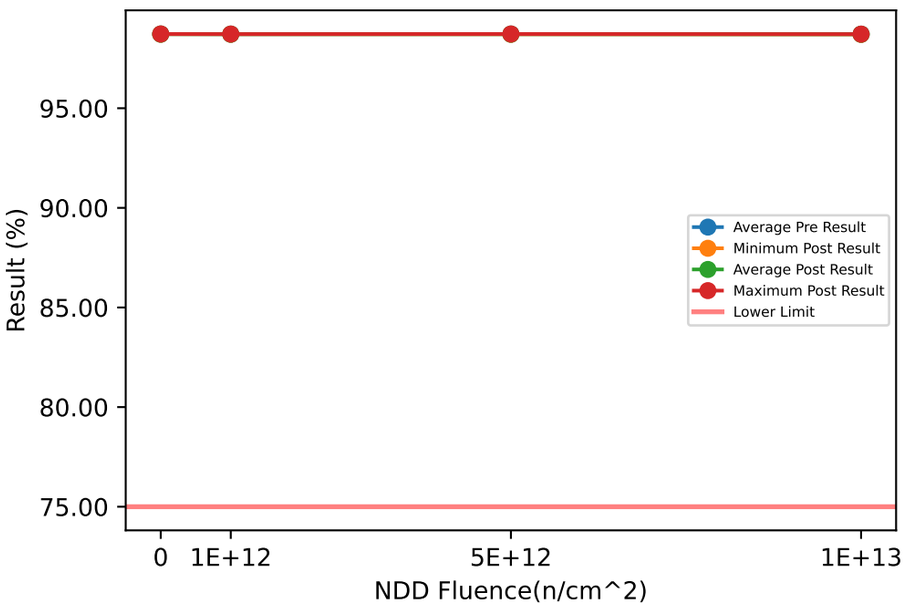
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.039	99.04	0.0013
304	1e+12	NDD Unbiased	99.035	99.036	0.0012
305	1e+12	NDD Unbiased	99.028	99.029	0.0002
306	1e+12	NDD Unbiased	99.035	99.032	-0.0021
307	5e+12	NDD Unbiased	99.035	99.038	0.0029
308	5e+12	NDD Unbiased	99.028	99.027	-0.0007
309	5e+12	NDD Unbiased	99.041	99.041	0.0001
310	5e+12	NDD Unbiased	99.035	99.064	0.0288
311	1e+13	NDD Unbiased	99.033	99.034	0.0006
312	1e+13	NDD Unbiased	99.033	99.031	-0.002
313	1e+13	NDD Unbiased	99.032	99.031	-0.0012
314	1e+13	NDD Unbiased	99.033	99.031	-0.0015
315	0	Correlation	99.039	99.041	0.0028
316	0	Correlation	99.034	99.035	0.0012
317	0	Correlation	99.036	99.037	0.0009

Test Statistics (%)

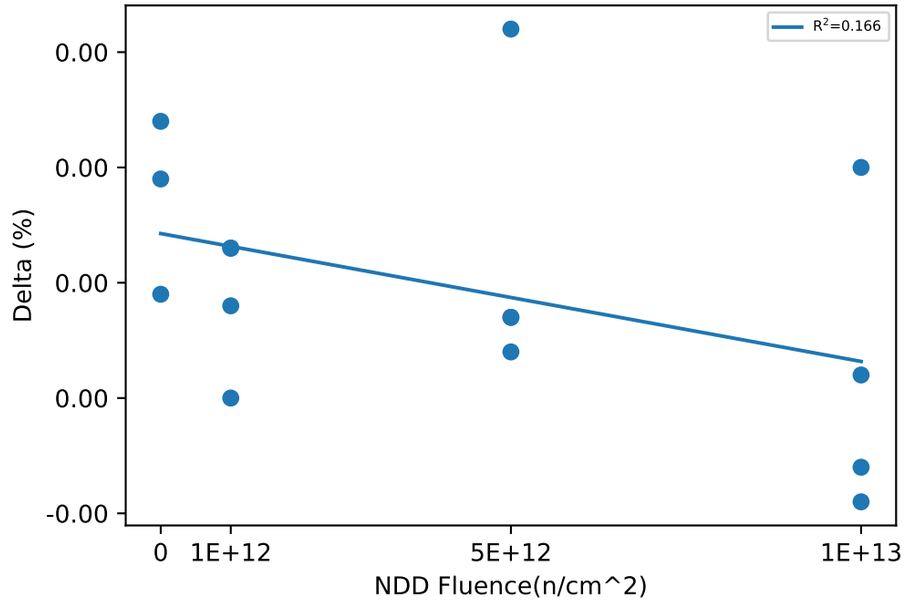
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.034	99.036	99.039	0.0025	99.035	99.038	99.041	0.0033606	0.0009	0.0016333	0.0028	0.0010214
1e+12	99.028	99.034	99.039	0.004327	99.029	99.034	99.04	0.0049598	-0.0021	0.00015	0.0013	0.0015801
5e+12	99.028	99.035	99.041	0.0053507	99.027	99.043	99.064	0.015353	-0.0007	0.007775	0.0288	0.014101
1e+13	99.032	99.033	99.033	0.00045	99.031	99.032	99.034	0.0012728	-0.002	-0.001025	0.0006	0.0011325

Device Test: 6.106; VOH_WDO_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



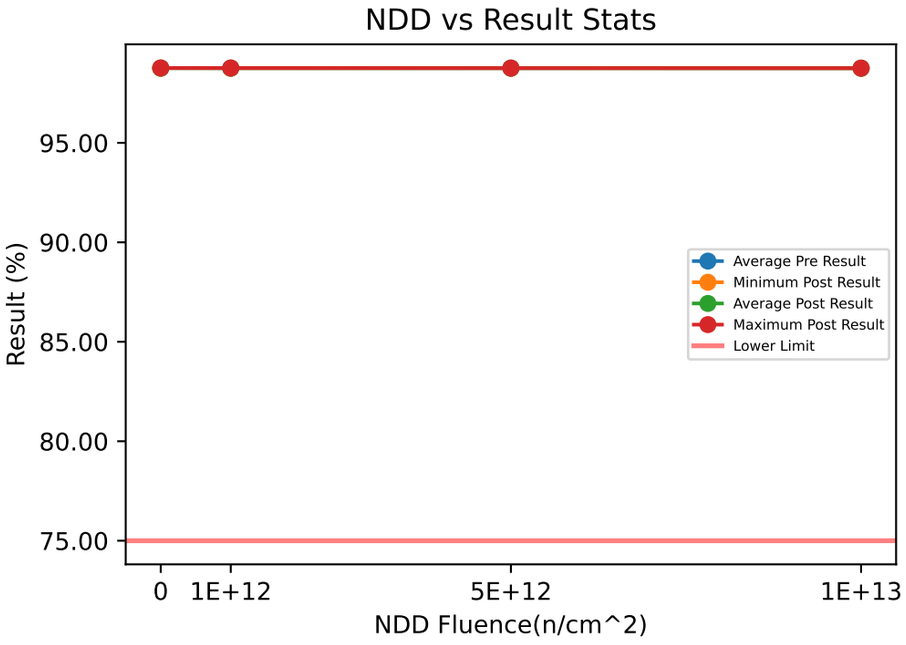
Test Results (Lower Limit = 75.0 (%))

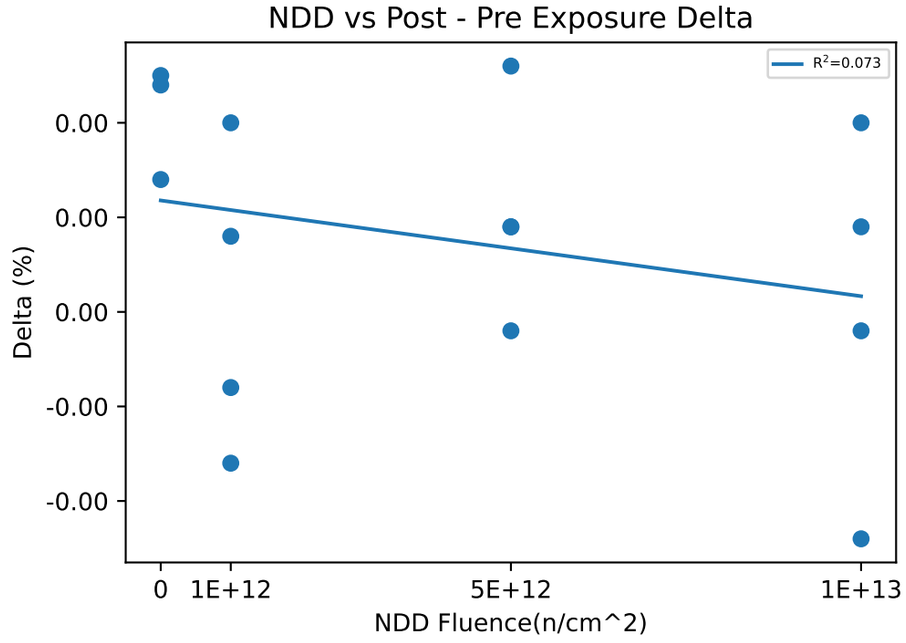
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.721	98.722	0.0008
304	1e+12	NDD Unbiased	98.718	98.719	0.0013
305	1e+12	NDD Unbiased	98.716	98.717	0.0013
306	1e+12	NDD Unbiased	98.716	98.716	0
307	5e+12	NDD Unbiased	98.719	98.722	0.0032
308	5e+12	NDD Unbiased	98.712	98.712	0.0004
309	5e+12	NDD Unbiased	98.725	98.726	0.0007
310	5e+12	NDD Unbiased	98.72	98.721	0.0007
311	1e+13	NDD Unbiased	98.717	98.719	0.002
312	1e+13	NDD Unbiased	98.719	98.718	-0.0009
313	1e+13	NDD Unbiased	98.707	98.707	0.0002
314	1e+13	NDD Unbiased	98.719	98.719	-0.0006
315	0	Correlation	98.724	98.727	0.0024
316	0	Correlation	98.716	98.718	0.0019
317	0	Correlation	98.72	98.721	0.0009

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.716	98.72	98.724	0.0044034	98.718	98.722	98.727	0.0047353	0.0009	0.0017333	0.0024	0.00076376
1e+12	98.716	98.718	98.721	0.0025786	98.716	98.718	98.722	0.00275	0	0.00085	0.0013	0.00061373
5e+12	98.712	98.719	98.725	0.0056598	98.712	98.72	98.726	0.0058768	0.0004	0.00125	0.0032	0.0013077
1e+13	98.707	98.716	98.719	0.0057651	98.707	98.716	98.719	0.0056786	-0.0009	0.000175	0.002	0.0013022

Device Test: 6.107; VOH_PWRGD_10MA





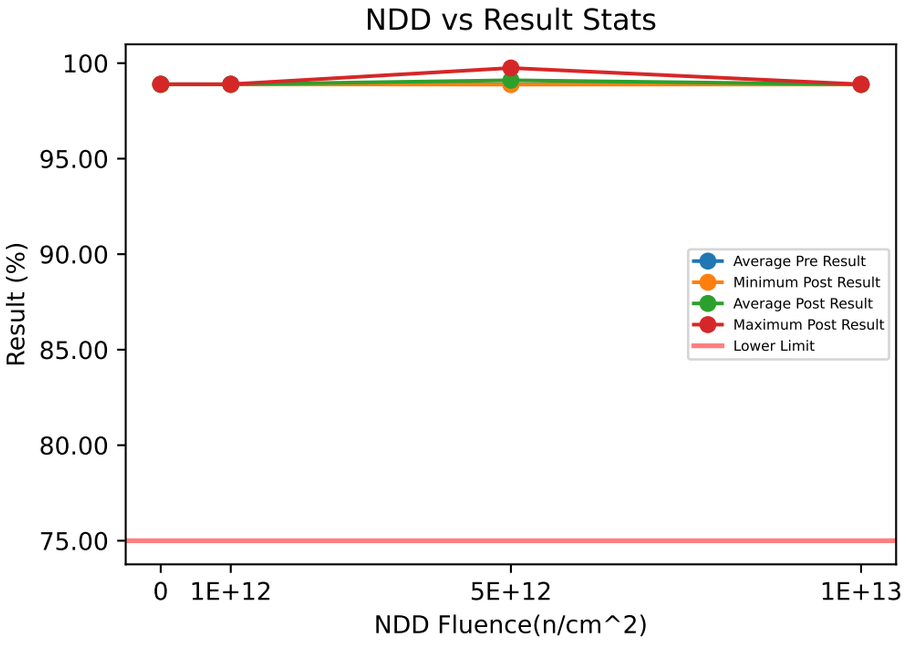
Test Results (Lower Limit = 75.0 (%))

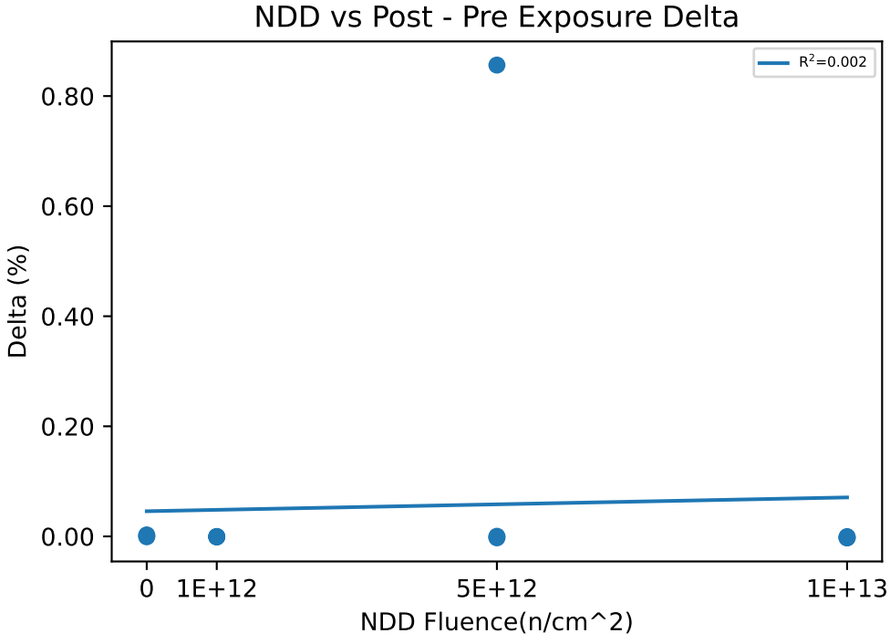
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.764	98.763	-0.0008
304	1e+12	NDD Unbiased	98.757	98.759	0.002
305	1e+12	NDD Unbiased	98.754	98.753	-0.0016
306	1e+12	NDD Unbiased	98.753	98.754	0.0008
307	5e+12	NDD Unbiased	98.754	98.756	0.0026
308	5e+12	NDD Unbiased	98.753	98.754	0.0009
309	5e+12	NDD Unbiased	98.76	98.76	-0.0002
310	5e+12	NDD Unbiased	98.757	98.758	0.0009
311	1e+13	NDD Unbiased	98.754	98.756	0.002
312	1e+13	NDD Unbiased	98.76	98.757	-0.0024
313	1e+13	NDD Unbiased	98.748	98.749	0.0009
314	1e+13	NDD Unbiased	98.756	98.755	-0.0002
315	0	Correlation	98.762	98.764	0.0024
316	0	Correlation	98.753	98.756	0.0025
317	0	Correlation	98.756	98.757	0.0014

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.753	98.757	98.762	0.0044959	98.756	98.759	98.764	0.0046112	0.0014	0.0021	0.0025	0.00060828
1e+12	98.753	98.757	98.764	0.004889	98.753	98.757	98.763	0.0048486	-0.0016	0.0001	0.002	0.0016125
5e+12	98.753	98.756	98.76	0.0033738	98.754	98.757	98.76	0.0026575	-0.0002	0.00105	0.0026	0.0011561
1e+13	98.748	98.754	98.76	0.0046793	98.749	98.755	98.757	0.0035562	-0.0024	7.5e-05	0.002	0.0018786

Device Test: 6.108; VOH_RESET_10MA





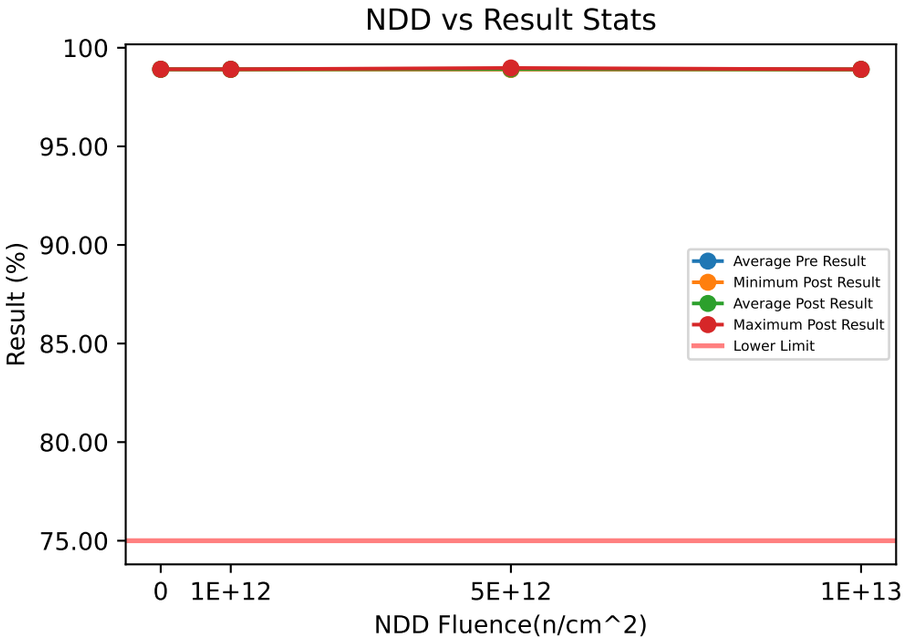
Test Results (Lower Limit = 75.0 (%))

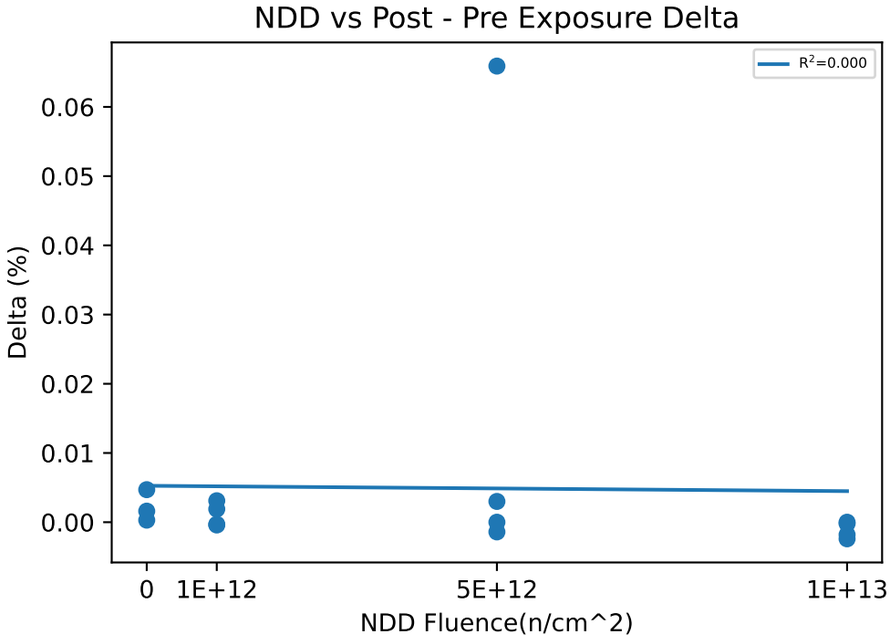
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.897	98.896	-0.0006
304	1e+12	NDD Unbiased	98.89	98.89	-0.0002
305	1e+12	NDD Unbiased	98.886	98.885	-0.0011
306	1e+12	NDD Unbiased	98.892	98.891	-0.0005
307	5e+12	NDD Unbiased	98.894	98.894	0.0002
308	5e+12	NDD Unbiased	98.881	98.879	-0.0026
309	5e+12	NDD Unbiased	98.9	98.899	-0.0011
310	5e+12	NDD Unbiased	98.891	99.748	0.8563
311	1e+13	NDD Unbiased	98.882	98.882	-0.0004
312	1e+13	NDD Unbiased	98.894	98.893	-0.0017
313	1e+13	NDD Unbiased	98.885	98.882	-0.0026
314	1e+13	NDD Unbiased	98.891	98.888	-0.0026
315	0	Correlation	98.895	98.897	0.0027
316	0	Correlation	98.885	98.886	0.001
317	0	Correlation	98.895	98.895	-0.0007

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.885	98.892	98.895	0.0055824	98.886	98.893	98.897	0.0057327	-0.0007	0.001	0.0027	0.0017
1e+12	98.886	98.891	98.897	0.0044806	98.885	98.891	98.896	0.00464	-0.0011	-0.0006	-0.0002	0.00037417
5e+12	98.881	98.892	98.9	0.0077839	98.879	99.105	99.748	0.42857	-0.0026	0.2132	0.8563	0.42873
1e+13	98.882	98.888	98.894	0.0055767	98.882	98.886	98.893	0.0052398	-0.0026	-0.001825	-0.0004	0.0010404

Device Test: 6.109; VOH_RESET_10MA





Test Results (Lower Limit = 75.0 (%))

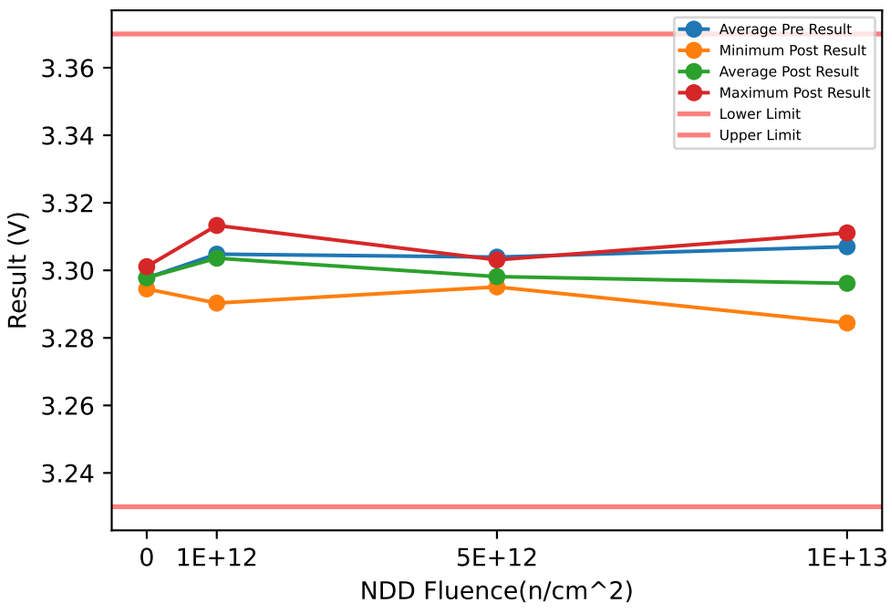
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.908	98.91	0.0019
304	1e+12	NDD Unbiased	98.904	98.907	0.0031
305	1e+12	NDD Unbiased	98.9	98.9	-0.0003
306	1e+12	NDD Unbiased	98.91	98.91	-0.0004
307	5e+12	NDD Unbiased	98.905	98.908	0.003
308	5e+12	NDD Unbiased	98.897	98.897	0
309	5e+12	NDD Unbiased	98.913	98.912	-0.0014
310	5e+12	NDD Unbiased	98.909	98.975	0.0659
311	1e+13	NDD Unbiased	98.901	98.899	-0.0018
312	1e+13	NDD Unbiased	98.909	98.906	-0.0024
313	1e+13	NDD Unbiased	98.899	98.899	-0.0002
314	1e+13	NDD Unbiased	98.903	98.903	0
315	0	Correlation	98.908	98.913	0.0047
316	0	Correlation	98.904	98.906	0.0016
317	0	Correlation	98.907	98.907	0.0003

Test Statistics (%)

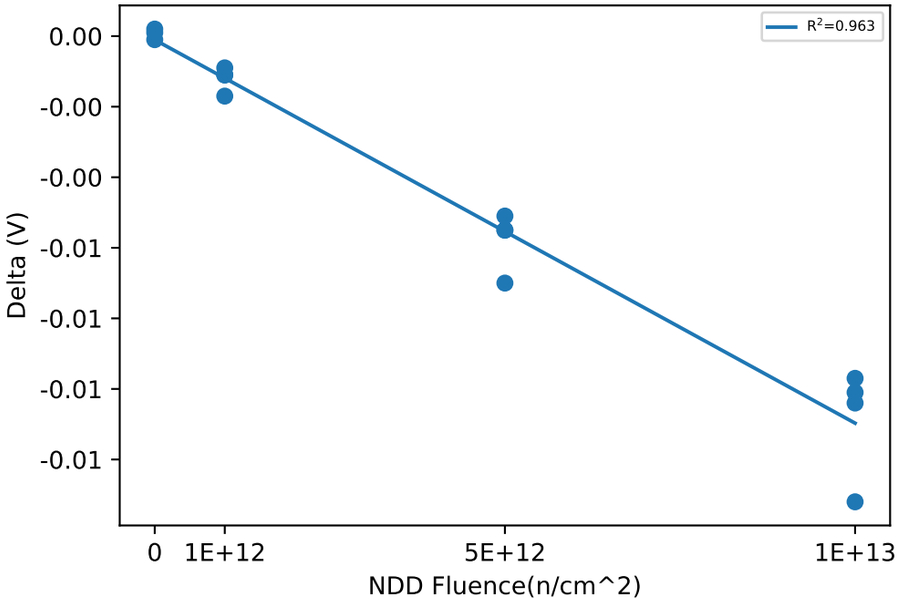
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.904	98.906	98.908	0.0020257	98.906	98.908	98.913	0.0036679	0.0003	0.0022	0.0047	0.0022605
1e+12	98.9	98.905	98.91	0.0045213	98.9	98.907	98.91	0.0048184	-0.0004	0.001075	0.0031	0.0017173
5e+12	98.897	98.906	98.913	0.007197	98.897	98.923	98.975	0.035215	-0.0014	0.016875	0.0659	0.032735
1e+13	98.899	98.903	98.909	0.0042743	98.899	98.902	98.906	0.0036079	-0.0024	-0.0011	0	0.0011832

Device Test: 6.11; VLDO_REG

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



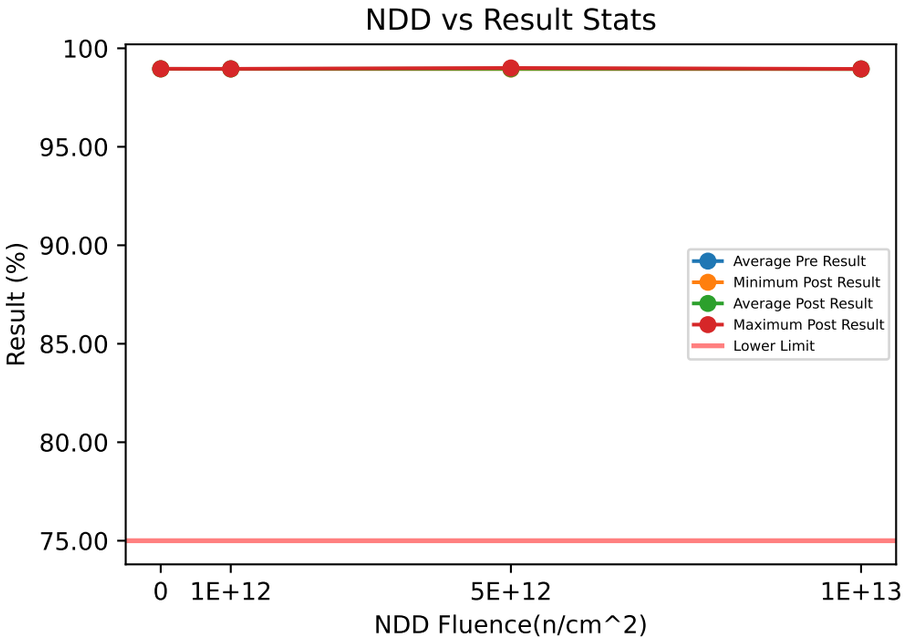
Test Results (Lower Limit = 3.23, Upper Limit = 3.37 (V))

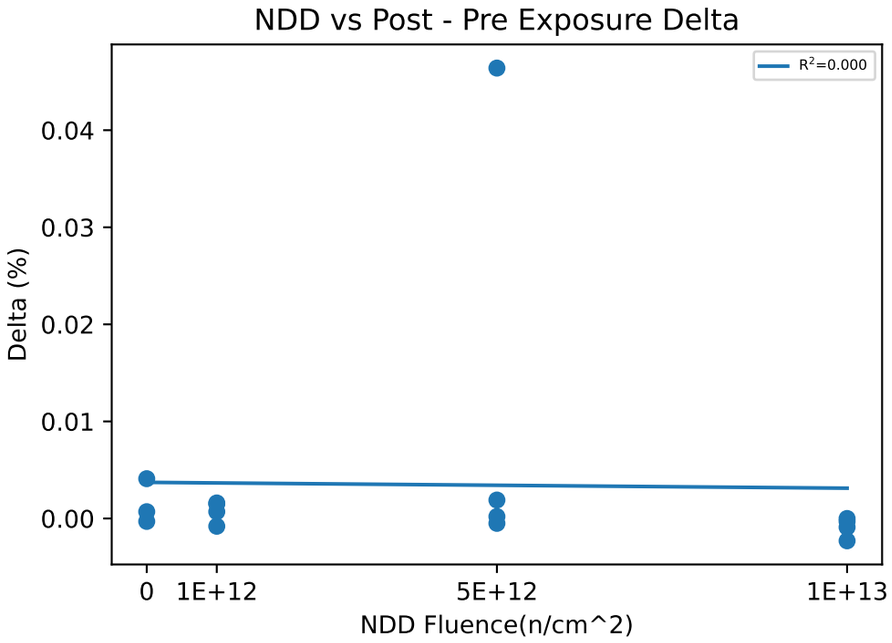
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	3.3082	3.3071	-0.0011
304	1e+12	NDD Unbiased	3.3144	3.3133	-0.0011
305	1e+12	NDD Unbiased	3.3054	3.3037	-0.0017
306	1e+12	NDD Unbiased	3.2912	3.2903	-0.0009
307	5e+12	NDD Unbiased	3.3031	3.2976	-0.0055
308	5e+12	NDD Unbiased	3.3006	3.2951	-0.0055
309	5e+12	NDD Unbiased	3.3019	3.2968	-0.0051
310	5e+12	NDD Unbiased	3.3101	3.3031	-0.007
311	1e+13	NDD Unbiased	3.3212	3.3111	-0.0101
312	1e+13	NDD Unbiased	3.2941	3.2844	-0.0097
313	1e+13	NDD Unbiased	3.298	3.2876	-0.0104
314	1e+13	NDD Unbiased	3.3147	3.3015	-0.0132
315	0	Correlation	3.3012	3.3011	-0.0001
316	0	Correlation	3.2943	3.2945	0.0002
317	0	Correlation	3.2977	3.2978	0.0001

Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.2943	3.2977	3.3012	0.0034501	3.2945	3.2978	3.3011	0.0033	-0.0001	6.6667e-05	0.0002	0.00015275
1e+12	3.2912	3.3048	3.3144	0.0098156	3.2903	3.3036	3.3133	0.0097167	-0.0017	-0.0012	-0.0009	0.00034641
5e+12	3.3006	3.3039	3.3101	0.0042414	3.2951	3.2982	3.3031	0.0034607	-0.007	-0.005775	-0.0051	0.00083815
1e+13	3.2941	3.307	3.3212	0.013017	3.2844	3.2961	3.3111	0.012427	-0.0132	-0.01085	-0.0097	0.0015927

Device Test: 6.110; VOH_RESET_10MA





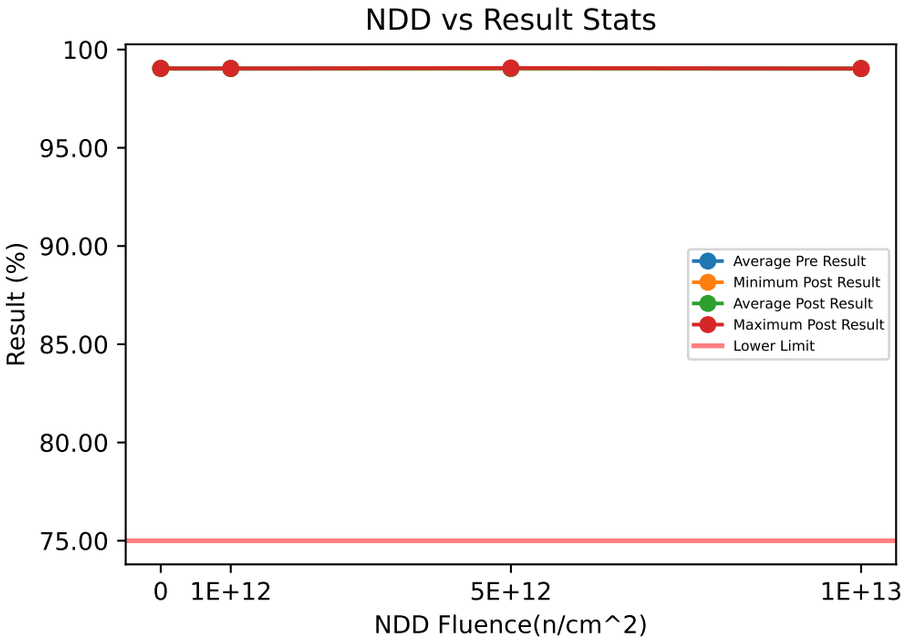
Test Results (Lower Limit = 75.0 (%))

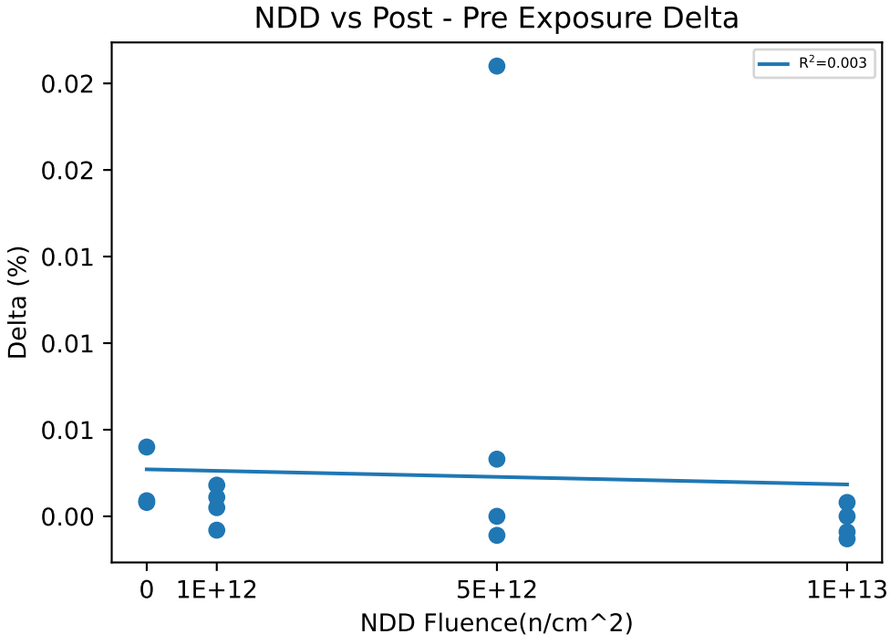
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.958	98.959	0.0007
304	1e+12	NDD Unbiased	98.952	98.953	0.0016
305	1e+12	NDD Unbiased	98.949	98.95	0.0015
306	1e+12	NDD Unbiased	98.956	98.955	-0.0008
307	5e+12	NDD Unbiased	98.956	98.957	0.0019
308	5e+12	NDD Unbiased	98.946	98.946	-0.0005
309	5e+12	NDD Unbiased	98.961	98.961	0.0002
310	5e+12	NDD Unbiased	98.955	99.001	0.0464
311	1e+13	NDD Unbiased	98.948	98.948	0
312	1e+13	NDD Unbiased	98.956	98.954	-0.0023
313	1e+13	NDD Unbiased	98.948	98.947	-0.0003
314	1e+13	NDD Unbiased	98.952	98.951	-0.0009
315	0	Correlation	98.957	98.961	0.0041
316	0	Correlation	98.953	98.954	0.0007
317	0	Correlation	98.958	98.957	-0.0003

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.953	98.956	98.958	0.0024379	98.954	98.957	98.961	0.0035501	-0.0003	0.0015	0.0041	0.0023065
1e+12	98.949	98.954	98.958	0.0042067	98.95	98.954	98.959	0.0035944	-0.0008	0.00075	0.0016	0.0011091
5e+12	98.946	98.954	98.961	0.0060136	98.946	98.966	99.001	0.024254	-0.0005	0.012	0.0464	0.022955
1e+13	98.948	98.951	98.956	0.0040158	98.947	98.95	98.954	0.0030215	-0.0023	-0.000875	0	0.001021

Device Test: 6.111; VOH_RESET_10MA





Test Results (Lower Limit = 75.0 (%))

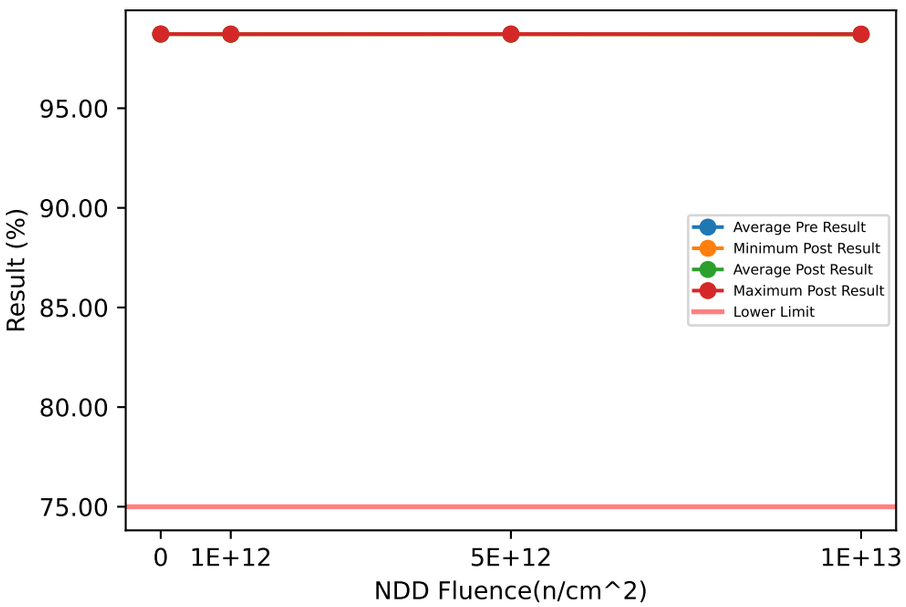
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.038	99.04	0.0018
304	1e+12	NDD Unbiased	99.035	99.036	0.0005
305	1e+12	NDD Unbiased	99.028	99.029	0.0011
306	1e+12	NDD Unbiased	99.034	99.034	-0.0008
307	5e+12	NDD Unbiased	99.034	99.037	0.0033
308	5e+12	NDD Unbiased	99.028	99.027	-0.0011
309	5e+12	NDD Unbiased	99.041	99.041	0
310	5e+12	NDD Unbiased	99.036	99.062	0.026
311	1e+13	NDD Unbiased	99.033	99.034	0.0008
312	1e+13	NDD Unbiased	99.033	99.032	-0.0013
313	1e+13	NDD Unbiased	99.032	99.032	0
314	1e+13	NDD Unbiased	99.033	99.032	-0.0009
315	0	Correlation	99.038	99.042	0.004
316	0	Correlation	99.034	99.035	0.0009
317	0	Correlation	99.037	99.038	0.0008

Test Statistics (%)

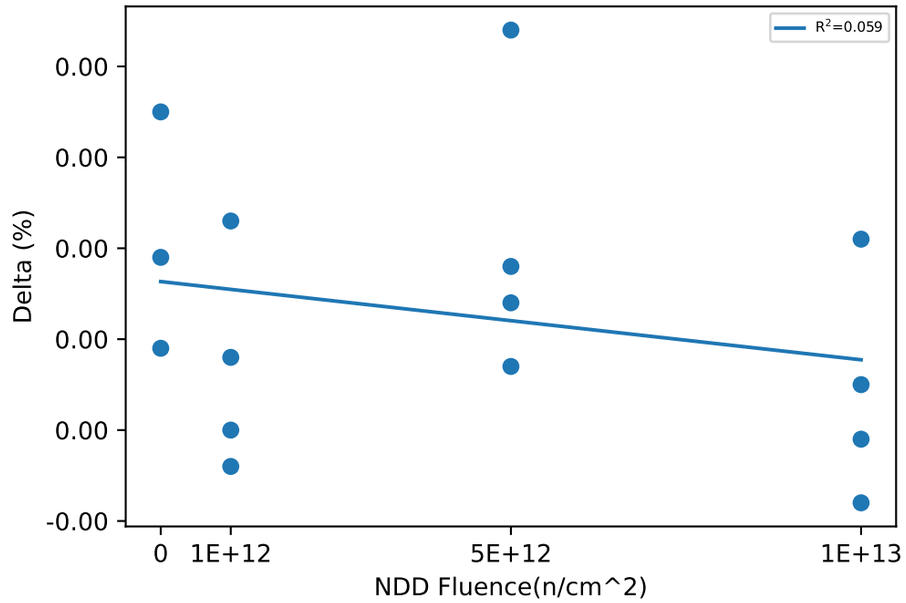
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.034	99.036	99.038	0.0019	99.035	99.038	99.042	0.0034395	0.0008	0.0019	0.004	0.0018193
1e+12	99.028	99.034	99.038	0.0043054	99.029	99.034	99.04	0.0045225	-0.0008	0.00065	0.0018	0.001103
5e+12	99.028	99.035	99.041	0.0053568	99.027	99.042	99.062	0.014669	-0.0011	0.00705	0.026	0.012771
1e+13	99.032	99.033	99.033	0.00069522	99.032	99.032	99.034	0.00080416	-0.0013	-0.00035	0.0008	0.00093986

Device Test: 6.112; VOH_WDO_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



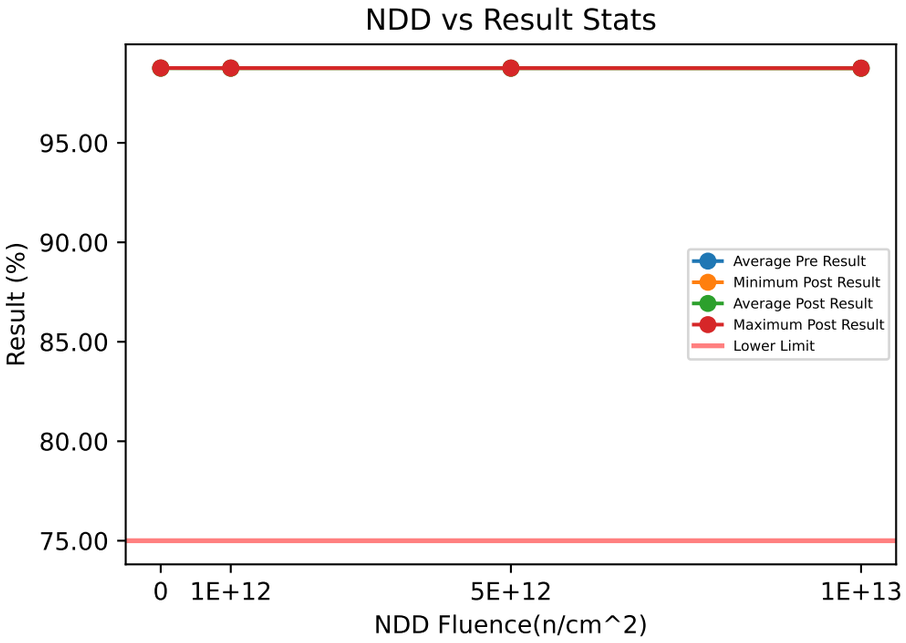
Test Results (Lower Limit = 75.0 (%))

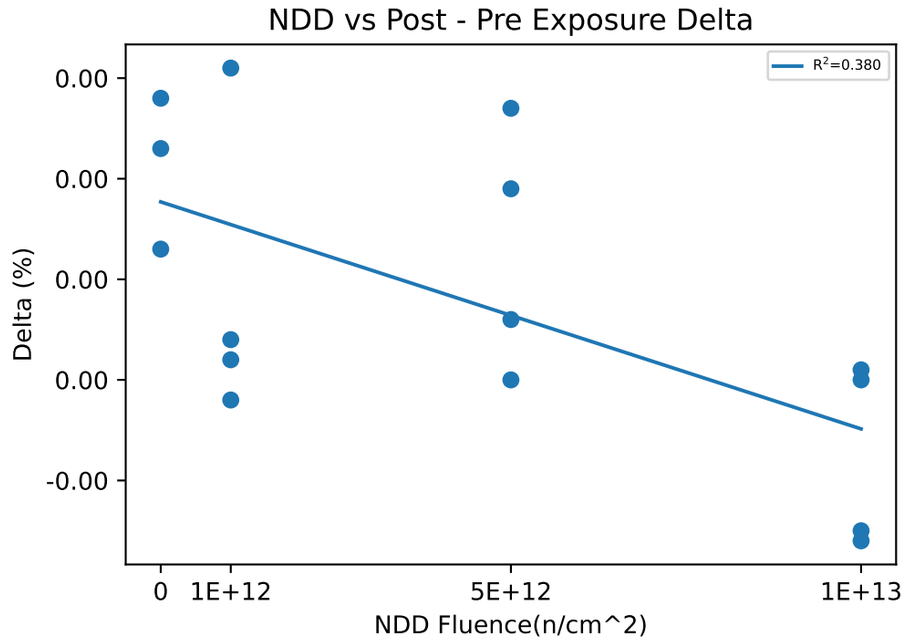
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.721	98.721	0
304	1e+12	NDD Unbiased	98.717	98.719	0.0023
305	1e+12	NDD Unbiased	98.717	98.716	-0.0004
306	1e+12	NDD Unbiased	98.715	98.716	0.0008
307	5e+12	NDD Unbiased	98.717	98.722	0.0044
308	5e+12	NDD Unbiased	98.711	98.712	0.0007
309	5e+12	NDD Unbiased	98.724	98.725	0.0014
310	5e+12	NDD Unbiased	98.719	98.721	0.0018
311	1e+13	NDD Unbiased	98.717	98.719	0.0021
312	1e+13	NDD Unbiased	98.719	98.719	-0.0008
313	1e+13	NDD Unbiased	98.707	98.707	0.0005
314	1e+13	NDD Unbiased	98.718	98.718	-0.0001
315	0	Correlation	98.724	98.727	0.0035
316	0	Correlation	98.715	98.717	0.0019
317	0	Correlation	98.72	98.721	0.0009

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.715	98.72	98.724	0.0042004	98.717	98.722	98.727	0.0050954	0.0009	0.0021	0.0035	0.0013115
1e+12	98.715	98.717	98.721	0.0024529	98.716	98.718	98.721	0.002381	-0.0004	0.000675	0.0023	0.0011927
5e+12	98.711	98.718	98.724	0.0051694	98.712	98.72	98.725	0.0056193	0.0007	0.002075	0.0044	0.0016153
1e+13	98.707	98.715	98.719	0.0056753	98.707	98.716	98.719	0.0055073	-0.0008	0.000425	0.0021	0.0012366

Device Test: 6.113; VOH_PWRGD_10MA





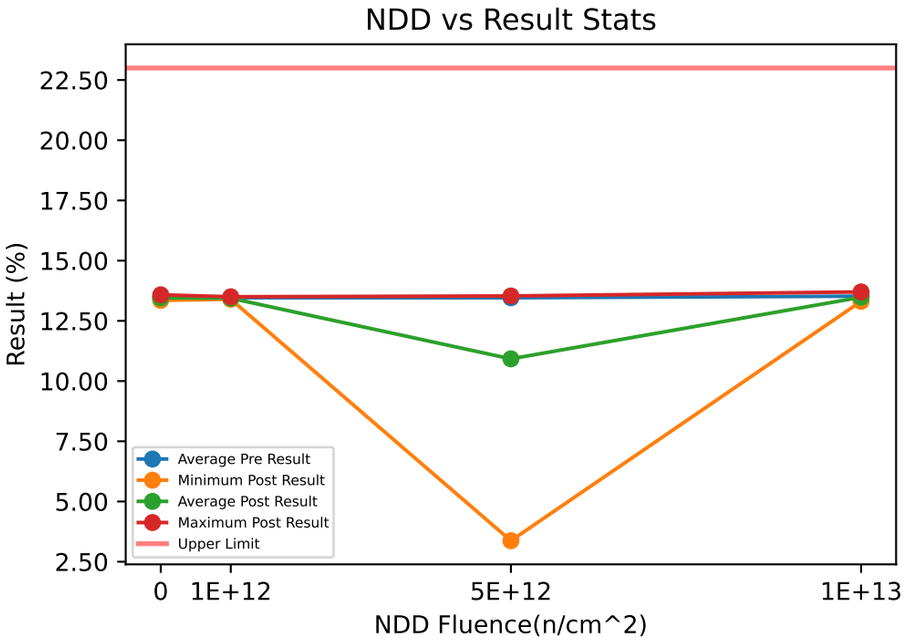
Test Results (Lower Limit = 75.0 (%))

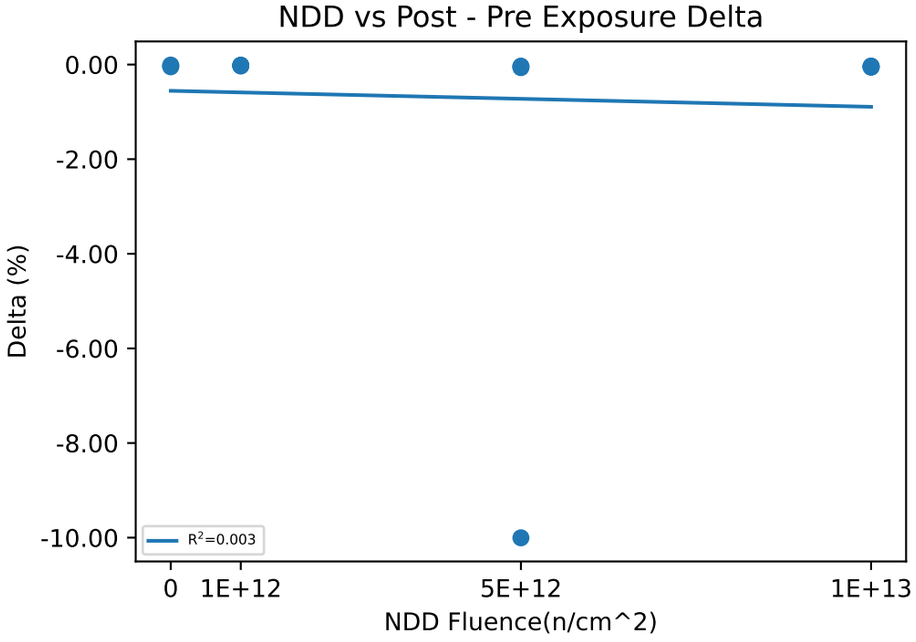
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	98.762	98.762	0.0002
304	1e+12	NDD Unbiased	98.757	98.76	0.0031
305	1e+12	NDD Unbiased	98.753	98.753	-0.0002
306	1e+12	NDD Unbiased	98.753	98.753	0.0004
307	5e+12	NDD Unbiased	98.753	98.756	0.0027
308	5e+12	NDD Unbiased	98.753	98.753	0
309	5e+12	NDD Unbiased	98.759	98.761	0.0019
310	5e+12	NDD Unbiased	98.756	98.756	0.0006
311	1e+13	NDD Unbiased	98.754	98.754	0.0001
312	1e+13	NDD Unbiased	98.76	98.758	-0.0016
313	1e+13	NDD Unbiased	98.749	98.747	-0.0015
314	1e+13	NDD Unbiased	98.756	98.756	0
315	0	Correlation	98.762	98.764	0.0023
316	0	Correlation	98.753	98.755	0.0028
317	0	Correlation	98.756	98.757	0.0013

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	98.753	98.757	98.762	0.0047791	98.755	98.759	98.764	0.0047248	0.0013	0.0021333	0.0028	0.00076376
1e+12	98.753	98.756	98.762	0.0042489	98.753	98.757	98.762	0.0047591	-0.0002	0.000875	0.0031	0.0015042
5e+12	98.753	98.755	98.759	0.00275	98.753	98.757	98.761	0.0031679	0	0.0013	0.0027	0.0012247
1e+13	98.749	98.755	98.76	0.0045727	98.747	98.754	98.758	0.00475	-0.0016	-0.00075	0.0001	0.00092556

Device Test: 6.114; VOL_RESET_10MA





Test Results (Upper Limit = 23.0 (%))

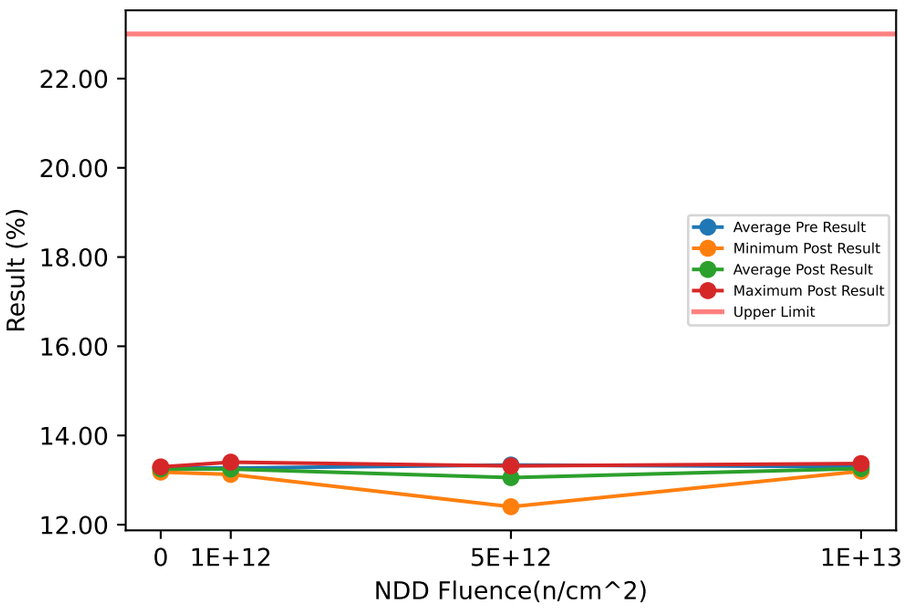
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	13.454	13.43	-0.0238
304	1e+12	NDD Unbiased	13.463	13.433	-0.0299
305	1e+12	NDD Unbiased	13.512	13.5	-0.0116
306	1e+12	NDD Unbiased	13.415	13.398	-0.0174
307	5e+12	NDD Unbiased	13.474	13.409	-0.065
308	5e+12	NDD Unbiased	13.572	13.534	-0.0385
309	5e+12	NDD Unbiased	13.414	13.378	-0.0357
310	5e+12	NDD Unbiased	13.376	3.3718	-10.004
311	1e+13	NDD Unbiased	13.525	13.469	-0.0564
312	1e+13	NDD Unbiased	13.342	13.31	-0.032
313	1e+13	NDD Unbiased	13.753	13.702	-0.0509
314	1e+13	NDD Unbiased	13.48	13.443	-0.0366
315	0	Correlation	13.398	13.35	-0.0476
316	0	Correlation	13.611	13.582	-0.0284
317	0	Correlation	13.436	13.425	-0.0109

Test Statistics (%)

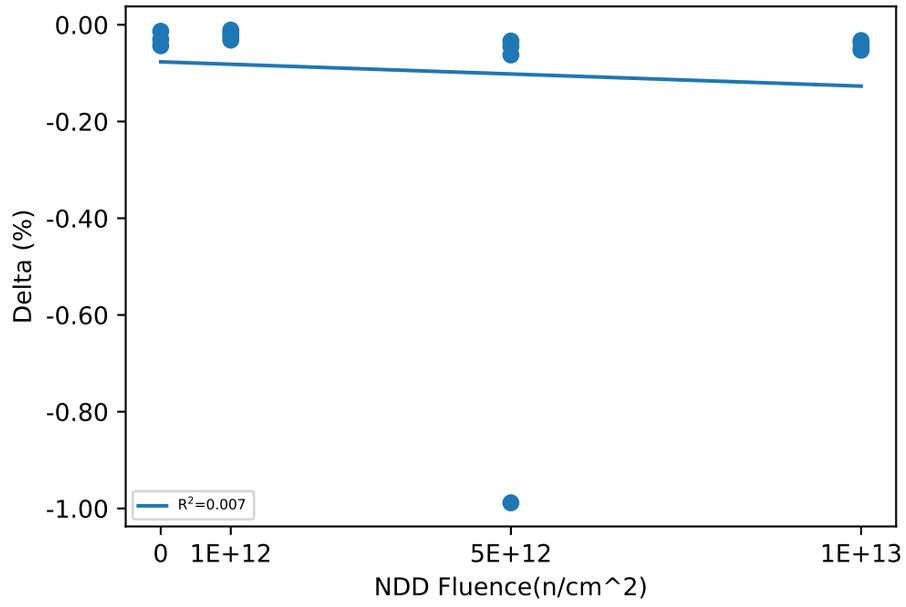
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	13.398	13.482	13.611	0.11347	13.35	13.453	13.582	0.11843	-0.0476	-0.028967	-0.0109	0.018357
1e+12	13.415	13.461	13.512	0.039776	13.398	13.44	13.5	0.043094	-0.0299	-0.020675	-0.0116	0.0079151
5e+12	13.376	13.459	13.572	0.085676	3.3718	10.923	13.534	5.0346	-10.004	-2.5357	-0.0357	4.9787
1e+13	13.342	13.525	13.753	0.17083	13.31	13.481	13.702	0.16303	-0.0564	-0.043975	-0.032	0.011549

Device Test: 6.115; VOL_RESET_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



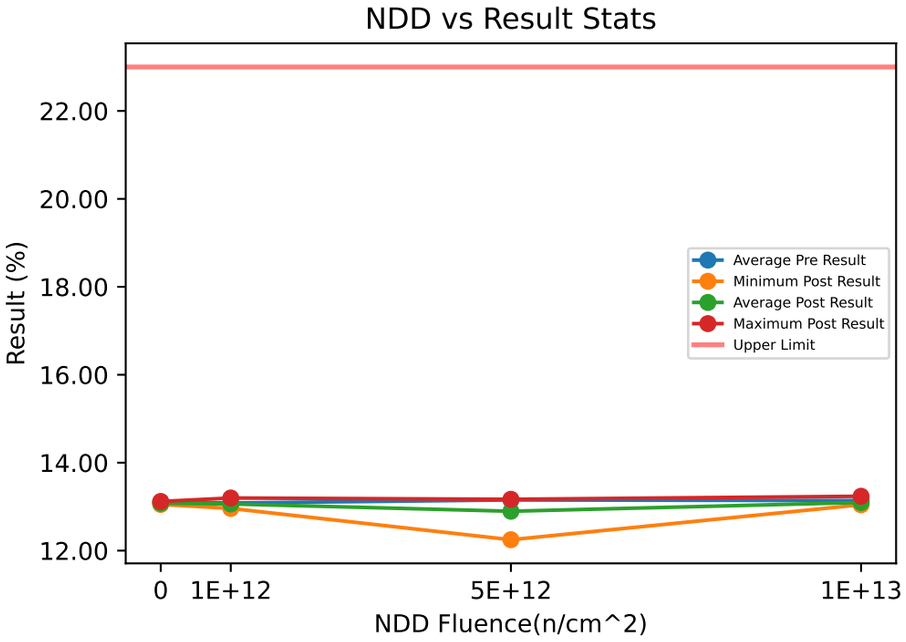
Test Results (Upper Limit = 23.0 (%))

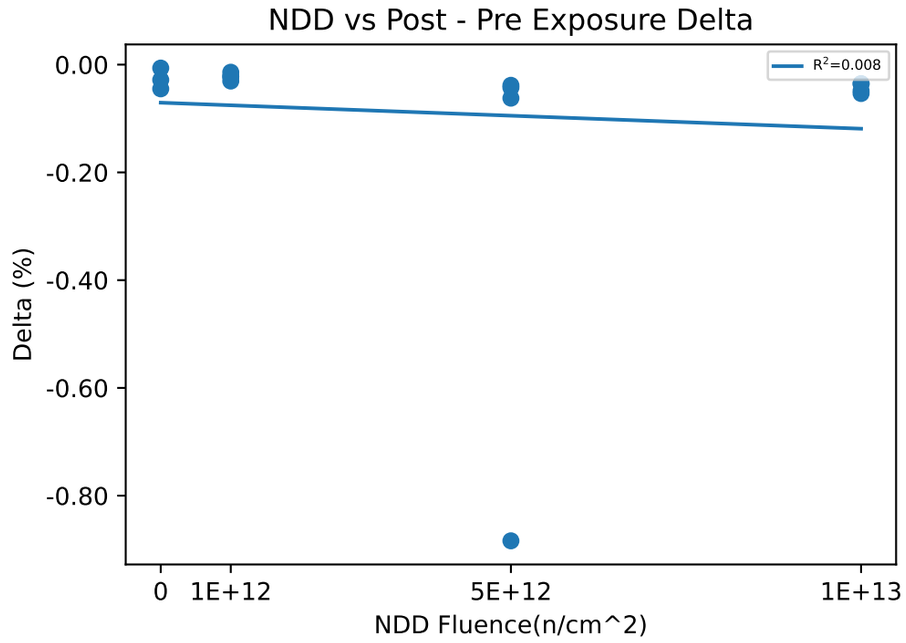
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	13.151	13.127	-0.0238
304	1e+12	NDD Unbiased	13.271	13.239	-0.0318
305	1e+12	NDD Unbiased	13.23	13.219	-0.011
306	1e+12	NDD Unbiased	13.419	13.402	-0.0177
307	5e+12	NDD Unbiased	13.297	13.235	-0.0625
308	5e+12	NDD Unbiased	13.312	13.267	-0.0451
309	5e+12	NDD Unbiased	13.351	13.318	-0.0336
310	5e+12	NDD Unbiased	13.392	12.403	-0.9884
311	1e+13	NDD Unbiased	13.263	13.215	-0.0479
312	1e+13	NDD Unbiased	13.235	13.198	-0.0372
313	1e+13	NDD Unbiased	13.423	13.37	-0.0528
314	1e+13	NDD Unbiased	13.284	13.251	-0.0327
315	0	Correlation	13.223	13.179	-0.0434
316	0	Correlation	13.309	13.279	-0.0302
317	0	Correlation	13.309	13.295	-0.0134

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	13.223	13.28	13.309	0.049999	13.179	13.251	13.295	0.062992	-0.0434	-0.029	-0.0134	0.015036
1e+12	13.151	13.268	13.419	0.1126	13.127	13.247	13.402	0.11419	-0.0318	-0.021075	-0.011	0.0088572
5e+12	13.297	13.338	13.392	0.042282	12.403	13.056	13.318	0.43633	-0.9884	-0.2824	-0.0336	0.47082
1e+13	13.235	13.301	13.423	0.083577	13.198	13.259	13.37	0.077626	-0.0528	-0.04265	-0.0327	0.0092968

Device Test: 6.116; VOL_RESET_10MA





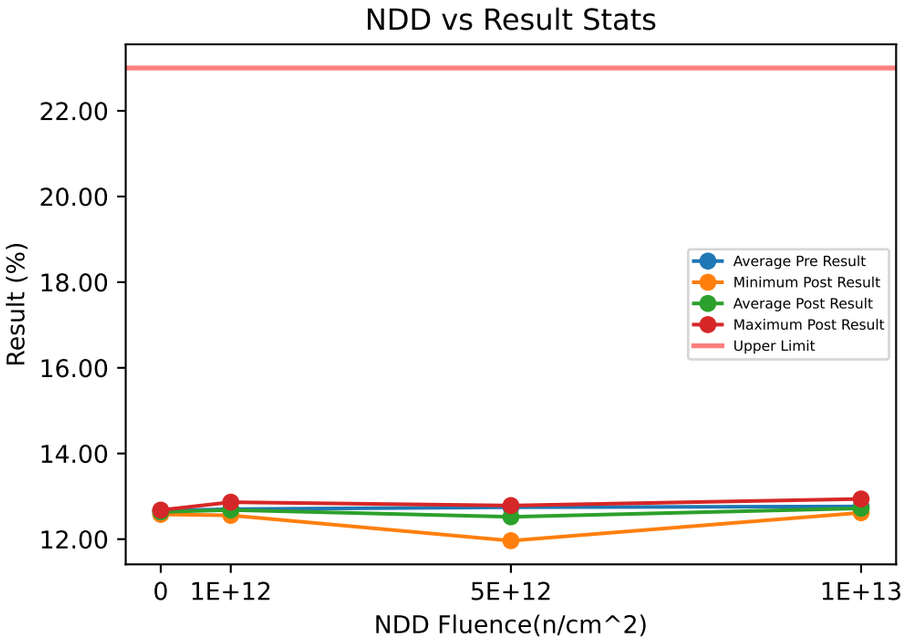
Test Results (Upper Limit = 23.0 (%))

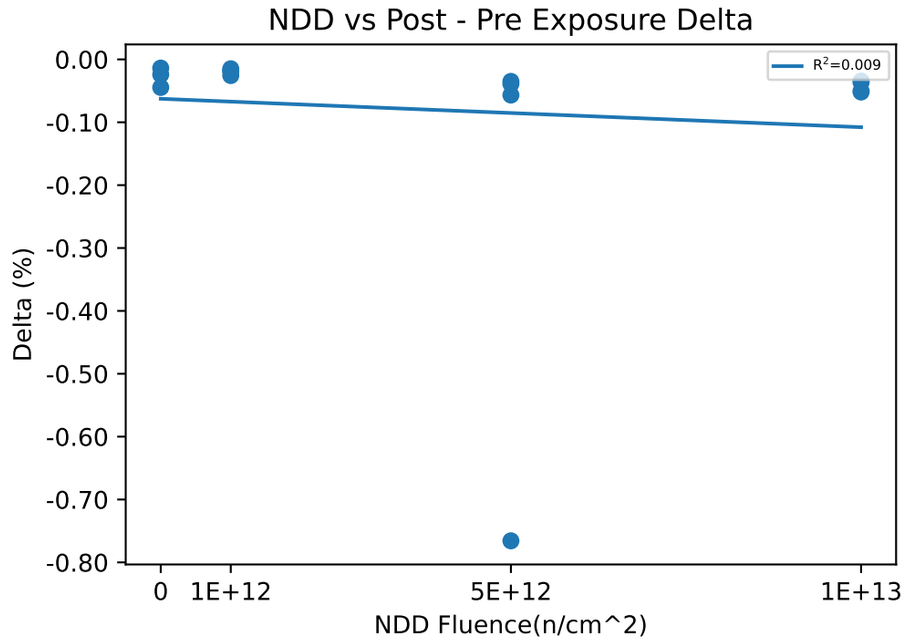
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.99	12.96	-0.0305
304	1e+12	NDD Unbiased	13.026	13.003	-0.0223
305	1e+12	NDD Unbiased	13.099	13.085	-0.0141
306	1e+12	NDD Unbiased	13.219	13.197	-0.0219
307	5e+12	NDD Unbiased	13.134	13.072	-0.0622
308	5e+12	NDD Unbiased	13.138	13.095	-0.0427
309	5e+12	NDD Unbiased	13.206	13.168	-0.0384
310	5e+12	NDD Unbiased	13.132	12.248	-0.8838
311	1e+13	NDD Unbiased	13.097	13.043	-0.0536
312	1e+13	NDD Unbiased	13.092	13.056	-0.0357
313	1e+13	NDD Unbiased	13.285	13.236	-0.0485
314	1e+13	NDD Unbiased	13.078	13.043	-0.0353
315	0	Correlation	13.111	13.066	-0.0449
316	0	Correlation	13.146	13.118	-0.0283
317	0	Correlation	13.058	13.051	-0.0064

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	13.058	13.105	13.146	0.044618	13.051	13.078	13.118	0.035173	-0.0449	-0.026533	-0.0064	0.019311
1e+12	12.99	13.083	13.219	0.10092	12.96	13.061	13.197	0.10421	-0.0305	-0.0222	-0.0141	0.0066983
5e+12	13.132	13.152	13.206	0.035733	12.248	12.896	13.168	0.4337	-0.8838	-0.25678	-0.0384	0.41814
1e+13	13.078	13.138	13.285	0.098064	13.043	13.095	13.236	0.094464	-0.0536	-0.043275	-0.0353	0.0092175

Device Test: 6.117; VOL_RESET_10MA





Test Results (Upper Limit = 23.0 (%))

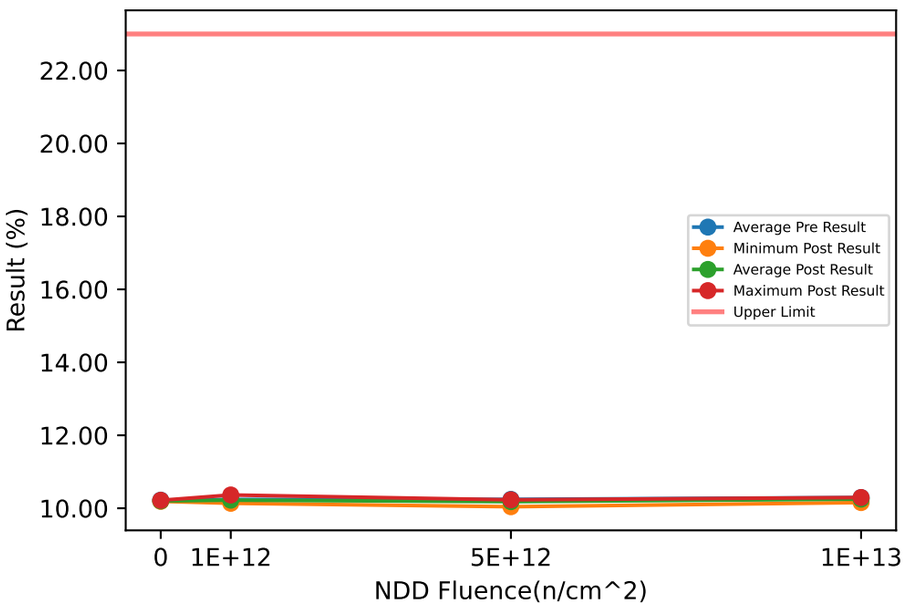
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.581	12.555	-0.0257
304	1e+12	NDD Unbiased	12.683	12.665	-0.018
305	1e+12	NDD Unbiased	12.655	12.64	-0.0149
306	1e+12	NDD Unbiased	12.881	12.863	-0.0186
307	5e+12	NDD Unbiased	12.733	12.677	-0.0567
308	5e+12	NDD Unbiased	12.698	12.659	-0.039
309	5e+12	NDD Unbiased	12.819	12.784	-0.035
310	5e+12	NDD Unbiased	12.729	11.963	-0.7657
311	1e+13	NDD Unbiased	12.667	12.617	-0.05
312	1e+13	NDD Unbiased	12.717	12.682	-0.0344
313	1e+13	NDD Unbiased	12.99	12.938	-0.0519
314	1e+13	NDD Unbiased	12.676	12.64	-0.0366
315	0	Correlation	12.696	12.651	-0.0446
316	0	Correlation	12.702	12.678	-0.0241
317	0	Correlation	12.592	12.579	-0.0138

Test Statistics (%)

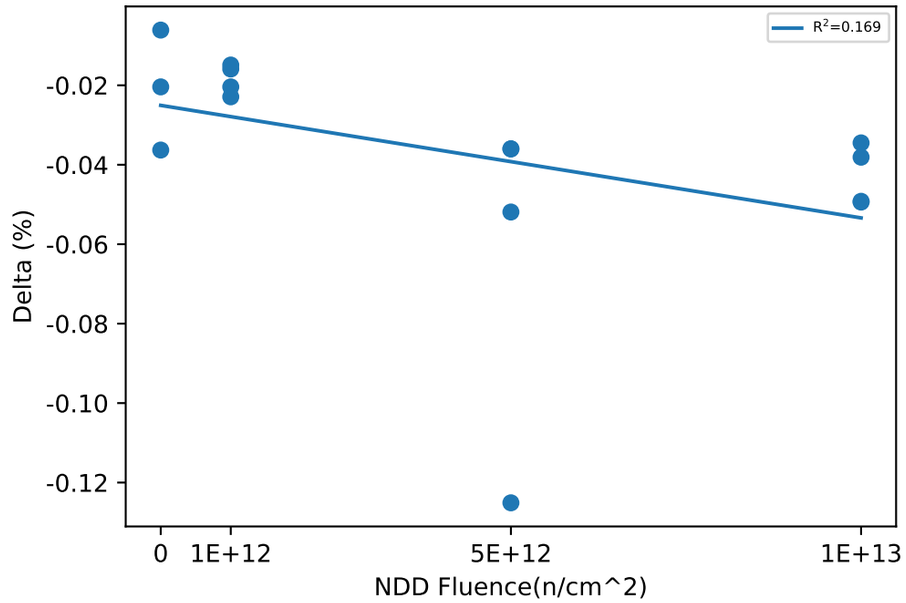
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.592	12.663	12.702	0.06155	12.579	12.636	12.678	0.051425	-0.0446	-0.0275	-0.0138	0.015679
1e+12	12.581	12.7	12.881	0.12836	12.555	12.681	12.863	0.13016	-0.0257	-0.0193	-0.0149	0.0045644
5e+12	12.698	12.745	12.819	0.05192	11.963	12.521	12.784	0.37569	-0.7657	-0.2241	-0.035	0.36119
1e+13	12.667	12.763	12.99	0.15332	12.617	12.719	12.938	0.14851	-0.0519	-0.043225	-0.0344	0.0089987

Device Test: 6.118; VOL_WDO_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



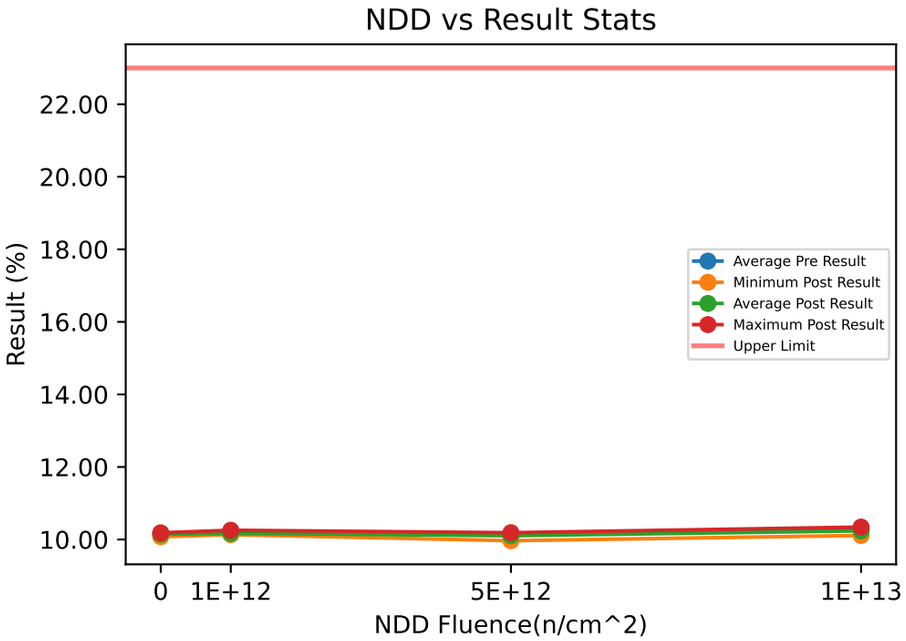
Test Results (Upper Limit = 23.0 (%))

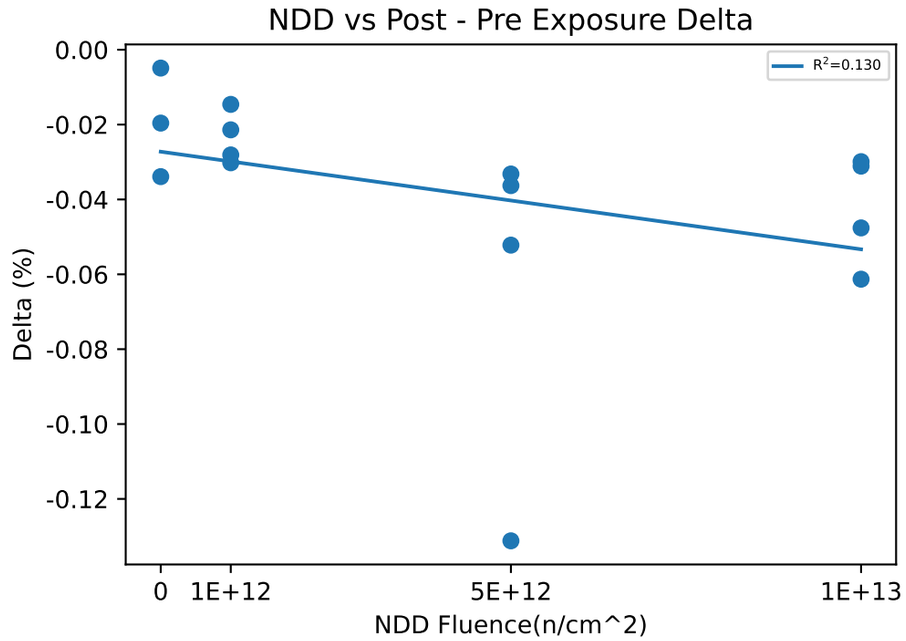
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	10.159	10.136	-0.0229
304	1e+12	NDD Unbiased	10.168	10.148	-0.0204
305	1e+12	NDD Unbiased	10.255	10.24	-0.0149
306	1e+12	NDD Unbiased	10.38	10.364	-0.0159
307	5e+12	NDD Unbiased	10.283	10.231	-0.0519
308	5e+12	NDD Unbiased	10.259	10.223	-0.036
309	5e+12	NDD Unbiased	10.266	10.23	-0.036
310	5e+12	NDD Unbiased	10.167	10.042	-0.1251
311	1e+13	NDD Unbiased	10.205	10.156	-0.0492
312	1e+13	NDD Unbiased	10.3	10.266	-0.0345
313	1e+13	NDD Unbiased	10.344	10.295	-0.0494
314	1e+13	NDD Unbiased	10.323	10.285	-0.0381
315	0	Correlation	10.226	10.19	-0.0363
316	0	Correlation	10.238	10.218	-0.0204
317	0	Correlation	10.203	10.197	-0.0061

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	10.203	10.223	10.238	0.017983	10.19	10.202	10.218	0.014628	-0.0363	-0.020933	-0.0061	0.015107
1e+12	10.159	10.241	10.38	0.10259	10.136	10.222	10.364	0.10558	-0.0229	-0.018525	-0.0149	0.0037722
5e+12	10.167	10.244	10.283	0.051993	10.042	10.182	10.231	0.092962	-0.1251	-0.06225	-0.036	0.042565
1e+13	10.205	10.293	10.344	0.061502	10.156	10.25	10.295	0.064257	-0.0494	-0.0428	-0.0345	0.0076485

Device Test: 6.119; VOL_PWRGD_10MA





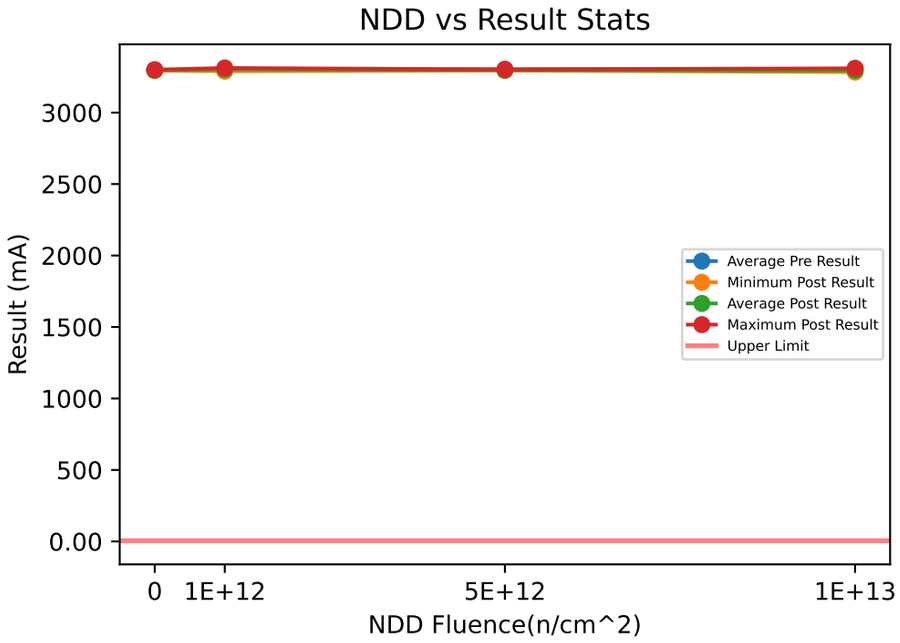
Test Results (Upper Limit = 23.0 (%))

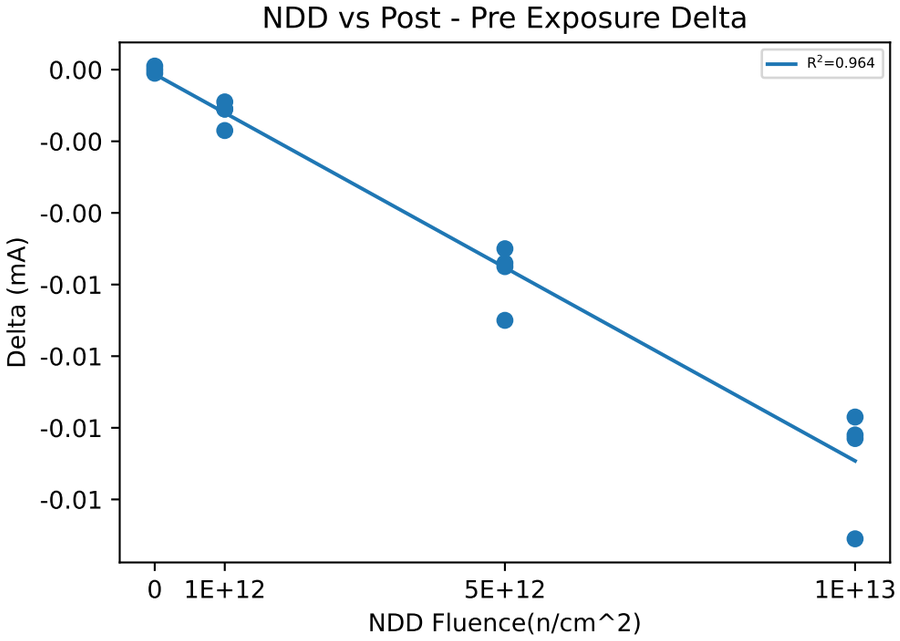
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	10.165	10.135	-0.0302
304	1e+12	NDD Unbiased	10.178	10.149	-0.0281
305	1e+12	NDD Unbiased	10.156	10.141	-0.0146
306	1e+12	NDD Unbiased	10.277	10.255	-0.0214
307	5e+12	NDD Unbiased	10.202	10.149	-0.0522
308	5e+12	NDD Unbiased	10.221	10.187	-0.0332
309	5e+12	NDD Unbiased	10.148	10.112	-0.0363
310	5e+12	NDD Unbiased	10.098	9.9668	-0.1312
311	1e+13	NDD Unbiased	10.223	10.162	-0.0613
312	1e+13	NDD Unbiased	10.142	10.112	-0.0299
313	1e+13	NDD Unbiased	10.39	10.342	-0.0476
314	1e+13	NDD Unbiased	10.372	10.341	-0.0311
315	0	Correlation	10.11	10.076	-0.0339
316	0	Correlation	10.204	10.184	-0.0196
317	0	Correlation	10.18	10.175	-0.0049

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	10.11	10.165	10.204	0.048751	10.076	10.145	10.184	0.059975	-0.0339	-0.019467	-0.0049	0.0145
1e+12	10.156	10.194	10.277	0.055959	10.135	10.17	10.255	0.057002	-0.0302	-0.023575	-0.0146	0.0070628
5e+12	10.098	10.167	10.221	0.05534	9.9668	10.104	10.187	0.09646	-0.1312	-0.063225	-0.0332	0.046075
1e+13	10.142	10.282	10.39	0.1194	10.112	10.239	10.342	0.1198	-0.0613	-0.042475	-0.0299	0.014924

Device Test: 6.12; VLDO_I_MAX





Test Results (Upper Limit = 5.0 (mA))

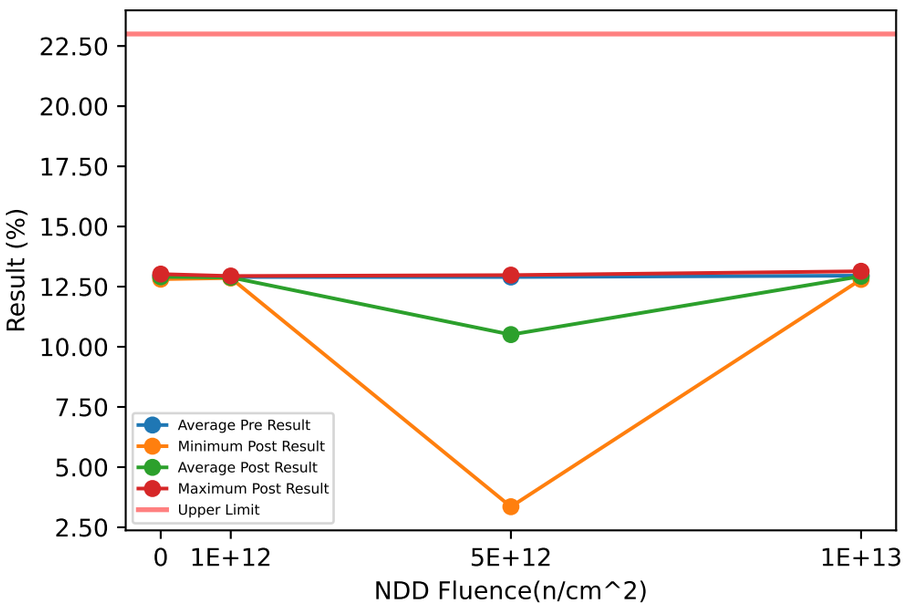
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	3306.9	3305.8	-0.0011
304	1e+12	NDD Unbiased	3313.1	3312	-0.0011
305	1e+12	NDD Unbiased	3304.2	3302.5	-0.0017
306	1e+12	NDD Unbiased	3290	3289.1	-0.0009
307	5e+12	NDD Unbiased	3301.8	3296.3	-0.0055
308	5e+12	NDD Unbiased	3299.4	3294	-0.0054
309	5e+12	NDD Unbiased	3300.7	3295.7	-0.005
310	5e+12	NDD Unbiased	3308.9	3301.9	-0.007
311	1e+13	NDD Unbiased	3319.9	3309.7	-0.0102
312	1e+13	NDD Unbiased	3292.9	3283.2	-0.0097
313	1e+13	NDD Unbiased	3296.8	3286.5	-0.0103
314	1e+13	NDD Unbiased	3313.4	3300.3	-0.0131
315	0	Correlation	3300.1	3300.1	0
316	0	Correlation	3293.2	3293.3	0.0001
317	0	Correlation	3296.6	3296.5	-0.0001

Test Statistics (mA)

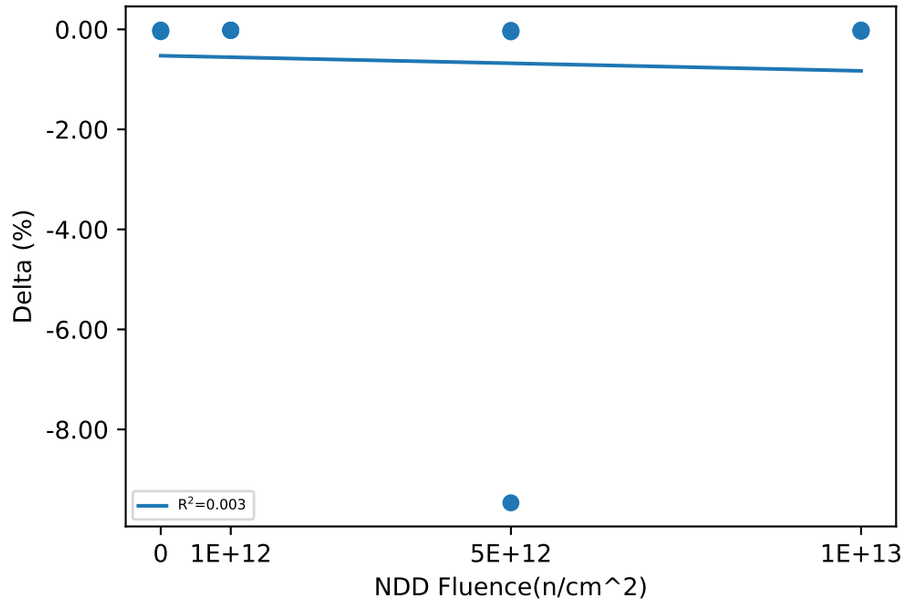
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3293.2	3296.6	3300.1	3.4501	3293.3	3296.6	3300.1	3.402	-0.0001	-1.4803e-16	0.0001	0.0001
1e+12	3290	3303.6	3313.1	9.7716	3289.1	3302.3	3312	9.6714	-0.0017	-0.0012	-0.0009	0.00034641
5e+12	3299.4	3302.7	3308.9	4.2481	3294	3297	3301.9	3.4248	-0.007	-0.005725	-0.005	0.00087702
1e+13	3292.9	3305.8	3319.9	12.961	3283.2	3294.9	3309.7	12.324	-0.0131	-0.010825	-0.0097	0.0015392

Device Test: 6.120; VOL_RESET_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



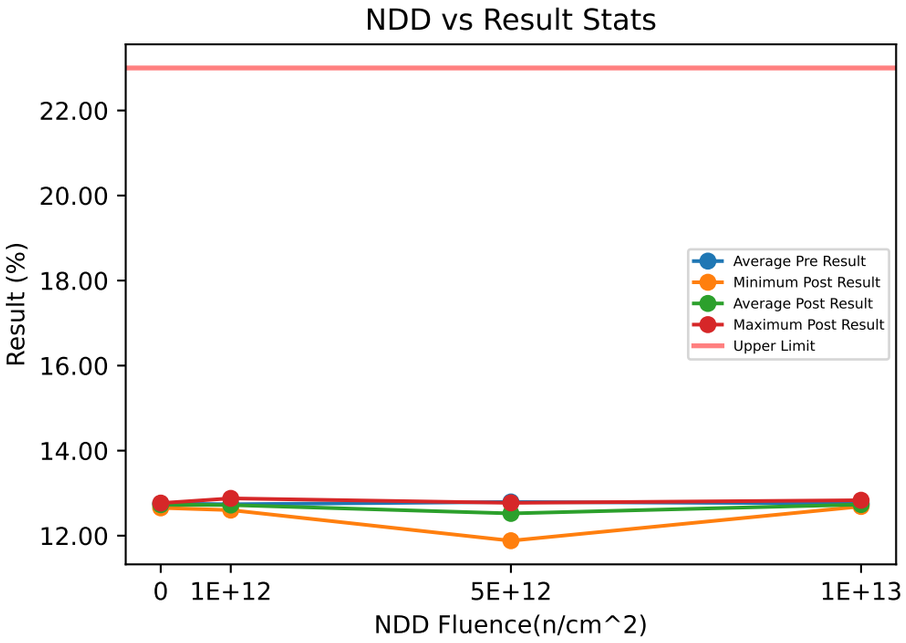
Test Results (Upper Limit = 23.0 (%))

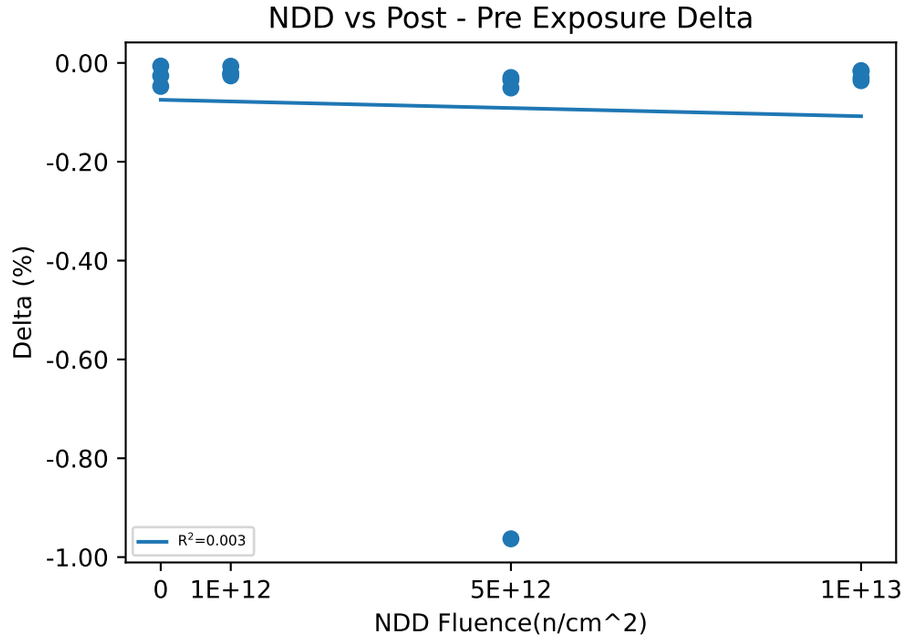
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.893	12.87	-0.0231
304	1e+12	NDD Unbiased	12.883	12.863	-0.0204
305	1e+12	NDD Unbiased	12.957	12.941	-0.0159
306	1e+12	NDD Unbiased	12.873	12.858	-0.0155
307	5e+12	NDD Unbiased	12.913	12.863	-0.0494
308	5e+12	NDD Unbiased	13.014	12.979	-0.0353
309	5e+12	NDD Unbiased	12.852	12.832	-0.0204
310	5e+12	NDD Unbiased	12.822	3.3541	-9.4676
311	1e+13	NDD Unbiased	12.937	12.9	-0.0366
312	1e+13	NDD Unbiased	12.817	12.801	-0.0165
313	1e+13	NDD Unbiased	13.173	13.139	-0.0341
314	1e+13	NDD Unbiased	12.898	12.88	-0.018
315	0	Correlation	12.857	12.81	-0.0467
316	0	Correlation	13.05	13.021	-0.0283
317	0	Correlation	12.904	12.89	-0.0143

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.857	12.937	13.05	0.10056	12.81	12.907	13.021	0.10674	-0.0467	-0.029767	-0.0143	0.01625
1e+12	12.873	12.902	12.957	0.037984	12.858	12.883	12.941	0.03934	-0.0231	-0.018725	-0.0155	0.0036664
5e+12	12.822	12.9	13.014	0.084783	3.3541	10.507	12.979	4.7691	-9.4676	-2.3932	-0.0204	4.7163
1e+13	12.817	12.956	13.173	0.15269	12.801	12.93	13.139	0.1456	-0.0366	-0.0263	-0.0165	0.010518

Device Test: 6.121; VOL_RESET_10MA





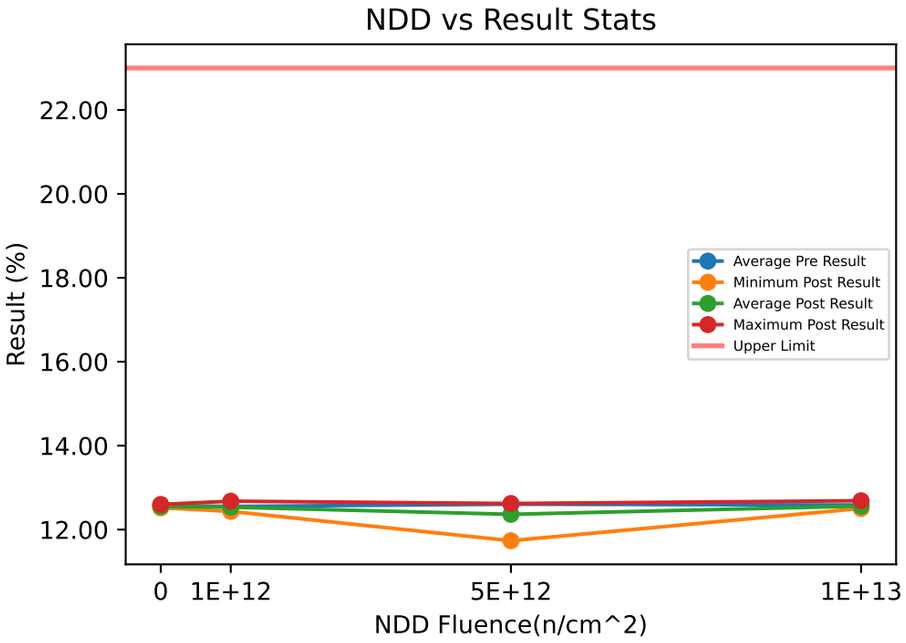
Test Results (Upper Limit = 23.0 (%))

