

TPS7H4011 Plastic Neutron Displacement Damage (NDD) Characterization Report



ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the Texas Instruments TPS7H4011 plastic. The TPS7H4011 plastic showed a strong degree of hardness to neutron irradiation up to fluence level 1×10^{13} n/cm².

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	2
1.1 Product Description.....	2
1.2 Device Details.....	2
2 Total Dose Test Setup	3
2.1 Test Overview.....	3
2.2 Test Facility.....	3
2.3 Test Setup Details.....	3
2.4 Test Configuration and Condition.....	3
3 NDD Characterization Test Results	4
3.1 NDD Characterization Summary.....	4
3.2 Data Sheet Electrical Parameter Characteristics.....	4
4 Applicable and Reference Documents	11
4.1 Applicable Documents.....	11
4.2 Reference Documents.....	11
A Appendix: NDD Report Data	11
B Revision History	12

List of Figures

Figure 1-1. TPS7H4011-SP Device.....	2
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List of Tables

Table 1-1. Device and Exposure Details.....	2
Table 2-1. Neutron Irradiation Conditions.....	3
Table 3-1. Data Sheet Electrical Parameter Characteristics.....	4
Table 3-2. Data Sheet Electrical Parameter Characteristics - Plastic (HTSSOP) Package.....	9
Table A-1. Decoder Implementation, Example Test: IDD STATIC VIN/14////@VIN_SHDN_CURR_14V.....	11

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1 Device Information

1.1 Product Description

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

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

1.2 Device Details

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

Table 1-1. Device and Exposure Details

NDD Exposure Details	
TI Device	TPS7H4011-SP
TI Part Name	5962R2122102PYE
Package	44-pin DDW (HTSSOP)
Technology	Linear BiCMOS (LBC7)
Lot Number / Date Code	5391975/56AVQ2K
Sample Quantity	12+4 control unit
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 (25°C)



Figure 1-1. TPS7H4011-SP Device

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 TPS7H4011-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 Facility

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 1E11 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/cm², 5.0×10^{12} n/cm² and 1.0×10^{13} n/cm². See the details in the following table.

2.4 Test Configuration and Condition

Table 2-1. Neutron Irradiation Conditions

GROUP	SAMPLE QTY	NEUTRON FLUENCE (n/cm ²)	BIAS
A	4	1.0×10^{12}	Unbiased
B	4	5.0×10^{12}	Unbiased
C	4	1.0×10^{13}	Unbiased
Control Units	4	N/A	N/A

3 NDD Characterization Test Results

3.1 NDD Characterization Summary

The results show that all devices were fully functional and within specification limits. A sample size of twelve units was exposed for neutron irradiation and an additional four unirradiated control units were used as correlation. Overall, the TPS7H4011-SP showed a strong degree of hardness to neutron irradiation up to fluence level $1 \times 10^{13} \text{n/cm}^2$. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each fluence level.

The parameters that 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 [Table 3-1](#) for 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 $1 \times 10^{13} \text{n/cm}^2$.

3.2 Data Sheet Electrical Parameter Characteristics

Over $4.5\text{V} \leq \text{VIN} \leq 14\text{V}$, $\text{PVIN} = \text{VIN}$, $\text{VSNS-} = 0\text{V}$, open loop configuration, $\text{IOUT} = 0\text{A}$, $\text{TA} = 25^\circ\text{C}$, unless otherwise noted.

Table 3-1. Data Sheet Electrical Parameter Characteristics

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

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

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

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

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

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

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

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

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

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

PARAMETER		TEST CONDITIONS	SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS	
$V_{IN_MIN_PWRGD}$ D	Minimum VIN for valid PWRGD output	Measured when $V_{PWRGD} \leq 0.5V$ at 100 μ A	1, 2, 3		1	2	V	23.1	
$T_{SD(enter)}$	Thermal shutdown enter temperature				170		°C		
$T_{SD(exit)}$	Thermal shutdown exit temperature				135				
$T_{SD(HYS)}$	Thermal shutdown hysteresis				35				
MOSFET									
$R_{DS_ON_HS}$	High-side switch resistance at $I_{HS} = 12A$ (lead length $\approx 3mm$)	$P_{VIN} = V_{IN} = 4.5V$	$T_A = -55^\circ C$	3		38	53	m Ω	20.2,20.3
			$T_A = 25^\circ C$	1		50	61		
			$T_A = 125^\circ C$	2		64	79		
		$P_{VIN} = V_{IN} = 5V$	$T_A = -55^\circ C$	3		36	50		20.36, 20.37
			$T_A = 25^\circ C$	1		48	60		
			$T_A = 125^\circ C$	2		62	73		
		$P_{VIN} = V_{IN} = 12V$	$T_A = -55^\circ C$	3		34	45		20.70, 20.71
			$T_A = 25^\circ C$	1		45	53		
			$T_A = 125^\circ C$	2		59	67		
		$P_{VIN} = V_{IN} = 14V$	$T_A = -55^\circ C$	3		34	45		20.104,20.105
			$T_A = 25^\circ C$	1		45	53		
			$T_A = 125^\circ C$	2		59	67		
$R_{DS_ON_LS}$	Low-side switch resistance at $I_{LS} = 12A$ (lead length $\approx 3mm$)	$P_{VIN} = V_{IN} = 4.5V$	$T_A = -55^\circ C$	3		25	40	m Ω	21.2,21.3
			$T_A = 25^\circ C$	1		35	51		
			$T_A = 125^\circ C$	2		51	61		
		$P_{VIN} = V_{IN} = 5V$	$T_A = -55^\circ C$	3		23	35		21.8,21.9
			$T_A = 25^\circ C$	1		33	45		
			$T_A = 125^\circ C$	2		48	56		
		$P_{VIN} = V_{IN} = 12V$	$T_A = -55^\circ C$	3		23	32		21.14, 21.15
			$T_A = 25^\circ C$	1		33	42		
			$T_A = 125^\circ C$	2		47	55		
		$P_{VIN} = V_{IN} = 14V$	$T_A = -55^\circ C$	3		23	32		21.20, 21.21
			$T_A = 25^\circ C$	1		33	42		
			$T_A = 125^\circ C$	2		47	55		

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

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

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

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

4 Applicable and Reference Documents

4.1 Applicable Documents

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

4.2 Reference Documents

Texas Instruments neutron irradiation test follow the guideline from MIL-STD-883 TM 1017. The document is available in the Defense Logistic Agency's website.

A Appendix: NDD Report Data

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

NCAT|HEADER/PIN/V_VIN/I_LOAD/R_RT/CONDITION/@SPEC_ID_PARM

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

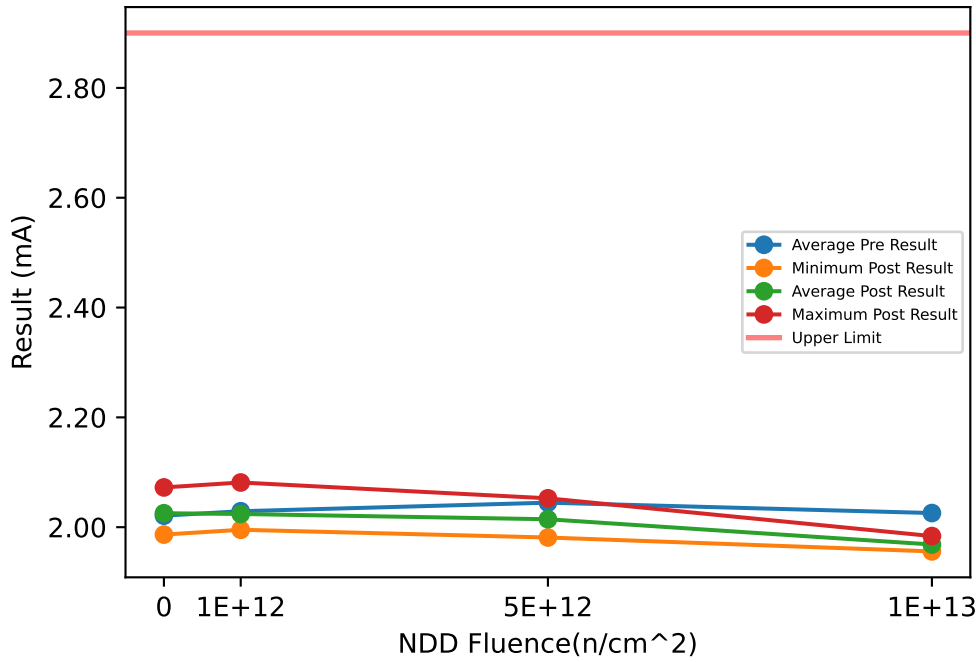
Table A-1. Decoder Implementation, Example Test: IDD|STATIC/VIN/14////@VIN_SHDN_CURR_14V

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

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

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

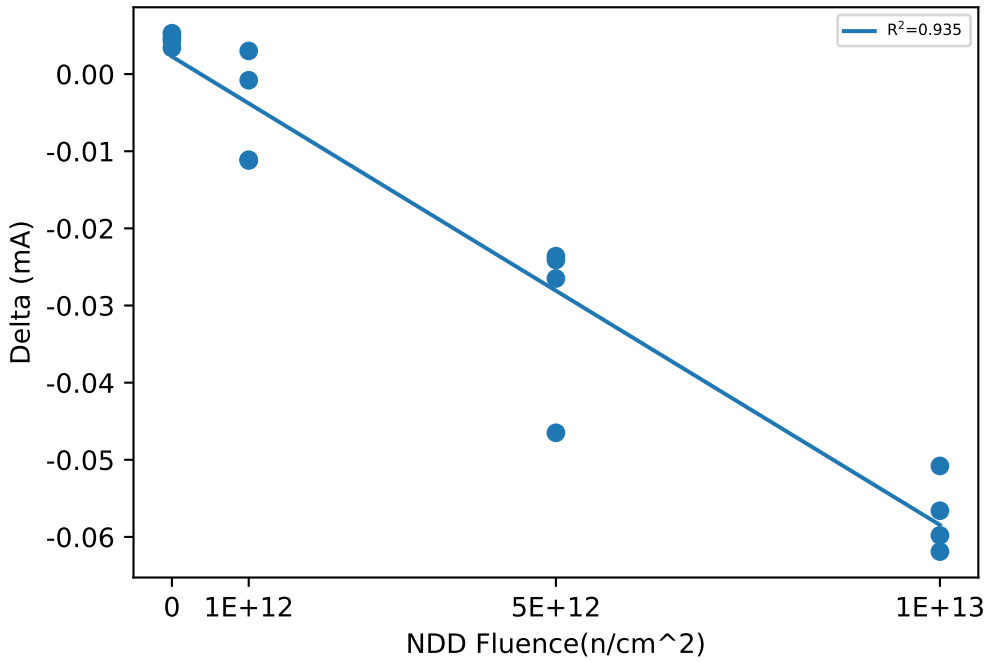
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	2.0308	2.0196	-0.0112
101	1e+12	NDD	2.0925	2.0814	-0.0111
102	1e+12	NDD	1.9968	1.9998	0.003
103	1e+12	NDD	1.9961	1.9953	-0.0008
104	5e+12	NDD	2.05	2.0235	-0.0265
105	5e+12	NDD	2.047	2.0005	-0.0465
106	5e+12	NDD	2.0048	1.9812	-0.0236
107	5e+12	NDD	2.0767	2.0526	-0.0241
108	1e+13	NDD	2.0398	1.9779	-0.0619
109	1e+13	NDD	2.0436	1.9838	-0.0598
110	1e+13	NDD	2.0125	1.9559	-0.0566
111	1e+13	NDD	2.0071	1.9563	-0.0508
732	0	CORRELATION	1.9925	1.9968	0.0043
742	0	CORRELATION	1.9818	1.9865	0.0047
879	0	CORRELATION	2.0425	2.0459	0.0034
880	0	CORRELATION	2.0671	2.0724	0.0053

NDD vs Post - Pre Exposure Delta

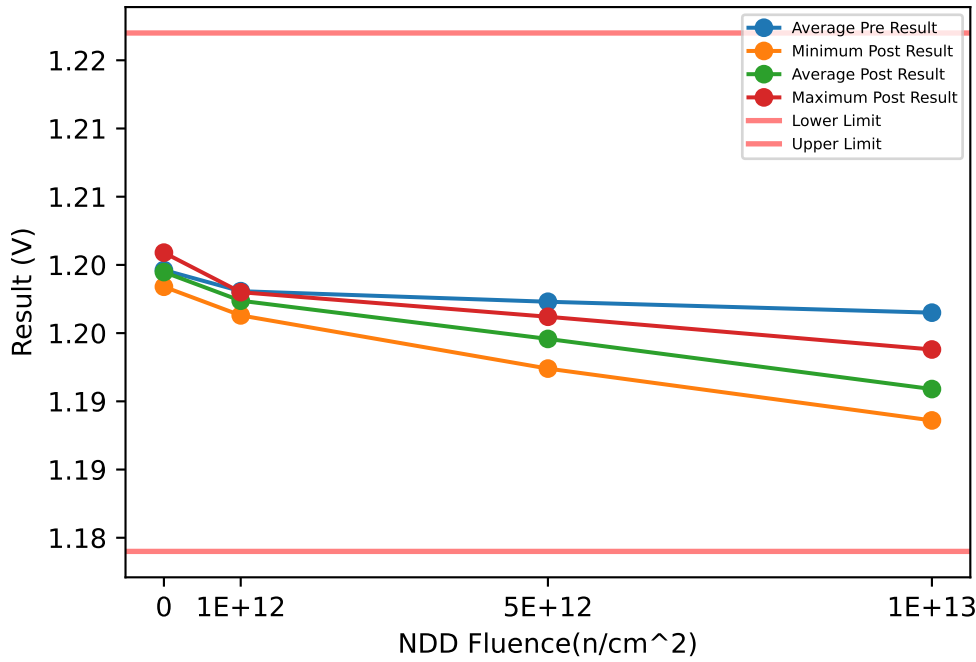


Test Statistics (mA)

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	1.9818	2.021	2.0671	0.040564	1.9865	2.0254	2.0724	0.040663	0.0034	0.004425	0.0053	0.00079739
1e+12	1.9961	2.029	2.0925	0.045294	1.9953	2.024	2.0814	0.03968	-0.0112	-0.005025	0.003	0.0072408
5e+12	2.0048	2.0446	2.0767	0.029717	1.9812	2.0145	2.0526	0.030754	-0.0465	-0.030175	-0.0236	0.010957
1e+13	2.0071	2.0257	2.0436	0.018614	1.9559	1.9685	1.9838	0.014492	-0.0619	-0.057275	-0.0508	0.0048355

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

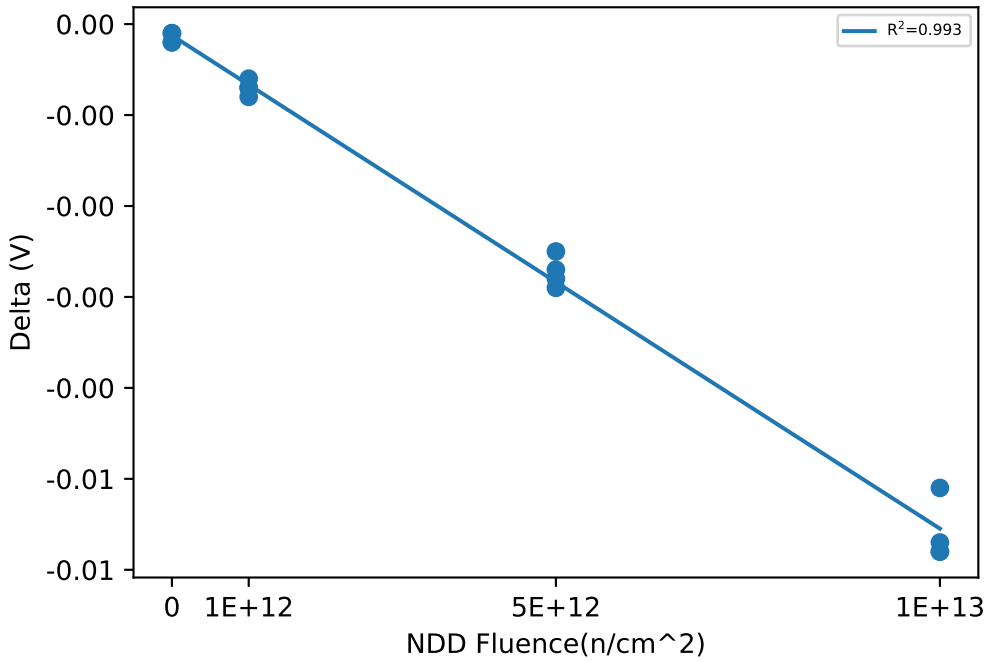
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.2036	1.2029	-0.0007
101	1e+12	NDD	1.2029	1.2023	-0.0006
102	1e+12	NDD	1.2037	1.203	-0.0007
103	1e+12	NDD	1.2021	1.2013	-0.0008
104	5e+12	NDD	1.1999	1.1974	-0.0025
105	5e+12	NDD	1.2037	1.2008	-0.0029
106	5e+12	NDD	1.204	1.2012	-0.0028
107	5e+12	NDD	1.2016	1.1989	-0.0027
108	1e+13	NDD	1.2009	1.1951	-0.0058
109	1e+13	NDD	1.2019	1.1961	-0.0058
110	1e+13	NDD	1.1987	1.1936	-0.0051
111	1e+13	NDD	1.2045	1.1988	-0.0057
732	0	CORRELATION	1.2047	1.2045	-0.0002
742	0	CORRELATION	1.2035	1.2034	-0.0001
879	0	CORRELATION	1.2042	1.2041	-0.0001
880	0	CORRELATION	1.2061	1.2059	-0.0002

NDD vs Post - Pre Exposure Delta

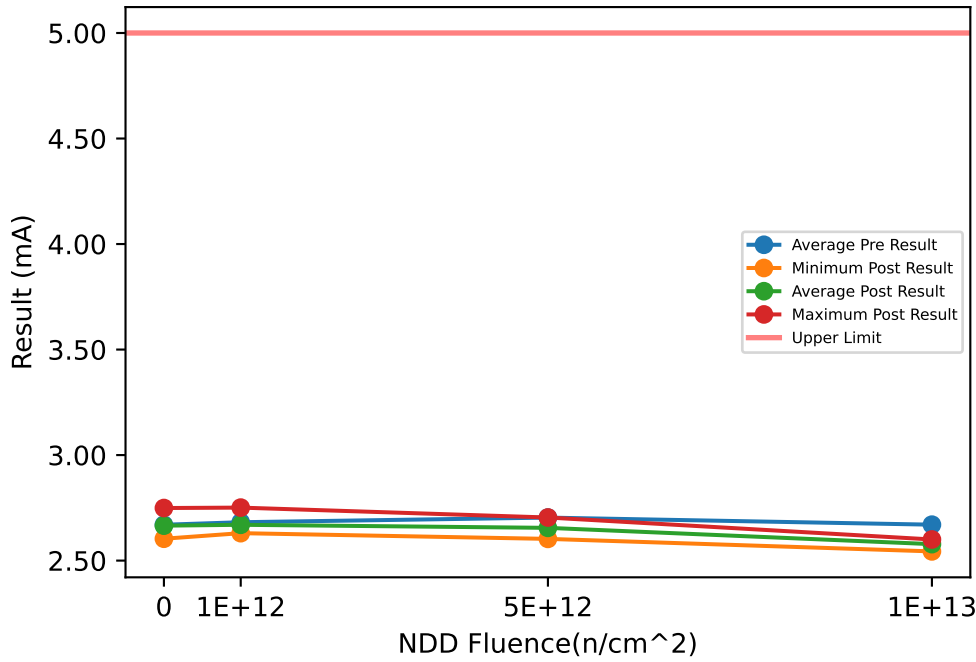


Test Statistics (V)

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	1.2035	1.2046	1.2061	0.0010996	1.2034	1.2045	1.2059	0.0010532	-0.0002	-0.00015	-0.0001	5.7735e-05
1e+12	1.2021	1.2031	1.2037	0.00074106	1.2013	1.2024	1.203	0.00078049	-0.0008	-0.0007	-0.0006	8.165e-05
5e+12	1.1999	1.2023	1.204	0.0019235	1.1974	1.1996	1.2012	0.0017633	-0.0029	-0.002725	-0.0025	0.00017078
1e+13	1.1987	1.2015	1.2045	0.0024055	1.1936	1.1959	1.1988	0.0021894	-0.0058	-0.0056	-0.0051	0.00033665

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

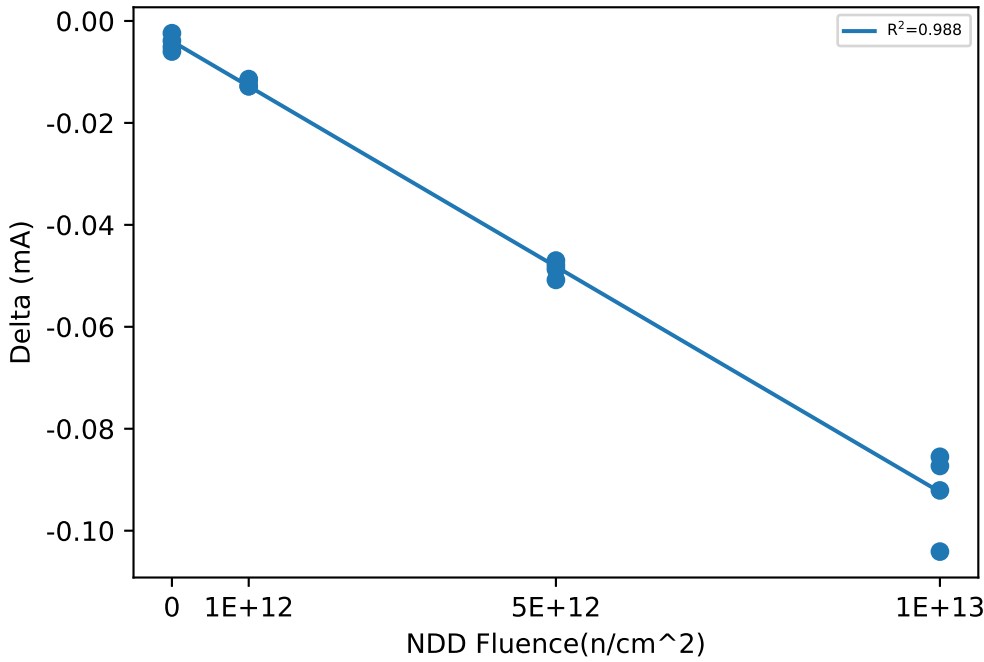
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	2.6735	2.6607	-0.0128
101	1e+12	NDD	2.7627	2.7511	-0.0116
102	1e+12	NDD	2.6414	2.63	-0.0114
103	1e+12	NDD	2.6497	2.6369	-0.0128
104	5e+12	NDD	2.7401	2.6914	-0.0487
105	5e+12	NDD	2.673	2.6222	-0.0508
106	5e+12	NDD	2.6499	2.6029	-0.047
107	5e+12	NDD	2.7521	2.7042	-0.0479
108	1e+13	NDD	2.6996	2.5955	-0.1041
109	1e+13	NDD	2.6874	2.6001	-0.0873
110	1e+13	NDD	2.6357	2.5436	-0.0921
111	1e+13	NDD	2.6583	2.5728	-0.0855
732	0	CORRELATION	2.6261	2.621	-0.0051
742	0	CORRELATION	2.6096	2.6036	-0.006
879	0	CORRELATION	2.6923	2.6884	-0.0039
880	0	CORRELATION	2.7515	2.7491	-0.0024

NDD vs Post - Pre Exposure Delta

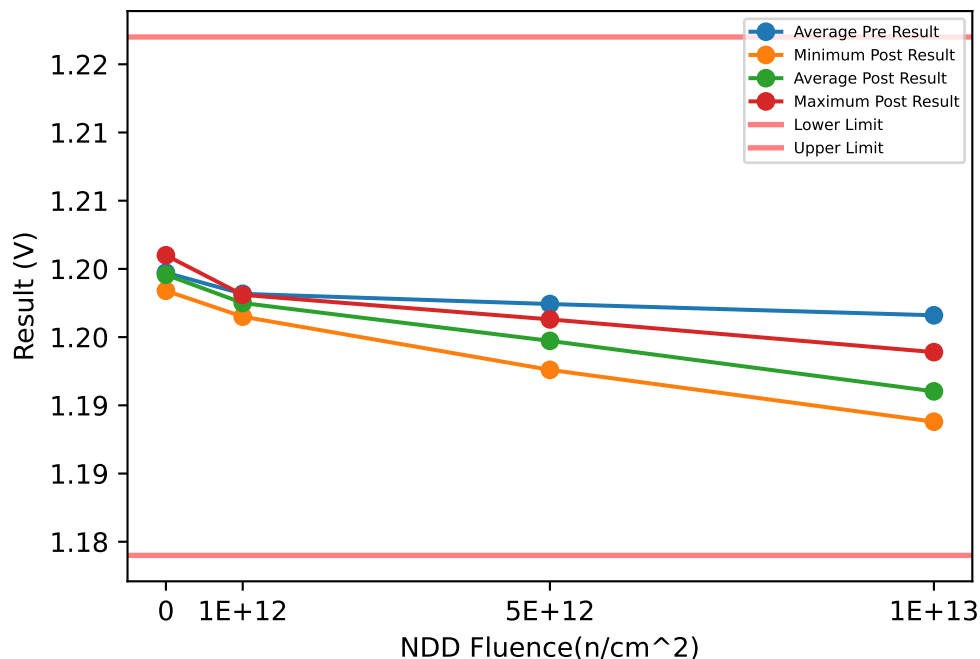


Test Statistics (mA)

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	2.6096	2.6699	2.7515	0.065102	2.6036	2.6655	2.7491	0.066646	-0.006	-0.00435	-0.0024	0.0015588
1e+12	2.6414	2.6818	2.7627	0.055607	2.63	2.6697	2.7511	0.055854	-0.0128	-0.01215	-0.0114	0.00075498
5e+12	2.6499	2.7038	2.7521	0.050015	2.6029	2.6552	2.7042	0.050119	-0.0508	-0.0486	-0.047	0.0016228
1e+13	2.6357	2.6703	2.6996	0.028822	2.5436	2.578	2.6001	0.025853	-0.1041	-0.09225	-0.0855	0.0083768

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

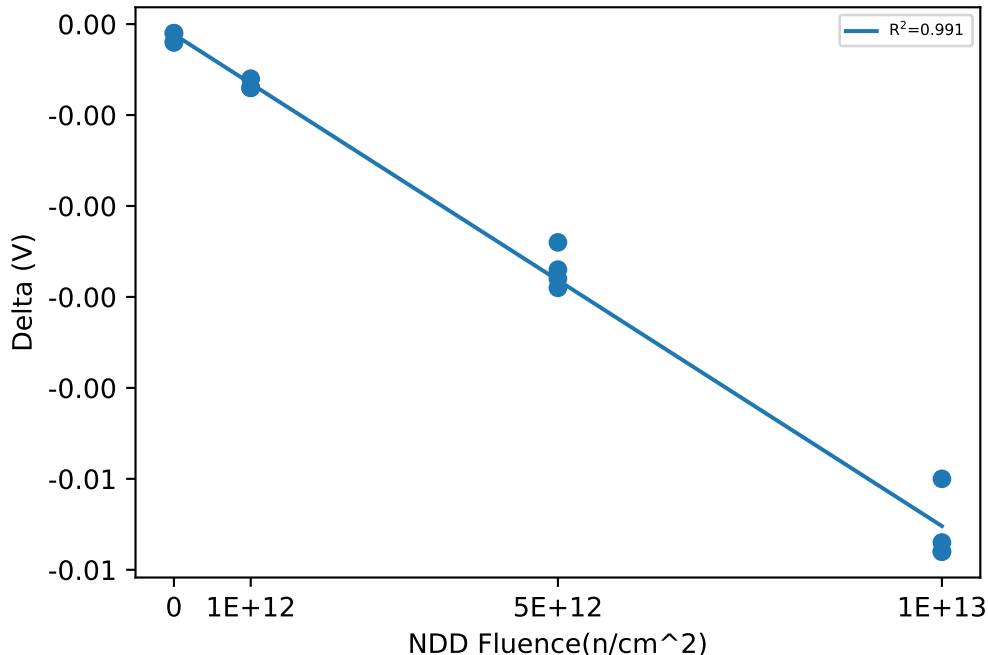
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.2037	1.203	-0.0007
101	1e+12	NDD	1.203	1.2024	-0.0006
102	1e+12	NDD	1.2038	1.2031	-0.0007
103	1e+12	NDD	1.2022	1.2015	-0.0007
104	5e+12	NDD	1.2	1.1976	-0.0024
105	5e+12	NDD	1.2038	1.2009	-0.0029
106	5e+12	NDD	1.2041	1.2013	-0.0028
107	5e+12	NDD	1.2018	1.1991	-0.0027
108	1e+13	NDD	1.201	1.1952	-0.0058
109	1e+13	NDD	1.202	1.1962	-0.0058
110	1e+13	NDD	1.1988	1.1938	-0.005
111	1e+13	NDD	1.2046	1.1989	-0.0057
732	0	CORRELATION	1.2048	1.2047	-0.0001
742	0	CORRELATION	1.2036	1.2034	-0.0002
879	0	CORRELATION	1.2043	1.2042	-0.0001
880	0	CORRELATION	1.2062	1.206	-0.0002

NDD vs Post - Pre Exposure Delta

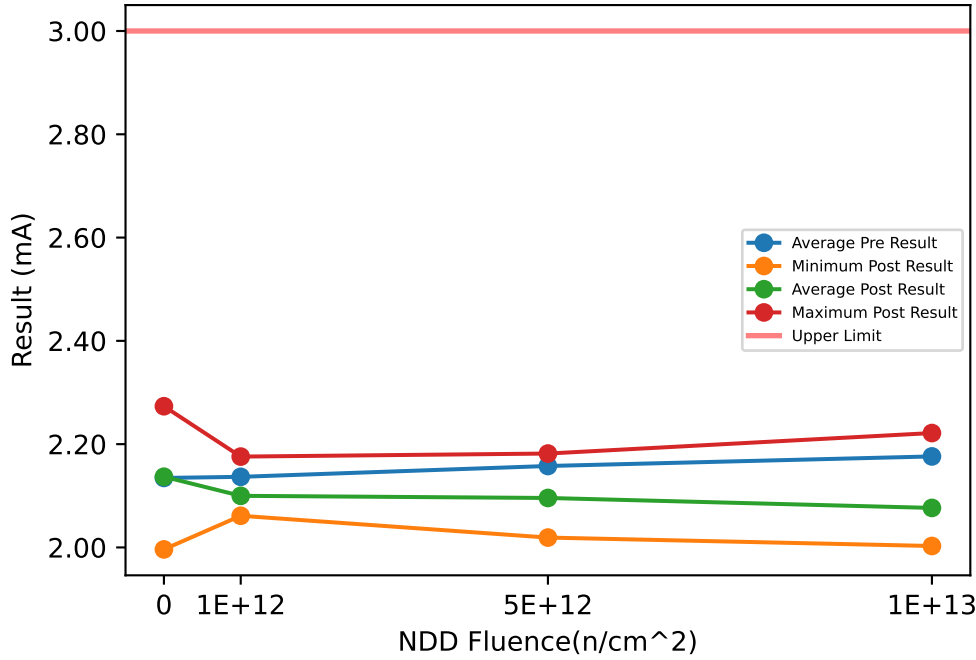


Test Statistics (V)

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	1.2036	1.2047	1.2062	0.0010996	1.2034	1.2046	1.206	0.0010905	-0.0002	-0.00015	-0.0001	5.7735e-05
1e+12	1.2022	1.2032	1.2038	0.00074106	1.2015	1.2025	1.2031	0.00073485	-0.0007	-0.000675	-0.0006	5e-05
5e+12	1.2	1.2024	1.2041	0.001912	1.1976	1.1997	1.2013	0.0017095	-0.0029	-0.0027	-0.0024	0.00021602
1e+13	1.1988	1.2016	1.2046	0.0024055	1.1938	1.196	1.1989	0.0021546	-0.0058	-0.005575	-0.005	0.00038622

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

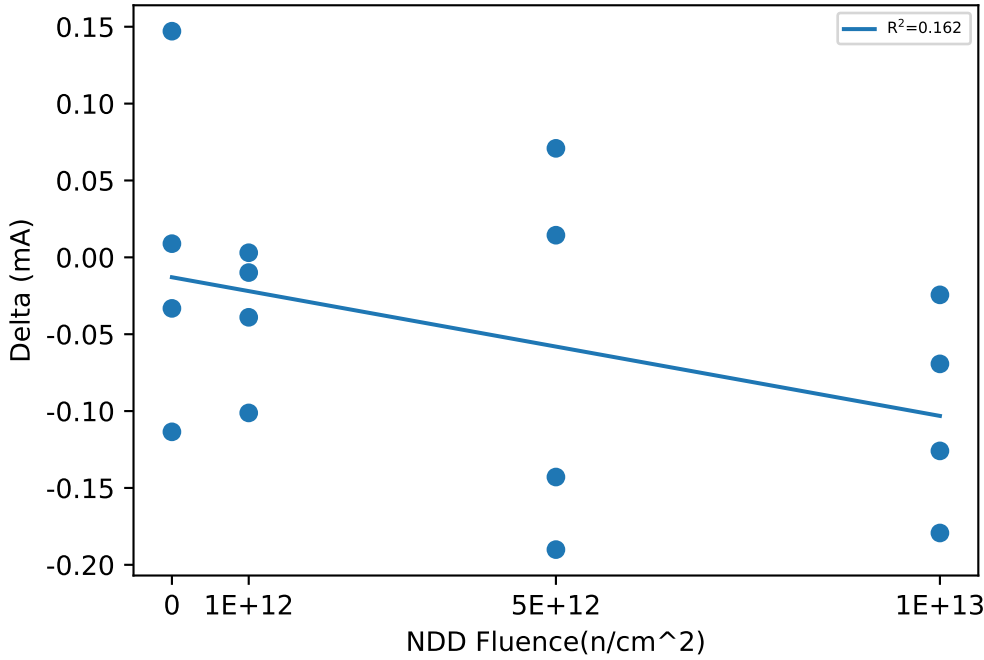
NDD vs Result Stats



Test Results (Upper Limit = 3.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	2.1729	2.1759	0.003
101	1e+12	NDD	2.0953	2.0854	-0.0099
102	1e+12	NDD	2.1161	2.0771	-0.039
103	1e+12	NDD	2.1625	2.0613	-0.1012
104	5e+12	NDD	2.1674	2.1818	0.0144
105	5e+12	NDD	2.2092	2.0191	-0.1901
106	5e+12	NDD	2.0232	2.0941	0.0709
107	5e+12	NDD	2.231	2.0881	-0.1429
108	1e+13	NDD	2.2908	2.2215	-0.0693
109	1e+13	NDD	2.2052	2.0259	-0.1793
110	1e+13	NDD	2.1817	2.0558	-0.1259
111	1e+13	NDD	2.0272	2.0028	-0.0244
732	0	CORRELATION	2.1059	2.0727	-0.0332
742	0	CORRELATION	2.1097	1.9962	-0.1135
879	0	CORRELATION	2.0582	2.2053	0.1471
880	0	CORRELATION	2.2645	2.2734	0.0089

NDD vs Post - Pre Exposure Delta

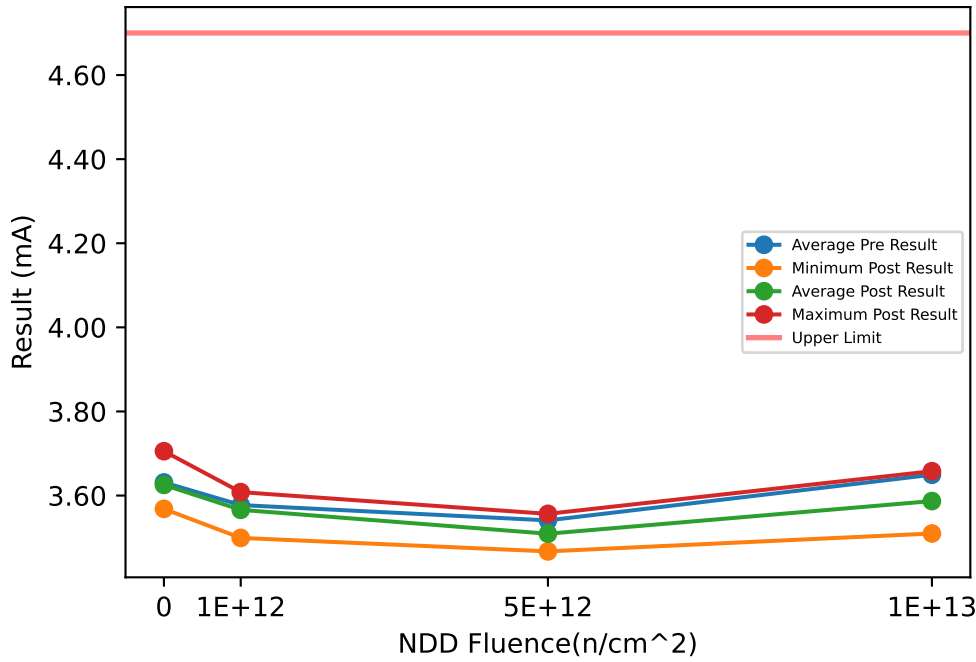


Test Statistics (mA)

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	2.0582	2.1346	2.2645	0.08973	1.9962	2.1369	2.2734	0.12547	-0.1135	0.002325	0.1471	0.10906
1e+12	2.0953	2.1367	2.1729	0.037033	2.0613	2.0999	2.1759	0.051627	-0.1012	-0.036775	0.003	0.046403
5e+12	2.0232	2.1577	2.231	0.093469	2.0191	2.0958	2.1818	0.066686	-0.1901	-0.061925	0.0709	0.12444
1e+13	2.0272	2.1762	2.2908	0.10986	2.0028	2.0765	2.2215	0.099072	-0.1793	-0.099725	-0.0244	0.067372

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

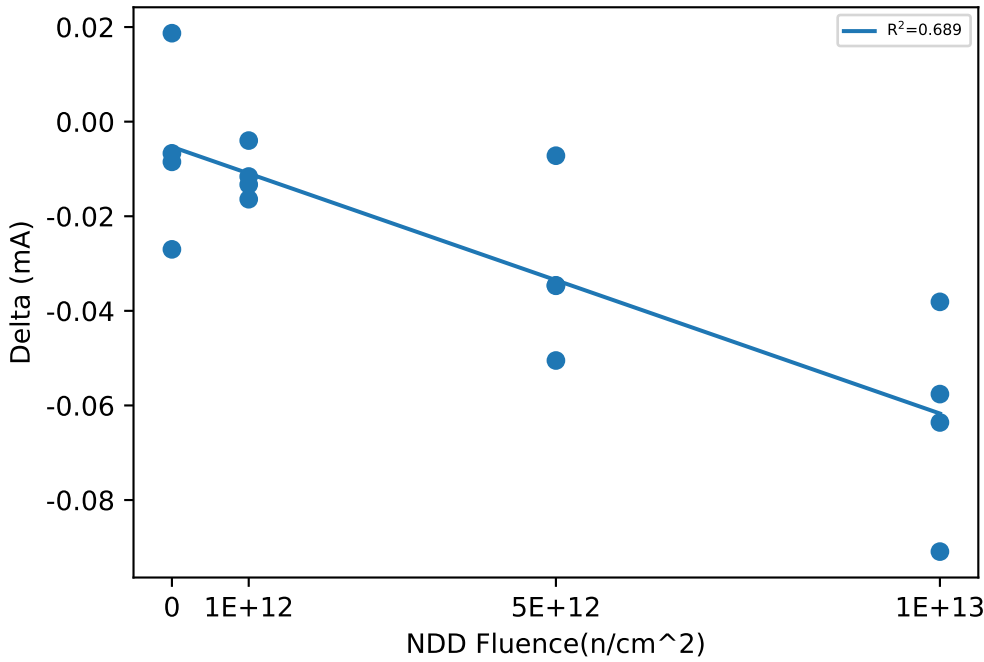
NDD vs Result Stats



Test Results (Upper Limit = 4.7 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.5109	3.4993	-0.0116
101	1e+12	NDD	3.595	3.591	-0.004
102	1e+12	NDD	3.6246	3.6082	-0.0164
103	1e+12	NDD	3.579	3.5657	-0.0133
104	5e+12	NDD	3.5125	3.4778	-0.0347
105	5e+12	NDD	3.5426	3.5354	-0.0072
106	5e+12	NDD	3.5177	3.4672	-0.0505
107	5e+12	NDD	3.5911	3.5565	-0.0346
108	1e+13	NDD	3.6661	3.628	-0.0381
109	1e+13	NDD	3.7155	3.6579	-0.0576
110	1e+13	NDD	3.6154	3.5518	-0.0636
111	1e+13	NDD	3.6007	3.5098	-0.0909
732	0	CORRELATION	3.5768	3.5683	-0.0085
742	0	CORRELATION	3.6868	3.7055	0.0187
879	0	CORRELATION	3.6035	3.5765	-0.027
880	0	CORRELATION	3.6577	3.651	-0.0067

NDD vs Post - Pre Exposure Delta

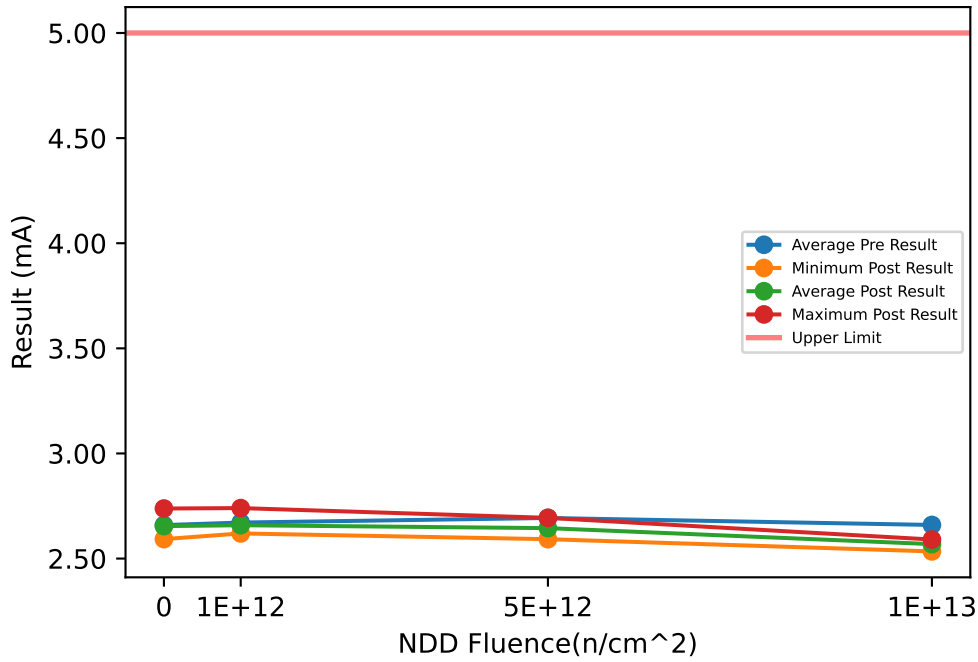


Test Statistics (mA)

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	3.5768	3.6312	3.6868	0.050067	3.5683	3.6253	3.7055	0.065123	-0.027	-0.005875	0.0187	0.018777
1e+12	3.5109	3.5774	3.6246	0.048175	3.4993	3.5661	3.6082	0.047801	-0.0164	-0.011325	-0.004	0.0052722
5e+12	3.5125	3.541	3.5911	0.035906	3.4672	3.5092	3.5565	0.043488	-0.0505	-0.03175	-0.0072	0.017992
1e+13	3.6007	3.6494	3.7155	0.052204	3.5098	3.5869	3.6579	0.068085	-0.0909	-0.06255	-0.0381	0.021811

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

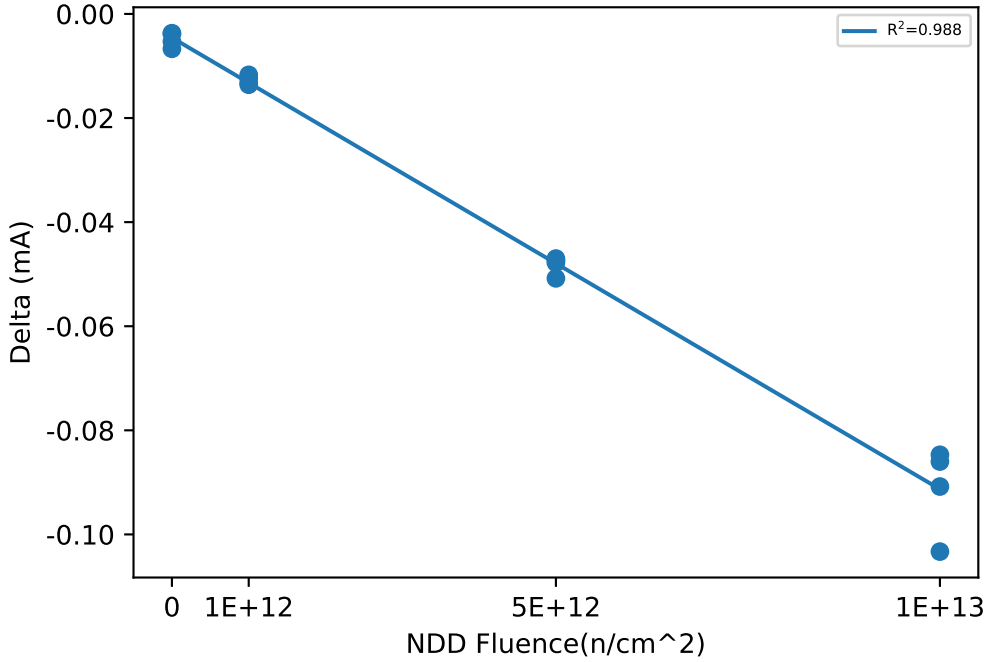
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	2.6628	2.6496	-0.0132
101	1e+12	NDD	2.7524	2.7401	-0.0123
102	1e+12	NDD	2.6312	2.6195	-0.0117
103	1e+12	NDD	2.6386	2.625	-0.0136
104	5e+12	NDD	2.7292	2.6814	-0.0478
105	5e+12	NDD	2.6626	2.6118	-0.0508
106	5e+12	NDD	2.6392	2.5922	-0.047
107	5e+12	NDD	2.7411	2.6937	-0.0474
108	1e+13	NDD	2.6904	2.5871	-0.1033
109	1e+13	NDD	2.6766	2.5906	-0.086
110	1e+13	NDD	2.6249	2.5341	-0.0908
111	1e+13	NDD	2.6478	2.5631	-0.0847
732	0	CORRELATION	2.6155	2.6102	-0.0053
742	0	CORRELATION	2.5992	2.5925	-0.0067
879	0	CORRELATION	2.6802	2.6765	-0.0037
880	0	CORRELATION	2.7419	2.7381	-0.0038

NDD vs Post - Pre Exposure Delta

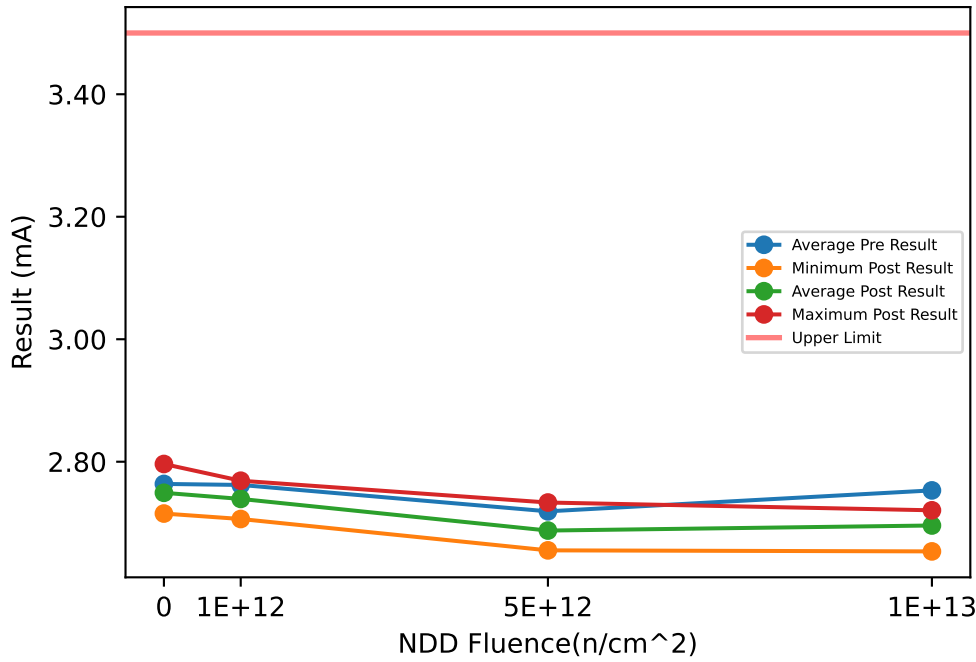


Test Statistics (mA)

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	2.5992	2.6592	2.7419	0.065294	2.5925	2.6543	2.7381	0.066532	-0.0067	-0.004875	-0.0037	0.0014198
1e+12	2.6312	2.6713	2.7524	0.055758	2.6195	2.6585	2.7401	0.05592	-0.0136	-0.0127	-0.0117	0.00086023
5e+12	2.6392	2.693	2.7411	0.049808	2.5922	2.6448	2.6937	0.050288	-0.0508	-0.04825	-0.047	0.0017311
1e+13	2.6249	2.6599	2.6904	0.029329	2.5341	2.5687	2.5906	0.02612	-0.1033	-0.0912	-0.0847	0.0084825

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

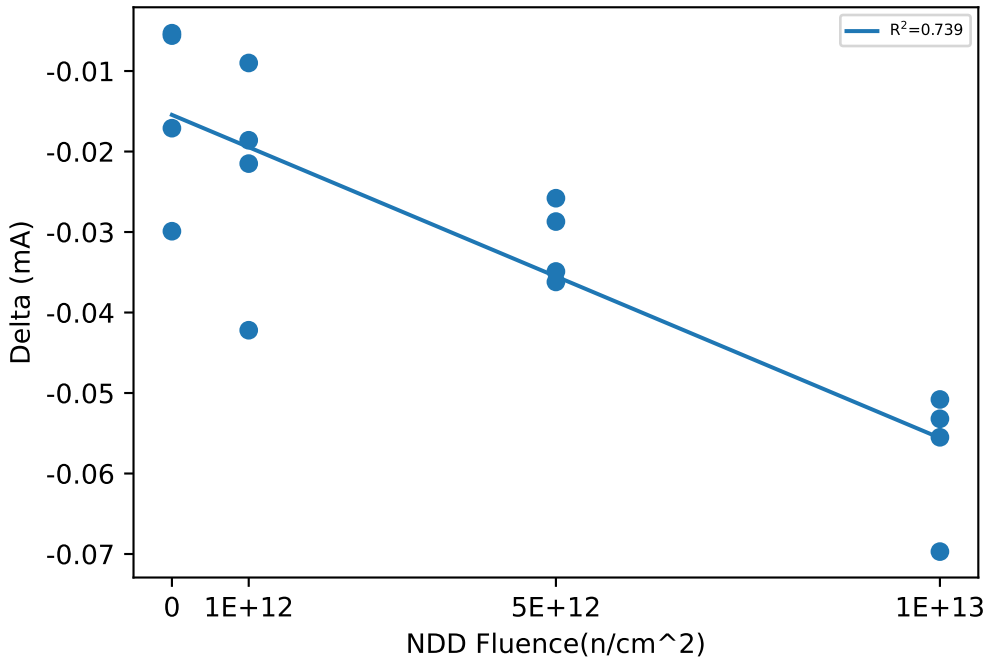
NDD vs Result Stats



Test Results (Upper Limit = 3.5 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	2.7251	2.7065	-0.0186
101	1e+12	NDD	2.778	2.769	-0.009
102	1e+12	NDD	2.8053	2.7631	-0.0422
103	1e+12	NDD	2.74	2.7185	-0.0215
104	5e+12	NDD	2.684	2.6553	-0.0287
105	5e+12	NDD	2.7203	2.6945	-0.0258
106	5e+12	NDD	2.7022	2.6673	-0.0349
107	5e+12	NDD	2.7696	2.7334	-0.0362
108	1e+13	NDD	2.7233	2.6536	-0.0697
109	1e+13	NDD	2.7739	2.7207	-0.0532
110	1e+13	NDD	2.7662	2.7154	-0.0508
111	1e+13	NDD	2.7494	2.6939	-0.0555
732	0	CORRELATION	2.7325	2.7154	-0.0171
742	0	CORRELATION	2.7844	2.7545	-0.0299
879	0	CORRELATION	2.7365	2.7309	-0.0056
880	0	CORRELATION	2.8016	2.7963	-0.0053

NDD vs Post - Pre Exposure Delta

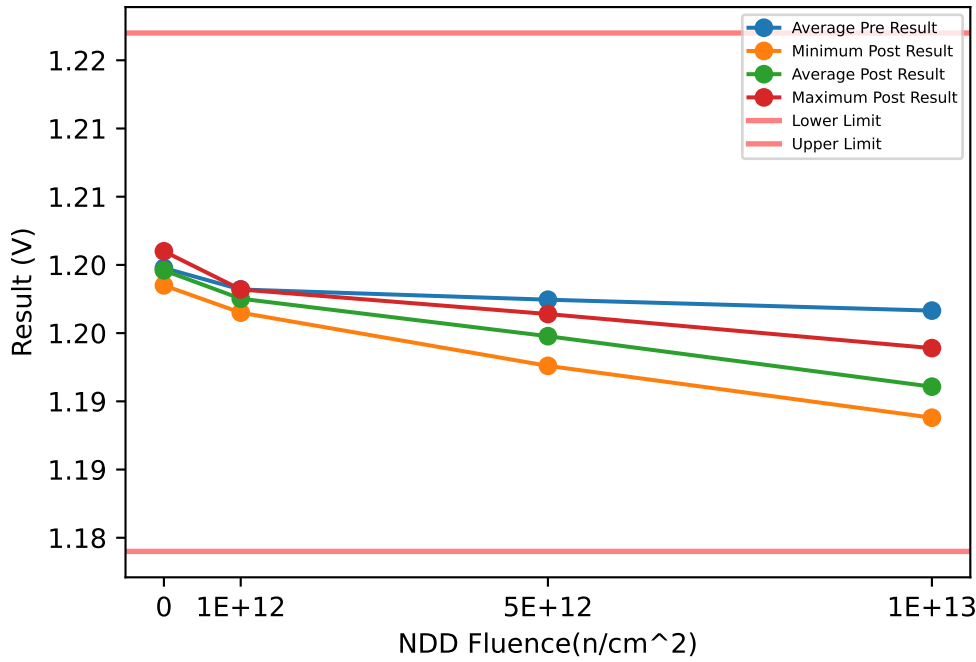


Test Statistics (mA)

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	2.7325	2.7637	2.8016	0.034536	2.7154	2.7493	2.7963	0.035232	-0.0299	-0.014475	-0.0053	0.011659
1e+12	2.7251	2.7621	2.8053	0.036407	2.7065	2.7393	2.769	0.031395	-0.0422	-0.022825	-0.009	0.013978
5e+12	2.684	2.719	2.7696	0.03683	2.6553	2.6876	2.7334	0.034644	-0.0362	-0.0314	-0.0258	0.0049645
1e+13	2.7233	2.7532	2.7739	0.022405	2.6536	2.6959	2.7207	0.030488	-0.0697	-0.0573	-0.0508	0.0084865

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

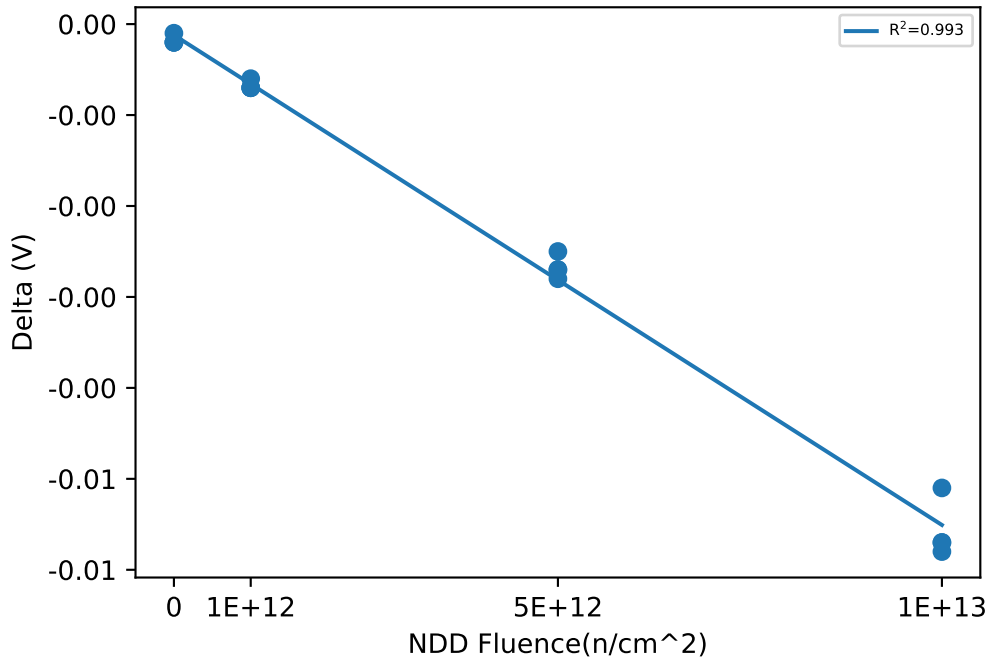
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.2037	1.203	-0.0007
101	1e+12	NDD	1.2031	1.2024	-0.0007
102	1e+12	NDD	1.2038	1.2032	-0.0006
103	1e+12	NDD	1.2022	1.2015	-0.0007
104	5e+12	NDD	1.2001	1.1976	-0.0025
105	5e+12	NDD	1.2038	1.201	-0.0028
106	5e+12	NDD	1.2041	1.2014	-0.0027
107	5e+12	NDD	1.2018	1.1991	-0.0027
108	1e+13	NDD	1.2011	1.1953	-0.0058
109	1e+13	NDD	1.202	1.1963	-0.0057
110	1e+13	NDD	1.1989	1.1938	-0.0051
111	1e+13	NDD	1.2046	1.1989	-0.0057
732	0	CORRELATION	1.2049	1.2047	-0.0002
742	0	CORRELATION	1.2037	1.2035	-0.0002
879	0	CORRELATION	1.2043	1.2042	-0.0001
880	0	CORRELATION	1.2062	1.206	-0.0002