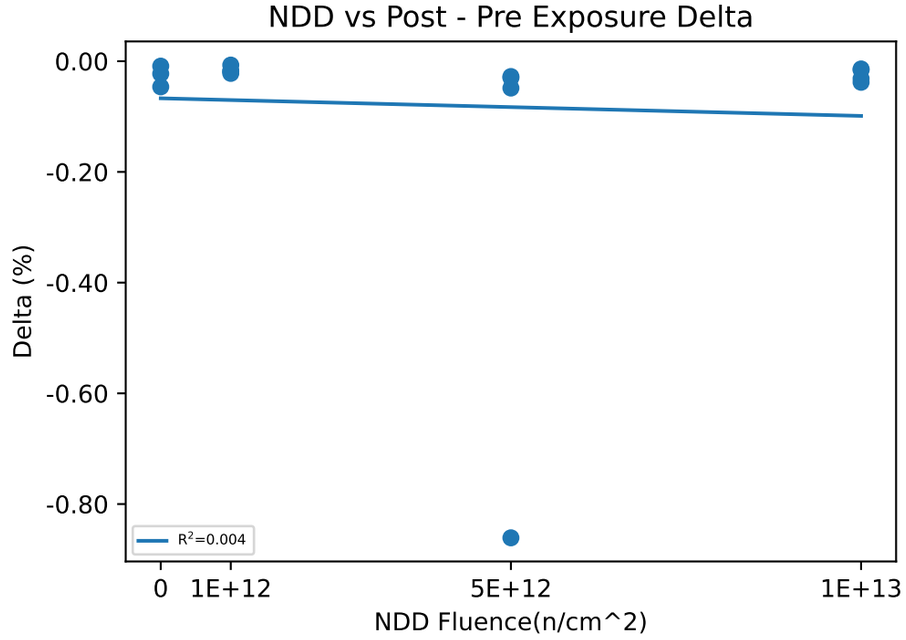
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.627	12.601	-0.0262
304	1e+12	NDD Unbiased	12.729	12.707	-0.0217
305	1e+12	NDD Unbiased	12.702	12.695	-0.0067
306	1e+12	NDD Unbiased	12.898	12.877	-0.0211
307	5e+12	NDD Unbiased	12.739	12.688	-0.0507
308	5e+12	NDD Unbiased	12.782	12.752	-0.0296
309	5e+12	NDD Unbiased	12.806	12.772	-0.0345
310	5e+12	NDD Unbiased	12.844	11.881	-0.963
311	1e+13	NDD Unbiased	12.723	12.687	-0.036
312	1e+13	NDD Unbiased	12.71	12.695	-0.0156
313	1e+13	NDD Unbiased	12.863	12.833	-0.0302
314	1e+13	NDD Unbiased	12.731	12.714	-0.0171
315	0	Correlation	12.701	12.654	-0.0475
316	0	Correlation	12.792	12.765	-0.0262
317	0	Correlation	12.773	12.766	-0.0064

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.701	12.755	12.792	0.047571	12.654	12.728	12.766	0.064606	-0.0475	-0.0267	-0.0064	0.020555
1e+12	12.627	12.739	12.898	0.11433	12.601	12.72	12.877	0.11475	-0.0262	-0.018925	-0.0067	0.0084618
5e+12	12.739	12.793	12.844	0.044205	11.881	12.523	12.772	0.42956	-0.963	-0.26945	-0.0296	0.46245
1e+13	12.71	12.757	12.863	0.071573	12.687	12.732	12.833	0.068388	-0.036	-0.024725	-0.0156	0.0099751

Device Test: 6.122; VOL_RESET_10MA





Test Results (Upper Limit = 23.0 (%))

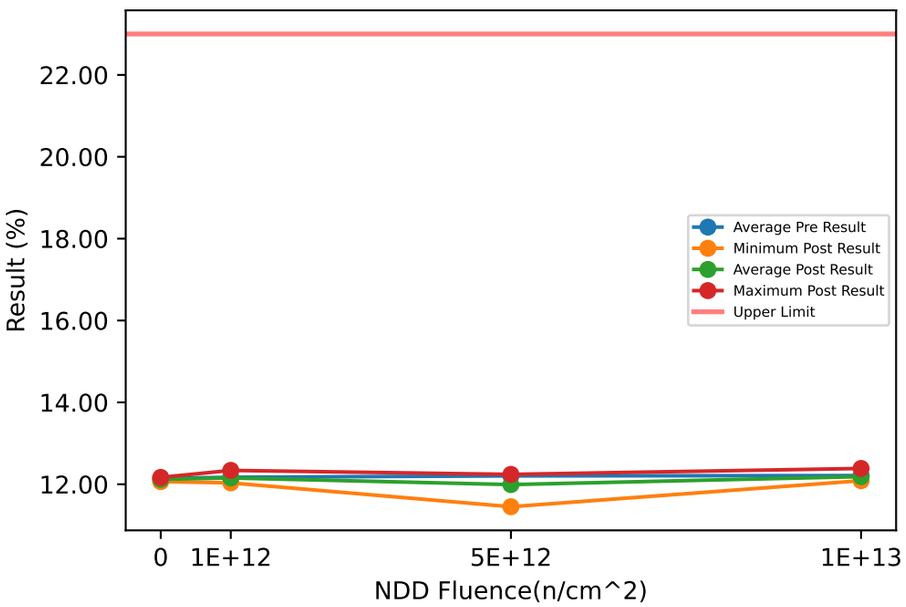
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.456	12.434	-0.022
304	1e+12	NDD Unbiased	12.491	12.472	-0.0186
305	1e+12	NDD Unbiased	12.563	12.556	-0.007
306	1e+12	NDD Unbiased	12.694	12.677	-0.0171
307	5e+12	NDD Unbiased	12.575	12.526	-0.0485
308	5e+12	NDD Unbiased	12.601	12.573	-0.0277
309	5e+12	NDD Unbiased	12.652	12.622	-0.0299
310	5e+12	NDD Unbiased	12.596	11.735	-0.861
311	1e+13	NDD Unbiased	12.543	12.505	-0.0381
312	1e+13	NDD Unbiased	12.557	12.542	-0.0158
313	1e+13	NDD Unbiased	12.719	12.688	-0.0314
314	1e+13	NDD Unbiased	12.518	12.504	-0.014
315	0	Correlation	12.577	12.53	-0.0463
316	0	Correlation	12.623	12.6	-0.0226
317	0	Correlation	12.529	12.52	-0.0089

Test Statistics (%)

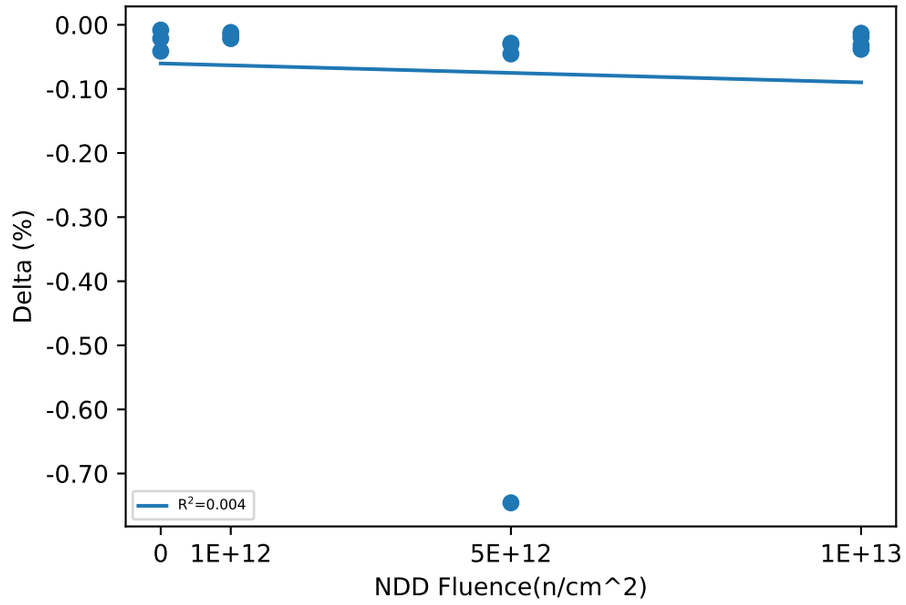
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.529	12.576	12.623	0.046804	12.52	12.55	12.6	0.04344	-0.0463	-0.025933	-0.0089	0.018922
1e+12	12.456	12.551	12.694	0.10533	12.434	12.535	12.677	0.10765	-0.022	-0.016175	-0.007	0.006451
5e+12	12.575	12.606	12.652	0.032604	11.735	12.364	12.622	0.42101	-0.861	-0.24177	-0.0277	0.41292
1e+13	12.518	12.585	12.719	0.09124	12.504	12.56	12.688	0.087168	-0.0381	-0.024825	-0.014	0.011805

Device Test: 6.123; VOL_RESET_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 23.0 (%))

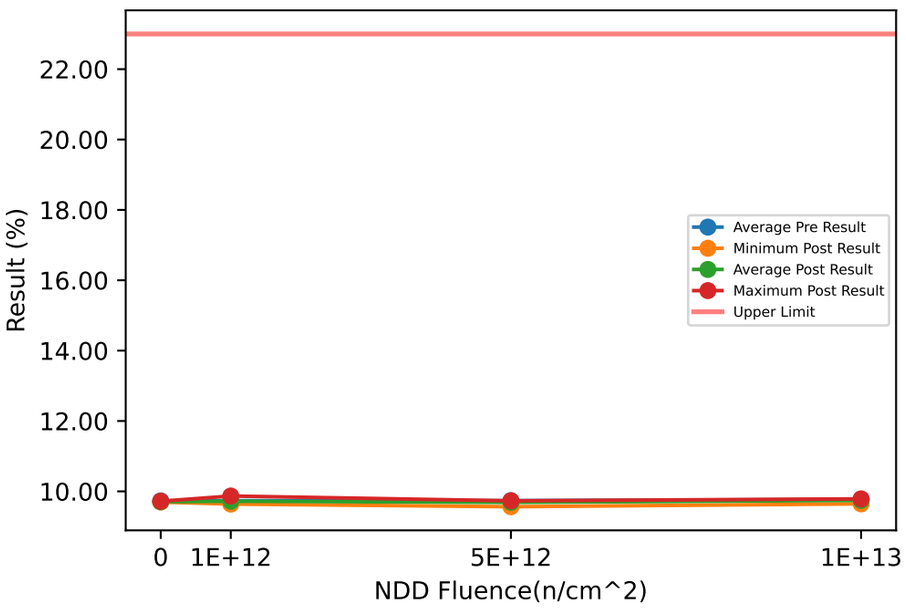
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.055	12.034	-0.0213
304	1e+12	NDD Unbiased	12.142	12.121	-0.0211
305	1e+12	NDD Unbiased	12.132	12.12	-0.0119
306	1e+12	NDD Unbiased	12.353	12.338	-0.015
307	5e+12	NDD Unbiased	12.178	12.133	-0.0455
308	5e+12	NDD Unbiased	12.172	12.142	-0.0305
309	5e+12	NDD Unbiased	12.27	12.241	-0.0287
310	5e+12	NDD Unbiased	12.197	11.451	-0.7457
311	1e+13	NDD Unbiased	12.125	12.087	-0.0382
312	1e+13	NDD Unbiased	12.184	12.165	-0.0193
313	1e+13	NDD Unbiased	12.417	12.386	-0.0317
314	1e+13	NDD Unbiased	12.119	12.106	-0.0131
315	0	Correlation	12.169	12.128	-0.0412
316	0	Correlation	12.189	12.168	-0.0213
317	0	Correlation	12.072	12.064	-0.0082

Test Statistics (%)

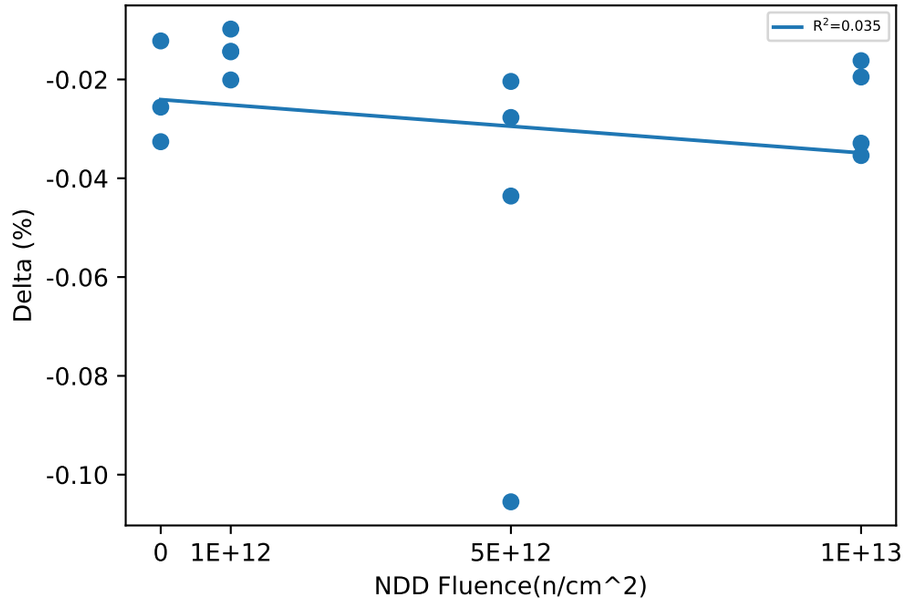
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.072	12.143	12.189	0.062337	12.064	12.12	12.168	0.052162	-0.0412	-0.023567	-0.0082	0.016616
1e+12	12.055	12.171	12.353	0.1279	12.034	12.153	12.338	0.13001	-0.0213	-0.017325	-0.0119	0.0046507
5e+12	12.172	12.204	12.27	0.044913	11.451	11.992	12.241	0.36366	-0.7457	-0.2126	-0.0287	0.35548
1e+13	12.119	12.212	12.417	0.14025	12.087	12.186	12.386	0.13713	-0.0382	-0.025575	-0.0131	0.01143

Device Test: 6.124; VOL_WDO_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 23.0 (%))

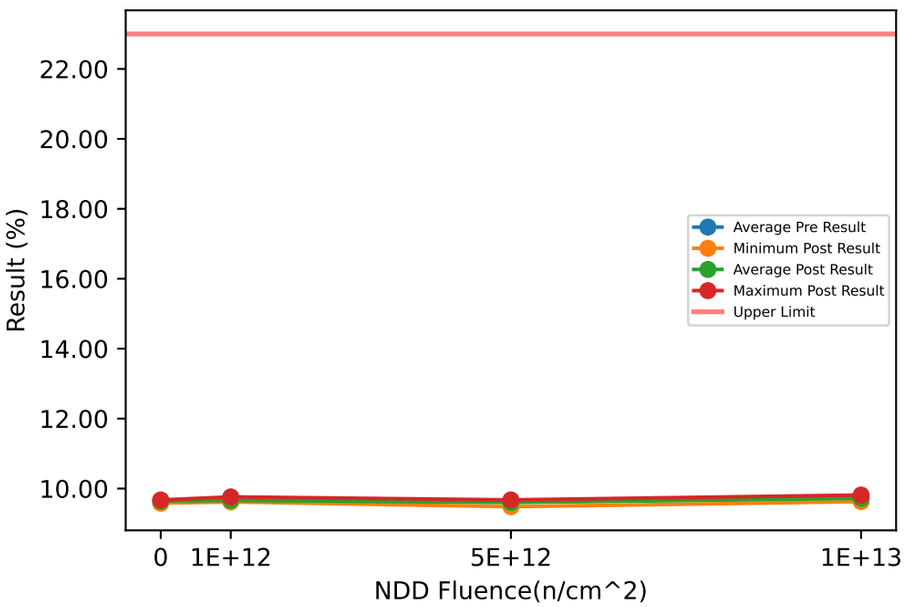
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	9.6587	9.6386	-0.0201
304	1e+12	NDD Unbiased	9.659	9.6447	-0.0143
305	1e+12	NDD Unbiased	9.7372	9.7274	-0.0098
306	1e+12	NDD Unbiased	9.8821	9.8677	-0.0144
307	5e+12	NDD Unbiased	9.7704	9.7268	-0.0436
308	5e+12	NDD Unbiased	9.7457	9.7253	-0.0204
309	5e+12	NDD Unbiased	9.7588	9.7311	-0.0277
310	5e+12	NDD Unbiased	9.6691	9.5636	-0.1055
311	1e+13	NDD Unbiased	9.6804	9.645	-0.0354
312	1e+13	NDD Unbiased	9.7936	9.7741	-0.0195
313	1e+13	NDD Unbiased	9.8198	9.7869	-0.0329
314	1e+13	NDD Unbiased	9.7854	9.7692	-0.0162
315	0	Correlation	9.7283	9.6957	-0.0326
316	0	Correlation	9.7454	9.7198	-0.0256
317	0	Correlation	9.7137	9.7015	-0.0122

Test Statistics (%)

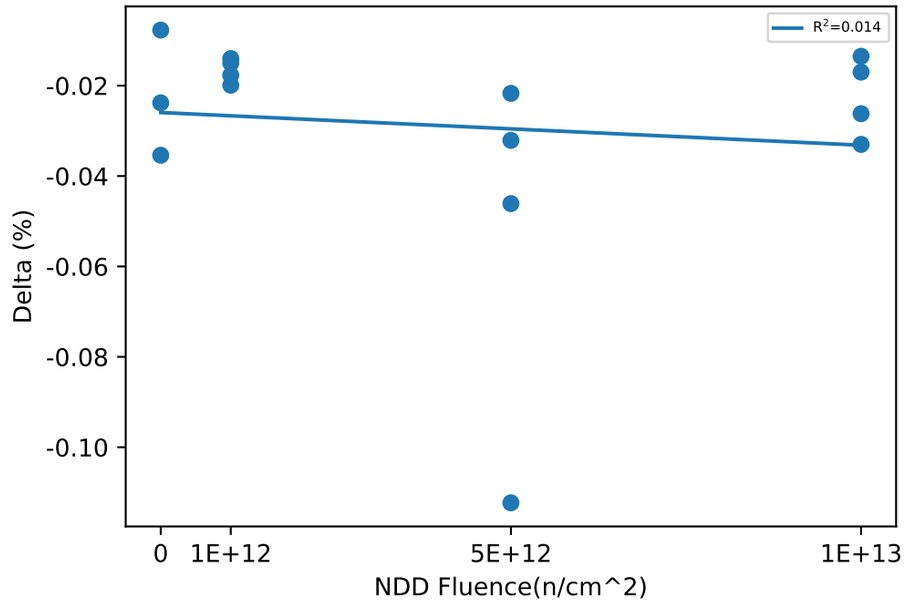
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.7137	9.7291	9.7454	0.015866	9.6957	9.7057	9.7198	0.012579	-0.0326	-0.023467	-0.0122	0.010366
1e+12	9.6587	9.7342	9.8821	0.10526	9.6386	9.7196	9.8677	0.10672	-0.0201	-0.01465	-0.0098	0.0042194
5e+12	9.6691	9.736	9.7704	0.045727	9.5636	9.6867	9.7311	0.082103	-0.1055	-0.0493	-0.0204	0.038698
1e+13	9.6804	9.7698	9.8198	0.061379	9.645	9.7438	9.7869	0.066288	-0.0354	-0.026	-0.0162	0.0095614

Device Test: 6.125; VOL_PWRGD_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



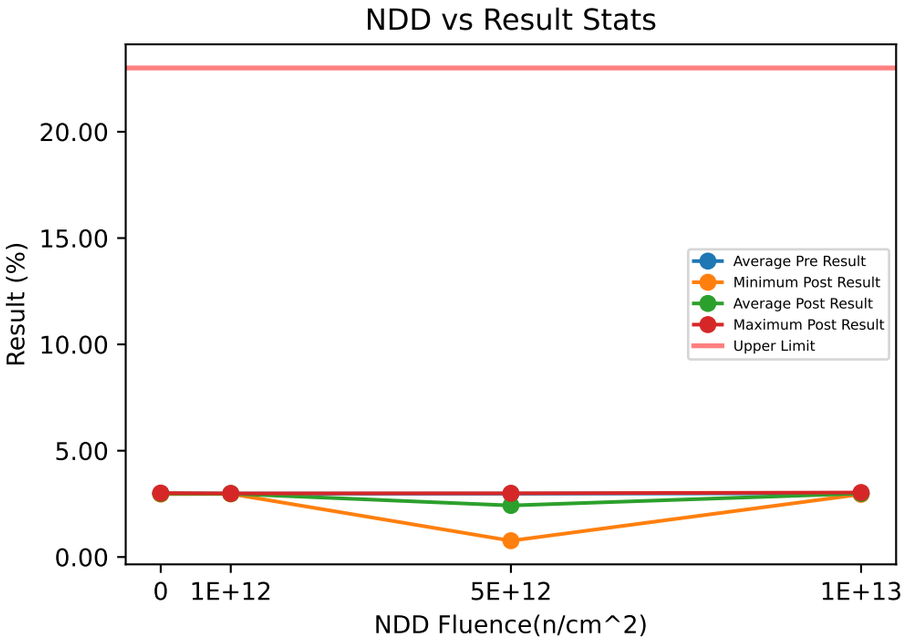
Test Results (Upper Limit = 23.0 (%))

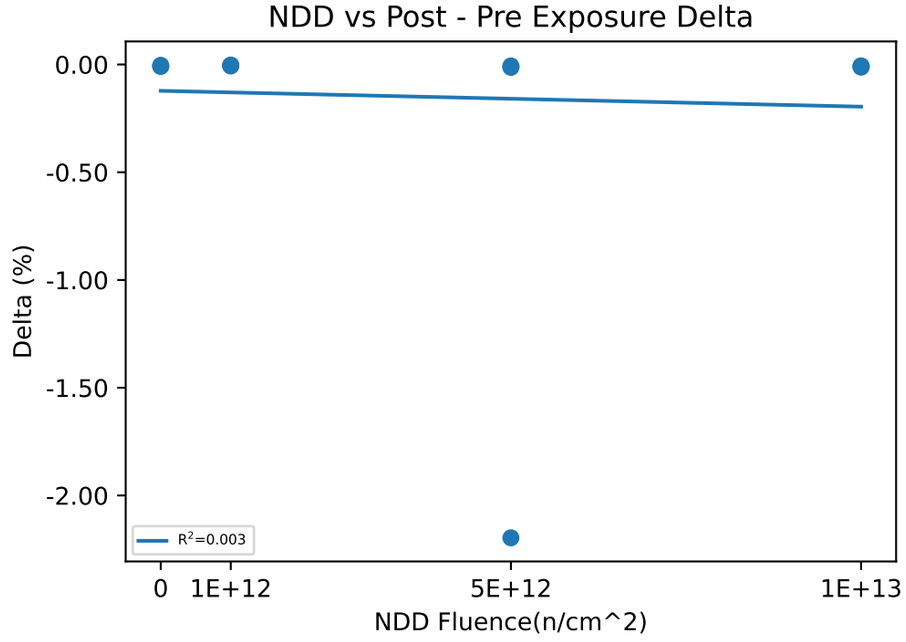
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	9.6525	9.6326	-0.0199
304	1e+12	NDD Unbiased	9.6482	9.6342	-0.014
305	1e+12	NDD Unbiased	9.6357	9.618	-0.0177
306	1e+12	NDD Unbiased	9.7764	9.7614	-0.015
307	5e+12	NDD Unbiased	9.6851	9.639	-0.0461
308	5e+12	NDD Unbiased	9.6967	9.675	-0.0217
309	5e+12	NDD Unbiased	9.6397	9.6076	-0.0321
310	5e+12	NDD Unbiased	9.5924	9.4801	-0.1123
311	1e+13	NDD Unbiased	9.672	9.639	-0.033
312	1e+13	NDD Unbiased	9.6397	9.6262	-0.0135
313	1e+13	NDD Unbiased	9.8404	9.8142	-0.0262
314	1e+13	NDD Unbiased	9.8114	9.7944	-0.017
315	0	Correlation	9.6146	9.5792	-0.0354
316	0	Correlation	9.6967	9.6729	-0.0238
317	0	Correlation	9.6766	9.6689	-0.0077

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.6146	9.6626	9.6967	0.042795	9.5792	9.6403	9.6729	0.052981	-0.0354	-0.0223	-0.0077	0.013911
1e+12	9.6357	9.6782	9.7764	0.065853	9.618	9.6616	9.7614	0.066965	-0.0199	-0.01665	-0.014	0.0026715
5e+12	9.5924	9.6535	9.6967	0.047569	9.4801	9.6004	9.675	0.084812	-0.1123	-0.05305	-0.0217	0.040746
1e+13	9.6397	9.7409	9.8404	0.099765	9.6262	9.7185	9.8142	0.099597	-0.033	-0.022425	-0.0135	0.0088538

Device Test: 6.126; VOL_RESET_10MA





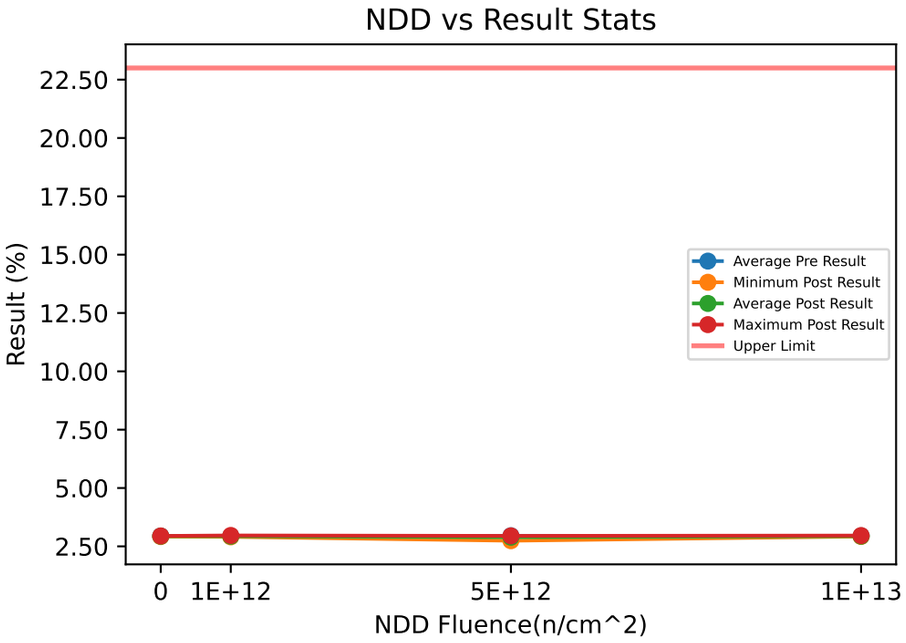
Test Results (Upper Limit = 23.0 (%))

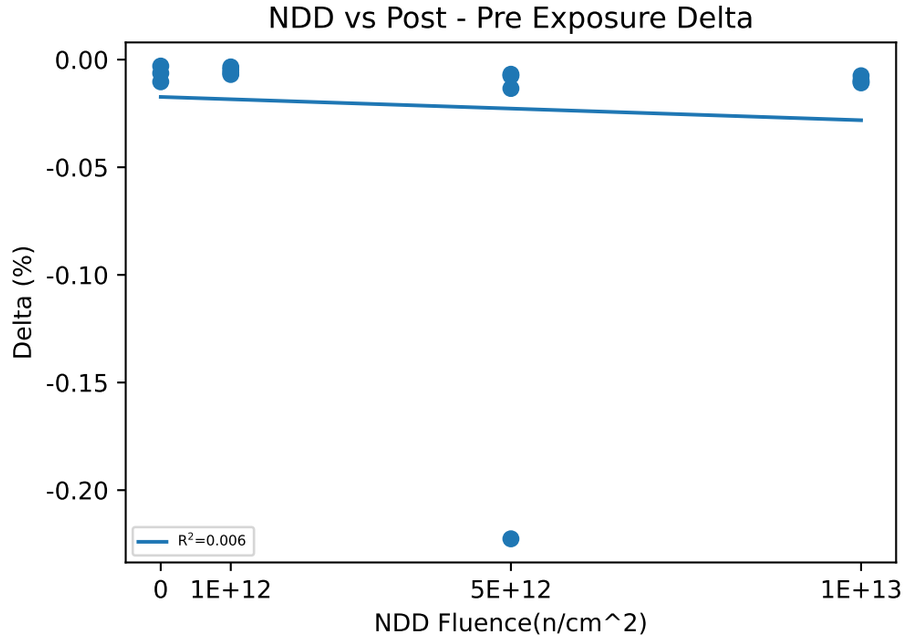
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.9812	2.975	-0.0062
304	1e+12	NDD Unbiased	2.9814	2.9756	-0.0058
305	1e+12	NDD Unbiased	2.9948	2.9903	-0.0045
306	1e+12	NDD Unbiased	2.9711	2.9684	-0.0027
307	5e+12	NDD Unbiased	2.9848	2.9716	-0.0132
308	5e+12	NDD Unbiased	3.0076	2.9967	-0.0109
309	5e+12	NDD Unbiased	2.9685	2.9618	-0.0067
310	5e+12	NDD Unbiased	2.9628	0.7663	-2.1965
311	1e+13	NDD Unbiased	2.9951	2.9829	-0.0122
312	1e+13	NDD Unbiased	2.9562	2.9482	-0.008
313	1e+13	NDD Unbiased	3.0437	3.0335	-0.0102
314	1e+13	NDD Unbiased	2.986	2.9794	-0.0066
315	0	Correlation	2.9672	2.9585	-0.0087
316	0	Correlation	3.0156	3.008	-0.0076
317	0	Correlation	2.9783	2.9745	-0.0038

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.9672	2.987	3.0156	0.025354	2.9585	2.9803	3.008	0.02526	-0.0087	-0.0067	-0.0038	0.002571
1e+12	2.9711	2.9821	2.9948	0.0097226	2.9684	2.9773	2.9903	0.0092446	-0.0062	-0.0048	-0.0027	0.0015769
5e+12	2.9628	2.9809	3.0076	0.020079	0.7663	2.4241	2.9967	1.1053	-2.1965	-0.55683	-0.0067	1.0931
1e+13	2.9562	2.9952	3.0437	0.036322	2.9482	2.986	3.0335	0.0353	-0.0122	-0.00925	-0.0066	0.0024624

Device Test: 6.127; VOL_RESET_10MA





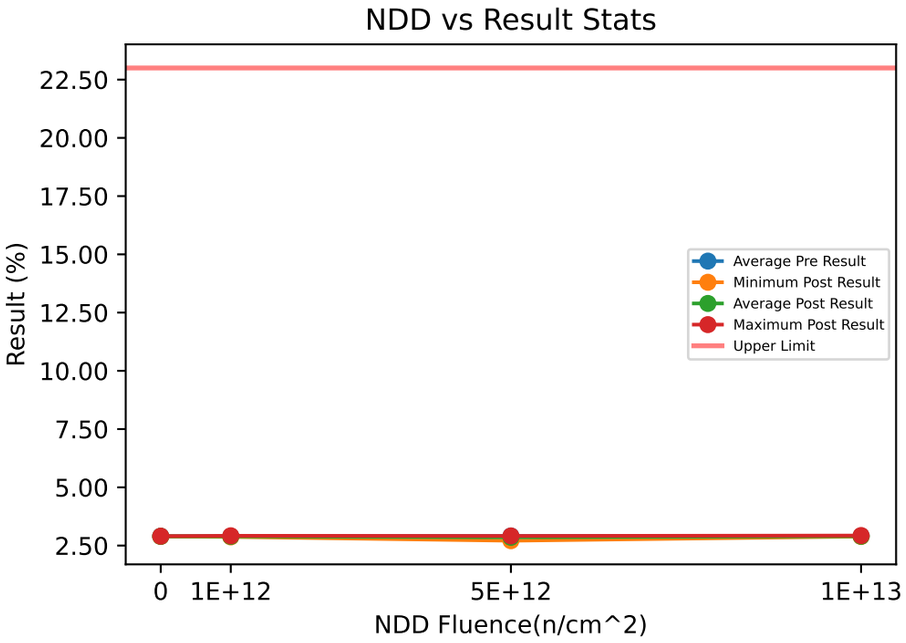
Test Results (Upper Limit = 23.0 (%))

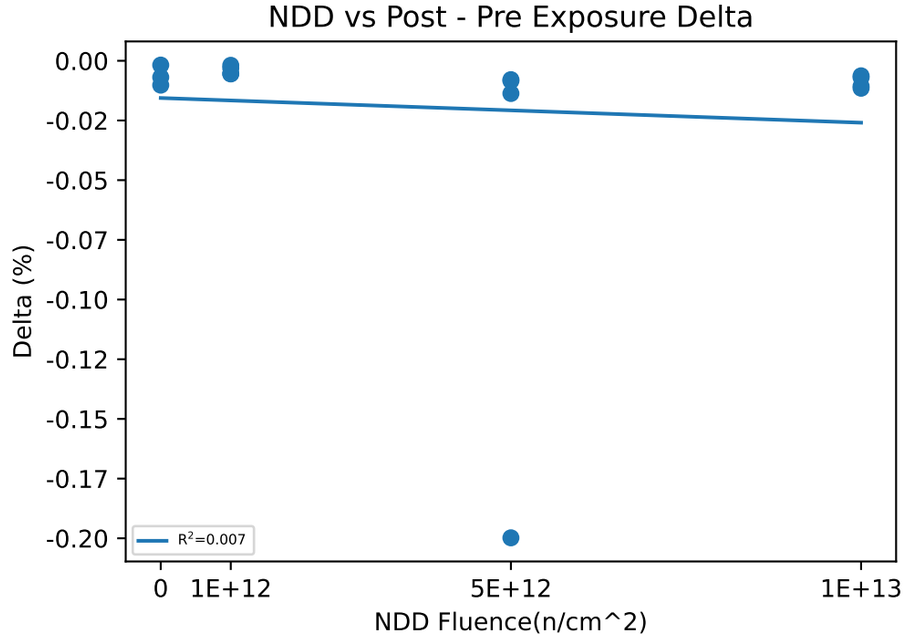
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.915	2.9081	-0.0069
304	1e+12	NDD Unbiased	2.9398	2.9337	-0.0061
305	1e+12	NDD Unbiased	2.9315	2.9281	-0.0034
306	1e+12	NDD Unbiased	2.9716	2.9669	-0.0047
307	5e+12	NDD Unbiased	2.9458	2.9324	-0.0134
308	5e+12	NDD Unbiased	2.9479	2.9404	-0.0075
309	5e+12	NDD Unbiased	2.9559	2.9491	-0.0068
310	5e+12	NDD Unbiased	2.9638	2.7412	-0.2226
311	1e+13	NDD Unbiased	2.9397	2.9293	-0.0104
312	1e+13	NDD Unbiased	2.9303	2.9228	-0.0075
313	1e+13	NDD Unbiased	2.9733	2.9625	-0.0108
314	1e+13	NDD Unbiased	2.9452	2.9357	-0.0095
315	0	Correlation	2.9291	2.9188	-0.0103
316	0	Correlation	2.9483	2.942	-0.0063
317	0	Correlation	2.9489	2.9459	-0.003

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.9291	2.9421	2.9489	0.011262	2.9188	2.9356	2.9459	0.014651	-0.0103	-0.0065333	-0.003	0.0036556
1e+12	2.915	2.9395	2.9716	0.023768	2.9081	2.9342	2.9669	0.024413	-0.0069	-0.005275	-0.0034	0.0015457
5e+12	2.9458	2.9534	2.9638	0.008214	2.7412	2.8908	2.9491	0.09995	-0.2226	-0.062575	-0.0068	0.10672
1e+13	2.9303	2.9471	2.9733	0.018503	2.9228	2.9376	2.9625	0.017431	-0.0108	-0.00955	-0.0075	0.0014708

Device Test: 6.128; VOL_RESET_10MA





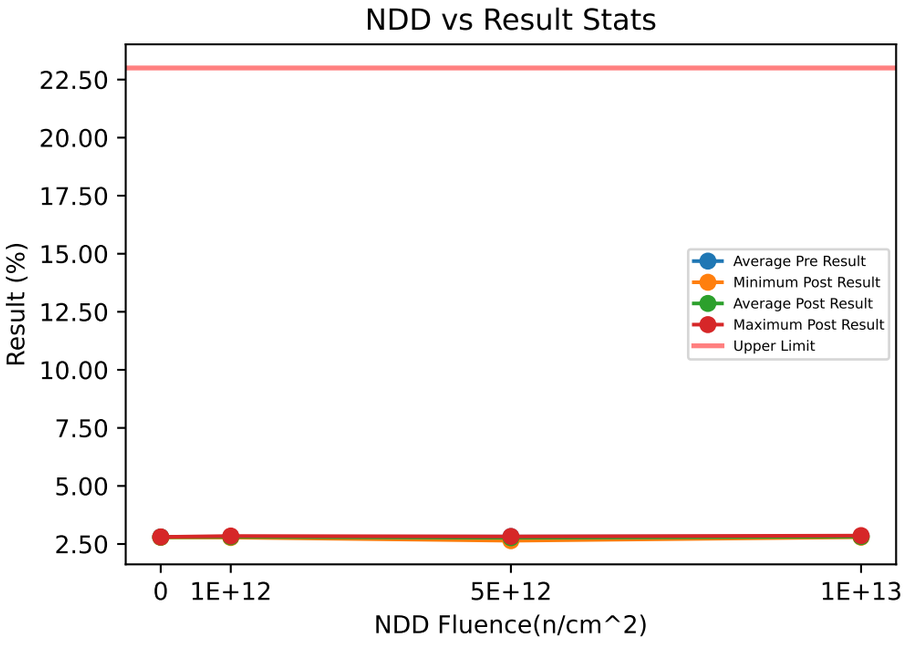
Test Results (Upper Limit = 23.0 (%))

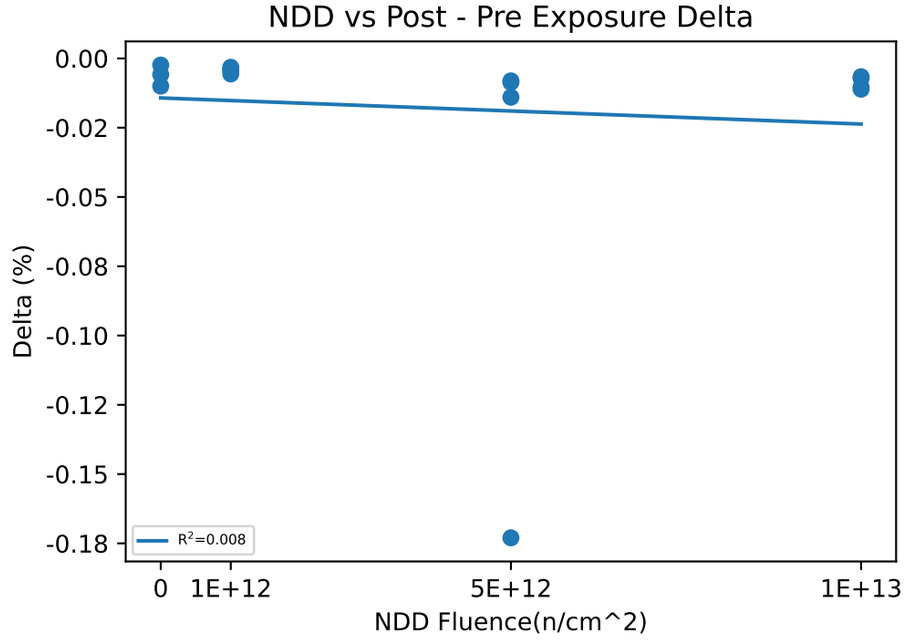
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.8781	2.8726	-0.0055
304	1e+12	NDD Unbiased	2.8849	2.8818	-0.0031
305	1e+12	NDD Unbiased	2.9005	2.8986	-0.0019
306	1e+12	NDD Unbiased	2.9253	2.9199	-0.0054
307	5e+12	NDD Unbiased	2.9065	2.8928	-0.0137
308	5e+12	NDD Unbiased	2.9084	2.9005	-0.0079
309	5e+12	NDD Unbiased	2.9211	2.9127	-0.0084
310	5e+12	NDD Unbiased	2.9077	2.7079	-0.1998
311	1e+13	NDD Unbiased	2.9015	2.89	-0.0115
312	1e+13	NDD Unbiased	2.8973	2.891	-0.0063
313	1e+13	NDD Unbiased	2.9404	2.9298	-0.0106
314	1e+13	NDD Unbiased	2.8959	2.8889	-0.007
315	0	Correlation	2.9011	2.8909	-0.0102
316	0	Correlation	2.9107	2.9038	-0.0069
317	0	Correlation	2.892	2.8902	-0.0018

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.892	2.9013	2.9107	0.0093511	2.8902	2.895	2.9038	0.0076579	-0.0102	-0.0063	-0.0018	0.004232
1e+12	2.8781	2.8972	2.9253	0.020949	2.8726	2.8932	2.9199	0.020788	-0.0055	-0.003975	-0.0019	0.0017727
5e+12	2.9065	2.9109	2.9211	0.0068286	2.7079	2.8535	2.9127	0.097395	-0.1998	-0.05745	-0.0079	0.094936
1e+13	2.8959	2.9088	2.9404	0.021217	2.8889	2.8999	2.9298	0.019935	-0.0115	-0.00885	-0.0063	0.0025826

Device Test: 6.129; VOL_RESET_10MA





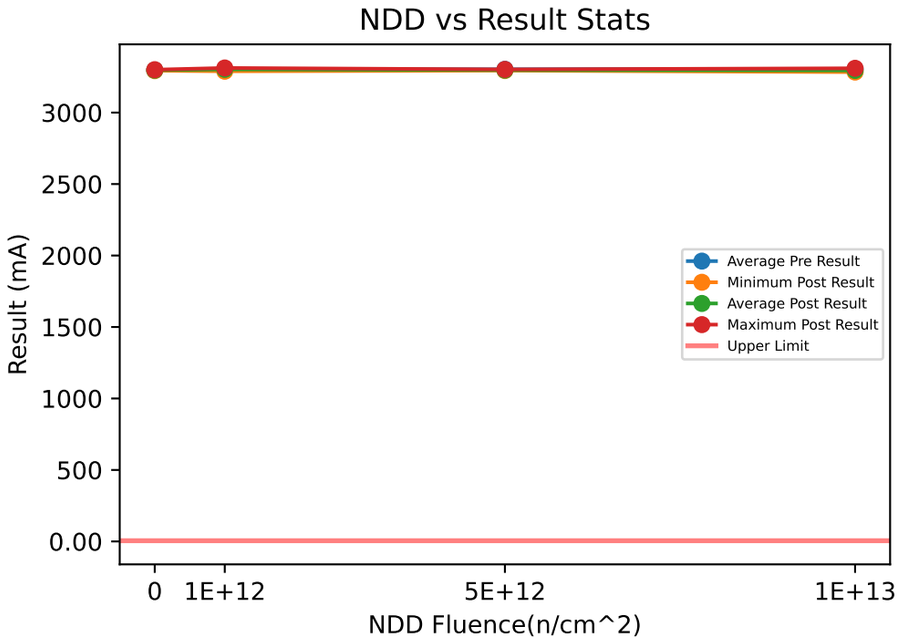
Test Results (Upper Limit = 23.0 (%))

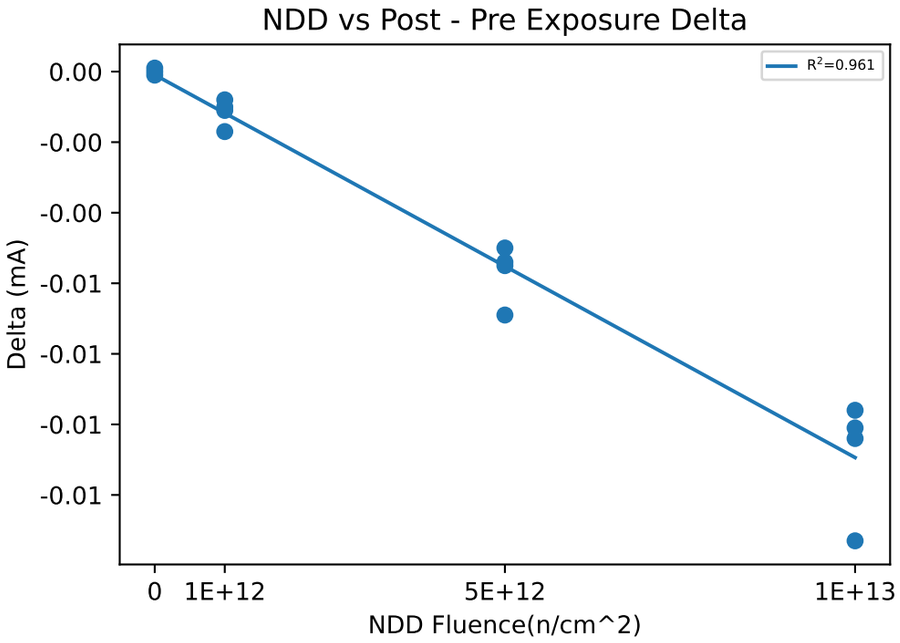
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.7846	2.779	-0.0056
304	1e+12	NDD Unbiased	2.8072	2.8032	-0.004
305	1e+12	NDD Unbiased	2.7998	2.7966	-0.0032
306	1e+12	NDD Unbiased	2.8485	2.8442	-0.0043
307	5e+12	NDD Unbiased	2.8182	2.8042	-0.014
308	5e+12	NDD Unbiased	2.8088	2.8002	-0.0086
309	5e+12	NDD Unbiased	2.8335	2.8254	-0.0081
310	5e+12	NDD Unbiased	2.8144	2.6414	-0.173
311	1e+13	NDD Unbiased	2.8042	2.7931	-0.0111
312	1e+13	NDD Unbiased	2.811	2.8044	-0.0066
313	1e+13	NDD Unbiased	2.8718	2.8615	-0.0103
314	1e+13	NDD Unbiased	2.8044	2.7972	-0.0072
315	0	Correlation	2.8076	2.7976	-0.01
316	0	Correlation	2.8109	2.8051	-0.0058
317	0	Correlation	2.7865	2.7841	-0.0024

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.7865	2.8017	2.8109	0.013238	2.7841	2.7956	2.8051	0.010642	-0.01	-0.0060667	-0.0024	0.003807
1e+12	2.7846	2.81	2.8485	0.027321	2.779	2.8057	2.8442	0.027593	-0.0056	-0.004275	-0.0032	0.00099791
5e+12	2.8088	2.8187	2.8335	0.01058	2.6414	2.7678	2.8254	0.084989	-0.173	-0.050925	-0.0081	0.081427
1e+13	2.8042	2.8228	2.8718	0.032786	2.7931	2.814	2.8615	0.031976	-0.0111	-0.0088	-0.0066	0.0022316

Device Test: 6.13; VLDO_I_MAX





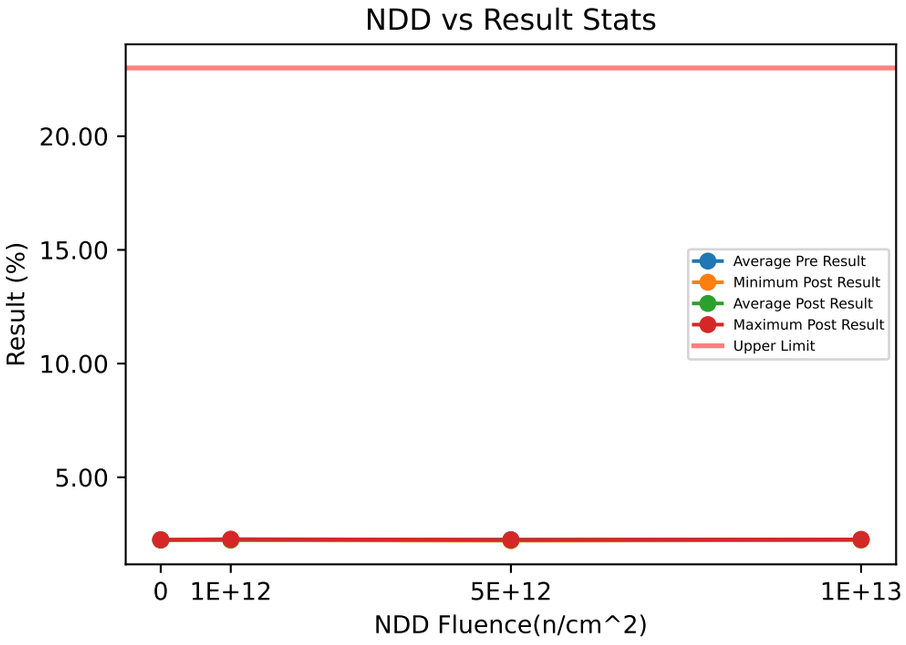
Test Results (Upper Limit = 5.0 (mA))

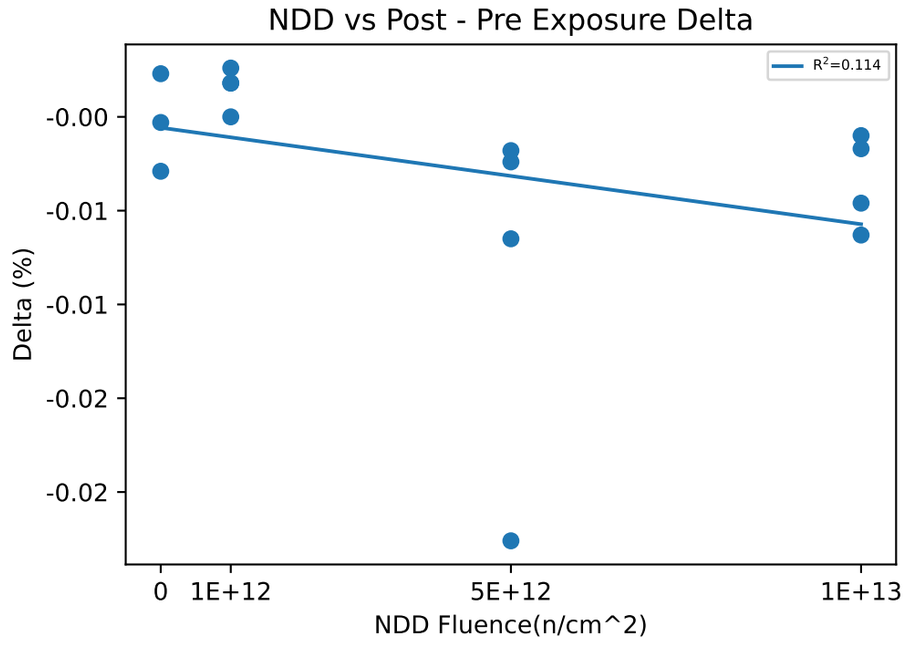
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	3306.9	3305.9	-0.001
304	1e+12	NDD Unbiased	3313.1	3312	-0.0011
305	1e+12	NDD Unbiased	3304.2	3302.5	-0.0017
306	1e+12	NDD Unbiased	3289.9	3289.1	-0.0008
307	5e+12	NDD Unbiased	3301.9	3296.5	-0.0054
308	5e+12	NDD Unbiased	3299.4	3293.9	-0.0055
309	5e+12	NDD Unbiased	3300.7	3295.7	-0.005
310	5e+12	NDD Unbiased	3308.9	3302	-0.0069
311	1e+13	NDD Unbiased	3319.9	3309.8	-0.0101
312	1e+13	NDD Unbiased	3292.9	3283.3	-0.0096
313	1e+13	NDD Unbiased	3296.9	3286.5	-0.0104
314	1e+13	NDD Unbiased	3313.5	3300.2	-0.0133
315	0	Correlation	3300.1	3300.1	0
316	0	Correlation	3293.2	3293.3	0.0001
317	0	Correlation	3296.6	3296.5	-0.0001

Test Statistics (mA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3293.2	3296.6	3300.1	3.4501	3293.3	3296.6	3300.1	3.402	-0.0001	-1.4803e-16	0.0001	0.0001
1e+12	3289.9	3303.5	3313.1	9.8178	3289.1	3302.4	3312	9.6834	-0.0017	-0.00115	-0.0008	0.0003873
5e+12	3299.4	3302.7	3308.9	4.2414	3293.9	3297	3302	3.4903	-0.0069	-0.0057	-0.005	0.00082865
1e+13	3292.9	3305.8	3319.9	12.958	3283.3	3294.9	3309.8	12.318	-0.0133	-0.01085	-0.0096	0.0016663

Device Test: 6.130; VOL_WDO_10MA





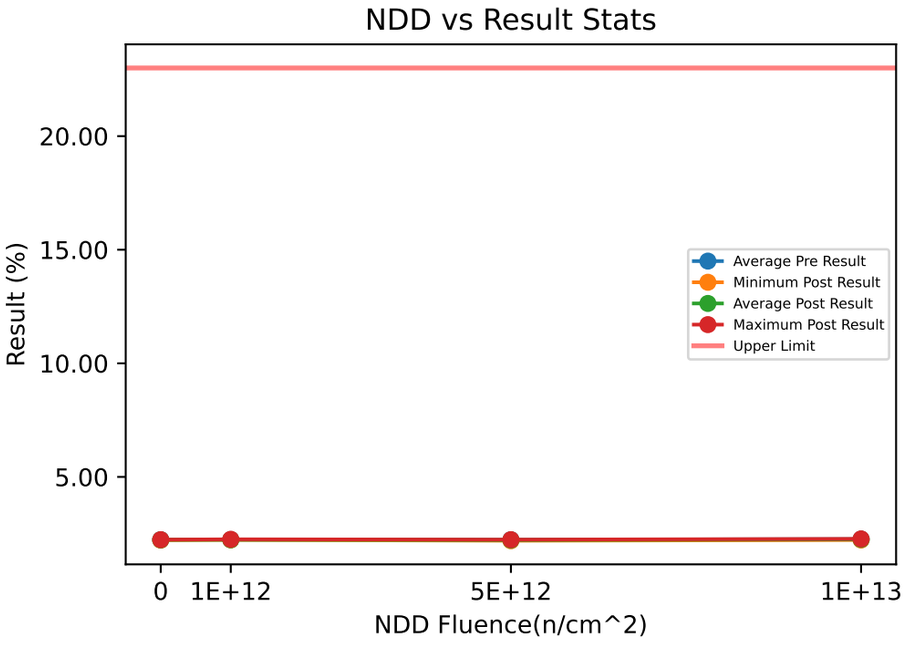
Test Results (Upper Limit = 23.0 (%))

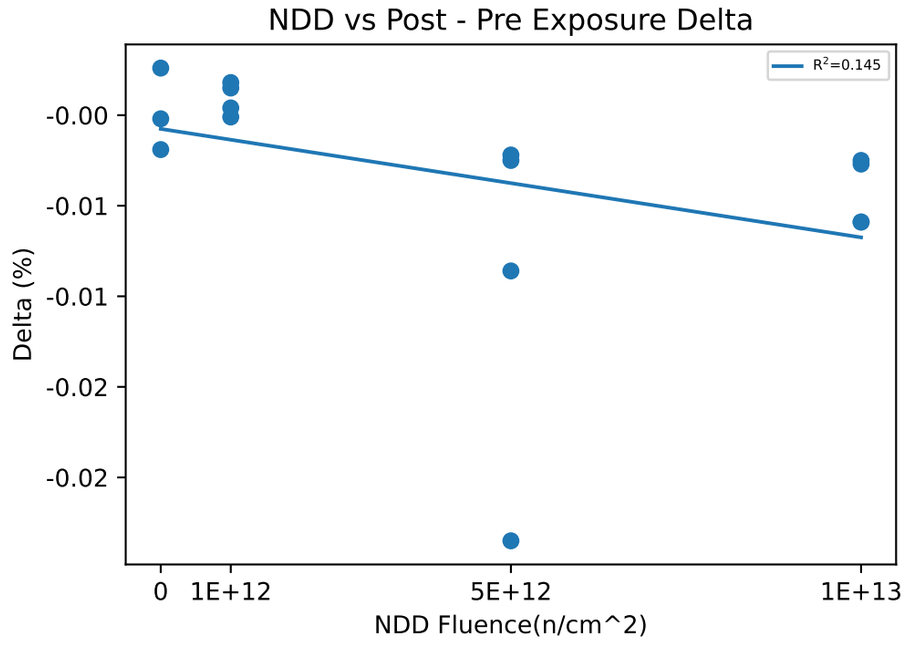
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.2364	2.2314	-0.005
304	1e+12	NDD Unbiased	2.2369	2.2337	-0.0032
305	1e+12	NDD Unbiased	2.2549	2.2525	-0.0024
306	1e+12	NDD Unbiased	2.2826	2.2794	-0.0032
307	5e+12	NDD Unbiased	2.2622	2.2507	-0.0115
308	5e+12	NDD Unbiased	2.2564	2.2496	-0.0068
309	5e+12	NDD Unbiased	2.2586	2.2512	-0.0074
310	5e+12	NDD Unbiased	2.2378	2.2102	-0.0276
311	1e+13	NDD Unbiased	2.2473	2.236	-0.0113
312	1e+13	NDD Unbiased	2.2652	2.2585	-0.0067
313	1e+13	NDD Unbiased	2.2751	2.2655	-0.0096
314	1e+13	NDD Unbiased	2.2694	2.2634	-0.006
315	0	Correlation	2.2499	2.242	-0.0079
316	0	Correlation	2.2541	2.2488	-0.0053
317	0	Correlation	2.2463	2.2436	-0.0027

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.2463	2.2501	2.2541	0.0039038	2.242	2.2448	2.2488	0.0035553	-0.0079	-0.0053	-0.0027	0.0026
1e+12	2.2364	2.2527	2.2826	0.021712	2.2314	2.2492	2.2794	0.022211	-0.005	-0.00345	-0.0024	0.0011
5e+12	2.2378	2.2538	2.2622	0.010899	2.2102	2.2404	2.2512	0.020161	-0.0276	-0.013325	-0.0068	0.0097432
1e+13	2.2473	2.2643	2.2751	0.012006	2.236	2.2559	2.2655	0.013554	-0.0113	-0.0084	-0.006	0.0024833

Device Test: 6.131; VOL_PWRGD_10MA





Test Results (Upper Limit = 23.0 (%))

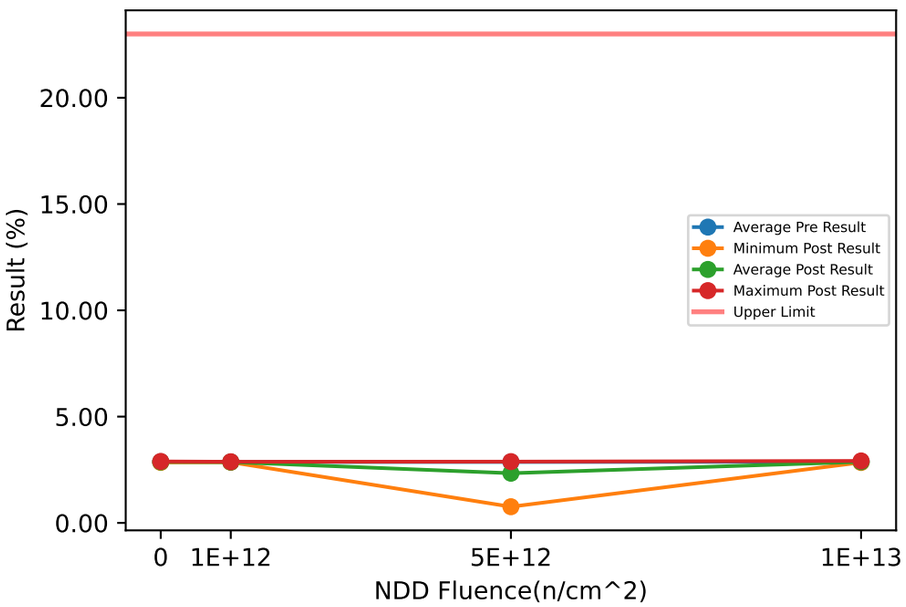
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.2335	2.2284	-0.0051
304	1e+12	NDD Unbiased	2.2371	2.2325	-0.0046
305	1e+12	NDD Unbiased	2.2317	2.2285	-0.0032
306	1e+12	NDD Unbiased	2.2571	2.2536	-0.0035
307	5e+12	NDD Unbiased	2.2421	2.2285	-0.0136
308	5e+12	NDD Unbiased	2.246	2.2385	-0.0075
309	5e+12	NDD Unbiased	2.2308	2.2236	-0.0072
310	5e+12	NDD Unbiased	2.22	2.1915	-0.0285
311	1e+13	NDD Unbiased	2.2471	2.2362	-0.0109
312	1e+13	NDD Unbiased	2.231	2.2235	-0.0075
313	1e+13	NDD Unbiased	2.2833	2.2724	-0.0109
314	1e+13	NDD Unbiased	2.2772	2.2695	-0.0077
315	0	Correlation	2.2234	2.2165	-0.0069
316	0	Correlation	2.2435	2.2383	-0.0052
317	0	Correlation	2.2388	2.2364	-0.0024

Test Statistics (%)

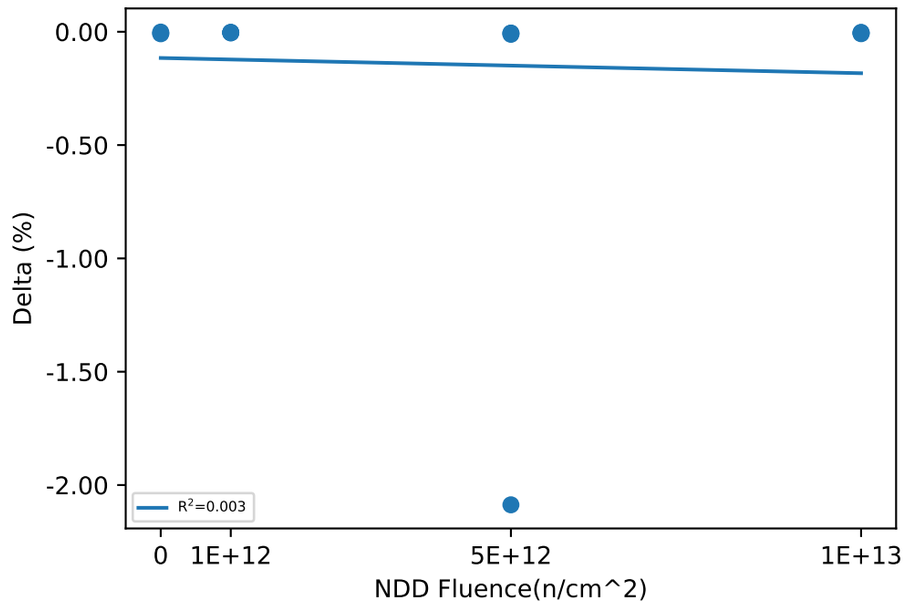
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.2234	2.2352	2.2435	0.010514	2.2165	2.2304	2.2383	0.012075	-0.0069	-0.0048333	-0.0024	0.0022723
1e+12	2.2317	2.2398	2.2571	0.011717	2.2284	2.2357	2.2536	0.012052	-0.0051	-0.0041	-0.0032	0.00089815
5e+12	2.22	2.2347	2.246	0.011744	2.1915	2.2205	2.2385	0.020319	-0.0285	-0.0142	-0.0072	0.009979
1e+13	2.231	2.2597	2.2833	0.024804	2.2235	2.2504	2.2724	0.024318	-0.0109	-0.00925	-0.0075	0.001907

Device Test: 6.132; VOL_RESET_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



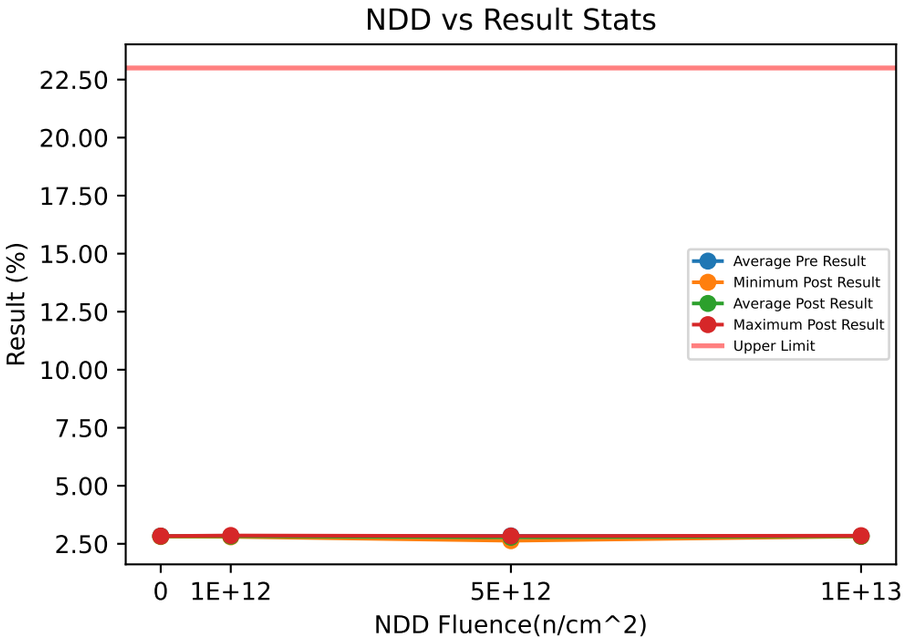
Test Results (Upper Limit = 23.0 (%))

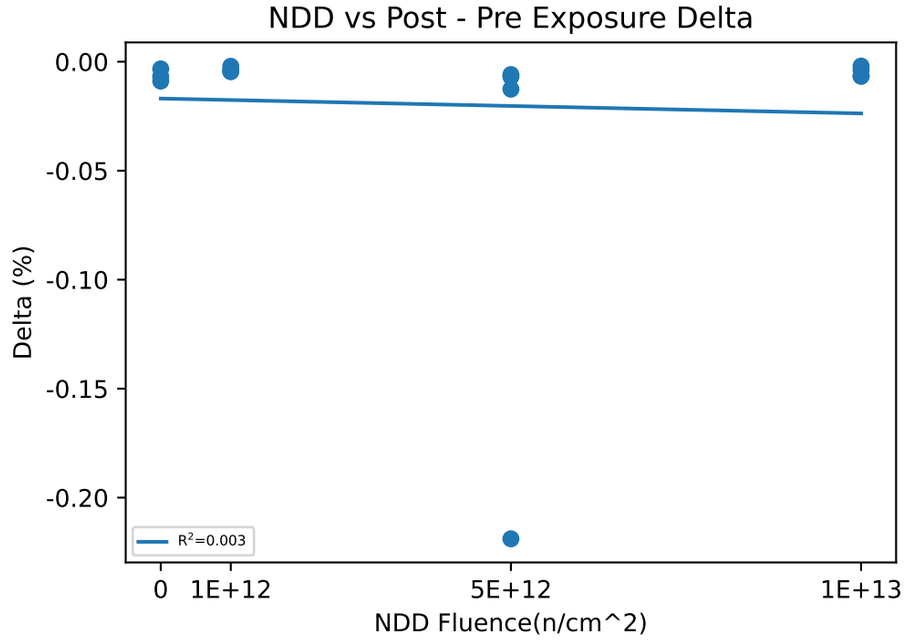
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.8638	2.8595	-0.0043
304	1e+12	NDD Unbiased	2.8617	2.8568	-0.0049
305	1e+12	NDD Unbiased	2.879	2.8765	-0.0025
306	1e+12	NDD Unbiased	2.8586	2.8553	-0.0033
307	5e+12	NDD Unbiased	2.8683	2.857	-0.0113
308	5e+12	NDD Unbiased	2.8893	2.8828	-0.0065
309	5e+12	NDD Unbiased	2.8536	2.8478	-0.0058
310	5e+12	NDD Unbiased	2.8486	0.7613	-2.0873
311	1e+13	NDD Unbiased	2.8738	2.8653	-0.0085
312	1e+13	NDD Unbiased	2.8462	2.8428	-0.0034
313	1e+13	NDD Unbiased	2.923	2.9158	-0.0072
314	1e+13	NDD Unbiased	2.8644	2.8612	-0.0032
315	0	Correlation	2.855	2.8462	-0.0088
316	0	Correlation	2.8984	2.8913	-0.0071
317	0	Correlation	2.8673	2.8659	-0.0014

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.855	2.8736	2.8984	0.022368	2.8462	2.8678	2.8913	0.02261	-0.0088	-0.0057667	-0.0014	0.003876
1e+12	2.8586	2.8658	2.879	0.0090717	2.8553	2.862	2.8765	0.0098052	-0.0049	-0.00375	-0.0025	0.001063
5e+12	2.8486	2.8649	2.8893	0.01826	0.7613	2.3372	2.8828	1.0507	-2.0873	-0.52772	-0.0058	1.0397
1e+13	2.8462	2.8769	2.923	0.032831	2.8428	2.8713	2.9158	0.031254	-0.0085	-0.005575	-0.0032	0.0026813

Device Test: 6.133; VOL_RESET_10MA





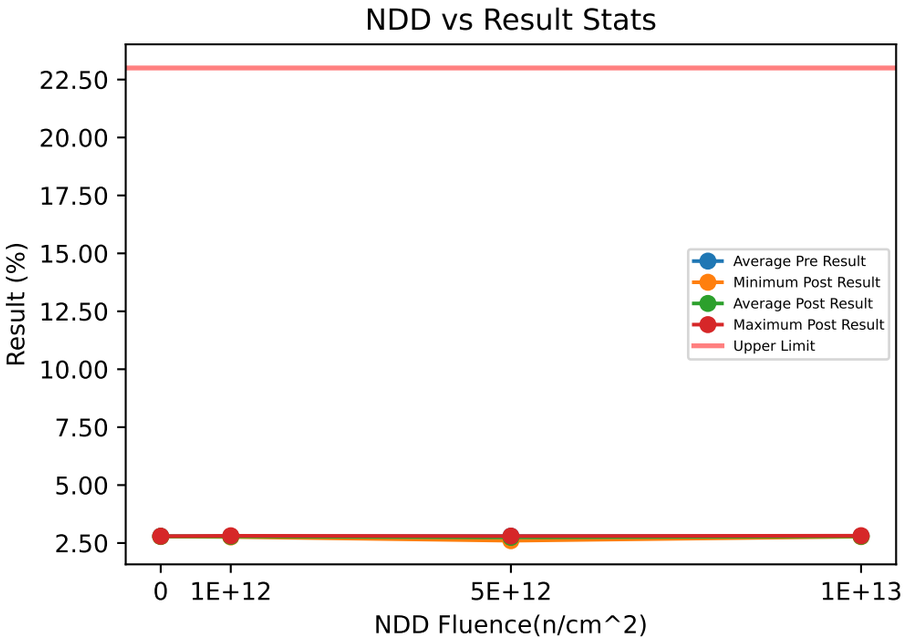
Test Results (Upper Limit = 23.0 (%))

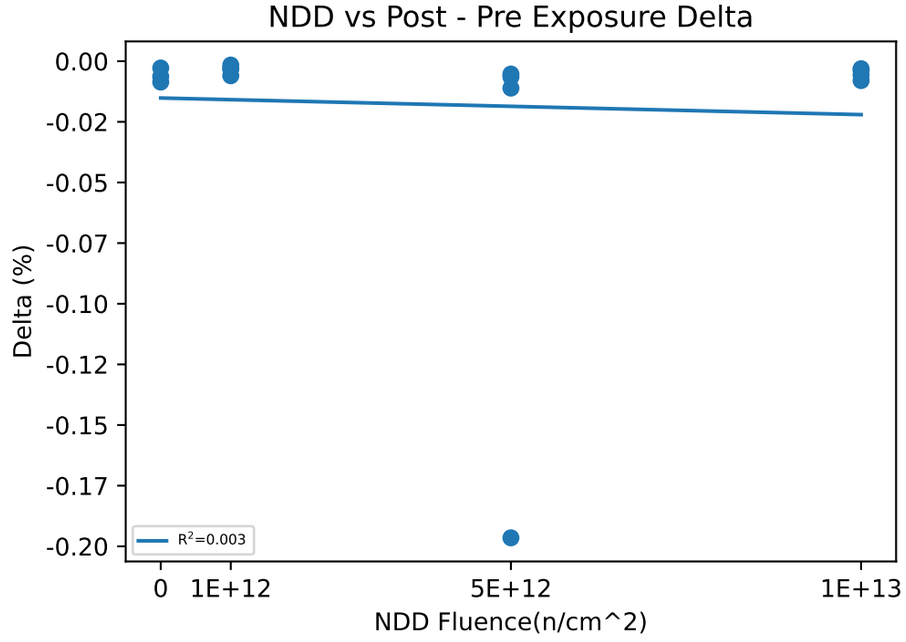
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.8048	2.8007	-0.0041
304	1e+12	NDD Unbiased	2.8275	2.8229	-0.0046
305	1e+12	NDD Unbiased	2.8222	2.8201	-0.0021
306	1e+12	NDD Unbiased	2.862	2.8579	-0.0041
307	5e+12	NDD Unbiased	2.8311	2.8185	-0.0126
308	5e+12	NDD Unbiased	2.8385	2.8326	-0.0059
309	5e+12	NDD Unbiased	2.8422	2.8353	-0.0069
310	5e+12	NDD Unbiased	2.8517	2.6328	-0.2189
311	1e+13	NDD Unbiased	2.8256	2.8189	-0.0067
312	1e+13	NDD Unbiased	2.8194	2.8174	-0.002
313	1e+13	NDD Unbiased	2.8565	2.85	-0.0065
314	1e+13	NDD Unbiased	2.8279	2.8242	-0.0037
315	0	Correlation	2.8206	2.8117	-0.0089
316	0	Correlation	2.8406	2.8338	-0.0068
317	0	Correlation	2.8373	2.834	-0.0033

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.8206	2.8328	2.8406	0.010722	2.8117	2.8265	2.834	0.012818	-0.0089	-0.0063333	-0.0033	0.002829
1e+12	2.8048	2.8291	2.862	0.023966	2.8007	2.8254	2.8579	0.02381	-0.0046	-0.003725	-0.0021	0.0011087
5e+12	2.8311	2.8409	2.8517	0.008566	2.6328	2.7798	2.8353	0.098276	-0.2189	-0.061075	-0.0059	0.10526
1e+13	2.8194	2.8323	2.8565	0.016495	2.8174	2.8276	2.85	0.015199	-0.0067	-0.004725	-0.002	0.002275

Device Test: 6.134; VOL_RESET_10MA





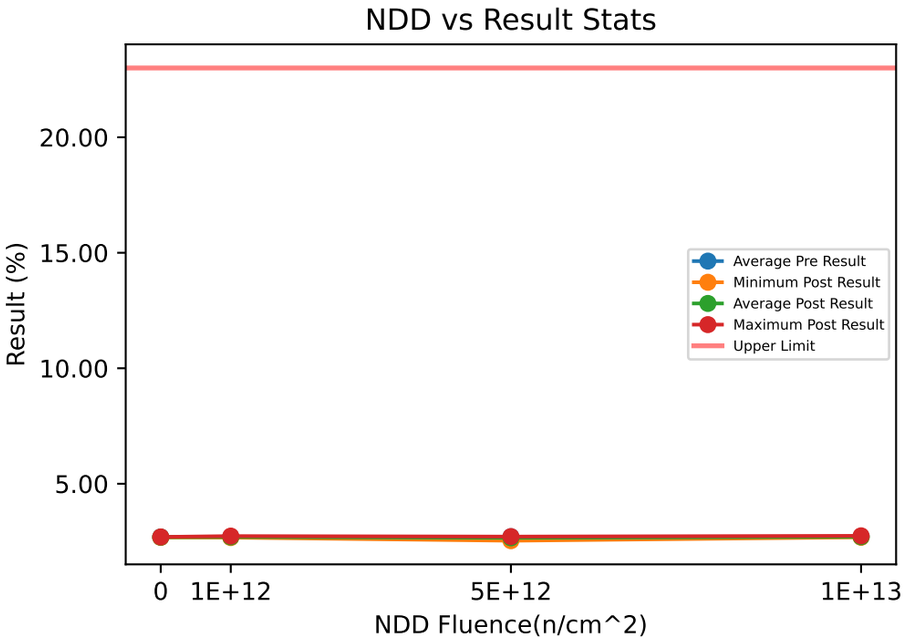
Test Results (Upper Limit = 23.0 (%))

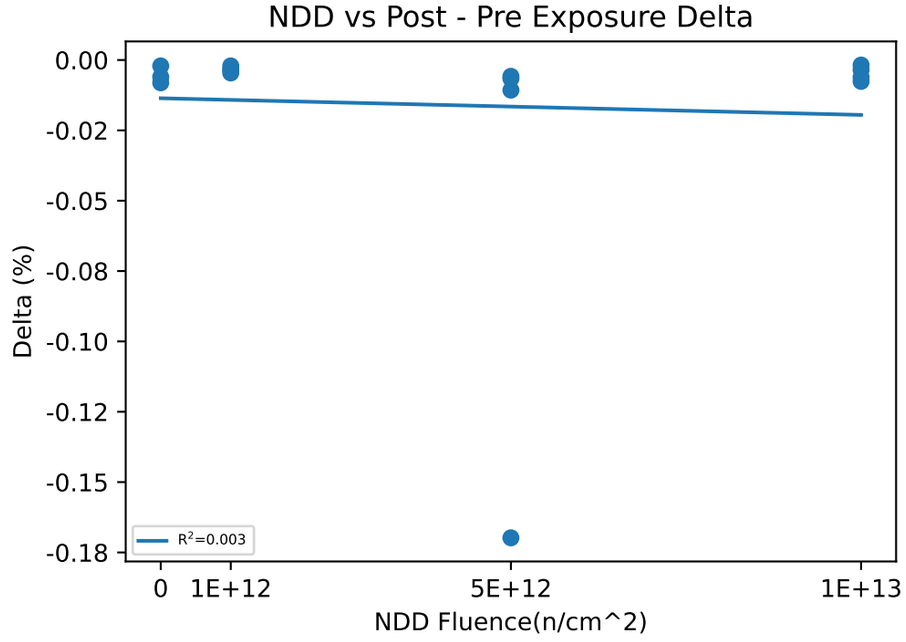
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.7676	2.7616	-0.006
304	1e+12	NDD Unbiased	2.7738	2.7707	-0.0031
305	1e+12	NDD Unbiased	2.7894	2.7878	-0.0016
306	1e+12	NDD Unbiased	2.8158	2.8127	-0.0031
307	5e+12	NDD Unbiased	2.7901	2.779	-0.0111
308	5e+12	NDD Unbiased	2.7976	2.7911	-0.0065
309	5e+12	NDD Unbiased	2.8054	2.8001	-0.0053
310	5e+12	NDD Unbiased	2.796	2.5995	-0.1965
311	1e+13	NDD Unbiased	2.786	2.778	-0.008
312	1e+13	NDD Unbiased	2.7869	2.7831	-0.0038
313	1e+13	NDD Unbiased	2.8221	2.8164	-0.0057
314	1e+13	NDD Unbiased	2.779	2.7759	-0.0031
315	0	Correlation	2.7903	2.7817	-0.0086
316	0	Correlation	2.8024	2.7961	-0.0063
317	0	Correlation	2.7823	2.7795	-0.0028

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.7823	2.7917	2.8024	0.010119	2.7795	2.7858	2.7961	0.0090163	-0.0086	-0.0059	-0.0028	0.0029206
1e+12	2.7676	2.7866	2.8158	0.021489	2.7616	2.7832	2.8127	0.022466	-0.006	-0.00345	-0.0016	0.0018412
5e+12	2.7901	2.7973	2.8054	0.0063042	2.5995	2.7424	2.8001	0.095675	-0.1965	-0.05485	-0.0053	0.094466
1e+13	2.779	2.7935	2.8221	0.019391	2.7759	2.7883	2.8164	0.018943	-0.008	-0.00515	-0.0031	0.0021947

Device Test: 6.135; VOL_RESET_10MA





Test Results (Upper Limit = 23.0 (%))

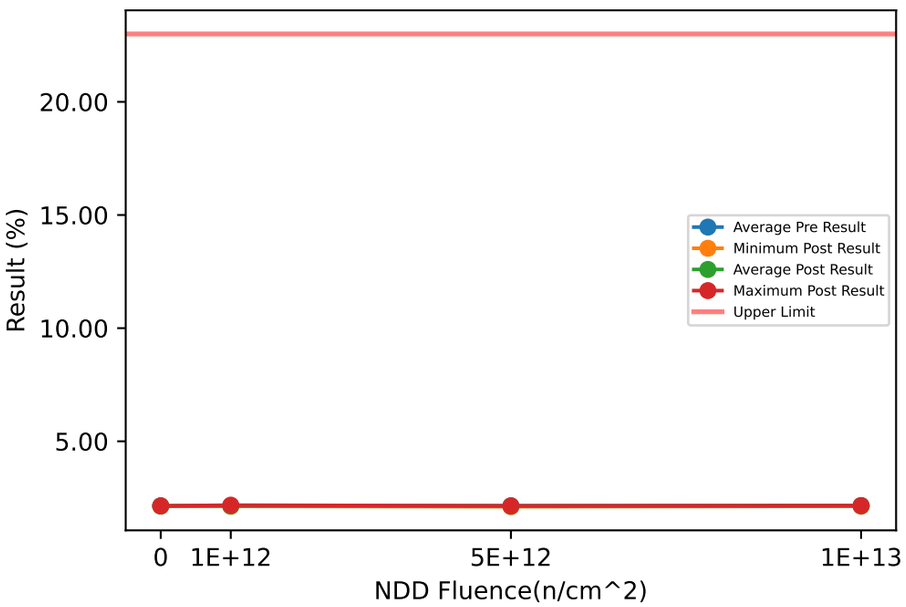
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.6744	2.6698	-0.0046
304	1e+12	NDD Unbiased	2.694	2.6907	-0.0033
305	1e+12	NDD Unbiased	2.6904	2.6883	-0.0021
306	1e+12	NDD Unbiased	2.738	2.7344	-0.0036
307	5e+12	NDD Unbiased	2.7016	2.6909	-0.0107
308	5e+12	NDD Unbiased	2.6991	2.6925	-0.0066
309	5e+12	NDD Unbiased	2.7183	2.7125	-0.0058
310	5e+12	NDD Unbiased	2.7035	2.5337	-0.1698
311	1e+13	NDD Unbiased	2.6903	2.6827	-0.0076
312	1e+13	NDD Unbiased	2.7005	2.697	-0.0035
313	1e+13	NDD Unbiased	2.7518	2.7457	-0.0061
314	1e+13	NDD Unbiased	2.688	2.6862	-0.0018
315	0	Correlation	2.6974	2.6893	-0.0081
316	0	Correlation	2.7036	2.6976	-0.006
317	0	Correlation	2.6779	2.6758	-0.0021

Test Statistics (%)

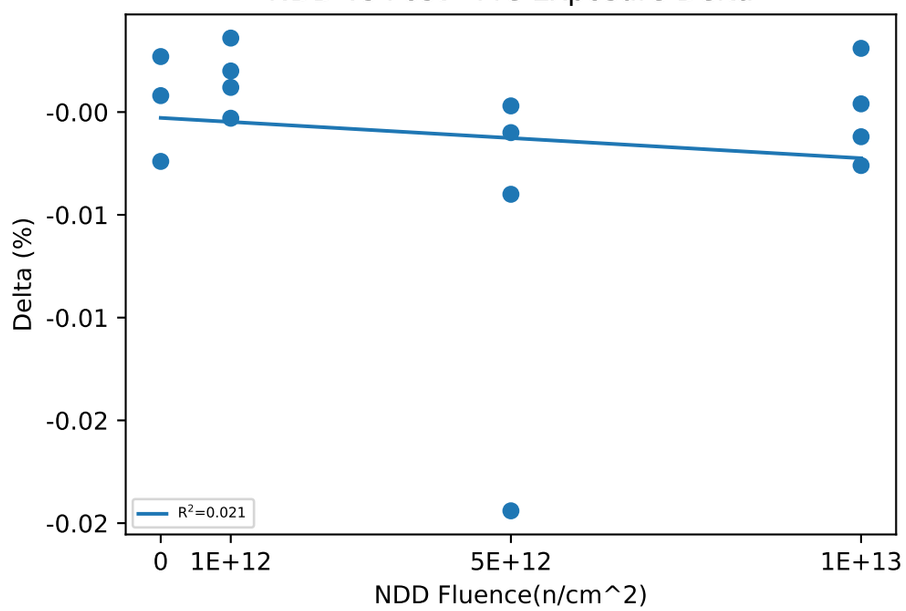
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6779	2.693	2.7036	0.013411	2.6758	2.6876	2.6976	0.011003	-0.0081	-0.0054	-0.0021	0.0030447
1e+12	2.6744	2.6992	2.738	0.027233	2.6698	2.6958	2.7344	0.027375	-0.0046	-0.0034	-0.0021	0.0010296
5e+12	2.6991	2.7056	2.7183	0.00864	2.5337	2.6574	2.7125	0.08305	-0.1698	-0.048225	-0.0058	0.081078
1e+13	2.688	2.7077	2.7518	0.02993	2.6827	2.7029	2.7457	0.029175	-0.0076	-0.00475	-0.0018	0.0025955

Device Test: 6.136; VOL_WDO_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



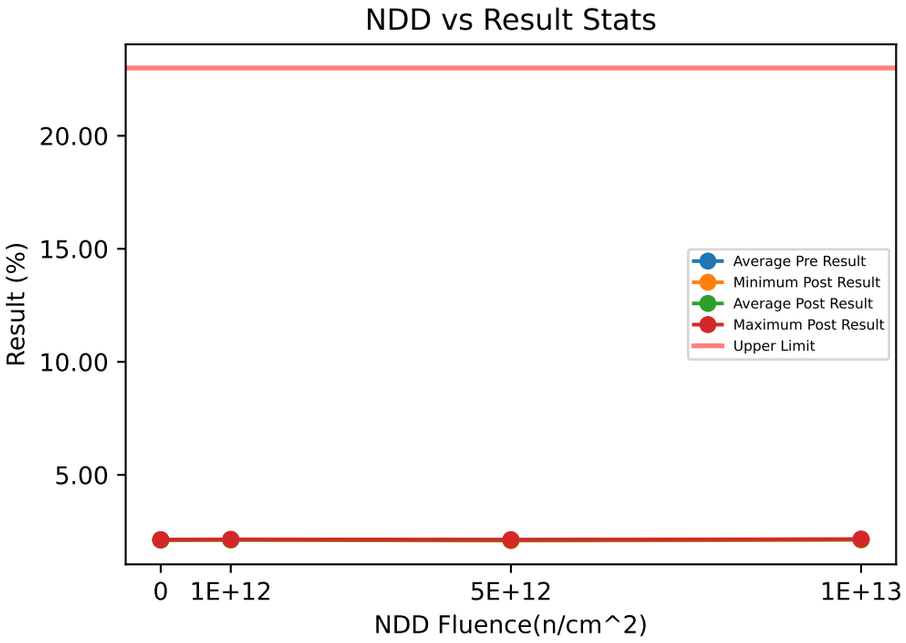
Test Results (Upper Limit = 23.0 (%))

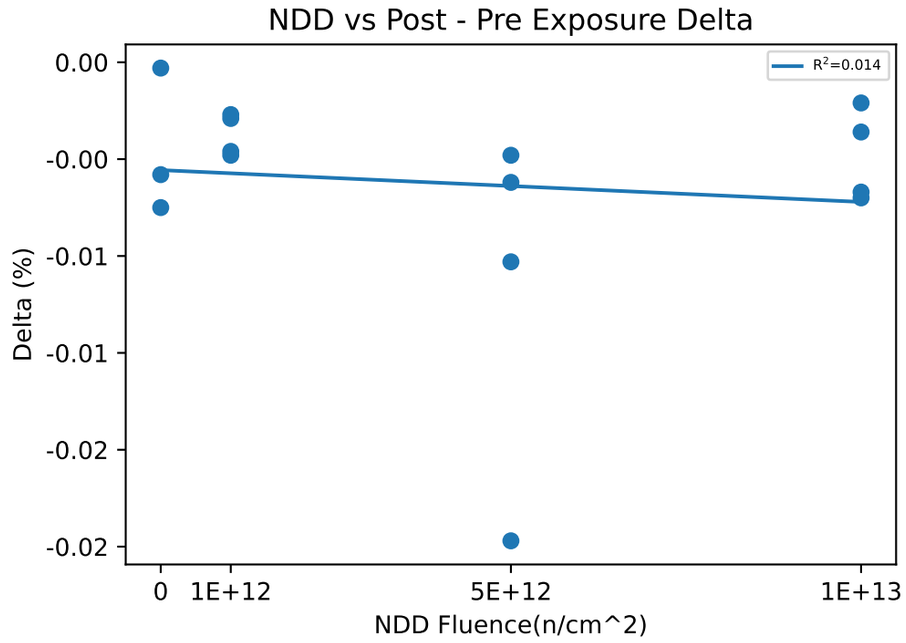
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.1311	2.1258	-0.0053
304	1e+12	NDD Unbiased	2.1305	2.1267	-0.0038
305	1e+12	NDD Unbiased	2.1479	2.1449	-0.003
306	1e+12	NDD Unbiased	2.1784	2.177	-0.0014
307	5e+12	NDD Unbiased	2.1551	2.1461	-0.009
308	5e+12	NDD Unbiased	2.1507	2.1447	-0.006
309	5e+12	NDD Unbiased	2.1521	2.1474	-0.0047
310	5e+12	NDD Unbiased	2.1332	2.1088	-0.0244
311	1e+13	NDD Unbiased	2.1367	2.1291	-0.0076
312	1e+13	NDD Unbiased	2.1597	2.1551	-0.0046
313	1e+13	NDD Unbiased	2.1652	2.159	-0.0062
314	1e+13	NDD Unbiased	2.1563	2.1544	-0.0019
315	0	Correlation	2.1462	2.1388	-0.0074
316	0	Correlation	2.149	2.1448	-0.0042
317	0	Correlation	2.1424	2.1401	-0.0023

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.1424	2.1459	2.149	0.0033126	2.1388	2.1412	2.1448	0.0031565	-0.0074	-0.0046333	-0.0023	0.0025775
1e+12	2.1305	2.147	2.1784	0.022449	2.1258	2.1436	2.177	0.023942	-0.0053	-0.003375	-0.0014	0.0016256
5e+12	2.1332	2.1478	2.1551	0.0098885	2.1088	2.1368	2.1474	0.018666	-0.0244	-0.011025	-0.0047	0.0090967
1e+13	2.1367	2.1545	2.1652	0.012404	2.1291	2.1494	2.159	0.013684	-0.0076	-0.005075	-0.0019	0.0024459

Device Test: 6.137; VOL_PWRGD_10MA





Test Results (Upper Limit = 23.0 (%))

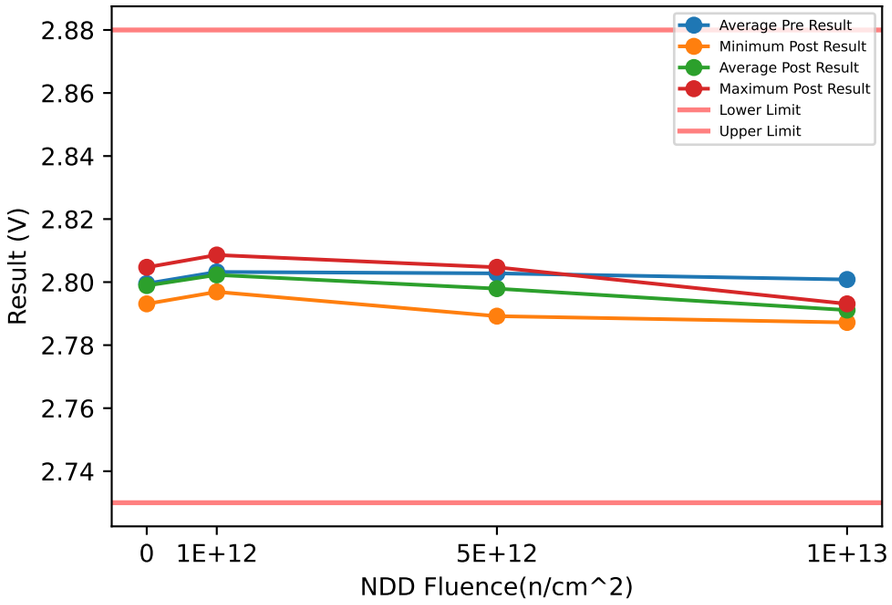
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.1273	2.1225	-0.0048
304	1e+12	NDD Unbiased	2.1279	2.1233	-0.0046
305	1e+12	NDD Unbiased	2.1238	2.1211	-0.0027
306	1e+12	NDD Unbiased	2.154	2.1511	-0.0029
307	5e+12	NDD Unbiased	2.1333	2.123	-0.0103
308	5e+12	NDD Unbiased	2.1367	2.1319	-0.0048
309	5e+12	NDD Unbiased	2.1247	2.1185	-0.0062
310	5e+12	NDD Unbiased	2.1129	2.0882	-0.0247
311	1e+13	NDD Unbiased	2.1322	2.1252	-0.007
312	1e+13	NDD Unbiased	2.1243	2.1222	-0.0021
313	1e+13	NDD Unbiased	2.1685	2.1618	-0.0067
314	1e+13	NDD Unbiased	2.1593	2.1557	-0.0036
315	0	Correlation	2.1192	2.1117	-0.0075
316	0	Correlation	2.1368	2.131	-0.0058
317	0	Correlation	2.1324	2.1321	-0.0003

Test Statistics (%)

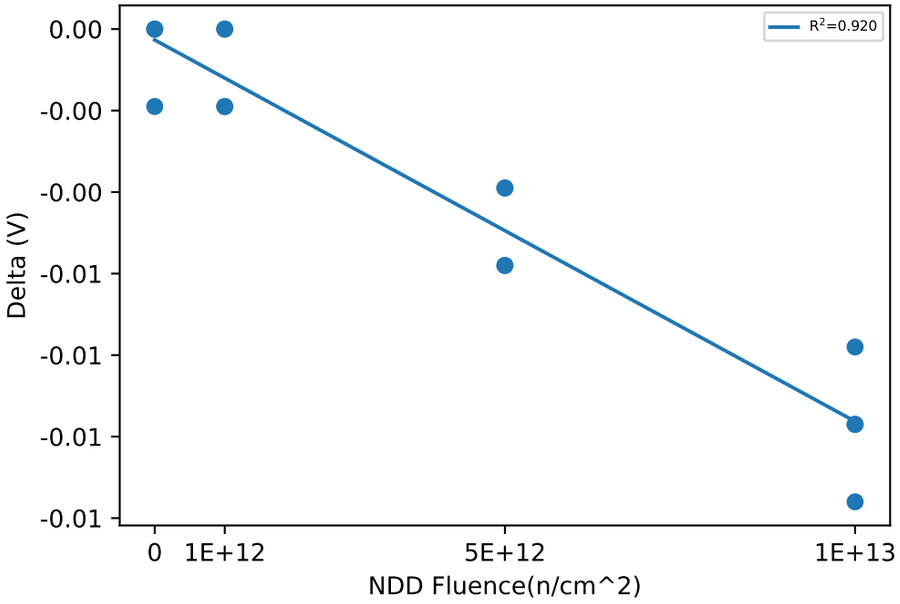
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.1192	2.1295	2.1368	0.0091593	2.1117	2.1249	2.1321	0.011474	-0.0075	-0.0045333	-0.0003	0.0037634
1e+12	2.1238	2.1332	2.154	0.013951	2.1211	2.1295	2.1511	0.014429	-0.0048	-0.00375	-0.0027	0.001103
5e+12	2.1129	2.1269	2.1367	0.010612	2.0882	2.1154	2.1319	0.018969	-0.0247	-0.0115	-0.0048	0.0091042
1e+13	2.1243	2.1461	2.1685	0.02117	2.1222	2.1412	2.1618	0.020426	-0.007	-0.00485	-0.0021	0.0023923

Device Test: 6.138; UVLO_RISE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 2.73, Upper Limit = 2.88 (V))

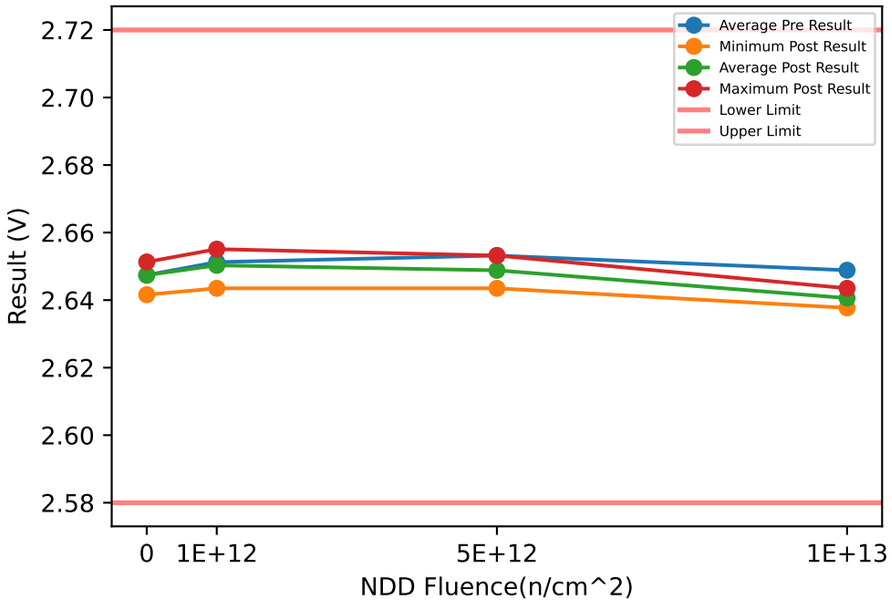
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.8105	2.8086	-0.0019
304	1e+12	NDD Unbiased	2.8047	2.8028	-0.0019
305	1e+12	NDD Unbiased	2.7969	2.7969	0
306	1e+12	NDD Unbiased	2.8008	2.8008	0
307	5e+12	NDD Unbiased	2.8105	2.8047	-0.0058
308	5e+12	NDD Unbiased	2.795	2.7892	-0.0058
309	5e+12	NDD Unbiased	2.8028	2.7989	-0.0039
310	5e+12	NDD Unbiased	2.8028	2.7989	-0.0039
311	1e+13	NDD Unbiased	2.8047	2.7931	-0.0116
312	1e+13	NDD Unbiased	2.7969	2.7872	-0.0097
313	1e+13	NDD Unbiased	2.7989	2.7911	-0.0078
314	1e+13	NDD Unbiased	2.8028	2.7931	-0.0097
315	0	Correlation	2.7989	2.7989	0
316	0	Correlation	2.8047	2.8047	0
317	0	Correlation	2.795	2.7931	-0.0019

Test Statistics (V)

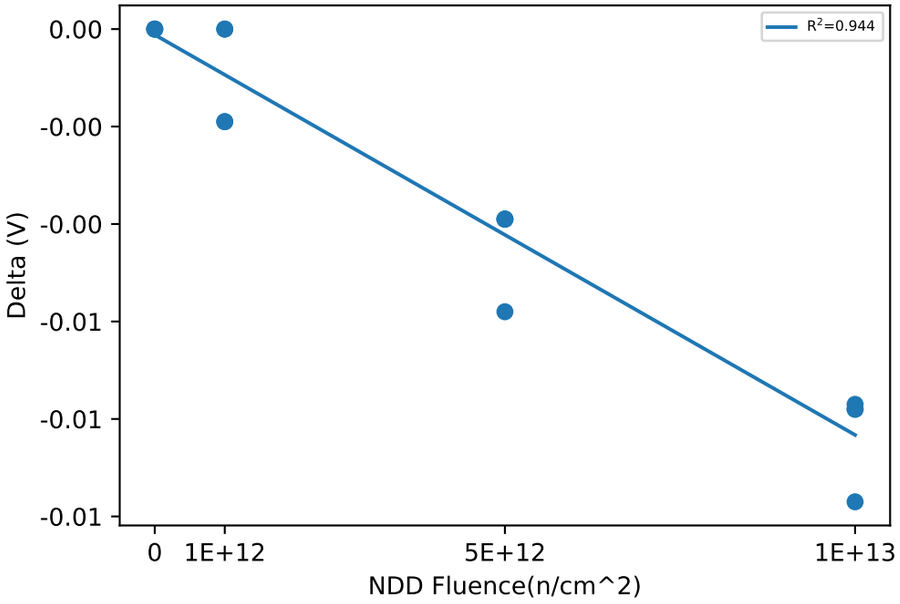
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.795	2.7995	2.8047	0.0048809	2.7931	2.7989	2.8047	0.0058	-0.0019	-0.00063333	0	0.001097
1e+12	2.7969	2.8032	2.8105	0.0058019	2.7969	2.8023	2.8086	0.0048767	-0.0019	-0.00095	0	0.001097
5e+12	2.795	2.8028	2.8105	0.0063279	2.7892	2.7979	2.8047	0.0064272	-0.0058	-0.00485	-0.0039	0.001097
1e+13	2.7969	2.8008	2.8047	0.0035603	2.7872	2.7911	2.7931	0.0027813	-0.0116	-0.0097	-0.0078	0.0015513

Device Test: 6.139; UVLO_FALL

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 2.58, Upper Limit = 2.72 (V))

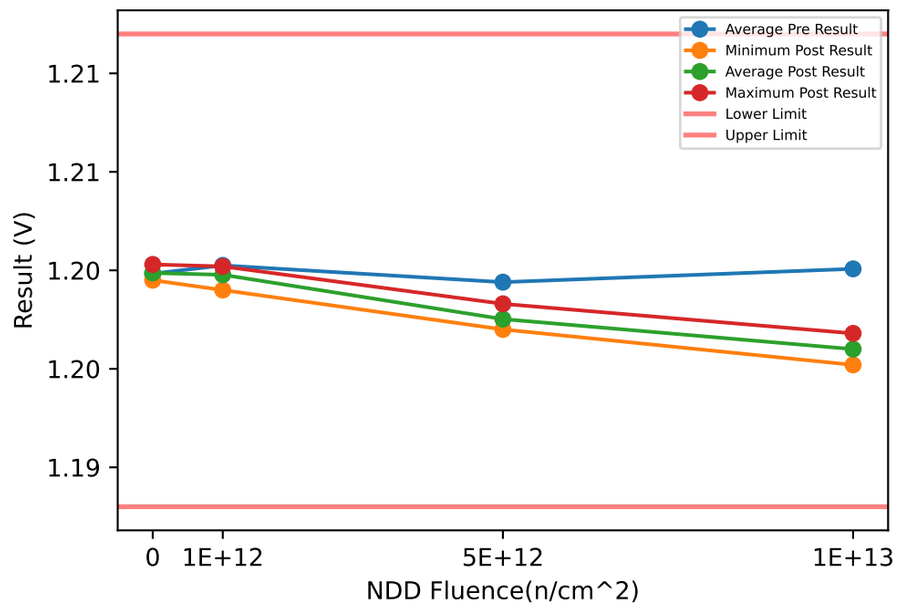
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.6551	2.6551	0
304	1e+12	NDD Unbiased	2.6513	2.6513	0
305	1e+12	NDD Unbiased	2.6454	2.6435	-0.0019
306	1e+12	NDD Unbiased	2.6532	2.6513	-0.0019
307	5e+12	NDD Unbiased	2.659	2.6532	-0.0058
308	5e+12	NDD Unbiased	2.6474	2.6435	-0.0039
309	5e+12	NDD Unbiased	2.6532	2.6493	-0.0039
310	5e+12	NDD Unbiased	2.6532	2.6493	-0.0039
311	1e+13	NDD Unbiased	2.6474	2.6377	-0.0097
312	1e+13	NDD Unbiased	2.6474	2.6396	-0.0078
313	1e+13	NDD Unbiased	2.6493	2.6416	-0.0077
314	1e+13	NDD Unbiased	2.6513	2.6435	-0.0078
315	0	Correlation	2.6513	2.6513	0
316	0	Correlation	2.6493	2.6493	0
317	0	Correlation	2.6416	2.6416	0

Test Statistics (V)

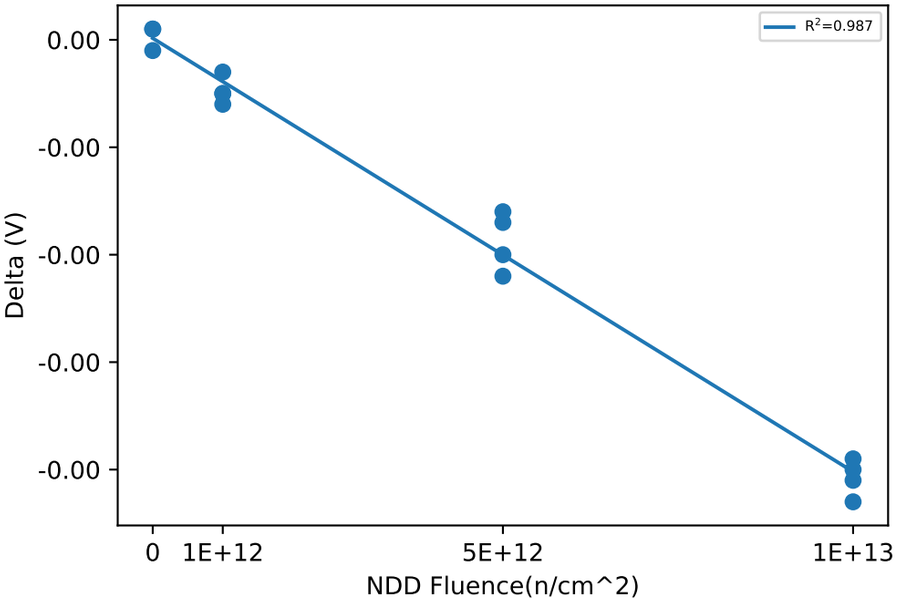
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6416	2.6474	2.6513	0.0051215	2.6416	2.6474	2.6513	0.0051215	0	0	0	0
1e+12	2.6454	2.6513	2.6551	0.0041972	2.6435	2.6503	2.6551	0.0048744	-0.0019	-0.00095	0	0.001097
5e+12	2.6474	2.6532	2.659	0.0047357	2.6435	2.6488	2.6532	0.0039978	-0.0058	-0.004375	-0.0039	0.00095
1e+13	2.6474	2.6489	2.6513	0.0018628	2.6377	2.6406	2.6435	0.0025047	-0.0097	-0.00825	-0.0077	0.00096782

Device Test: 6.14; REFCAP

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

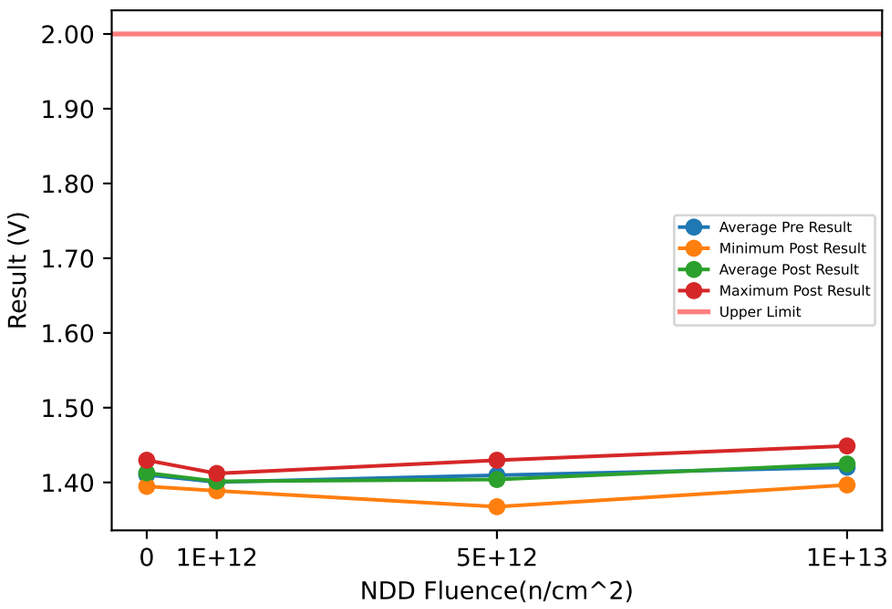
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.2005	1.2002	-0.0003
304	1e+12	NDD Unbiased	1.2007	1.2002	-0.0005
305	1e+12	NDD Unbiased	1.2003	1.1997	-0.0006
306	1e+12	NDD Unbiased	1.1995	1.199	-0.0005
307	5e+12	NDD Unbiased	1.2	1.1983	-0.0017
308	5e+12	NDD Unbiased	1.199	1.197	-0.002
309	5e+12	NDD Unbiased	1.1991	1.1975	-0.0016
310	5e+12	NDD Unbiased	1.1995	1.1973	-0.0022
311	1e+13	NDD Unbiased	1.2009	1.1968	-0.0041
312	1e+13	NDD Unbiased	1.1991	1.1952	-0.0039
313	1e+13	NDD Unbiased	1.2003	1.1963	-0.004
314	1e+13	NDD Unbiased	1.2	1.1957	-0.0043
315	0	Correlation	1.2002	1.2003	0.0001
316	0	Correlation	1.1994	1.1995	0.0001
317	0	Correlation	1.1999	1.1998	-0.0001

Test Statistics (V)

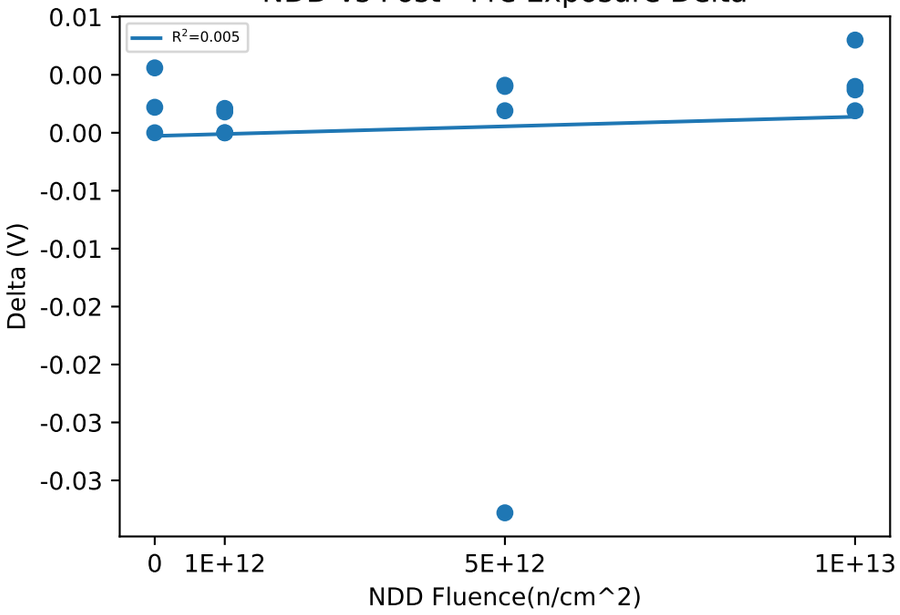
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1994	1.1998	1.2002	0.00040415	1.1995	1.1999	1.2003	0.00040415	-0.0001	3.3333e-05	0.0001	0.00011547
1e+12	1.1995	1.2003	1.2007	0.00052599	1.199	1.1998	1.2002	0.00056789	-0.0006	-0.000475	-0.0003	0.00012583
5e+12	1.199	1.1994	1.2	0.00045461	1.197	1.1975	1.1983	0.00055603	-0.0022	-0.001875	-0.0016	0.00027538
1e+13	1.1991	1.2001	1.2009	0.00075	1.1952	1.196	1.1968	0.00069761	-0.0043	-0.004075	-0.0039	0.00017078

Device Test: 6.140; VIN_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.0 (V))

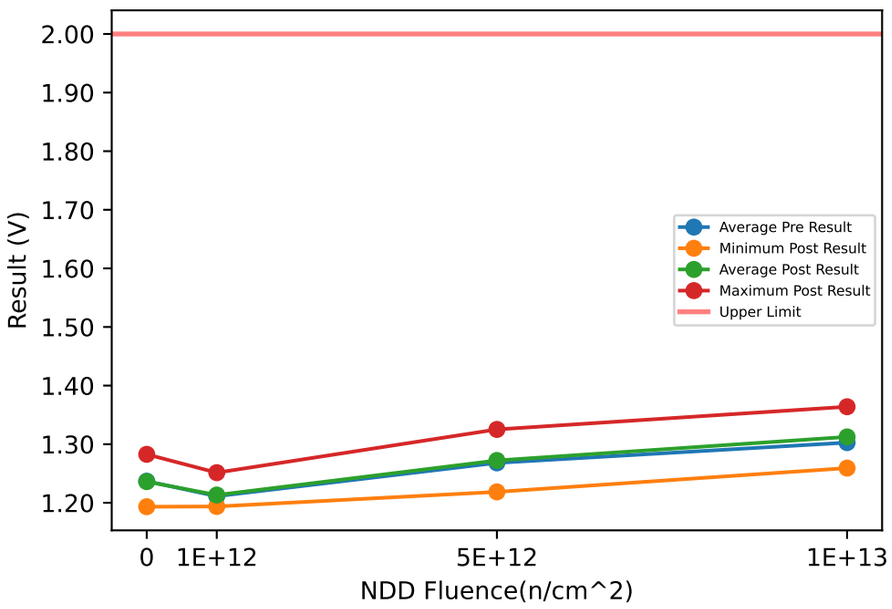
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.3966	1.3966	0
304	1e+12	NDD Unbiased	1.4102	1.412	0.0018
305	1e+12	NDD Unbiased	1.3888	1.3888	0
306	1e+12	NDD Unbiased	1.4062	1.4083	0.0021
307	5e+12	NDD Unbiased	1.4043	1.4083	0.004
308	5e+12	NDD Unbiased	1.4083	1.4102	0.0019
309	5e+12	NDD Unbiased	1.4256	1.4297	0.0041
310	5e+12	NDD Unbiased	1.4003	1.3675	-0.0328
311	1e+13	NDD Unbiased	1.4451	1.4488	0.0037
312	1e+13	NDD Unbiased	1.3947	1.3966	0.0019
313	1e+13	NDD Unbiased	1.4275	1.4315	0.004
314	1e+13	NDD Unbiased	1.4139	1.4219	0.008
315	0	Correlation	1.4083	1.4139	0.0056
316	0	Correlation	1.4275	1.4297	0.0022
317	0	Correlation	1.3947	1.3947	0

Test Statistics (V)

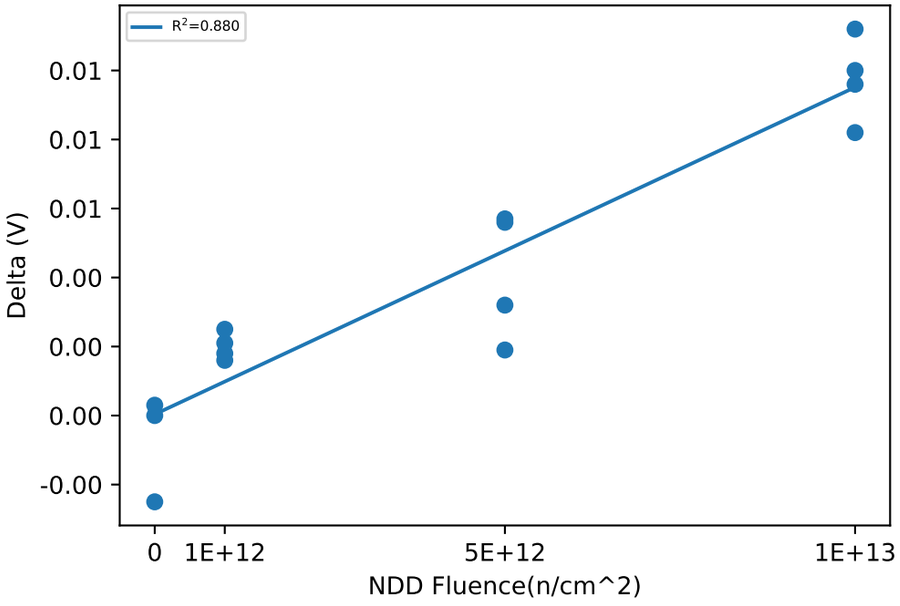
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.3947	1.4102	1.4275	0.016479	1.3947	1.4128	1.4297	0.017528	0	0.0026	0.0056	0.0028213
1e+12	1.3888	1.4004	1.4102	0.0096379	1.3888	1.4014	1.412	0.010673	0	0.000975	0.0021	0.0011325
5e+12	1.4003	1.4096	1.4256	0.01114	1.3675	1.4039	1.4297	0.026138	-0.0328	-0.0057	0.0041	0.018095
1e+13	1.3947	1.4203	1.4451	0.021317	1.3966	1.4247	1.4488	0.021791	0.0019	0.0044	0.008	0.0025729

Device Test: 6.141; VIN_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.0 (V))

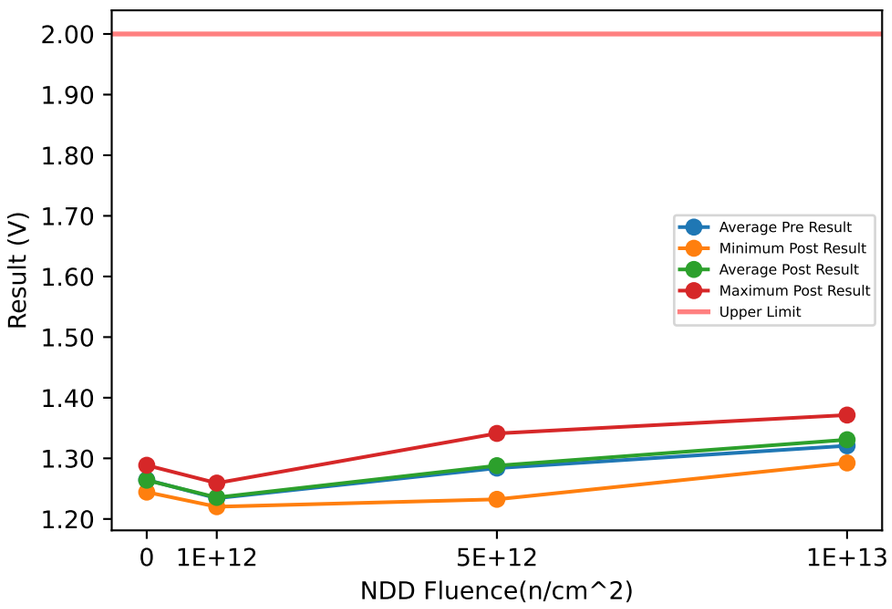
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.209	1.2108	0.0018
304	1e+12	NDD Unbiased	1.1912	1.1937	0.0025
305	1e+12	NDD Unbiased	1.1955	1.1971	0.0016
306	1e+12	NDD Unbiased	1.2493	1.2514	0.0021
307	5e+12	NDD Unbiased	1.3195	1.3227	0.0032
308	5e+12	NDD Unbiased	1.2205	1.2224	0.0019
309	5e+12	NDD Unbiased	1.3195	1.3252	0.0057
310	5e+12	NDD Unbiased	1.213	1.2186	0.0056
311	1e+13	NDD Unbiased	1.2496	1.2592	0.0096
312	1e+13	NDD Unbiased	1.3073	1.3155	0.0082
313	1e+13	NDD Unbiased	1.3539	1.3639	0.01
314	1e+13	NDD Unbiased	1.2999	1.3111	0.0112
315	0	Correlation	1.1958	1.1933	-0.0025
316	0	Correlation	1.2324	1.2324	0
317	0	Correlation	1.2824	1.2827	0.0003

Test Statistics (V)

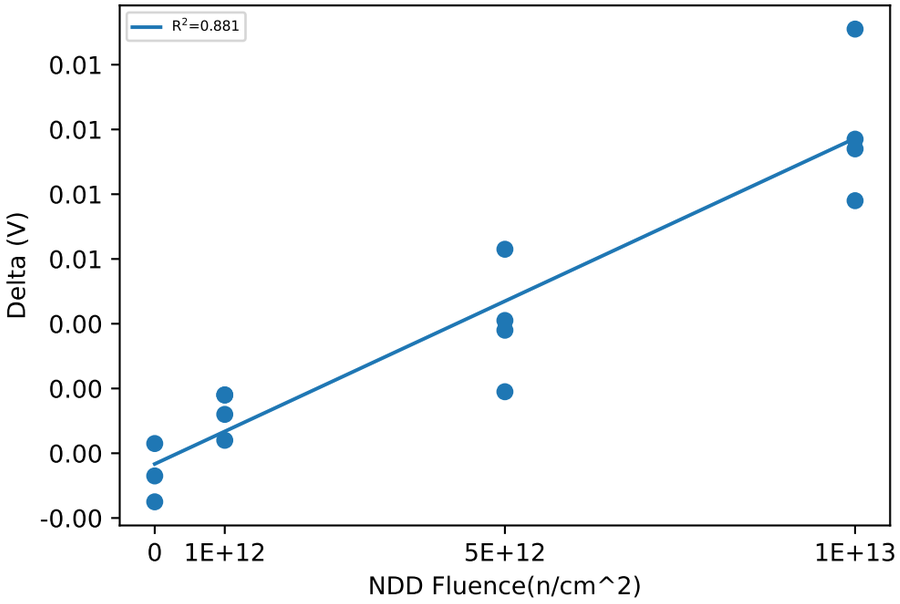
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1958	1.2369	1.2824	0.043472	1.1933	1.2361	1.2827	0.044817	-0.0025	-0.00073333	0.0003	0.0015373
1e+12	1.1912	1.2113	1.2493	0.026476	1.1937	1.2132	1.2514	0.026486	0.0016	0.002	0.0025	0.00039158
5e+12	1.213	1.2681	1.3195	0.059402	1.2186	1.2722	1.3252	0.059756	0.0019	0.0041	0.0057	0.0018673
1e+13	1.2496	1.3027	1.3539	0.042701	1.2592	1.3124	1.3639	0.042793	0.0082	0.00975	0.0112	0.0012369

Device Test: 6.142; VIN_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.0 (V))

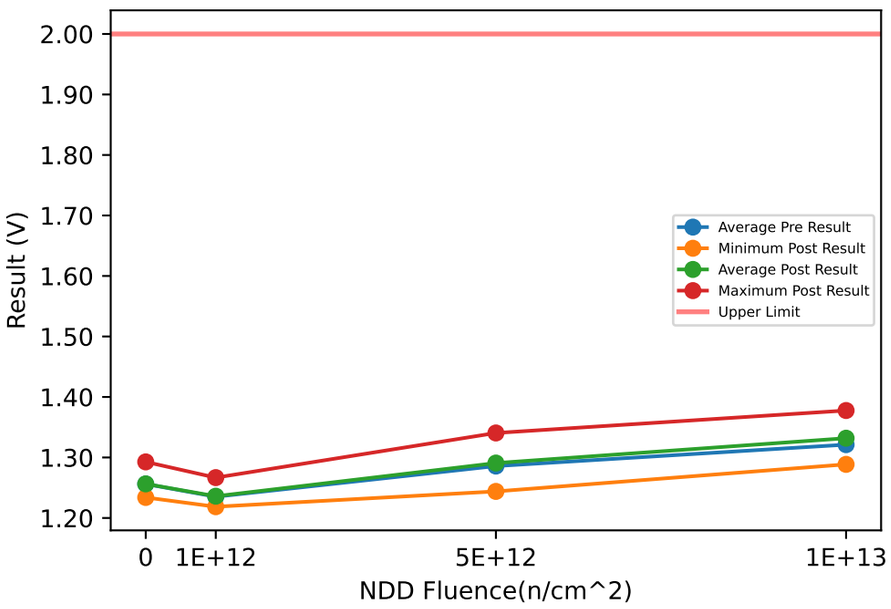
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.2343	1.2361	0.0018
304	1e+12	NDD Unbiased	1.219	1.2202	0.0012
305	1e+12	NDD Unbiased	1.2261	1.2265	0.0004
306	1e+12	NDD Unbiased	1.2574	1.2592	0.0018
307	5e+12	NDD Unbiased	1.3248	1.3286	0.0038
308	5e+12	NDD Unbiased	1.2477	1.2496	0.0019
309	5e+12	NDD Unbiased	1.3348	1.3411	0.0063
310	5e+12	NDD Unbiased	1.2283	1.2324	0.0041
311	1e+13	NDD Unbiased	1.283	1.2924	0.0094
312	1e+13	NDD Unbiased	1.3227	1.3305	0.0078
313	1e+13	NDD Unbiased	1.3617	1.3714	0.0097
314	1e+13	NDD Unbiased	1.3155	1.3286	0.0131
315	0	Correlation	1.2458	1.2443	-0.0015
316	0	Correlation	1.2596	1.2589	-0.0007
317	0	Correlation	1.2883	1.2886	0.0003

Test Statistics (V)

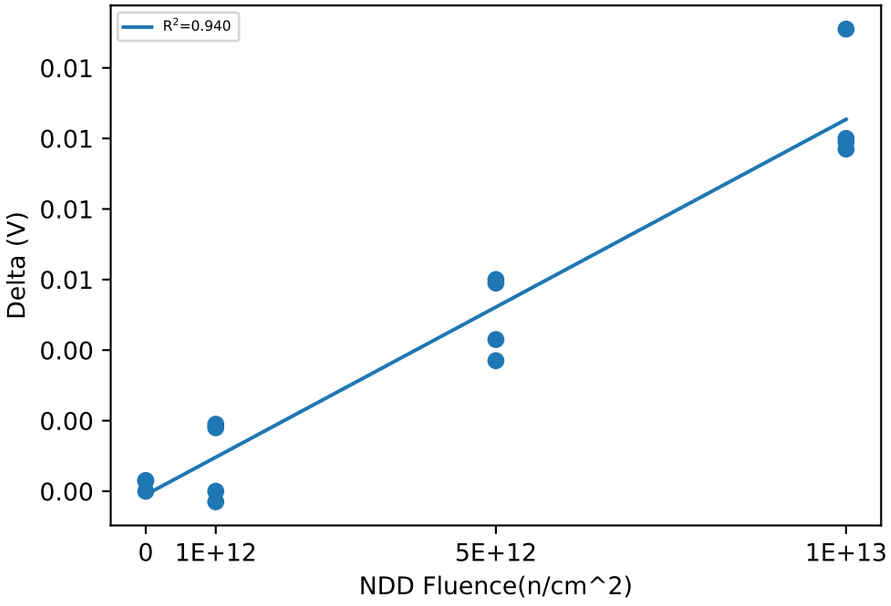
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2458	1.2646	1.2883	0.021681	1.2443	1.2639	1.2886	0.022575	-0.0015	-0.00063333	0.0003	0.00090185
1e+12	1.219	1.2342	1.2574	0.016682	1.2202	1.2355	1.2592	0.017099	0.0004	0.0013	0.0018	0.00066332
5e+12	1.2283	1.2839	1.3348	0.053745	1.2324	1.2879	1.3411	0.054875	0.0019	0.004025	0.0063	0.0018025
1e+13	1.283	1.3207	1.3617	0.032318	1.2924	1.3307	1.3714	0.032289	0.0078	0.01	0.0131	0.0022286

Device Test: 6.143; VIN_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.0 (V))

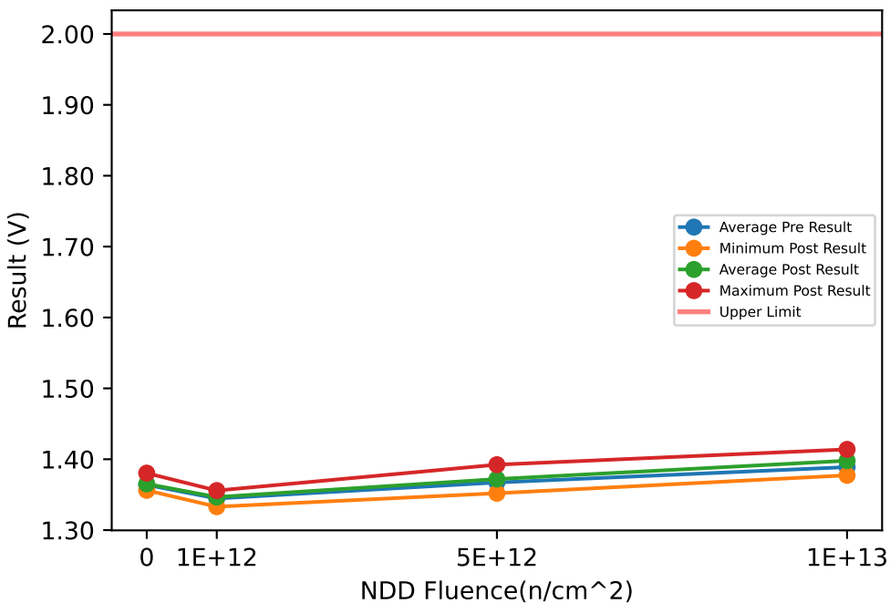
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.2246	1.2243	-0.0003
304	1e+12	NDD Unbiased	1.2324	1.2343	0.0019
305	1e+12	NDD Unbiased	1.2186	1.2186	0
306	1e+12	NDD Unbiased	1.2649	1.2667	0.0018
307	5e+12	NDD Unbiased	1.3311	1.3348	0.0037
308	5e+12	NDD Unbiased	1.2396	1.2439	0.0043
309	5e+12	NDD Unbiased	1.3345	1.3405	0.006
310	5e+12	NDD Unbiased	1.238	1.2439	0.0059
311	1e+13	NDD Unbiased	1.2786	1.2886	0.01
312	1e+13	NDD Unbiased	1.3227	1.3326	0.0099
313	1e+13	NDD Unbiased	1.3679	1.3776	0.0097
314	1e+13	NDD Unbiased	1.3155	1.3286	0.0131
315	0	Correlation	1.2339	1.2339	0
316	0	Correlation	1.2421	1.2424	0.0003
317	0	Correlation	1.2924	1.2927	0.0003

Test Statistics (V)

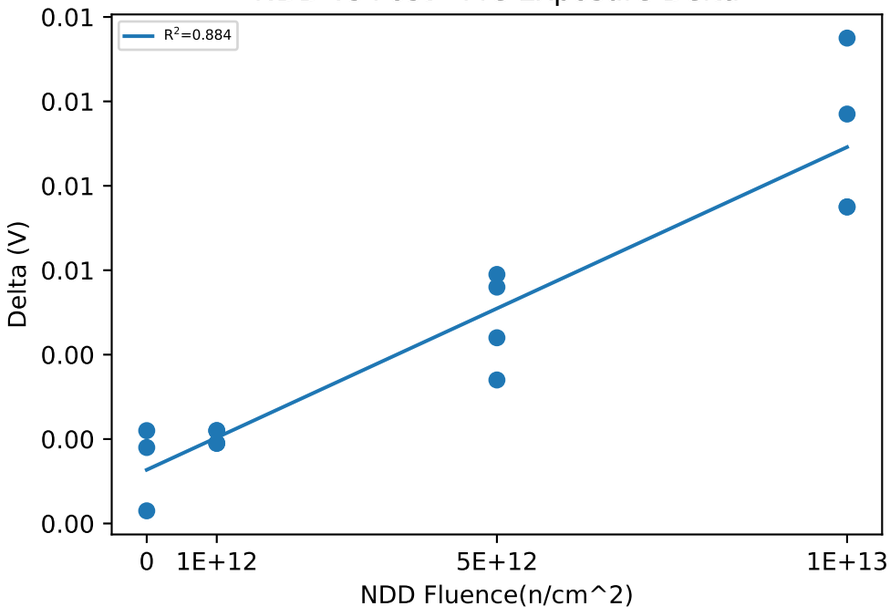
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2339	1.2561	1.2924	0.031674	1.2339	1.2563	1.2927	0.03178	0	0.0002	0.0003	0.00017321
1e+12	1.2186	1.2351	1.2649	0.020638	1.2186	1.236	1.2667	0.021487	-0.0003	0.00085	0.0019	0.0011619
5e+12	1.238	1.2858	1.3345	0.054293	1.2439	1.2908	1.3405	0.054177	0.0037	0.004975	0.006	0.0011529
1e+13	1.2786	1.3212	1.3679	0.036653	1.2886	1.3318	1.3776	0.036399	0.0097	0.010675	0.0131	0.0016215

Device Test: 6.144; VIN_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.0 (V))

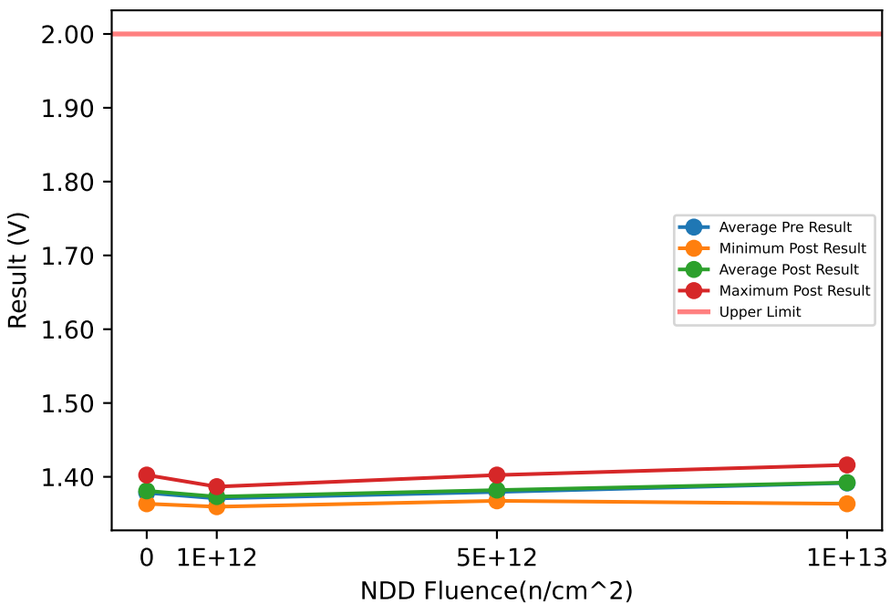
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.3311	1.333	0.0019
304	1e+12	NDD Unbiased	1.3539	1.3558	0.0019
305	1e+12	NDD Unbiased	1.3439	1.3461	0.0022
306	1e+12	NDD Unbiased	1.3495	1.3517	0.0022
307	5e+12	NDD Unbiased	1.3726	1.377	0.0044
308	5e+12	NDD Unbiased	1.3633	1.3667	0.0034
309	5e+12	NDD Unbiased	1.3864	1.3923	0.0059
310	5e+12	NDD Unbiased	1.3464	1.352	0.0056
311	1e+13	NDD Unbiased	1.3945	1.402	0.0075
312	1e+13	NDD Unbiased	1.3698	1.3773	0.0075
313	1e+13	NDD Unbiased	1.4042	1.4139	0.0097
314	1e+13	NDD Unbiased	1.387	1.3985	0.0115
315	0	Correlation	1.3539	1.3561	0.0022
316	0	Correlation	1.3786	1.3804	0.0018
317	0	Correlation	1.3589	1.3592	0.0003

Test Statistics (V)

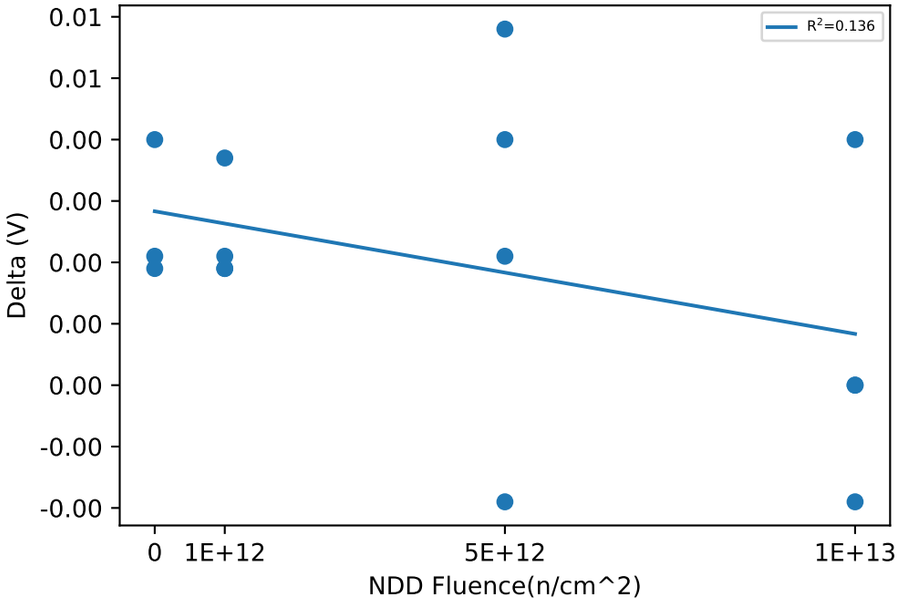
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.3539	1.3638	1.3786	0.013059	1.3561	1.3652	1.3804	0.013226	0.0003	0.0014333	0.0022	0.0010017
1e+12	1.3311	1.3446	1.3539	0.0098867	1.333	1.3466	1.3558	0.0099306	0.0019	0.00205	0.0022	0.00017321
5e+12	1.3464	1.3672	1.3864	0.016789	1.352	1.372	1.3923	0.016982	0.0034	0.004825	0.0059	0.00115
1e+13	1.3698	1.3889	1.4042	0.014536	1.3773	1.3979	1.4139	0.015248	0.0075	0.00905	0.0115	0.0019348

Device Test: 6.145; VIN_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.0 (V))

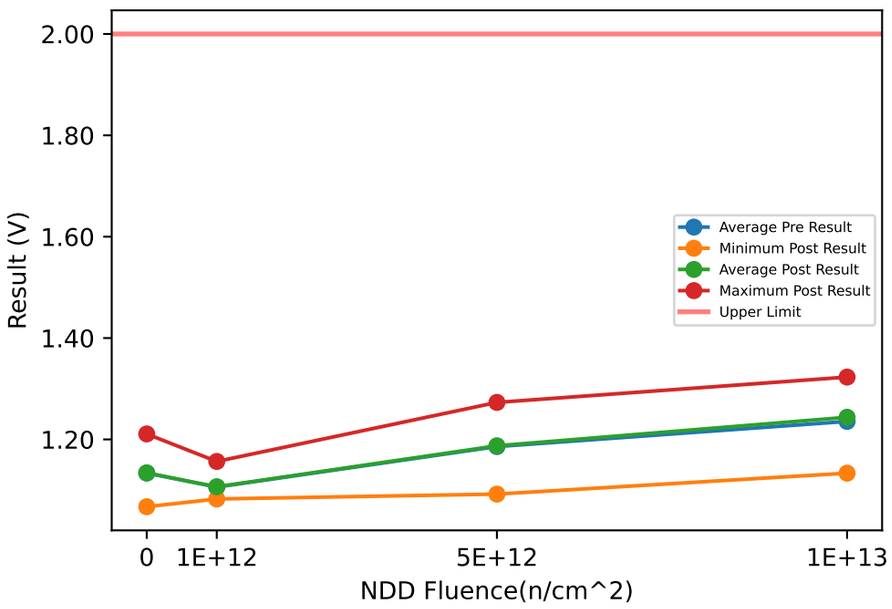
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.3635	1.3654	0.0019
304	1e+12	NDD Unbiased	1.383	1.3867	0.0037
305	1e+12	NDD Unbiased	1.3576	1.3595	0.0019
306	1e+12	NDD Unbiased	1.379	1.3811	0.0021
307	5e+12	NDD Unbiased	1.3731	1.3771	0.004
308	5e+12	NDD Unbiased	1.379	1.3811	0.0021
309	5e+12	NDD Unbiased	1.3966	1.4024	0.0058
310	5e+12	NDD Unbiased	1.3694	1.3675	-0.0019
311	1e+13	NDD Unbiased	1.4161	1.4161	0
312	1e+13	NDD Unbiased	1.3654	1.3635	-0.0019
313	1e+13	NDD Unbiased	1.3984	1.3984	0
314	1e+13	NDD Unbiased	1.3867	1.3907	0.004
315	0	Correlation	1.3731	1.3771	0.004
316	0	Correlation	1.4003	1.4024	0.0021
317	0	Correlation	1.3616	1.3635	0.0019

Test Statistics (V)

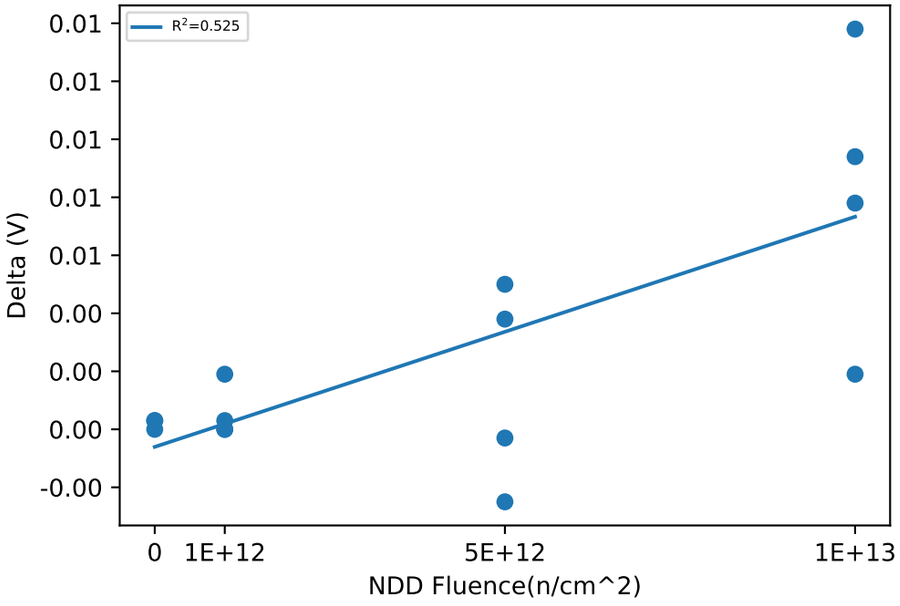
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.3616	1.3783	1.4003	0.019874	1.3635	1.381	1.4024	0.019741	0.0019	0.0026667	0.004	0.001159
1e+12	1.3576	1.3708	1.383	0.01216	1.3595	1.3732	1.3867	0.012822	0.0019	0.0024	0.0037	0.00087178
5e+12	1.3694	1.3795	1.3966	0.01205	1.3675	1.382	1.4024	0.014733	-0.0019	0.0025	0.0058	0.0032995
1e+13	1.3654	1.3917	1.4161	0.021268	1.3635	1.3922	1.4161	0.021875	-0.0019	0.000525	0.004	0.0024838

Device Test: 6.146; VIN_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



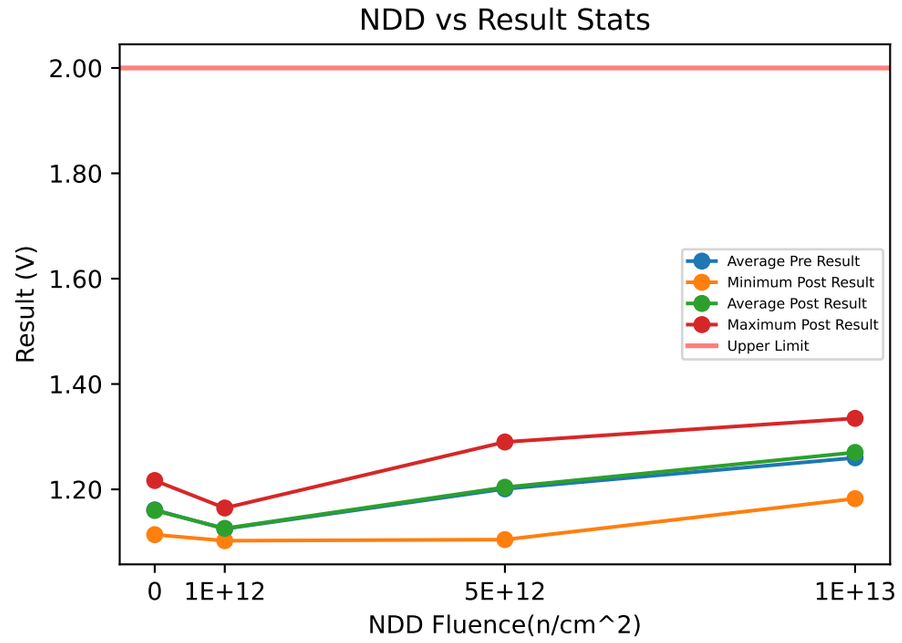
Test Results (Upper Limit = 2.0 (V))

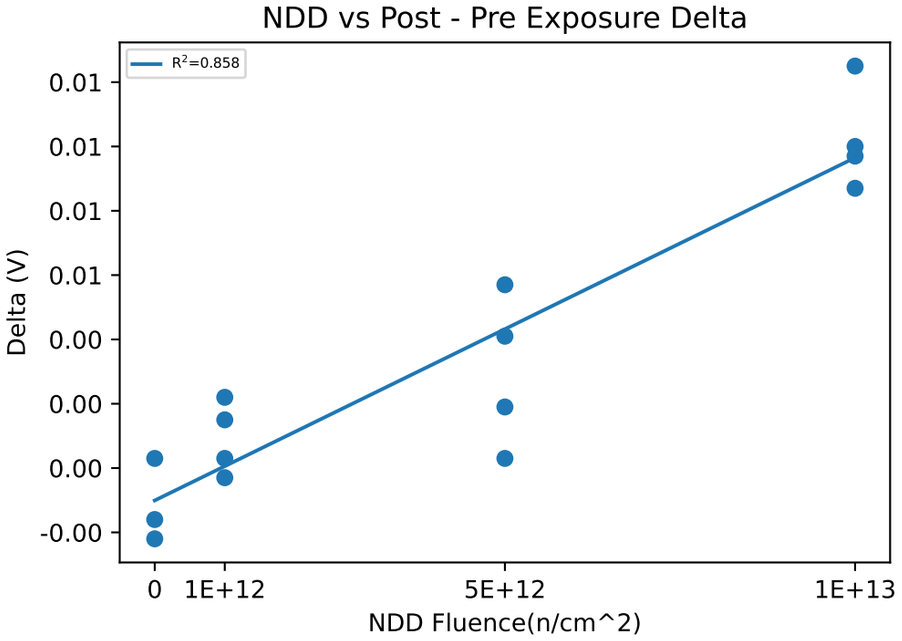
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.0965	1.0965	0
304	1e+12	NDD Unbiased	1.0806	1.0825	0.0019
305	1e+12	NDD Unbiased	1.0903	1.0906	0.0003
306	1e+12	NDD Unbiased	1.1565	1.1565	0
307	5e+12	NDD Unbiased	1.2692	1.273	0.0038
308	5e+12	NDD Unbiased	1.1159	1.1156	-0.0003
309	5e+12	NDD Unbiased	1.2639	1.2689	0.005
310	5e+12	NDD Unbiased	1.0946	1.0921	-0.0025
311	1e+13	NDD Unbiased	1.1315	1.1334	0.0019
312	1e+13	NDD Unbiased	1.2589	1.2667	0.0078
313	1e+13	NDD Unbiased	1.3136	1.323	0.0094
314	1e+13	NDD Unbiased	1.238	1.2518	0.0138
315	0	Correlation	1.0672	1.0672	0
316	0	Correlation	1.1234	1.1237	0.0003
317	0	Correlation	1.2105	1.2108	0.0003

Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0672	1.1337	1.2105	0.072203	1.0672	1.1339	1.2108	0.072341	0	0.0002	0.0003	0.00017321
1e+12	1.0806	1.106	1.1565	0.034313	1.0825	1.1065	1.1565	0.033807	0	0.00055	0.0019	0.00091104
5e+12	1.0946	1.1859	1.2692	0.093557	1.0921	1.1874	1.273	0.096966	-0.0025	0.0015	0.005	0.0035014
1e+13	1.1315	1.2355	1.3136	0.07631	1.1334	1.2437	1.323	0.079685	0.0019	0.008225	0.0138	0.004921

Device Test: 6.147; VIN_VALID





Test Results (Upper Limit = 2.0 (V))

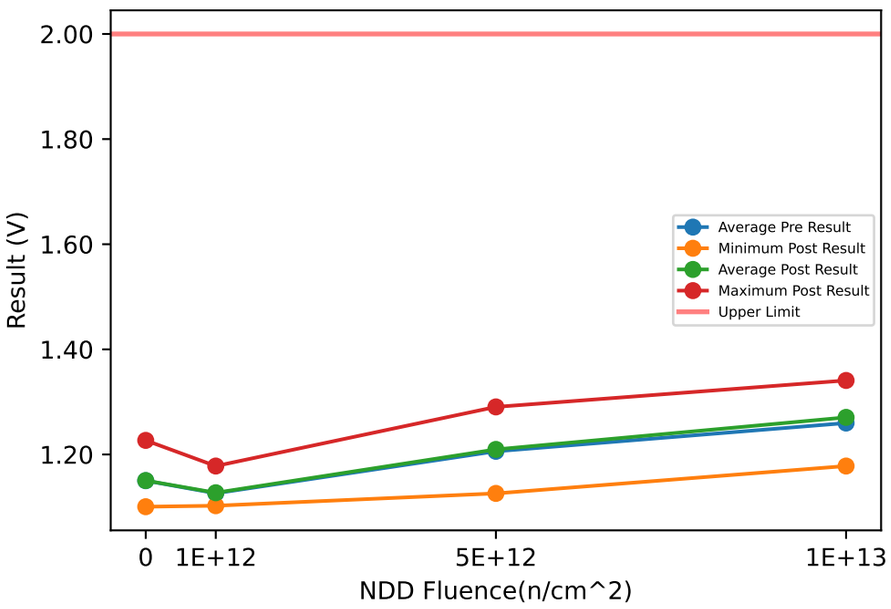
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.1196	1.1193	-0.0003
304	1e+12	NDD Unbiased	1.1003	1.1025	0.0022
305	1e+12	NDD Unbiased	1.1159	1.1174	0.0015
306	1e+12	NDD Unbiased	1.1643	1.1646	0.0003
307	5e+12	NDD Unbiased	1.2764	1.2805	0.0041
308	5e+12	NDD Unbiased	1.139	1.1409	0.0019
309	5e+12	NDD Unbiased	1.2842	1.2899	0.0057
310	5e+12	NDD Unbiased	1.1043	1.1046	0.0003
311	1e+13	NDD Unbiased	1.1737	1.1824	0.0087
312	1e+13	NDD Unbiased	1.2786	1.2883	0.0097
313	1e+13	NDD Unbiased	1.3248	1.3348	0.01
314	1e+13	NDD Unbiased	1.2624	1.2749	0.0125
315	0	Correlation	1.1156	1.114	-0.0016
316	0	Correlation	1.1512	1.149	-0.0022
317	0	Correlation	1.2165	1.2168	0.0003

Test Statistics (V)

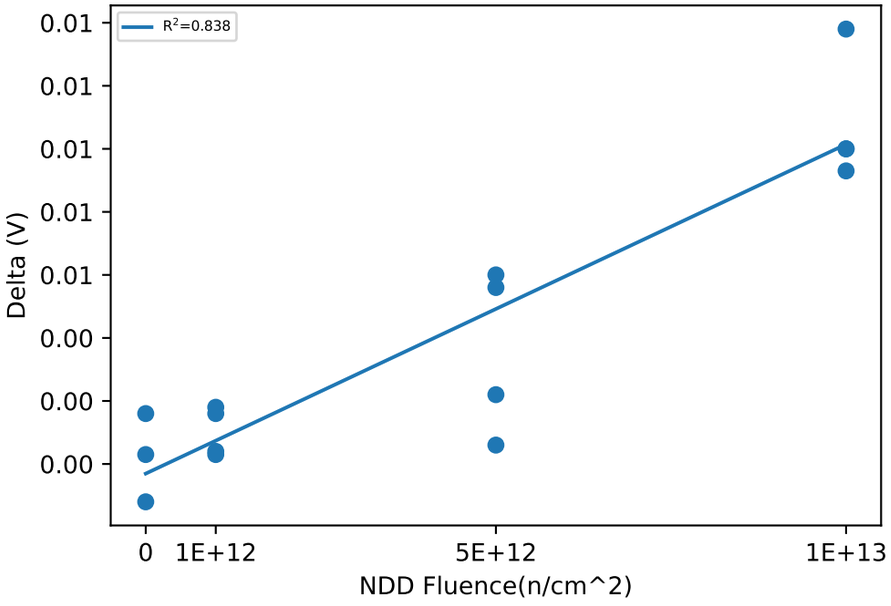
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1156	1.1611	1.2165	0.051173	1.114	1.1599	1.2168	0.052265	-0.0022	-0.0011667	0.0003	0.0013051
1e+12	1.1003	1.125	1.1643	0.027487	1.1025	1.126	1.1646	0.026839	-0.0003	0.000925	0.0022	0.0011325
5e+12	1.1043	1.201	1.2842	0.09274	1.1046	1.204	1.2899	0.095032	0.0003	0.003	0.0057	0.0023805
1e+13	1.1737	1.2599	1.3248	0.063241	1.1824	1.2701	1.3348	0.063853	0.0087	0.010225	0.0125	0.0016153

Device Test: 6.148; VIN_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.0 (V))

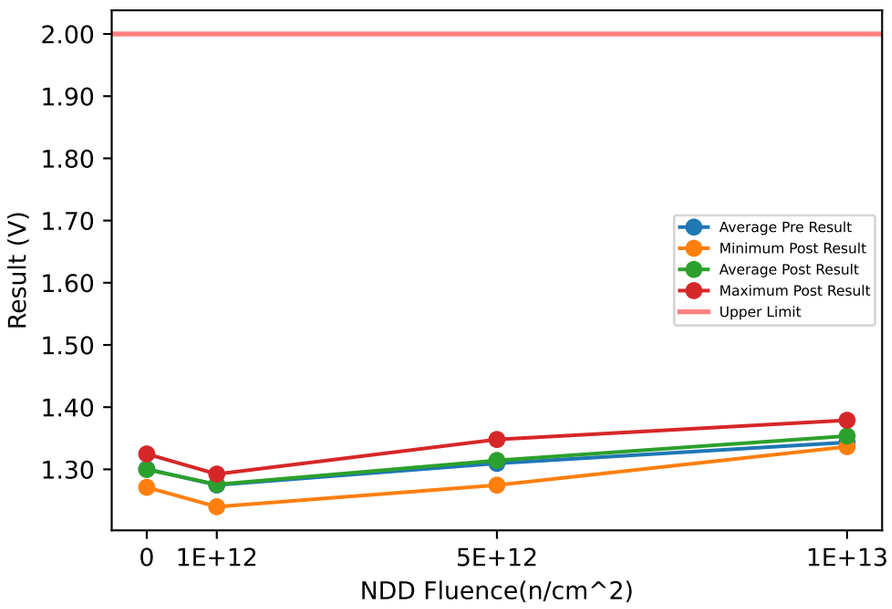
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.1021	1.1025	0.0004
304	1e+12	NDD Unbiased	1.1196	1.1199	0.0003
305	1e+12	NDD Unbiased	1.1068	1.1084	0.0016
306	1e+12	NDD Unbiased	1.1762	1.178	0.0018
307	5e+12	NDD Unbiased	1.2827	1.2883	0.0056
308	5e+12	NDD Unbiased	1.1331	1.1337	0.0006
309	5e+12	NDD Unbiased	1.2845	1.2905	0.006
310	5e+12	NDD Unbiased	1.1237	1.1259	0.0022
311	1e+13	NDD Unbiased	1.1687	1.178	0.0093
312	1e+13	NDD Unbiased	1.2805	1.2905	0.01
313	1e+13	NDD Unbiased	1.3308	1.3408	0.01
314	1e+13	NDD Unbiased	1.2592	1.273	0.0138
315	0	Correlation	1.1018	1.1006	-0.0012
316	0	Correlation	1.1221	1.1237	0.0016
317	0	Correlation	1.2265	1.2268	0.0003

Test Statistics (V)

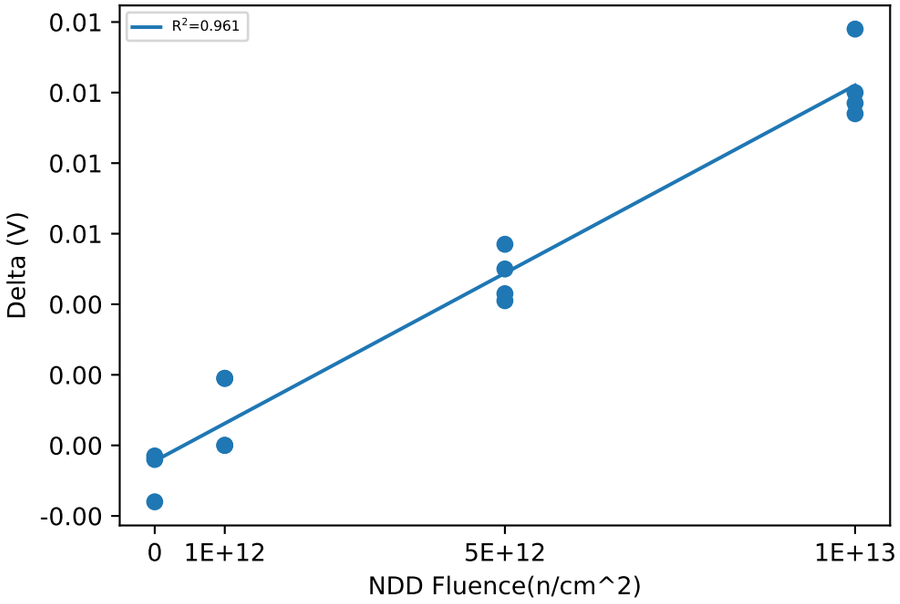
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1018	1.1501	1.2265	0.06691	1.1006	1.1504	1.2268	0.067193	-0.0012	0.00023333	0.0016	0.0014012
1e+12	1.1021	1.1262	1.1762	0.03416	1.1025	1.1272	1.178	0.034629	0.0003	0.001025	0.0018	0.00078475
5e+12	1.1237	1.206	1.2845	0.08969	1.1259	1.2096	1.2905	0.092204	0.0006	0.0036	0.006	0.0026281
1e+13	1.1687	1.2598	1.3308	0.067747	1.178	1.2706	1.3408	0.06808	0.0093	0.010775	0.0138	0.0020435

Device Test: 6.149; VIN_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.0 (V))

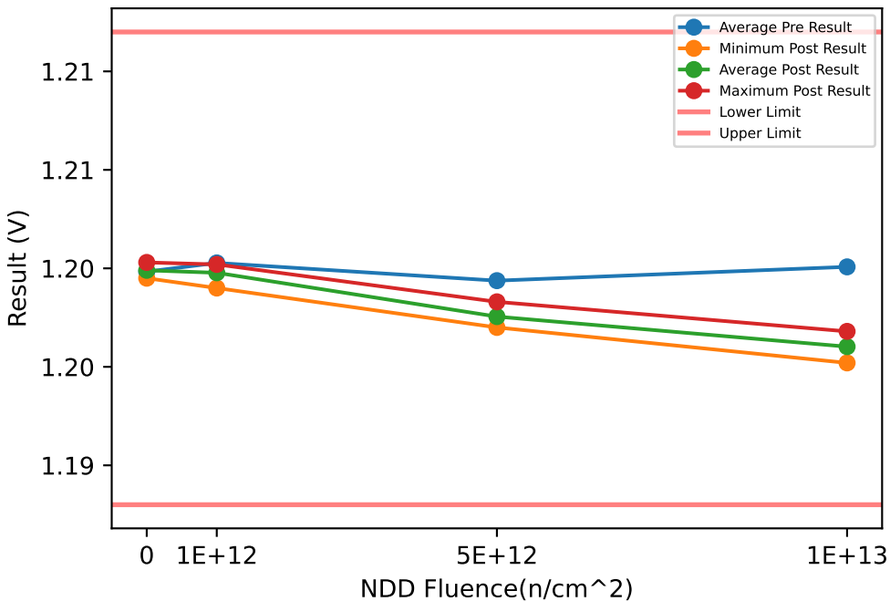
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.2399	1.2399	0
304	1e+12	NDD Unbiased	1.2905	1.2924	0.0019
305	1e+12	NDD Unbiased	1.2824	1.2824	0
306	1e+12	NDD Unbiased	1.2864	1.2883	0.0019
307	5e+12	NDD Unbiased	1.3227	1.327	0.0043
308	5e+12	NDD Unbiased	1.3036	1.3077	0.0041
309	5e+12	NDD Unbiased	1.343	1.348	0.005
310	5e+12	NDD Unbiased	1.2689	1.2746	0.0057
311	1e+13	NDD Unbiased	1.3311	1.3411	0.01
312	1e+13	NDD Unbiased	1.3267	1.3364	0.0097
313	1e+13	NDD Unbiased	1.3695	1.3789	0.0094
314	1e+13	NDD Unbiased	1.3461	1.3579	0.0118
315	0	Correlation	1.2727	1.2711	-0.0016
316	0	Correlation	1.3252	1.3248	-0.0004
317	0	Correlation	1.3036	1.3033	-0.0003

Test Statistics (V)

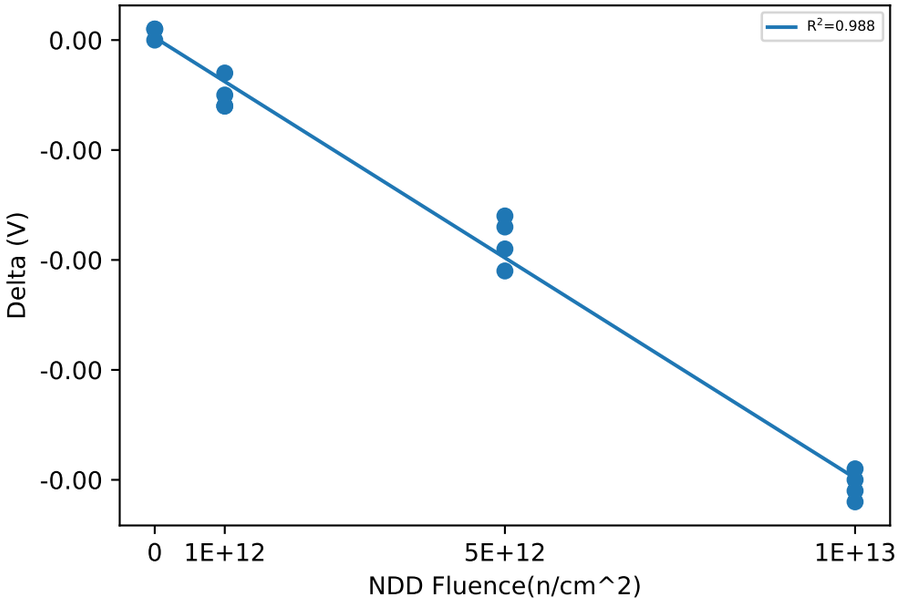
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2727	1.3005	1.3252	0.026387	1.2711	1.2997	1.3248	0.027027	-0.0016	-0.00076667	-0.0003	0.00072342
1e+12	1.2399	1.2748	1.2905	0.0235	1.2399	1.2757	1.2924	0.02425	0	0.00095	0.0019	0.001097
5e+12	1.2689	1.3095	1.343	0.031515	1.2746	1.3143	1.348	0.03118	0.0041	0.004775	0.0057	0.00072744
1e+13	1.3267	1.3434	1.3695	0.01931	1.3364	1.3536	1.3789	0.019241	0.0094	0.010225	0.0118	0.0010782

Device Test: 6.15; REFCAP

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

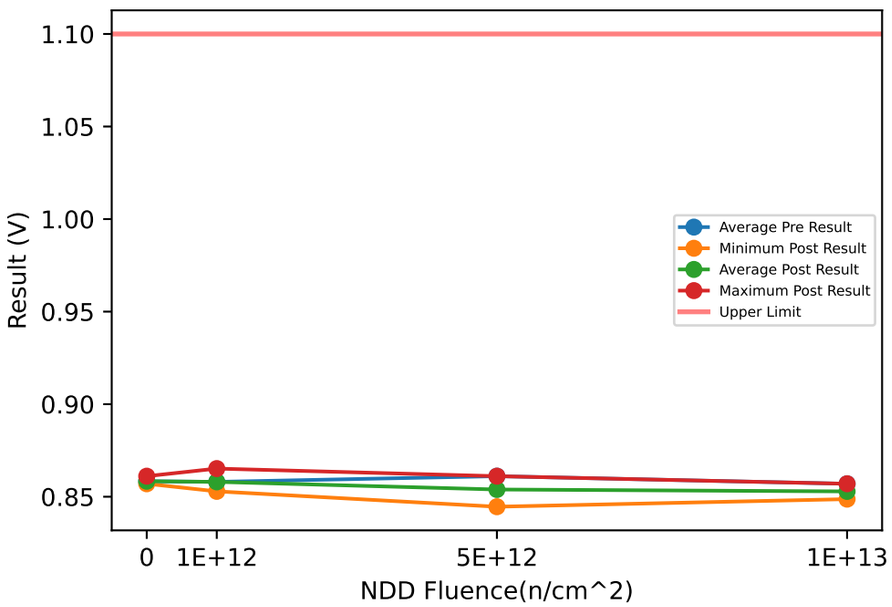
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.2005	1.2002	-0.0003
304	1e+12	NDD Unbiased	1.2008	1.2002	-0.0006
305	1e+12	NDD Unbiased	1.2003	1.1997	-0.0006
306	1e+12	NDD Unbiased	1.1995	1.199	-0.0005
307	5e+12	NDD Unbiased	1.2	1.1983	-0.0017
308	5e+12	NDD Unbiased	1.1989	1.197	-0.0019
309	5e+12	NDD Unbiased	1.1991	1.1975	-0.0016
310	5e+12	NDD Unbiased	1.1995	1.1974	-0.0021
311	1e+13	NDD Unbiased	1.2009	1.1968	-0.0041
312	1e+13	NDD Unbiased	1.1991	1.1952	-0.0039
313	1e+13	NDD Unbiased	1.2003	1.1963	-0.004
314	1e+13	NDD Unbiased	1.2	1.1958	-0.0042
315	0	Correlation	1.2002	1.2003	0.0001
316	0	Correlation	1.1994	1.1995	0.0001
317	0	Correlation	1.1999	1.1999	0

Test Statistics (V)

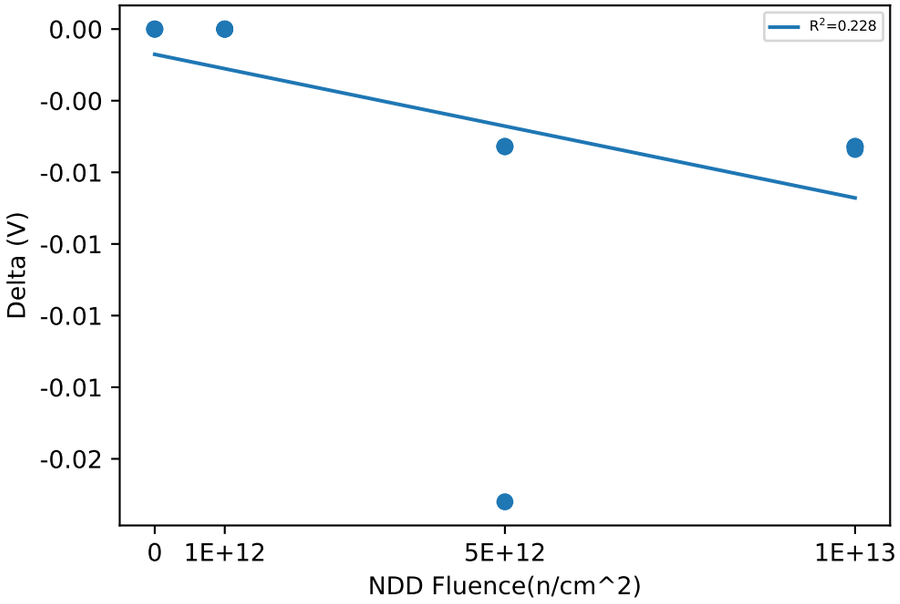
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1994	1.1998	1.2002	0.00040415	1.1995	1.1999	1.2003	0.0004	0	6.6667e-05	0.0001	5.7735e-05
1e+12	1.1995	1.2003	1.2008	0.00055603	1.199	1.1998	1.2002	0.00056789	-0.0006	-0.0005	-0.0003	0.00014142
5e+12	1.1989	1.1994	1.2	0.00048563	1.197	1.1976	1.1983	0.00054467	-0.0021	-0.001825	-0.0016	0.00022174
1e+13	1.1991	1.2001	1.2009	0.00075	1.1952	1.196	1.1968	0.00068496	-0.0042	-0.00405	-0.0039	0.0001291

Device Test: 6.150; VPULLUP_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 1.1 (V))

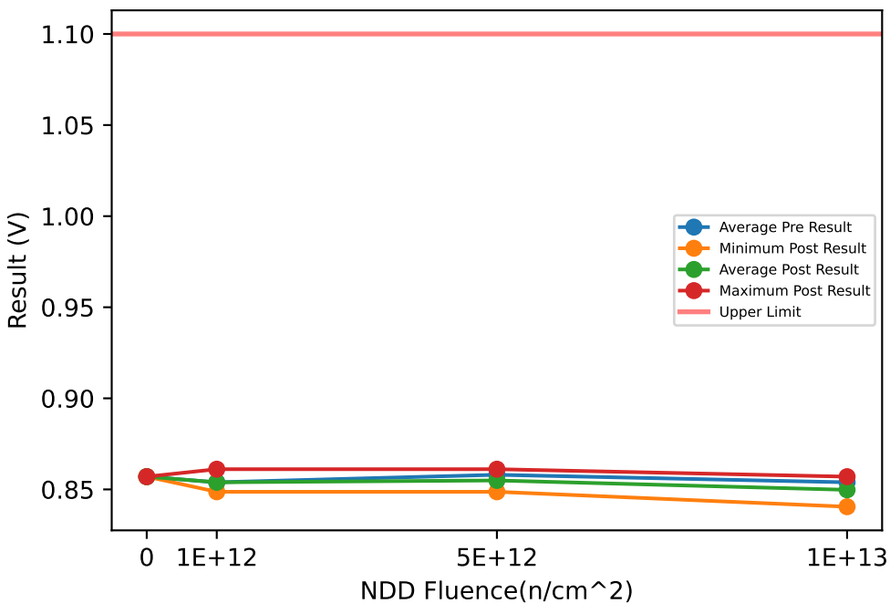
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.857	0.857	0
304	1e+12	NDD Unbiased	0.8529	0.8529	0
305	1e+12	NDD Unbiased	0.857	0.857	0
306	1e+12	NDD Unbiased	0.8652	0.8652	0
307	5e+12	NDD Unbiased	0.8611	0.857	-0.0041
308	5e+12	NDD Unbiased	0.857	0.8529	-0.0041
309	5e+12	NDD Unbiased	0.8652	0.8611	-0.0041
310	5e+12	NDD Unbiased	0.8611	0.8446	-0.0165
311	1e+13	NDD Unbiased	0.8529	0.8487	-0.0042
312	1e+13	NDD Unbiased	0.8611	0.857	-0.0041
313	1e+13	NDD Unbiased	0.857	0.8529	-0.0041
314	1e+13	NDD Unbiased	0.857	0.8529	-0.0041
315	0	Correlation	0.857	0.857	0
316	0	Correlation	0.8611	0.8611	0
317	0	Correlation	0.857	0.857	0

Test Statistics (V)

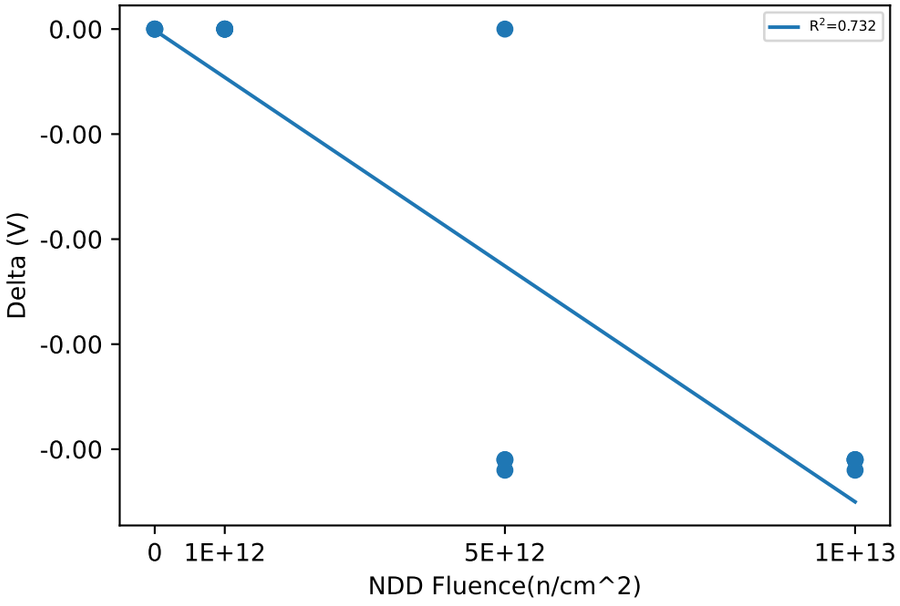
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.857	0.85837	0.8611	0.0023671	0.857	0.85837	0.8611	0.0023671	0	0	0	0
1e+12	0.8529	0.85803	0.8652	0.0051591	0.8529	0.85803	0.8652	0.0051591	0	0	0	0
5e+12	0.857	0.8611	0.8652	0.0033476	0.8446	0.8539	0.8611	0.007046	-0.0165	-0.0072	-0.0041	0.0062
1e+13	0.8529	0.857	0.8611	0.0033476	0.8487	0.85288	0.857	0.0033886	-0.0042	-0.004125	-0.0041	5e-05

Device Test: 6.151; VPULLUP_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 1.1 (V))

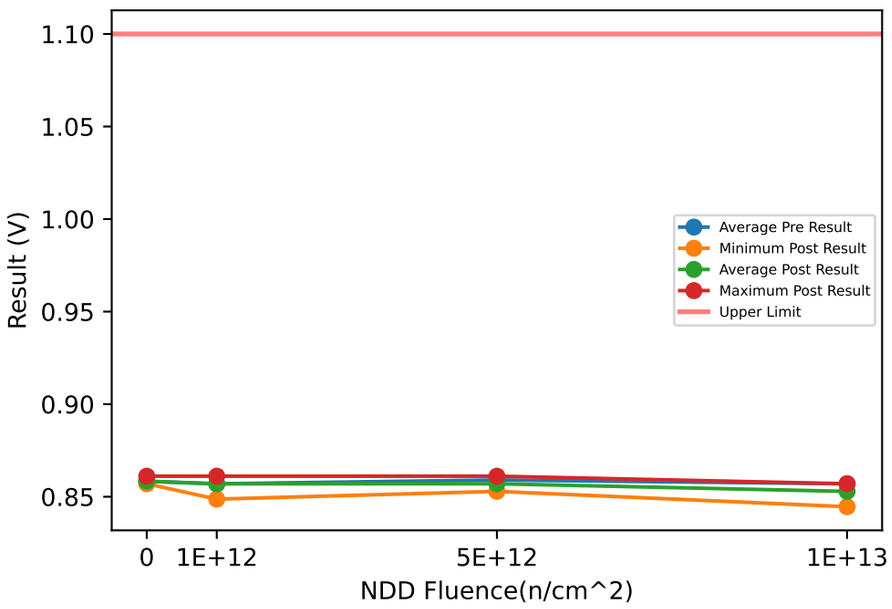
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.8529	0.8529	0
304	1e+12	NDD Unbiased	0.8487	0.8487	0
305	1e+12	NDD Unbiased	0.8529	0.8529	0
306	1e+12	NDD Unbiased	0.8611	0.8611	0
307	5e+12	NDD Unbiased	0.8611	0.857	-0.0041
308	5e+12	NDD Unbiased	0.8529	0.8487	-0.0042
309	5e+12	NDD Unbiased	0.8652	0.8611	-0.0041
310	5e+12	NDD Unbiased	0.8529	0.8529	0
311	1e+13	NDD Unbiased	0.8446	0.8405	-0.0041
312	1e+13	NDD Unbiased	0.8611	0.857	-0.0041
313	1e+13	NDD Unbiased	0.857	0.8529	-0.0041
314	1e+13	NDD Unbiased	0.8529	0.8487	-0.0042
315	0	Correlation	0.857	0.857	0
316	0	Correlation	0.857	0.857	0
317	0	Correlation	0.857	0.857	0

Test Statistics (V)

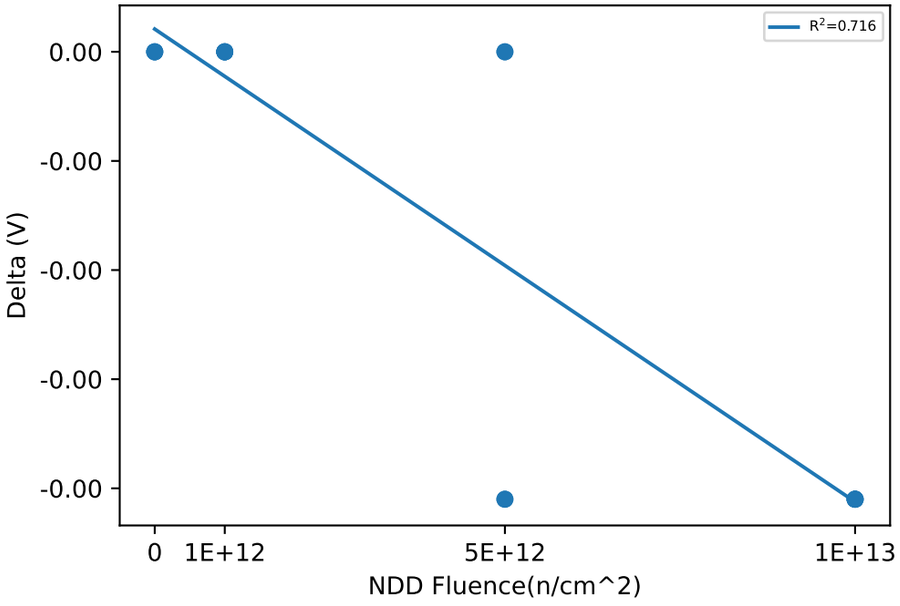
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.857	0.857	0.857	0	0.857	0.857	0.857	0	0	0	0	0
1e+12	0.8487	0.8539	0.8611	0.0051923	0.8487	0.8539	0.8611	0.0051923	0	0	0	0
5e+12	0.8529	0.85803	0.8652	0.00615	0.8487	0.85492	0.8611	0.0053319	-0.0042	-0.0031	0	0.0020672
1e+13	0.8446	0.8539	0.8611	0.007046	0.8405	0.84977	0.857	0.0070509	-0.0042	-0.004125	-0.0041	5e-05

Device Test: 6.152; VPULLUP_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



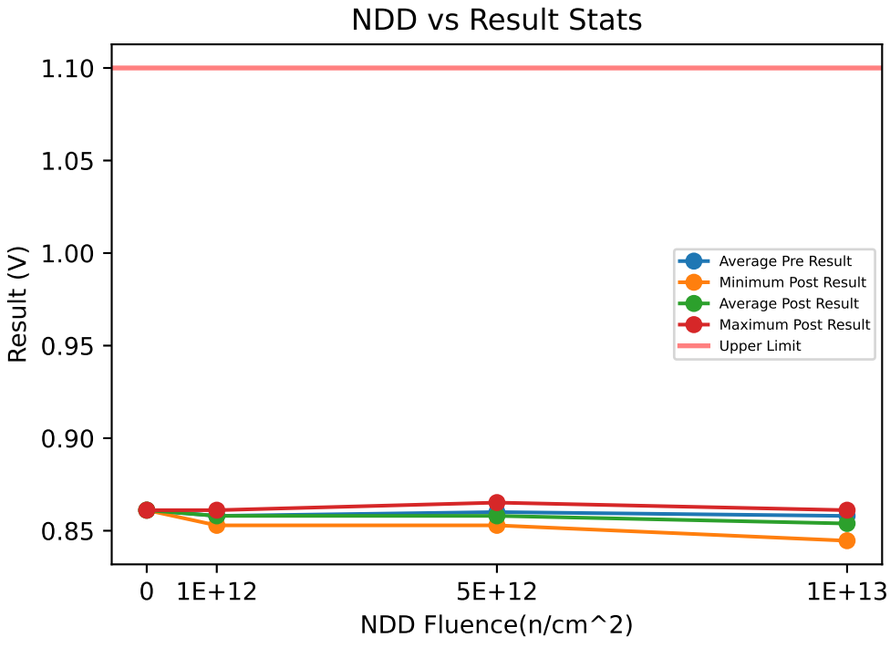
Test Results (Upper Limit = 1.1 (V))

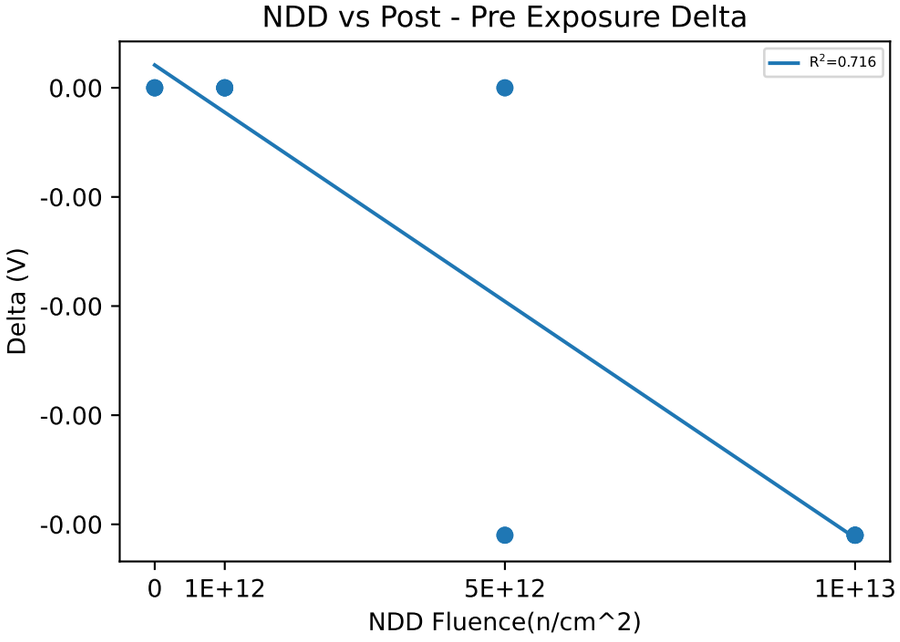
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.857	0.857	0
304	1e+12	NDD Unbiased	0.8487	0.8487	0
305	1e+12	NDD Unbiased	0.8611	0.8611	0
306	1e+12	NDD Unbiased	0.8611	0.8611	0
307	5e+12	NDD Unbiased	0.8611	0.8611	0
308	5e+12	NDD Unbiased	0.857	0.857	0
309	5e+12	NDD Unbiased	0.8611	0.857	-0.0041
310	5e+12	NDD Unbiased	0.857	0.8529	-0.0041
311	1e+13	NDD Unbiased	0.8487	0.8446	-0.0041
312	1e+13	NDD Unbiased	0.8611	0.857	-0.0041
313	1e+13	NDD Unbiased	0.8611	0.857	-0.0041
314	1e+13	NDD Unbiased	0.857	0.8529	-0.0041
315	0	Correlation	0.8611	0.8611	0
316	0	Correlation	0.857	0.857	0
317	0	Correlation	0.857	0.857	0

Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.857	0.85837	0.8611	0.0023671	0.857	0.85837	0.8611	0.0023671	0	0	0	0
1e+12	0.8487	0.85698	0.8611	0.0058454	0.8487	0.85698	0.8611	0.0058454	0	0	0	0
5e+12	0.857	0.85905	0.8611	0.0023671	0.8529	0.857	0.8611	0.0033476	-0.0041	-0.00205	0	0.0023671
1e+13	0.8487	0.85698	0.8611	0.0058454	0.8446	0.85288	0.857	0.0058454	-0.0041	-0.0041	-0.0041	0

Device Test: 6.153; VPULLUP_VALID





Test Results (Upper Limit = 1.1 (V))

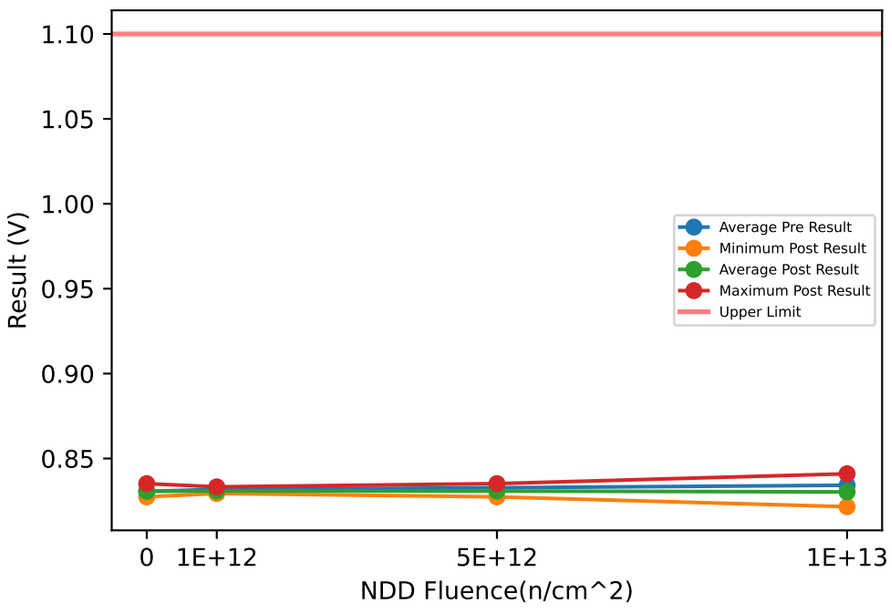
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.8611	0.8611	0
304	1e+12	NDD Unbiased	0.8529	0.8529	0
305	1e+12	NDD Unbiased	0.8611	0.8611	0
306	1e+12	NDD Unbiased	0.857	0.857	0
307	5e+12	NDD Unbiased	0.8693	0.8652	-0.0041
308	5e+12	NDD Unbiased	0.8529	0.8529	0
309	5e+12	NDD Unbiased	0.8611	0.8611	0
310	5e+12	NDD Unbiased	0.857	0.8529	-0.0041
311	1e+13	NDD Unbiased	0.8487	0.8446	-0.0041
312	1e+13	NDD Unbiased	0.857	0.8529	-0.0041
313	1e+13	NDD Unbiased	0.8652	0.8611	-0.0041
314	1e+13	NDD Unbiased	0.8611	0.857	-0.0041
315	0	Correlation	0.8611	0.8611	0
316	0	Correlation	0.8611	0.8611	0
317	0	Correlation	0.8611	0.8611	0

Test Statistics (V)

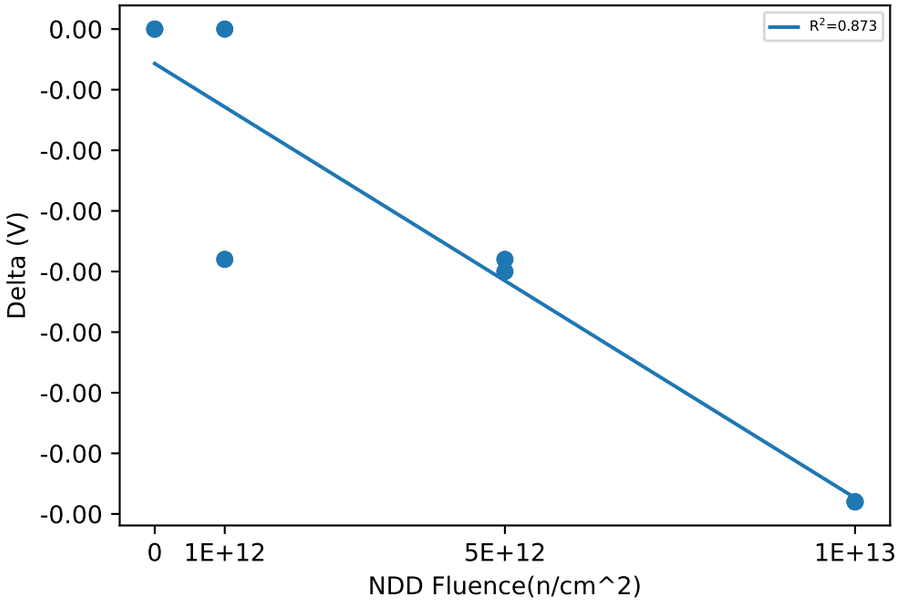
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.8611	0.8611	0.8611	0	0.8611	0.8611	0.8611	0	0	0	0	0
1e+12	0.8529	0.85803	0.8611	0.0039255	0.8529	0.85803	0.8611	0.0039255	0	0	0	0
5e+12	0.8529	0.86007	0.8693	0.0070021	0.8529	0.85803	0.8652	0.00615	-0.0041	-0.00205	0	0.0023671
1e+13	0.8487	0.858	0.8652	0.007046	0.8446	0.8539	0.8611	0.007046	-0.0041	-0.0041	-0.0041	0

Device Test: 6.154; VPULLUP_VALID

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 1.1 (V))

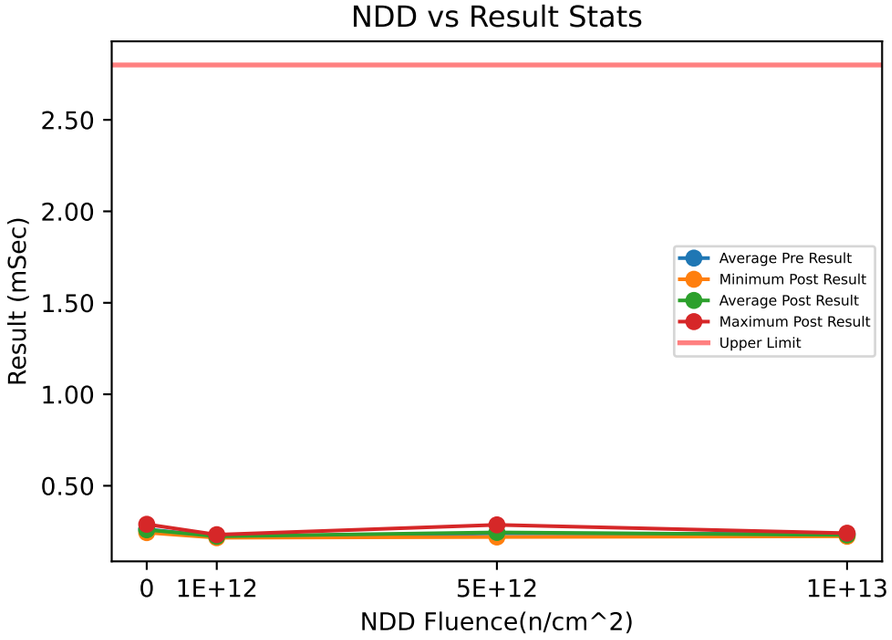
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.8333	0.8333	0
304	1e+12	NDD Unbiased	0.8313	0.8294	-0.0019
305	1e+12	NDD Unbiased	0.8313	0.8294	-0.0019
306	1e+12	NDD Unbiased	0.8313	0.8313	0
307	5e+12	NDD Unbiased	0.8371	0.8352	-0.0019
308	5e+12	NDD Unbiased	0.8294	0.8274	-0.002
309	5e+12	NDD Unbiased	0.8352	0.8333	-0.0019
310	5e+12	NDD Unbiased	0.8294	0.8274	-0.002
311	1e+13	NDD Unbiased	0.8255	0.8216	-0.0039
312	1e+13	NDD Unbiased	0.8313	0.8274	-0.0039
313	1e+13	NDD Unbiased	0.8449	0.841	-0.0039
314	1e+13	NDD Unbiased	0.8352	0.8313	-0.0039
315	0	Correlation	0.8274	0.8274	0
316	0	Correlation	0.8352	0.8352	0
317	0	Correlation	0.8294	0.8294	0

Test Statistics (V)

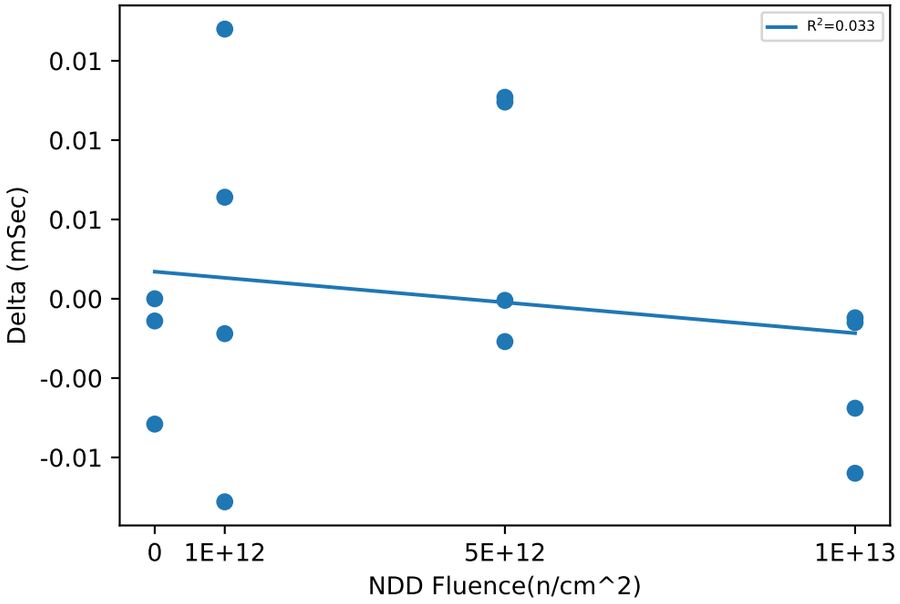
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.8274	0.83067	0.8352	0.0040513	0.8274	0.83067	0.8352	0.0040513	0	0	0	0
1e+12	0.8313	0.8318	0.8333	0.001	0.8294	0.83085	0.8333	0.0018628	-0.0019	-0.00095	0	0.001097
5e+12	0.8294	0.83278	0.8371	0.0039736	0.8274	0.83083	0.8352	0.0040302	-0.002	-0.00195	-0.0019	5.7735e-05
1e+13	0.8255	0.83422	0.8449	0.0081565	0.8216	0.83032	0.841	0.0081565	-0.0039	-0.0039	-0.0039	0

Device Test: 6.155; START_DLY

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.8 (mSec))