NDD vs Post - Pre Exposure Delta

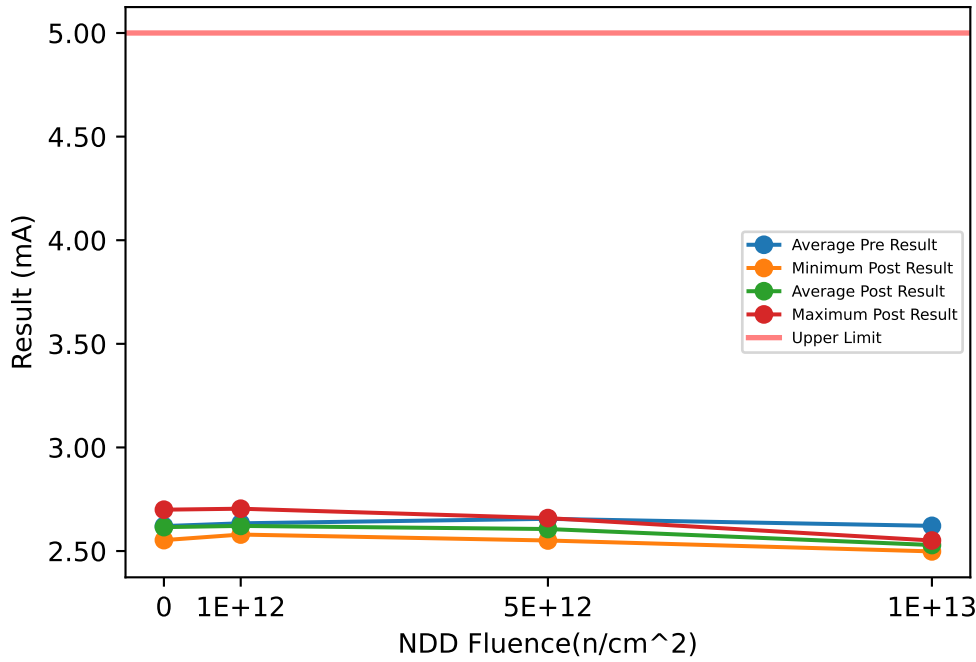


Test Statistics (V)

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	1.2037	1.2048	1.2062	0.0010689	1.2035	1.2046	1.206	0.0010551	-0.0002	-0.000175	-0.0001	5e-05
1e+12	1.2022	1.2032	1.2038	0.00073485	1.2015	1.2025	1.2032	0.00076322	-0.0007	-0.000675	-0.0006	5e-05
5e+12	1.2001	1.2025	1.2041	0.0018699	1.1976	1.1998	1.2014	0.0017633	-0.0028	-0.002675	-0.0025	0.00012583
1e+13	1.1989	1.2016	1.2046	0.0023587	1.1938	1.1961	1.1989	0.0021453	-0.0058	-0.005575	-0.0051	0.00032016

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

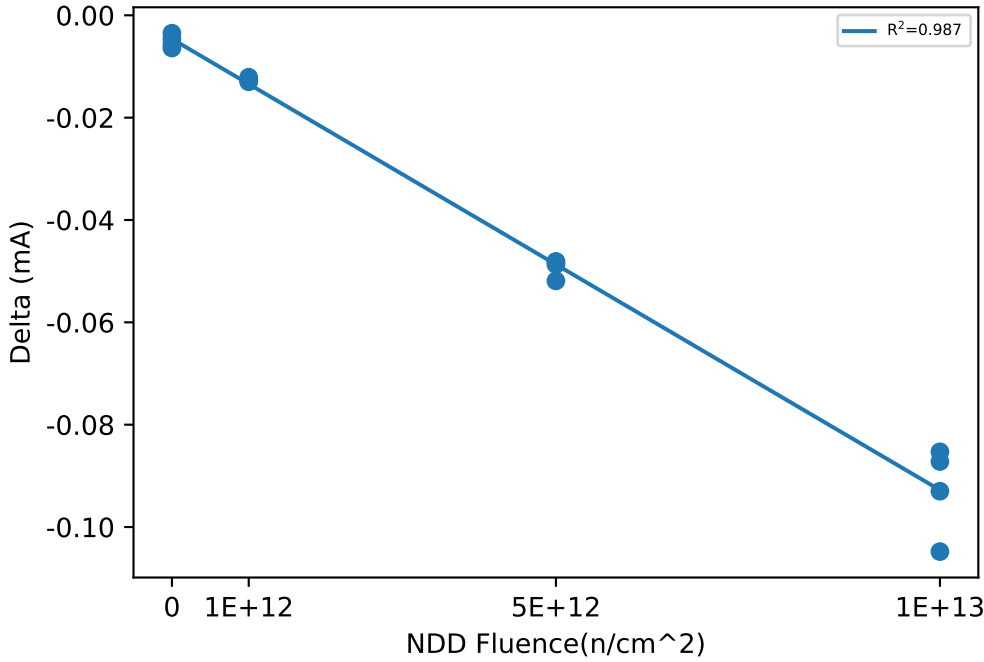
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	2.6258	2.6128	-0.013
101	1e+12	NDD	2.717	2.7043	-0.0127
102	1e+12	NDD	2.5917	2.5796	-0.0121
103	1e+12	NDD	2.601	2.5882	-0.0128
104	5e+12	NDD	2.691	2.6428	-0.0482
105	5e+12	NDD	2.6243	2.5724	-0.0519
106	5e+12	NDD	2.5996	2.5509	-0.0487
107	5e+12	NDD	2.7071	2.659	-0.0481
108	1e+13	NDD	2.6511	2.5463	-0.1048
109	1e+13	NDD	2.6381	2.5509	-0.0872
110	1e+13	NDD	2.5913	2.4983	-0.093
111	1e+13	NDD	2.6058	2.5205	-0.0853
732	0	CORRELATION	2.5785	2.5728	-0.0057
742	0	CORRELATION	2.5591	2.5527	-0.0064
879	0	CORRELATION	2.6412	2.6366	-0.0046
880	0	CORRELATION	2.7031	2.6996	-0.0035

NDD vs Post - Pre Exposure Delta

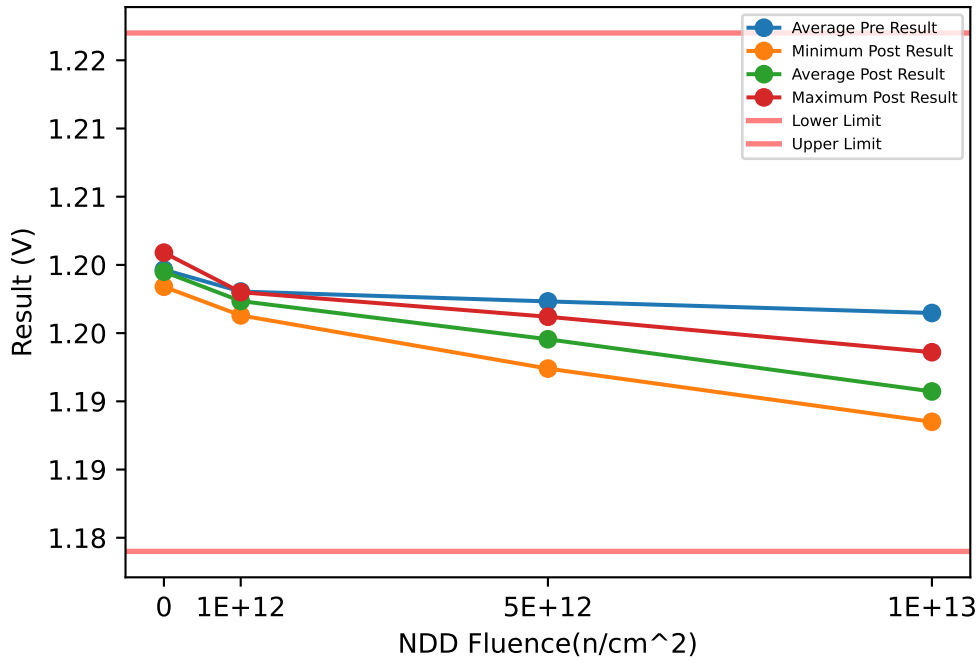


Test Statistics (mA)

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	2.5591	2.6205	2.7031	0.065282	2.5527	2.6154	2.6996	0.066546	-0.0064	-0.00505	-0.0035	0.0012715
1e+12	2.5917	2.6339	2.717	0.057255	2.5796	2.6212	2.7043	0.057142	-0.013	-0.01265	-0.0121	0.0003873
5e+12	2.5996	2.6555	2.7071	0.051708	2.5509	2.6063	2.659	0.052687	-0.0519	-0.049225	-0.0481	0.0018025
1e+13	2.5913	2.6216	2.6511	0.02775	2.4983	2.529	2.5509	0.024452	-0.1048	-0.092575	-0.0853	0.0087835

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

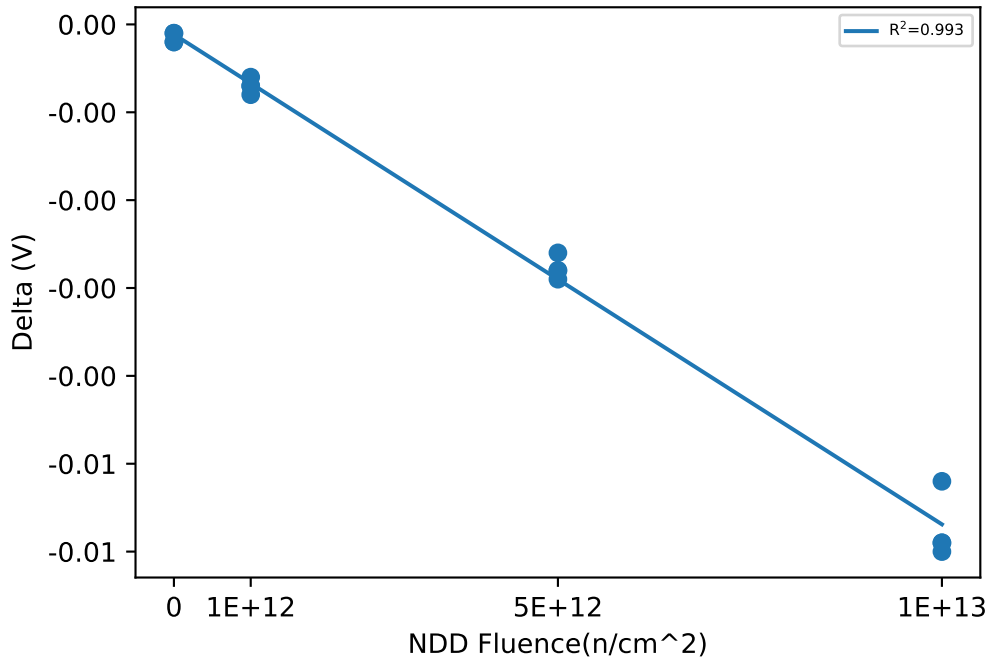
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.2036	1.2028	-0.0008
101	1e+12	NDD	1.2029	1.2023	-0.0006
102	1e+12	NDD	1.2037	1.203	-0.0007
103	1e+12	NDD	1.202	1.2013	-0.0007
104	5e+12	NDD	1.2	1.1974	-0.0026
105	5e+12	NDD	1.2037	1.2008	-0.0029
106	5e+12	NDD	1.204	1.2012	-0.0028
107	5e+12	NDD	1.2016	1.1988	-0.0028
108	1e+13	NDD	1.2009	1.1949	-0.006
109	1e+13	NDD	1.2018	1.1959	-0.0059
110	1e+13	NDD	1.1987	1.1935	-0.0052
111	1e+13	NDD	1.2045	1.1986	-0.0059
732	0	CORRELATION	1.2048	1.2046	-0.0002
742	0	CORRELATION	1.2035	1.2034	-0.0001
879	0	CORRELATION	1.2042	1.2041	-0.0001
880	0	CORRELATION	1.2061	1.2059	-0.0002

NDD vs Post - Pre Exposure Delta

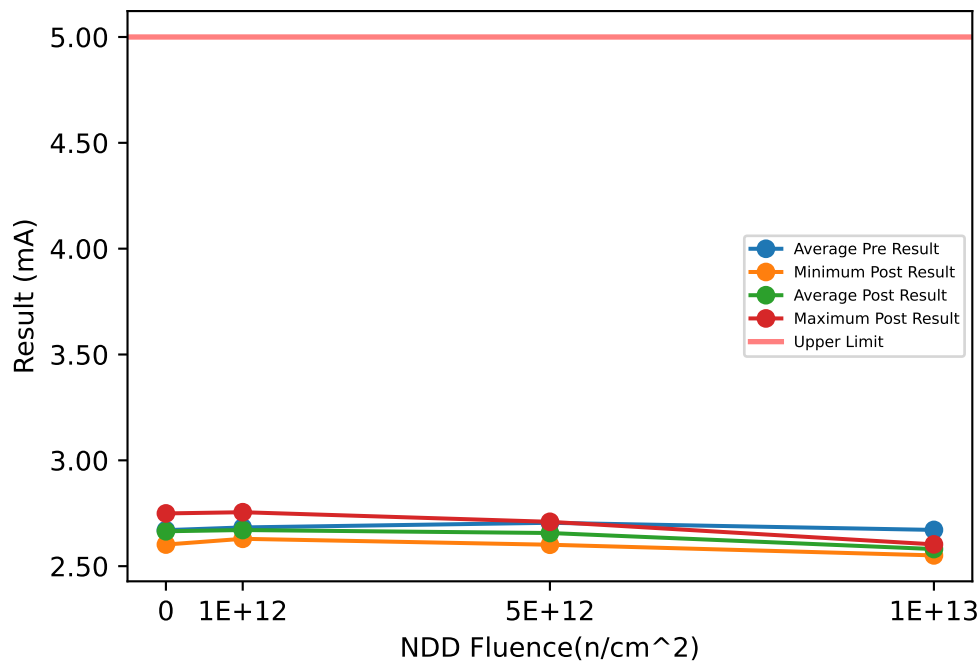


Test Statistics (V)

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	1.2035	1.2046	1.2061	0.001103	1.2034	1.2045	1.2059	0.0010551	-0.0002	-0.00015	-0.0001	5.7735e-05
1e+12	1.202	1.203	1.2037	0.00078528	1.2013	1.2024	1.203	0.00075939	-0.0008	-0.0007	-0.0006	8.165e-05
5e+12	1.2	1.2023	1.204	0.0018822	1.1974	1.1996	1.2012	0.0017767	-0.0029	-0.002775	-0.0026	0.00012583
1e+13	1.1987	1.2015	1.2045	0.0024005	1.1935	1.1957	1.1986	0.0021546	-0.006	-0.00575	-0.0052	0.00036968

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

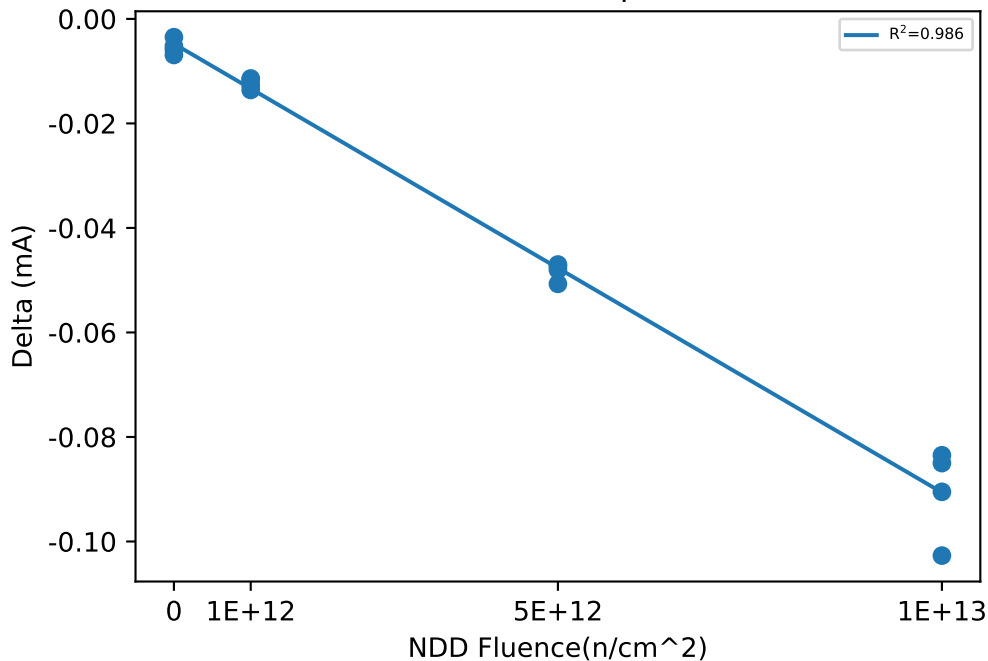
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	2.6752	2.6625	-0.0127
101	1e+12	NDD	2.7663	2.7549	-0.0114
102	1e+12	NDD	2.6409	2.6293	-0.0116
103	1e+12	NDD	2.6497	2.6361	-0.0136
104	5e+12	NDD	2.7407	2.6927	-0.048
105	5e+12	NDD	2.6738	2.6231	-0.0507
106	5e+12	NDD	2.6486	2.6013	-0.0473
107	5e+12	NDD	2.7566	2.7096	-0.047
108	1e+13	NDD	2.7008	2.5981	-0.1027
109	1e+13	NDD	2.688	2.603	-0.085
110	1e+13	NDD	2.6414	2.5509	-0.0905
111	1e+13	NDD	2.6549	2.5714	-0.0835
732	0	CORRELATION	2.6287	2.6228	-0.0059
742	0	CORRELATION	2.609	2.6021	-0.0069
879	0	CORRELATION	2.6905	2.6853	-0.0052
880	0	CORRELATION	2.7527	2.7492	-0.0035

NDD vs Post - Pre Exposure Delta

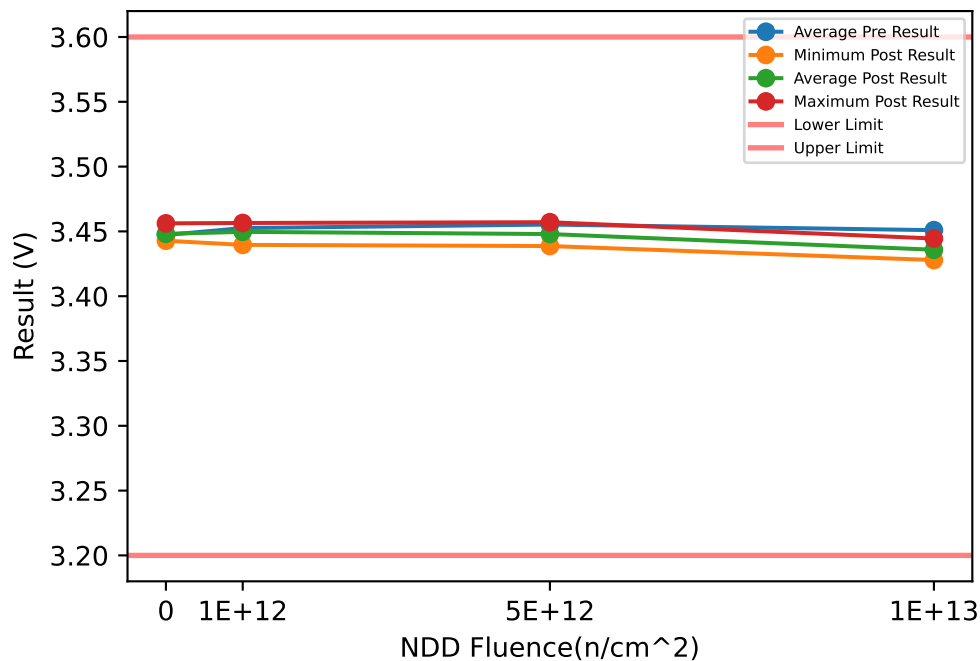


Test Statistics (mA)

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	2.609	2.6702	2.7527	0.065028	2.6021	2.6648	2.7492	0.06643	-0.0069	-0.005375	-0.0035	0.0014315
1e+12	2.6409	2.683	2.7663	0.057391	2.6293	2.6707	2.7549	0.057931	-0.0136	-0.012325	-0.0114	0.0010243
5e+12	2.6486	2.7049	2.7566	0.051934	2.6013	2.6567	2.7096	0.052575	-0.0507	-0.04825	-0.047	0.0016862
1e+13	2.6414	2.6713	2.7008	0.027762	2.5509	2.5808	2.603	0.024321	-0.1027	-0.090425	-0.0835	0.0087191

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

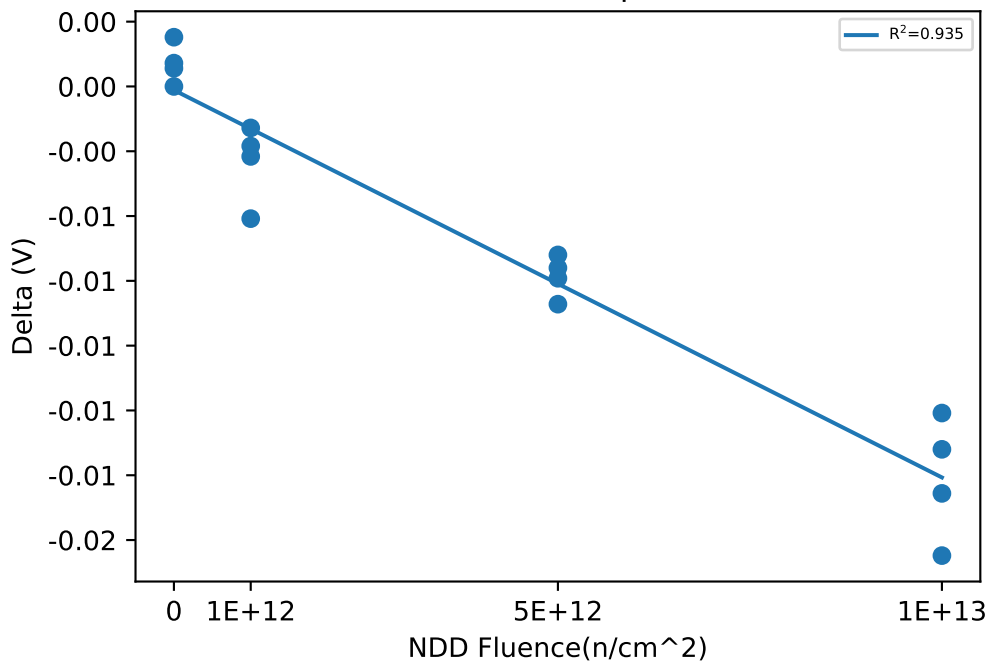
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.4447	3.4396	-0.0051
101	1e+12	NDD	3.4592	3.4565	-0.0027
102	1e+12	NDD	3.4486	3.4463	-0.0023
103	1e+12	NDD	3.4578	3.4562	-0.0016
104	5e+12	NDD	3.4636	3.4571	-0.0065
105	5e+12	NDD	3.4587	3.4513	-0.0074
106	5e+12	NDD	3.4531	3.4447	-0.0084
107	5e+12	NDD	3.4457	3.4387	-0.007
108	1e+13	NDD	3.446	3.4279	-0.0181
109	1e+13	NDD	3.4425	3.4299	-0.0126
110	1e+13	NDD	3.4551	3.4411	-0.014
111	1e+13	NDD	3.4602	3.4445	-0.0157
732	0	CORRELATION	3.4457	3.4464	0.0007
742	0	CORRELATION	3.4409	3.4428	0.0019
879	0	CORRELATION	3.4553	3.4562	0.0009
880	0	CORRELATION	3.447	3.447	0

NDD vs Post - Pre Exposure Delta

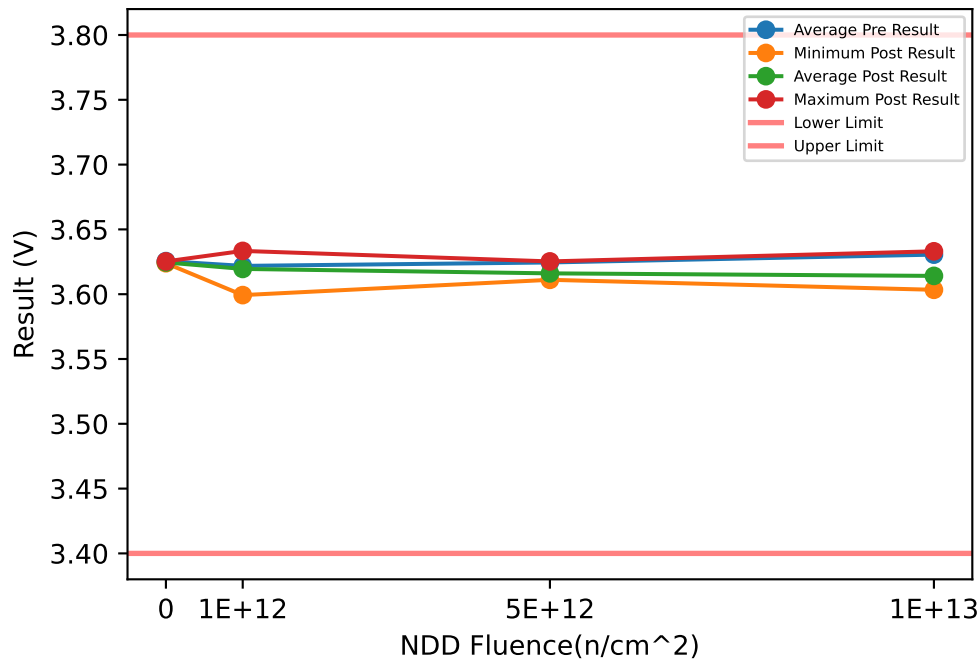


Test Statistics (V)

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	3.4409	3.4472	3.4553	0.0059885	3.4428	3.4481	3.4562	0.0057096	0	0.000875	0.0019	0.00078475
1e+12	3.4447	3.4526	3.4592	0.0070476	3.4396	3.4497	3.4565	0.0082067	-0.0051	-0.002925	-0.0016	0.0015196
5e+12	3.4457	3.4553	3.4636	0.0076908	3.4387	3.448	3.4571	0.0079806	-0.0084	-0.007325	-0.0065	0.00080571
1e+13	3.4425	3.4509	3.4602	0.0081382	3.4279	3.4359	3.4445	0.0081851	-0.0181	-0.0151	-0.0126	0.0023678

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

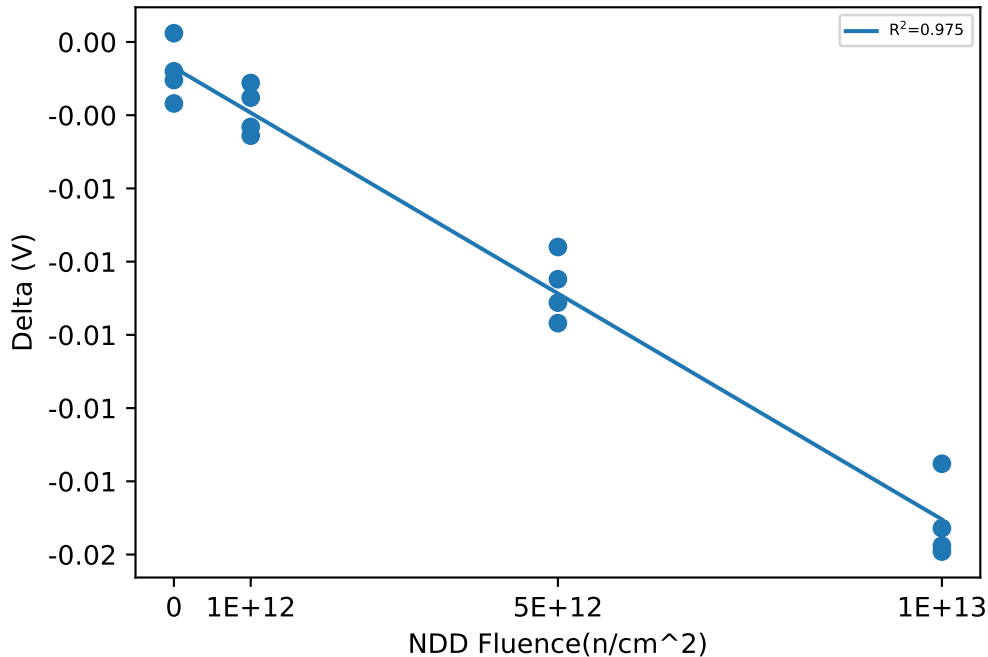
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.6168	3.6136	-0.0032
101	1e+12	NDD	3.6022	3.5993	-0.0029
102	1e+12	NDD	3.6336	3.6317	-0.0019
103	1e+12	NDD	3.6348	3.6334	-0.0014
104	5e+12	NDD	3.6217	3.6136	-0.0081
105	5e+12	NDD	3.6239	3.6143	-0.0096
106	5e+12	NDD	3.62	3.6111	-0.0089
107	5e+12	NDD	3.6323	3.6253	-0.007
108	1e+13	NDD	3.6236	3.6064	-0.0172
109	1e+13	NDD	3.6208	3.6034	-0.0174
110	1e+13	NDD	3.628	3.6136	-0.0144
111	1e+13	NDD	3.6497	3.6331	-0.0166
732	0	CORRELATION	3.6252	3.6239	-0.0013
742	0	CORRELATION	3.6267	3.6246	-0.0021
879	0	CORRELATION	3.625	3.6253	0.0003
880	0	CORRELATION	3.6252	3.6242	-0.001

NDD vs Post - Pre Exposure Delta

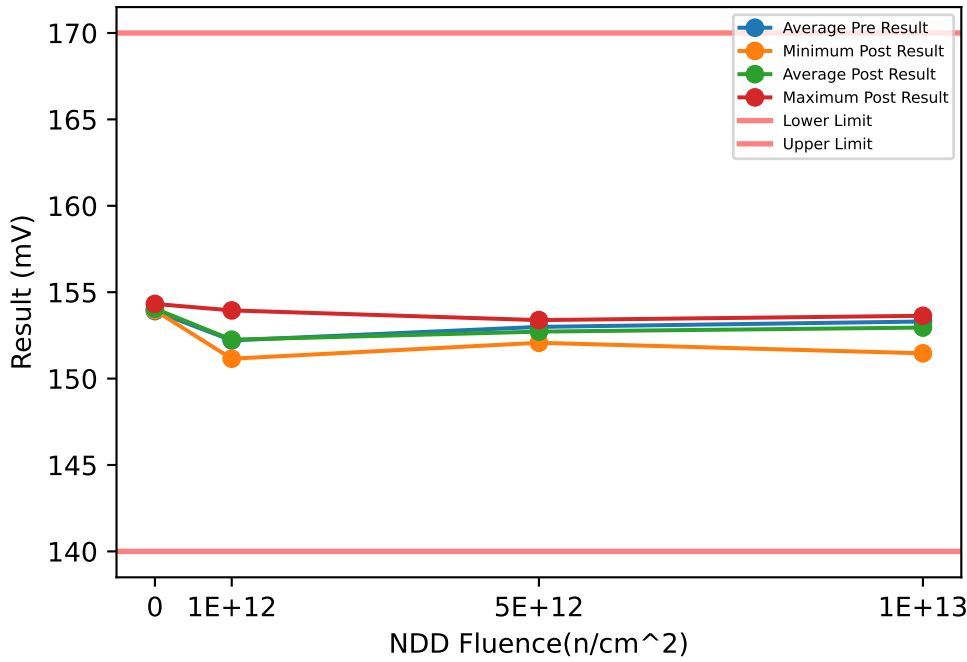


Test Statistics (V)

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	3.625	3.6255	3.6267	0.00078899	3.6239	3.6245	3.6253	0.00060553	-0.0021	-0.001025	0.0003	0.00099791
1e+12	3.6022	3.6218	3.6348	0.015464	3.5993	3.6195	3.6334	0.016175	-0.0032	-0.00235	-0.0014	0.00084261
5e+12	3.62	3.6245	3.6323	0.0054555	3.6111	3.6161	3.6253	0.0063015	-0.0096	-0.0084	-0.007	0.0011165
1e+13	3.6208	3.6305	3.6497	0.013122	3.6034	3.6141	3.6331	0.013354	-0.0174	-0.0164	-0.0144	0.001376

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

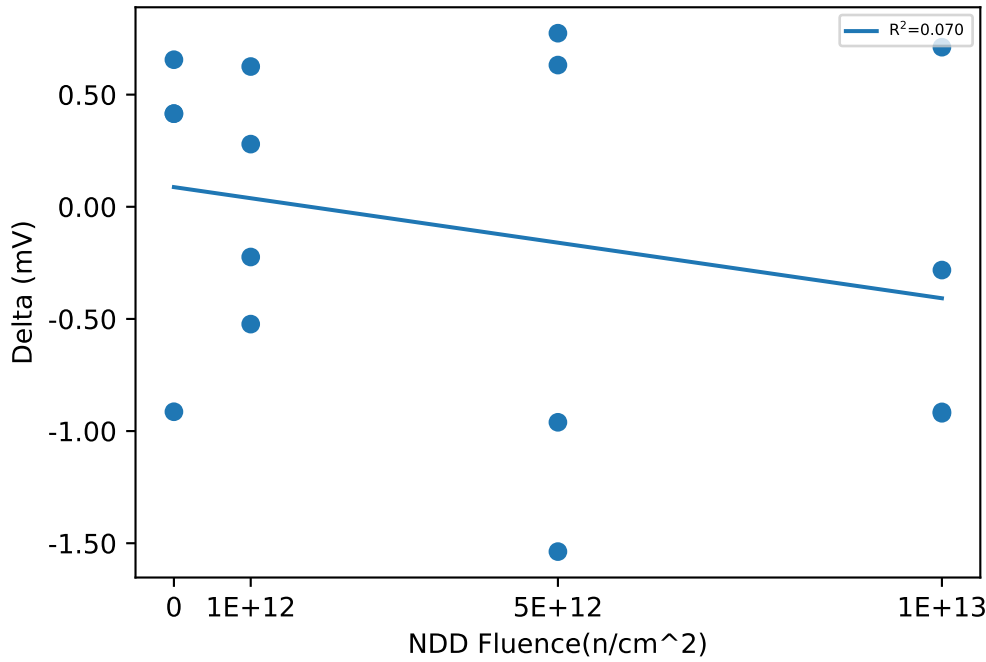
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	151.67	151.15	-0.5231
101	1e+12	NDD	152.05	151.82	-0.2239
102	1e+12	NDD	153.32	153.95	0.6253
103	1e+12	NDD	151.8	152.08	0.2794
104	5e+12	NDD	153.67	152.71	-0.9608
105	5e+12	NDD	152.61	153.38	0.7739
106	5e+12	NDD	153.61	152.07	-1.5373
107	5e+12	NDD	152.07	152.7	0.6318
108	1e+13	NDD	152.38	151.46	-0.9206
109	1e+13	NDD	154.3	153.38	-0.9144
110	1e+13	NDD	152.92	153.63	0.7115
111	1e+13	NDD	153.61	153.33	-0.2821
732	0	CORRELATION	153.55	153.96	0.4154
742	0	CORRELATION	155.24	154.32	-0.9138
879	0	CORRELATION	153.3	153.95	0.6557
880	0	CORRELATION	153.55	153.96	0.4151

NDD vs Post - Pre Exposure Delta

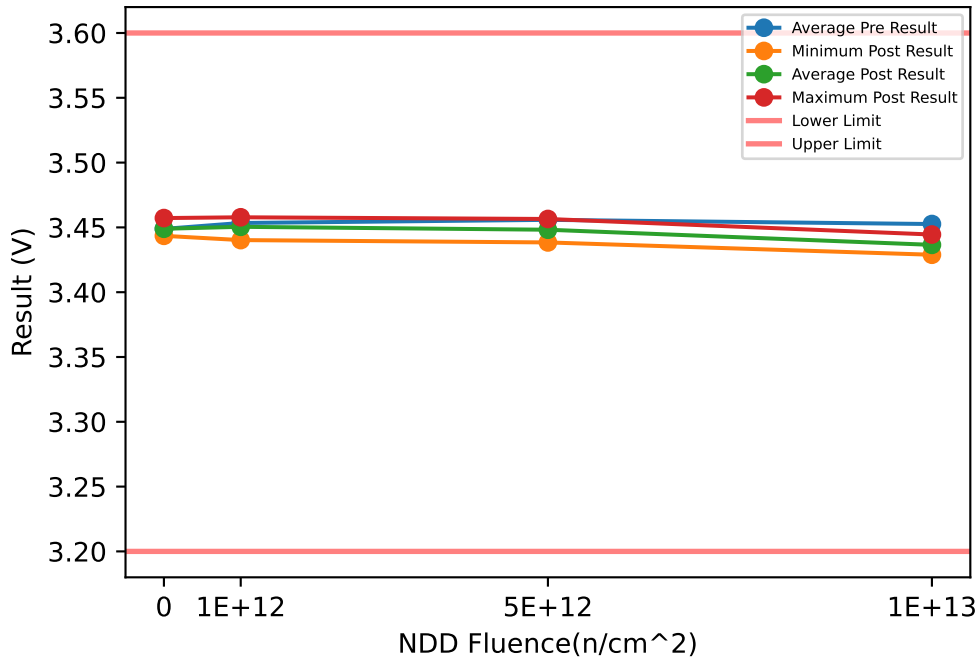


Test Statistics (mV)

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	153.3	153.91	155.24	0.89363	153.95	154.05	154.32	0.1813	-0.9138	0.1431	0.6557	0.71366
1e+12	151.67	152.21	153.32	0.75651	151.15	152.25	153.95	1.1969	-0.5231	0.039425	0.6253	0.51206
5e+12	152.07	152.99	153.67	0.78291	152.07	152.72	153.38	0.53564	-1.5373	-0.2731	0.7739	1.1527
1e+13	152.38	153.3	154.3	0.83164	151.46	152.95	153.63	1.0015	-0.9206	-0.3514	0.7115	0.76931

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

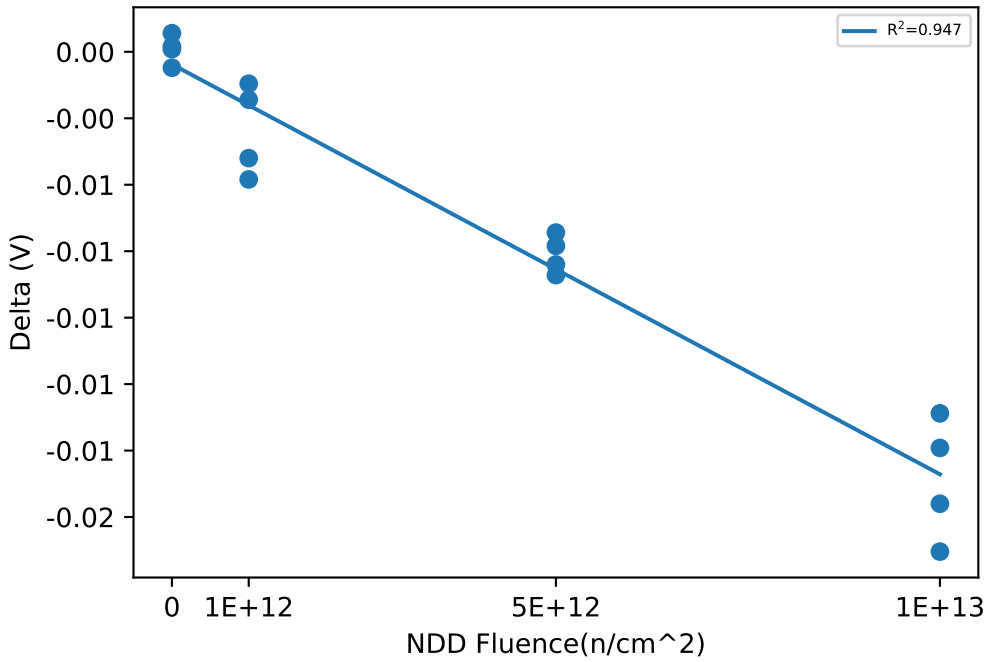
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.445	3.4402	-0.0048
101	1e+12	NDD	3.4596	3.4578	-0.0018
102	1e+12	NDD	3.4506	3.4466	-0.004
103	1e+12	NDD	3.4584	3.4572	-0.0012
104	5e+12	NDD	3.4649	3.4565	-0.0084
105	5e+12	NDD	3.4593	3.4513	-0.008
106	5e+12	NDD	3.4534	3.4466	-0.0068
107	5e+12	NDD	3.4457	3.4384	-0.0073
108	1e+13	NDD	3.4477	3.4289	-0.0188
109	1e+13	NDD	3.4448	3.4312	-0.0136
110	1e+13	NDD	3.4564	3.4415	-0.0149
111	1e+13	NDD	3.4615	3.4445	-0.017
732	0	CORRELATION	3.4463	3.4464	0.0001
742	0	CORRELATION	3.4428	3.4435	0.0007
879	0	CORRELATION	3.457	3.4572	0.0002
880	0	CORRELATION	3.4493	3.4487	-0.0006

NDD vs Post - Pre Exposure Delta

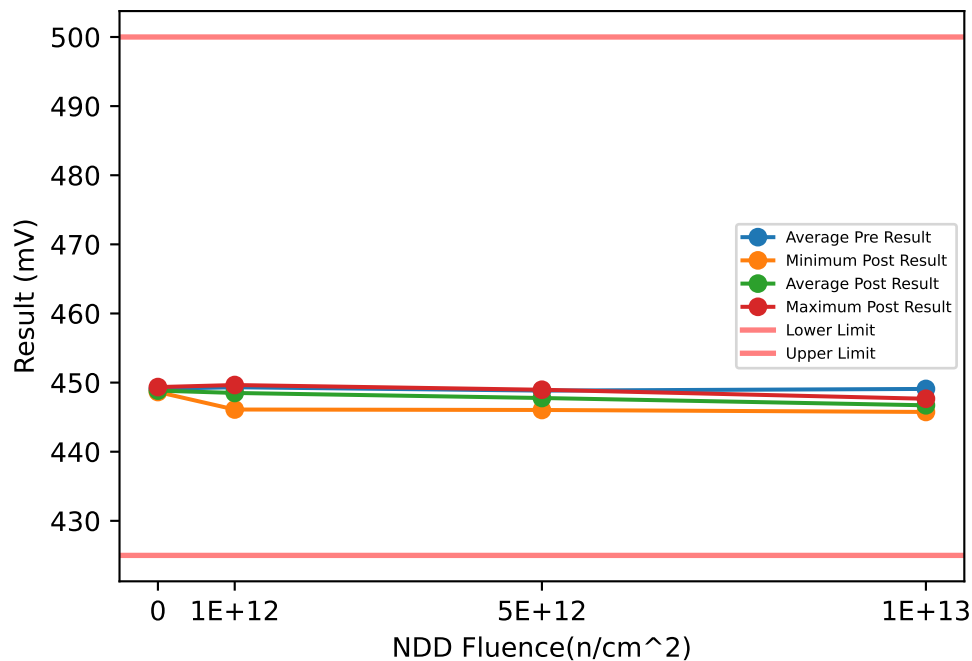


Test Statistics (V)

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	3.4428	3.4489	3.457	0.0060479	3.4435	3.4489	3.4572	0.0058972	-0.0006	0.0001	0.0007	0.00053541
1e+12	3.445	3.4534	3.4596	0.006876	3.4402	3.4505	3.4578	0.0085532	-0.0048	-0.00295	-0.0012	0.0017234
5e+12	3.4457	3.4558	3.4649	0.0082225	3.4384	3.4482	3.4565	0.0076833	-0.0084	-0.007625	-0.0068	0.00071356
1e+13	3.4448	3.4526	3.4615	0.0077136	3.4289	3.4365	3.4445	0.0076343	-0.0188	-0.016075	-0.0136	0.002294

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

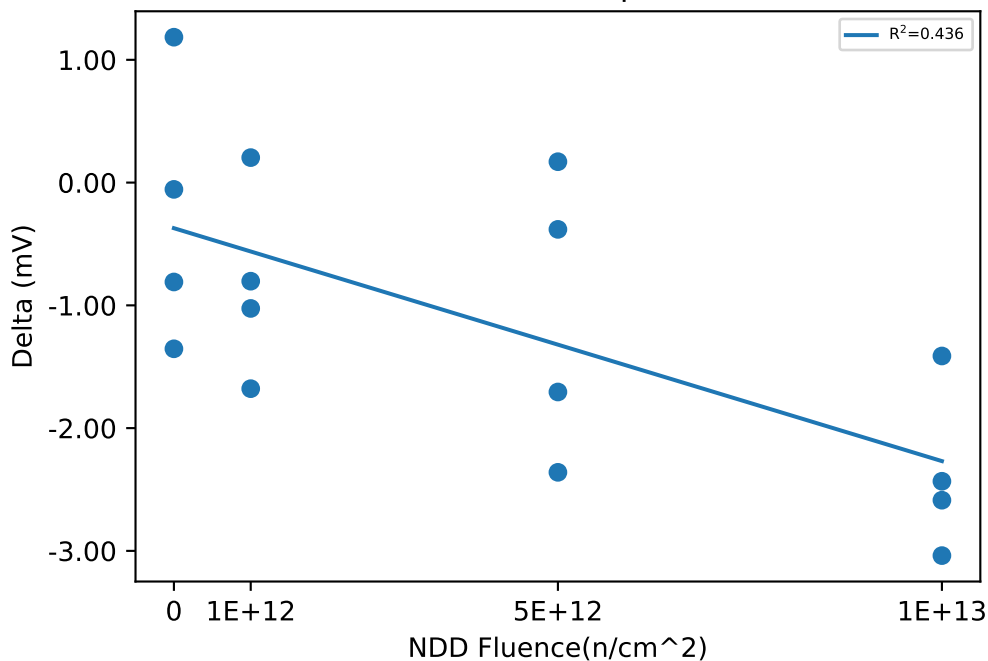
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	447.78	446.11	-1.6787
101	1e+12	NDD	449.45	449.65	0.2035
102	1e+12	NDD	450.32	449.29	-1.0251
103	1e+12	NDD	449.76	448.96	-0.8032
104	5e+12	NDD	451.06	448.7	-2.3601
105	5e+12	NDD	449.08	447.38	-1.7057
106	5e+12	NDD	448.8	448.97	0.1701
107	5e+12	NDD	446.42	446.04	-0.3811
108	1e+13	NDD	448.69	446.11	-2.5872
109	1e+13	NDD	447.17	445.75	-1.4124
110	1e+13	NDD	450.38	447.34	-3.0384
111	1e+13	NDD	450.1	447.66	-2.4329
732	0	CORRELATION	448.76	448.7	-0.0553
742	0	CORRELATION	447.49	448.68	1.1843
879	0	CORRELATION	449.45	448.64	-0.8096
880	0	CORRELATION	450.71	449.35	-1.3539

NDD vs Post - Pre Exposure Delta

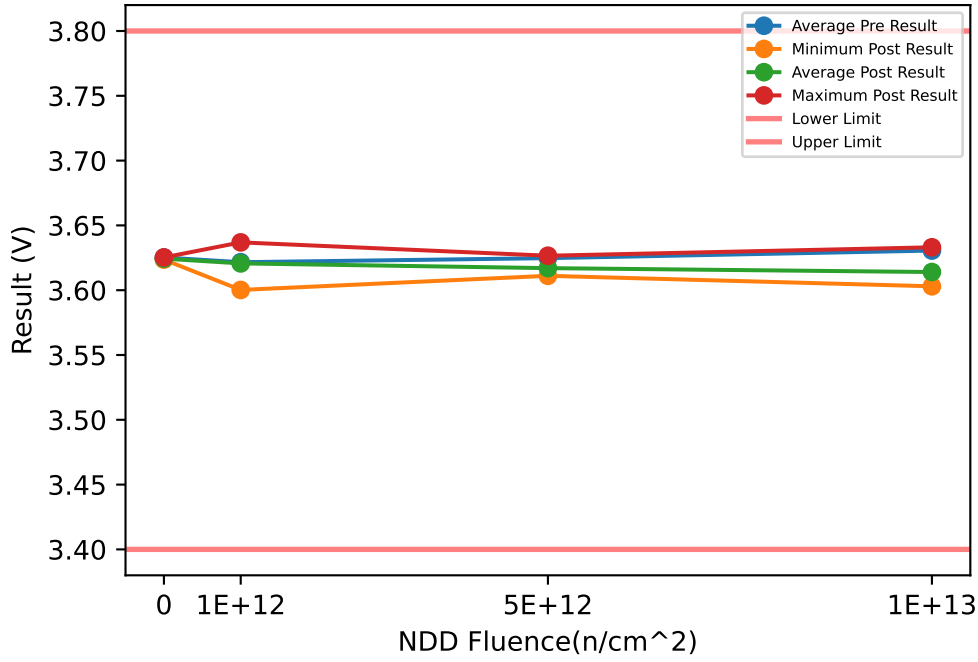


Test Statistics (mV)

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	447.49	449.1	450.71	1.3423	448.64	448.84	449.35	0.34151	-1.3539	-0.25862	1.1843	1.0995
1e+12	447.78	449.33	450.32	1.09	446.11	448.5	449.65	1.6222	-1.6787	-0.82587	0.2035	0.78041
5e+12	446.42	448.84	451.06	1.9025	446.04	447.77	448.97	1.3482	-2.3601	-1.0692	0.1701	1.1663
1e+13	447.17	449.08	450.38	1.4763	445.75	446.72	447.66	0.92877	-3.0384	-2.3677	-1.4124	0.68675

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

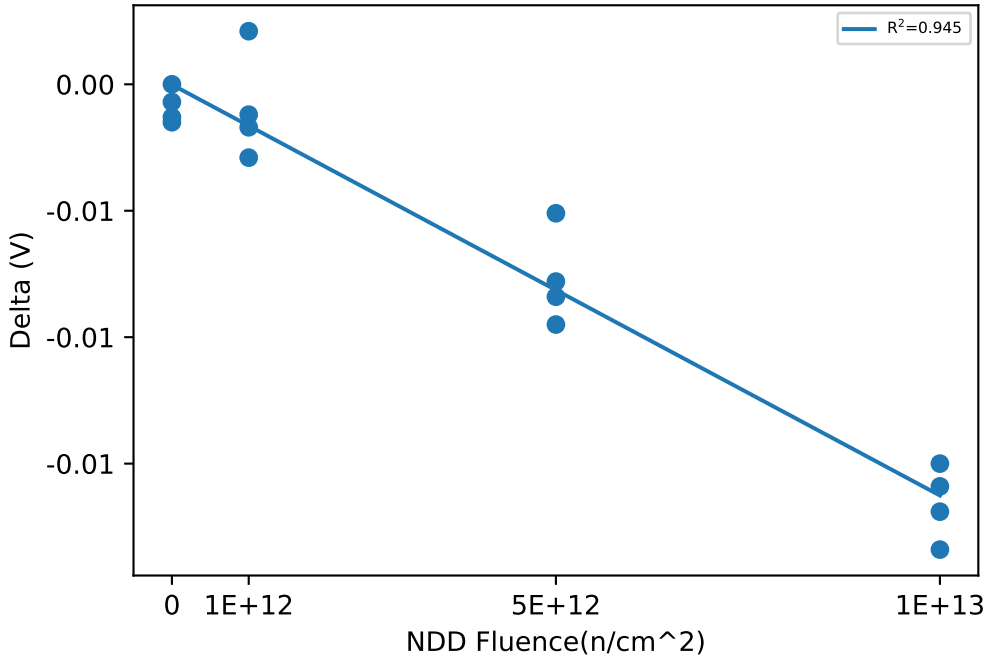
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.6168	3.6139	-0.0029
101	1e+12	NDD	3.6019	3.6002	-0.0017
102	1e+12	NDD	3.6329	3.6317	-0.0012
103	1e+12	NDD	3.6348	3.6369	0.0021
104	5e+12	NDD	3.622	3.6136	-0.0084
105	5e+12	NDD	3.6246	3.6168	-0.0078
106	5e+12	NDD	3.6206	3.6111	-0.0095
107	5e+12	NDD	3.6317	3.6266	-0.0051
108	1e+13	NDD	3.6248	3.6064	-0.0184
109	1e+13	NDD	3.6189	3.603	-0.0159
110	1e+13	NDD	3.6286	3.6136	-0.015
111	1e+13	NDD	3.65	3.6331	-0.0169
732	0	CORRELATION	3.6249	3.6236	-0.0013
742	0	CORRELATION	3.6258	3.6243	-0.0015
879	0	CORRELATION	3.6253	3.6253	0
880	0	CORRELATION	3.6249	3.6242	-0.0007

NDD vs Post - Pre Exposure Delta

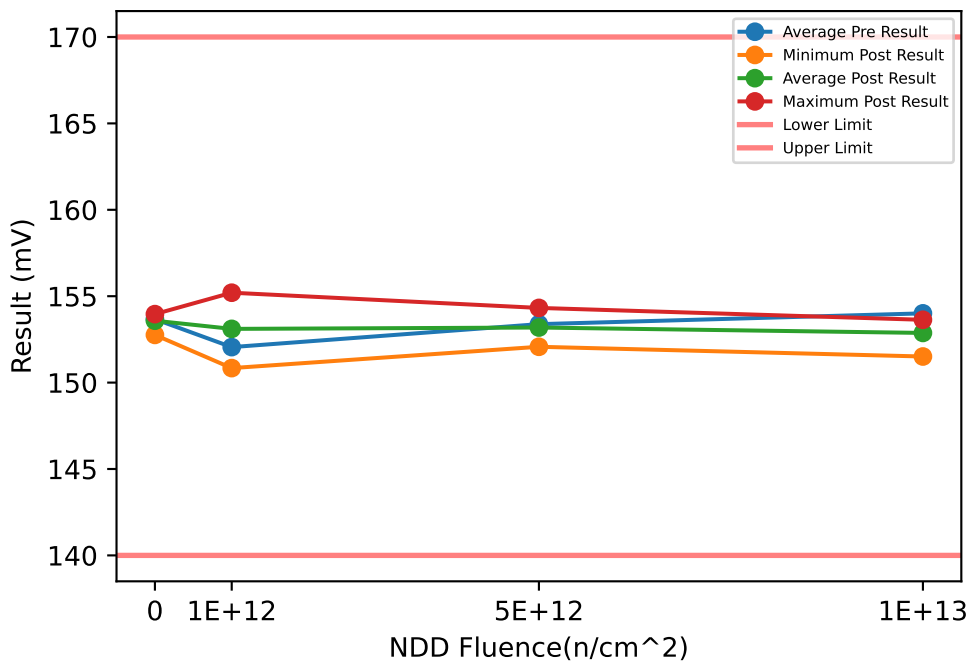


Test Statistics (V)

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	3.6249	3.6252	3.6258	0.0004272	3.6236	3.6244	3.6253	0.00070475	-0.0015	-0.000875	0	0.00067515
1e+12	3.6019	3.6216	3.6348	0.015417	3.6002	3.6207	3.6369	0.016832	-0.0029	-0.000925	0.0021	0.0021391
5e+12	3.6206	3.6247	3.6317	0.0049365	3.6111	3.617	3.6266	0.0067963	-0.0095	-0.0077	-0.0051	0.0018708
1e+13	3.6189	3.6306	3.65	0.013551	3.603	3.614	3.6331	0.013463	-0.0184	-0.01655	-0.015	0.0014572