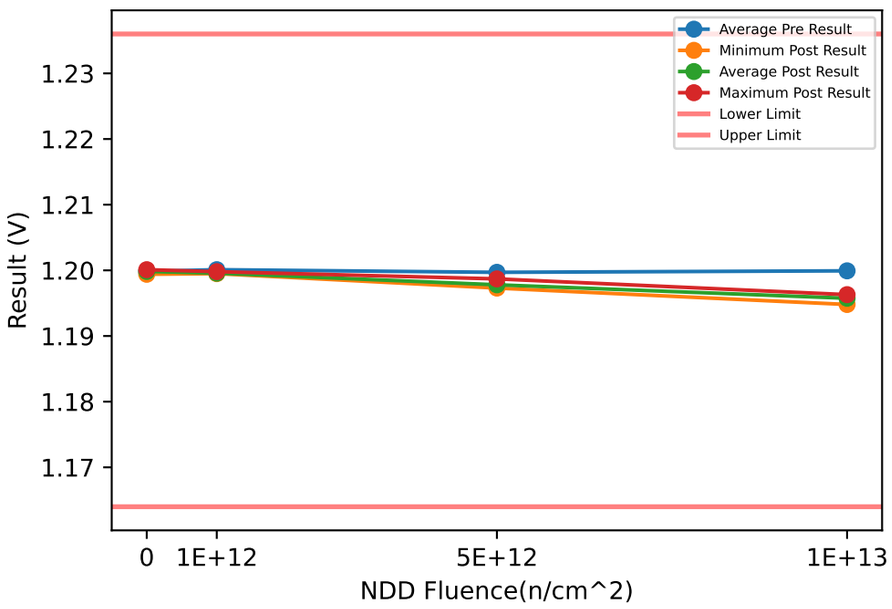
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2288	0.216	-0.0128
304	1e+12	NDD Unbiased	0.2156	0.2326	0.017
305	1e+12	NDD Unbiased	0.229	0.2268	-0.0022
306	1e+12	NDD Unbiased	0.2129	0.2193	0.0064
307	5e+12	NDD Unbiased	0.2299	0.2423	0.0124
308	5e+12	NDD Unbiased	0.2864	0.2863	-0.0001
309	5e+12	NDD Unbiased	0.2344	0.2317	-0.0027
310	5e+12	NDD Unbiased	0.2072	0.2199	0.0127
311	1e+13	NDD Unbiased	0.2341	0.2326	-0.0015
312	1e+13	NDD Unbiased	0.2518	0.2408	-0.011
313	1e+13	NDD Unbiased	0.2306	0.2237	-0.0069
314	1e+13	NDD Unbiased	0.228	0.2268	-0.0012
315	0	Correlation	0.2517	0.2438	-0.0079
316	0	Correlation	0.2908	0.2894	-0.0014
317	0	Correlation	0.2447	0.2447	0

Test Statistics (mSec)

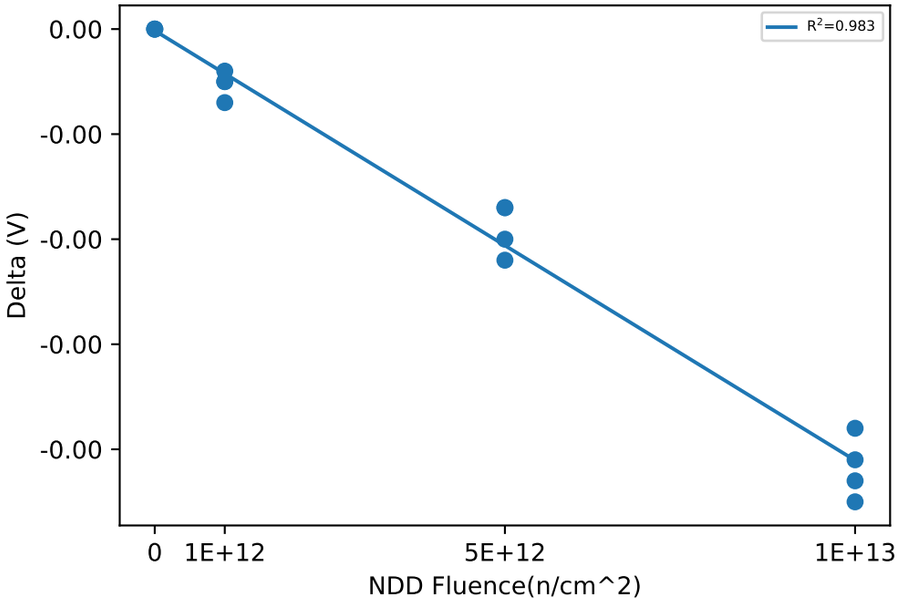
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2447	0.2624	0.2908	0.024843	0.2438	0.2593	0.2894	0.026071	-0.0079	-0.0031	0	0.0042154
1e+12	0.2129	0.22158	0.229	0.0085301	0.216	0.22368	0.2326	0.0074714	-0.0128	0.0021	0.017	0.012662
5e+12	0.2072	0.23947	0.2864	0.033472	0.2199	0.24505	0.2863	0.028982	-0.0027	0.005575	0.0127	0.0081246
1e+13	0.228	0.23613	0.2518	0.010745	0.2237	0.23097	0.2408	0.0075173	-0.011	-0.00515	-0.0012	0.0046979

Device Test: 6.156; VHYS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



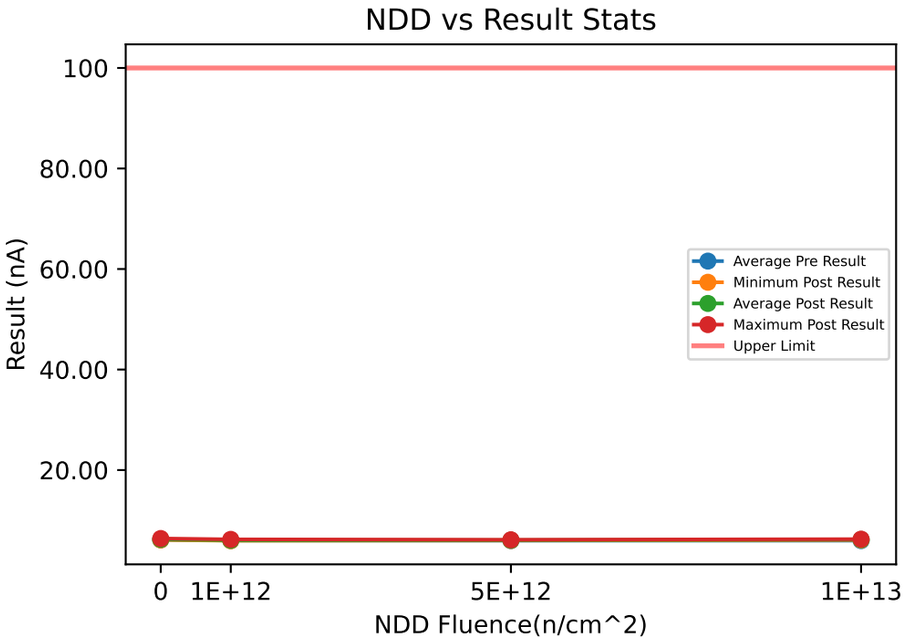
Test Results (Lower Limit = 1.164, Upper Limit = 1.236 (V))

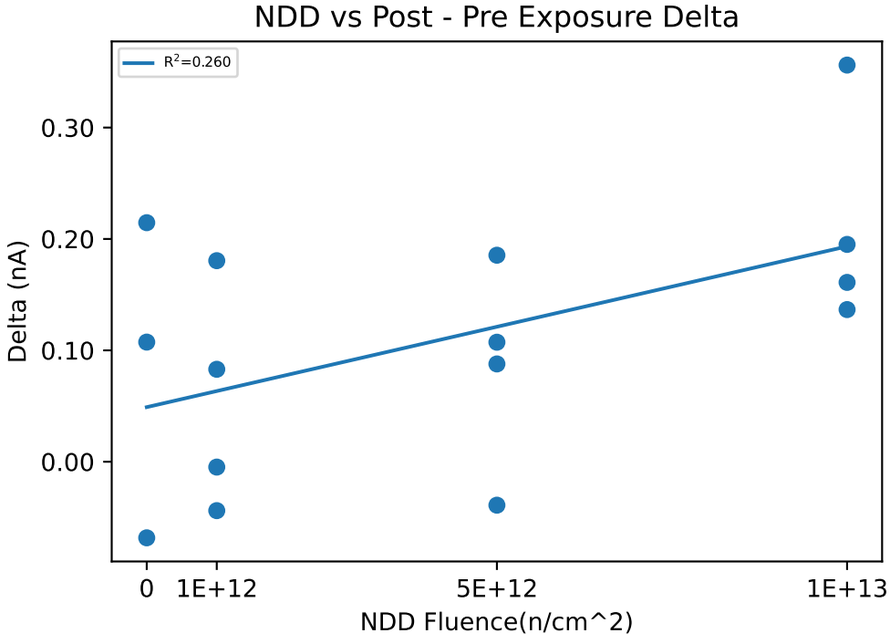
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.2002	1.1998	-0.0004
304	1e+12	NDD Unbiased	1.2	1.1995	-0.0005
305	1e+12	NDD Unbiased	1.2002	1.1995	-0.0007
306	1e+12	NDD Unbiased	1.2	1.1995	-0.0005
307	5e+12	NDD Unbiased	1.199	1.1973	-0.0017
308	5e+12	NDD Unbiased	1.1993	1.1973	-0.002
309	5e+12	NDD Unbiased	1.2004	1.1987	-0.0017
310	5e+12	NDD Unbiased	1.2001	1.1979	-0.0022
311	1e+13	NDD Unbiased	1.2004	1.1963	-0.0041
312	1e+13	NDD Unbiased	1.1986	1.1948	-0.0038
313	1e+13	NDD Unbiased	1.2001	1.1958	-0.0043
314	1e+13	NDD Unbiased	1.2006	1.1961	-0.0045
315	0	Correlation	1.2	1.2	0
316	0	Correlation	1.2001	1.2001	0
317	0	Correlation	1.1994	1.1994	0

Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1994	1.1998	1.2001	0.00037859	1.1994	1.1998	1.2001	0.00037859	0	0	0	0
1e+12	1.2	1.2001	1.2002	0.00011547	1.1995	1.1996	1.1998	0.00015	-0.0007	-0.000525	-0.0004	0.00012583
5e+12	1.199	1.1997	1.2004	0.00065828	1.1973	1.1978	1.1987	0.00066332	-0.0022	-0.0019	-0.0017	0.00024495
1e+13	1.1986	1.1999	1.2006	0.00090692	1.1948	1.1957	1.1963	0.00066583	-0.0045	-0.004175	-0.0038	0.00029861

Device Test: 6.16; ILKG_SR_UVLO





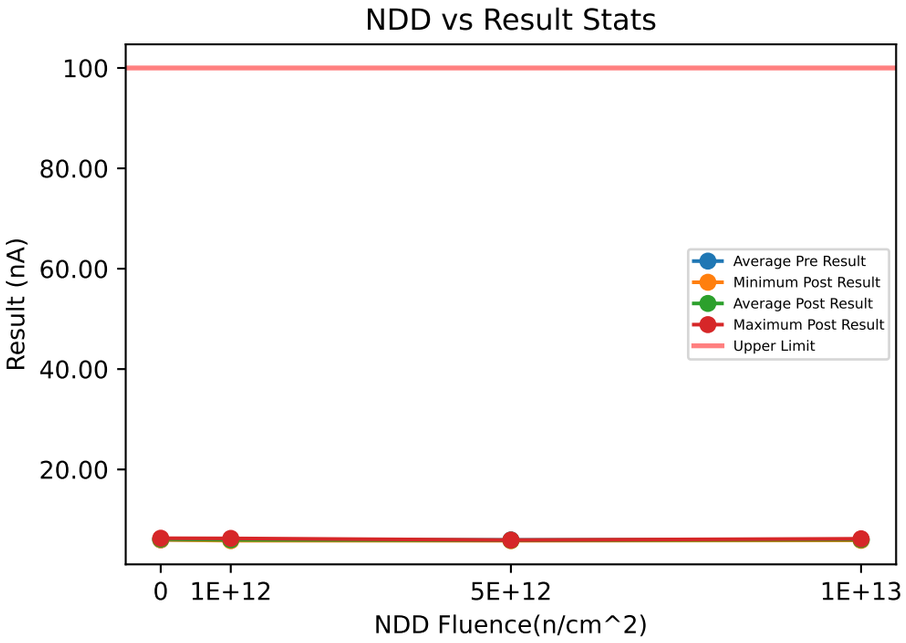
Test Results (Upper Limit = 100.0 (nA))

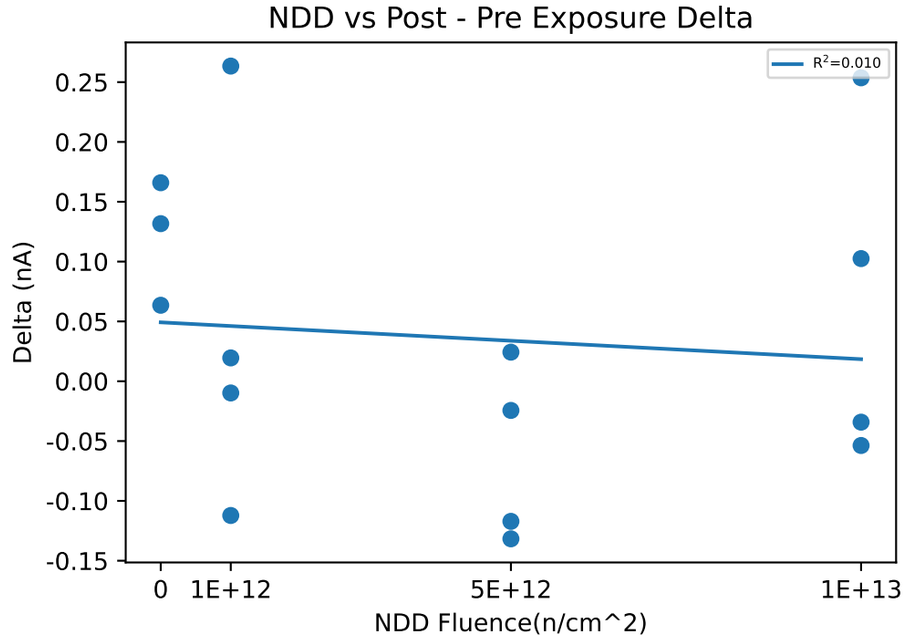
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	6.0292	6.2097	0.1805
304	1e+12	NDD Unbiased	5.9999	5.956	-0.0439
305	1e+12	NDD Unbiased	5.9462	6.0292	0.083
306	1e+12	NDD Unbiased	5.9462	5.9414	-0.0048
307	5e+12	NDD Unbiased	5.956	6.0633	0.1073
308	5e+12	NDD Unbiased	6.034	5.995	-0.039
309	5e+12	NDD Unbiased	6.0438	6.1316	0.0878
310	5e+12	NDD Unbiased	5.8145	5.9999	0.1854
311	1e+13	NDD Unbiased	5.9121	6.1072	0.1951
312	1e+13	NDD Unbiased	6.117	6.2536	0.1366
313	1e+13	NDD Unbiased	5.7316	6.0877	0.3561
314	1e+13	NDD Unbiased	6.0779	6.2389	0.161
315	0	Correlation	6.2194	6.1511	-0.0683
316	0	Correlation	5.9901	6.0975	0.1074
317	0	Correlation	6.1658	6.3804	0.2146

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.9901	6.1251	6.2194	0.11995	6.0975	6.2097	6.3804	0.15027	-0.0683	0.084567	0.2146	0.14283
1e+12	5.9462	5.9804	6.0292	0.041235	5.9414	6.0341	6.2097	0.12322	-0.0439	0.0537	0.1805	0.099808
5e+12	5.8145	5.9621	6.0438	0.10594	5.995	6.0474	6.1316	0.064147	-0.039	0.085375	0.1854	0.093025
1e+13	5.7316	5.9596	6.117	0.17608	6.0877	6.1719	6.2536	0.086486	0.1366	0.2122	0.3561	0.098888

Device Test: 6.17; ILKG_SR_UVLO





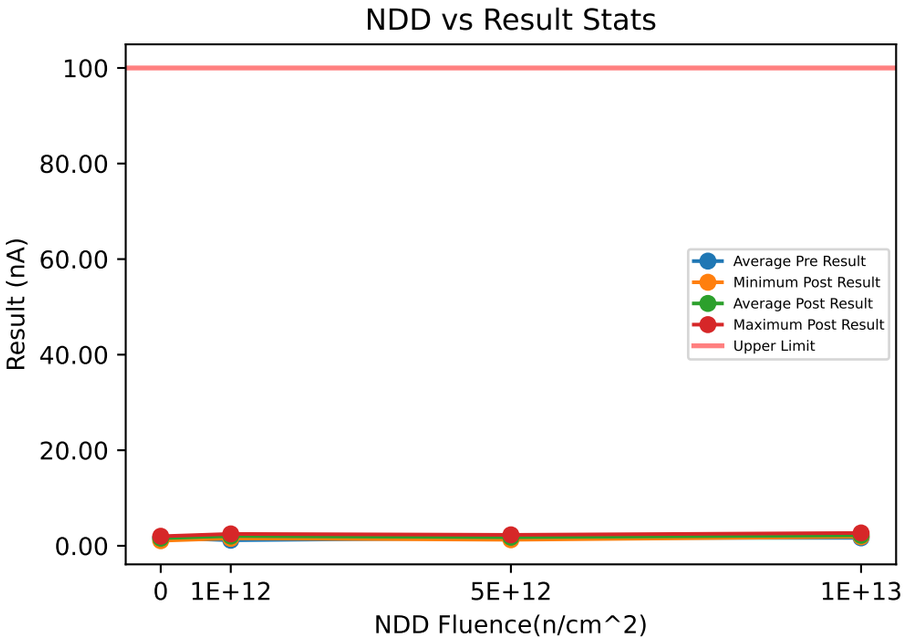
Test Results (Upper Limit = 100.0 (nA))

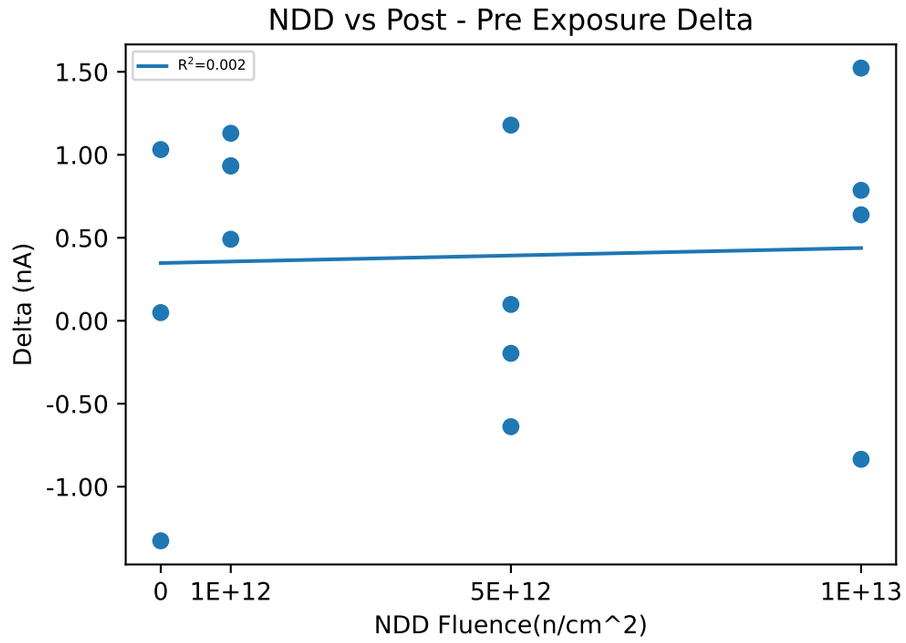
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	5.9999	6.2633	0.2634
304	1e+12	NDD Unbiased	5.9218	5.8096	-0.1122
305	1e+12	NDD Unbiased	5.8877	5.8779	-0.0098
306	1e+12	NDD Unbiased	5.917	5.9365	0.0195
307	5e+12	NDD Unbiased	5.956	5.9316	-0.0244
308	5e+12	NDD Unbiased	5.8975	5.9218	0.0243
309	5e+12	NDD Unbiased	6.0389	5.9072	-0.1317
310	5e+12	NDD Unbiased	5.917	5.7999	-0.1171
311	1e+13	NDD Unbiased	5.8779	5.9804	0.1025
312	1e+13	NDD Unbiased	5.9365	6.1901	0.2536
313	1e+13	NDD Unbiased	5.9121	5.8779	-0.0342
314	1e+13	NDD Unbiased	6.0731	6.0194	-0.0537
315	0	Correlation	5.9901	6.0536	0.0635
316	0	Correlation	5.8096	5.9755	0.1659
317	0	Correlation	6.1658	6.2975	0.1317

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.8096	5.9885	6.1658	0.17811	5.9755	6.1089	6.2975	0.16796	0.0635	0.12037	0.1659	0.052132
1e+12	5.8877	5.9316	5.9999	0.047963	5.8096	5.9718	6.2633	0.20112	-0.1122	0.040225	0.2634	0.15914
5e+12	5.8975	5.9524	6.0389	0.062616	5.7999	5.8901	5.9316	0.06098	-0.1317	-0.062225	0.0243	0.074734
1e+13	5.8779	5.9499	6.0731	0.085578	5.8779	6.017	6.1901	0.12995	-0.0537	0.06705	0.2536	0.14247

Device Test: 6.18; ILKG_SENSE





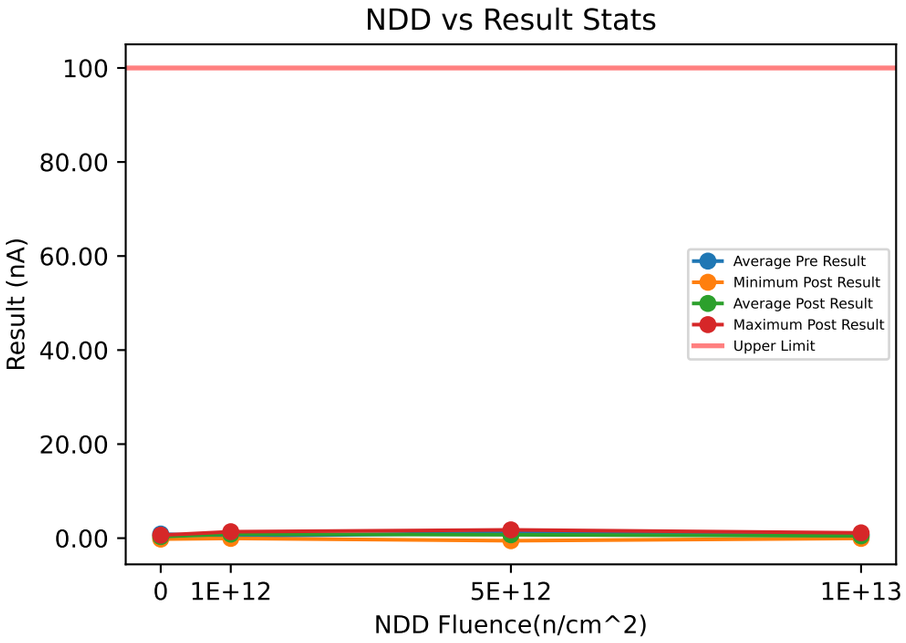
Test Results (Upper Limit = 100.0 (nA))

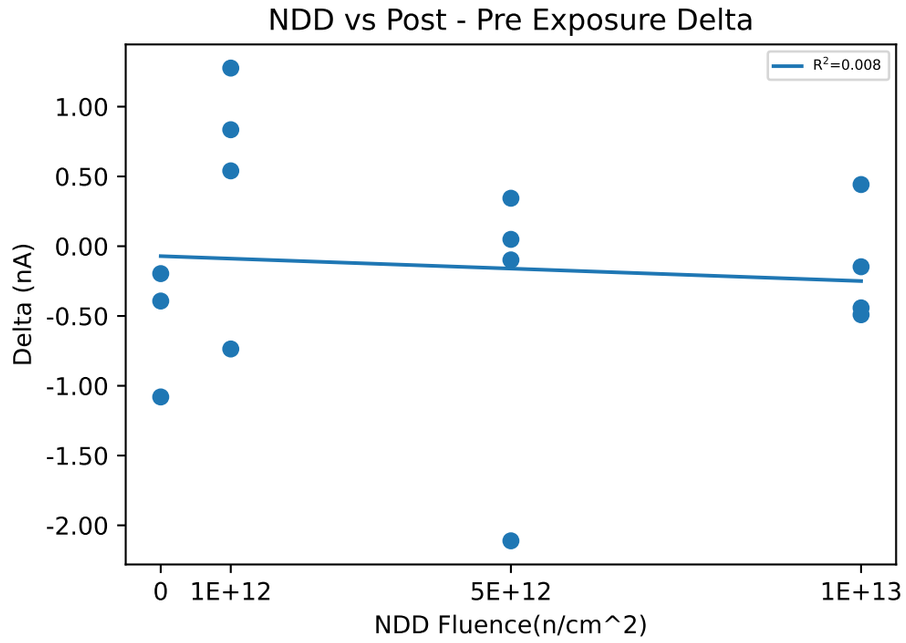
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.1601	2.2898	1.1297
304	1e+12	NDD Unbiased	0.6199	1.553	0.9331
305	1e+12	NDD Unbiased	0.8654	1.7986	0.9332
306	1e+12	NDD Unbiased	1.9951	2.4862	0.4911
307	5e+12	NDD Unbiased	1.8968	1.9951	0.0983
308	5e+12	NDD Unbiased	1.4548	1.2584	-0.1964
309	5e+12	NDD Unbiased	1.111	2.2898	1.1788
310	5e+12	NDD Unbiased	2.2406	1.6022	-0.6384
311	1e+13	NDD Unbiased	1.1601	2.6827	1.5226
312	1e+13	NDD Unbiased	2.83	1.9951	-0.8349
313	1e+13	NDD Unbiased	1.553	2.1915	0.6385
314	1e+13	NDD Unbiased	1.111	1.8968	0.7858
315	0	Correlation	1.6513	1.7004	0.0491
316	0	Correlation	2.388	1.0619	-1.3261
317	0	Correlation	0.9637	1.9951	1.0314

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9637	1.6677	2.388	0.71229	1.0619	1.5858	1.9951	0.47704	-1.3261	-0.081867	1.0314	1.1842
1e+12	0.6199	1.1601	1.9951	0.59886	1.553	2.0319	2.4862	0.43076	0.4911	0.87178	1.1297	0.27017
5e+12	1.111	1.6758	2.2406	0.4952	1.2584	1.7864	2.2898	0.45081	-0.6384	0.11057	1.1788	0.77383
1e+13	1.111	1.6635	2.83	0.80241	1.8968	2.1915	2.6827	0.34962	-0.8349	0.528	1.5226	0.98749

Device Test: 6.19; ILKG_SENSE





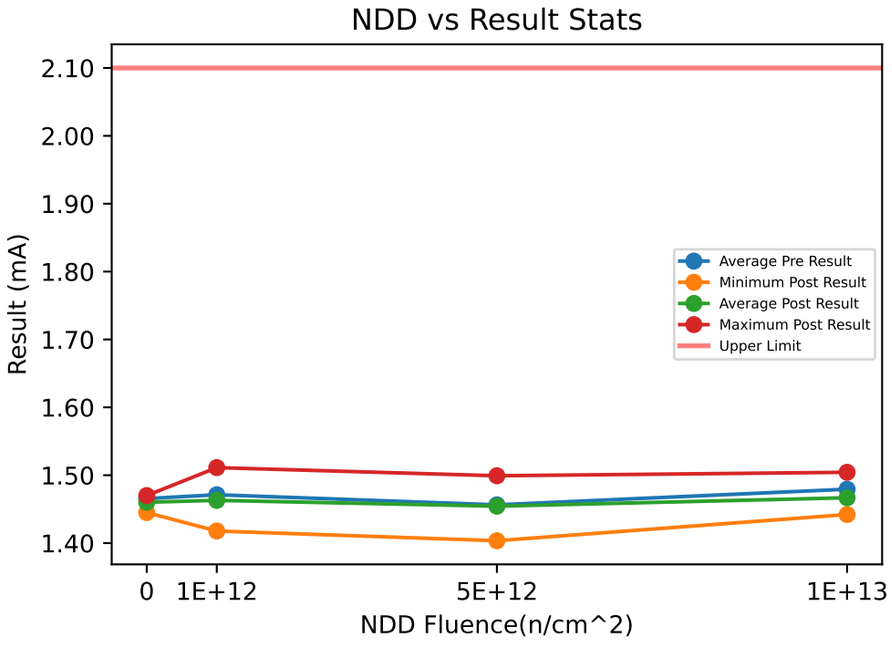
Test Results (Upper Limit = 100.0 (nA))

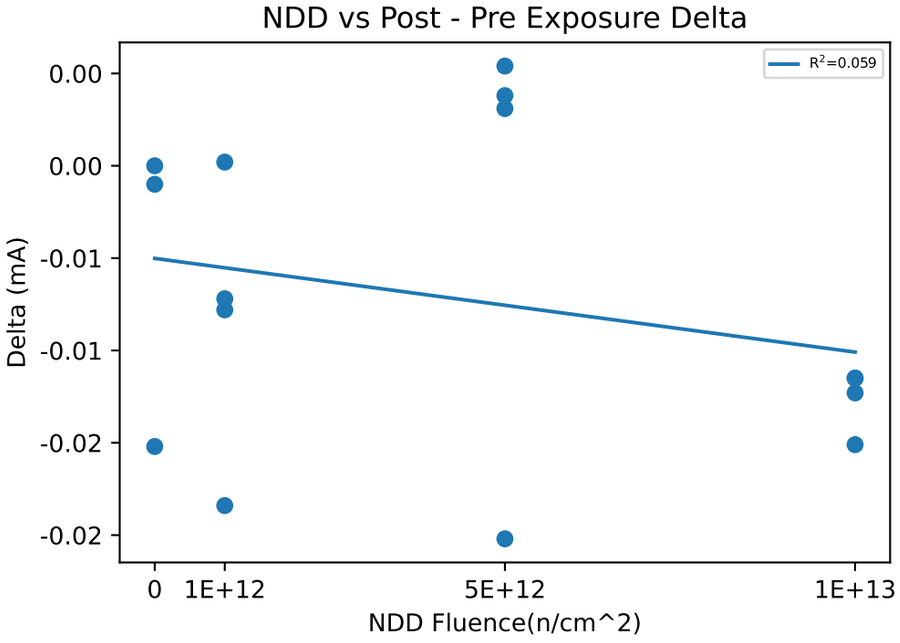
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.0424	1.3188	1.2764
304	1e+12	NDD Unbiased	0.6806	-0.0558	-0.7364
305	1e+12	NDD Unbiased	0.5333	1.3679	0.8346
306	1e+12	NDD Unbiased	0.2388	0.7788	0.54
307	5e+12	NDD Unbiased	1.4661	1.3679	-0.0982
308	5e+12	NDD Unbiased	-0.0558	0.2879	0.3437
309	5e+12	NDD Unbiased	1.5643	-0.5467	-2.111
310	5e+12	NDD Unbiased	1.7116	1.7606	0.049
311	1e+13	NDD Unbiased	0.6806	1.1224	0.4418
312	1e+13	NDD Unbiased	1.0243	0.5333	-0.491
313	1e+13	NDD Unbiased	0.0915	-0.0558	-0.1473
314	1e+13	NDD Unbiased	0.7788	0.337	-0.4418
315	0	Correlation	0.7297	0.5333	-0.1964
316	0	Correlation	1.0243	0.6315	-0.3928
317	0	Correlation	0.877	-0.2031	-1.0801

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7297	0.877	1.0243	0.1473	-0.2031	0.32057	0.6315	0.45616	-1.0801	-0.55643	-0.1964	0.46402
1e+12	0.0424	0.37377	0.6806	0.2873	-0.0558	0.85242	1.3679	0.66169	-0.7364	0.47865	1.2764	0.86472
5e+12	-0.0558	1.1715	1.7116	0.82443	-0.5467	0.71742	1.7606	1.0478	-2.111	-0.45413	0.3437	1.1198
1e+13	0.0915	0.6438	1.0243	0.39556	-0.0558	0.48423	1.1224	0.49091	-0.491	-0.15957	0.4418	0.42868

Device Test: 6.2; ISD





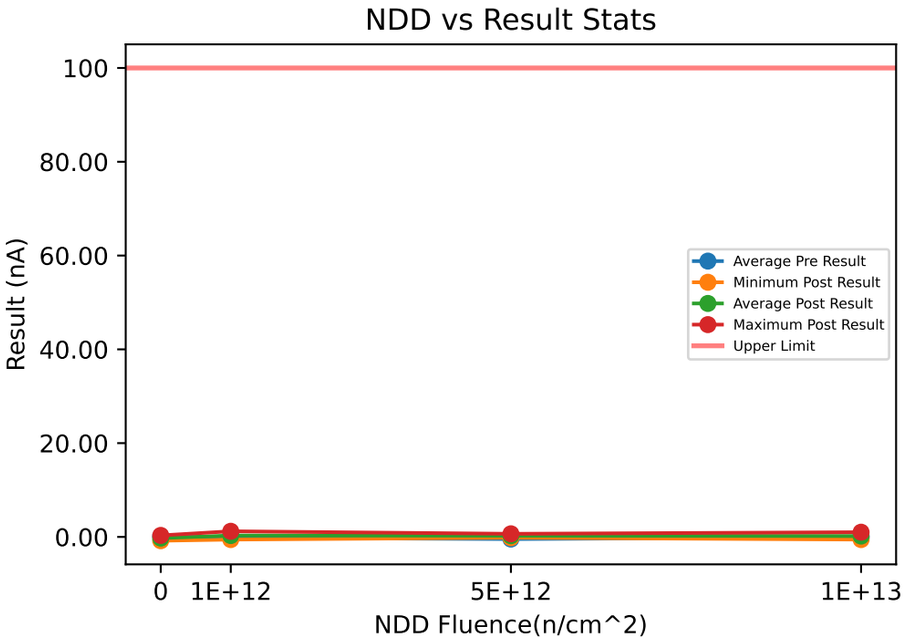
Test Results (Upper Limit = 2.1 (mA))

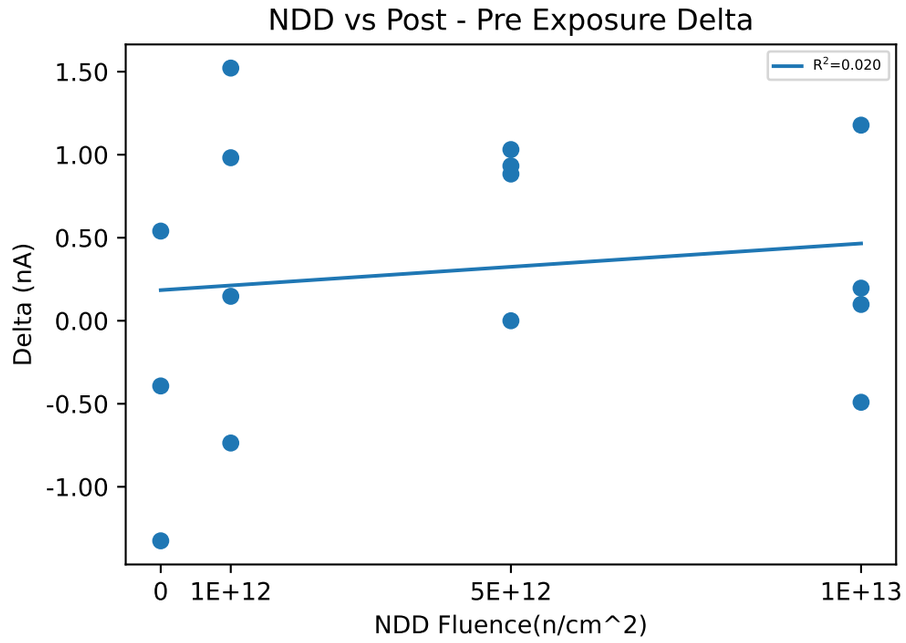
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.4858	1.4674	-0.0184
304	1e+12	NDD Unbiased	1.4552	1.4554	0.0002
305	1e+12	NDD Unbiased	1.425	1.4178	-0.0072
306	1e+12	NDD Unbiased	1.519	1.5112	-0.0078
307	5e+12	NDD Unbiased	1.4954	1.4992	0.0038
308	5e+12	NDD Unbiased	1.4004	1.4035	0.0031
309	5e+12	NDD Unbiased	1.4716	1.4514	-0.0202
310	5e+12	NDD Unbiased	1.458	1.4634	0.0054
311	1e+13	NDD Unbiased	1.4776	1.4625	-0.0151
312	1e+13	NDD Unbiased	1.4697	1.4582	-0.0115
313	1e+13	NDD Unbiased	1.5158	1.5043	-0.0115
314	1e+13	NDD Unbiased	1.4544	1.4421	-0.0123
315	0	Correlation	1.4655	1.4655	0
316	0	Correlation	1.4852	1.47	-0.0152
317	0	Correlation	1.446	1.445	-0.001

Test Statistics (mA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.446	1.4656	1.4852	0.0196	1.445	1.4602	1.47	0.013326	-0.0152	-0.0054	0	0.0085018
1e+12	1.425	1.4712	1.519	0.040367	1.4178	1.4629	1.5112	0.038485	-0.0184	-0.0083	0.0002	0.0076533
5e+12	1.4004	1.4564	1.4954	0.040376	1.4035	1.4544	1.4992	0.03953	-0.0202	-0.001975	0.0054	0.012188
1e+13	1.4544	1.4794	1.5158	0.026123	1.4421	1.4668	1.5043	0.026513	-0.0151	-0.0126	-0.0115	0.0017088

Device Test: 6.20; ILKG_SENSE





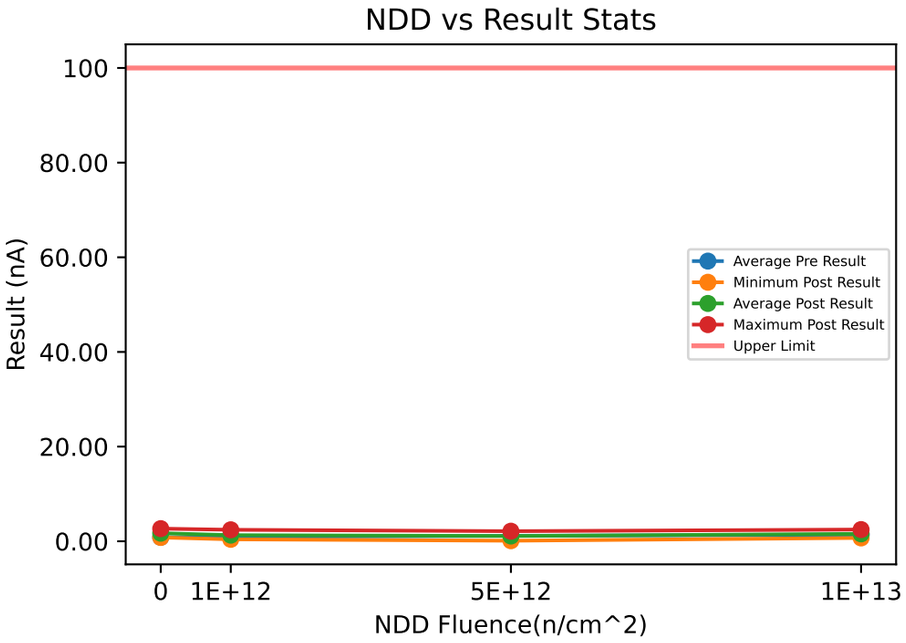
Test Results (Upper Limit = 100.0 (nA))

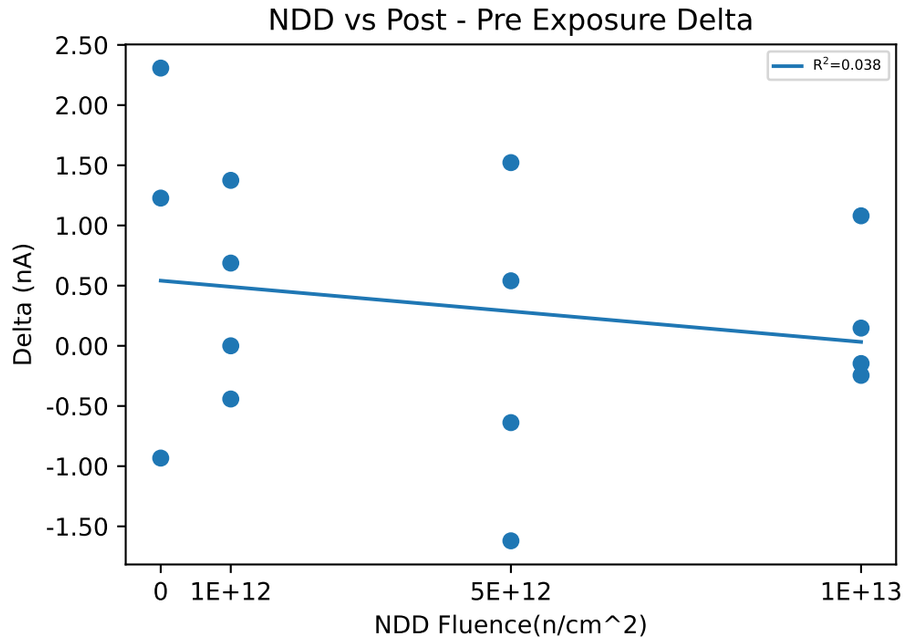
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.2227	1.2045	0.9818
304	1e+12	NDD Unbiased	0.2718	-0.4646	-0.7364
305	1e+12	NDD Unbiased	-0.71	-0.5628	0.1472
306	1e+12	NDD Unbiased	-0.5137	1.0081	1.5218
307	5e+12	NDD Unbiased	-0.17	-0.17	0
308	5e+12	NDD Unbiased	-0.4646	0.4681	0.9327
309	5e+12	NDD Unbiased	-0.8082	0.0754	0.8836
310	5e+12	NDD Unbiased	-0.3664	0.6645	1.0309
311	1e+13	NDD Unbiased	-0.17	0.0263	0.1963
312	1e+13	NDD Unbiased	-0.17	1.0081	1.1781
313	1e+13	NDD Unbiased	-0.0718	-0.5628	-0.491
314	1e+13	NDD Unbiased	0.1736	0.2718	0.0982
315	0	Correlation	0.1245	-0.2682	-0.3927
316	0	Correlation	0.5172	-0.8082	-1.3254
317	0	Correlation	-0.2191	0.3209	0.54

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.2191	0.14087	0.5172	0.36842	-0.8082	-0.25183	0.3209	0.56473	-1.3254	-0.3927	0.54	0.9327
1e+12	-0.71	-0.1823	0.2718	0.50283	-0.5628	0.2963	1.2045	0.93959	-0.7364	0.4786	1.5218	0.98785
5e+12	-0.8082	-0.4523	-0.17	0.26701	-0.17	0.2595	0.6645	0.37679	0	0.7118	1.0309	0.47847
1e+13	-0.17	-0.05955	0.1736	0.16218	-0.5628	0.18585	1.0081	0.65049	-0.491	0.2454	1.1781	0.69193

Device Test: 6.21; ILKG_SENSE





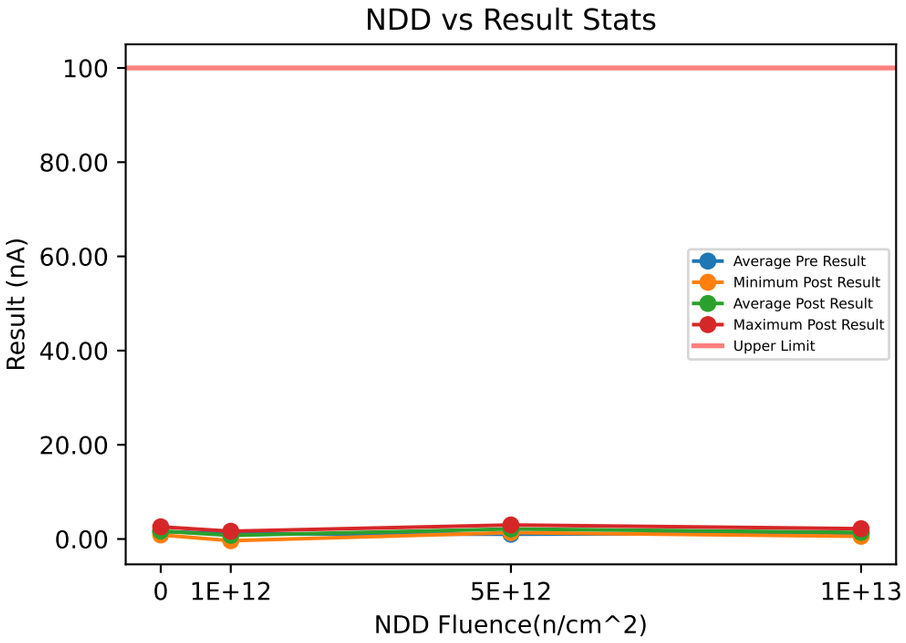
Test Results (Upper Limit = 100.0 (nA))

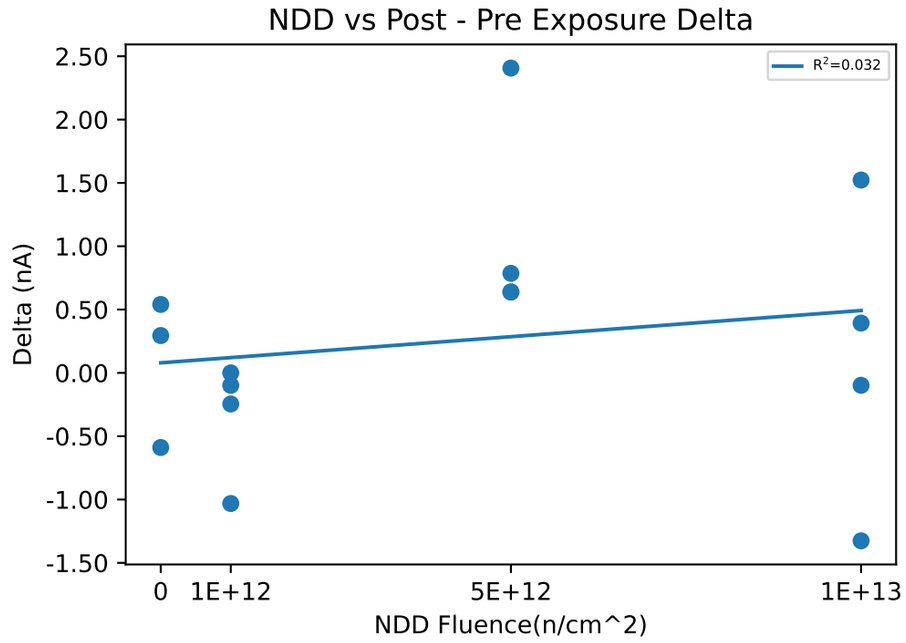
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.0467	2.4214	1.3747
304	1e+12	NDD Unbiased	0.9976	1.6849	0.6873
305	1e+12	NDD Unbiased	0.4084	0.4084	0
306	1e+12	NDD Unbiased	1.0958	0.6539	-0.4419
307	5e+12	NDD Unbiased	0.1629	1.6849	1.522
308	5e+12	NDD Unbiased	1.734	0.1138	-1.6202
309	5e+12	NDD Unbiased	1.1448	0.5066	-0.6382
310	5e+12	NDD Unbiased	1.5867	2.1268	0.5401
311	1e+13	NDD Unbiased	2.2741	2.0286	-0.2455
312	1e+13	NDD Unbiased	0.8994	1.0467	0.1473
313	1e+13	NDD Unbiased	1.3903	2.4704	1.0801
314	1e+13	NDD Unbiased	0.8503	0.703	-0.1473
315	0	Correlation	1.734	0.8012	-0.9328
316	0	Correlation	0.4084	1.6358	1.2274
317	0	Correlation	0.3593	2.6668	2.3075

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.3593	0.8339	1.734	0.7799	0.8012	1.7013	2.6668	0.93452	-0.9328	0.86737	2.3075	1.6499
1e+12	0.4084	0.88713	1.0958	0.32166	0.4084	1.2922	2.4214	0.93414	-0.4419	0.40503	1.3747	0.79609
5e+12	0.1629	1.1571	1.734	0.70851	0.1138	1.108	2.1268	0.95234	-1.6202	-0.049075	1.522	1.37
1e+13	0.8503	1.3535	2.2741	0.66037	0.703	1.5622	2.4704	0.8259	-0.2455	0.20865	1.0801	0.60447

Device Test: 6.22; ILKG_SENSE





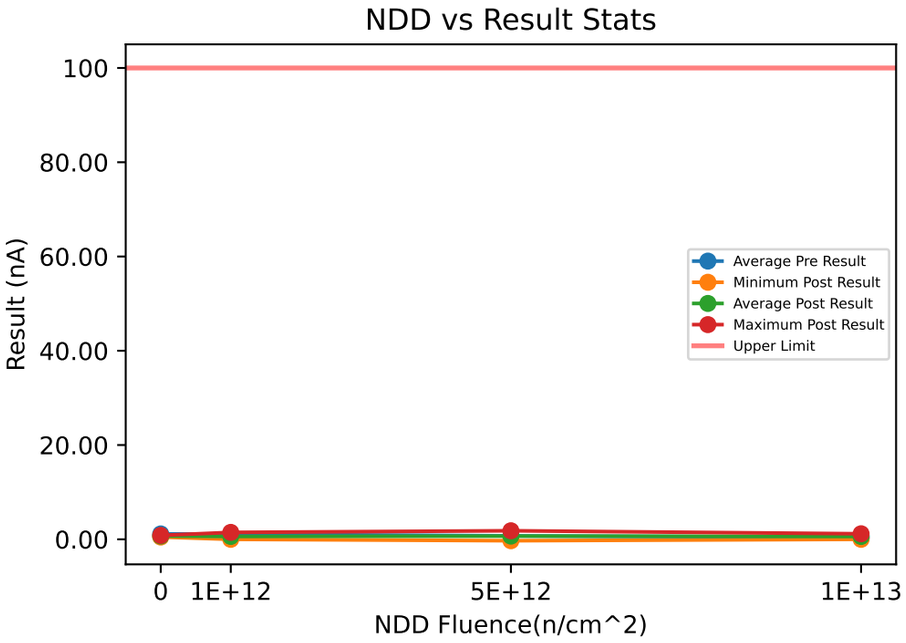
Test Results (Upper Limit = 100.0 (nA))

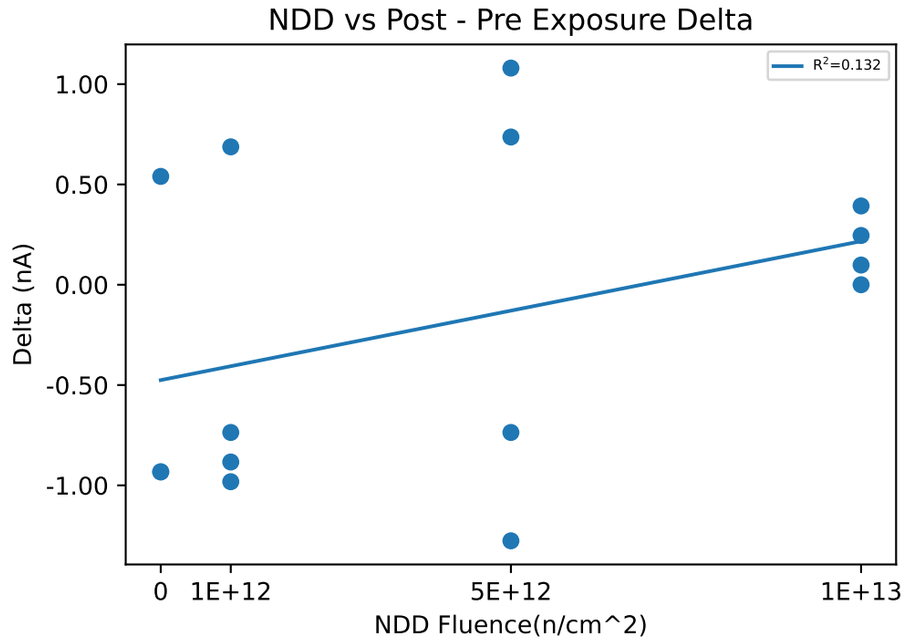
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.7672	0.5216	-0.2456
304	1e+12	NDD Unbiased	1.3566	1.2584	-0.0982
305	1e+12	NDD Unbiased	1.6513	1.6513	0
306	1e+12	NDD Unbiased	0.669	-0.3624	-1.0314
307	5e+12	NDD Unbiased	0.7181	1.3566	0.6385
308	5e+12	NDD Unbiased	1.4057	2.0442	0.6385
309	5e+12	NDD Unbiased	0.5708	2.9774	2.4066
310	5e+12	NDD Unbiased	1.3566	2.1424	0.7858
311	1e+13	NDD Unbiased	0.669	2.1915	1.5225
312	1e+13	NDD Unbiased	2.4371	1.111	-1.3261
313	1e+13	NDD Unbiased	1.3075	1.7004	0.3929
314	1e+13	NDD Unbiased	0.669	0.5708	-0.0982
315	0	Correlation	1.4548	0.8654	-0.5894
316	0	Correlation	2.0442	2.5845	0.5403
317	0	Correlation	1.3075	1.6022	0.2947

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.3075	1.6022	2.0442	0.38983	0.8654	1.684	2.5845	0.86247	-0.5894	0.081867	0.5403	0.59416
1e+12	0.669	1.111	1.6513	0.4711	-0.3624	0.76722	1.6513	0.8868	-1.0314	-0.3438	0	0.46938
5e+12	0.5708	1.0128	1.4057	0.43003	1.3566	2.1301	2.9774	0.66427	0.6385	1.1174	2.4066	0.8623
1e+13	0.669	1.2707	2.4371	0.83385	0.5708	1.3934	2.1915	0.70419	-1.3261	0.12277	1.5225	1.1804

Device Test: 6.23; ILKG_SENSE





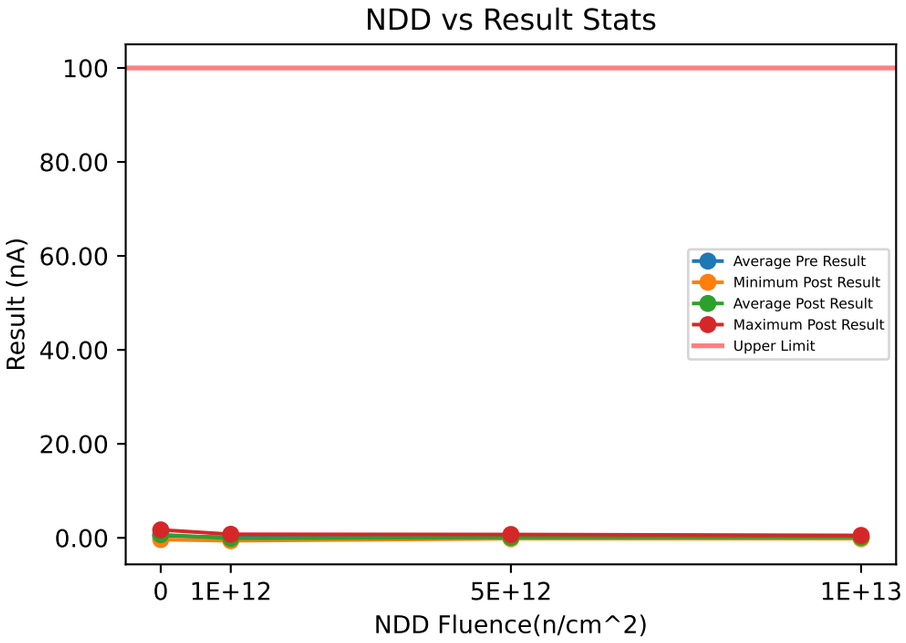
Test Results (Upper Limit = 100.0 (nA))

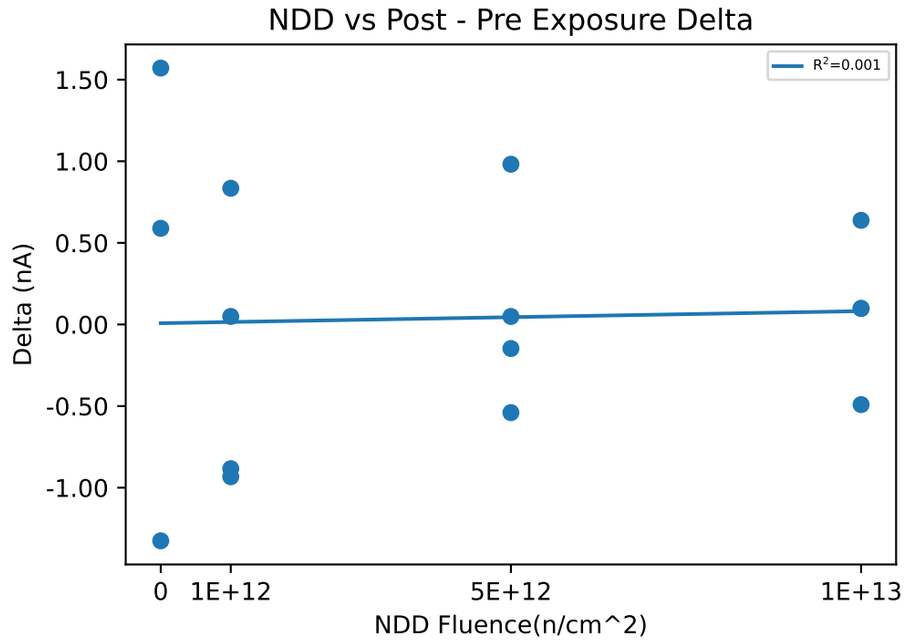
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.9752	-0.0067	-0.9819
304	1e+12	NDD Unbiased	1.1224	0.2388	-0.8836
305	1e+12	NDD Unbiased	1.4661	0.7297	-0.7364
306	1e+12	NDD Unbiased	0.7788	1.4661	0.6873
307	5e+12	NDD Unbiased	0.7297	1.8097	1.08
308	5e+12	NDD Unbiased	-0.1049	0.6315	0.7364
309	5e+12	NDD Unbiased	0.9752	-0.3013	-1.2765
310	5e+12	NDD Unbiased	1.3188	0.5824	-0.7364
311	1e+13	NDD Unbiased	0.6315	0.6315	0
312	1e+13	NDD Unbiased	-0.2522	-0.0067	0.2455
313	1e+13	NDD Unbiased	0.4842	0.5824	0.0982
314	1e+13	NDD Unbiased	0.7788	1.1715	0.3927
315	0	Correlation	1.7606	0.8279	-0.9327
316	0	Correlation	0.2388	0.7788	0.54
317	0	Correlation	1.417	0.4842	-0.9328

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2388	1.1388	1.7606	0.79813	0.4842	0.69697	0.8279	0.18589	-0.9328	-0.44183	0.54	0.85029
1e+12	0.7788	1.0856	1.4661	0.29009	-0.0067	0.60698	1.4661	0.64944	-0.9819	-0.47865	0.6873	0.78382
5e+12	-0.1049	0.7297	1.3188	0.60659	-0.3013	0.68058	1.8097	0.86623	-1.2765	-0.049125	1.08	1.1359
1e+13	-0.2522	0.41058	0.7788	0.45793	-0.0067	0.59467	1.1715	0.48162	0	0.1841	0.3927	0.17181

Device Test: 6.24; ILKG_SENSE





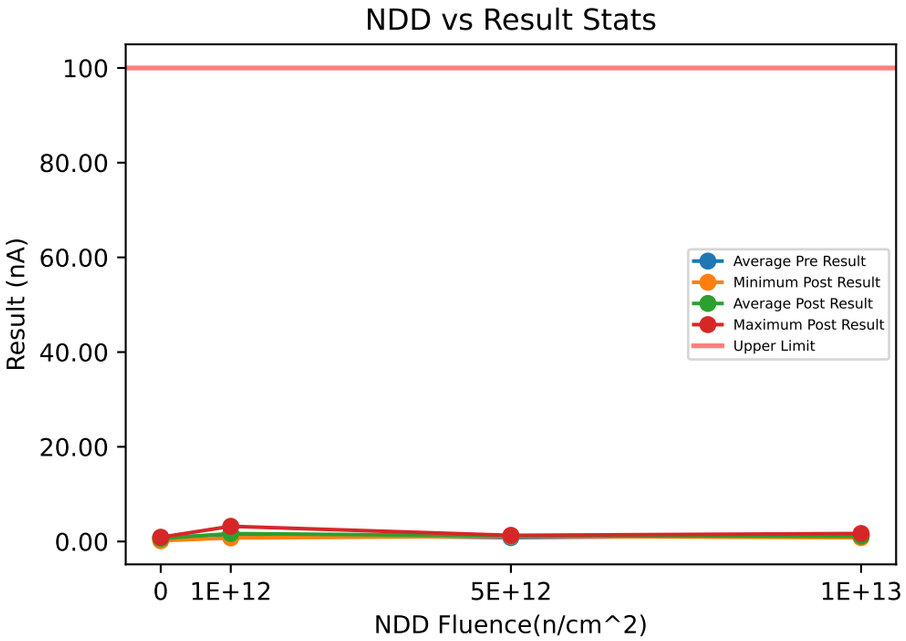
Test Results (Upper Limit = 100.0 (nA))

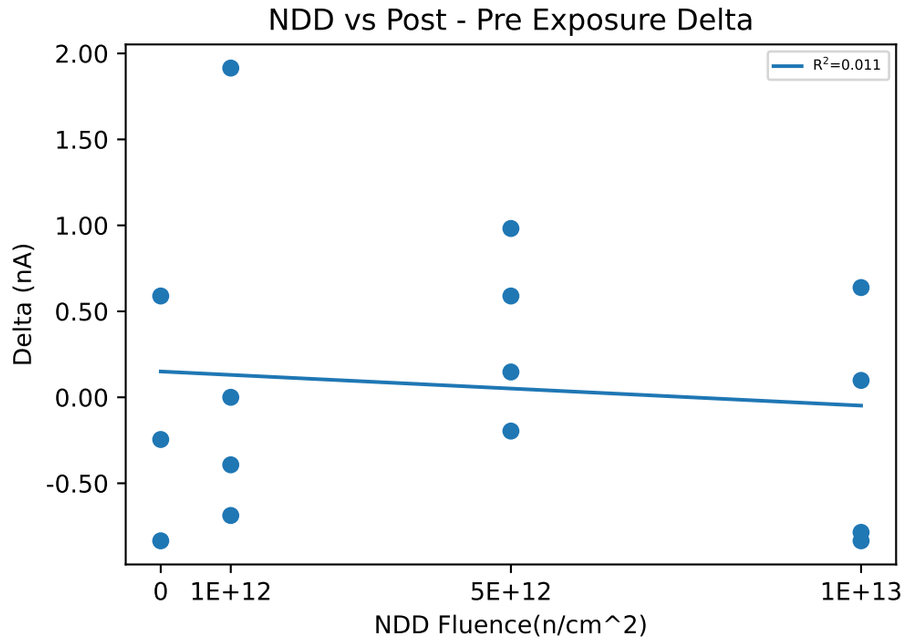
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.4191	-0.5137	-0.9328
304	1e+12	NDD Unbiased	0.2718	-0.6118	-0.8836
305	1e+12	NDD Unbiased	-0.1209	-0.0718	0.0491
306	1e+12	NDD Unbiased	-0.0718	0.7627	0.8345
307	5e+12	NDD Unbiased	-0.17	-0.1209	0.0491
308	5e+12	NDD Unbiased	-0.2682	0.7136	0.9818
309	5e+12	NDD Unbiased	0.37	-0.17	-0.54
310	5e+12	NDD Unbiased	0.1736	0.0263	-0.1473
311	1e+13	NDD Unbiased	0.5663	0.0754	-0.4909
312	1e+13	NDD Unbiased	-0.2682	-0.17	0.0982
313	1e+13	NDD Unbiased	-0.1209	0.5172	0.6381
314	1e+13	NDD Unbiased	0.0754	0.1736	0.0982
315	0	Correlation	0.1245	0.7136	0.5891
316	0	Correlation	0.1245	1.6954	1.5709
317	0	Correlation	0.9591	-0.3664	-1.3255

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1245	0.4027	0.9591	0.48186	-0.3664	0.68087	1.6954	1.0313	-1.3255	0.27817	1.5709	1.473
1e+12	-0.1209	0.12455	0.4191	0.26283	-0.6118	-0.10865	0.7627	0.62659	-0.9328	-0.2332	0.8345	0.84304
5e+12	-0.2682	0.02635	0.37	0.29726	-0.17	0.11225	0.7136	0.40948	-0.54	0.0859	0.9818	0.64553
1e+13	-0.2682	0.06315	0.5663	0.36377	-0.17	0.14905	0.5172	0.28481	-0.4909	0.0859	0.6381	0.46113

Device Test: 6.25; ILKG_SENSE





Test Results (Upper Limit = 100.0 (nA))

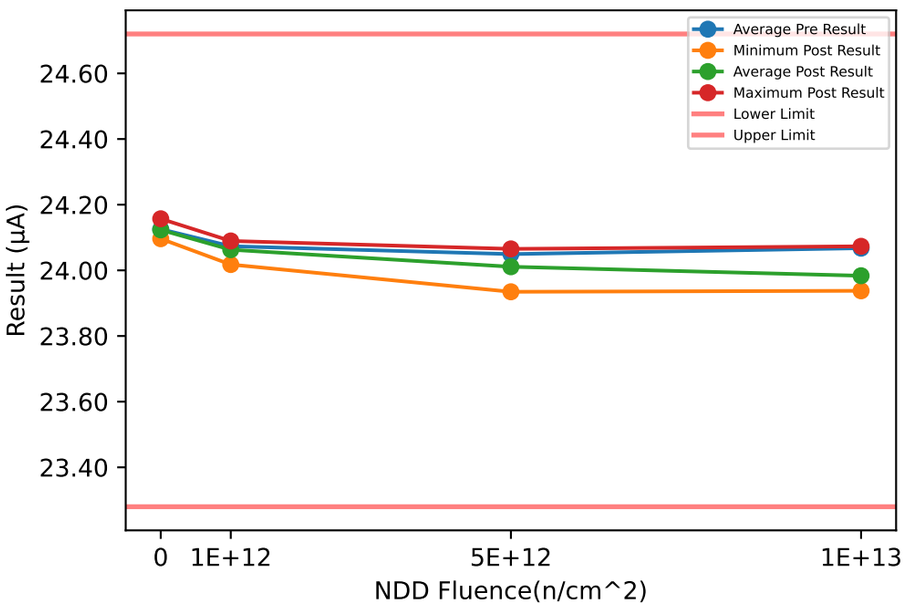
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.2921	3.2069	1.9148
304	1e+12	NDD Unbiased	1.1448	0.7521	-0.3927
305	1e+12	NDD Unbiased	1.5376	1.5376	0
306	1e+12	NDD Unbiased	1.8813	1.1939	-0.6874
307	5e+12	NDD Unbiased	0.3102	1.2921	0.9819
308	5e+12	NDD Unbiased	1.4394	1.243	-0.1964
309	5e+12	NDD Unbiased	0.5066	1.0958	0.5892
310	5e+12	NDD Unbiased	0.9976	1.1448	0.1472
311	1e+13	NDD Unbiased	1.6358	0.8012	-0.8346
312	1e+13	NDD Unbiased	1.734	0.9485	-0.7855
313	1e+13	NDD Unbiased	0.9976	1.0958	0.0982
314	1e+13	NDD Unbiased	1.0467	1.6849	0.6382
315	0	Correlation	0.2611	0.8503	0.5892
316	0	Correlation	0.9976	0.1629	-0.8347
317	0	Correlation	1.1448	0.8994	-0.2454

Test Statistics (nA)

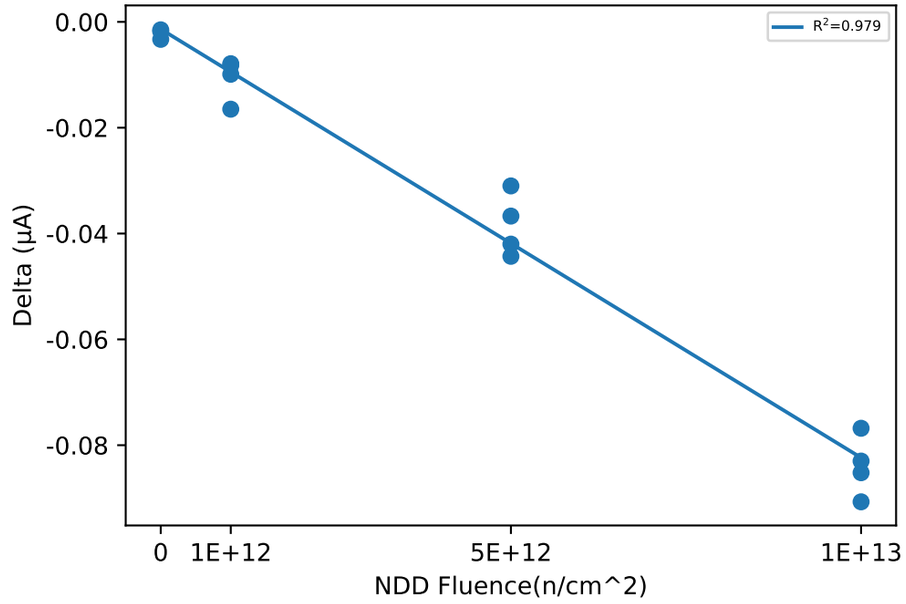
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2611	0.80117	1.1448	0.47347	0.1629	0.63753	0.8994	0.41178	-0.8347	-0.16363	0.5892	0.71546
1e+12	1.1448	1.464	1.8813	0.32197	0.7521	1.6726	3.2069	1.0722	-0.6874	0.20867	1.9148	1.1718
5e+12	0.3102	0.81345	1.4394	0.50766	1.0958	1.1939	1.2921	0.089607	-0.1964	0.38048	0.9819	0.51397
1e+13	0.9976	1.3535	1.734	0.38526	0.8012	1.1326	1.6849	0.38734	-0.8346	-0.22092	0.6382	0.71537

Device Test: 6.26; IHYS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (µA))

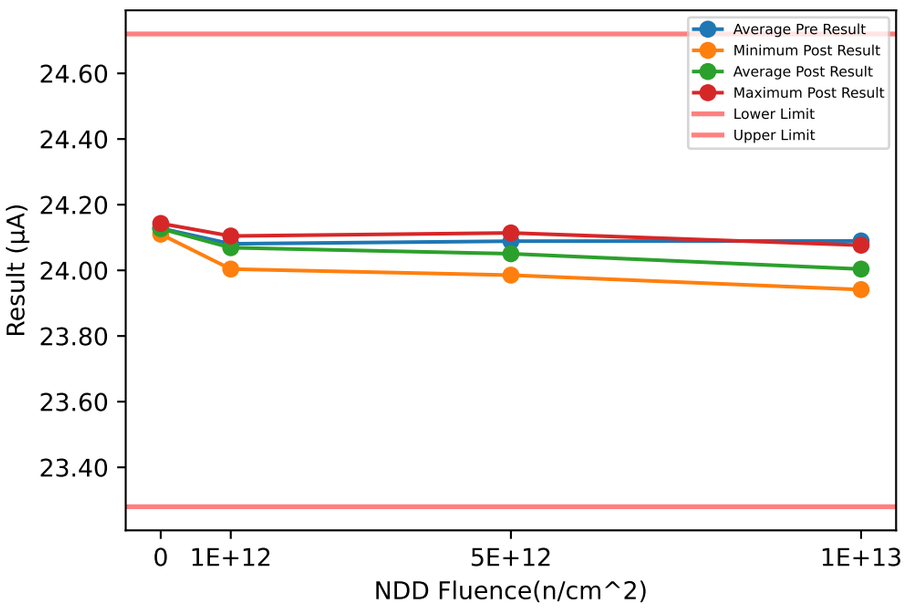
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	24.076	24.068	-0.0079
304	1e+12	NDD Unbiased	24.028	24.018	-0.0099
305	1e+12	NDD Unbiased	24.093	24.076	-0.0165
306	1e+12	NDD Unbiased	24.098	24.09	-0.0082
307	5e+12	NDD Unbiased	24.04	24.003	-0.0367
308	5e+12	NDD Unbiased	24.082	24.04	-0.042
309	5e+12	NDD Unbiased	24.096	24.065	-0.031
310	5e+12	NDD Unbiased	23.979	23.935	-0.0443
311	1e+13	NDD Unbiased	24.156	24.073	-0.083
312	1e+13	NDD Unbiased	24.015	23.938	-0.0768
313	1e+13	NDD Unbiased	24.061	23.975	-0.0852
314	1e+13	NDD Unbiased	24.039	23.948	-0.0907
315	0	Correlation	24.12	24.116	-0.0033
316	0	Correlation	24.098	24.096	-0.0018
317	0	Correlation	24.159	24.157	-0.0015

Test Statistics (µA)

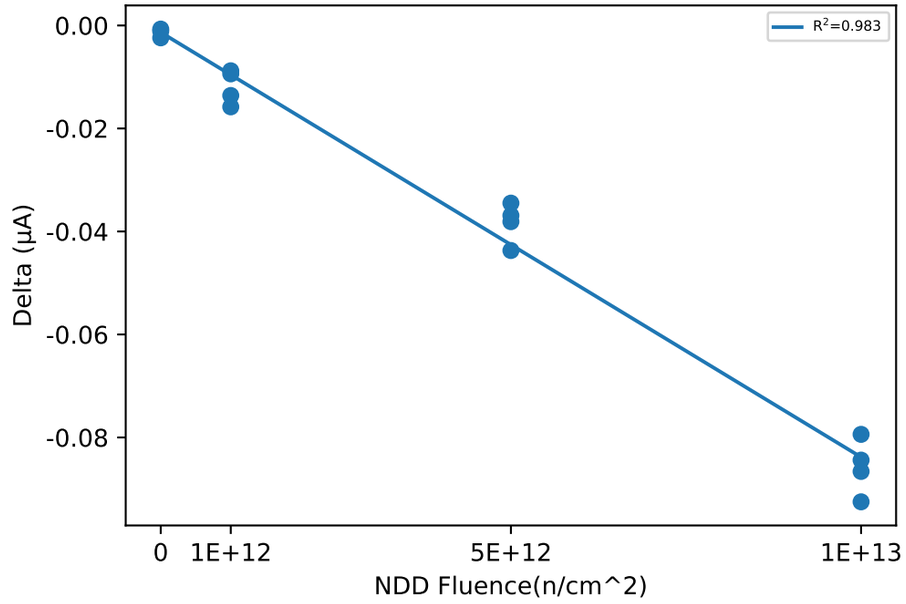
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	24.098	24.125	24.159	0.030659	24.096	24.123	24.157	0.030976	-0.0033	-0.0022	-0.0015	0.00096437
1e+12	24.028	24.073	24.098	0.032006	24.018	24.063	24.09	0.031389	-0.0165	-0.010625	-0.0079	0.0040145
5e+12	23.979	24.049	24.096	0.052692	23.935	24.011	24.065	0.056835	-0.0443	-0.0385	-0.031	0.0059268
1e+13	24.015	24.067	24.156	0.062047	23.938	23.984	24.073	0.061817	-0.0907	-0.083925	-0.0768	0.0057488

Device Test: 6.27; IHYS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (µA))

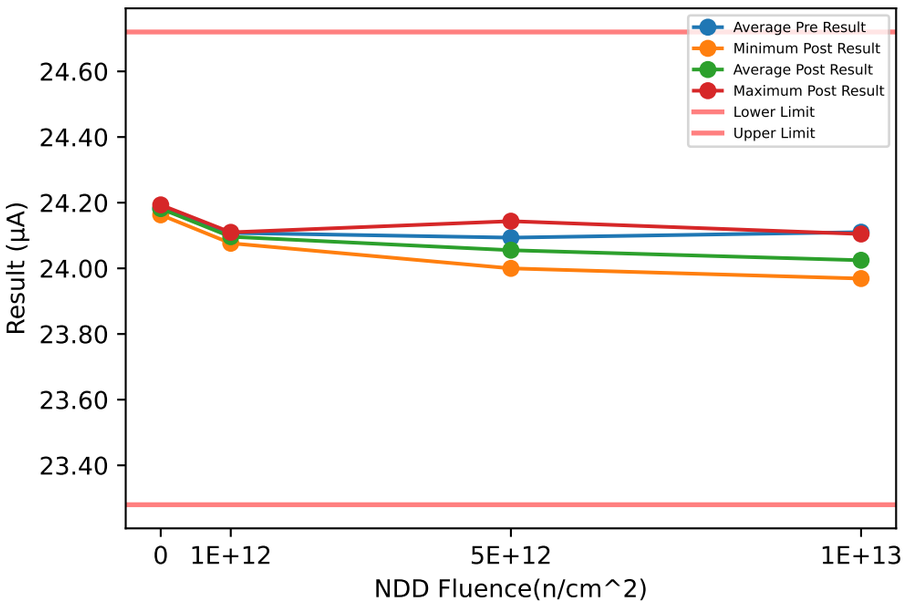
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	24.114	24.105	-0.0094
304	1e+12	NDD Unbiased	24.017	24.004	-0.0136
305	1e+12	NDD Unbiased	24.092	24.076	-0.0158
306	1e+12	NDD Unbiased	24.1	24.091	-0.0088
307	5e+12	NDD Unbiased	24.064	24.027	-0.0369
308	5e+12	NDD Unbiased	24.152	24.114	-0.0381
309	5e+12	NDD Unbiased	24.11	24.076	-0.0345
310	5e+12	NDD Unbiased	24.029	23.985	-0.0437
311	1e+13	NDD Unbiased	24.161	24.077	-0.0844
312	1e+13	NDD Unbiased	24.021	23.941	-0.0794
313	1e+13	NDD Unbiased	24.091	24.004	-0.0866
314	1e+13	NDD Unbiased	24.086	23.993	-0.0925
315	0	Correlation	24.144	24.143	-0.0011
316	0	Correlation	24.13	24.128	-0.0024
317	0	Correlation	24.111	24.11	-0.0007

Test Statistics (µA)

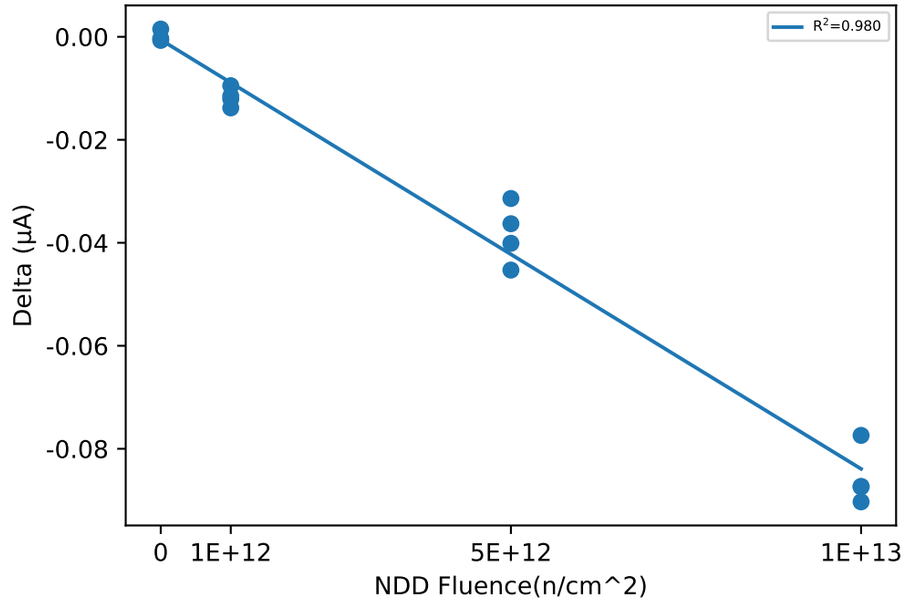
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	24.111	24.128	24.144	0.016615	24.11	24.127	24.143	0.016361	-0.0024	-0.0014	-0.0007	0.00088882
1e+12	24.017	24.081	24.114	0.043221	24.004	24.069	24.105	0.044925	-0.0158	-0.0119	-0.0088	0.0033645
5e+12	24.029	24.089	24.152	0.053736	23.985	24.051	24.114	0.056191	-0.0437	-0.0383	-0.0345	0.0038987
1e+13	24.021	24.09	24.161	0.057339	23.941	24.004	24.077	0.05574	-0.0925	-0.085725	-0.0794	0.0054292

Device Test: 6.28; IHYS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (µA))

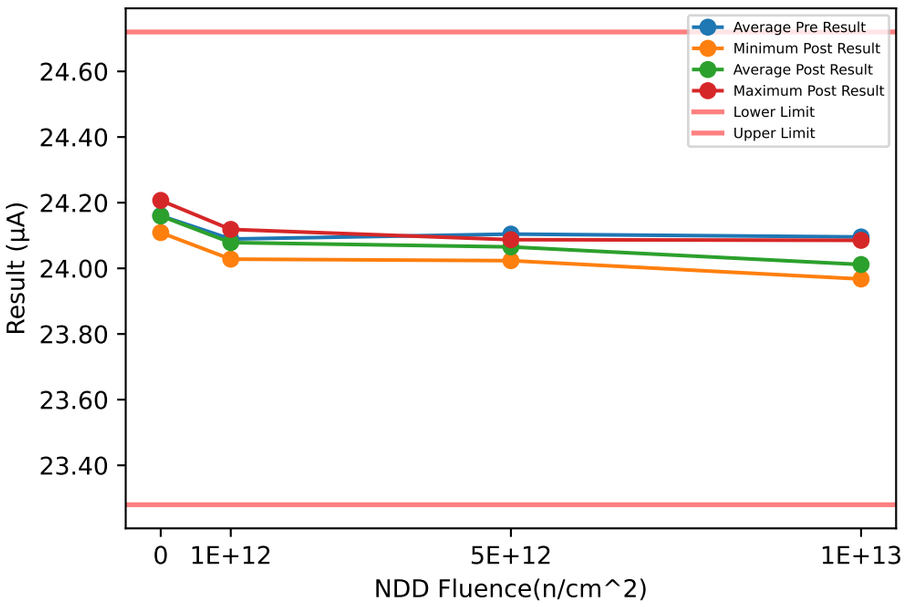
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	24.119	24.11	-0.0095
304	1e+12	NDD Unbiased	24.11	24.098	-0.0115
305	1e+12	NDD Unbiased	24.09	24.076	-0.0138
306	1e+12	NDD Unbiased	24.113	24.101	-0.0121
307	5e+12	NDD Unbiased	24.063	24.027	-0.0363
308	5e+12	NDD Unbiased	24.184	24.144	-0.0401
309	5e+12	NDD Unbiased	24.082	24.051	-0.0314
310	5e+12	NDD Unbiased	24.045	24	-0.0453
311	1e+13	NDD Unbiased	24.192	24.105	-0.0873
312	1e+13	NDD Unbiased	24.046	23.969	-0.0774
313	1e+13	NDD Unbiased	24.141	24.053	-0.0874
314	1e+13	NDD Unbiased	24.062	23.972	-0.0903
315	0	Correlation	24.188	24.19	0.0015
316	0	Correlation	24.164	24.163	-0.0007
317	0	Correlation	24.194	24.193	-0.0003

Test Statistics (µA)

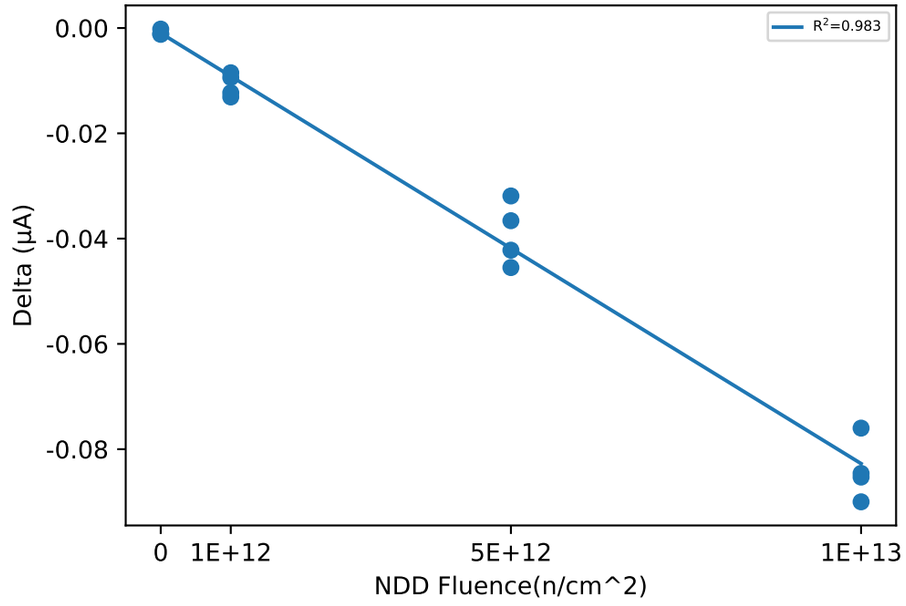
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	24.164	24.182	24.194	0.015971	24.163	24.182	24.193	0.016587	-0.0007	0.00016667	0.0015	0.0011719
1e+12	24.09	24.108	24.119	0.012493	24.076	24.096	24.11	0.014125	-0.0138	-0.011725	-0.0095	0.0017746
5e+12	24.045	24.094	24.184	0.062051	24	24.055	24.144	0.062524	-0.0453	-0.038275	-0.0314	0.0058835
1e+13	24.046	24.11	24.192	0.068303	23.969	24.025	24.105	0.066102	-0.0903	-0.0856	-0.0774	0.0056409

Device Test: 6.29; IHYS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (µA))

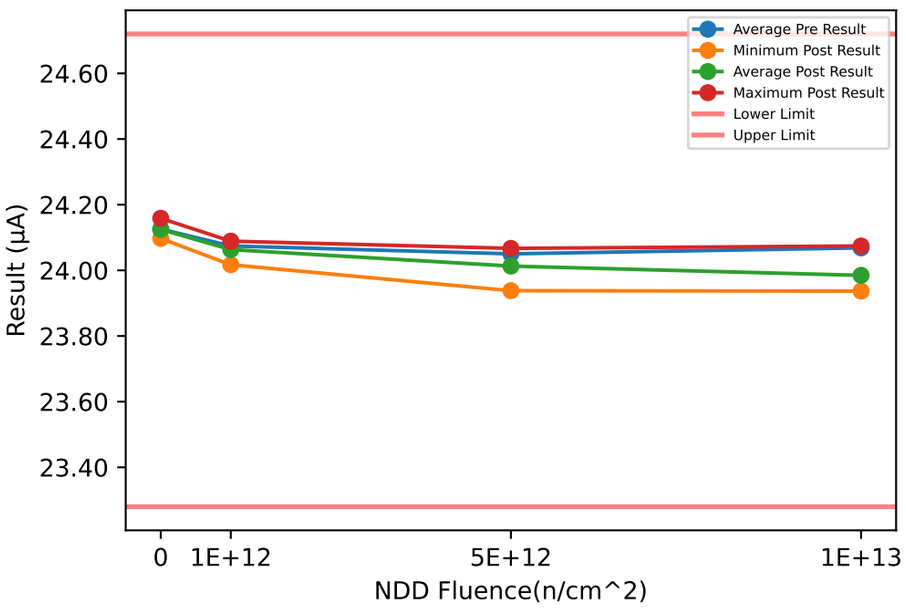
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	24.076	24.067	-0.0085
304	1e+12	NDD Unbiased	24.04	24.028	-0.0123
305	1e+12	NDD Unbiased	24.132	24.119	-0.0131
306	1e+12	NDD Unbiased	24.11	24.1	-0.0094
307	5e+12	NDD Unbiased	24.117	24.081	-0.0366
308	5e+12	NDD Unbiased	24.13	24.087	-0.0422
309	5e+12	NDD Unbiased	24.102	24.07	-0.0319
310	5e+12	NDD Unbiased	24.069	24.023	-0.0455
311	1e+13	NDD Unbiased	24.17	24.085	-0.0846
312	1e+13	NDD Unbiased	24.044	23.968	-0.076
313	1e+13	NDD Unbiased	24.077	23.992	-0.0853
314	1e+13	NDD Unbiased	24.092	24.002	-0.09
315	0	Correlation	24.164	24.163	-0.0011
316	0	Correlation	24.11	24.109	-0.0012
317	0	Correlation	24.207	24.207	-0.0002

Test Statistics (µA)

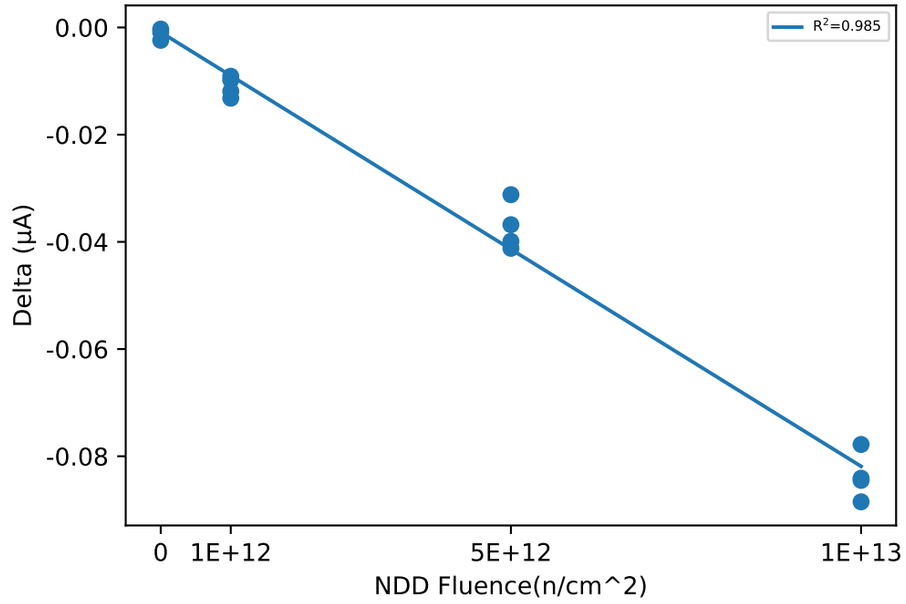
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	24.11	24.16	24.207	0.048604	24.109	24.16	24.207	0.049088	-0.0012	-0.00083333	-0.0002	0.00055076
1e+12	24.04	24.089	24.132	0.040022	24.028	24.078	24.119	0.039857	-0.0131	-0.010825	-0.0085	0.0022202
5e+12	24.069	24.104	24.13	0.02619	24.023	24.065	24.087	0.028826	-0.0455	-0.03905	-0.0319	0.006018
1e+13	24.044	24.096	24.17	0.053481	23.968	24.012	24.085	0.051162	-0.09	-0.083975	-0.076	0.0058323

Device Test: 6.30; IHYS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (µA))

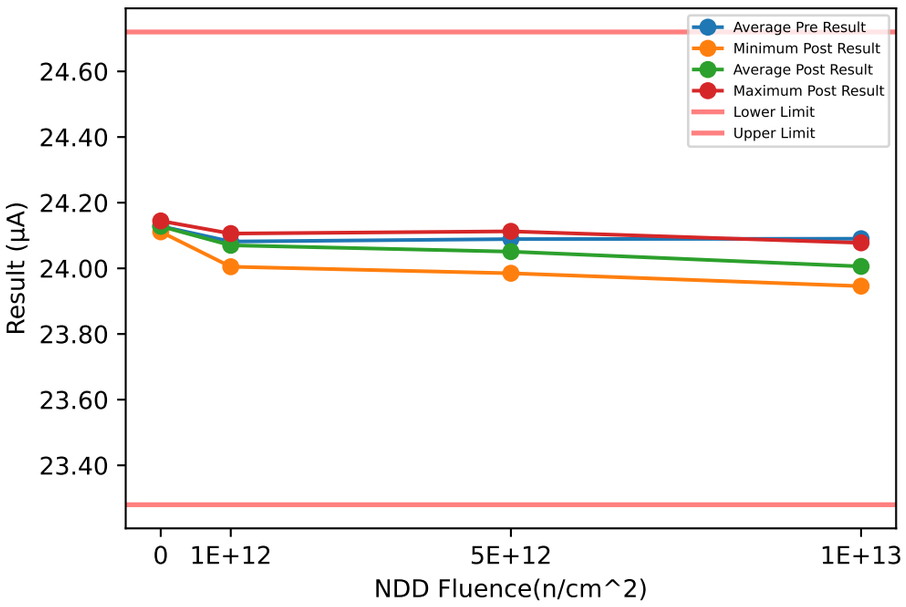
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	24.076	24.067	-0.0091
304	1e+12	NDD Unbiased	24.029	24.017	-0.0119
305	1e+12	NDD Unbiased	24.093	24.08	-0.0132
306	1e+12	NDD Unbiased	24.099	24.089	-0.0098
307	5e+12	NDD Unbiased	24.042	24.005	-0.0368
308	5e+12	NDD Unbiased	24.082	24.042	-0.0399
309	5e+12	NDD Unbiased	24.098	24.067	-0.0312
310	5e+12	NDD Unbiased	23.979	23.938	-0.0412
311	1e+13	NDD Unbiased	24.158	24.074	-0.0841
312	1e+13	NDD Unbiased	24.015	23.937	-0.0778
313	1e+13	NDD Unbiased	24.062	23.977	-0.0845
314	1e+13	NDD Unbiased	24.039	23.951	-0.0885
315	0	Correlation	24.119	24.118	-0.0009
316	0	Correlation	24.1	24.097	-0.0024
317	0	Correlation	24.159	24.159	-0.0003

Test Statistics (µA)

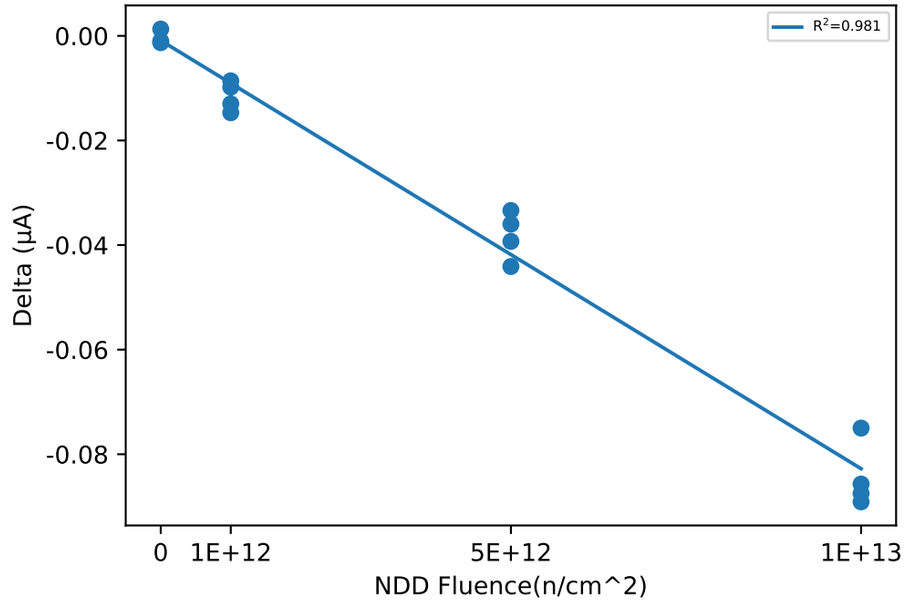
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	24.1	24.126	24.159	0.030212	24.097	24.125	24.159	0.031196	-0.0024	-0.0012	-0.0003	0.0010817
1e+12	24.029	24.074	24.099	0.031682	24.017	24.063	24.089	0.032068	-0.0132	-0.011	-0.0091	0.0018886
5e+12	23.979	24.05	24.098	0.052949	23.938	24.013	24.067	0.056081	-0.0412	-0.037275	-0.0312	0.0044507
1e+13	24.015	24.068	24.158	0.062914	23.937	23.985	24.074	0.061953	-0.0885	-0.083725	-0.0778	0.0044214

Device Test: 6.31; IHYS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (µA))

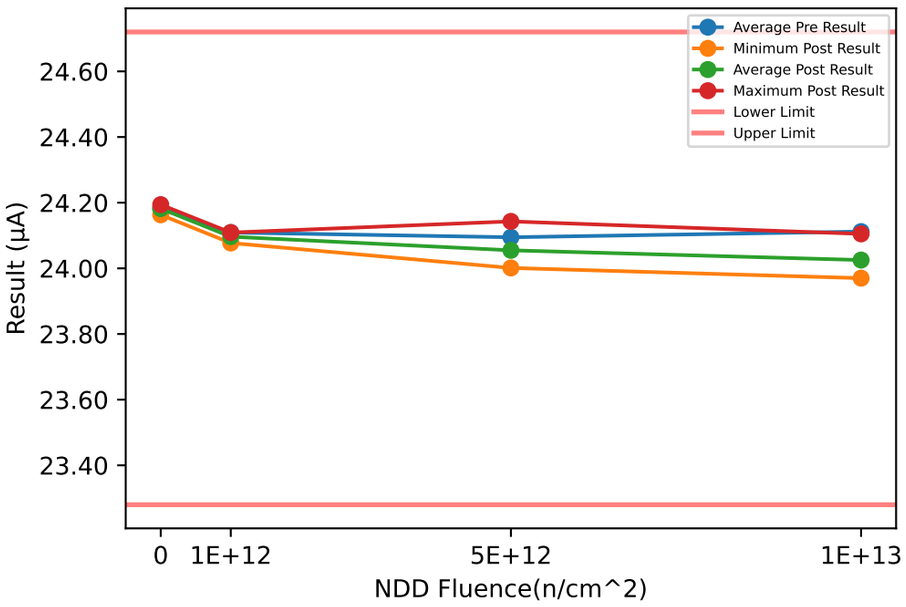
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	24.116	24.106	-0.0098
304	1e+12	NDD Unbiased	24.018	24.005	-0.013
305	1e+12	NDD Unbiased	24.092	24.077	-0.0147
306	1e+12	NDD Unbiased	24.101	24.093	-0.0086
307	5e+12	NDD Unbiased	24.064	24.028	-0.036
308	5e+12	NDD Unbiased	24.152	24.113	-0.0393
309	5e+12	NDD Unbiased	24.111	24.078	-0.0334
310	5e+12	NDD Unbiased	24.029	23.985	-0.0441
311	1e+13	NDD Unbiased	24.163	24.078	-0.0857
312	1e+13	NDD Unbiased	24.021	23.946	-0.075
313	1e+13	NDD Unbiased	24.092	24.005	-0.0875
314	1e+13	NDD Unbiased	24.085	23.996	-0.0891
315	0	Correlation	24.143	24.144	0.0013
316	0	Correlation	24.13	24.128	-0.0013
317	0	Correlation	24.112	24.111	-0.001

Test Statistics (µA)

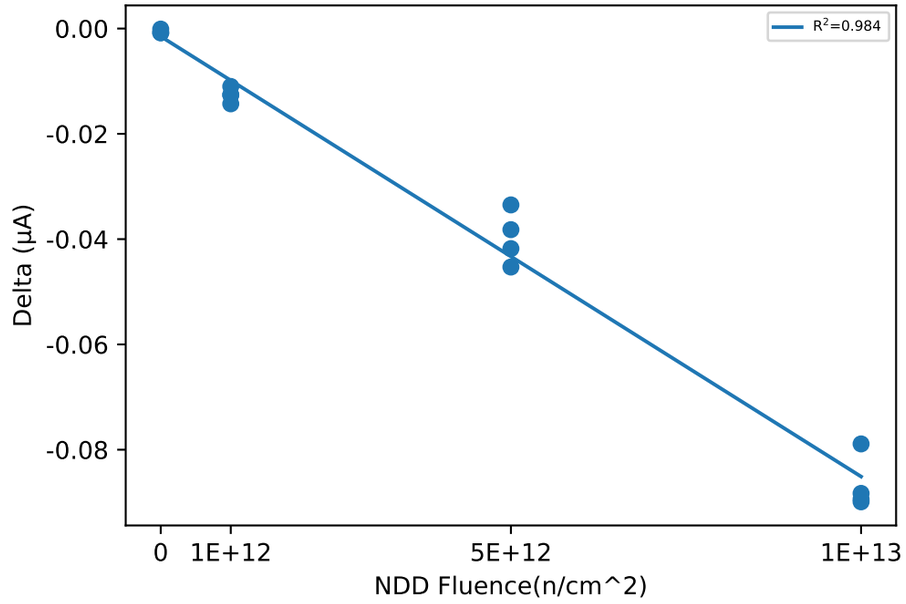
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	24.112	24.128	24.143	0.015495	24.111	24.128	24.144	0.016604	-0.0013	-0.00033333	0.0013	0.0014224
1e+12	24.018	24.082	24.116	0.043649	24.005	24.07	24.106	0.045068	-0.0147	-0.011525	-0.0086	0.0028159
5e+12	24.029	24.089	24.152	0.053729	23.985	24.051	24.113	0.055963	-0.0441	-0.0382	-0.0334	0.0046152
1e+13	24.021	24.09	24.163	0.058329	23.946	24.006	24.078	0.054385	-0.0891	-0.084325	-0.075	0.0063699

Device Test: 6.32; IHYS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (µA))

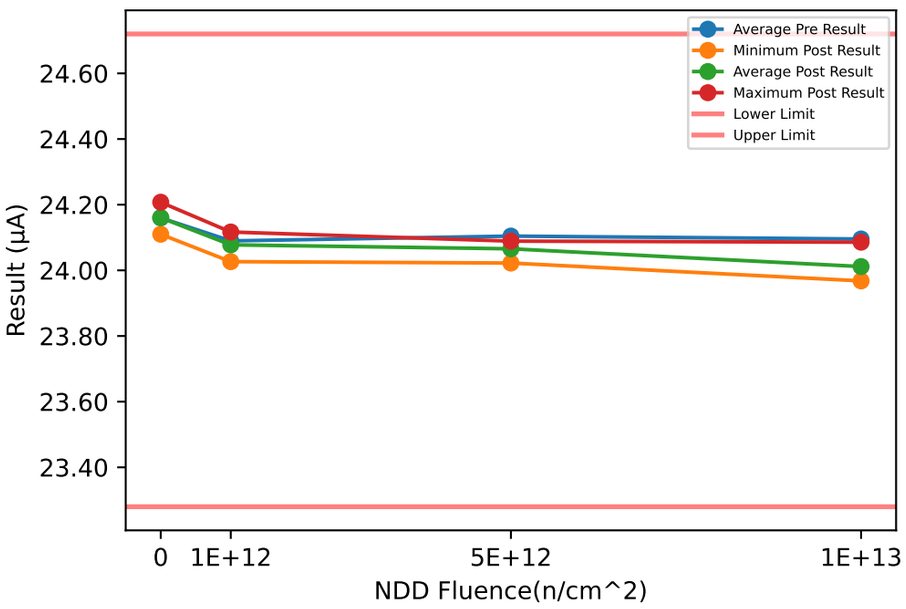
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	24.12	24.109	-0.011
304	1e+12	NDD Unbiased	24.111	24.098	-0.0126
305	1e+12	NDD Unbiased	24.091	24.077	-0.0143
306	1e+12	NDD Unbiased	24.114	24.101	-0.0126
307	5e+12	NDD Unbiased	24.064	24.026	-0.0382
308	5e+12	NDD Unbiased	24.185	24.143	-0.0418
309	5e+12	NDD Unbiased	24.083	24.05	-0.0335
310	5e+12	NDD Unbiased	24.047	24.001	-0.0453
311	1e+13	NDD Unbiased	24.193	24.105	-0.0883
312	1e+13	NDD Unbiased	24.049	23.97	-0.0789
313	1e+13	NDD Unbiased	24.142	24.053	-0.0894
314	1e+13	NDD Unbiased	24.063	23.973	-0.0899
315	0	Correlation	24.189	24.189	-0.0001
316	0	Correlation	24.164	24.163	-0.0008
317	0	Correlation	24.195	24.194	-0.0008

Test Statistics (µA)

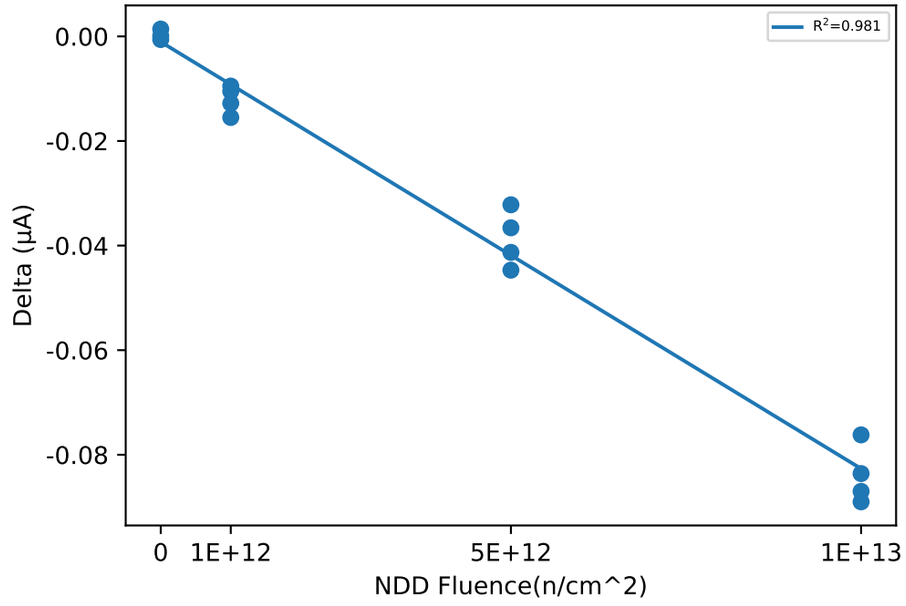
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	24.164	24.183	24.195	0.016442	24.163	24.182	24.194	0.016581	-0.0008	-0.00056667	-0.0001	0.00040415
1e+12	24.091	24.109	24.12	0.012313	24.077	24.096	24.109	0.013602	-0.0143	-0.012625	-0.011	0.0013475
5e+12	24.047	24.095	24.185	0.06193	24.001	24.055	24.143	0.061937	-0.0453	-0.0397	-0.0335	0.0050484
1e+13	24.049	24.112	24.193	0.068	23.97	24.025	24.105	0.065471	-0.0899	-0.086625	-0.0789	0.0051932

Device Test: 6.33; IHYS

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



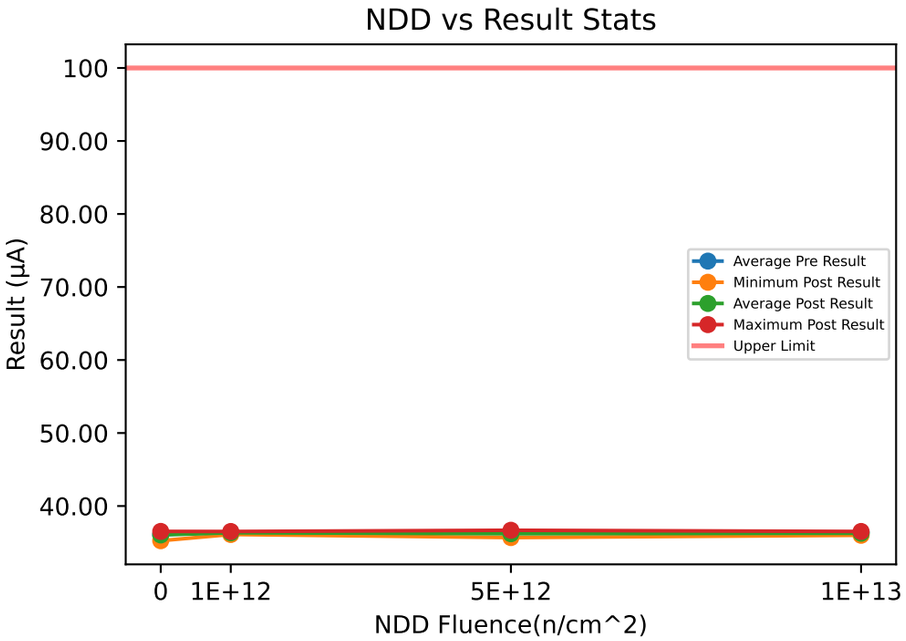
Test Results (Lower Limit = 23.28, Upper Limit = 24.72 (µA))

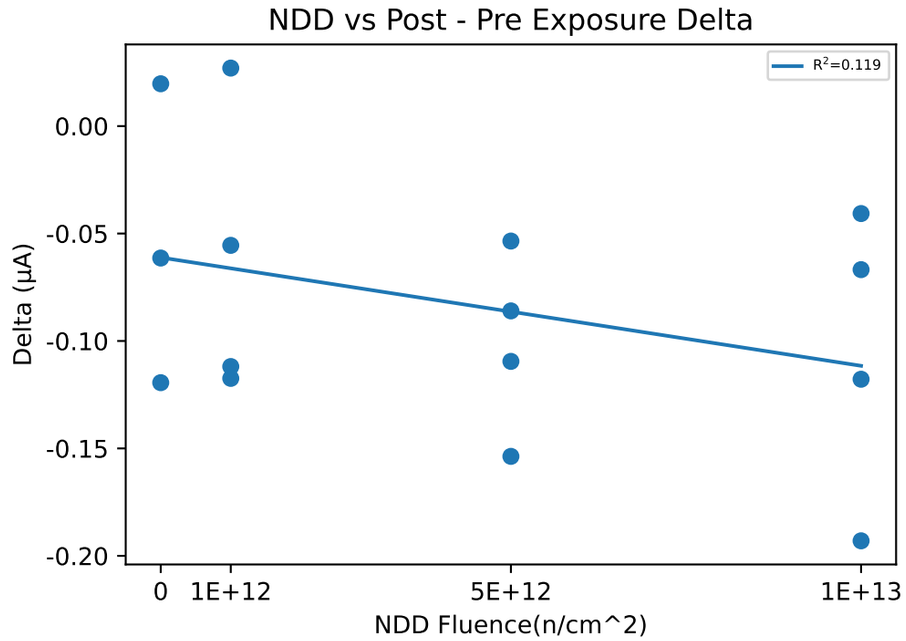
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	24.077	24.067	-0.0095
304	1e+12	NDD Unbiased	24.039	24.026	-0.0128
305	1e+12	NDD Unbiased	24.132	24.117	-0.0155
306	1e+12	NDD Unbiased	24.11	24.1	-0.0105
307	5e+12	NDD Unbiased	24.118	24.081	-0.0366
308	5e+12	NDD Unbiased	24.13	24.089	-0.0413
309	5e+12	NDD Unbiased	24.102	24.07	-0.0322
310	5e+12	NDD Unbiased	24.067	24.022	-0.0447
311	1e+13	NDD Unbiased	24.169	24.086	-0.0836
312	1e+13	NDD Unbiased	24.044	23.968	-0.0762
313	1e+13	NDD Unbiased	24.077	23.99	-0.087
314	1e+13	NDD Unbiased	24.091	24.002	-0.089
315	0	Correlation	24.162	24.163	0.0014
316	0	Correlation	24.11	24.11	0.0001
317	0	Correlation	24.208	24.207	-0.0006

Test Statistics (µA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	24.11	24.16	24.208	0.049133	24.11	24.16	24.207	0.048827	-0.0006	0.0003	0.0014	0.0010149
1e+12	24.039	24.09	24.132	0.040626	24.026	24.078	24.117	0.039806	-0.0155	-0.012075	-0.0095	0.0026688
5e+12	24.067	24.104	24.13	0.027427	24.022	24.066	24.089	0.029935	-0.0447	-0.0387	-0.0322	0.0054595
1e+13	24.044	24.096	24.169	0.05309	23.968	24.012	24.086	0.05151	-0.089	-0.08395	-0.0762	0.005627

Device Test: 6.34; PULL_UP_LKG





Test Results (Upper Limit = 100.0 (µA))

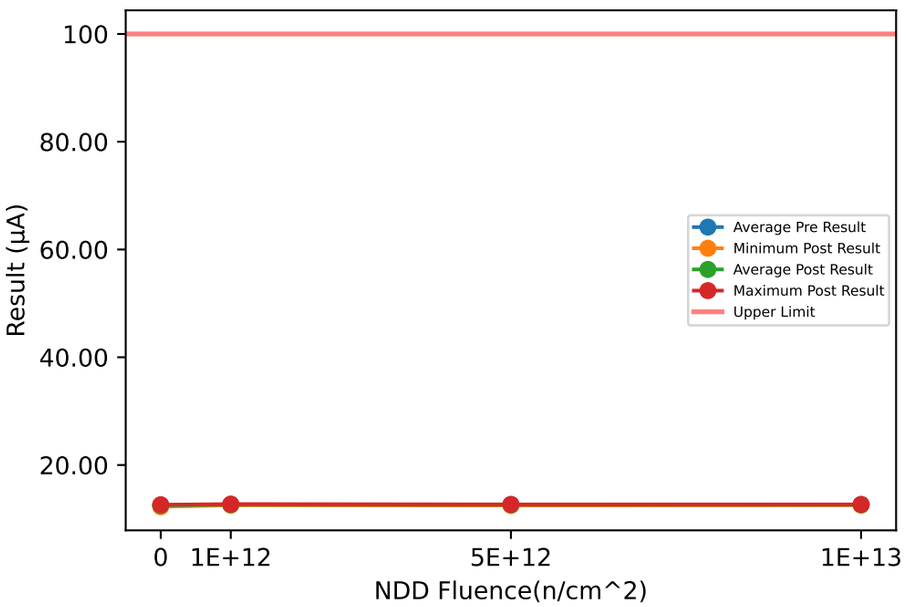
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	36.216	36.104	-0.1119
304	1e+12	NDD Unbiased	36.488	36.371	-0.1174
305	1e+12	NDD Unbiased	36.57	36.514	-0.0555
306	1e+12	NDD Unbiased	36.337	36.364	0.027
307	5e+12	NDD Unbiased	35.788	35.679	-0.1095
308	5e+12	NDD Unbiased	36.768	36.682	-0.086
309	5e+12	NDD Unbiased	36.283	36.13	-0.1537
310	5e+12	NDD Unbiased	36.391	36.337	-0.0535
311	1e+13	NDD Unbiased	36.71	36.517	-0.193
312	1e+13	NDD Unbiased	36.244	36.126	-0.1178
313	1e+13	NDD Unbiased	36.505	36.465	-0.0407
314	1e+13	NDD Unbiased	36.062	35.995	-0.0668
315	0	Correlation	36.46	36.341	-0.1194
316	0	Correlation	36.505	36.525	0.0197
317	0	Correlation	35.311	35.25	-0.0614

Test Statistics (µA)

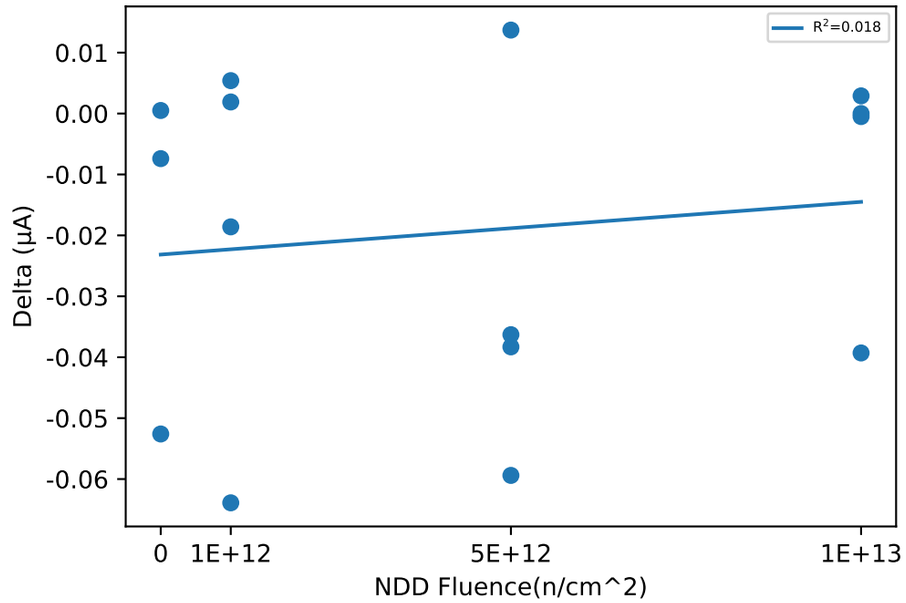
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	35.311	36.092	36.505	0.67683	35.25	36.038	36.525	0.6893	-0.1194	-0.0537	0.0197	0.069869
1e+12	36.216	36.403	36.57	0.15736	36.104	36.338	36.514	0.17076	-0.1174	-0.06445	0.027	0.067078
5e+12	35.788	36.308	36.768	0.4038	35.679	36.207	36.682	0.41936	-0.1537	-0.10067	-0.0535	0.042152
1e+13	36.062	36.38	36.71	0.28519	35.995	36.276	36.517	0.25478	-0.193	-0.10458	-0.0407	0.067084

Device Test: 6.35; PULL_UP_LKG

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



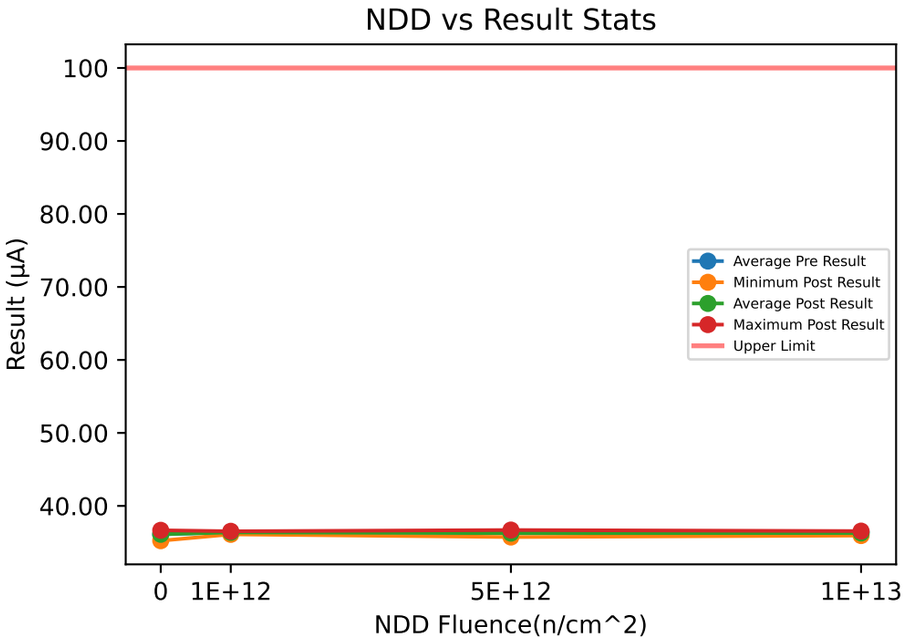
Test Results (Upper Limit = 100.0 (µA))

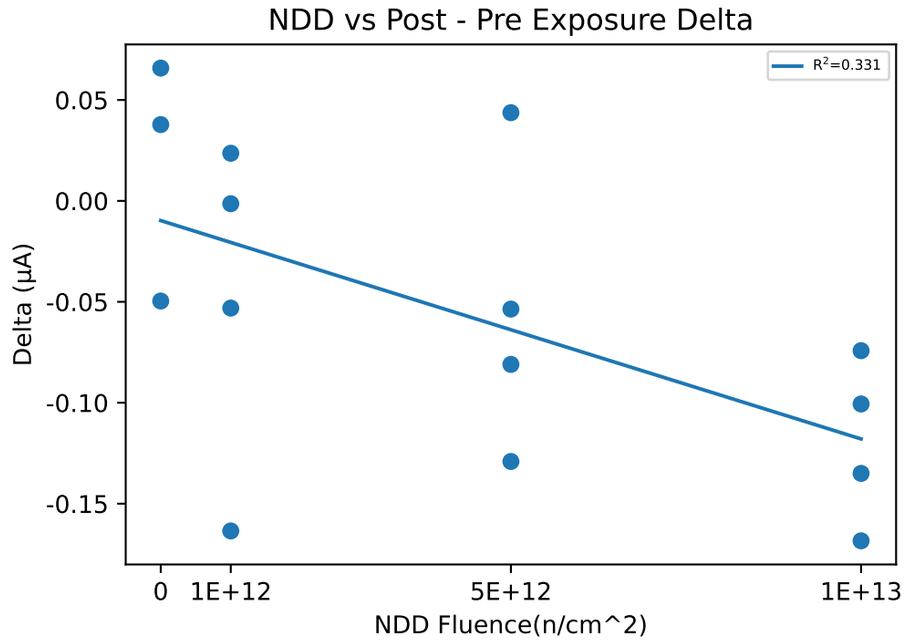
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.532	12.538	0.0054
304	1e+12	NDD Unbiased	12.692	12.628	-0.0639
305	1e+12	NDD Unbiased	12.771	12.752	-0.0186
306	1e+12	NDD Unbiased	12.643	12.645	0.0019
307	5e+12	NDD Unbiased	12.551	12.491	-0.0594
308	5e+12	NDD Unbiased	12.716	12.678	-0.0383
309	5e+12	NDD Unbiased	12.657	12.621	-0.0363
310	5e+12	NDD Unbiased	12.677	12.69	0.0137
311	1e+13	NDD Unbiased	12.674	12.674	0
312	1e+13	NDD Unbiased	12.605	12.608	0.0029
313	1e+13	NDD Unbiased	12.729	12.69	-0.0393
314	1e+13	NDD Unbiased	12.557	12.556	-0.0005
315	0	Correlation	12.635	12.628	-0.0074
316	0	Correlation	12.623	12.624	0.0005
317	0	Correlation	12.313	12.261	-0.0526

Test Statistics (µA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.313	12.524	12.635	0.18265	12.261	12.504	12.628	0.21094	-0.0526	-0.019833	0.0005	0.02865
1e+12	12.532	12.659	12.771	0.099836	12.538	12.641	12.752	0.088025	-0.0639	-0.0188	0.0054	0.031876
5e+12	12.551	12.65	12.716	0.07069	12.491	12.62	12.69	0.091003	-0.0594	-0.030075	0.0137	0.030998
1e+13	12.557	12.641	12.729	0.075866	12.556	12.632	12.69	0.061764	-0.0393	-0.009225	0.0029	0.020106

Device Test: 6.36; PULL_UP_LKG





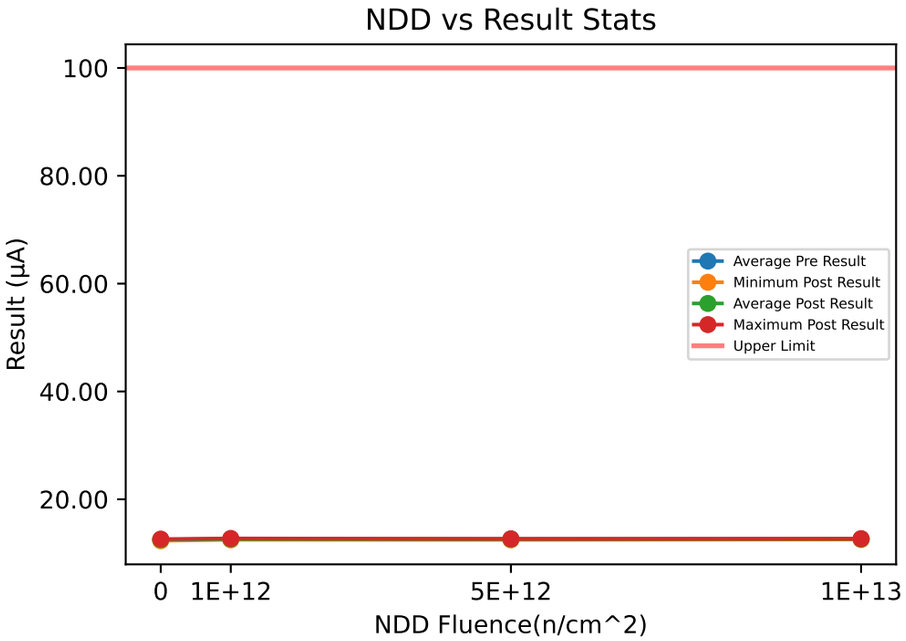
Test Results (Upper Limit = 100.0 (µA))

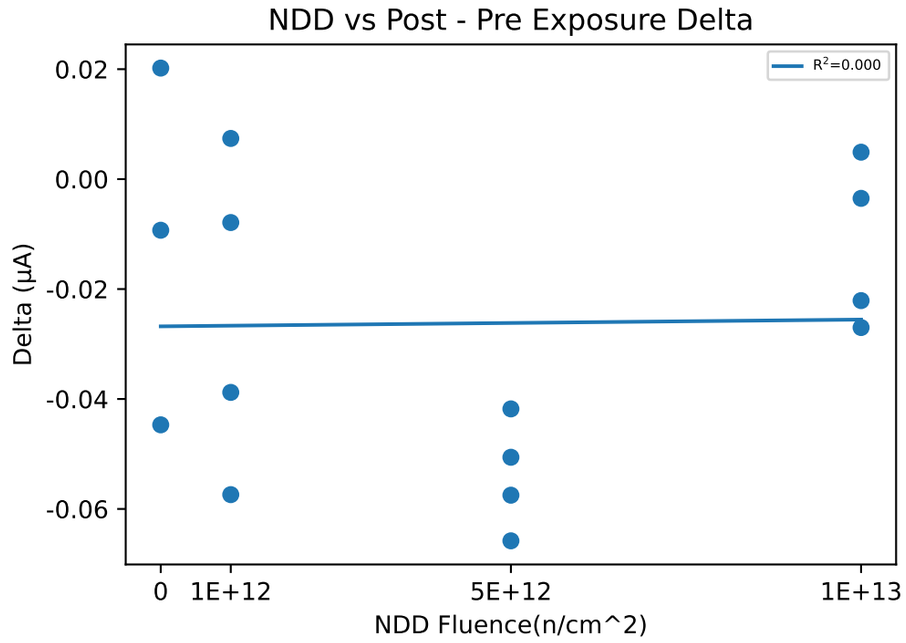
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	36.105	36.103	-0.0014
304	1e+12	NDD Unbiased	36.597	36.434	-0.1635
305	1e+12	NDD Unbiased	36.581	36.528	-0.0531
306	1e+12	NDD Unbiased	36.405	36.428	0.0236
307	5e+12	NDD Unbiased	35.817	35.736	-0.081
308	5e+12	NDD Unbiased	36.825	36.696	-0.1291
309	5e+12	NDD Unbiased	36.307	36.253	-0.0536
310	5e+12	NDD Unbiased	36.344	36.387	0.0437
311	1e+13	NDD Unbiased	36.721	36.552	-0.1684
312	1e+13	NDD Unbiased	36.279	36.205	-0.0742
313	1e+13	NDD Unbiased	36.556	36.456	-0.1006
314	1e+13	NDD Unbiased	36.073	35.938	-0.135
315	0	Correlation	36.405	36.443	0.0378
316	0	Correlation	36.596	36.661	0.0658
317	0	Correlation	35.282	35.233	-0.0496

Test Statistics (µA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	35.282	36.094	36.596	0.70955	35.233	36.112	36.661	0.76946	-0.0496	0.018	0.0658	0.060194
1e+12	36.105	36.422	36.597	0.22878	36.103	36.373	36.528	0.18577	-0.1635	-0.0486	0.0236	0.082992
5e+12	35.817	36.323	36.825	0.41184	35.736	36.268	36.696	0.4003	-0.1291	-0.055	0.0437	0.072825
1e+13	36.073	36.407	36.721	0.2879	35.938	36.288	36.552	0.27532	-0.1684	-0.11955	-0.0742	0.040991

Device Test: 6.37; PULL_UP_LKG





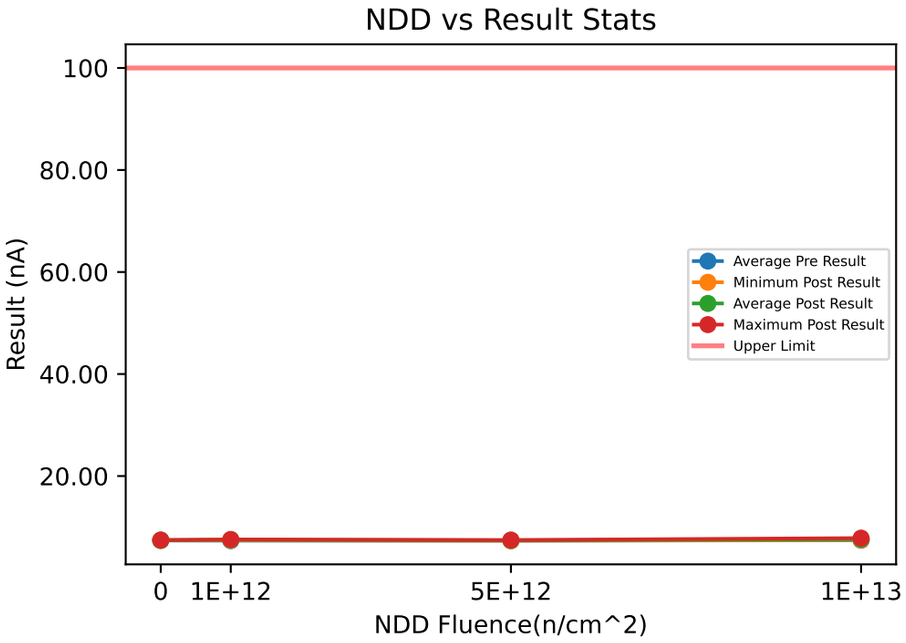
Test Results (Upper Limit = 100.0 (µA))

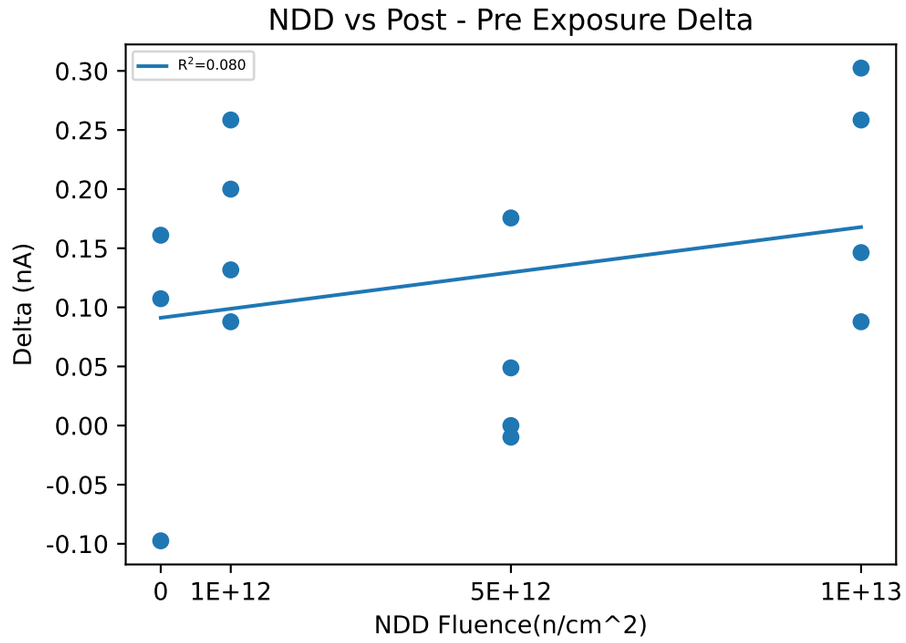
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	12.527	12.488	-0.0388
304	1e+12	NDD Unbiased	12.617	12.56	-0.0574
305	1e+12	NDD Unbiased	12.747	12.739	-0.0079
306	1e+12	NDD Unbiased	12.627	12.635	0.0074
307	5e+12	NDD Unbiased	12.525	12.475	-0.0506
308	5e+12	NDD Unbiased	12.704	12.638	-0.0658
309	5e+12	NDD Unbiased	12.657	12.6	-0.0575
310	5e+12	NDD Unbiased	12.697	12.655	-0.0418
311	1e+13	NDD Unbiased	12.692	12.665	-0.027
312	1e+13	NDD Unbiased	12.608	12.613	0.0049
313	1e+13	NDD Unbiased	12.692	12.689	-0.0035
314	1e+13	NDD Unbiased	12.566	12.543	-0.0221
315	0	Correlation	12.637	12.593	-0.0447
316	0	Correlation	12.624	12.615	-0.0093
317	0	Correlation	12.293	12.314	0.0202

Test Statistics (µA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.293	12.518	12.637	0.19477	12.314	12.507	12.615	0.16777	-0.0447	-0.011267	0.0202	0.032495
1e+12	12.527	12.63	12.747	0.090521	12.488	12.605	12.739	0.10754	-0.0574	-0.024175	0.0074	0.029324
5e+12	12.525	12.646	12.704	0.082838	12.475	12.592	12.655	0.081395	-0.0658	-0.053925	-0.0418	0.010196
1e+13	12.566	12.639	12.692	0.063356	12.543	12.628	12.689	0.06445	-0.027	-0.011925	0.0049	0.015109

Device Test: 6.38; ILKG_WDI





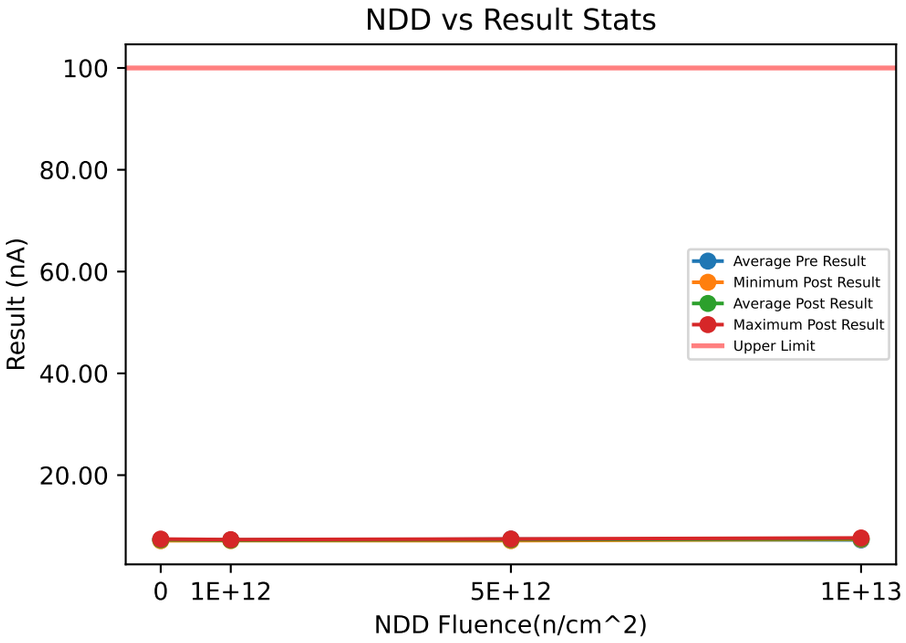
Test Results (Upper Limit = 100.0 (nA))

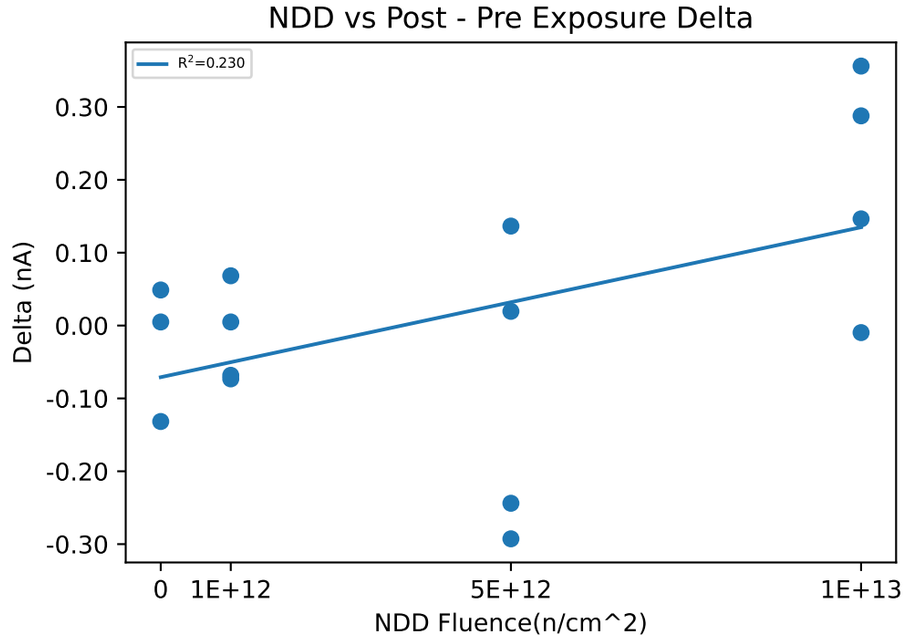
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	7.4386	7.5703	0.1317
304	1e+12	NDD Unbiased	7.3167	7.4045	0.0878
305	1e+12	NDD Unbiased	7.3069	7.5069	0.2
306	1e+12	NDD Unbiased	7.2679	7.5264	0.2585
307	5e+12	NDD Unbiased	7.2191	7.3947	0.1756
308	5e+12	NDD Unbiased	7.385	7.3752	-0.0098
309	5e+12	NDD Unbiased	7.4045	7.4533	0.0488
310	5e+12	NDD Unbiased	7.3216	7.3216	0
311	1e+13	NDD Unbiased	7.2289	7.4874	0.2585
312	1e+13	NDD Unbiased	7.3752	7.463	0.0878
313	1e+13	NDD Unbiased	7.6874	7.8337	0.1463
314	1e+13	NDD Unbiased	7.3557	7.6581	0.3024
315	0	Correlation	7.502	7.4045	-0.0975
316	0	Correlation	7.2484	7.4094	0.161
317	0	Correlation	7.3411	7.4484	0.1073

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.2484	7.3638	7.502	0.12832	7.4045	7.4208	7.4484	0.024056	-0.0975	0.056933	0.161	0.13641
1e+12	7.2679	7.3325	7.4386	0.073791	7.4045	7.502	7.5703	0.070215	0.0878	0.1695	0.2585	0.075178
5e+12	7.2191	7.3325	7.4045	0.083504	7.3216	7.3862	7.4533	0.054372	-0.0098	0.05365	0.1756	0.085244
1e+13	7.2289	7.4118	7.6874	0.19485	7.463	7.6105	7.8337	0.17223	0.0878	0.19875	0.3024	0.098952

Device Test: 6.39; ILKG_WDI





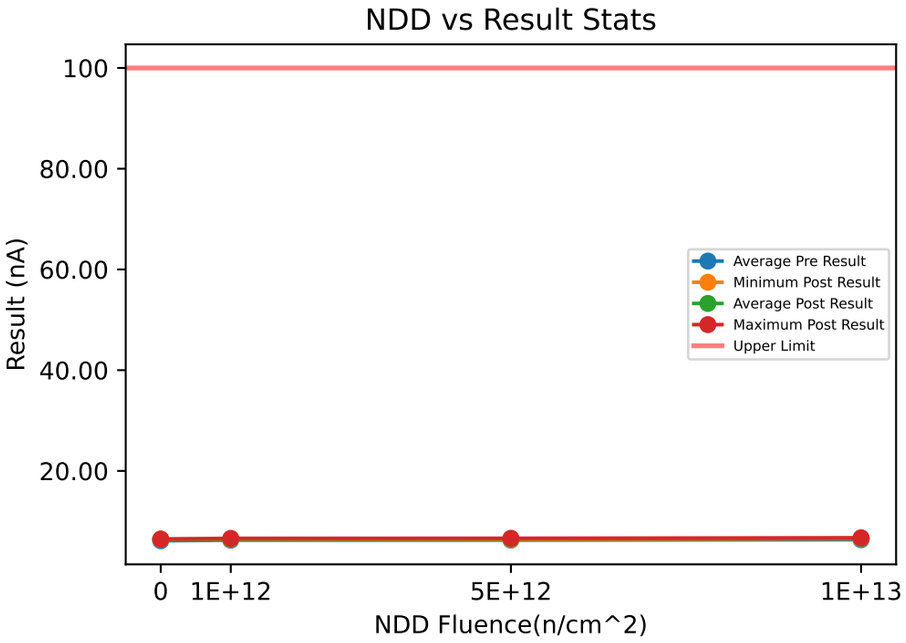
Test Results (Upper Limit = 100.0 (nA))

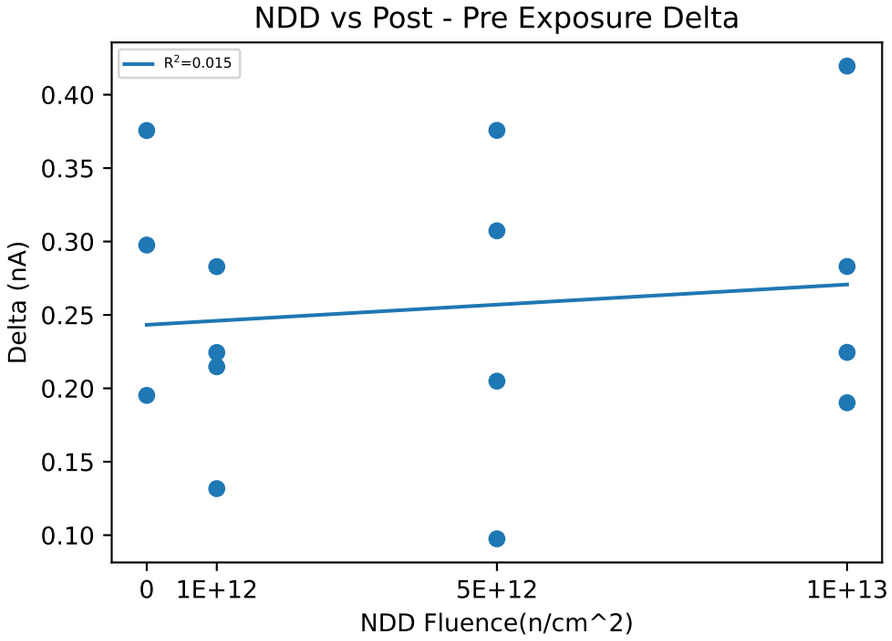
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	7.263	7.3313	0.0683
304	1e+12	NDD Unbiased	7.3118	7.2386	-0.0732
305	1e+12	NDD Unbiased	7.2728	7.2045	-0.0683
306	1e+12	NDD Unbiased	7.1313	7.1362	0.0049
307	5e+12	NDD Unbiased	7.424	7.1313	-0.2927
308	5e+12	NDD Unbiased	7.663	7.4191	-0.2439
309	5e+12	NDD Unbiased	7.2484	7.2679	0.0195
310	5e+12	NDD Unbiased	7.3216	7.4581	0.1365
311	1e+13	NDD Unbiased	7.3947	7.385	-0.0097
312	1e+13	NDD Unbiased	7.263	7.4094	0.1464
313	1e+13	NDD Unbiased	7.3703	7.6581	0.2878
314	1e+13	NDD Unbiased	7.0533	7.4094	0.3561
315	0	Correlation	7.3898	7.4386	0.0488
316	0	Correlation	7.2484	7.1167	-0.1317
317	0	Correlation	7.3313	7.3362	0.0049

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.2484	7.3232	7.3898	0.07105	7.1167	7.2972	7.4386	0.16446	-0.1317	-0.026	0.0488	0.094134
1e+12	7.1313	7.2447	7.3118	0.078499	7.1362	7.2276	7.3313	0.081163	-0.0732	-0.017075	0.0683	0.067196
5e+12	7.2484	7.4143	7.663	0.1808	7.1313	7.3191	7.4581	0.14968	-0.2927	-0.09515	0.1365	0.20653
1e+13	7.0533	7.2703	7.3947	0.15558	7.385	7.4655	7.6581	0.12893	-0.0097	0.19515	0.3561	0.1621

Device Test: 6.40; ILKG_MODE





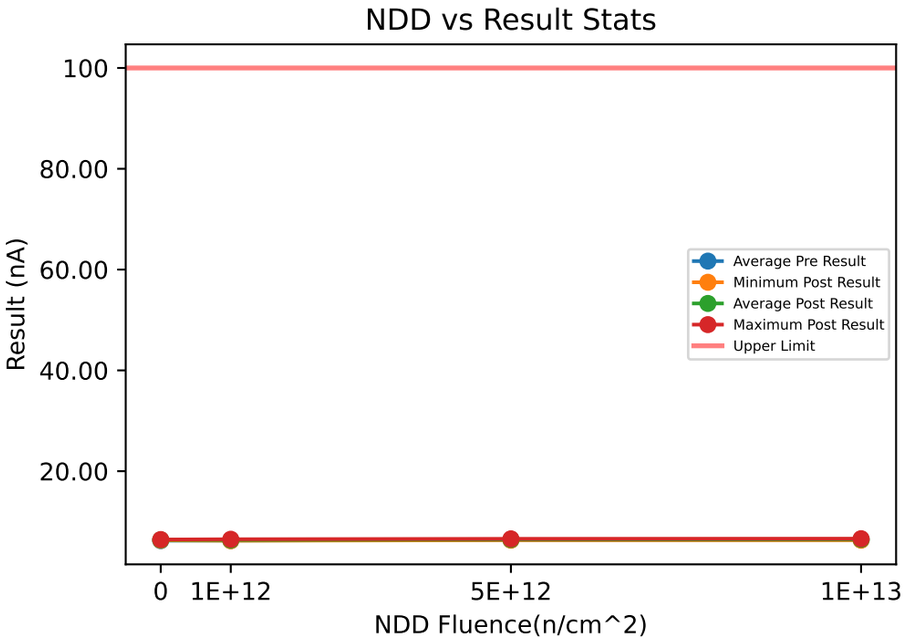
Test Results (Upper Limit = 100.0 (nA))

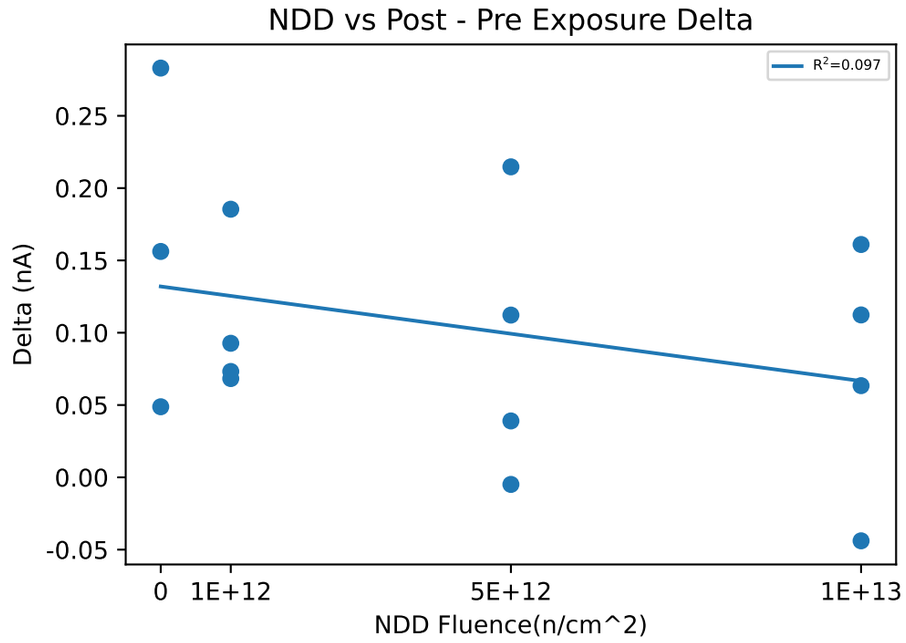
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	6.2165	6.4312	0.2147
304	1e+12	NDD Unbiased	6.3239	6.6068	0.2829
305	1e+12	NDD Unbiased	6.2751	6.4068	0.1317
306	1e+12	NDD Unbiased	6.1873	6.4117	0.2244
307	5e+12	NDD Unbiased	6.1043	6.48	0.3757
308	5e+12	NDD Unbiased	6.2263	6.5336	0.3073
309	5e+12	NDD Unbiased	6.1629	6.3678	0.2049
310	5e+12	NDD Unbiased	6.5239	6.6214	0.0975
311	1e+13	NDD Unbiased	6.4995	6.6897	0.1902
312	1e+13	NDD Unbiased	6.2653	6.5483	0.283
313	1e+13	NDD Unbiased	6.4848	6.7093	0.2245
314	1e+13	NDD Unbiased	6.1141	6.5336	0.4195
315	0	Correlation	6.1287	6.4263	0.2976
316	0	Correlation	6.0214	6.397	0.3756
317	0	Correlation	6.2653	6.4605	0.1952

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.0214	6.1385	6.2653	0.12224	6.397	6.4279	6.4605	0.031781	0.1952	0.28947	0.3756	0.090475
1e+12	6.1873	6.2507	6.3239	0.060945	6.4068	6.4641	6.6068	0.095699	0.1317	0.21342	0.2829	0.062257
5e+12	6.1043	6.2544	6.5239	0.18648	6.3678	6.5007	6.6214	0.10605	0.0975	0.24635	0.3757	0.12155
1e+13	6.1141	6.3409	6.4995	0.18531	6.5336	6.6202	6.7093	0.092084	0.1902	0.2793	0.4195	0.10101

Device Test: 6.41; ILKG_MODE





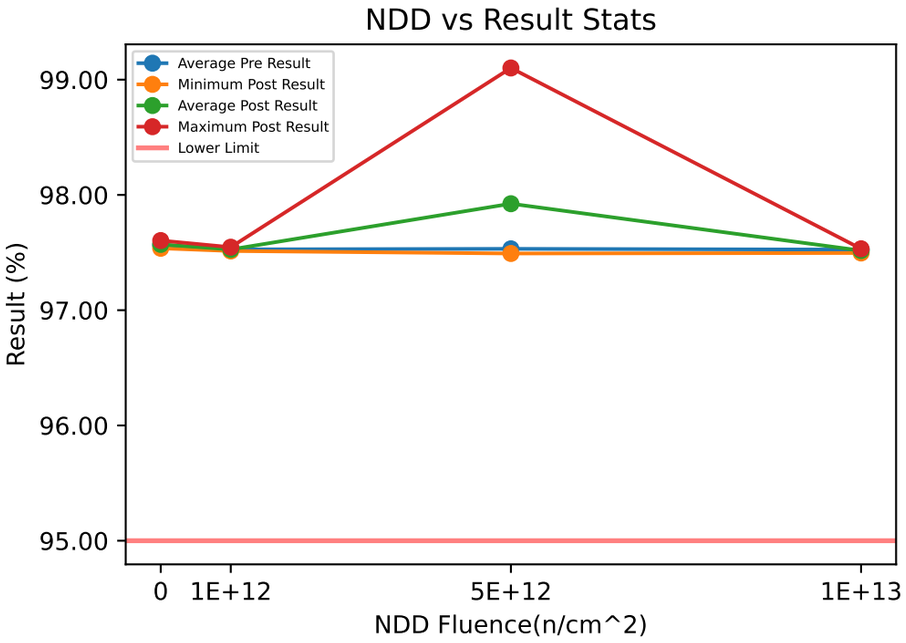
Test Results (Upper Limit = 100.0 (nA))

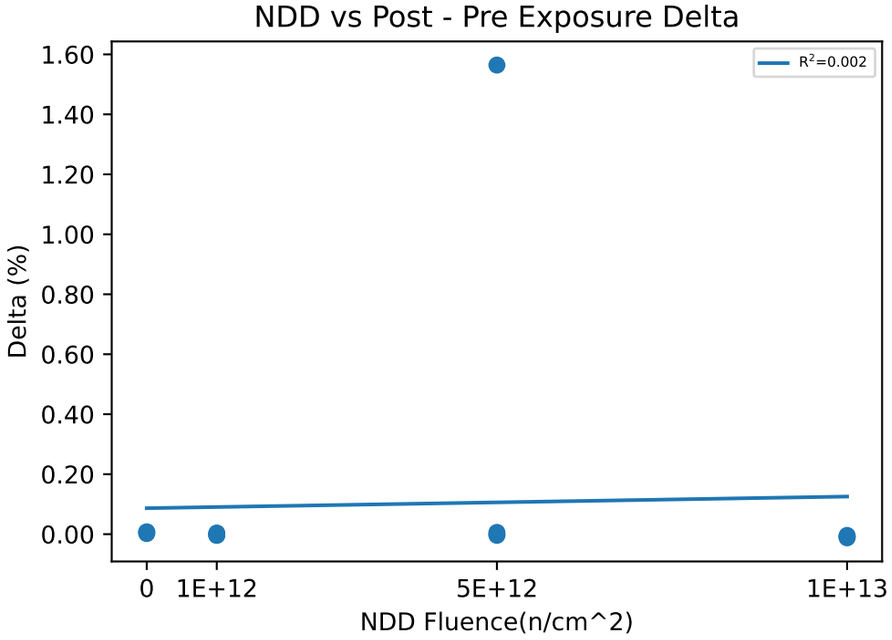
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	6.2068	6.3922	0.1854
304	1e+12	NDD Unbiased	6.4263	6.4946	0.0683
305	1e+12	NDD Unbiased	6.1824	6.2751	0.0927
306	1e+12	NDD Unbiased	6.1287	6.2019	0.0732
307	5e+12	NDD Unbiased	6.197	6.3092	0.1122
308	5e+12	NDD Unbiased	6.4312	6.4263	-0.0049
309	5e+12	NDD Unbiased	6.2409	6.4556	0.2147
310	5e+12	NDD Unbiased	6.5385	6.5775	0.039
311	1e+13	NDD Unbiased	6.4165	6.5775	0.161
312	1e+13	NDD Unbiased	6.3482	6.3043	-0.0439
313	1e+13	NDD Unbiased	6.5434	6.6068	0.0634
314	1e+13	NDD Unbiased	6.2799	6.3922	0.1123
315	0	Correlation	6.236	6.2848	0.0488
316	0	Correlation	6.1287	6.4117	0.283
317	0	Correlation	6.2799	6.4361	0.1562

Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.1287	6.2149	6.2799	0.077784	6.2848	6.3775	6.4361	0.081231	0.0488	0.16267	0.283	0.11723
1e+12	6.1287	6.2361	6.4263	0.13096	6.2019	6.341	6.4946	0.12898	0.0683	0.1049	0.1854	0.054692
5e+12	6.197	6.3519	6.5385	0.16065	6.3092	6.4421	6.5775	0.11019	-0.0049	0.09025	0.2147	0.096003
1e+13	6.2799	6.397	6.5434	0.11241	6.3043	6.4702	6.6068	0.14581	-0.0439	0.0732	0.161	0.087647

Device Test: 6.42; VOH_RESET_2MA





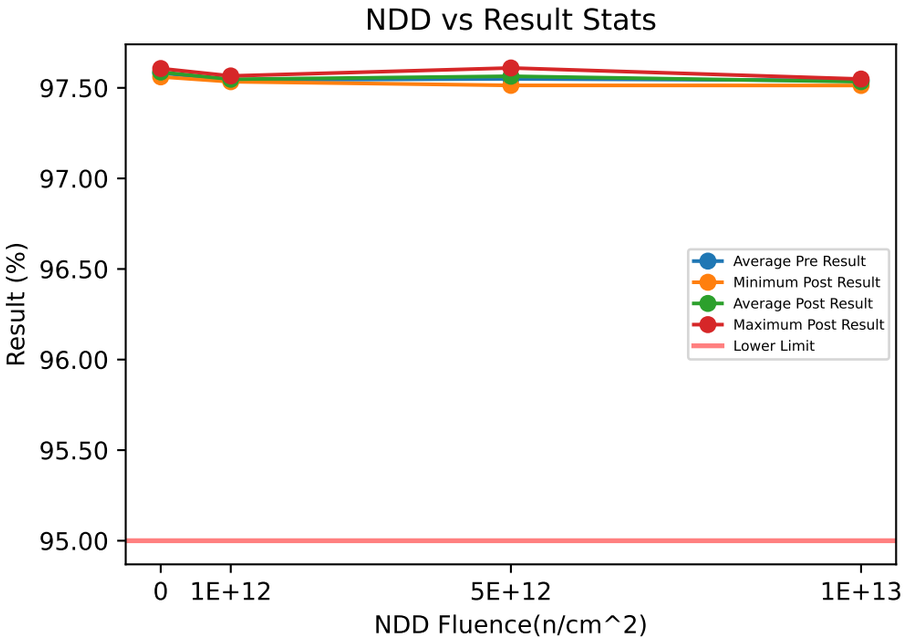
Test Results (Lower Limit = 95.0 (%))

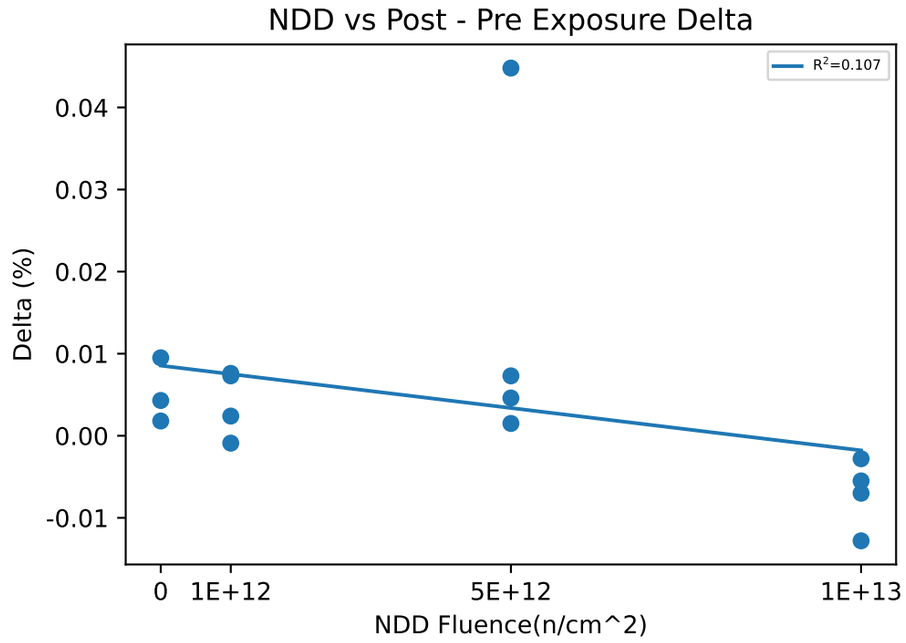
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.543	97.547	0.0037
304	1e+12	NDD Unbiased	97.518	97.514	-0.0039
305	1e+12	NDD Unbiased	97.517	97.519	0.0018
306	1e+12	NDD Unbiased	97.533	97.529	-0.0034
307	5e+12	NDD Unbiased	97.544	97.55	0.0058
308	5e+12	NDD Unbiased	97.493	97.492	-0.0006
309	5e+12	NDD Unbiased	97.555	97.551	-0.0039
310	5e+12	NDD Unbiased	97.537	99.101	1.5643
311	1e+13	NDD Unbiased	97.534	97.526	-0.0082
312	1e+13	NDD Unbiased	97.541	97.533	-0.0082
313	1e+13	NDD Unbiased	97.501	97.496	-0.0042
314	1e+13	NDD Unbiased	97.526	97.514	-0.0122
315	0	Correlation	97.57	97.572	0.0021
316	0	Correlation	97.529	97.537	0.0076
317	0	Correlation	97.597	97.604	0.0067

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.529	97.566	97.597	0.034176	97.537	97.571	97.604	0.033554	0.0021	0.0054667	0.0076	0.0029501
1e+12	97.517	97.527	97.543	0.01262	97.514	97.527	97.547	0.014585	-0.0039	-0.00045	0.0037	0.0037811
5e+12	97.493	97.532	97.555	0.027494	97.492	97.924	99.101	0.78561	-0.0039	0.3914	1.5643	0.78194
1e+13	97.501	97.525	97.541	0.017774	97.496	97.517	97.533	0.016089	-0.0122	-0.0082	-0.0042	0.003266

Device Test: 6.43; VOH_RESET_2MA





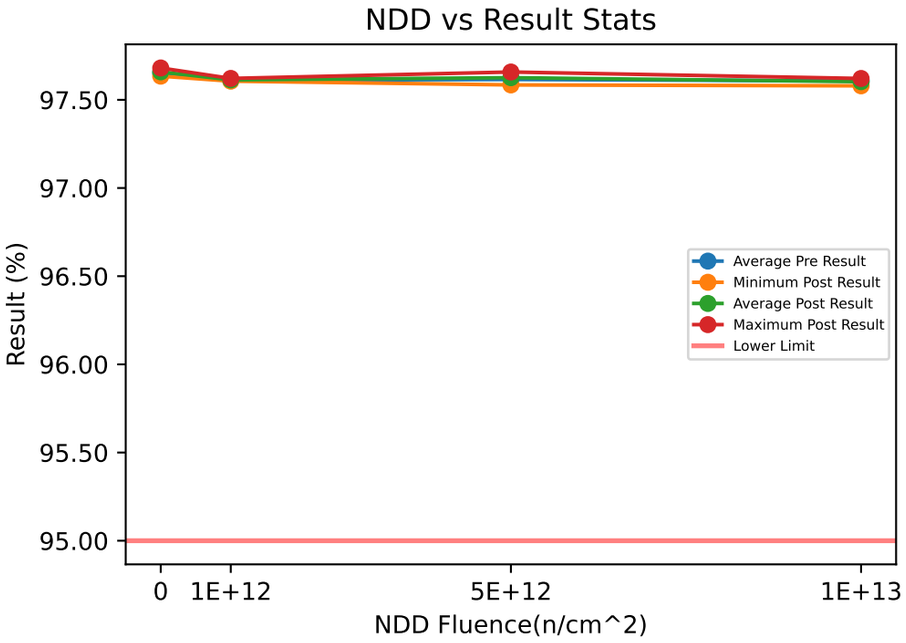
Test Results (Lower Limit = 95.0 (%))

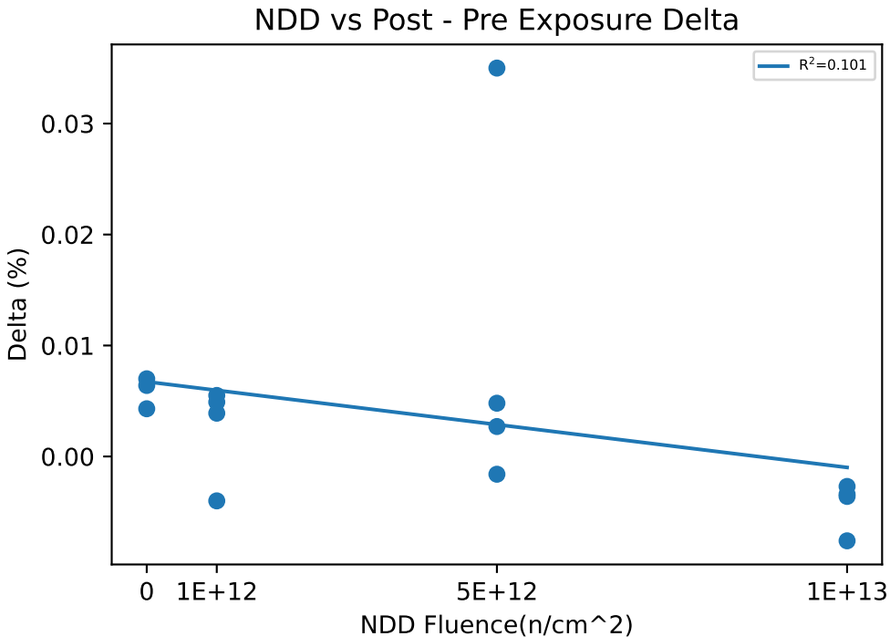
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.546	97.548	0.0024
304	1e+12	NDD Unbiased	97.534	97.542	0.0073
305	1e+12	NDD Unbiased	97.535	97.534	-0.0009
306	1e+12	NDD Unbiased	97.558	97.566	0.0076
307	5e+12	NDD Unbiased	97.552	97.557	0.0046
308	5e+12	NDD Unbiased	97.512	97.514	0.0015
309	5e+12	NDD Unbiased	97.569	97.576	0.0073
310	5e+12	NDD Unbiased	97.565	97.61	0.0448
311	1e+13	NDD Unbiased	97.556	97.549	-0.007
312	1e+13	NDD Unbiased	97.554	97.541	-0.0128
313	1e+13	NDD Unbiased	97.516	97.513	-0.0028
314	1e+13	NDD Unbiased	97.538	97.532	-0.0055
315	0	Correlation	97.584	97.594	0.0095
316	0	Correlation	97.559	97.561	0.0018
317	0	Correlation	97.602	97.607	0.0043

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.559	97.582	97.602	0.02191	97.561	97.587	97.607	0.023798	0.0018	0.0052	0.0095	0.0039281
1e+12	97.534	97.543	97.558	0.011268	97.534	97.547	97.566	0.01362	-0.0009	0.0041	0.0076	0.004098
5e+12	97.512	97.549	97.569	0.025943	97.514	97.564	97.61	0.040128	0.0015	0.01455	0.0448	0.020305
1e+13	97.516	97.541	97.556	0.018585	97.513	97.534	97.549	0.015438	-0.0128	-0.007025	-0.0028	0.004224

Device Test: 6.44; VOH_RESET_2MA





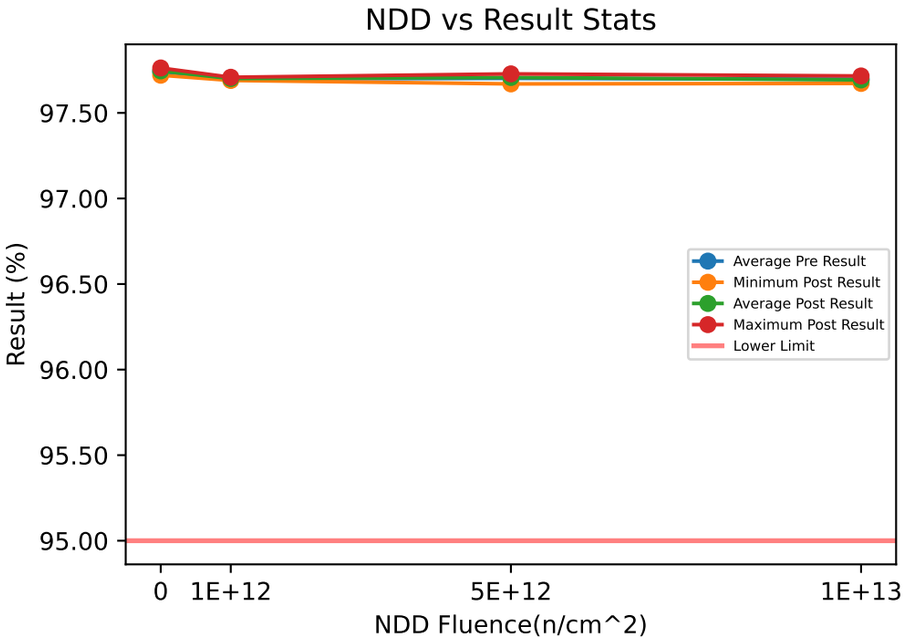
Test Results (Lower Limit = 95.0 (%))

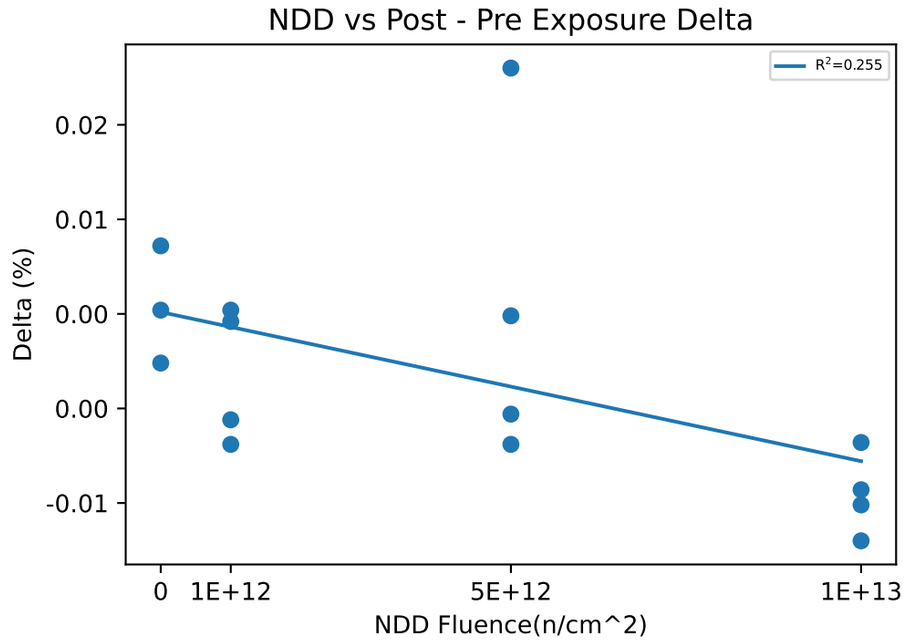
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.618	97.621	0.0039
304	1e+12	NDD Unbiased	97.6	97.606	0.0055
305	1e+12	NDD Unbiased	97.601	97.606	0.0049
306	1e+12	NDD Unbiased	97.623	97.619	-0.004
307	5e+12	NDD Unbiased	97.623	97.627	0.0048
308	5e+12	NDD Unbiased	97.586	97.585	-0.0016
309	5e+12	NDD Unbiased	97.63	97.632	0.0027
310	5e+12	NDD Unbiased	97.623	97.658	0.035
311	1e+13	NDD Unbiased	97.624	97.621	-0.0034
312	1e+13	NDD Unbiased	97.619	97.611	-0.0076
313	1e+13	NDD Unbiased	97.583	97.579	-0.0036
314	1e+13	NDD Unbiased	97.602	97.6	-0.0027
315	0	Correlation	97.657	97.661	0.0043
316	0	Correlation	97.627	97.634	0.007
317	0	Correlation	97.674	97.681	0.0064

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.627	97.653	97.674	0.023762	97.634	97.659	97.681	0.023298	0.0043	0.0059	0.007	0.0014177
1e+12	97.6	97.611	97.623	0.011539	97.606	97.613	97.621	0.0083014	-0.004	0.002575	0.0055	0.0044327
5e+12	97.586	97.615	97.63	0.019744	97.585	97.626	97.658	0.030383	-0.0016	0.010225	0.035	0.01673
1e+13	97.583	97.607	97.624	0.018701	97.579	97.603	97.621	0.017956	-0.0076	-0.004325	-0.0027	0.0022172

Device Test: 6.45; VOH_RESET_2MA





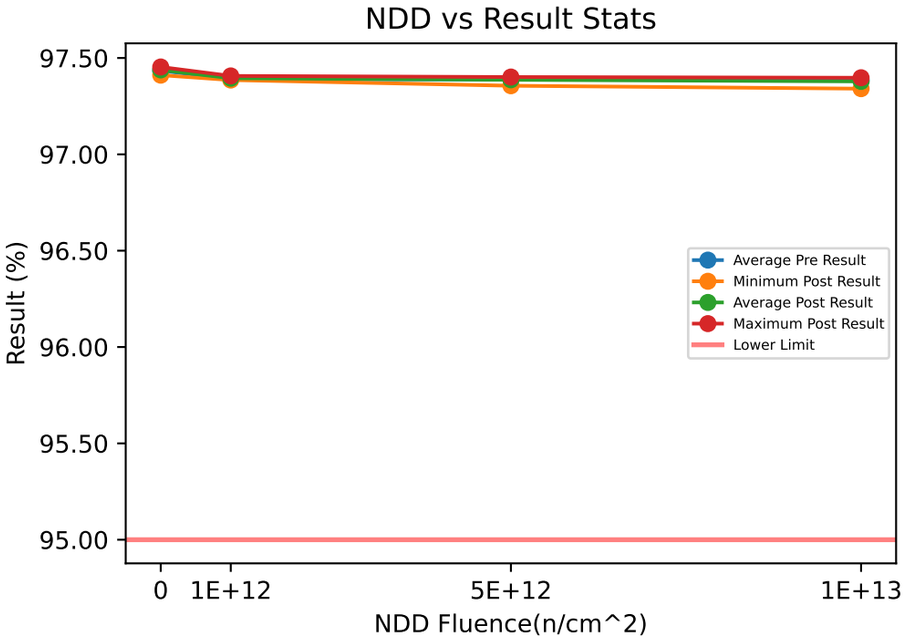
Test Results (Lower Limit = 95.0 (%))

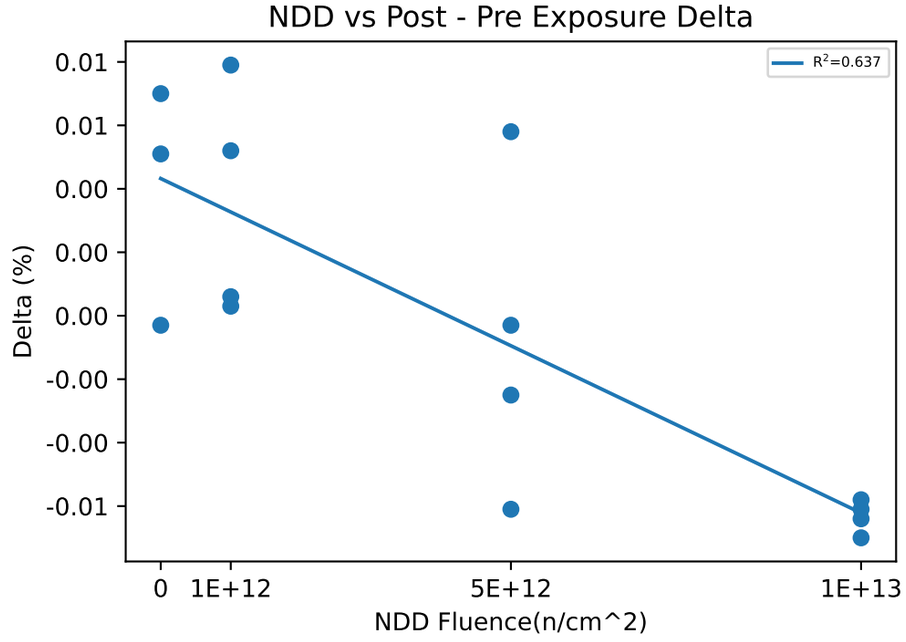
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.709	97.708	-0.0006
304	1e+12	NDD Unbiased	97.695	97.7	0.0052
305	1e+12	NDD Unbiased	97.685	97.69	0.0046
306	1e+12	NDD Unbiased	97.707	97.705	-0.0019
307	5e+12	NDD Unbiased	97.708	97.713	0.0049
308	5e+12	NDD Unbiased	97.671	97.669	-0.0019
309	5e+12	NDD Unbiased	97.718	97.717	-0.0003
310	5e+12	NDD Unbiased	97.71	97.728	0.018
311	1e+13	NDD Unbiased	97.718	97.716	-0.0018
312	1e+13	NDD Unbiased	97.7	97.695	-0.0051
313	1e+13	NDD Unbiased	97.677	97.672	-0.0043
314	1e+13	NDD Unbiased	97.695	97.688	-0.007
315	0	Correlation	97.746	97.754	0.0086
316	0	Correlation	97.715	97.72	0.0052
317	0	Correlation	97.76	97.763	0.0024

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.715	97.74	97.76	0.023056	97.72	97.746	97.763	0.022432	0.0024	0.0054	0.0086	0.0031048
1e+12	97.685	97.699	97.709	0.01116	97.69	97.701	97.708	0.0081508	-0.0019	0.001825	0.0052	0.0035985
5e+12	97.671	97.702	97.718	0.020691	97.669	97.707	97.728	0.025784	-0.0019	0.005175	0.018	0.0090294
1e+13	97.677	97.697	97.718	0.01688	97.672	97.693	97.716	0.018058	-0.007	-0.00455	-0.0018	0.0021548

Device Test: 6.46; VOH_WDO_2MA





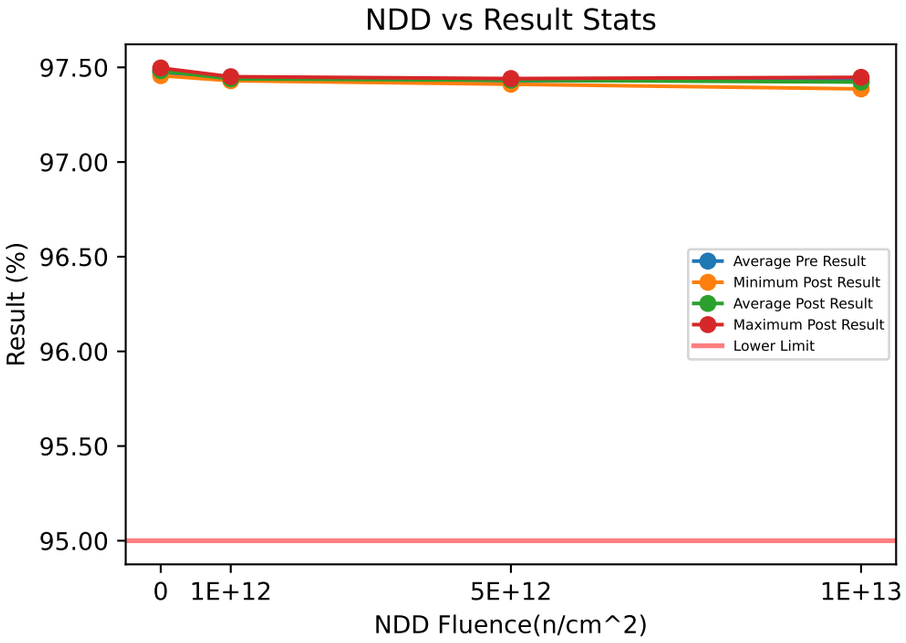
Test Results (Lower Limit = 95.0 (%))

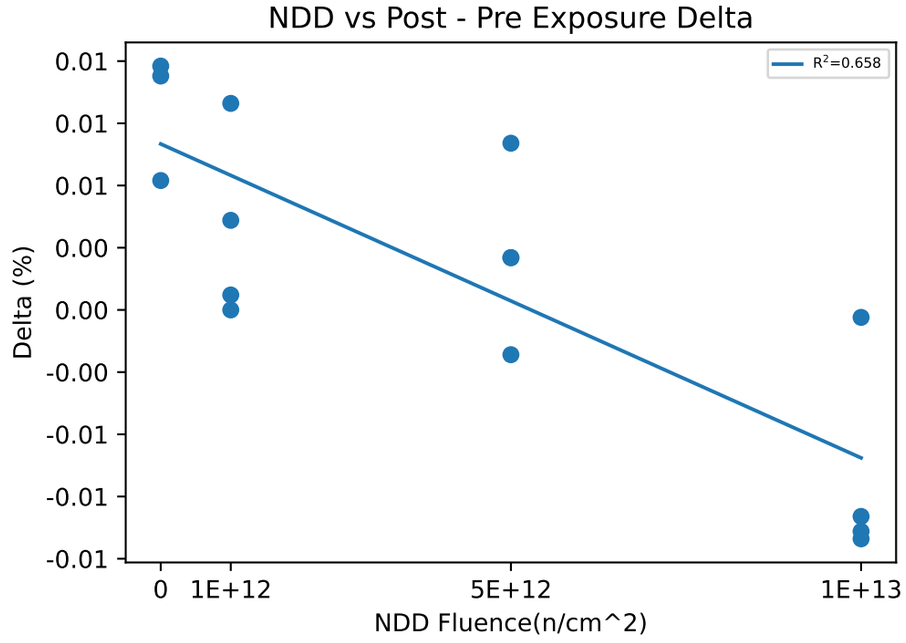
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.4	97.4	0.0003
304	1e+12	NDD Unbiased	97.382	97.387	0.0052
305	1e+12	NDD Unbiased	97.385	97.386	0.0006
306	1e+12	NDD Unbiased	97.399	97.407	0.0079
307	5e+12	NDD Unbiased	97.392	97.397	0.0058
308	5e+12	NDD Unbiased	97.362	97.356	-0.0061
309	5e+12	NDD Unbiased	97.401	97.401	-0.0003
310	5e+12	NDD Unbiased	97.395	97.393	-0.0025
311	1e+13	NDD Unbiased	97.404	97.397	-0.007
312	1e+13	NDD Unbiased	97.396	97.389	-0.0064
313	1e+13	NDD Unbiased	97.347	97.341	-0.0061
314	1e+13	NDD Unbiased	97.392	97.386	-0.0058
315	0	Correlation	97.443	97.45	0.007
316	0	Correlation	97.406	97.411	0.0051
317	0	Correlation	97.454	97.453	-0.0003

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.406	97.434	97.454	0.025195	97.411	97.438	97.453	0.023693	-0.0003	0.0039333	0.007	0.0037873
1e+12	97.382	97.392	97.4	0.0093543	97.386	97.395	97.407	0.010349	0.0003	0.0035	0.0079	0.0036923
5e+12	97.362	97.388	97.401	0.017479	97.356	97.387	97.401	0.02085	-0.0061	-0.000775	0.0058	0.0049929
1e+13	97.347	97.385	97.404	0.025817	97.341	97.379	97.397	0.025579	-0.007	-0.006325	-0.0058	0.00051235

Device Test: 6.47; VOH_PWRGD_2MA





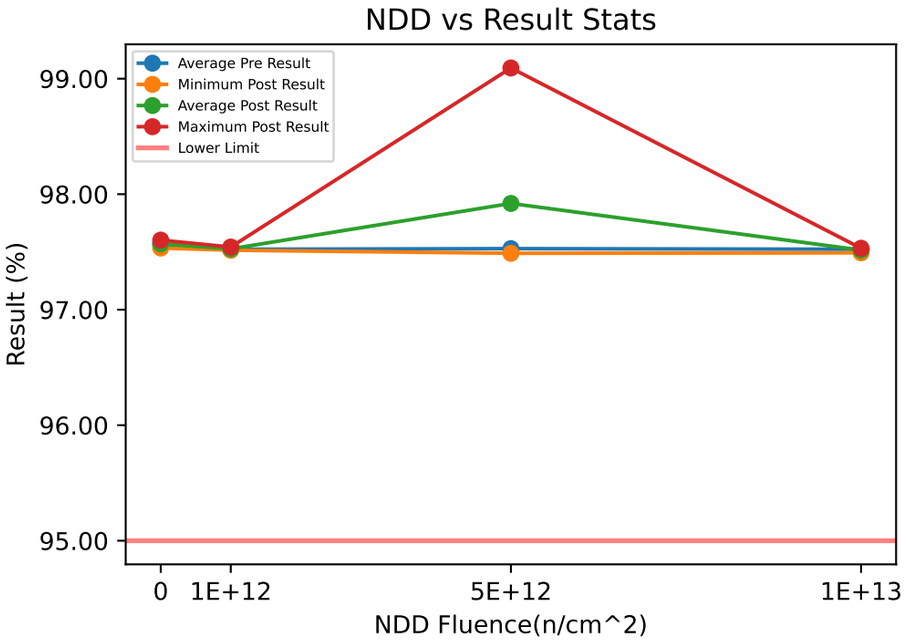
Test Results (Lower Limit = 95.0 (%))

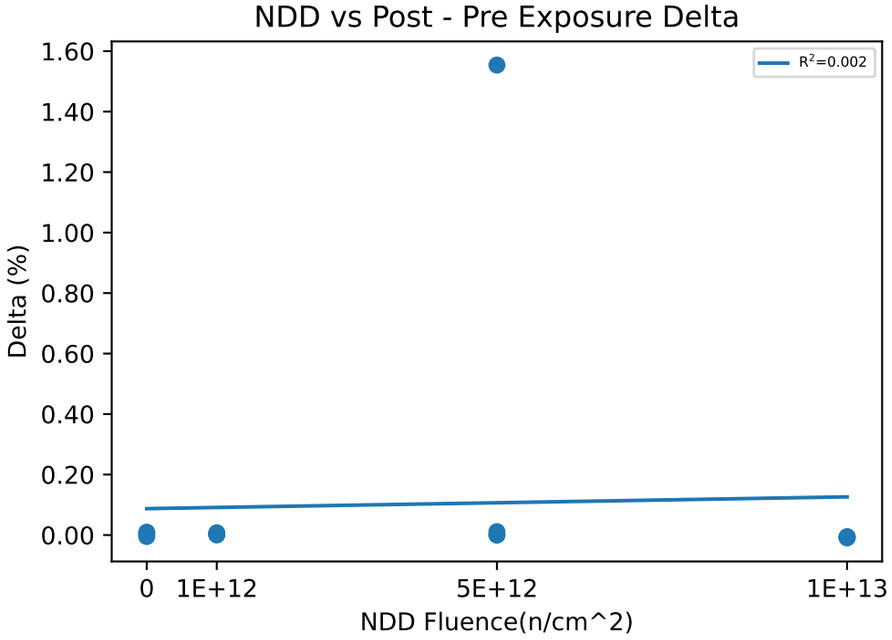
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.45	97.451	0.0006
304	1e+12	NDD Unbiased	97.432	97.432	0
305	1e+12	NDD Unbiased	97.421	97.429	0.0083
306	1e+12	NDD Unbiased	97.442	97.445	0.0036
307	5e+12	NDD Unbiased	97.434	97.441	0.0067
308	5e+12	NDD Unbiased	97.409	97.411	0.0021
309	5e+12	NDD Unbiased	97.438	97.436	-0.0018
310	5e+12	NDD Unbiased	97.438	97.44	0.0021
311	1e+13	NDD Unbiased	97.448	97.447	-0.0003
312	1e+13	NDD Unbiased	97.442	97.433	-0.0083
313	1e+13	NDD Unbiased	97.395	97.386	-0.0089
314	1e+13	NDD Unbiased	97.432	97.423	-0.0092
315	0	Correlation	97.485	97.494	0.0094
316	0	Correlation	97.446	97.456	0.0098
317	0	Correlation	97.492	97.497	0.0052

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.446	97.474	97.492	0.024393	97.456	97.482	97.497	0.022753	0.0052	0.0081333	0.0098	0.0025482
1e+12	97.421	97.436	97.45	0.012447	97.429	97.439	97.451	0.010171	0	0.003125	0.0083	0.0037924
5e+12	97.409	97.43	97.438	0.01411	97.411	97.432	97.441	0.01424	-0.0018	0.002275	0.0067	0.003476
1e+13	97.395	97.429	97.448	0.023514	97.386	97.422	97.447	0.026122	-0.0092	-0.006675	-0.0003	0.0042664

Device Test: 6.48; VOH_RESET_2MA





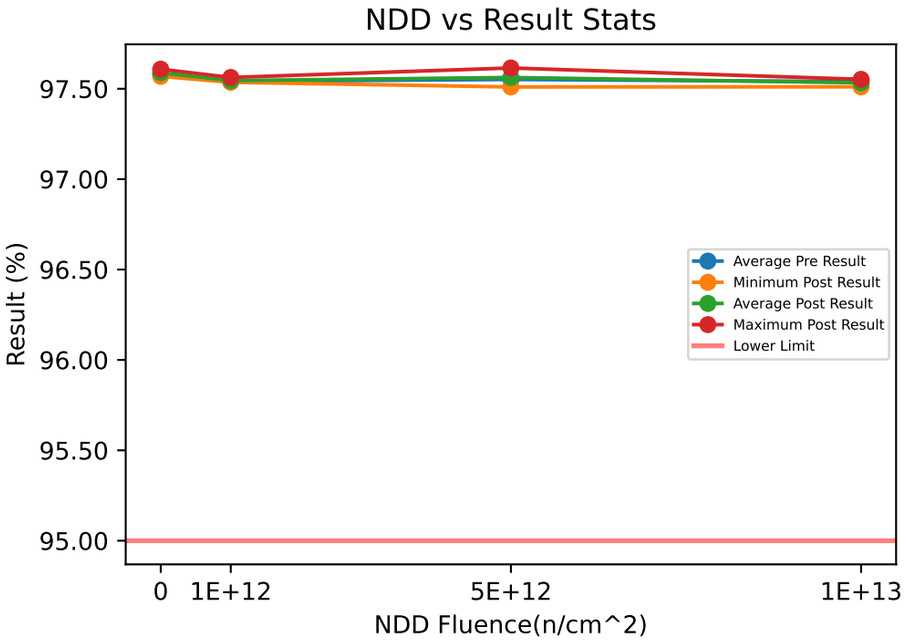
Test Results (Lower Limit = 95.0 (%))

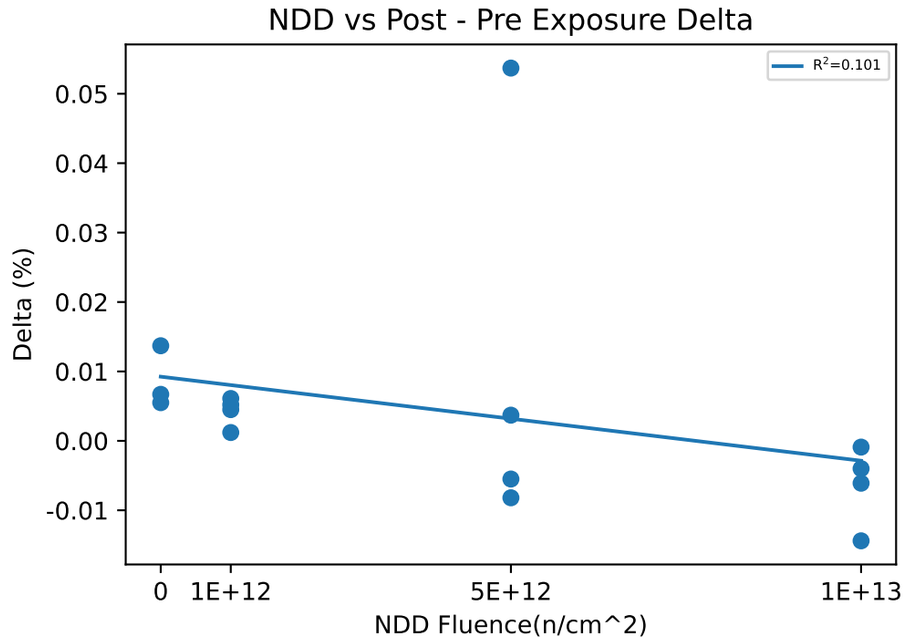
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.538	97.542	0.0039
304	1e+12	NDD Unbiased	97.513	97.52	0.0074
305	1e+12	NDD Unbiased	97.515	97.515	0.0003
306	1e+12	NDD Unbiased	97.527	97.53	0.003
307	5e+12	NDD Unbiased	97.537	97.548	0.011
308	5e+12	NDD Unbiased	97.488	97.488	0
309	5e+12	NDD Unbiased	97.55	97.551	0.0006
310	5e+12	NDD Unbiased	97.539	99.093	1.5539
311	1e+13	NDD Unbiased	97.528	97.52	-0.0073
312	1e+13	NDD Unbiased	97.537	97.532	-0.0054
313	1e+13	NDD Unbiased	97.501	97.492	-0.0092
314	1e+13	NDD Unbiased	97.526	97.519	-0.0077
315	0	Correlation	97.564	97.573	0.0094
316	0	Correlation	97.539	97.534	-0.0049
317	0	Correlation	97.599	97.602	0.003

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.539	97.567	97.599	0.030507	97.534	97.57	97.602	0.034421	-0.0049	0.0025	0.0094	0.0071631
1e+12	97.513	97.523	97.538	0.011947	97.515	97.527	97.542	0.012052	0.0003	0.00365	0.0074	0.0029309
5e+12	97.488	97.529	97.55	0.027472	97.488	97.92	99.093	0.78233	0	0.39138	1.5539	0.77503
1e+13	97.501	97.523	97.537	0.015315	97.492	97.516	97.532	0.016781	-0.0092	-0.0074	-0.0054	0.0015642

Device Test: 6.49; VOH_RESET_2MA





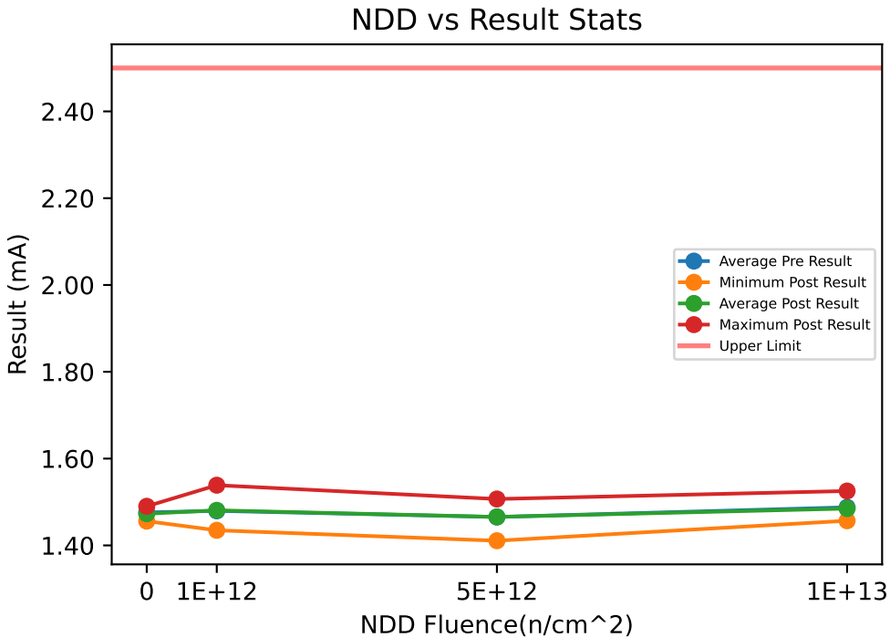
Test Results (Lower Limit = 95.0 (%))

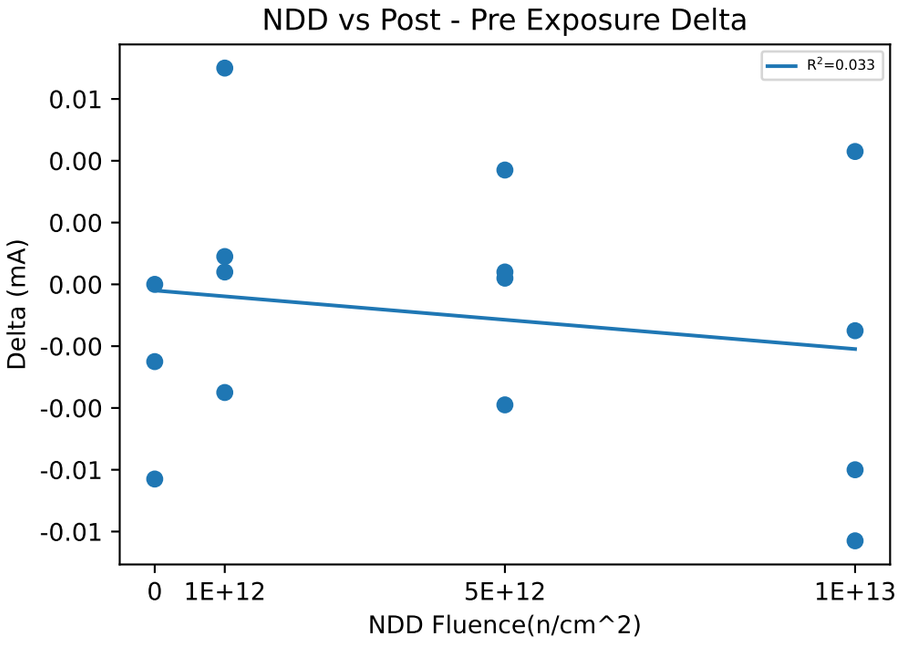
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.542	97.543	0.0012
304	1e+12	NDD Unbiased	97.534	97.54	0.0061
305	1e+12	NDD Unbiased	97.53	97.536	0.0052
306	1e+12	NDD Unbiased	97.558	97.562	0.0045
307	5e+12	NDD Unbiased	97.553	97.557	0.0037
308	5e+12	NDD Unbiased	97.518	97.51	-0.0082
309	5e+12	NDD Unbiased	97.573	97.568	-0.0055
310	5e+12	NDD Unbiased	97.561	97.615	0.0537
311	1e+13	NDD Unbiased	97.553	97.552	-0.0009
312	1e+13	NDD Unbiased	97.552	97.538	-0.0144
313	1e+13	NDD Unbiased	97.515	97.511	-0.004
314	1e+13	NDD Unbiased	97.537	97.531	-0.0061
315	0	Correlation	97.582	97.589	0.0067
316	0	Correlation	97.555	97.569	0.0137
317	0	Correlation	97.603	97.608	0.0055