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

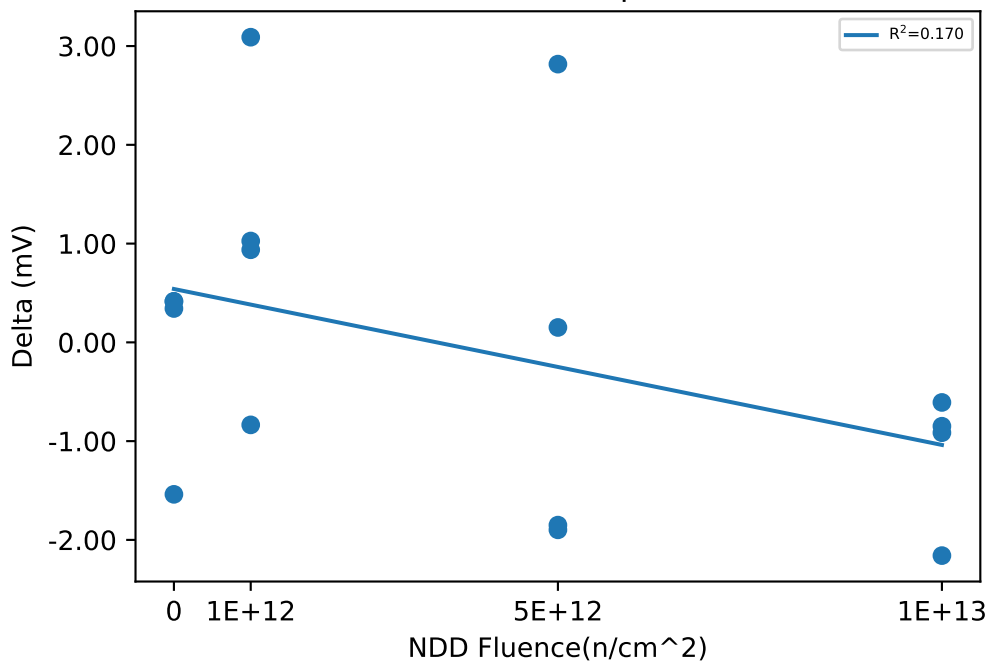
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	151.67	150.84	-0.8354
101	1e+12	NDD	151.73	152.76	1.0262
102	1e+12	NDD	152.7	153.63	0.9375
103	1e+12	NDD	152.11	155.2	3.0897
104	5e+12	NDD	154.3	152.4	-1.8981
105	5e+12	NDD	154.17	154.32	0.1509
106	5e+12	NDD	153.92	152.07	-1.8503
107	5e+12	NDD	151.14	153.95	2.8171
108	1e+13	NDD	153.63	153.03	-0.6082
109	1e+13	NDD	152.42	151.51	-0.9146
110	1e+13	NDD	154.48	153.63	-0.849
111	1e+13	NDD	155.49	153.33	-2.1589
732	0	CORRELATION	153.24	153.65	0.4148
742	0	CORRELATION	154.3	152.76	-1.5387
879	0	CORRELATION	153.61	153.95	0.3429
880	0	CORRELATION	153.55	153.96	0.4153

NDD vs Post - Pre Exposure Delta

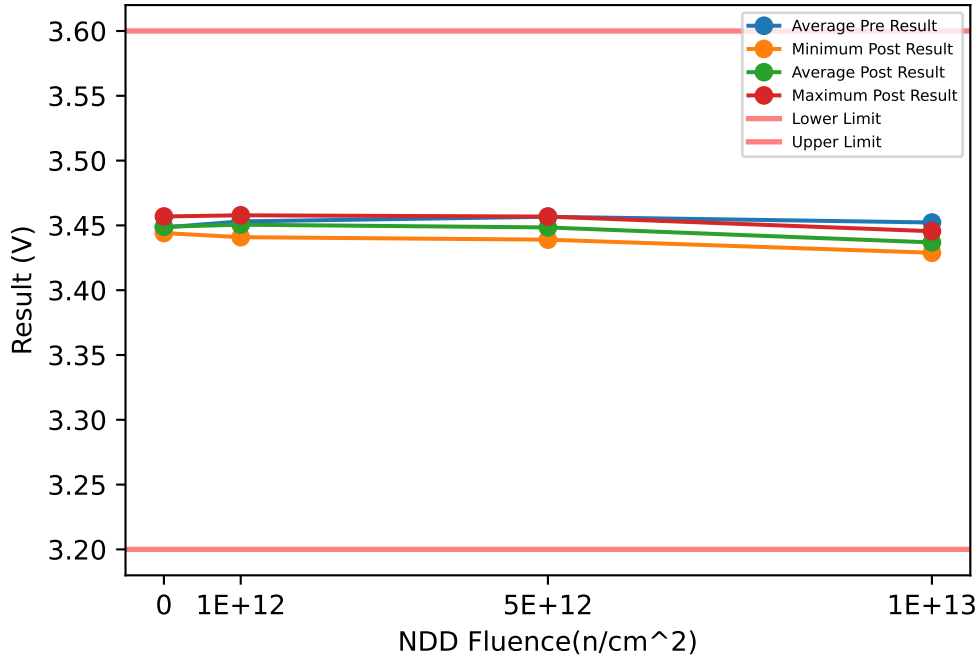


Test Statistics (mV)

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	153.24	153.67	154.3	0.44832	152.76	153.58	153.96	0.56651	-1.5387	-0.091425	0.4153	0.96545
1e+12	151.67	152.05	152.7	0.47015	150.84	153.11	155.2	1.8194	-0.8354	1.0545	3.0897	1.605
5e+12	151.14	153.38	154.3	1.5057	152.07	153.19	154.32	1.1156	-1.8981	-0.1951	2.8171	2.2236
1e+13	152.42	154.01	155.49	1.2989	151.51	152.87	153.63	0.94298	-2.1589	-1.1327	-0.6082	0.69672

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

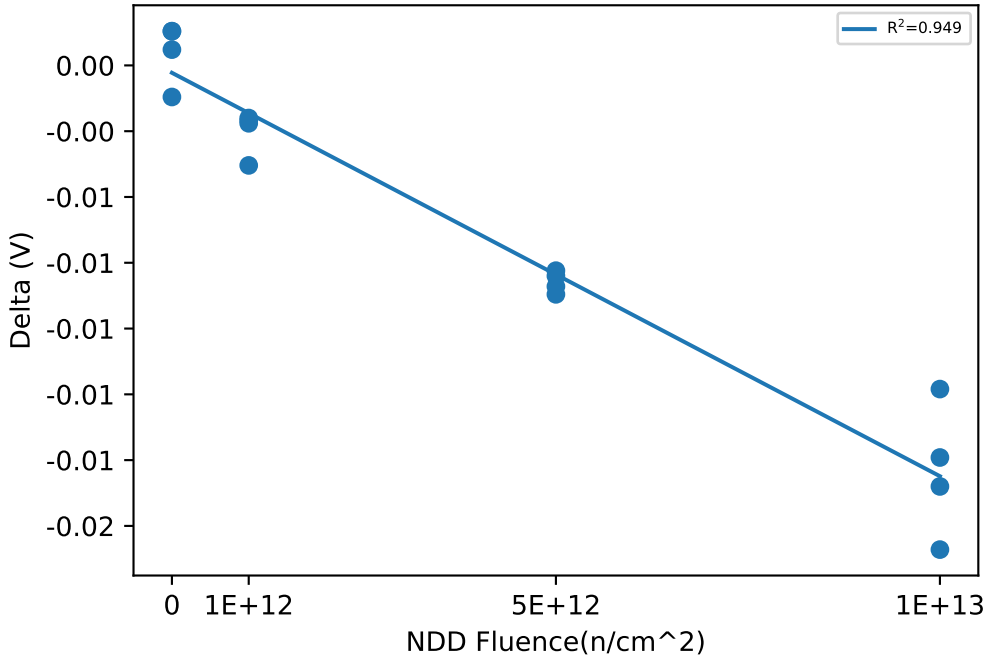
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.4447	3.4409	-0.0038
101	1e+12	NDD	3.4599	3.4578	-0.0021
102	1e+12	NDD	3.4496	3.4476	-0.002
103	1e+12	NDD	3.4581	3.4559	-0.0022
104	5e+12	NDD	3.4646	3.4568	-0.0078
105	5e+12	NDD	3.4603	3.4519	-0.0084
106	5e+12	NDD	3.454	3.446	-0.008
107	5e+12	NDD	3.4477	3.439	-0.0087
108	1e+13	NDD	3.4473	3.4289	-0.0184
109	1e+13	NDD	3.4438	3.4315	-0.0123
110	1e+13	NDD	3.4564	3.4415	-0.0149
111	1e+13	NDD	3.4615	3.4455	-0.016
732	0	CORRELATION	3.4457	3.447	0.0013
742	0	CORRELATION	3.4428	3.4441	0.0013
879	0	CORRELATION	3.4563	3.4569	0.0006
880	0	CORRELATION	3.4489	3.4477	-0.0012

NDD vs Post - Pre Exposure Delta

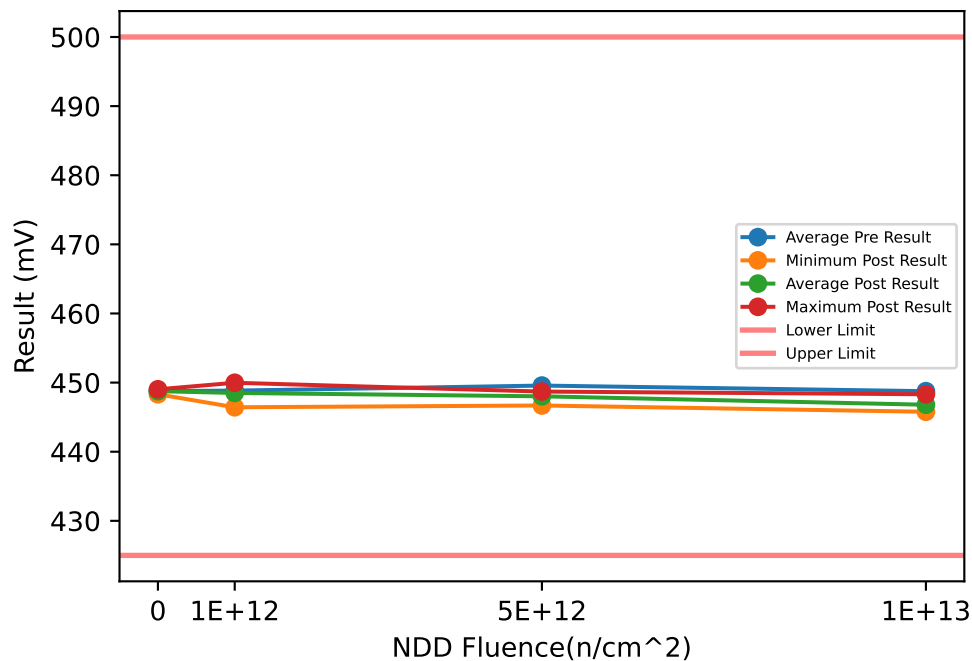


Test Statistics (V)

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	3.4428	3.4484	3.4563	0.0058111	3.4441	3.4489	3.4569	0.0055404	-0.0012	0.0005	0.0013	0.0011804
1e+12	3.4447	3.4531	3.4599	0.0071658	3.4409	3.4506	3.4578	0.0078105	-0.0038	-0.002525	-0.002	0.00085391
5e+12	3.4477	3.4567	3.4646	0.0073858	3.439	3.4484	3.4568	0.0076796	-0.0087	-0.008225	-0.0078	0.00040311
1e+13	3.4438	3.4522	3.4615	0.0081382	3.4289	3.4369	3.4455	0.0079219	-0.0184	-0.0154	-0.0123	0.0025311

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

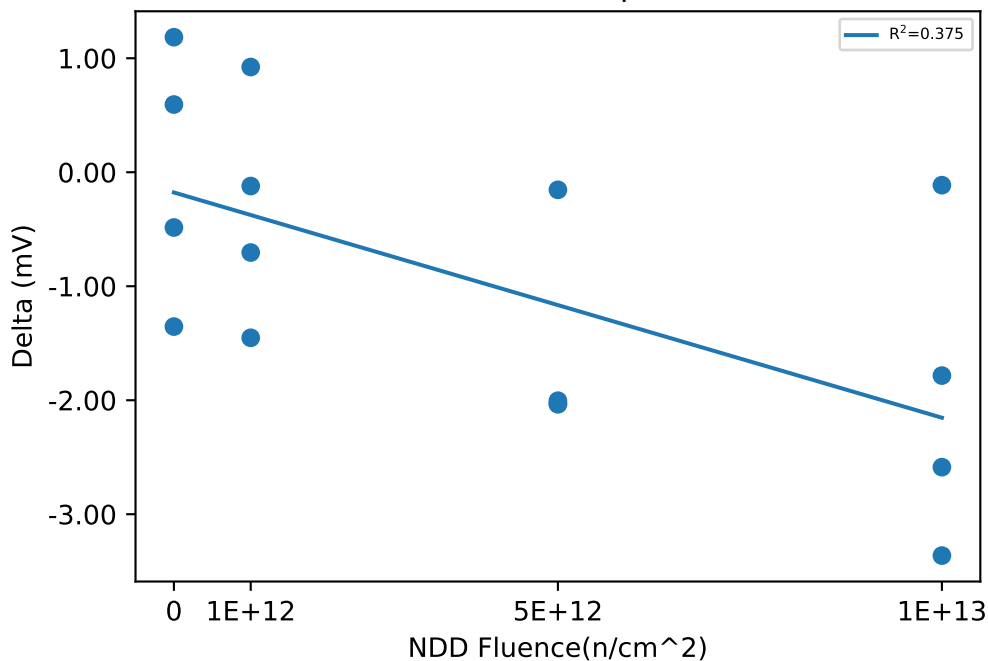
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	447.13	446.43	-0.7043
101	1e+12	NDD	450.1	449.97	-0.1211
102	1e+12	NDD	449.02	449.94	0.923
103	1e+12	NDD	449.11	447.66	-1.4522
104	5e+12	NDD	450.74	448.7	-2.0354
105	5e+12	NDD	450.06	448.03	-2.0304
106	5e+12	NDD	448.8	448.64	-0.1544
107	5e+12	NDD	448.69	446.69	-2.0042
108	1e+13	NDD	448.37	445.78	-2.5871
109	1e+13	NDD	446.19	446.08	-0.1134
110	1e+13	NDD	450.38	447.02	-3.3629
111	1e+13	NDD	450.1	448.31	-1.7837
732	0	CORRELATION	448.43	449.03	0.5941
742	0	CORRELATION	447.82	449	1.1846
879	0	CORRELATION	448.8	448.31	-0.4848
880	0	CORRELATION	450.06	448.7	-1.354

NDD vs Post - Pre Exposure Delta

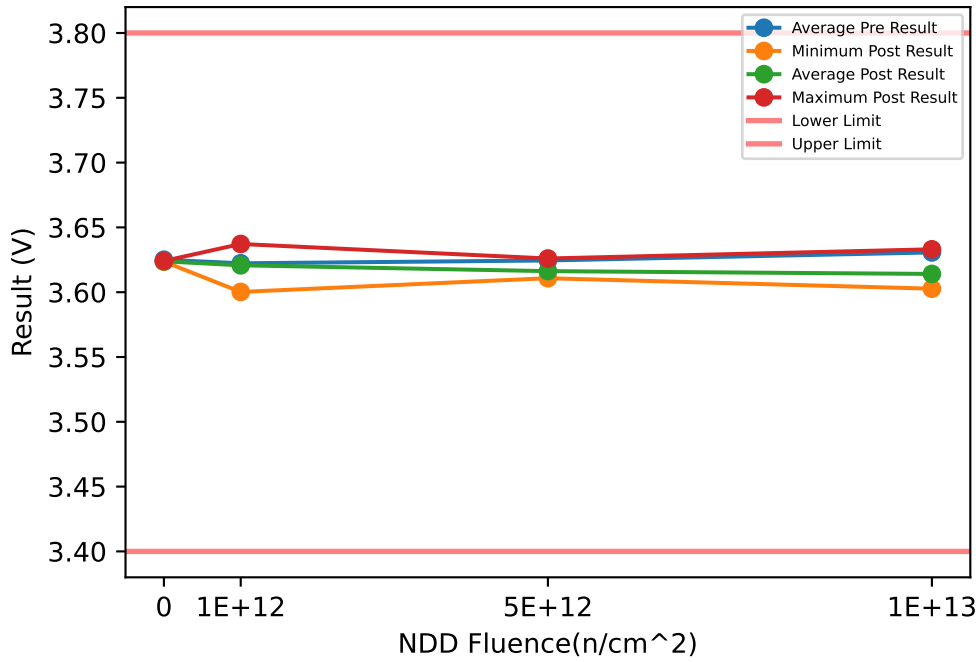


Test Statistics (mV)

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	447.82	448.78	450.06	0.94524	448.31	448.76	449.03	0.33348	-1.354	-0.015025	1.1846	1.129
1e+12	447.13	448.84	450.1	1.2371	446.43	448.5	449.97	1.7544	-1.4522	-0.33865	0.923	1.0021
5e+12	448.69	449.57	450.74	0.995	446.69	448.01	448.7	0.93554	-2.0354	-1.5561	-0.1544	0.93457
1e+13	446.19	448.76	450.38	1.9289	445.78	446.8	448.31	1.139	-3.3629	-1.9618	-0.1134	1.3907

Device Test: 14.22 THRESHOLD|RISE/VIN/14/////@UVLO_RISE_VIN

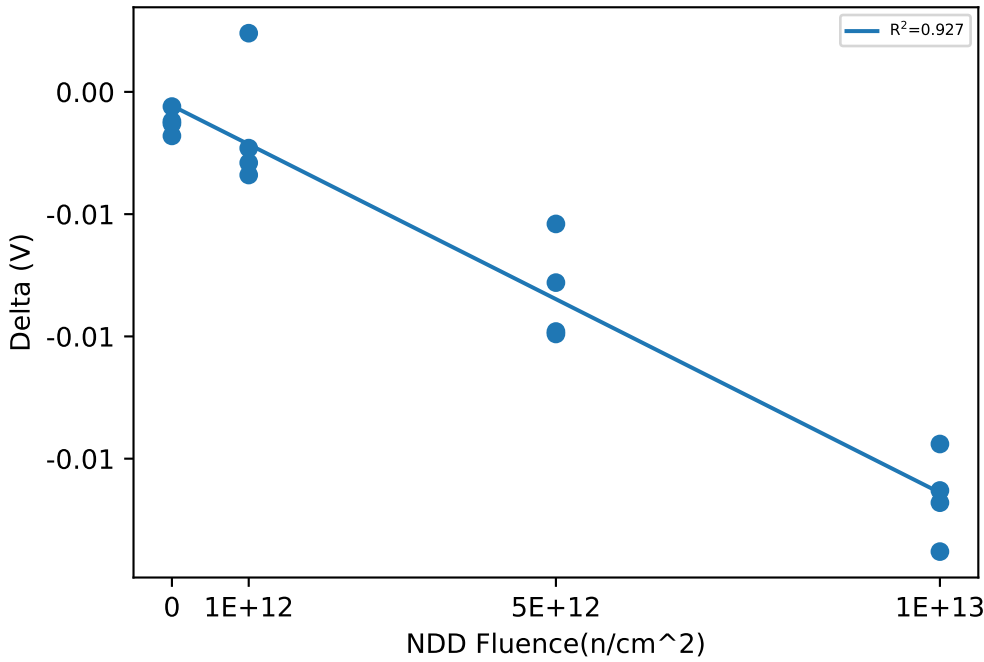
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.6168	3.6139	-0.0029
101	1e+12	NDD	3.6025	3.6002	-0.0023
102	1e+12	NDD	3.6351	3.6317	-0.0034
103	1e+12	NDD	3.6348	3.6372	0.0024
104	5e+12	NDD	3.6217	3.6139	-0.0078
105	5e+12	NDD	3.6242	3.6143	-0.0099
106	5e+12	NDD	3.6206	3.6108	-0.0098
107	5e+12	NDD	3.6314	3.626	-0.0054
108	1e+13	NDD	3.6255	3.6067	-0.0188
109	1e+13	NDD	3.6195	3.6027	-0.0168
110	1e+13	NDD	3.6283	3.6139	-0.0144
111	1e+13	NDD	3.6494	3.6331	-0.0163
732	0	CORRELATION	3.6242	3.6236	-0.0006
742	0	CORRELATION	3.6258	3.624	-0.0018
879	0	CORRELATION	3.6253	3.6241	-0.0012
880	0	CORRELATION	3.6249	3.6236	-0.0013

NDD vs Post - Pre Exposure Delta

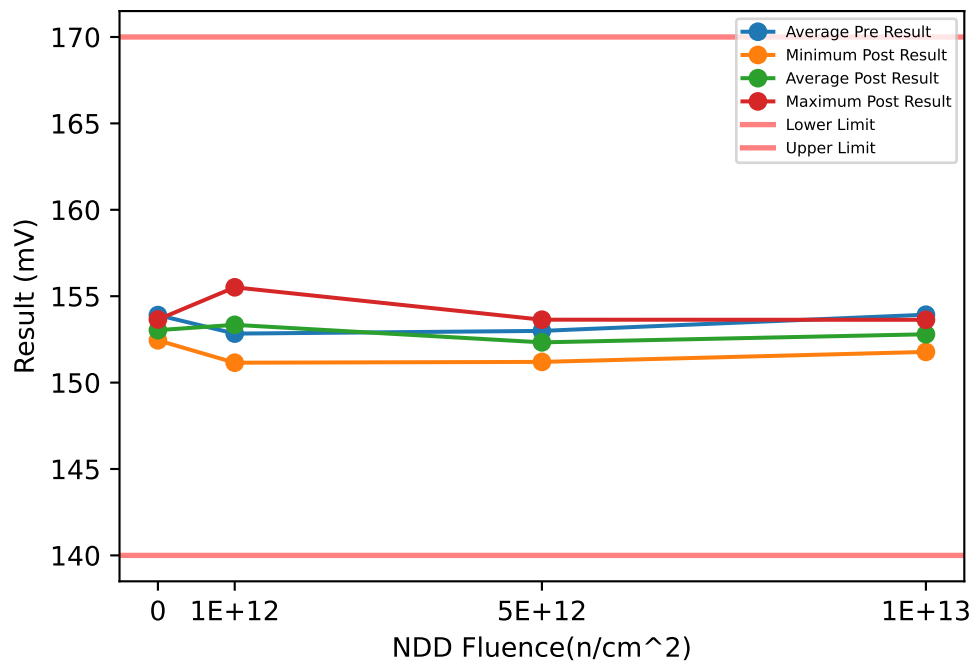


Test Statistics (V)

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	3.6242	3.625	3.6258	0.00067577	3.6236	3.6238	3.6241	0.000263	-0.0018	-0.001225	-0.0006	0.00049244
1e+12	3.6025	3.6223	3.6351	0.015731	3.6002	3.6208	3.6372	0.016929	-0.0034	-0.00155	0.0024	0.0026715
5e+12	3.6206	3.6245	3.6314	0.0048562	3.6108	3.6162	3.626	0.0066856	-0.0099	-0.008225	-0.0054	0.0021172
1e+13	3.6195	3.6307	3.6494	0.013012	3.6027	3.6141	3.6331	0.013488	-0.0188	-0.016575	-0.0144	0.0018081

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

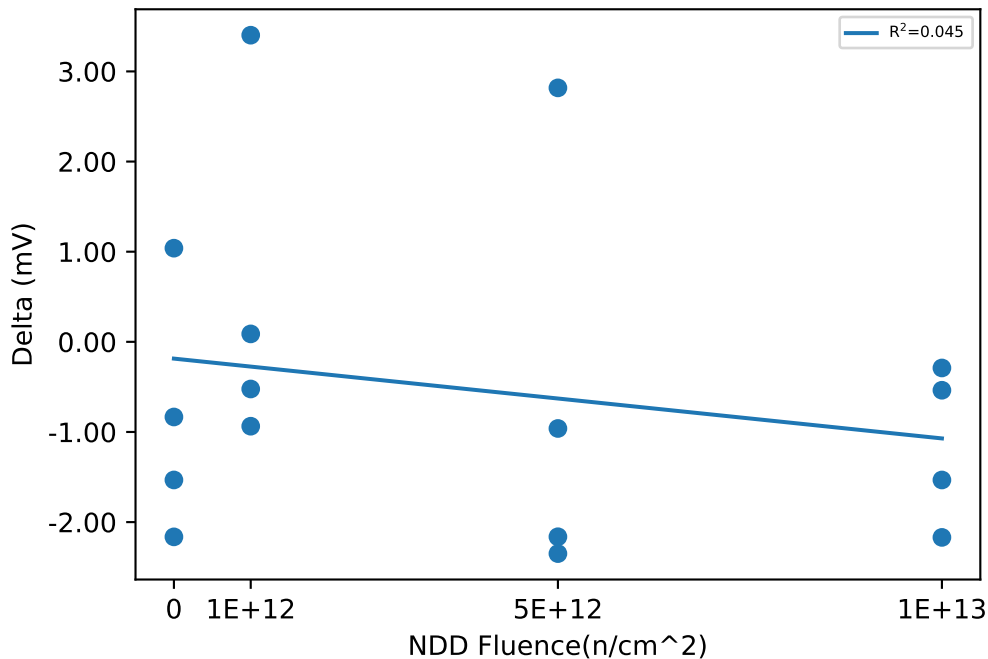
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	151.67	151.15	-0.5231
101	1e+12	NDD	152.67	152.76	0.088
102	1e+12	NDD	154.88	153.95	-0.9361
103	1e+12	NDD	152.11	155.51	3.4018
104	5e+12	NDD	153.67	152.71	-0.9611
105	5e+12	NDD	153.55	151.2	-2.3493
106	5e+12	NDD	153.92	151.76	-2.1624
107	5e+12	NDD	150.82	153.64	2.8174
108	1e+13	NDD	153.95	151.78	-2.1696
109	1e+13	NDD	153.05	152.76	-0.2899
110	1e+13	NDD	154.17	153.63	-0.5371
111	1e+13	NDD	154.55	153.02	-1.5326
732	0	CORRELATION	152.61	153.65	1.039
742	0	CORRELATION	154.61	152.45	-2.1637
879	0	CORRELATION	154.24	152.7	-1.5323
880	0	CORRELATION	154.17	153.34	-0.8337

NDD vs Post - Pre Exposure Delta

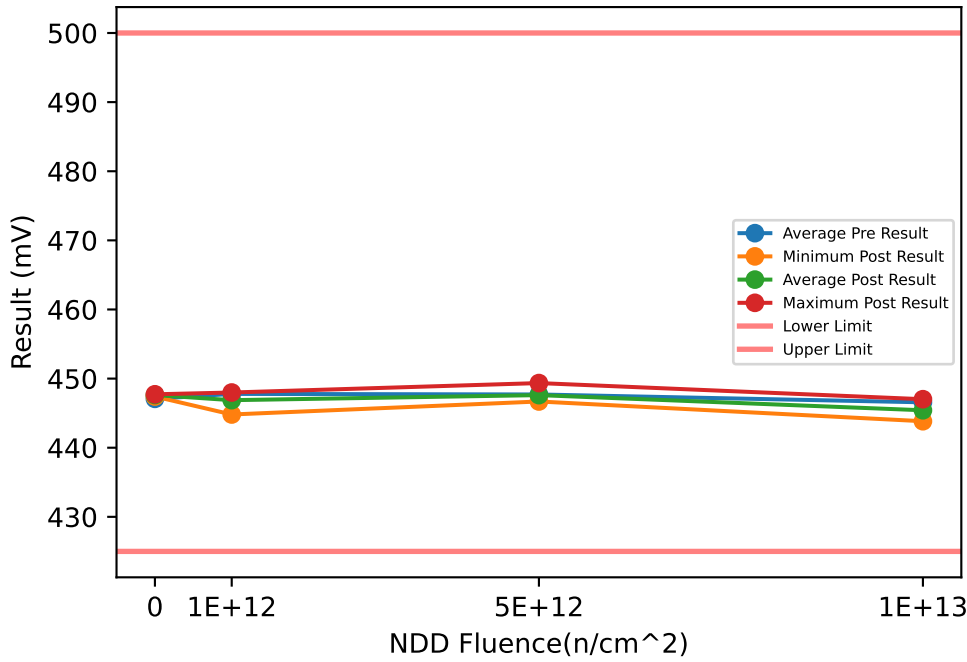


Test Statistics (mV)

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	152.61	153.91	154.61	0.88576	152.45	153.03	153.65	0.55518	-2.1637	-0.87267	1.039	1.3854
1e+12	151.67	152.84	154.88	1.4247	151.15	153.34	155.51	1.8458	-0.9361	0.50765	3.4018	1.9748
5e+12	150.82	152.99	153.92	1.4542	151.2	152.33	153.64	1.0755	-2.3493	-0.66385	2.8174	2.401
1e+13	153.05	153.93	154.55	0.63685	151.78	152.8	153.63	0.77297	-2.1696	-1.1323	-0.2899	0.87562

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

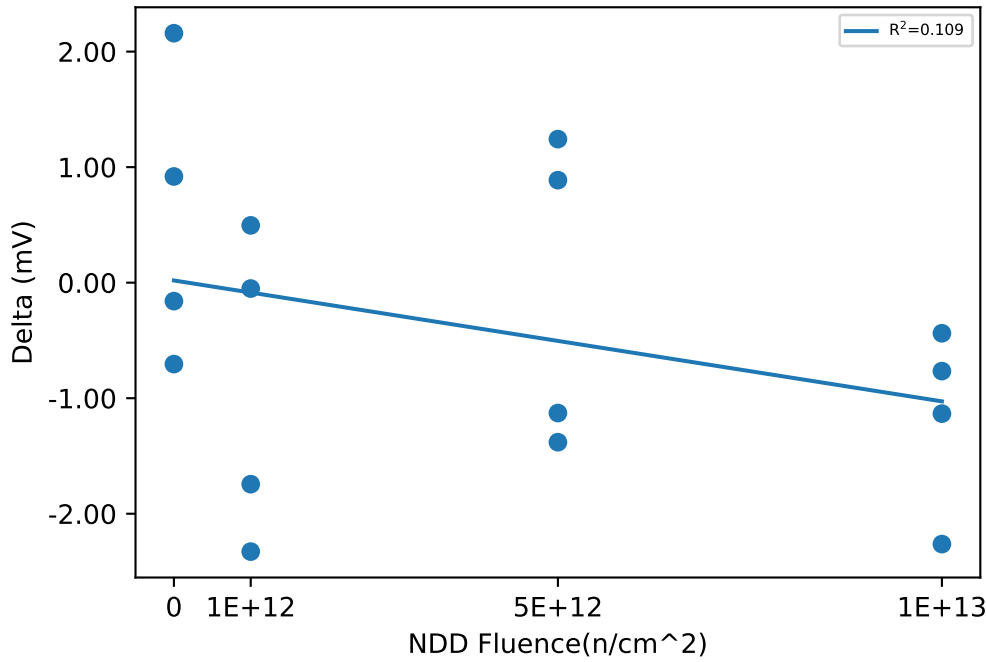
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	447.13	444.81	-2.3277
101	1e+12	NDD	449.12	447.38	-1.7442
102	1e+12	NDD	447.39	447.34	-0.0509
103	1e+12	NDD	447.49	447.99	0.4959
104	5e+12	NDD	448.47	449.35	0.8872
105	5e+12	NDD	448.76	447.38	-1.3809
106	5e+12	NDD	448.15	447.02	-1.1284
107	5e+12	NDD	445.45	446.69	1.2424
108	1e+13	NDD	446.1	443.83	-2.2627
109	1e+13	NDD	444.89	444.45	-0.4379
110	1e+13	NDD	447.78	447.02	-0.7655
111	1e+13	NDD	447.5	446.36	-1.1335
732	0	CORRELATION	448.11	447.4	-0.7047
742	0	CORRELATION	445.54	447.7	2.1593
879	0	CORRELATION	447.82	447.66	-0.1598
880	0	CORRELATION	446.81	447.73	0.9192

NDD vs Post - Pre Exposure Delta

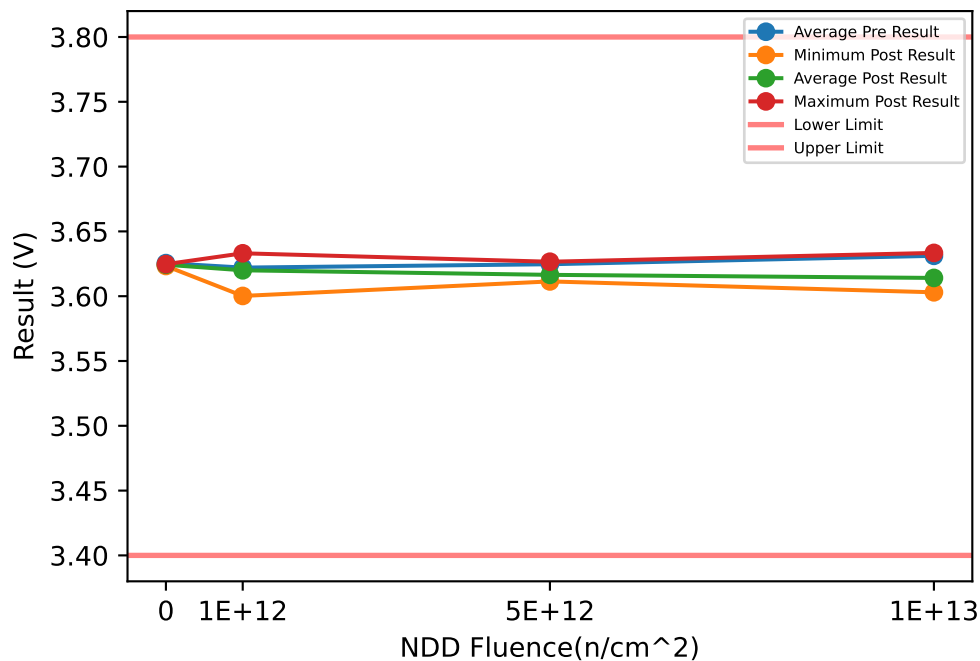


Test Statistics (mV)

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	445.54	447.07	448.11	1.1613	447.4	447.62	447.73	0.1494	-0.7047	0.5535	2.1593	1.2655
1e+12	447.13	447.79	449.12	0.90326	444.81	446.88	447.99	1.4124	-2.3277	-0.90673	0.4959	1.3442
5e+12	445.45	447.7	448.76	1.5258	446.69	447.61	449.35	1.1957	-1.3809	-0.094925	1.2424	1.3509
1e+13	444.89	446.57	447.78	1.3381	443.83	445.42	447.02	1.5163	-2.2627	-1.1499	-0.4379	0.79442

Device Test: 14.4 THRESHOLD|RISE/VIN/4.5////@UVLO_RISE_VIN

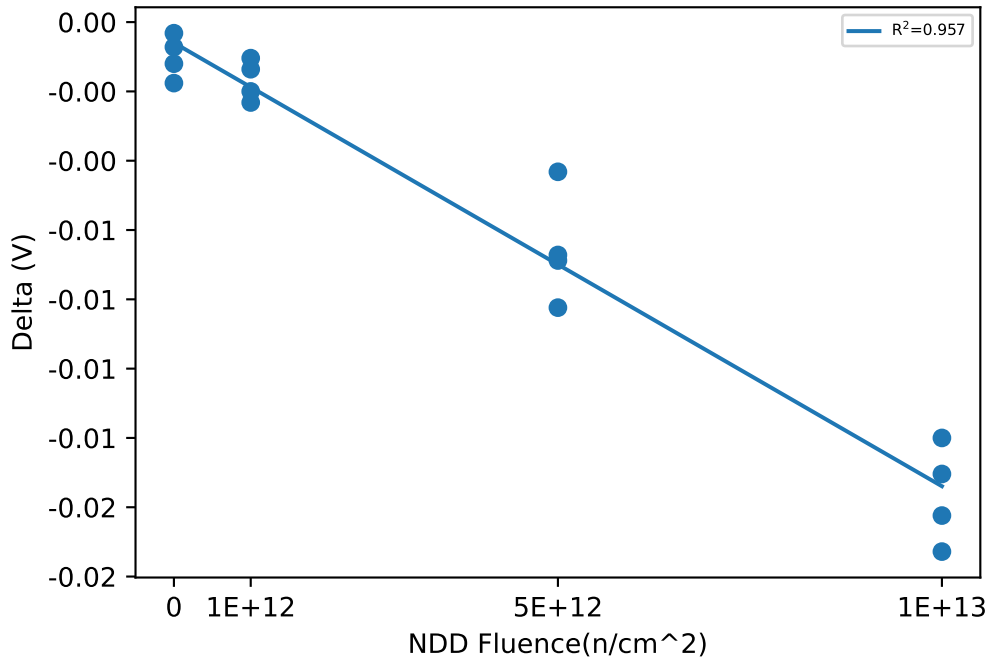
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.6171	3.6158	-0.0013
101	1e+12	NDD	3.6031	3.6002	-0.0029
102	1e+12	NDD	3.6333	3.6308	-0.0025
103	1e+12	NDD	3.6348	3.6331	-0.0017
104	5e+12	NDD	3.622	3.6136	-0.0084
105	5e+12	NDD	3.6246	3.6143	-0.0103
106	5e+12	NDD	3.62	3.6114	-0.0086
107	5e+12	NDD	3.632	3.6266	-0.0054
108	1e+13	NDD	3.6255	3.6064	-0.0191
109	1e+13	NDD	3.6208	3.603	-0.0178
110	1e+13	NDD	3.6286	3.6136	-0.015
111	1e+13	NDD	3.6497	3.6334	-0.0163
732	0	CORRELATION	3.6249	3.6245	-0.0004
742	0	CORRELATION	3.6261	3.6246	-0.0015
879	0	CORRELATION	3.6256	3.6247	-0.0009
880	0	CORRELATION	3.6255	3.6233	-0.0022

NDD vs Post - Pre Exposure Delta

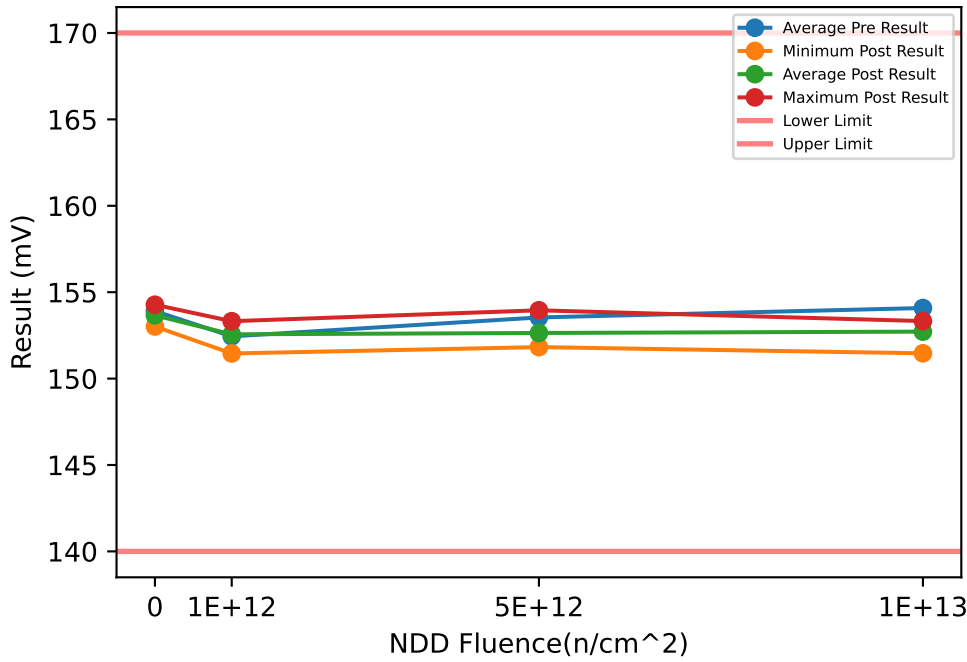


Test Statistics (V)

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	3.6249	3.6255	3.6261	0.00049244	3.6233	3.6243	3.6247	0.00065511	-0.0022	-0.00125	-0.0004	0.00077675
1e+12	3.6031	3.6221	3.6348	0.014975	3.6002	3.62	3.6331	0.015253	-0.0029	-0.0021	-0.0013	0.0007303
5e+12	3.62	3.6246	3.632	0.0052494	3.6114	3.6165	3.6266	0.0068622	-0.0103	-0.008175	-0.0054	0.002037
1e+13	3.6208	3.6311	3.6497	0.012776	3.603	3.6141	3.6334	0.013604	-0.0191	-0.01705	-0.015	0.0017823

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

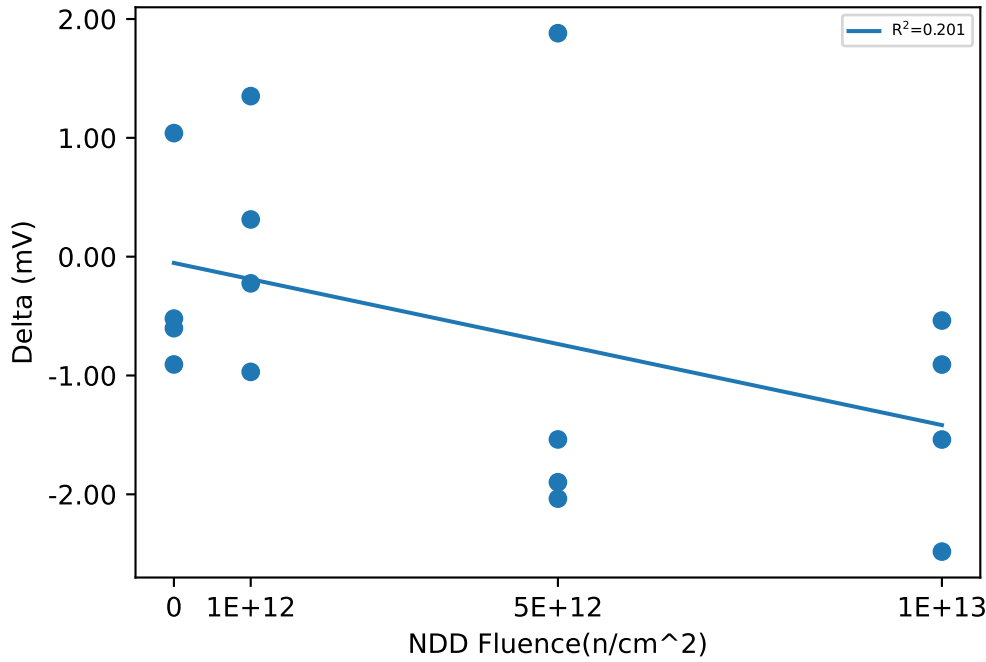
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	151.67	153.03	1.3509
101	1e+12	NDD	152.67	152.45	-0.2246
102	1e+12	NDD	153.01	153.32	0.313
103	1e+12	NDD	152.42	151.45	-0.9696
104	5e+12	NDD	154.3	152.4	-1.8981
105	5e+12	NDD	153.86	151.82	-2.0363
106	5e+12	NDD	153.92	152.38	-1.5382
107	5e+12	NDD	152.07	153.95	1.8806
108	1e+13	NDD	153.95	151.46	-2.482
109	1e+13	NDD	154.61	153.07	-1.539
110	1e+13	NDD	153.55	153.01	-0.5374
111	1e+13	NDD	154.24	153.33	-0.9079
732	0	CORRELATION	153.24	154.27	1.0397
742	0	CORRELATION	154.61	154.01	-0.6018
879	0	CORRELATION	153.92	153.02	-0.9071
880	0	CORRELATION	153.86	153.34	-0.5212

NDD vs Post - Pre Exposure Delta

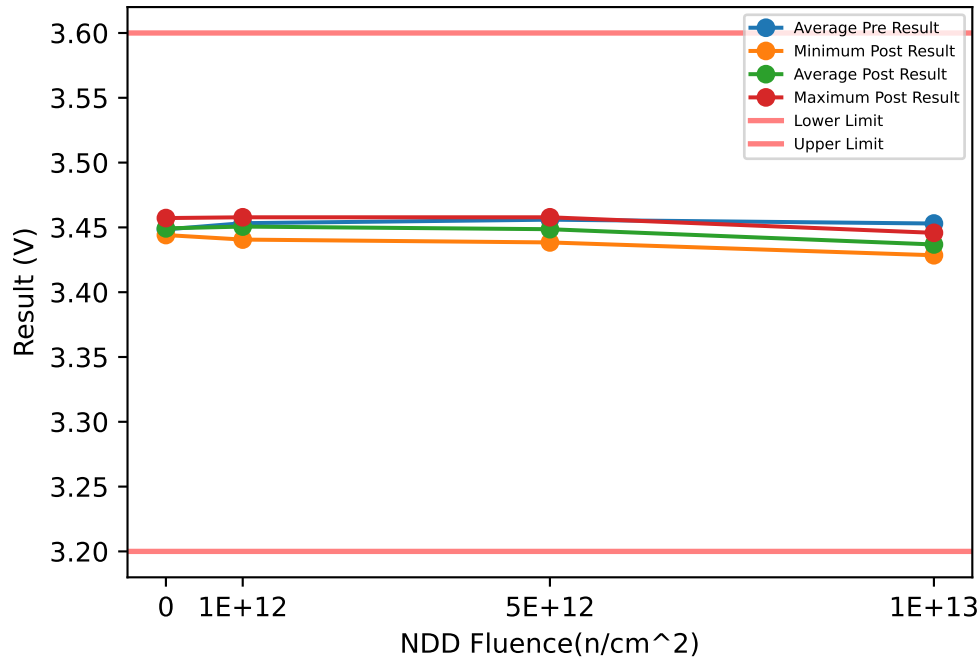


Test Statistics (mV)

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	153.24	153.91	154.61	0.56262	153.02	153.66	154.27	0.58266	-0.9071	-0.2476	1.0397	0.87415
1e+12	151.67	152.44	153.01	0.56675	151.45	152.56	153.32	0.8228	-0.9696	0.11743	1.3509	0.9761
5e+12	152.07	153.54	154.3	0.99642	151.82	152.64	153.95	0.91542	-2.0363	-0.898	1.8806	1.8643
1e+13	153.55	154.08	154.61	0.45038	151.46	152.72	153.33	0.84775	-2.482	-1.3666	-0.5374	0.85085

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

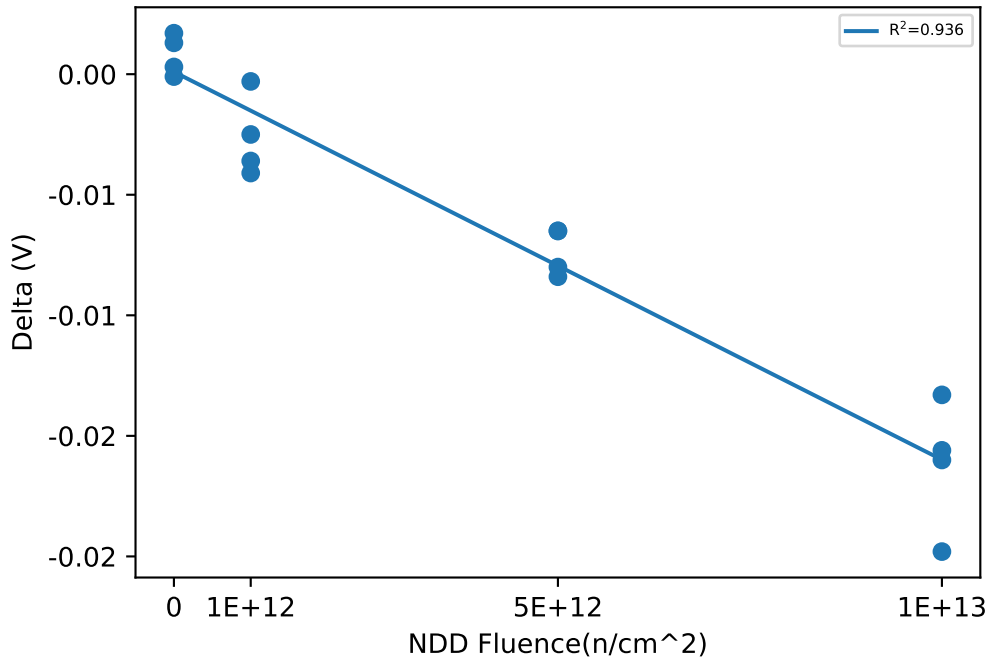
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.4447	3.4406	-0.0041
101	1e+12	NDD	3.4596	3.4571	-0.0025
102	1e+12	NDD	3.4506	3.447	-0.0036
103	1e+12	NDD	3.4581	3.4578	-0.0003
104	5e+12	NDD	3.4643	3.4578	-0.0065
105	5e+12	NDD	3.4597	3.4532	-0.0065
106	5e+12	NDD	3.4534	3.445	-0.0084
107	5e+12	NDD	3.4464	3.4384	-0.008
108	1e+13	NDD	3.4483	3.4285	-0.0198
109	1e+13	NDD	3.4445	3.4312	-0.0133
110	1e+13	NDD	3.4574	3.4418	-0.0156
111	1e+13	NDD	3.4618	3.4458	-0.016
732	0	CORRELATION	3.4457	3.4474	0.0017
742	0	CORRELATION	3.4428	3.4441	0.0013
879	0	CORRELATION	3.4573	3.4572	-0.0001
880	0	CORRELATION	3.448	3.4483	0.0003

NDD vs Post - Pre Exposure Delta

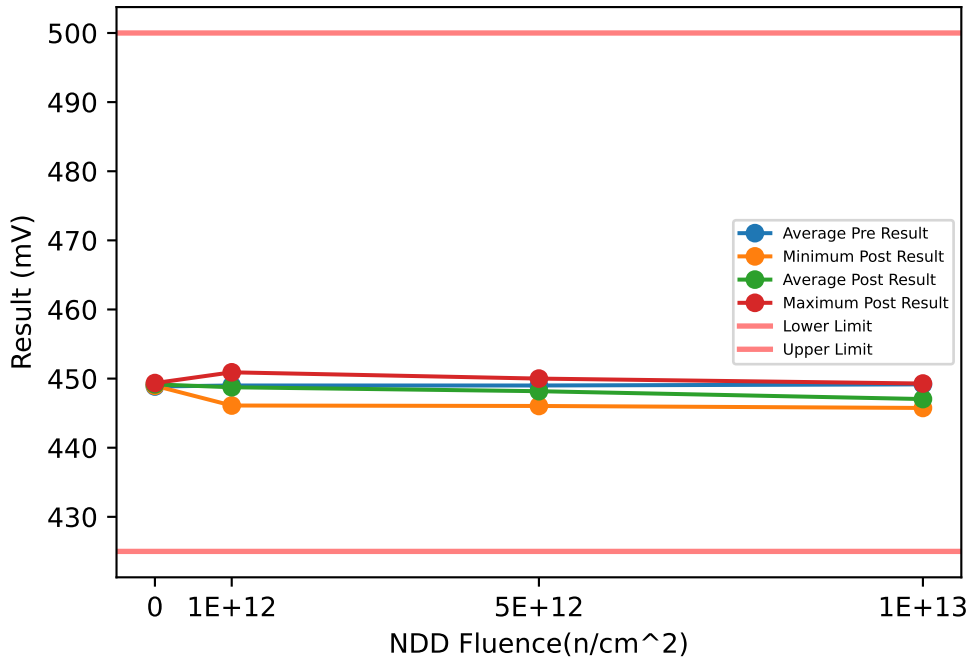


Test Statistics (V)

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	3.4428	3.4485	3.4573	0.0062719	3.4441	3.4493	3.4572	0.0055991	-0.0001	0.0008	0.0017	0.00084063
1e+12	3.4447	3.4533	3.4596	0.0069275	3.4406	3.4506	3.4578	0.0083076	-0.0041	-0.002625	-0.0003	0.0016879
5e+12	3.4464	3.456	3.4643	0.007778	3.4384	3.4486	3.4578	0.0086178	-0.0084	-0.00735	-0.0065	0.00099499
1e+13	3.4445	3.453	3.4618	0.0079821	3.4285	3.4368	3.4458	0.0082915	-0.0198	-0.016175	-0.0133	0.0026937

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

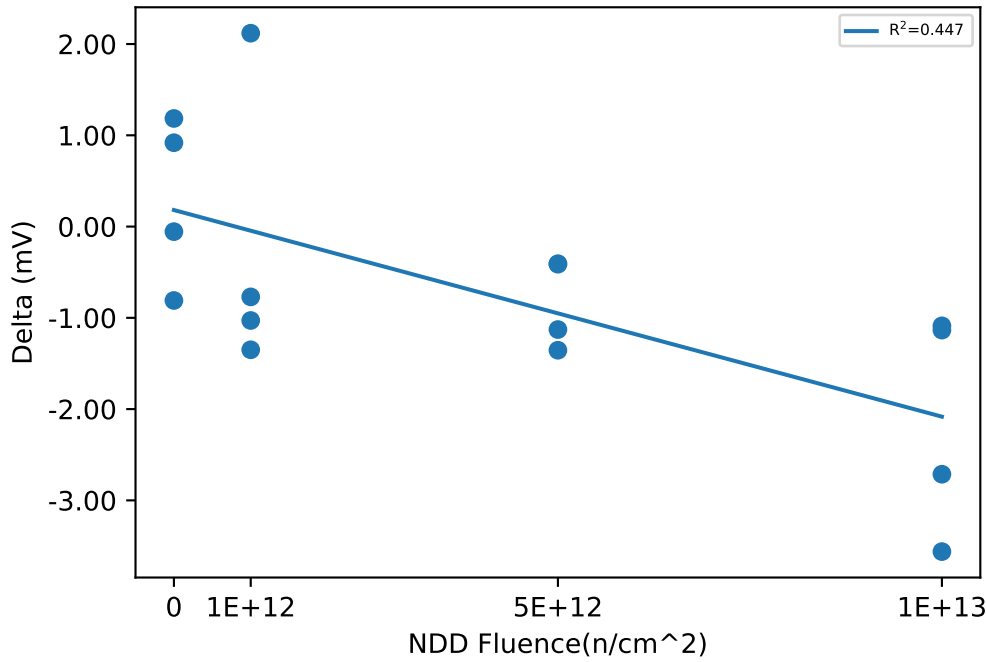
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	447.13	446.11	-1.029
101	1e+12	NDD	449.45	448.68	-0.7704
102	1e+12	NDD	450.64	449.29	-1.3498
103	1e+12	NDD	448.79	450.91	2.1188
104	5e+12	NDD	450.41	450	-0.412
105	5e+12	NDD	449.73	449.32	-0.407
106	5e+12	NDD	448.47	447.34	-1.1284
107	5e+12	NDD	447.39	446.04	-1.355
108	1e+13	NDD	449.34	445.78	-3.5613
109	1e+13	NDD	446.84	445.75	-1.0877
110	1e+13	NDD	450.06	447.34	-2.7135
111	1e+13	NDD	450.42	449.29	-1.1344
732	0	CORRELATION	448.43	449.35	0.9189
742	0	CORRELATION	447.82	449	1.1846
879	0	CORRELATION	449.77	448.96	-0.8098
880	0	CORRELATION	449.41	449.35	-0.0555

NDD vs Post - Pre Exposure Delta

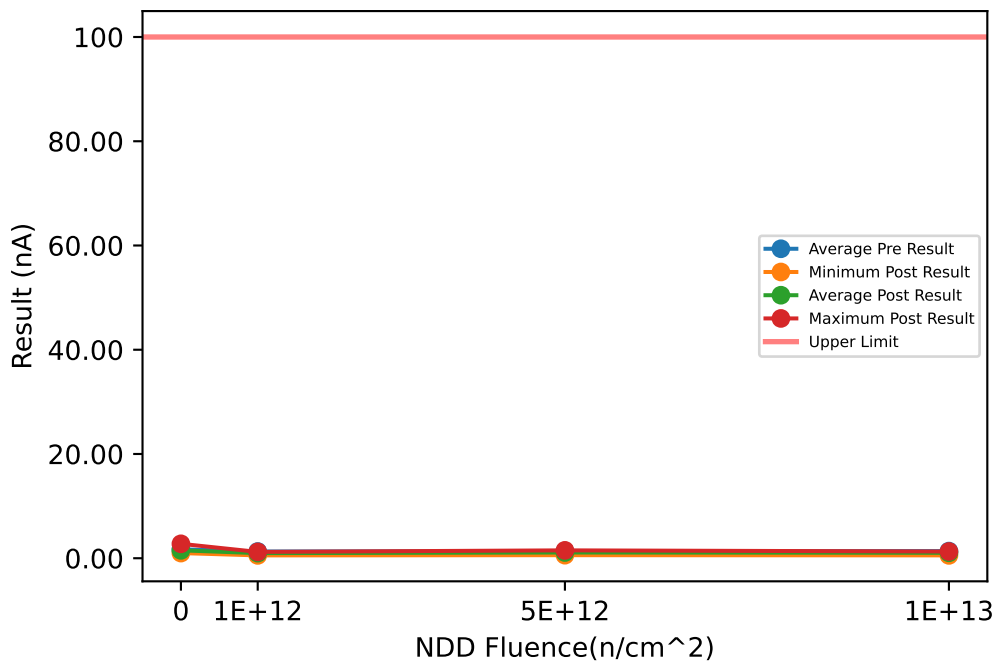


Test Statistics (mV)

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	447.82	448.86	449.77	0.8947	448.96	449.17	449.35	0.21515	-0.8098	0.30955	1.1846	0.9171
1e+12	447.13	449	450.64	1.4623	446.11	448.75	450.91	1.996	-1.3498	-0.2576	2.1188	1.6019
5e+12	447.39	449	450.41	1.3407	446.04	448.18	450	1.8178	-1.355	-0.8256	-0.407	0.4893
1e+13	446.84	449.17	450.42	1.6126	445.75	447.04	449.29	1.6708	-3.5613	-2.1242	-1.0877	1.2202