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.555	97.58	97.603	0.024038	97.569	97.589	97.608	0.019854	0.0055	0.0086333	0.0137	0.0044287
1e+12	97.53	97.541	97.558	0.012311	97.536	97.545	97.562	0.011897	0.0012	0.00425	0.0061	0.0021362
5e+12	97.518	97.551	97.573	0.023606	97.51	97.562	97.615	0.043056	-0.0082	0.010925	0.0537	0.028968
1e+13	97.515	97.539	97.553	0.018033	97.511	97.533	97.552	0.017289	-0.0144	-0.00635	-0.0009	0.0057761

Device Test: 6.5; IQ





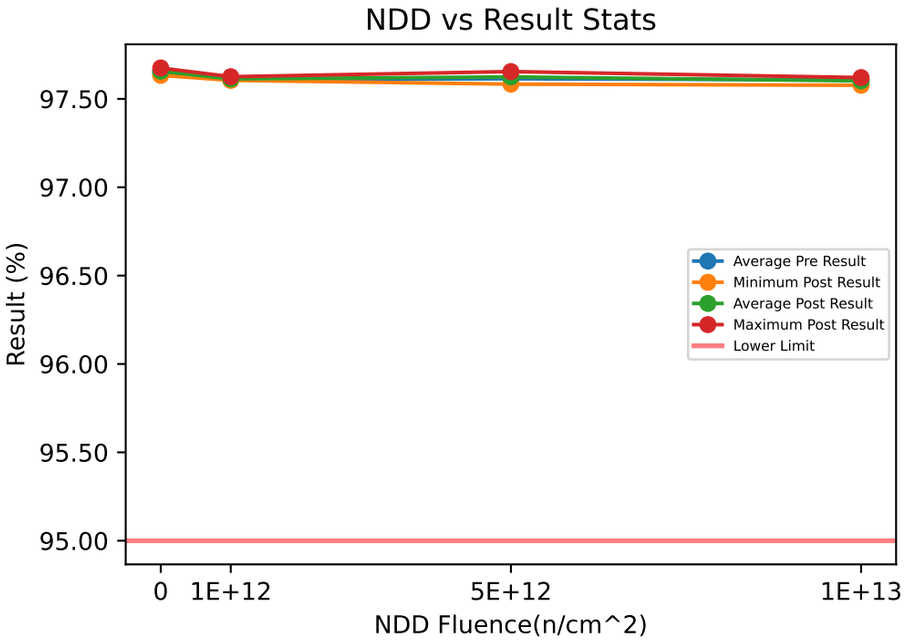
Test Results (Upper Limit = 2.5 (mA))

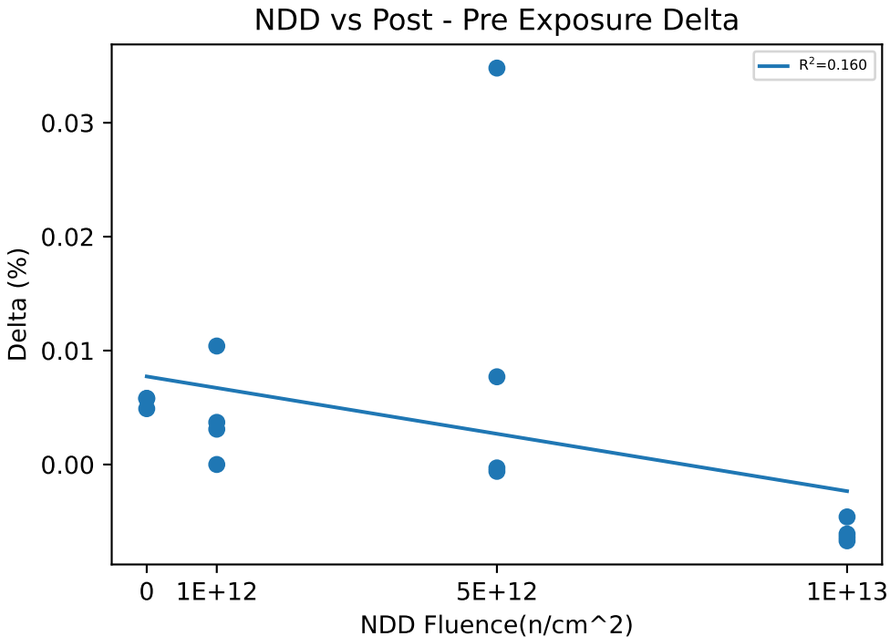
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.4862	1.4827	-0.0035
304	1e+12	NDD Unbiased	1.4667	1.4671	0.0004
305	1e+12	NDD Unbiased	1.4278	1.4348	0.007
306	1e+12	NDD Unbiased	1.5378	1.5387	0.0009
307	5e+12	NDD Unbiased	1.5032	1.5069	0.0037
308	5e+12	NDD Unbiased	1.4106	1.4108	0.0002
309	5e+12	NDD Unbiased	1.4803	1.4764	-0.0039
310	5e+12	NDD Unbiased	1.468	1.4684	0.0004
311	1e+13	NDD Unbiased	1.4841	1.4781	-0.006
312	1e+13	NDD Unbiased	1.4749	1.4792	0.0043
313	1e+13	NDD Unbiased	1.5268	1.5253	-0.0015
314	1e+13	NDD Unbiased	1.4651	1.4568	-0.0083
315	0	Correlation	1.4755	1.473	-0.0025
316	0	Correlation	1.4901	1.4901	0
317	0	Correlation	1.4622	1.4559	-0.0063

Test Statistics (mA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.4622	1.4759	1.4901	0.013955	1.4559	1.473	1.4901	0.0171	-0.0063	-0.0029333	0	0.0031723
1e+12	1.4278	1.4796	1.5378	0.045755	1.4348	1.4808	1.5387	0.043435	-0.0035	0.0012	0.007	0.0043382
5e+12	1.4106	1.4655	1.5032	0.039415	1.4108	1.4656	1.5069	0.040138	-0.0039	0.0001	0.0037	0.0031123
1e+13	1.4651	1.4877	1.5268	0.027181	1.4568	1.4849	1.5253	0.02887	-0.0083	-0.002875	0.0043	0.0055548

Device Test: 6.50; VOH_RESET_2MA





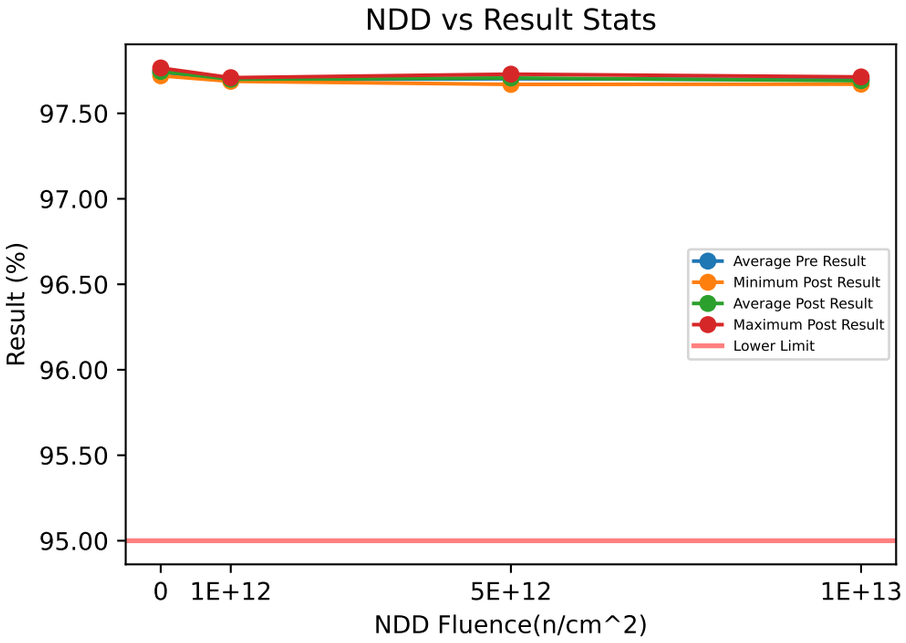
Test Results (Lower Limit = 95.0 (%))

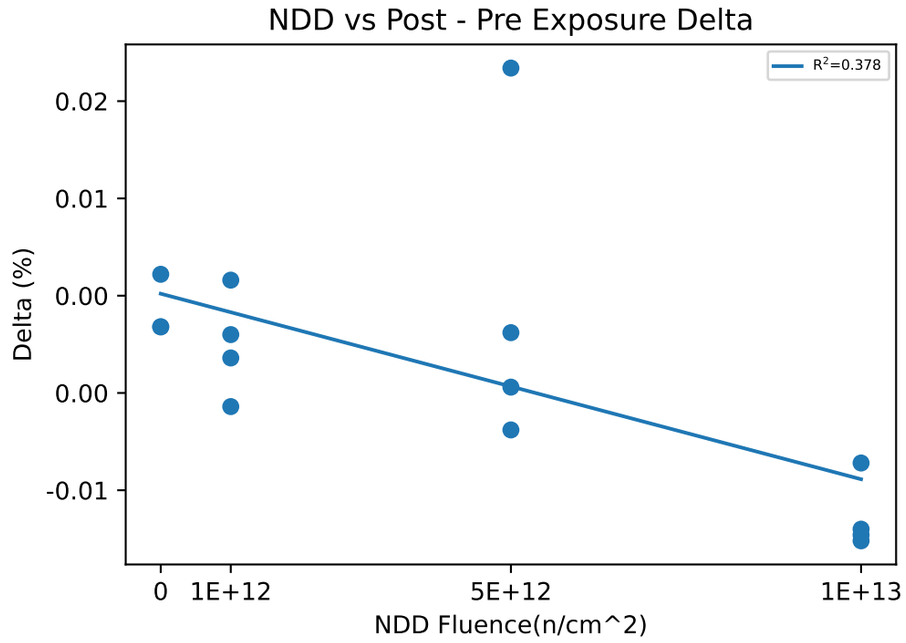
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.616	97.616	0
304	1e+12	NDD Unbiased	97.596	97.606	0.0104
305	1e+12	NDD Unbiased	97.602	97.605	0.0031
306	1e+12	NDD Unbiased	97.622	97.625	0.0037
307	5e+12	NDD Unbiased	97.621	97.629	0.0077
308	5e+12	NDD Unbiased	97.584	97.583	-0.0003
309	5e+12	NDD Unbiased	97.631	97.63	-0.0006
310	5e+12	NDD Unbiased	97.62	97.654	0.0348
311	1e+13	NDD Unbiased	97.627	97.621	-0.0061
312	1e+13	NDD Unbiased	97.616	97.611	-0.0046
313	1e+13	NDD Unbiased	97.584	97.577	-0.0067
314	1e+13	NDD Unbiased	97.605	97.598	-0.0064
315	0	Correlation	97.656	97.662	0.0058
316	0	Correlation	97.627	97.633	0.0058
317	0	Correlation	97.67	97.675	0.0049

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.627	97.651	97.67	0.021838	97.633	97.657	97.675	0.021455	0.0049	0.0055	0.0058	0.00051962
1e+12	97.596	97.609	97.622	0.011913	97.605	97.613	97.625	0.0095158	0	0.0043	0.0104	0.004378
5e+12	97.584	97.614	97.631	0.020665	97.583	97.624	97.654	0.029663	-0.0006	0.0104	0.0348	0.016715
1e+13	97.584	97.608	97.627	0.018402	97.577	97.602	97.621	0.018922	-0.0067	-0.00595	-0.0046	0.00093274

Device Test: 6.51; VOH_RESET_2MA





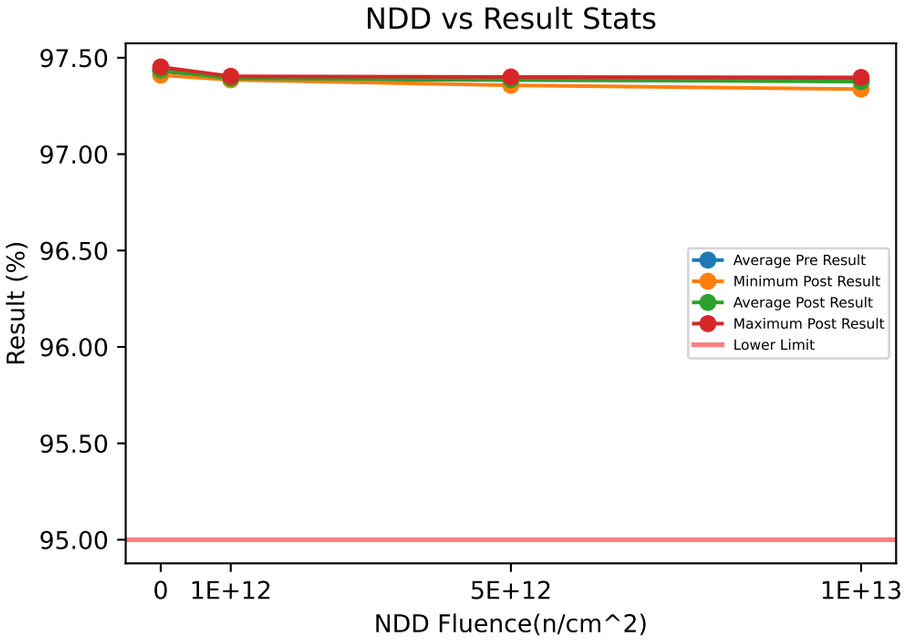
Test Results (Lower Limit = 95.0 (%))

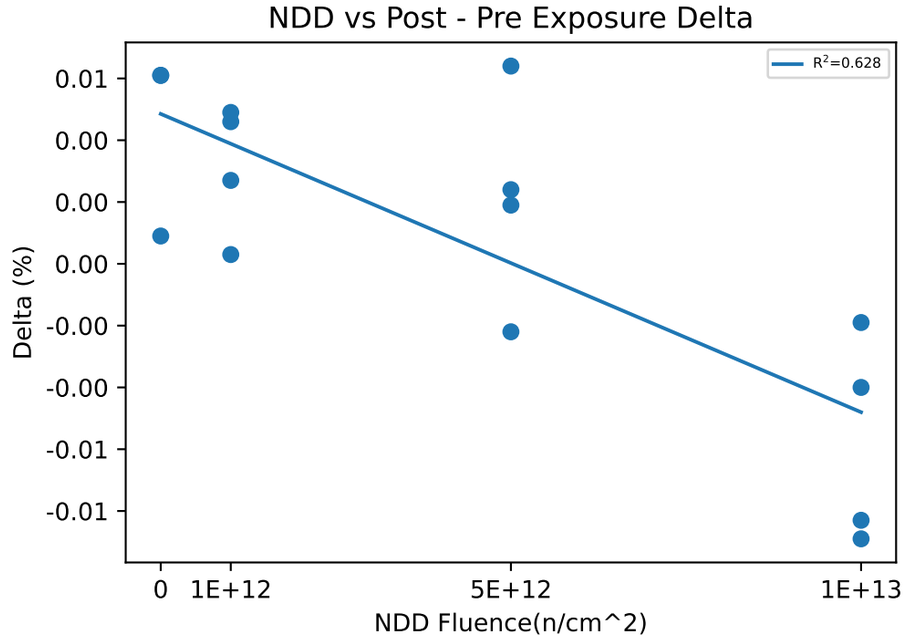
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.707	97.709	0.0018
304	1e+12	NDD Unbiased	97.691	97.697	0.0058
305	1e+12	NDD Unbiased	97.688	97.687	-0.0007
306	1e+12	NDD Unbiased	97.702	97.705	0.003
307	5e+12	NDD Unbiased	97.71	97.713	0.0031
308	5e+12	NDD Unbiased	97.671	97.669	-0.0019
309	5e+12	NDD Unbiased	97.716	97.716	0.0003
310	5e+12	NDD Unbiased	97.712	97.729	0.0167
311	1e+13	NDD Unbiased	97.716	97.713	-0.0036
312	1e+13	NDD Unbiased	97.7	97.692	-0.0073
313	1e+13	NDD Unbiased	97.678	97.671	-0.0076
314	1e+13	NDD Unbiased	97.695	97.688	-0.007
315	0	Correlation	97.747	97.75	0.0034
316	0	Correlation	97.716	97.72	0.0034
317	0	Correlation	97.759	97.765	0.0061

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.716	97.741	97.759	0.02216	97.72	97.745	97.765	0.023306	0.0034	0.0043	0.0061	0.0015588
1e+12	97.688	97.697	97.707	0.0090017	97.687	97.699	97.709	0.009564	-0.0007	0.002475	0.0058	0.0026998
5e+12	97.671	97.702	97.716	0.020833	97.669	97.707	97.729	0.025968	-0.0019	0.00455	0.0167	0.0083544
1e+13	97.678	97.697	97.716	0.015799	97.671	97.691	97.713	0.01743	-0.0076	-0.006375	-0.0036	0.0018661

Device Test: 6.52; VOH_WDO_2MA





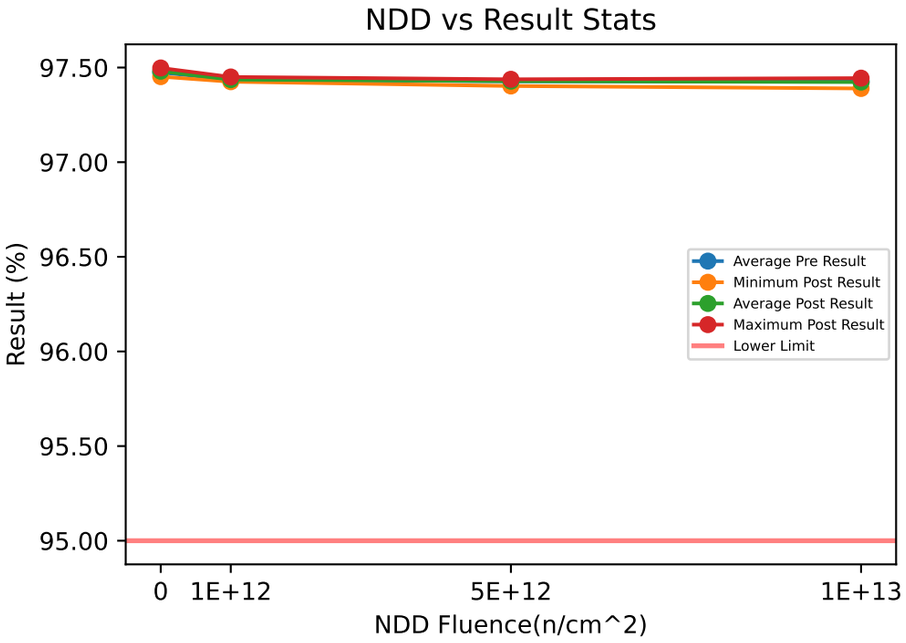
Test Results (Lower Limit = 95.0 (%))

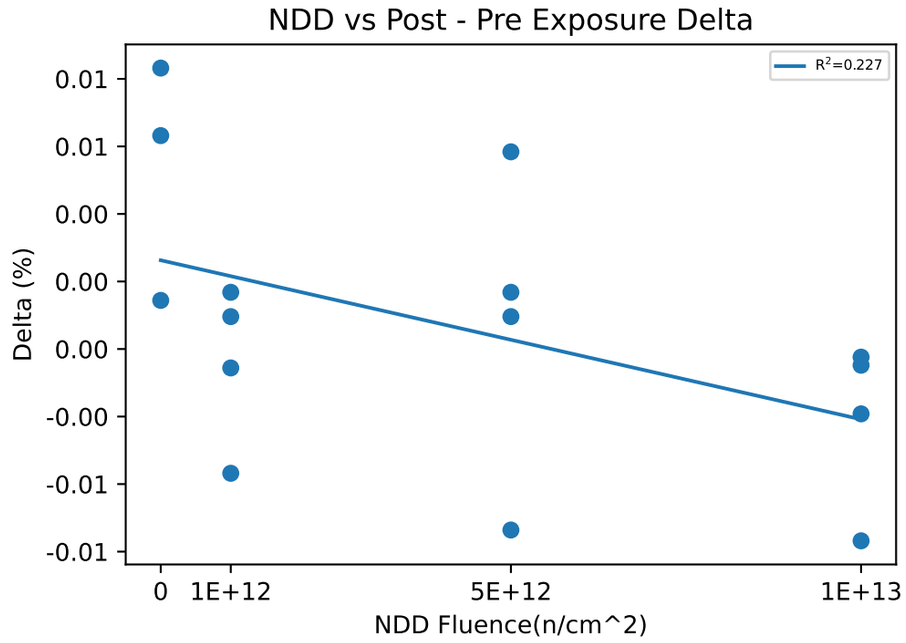
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.398	97.398	0.0003
304	1e+12	NDD Unbiased	97.381	97.385	0.0046
305	1e+12	NDD Unbiased	97.38	97.385	0.0049
306	1e+12	NDD Unbiased	97.401	97.404	0.0027
307	5e+12	NDD Unbiased	97.388	97.395	0.0064
308	5e+12	NDD Unbiased	97.359	97.357	-0.0022
309	5e+12	NDD Unbiased	97.398	97.4	0.0019
310	5e+12	NDD Unbiased	97.391	97.393	0.0024
311	1e+13	NDD Unbiased	97.4	97.398	-0.0019
312	1e+13	NDD Unbiased	97.394	97.386	-0.0083
313	1e+13	NDD Unbiased	97.346	97.337	-0.0089
314	1e+13	NDD Unbiased	97.388	97.384	-0.004
315	0	Correlation	97.441	97.447	0.0061
316	0	Correlation	97.404	97.41	0.0061
317	0	Correlation	97.451	97.452	0.0009

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.404	97.432	97.451	0.024973	97.41	97.436	97.452	0.023057	0.0009	0.0043667	0.0061	0.0030022
1e+12	97.38	97.39	97.401	0.011001	97.385	97.393	97.404	0.0093097	0.0003	0.003125	0.0049	0.0021203
5e+12	97.359	97.384	97.398	0.017214	97.357	97.386	97.4	0.0198	-0.0022	0.002125	0.0064	0.003517
1e+13	97.346	97.382	97.4	0.024389	97.337	97.376	97.398	0.026717	-0.0089	-0.005775	-0.0019	0.0033817

Device Test: 6.53; VOH_PWRGD_2MA





Test Results (Lower Limit = 95.0 (%))

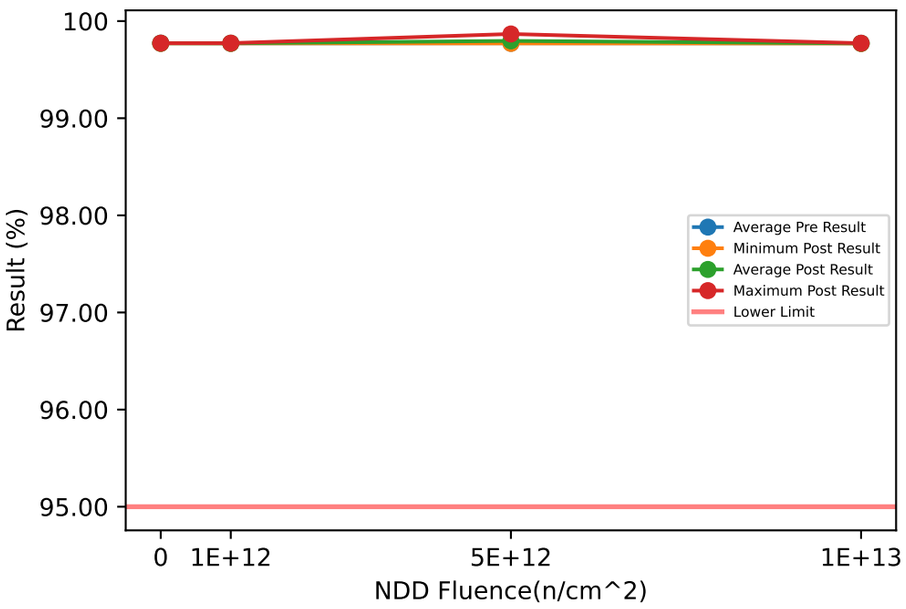
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	97.448	97.45	0.0021
304	1e+12	NDD Unbiased	97.43	97.429	-0.0007
305	1e+12	NDD Unbiased	97.424	97.425	0.0012
306	1e+12	NDD Unbiased	97.445	97.441	-0.0046
307	5e+12	NDD Unbiased	97.434	97.435	0.0012
308	5e+12	NDD Unbiased	97.409	97.403	-0.0067
309	5e+12	NDD Unbiased	97.436	97.438	0.0021
310	5e+12	NDD Unbiased	97.43	97.437	0.0073
311	1e+13	NDD Unbiased	97.445	97.444	-0.0006
312	1e+13	NDD Unbiased	97.441	97.434	-0.0071
313	1e+13	NDD Unbiased	97.39	97.389	-0.0003
314	1e+13	NDD Unbiased	97.427	97.425	-0.0024
315	0	Correlation	97.482	97.492	0.0104
316	0	Correlation	97.45	97.452	0.0018
317	0	Correlation	97.49	97.498	0.0079

Test Statistics (%)

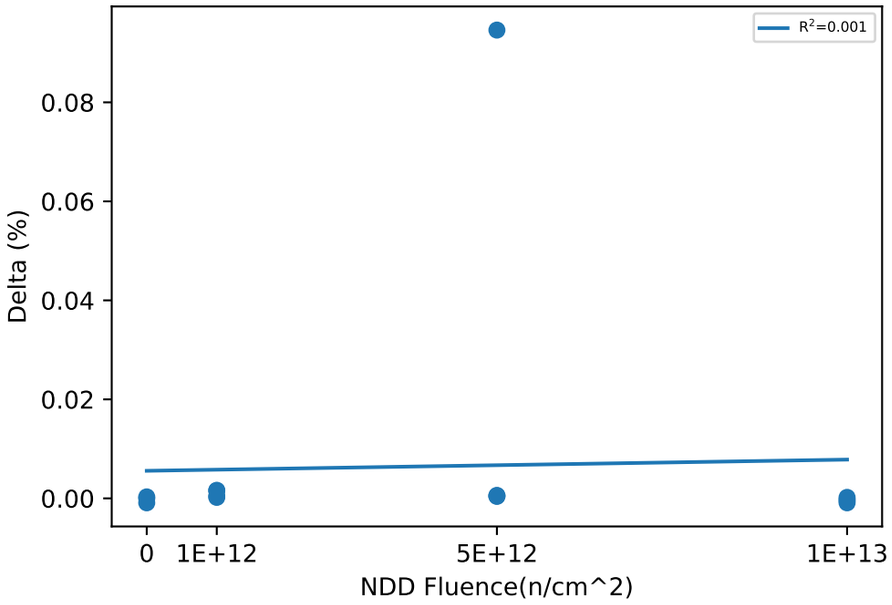
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	97.45	97.474	97.49	0.020996	97.452	97.481	97.498	0.025007	0.0018	0.0067	0.0104	0.0044238
1e+12	97.424	97.437	97.448	0.01173	97.425	97.436	97.45	0.011367	-0.0046	-0.0005	0.0021	0.0029721
5e+12	97.409	97.427	97.436	0.012203	97.403	97.428	97.438	0.017136	-0.0067	0.000975	0.0073	0.0057801
1e+13	97.39	97.426	97.445	0.025165	97.389	97.423	97.444	0.023803	-0.0071	-0.0026	-0.0003	0.0031401

Device Test: 6.54; VOH_RESET_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



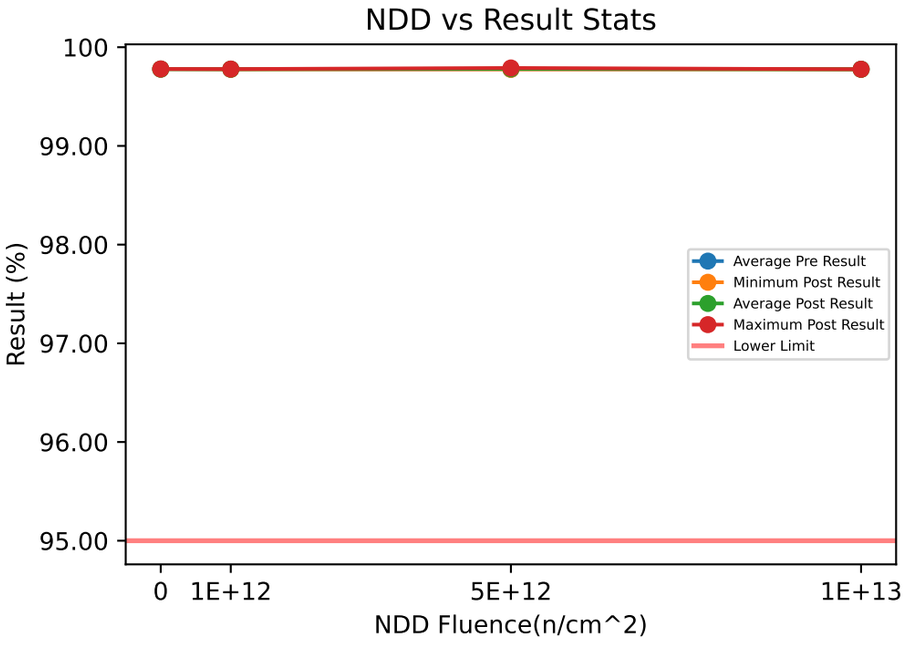
Test Results (Lower Limit = 95.0 (%))

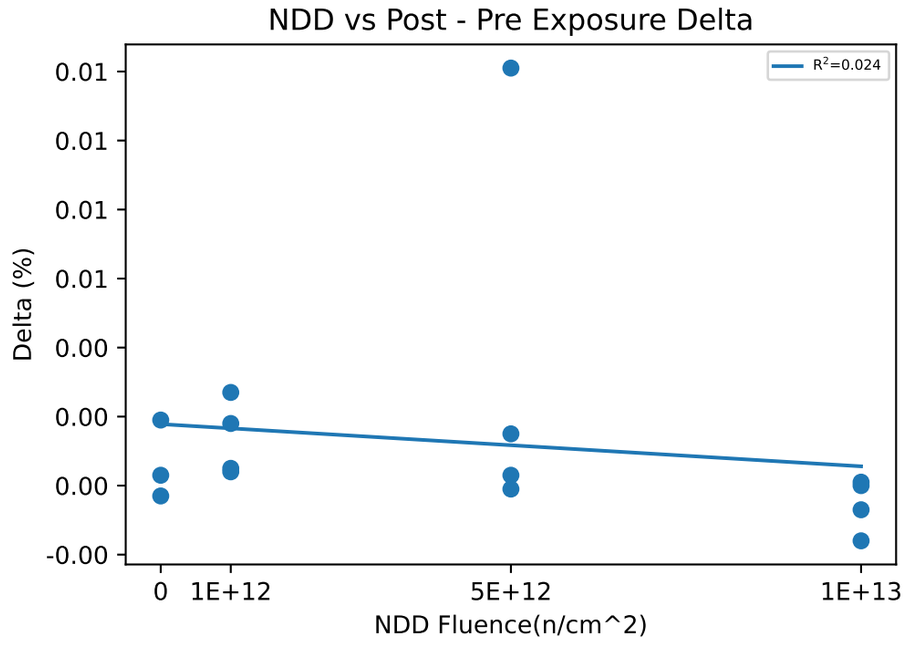
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.771	99.773	0.0016
304	1e+12	NDD Unbiased	99.77	99.772	0.0016
305	1e+12	NDD Unbiased	99.77	99.771	0.0002
306	1e+12	NDD Unbiased	99.772	99.772	0.0005
307	5e+12	NDD Unbiased	99.772	99.772	0.0005
308	5e+12	NDD Unbiased	99.77	99.77	0.0004
309	5e+12	NDD Unbiased	99.773	99.774	0.0006
310	5e+12	NDD Unbiased	99.773	99.867	0.0946
311	1e+13	NDD Unbiased	99.77	99.77	-0.0002
312	1e+13	NDD Unbiased	99.773	99.772	-0.0005
313	1e+13	NDD Unbiased	99.771	99.77	-0.0009
314	1e+13	NDD Unbiased	99.772	99.772	0.0002
315	0	Correlation	99.773	99.773	0
316	0	Correlation	99.771	99.771	0.0003
317	0	Correlation	99.773	99.772	-0.0009

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.771	99.772	99.773	0.0013796	99.771	99.772	99.773	0.00094516	-0.0009	-0.0002	0.0003	0.0006245
1e+12	99.77	99.771	99.772	0.00077889	99.771	99.772	99.773	0.001021	0.0002	0.000975	0.0016	0.00073201
5e+12	99.77	99.772	99.773	0.0015588	99.77	99.796	99.867	0.047576	0.0004	0.024025	0.0946	0.04705
1e+13	99.77	99.771	99.773	0.0012659	99.77	99.771	99.772	0.0013326	-0.0009	-0.00035	0.0002	0.00046547

Device Test: 6.55; VOH_RESET_2MA





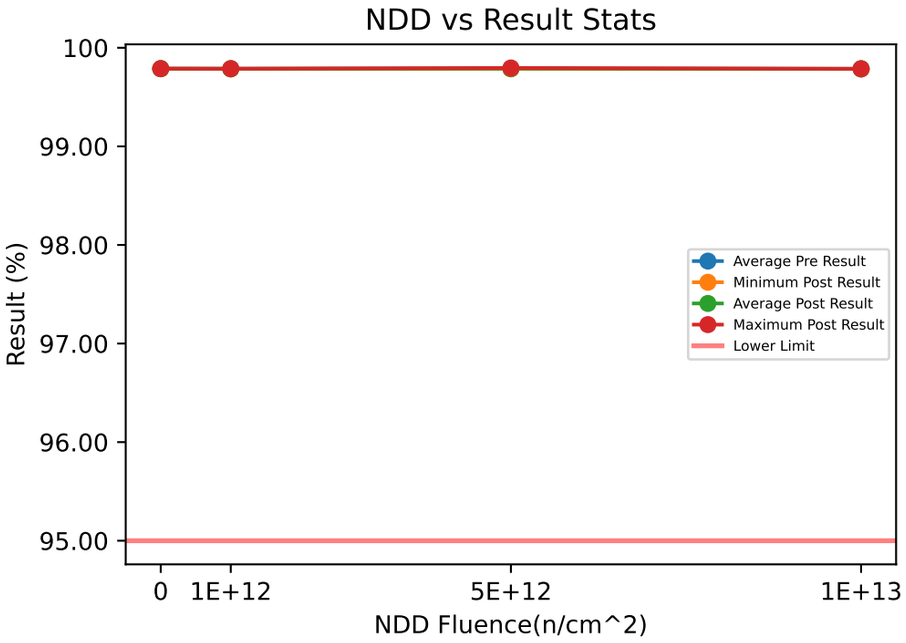
Test Results (Lower Limit = 95.0 (%))

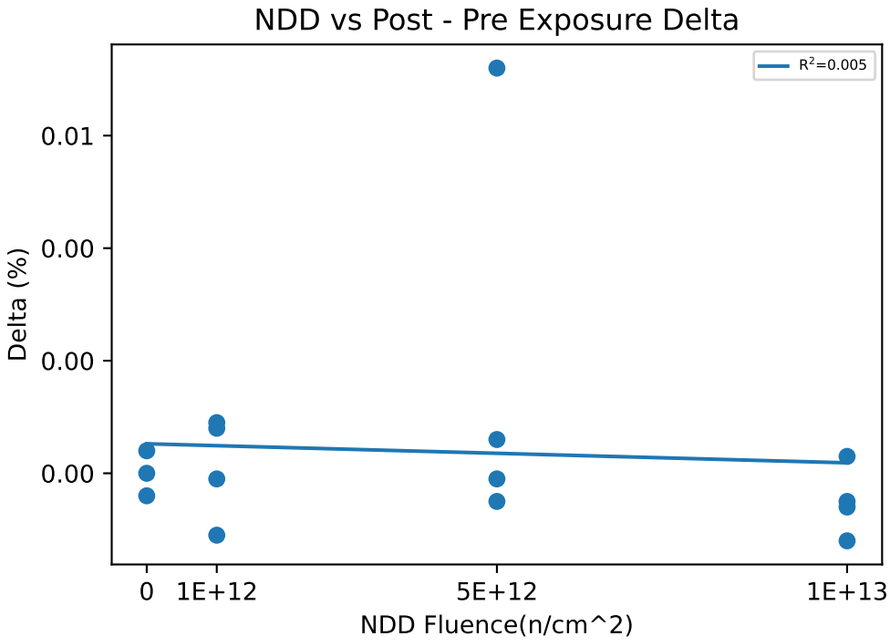
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.777	99.779	0.0018
304	1e+12	NDD Unbiased	99.776	99.778	0.0027
305	1e+12	NDD Unbiased	99.775	99.776	0.0004
306	1e+12	NDD Unbiased	99.778	99.779	0.0005
307	5e+12	NDD Unbiased	99.778	99.778	0.0003
308	5e+12	NDD Unbiased	99.775	99.775	-0.0001
309	5e+12	NDD Unbiased	99.779	99.78	0.0015
310	5e+12	NDD Unbiased	99.778	99.79	0.0121
311	1e+13	NDD Unbiased	99.776	99.776	0
312	1e+13	NDD Unbiased	99.778	99.776	-0.0016
313	1e+13	NDD Unbiased	99.777	99.777	0.0001
314	1e+13	NDD Unbiased	99.777	99.776	-0.0007
315	0	Correlation	99.778	99.78	0.0019
316	0	Correlation	99.777	99.778	0.0003
317	0	Correlation	99.778	99.778	-0.0003

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.777	99.778	99.778	0.00032146	99.778	99.778	99.78	0.0013	-0.0003	0.00063333	0.0019	0.0011372
1e+12	99.775	99.777	99.778	0.001223	99.776	99.778	99.779	0.0014221	0.0004	0.00135	0.0027	0.001103
5e+12	99.775	99.777	99.779	0.001565	99.775	99.781	99.79	0.0062409	-0.0001	0.00345	0.0121	0.0058066
1e+13	99.776	99.777	99.778	0.00078528	99.776	99.776	99.777	0.00037417	-0.0016	-0.00055	0.0001	0.00078528

Device Test: 6.56; VOH_RESET_2MA





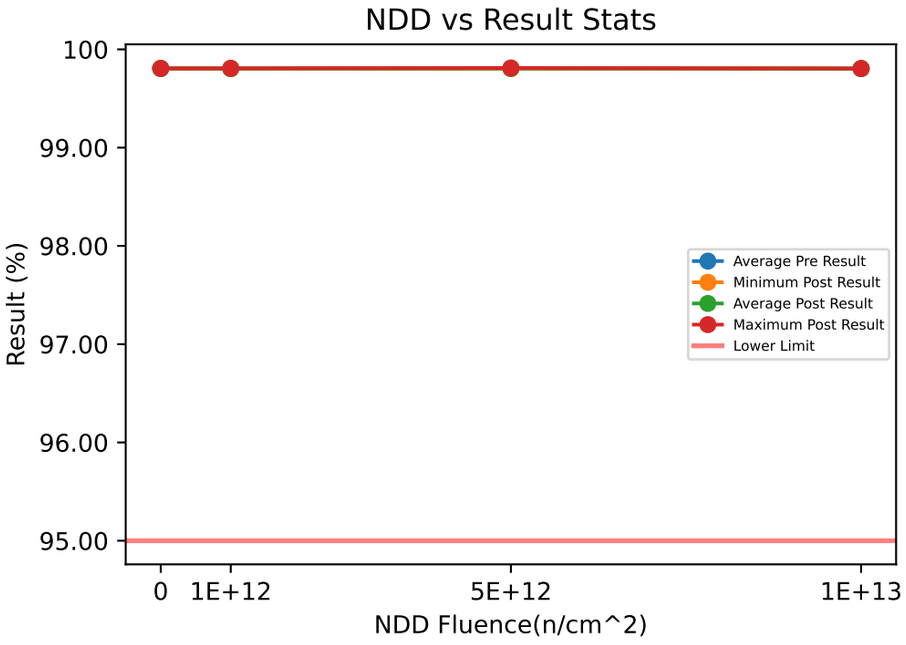
Test Results (Lower Limit = 95.0 (%))

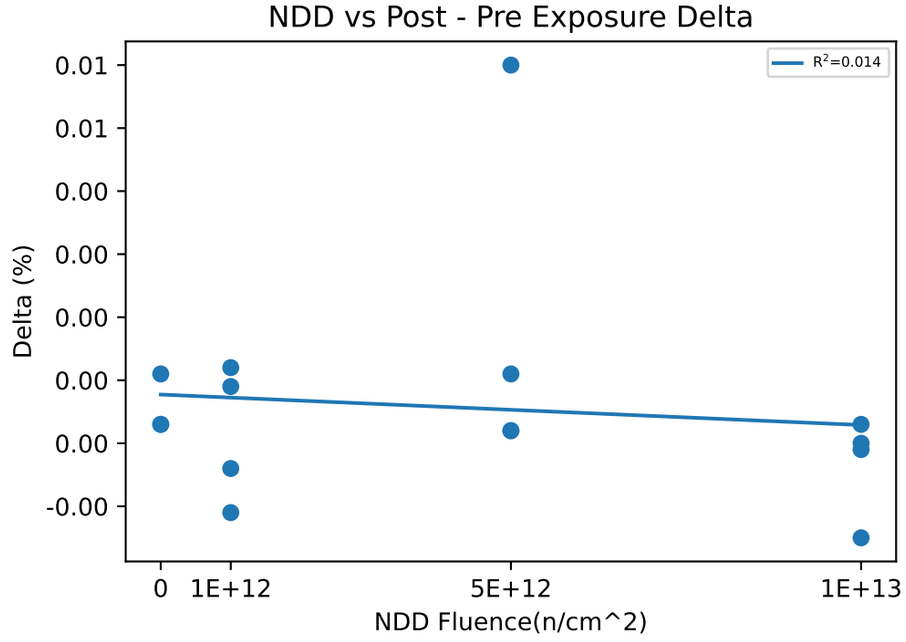
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.787	99.788	0.0008
304	1e+12	NDD Unbiased	99.787	99.786	-0.0011
305	1e+12	NDD Unbiased	99.787	99.787	-0.0001
306	1e+12	NDD Unbiased	99.787	99.788	0.0009
307	5e+12	NDD Unbiased	99.788	99.788	0.0006
308	5e+12	NDD Unbiased	99.786	99.786	-0.0005
309	5e+12	NDD Unbiased	99.789	99.789	-0.0001
310	5e+12	NDD Unbiased	99.788	99.795	0.0072
311	1e+13	NDD Unbiased	99.786	99.785	-0.0006
312	1e+13	NDD Unbiased	99.788	99.787	-0.0012
313	1e+13	NDD Unbiased	99.786	99.786	-0.0005
314	1e+13	NDD Unbiased	99.787	99.787	0.0003
315	0	Correlation	99.789	99.788	-0.0004
316	0	Correlation	99.787	99.787	0
317	0	Correlation	99.788	99.788	0.0004

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.787	99.788	99.789	0.00095044	99.787	99.788	99.788	0.00083865	-0.0004	0	0.0004	0.0004
1e+12	99.787	99.787	99.787	0.0001633	99.786	99.787	99.788	0.0010079	-0.0011	0.000125	0.0009	0.00093229
5e+12	99.786	99.788	99.789	0.0010436	99.786	99.789	99.795	0.0040011	-0.0005	0.0018	0.0072	0.0036286
1e+13	99.786	99.787	99.788	0.00082865	99.785	99.786	99.787	0.00070238	-0.0012	-0.0005	0.0003	0.00061644

Device Test: 6.57; VOH_RESET_2MA





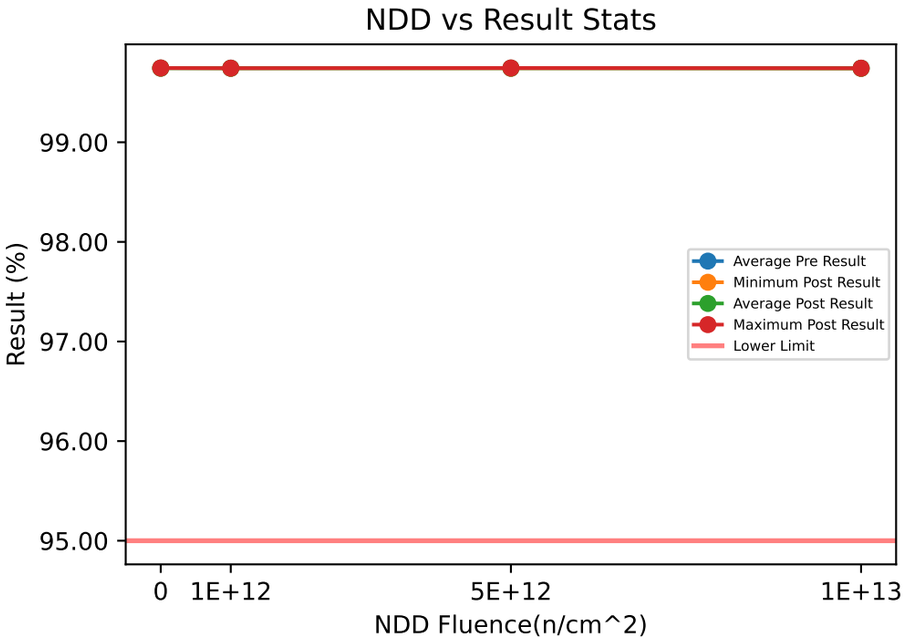
Test Results (Lower Limit = 95.0 (%))

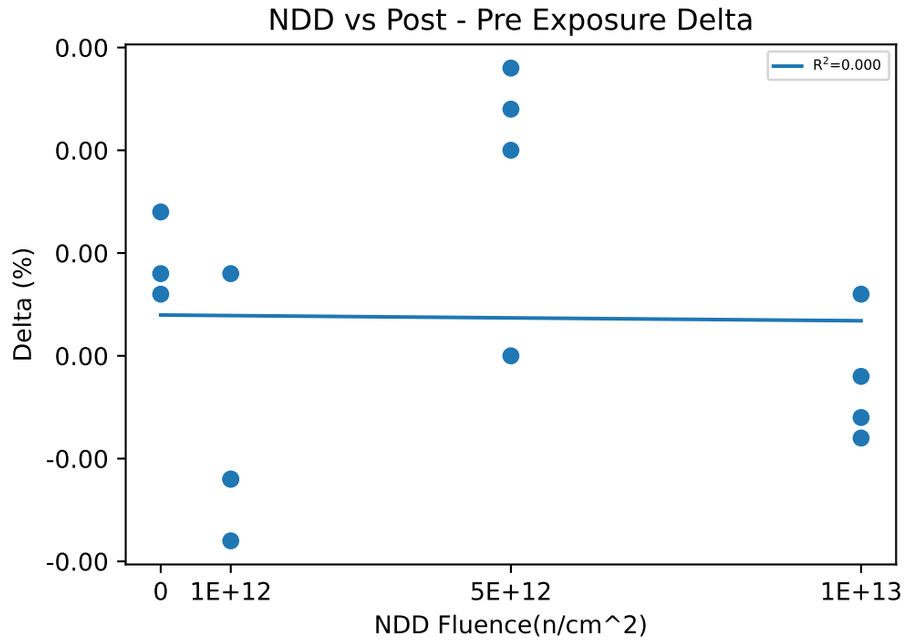
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.806	99.807	0.0012
304	1e+12	NDD Unbiased	99.805	99.805	0.0009
305	1e+12	NDD Unbiased	99.804	99.803	-0.0011
306	1e+12	NDD Unbiased	99.805	99.805	-0.0004
307	5e+12	NDD Unbiased	99.805	99.806	0.0011
308	5e+12	NDD Unbiased	99.804	99.804	0.0002
309	5e+12	NDD Unbiased	99.806	99.807	0.0002
310	5e+12	NDD Unbiased	99.805	99.811	0.006
311	1e+13	NDD Unbiased	99.805	99.805	0.0003
312	1e+13	NDD Unbiased	99.805	99.804	-0.0015
313	1e+13	NDD Unbiased	99.805	99.805	-0.0001
314	1e+13	NDD Unbiased	99.805	99.805	0
315	0	Correlation	99.805	99.806	0.0011
316	0	Correlation	99.805	99.805	0.0003
317	0	Correlation	99.805	99.806	0.0003

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.805	99.805	99.805	0.00011547	99.805	99.806	99.806	0.00041633	0.0003	0.00056667	0.0011	0.00046188
1e+12	99.804	99.805	99.806	0.00071822	99.803	99.805	99.807	0.0016112	-0.0011	0.00015	0.0012	0.0010847
5e+12	99.804	99.805	99.806	0.0010893	99.804	99.807	99.811	0.0027765	0.0002	0.001875	0.006	0.0027825
1e+13	99.805	99.805	99.805	0.00029861	99.804	99.804	99.805	0.00050662	-0.0015	-0.000325	0.0003	0.00080156

Device Test: 6.58; VOH_WDO_2MA





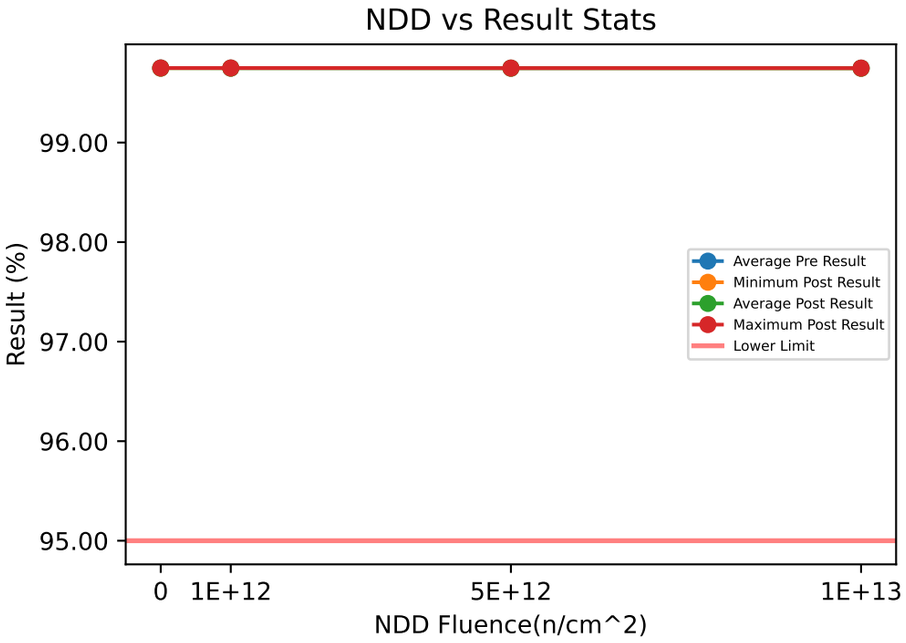
Test Results (Lower Limit = 95.0 (%))

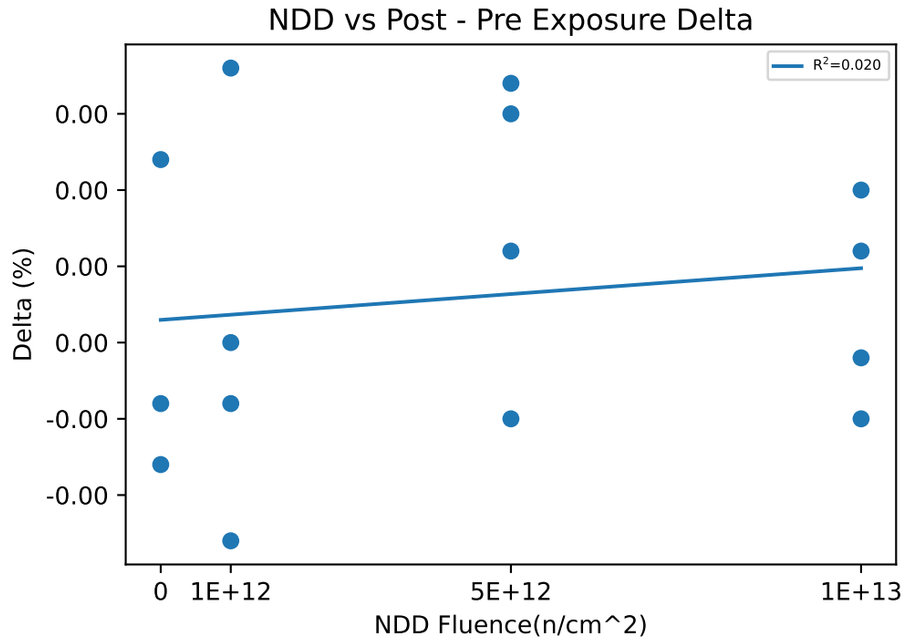
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.745	99.744	-0.0009
304	1e+12	NDD Unbiased	99.744	99.744	0.0004
305	1e+12	NDD Unbiased	99.743	99.743	-0.0006
306	1e+12	NDD Unbiased	99.743	99.743	-0.0006
307	5e+12	NDD Unbiased	99.744	99.745	0.0012
308	5e+12	NDD Unbiased	99.743	99.743	0
309	5e+12	NDD Unbiased	99.744	99.746	0.0014
310	5e+12	NDD Unbiased	99.744	99.745	0.001
311	1e+13	NDD Unbiased	99.743	99.744	0.0003
312	1e+13	NDD Unbiased	99.744	99.744	-0.0003
313	1e+13	NDD Unbiased	99.742	99.742	-0.0004
314	1e+13	NDD Unbiased	99.744	99.744	-0.0001
315	0	Correlation	99.745	99.746	0.0007
316	0	Correlation	99.743	99.744	0.0004
317	0	Correlation	99.744	99.744	0.0003

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.743	99.744	99.745	0.00083267	99.744	99.744	99.746	0.0010214	0.0003	0.00046667	0.0007	0.00020817
1e+12	99.743	99.744	99.745	0.00073485	99.743	99.743	99.744	0.00066521	-0.0009	-0.000425	0.0004	0.00056789
5e+12	99.743	99.744	99.744	0.00074106	99.743	99.744	99.746	0.0013451	0	0.0009	0.0014	0.00062183
1e+13	99.742	99.743	99.744	0.00096047	99.742	99.743	99.744	0.001103	-0.0004	-0.000125	0.0003	0.00030957

Device Test: 6.59; VOH_PWRGD_2MA





Test Results (Lower Limit = 95.0 (%))

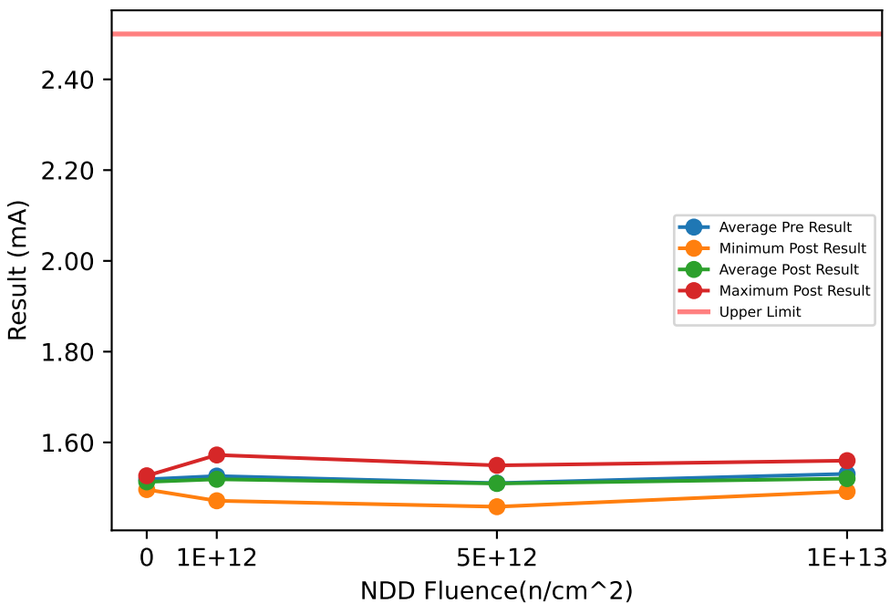
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.749	99.747	-0.0013
304	1e+12	NDD Unbiased	99.748	99.749	0.0018
305	1e+12	NDD Unbiased	99.748	99.748	0
306	1e+12	NDD Unbiased	99.748	99.747	-0.0004
307	5e+12	NDD Unbiased	99.746	99.748	0.0017
308	5e+12	NDD Unbiased	99.746	99.747	0.0006
309	5e+12	NDD Unbiased	99.747	99.749	0.0015
310	5e+12	NDD Unbiased	99.748	99.748	-0.0005
311	1e+13	NDD Unbiased	99.748	99.748	0.0006
312	1e+13	NDD Unbiased	99.748	99.748	-0.0001
313	1e+13	NDD Unbiased	99.745	99.746	0.001
314	1e+13	NDD Unbiased	99.748	99.747	-0.0005
315	0	Correlation	99.748	99.749	0.0012
316	0	Correlation	99.748	99.747	-0.0004
317	0	Correlation	99.749	99.749	-0.0008

Test Statistics (%)

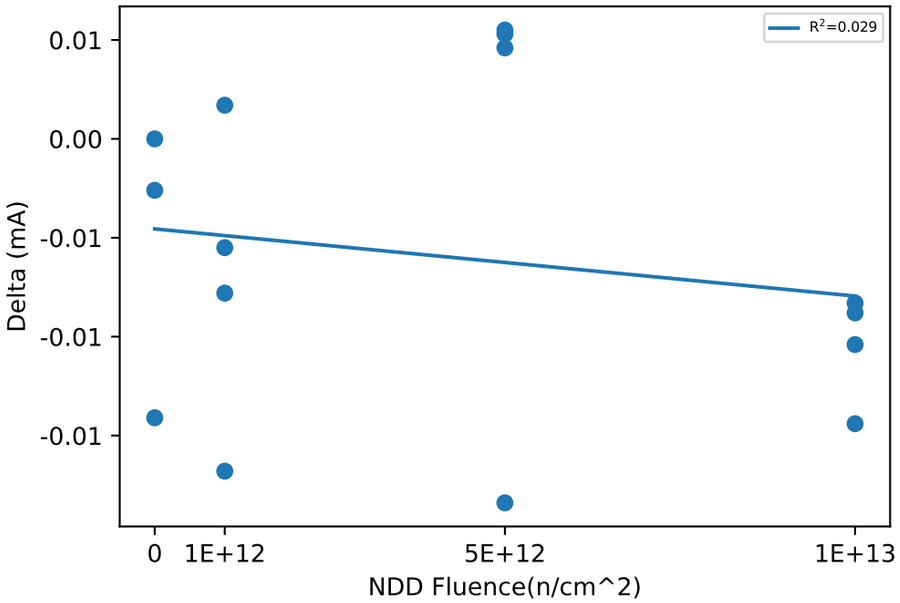
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.748	99.748	99.749	0.0010263	99.747	99.748	99.749	0.0011372	-0.0008	4.737e-15	0.0012	0.0010583
1e+12	99.748	99.748	99.749	0.00055603	99.747	99.748	99.749	0.00094163	-0.0013	2.5e-05	0.0018	0.0013022
5e+12	99.746	99.747	99.748	0.0010046	99.747	99.748	99.749	0.00081854	-0.0005	0.000825	0.0017	0.0010046
1e+13	99.745	99.747	99.748	0.001493	99.746	99.747	99.748	0.0011057	-0.0005	0.00025	0.001	0.00067577

Device Test: 6.6; IQ

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



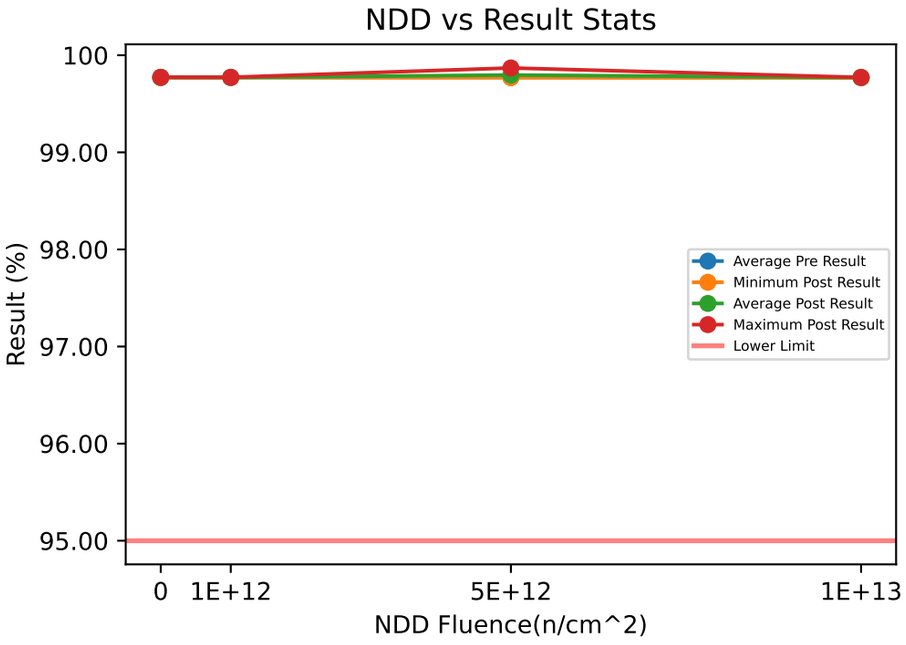
Test Results (Upper Limit = 2.5 (mA))

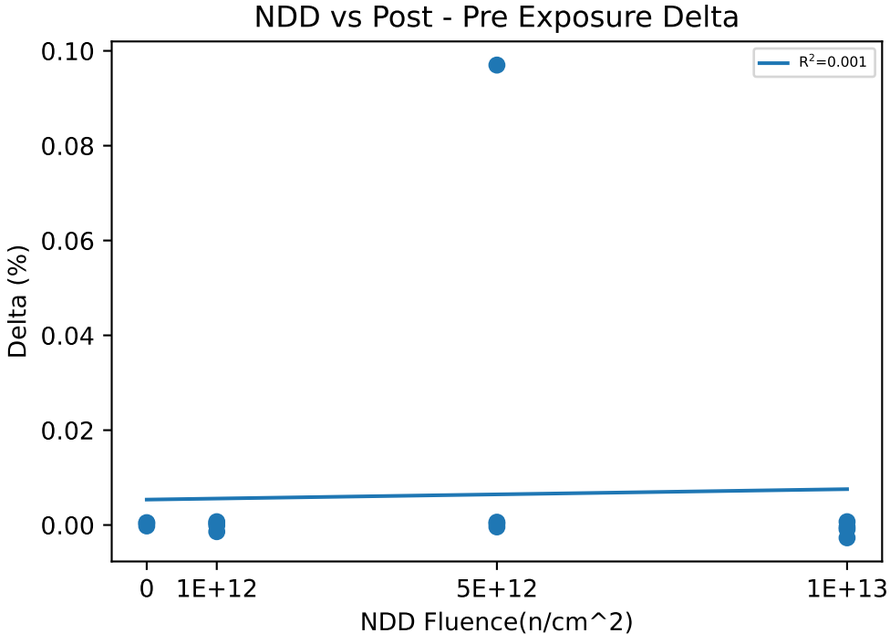
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.5362	1.5194	-0.0168
304	1e+12	NDD Unbiased	1.5103	1.512	0.0017
305	1e+12	NDD Unbiased	1.4769	1.4714	-0.0055
306	1e+12	NDD Unbiased	1.5801	1.5723	-0.0078
307	5e+12	NDD Unbiased	1.5448	1.5494	0.0046
308	5e+12	NDD Unbiased	1.453	1.4583	0.0053
309	5e+12	NDD Unbiased	1.5306	1.5122	-0.0184
310	5e+12	NDD Unbiased	1.5126	1.5181	0.0055
311	1e+13	NDD Unbiased	1.5288	1.5144	-0.0144
312	1e+13	NDD Unbiased	1.5236	1.5148	-0.0088
313	1e+13	NDD Unbiased	1.5702	1.5598	-0.0104
314	1e+13	NDD Unbiased	1.5001	1.4918	-0.0083
315	0	Correlation	1.5192	1.5166	-0.0026
316	0	Correlation	1.5406	1.5265	-0.0141
317	0	Correlation	1.4961	1.4961	0

Test Statistics (mA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.4961	1.5186	1.5406	0.022255	1.4961	1.5131	1.5265	0.015505	-0.0141	-0.0055667	0	0.0075036
1e+12	1.4769	1.5259	1.5801	0.043543	1.4714	1.5188	1.5723	0.041455	-0.0168	-0.0071	0.0017	0.0076285
5e+12	1.453	1.5103	1.5448	0.040377	1.4583	1.5095	1.5494	0.037836	-0.0184	-0.00075	0.0055	0.011773
1e+13	1.5001	1.5307	1.5702	0.029158	1.4918	1.5202	1.5598	0.028505	-0.0144	-0.010475	-0.0083	0.0027657

Device Test: 6.60; VOH_RESET_2MA





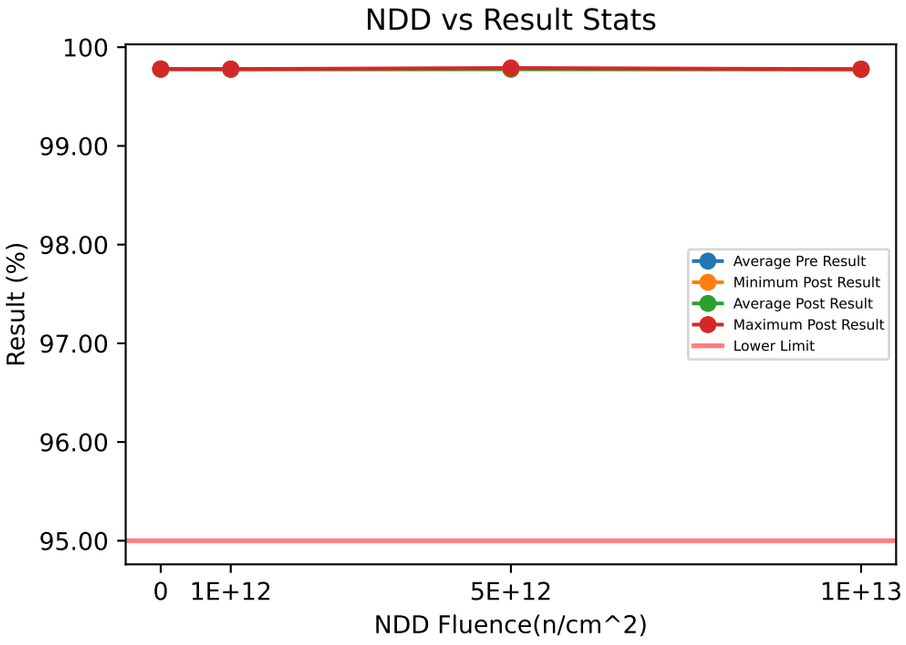
Test Results (Lower Limit = 95.0 (%))

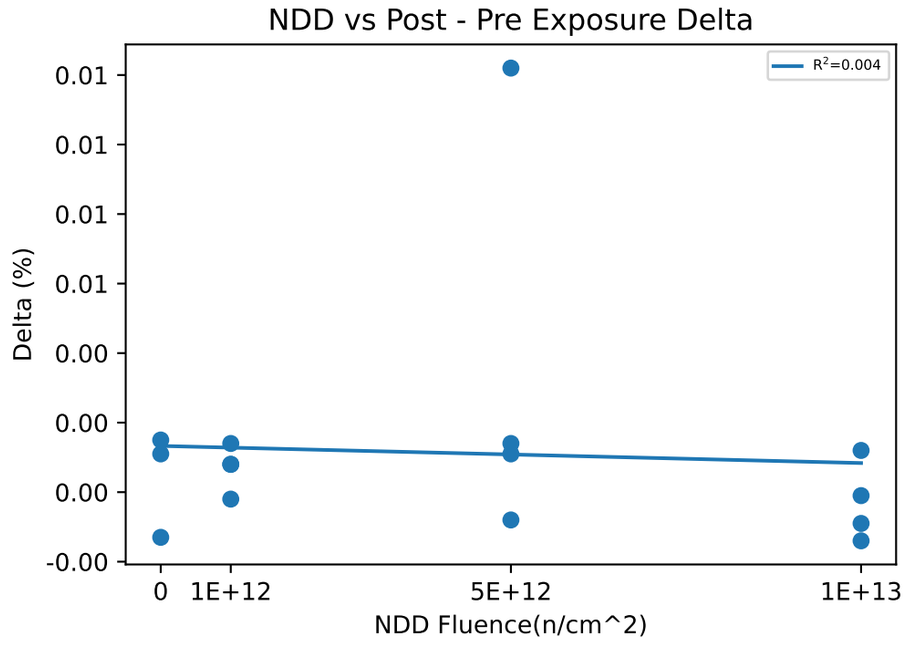
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.772	99.773	0.0004
304	1e+12	NDD Unbiased	99.771	99.771	-0.0001
305	1e+12	NDD Unbiased	99.77	99.77	0.0007
306	1e+12	NDD Unbiased	99.772	99.77	-0.0014
307	5e+12	NDD Unbiased	99.772	99.772	0.0003
308	5e+12	NDD Unbiased	99.77	99.769	-0.0004
309	5e+12	NDD Unbiased	99.773	99.774	0.0006
310	5e+12	NDD Unbiased	99.772	99.869	0.097
311	1e+13	NDD Unbiased	99.77	99.771	0.0007
312	1e+13	NDD Unbiased	99.772	99.772	-0.0004
313	1e+13	NDD Unbiased	99.77	99.768	-0.0027
314	1e+13	NDD Unbiased	99.771	99.77	-0.0009
315	0	Correlation	99.772	99.773	0.0005
316	0	Correlation	99.77	99.77	-0.0002
317	0	Correlation	99.771	99.772	0.0004

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.77	99.771	99.772	0.0011	99.77	99.772	99.773	0.0014572	-0.0002	0.00023333	0.0005	0.00037859
1e+12	99.77	99.771	99.772	0.0011504	99.77	99.771	99.773	0.0011091	-0.0014	-0.0001	0.0007	0.00092736
5e+12	99.77	99.772	99.773	0.0015086	99.769	99.796	99.869	0.048538	-0.0004	0.024375	0.097	0.048418
1e+13	99.77	99.771	99.772	0.0010344	99.768	99.77	99.772	0.0018154	-0.0027	-0.000825	0.0007	0.0014175

Device Test: 6.61; VOH_RESET_2MA





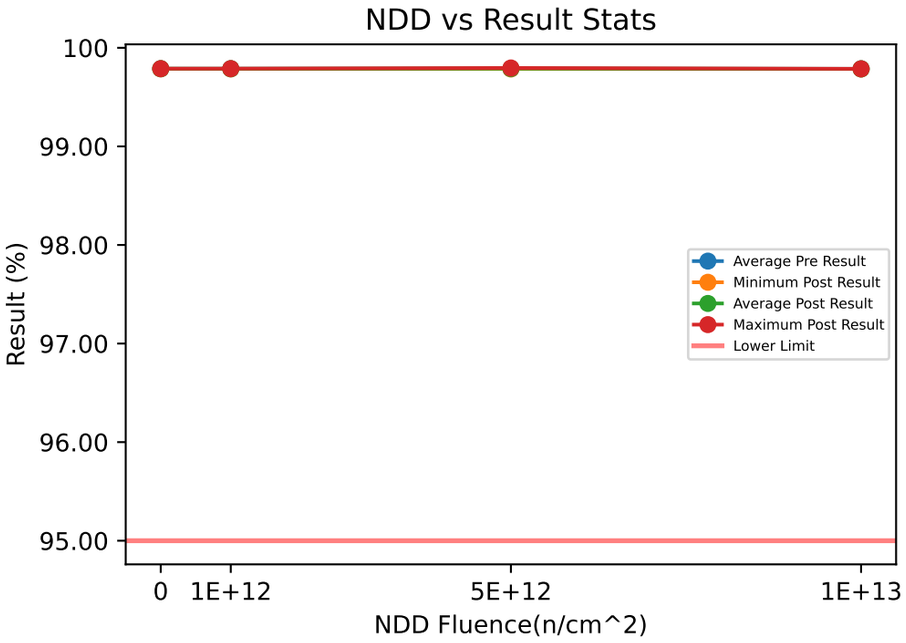
Test Results (Lower Limit = 95.0 (%))

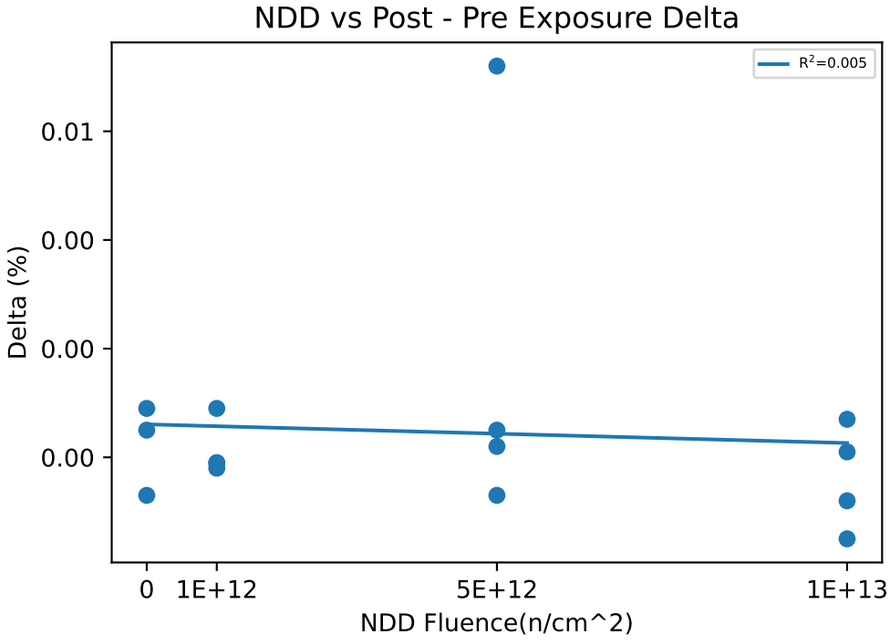
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.777	99.778	0.0008
304	1e+12	NDD Unbiased	99.776	99.778	0.0014
305	1e+12	NDD Unbiased	99.776	99.776	-0.0002
306	1e+12	NDD Unbiased	99.778	99.779	0.0008
307	5e+12	NDD Unbiased	99.777	99.779	0.0014
308	5e+12	NDD Unbiased	99.775	99.776	0.0011
309	5e+12	NDD Unbiased	99.779	99.778	-0.0008
310	5e+12	NDD Unbiased	99.777	99.789	0.0122
311	1e+13	NDD Unbiased	99.776	99.778	0.0012
312	1e+13	NDD Unbiased	99.778	99.777	-0.0009
313	1e+13	NDD Unbiased	99.777	99.775	-0.0014
314	1e+13	NDD Unbiased	99.777	99.777	-0.0001
315	0	Correlation	99.778	99.779	0.0015
316	0	Correlation	99.777	99.778	0.0011
317	0	Correlation	99.778	99.777	-0.0013

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.777	99.778	99.778	0.00060277	99.777	99.778	99.779	0.0011504	-0.0013	0.00043333	0.0015	0.0015144
1e+12	99.776	99.777	99.778	0.00075884	99.776	99.777	99.779	0.0010813	-0.0002	0.0007	0.0014	0.00066332
5e+12	99.775	99.777	99.779	0.0013549	99.776	99.781	99.789	0.0059696	-0.0008	0.003475	0.0122	0.0058977
1e+13	99.776	99.777	99.778	0.0007746	99.775	99.777	99.778	0.00097639	-0.0014	-0.0003	0.0012	0.0011343

Device Test: 6.62; VOH_RESET_2MA





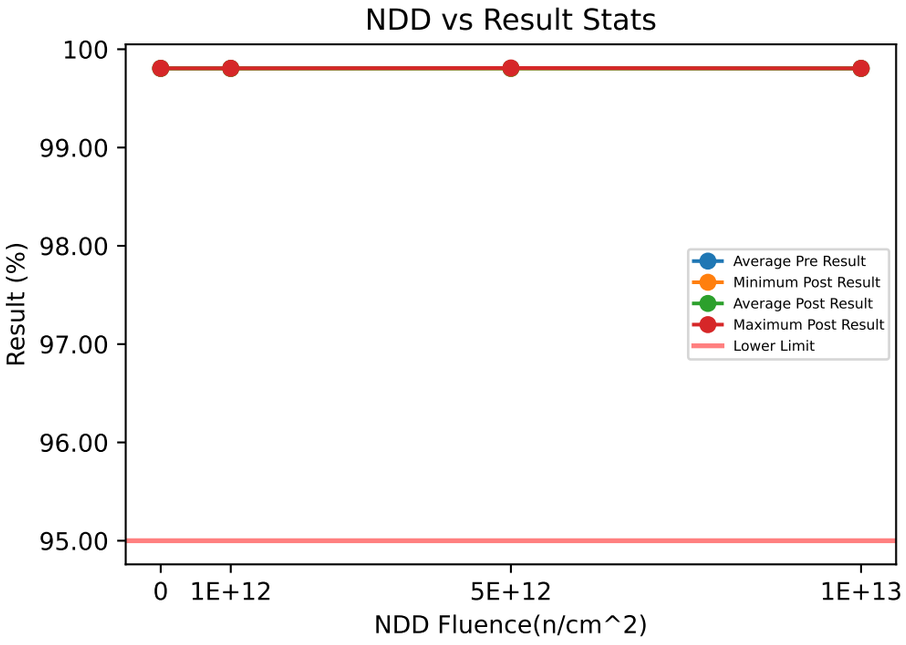
Test Results (Lower Limit = 95.0 (%))

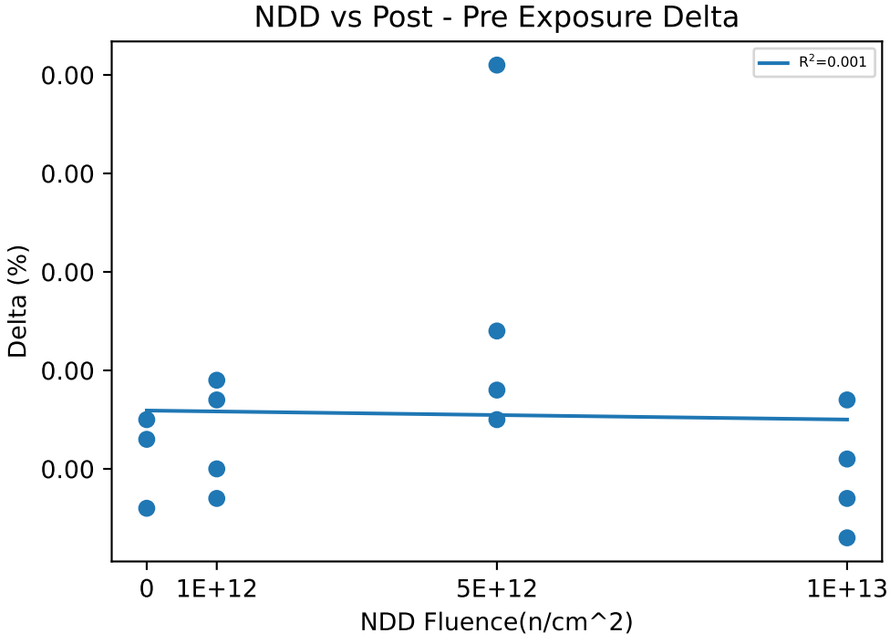
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.788	99.789	0.0009
304	1e+12	NDD Unbiased	99.787	99.787	-0.0001
305	1e+12	NDD Unbiased	99.786	99.786	-0.0002
306	1e+12	NDD Unbiased	99.788	99.788	-0.0001
307	5e+12	NDD Unbiased	99.787	99.788	0.0002
308	5e+12	NDD Unbiased	99.786	99.785	-0.0007
309	5e+12	NDD Unbiased	99.788	99.789	0.0005
310	5e+12	NDD Unbiased	99.788	99.795	0.0072
311	1e+13	NDD Unbiased	99.786	99.786	0.0007
312	1e+13	NDD Unbiased	99.788	99.787	-0.0008
313	1e+13	NDD Unbiased	99.786	99.786	0.0001
314	1e+13	NDD Unbiased	99.787	99.785	-0.0015
315	0	Correlation	99.788	99.789	0.0009
316	0	Correlation	99.787	99.787	-0.0007
317	0	Correlation	99.787	99.788	0.0005

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.787	99.788	99.788	0.00015275	99.787	99.788	99.789	0.00097125	-0.0007	0.00023333	0.0009	0.00083267
1e+12	99.786	99.787	99.788	0.00073937	99.786	99.787	99.789	0.0011587	-0.0002	0.000125	0.0009	0.00051881
5e+12	99.786	99.788	99.788	0.0010275	99.785	99.789	99.795	0.0042664	-0.0007	0.0018	0.0072	0.0036359
1e+13	99.786	99.787	99.788	0.00088835	99.785	99.786	99.787	0.00059722	-0.0015	-0.000375	0.0007	0.00097082

Device Test: 6.63; VOH_RESET_2MA





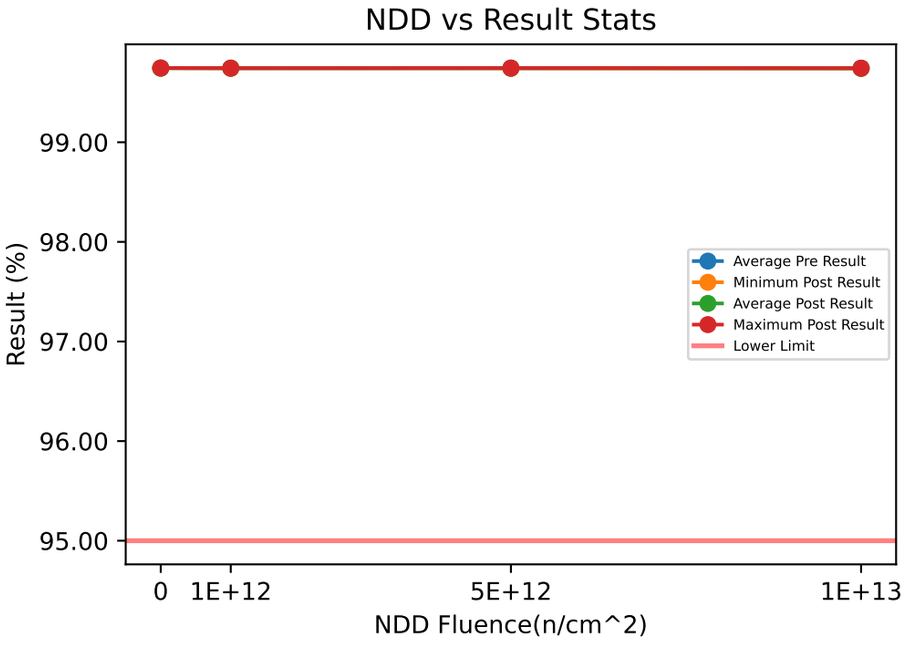
Test Results (Lower Limit = 95.0 (%))

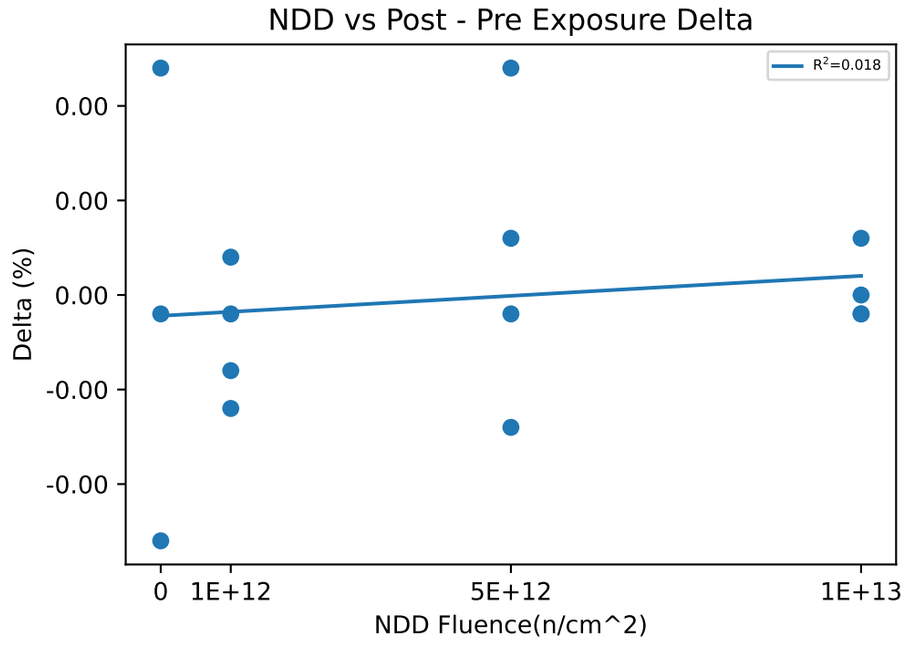
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.806	99.807	0.0009
304	1e+12	NDD Unbiased	99.805	99.805	-0.0003
305	1e+12	NDD Unbiased	99.804	99.804	0
306	1e+12	NDD Unbiased	99.805	99.805	0.0007
307	5e+12	NDD Unbiased	99.805	99.806	0.0014
308	5e+12	NDD Unbiased	99.803	99.804	0.0008
309	5e+12	NDD Unbiased	99.806	99.806	0.0005
310	5e+12	NDD Unbiased	99.805	99.809	0.0041
311	1e+13	NDD Unbiased	99.805	99.805	0.0001
312	1e+13	NDD Unbiased	99.805	99.805	-0.0007
313	1e+13	NDD Unbiased	99.805	99.805	-0.0003
314	1e+13	NDD Unbiased	99.805	99.806	0.0007
315	0	Correlation	99.806	99.806	0.0003
316	0	Correlation	99.804	99.805	0.0005
317	0	Correlation	99.806	99.805	-0.0004

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.804	99.805	99.806	0.00085049	99.805	99.805	99.806	0.00072111	-0.0004	0.00013333	0.0005	0.00047258
1e+12	99.804	99.805	99.806	0.0007932	99.804	99.805	99.807	0.0011106	-0.0003	0.000325	0.0009	0.00056789
5e+12	99.803	99.805	99.806	0.0012093	99.804	99.807	99.809	0.00225	0.0005	0.0017	0.0041	0.0016432
1e+13	99.805	99.805	99.805	0.00023094	99.805	99.805	99.806	0.00066081	-0.0007	-5e-05	0.0007	0.00059722

Device Test: 6.64; VOH_WDO_2MA





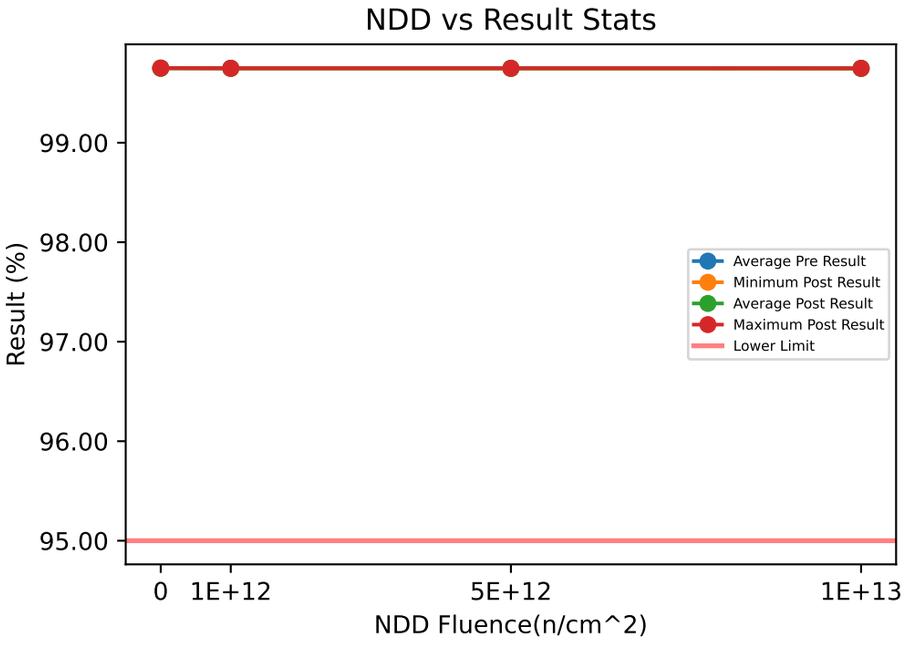
Test Results (Lower Limit = 95.0 (%))

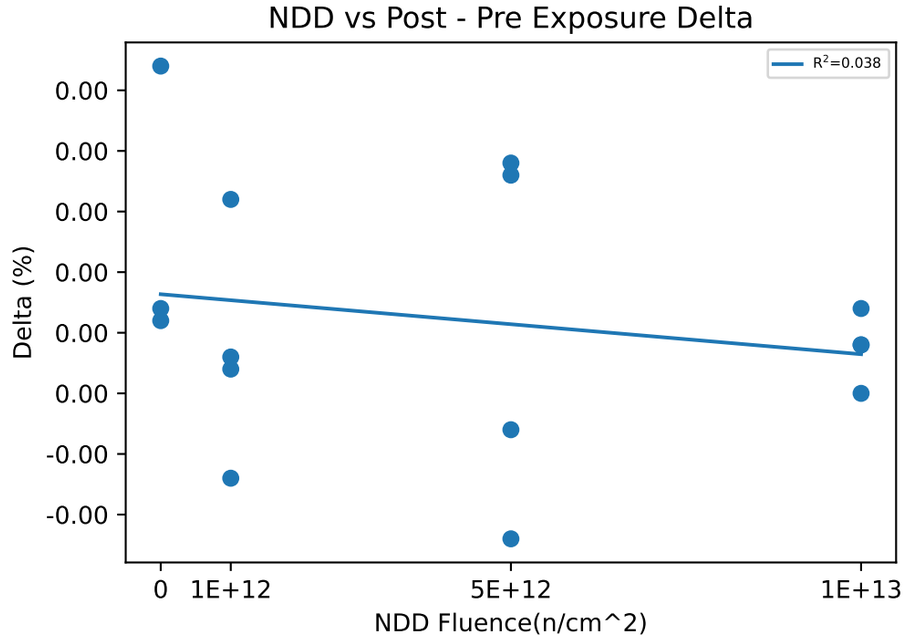
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.744	99.744	-0.0004
304	1e+12	NDD Unbiased	99.744	99.744	-0.0001
305	1e+12	NDD Unbiased	99.744	99.743	-0.0006
306	1e+12	NDD Unbiased	99.743	99.743	0.0002
307	5e+12	NDD Unbiased	99.743	99.744	0.0012
308	5e+12	NDD Unbiased	99.743	99.742	-0.0001
309	5e+12	NDD Unbiased	99.745	99.745	-0.0007
310	5e+12	NDD Unbiased	99.743	99.744	0.0003
311	1e+13	NDD Unbiased	99.743	99.744	0.0003
312	1e+13	NDD Unbiased	99.744	99.743	-0.0001
313	1e+13	NDD Unbiased	99.741	99.741	0
314	1e+13	NDD Unbiased	99.743	99.743	-0.0001
315	0	Correlation	99.744	99.746	0.0012
316	0	Correlation	99.744	99.744	-0.0001
317	0	Correlation	99.745	99.743	-0.0013

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.744	99.744	99.745	0.0004	99.743	99.744	99.746	0.001115	-0.0013	-6.6667e-05	0.0012	0.0012503
1e+12	99.743	99.744	99.744	0.00053774	99.743	99.744	99.744	0.00033166	-0.0006	-0.000225	0.0002	0.00035
5e+12	99.743	99.744	99.745	0.0012633	99.742	99.744	99.745	0.0010083	-0.0007	0.000175	0.0012	0.00079739
1e+13	99.741	99.743	99.744	0.0010532	99.741	99.743	99.744	0.0010739	-0.0001	2.5e-05	0.0003	0.0001893

Device Test: 6.65; VOH_PWRGD_2MA





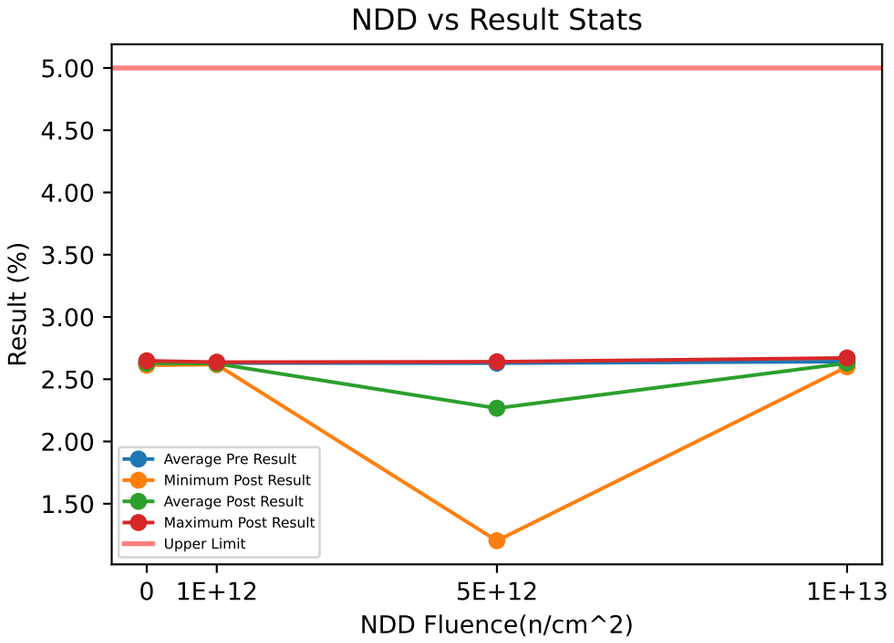
Test Results (Lower Limit = 95.0 (%))

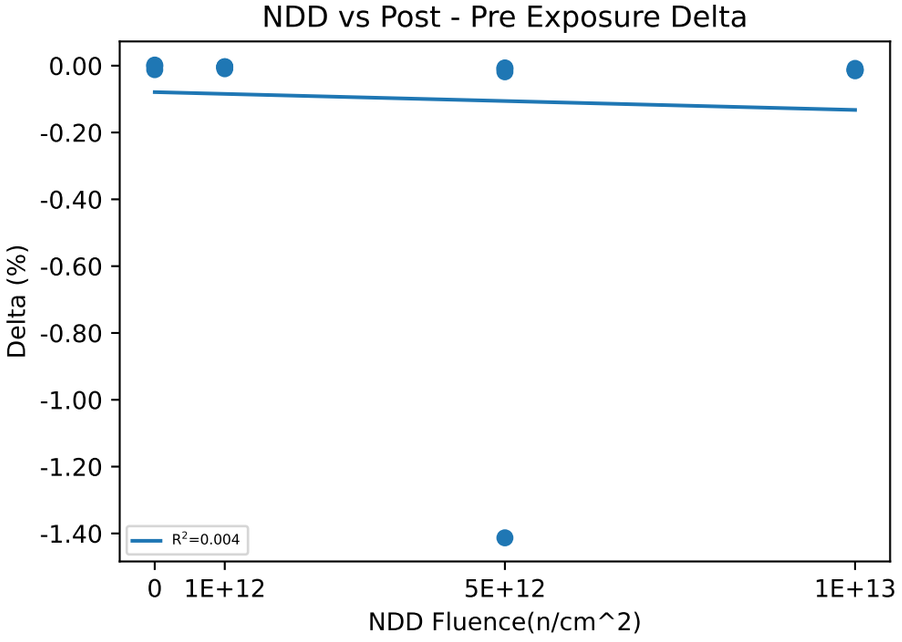
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.749	99.749	0.0002
304	1e+12	NDD Unbiased	99.748	99.748	0.0003
305	1e+12	NDD Unbiased	99.746	99.748	0.0016
306	1e+12	NDD Unbiased	99.747	99.747	-0.0007
307	5e+12	NDD Unbiased	99.747	99.748	0.0018
308	5e+12	NDD Unbiased	99.747	99.746	-0.0012
309	5e+12	NDD Unbiased	99.748	99.747	-0.0003
310	5e+12	NDD Unbiased	99.747	99.749	0.0019
311	1e+13	NDD Unbiased	99.747	99.748	0.0007
312	1e+13	NDD Unbiased	99.748	99.748	0.0004
313	1e+13	NDD Unbiased	99.746	99.746	0
314	1e+13	NDD Unbiased	99.748	99.748	0.0004
315	0	Correlation	99.749	99.751	0.0027
316	0	Correlation	99.748	99.748	0.0007
317	0	Correlation	99.747	99.748	0.0006