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

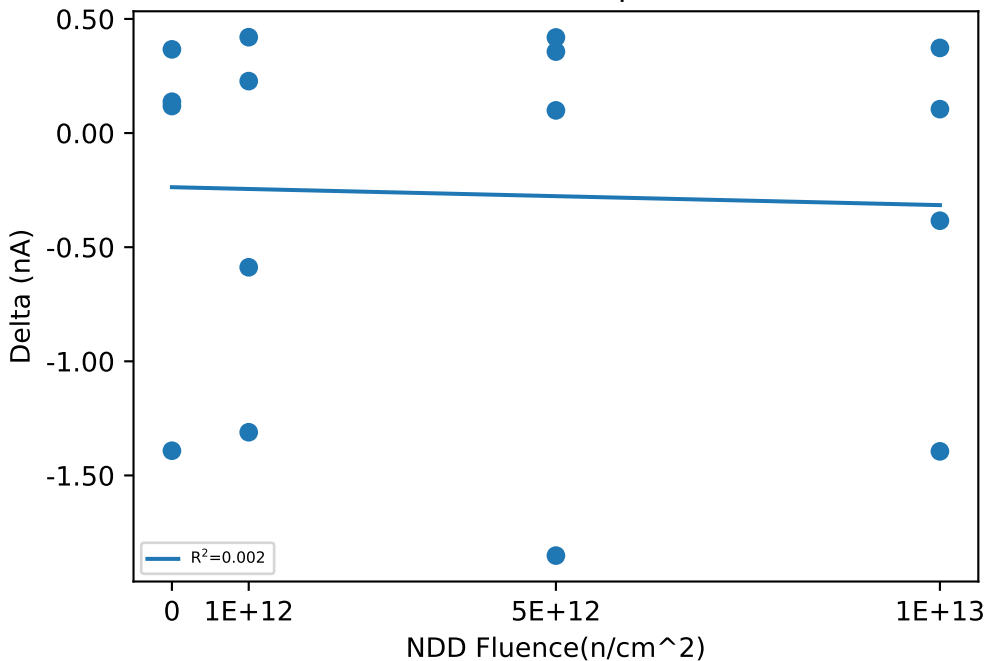
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.8342	1.0618	0.2276
101	1e+12	NDD	2.4044	1.0936	-1.3108
102	1e+12	NDD	1.1318	0.5438	-0.588
103	1e+12	NDD	0.7955	1.2155	0.42
104	5e+12	NDD	0.733	1.0899	0.3569
105	5e+12	NDD	1.0931	1.512	0.4189
106	5e+12	NDD	2.4356	0.5844	-1.8512
107	5e+12	NDD	1.1131	1.2124	0.0993
108	1e+13	NDD	1.0475	1.1523	0.1048
109	1e+13	NDD	0.8111	1.1841	0.373
110	1e+13	NDD	0.9309	0.5469	-0.384
111	1e+13	NDD	2.685	1.2905	-1.3945
732	0	CORRELATION	0.8716	0.99	0.1184
742	0	CORRELATION	2.3975	2.7642	0.3667
879	0	CORRELATION	2.5011	1.1094	-1.3917
880	0	CORRELATION	1.065	1.2023	0.1373

NDD vs Post - Pre Exposure Delta

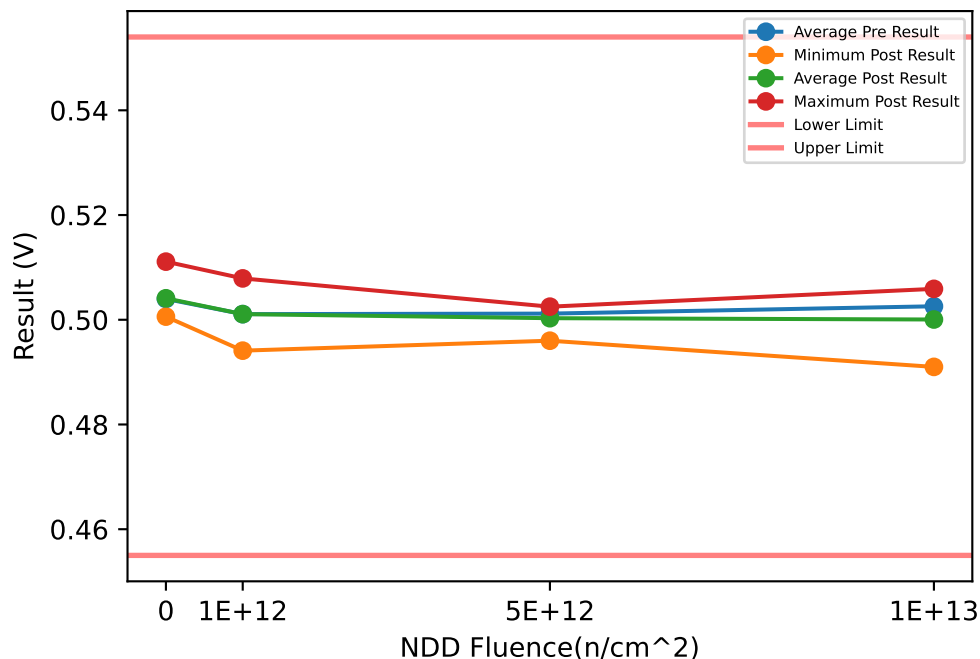


Test Statistics (nA)

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	0.8716	1.7088	2.5011	0.85973	0.99	1.5165	2.7642	0.83634	-1.3917	-0.19232	0.3667	0.80751
1e+12	0.7955	1.2915	2.4044	0.75701	0.5438	0.97867	1.2155	0.29739	-1.3108	-0.3128	0.42	0.79598
5e+12	0.733	1.3437	2.4356	0.74859	0.5844	1.0997	1.512	0.38658	-1.8512	-0.24402	0.4189	1.0803
1e+13	0.8111	1.3686	2.685	0.88287	0.5469	1.0434	1.2905	0.33627	-1.3945	-0.32517	0.373	0.77873

Device Test: 15.10 THRESHOLD|FALL/EN/12////@EN_VTH_FALLING

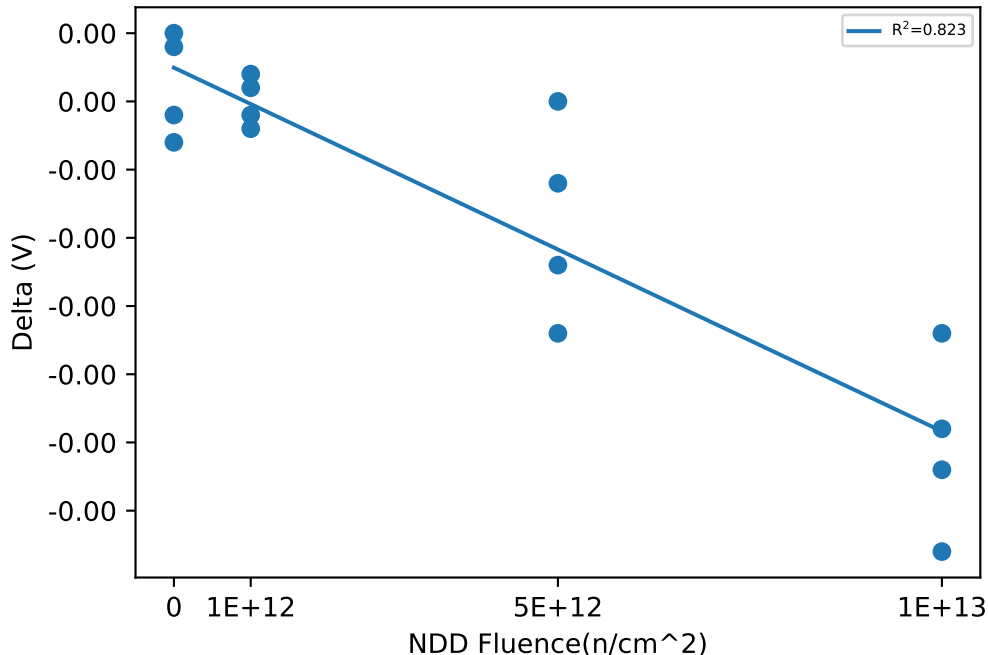
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4942	0.4941	-0.0001
101	1e+12	NDD	0.4984	0.4985	0.0001
102	1e+12	NDD	0.5036	0.5038	0.0002
103	1e+12	NDD	0.5081	0.5079	-0.0002
104	5e+12	NDD	0.5037	0.5025	-0.0012
105	5e+12	NDD	0.5027	0.501	-0.0017
106	5e+12	NDD	0.4966	0.496	-0.0006
107	5e+12	NDD	0.5017	0.5017	0
108	1e+13	NDD	0.5083	0.5059	-0.0024
109	1e+13	NDD	0.5012	0.4985	-0.0027
110	1e+13	NDD	0.4927	0.491	-0.0017
111	1e+13	NDD	0.5081	0.5048	-0.0033
732	0	CORRELATION	0.5002	0.5006	0.0004
742	0	CORRELATION	0.5031	0.5028	-0.0003
879	0	CORRELATION	0.5106	0.5111	0.0005
880	0	CORRELATION	0.502	0.5019	-0.0001

NDD vs Post - Pre Exposure Delta

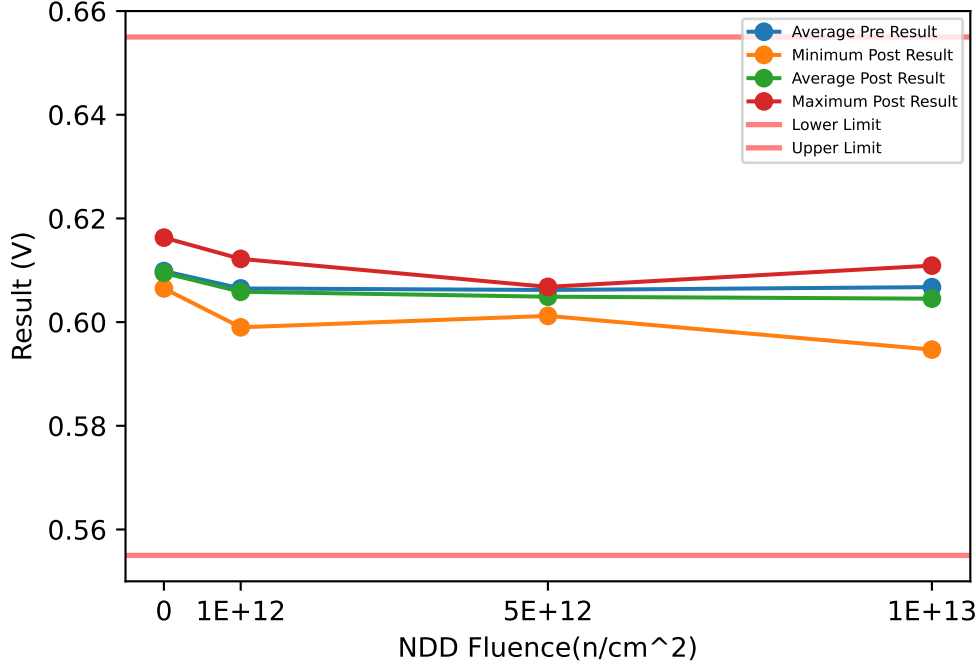


Test Statistics (V)

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	0.5002	0.50398	0.5106	0.0045756	0.5006	0.5041	0.5111	0.0047532	-0.0003	0.000125	0.0005	0.00038622
1e+12	0.4942	0.50107	0.5081	0.0060594	0.4941	0.50107	0.5079	0.0060357	-0.0002	0	0.0002	0.00018257
5e+12	0.4966	0.50118	0.5037	0.0031574	0.496	0.5003	0.5025	0.0029314	-0.0017	-0.000875	0	0.00073655
1e+13	0.4927	0.50257	0.5083	0.0073645	0.491	0.50005	0.5059	0.0068578	-0.0033	-0.002525	-0.0017	0.00066521

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

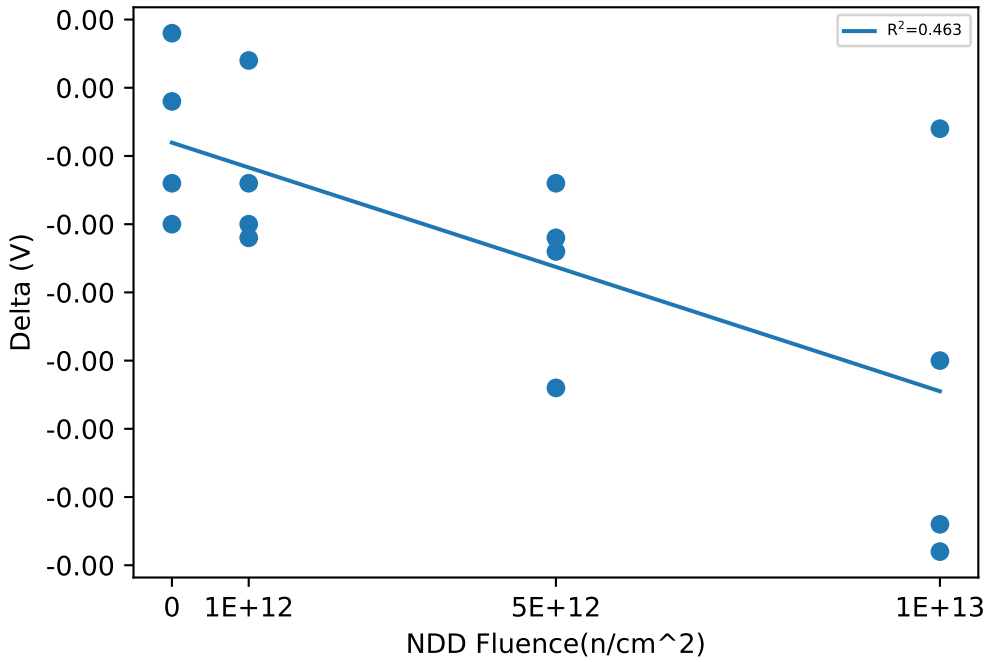
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6	0.599	-0.001
101	1e+12	NDD	0.6035	0.6028	-0.0007
102	1e+12	NDD	0.6092	0.6094	0.0002
103	1e+12	NDD	0.6133	0.6122	-0.0011
104	5e+12	NDD	0.608	0.6068	-0.0012
105	5e+12	NDD	0.6078	0.6056	-0.0022
106	5e+12	NDD	0.6023	0.6012	-0.0011
107	5e+12	NDD	0.6067	0.606	-0.0007
108	1e+13	NDD	0.6129	0.6109	-0.002
109	1e+13	NDD	0.6062	0.6028	-0.0034
110	1e+13	NDD	0.595	0.5947	-0.0003
111	1e+13	NDD	0.6129	0.6097	-0.0032
732	0	CORRELATION	0.6072	0.6065	-0.0007
742	0	CORRELATION	0.608	0.6084	0.0004
879	0	CORRELATION	0.6164	0.6163	-0.0001
880	0	CORRELATION	0.6078	0.6068	-0.001

NDD vs Post - Pre Exposure Delta

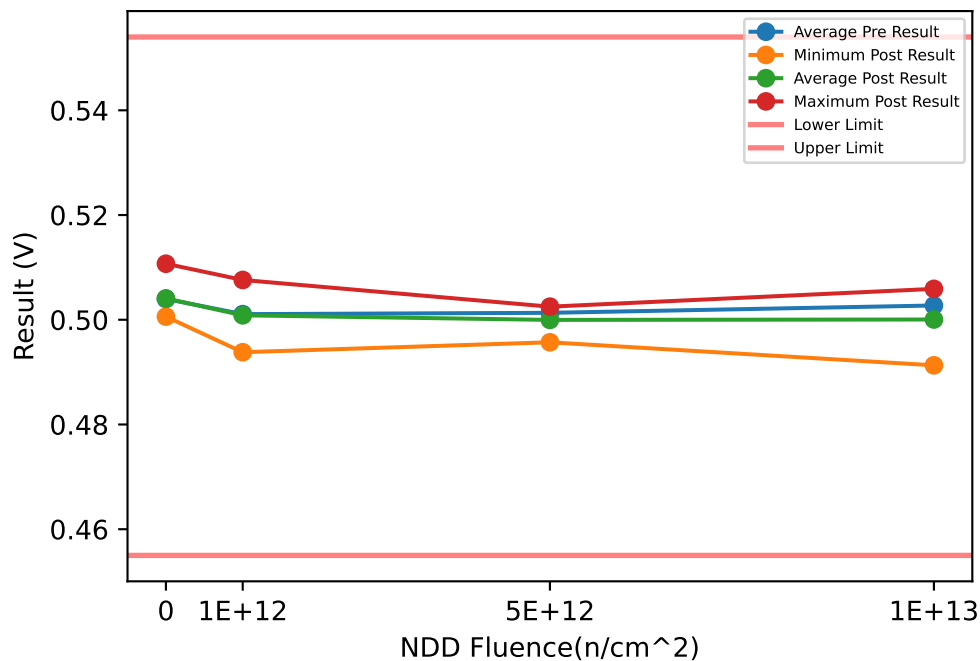


Test Statistics (V)

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	0.6072	0.60985	0.6164	0.0043799	0.6065	0.6095	0.6163	0.0046094	-0.001	-0.00035	0.0004	0.0006245
1e+12	0.6	0.6065	0.6133	0.0059099	0.599	0.60585	0.6122	0.0060319	-0.0011	-0.00065	0.0002	0.00059161
5e+12	0.6023	0.6062	0.608	0.0026621	0.6012	0.6049	0.6068	0.0025166	-0.0022	-0.0013	-0.0007	0.0006377
1e+13	0.595	0.60675	0.6129	0.0084461	0.5947	0.60452	0.6109	0.0074594	-0.0034	-0.002225	-0.0003	0.0014245

Device Test: 15.13 THRESHOLD|FALL/EN/14////@EN_VTH_FALLING

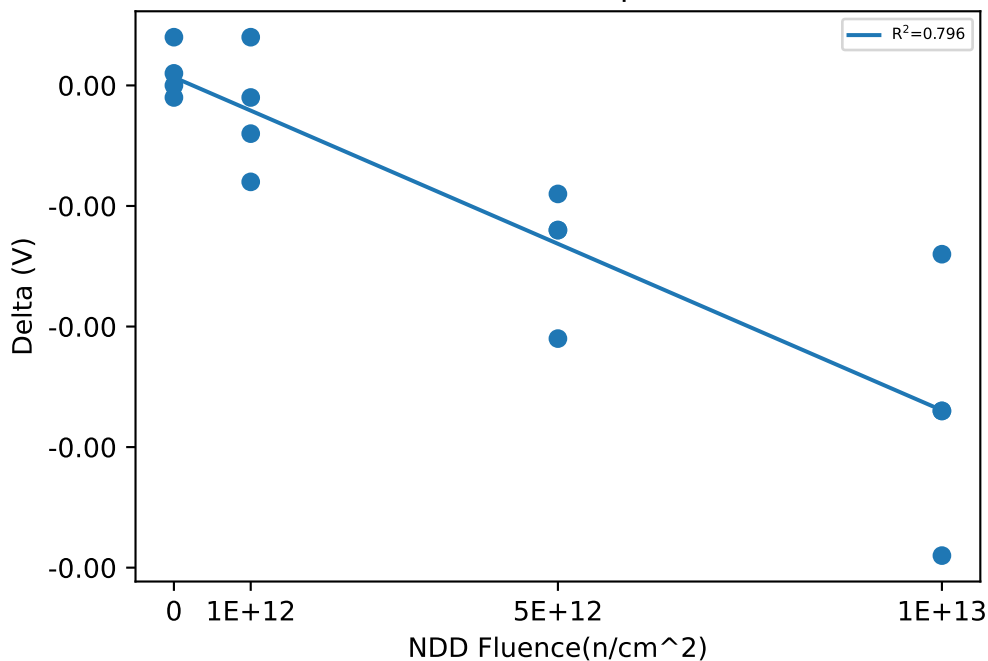
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4939	0.4938	-0.0001
101	1e+12	NDD	0.4981	0.4985	0.0004
102	1e+12	NDD	0.5039	0.5035	-0.0004
103	1e+12	NDD	0.5084	0.5076	-0.0008
104	5e+12	NDD	0.5037	0.5025	-0.0012
105	5e+12	NDD	0.5027	0.5006	-0.0021
106	5e+12	NDD	0.4969	0.4957	-0.0012
107	5e+12	NDD	0.502	0.5011	-0.0009
108	1e+13	NDD	0.5086	0.5059	-0.0027
109	1e+13	NDD	0.5015	0.4988	-0.0027
110	1e+13	NDD	0.4927	0.4913	-0.0014
111	1e+13	NDD	0.5081	0.5042	-0.0039
732	0	CORRELATION	0.5002	0.5006	0.0004
742	0	CORRELATION	0.5031	0.5031	0
879	0	CORRELATION	0.5106	0.5107	0.0001
880	0	CORRELATION	0.502	0.5019	-0.0001

NDD vs Post - Pre Exposure Delta

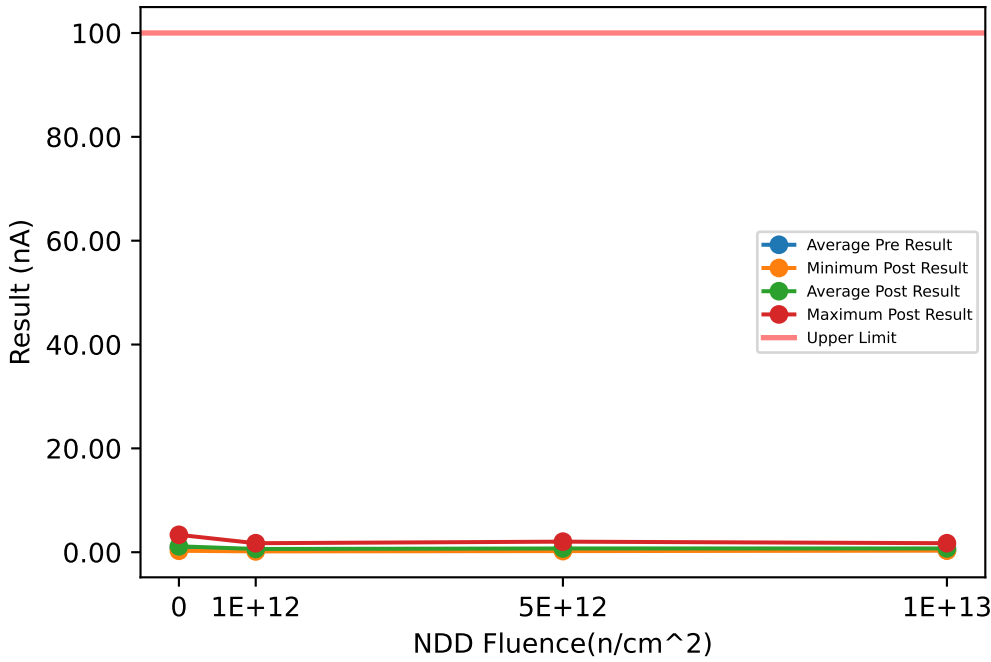


Test Statistics (V)

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	0.5002	0.50398	0.5106	0.0045756	0.5006	0.50408	0.5107	0.0045331	-0.0001	0.0001	0.0004	0.00021602
1e+12	0.4939	0.50107	0.5084	0.0063762	0.4938	0.50085	0.5076	0.0059947	-0.0008	-0.000225	0.0004	0.0005058
5e+12	0.4969	0.50133	0.5037	0.0030314	0.4957	0.49998	0.5025	0.0029613	-0.0021	-0.00135	-0.0009	0.00051962
1e+13	0.4927	0.50272	0.5086	0.0074254	0.4913	0.50005	0.5059	0.0065719	-0.0039	-0.002675	-0.0014	0.001021

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

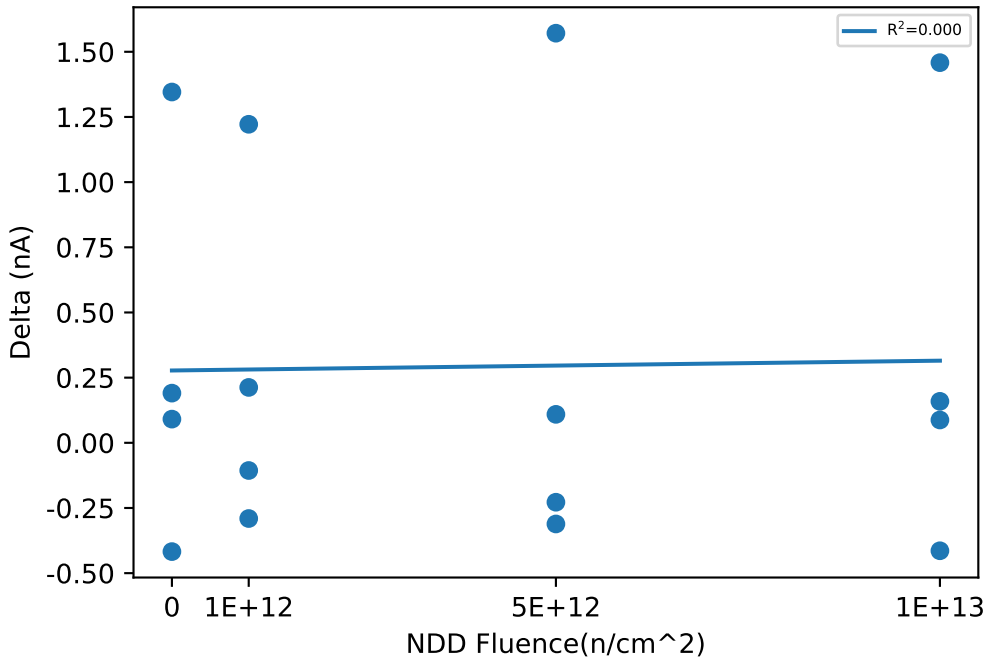
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.2152	0.4277	0.2125
101	1e+12	NDD	0.5143	1.7362	1.2219
102	1e+12	NDD	0.4746	0.1842	-0.2904
103	1e+12	NDD	0.2654	0.1592	-0.1062
104	5e+12	NDD	0.2623	0.3715	0.1092
105	5e+12	NDD	0.4647	2.036	1.5713
106	5e+12	NDD	0.586	0.2747	-0.3113
107	5e+12	NDD	0.4433	0.2154	-0.2279
108	1e+13	NDD	0.3622	0.5213	0.1591
109	1e+13	NDD	0.2779	1.7362	1.4583
110	1e+13	NDD	0.2152	0.3028	0.0876
111	1e+13	NDD	0.7668	0.3527	-0.4141
732	0	CORRELATION	0.1996	0.3902	0.1906
742	0	CORRELATION	2.0049	3.3506	1.3457
879	0	CORRELATION	0.6951	0.2778	-0.4173
880	0	CORRELATION	0.4429	0.5338	0.0909

NDD vs Post - Pre Exposure Delta

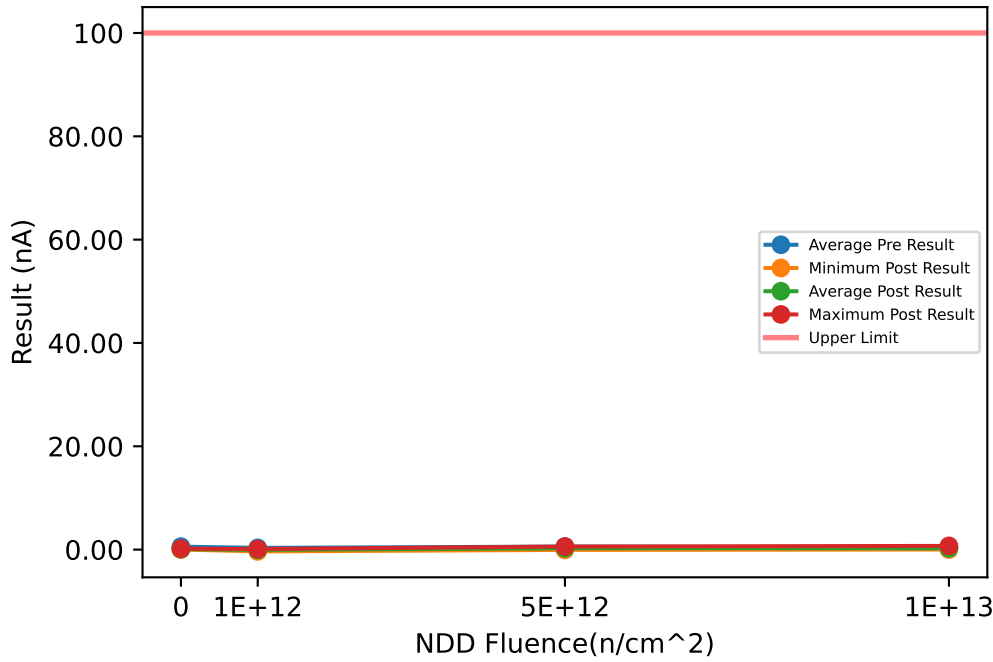


Test Statistics (nA)

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	0.1996	0.83563	2.0049	0.80534	0.2778	1.1381	3.3506	1.4787	-0.4173	0.30247	1.3457	0.74469
1e+12	0.2152	0.36738	0.5143	0.14904	0.1592	0.62682	1.7362	0.74943	-0.2904	0.25945	1.2219	0.67443
5e+12	0.2623	0.43907	0.586	0.13356	0.2154	0.7244	2.036	0.87676	-0.3113	0.28532	1.5713	0.87638
1e+13	0.2152	0.40553	0.7668	0.24827	0.3028	0.72825	1.7362	0.67844	-0.4141	0.32272	1.4583	0.79885

Device Test: 15.16 LEAK|POWERED/ILIM/14////@ILIM_LKG_CURR

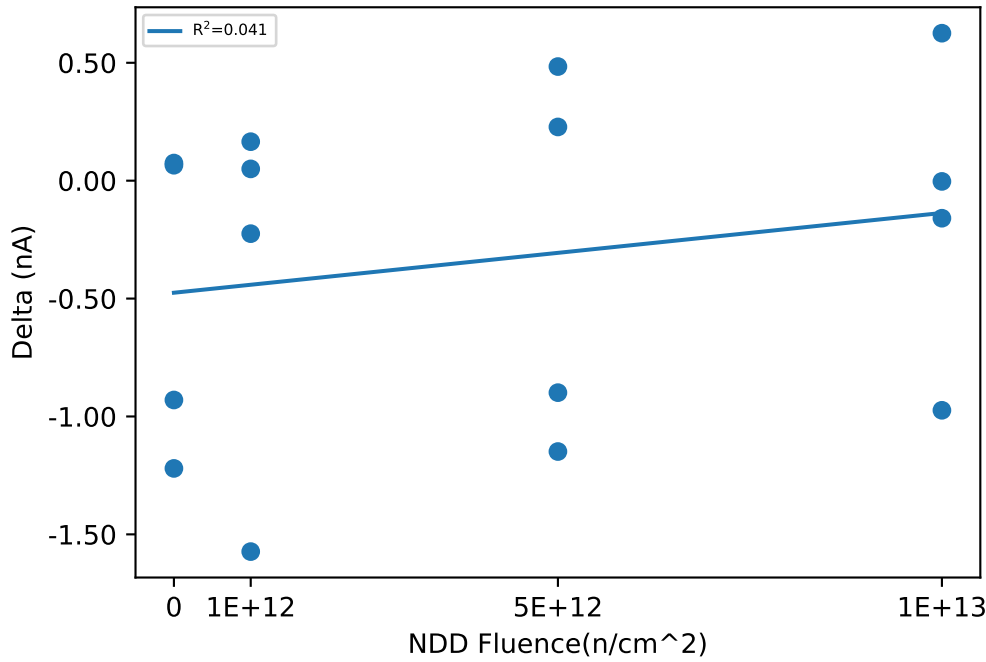
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	-0.0375	0.0125	0.05
101	1e+12	NDD	1.2266	-0.3465	-1.5731
102	1e+12	NDD	-0.0499	0.1155	0.1654
103	1e+12	NDD	0.2091	-0.0156	-0.2247
104	5e+12	NDD	0.98	0.081	-0.899
105	5e+12	NDD	0.3684	0.5963	0.2279
106	5e+12	NDD	1.0831	-0.0656	-1.1487
107	5e+12	NDD	-0.0656	0.4184	0.484
108	1e+13	NDD	0.0937	0.7192	0.6255
109	1e+13	NDD	1.0612	0.0874	-0.9738
110	1e+13	NDD	0.1655	0.1624	-0.0031
111	1e+13	NDD	0.1748	0.0156	-0.1592
732	0	CORRELATION	-0.0468	0.0187	0.0655
742	0	CORRELATION	1.1049	0.1748	-0.9301
879	0	CORRELATION	1.2703	0.05	-1.2203
880	0	CORRELATION	-0.0281	0.0467	0.0748

NDD vs Post - Pre Exposure Delta

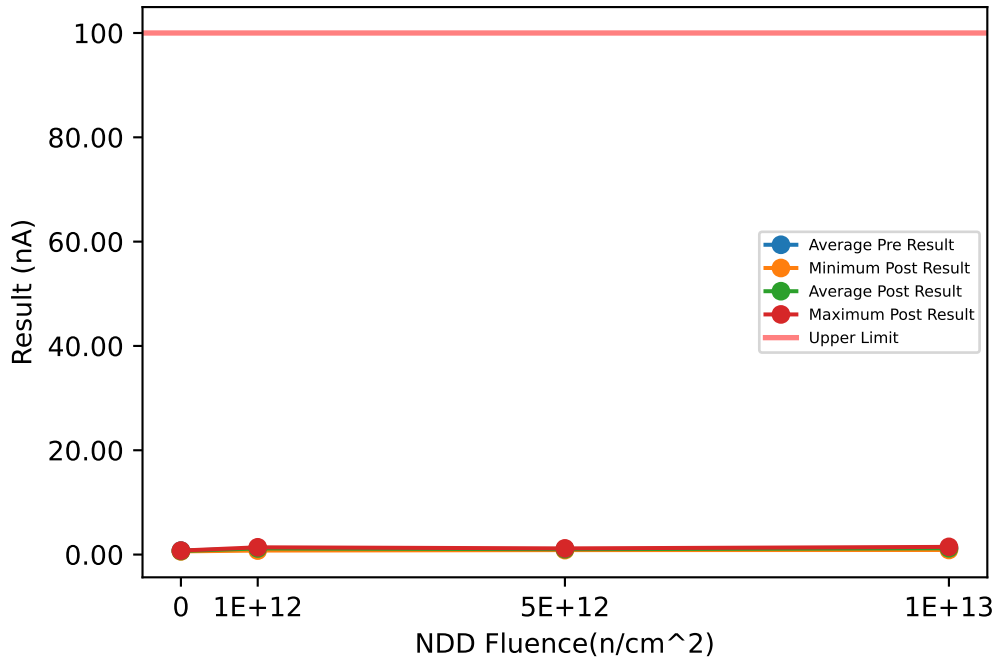


Test Statistics (nA)

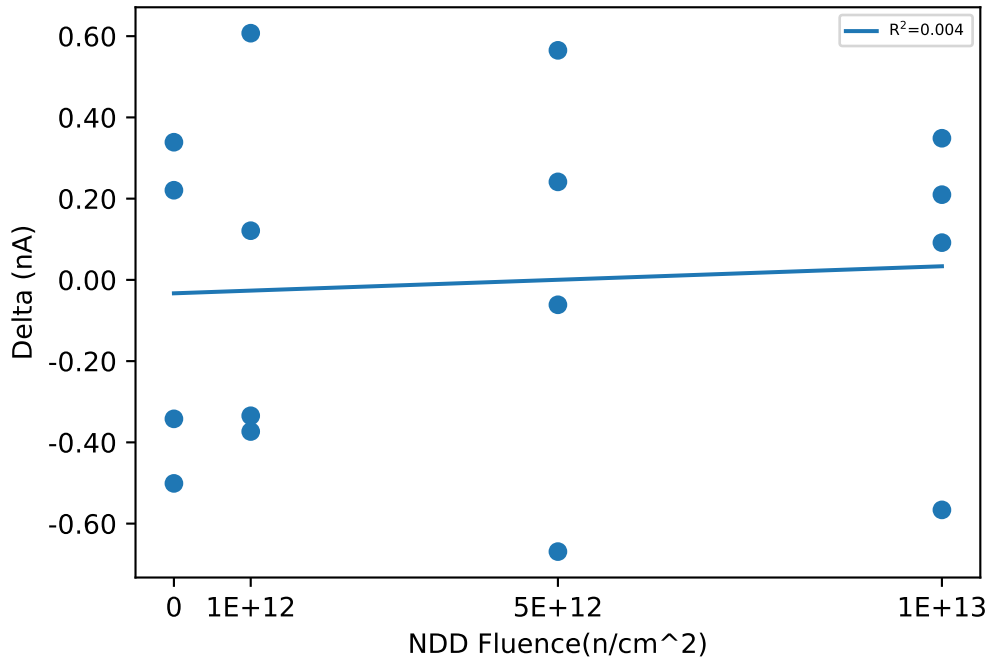
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0468	0.57508	1.2703	0.71054	0.0187	0.07255	0.1748	0.069598	-1.2203	-0.50252	0.0748	0.67181
1e+12	-0.0499	0.33707	1.2266	0.60489	-0.3465	-0.058525	0.1155	0.20008	-1.5731	-0.3956	0.1654	0.80187
5e+12	-0.0656	0.59147	1.0831	0.5398	-0.0656	0.25753	0.5963	0.30344	-1.1487	-0.33395	0.484	0.8099
1e+13	0.0937	0.3738	1.0612	0.4597	0.0156	0.24615	0.7192	0.32101	-0.9738	-0.12765	0.6255	0.65821

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 100.0 (nA))

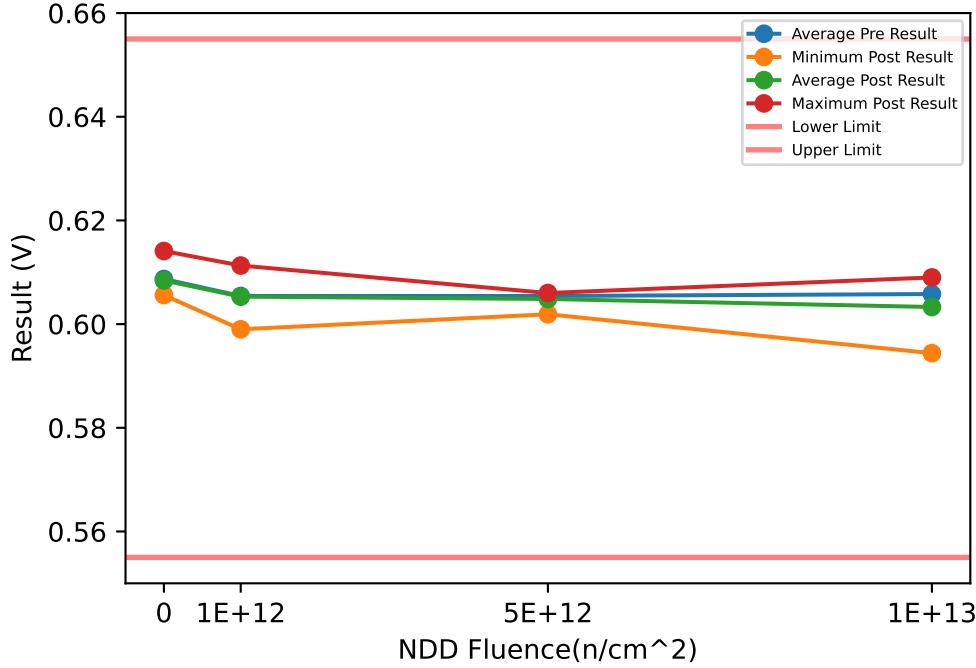
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.1385	0.7652	-0.3733
101	1e+12	NDD	0.5804	1.1877	0.6073
102	1e+12	NDD	1.221	1.3421	0.1211
103	1e+12	NDD	1.7284	1.3939	-0.3345
104	5e+12	NDD	0.611	0.8523	0.2413
105	5e+12	NDD	1.5475	0.8786	-0.6689
106	5e+12	NDD	0.6147	1.1798	0.5651
107	5e+12	NDD	1.246	1.1847	-0.0613
108	1e+13	NDD	1.3615	1.4532	0.0917
109	1e+13	NDD	0.5299	0.8786	0.3487
110	1e+13	NDD	1.2634	1.4732	0.2098
111	1e+13	NDD	1.5885	1.0223	-0.5662
732	0	CORRELATION	1.1229	0.6219	-0.501
742	0	CORRELATION	0.3863	0.607	0.2207
879	0	CORRELATION	0.4243	0.7632	0.3389
880	0	CORRELATION	1.0948	0.7527	-0.3421

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	0.3863	0.75707	1.1229	0.40665	0.607	0.6862	0.7632	0.083183	-0.501	-0.070875	0.3389	0.41292
1e+12	0.5804	1.1671	1.7284	0.47011	0.7652	1.1722	1.3939	0.28514	-0.3733	0.00515	0.6073	0.45993
5e+12	0.611	1.0048	1.5475	0.46903	0.8523	1.0238	1.1847	0.18323	-0.6689	0.01905	0.5651	0.52513
1e+13	0.5299	1.1858	1.5885	0.45799	0.8786	1.2068	1.4732	0.3019	-0.5662	0.021	0.3487	0.40531

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

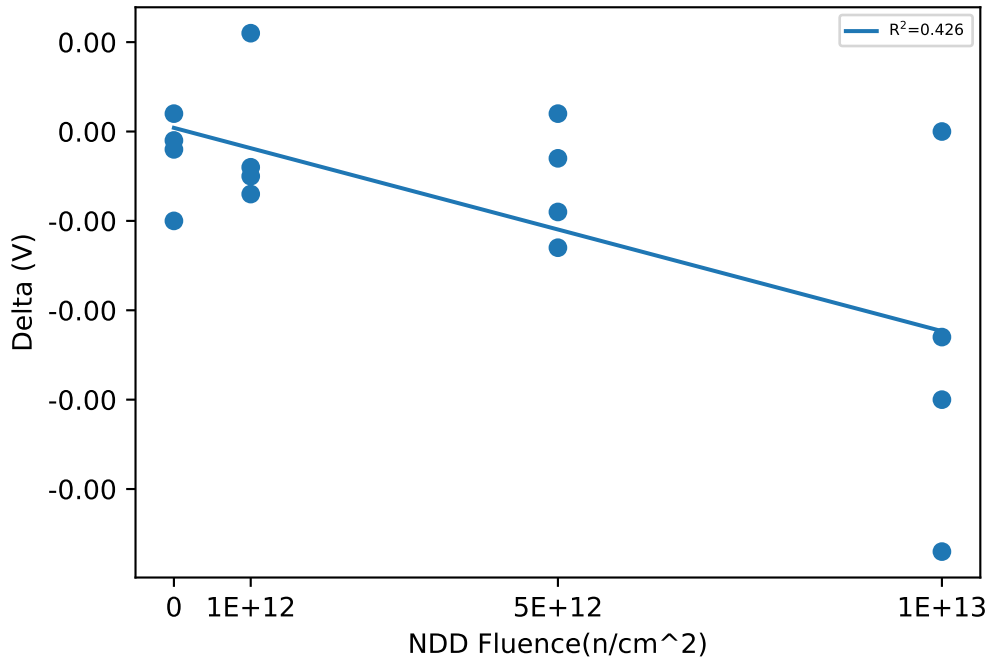
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.5994	0.599	-0.0004
101	1e+12	NDD	0.6029	0.6022	-0.0007
102	1e+12	NDD	0.6092	0.6087	-0.0005
103	1e+12	NDD	0.6102	0.6113	0.0011
104	5e+12	NDD	0.6068	0.6059	-0.0009
105	5e+12	NDD	0.6069	0.6056	-0.0013
106	5e+12	NDD	0.6017	0.6019	0.0002
107	5e+12	NDD	0.6063	0.606	-0.0003
108	1e+13	NDD	0.6113	0.609	-0.0023
109	1e+13	NDD	0.6046	0.6016	-0.003
110	1e+13	NDD	0.5944	0.5944	0
111	1e+13	NDD	0.6129	0.6082	-0.0047
732	0	CORRELATION	0.6066	0.6056	-0.001
742	0	CORRELATION	0.6074	0.6072	-0.0002
879	0	CORRELATION	0.6139	0.6141	0.0002
880	0	CORRELATION	0.6069	0.6068	-0.0001

NDD vs Post - Pre Exposure Delta

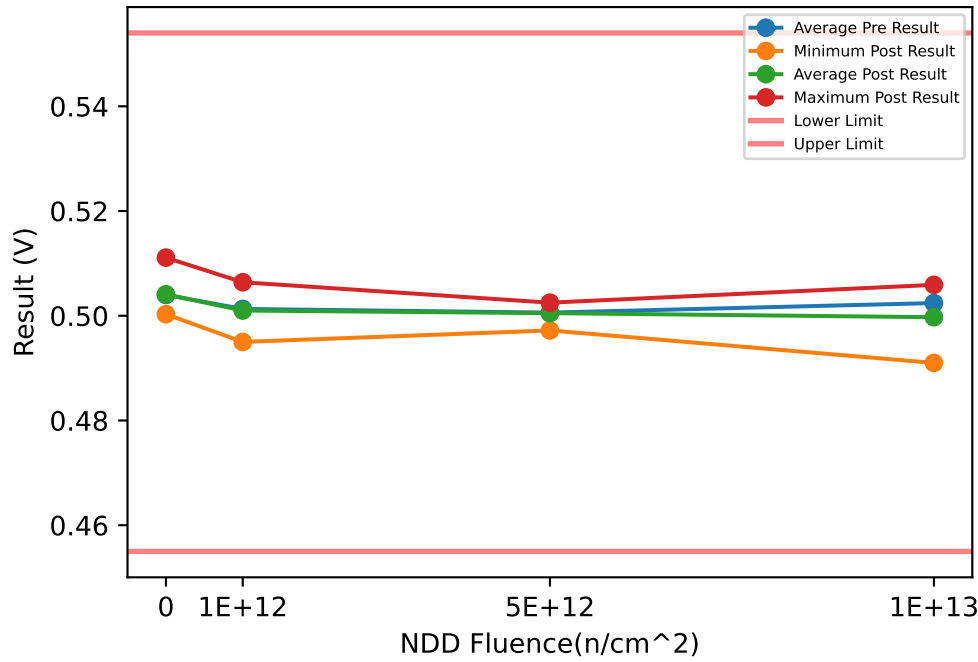


Test Statistics (V)

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	0.6066	0.6087	0.6139	0.0034823	0.6056	0.60842	0.6141	0.0038439	-0.001	-0.000275	0.0002	0.00051235
1e+12	0.5994	0.60542	0.6102	0.0051552	0.599	0.6053	0.6113	0.0056821	-0.0007	-0.000125	0.0011	0.00082614
5e+12	0.6017	0.60542	0.6069	0.0024972	0.6019	0.60485	0.606	0.001974	-0.0013	-0.000575	0.0002	0.00066018
1e+13	0.5944	0.6058	0.6129	0.0084075	0.5944	0.6033	0.609	0.0067971	-0.0047	-0.0025	0	0.0019476

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

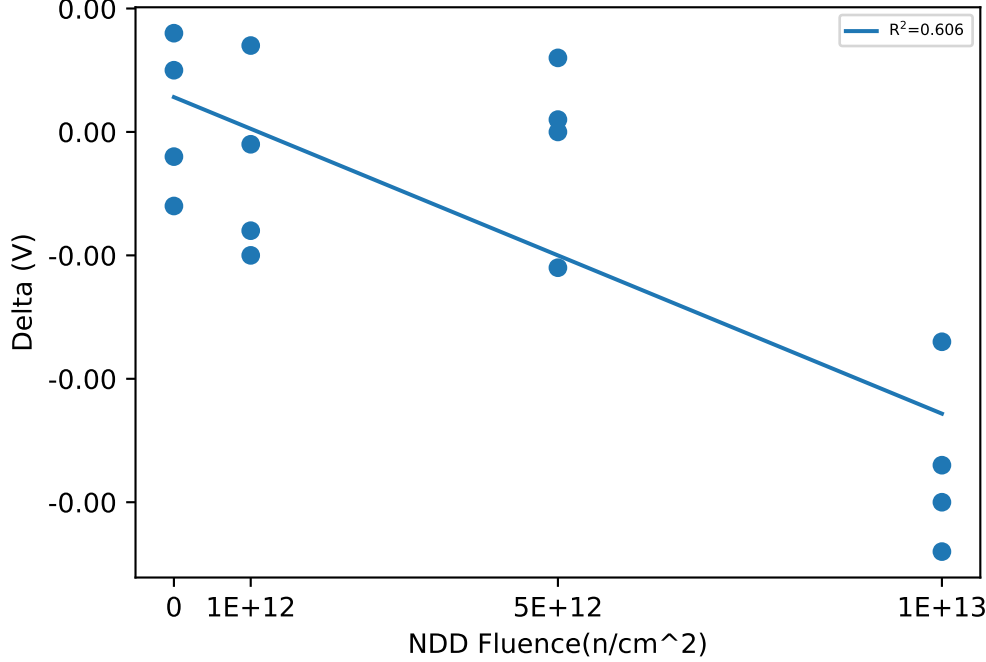
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4958	0.495	-0.0008
101	1e+12	NDD	0.4981	0.4988	0.0007
102	1e+12	NDD	0.5039	0.5038	-0.0001
103	1e+12	NDD	0.5074	0.5064	-0.001
104	5e+12	NDD	0.5024	0.5025	0.0001
105	5e+12	NDD	0.5017	0.5006	-0.0011
106	5e+12	NDD	0.4966	0.4972	0.0006
107	5e+12	NDD	0.5017	0.5017	0
108	1e+13	NDD	0.5086	0.5059	-0.0027
109	1e+13	NDD	0.5012	0.4978	-0.0034
110	1e+13	NDD	0.4927	0.491	-0.0017
111	1e+13	NDD	0.5072	0.5042	-0.003
732	0	CORRELATION	0.5005	0.5003	-0.0002
742	0	CORRELATION	0.5034	0.5028	-0.0006
879	0	CORRELATION	0.5106	0.5111	0.0005
880	0	CORRELATION	0.5014	0.5022	0.0008

NDD vs Post - Pre Exposure Delta

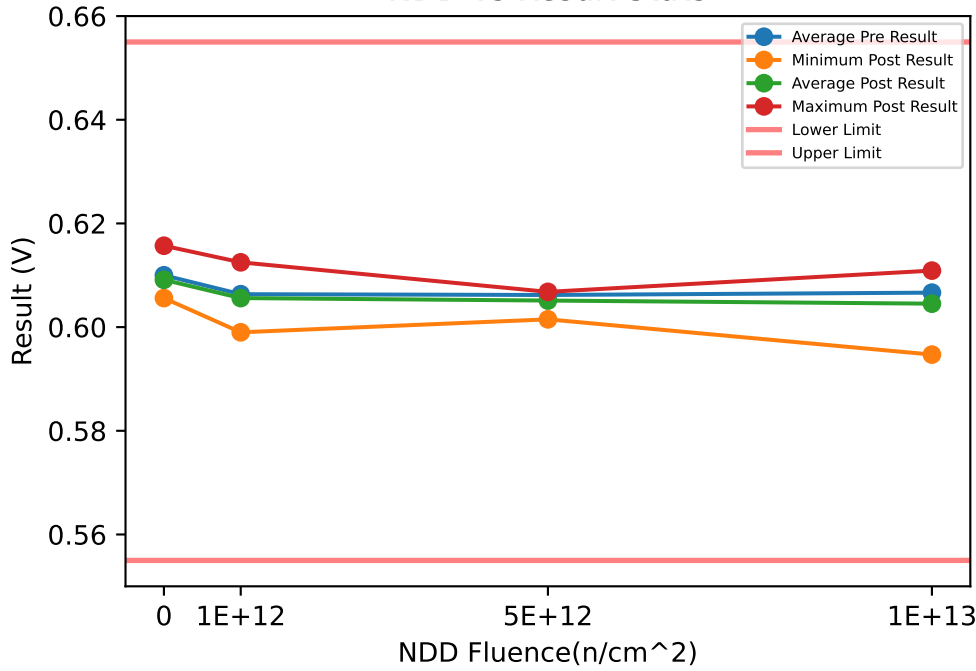


Test Statistics (V)

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	0.5005	0.50397	0.5106	0.0045799	0.5003	0.5041	0.5111	0.0047868	-0.0006	0.000125	0.0008	0.00063966
1e+12	0.4958	0.5013	0.5074	0.005306	0.495	0.501	0.5064	0.0050938	-0.001	-0.0003	0.0007	0.00077028
5e+12	0.4966	0.5006	0.5024	0.002687	0.4972	0.5005	0.5025	0.0023338	-0.0011	-0.0001	0.0006	0.00071647
1e+13	0.4927	0.50243	0.5086	0.0072344	0.491	0.49972	0.5059	0.006782	-0.0034	-0.0027	-0.0017	0.00072572

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

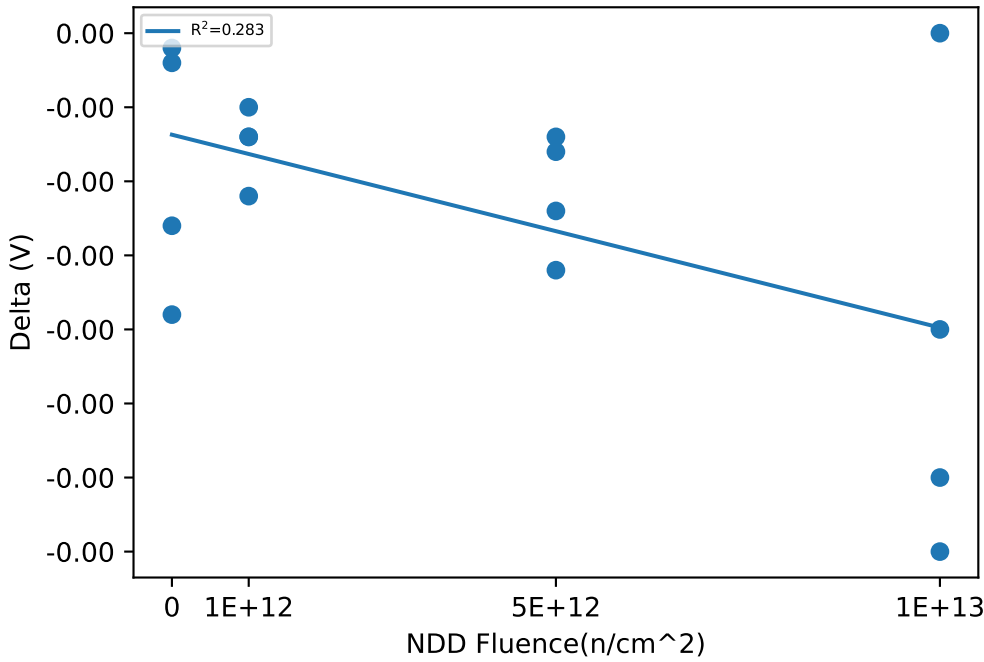
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.5997	0.599	-0.0007
101	1e+12	NDD	0.6032	0.6025	-0.0007
102	1e+12	NDD	0.6095	0.6084	-0.0011
103	1e+12	NDD	0.613	0.6125	-0.0005
104	5e+12	NDD	0.608	0.6068	-0.0012
105	5e+12	NDD	0.6075	0.6059	-0.0016
106	5e+12	NDD	0.6023	0.6015	-0.0008
107	5e+12	NDD	0.607	0.6063	-0.0007
108	1e+13	NDD	0.6129	0.6109	-0.002
109	1e+13	NDD	0.6058	0.6028	-0.003
110	1e+13	NDD	0.5947	0.5947	0
111	1e+13	NDD	0.6132	0.6097	-0.0035
732	0	CORRELATION	0.6075	0.6056	-0.0019
742	0	CORRELATION	0.6083	0.6081	-0.0002
879	0	CORRELATION	0.617	0.6157	-0.0013
880	0	CORRELATION	0.6072	0.6071	-0.0001

NDD vs Post - Pre Exposure Delta

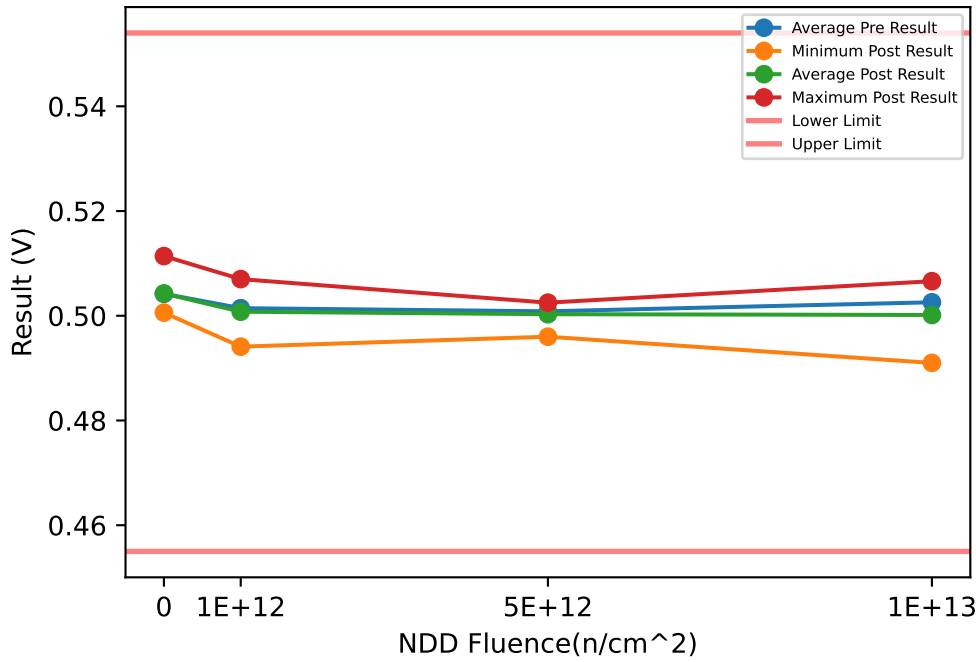


Test Statistics (V)

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	0.6072	0.61	0.617	0.0046897	0.6056	0.60913	0.6157	0.0045021	-0.0019	-0.000875	-0.0001	0.00087321
1e+12	0.5997	0.60635	0.613	0.0060081	0.599	0.6056	0.6125	0.0060172	-0.0011	-0.00075	-0.0005	0.00025166
5e+12	0.6023	0.6062	0.608	0.0026319	0.6015	0.60513	0.6068	0.0024446	-0.0016	-0.001075	-0.0007	0.0004113
1e+13	0.5947	0.60665	0.6132	0.0086697	0.5947	0.60452	0.6109	0.0074594	-0.0035	-0.002125	0	0.0015478

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

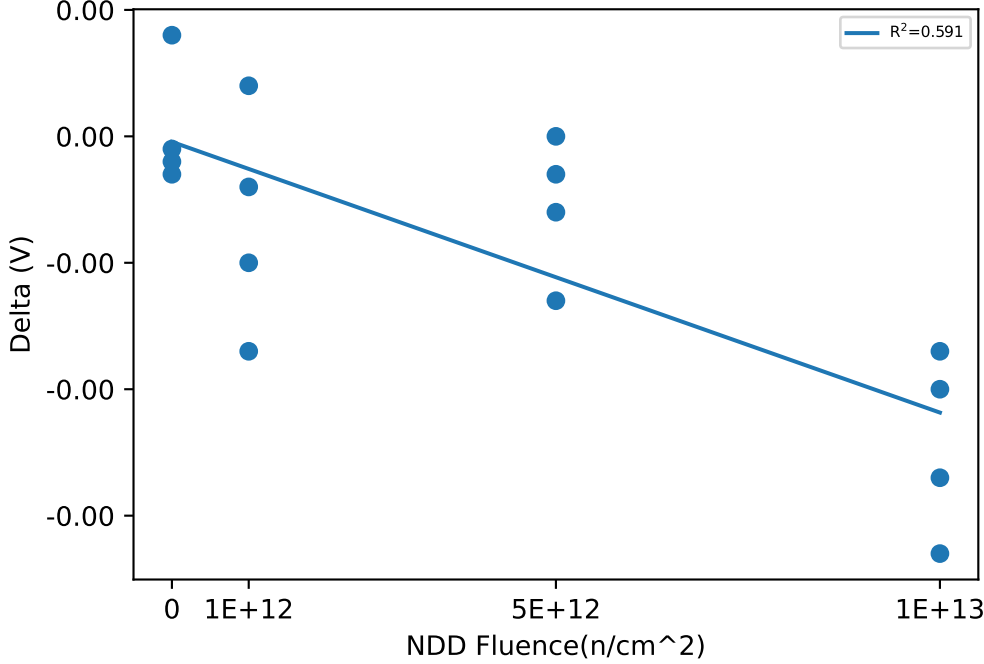
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4945	0.4941	-0.0004
101	1e+12	NDD	0.4981	0.4985	0.0004
102	1e+12	NDD	0.5045	0.5035	-0.001
103	1e+12	NDD	0.5087	0.507	-0.0017
104	5e+12	NDD	0.5031	0.5025	-0.0006
105	5e+12	NDD	0.5023	0.501	-0.0013
106	5e+12	NDD	0.4963	0.496	-0.0003
107	5e+12	NDD	0.5017	0.5017	0
108	1e+13	NDD	0.5086	0.5066	-0.002
109	1e+13	NDD	0.5012	0.4985	-0.0027
110	1e+13	NDD	0.4927	0.491	-0.0017
111	1e+13	NDD	0.5078	0.5045	-0.0033
732	0	CORRELATION	0.5008	0.5006	-0.0002
742	0	CORRELATION	0.5031	0.5028	-0.0003
879	0	CORRELATION	0.5106	0.5114	0.0008
880	0	CORRELATION	0.5023	0.5022	-0.0001

NDD vs Post - Pre Exposure Delta

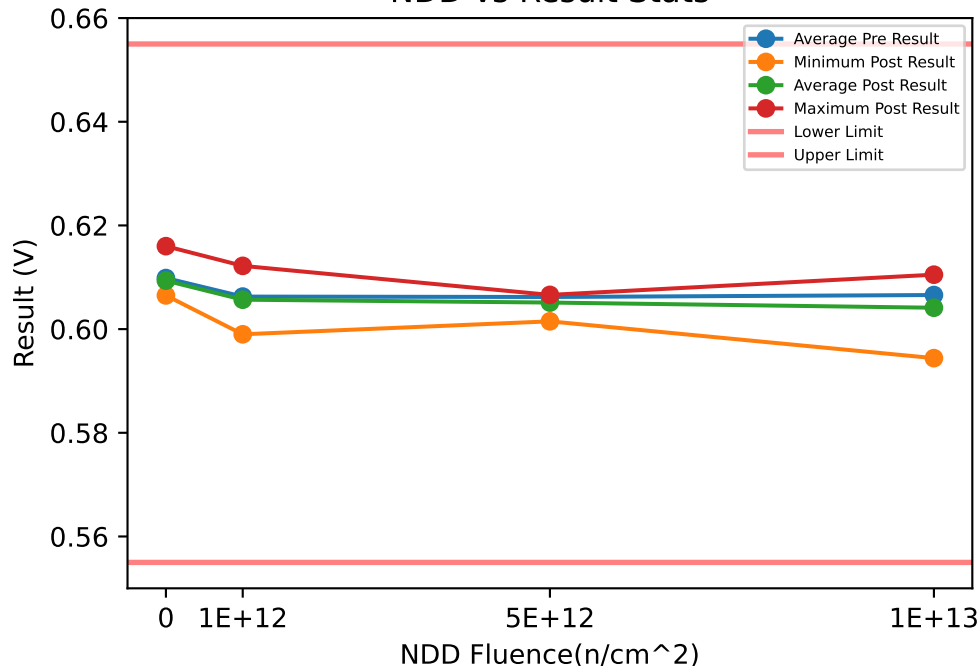


Test Statistics (V)

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	0.5008	0.5042	0.5106	0.0043719	0.5006	0.50425	0.5114	0.0048563	-0.0003	5e-05	0.0008	0.00050662
1e+12	0.4945	0.50145	0.5087	0.0063611	0.4941	0.50077	0.507	0.0056541	-0.0017	-0.000675	0.0004	0.00089209
5e+12	0.4963	0.50085	0.5031	0.0030871	0.496	0.5003	0.5025	0.0029314	-0.0013	-0.00055	0	0.00055678
1e+13	0.4927	0.50257	0.5086	0.0073713	0.491	0.50015	0.5066	0.0069993	-0.0033	-0.002425	-0.0017	0.00071822

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

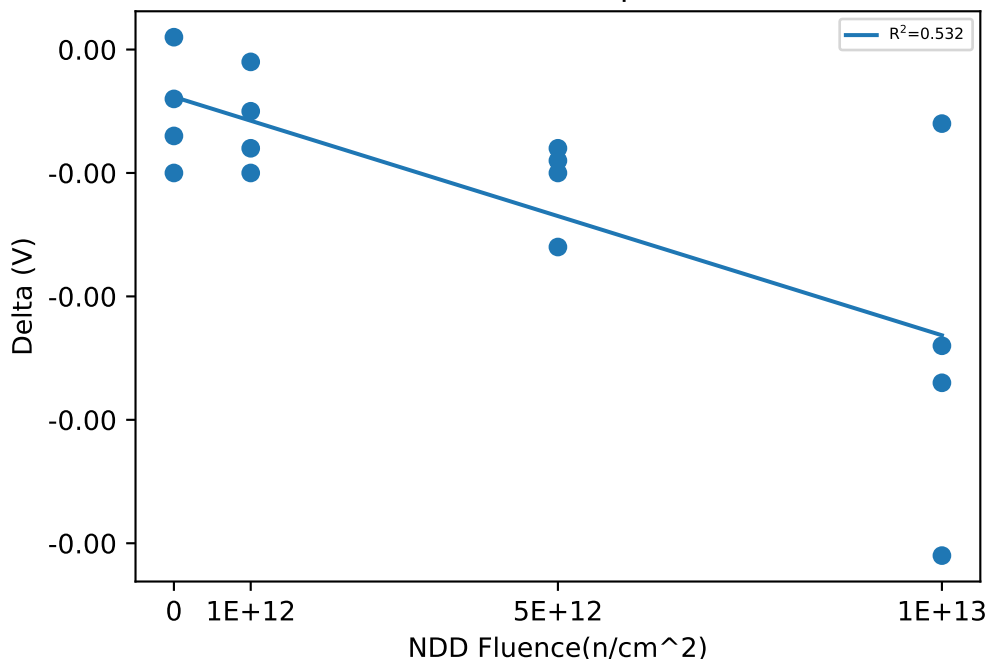
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6	0.599	-0.001
101	1e+12	NDD	0.6032	0.6031	-0.0001
102	1e+12	NDD	0.6092	0.6084	-0.0008
103	1e+12	NDD	0.6127	0.6122	-0.0005
104	5e+12	NDD	0.6074	0.6065	-0.0009
105	5e+12	NDD	0.6075	0.6059	-0.0016
106	5e+12	NDD	0.6023	0.6015	-0.0008
107	5e+12	NDD	0.6076	0.6066	-0.001
108	1e+13	NDD	0.6129	0.6105	-0.0024
109	1e+13	NDD	0.6055	0.6028	-0.0027
110	1e+13	NDD	0.595	0.5944	-0.0006
111	1e+13	NDD	0.6129	0.6088	-0.0041
732	0	CORRELATION	0.6069	0.6065	-0.0004
742	0	CORRELATION	0.608	0.6081	0.0001
879	0	CORRELATION	0.6167	0.616	-0.0007
880	0	CORRELATION	0.6078	0.6068	-0.001

NDD vs Post - Pre Exposure Delta

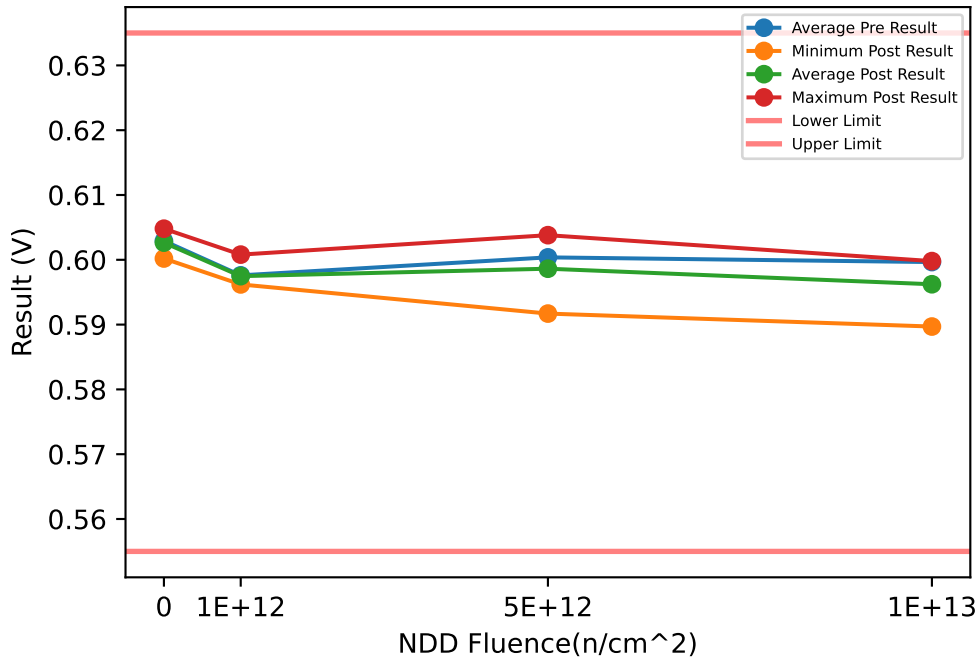


Test Statistics (V)

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	0.6069	0.60985	0.6167	0.0045917	0.6065	0.60935	0.616	0.0044874	-0.001	-0.0005	0.0001	0.00046904
1e+12	0.6	0.60628	0.6127	0.0057349	0.599	0.60567	0.6122	0.0058077	-0.001	-0.0006	-0.0001	0.00039158
5e+12	0.6023	0.6062	0.6076	0.0026013	0.6015	0.60513	0.6066	0.0024364	-0.0016	-0.001075	-0.0008	0.0003594
1e+13	0.595	0.60657	0.6129	0.0084685	0.5944	0.60413	0.6105	0.0072762	-0.0041	-0.00245	-0.0006	0.0014387

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

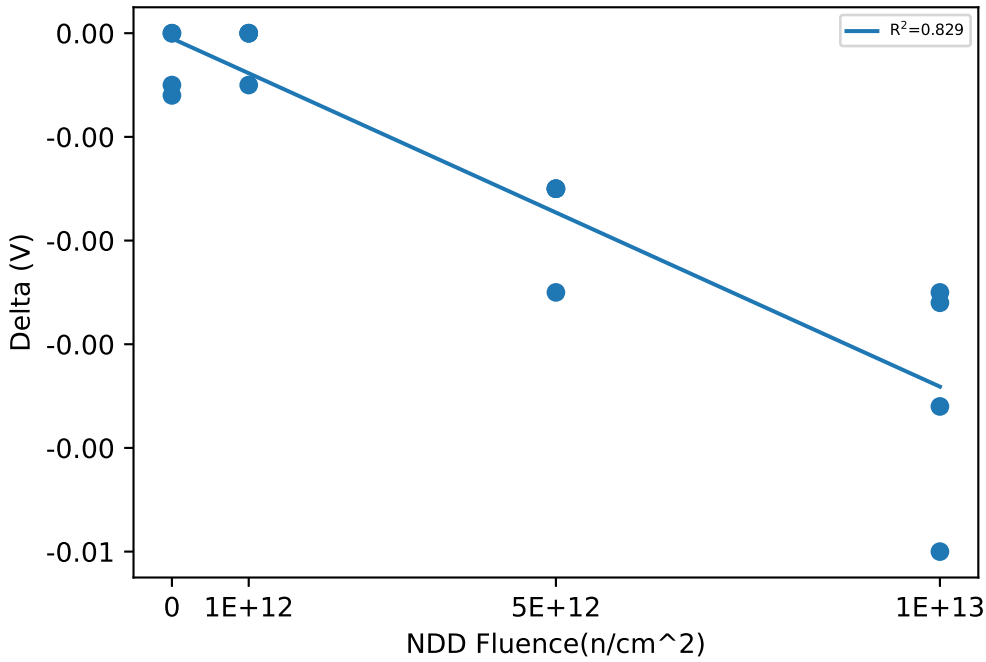
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.5962	0.5962	0
101	1e+12	NDD	0.5962	0.5962	0
102	1e+12	NDD	0.5972	0.5967	-0.0005
103	1e+12	NDD	0.6008	0.6008	0
104	5e+12	NDD	0.6053	0.6038	-0.0015
105	5e+12	NDD	0.6053	0.6038	-0.0015
106	5e+12	NDD	0.5977	0.5952	-0.0025
107	5e+12	NDD	0.5932	0.5917	-0.0015
108	1e+13	NDD	0.6008	0.5982	-0.0026
109	1e+13	NDD	0.6048	0.5998	-0.005
110	1e+13	NDD	0.5922	0.5897	-0.0025
111	1e+13	NDD	0.6008	0.5972	-0.0036
732	0	CORRELATION	0.6048	0.6048	0
742	0	CORRELATION	0.6008	0.6002	-0.0006
879	0	CORRELATION	0.6033	0.6028	-0.0005
880	0	CORRELATION	0.6028	0.6028	0

NDD vs Post - Pre Exposure Delta

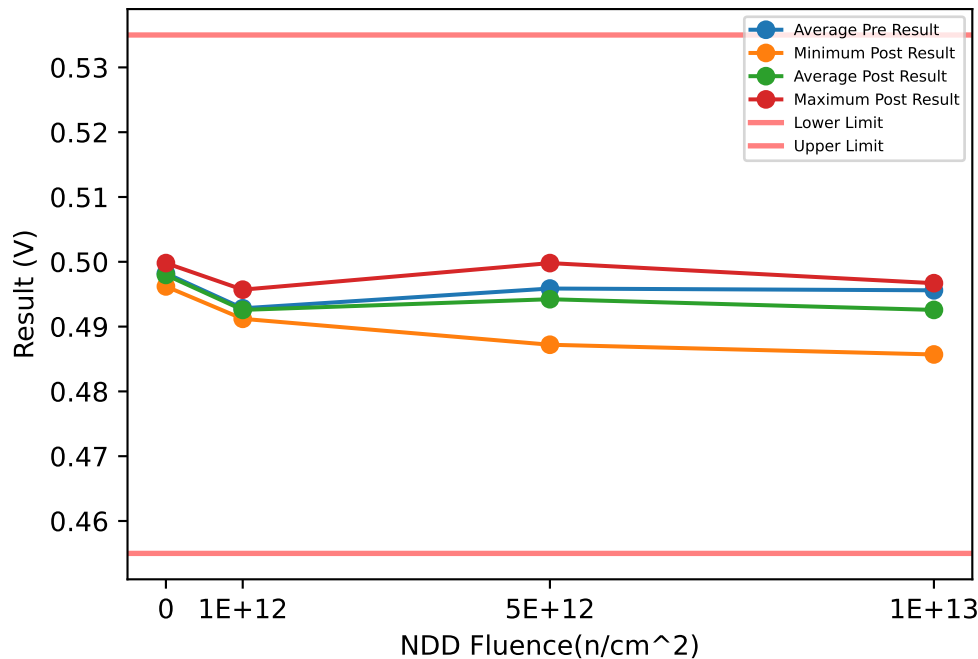


Test Statistics (V)

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	0.6008	0.60292	0.6048	0.001652	0.6002	0.60265	0.6048	0.0018859	-0.0006	-0.000275	0	0.00032016
1e+12	0.5962	0.5976	0.6008	0.0021848	0.5962	0.59747	0.6008	0.0022292	-0.0005	-0.000125	0	0.00025
5e+12	0.5932	0.60037	0.6053	0.0059763	0.5917	0.59862	0.6038	0.006144	-0.0025	-0.00175	-0.0015	0.0005
1e+13	0.5922	0.59965	0.6048	0.0053126	0.5897	0.59623	0.5998	0.0044799	-0.005	-0.003425	-0.0025	0.0011615

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

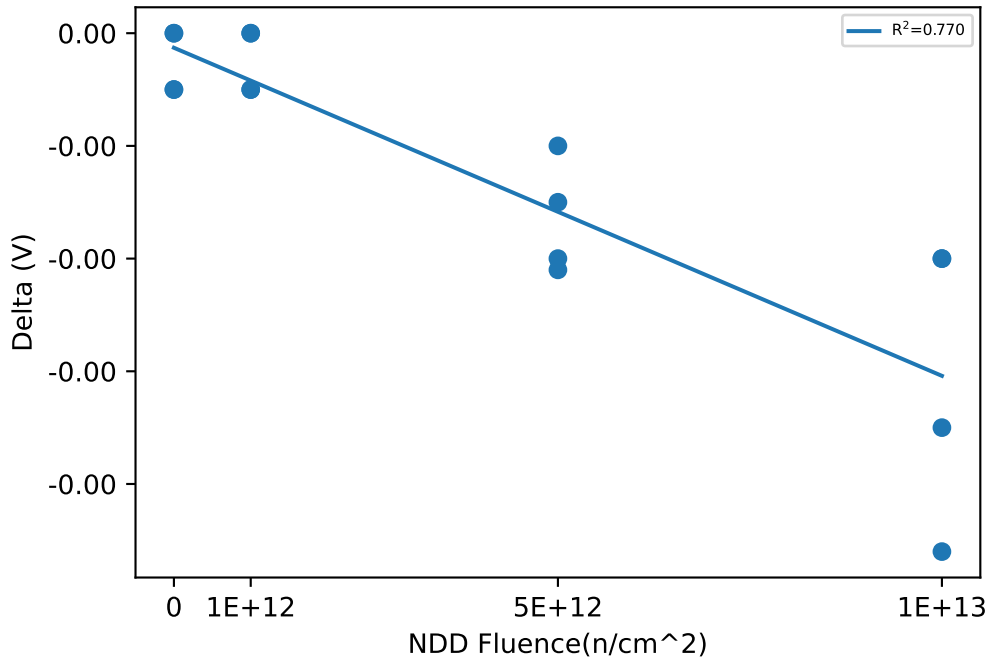
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4917	0.4912	-0.0005
101	1e+12	NDD	0.4922	0.4922	0
102	1e+12	NDD	0.4912	0.4912	0
103	1e+12	NDD	0.4962	0.4957	-0.0005
104	5e+12	NDD	0.5013	0.4992	-0.0021
105	5e+12	NDD	0.5008	0.4998	-0.001
106	5e+12	NDD	0.4927	0.4907	-0.002
107	5e+12	NDD	0.4887	0.4872	-0.0015
108	1e+13	NDD	0.4972	0.4952	-0.002
109	1e+13	NDD	0.5013	0.4967	-0.0046
110	1e+13	NDD	0.4877	0.4857	-0.002
111	1e+13	NDD	0.4962	0.4927	-0.0035
732	0	CORRELATION	0.4998	0.4998	0
742	0	CORRELATION	0.4967	0.4962	-0.0005
879	0	CORRELATION	0.4982	0.4977	-0.0005
880	0	CORRELATION	0.4982	0.4982	0

NDD vs Post - Pre Exposure Delta

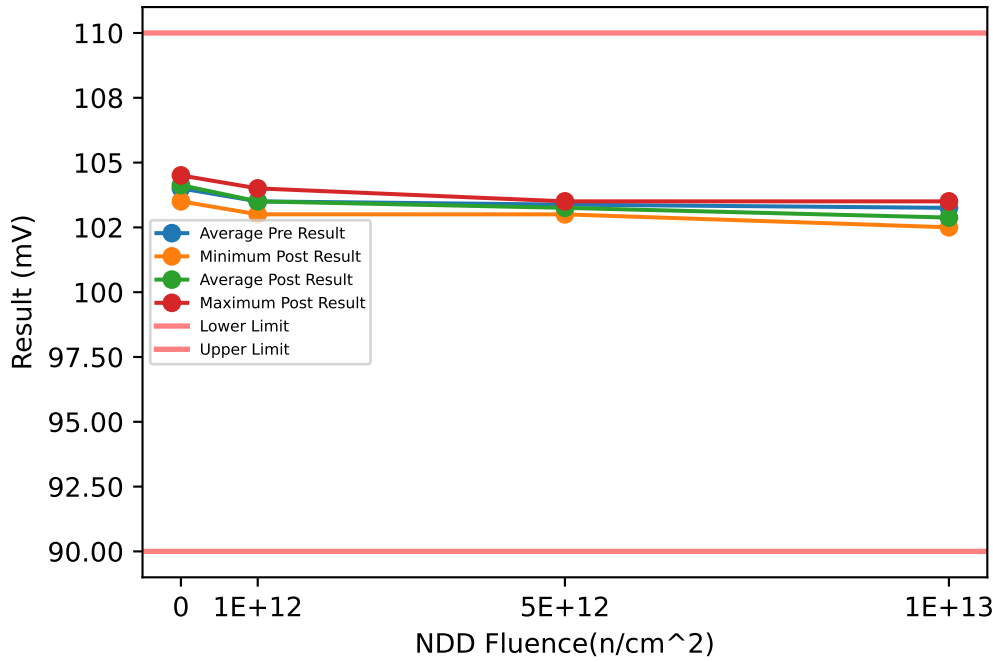


Test Statistics (V)

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	0.4967	0.49822	0.4998	0.0012659	0.4962	0.49798	0.4998	0.0014841	-0.0005	-0.00025	0	0.00028868
1e+12	0.4912	0.49283	0.4962	0.0022867	0.4912	0.49257	0.4957	0.002136	-0.0005	-0.00025	0	0.00028868
5e+12	0.4887	0.49588	0.5013	0.0061981	0.4872	0.49423	0.4998	0.0062612	-0.0021	-0.00165	-0.001	0.00050662
1e+13	0.4877	0.4956	0.5013	0.0057102	0.4857	0.49257	0.4967	0.0048713	-0.0046	-0.003025	-0.002	0.0012659

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

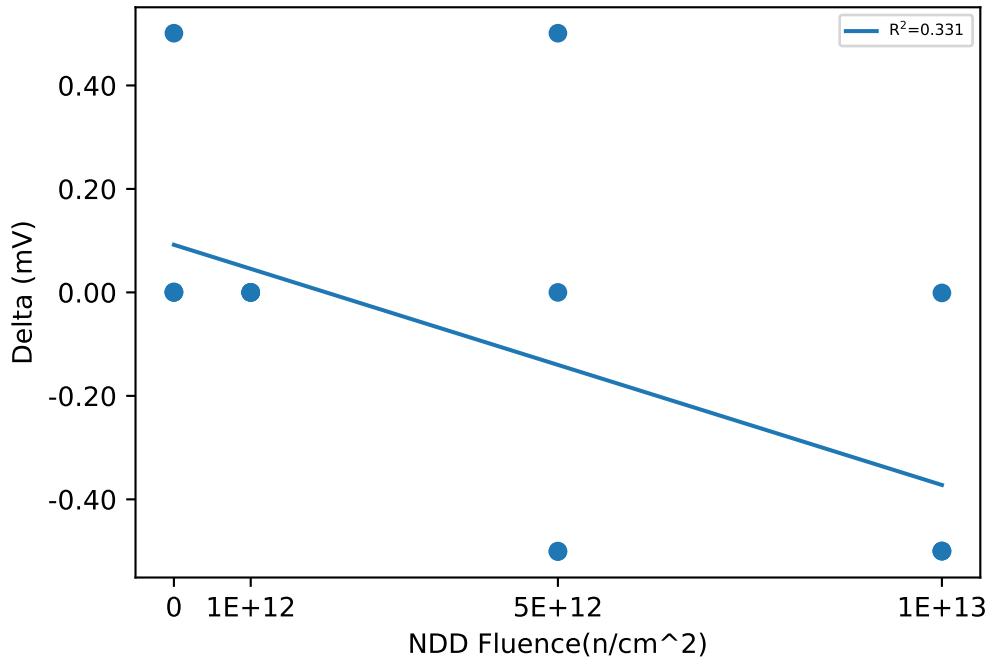
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	103.5	103.5	0
101	1e+12	NDD	103	103	0
102	1e+12	NDD	103.5	103.5	0
103	1e+12	NDD	104	104	0
104	5e+12	NDD	103	103.5	0.501
105	5e+12	NDD	103.5	103	-0.501
106	5e+12	NDD	104	103.5	-0.5
107	5e+12	NDD	103	103	0
108	1e+13	NDD	103	102.5	-0.5
109	1e+13	NDD	103	102.5	-0.5
110	1e+13	NDD	103.5	103	-0.5
111	1e+13	NDD	103.5	103.5	-0.001
732	0	CORRELATION	104	104	0
742	0	CORRELATION	103.5	103.5	0.001
879	0	CORRELATION	104	104.51	0.501
880	0	CORRELATION	104.5	104.5	0

NDD vs Post - Pre Exposure Delta

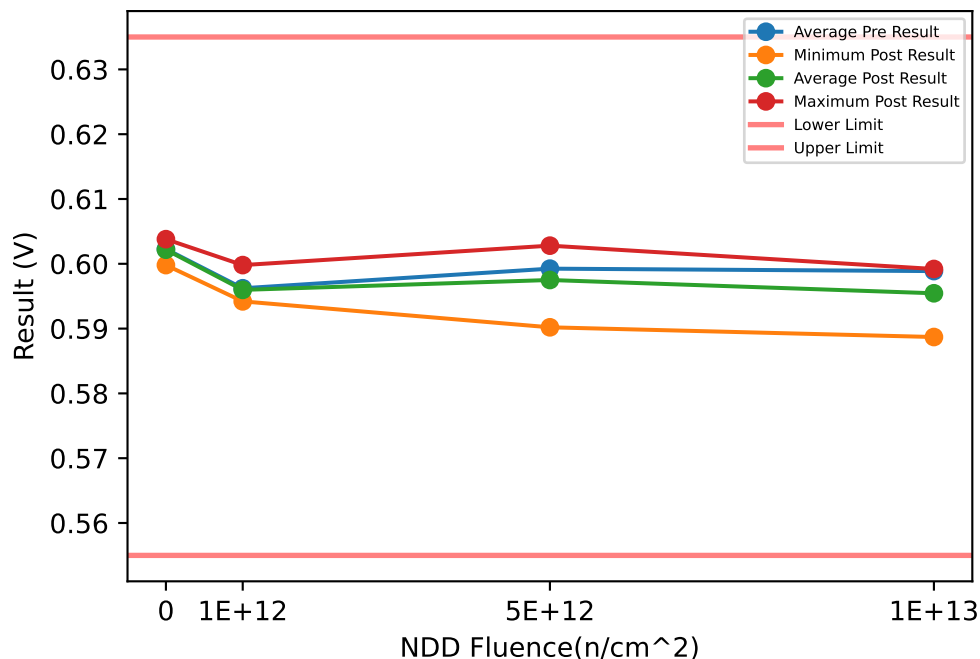


Test Statistics (mV)

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	103.5	104	104.5	0.40866	103.5	104.13	104.51	0.47897	0	0.1255	0.501	0.25033
1e+12	103	103.5	104	0.40866	103	103.5	104	0.40866	0	0	0	0
5e+12	103	103.38	104	0.47941	103	103.25	103.5	0.28925	-0.501	-0.125	0.501	0.47941
1e+13	103	103.25	103.5	0.28954	102.5	102.88	103.5	0.47924	-0.5	-0.37525	-0.001	0.2495

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

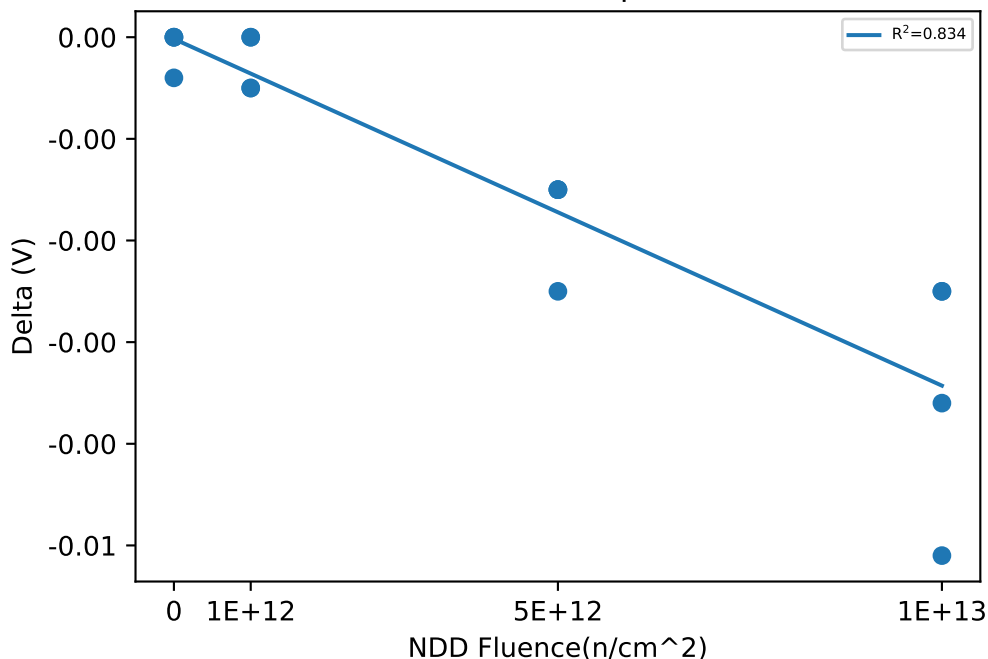
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.5952	0.5947	-0.0005
101	1e+12	NDD	0.5952	0.5952	0
102	1e+12	NDD	0.5947	0.5942	-0.0005
103	1e+12	NDD	0.5998	0.5998	0
104	5e+12	NDD	0.6043	0.6028	-0.0015
105	5e+12	NDD	0.6043	0.6028	-0.0015
106	5e+12	NDD	0.5967	0.5942	-0.0025
107	5e+12	NDD	0.5917	0.5902	-0.0015
108	1e+13	NDD	0.6002	0.5977	-0.0025
109	1e+13	NDD	0.6043	0.5992	-0.0051
110	1e+13	NDD	0.5912	0.5887	-0.0025
111	1e+13	NDD	0.5998	0.5962	-0.0036
732	0	CORRELATION	0.6038	0.6038	0
742	0	CORRELATION	0.6002	0.5998	-0.0004
879	0	CORRELATION	0.6023	0.6023	0
880	0	CORRELATION	0.6028	0.6028	0

NDD vs Post - Pre Exposure Delta

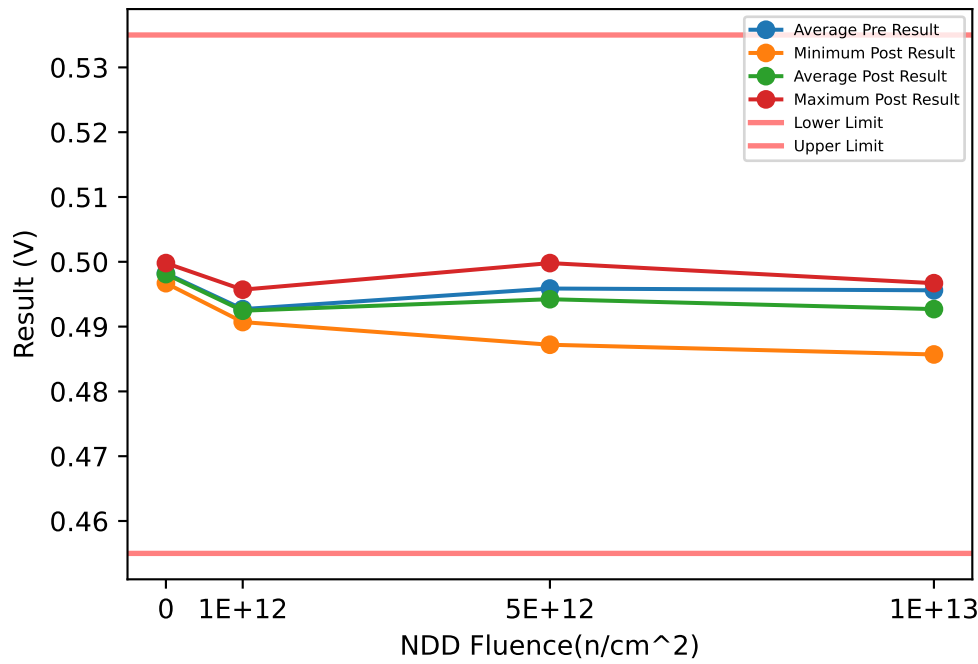


Test Statistics (V)

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	0.6002	0.60228	0.6038	0.0015174	0.5998	0.60218	0.6038	0.0017017	-0.0004	-0.0001	0	0.0002
1e+12	0.5947	0.59623	0.5998	0.002395	0.5942	0.59597	0.5998	0.0025825	-0.0005	-0.00025	0	0.00028868
5e+12	0.5917	0.59925	0.6043	0.0061782	0.5902	0.5975	0.6028	0.006334	-0.0025	-0.00175	-0.0015	0.0005
1e+13	0.5912	0.59887	0.6043	0.005506	0.5887	0.59545	0.5992	0.0046637	-0.0051	-0.003425	-0.0025	0.0012312

Device Test: 16.14 THRESHOLD|FALL/FAULT/14////@FAULT_VTH_FALLING

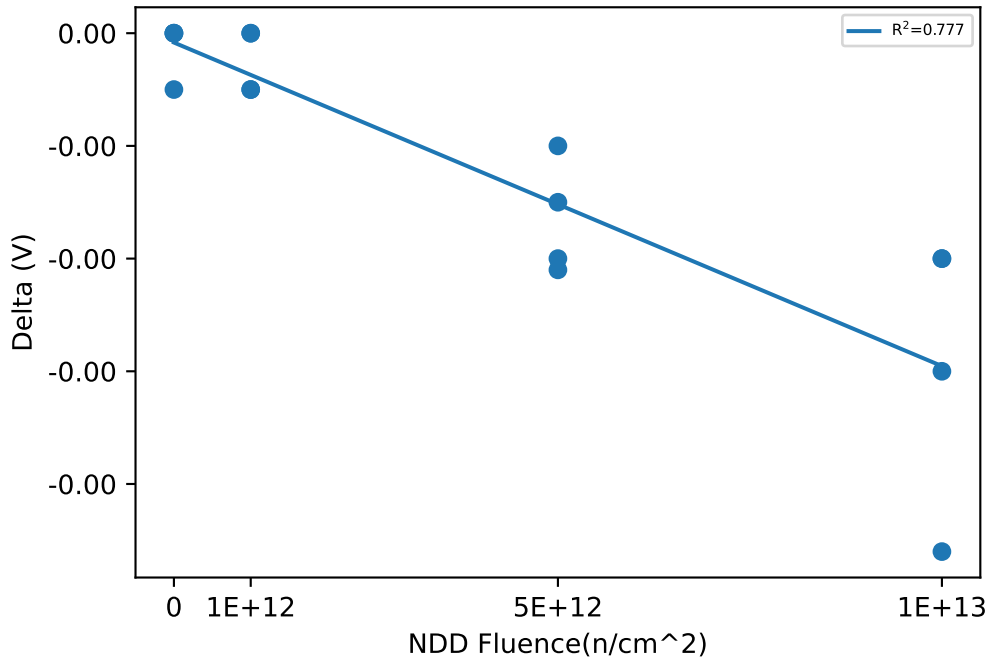
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4917	0.4917	0
101	1e+12	NDD	0.4917	0.4917	0
102	1e+12	NDD	0.4912	0.4907	-0.0005
103	1e+12	NDD	0.4962	0.4957	-0.0005
104	5e+12	NDD	0.5013	0.4992	-0.0021
105	5e+12	NDD	0.5008	0.4998	-0.001
106	5e+12	NDD	0.4927	0.4907	-0.002
107	5e+12	NDD	0.4887	0.4872	-0.0015
108	1e+13	NDD	0.4972	0.4952	-0.002
109	1e+13	NDD	0.5013	0.4967	-0.0046
110	1e+13	NDD	0.4877	0.4857	-0.002
111	1e+13	NDD	0.4962	0.4932	-0.003
732	0	CORRELATION	0.4998	0.4998	0
742	0	CORRELATION	0.4967	0.4967	0
879	0	CORRELATION	0.4982	0.4977	-0.0005
880	0	CORRELATION	0.4982	0.4982	0

NDD vs Post - Pre Exposure Delta

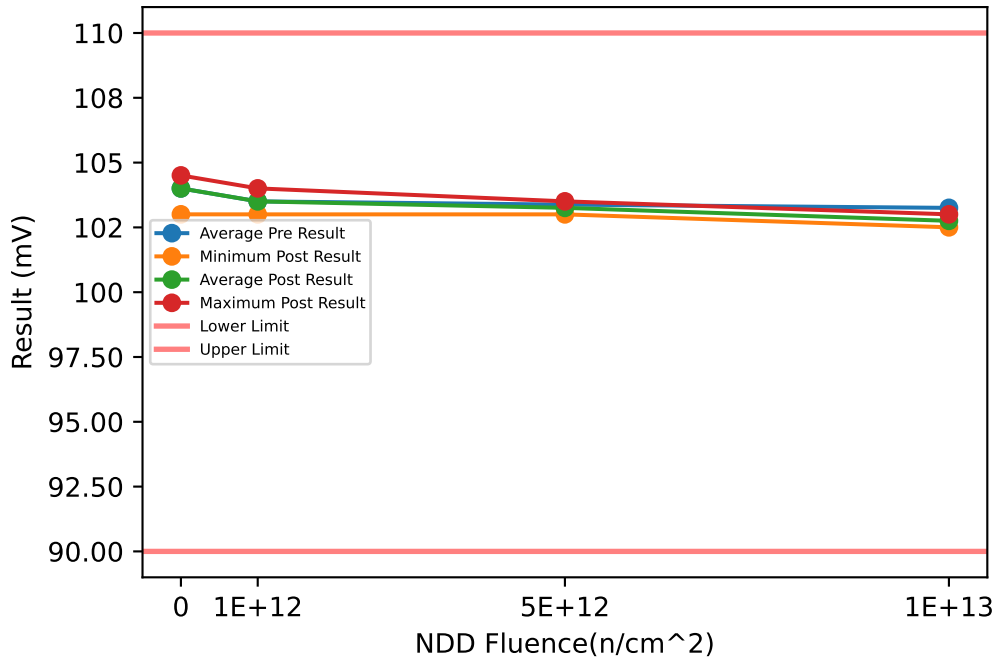


Test Statistics (V)

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	0.4967	0.49822	0.4998	0.0012659	0.4967	0.4981	0.4998	0.0012936	-0.0005	-0.000125	0	0.00025
1e+12	0.4912	0.4927	0.4962	0.0023452	0.4907	0.49245	0.4957	0.0022174	-0.0005	-0.00025	0	0.00028868
5e+12	0.4887	0.49588	0.5013	0.0061981	0.4872	0.49423	0.4998	0.0062612	-0.0021	-0.00165	-0.001	0.00050662
1e+13	0.4877	0.4956	0.5013	0.0057102	0.4857	0.4927	0.4967	0.0048819	-0.0046	-0.0029	-0.002	0.0012275

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

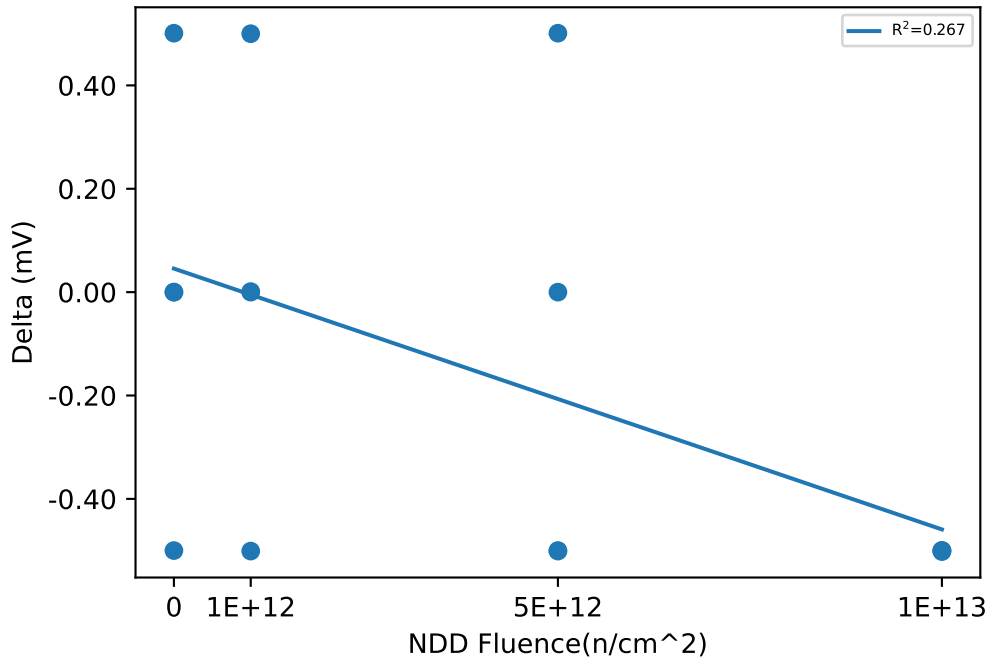
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	103.5	103	-0.501
101	1e+12	NDD	103.5	103.5	0
102	1e+12	NDD	103.5	103.5	0.001
103	1e+12	NDD	103.5	104	0.5
104	5e+12	NDD	103	103.5	0.501
105	5e+12	NDD	103.5	103	-0.501
106	5e+12	NDD	104	103.5	-0.5
107	5e+12	NDD	103	103	0
108	1e+13	NDD	103	102.5	-0.5
109	1e+13	NDD	103	102.5	-0.5
110	1e+13	NDD	103.5	103	-0.5
111	1e+13	NDD	103.5	103	-0.502
732	0	CORRELATION	104	104	0
742	0	CORRELATION	103.5	103	-0.5
879	0	CORRELATION	104	104.51	0.501
880	0	CORRELATION	104.5	104.5	0

NDD vs Post - Pre Exposure Delta

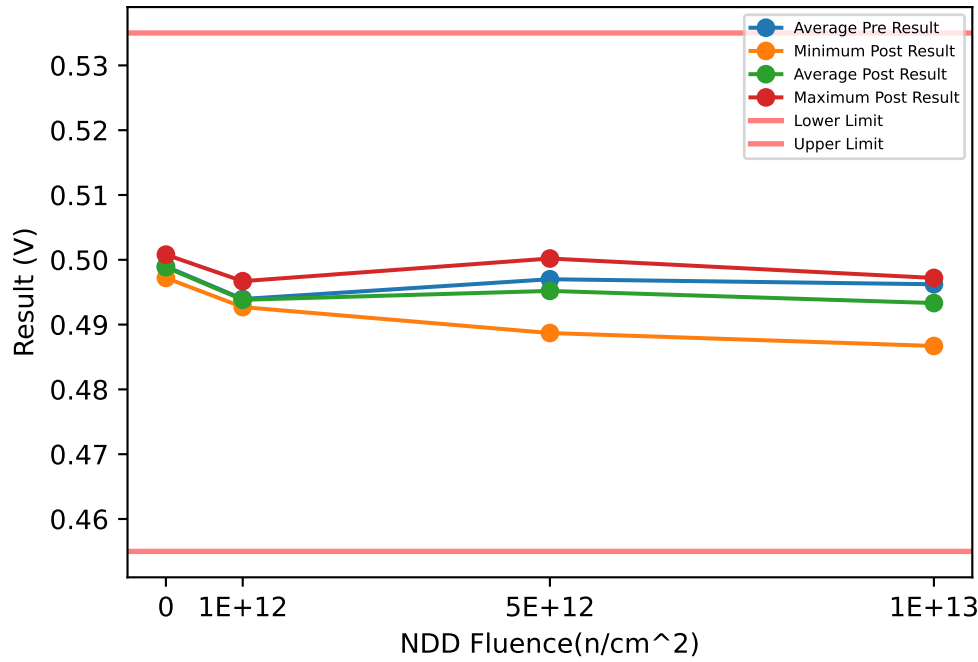


Test Statistics (mV)

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	103.5	104	104.5	0.40866	103	104	104.51	0.70781	-0.5	0.00025	0.501	0.40866
1e+12	103.5	103.5	103.5	0.0005	103	103.5	104	0.40907	-0.501	-3.5527e-15	0.5	0.40866
5e+12	103	103.38	104	0.47941	103	103.25	103.5	0.28925	-0.501	-0.125	0.501	0.47941
1e+13	103	103.25	103.5	0.28954	102.5	102.75	103	0.28896	-0.502	-0.5005	-0.5	0.001

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

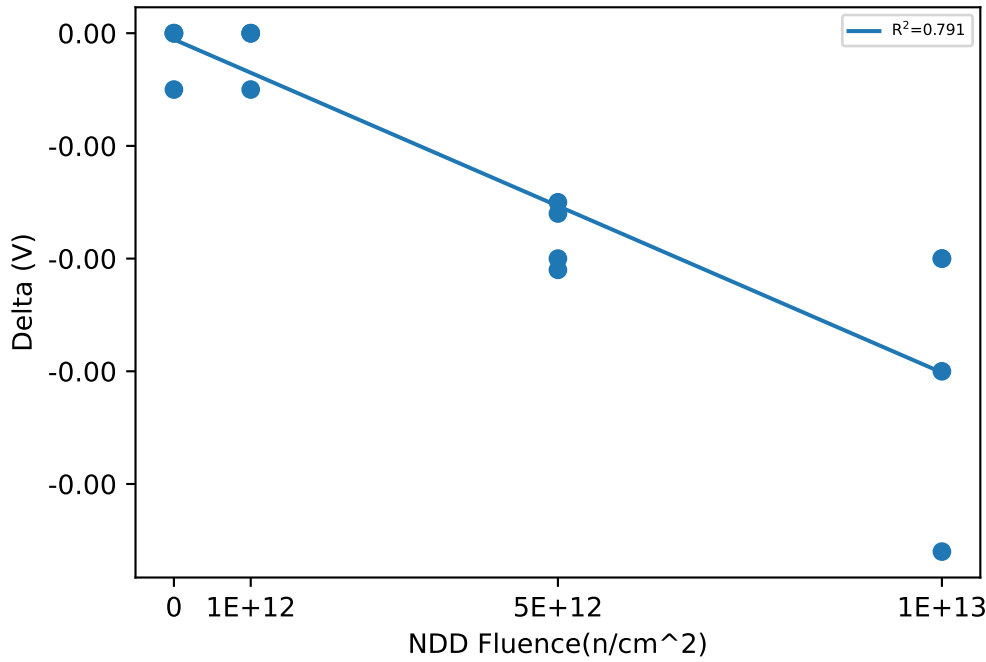
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4932	0.4927	-0.0005
101	1e+12	NDD	0.4927	0.4927	0
102	1e+12	NDD	0.4932	0.4932	0
103	1e+12	NDD	0.4967	0.4967	0
104	5e+12	NDD	0.5018	0.5002	-0.0016
105	5e+12	NDD	0.5023	0.5002	-0.0021
106	5e+12	NDD	0.4937	0.4917	-0.002
107	5e+12	NDD	0.4902	0.4887	-0.0015
108	1e+13	NDD	0.4977	0.4957	-0.002
109	1e+13	NDD	0.5018	0.4972	-0.0046
110	1e+13	NDD	0.4887	0.4867	-0.002
111	1e+13	NDD	0.4967	0.4937	-0.003
732	0	CORRELATION	0.5013	0.5008	-0.0005
742	0	CORRELATION	0.4972	0.4972	0
879	0	CORRELATION	0.4987	0.4987	0
880	0	CORRELATION	0.4987	0.4987	0

NDD vs Post - Pre Exposure Delta

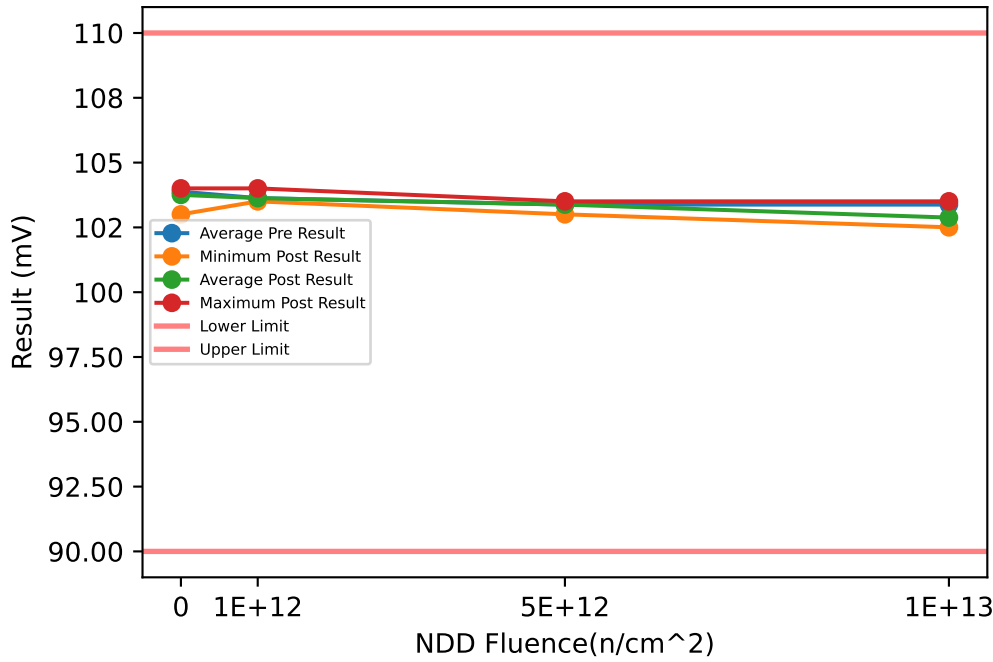


Test Statistics (V)

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	0.4972	0.49897	0.5013	0.0017037	0.4972	0.49885	0.5008	0.0014799	-0.0005	-0.000125	0	0.00025
1e+12	0.4927	0.49395	0.4967	0.0018484	0.4927	0.49383	0.4967	0.0019311	-0.0005	-0.000125	0	0.00025
5e+12	0.4902	0.497	0.5023	0.0060072	0.4887	0.4952	0.5002	0.005902	-0.0021	-0.0018	-0.0015	0.00029439
1e+13	0.4887	0.49623	0.5018	0.0054805	0.4867	0.49333	0.4972	0.0046435	-0.0046	-0.0029	-0.002	0.0012275

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

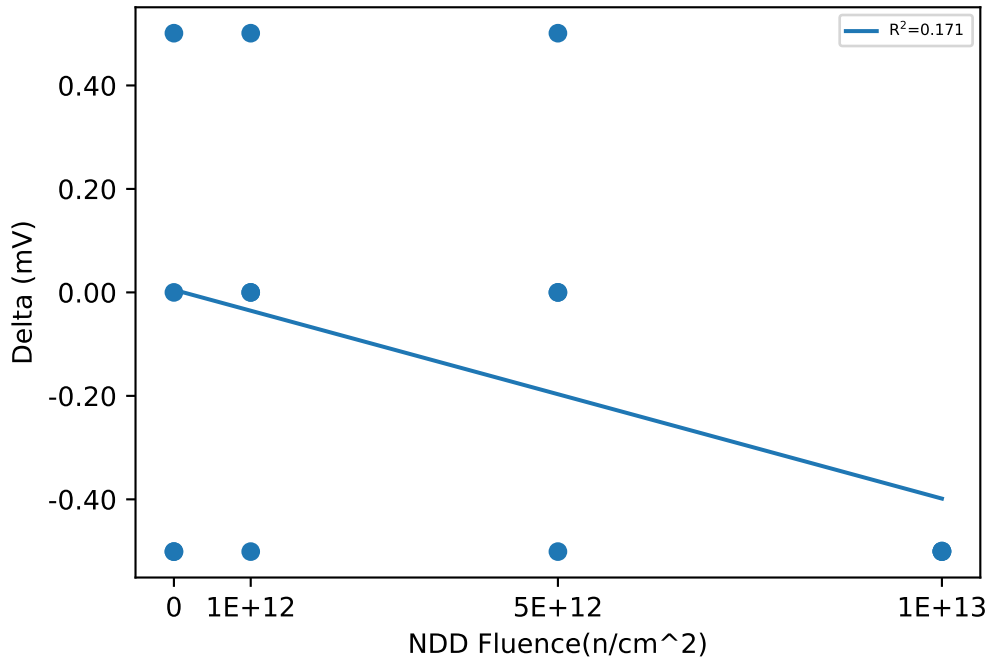
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	103	103.5	0.501
101	1e+12	NDD	103.5	103.5	0
102	1e+12	NDD	104	103.5	-0.501
103	1e+12	NDD	104	104	0
104	5e+12	NDD	103.5	103.5	0
105	5e+12	NDD	103	103.5	0.501
106	5e+12	NDD	104	103.5	-0.501
107	5e+12	NDD	103	103	0
108	1e+13	NDD	103	102.5	-0.501
109	1e+13	NDD	103	102.5	-0.501
110	1e+13	NDD	103.5	103	-0.5
111	1e+13	NDD	104	103.5	-0.5
732	0	CORRELATION	103.5	104	0.501
742	0	CORRELATION	103.5	103	-0.501
879	0	CORRELATION	104.51	104	-0.501
880	0	CORRELATION	104	104	0

NDD vs Post - Pre Exposure Delta

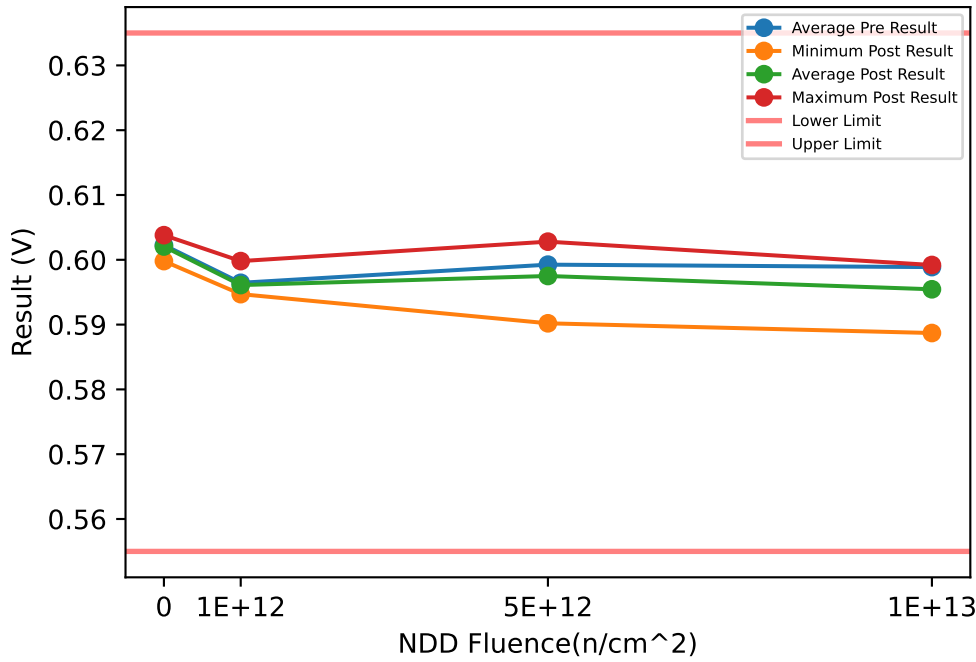


Test Statistics (mV)

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	103.5	103.88	104.51	0.47967	103	103.75	104	0.501	-0.501	-0.12525	0.501	0.47967
1e+12	103	103.63	104	0.47967	103.5	103.63	104	0.2505	-0.501	3.5527e-15	0.501	0.40906
5e+12	103	103.38	104	0.47924	103	103.38	103.5	0.25033	-0.501	0	0.501	0.40906
1e+13	103	103.38	104	0.47915	102.5	102.88	103.5	0.47967	-0.501	-0.5005	-0.5	0.00057735