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.747	99.748	99.749	0.00066583	99.748	99.749	99.751	0.0018358	0.0006	0.0013333	0.0027	0.0011846
1e+12	99.746	99.747	99.749	0.00098107	99.747	99.748	99.749	0.00085781	-0.0007	0.00035	0.0016	0.00094692
5e+12	99.747	99.747	99.748	0.0003873	99.746	99.748	99.749	0.0012649	-0.0012	0.00055	0.0019	0.001546
1e+13	99.746	99.747	99.748	0.00097425	99.746	99.747	99.748	0.0011846	0	0.000375	0.0007	0.00028723

Device Test: 6.66; VOL_RESET_2MA





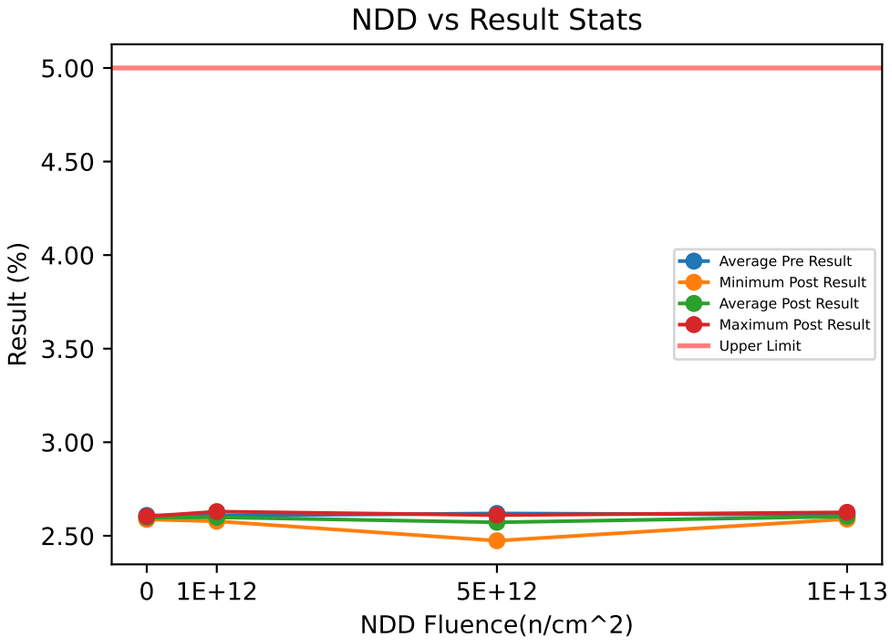
Test Results (Upper Limit = 5.0 (%))

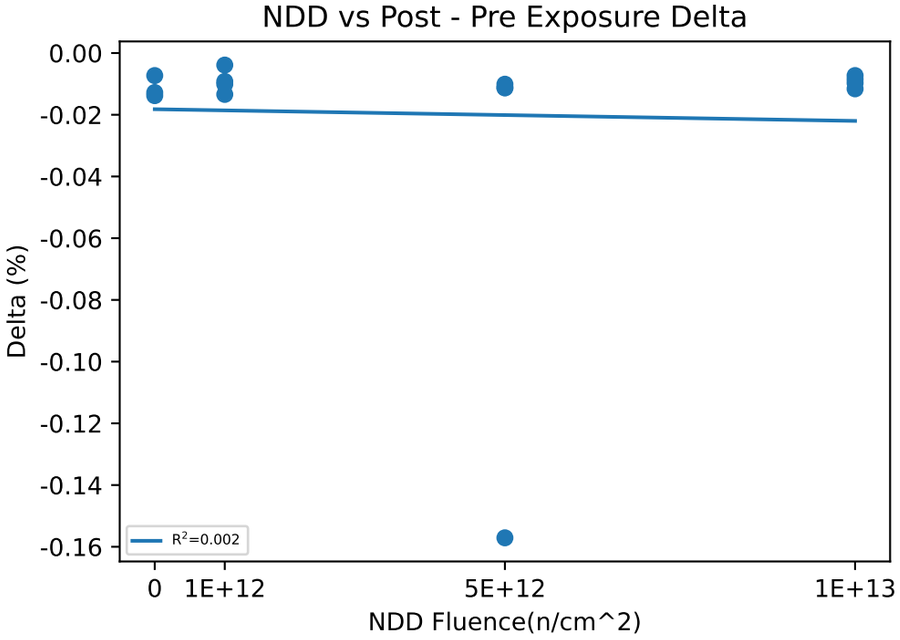
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.6283	2.6191	-0.0092
304	1e+12	NDD Unbiased	2.6301	2.6267	-0.0034
305	1e+12	NDD Unbiased	2.6405	2.6371	-0.0034
306	1e+12	NDD Unbiased	2.6213	2.6176	-0.0037
307	5e+12	NDD Unbiased	2.6335	2.6152	-0.0183
308	5e+12	NDD Unbiased	2.6499	2.6402	-0.0097
309	5e+12	NDD Unbiased	2.6164	2.6097	-0.0067
310	5e+12	NDD Unbiased	2.6158	1.2027	-1.4131
311	1e+13	NDD Unbiased	2.6411	2.6258	-0.0153
312	1e+13	NDD Unbiased	2.6081	2.5999	-0.0082
313	1e+13	NDD Unbiased	2.6835	2.6707	-0.0128
314	1e+13	NDD Unbiased	2.6331	2.62	-0.0131
315	0	Correlation	2.6133	2.6121	-0.0012
316	0	Correlation	2.6597	2.6478	-0.0119
317	0	Correlation	2.624	2.6258	0.0018

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6133	2.6323	2.6597	0.024297	2.6121	2.6286	2.6478	0.01801	-0.0119	-0.0037667	0.0018	0.0072016
1e+12	2.6213	2.63	2.6405	0.0079337	2.6176	2.6251	2.6371	0.008922	-0.0092	-0.004925	-0.0034	0.0028535
5e+12	2.6158	2.6289	2.6499	0.016228	1.2027	2.267	2.6402	0.70962	-1.4131	-0.36195	-0.0067	0.70078
1e+13	2.6081	2.6414	2.6835	0.03136	2.5999	2.6291	2.6707	0.029871	-0.0153	-0.01235	-0.0082	0.0029827

Device Test: 6.67; VOL_RESET_2MA





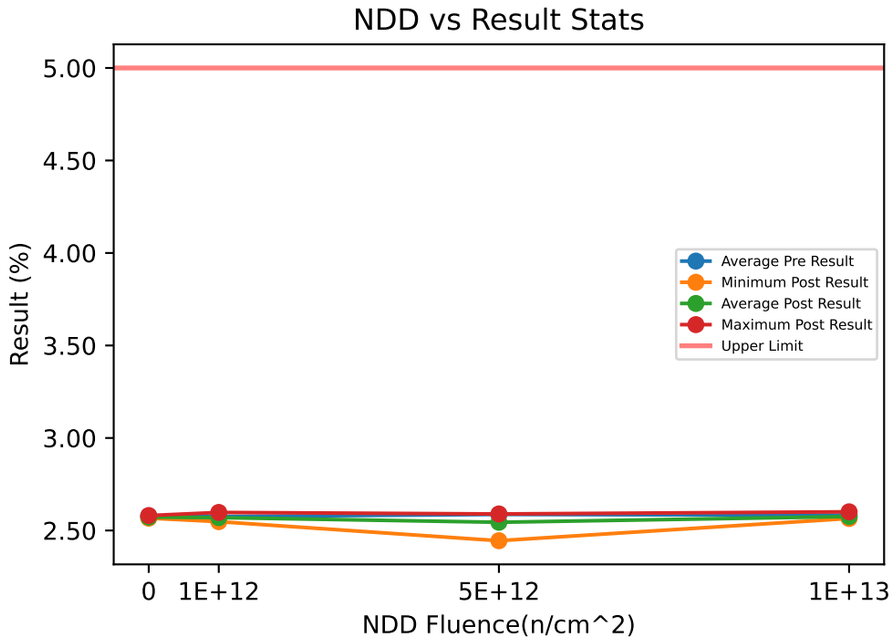
Test Results (Upper Limit = 5.0 (%))

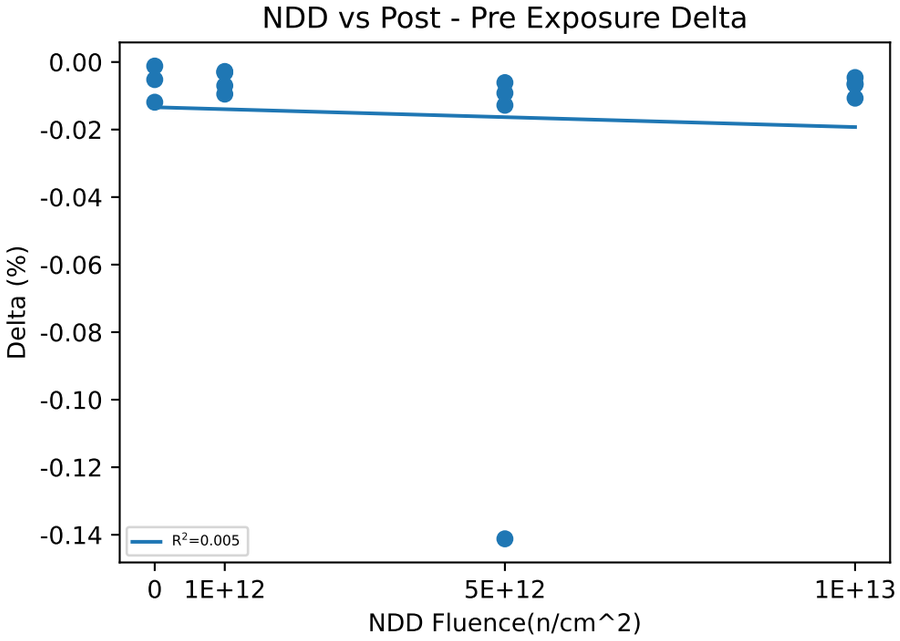
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.5815	2.5776	-0.0039
304	1e+12	NDD Unbiased	2.6105	2.5971	-0.0134
305	1e+12	NDD Unbiased	2.6008	2.5907	-0.0101
306	1e+12	NDD Unbiased	2.6383	2.6291	-0.0092
307	5e+12	NDD Unbiased	2.612	2.6008	-0.0112
308	5e+12	NDD Unbiased	2.6142	2.6029	-0.0113
309	5e+12	NDD Unbiased	2.6206	2.6105	-0.0101
310	5e+12	NDD Unbiased	2.6307	2.4736	-0.1571
311	1e+13	NDD Unbiased	2.609	2.5974	-0.0116
312	1e+13	NDD Unbiased	2.5977	2.5892	-0.0085
313	1e+13	NDD Unbiased	2.6325	2.6252	-0.0073
314	1e+13	NDD Unbiased	2.6102	2.6005	-0.0097
315	0	Correlation	2.6011	2.5873	-0.0138
316	0	Correlation	2.6142	2.6014	-0.0128
317	0	Correlation	2.6108	2.6035	-0.0073

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6011	2.6087	2.6142	0.0067978	2.5873	2.5974	2.6035	0.0088097	-0.0138	-0.0113	-0.0073	0.0035
1e+12	2.5815	2.6078	2.6383	0.023652	2.5776	2.5986	2.6291	0.021878	-0.0134	-0.00915	-0.0039	0.0039383
5e+12	2.612	2.6194	2.6307	0.0083851	2.4736	2.572	2.6105	0.065699	-0.1571	-0.047425	-0.0101	0.073119
1e+13	2.5977	2.6124	2.6325	0.014566	2.5892	2.6031	2.6252	0.015501	-0.0116	-0.009275	-0.0073	0.0018337

Device Test: 6.68; VOL_RESET_2MA





Test Results (Upper Limit = 5.0 (%))

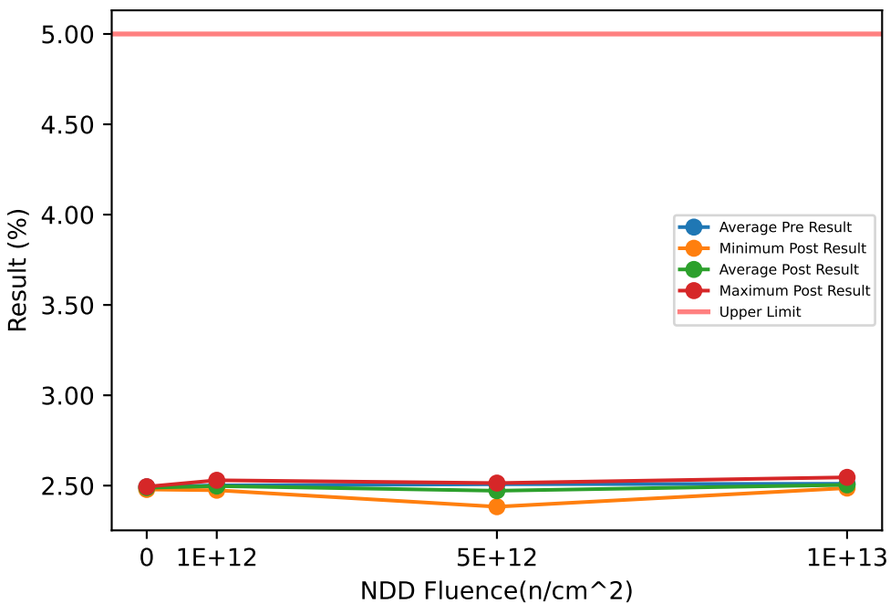
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.5573	2.5478	-0.0095
304	1e+12	NDD Unbiased	2.5661	2.5591	-0.007
305	1e+12	NDD Unbiased	2.5768	2.5737	-0.0031
306	1e+12	NDD Unbiased	2.6003	2.5975	-0.0028
307	5e+12	NDD Unbiased	2.5813	2.5685	-0.0128
308	5e+12	NDD Unbiased	2.5844	2.5752	-0.0092
309	5e+12	NDD Unbiased	2.5954	2.5893	-0.0061
310	5e+12	NDD Unbiased	2.5859	2.4447	-0.1412
311	1e+13	NDD Unbiased	2.5783	2.5676	-0.0107
312	1e+13	NDD Unbiased	2.5722	2.5676	-0.0046
313	1e+13	NDD Unbiased	2.6073	2.6009	-0.0064
314	1e+13	NDD Unbiased	2.5716	2.5649	-0.0067
315	0	Correlation	2.5817	2.5698	-0.0119
316	0	Correlation	2.5859	2.5807	-0.0052
317	0	Correlation	2.5679	2.5667	-0.0012

Test Statistics (%)

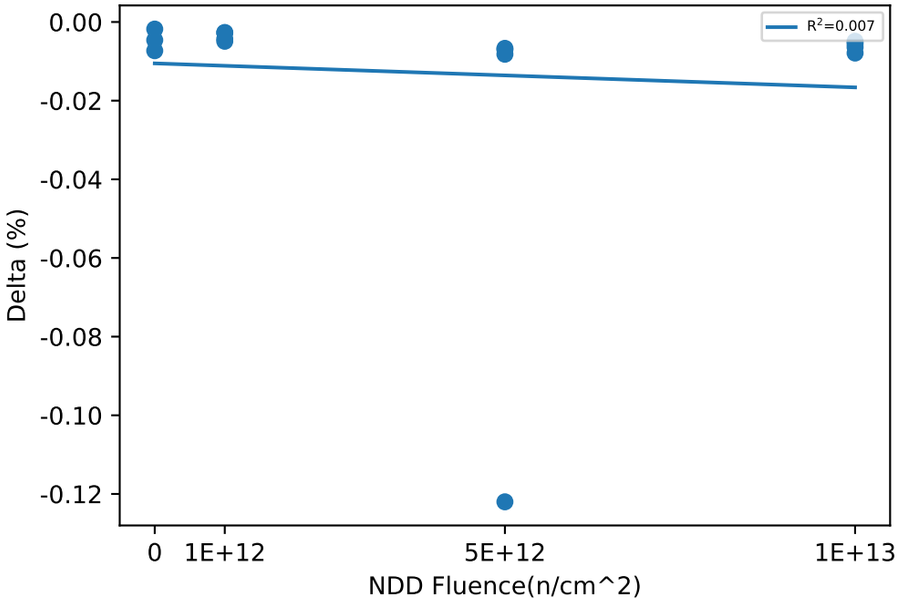
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5679	2.5785	2.5859	0.009417	2.5667	2.5724	2.5807	0.0073532	-0.0119	-0.0061	-0.0012	0.0054065
1e+12	2.5573	2.5751	2.6003	0.018581	2.5478	2.5695	2.5975	0.021453	-0.0095	-0.0056	-0.0028	0.003228
5e+12	2.5813	2.5868	2.5954	0.0060765	2.4447	2.5444	2.5893	0.067046	-0.1412	-0.042325	-0.0061	0.065973
1e+13	2.5716	2.5823	2.6073	0.016907	2.5649	2.5753	2.6009	0.017147	-0.0107	-0.0071	-0.0046	0.0025729

Device Test: 6.69; VOL_RESET_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (%))

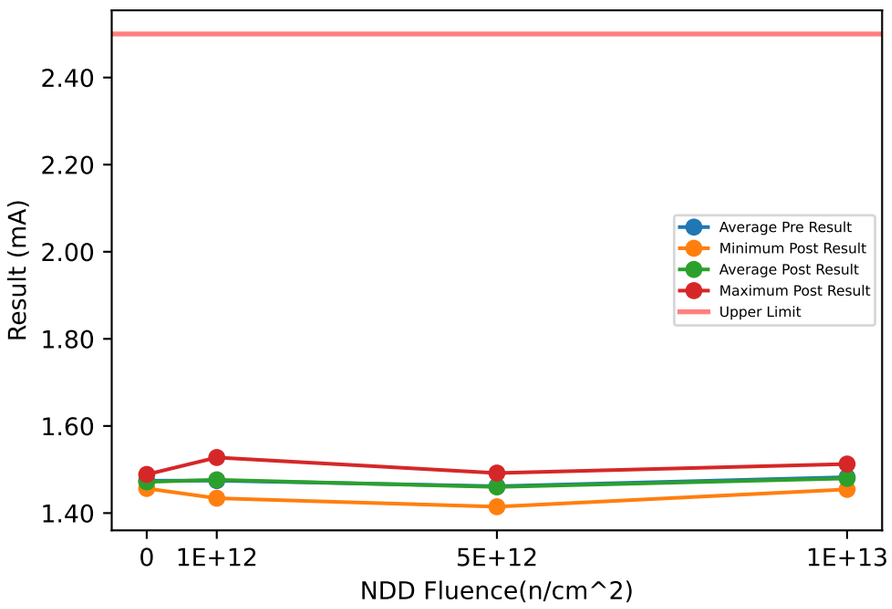
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.4786	2.4743	-0.0043
304	1e+12	NDD Unbiased	2.499	2.4963	-0.0027
305	1e+12	NDD Unbiased	2.4923	2.4896	-0.0027
306	1e+12	NDD Unbiased	2.5344	2.5295	-0.0049
307	5e+12	NDD Unbiased	2.5054	2.4972	-0.0082
308	5e+12	NDD Unbiased	2.4987	2.492	-0.0067
309	5e+12	NDD Unbiased	2.521	2.514	-0.007
310	5e+12	NDD Unbiased	2.5051	2.3831	-0.122
311	1e+13	NDD Unbiased	2.4941	2.4862	-0.0079
312	1e+13	NDD Unbiased	2.5027	2.4963	-0.0064
313	1e+13	NDD Unbiased	2.5506	2.5457	-0.0049
314	1e+13	NDD Unbiased	2.4935	2.488	-0.0055
315	0	Correlation	2.4999	2.4926	-0.0073
316	0	Correlation	2.4987	2.4941	-0.0046
317	0	Correlation	2.4804	2.4786	-0.0018

Test Statistics (%)

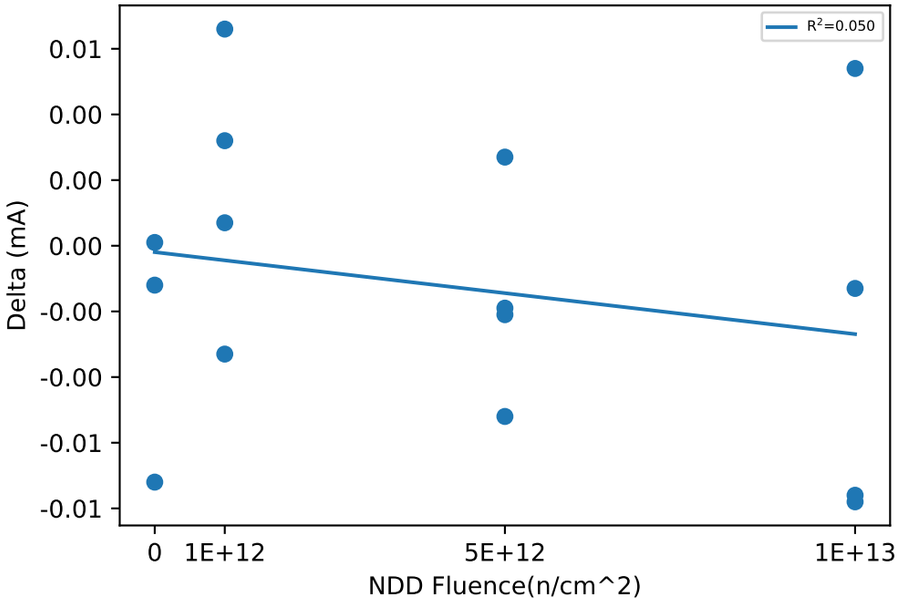
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.4804	2.493	2.4999	0.010928	2.4786	2.4884	2.4941	0.0085489	-0.0073	-0.0045667	-0.0018	0.0027502
1e+12	2.4786	2.5011	2.5344	0.023784	2.4743	2.4974	2.5295	0.023281	-0.0049	-0.00365	-0.0027	0.001124
5e+12	2.4987	2.5076	2.521	0.0094842	2.3831	2.4716	2.514	0.059726	-0.122	-0.035975	-0.0067	0.057354
1e+13	2.4935	2.5102	2.5506	0.027243	2.4862	2.5041	2.5457	0.028113	-0.0079	-0.006175	-0.0049	0.0013048

Device Test: 6.7; IQ

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.5 (mA))

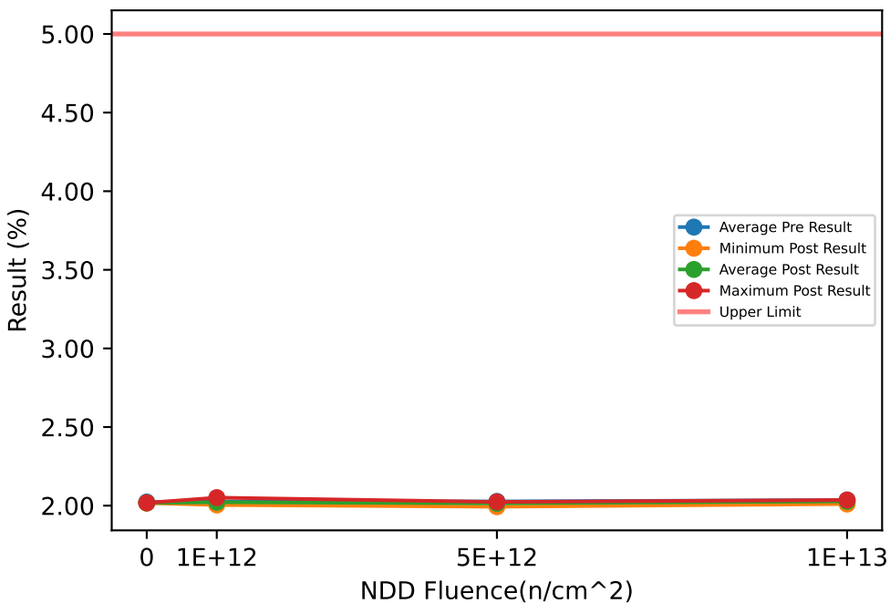
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.4849	1.4816	-0.0033
304	1e+12	NDD Unbiased	1.4589	1.4621	0.0032
305	1e+12	NDD Unbiased	1.4275	1.4341	0.0066
306	1e+12	NDD Unbiased	1.5269	1.5276	0.0007
307	5e+12	NDD Unbiased	1.4892	1.4919	0.0027
308	5e+12	NDD Unbiased	1.4167	1.4146	-0.0021
309	5e+12	NDD Unbiased	1.4768	1.4716	-0.0052
310	5e+12	NDD Unbiased	1.4637	1.4618	-0.0019
311	1e+13	NDD Unbiased	1.483	1.4752	-0.0078
312	1e+13	NDD Unbiased	1.4706	1.476	0.0054
313	1e+13	NDD Unbiased	1.5139	1.5126	-0.0013
314	1e+13	NDD Unbiased	1.462	1.4544	-0.0076
315	0	Correlation	1.4695	1.4696	0.0001
316	0	Correlation	1.4899	1.4887	-0.0012
317	0	Correlation	1.4637	1.4565	-0.0072

Test Statistics (mA)

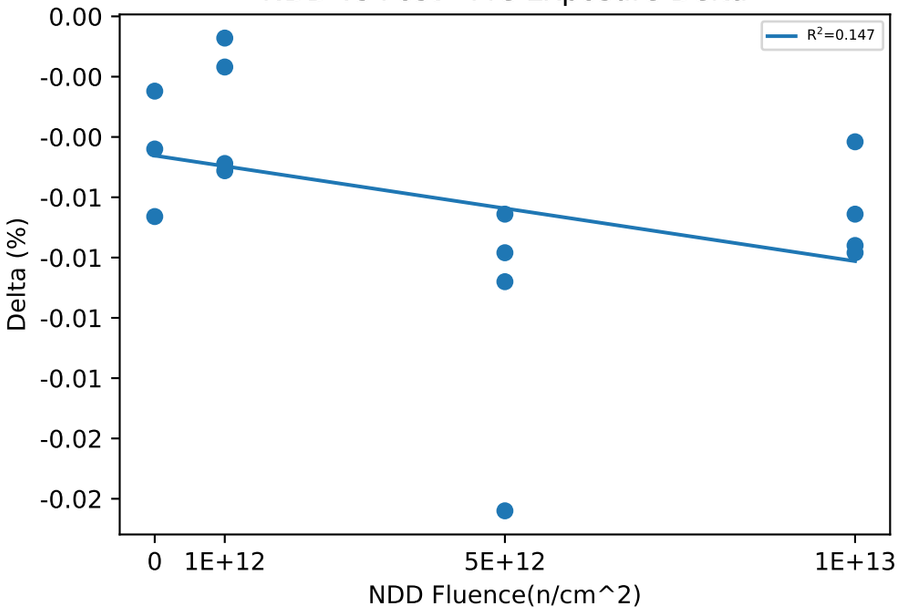
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.4637	1.4744	1.4899	0.013761	1.4565	1.4716	1.4887	0.016193	-0.0072	-0.0027667	0.0001	0.003894
1e+12	1.4275	1.4746	1.5269	0.042057	1.4341	1.4764	1.5276	0.039337	-0.0033	0.0018	0.0066	0.0041721
5e+12	1.4167	1.4616	1.4892	0.031692	1.4146	1.46	1.4919	0.032744	-0.0052	-0.001625	0.0027	0.0032551
1e+13	1.462	1.4824	1.5139	0.022716	1.4544	1.4795	1.5126	0.024196	-0.0078	-0.002825	0.0054	0.0062591

Device Test: 6.70; VOL_WDO_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



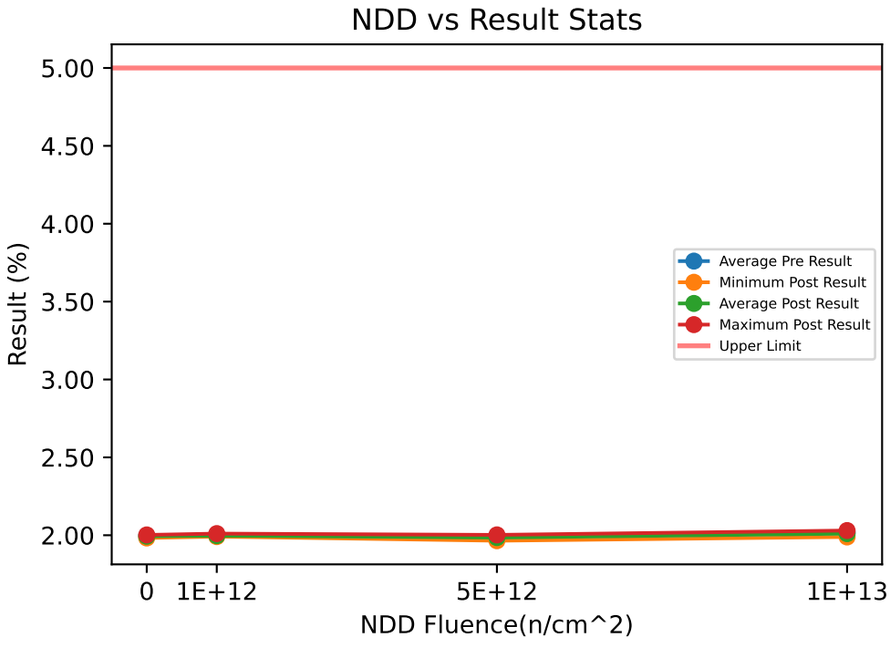
Test Results (Upper Limit = 5.0 (%))

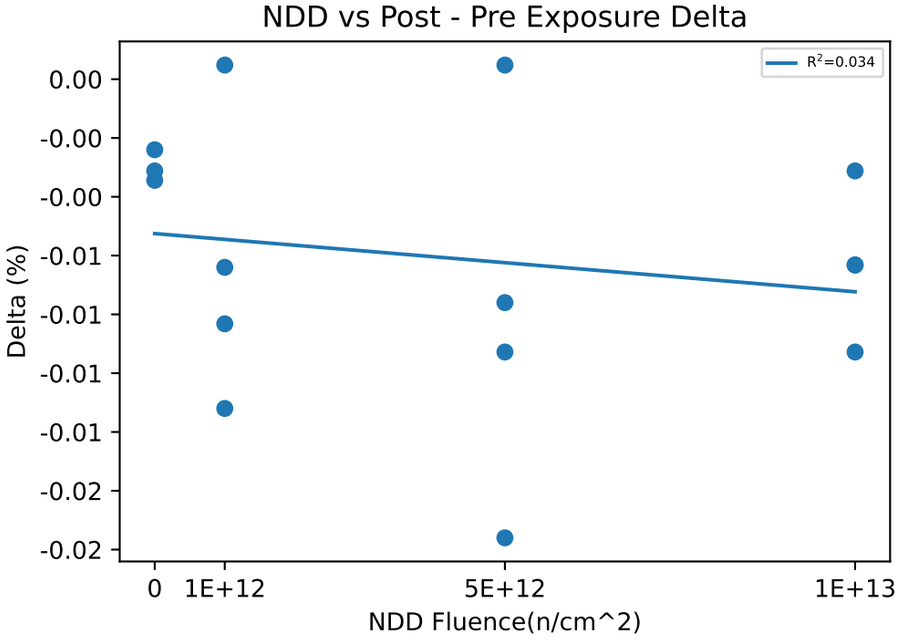
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.0103	2.0042	-0.0061
304	1e+12	NDD Unbiased	2.0106	2.0085	-0.0021
305	1e+12	NDD Unbiased	2.0301	2.0237	-0.0064
306	1e+12	NDD Unbiased	2.0518	2.0509	-0.0009
307	5e+12	NDD Unbiased	2.0347	2.0237	-0.011
308	5e+12	NDD Unbiased	2.0286	2.0188	-0.0098
309	5e+12	NDD Unbiased	2.0304	2.0222	-0.0082
310	5e+12	NDD Unbiased	2.0137	1.9932	-0.0205
311	1e+13	NDD Unbiased	2.0201	2.0103	-0.0098
312	1e+13	NDD Unbiased	2.0359	2.0307	-0.0052
313	1e+13	NDD Unbiased	2.0454	2.0359	-0.0095
314	1e+13	NDD Unbiased	2.0405	2.0323	-0.0082
315	0	Correlation	2.0228	2.0173	-0.0055
316	0	Correlation	2.0262	2.0179	-0.0083
317	0	Correlation	2.0198	2.0167	-0.0031

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.0198	2.0229	2.0262	0.0032021	2.0167	2.0173	2.0179	0.0006	-0.0083	-0.0056333	-0.0031	0.0026026
1e+12	2.0103	2.0257	2.0518	0.019712	2.0042	2.0218	2.0509	0.021111	-0.0064	-0.003875	-0.0009	0.0027885
5e+12	2.0137	2.0269	2.0347	0.0091325	1.9932	2.0145	2.0237	0.014331	-0.0205	-0.012375	-0.0082	0.0055368
1e+13	2.0201	2.0355	2.0454	0.010959	2.0103	2.0273	2.0359	0.01154	-0.0098	-0.008175	-0.0052	0.0021014

Device Test: 6.71; VOL_PWRGD_2MA





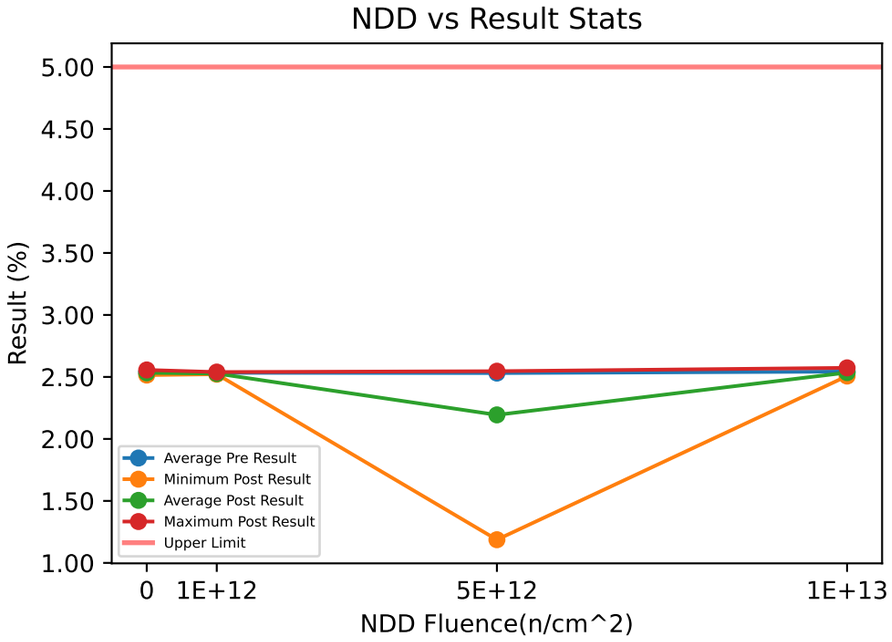
Test Results (Upper Limit = 5.0 (%))

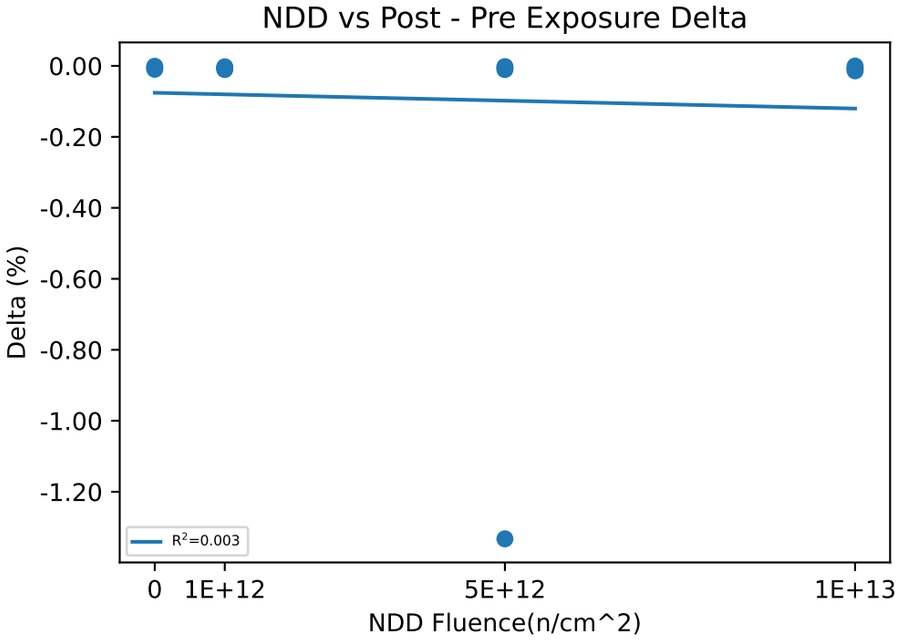
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.002	1.9916	-0.0104
304	1e+12	NDD Unbiased	2.0053	1.9913	-0.014
305	1e+12	NDD Unbiased	1.9944	1.995	0.0006
306	1e+12	NDD Unbiased	2.0185	2.0105	-0.008
307	5e+12	NDD Unbiased	2.0005	1.991	-0.0095
308	5e+12	NDD Unbiased	2.0017	2.0023	0.0006
309	5e+12	NDD Unbiased	1.9931	1.9815	-0.0116
310	5e+12	NDD Unbiased	1.9843	1.9648	-0.0195
311	1e+13	NDD Unbiased	2.0081	1.9965	-0.0116
312	1e+13	NDD Unbiased	1.9968	1.9889	-0.0079
313	1e+13	NDD Unbiased	2.0331	2.0252	-0.0079
314	1e+13	NDD Unbiased	2.034	2.0301	-0.0039
315	0	Correlation	1.9864	1.9825	-0.0039
316	0	Correlation	2.0063	2.002	-0.0043
317	0	Correlation	1.9995	1.9965	-0.003

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9864	1.9974	2.0063	0.010115	1.9825	1.9937	2.002	0.010054	-0.0043	-0.0037333	-0.003	0.00066583
1e+12	1.9944	2.005	2.0185	0.010061	1.9913	1.9971	2.0105	0.0090896	-0.014	-0.00795	0.0006	0.0062105
5e+12	1.9843	1.9949	2.0017	0.008025	1.9648	1.9849	2.0023	0.01587	-0.0195	-0.01	0.0006	0.0082749
1e+13	1.9968	2.018	2.034	0.018542	1.9889	2.0102	2.0301	0.020513	-0.0116	-0.007825	-0.0039	0.0031447

Device Test: 6.72; VOL_RESET_2MA





Test Results (Upper Limit = 5.0 (%))

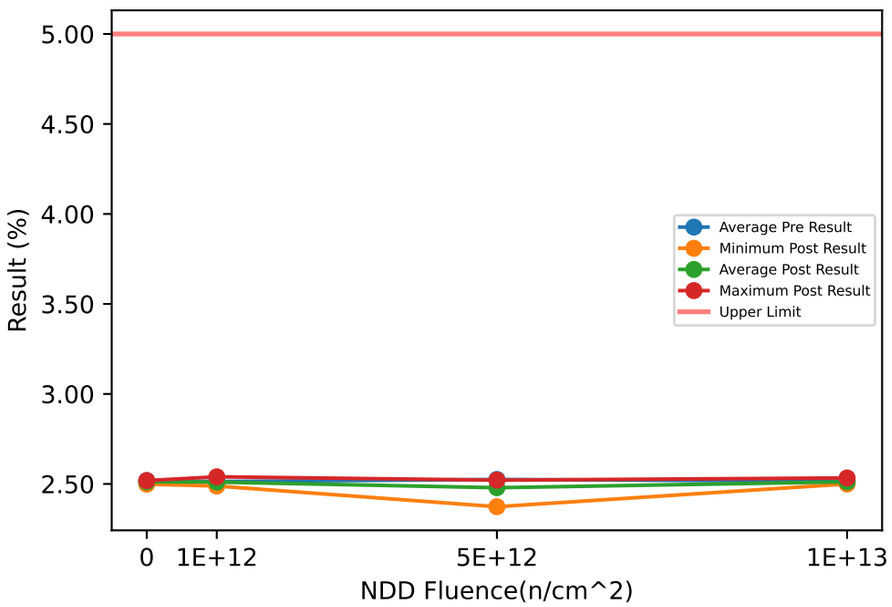
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.5279	2.5252	-0.0027
304	1e+12	NDD Unbiased	2.5322	2.5218	-0.0104
305	1e+12	NDD Unbiased	2.545	2.5392	-0.0058
306	1e+12	NDD Unbiased	2.5282	2.5218	-0.0064
307	5e+12	NDD Unbiased	2.5328	2.5224	-0.0104
308	5e+12	NDD Unbiased	2.5502	2.5462	-0.004
309	5e+12	NDD Unbiased	2.5218	2.5197	-0.0021
310	5e+12	NDD Unbiased	2.5194	1.1869	-1.3325
311	1e+13	NDD Unbiased	2.5404	2.5325	-0.0079
312	1e+13	NDD Unbiased	2.5209	2.5069	-0.014
313	1e+13	NDD Unbiased	2.5828	2.5731	-0.0097
314	1e+13	NDD Unbiased	2.5279	2.5273	-0.0006
315	0	Correlation	2.5243	2.5148	-0.0095
316	0	Correlation	2.5609	2.5563	-0.0046
317	0	Correlation	2.5291	2.5279	-0.0012

Test Statistics (%)

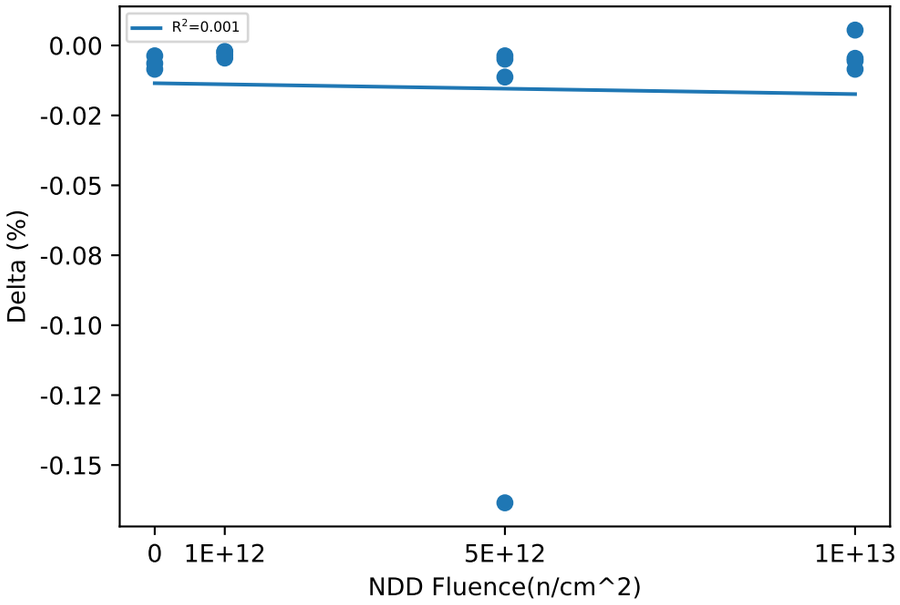
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5243	2.5381	2.5609	0.019891	2.5148	2.533	2.5563	0.021215	-0.0095	-0.0051	-0.0012	0.0041725
1e+12	2.5279	2.5333	2.545	0.0080264	2.5218	2.527	2.5392	0.0082898	-0.0104	-0.006325	-0.0027	0.0031637
5e+12	2.5194	2.5311	2.5502	0.014037	1.1869	2.1938	2.5462	0.67137	-1.3325	-0.33725	-0.0021	0.66351
1e+13	2.5209	2.543	2.5828	0.027732	2.5069	2.535	2.5731	0.027729	-0.014	-0.00805	-0.0006	0.0055872

Device Test: 6.73; VOL_RESET_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



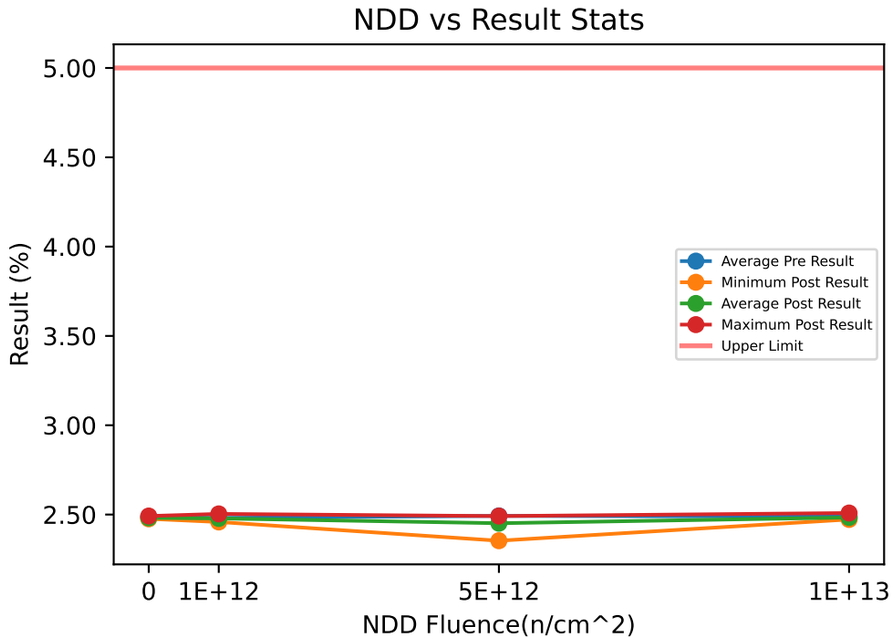
Test Results (Upper Limit = 5.0 (%))

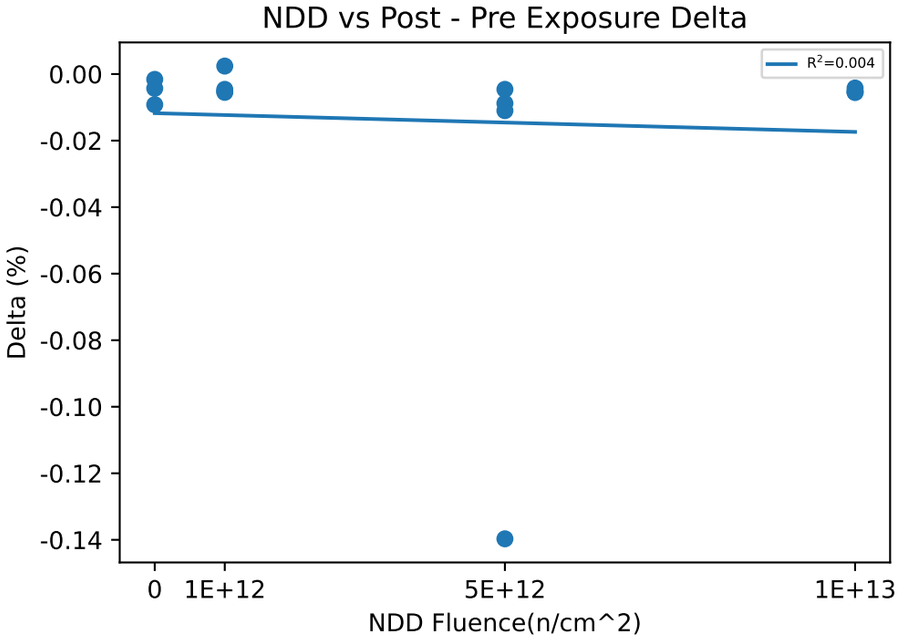
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.4919	2.4885	-0.0034
304	1e+12	NDD Unbiased	2.5108	2.5086	-0.0022
305	1e+12	NDD Unbiased	2.5089	2.5044	-0.0045
306	1e+12	NDD Unbiased	2.5419	2.5397	-0.0022
307	5e+12	NDD Unbiased	2.516	2.5047	-0.0113
308	5e+12	NDD Unbiased	2.5221	2.5172	-0.0049
309	5e+12	NDD Unbiased	2.5248	2.5211	-0.0037
310	5e+12	NDD Unbiased	2.537	2.3735	-0.1635
311	1e+13	NDD Unbiased	2.5083	2.4998	-0.0085
312	1e+13	NDD Unbiased	2.5059	2.5004	-0.0055
313	1e+13	NDD Unbiased	2.5379	2.5333	-0.0046
314	1e+13	NDD Unbiased	2.5077	2.5132	0.0055
315	0	Correlation	2.5074	2.4989	-0.0085
316	0	Correlation	2.5224	2.5187	-0.0037
317	0	Correlation	2.5248	2.5184	-0.0064

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5074	2.5182	2.5248	0.0094297	2.4989	2.512	2.5187	0.011346	-0.0085	-0.0062	-0.0037	0.0024062
1e+12	2.4919	2.5134	2.5419	0.020829	2.4885	2.5103	2.5397	0.021427	-0.0045	-0.003075	-0.0022	0.0011057
5e+12	2.516	2.525	2.537	0.0088213	2.3735	2.4791	2.5211	0.070763	-0.1635	-0.04585	-0.0037	0.078504
1e+13	2.5059	2.5149	2.5379	0.015334	2.4998	2.5117	2.5333	0.015686	-0.0085	-0.003275	0.0055	0.006083

Device Test: 6.74; VOL_RESET_2MA





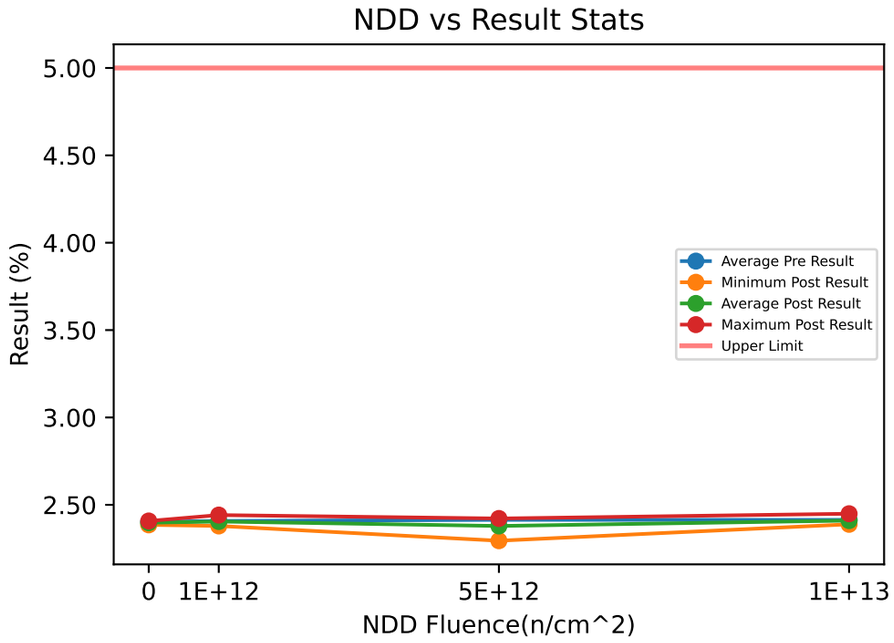
Test Results (Upper Limit = 5.0 (%))

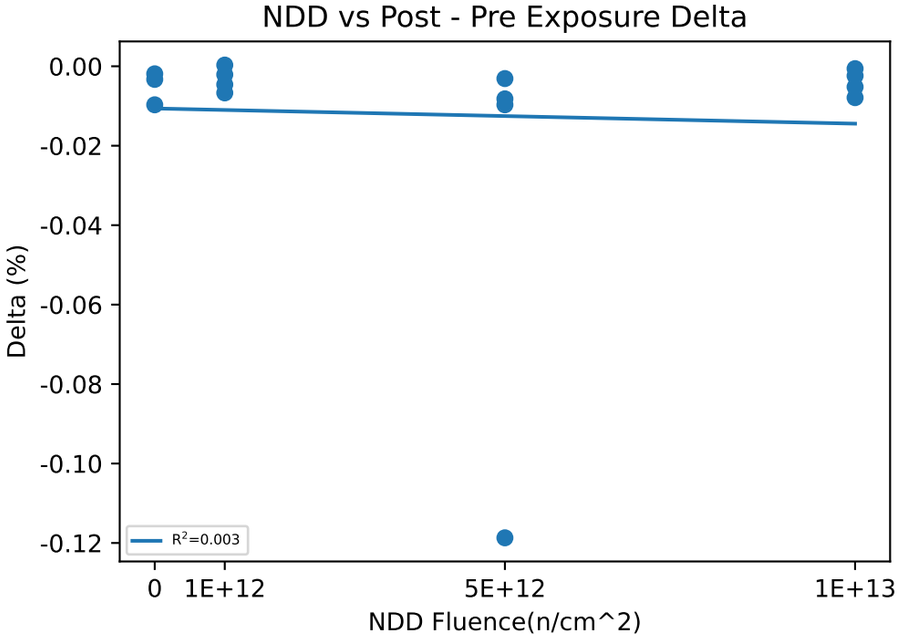
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.4636	2.4584	-0.0052
304	1e+12	NDD Unbiased	2.4694	2.4648	-0.0046
305	1e+12	NDD Unbiased	2.4838	2.4862	0.0024
306	1e+12	NDD Unbiased	2.5091	2.5036	-0.0055
307	5e+12	NDD Unbiased	2.4856	2.4746	-0.011
308	5e+12	NDD Unbiased	2.4908	2.4862	-0.0046
309	5e+12	NDD Unbiased	2.5002	2.4914	-0.0088
310	5e+12	NDD Unbiased	2.4932	2.3535	-0.1397
311	1e+13	NDD Unbiased	2.4798	2.4743	-0.0055
312	1e+13	NDD Unbiased	2.4838	2.4783	-0.0055
313	1e+13	NDD Unbiased	2.5136	2.5085	-0.0051
314	1e+13	NDD Unbiased	2.4767	2.4725	-0.0042
315	0	Correlation	2.4862	2.477	-0.0092
316	0	Correlation	2.496	2.4917	-0.0043
317	0	Correlation	2.4777	2.4761	-0.0016

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.4777	2.4866	2.496	0.0091577	2.4761	2.4816	2.4917	0.0087584	-0.0092	-0.0050333	-0.0016	0.0038527
1e+12	2.4636	2.4815	2.5091	0.02028	2.4584	2.4783	2.5036	0.020662	-0.0055	-0.003225	0.0024	0.0037686
5e+12	2.4856	2.4924	2.5002	0.0060627	2.3535	2.4514	2.4914	0.06566	-0.1397	-0.041025	-0.0046	0.065837
1e+13	2.4767	2.4885	2.5136	0.017	2.4725	2.4834	2.5085	0.016908	-0.0055	-0.005075	-0.0042	0.00061305

Device Test: 6.75; VOL_RESET_2MA





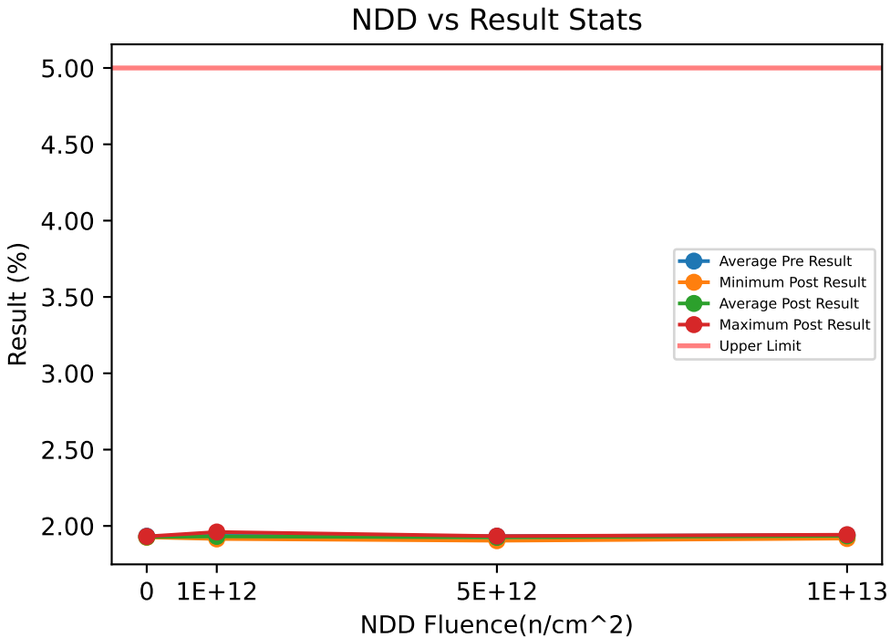
Test Results (Upper Limit = 5.0 (%))

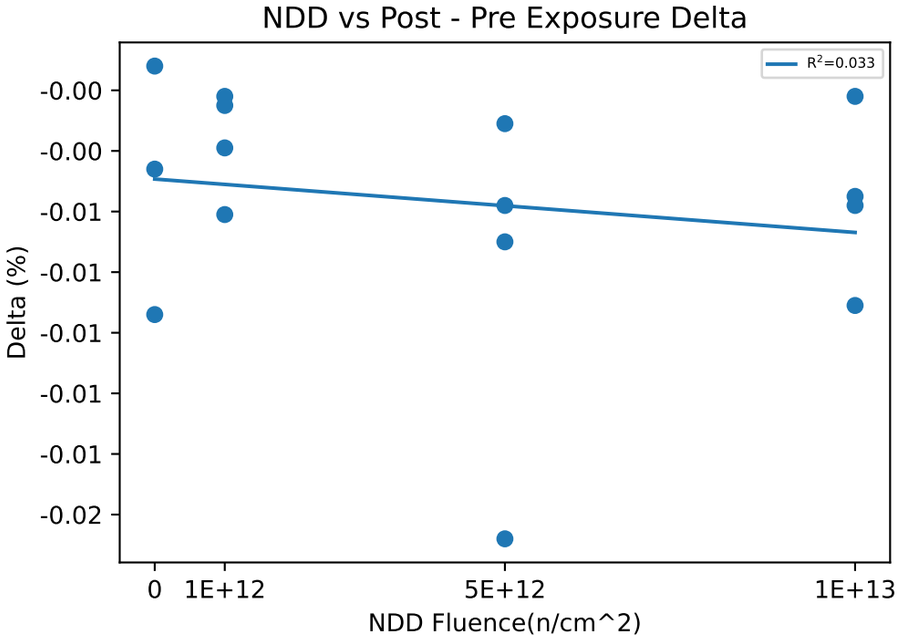
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	2.3858	2.3791	-0.0067
304	1e+12	NDD Unbiased	2.4035	2.3989	-0.0046
305	1e+12	NDD Unbiased	2.398	2.3983	0.0003
306	1e+12	NDD Unbiased	2.4435	2.4414	-0.0021
307	5e+12	NDD Unbiased	2.4096	2.3999	-0.0097
308	5e+12	NDD Unbiased	2.4081	2.3999	-0.0082
309	5e+12	NDD Unbiased	2.4249	2.4218	-0.0031
310	5e+12	NDD Unbiased	2.4133	2.2946	-0.1187
311	1e+13	NDD Unbiased	2.3965	2.3886	-0.0079
312	1e+13	NDD Unbiased	2.4075	2.4069	-0.0006
313	1e+13	NDD Unbiased	2.4542	2.449	-0.0052
314	1e+13	NDD Unbiased	2.3971	2.3947	-0.0024
315	0	Correlation	2.409	2.3993	-0.0097
316	0	Correlation	2.4108	2.4075	-0.0033
317	0	Correlation	2.3874	2.3855	-0.0019

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3874	2.4024	2.4108	0.013022	2.3855	2.3974	2.4075	0.011118	-0.0097	-0.0049667	-0.0019	0.0041585
1e+12	2.3858	2.4077	2.4435	0.024987	2.3791	2.4044	2.4414	0.026309	-0.0067	-0.003275	0.0003	0.0030358
5e+12	2.4081	2.414	2.4249	0.0076041	2.2946	2.3791	2.4218	0.057239	-0.1187	-0.034925	-0.0031	0.055921
1e+13	2.3965	2.4138	2.4542	0.027386	2.3886	2.4098	2.449	0.027218	-0.0079	-0.004025	-0.0006	0.0032025

Device Test: 6.76; VOL_WDO_2MA





Test Results (Upper Limit = 5.0 (%))

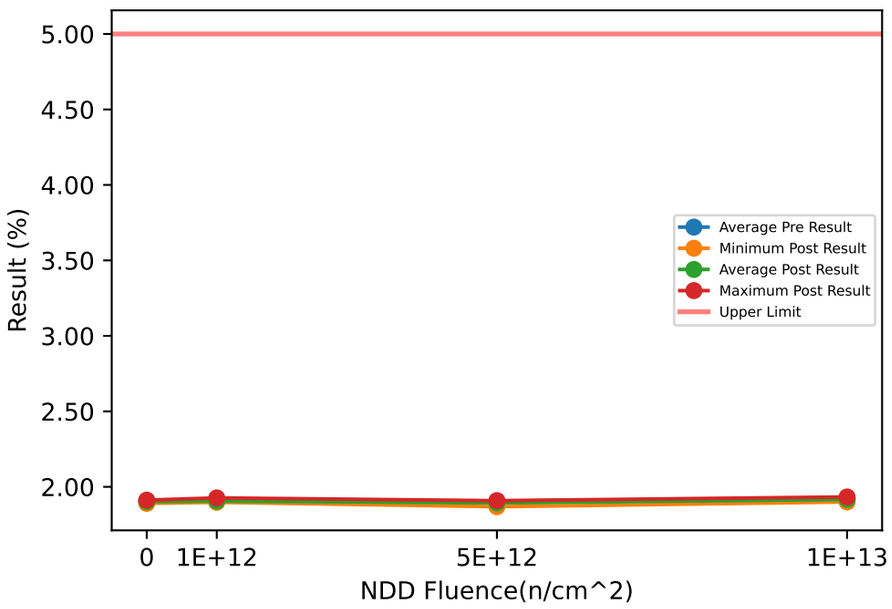
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.9209	1.9148	-0.0061
304	1e+12	NDD Unbiased	1.9185	1.9163	-0.0022
305	1e+12	NDD Unbiased	1.9368	1.9343	-0.0025
306	1e+12	NDD Unbiased	1.9642	1.9603	-0.0039
307	5e+12	NDD Unbiased	1.9389	1.9331	-0.0058
308	5e+12	NDD Unbiased	1.9368	1.9298	-0.007
309	5e+12	NDD Unbiased	1.9365	1.9334	-0.0031
310	5e+12	NDD Unbiased	1.92	1.9032	-0.0168
311	1e+13	NDD Unbiased	1.9233	1.9175	-0.0058
312	1e+13	NDD Unbiased	1.9438	1.9383	-0.0055
313	1e+13	NDD Unbiased	1.9517	1.9426	-0.0091
314	1e+13	NDD Unbiased	1.9435	1.9413	-0.0022
315	0	Correlation	1.9349	1.9255	-0.0094
316	0	Correlation	1.9359	1.9313	-0.0046
317	0	Correlation	1.9276	1.9264	-0.0012

Test Statistics (%)

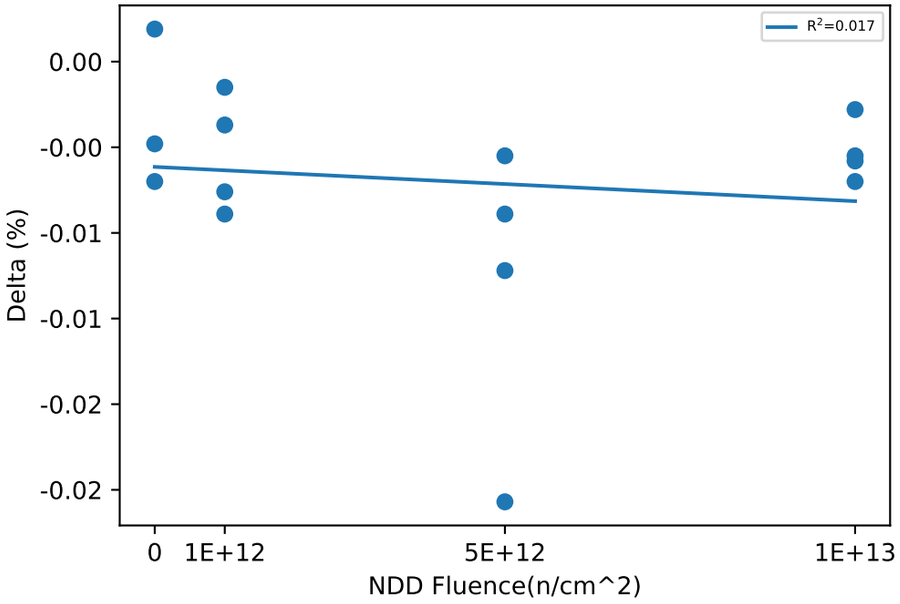
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9276	1.9328	1.9359	0.004531	1.9255	1.9277	1.9313	0.0031214	-0.0094	-0.0050667	-0.0012	0.0041199
1e+12	1.9185	1.9351	1.9642	0.021031	1.9148	1.9314	1.9603	0.021191	-0.0061	-0.003675	-0.0022	0.0017783
5e+12	1.92	1.9331	1.9389	0.0087653	1.9032	1.9249	1.9334	0.014542	-0.0168	-0.008175	-0.0031	0.0059768
1e+13	1.9233	1.9406	1.9517	0.012126	1.9175	1.9349	1.9426	0.011755	-0.0091	-0.00565	-0.0022	0.0028196

Device Test: 6.77; VOL_PWRGD_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (%))

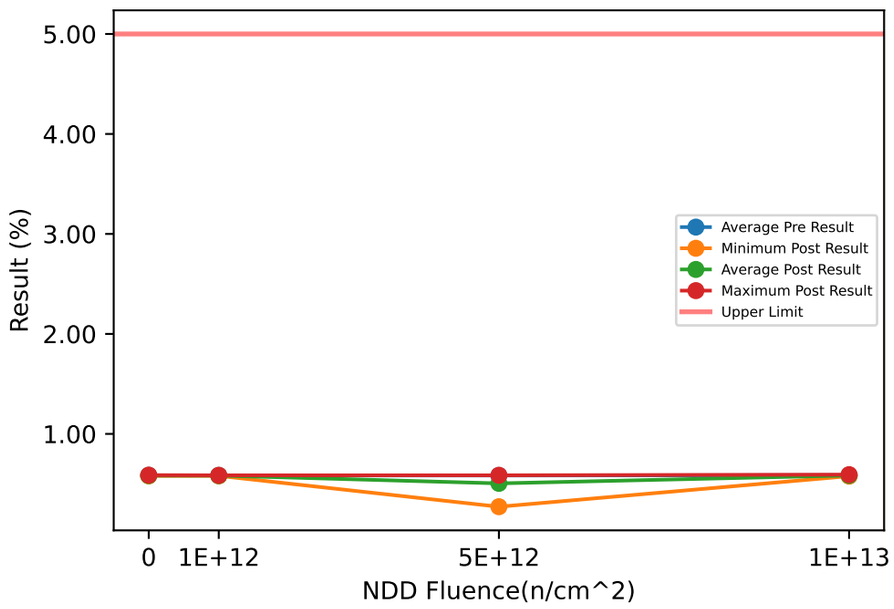
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.9086	1.901	-0.0076
304	1e+12	NDD Unbiased	1.9074	1.8985	-0.0089
305	1e+12	NDD Unbiased	1.9013	1.8976	-0.0037
306	1e+12	NDD Unbiased	1.9281	1.9266	-0.0015
307	5e+12	NDD Unbiased	1.9123	1.9034	-0.0089
308	5e+12	NDD Unbiased	1.9138	1.9083	-0.0055
309	5e+12	NDD Unbiased	1.9046	1.8924	-0.0122
310	5e+12	NDD Unbiased	1.894	1.8683	-0.0257
311	1e+13	NDD Unbiased	1.9074	1.9046	-0.0028
312	1e+13	NDD Unbiased	1.9056	1.8998	-0.0058
313	1e+13	NDD Unbiased	1.94	1.933	-0.007
314	1e+13	NDD Unbiased	1.9336	1.9281	-0.0055
315	0	Correlation	1.8976	1.8906	-0.007
316	0	Correlation	1.9101	1.912	0.0019
317	0	Correlation	1.9101	1.9053	-0.0048

Test Statistics (%)

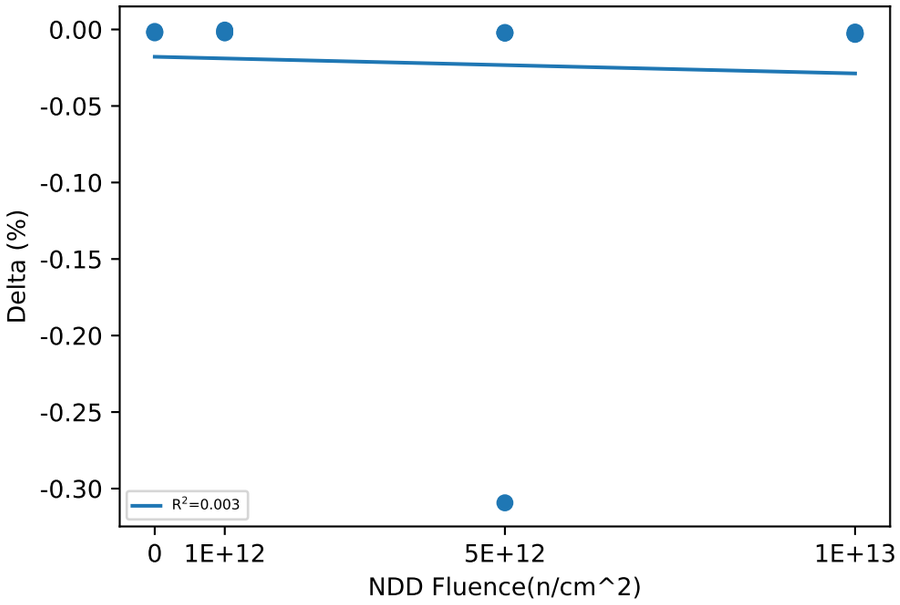
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8976	1.9059	1.9101	0.0072169	1.8906	1.9026	1.912	0.010946	-0.007	-0.0033	0.0019	0.0046357
1e+12	1.9013	1.9114	1.9281	0.011615	1.8976	1.9059	1.9266	0.013858	-0.0089	-0.005425	-0.0015	0.0034248
5e+12	1.894	1.9062	1.9138	0.0090621	1.8683	1.8931	1.9083	0.01782	-0.0257	-0.013075	-0.0055	0.00885
1e+13	1.9056	1.9217	1.94	0.017703	1.8998	1.9164	1.933	0.016606	-0.007	-0.005275	-0.0028	0.0017727

Device Test: 6.78; VOL_RESET_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (%))

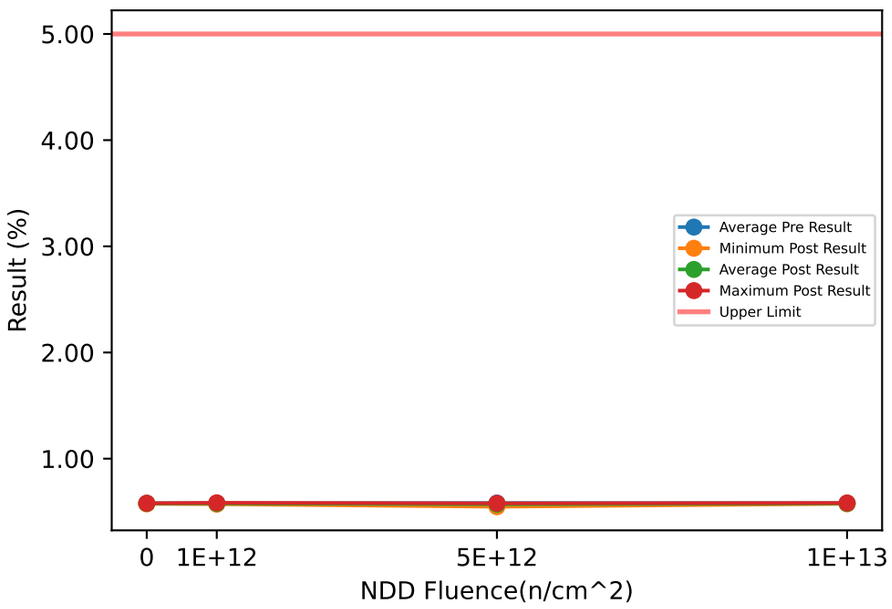
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.5842	0.5838	-0.0004
304	1e+12	NDD Unbiased	0.5848	0.5826	-0.0022
305	1e+12	NDD Unbiased	0.5868	0.5858	-0.001
306	1e+12	NDD Unbiased	0.5823	0.5803	-0.002
307	5e+12	NDD Unbiased	0.5848	0.5824	-0.0024
308	5e+12	NDD Unbiased	0.5881	0.5859	-0.0022
309	5e+12	NDD Unbiased	0.5823	0.5803	-0.002
310	5e+12	NDD Unbiased	0.5809	0.2716	-0.3093
311	1e+13	NDD Unbiased	0.5878	0.5849	-0.0029
312	1e+13	NDD Unbiased	0.579	0.5773	-0.0017
313	1e+13	NDD Unbiased	0.5957	0.5925	-0.0032
314	1e+13	NDD Unbiased	0.5851	0.5823	-0.0028
315	0	Correlation	0.5816	0.5798	-0.0018
316	0	Correlation	0.5899	0.5877	-0.0022
317	0	Correlation	0.5833	0.582	-0.0013

Test Statistics (%)

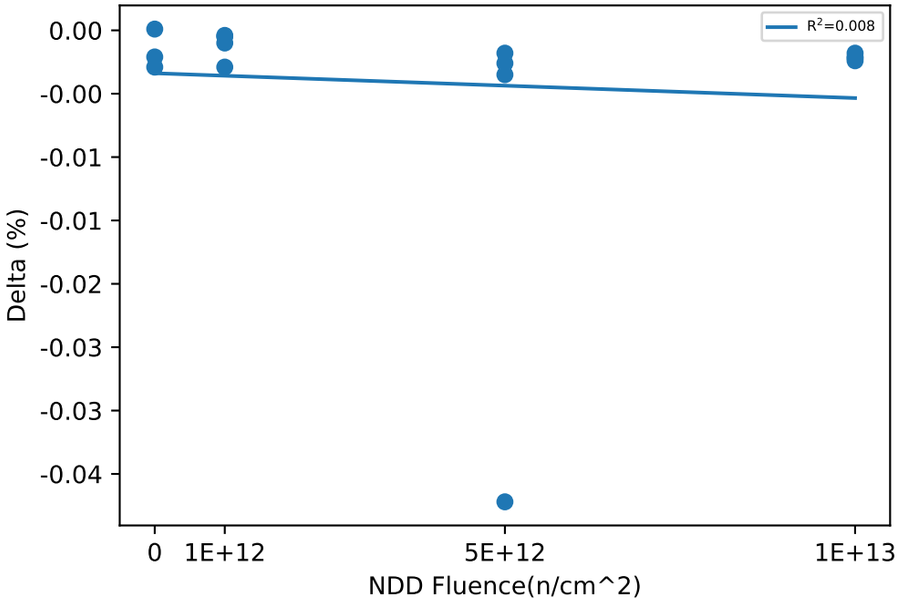
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5816	0.58493	0.5899	0.0043844	0.5798	0.58317	0.5877	0.0040772	-0.0022	-0.0017667	-0.0013	0.00045092
1e+12	0.5823	0.58452	0.5868	0.0018536	0.5803	0.58313	0.5858	0.0022998	-0.0022	-0.0014	-0.0004	0.00084853
5e+12	0.5809	0.58403	0.5881	0.0031595	0.2716	0.50505	0.5859	0.15565	-0.3093	-0.078975	-0.002	0.15355
1e+13	0.579	0.5869	0.5957	0.0069258	0.5773	0.58425	0.5925	0.0063401	-0.0032	-0.00265	-0.0017	0.00065574

Device Test: 6.79; VOL_RESET_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (%))

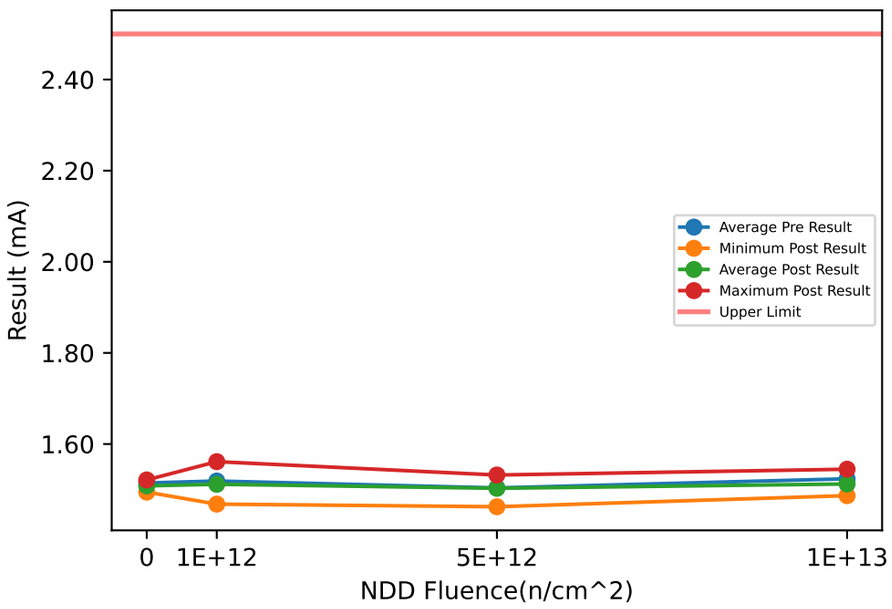
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.5744	0.5715	-0.0029
304	1e+12	NDD Unbiased	0.5792	0.5788	-0.0004
305	1e+12	NDD Unbiased	0.5775	0.577	-0.0005
306	1e+12	NDD Unbiased	0.5853	0.5843	-0.001
307	5e+12	NDD Unbiased	0.58	0.5765	-0.0035
308	5e+12	NDD Unbiased	0.581	0.5792	-0.0018
309	5e+12	NDD Unbiased	0.582	0.5794	-0.0026
310	5e+12	NDD Unbiased	0.5846	0.5474	-0.0372
311	1e+13	NDD Unbiased	0.5788	0.577	-0.0018
312	1e+13	NDD Unbiased	0.5771	0.5749	-0.0022
313	1e+13	NDD Unbiased	0.585	0.5829	-0.0021
314	1e+13	NDD Unbiased	0.5795	0.5771	-0.0024
315	0	Correlation	0.5773	0.5744	-0.0029
316	0	Correlation	0.581	0.5789	-0.0021
317	0	Correlation	0.5802	0.5803	0.0001

Test Statistics (%)

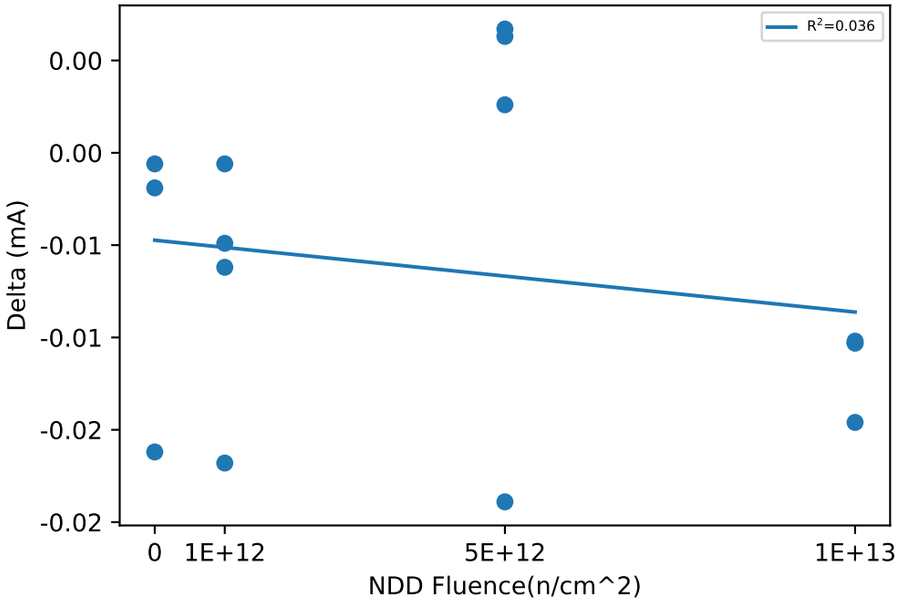
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5773	0.5795	0.581	0.0019468	0.5744	0.57787	0.5803	0.0030827	-0.0029	-0.0016333	0.0001	0.0015535
1e+12	0.5744	0.5791	0.5853	0.0045862	0.5715	0.5779	0.5843	0.005277	-0.0029	-0.0012	-0.0004	0.0011633
5e+12	0.58	0.5819	0.5846	0.0019765	0.5474	0.57063	0.5794	0.01554	-0.0372	-0.011275	-0.0018	0.017297
1e+13	0.5771	0.5801	0.585	0.0034186	0.5749	0.57797	0.5829	0.0034364	-0.0024	-0.002125	-0.0018	0.00025

Device Test: 6.8; IQ

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



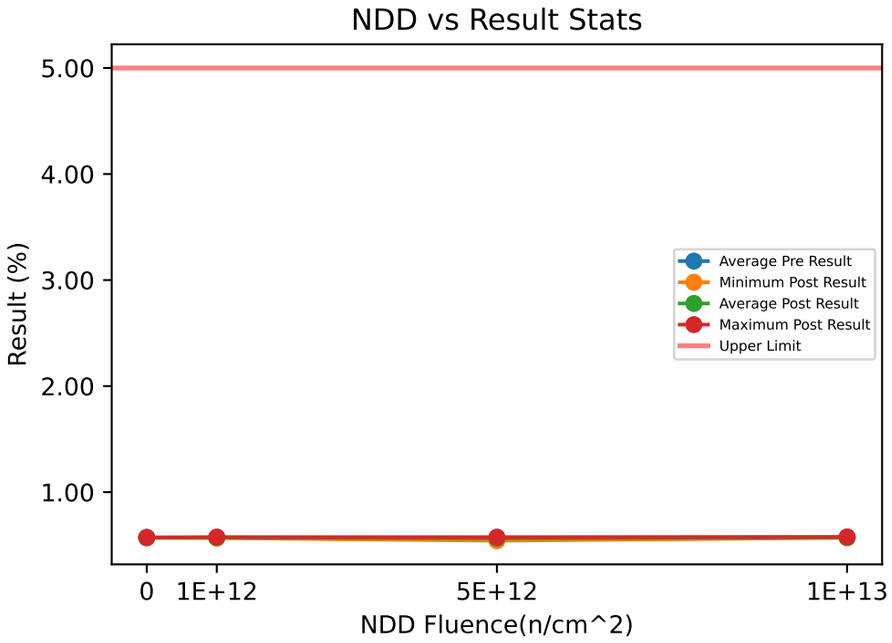
Test Results (Upper Limit = 2.5 (mA))

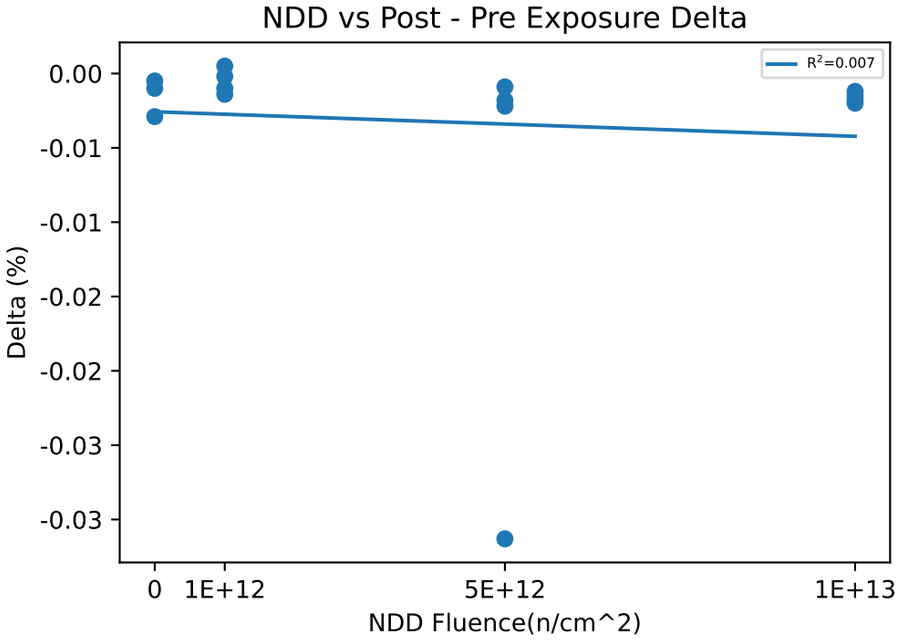
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	1.5328	1.516	-0.0168
304	1e+12	NDD Unbiased	1.5019	1.5013	-0.0006
305	1e+12	NDD Unbiased	1.4743	1.4681	-0.0062
306	1e+12	NDD Unbiased	1.5662	1.5613	-0.0049
307	5e+12	NDD Unbiased	1.5294	1.532	0.0026
308	5e+12	NDD Unbiased	1.4561	1.4624	0.0063
309	5e+12	NDD Unbiased	1.5235	1.5046	-0.0189
310	5e+12	NDD Unbiased	1.5057	1.5124	0.0067
311	1e+13	NDD Unbiased	1.5255	1.5109	-0.0146
312	1e+13	NDD Unbiased	1.5172	1.5069	-0.0103
313	1e+13	NDD Unbiased	1.555	1.5447	-0.0103
314	1e+13	NDD Unbiased	1.4969	1.4867	-0.0102
315	0	Correlation	1.5108	1.5089	-0.0019
316	0	Correlation	1.5374	1.5212	-0.0162
317	0	Correlation	1.4951	1.4945	-0.0006

Test Statistics (mA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.4951	1.5144	1.5374	0.021383	1.4945	1.5082	1.5212	0.013364	-0.0162	-0.0062333	-0.0006	0.0086558
1e+12	1.4743	1.5188	1.5662	0.039617	1.4681	1.5117	1.5613	0.038677	-0.0168	-0.007125	-0.0006	0.0068796
5e+12	1.4561	1.5037	1.5294	0.033278	1.4624	1.5029	1.532	0.029327	-0.0189	-0.000825	0.0067	0.012191
1e+13	1.4969	1.5236	1.555	0.024107	1.4867	1.5123	1.5447	0.024057	-0.0146	-0.01135	-0.0102	0.0021672

Device Test: 6.80; VOL_RESET_2MA





Test Results (Upper Limit = 5.0 (%))

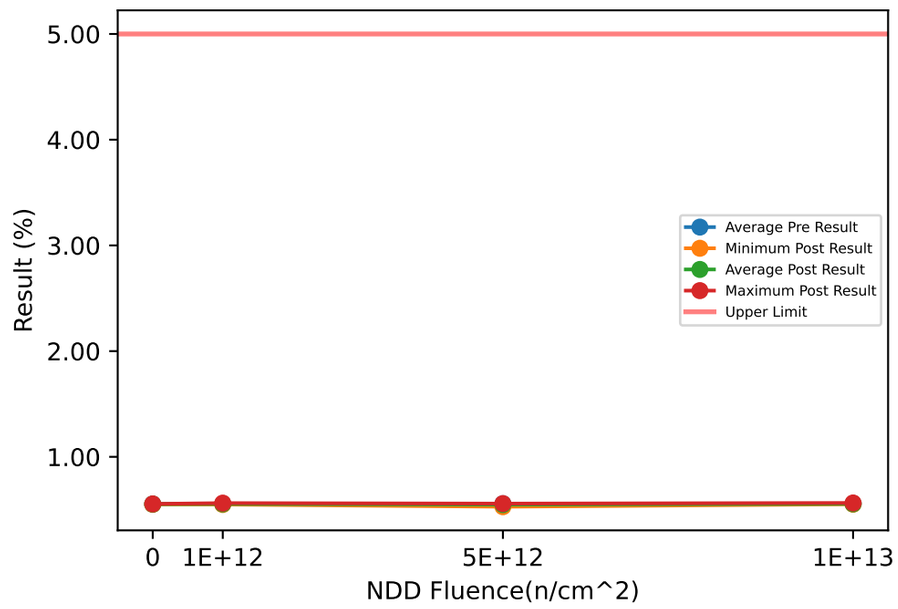
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.5678	0.5668	-0.001
304	1e+12	NDD Unbiased	0.5697	0.5683	-0.0014
305	1e+12	NDD Unbiased	0.572	0.5725	0.0005
306	1e+12	NDD Unbiased	0.5766	0.5764	-0.0002
307	5e+12	NDD Unbiased	0.5729	0.5707	-0.0022
308	5e+12	NDD Unbiased	0.5734	0.5725	-0.0009
309	5e+12	NDD Unbiased	0.576	0.5742	-0.0018
310	5e+12	NDD Unbiased	0.5734	0.5421	-0.0313
311	1e+13	NDD Unbiased	0.5729	0.5709	-0.002
312	1e+13	NDD Unbiased	0.5717	0.5702	-0.0015
313	1e+13	NDD Unbiased	0.5797	0.5779	-0.0018
314	1e+13	NDD Unbiased	0.571	0.5698	-0.0012
315	0	Correlation	0.5727	0.5698	-0.0029
316	0	Correlation	0.5739	0.5729	-0.001
317	0	Correlation	0.5707	0.5702	-0.0005

Test Statistics (%)

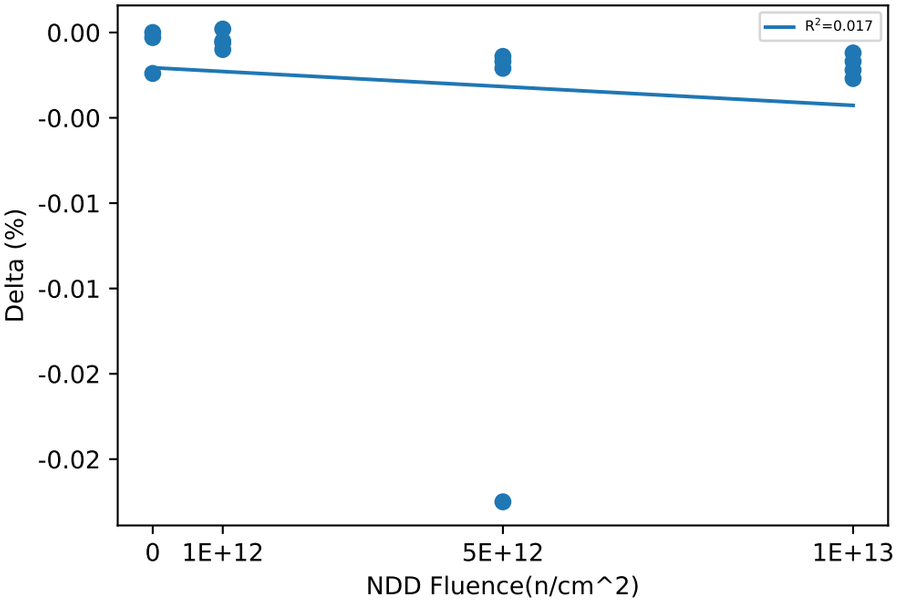
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5707	0.57243	0.5739	0.0016166	0.5698	0.57097	0.5729	0.0016862	-0.0029	-0.0014667	-0.0005	0.0012662
1e+12	0.5678	0.57152	0.5766	0.0037942	0.5668	0.571	0.5764	0.0043336	-0.0014	-0.000525	0.0005	0.00084607
5e+12	0.5729	0.57393	0.576	0.0014033	0.5421	0.56488	0.5742	0.01525	-0.0313	-0.00905	-0.0009	0.014843
1e+13	0.571	0.57383	0.5797	0.0039945	0.5698	0.5722	0.5779	0.0038271	-0.002	-0.001625	-0.0012	0.00035

Device Test: 6.81; VOL_RESET_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (%))

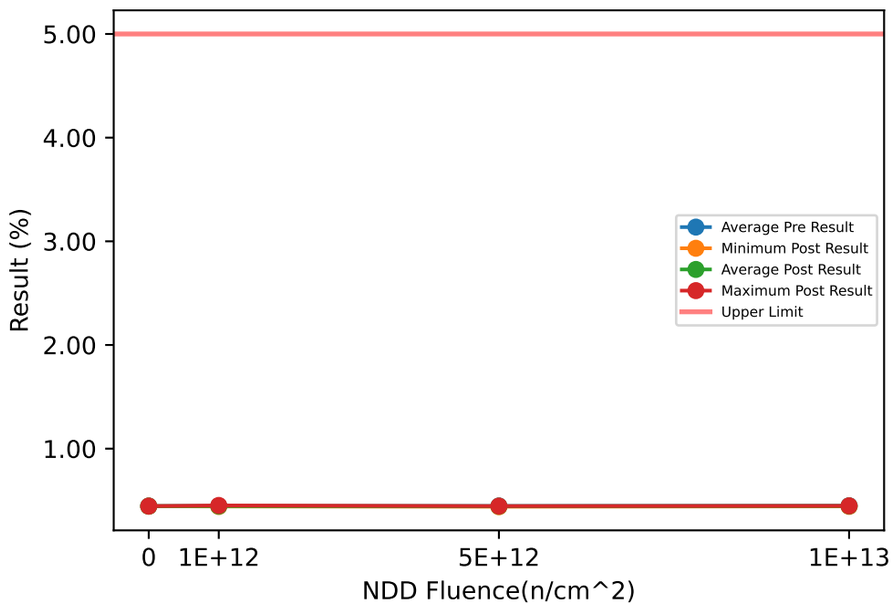
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.5495	0.549	-0.0005
304	1e+12	NDD Unbiased	0.5545	0.5535	-0.001
305	1e+12	NDD Unbiased	0.5534	0.5528	-0.0006
306	1e+12	NDD Unbiased	0.5619	0.5621	0.0002
307	5e+12	NDD Unbiased	0.5559	0.5538	-0.0021
308	5e+12	NDD Unbiased	0.5544	0.5527	-0.0017
309	5e+12	NDD Unbiased	0.5589	0.5575	-0.0014
310	5e+12	NDD Unbiased	0.5555	0.528	-0.0275
311	1e+13	NDD Unbiased	0.5538	0.5516	-0.0022
312	1e+13	NDD Unbiased	0.5545	0.5533	-0.0012
313	1e+13	NDD Unbiased	0.5662	0.5635	-0.0027
314	1e+13	NDD Unbiased	0.554	0.5523	-0.0017
315	0	Correlation	0.5547	0.5523	-0.0024
316	0	Correlation	0.5548	0.5545	-0.0003
317	0	Correlation	0.5501	0.5501	0

Test Statistics (%)

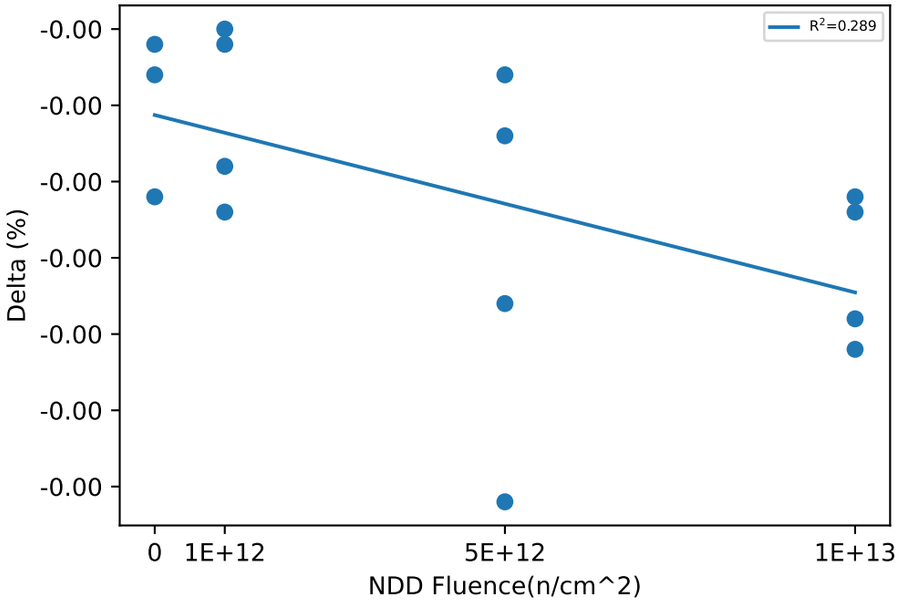
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5501	0.5532	0.5548	0.0026851	0.5501	0.5523	0.5545	0.0022	-0.0024	-0.0009	0	0.0013077
1e+12	0.5495	0.55483	0.5619	0.0051816	0.549	0.55435	0.5621	0.005532	-0.001	-0.000475	0.0002	0.00049917
5e+12	0.5544	0.55617	0.5589	0.0019242	0.528	0.548	0.5575	0.01349	-0.0275	-0.008175	-0.0014	0.012887
1e+13	0.5538	0.55712	0.5662	0.0060572	0.5516	0.55517	0.5635	0.0055937	-0.0027	-0.00195	-0.0012	0.0006455