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

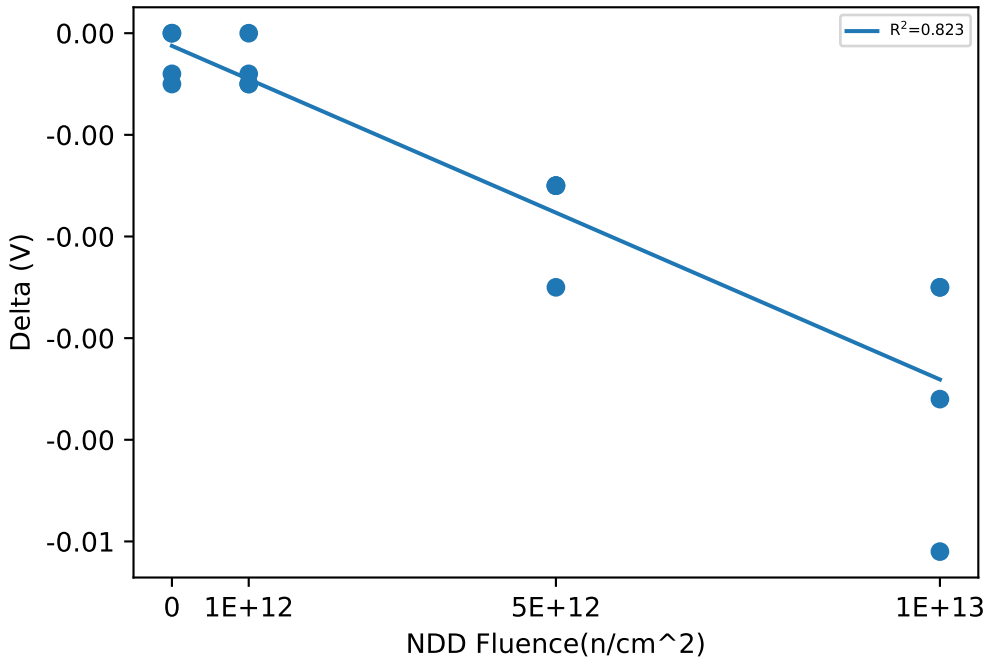
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.5952	0.5947	-0.0005
101	1e+12	NDD	0.5957	0.5952	-0.0005
102	1e+12	NDD	0.5947	0.5947	0
103	1e+12	NDD	0.6002	0.5998	-0.0004
104	5e+12	NDD	0.6043	0.6028	-0.0015
105	5e+12	NDD	0.6043	0.6028	-0.0015
106	5e+12	NDD	0.5967	0.5942	-0.0025
107	5e+12	NDD	0.5917	0.5902	-0.0015
108	1e+13	NDD	0.6002	0.5977	-0.0025
109	1e+13	NDD	0.6043	0.5992	-0.0051
110	1e+13	NDD	0.5912	0.5887	-0.0025
111	1e+13	NDD	0.5998	0.5962	-0.0036
732	0	CORRELATION	0.6038	0.6038	0
742	0	CORRELATION	0.6002	0.5998	-0.0004
879	0	CORRELATION	0.6023	0.6023	0
880	0	CORRELATION	0.6028	0.6023	-0.0005

NDD vs Post - Pre Exposure Delta

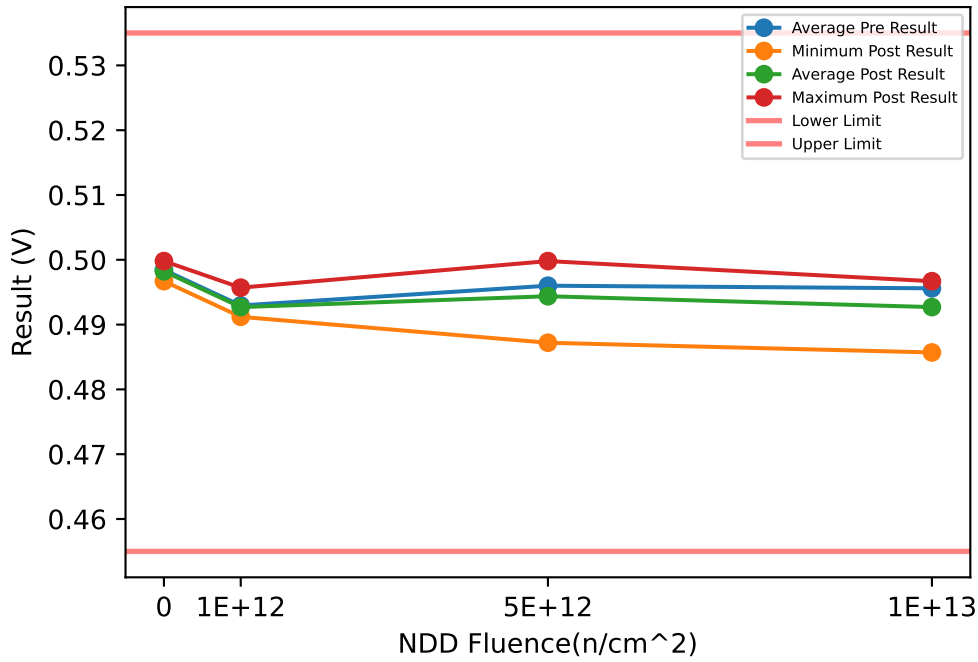


Test Statistics (V)

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	0.6002	0.60228	0.6038	0.0015174	0.5998	0.60205	0.6038	0.0016583	-0.0005	-0.000225	0	0.000263
1e+12	0.5947	0.59645	0.6002	0.0025331	0.5947	0.5961	0.5998	0.0024779	-0.0005	-0.00035	0	0.00023805
5e+12	0.5917	0.59925	0.6043	0.0061782	0.5902	0.5975	0.6028	0.006334	-0.0025	-0.00175	-0.0015	0.0005
1e+13	0.5912	0.59887	0.6043	0.005506	0.5887	0.59545	0.5992	0.0046637	-0.0051	-0.003425	-0.0025	0.0012312

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

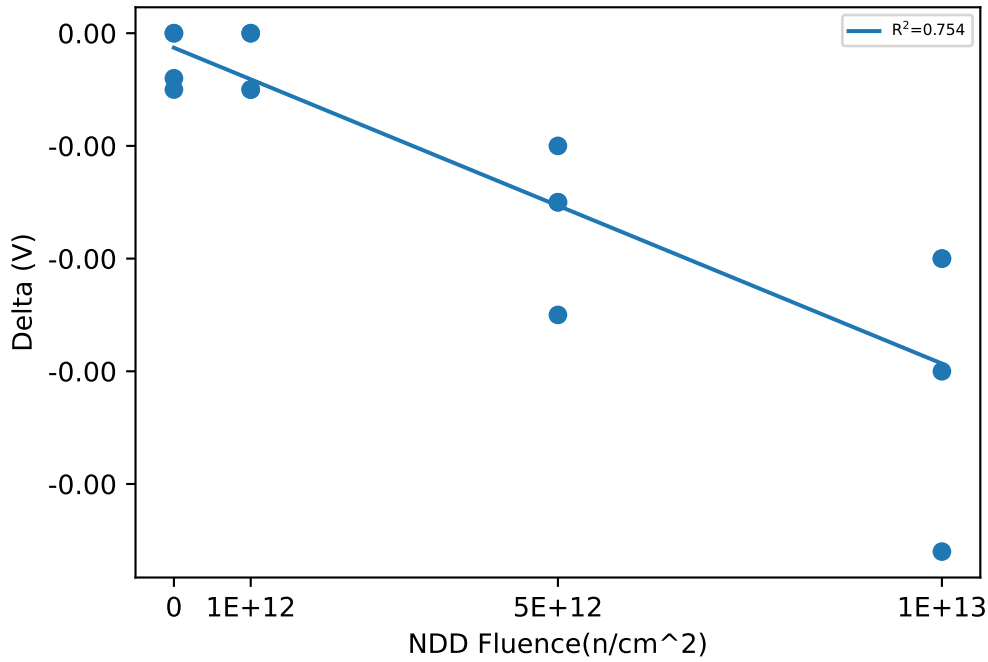
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4917	0.4917	0
101	1e+12	NDD	0.4922	0.4922	0
102	1e+12	NDD	0.4917	0.4912	-0.0005
103	1e+12	NDD	0.4962	0.4957	-0.0005
104	5e+12	NDD	0.5013	0.4998	-0.0015
105	5e+12	NDD	0.5008	0.4998	-0.001
106	5e+12	NDD	0.4932	0.4907	-0.0025
107	5e+12	NDD	0.4887	0.4872	-0.0015
108	1e+13	NDD	0.4972	0.4952	-0.002
109	1e+13	NDD	0.5013	0.4967	-0.0046
110	1e+13	NDD	0.4877	0.4857	-0.002
111	1e+13	NDD	0.4962	0.4932	-0.003
732	0	CORRELATION	0.5002	0.4998	-0.0004
742	0	CORRELATION	0.4967	0.4967	0
879	0	CORRELATION	0.4982	0.4982	0
880	0	CORRELATION	0.4987	0.4982	-0.0005

NDD vs Post - Pre Exposure Delta

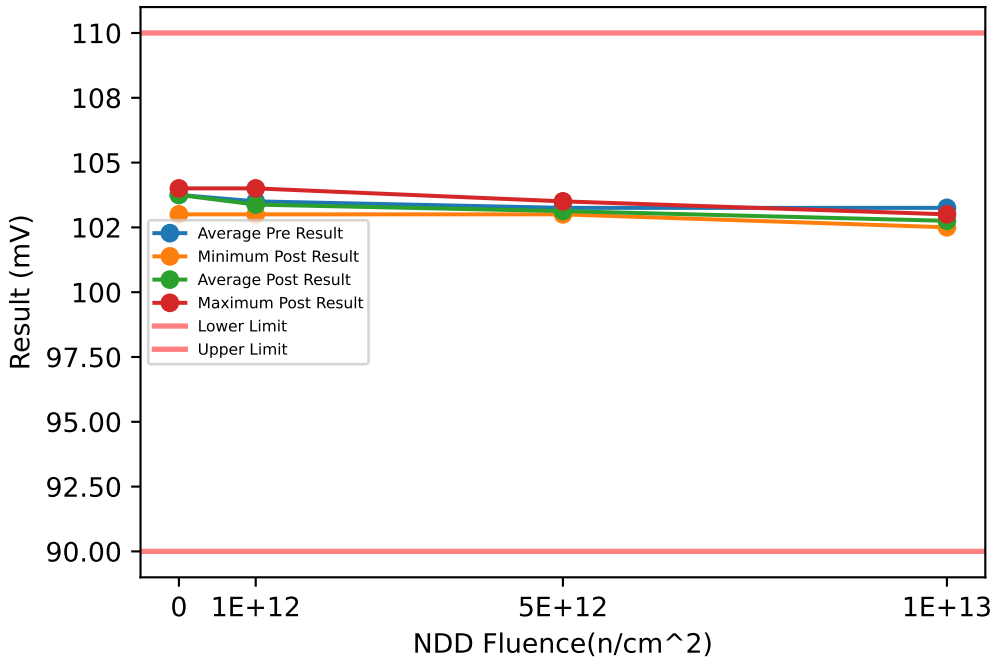


Test Statistics (V)

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	0.4967	0.49845	0.5002	0.0014434	0.4967	0.49822	0.4998	0.0012659	-0.0005	-0.000225	0	0.000263
1e+12	0.4917	0.49295	0.4962	0.0021794	0.4912	0.4927	0.4957	0.0020412	-0.0005	-0.00025	0	0.00028868
5e+12	0.4887	0.496	0.5013	0.0061172	0.4872	0.49438	0.4998	0.0064251	-0.0025	-0.001625	-0.001	0.00062915
1e+13	0.4877	0.4956	0.5013	0.0057102	0.4857	0.4927	0.4967	0.0048819	-0.0046	-0.0029	-0.002	0.0012275

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

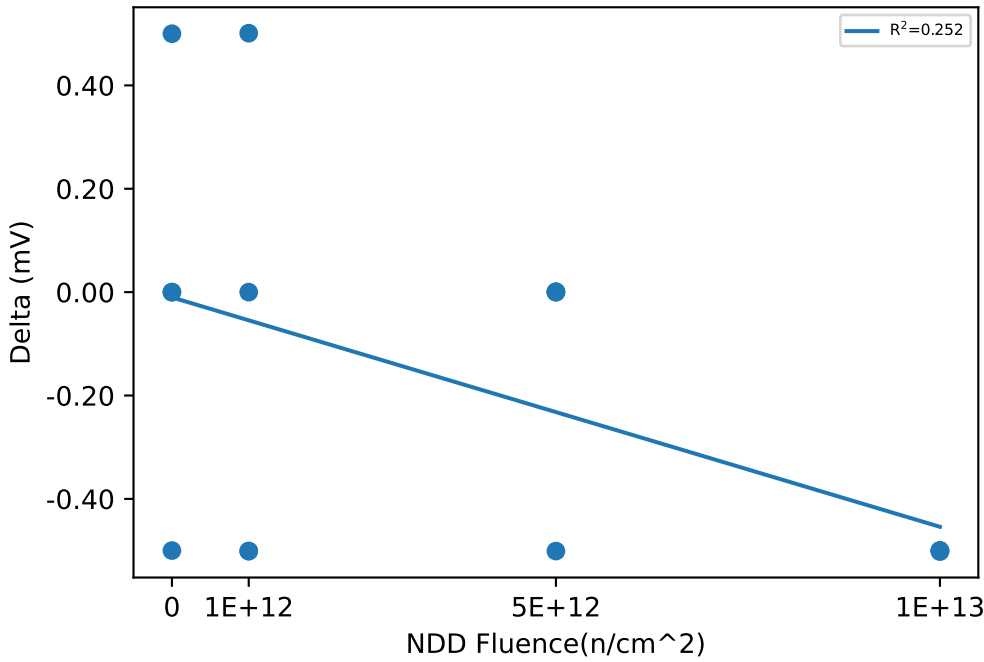
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	103.5	103	-0.501
101	1e+12	NDD	103.5	103	-0.501
102	1e+12	NDD	103	103.5	0.501
103	1e+12	NDD	104	104	0
104	5e+12	NDD	103	103	0
105	5e+12	NDD	103.5	103	-0.501
106	5e+12	NDD	103.5	103.5	0.001
107	5e+12	NDD	103	103	0
108	1e+13	NDD	103	102.5	-0.5
109	1e+13	NDD	103	102.5	-0.5
110	1e+13	NDD	103.5	103	-0.5
111	1e+13	NDD	103.5	103	-0.502
732	0	CORRELATION	103.5	104	0.5
742	0	CORRELATION	103.5	103	-0.5
879	0	CORRELATION	104	104	0
880	0	CORRELATION	104	104	0

NDD vs Post - Pre Exposure Delta

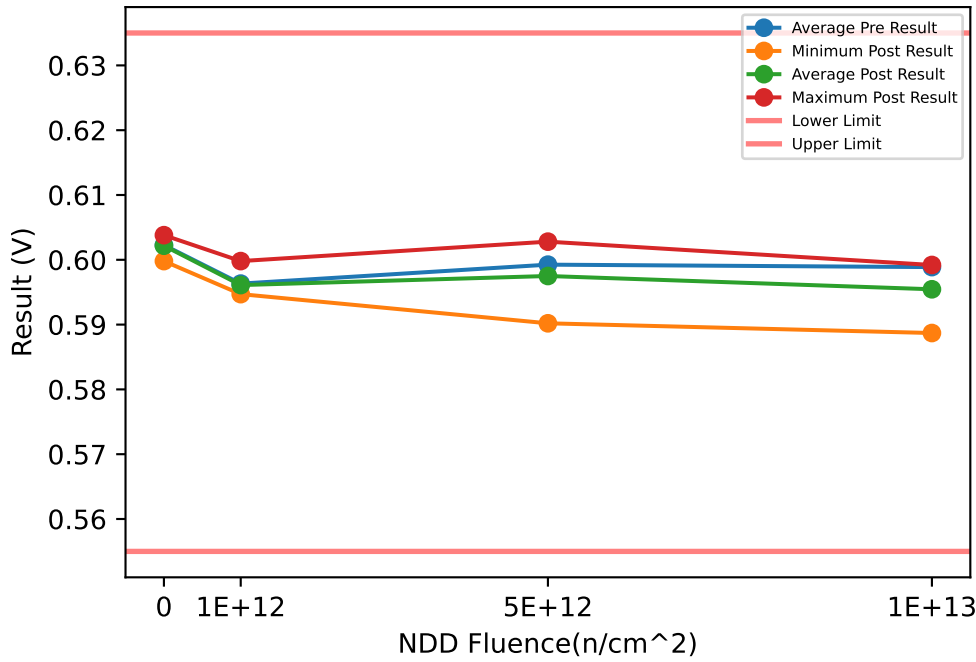


Test Statistics (mV)

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	103.5	103.75	104	0.28896	103	103.75	104	0.5005	-0.5	0	0.5	0.40825
1e+12	103	103.5	104	0.40907	103	103.38	104	0.47941	-0.501	-0.12525	0.501	0.47967
5e+12	103	103.25	103.5	0.28896	103	103.13	103.5	0.25083	-0.501	-0.125	0.001	0.25067
1e+13	103	103.25	103.5	0.28954	102.5	102.75	103	0.28896	-0.502	-0.5005	-0.5	0.001

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

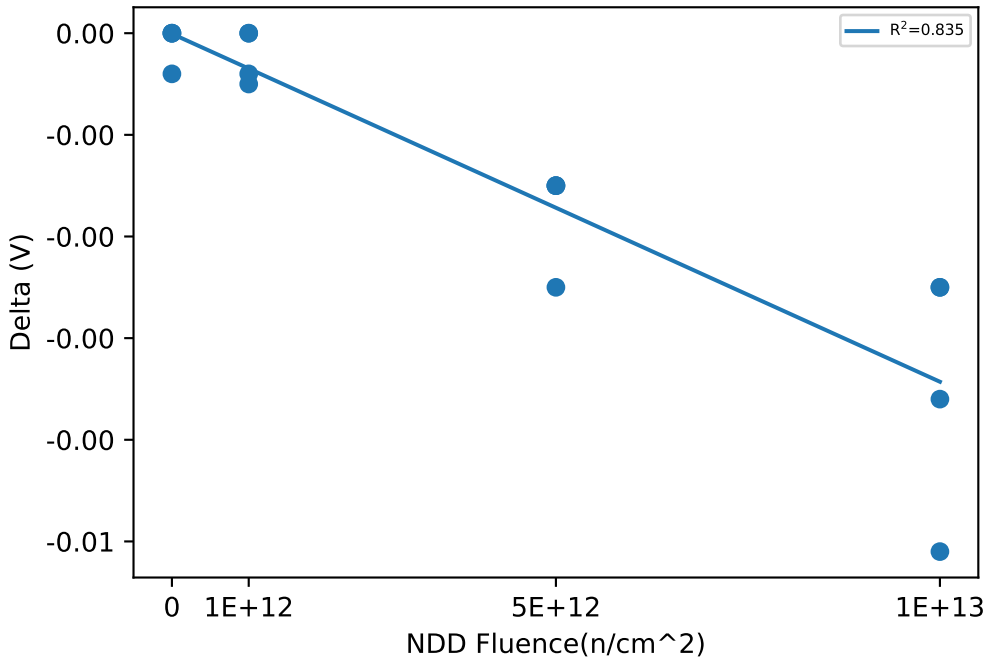
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.5952	0.5947	-0.0005
101	1e+12	NDD	0.5952	0.5952	0
102	1e+12	NDD	0.5947	0.5947	0
103	1e+12	NDD	0.6002	0.5998	-0.0004
104	5e+12	NDD	0.6043	0.6028	-0.0015
105	5e+12	NDD	0.6043	0.6028	-0.0015
106	5e+12	NDD	0.5967	0.5942	-0.0025
107	5e+12	NDD	0.5917	0.5902	-0.0015
108	1e+13	NDD	0.6002	0.5977	-0.0025
109	1e+13	NDD	0.6043	0.5992	-0.0051
110	1e+13	NDD	0.5912	0.5887	-0.0025
111	1e+13	NDD	0.5998	0.5962	-0.0036
732	0	CORRELATION	0.6038	0.6038	0
742	0	CORRELATION	0.6002	0.5998	-0.0004
879	0	CORRELATION	0.6023	0.6023	0
880	0	CORRELATION	0.6028	0.6028	0

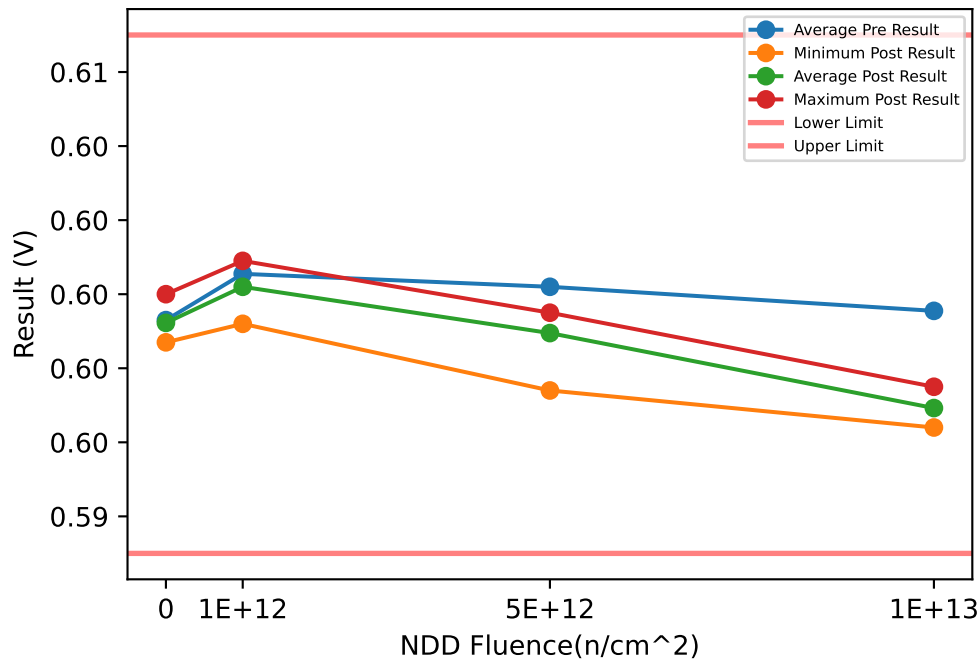
NDD vs Post - Pre Exposure Delta



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	0.6002	0.60228	0.6038	0.0015174	0.5998	0.60218	0.6038	0.0017017	-0.0004	-0.0001	0	0.0002
1e+12	0.5947	0.59632	0.6002	0.0025941	0.5947	0.5961	0.5998	0.0024779	-0.0005	-0.000225	0	0.000263
5e+12	0.5917	0.59925	0.6043	0.0061782	0.5902	0.5975	0.6028	0.006334	-0.0025	-0.00175	-0.0015	0.0005
1e+13	0.5912	0.59887	0.6043	0.005506	0.5887	0.59545	0.5992	0.0046637	-0.0051	-0.003425	-0.0025	0.0012312

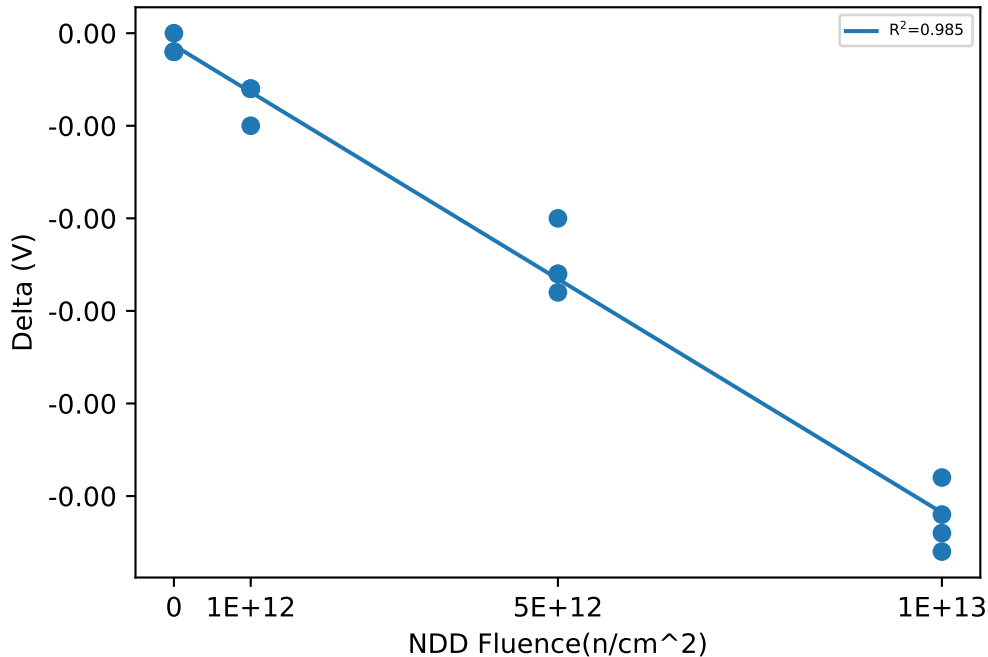
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6012	0.6009	-0.0003
101	1e+12	NDD	0.5995	0.5992	-0.0003
102	1e+12	NDD	0.6011	0.6008	-0.0003
103	1e+12	NDD	0.6004	0.5999	-0.0005
104	5e+12	NDD	0.6005	0.5995	-0.001
105	5e+12	NDD	0.6009	0.5995	-0.0014
106	5e+12	NDD	0.5987	0.5974	-0.0013
107	5e+12	NDD	0.6007	0.5994	-0.0013
108	1e+13	NDD	0.599	0.5964	-0.0026
109	1e+13	NDD	0.6002	0.5975	-0.0027
110	1e+13	NDD	0.5993	0.5969	-0.0024
111	1e+13	NDD	0.5997	0.5969	-0.0028
732	0	CORRELATION	0.5988	0.5987	-0.0001
742	0	CORRELATION	0.5991	0.5991	0
879	0	CORRELATION	0.6001	0.6	-0.0001
880	0	CORRELATION	0.5992	0.5991	-0.0001

NDD vs Post - Pre Exposure Delta

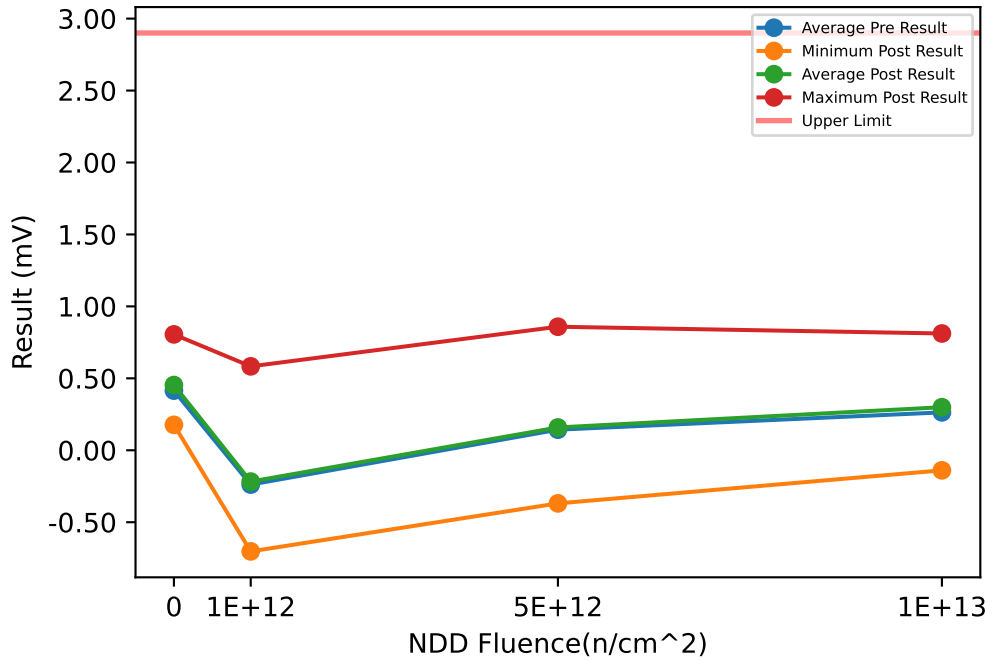


Test Statistics (V)

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	0.5988	0.5993	0.6001	0.00055976	0.5987	0.59923	0.6	0.00055	-0.0001	-7.5e-05	0	5e-05
1e+12	0.5995	0.60055	0.6012	0.00078528	0.5992	0.6002	0.6009	0.00080416	-0.0005	-0.00035	-0.0003	0.0001
5e+12	0.5987	0.6002	0.6009	0.0010132	0.5974	0.59895	0.5995	0.0010344	-0.0014	-0.00125	-0.001	0.00017321
1e+13	0.599	0.59955	0.6002	0.00051962	0.5964	0.59693	0.5975	0.00045	-0.0028	-0.002625	-0.0024	0.00017078

Device Test: 17.14 LEVEL|STATIC/VSNSP/5////@EA_INPUT_OFFSET_V

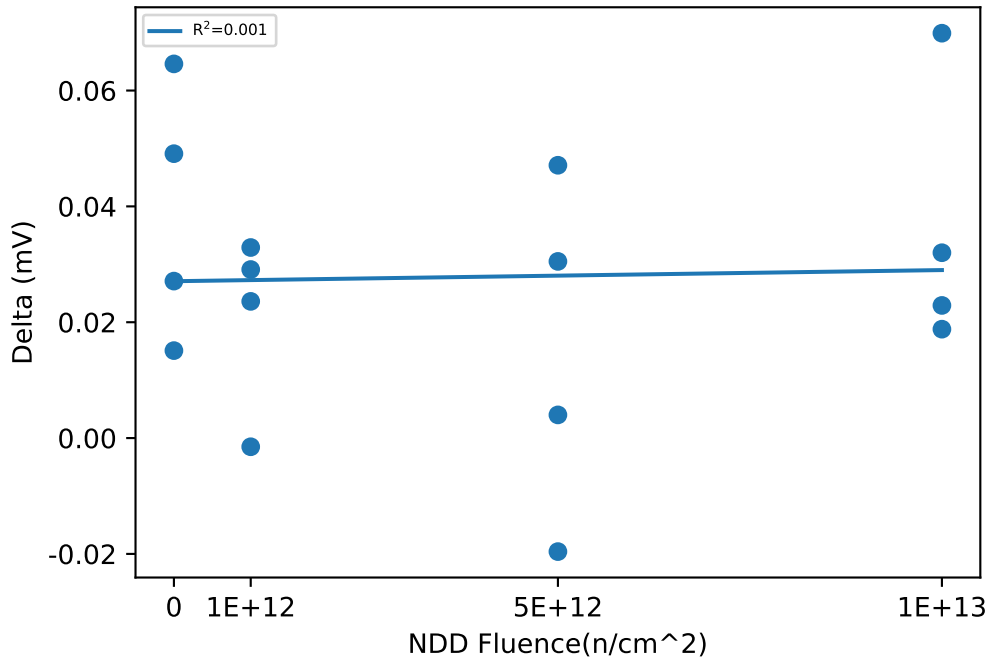
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	-0.7013	-0.7028	-0.0015
101	1e+12	NDD	0.5596	0.5832	0.0236
102	1e+12	NDD	-0.2657	-0.2328	0.0329
103	1e+12	NDD	-0.5466	-0.5175	0.0291
104	5e+12	NDD	0.1829	0.23	0.0471
105	5e+12	NDD	-0.3731	-0.3691	0.004
106	5e+12	NDD	0.8782	0.8586	-0.0196
107	5e+12	NDD	-0.1156	-0.0851	0.0305
108	1e+13	NDD	0.7797	0.8117	0.032
109	1e+13	NDD	-0.1623	-0.1394	0.0229
110	1e+13	NDD	0.3305	0.3493	0.0188
111	1e+13	NDD	0.1055	0.1754	0.0699
732	0	CORRELATION	0.377	0.4416	0.0646
742	0	CORRELATION	0.341	0.3901	0.0491
879	0	CORRELATION	0.1617	0.1768	0.0151
880	0	CORRELATION	0.7783	0.8054	0.0271

NDD vs Post - Pre Exposure Delta

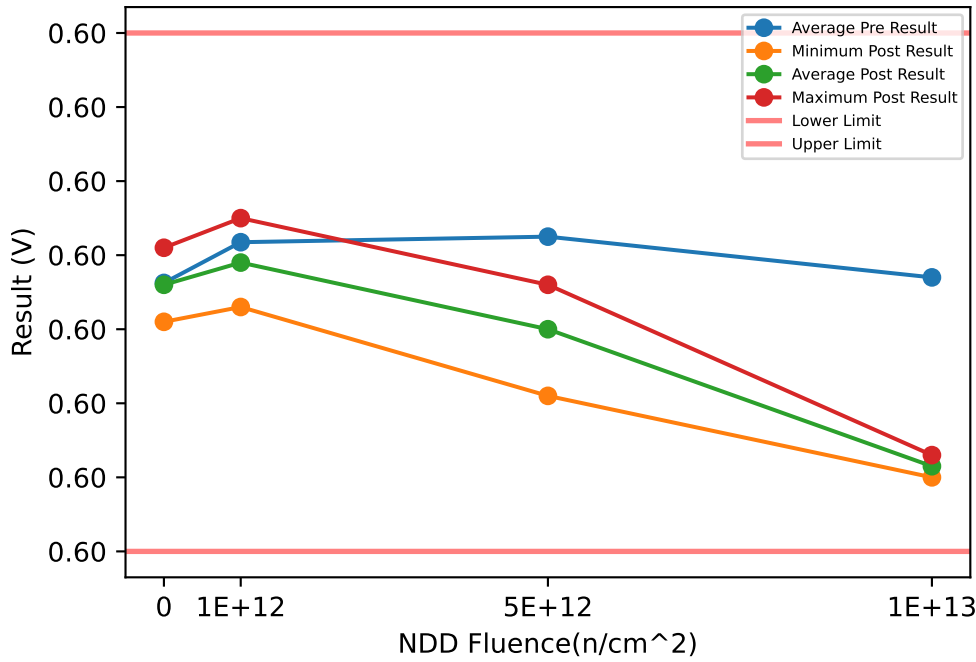


Test Statistics (mV)

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	0.1617	0.4145	0.7783	0.26017	0.1768	0.45348	0.8054	0.26112	0.0151	0.038975	0.0646	0.022137
1e+12	-0.7013	-0.2385	0.5596	0.56179	-0.7028	-0.21747	0.5832	0.56771	-0.0015	0.021025	0.0329	0.015494
5e+12	-0.3731	0.1431	0.8782	0.54017	-0.3691	0.1586	0.8586	0.52693	-0.0196	0.0155	0.0471	0.02937
1e+13	-0.1623	0.26335	0.7797	0.39884	-0.1394	0.29925	0.8117	0.39701	0.0188	0.0359	0.0699	0.023328

Device Test: 17.15 LEVEL|STATIC/SS_TR/5////@VREF_25C_PLST

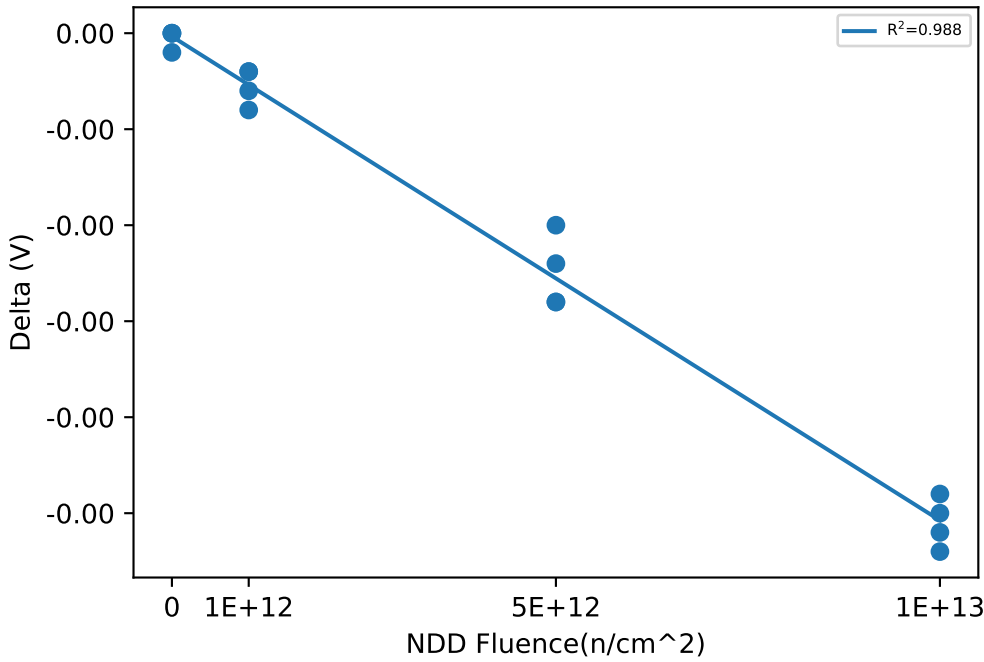
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6004	0.6001	-0.0003
101	1e+12	NDD	0.5999	0.5997	-0.0002
102	1e+12	NDD	0.6007	0.6005	-0.0002
103	1e+12	NDD	0.5997	0.5993	-0.0004
104	5e+12	NDD	0.6006	0.5996	-0.001
105	5e+12	NDD	0.6004	0.599	-0.0014
106	5e+12	NDD	0.5995	0.5981	-0.0014
107	5e+12	NDD	0.6005	0.5993	-0.0012
108	1e+13	NDD	0.5997	0.5972	-0.0025
109	1e+13	NDD	0.5999	0.5973	-0.0026
110	1e+13	NDD	0.5995	0.5971	-0.0024
111	1e+13	NDD	0.5997	0.597	-0.0027
732	0	CORRELATION	0.5991	0.5991	0
742	0	CORRELATION	0.5994	0.5994	0
879	0	CORRELATION	0.6002	0.6001	-0.0001
880	0	CORRELATION	0.5998	0.5998	0

NDD vs Post - Pre Exposure Delta

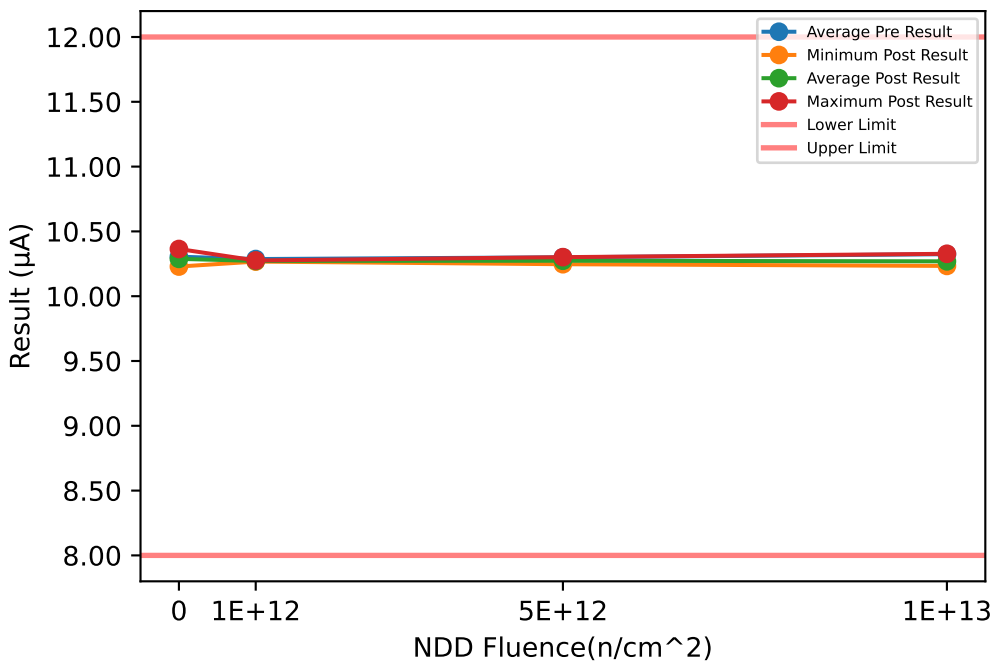


Test Statistics (V)

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	0.5991	0.59962	0.6002	0.00047871	0.5991	0.5996	0.6001	0.0004397	-0.0001	-2.5e-05	0	5e-05
1e+12	0.5997	0.60018	0.6007	0.00045735	0.5993	0.5999	0.6005	0.0005164	-0.0004	-0.000275	-0.0002	9.5743e-05
5e+12	0.5995	0.60025	0.6006	0.00050662	0.5981	0.599	0.5996	0.00064807	-0.0014	-0.00125	-0.001	0.00019149
1e+13	0.5995	0.5997	0.5999	0.0001633	0.597	0.59715	0.5973	0.0001291	-0.0027	-0.00255	-0.0024	0.0001291

Device Test: 17.16 IDD|POWERED/VSNSN/5////@VSNSM_CURR

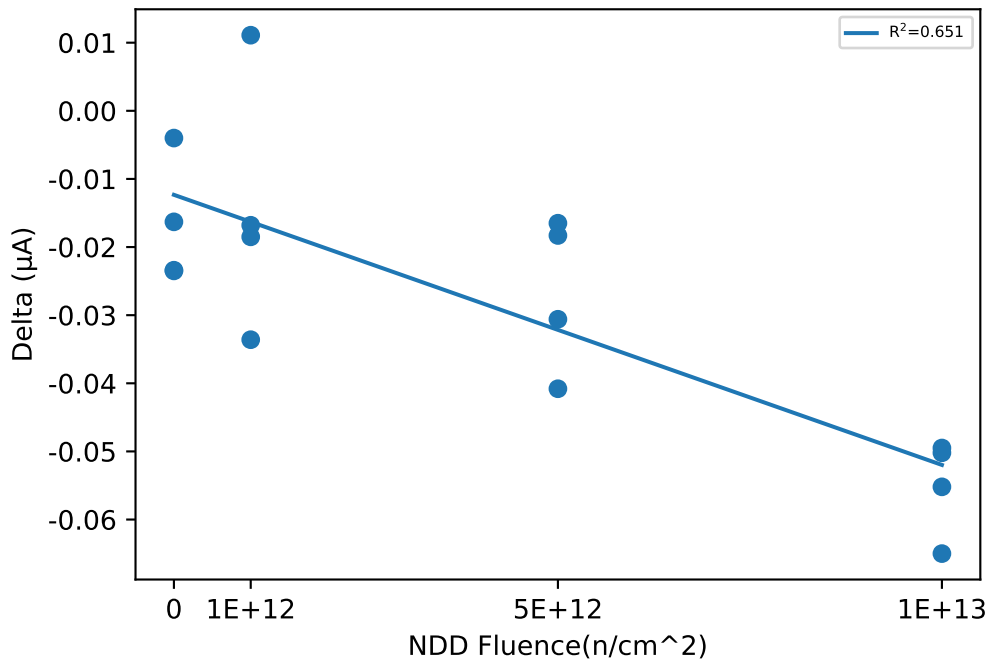
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	10.256	10.267	0.0111
101	1e+12	NDD	10.292	10.275	-0.0168
102	1e+12	NDD	10.294	10.276	-0.0185
103	1e+12	NDD	10.305	10.271	-0.0336
104	5e+12	NDD	10.309	10.291	-0.0183
105	5e+12	NDD	10.296	10.255	-0.0408
106	5e+12	NDD	10.263	10.247	-0.0165
107	5e+12	NDD	10.332	10.301	-0.0306
108	1e+13	NDD	10.289	10.234	-0.0552
109	1e+13	NDD	10.377	10.327	-0.0502
110	1e+13	NDD	10.312	10.262	-0.0495
111	1e+13	NDD	10.318	10.253	-0.065
732	0	CORRELATION	10.245	10.229	-0.0163
742	0	CORRELATION	10.309	10.285	-0.0234
879	0	CORRELATION	10.298	10.274	-0.0235
880	0	CORRELATION	10.368	10.364	-0.004

NDD vs Post - Pre Exposure Delta

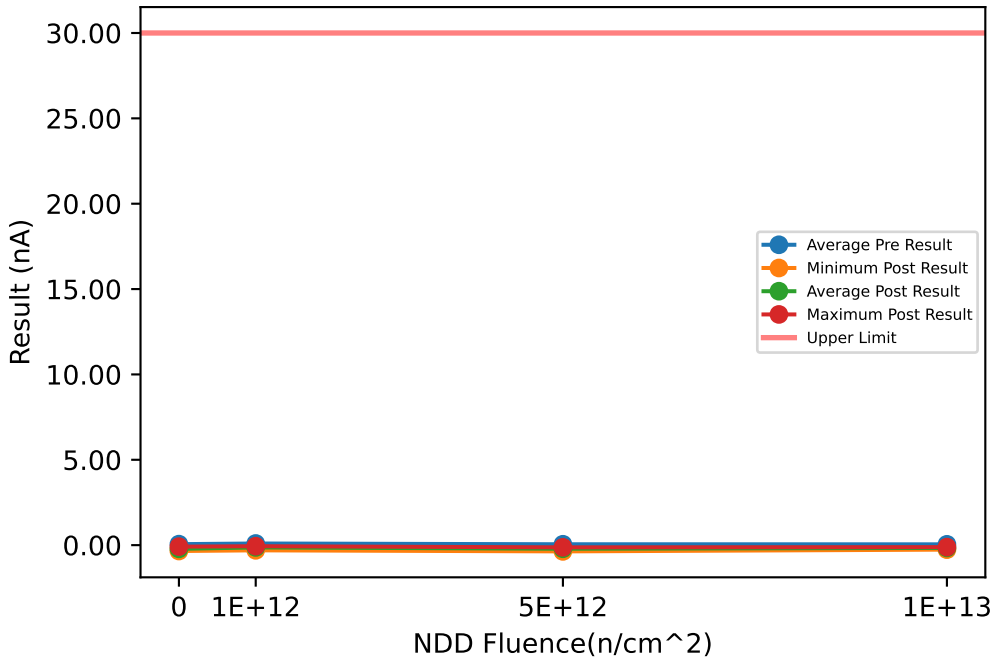


Test Statistics (µA)

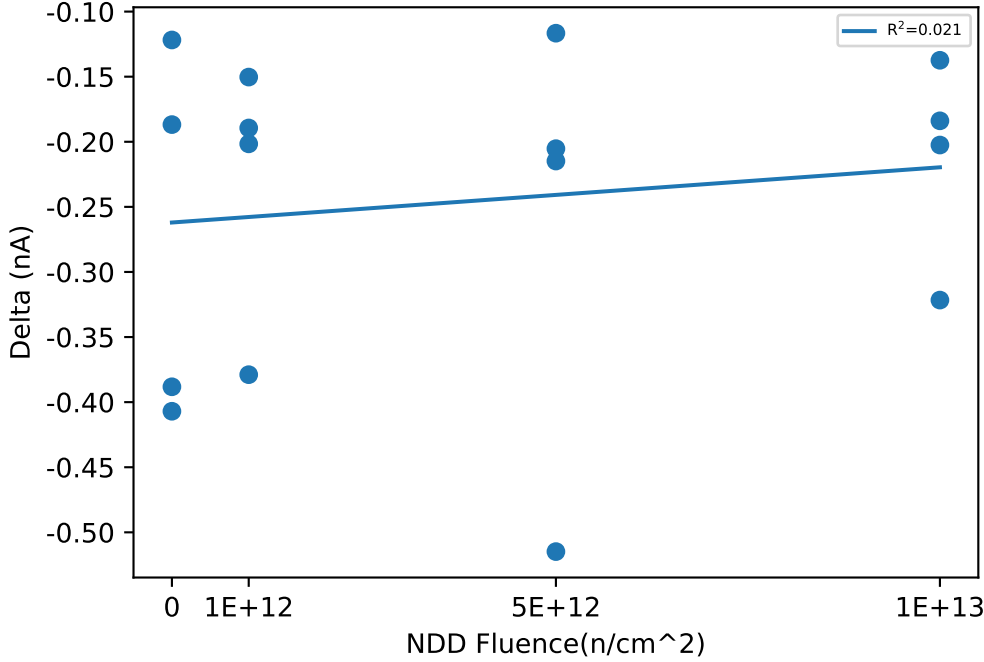
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	10.245	10.305	10.368	0.05049	10.229	10.288	10.364	0.056302	-0.0235	-0.0168	-0.004	0.009175
1e+12	10.256	10.287	10.305	0.021229	10.267	10.272	10.276	0.0041316	-0.0336	-0.01445	0.0111	0.018632
5e+12	10.263	10.3	10.332	0.028733	10.247	10.273	10.301	0.026729	-0.0408	-0.02655	-0.0165	0.01138
1e+13	10.289	10.324	10.377	0.037651	10.234	10.269	10.327	0.040497	-0.065	-0.054975	-0.0495	0.0071491

Device Test: 17.17 LEAK|POWERED/VSNSP/5////@VSNSP_LKG_CURR_0P6V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 30.0 (nA))

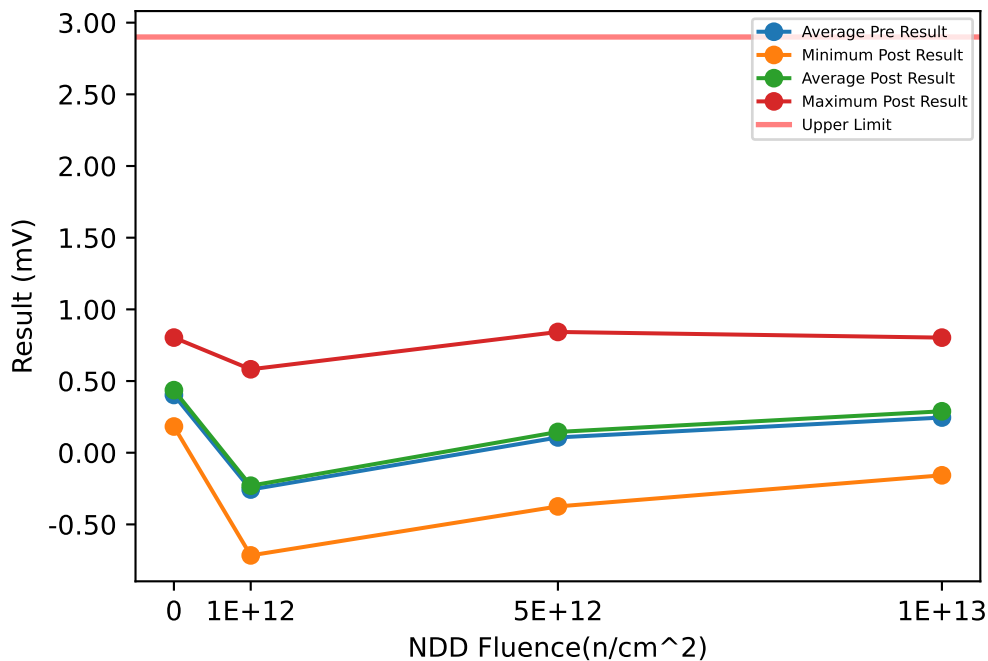
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.0747	-0.3042	-0.3789
101	1e+12	NDD	0.0679	-0.0824	-0.1503
102	1e+12	NDD	0.1174	-0.0842	-0.2016
103	1e+12	NDD	0.1263	-0.0631	-0.1894
104	5e+12	NDD	0.1482	-0.3666	-0.5148
105	5e+12	NDD	-0.0126	-0.1292	-0.1166
106	5e+12	NDD	0.0087	-0.1966	-0.2053
107	5e+12	NDD	0.0612	-0.1536	-0.2148
108	1e+13	NDD	0.058	-0.2636	-0.3216
109	1e+13	NDD	0.0857	-0.1168	-0.2025
110	1e+13	NDD	0.0435	-0.1404	-0.1839
111	1e+13	NDD	0.0025	-0.1349	-0.1374
732	0	CORRELATION	0.0622	-0.3448	-0.407
742	0	CORRELATION	0.042	-0.1448	-0.1868
879	0	CORRELATION	0.0337	-0.0881	-0.1218
880	0	CORRELATION	0.0934	-0.2948	-0.3882

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	0.0337	0.057825	0.0934	0.026565	-0.3448	-0.21813	-0.0881	0.12139	-0.407	-0.27595	-0.1218	0.14316
1e+12	0.0679	0.096575	0.1263	0.029541	-0.3042	-0.13348	-0.0631	0.11422	-0.3789	-0.23005	-0.1503	0.10162
5e+12	-0.0126	0.051375	0.1482	0.071614	-0.3666	-0.2115	-0.1292	0.10709	-0.5148	-0.26287	-0.1166	0.17367
1e+13	0.0025	0.047425	0.0857	0.034691	-0.2636	-0.16392	-0.1168	0.06721	-0.3216	-0.21135	-0.1374	0.078434

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

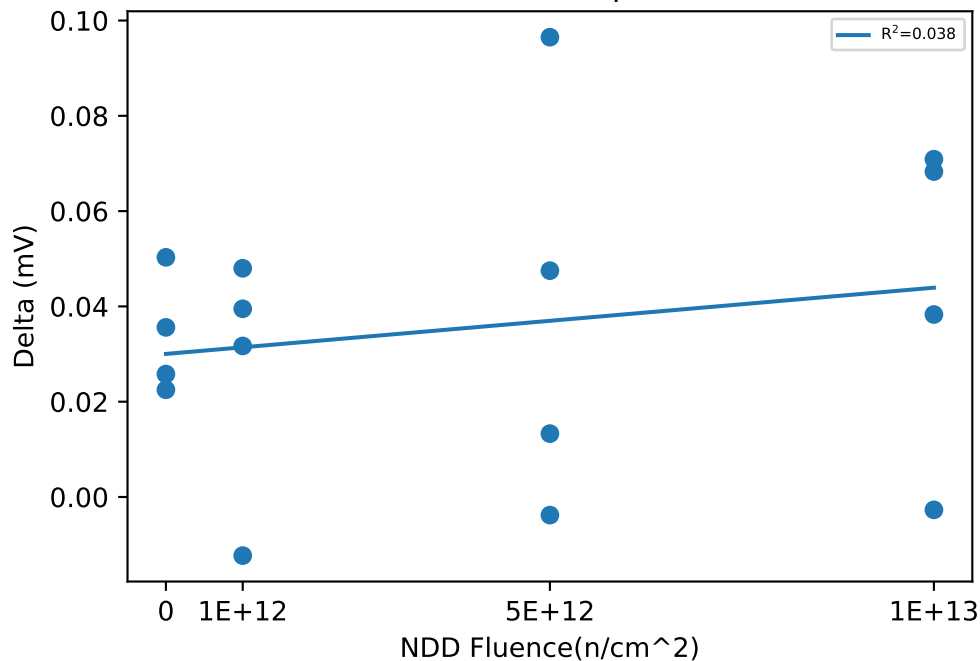
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	-0.7642	-0.7162	0.048
101	1e+12	NDD	0.5425	0.582	0.0395
102	1e+12	NDD	-0.2844	-0.2527	0.0317
103	1e+12	NDD	-0.521	-0.5333	-0.0123
104	5e+12	NDD	0.1284	0.2249	0.0965
105	5e+12	NDD	-0.422	-0.3745	0.0475
106	5e+12	NDD	0.8463	0.8425	-0.0038
107	5e+12	NDD	-0.1261	-0.1128	0.0133
108	1e+13	NDD	0.732	0.8029	0.0709
109	1e+13	NDD	-0.1958	-0.1575	0.0383
110	1e+13	NDD	0.3663	0.3636	-0.0027
111	1e+13	NDD	0.0791	0.1474	0.0683
732	0	CORRELATION	0.3751	0.4009	0.0258
742	0	CORRELATION	0.3084	0.3587	0.0503
879	0	CORRELATION	0.1604	0.1829	0.0225
880	0	CORRELATION	0.7676	0.8032	0.0356

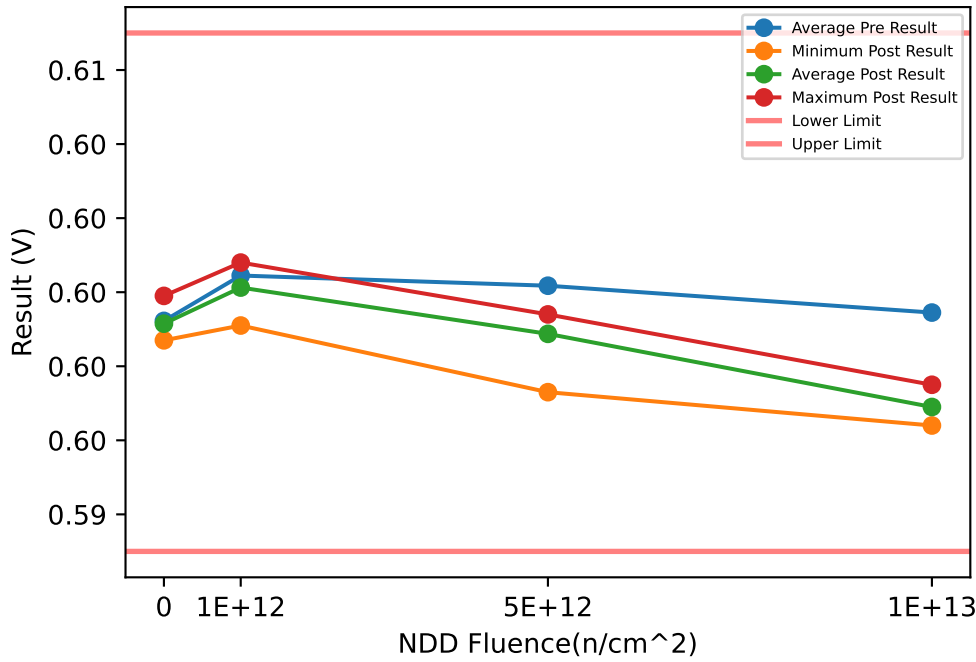
NDD vs Post - Pre Exposure Delta



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	0.1604	0.40287	0.7676	0.25918	0.1829	0.43643	0.8032	0.26211	0.0225	0.03355	0.0503	0.012476
1e+12	-0.7642	-0.25677	0.5425	0.56771	-0.7162	-0.23005	0.582	0.57395	-0.0123	0.026725	0.048	0.026855
5e+12	-0.422	0.10665	0.8463	0.54197	-0.3745	0.14503	0.8425	0.52575	-0.0038	0.038375	0.0965	0.044231
1e+13	-0.1958	0.2454	0.732	0.39737	-0.1575	0.2891	0.8029	0.40376	-0.0027	0.0437	0.0709	0.034289