Device Test: 6.82; VOL_WDO_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



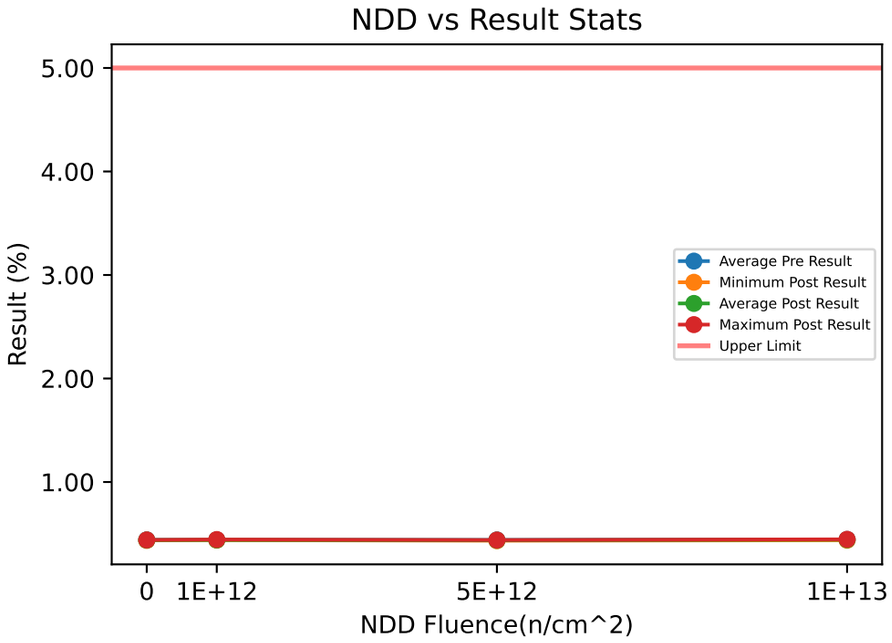
Test Results (Upper Limit = 5.0 (%))

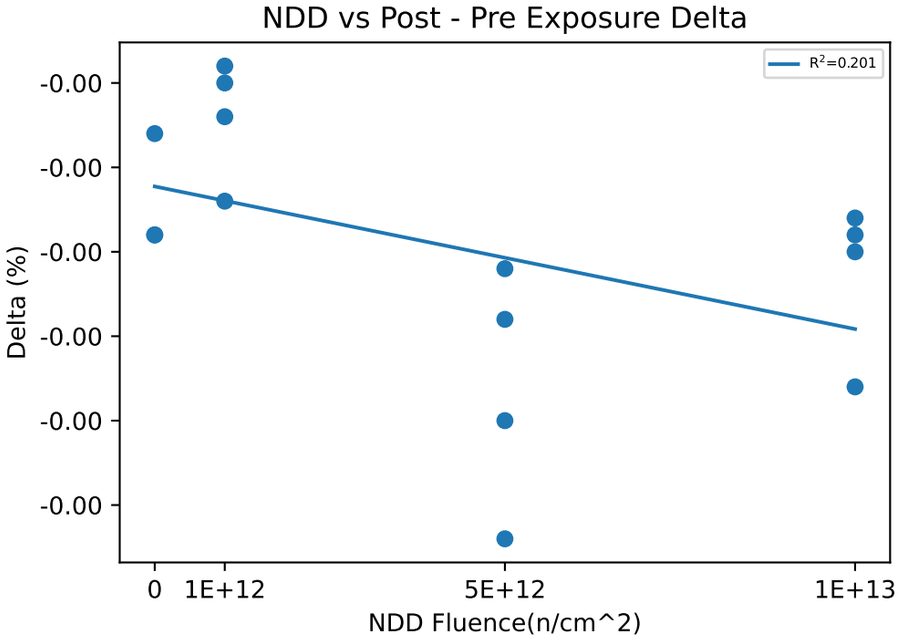
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.4441	0.4424	-0.0017
304	1e+12	NDD Unbiased	0.4438	0.4432	-0.0006
305	1e+12	NDD Unbiased	0.4472	0.4458	-0.0014
306	1e+12	NDD Unbiased	0.4527	0.4522	-0.0005
307	5e+12	NDD Unbiased	0.4485	0.4462	-0.0023
308	5e+12	NDD Unbiased	0.4469	0.4461	-0.0008
309	5e+12	NDD Unbiased	0.4474	0.4462	-0.0012
310	5e+12	NDD Unbiased	0.4436	0.44	-0.0036
311	1e+13	NDD Unbiased	0.4458	0.4434	-0.0024
312	1e+13	NDD Unbiased	0.449	0.4473	-0.0017
313	1e+13	NDD Unbiased	0.4511	0.4485	-0.0026
314	1e+13	NDD Unbiased	0.4501	0.4485	-0.0016
315	0	Correlation	0.4465	0.4449	-0.0016
316	0	Correlation	0.4466	0.4458	-0.0008
317	0	Correlation	0.4455	0.4449	-0.0006

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4455	0.4462	0.4466	0.00060828	0.4449	0.4452	0.4458	0.00051962	-0.0016	-0.001	-0.0006	0.00052915
1e+12	0.4438	0.44695	0.4527	0.00413	0.4424	0.4459	0.4522	0.0044437	-0.0017	-0.00105	-0.0005	0.00059161
5e+12	0.4436	0.4466	0.4485	0.0021087	0.44	0.44462	0.4462	0.0030837	-0.0036	-0.001975	-0.0008	0.0012553
1e+13	0.4458	0.449	0.4511	0.0022993	0.4434	0.44693	0.4485	0.0024171	-0.0026	-0.002075	-0.0016	0.00049917

Device Test: 6.83; VOL_PWRGD_2MA





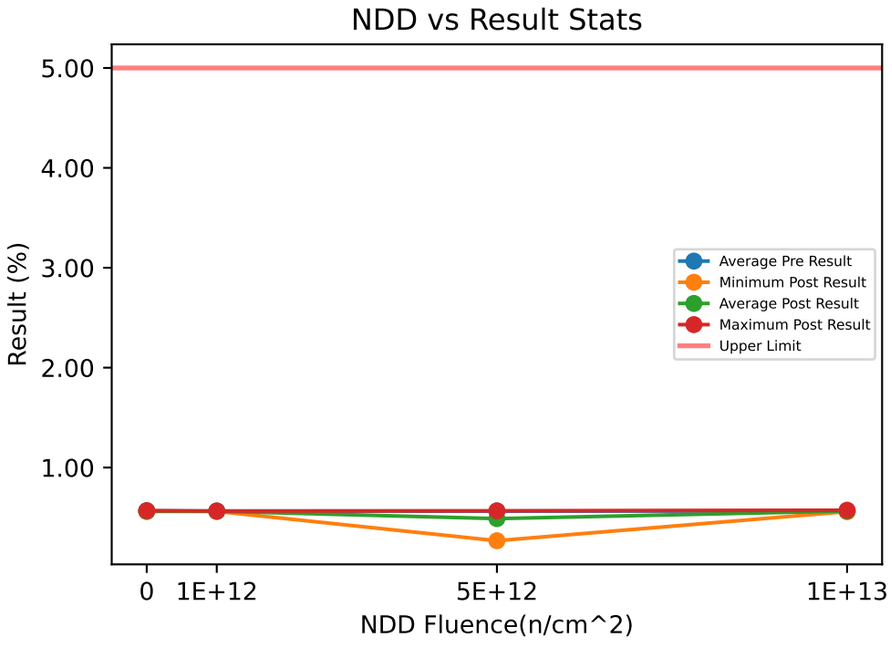
Test Results (Upper Limit = 5.0 (%))

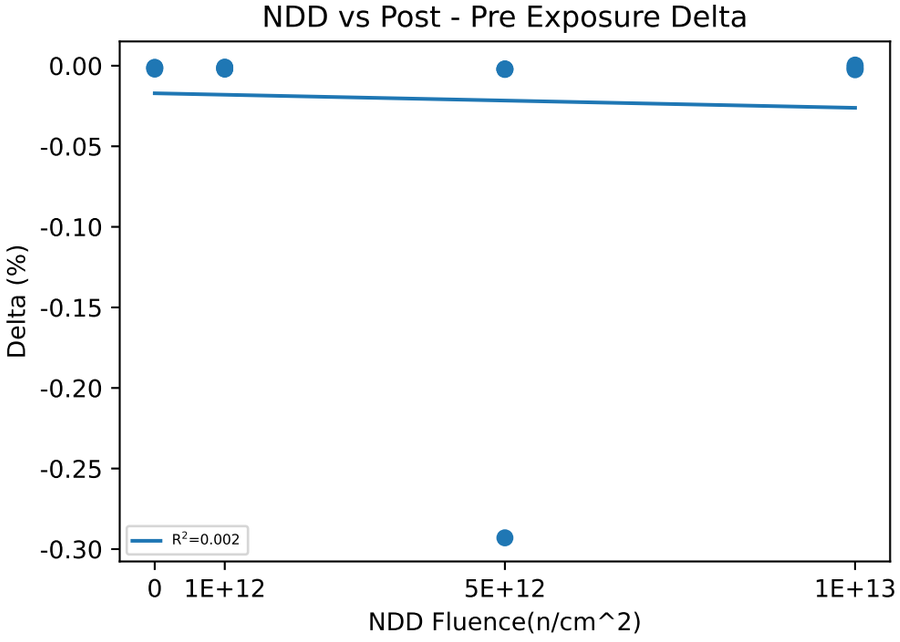
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.4394	0.4382	-0.0012
304	1e+12	NDD Unbiased	0.4411	0.4394	-0.0017
305	1e+12	NDD Unbiased	0.4394	0.4384	-0.001
306	1e+12	NDD Unbiased	0.4451	0.4442	-0.0009
307	5e+12	NDD Unbiased	0.4411	0.439	-0.0021
308	5e+12	NDD Unbiased	0.4424	0.4394	-0.003
309	5e+12	NDD Unbiased	0.4397	0.4373	-0.0024
310	5e+12	NDD Unbiased	0.4365	0.4328	-0.0037
311	1e+13	NDD Unbiased	0.442	0.4402	-0.0018
312	1e+13	NDD Unbiased	0.4394	0.4374	-0.002
313	1e+13	NDD Unbiased	0.4491	0.4463	-0.0028
314	1e+13	NDD Unbiased	0.448	0.4461	-0.0019
315	0	Correlation	0.4378	0.4359	-0.0019
316	0	Correlation	0.4425	0.4406	-0.0019
317	0	Correlation	0.441	0.4397	-0.0013

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4378	0.44043	0.4425	0.0024007	0.4359	0.43873	0.4406	0.0024947	-0.0019	-0.0017	-0.0013	0.00034641
1e+12	0.4394	0.44125	0.4451	0.0026889	0.4382	0.44005	0.4442	0.002816	-0.0017	-0.0012	-0.0009	0.0003559
5e+12	0.4365	0.43993	0.4424	0.0025356	0.4328	0.43712	0.4394	0.0030237	-0.0037	-0.0028	-0.0021	0.00070711
1e+13	0.4394	0.44462	0.4491	0.0046764	0.4374	0.4425	0.4463	0.0044234	-0.0028	-0.002125	-0.0018	0.00045735

Device Test: 6.84; VOL_RESET_2MA





Test Results (Upper Limit = 5.0 (%))

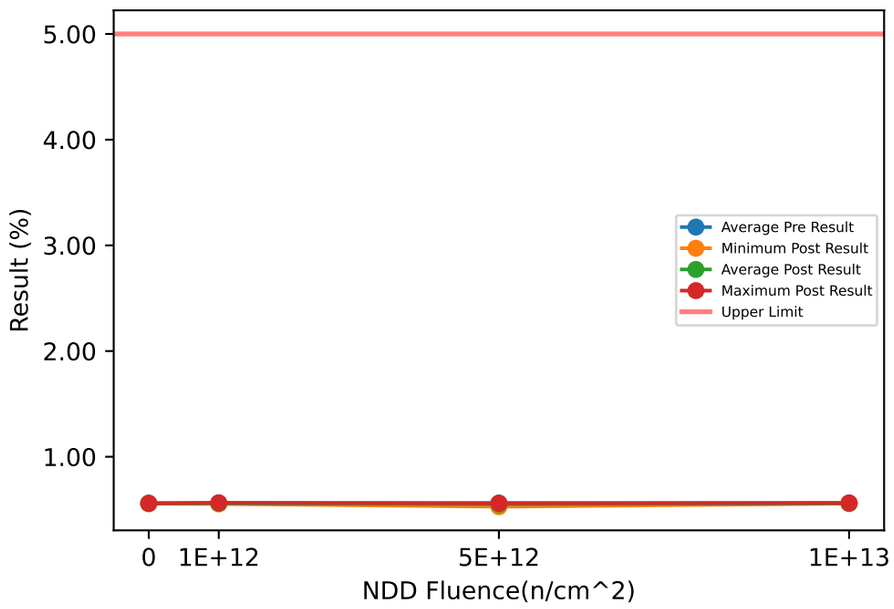
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.564	0.5619	-0.0021
304	1e+12	NDD Unbiased	0.5633	0.5624	-0.0009
305	1e+12	NDD Unbiased	0.5665	0.5646	-0.0019
306	1e+12	NDD Unbiased	0.562	0.5609	-0.0011
307	5e+12	NDD Unbiased	0.5639	0.5616	-0.0023
308	5e+12	NDD Unbiased	0.5686	0.5666	-0.002
309	5e+12	NDD Unbiased	0.5612	0.5591	-0.0021
310	5e+12	NDD Unbiased	0.5604	0.2674	-0.293
311	1e+13	NDD Unbiased	0.5651	0.5632	-0.0019
312	1e+13	NDD Unbiased	0.5592	0.5585	-0.0007
313	1e+13	NDD Unbiased	0.5752	0.5727	-0.0025
314	1e+13	NDD Unbiased	0.5626	0.563	0.0004
315	0	Correlation	0.5611	0.56	-0.0011
316	0	Correlation	0.5697	0.5686	-0.0011
317	0	Correlation	0.5652	0.5631	-0.0021

Test Statistics (%)

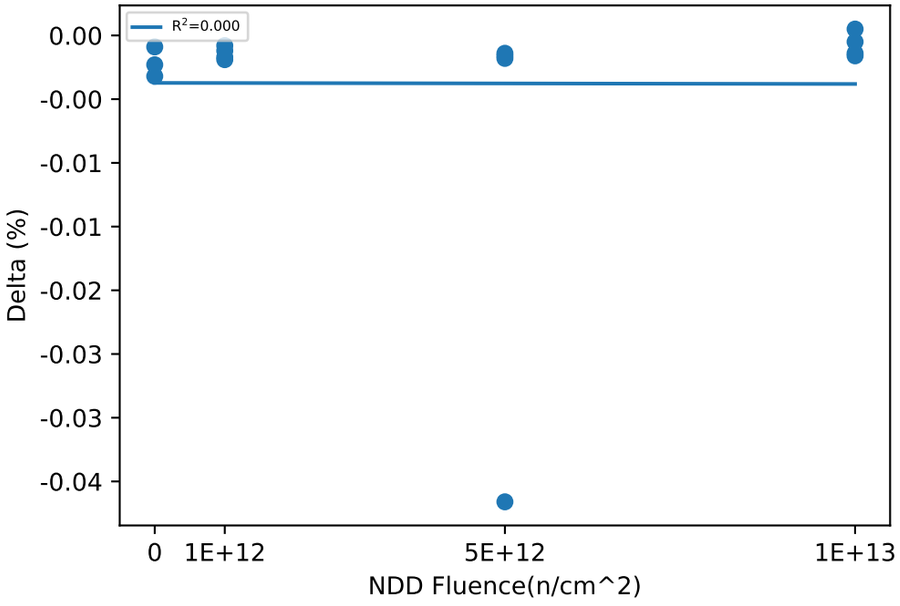
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5611	0.56533	0.5697	0.0043016	0.56	0.5639	0.5686	0.0043555	-0.0021	-0.0014333	-0.0011	0.00057735
1e+12	0.562	0.56395	0.5665	0.0018912	0.5609	0.56245	0.5646	0.0015631	-0.0021	-0.0015	-0.0009	0.00058878
5e+12	0.5604	0.56353	0.5686	0.0036999	0.2674	0.48868	0.5666	0.14755	-0.293	-0.07485	-0.002	0.14543
1e+13	0.5592	0.56553	0.5752	0.0068883	0.5585	0.56435	0.5727	0.0059747	-0.0025	-0.001175	0.0004	0.0012894

Device Test: 6.85; VOL_RESET_2MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



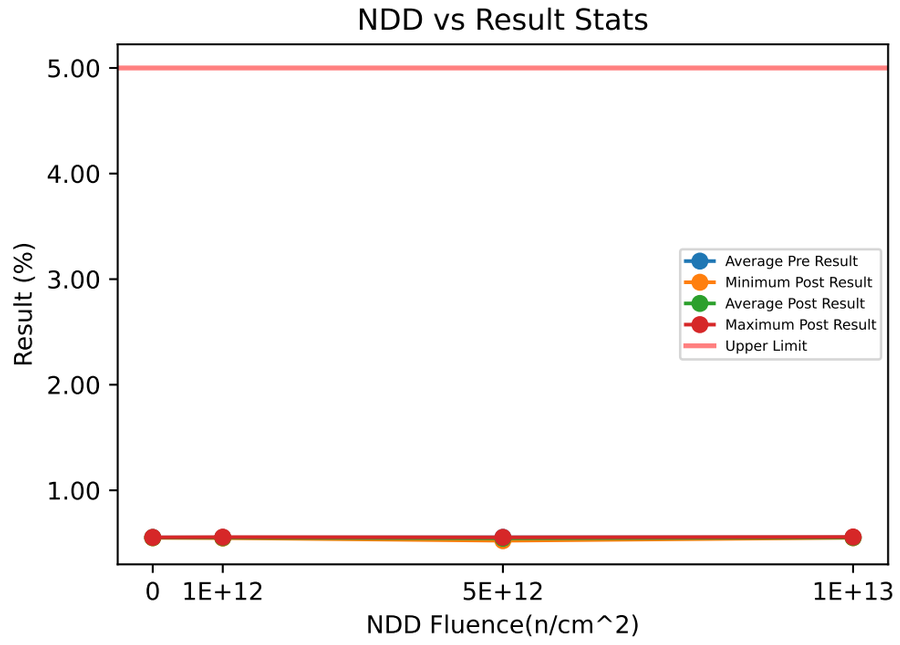
Test Results (Upper Limit = 5.0 (%))

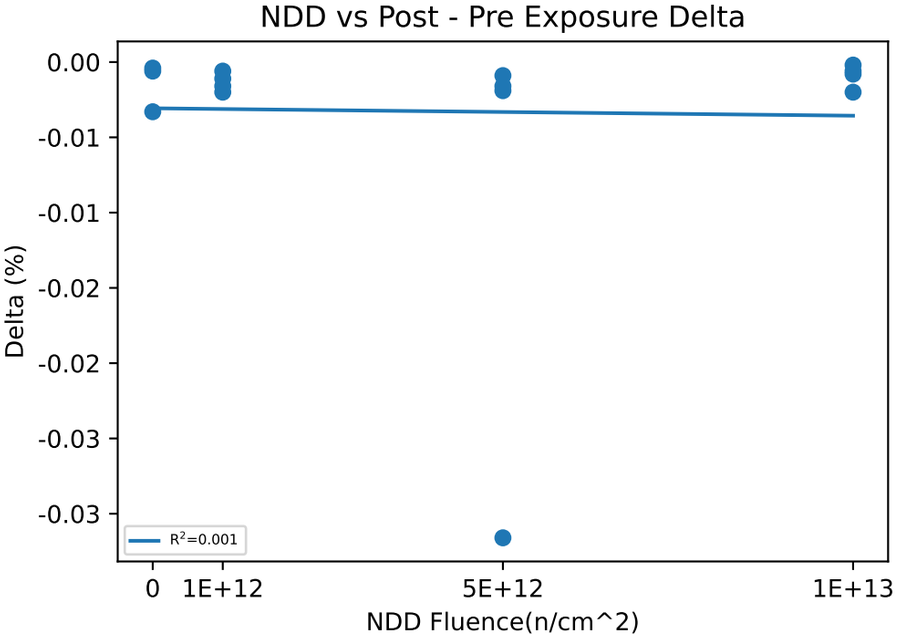
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.5553	0.5541	-0.0012
304	1e+12	NDD Unbiased	0.5592	0.5584	-0.0008
305	1e+12	NDD Unbiased	0.558	0.5563	-0.0017
306	1e+12	NDD Unbiased	0.5666	0.5647	-0.0019
307	5e+12	NDD Unbiased	0.5595	0.5581	-0.0014
308	5e+12	NDD Unbiased	0.5609	0.5591	-0.0018
309	5e+12	NDD Unbiased	0.5615	0.5599	-0.0016
310	5e+12	NDD Unbiased	0.5638	0.5272	-0.0366
311	1e+13	NDD Unbiased	0.5594	0.5578	-0.0016
312	1e+13	NDD Unbiased	0.5575	0.557	-0.0005
313	1e+13	NDD Unbiased	0.5647	0.5633	-0.0014
314	1e+13	NDD Unbiased	0.5583	0.5588	0.0005
315	0	Correlation	0.5582	0.555	-0.0032
316	0	Correlation	0.5614	0.5591	-0.0023
317	0	Correlation	0.5606	0.5597	-0.0009

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5582	0.56007	0.5614	0.0016653	0.555	0.55793	0.5597	0.002558	-0.0032	-0.0021333	-0.0009	0.001159
1e+12	0.5553	0.55978	0.5666	0.0048335	0.5541	0.55838	0.5647	0.0045675	-0.0019	-0.0014	-0.0008	0.00049666
5e+12	0.5595	0.56142	0.5638	0.0017914	0.5272	0.55107	0.5599	0.015934	-0.0366	-0.01035	-0.0014	0.017501
1e+13	0.5575	0.55998	0.5647	0.0032449	0.557	0.55922	0.5633	0.0028147	-0.0016	-0.00075	0.0005	0.0009609

Device Test: 6.86; VOL_RESET_2MA





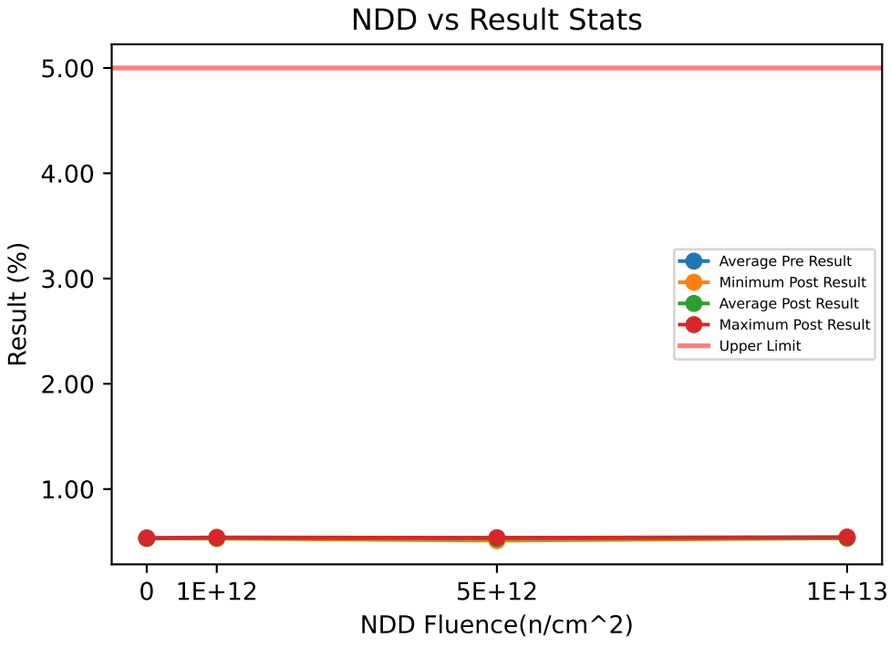
Test Results (Upper Limit = 5.0 (%))

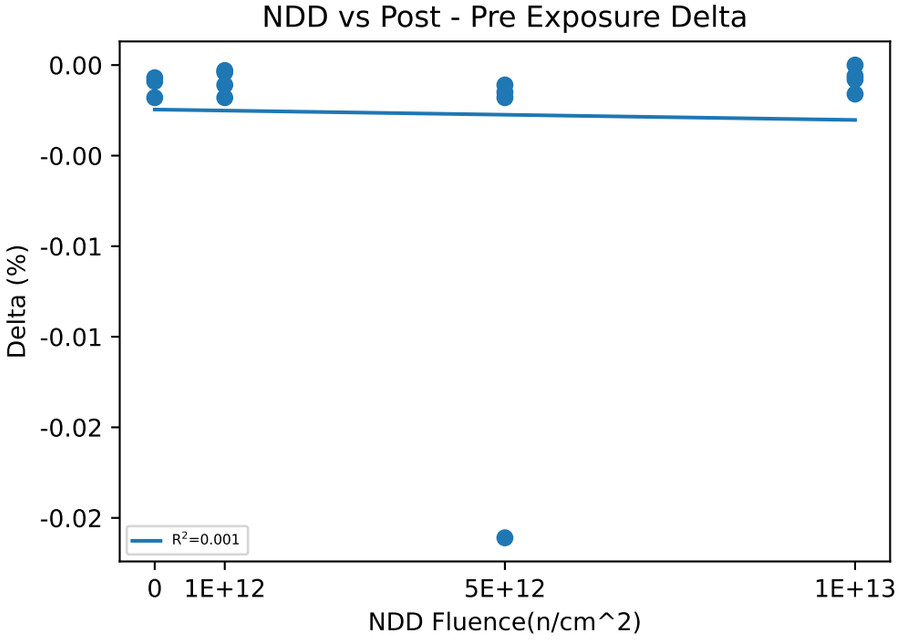
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.5482	0.5476	-0.0006
304	1e+12	NDD Unbiased	0.5503	0.5483	-0.002
305	1e+12	NDD Unbiased	0.5532	0.5521	-0.0011
306	1e+12	NDD Unbiased	0.5582	0.5566	-0.0016
307	5e+12	NDD Unbiased	0.5524	0.5508	-0.0016
308	5e+12	NDD Unbiased	0.5546	0.5527	-0.0019
309	5e+12	NDD Unbiased	0.5556	0.5547	-0.0009
310	5e+12	NDD Unbiased	0.5542	0.5226	-0.0316
311	1e+13	NDD Unbiased	0.5528	0.5508	-0.002
312	1e+13	NDD Unbiased	0.552	0.5512	-0.0008
313	1e+13	NDD Unbiased	0.5587	0.5581	-0.0006
314	1e+13	NDD Unbiased	0.5508	0.5506	-0.0002
315	0	Correlation	0.5534	0.5501	-0.0033
316	0	Correlation	0.555	0.5546	-0.0004
317	0	Correlation	0.5512	0.5506	-0.0006

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5512	0.5532	0.555	0.0019079	0.5501	0.55177	0.5546	0.0024664	-0.0033	-0.0014333	-0.0004	0.0016197
1e+12	0.5482	0.55248	0.5582	0.0043323	0.5476	0.55115	0.5566	0.0041364	-0.002	-0.001325	-0.0006	0.00060759
5e+12	0.5524	0.5542	0.5556	0.0013367	0.5226	0.5452	0.5547	0.015151	-0.0316	-0.009	-0.0009	0.015072
1e+13	0.5508	0.55357	0.5587	0.0035141	0.5506	0.55268	0.5581	0.0036253	-0.002	-0.0009	-0.0002	0.0007746

Device Test: 6.87; VOL_RESET_2MA





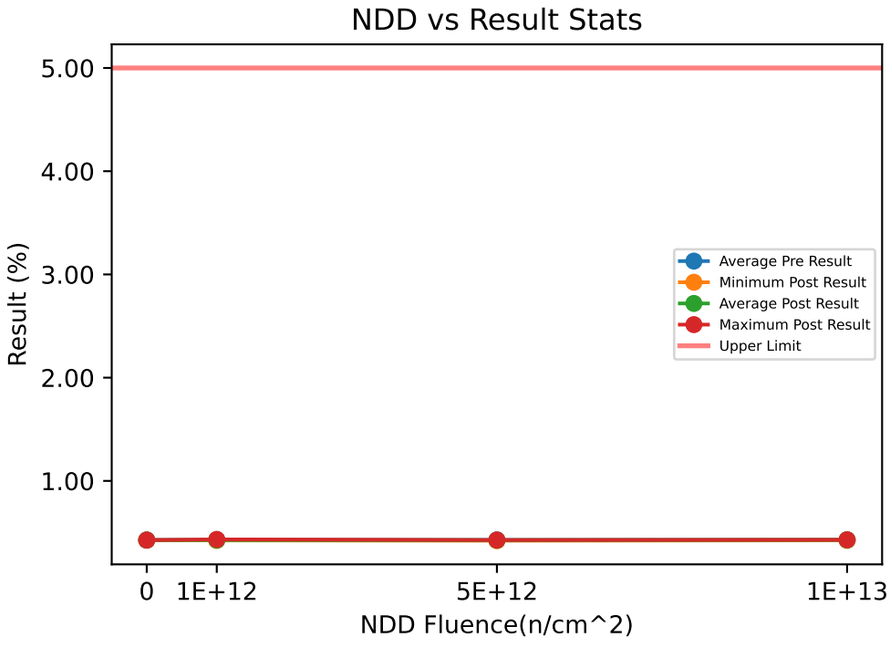
Test Results (Upper Limit = 5.0 (%))

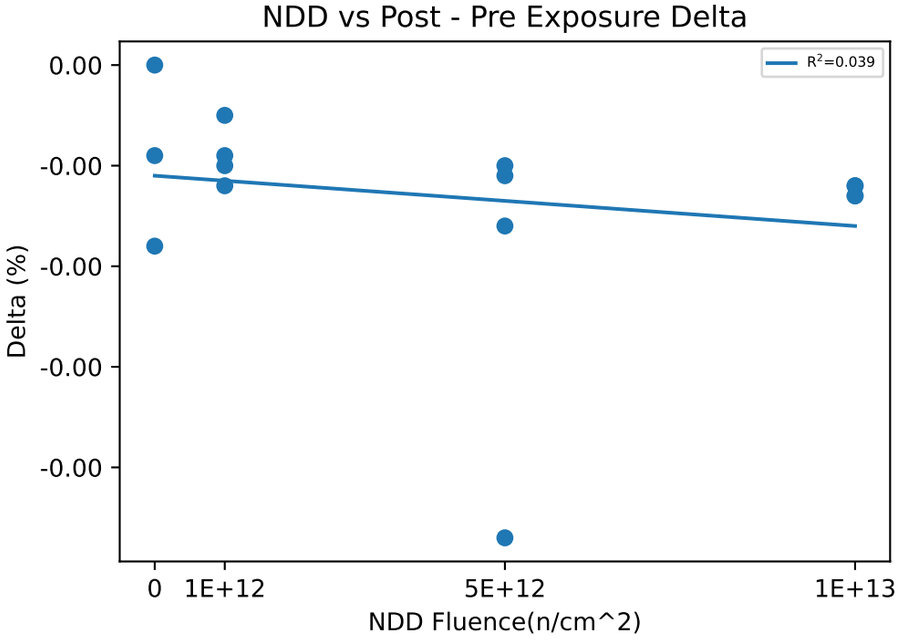
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.5303	0.5285	-0.0018
304	1e+12	NDD Unbiased	0.5339	0.5335	-0.0004
305	1e+12	NDD Unbiased	0.5339	0.5336	-0.0003
306	1e+12	NDD Unbiased	0.5425	0.5414	-0.0011
307	5e+12	NDD Unbiased	0.5353	0.5335	-0.0018
308	5e+12	NDD Unbiased	0.5355	0.534	-0.0015
309	5e+12	NDD Unbiased	0.5386	0.5375	-0.0011
310	5e+12	NDD Unbiased	0.5355	0.5094	-0.0261
311	1e+13	NDD Unbiased	0.534	0.5324	-0.0016
312	1e+13	NDD Unbiased	0.5351	0.5351	0
313	1e+13	NDD Unbiased	0.5452	0.5444	-0.0008
314	1e+13	NDD Unbiased	0.5329	0.5323	-0.0006
315	0	Correlation	0.5349	0.5331	-0.0018
316	0	Correlation	0.5357	0.5348	-0.0009
317	0	Correlation	0.5308	0.5301	-0.0007

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5308	0.5338	0.5357	0.0026287	0.5301	0.53267	0.5348	0.0023798	-0.0018	-0.0011333	-0.0007	0.00058595
1e+12	0.5303	0.53515	0.5425	0.0051856	0.5285	0.53425	0.5414	0.0053282	-0.0018	-0.0009	-0.0003	0.00069761
5e+12	0.5353	0.53622	0.5386	0.0015861	0.5094	0.5286	0.5375	0.012923	-0.0261	-0.007625	-0.0011	0.01232
1e+13	0.5329	0.5368	0.5452	0.0056716	0.5323	0.53605	0.5444	0.0057158	-0.0016	-0.00075	0	0.00066081

Device Test: 6.88; VOL_WDO_2MA





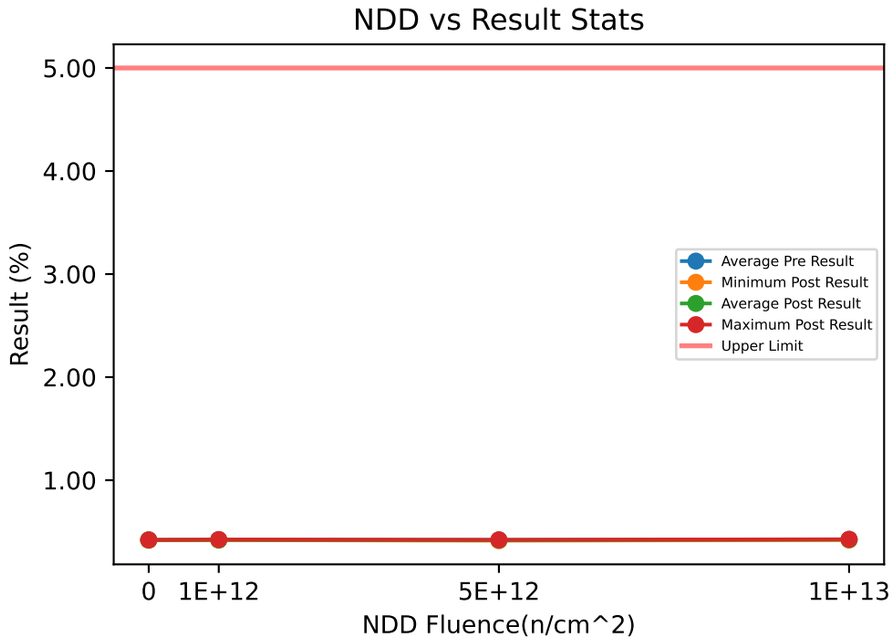
Test Results (Upper Limit = 5.0 (%))

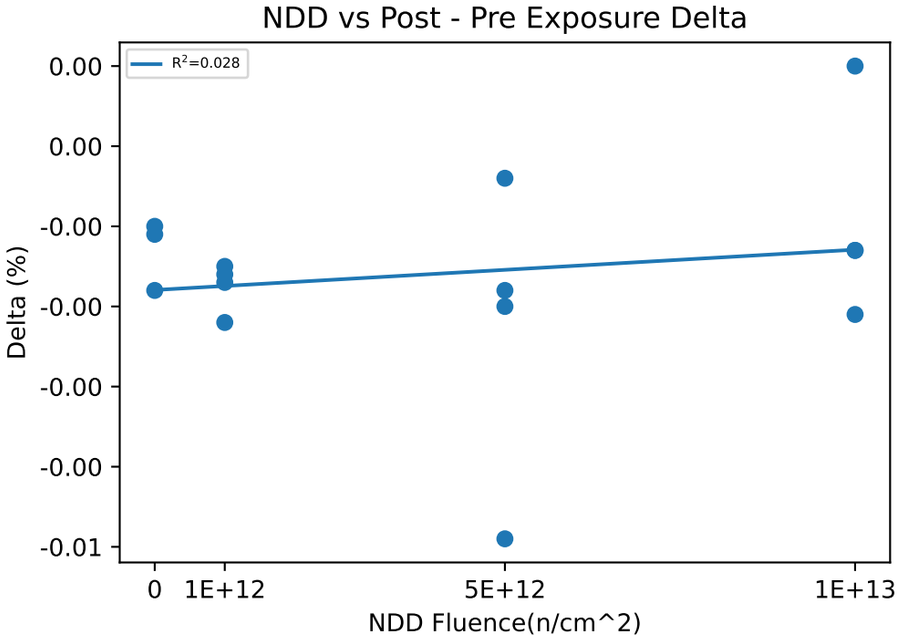
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.4248	0.4236	-0.0012
304	1e+12	NDD Unbiased	0.4241	0.4231	-0.001
305	1e+12	NDD Unbiased	0.4272	0.4267	-0.0005
306	1e+12	NDD Unbiased	0.4341	0.4332	-0.0009
307	5e+12	NDD Unbiased	0.4288	0.4272	-0.0016
308	5e+12	NDD Unbiased	0.428	0.4269	-0.0011
309	5e+12	NDD Unbiased	0.4281	0.4271	-0.001
310	5e+12	NDD Unbiased	0.4251	0.4204	-0.0047
311	1e+13	NDD Unbiased	0.4253	0.4241	-0.0012
312	1e+13	NDD Unbiased	0.4296	0.4284	-0.0012
313	1e+13	NDD Unbiased	0.4309	0.4296	-0.0013
314	1e+13	NDD Unbiased	0.4298	0.4285	-0.0013
315	0	Correlation	0.4274	0.4256	-0.0018
316	0	Correlation	0.4274	0.4265	-0.0009
317	0	Correlation	0.4262	0.4262	0

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4262	0.427	0.4274	0.00069282	0.4256	0.4261	0.4265	0.00045826	-0.0018	-0.0009	0	0.0009
1e+12	0.4241	0.42755	0.4341	0.004564	0.4231	0.42665	0.4332	0.0046479	-0.0012	-0.0009	-0.0005	0.00029439
5e+12	0.4251	0.4275	0.4288	0.0016391	0.4204	0.4254	0.4272	0.0033357	-0.0047	-0.0021	-0.001	0.0017531
1e+13	0.4253	0.4289	0.4309	0.0024671	0.4241	0.42765	0.4296	0.0024283	-0.0013	-0.00125	-0.0012	5.7735e-05

Device Test: 6.89; VOL_PWRGD_2MA





Test Results (Upper Limit = 5.0 (%))

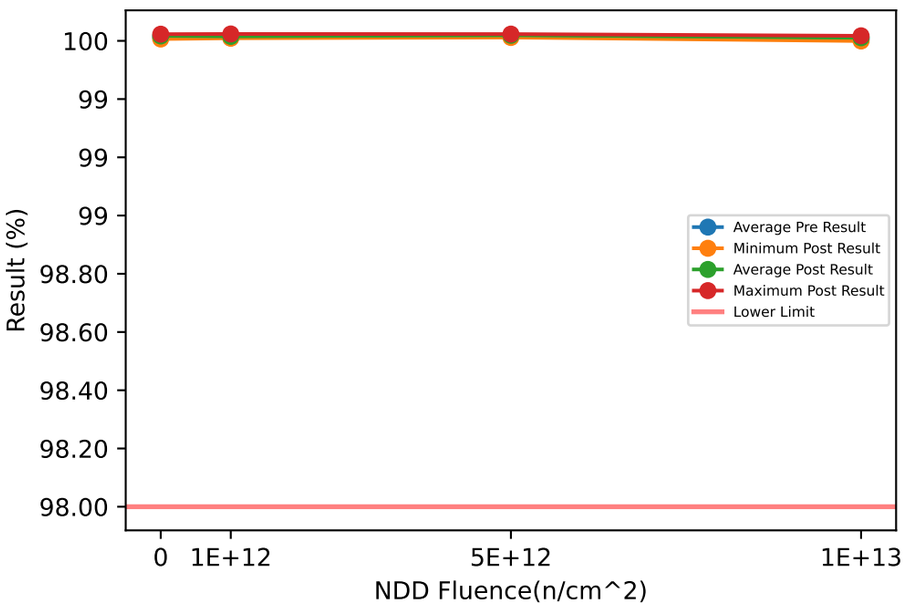
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	0.4211	0.4196	-0.0015
304	1e+12	NDD Unbiased	0.4209	0.4192	-0.0017
305	1e+12	NDD Unbiased	0.4204	0.4182	-0.0022
306	1e+12	NDD Unbiased	0.4261	0.4245	-0.0016
307	5e+12	NDD Unbiased	0.4226	0.4206	-0.002
308	5e+12	NDD Unbiased	0.4218	0.4214	-0.0004
309	5e+12	NDD Unbiased	0.4196	0.4178	-0.0018
310	5e+12	NDD Unbiased	0.4177	0.4128	-0.0049
311	1e+13	NDD Unbiased	0.4215	0.4194	-0.0021
312	1e+13	NDD Unbiased	0.4208	0.4195	-0.0013
313	1e+13	NDD Unbiased	0.4279	0.4266	-0.0013
314	1e+13	NDD Unbiased	0.4261	0.4271	0.001
315	0	Correlation	0.419	0.4172	-0.0018
316	0	Correlation	0.4218	0.4208	-0.001
317	0	Correlation	0.4215	0.4204	-0.0011

Test Statistics (%)

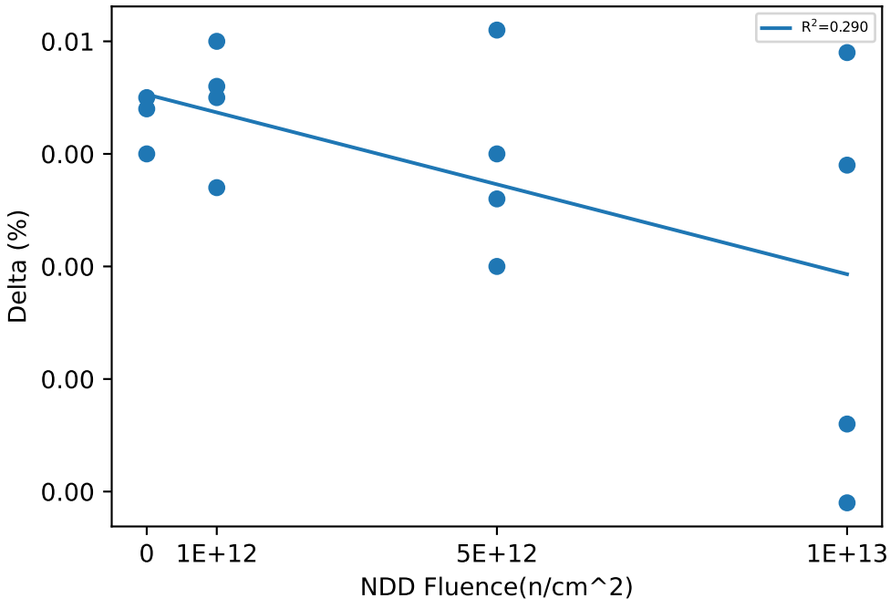
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.419	0.42077	0.4218	0.0015373	0.4172	0.41947	0.4208	0.0019732	-0.0018	-0.0013	-0.001	0.00043589
1e+12	0.4204	0.42212	0.4261	0.0026663	0.4182	0.42037	0.4245	0.0028123	-0.0022	-0.00175	-0.0015	0.00031091
5e+12	0.4177	0.42042	0.4226	0.0022157	0.4128	0.41815	0.4214	0.0038863	-0.0049	-0.002275	-0.0004	0.0018892
1e+13	0.4208	0.42407	0.4279	0.0034683	0.4194	0.42315	0.4271	0.0042775	-0.0021	-0.000925	0.001	0.0013376

Device Test: 6.9; VLDO_DO

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 98.0 (%))

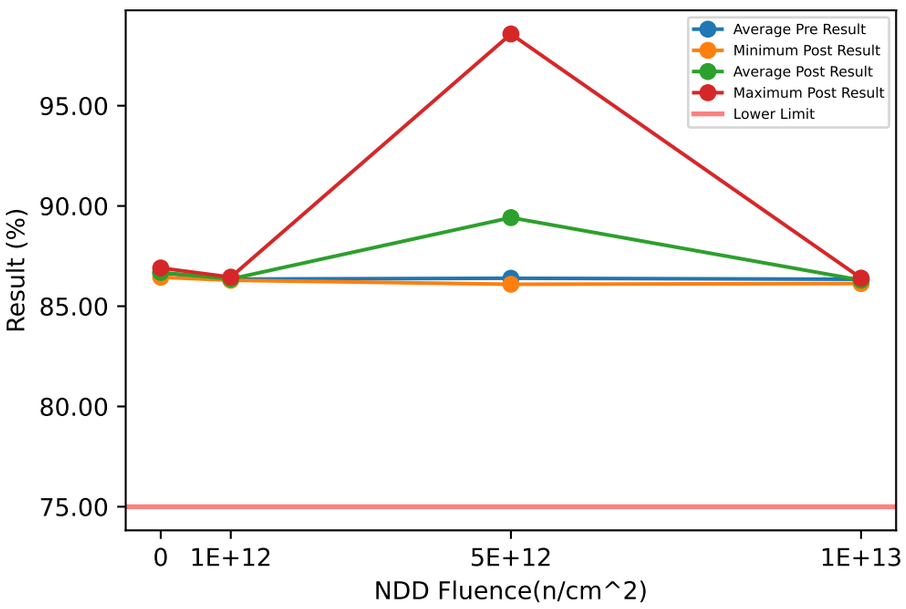
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	99.609	99.614	0.0045
304	1e+12	NDD Unbiased	99.61	99.615	0.005
305	1e+12	NDD Unbiased	99.62	99.624	0.0037
306	1e+12	NDD Unbiased	99.604	99.609	0.0046
307	5e+12	NDD Unbiased	99.609	99.612	0.003
308	5e+12	NDD Unbiased	99.619	99.623	0.004
309	5e+12	NDD Unbiased	99.614	99.619	0.0051
310	5e+12	NDD Unbiased	99.619	99.623	0.0036
311	1e+13	NDD Unbiased	99.606	99.609	0.0039
312	1e+13	NDD Unbiased	99.616	99.617	0.0009
313	1e+13	NDD Unbiased	99.598	99.599	0.0016
314	1e+13	NDD Unbiased	99.612	99.617	0.0049
315	0	Correlation	99.618	99.623	0.0045
316	0	Correlation	99.602	99.606	0.0044
317	0	Correlation	99.617	99.621	0.004

Test Statistics (%)

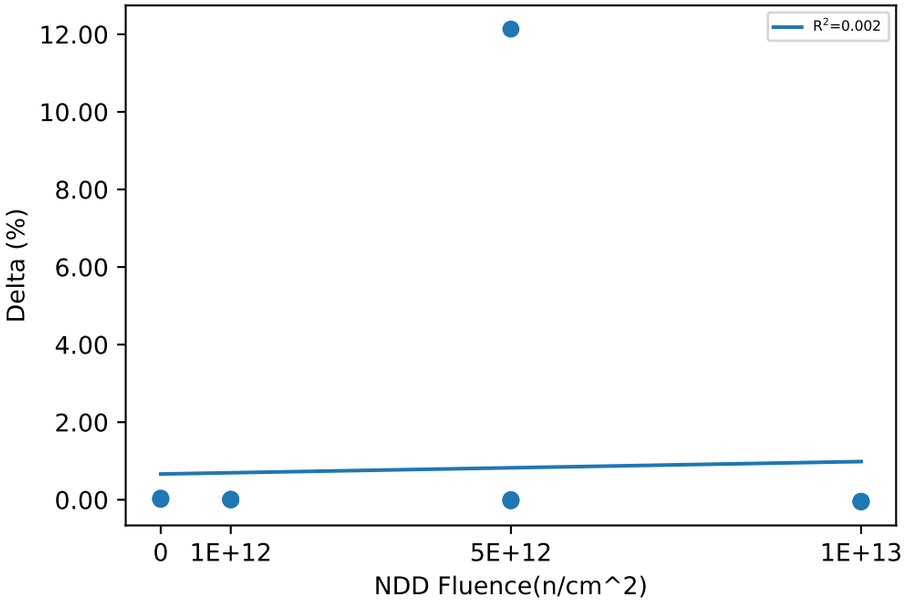
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.602	99.612	99.618	0.0091995	99.606	99.617	99.623	0.0091329	0.004	0.0043	0.0045	0.00026458
1e+12	99.604	99.611	99.62	0.006523	99.609	99.615	99.624	0.0061076	0.0037	0.00445	0.005	0.00054467
5e+12	99.609	99.615	99.619	0.0051266	99.612	99.619	99.623	0.0054252	0.003	0.003925	0.0051	0.00088459
1e+13	99.598	99.608	99.616	0.0080351	99.599	99.611	99.617	0.008298	0.0009	0.002825	0.0049	0.0018857

Device Test: 6.90; VOH_RESET_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 75.0 (%))

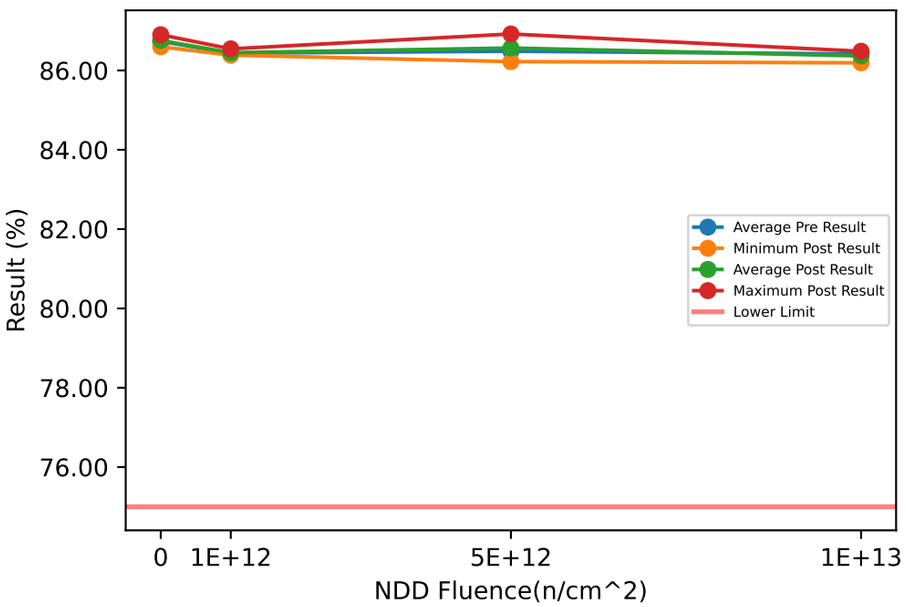
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	86.446	86.449	0.0027
304	1e+12	NDD Unbiased	86.28	86.294	0.0143
305	1e+12	NDD Unbiased	86.295	86.302	0.007
306	1e+12	NDD Unbiased	86.39	86.389	-0.0012
307	5e+12	NDD Unbiased	86.475	86.478	0.0033
308	5e+12	NDD Unbiased	86.122	86.095	-0.0269
309	5e+12	NDD Unbiased	86.537	86.521	-0.0156
310	5e+12	NDD Unbiased	86.443	98.578	12.135
311	1e+13	NDD Unbiased	86.405	86.367	-0.0381
312	1e+13	NDD Unbiased	86.455	86.402	-0.053
313	1e+13	NDD Unbiased	86.177	86.131	-0.0458
314	1e+13	NDD Unbiased	86.341	86.293	-0.0482
315	0	Correlation	86.657	86.699	0.0421
316	0	Correlation	86.422	86.444	0.0217
317	0	Correlation	86.894	86.907	0.0131

Test Statistics (%)

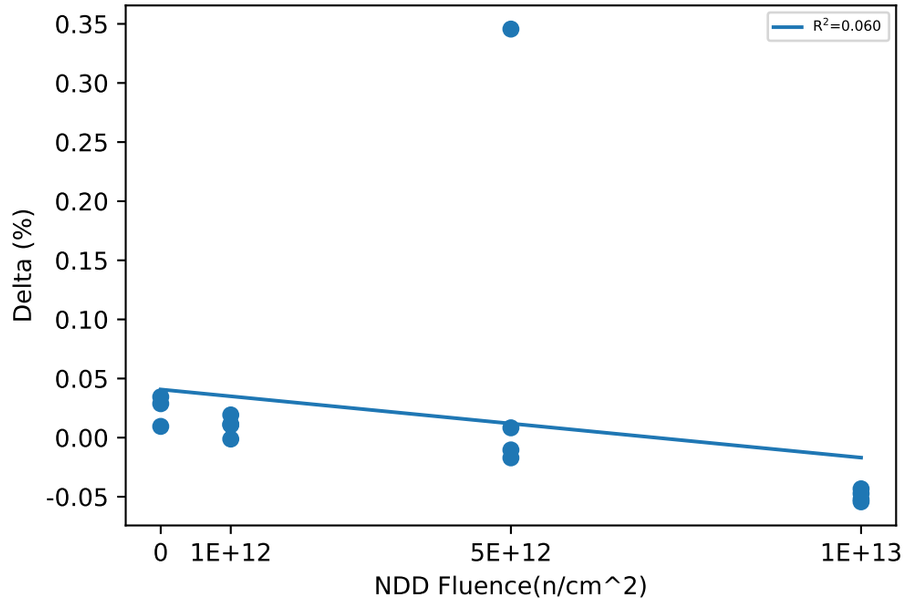
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	86.422	86.658	86.894	0.23605	86.444	86.684	86.907	0.23215	0.0131	0.025633	0.0421	0.014895
1e+12	86.28	86.353	86.446	0.079093	86.294	86.358	86.449	0.073985	-0.0012	0.0057	0.0143	0.0066398
5e+12	86.122	86.394	86.537	0.18556	86.095	89.418	98.578	6.1094	-0.0269	3.0239	12.135	6.0739
1e+13	86.177	86.344	86.455	0.12106	86.131	86.298	86.402	0.12033	-0.053	-0.046275	-0.0381	0.0062179

Device Test: 6.91; VOH_RESET_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



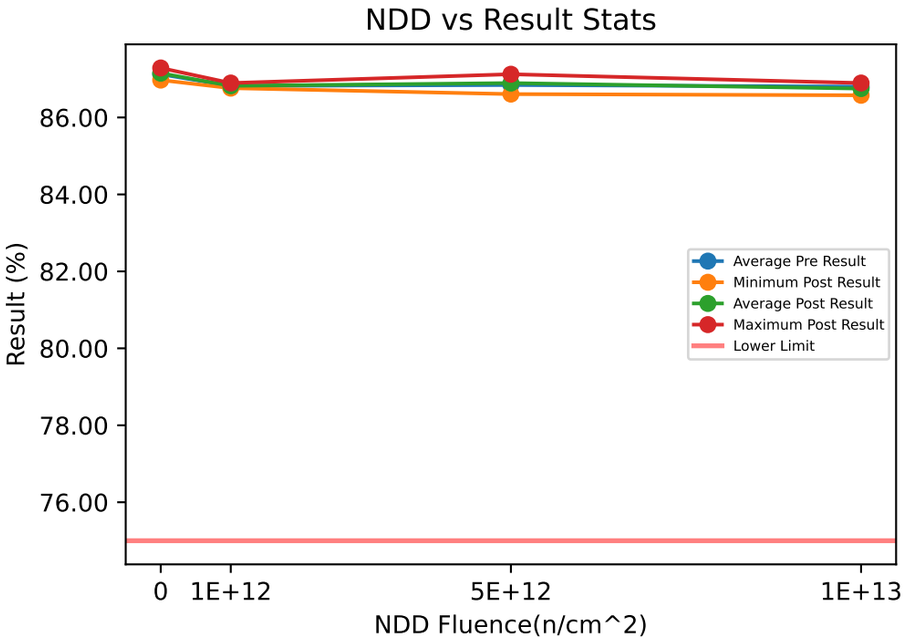
Test Results (Lower Limit = 75.0 (%))

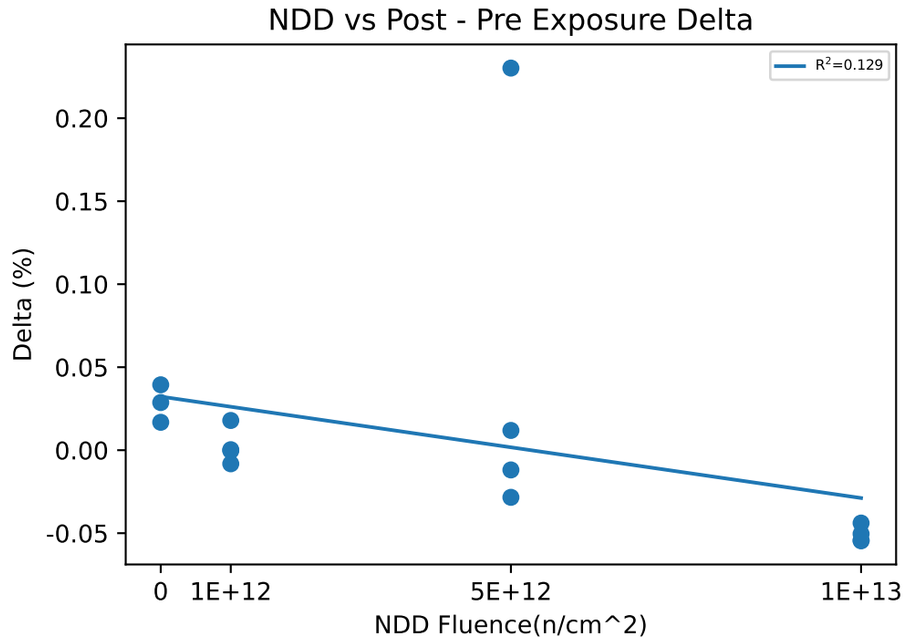
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	86.45	86.46	0.0107
304	1e+12	NDD Unbiased	86.378	86.397	0.0192
305	1e+12	NDD Unbiased	86.375	86.386	0.0113
306	1e+12	NDD Unbiased	86.545	86.544	-0.0012
307	5e+12	NDD Unbiased	86.51	86.519	0.0083
308	5e+12	NDD Unbiased	86.24	86.223	-0.0171
309	5e+12	NDD Unbiased	86.615	86.604	-0.0104
310	5e+12	NDD Unbiased	86.574	86.92	0.3456
311	1e+13	NDD Unbiased	86.527	86.484	-0.0433
312	1e+13	NDD Unbiased	86.489	86.436	-0.0522
313	1e+13	NDD Unbiased	86.24	86.193	-0.0473
314	1e+13	NDD Unbiased	86.403	86.349	-0.0543
315	0	Correlation	86.74	86.774	0.0345
316	0	Correlation	86.568	86.597	0.0287
317	0	Correlation	86.891	86.901	0.0095

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	86.568	86.733	86.891	0.1616	86.597	86.757	86.901	0.1526	0.0095	0.024233	0.0345	0.013085
1e+12	86.375	86.437	86.545	0.079946	86.386	86.447	86.544	0.072423	-0.0012	0.01	0.0192	0.0084115
5e+12	86.24	86.485	86.615	0.1689	86.223	86.566	86.92	0.28687	-0.0171	0.0816	0.3456	0.17633
1e+13	86.24	86.415	86.527	0.12753	86.193	86.366	86.484	0.12807	-0.0543	-0.049275	-0.0433	0.0049466

Device Test: 6.92; VOH_RESET_10MA





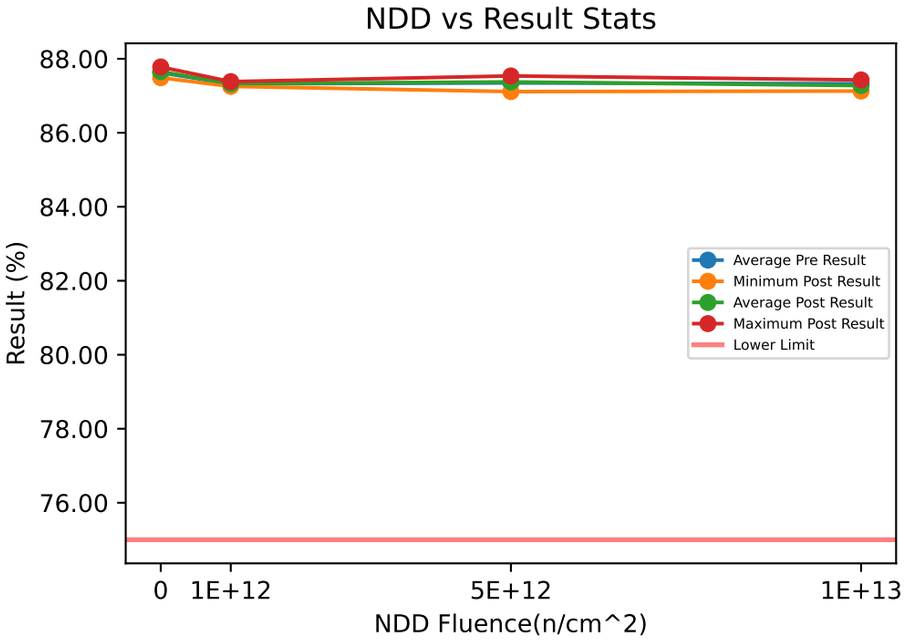
Test Results (Lower Limit = 75.0 (%))

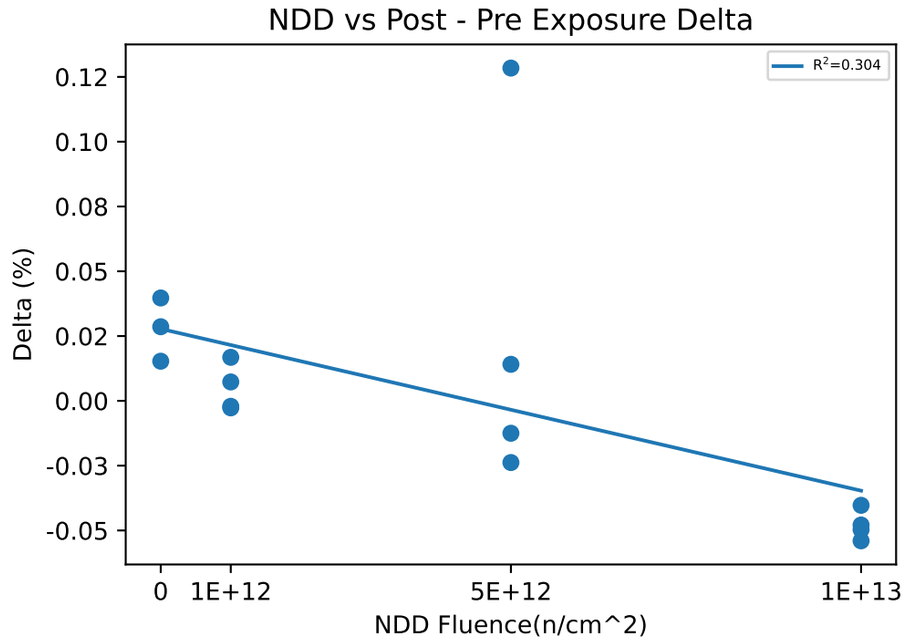
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	86.867	86.867	0.0003
304	1e+12	NDD Unbiased	86.744	86.762	0.0179
305	1e+12	NDD Unbiased	86.764	86.764	-0.0003
306	1e+12	NDD Unbiased	86.903	86.895	-0.0082
307	5e+12	NDD Unbiased	86.903	86.915	0.0119
308	5e+12	NDD Unbiased	86.635	86.607	-0.0284
309	5e+12	NDD Unbiased	86.941	86.929	-0.0119
310	5e+12	NDD Unbiased	86.893	87.123	0.2302
311	1e+13	NDD Unbiased	86.939	86.895	-0.0439
312	1e+13	NDD Unbiased	86.867	86.817	-0.0504
313	1e+13	NDD Unbiased	86.631	86.577	-0.0546
314	1e+13	NDD Unbiased	86.769	86.715	-0.0543
315	0	Correlation	87.154	87.193	0.0394
316	0	Correlation	86.943	86.971	0.0287
317	0	Correlation	87.269	87.286	0.0168

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	86.943	87.122	87.269	0.16563	86.971	87.15	87.286	0.16172	0.0168	0.0283	0.0394	0.011305
1e+12	86.744	86.82	86.903	0.07723	86.762	86.822	86.895	0.068923	-0.0082	0.002425	0.0179	0.01102
5e+12	86.635	86.843	86.941	0.1398	86.607	86.893	87.123	0.21335	-0.0284	0.05045	0.2302	0.12097
1e+13	86.631	86.801	86.939	0.13311	86.577	86.751	86.895	0.13748	-0.0546	-0.0508	-0.0439	0.004982

Device Test: 6.93; VOH_RESET_10MA





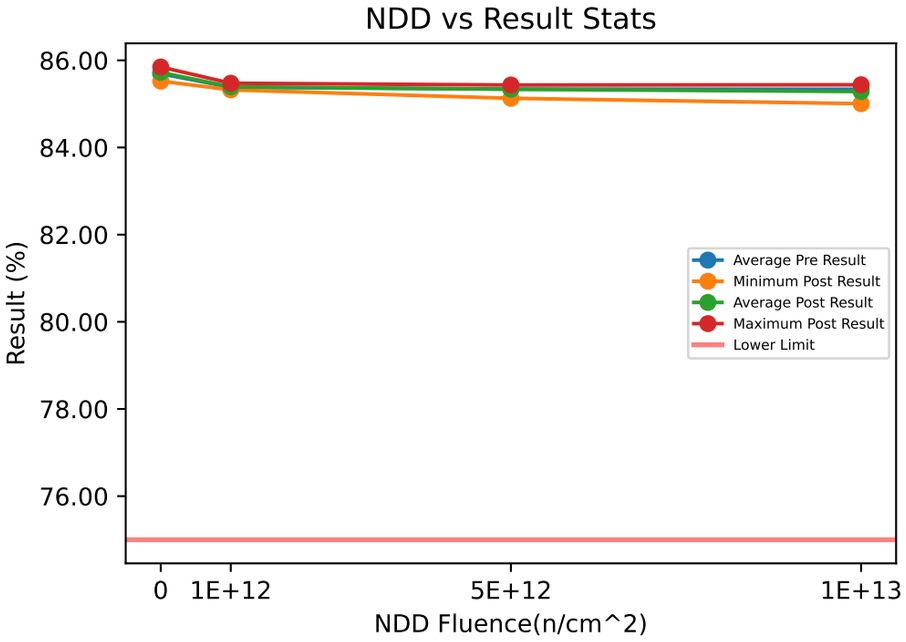
Test Results (Lower Limit = 75.0 (%))

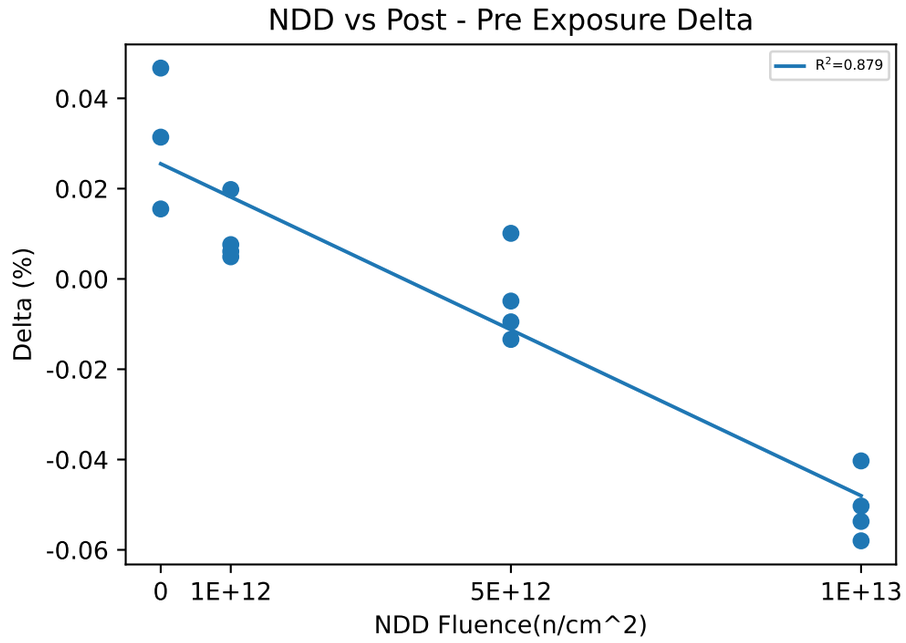
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	87.386	87.383	-0.0027
304	1e+12	NDD Unbiased	87.29	87.307	0.0168
305	1e+12	NDD Unbiased	87.247	87.254	0.0073
306	1e+12	NDD Unbiased	87.369	87.367	-0.0021
307	5e+12	NDD Unbiased	87.404	87.418	0.0141
308	5e+12	NDD Unbiased	87.137	87.113	-0.0238
309	5e+12	NDD Unbiased	87.442	87.43	-0.0125
310	5e+12	NDD Unbiased	87.408	87.536	0.1284
311	1e+13	NDD Unbiased	87.469	87.428	-0.0403
312	1e+13	NDD Unbiased	87.341	87.292	-0.0497
313	1e+13	NDD Unbiased	87.176	87.128	-0.0479
314	1e+13	NDD Unbiased	87.309	87.255	-0.054
315	0	Correlation	87.65	87.689	0.0397
316	0	Correlation	87.46	87.488	0.0286
317	0	Correlation	87.763	87.779	0.0153

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	87.46	87.624	87.763	0.15348	87.488	87.652	87.779	0.14879	0.0153	0.027867	0.0397	0.012217
1e+12	87.247	87.323	87.386	0.065402	87.254	87.328	87.383	0.058737	-0.0027	0.004825	0.0168	0.0092034
5e+12	87.137	87.348	87.442	0.1417	87.113	87.374	87.536	0.1821	-0.0238	0.02655	0.1284	0.069734
1e+13	87.176	87.324	87.469	0.12033	87.128	87.276	87.428	0.12364	-0.054	-0.047975	-0.0403	0.0057209

Device Test: 6.94; VOH_WDO_10MA





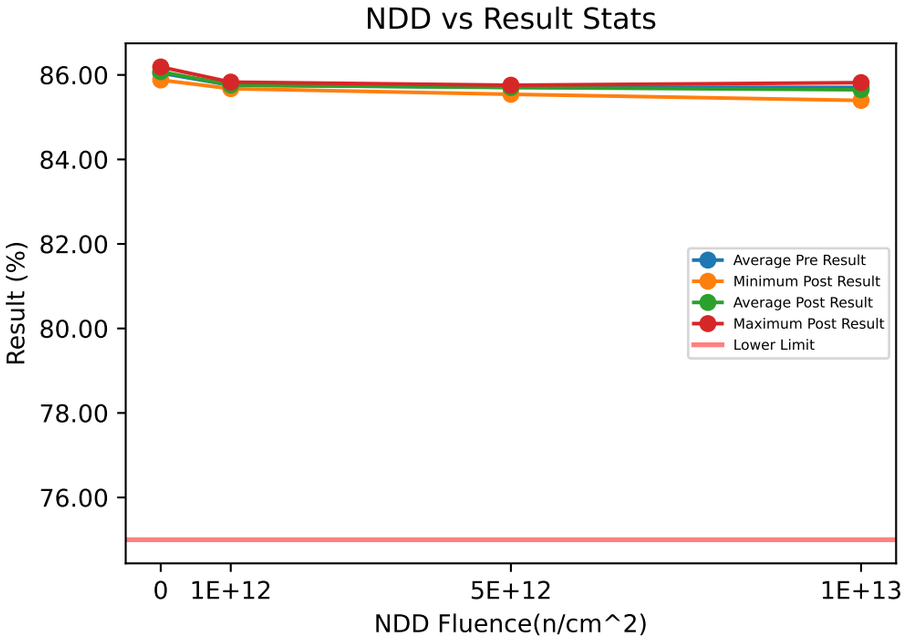
Test Results (Lower Limit = 75.0 (%))

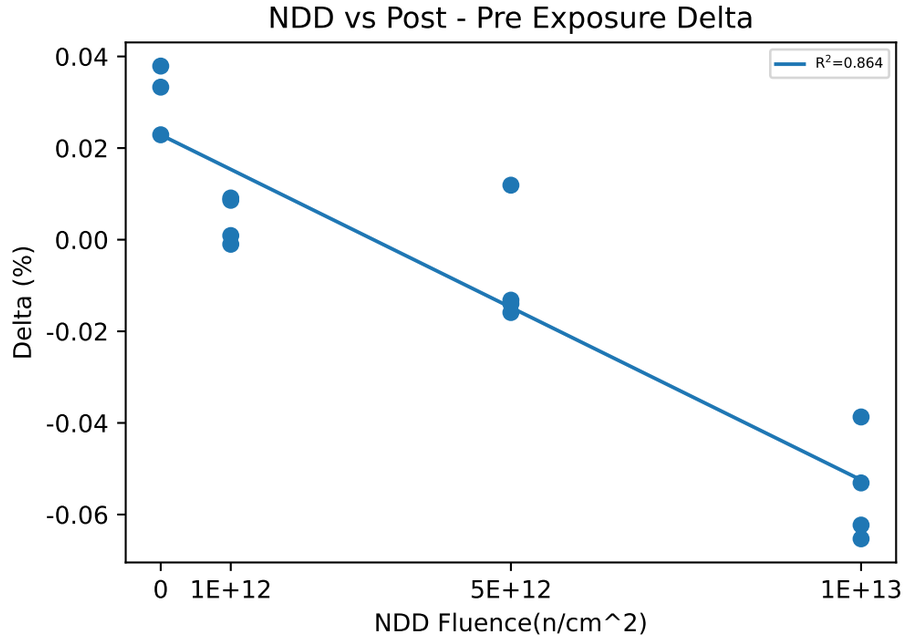
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	85.425	85.433	0.0076
304	1e+12	NDD Unbiased	85.302	85.322	0.0198
305	1e+12	NDD Unbiased	85.333	85.338	0.0049
306	1e+12	NDD Unbiased	85.469	85.475	0.0061
307	5e+12	NDD Unbiased	85.392	85.402	0.0101
308	5e+12	NDD Unbiased	85.142	85.129	-0.0134
309	5e+12	NDD Unbiased	85.438	85.433	-0.0049
310	5e+12	NDD Unbiased	85.388	85.379	-0.0095
311	1e+13	NDD Unbiased	85.479	85.439	-0.0403
312	1e+13	NDD Unbiased	85.419	85.361	-0.058
313	1e+13	NDD Unbiased	85.059	85.005	-0.0537
314	1e+13	NDD Unbiased	85.38	85.33	-0.0503
315	0	Correlation	85.753	85.8	0.0467
316	0	Correlation	85.492	85.523	0.0314
317	0	Correlation	85.832	85.847	0.0155

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	85.492	85.692	85.832	0.17803	85.523	85.723	85.847	0.17505	0.0155	0.0312	0.0467	0.015601
1e+12	85.302	85.382	85.469	0.077878	85.322	85.392	85.475	0.073911	0.0049	0.0096	0.0198	0.0068891
5e+12	85.142	85.34	85.438	0.13403	85.129	85.336	85.433	0.13988	-0.0134	-0.004425	0.0101	0.010288
1e+13	85.059	85.334	85.479	0.18796	85.005	85.284	85.439	0.19116	-0.058	-0.050575	-0.0403	0.0075398

Device Test: 6.95; VOH_PWRGD_10MA





Test Results (Lower Limit = 75.0 (%))

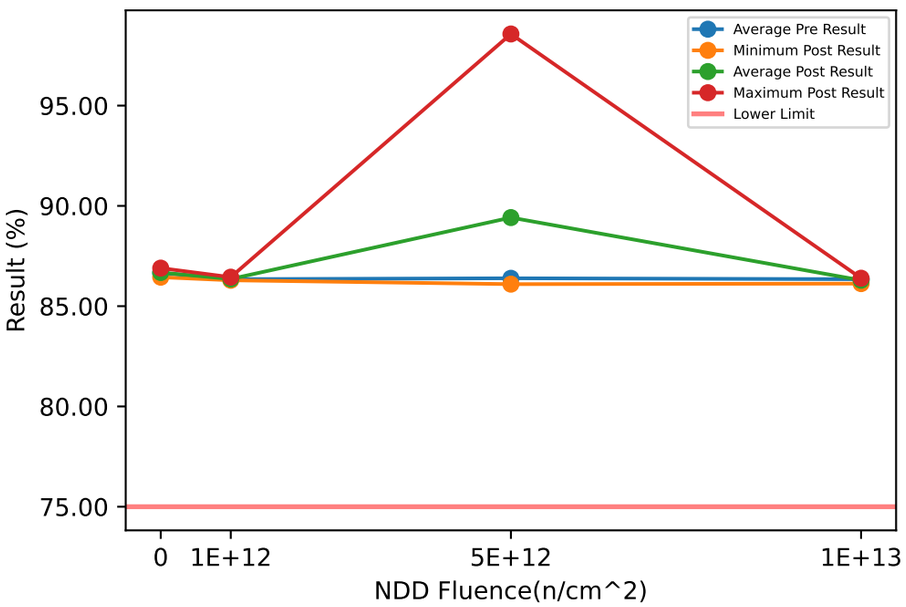
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	85.829	85.83	0.0009
304	1e+12	NDD Unbiased	85.71	85.719	0.0091
305	1e+12	NDD Unbiased	85.675	85.674	-0.001
306	1e+12	NDD Unbiased	85.809	85.818	0.0086
307	5e+12	NDD Unbiased	85.738	85.75	0.0119
308	5e+12	NDD Unbiased	85.555	85.541	-0.014
309	5e+12	NDD Unbiased	85.772	85.756	-0.0159
310	5e+12	NDD Unbiased	85.77	85.757	-0.0132
311	1e+13	NDD Unbiased	85.856	85.817	-0.0387
312	1e+13	NDD Unbiased	85.784	85.721	-0.0623
313	1e+13	NDD Unbiased	85.462	85.396	-0.0653
314	1e+13	NDD Unbiased	85.713	85.66	-0.0531
315	0	Correlation	86.123	86.161	0.0379
316	0	Correlation	85.846	85.879	0.0333
317	0	Correlation	86.165	86.188	0.0229

Test Statistics (%)

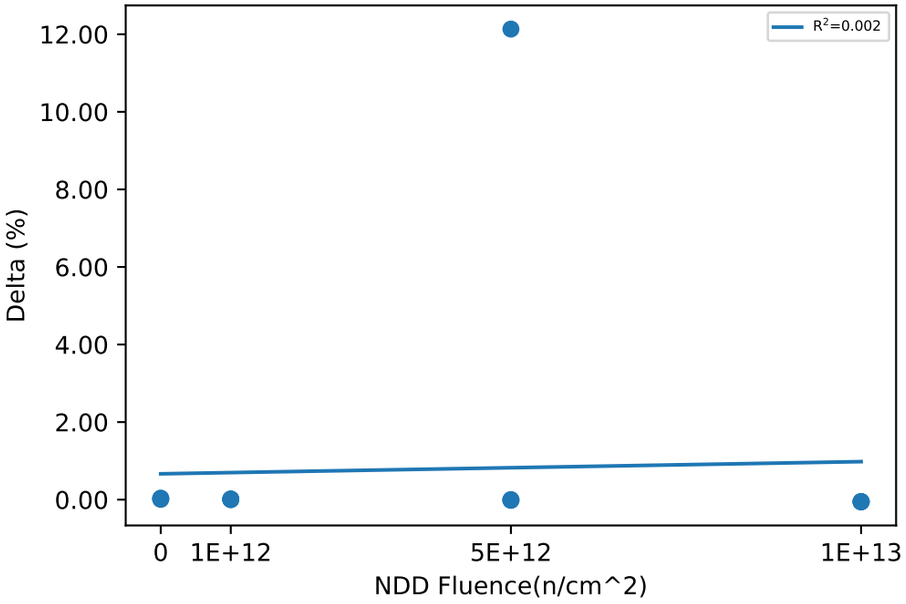
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	85.846	86.045	86.165	0.17332	85.879	86.076	86.188	0.1709	0.0229	0.031367	0.0379	0.0076846
1e+12	85.675	85.756	85.829	0.074828	85.674	85.76	85.83	0.07585	-0.001	0.0044	0.0091	0.0052006
5e+12	85.555	85.709	85.772	0.10352	85.541	85.701	85.757	0.10653	-0.0159	-0.0078	0.0119	0.013182
1e+13	85.462	85.704	85.856	0.1716	85.396	85.649	85.817	0.18036	-0.0653	-0.05485	-0.0387	0.011953

Device Test: 6.96; VOH_RESET_10MA

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



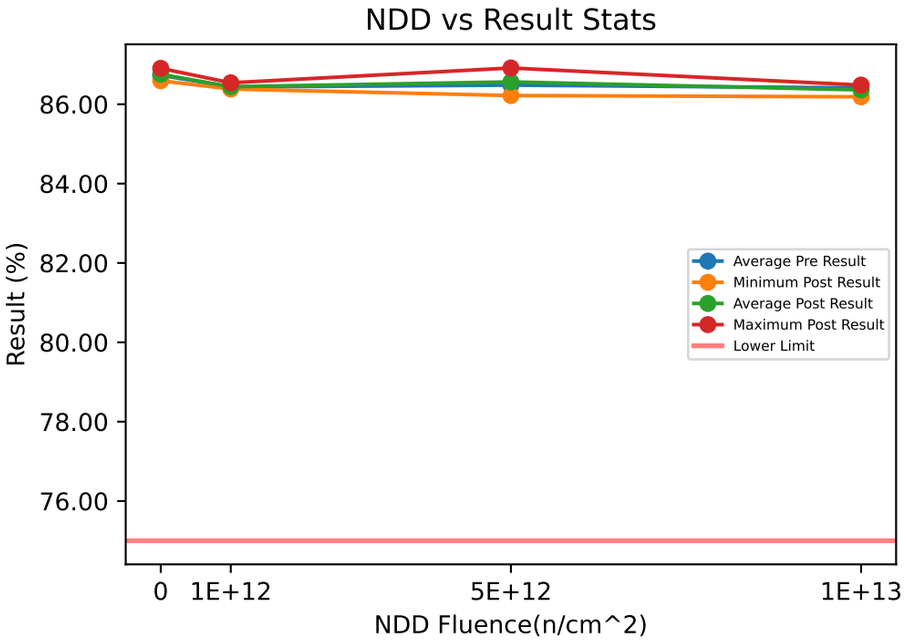
Test Results (Lower Limit = 75.0 (%))

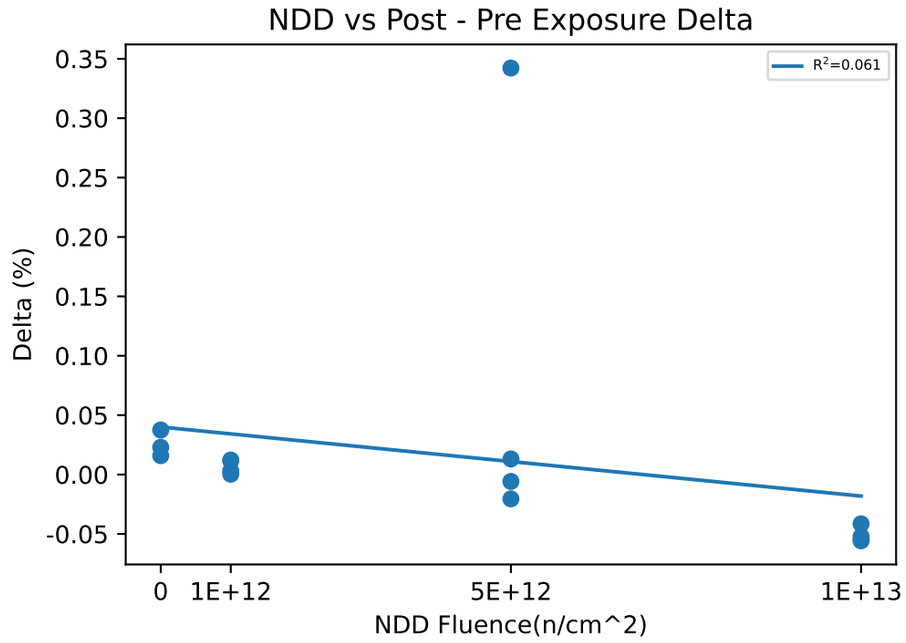
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	86.439	86.446	0.0076
304	1e+12	NDD Unbiased	86.272	86.291	0.0189
305	1e+12	NDD Unbiased	86.288	86.296	0.0073
306	1e+12	NDD Unbiased	86.385	86.386	0.0003
307	5e+12	NDD Unbiased	86.475	86.476	0.0009
308	5e+12	NDD Unbiased	86.115	86.097	-0.0174
309	5e+12	NDD Unbiased	86.532	86.521	-0.0107
310	5e+12	NDD Unbiased	86.438	98.572	12.134
311	1e+13	NDD Unbiased	86.408	86.36	-0.0479
312	1e+13	NDD Unbiased	86.45	86.394	-0.0559
313	1e+13	NDD Unbiased	86.176	86.124	-0.0522
314	1e+13	NDD Unbiased	86.343	86.287	-0.0558
315	0	Correlation	86.653	86.692	0.039
316	0	Correlation	86.42	86.444	0.0238
317	0	Correlation	86.889	86.897	0.0083

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	86.42	86.654	86.889	0.23465	86.444	86.678	86.897	0.22724	0.0083	0.0237	0.039	0.01535
1e+12	86.272	86.346	86.439	0.079409	86.291	86.355	86.446	0.075009	0.0003	0.008525	0.0189	0.0076952
5e+12	86.115	86.39	86.532	0.18745	86.097	89.417	98.572	6.1063	-0.0174	3.0267	12.134	6.0714
1e+13	86.176	86.344	86.45	0.12048	86.124	86.291	86.394	0.12024	-0.0559	-0.05295	-0.0479	0.0037811

Device Test: 6.97; VOH_RESET_10MA





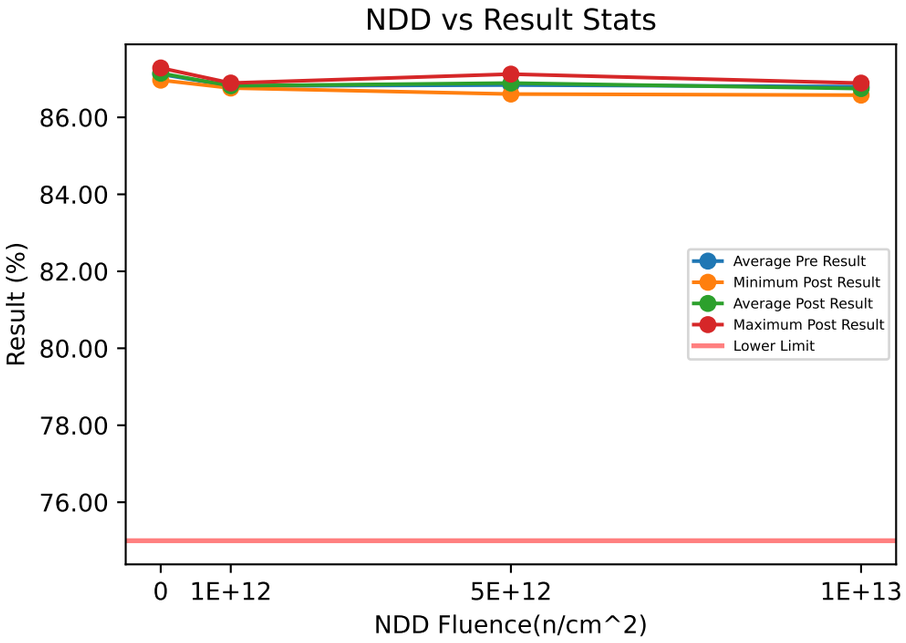
Test Results (Lower Limit = 75.0 (%))

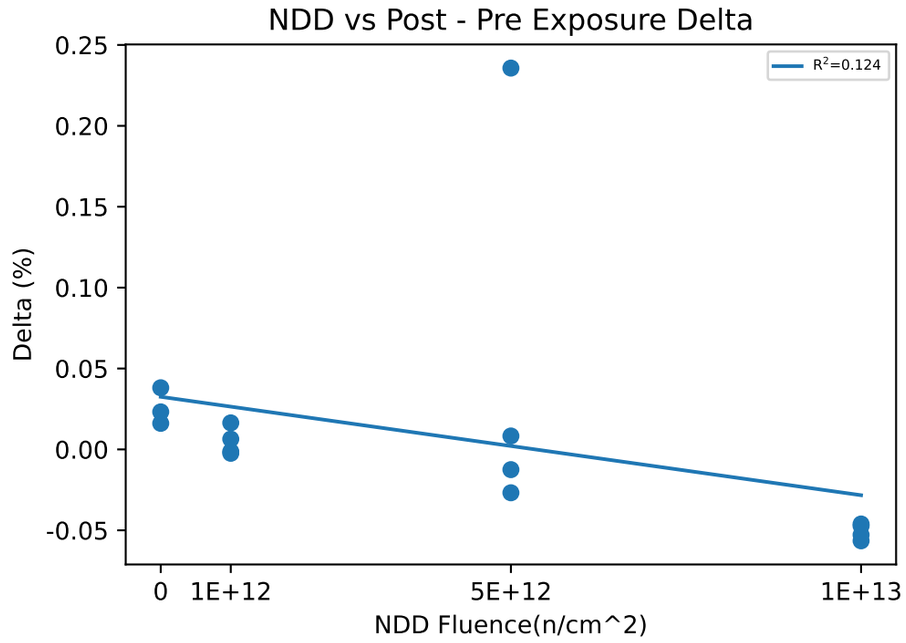
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	86.45	86.453	0.0031
304	1e+12	NDD Unbiased	86.379	86.391	0.0122
305	1e+12	NDD Unbiased	86.372	86.383	0.0116
306	1e+12	NDD Unbiased	86.54	86.541	0.0003
307	5e+12	NDD Unbiased	86.502	86.516	0.0131
308	5e+12	NDD Unbiased	86.239	86.219	-0.0205
309	5e+12	NDD Unbiased	86.61	86.604	-0.0058
310	5e+12	NDD Unbiased	86.572	86.914	0.3422
311	1e+13	NDD Unbiased	86.524	86.483	-0.0415
312	1e+13	NDD Unbiased	86.484	86.428	-0.0558
313	1e+13	NDD Unbiased	86.24	86.188	-0.0522
314	1e+13	NDD Unbiased	86.4	86.346	-0.0546
315	0	Correlation	86.733	86.771	0.0375
316	0	Correlation	86.569	86.592	0.0229
317	0	Correlation	86.889	86.905	0.0159

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	86.569	86.73	86.889	0.16002	86.592	86.756	86.905	0.15704	0.0159	0.025433	0.0375	0.011021
1e+12	86.372	86.435	86.54	0.078533	86.383	86.442	86.541	0.072833	0.0003	0.0068	0.0122	0.0060039
5e+12	86.239	86.481	86.61	0.16715	86.219	86.563	86.914	0.28614	-0.0205	0.08225	0.3422	0.17384
1e+13	86.24	86.412	86.524	0.12584	86.188	86.361	86.483	0.12854	-0.0558	-0.051025	-0.0415	0.006524

Device Test: 6.98; VOH_RESET_10MA





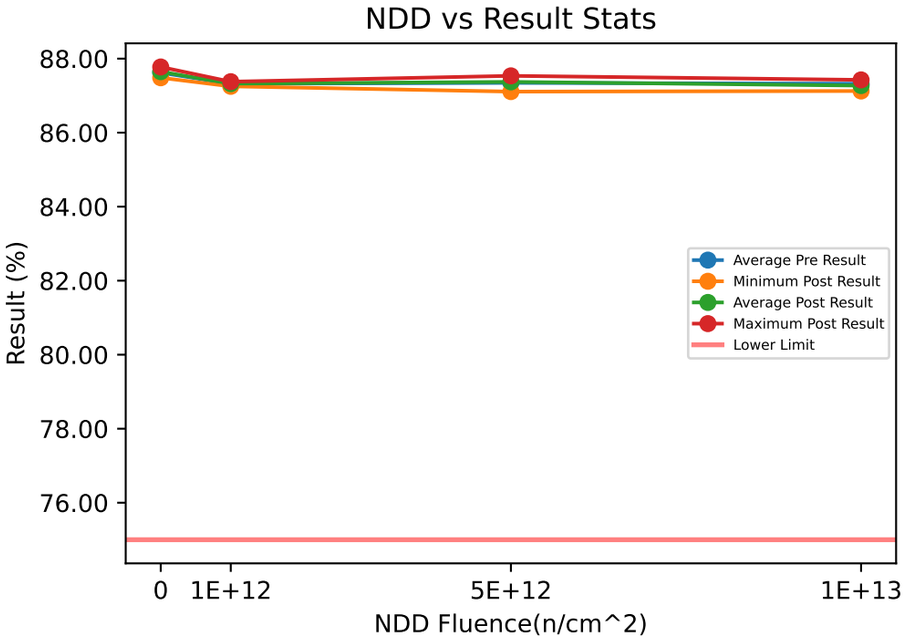
Test Results (Lower Limit = 75.0 (%))

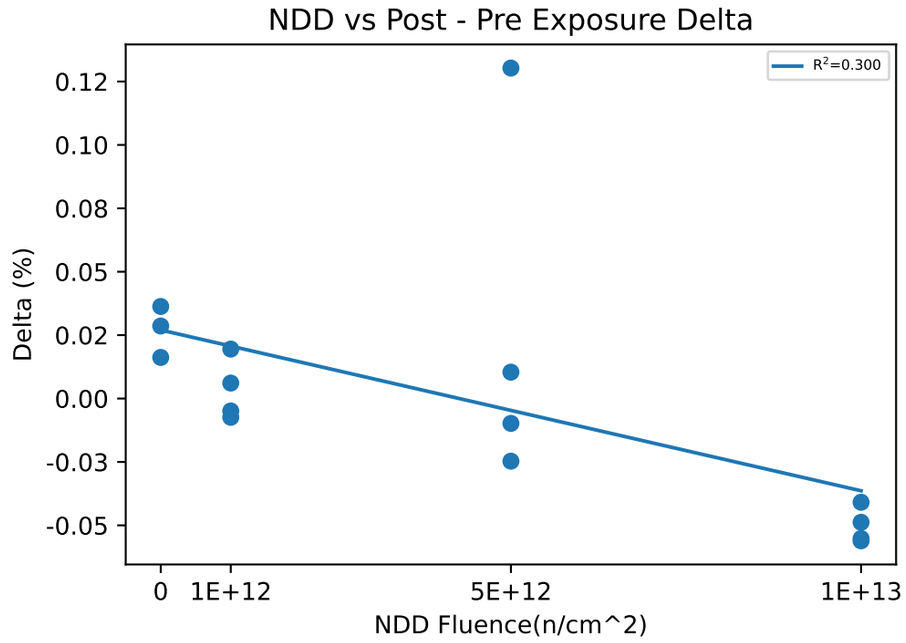
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	86.861	86.86	-0.0013
304	1e+12	NDD Unbiased	86.745	86.761	0.0164
305	1e+12	NDD Unbiased	86.759	86.765	0.0064
306	1e+12	NDD Unbiased	86.894	86.891	-0.0024
307	5e+12	NDD Unbiased	86.902	86.91	0.0083
308	5e+12	NDD Unbiased	86.632	86.605	-0.0268
309	5e+12	NDD Unbiased	86.936	86.924	-0.0125
310	5e+12	NDD Unbiased	86.887	87.123	0.2357
311	1e+13	NDD Unbiased	86.935	86.889	-0.0461
312	1e+13	NDD Unbiased	86.867	86.811	-0.0565
313	1e+13	NDD Unbiased	86.624	86.577	-0.0473
314	1e+13	NDD Unbiased	86.764	86.711	-0.0528
315	0	Correlation	87.15	87.188	0.0381
316	0	Correlation	86.943	86.966	0.0232
317	0	Correlation	87.266	87.283	0.0161

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	86.943	87.12	87.266	0.16387	86.966	87.146	87.283	0.16243	0.0161	0.0258	0.0381	0.011228
1e+12	86.745	86.814	86.894	0.073891	86.761	86.819	86.891	0.066091	-0.0024	0.004775	0.0164	0.0086827
5e+12	86.632	86.839	86.936	0.13987	86.605	86.891	87.123	0.21378	-0.0268	0.051175	0.2357	0.12386
1e+13	86.624	86.798	86.935	0.13528	86.577	86.747	86.889	0.13465	-0.0565	-0.050675	-0.0461	0.0048569

Device Test: 6.99; VOH_RESET_10MA





Test Results (Lower Limit = 75.0 (%))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
303	1e+12	NDD Unbiased	87.382	87.377	-0.0049
304	1e+12	NDD Unbiased	87.286	87.306	0.0195
305	1e+12	NDD Unbiased	87.246	87.252	0.0061
306	1e+12	NDD Unbiased	87.37	87.363	-0.0074
307	5e+12	NDD Unbiased	87.404	87.414	0.0104
308	5e+12	NDD Unbiased	87.134	87.109	-0.0247
309	5e+12	NDD Unbiased	87.438	87.428	-0.0098
310	5e+12	NDD Unbiased	87.405	87.535	0.1303
311	1e+13	NDD Unbiased	87.467	87.426	-0.0409
312	1e+13	NDD Unbiased	87.339	87.284	-0.0552
313	1e+13	NDD Unbiased	87.174	87.125	-0.0488
314	1e+13	NDD Unbiased	87.306	87.25	-0.0561
315	0	Correlation	87.647	87.683	0.0363
316	0	Correlation	87.454	87.483	0.0286
317	0	Correlation	87.758	87.775	0.0162

Test Statistics (%)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	87.454	87.62	87.758	0.15383	87.483	87.647	87.775	0.14919	0.0162	0.027033	0.0363	0.010141
1e+12	87.246	87.321	87.382	0.065992	87.252	87.324	87.377	0.057477	-0.0074	0.003325	0.0195	0.012275
5e+12	87.134	87.345	87.438	0.14185	87.109	87.372	87.535	0.1832	-0.0247	0.02655	0.1303	0.070646
1e+13	87.174	87.322	87.467	0.12034	87.125	87.271	87.426	0.12367	-0.0561	-0.05025	-0.0409	0.0070297

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Last updated 10/2025