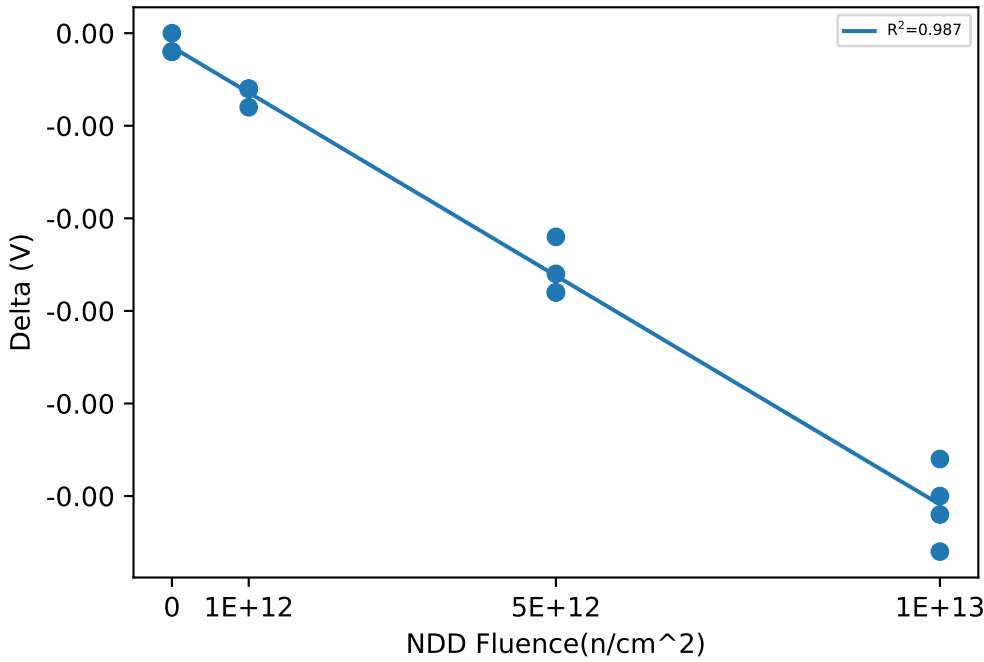
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6011	0.6008	-0.0003
101	1e+12	NDD	0.5994	0.5991	-0.0003
102	1e+12	NDD	0.601	0.6007	-0.0003
103	1e+12	NDD	0.6003	0.5999	-0.0004
104	5e+12	NDD	0.6005	0.5994	-0.0011
105	5e+12	NDD	0.6008	0.5994	-0.0014
106	5e+12	NDD	0.5987	0.5973	-0.0014
107	5e+12	NDD	0.6007	0.5994	-0.0013
108	1e+13	NDD	0.5989	0.5964	-0.0025
109	1e+13	NDD	0.6001	0.5975	-0.0026
110	1e+13	NDD	0.5992	0.5969	-0.0023
111	1e+13	NDD	0.5996	0.5968	-0.0028
732	0	CORRELATION	0.5988	0.5987	-0.0001
742	0	CORRELATION	0.599	0.599	0
879	0	CORRELATION	0.6	0.5999	-0.0001
880	0	CORRELATION	0.5991	0.599	-0.0001

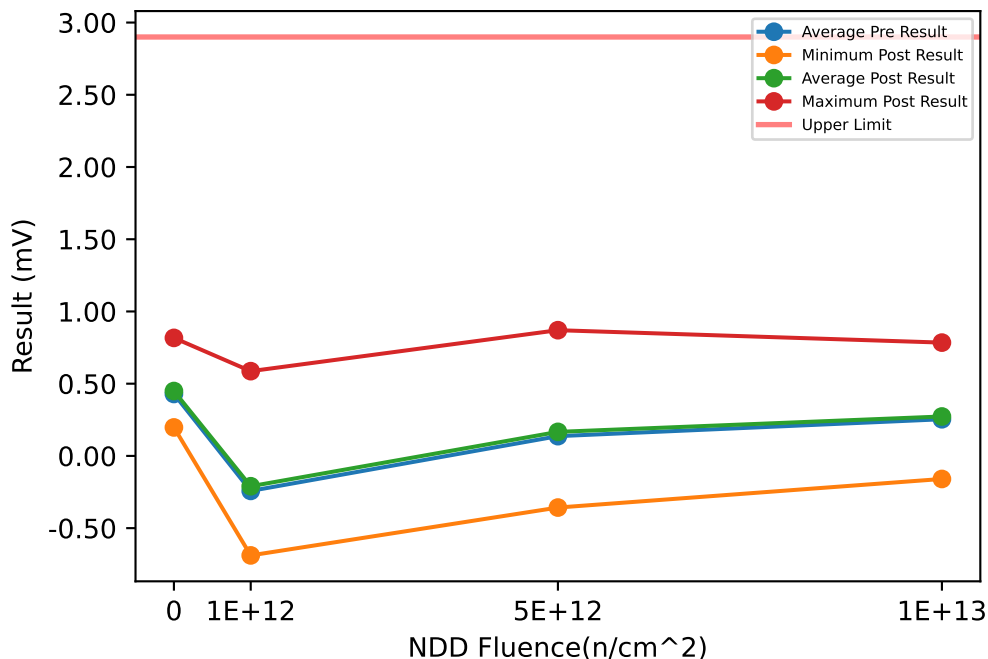
NDD vs Post - Pre Exposure Delta



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	0.5988	0.59923	0.6	0.00053151	0.5987	0.59915	0.5999	0.00051962	-0.0001	-7.5e-05	0	5e-05
1e+12	0.5994	0.60045	0.6011	0.00078528	0.5991	0.60013	0.6008	0.0007932	-0.0004	-0.000325	-0.0003	5e-05
5e+12	0.5987	0.60018	0.6008	0.00099121	0.5973	0.59888	0.5994	0.00105	-0.0014	-0.0013	-0.0011	0.00014142
1e+13	0.5989	0.59945	0.6001	0.00051962	0.5964	0.5969	0.5975	0.00045461	-0.0028	-0.00255	-0.0023	0.00020817

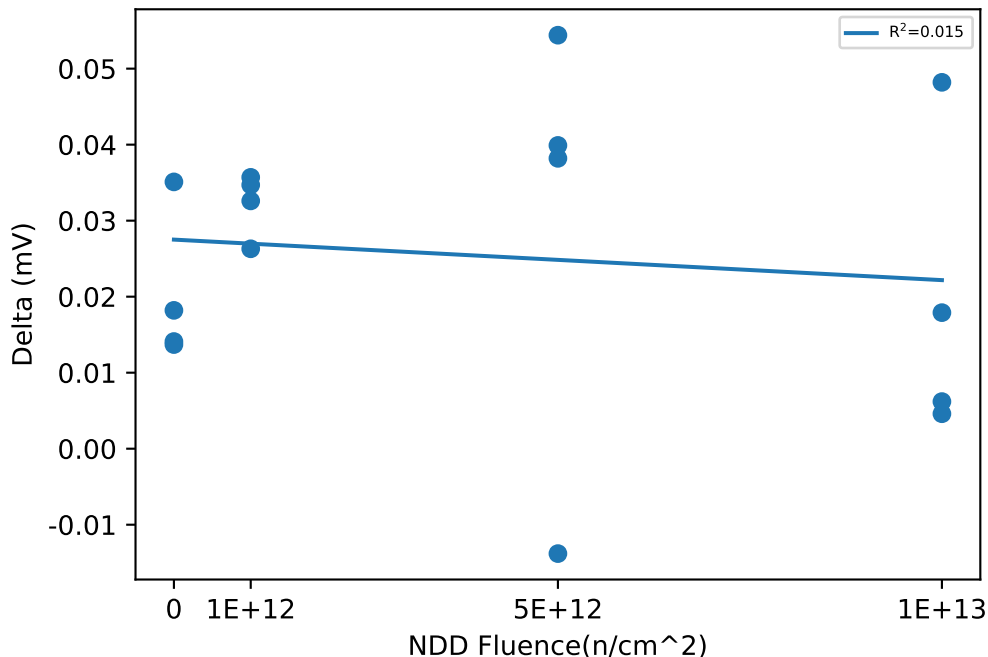
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	-0.7213	-0.6887	0.0326
101	1e+12	NDD	0.551	0.5867	0.0357
102	1e+12	NDD	-0.2615	-0.2352	0.0263
103	1e+12	NDD	-0.5374	-0.5027	0.0347
104	5e+12	NDD	0.1669	0.2213	0.0544
105	5e+12	NDD	-0.3957	-0.3575	0.0382
106	5e+12	NDD	0.8841	0.8703	-0.0138
107	5e+12	NDD	-0.1083	-0.0684	0.0399
108	1e+13	NDD	0.7665	0.7844	0.0179
109	1e+13	NDD	-0.1642	-0.1596	0.0046
110	1e+13	NDD	0.3215	0.3277	0.0062
111	1e+13	NDD	0.0911	0.1393	0.0482
732	0	CORRELATION	0.3843	0.4194	0.0351
742	0	CORRELATION	0.3491	0.3628	0.0137
879	0	CORRELATION	0.1831	0.1972	0.0141
880	0	CORRELATION	0.7988	0.817	0.0182

NDD vs Post - Pre Exposure Delta

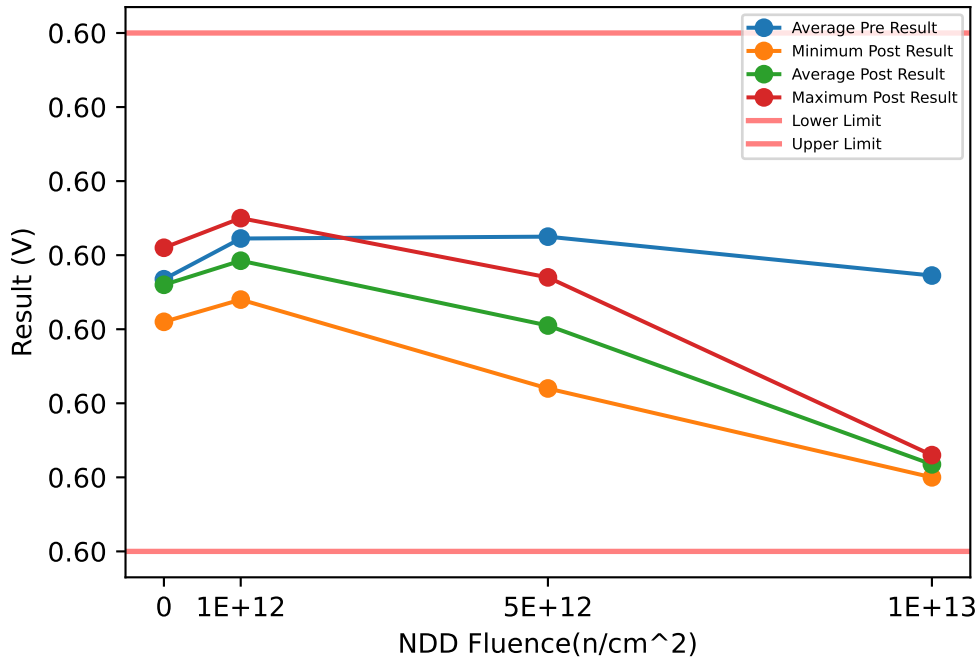


Test Statistics (mV)

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	0.1831	0.42883	0.7988	0.26179	0.1972	0.4491	0.817	0.26276	0.0137	0.020275	0.0351	0.01009
1e+12	-0.7213	-0.2423	0.551	0.56161	-0.6887	-0.20997	0.5867	0.56279	0.0263	0.032325	0.0357	0.0042193
5e+12	-0.3957	0.13675	0.8841	0.54863	-0.3575	0.16642	0.8703	0.52539	-0.0138	0.029675	0.0544	0.029881
1e+13	-0.1642	0.25372	0.7665	0.39524	-0.1596	0.27295	0.7844	0.39562	0.0046	0.019225	0.0482	0.020206

Device Test: 17.27 LEVEL|STATIC/SS_TR/12////@VREF_25C_PLST

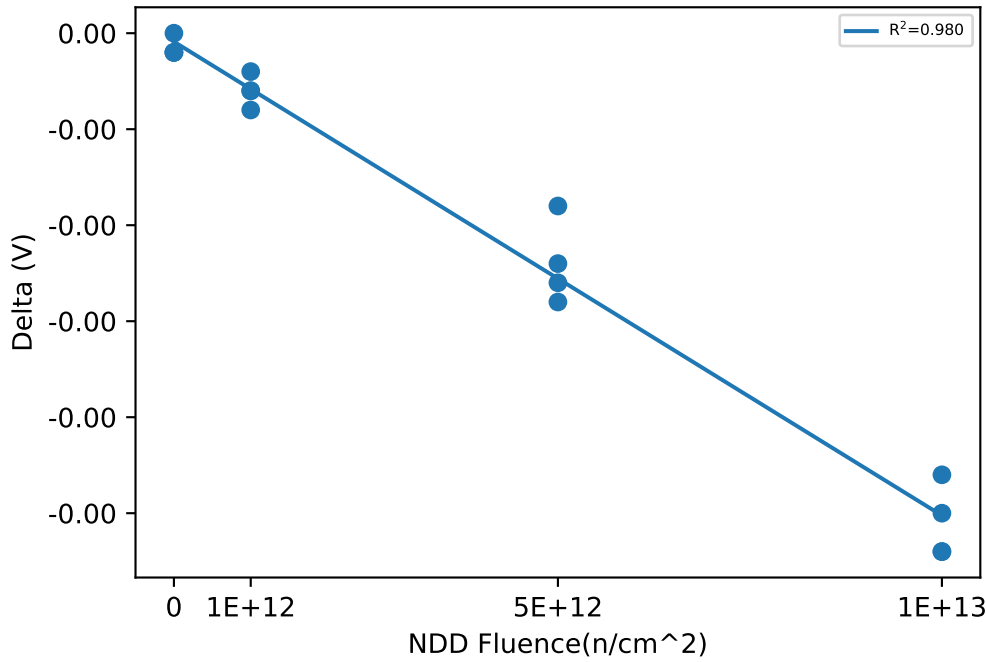
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6004	0.6001	-0.0003
101	1e+12	NDD	0.5999	0.5997	-0.0002
102	1e+12	NDD	0.6008	0.6005	-0.0003
103	1e+12	NDD	0.5998	0.5994	-0.0004
104	5e+12	NDD	0.6006	0.5997	-0.0009
105	5e+12	NDD	0.6004	0.599	-0.0014
106	5e+12	NDD	0.5995	0.5982	-0.0013
107	5e+12	NDD	0.6005	0.5993	-0.0012
108	1e+13	NDD	0.5997	0.5972	-0.0025
109	1e+13	NDD	0.6	0.5973	-0.0027
110	1e+13	NDD	0.5995	0.5972	-0.0023
111	1e+13	NDD	0.5997	0.597	-0.0027
732	0	CORRELATION	0.5992	0.5991	-0.0001
742	0	CORRELATION	0.5994	0.5994	0
879	0	CORRELATION	0.6002	0.6001	-0.0001
880	0	CORRELATION	0.5999	0.5998	-0.0001

NDD vs Post - Pre Exposure Delta

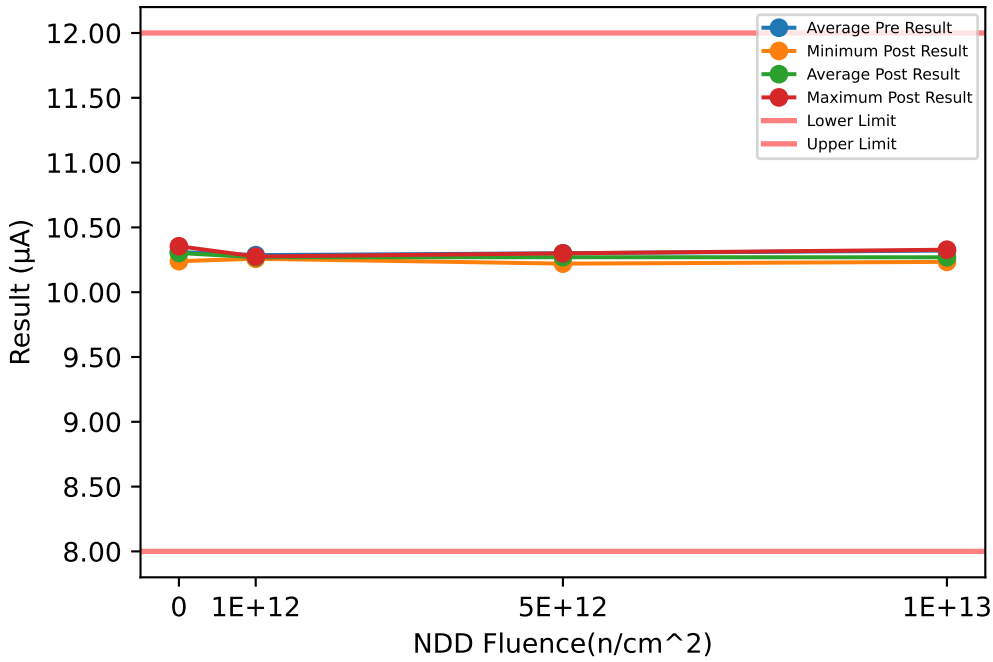


Test Statistics (V)

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	0.5992	0.59967	0.6002	0.00045735	0.5991	0.5996	0.6001	0.0004397	-0.0001	-7.5e-05	0	5e-05
1e+12	0.5998	0.60023	0.6008	0.00046458	0.5994	0.59993	0.6005	0.00047871	-0.0004	-0.0003	-0.0002	8.165e-05
5e+12	0.5995	0.60025	0.6006	0.00050662	0.5982	0.59905	0.5997	0.00063509	-0.0014	-0.0012	-0.0009	0.00021602
1e+13	0.5995	0.59973	0.6	0.00020616	0.597	0.59718	0.5973	0.00012583	-0.0027	-0.00255	-0.0023	0.00019149

Device Test: 17.28 IDD|POWERED/VSNSN/12////@VSNSM_CURR

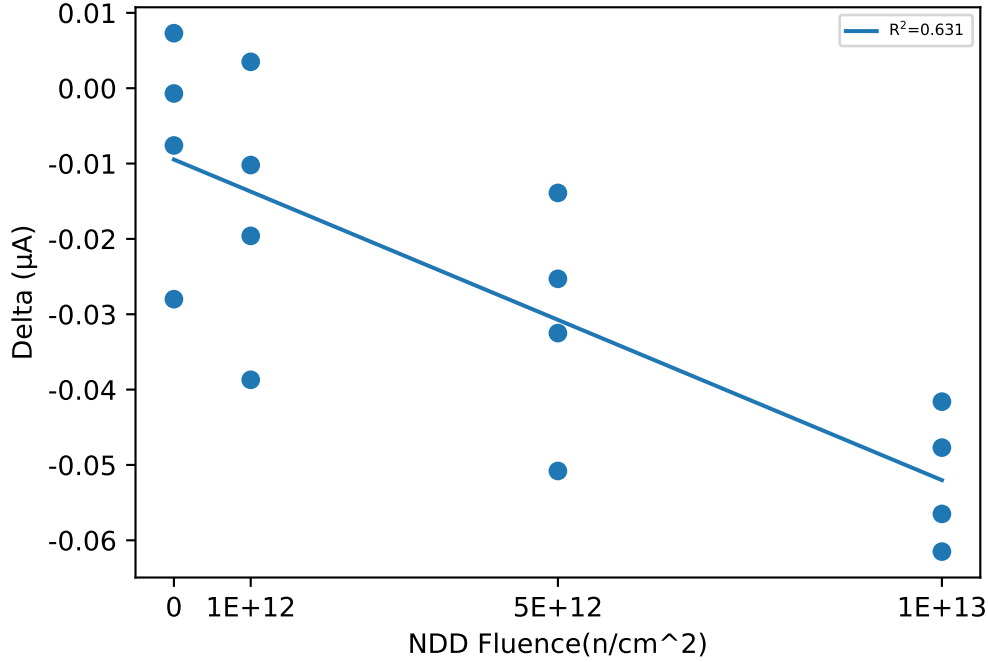
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	10.268	10.258	-0.0102
101	1e+12	NDD	10.272	10.275	0.0035
102	1e+12	NDD	10.291	10.271	-0.0196
103	1e+12	NDD	10.313	10.275	-0.0387
104	5e+12	NDD	10.325	10.3	-0.0253
105	5e+12	NDD	10.295	10.281	-0.0139
106	5e+12	NDD	10.253	10.22	-0.0325
107	5e+12	NDD	10.329	10.278	-0.0508
108	1e+13	NDD	10.282	10.234	-0.0477
109	1e+13	NDD	10.369	10.328	-0.0416
110	1e+13	NDD	10.319	10.263	-0.0565
111	1e+13	NDD	10.314	10.252	-0.0615
732	0	CORRELATION	10.24	10.239	-0.0007
742	0	CORRELATION	10.302	10.309	0.0073
879	0	CORRELATION	10.314	10.306	-0.0076
880	0	CORRELATION	10.383	10.355	-0.028

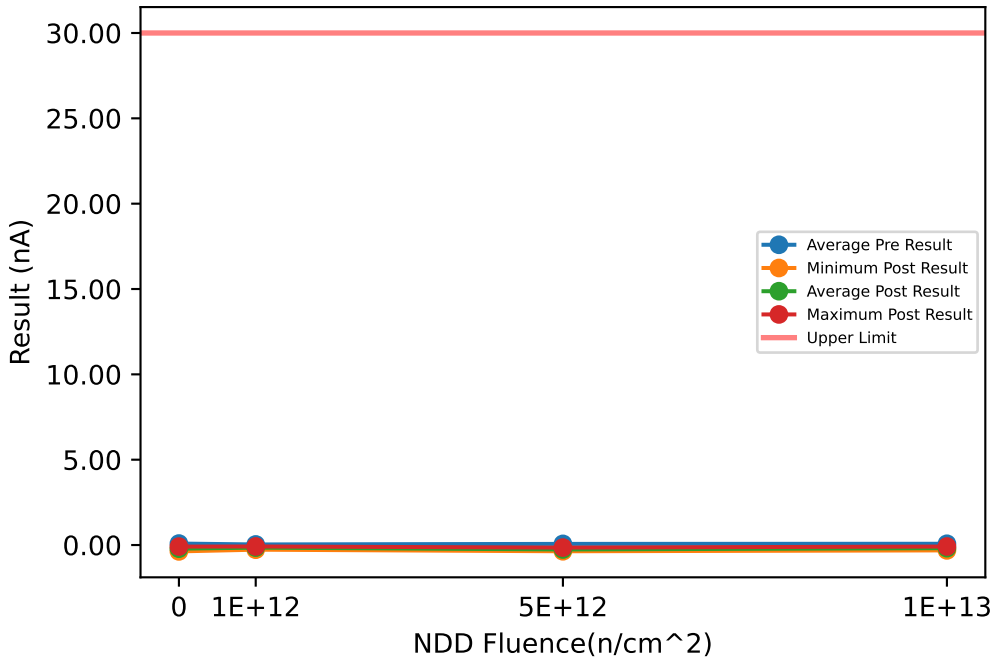
NDD vs Post - Pre Exposure Delta



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	10.24	10.31	10.383	0.058543	10.239	10.302	10.355	0.047576	-0.028	-0.00725	0.0073	0.015114
1e+12	10.268	10.286	10.313	0.020719	10.258	10.27	10.275	0.0080577	-0.0387	-0.01625	0.0035	0.017719
5e+12	10.253	10.3	10.329	0.035285	10.22	10.27	10.3	0.034326	-0.0508	-0.030625	-0.0139	0.015477
1e+13	10.282	10.321	10.369	0.036187	10.234	10.269	10.328	0.040737	-0.0615	-0.051825	-0.0416	0.0088887

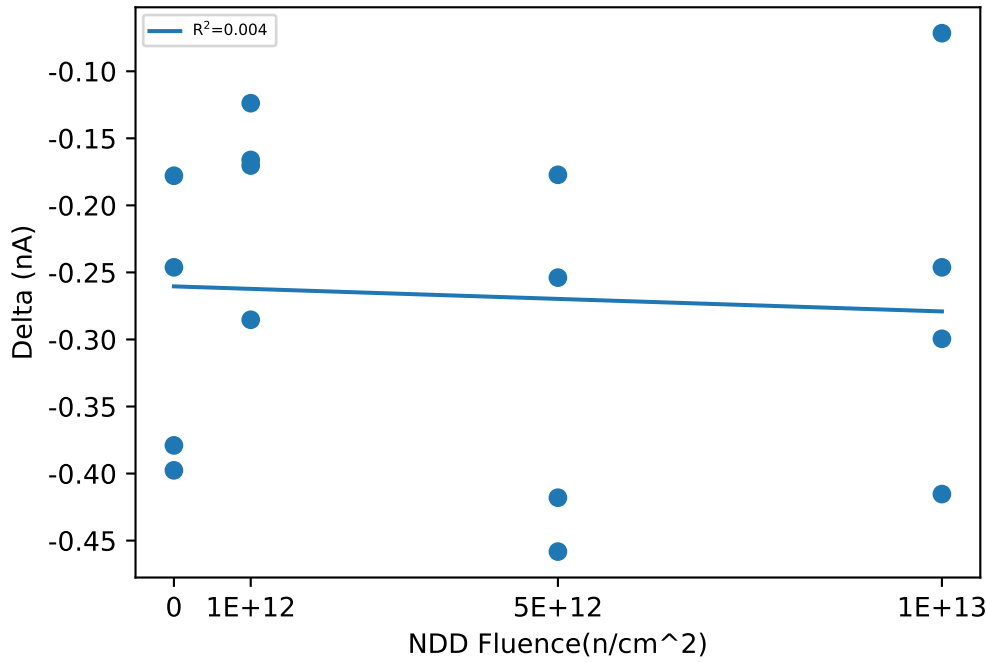
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.0123	-0.273	-0.2853
101	1e+12	NDD	-0.0006	-0.1667	-0.1661
102	1e+12	NDD	0.0861	-0.0842	-0.1703
103	1e+12	NDD	0.0389	-0.0849	-0.1238
104	5e+12	NDD	0.092	-0.326	-0.418
105	5e+12	NDD	0.056	-0.1979	-0.2539
106	5e+12	NDD	0.0274	-0.1498	-0.1772
107	5e+12	NDD	0.0924	-0.3658	-0.4582
108	1e+13	NDD	0.1017	-0.3136	-0.4153
109	1e+13	NDD	0.092	-0.1542	-0.2462
110	1e+13	NDD	-0.0157	-0.0873	-0.0716
111	1e+13	NDD	0.1178	-0.1817	-0.2995
732	0	CORRELATION	0.0061	-0.3729	-0.379
742	0	CORRELATION	0.1357	-0.1105	-0.2462
879	0	CORRELATION	0.0867	-0.0912	-0.1779
880	0	CORRELATION	0.1184	-0.2792	-0.3976

NDD vs Post - Pre Exposure Delta

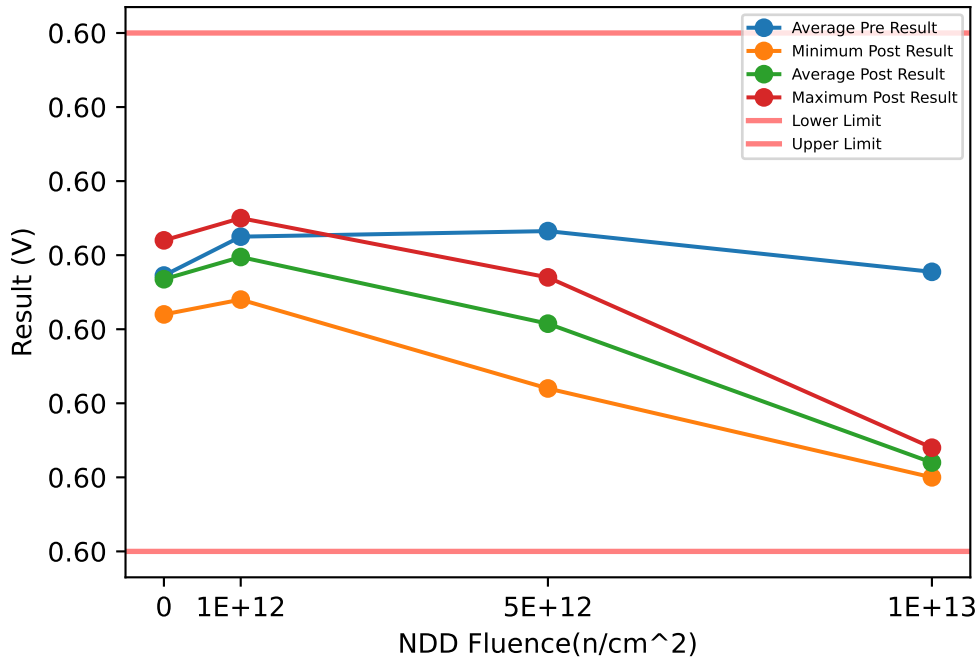


Test Statistics (nA)

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	0.0061	0.086725	0.1357	0.057452	-0.3729	-0.21345	-0.0912	0.13576	-0.3976	-0.30017	-0.1779	0.10578
1e+12	-0.0006	0.034175	0.0861	0.038325	-0.273	-0.1522	-0.0842	0.089361	-0.2853	-0.18638	-0.1238	0.069213
5e+12	0.0274	0.06695	0.0924	0.031408	-0.3658	-0.25987	-0.1498	0.10255	-0.4582	-0.32683	-0.1772	0.13326
1e+13	-0.0157	0.07395	0.1178	0.060706	-0.3136	-0.1842	-0.0873	0.094939	-0.4153	-0.25815	-0.0716	0.143

Device Test: 17.3 LEVEL|STATIC/SS_TR/4.5////@VREF_25C_PLST

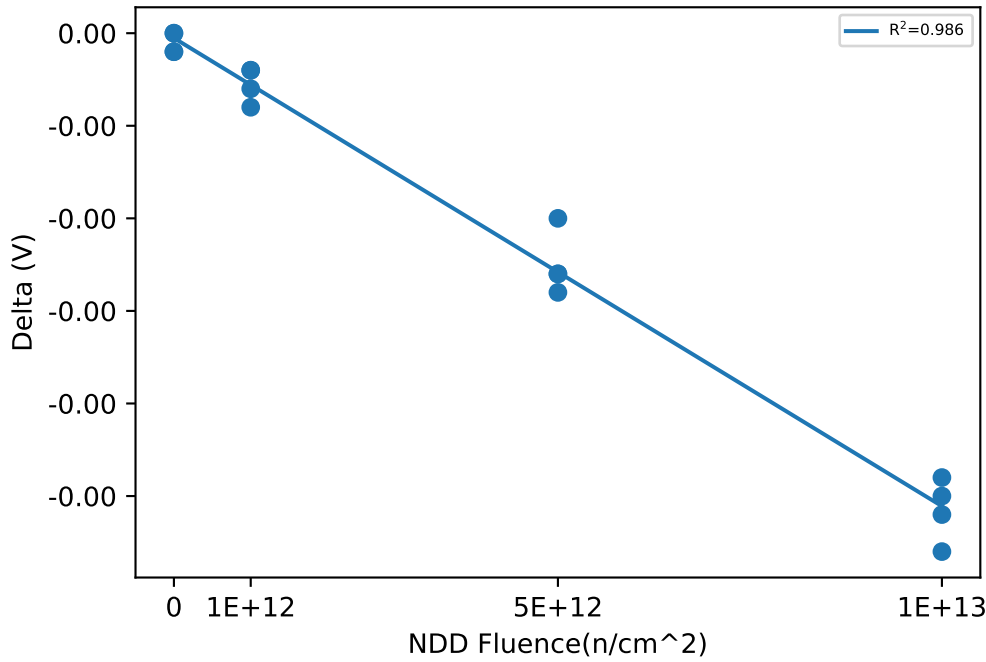
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6004	0.6002	-0.0002
101	1e+12	NDD	0.6	0.5998	-0.0002
102	1e+12	NDD	0.6008	0.6005	-0.0003
103	1e+12	NDD	0.5998	0.5994	-0.0004
104	5e+12	NDD	0.6007	0.5997	-0.001
105	5e+12	NDD	0.6004	0.5991	-0.0013
106	5e+12	NDD	0.5996	0.5982	-0.0014
107	5e+12	NDD	0.6006	0.5993	-0.0013
108	1e+13	NDD	0.5997	0.5972	-0.0025
109	1e+13	NDD	0.6	0.5974	-0.0026
110	1e+13	NDD	0.5996	0.5972	-0.0024
111	1e+13	NDD	0.5998	0.597	-0.0028
732	0	CORRELATION	0.5992	0.5992	0
742	0	CORRELATION	0.5994	0.5994	0
879	0	CORRELATION	0.6003	0.6002	-0.0001
880	0	CORRELATION	0.6	0.5999	-0.0001

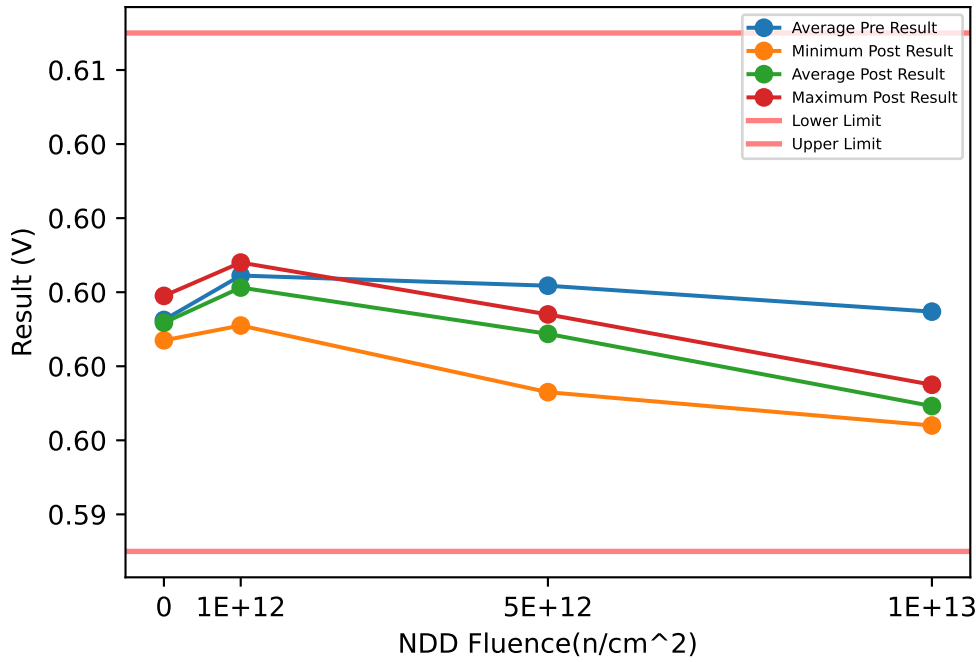
NDD vs Post - Pre Exposure Delta



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	0.5992	0.59972	0.6003	0.00051235	0.5992	0.59967	0.6002	0.00045735	-0.0001	-5e-05	0	5.7735e-05
1e+12	0.5998	0.60025	0.6008	0.00044347	0.5994	0.59998	0.6005	0.00047871	-0.0004	-0.000275	-0.0002	9.5743e-05
5e+12	0.5996	0.60032	0.6007	0.00049917	0.5982	0.59908	0.5997	0.00063443	-0.0014	-0.00125	-0.001	0.00017321
1e+13	0.5996	0.59977	0.6	0.00017078	0.597	0.5972	0.5974	0.0001633	-0.0028	-0.002575	-0.0024	0.00017078

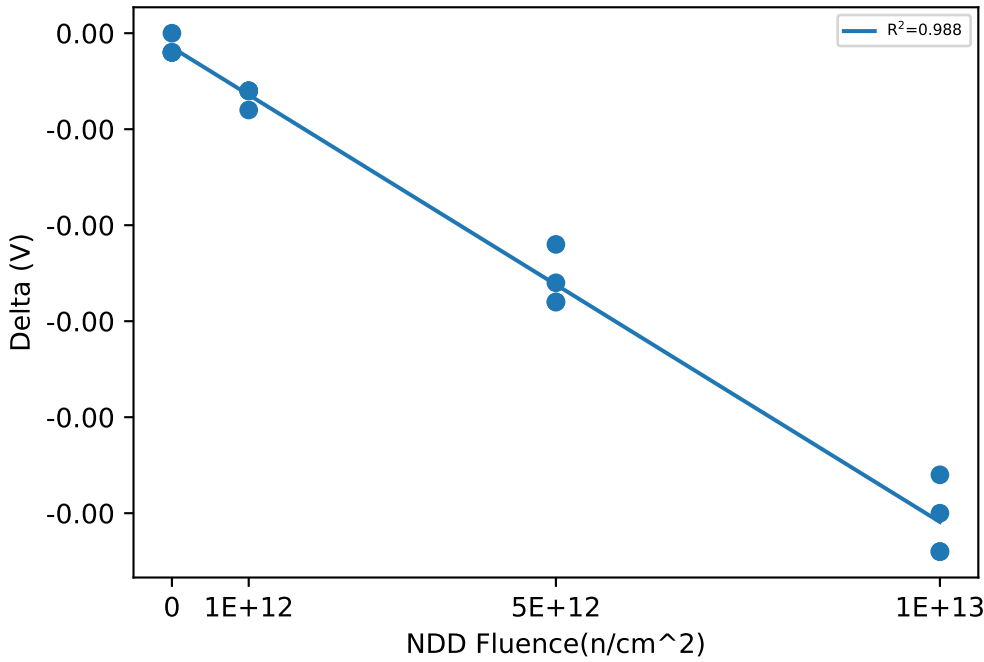
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6011	0.6008	-0.0003
101	1e+12	NDD	0.5994	0.5991	-0.0003
102	1e+12	NDD	0.601	0.6007	-0.0003
103	1e+12	NDD	0.6003	0.5999	-0.0004
104	5e+12	NDD	0.6005	0.5994	-0.0011
105	5e+12	NDD	0.6008	0.5994	-0.0014
106	5e+12	NDD	0.5987	0.5973	-0.0014
107	5e+12	NDD	0.6007	0.5994	-0.0013
108	1e+13	NDD	0.5989	0.5964	-0.0025
109	1e+13	NDD	0.6002	0.5975	-0.0027
110	1e+13	NDD	0.5992	0.5969	-0.0023
111	1e+13	NDD	0.5996	0.5969	-0.0027
732	0	CORRELATION	0.5988	0.5987	-0.0001
742	0	CORRELATION	0.5991	0.5991	0
879	0	CORRELATION	0.6	0.5999	-0.0001
880	0	CORRELATION	0.5991	0.599	-0.0001

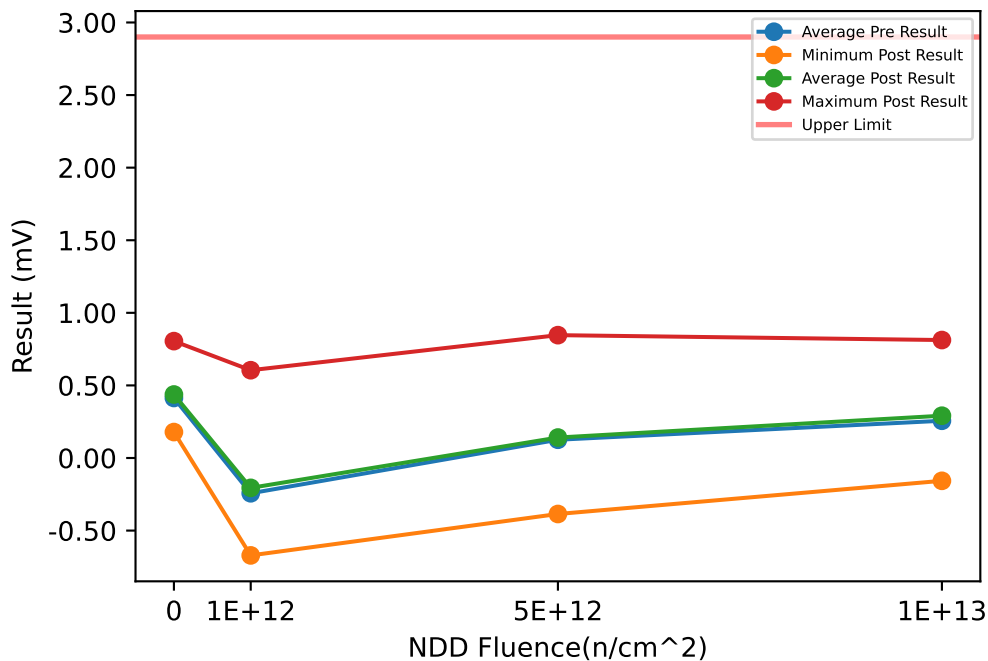
NDD vs Post - Pre Exposure Delta



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	0.5988	0.59925	0.6	0.00051962	0.5987	0.59918	0.5999	0.00051235	-0.0001	-7.5e-05	0	5e-05
1e+12	0.5994	0.60045	0.6011	0.00078528	0.5991	0.60013	0.6008	0.0007932	-0.0004	-0.000325	-0.0003	5e-05
5e+12	0.5987	0.60018	0.6008	0.00099121	0.5973	0.59888	0.5994	0.00105	-0.0014	-0.0013	-0.0011	0.00014142
1e+13	0.5989	0.59947	0.6002	0.00056199	0.5964	0.59693	0.5975	0.00045	-0.0027	-0.00255	-0.0023	0.00019149

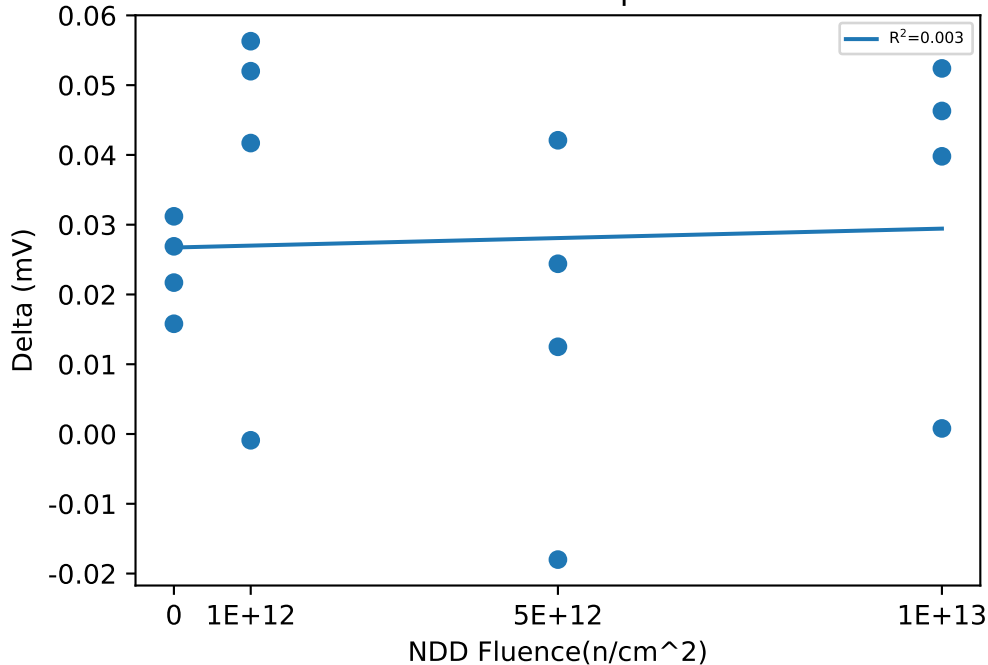
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	-0.7272	-0.6709	0.0563
101	1e+12	NDD	0.5527	0.6047	0.052
102	1e+12	NDD	-0.2774	-0.2357	0.0417
103	1e+12	NDD	-0.5201	-0.521	-0.0009
104	5e+12	NDD	0.1593	0.2014	0.0421
105	5e+12	NDD	-0.4101	-0.3857	0.0244
106	5e+12	NDD	0.8642	0.8462	-0.018
107	5e+12	NDD	-0.1105	-0.098	0.0125
108	1e+13	NDD	0.7663	0.8126	0.0463
109	1e+13	NDD	-0.197	-0.1572	0.0398
110	1e+13	NDD	0.3366	0.3374	0.0008
111	1e+13	NDD	0.12	0.1724	0.0524
732	0	CORRELATION	0.3804	0.4073	0.0269
742	0	CORRELATION	0.3428	0.3586	0.0158
879	0	CORRELATION	0.157	0.1787	0.0217
880	0	CORRELATION	0.7739	0.8051	0.0312

NDD vs Post - Pre Exposure Delta

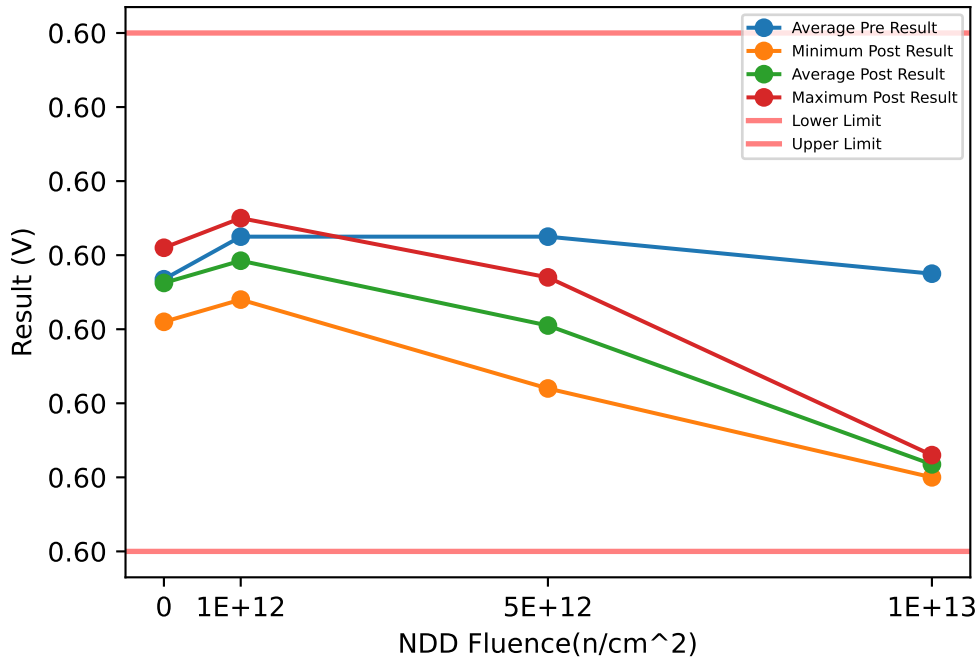


Test Statistics (mV)

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	0.157	0.41353	0.7739	0.25934	0.1787	0.43743	0.8051	0.2641	0.0158	0.0239	0.0312	0.0066518
1e+12	-0.7272	-0.243	0.5527	0.56141	-0.6709	-0.20573	0.6047	0.56964	-0.0009	0.037275	0.0563	0.026177
5e+12	-0.4101	0.12572	0.8642	0.54448	-0.3857	0.14097	0.8462	0.52773	-0.018	0.01525	0.0421	0.025284
1e+13	-0.197	0.25648	0.7663	0.4044	-0.1572	0.2913	0.8126	0.4038	0.0008	0.034825	0.0524	0.023259

Device Test: 17.39 LEVEL|STATIC/SS_TR/14////@VREF_25C_PLST

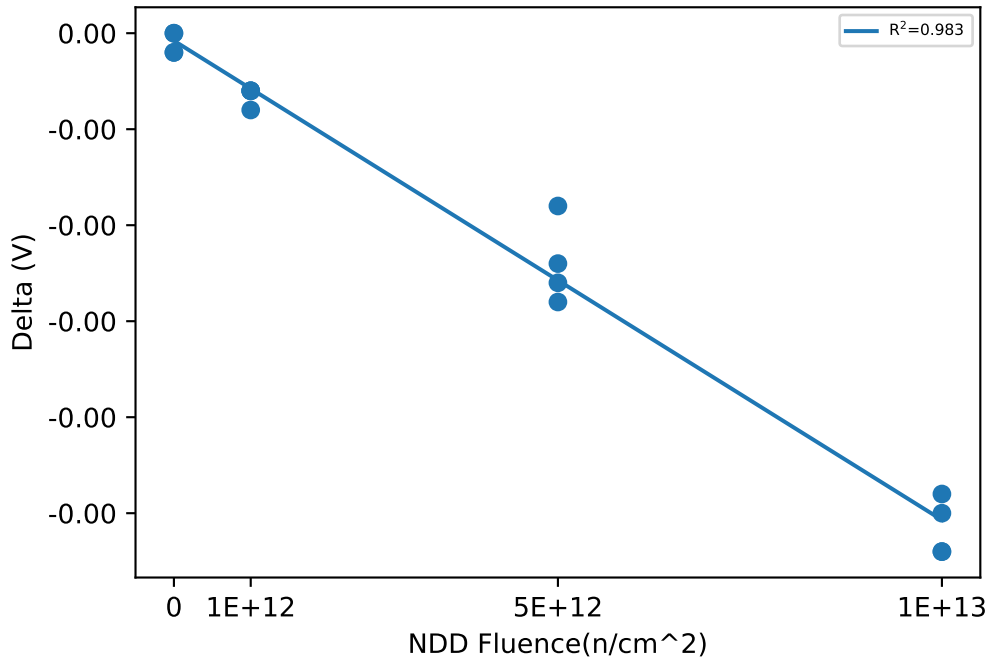
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6004	0.6001	-0.0003
101	1e+12	NDD	0.6	0.5997	-0.0003
102	1e+12	NDD	0.6008	0.6005	-0.0003
103	1e+12	NDD	0.5998	0.5994	-0.0004
104	5e+12	NDD	0.6006	0.5997	-0.0009
105	5e+12	NDD	0.6004	0.599	-0.0014
106	5e+12	NDD	0.5995	0.5982	-0.0013
107	5e+12	NDD	0.6005	0.5993	-0.0012
108	1e+13	NDD	0.5997	0.5972	-0.0025
109	1e+13	NDD	0.6	0.5973	-0.0027
110	1e+13	NDD	0.5996	0.5972	-0.0024
111	1e+13	NDD	0.5997	0.597	-0.0027
732	0	CORRELATION	0.5992	0.5991	-0.0001
742	0	CORRELATION	0.5994	0.5994	0
879	0	CORRELATION	0.6002	0.6001	-0.0001
880	0	CORRELATION	0.5999	0.5999	0

NDD vs Post - Pre Exposure Delta

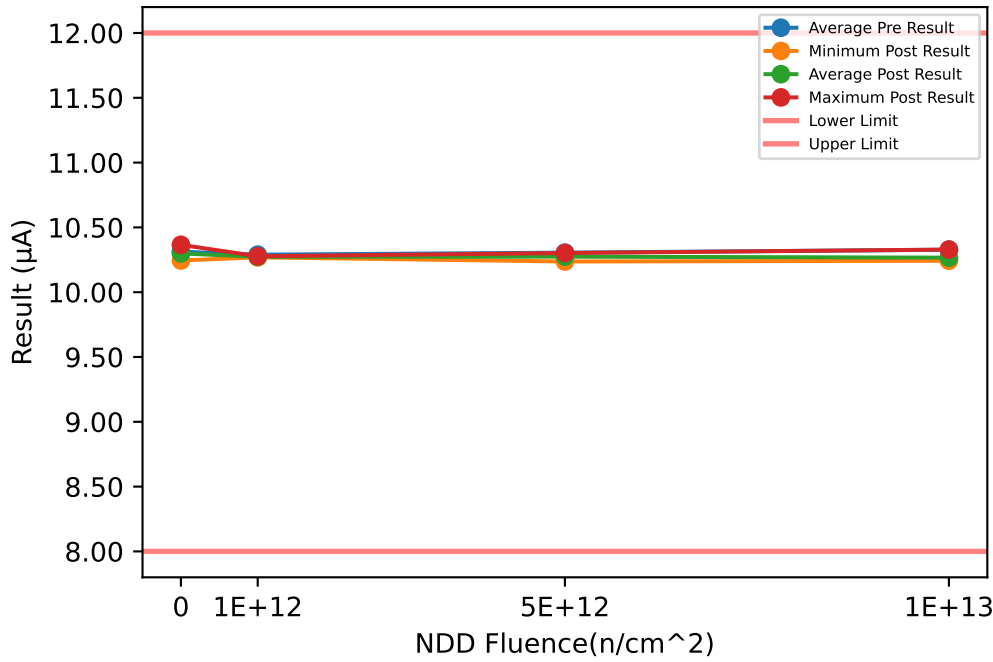


Test Statistics (V)

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	0.5992	0.59967	0.6002	0.00045735	0.5991	0.59962	0.6001	0.00045735	-0.0001	-5e-05	0	5.7735e-05
1e+12	0.5998	0.60025	0.6008	0.00044347	0.5994	0.59993	0.6005	0.00047871	-0.0004	-0.000325	-0.0003	5e-05
5e+12	0.5995	0.60025	0.6006	0.00050662	0.5982	0.59905	0.5997	0.00063509	-0.0014	-0.0012	-0.0009	0.00021602
1e+13	0.5996	0.59975	0.6	0.00017321	0.597	0.59718	0.5973	0.00012583	-0.0027	-0.002575	-0.0024	0.00015

Device Test: 17.4 IDD|POWERED/VSNSN/4.5////@VSNM_CURR

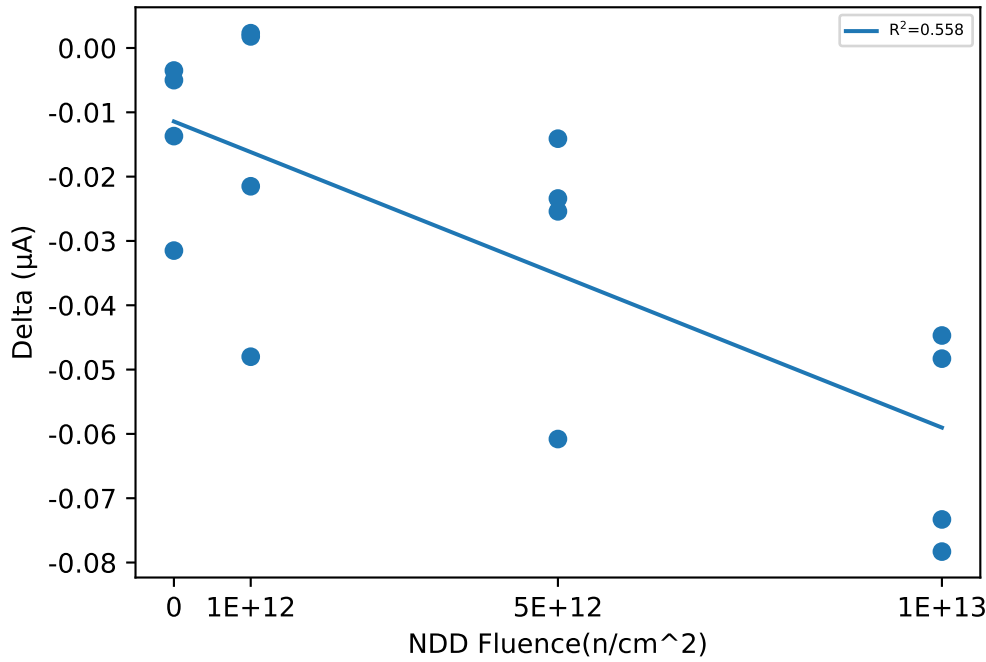
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	10.27	10.272	0.0018
101	1e+12	NDD	10.275	10.277	0.0023
102	1e+12	NDD	10.296	10.274	-0.0215
103	1e+12	NDD	10.317	10.269	-0.048
104	5e+12	NDD	10.316	10.302	-0.0141
105	5e+12	NDD	10.302	10.276	-0.0254
106	5e+12	NDD	10.26	10.237	-0.0234
107	5e+12	NDD	10.343	10.282	-0.0608
108	1e+13	NDD	10.287	10.242	-0.0447
109	1e+13	NDD	10.377	10.329	-0.0483
110	1e+13	NDD	10.318	10.244	-0.0733
111	1e+13	NDD	10.328	10.25	-0.0783
732	0	CORRELATION	10.248	10.245	-0.0035
742	0	CORRELATION	10.302	10.297	-0.005
879	0	CORRELATION	10.322	10.29	-0.0315
880	0	CORRELATION	10.38	10.366	-0.0137

NDD vs Post - Pre Exposure Delta

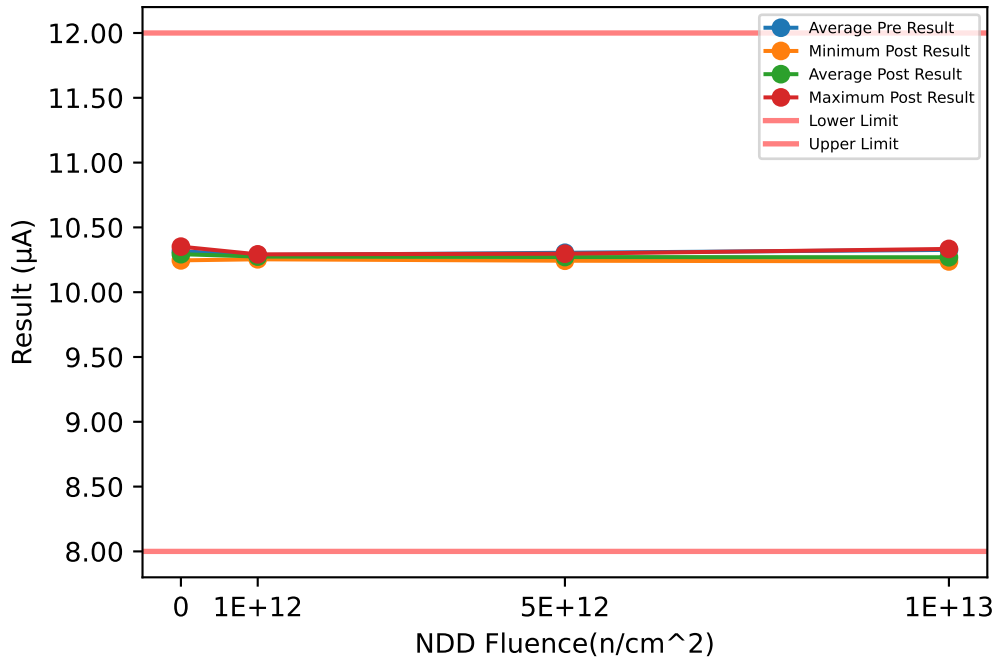


Test Statistics (µA)

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	10.248	10.313	10.38	0.054191	10.245	10.299	10.366	0.049981	-0.0315	-0.013425	-0.0035	0.012862
1e+12	10.27	10.289	10.317	0.021525	10.269	10.273	10.277	0.0033984	-0.048	-0.01635	0.0023	0.023843
5e+12	10.26	10.305	10.343	0.034448	10.237	10.274	10.302	0.027353	-0.0608	-0.030925	-0.0141	0.020516
1e+13	10.287	10.328	10.377	0.037429	10.242	10.266	10.329	0.041809	-0.0783	-0.06115	-0.0447	0.017102

Device Test: 17.40 IDD|POWERED/VSNSN/14////@VSNSM_CURR

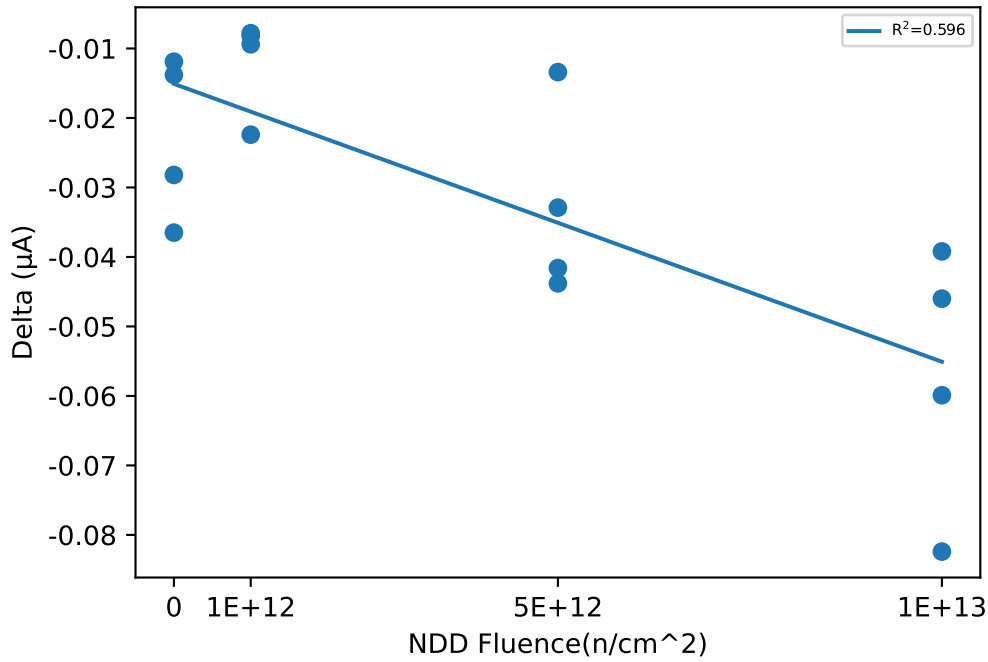
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	10.276	10.254	-0.0224
101	1e+12	NDD	10.277	10.268	-0.0082
102	1e+12	NDD	10.293	10.285	-0.0078
103	1e+12	NDD	10.301	10.292	-0.0094
104	5e+12	NDD	10.321	10.288	-0.0329
105	5e+12	NDD	10.299	10.258	-0.0416
106	5e+12	NDD	10.256	10.243	-0.0134
107	5e+12	NDD	10.341	10.297	-0.0438
108	1e+13	NDD	10.283	10.237	-0.046
109	1e+13	NDD	10.373	10.334	-0.0392
110	1e+13	NDD	10.312	10.253	-0.0599
111	1e+13	NDD	10.336	10.254	-0.0824
732	0	CORRELATION	10.259	10.246	-0.0138
742	0	CORRELATION	10.32	10.292	-0.0282
879	0	CORRELATION	10.296	10.284	-0.0119
880	0	CORRELATION	10.388	10.351	-0.0365

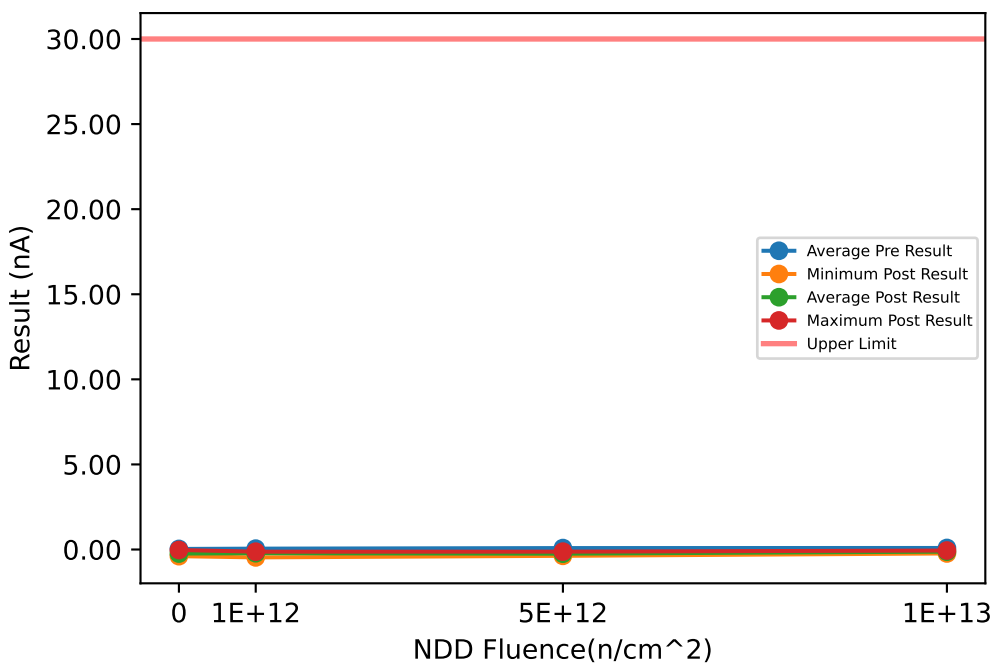
NDD vs Post - Pre Exposure Delta



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	10.259	10.316	10.388	0.054186	10.246	10.293	10.351	0.043783	-0.0365	-0.0226	-0.0119	0.011783
1e+12	10.276	10.287	10.301	0.012383	10.254	10.275	10.292	0.017074	-0.0224	-0.01195	-0.0078	0.0069998
5e+12	10.256	10.304	10.341	0.03628	10.243	10.271	10.297	0.025411	-0.0438	-0.032925	-0.0134	0.013841
1e+13	10.283	10.326	10.373	0.038011	10.237	10.27	10.334	0.04364	-0.0824	-0.056875	-0.0392	0.019073

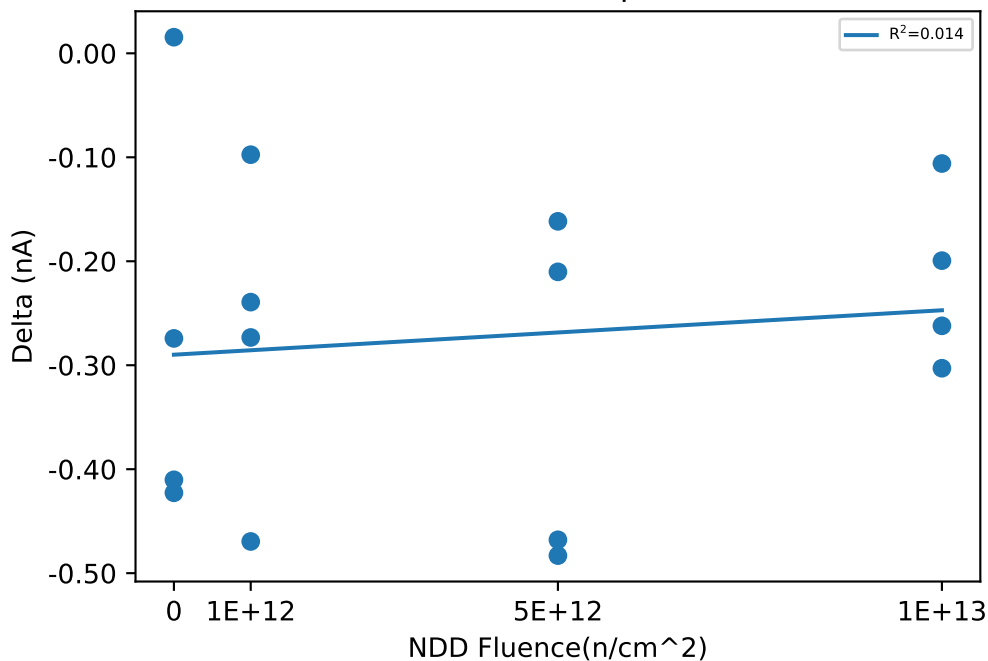
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.0061	-0.4634	-0.4695
101	1e+12	NDD	-0.0411	-0.1386	-0.0975
102	1e+12	NDD	0.1298	-0.1435	-0.2733
103	1e+12	NDD	0.1107	-0.1286	-0.2393
104	5e+12	NDD	0.1263	-0.3416	-0.4679
105	5e+12	NDD	0.0841	-0.1261	-0.2102
106	5e+12	NDD	0.0181	-0.1435	-0.1616
107	5e+12	NDD	0.1111	-0.372	-0.4831
108	1e+13	NDD	0.0705	-0.2324	-0.3029
109	1e+13	NDD	0.1201	-0.0793	-0.1994
110	1e+13	NDD	0.0467	-0.0593	-0.106
111	1e+13	NDD	0.1272	-0.1349	-0.2621
732	0	CORRELATION	0.0311	-0.3916	-0.4227
742	0	CORRELATION	0.0857	-0.1885	-0.2742
879	0	CORRELATION	-0.0443	-0.0288	0.0155
880	0	CORRELATION	0.0654	-0.3448	-0.4102

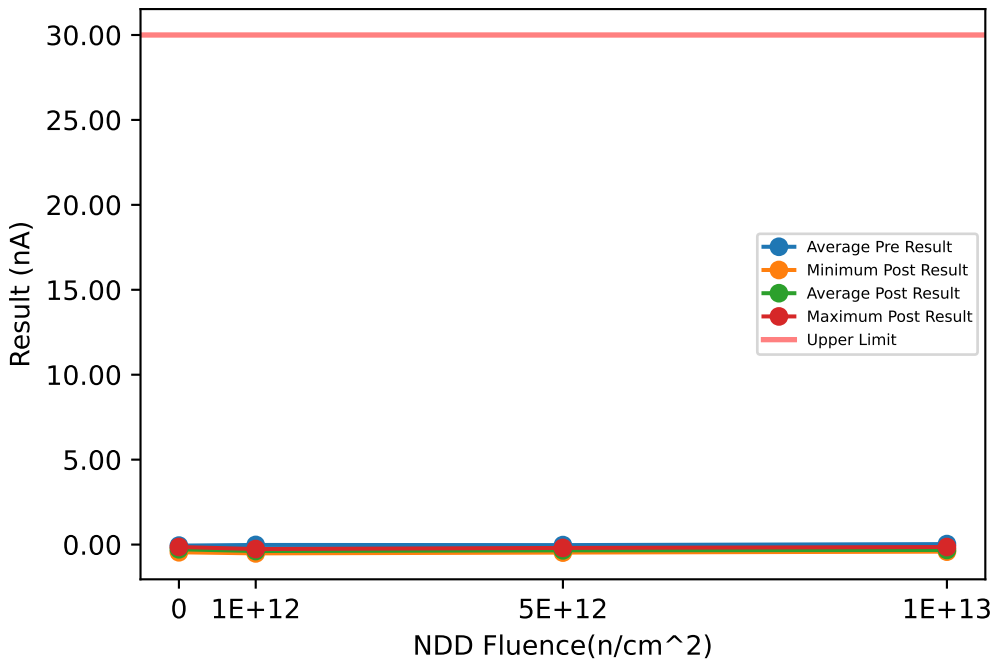
NDD vs Post - Pre Exposure Delta



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	-0.0443	0.034475	0.0857	0.057147	-0.3916	-0.23842	-0.0288	0.16453	-0.4227	-0.2729	0.0155	0.20369
1e+12	-0.0411	0.051375	0.1298	0.082202	-0.4634	-0.21852	-0.1286	0.16337	-0.4695	-0.2699	-0.0975	0.15331
5e+12	0.0181	0.0849	0.1263	0.047831	-0.372	-0.2458	-0.1261	0.12897	-0.4831	-0.3307	-0.1616	0.16849
1e+13	0.0467	0.091125	0.1272	0.038901	-0.2324	-0.12648	-0.0593	0.077522	-0.3029	-0.2176	-0.106	0.085717

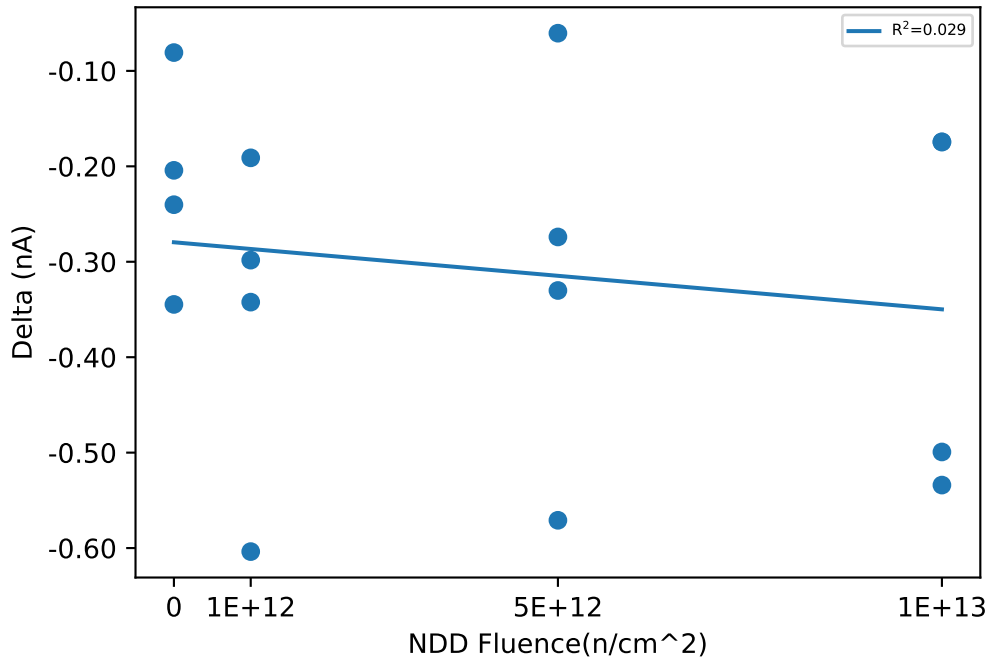
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.0841	-0.5196	-0.6037
101	1e+12	NDD	-0.0723	-0.2634	-0.1911
102	1e+12	NDD	-0.045	-0.3433	-0.2983
103	1e+12	NDD	-0.0516	-0.3939	-0.3423
104	5e+12	NDD	0.0982	-0.4727	-0.5709
105	5e+12	NDD	-0.1374	-0.1979	-0.0605
106	5e+12	NDD	-0.0256	-0.3557	-0.3301
107	5e+12	NDD	-0.0575	-0.3315	-0.274
108	1e+13	NDD	0.1174	-0.4166	-0.534
109	1e+13	NDD	0.0295	-0.1448	-0.1743
110	1e+13	NDD	-0.1374	-0.312	-0.1746
111	1e+13	NDD	0.1054	-0.3939	-0.4993
732	0	CORRELATION	-0.1499	-0.3541	-0.2042
742	0	CORRELATION	-0.0797	-0.1605	-0.0808
879	0	CORRELATION	0.0991	-0.1411	-0.2402
880	0	CORRELATION	-0.1093	-0.454	-0.3447

NDD vs Post - Pre Exposure Delta

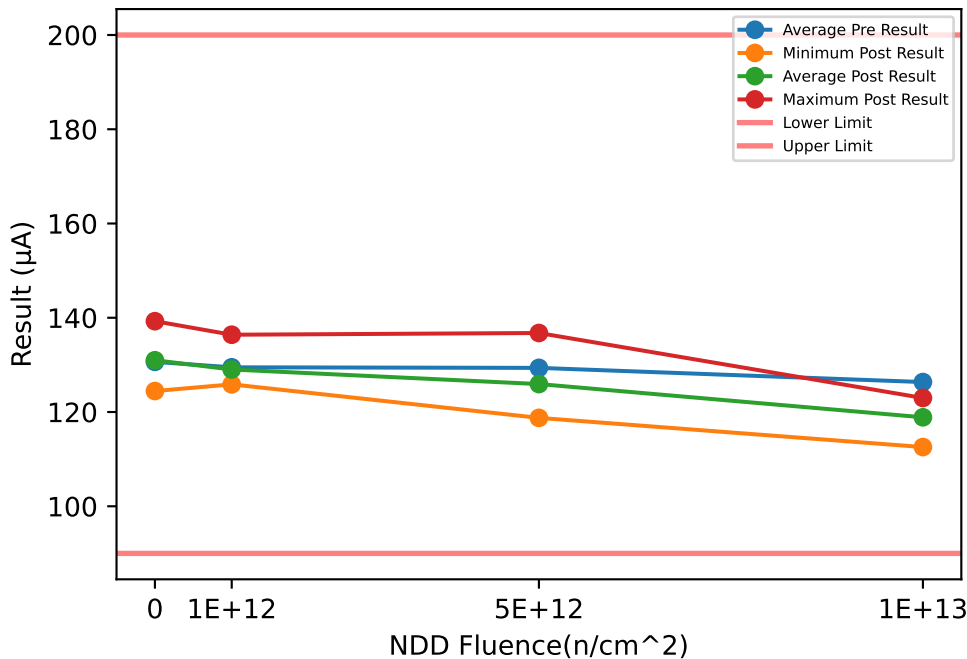


Test Statistics (nA)

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	-0.1499	-0.05995	0.0991	0.10987	-0.454	-0.27743	-0.1411	0.152	-0.3447	-0.21748	-0.0808	0.10887
1e+12	-0.0723	-0.0212	0.0841	0.071157	-0.5196	-0.38005	-0.2634	0.10743	-0.6037	-0.35885	-0.1911	0.17515
5e+12	-0.1374	-0.030575	0.0982	0.097885	-0.4727	-0.33945	-0.1979	0.11272	-0.5709	-0.30888	-0.0605	0.20977
1e+13	-0.1374	0.028725	0.1174	0.11739	-0.4166	-0.31683	-0.1448	0.12317	-0.534	-0.34555	-0.1743	0.19808

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

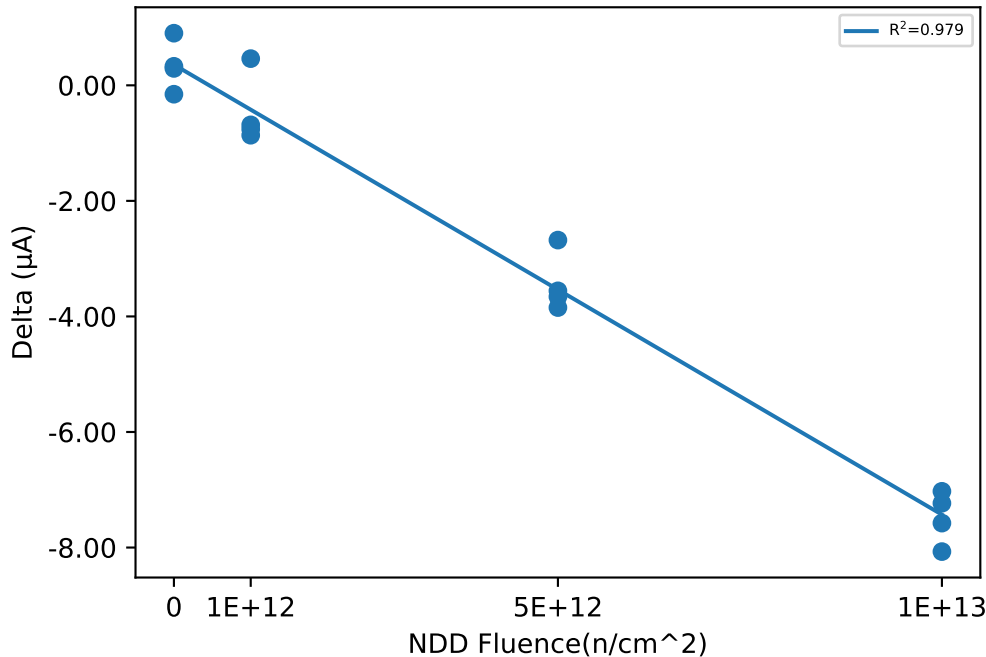
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	127.61	126.85	-0.7586
101	1e+12	NDD	137.08	136.4	-0.6845
102	1e+12	NDD	126.51	126.98	0.4621
103	1e+12	NDD	126.73	125.87	-0.8637
104	5e+12	NDD	127.43	123.87	-3.5571
105	5e+12	NDD	128.17	124.33	-3.8464
106	5e+12	NDD	122.42	118.76	-3.6581
107	5e+12	NDD	139.44	136.77	-2.6786
108	1e+13	NDD	125.31	117.73	-7.5772
109	1e+13	NDD	119.8	112.56	-7.2329
110	1e+13	NDD	130.31	122.24	-8.0702
111	1e+13	NDD	130.01	122.98	-7.0268
732	0	CORRELATION	124.16	124.45	0.2927
742	0	CORRELATION	127.56	127.4	-0.1539
879	0	CORRELATION	132.48	132.81	0.3293
880	0	CORRELATION	138.37	139.27	0.9022

NDD vs Post - Pre Exposure Delta

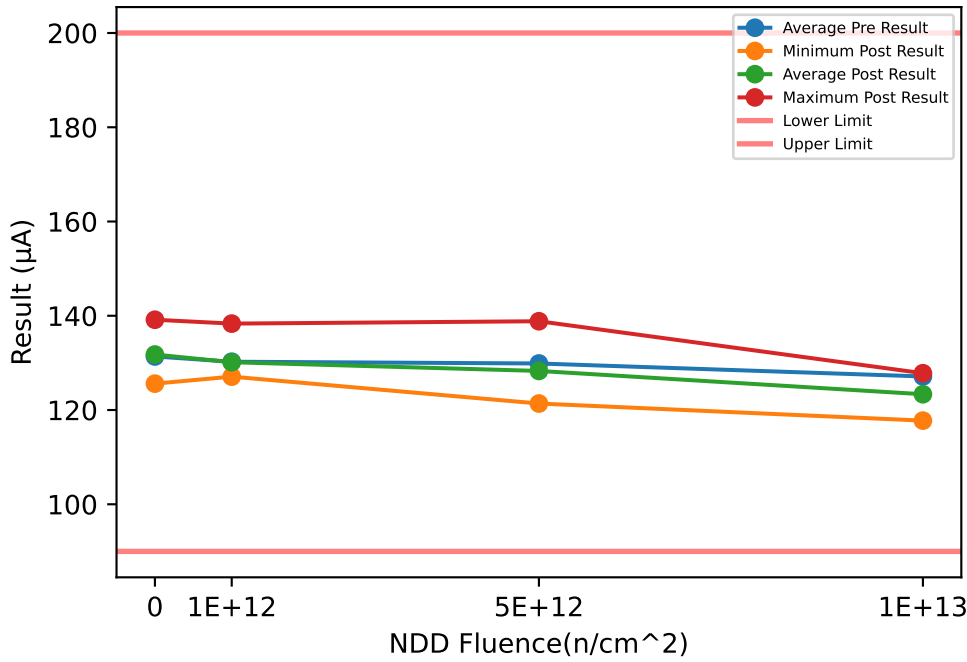


Test Statistics (µA)

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	124.16	130.64	138.37	6.1816	124.45	130.98	139.27	6.5194	-0.1539	0.34258	0.9022	0.43295
1e+12	126.51	129.48	137.08	5.0887	125.87	129.02	136.4	4.9427	-0.8637	-0.46117	0.4621	0.61989
5e+12	122.42	129.37	139.44	7.1895	118.76	125.93	136.77	7.6523	-3.8464	-3.4351	-2.6786	0.51835
1e+13	119.8	126.36	130.31	4.936	112.56	118.88	122.98	4.8068	-8.0702	-7.4768	-7.0268	0.45614

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

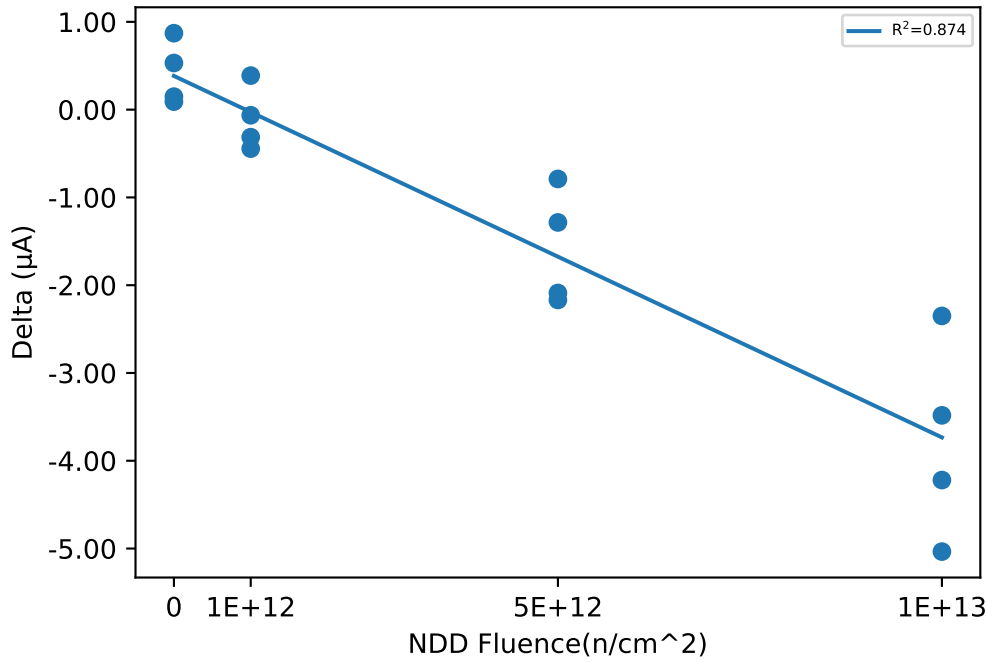
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	128.15	127.7	-0.444
101	1e+12	NDD	137.95	138.34	0.3879
102	1e+12	NDD	127.39	127.08	-0.3136
103	1e+12	NDD	127.5	127.44	-0.064
104	5e+12	NDD	126.8	124.71	-2.0887
105	5e+12	NDD	129.04	128.25	-0.7896
106	5e+12	NDD	123.54	121.38	-2.1681
107	5e+12	NDD	140.12	138.84	-1.2851
108	1e+13	NDD	125.96	120.92	-5.0349
109	1e+13	NDD	120.1	117.75	-2.3503
110	1e+13	NDD	131.13	126.91	-4.2199
111	1e+13	NDD	131.29	127.81	-3.4826
732	0	CORRELATION	125.51	125.6	0.0913
742	0	CORRELATION	128.47	129.34	0.8709
879	0	CORRELATION	132.86	133	0.1482
880	0	CORRELATION	138.62	139.16	0.5315

NDD vs Post - Pre Exposure Delta

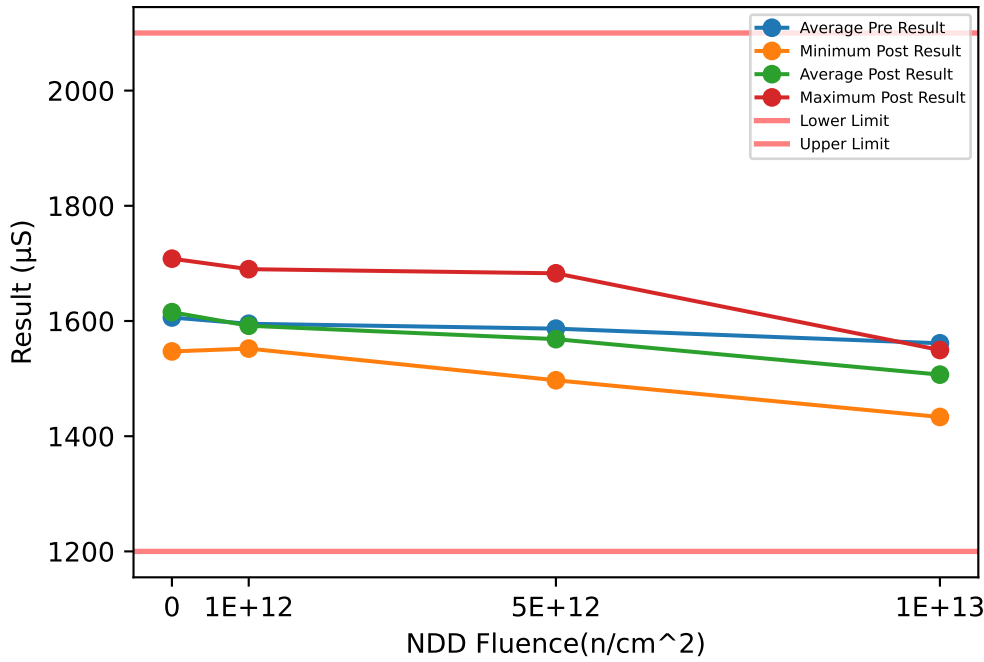


Test Statistics (µA)

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	125.51	131.36	138.62	5.7048	125.6	131.77	139.16	5.7758	0.0913	0.41047	0.8709	0.36391
1e+12	127.39	130.25	137.95	5.145	127.08	130.14	138.34	5.4711	-0.444	-0.10843	0.3879	0.36652
5e+12	123.54	129.88	140.12	7.1934	121.38	128.29	138.84	7.5684	-2.1681	-1.5829	-0.7896	0.6624
1e+13	120.1	127.12	131.29	5.2952	117.75	123.35	127.81	4.8242	-5.0349	-3.7719	-2.3503	1.1403

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

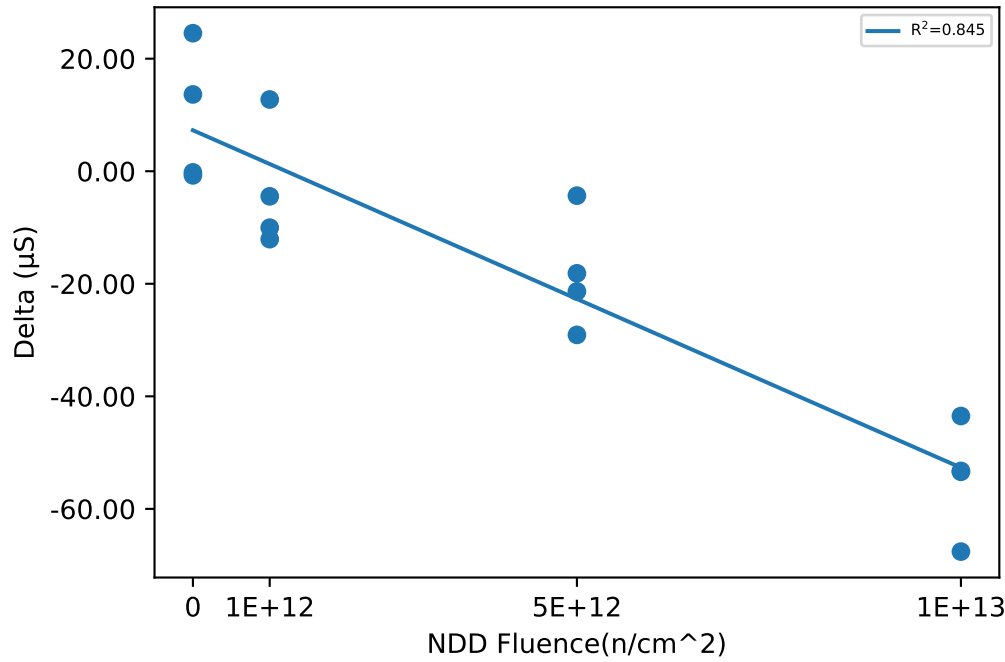
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1560.8	1556.4	-4.4596
101	1e+12	NDD	1677.2	1690	12.747
102	1e+12	NDD	1562.1	1552.1	-10.03
103	1e+12	NDD	1580.6	1568.5	-12.073
104	5e+12	NDD	1557.2	1528.1	-29.083
105	5e+12	NDD	1584.1	1566	-18.142
106	5e+12	NDD	1518.4	1497.1	-21.354
107	5e+12	NDD	1687.1	1682.8	-4.3406
108	1e+13	NDD	1548.8	1495.5	-53.258
109	1e+13	NDD	1476.8	1433.3	-43.498
110	1e+13	NDD	1603.1	1549.7	-53.408
111	1e+13	NDD	1616.5	1548.9	-67.591
732	0	CORRELATION	1547.9	1547.2	-0.7352
742	0	CORRELATION	1558	1582.6	24.529
879	0	CORRELATION	1623.6	1623.4	-0.2043
880	0	CORRELATION	1694.6	1708.2	13.648

NDD vs Post - Pre Exposure Delta

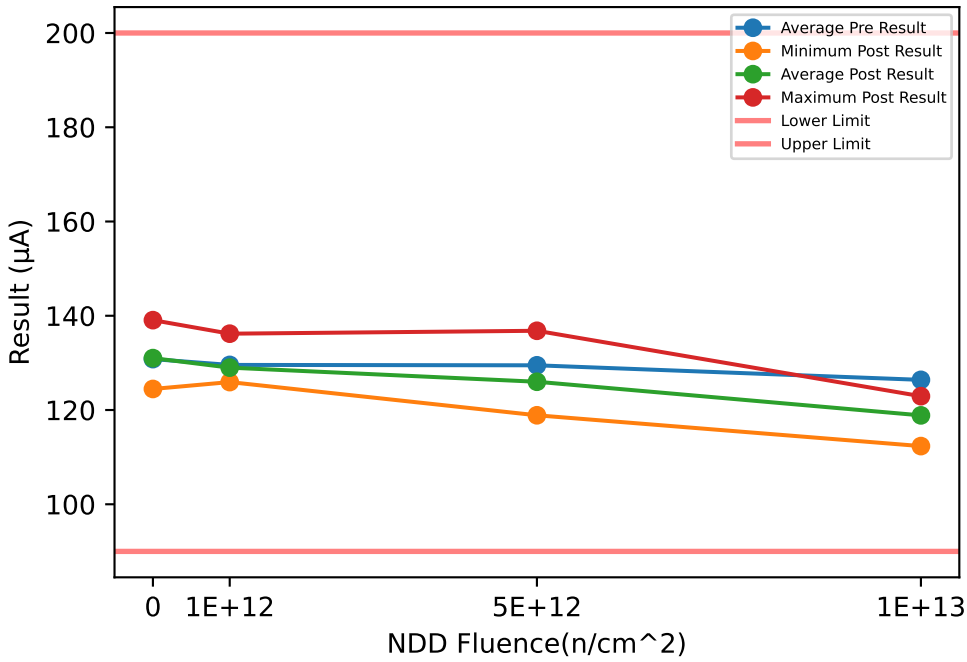


Test Statistics (µS)

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	1547.9	1606	1694.6	67.889	1547.2	1615.3	1708.2	69.303	-0.7352	9.3093	24.529	12.136
1e+12	1560.8	1595.2	1677.2	55.43	1552.1	1591.7	1690	65.859	-12.073	-3.4537	12.747	11.27
5e+12	1518.4	1586.7	1687.1	72.175	1497.1	1568.5	1682.8	81.25	-29.083	-18.23	-4.3406	10.336
1e+13	1476.8	1561.3	1616.5	63.457	1433.3	1506.9	1549.7	55.172	-67.591	-54.439	-43.498	9.9187

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

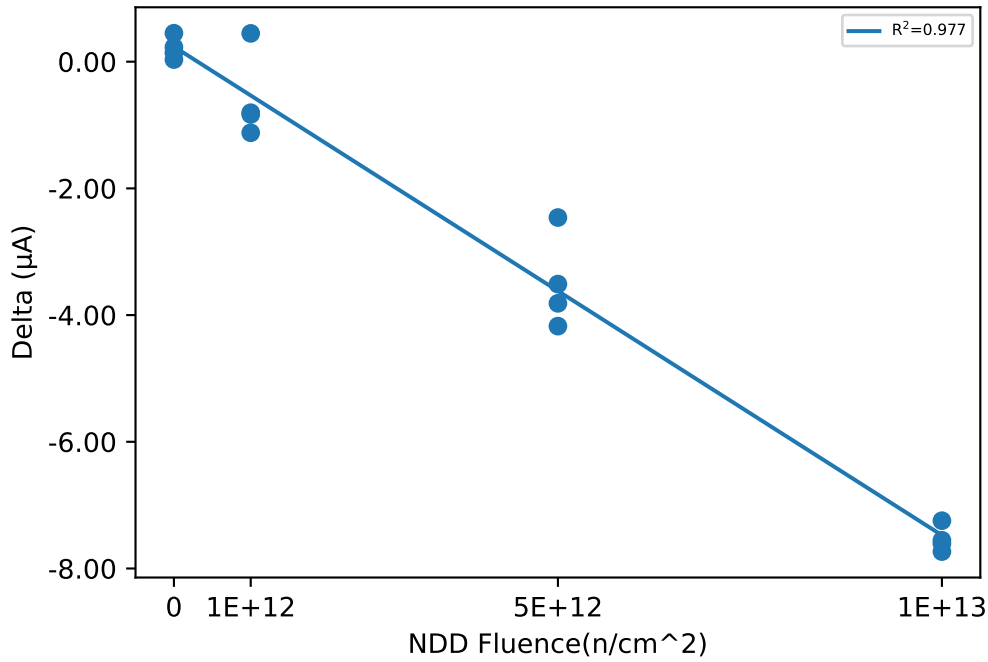
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	127.61	126.8	-0.8053
101	1e+12	NDD	137.32	136.2	-1.1219
102	1e+12	NDD	126.59	127.04	0.4465
103	1e+12	NDD	126.76	125.93	-0.8326
104	5e+12	NDD	127.57	124.06	-3.5106
105	5e+12	NDD	128.41	124.23	-4.1743
106	5e+12	NDD	122.7	118.88	-3.8143
107	5e+12	NDD	139.27	136.81	-2.4601
108	1e+13	NDD	125.42	117.69	-7.7333
109	1e+13	NDD	119.95	112.35	-7.6077
110	1e+13	NDD	130.05	122.49	-7.5547
111	1e+13	NDD	130.18	122.93	-7.2455
732	0	CORRELATION	124.24	124.47	0.2303
742	0	CORRELATION	127.45	127.48	0.0335
879	0	CORRELATION	132.9	133.04	0.1415
880	0	CORRELATION	138.62	139.07	0.4497

NDD vs Post - Pre Exposure Delta

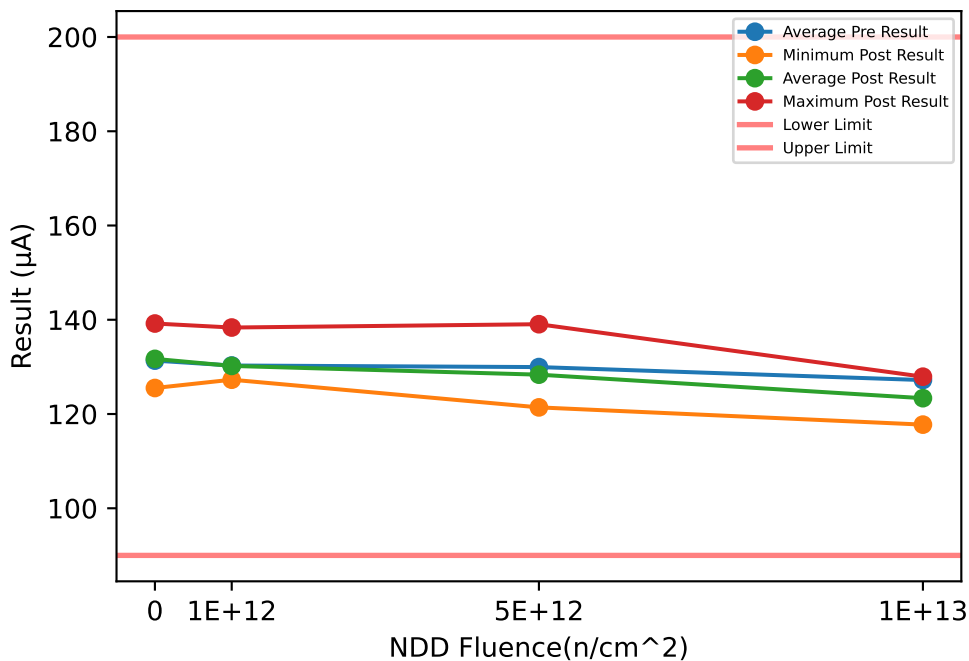


Test Statistics (µA)

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	124.24	130.8	138.62	6.321	124.47	131.01	139.07	6.4378	0.0335	0.21375	0.4497	0.17669
1e+12	126.59	129.57	137.32	5.1847	125.93	128.99	136.2	4.8269	-1.1219	-0.57833	0.4465	0.69807
5e+12	122.7	129.49	139.27	6.9932	118.88	126	136.81	7.626	-4.1743	-3.4898	-2.4601	0.73814
1e+13	119.95	126.4	130.18	4.8339	112.35	118.86	122.93	4.953	-7.7333	-7.5353	-7.2455	0.20721

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

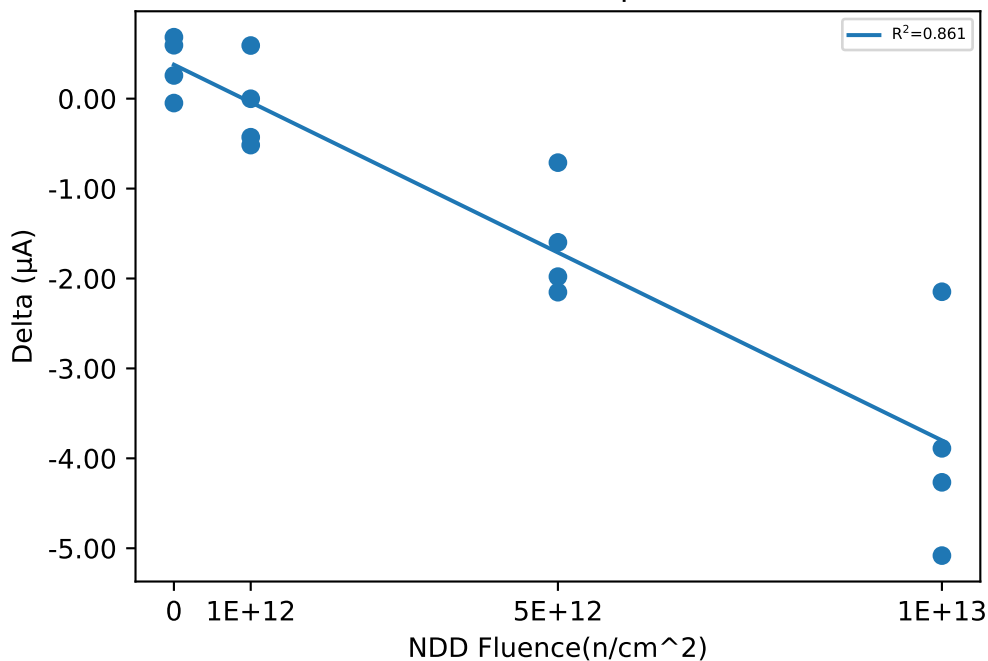
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	128.33	127.9	-0.4289
101	1e+12	NDD	137.76	138.35	0.5909
102	1e+12	NDD	127.28	127.28	-0.0011
103	1e+12	NDD	127.8	127.28	-0.5165
104	5e+12	NDD	126.7	124.72	-1.9794
105	5e+12	NDD	128.93	128.22	-0.7115
106	5e+12	NDD	123.56	121.41	-2.1525
107	5e+12	NDD	140.65	139.05	-1.5977
108	1e+13	NDD	125.99	120.91	-5.0817
109	1e+13	NDD	119.9	117.75	-2.1474
110	1e+13	NDD	131.13	126.86	-4.2668
111	1e+13	NDD	131.81	127.92	-3.8889
732	0	CORRELATION	125.57	125.52	-0.049
742	0	CORRELATION	128.56	129.25	0.6835
879	0	CORRELATION	132.57	132.83	0.2579
880	0	CORRELATION	138.61	139.2	0.5939

NDD vs Post - Pre Exposure Delta

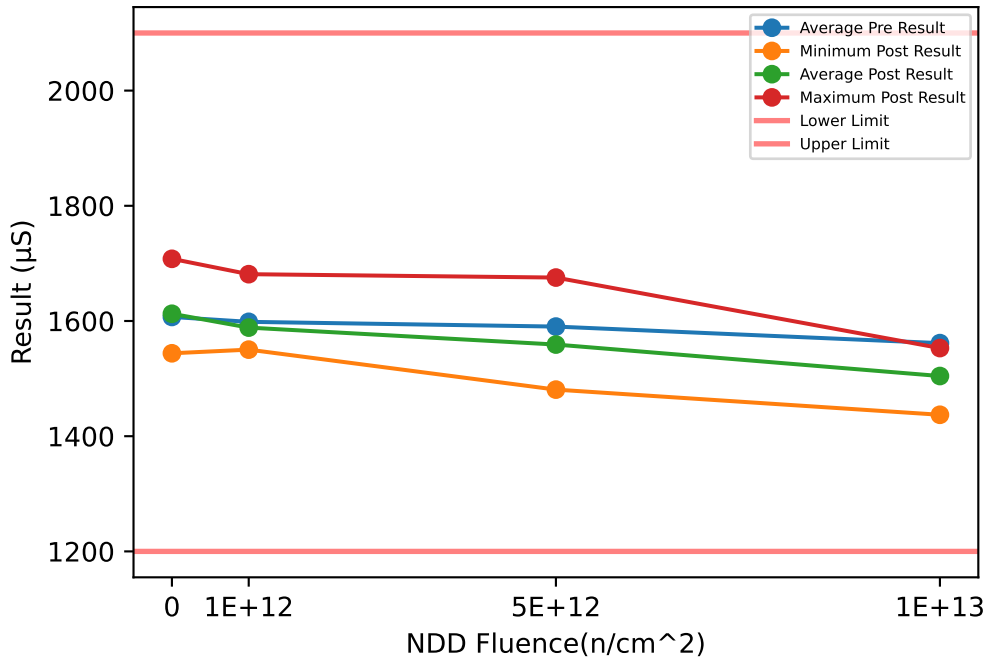


Test Statistics (µA)

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	125.57	131.33	138.61	5.6386	125.52	131.7	139.2	5.825	-0.049	0.37158	0.6835	0.33493
1e+12	127.28	130.29	137.76	4.9965	127.28	130.21	138.35	5.4393	-0.5165	-0.0889	0.5909	0.50606
5e+12	123.56	129.96	140.65	7.4598	121.41	128.35	139.05	7.6581	-2.1525	-1.6103	-0.7115	0.64245
1e+13	119.9	127.21	131.81	5.522	117.75	123.36	127.92	4.8494	-5.0817	-3.8462	-2.1474	1.2371

Device Test: 18.21 EA|STATIC/COMP/14/////@EA_GM

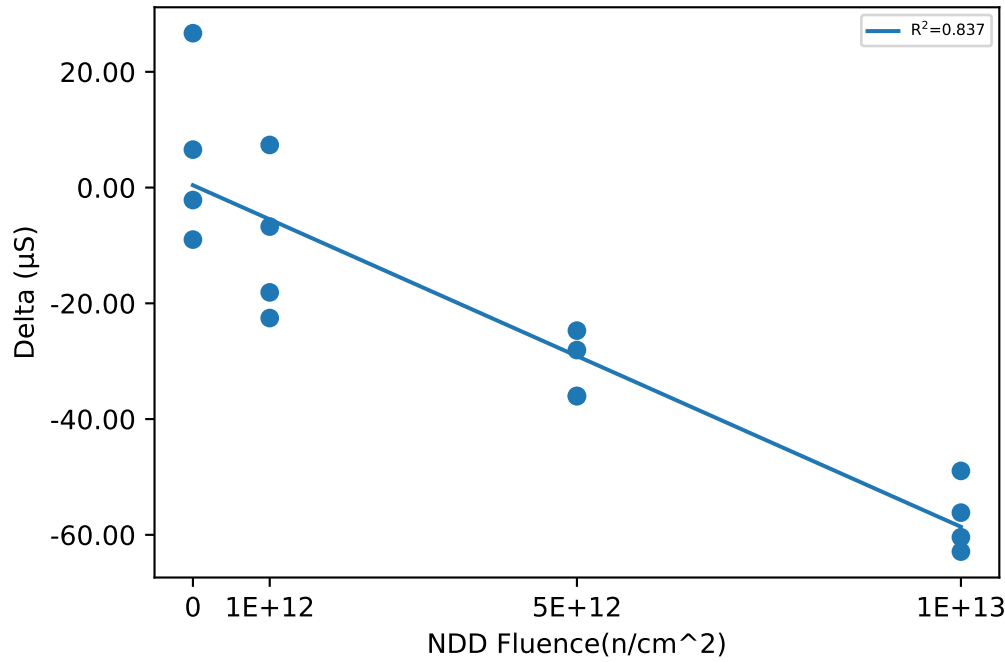
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1567.3	1560.5	-6.7421
101	1e+12	NDD	1673.9	1681.3	7.364
102	1e+12	NDD	1568.4	1550.3	-18.108
103	1e+12	NDD	1584.6	1562.1	-22.544
104	5e+12	NDD	1556.8	1532.1	-24.716
105	5e+12	NDD	1584.1	1548.1	-36.045
106	5e+12	NDD	1516.9	1480.9	-36.003
107	5e+12	NDD	1703.5	1675.4	-28.077
108	1e+13	NDD	1544.3	1488.2	-56.164
109	1e+13	NDD	1486.1	1437.2	-48.957
110	1e+13	NDD	1602.4	1539.5	-62.897
111	1e+13	NDD	1613.4	1553	-60.419
732	0	CORRELATION	1546.1	1543.9	-2.1555
742	0	CORRELATION	1566.3	1572.9	6.5565
879	0	CORRELATION	1634.4	1625.5	-8.9865
880	0	CORRELATION	1681.3	1707.9	26.675

NDD vs Post - Pre Exposure Delta

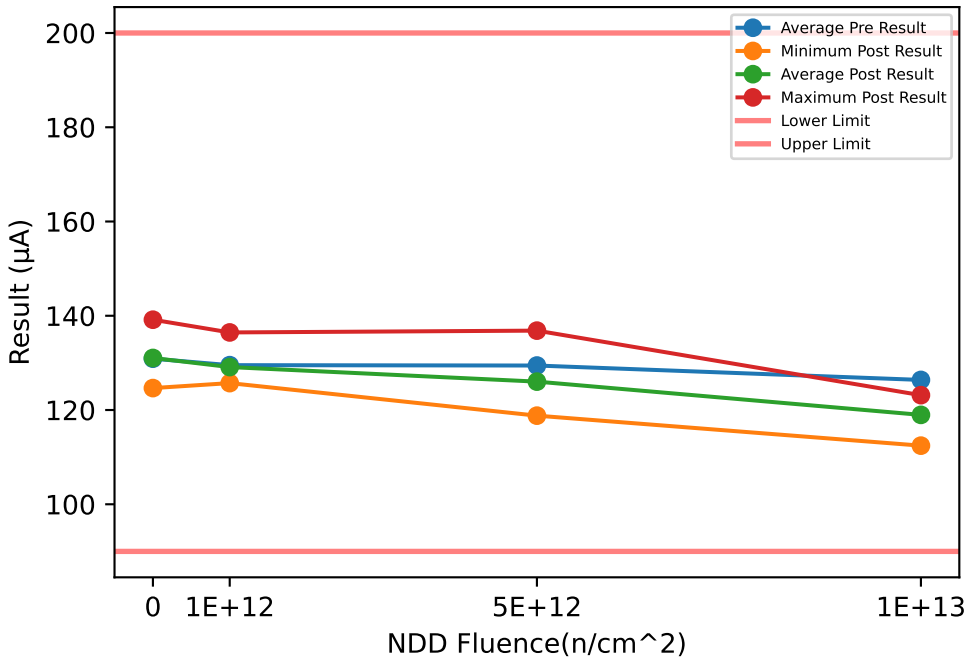


Test Statistics (µS)

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	1546.1	1607	1681.3	62.276	1543.9	1612.6	1707.9	71.994	-8.9865	5.5223	26.675	15.47
1e+12	1567.3	1598.5	1673.9	50.863	1550.3	1588.5	1681.3	62.042	-22.544	-10.008	7.364	13.357
5e+12	1516.9	1590.3	1703.5	80.341	1480.9	1559.1	1675.4	82.665	-36.045	-31.21	-24.716	5.7253
1e+13	1486.1	1561.6	1613.4	58.714	1437.2	1504.5	1553	52.838	-62.897	-57.109	-48.957	6.105

Device Test: 18.22 ERROR_AMP|STATIC/COMP/14////@EA_SOURCE

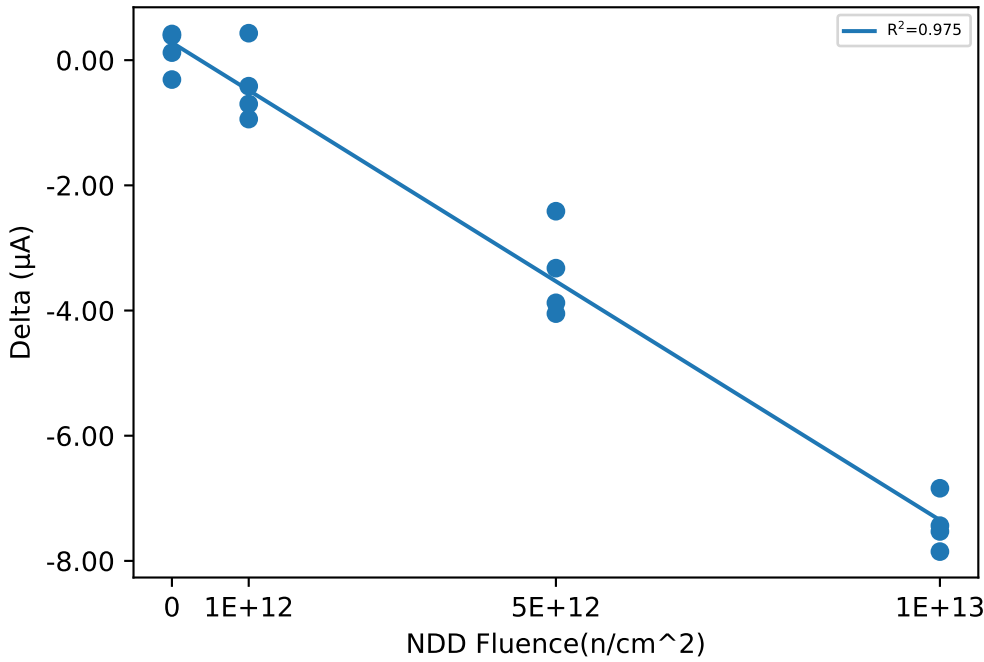
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	127.61	127.19	-0.4157
101	1e+12	NDD	137.16	136.46	-0.7001
102	1e+12	NDD	126.66	127.09	0.4308
103	1e+12	NDD	126.65	125.71	-0.9416
104	5e+12	NDD	127.37	124.05	-3.3231
105	5e+12	NDD	128.45	124.4	-4.0494
106	5e+12	NDD	122.68	118.8	-3.8768
107	5e+12	NDD	139.26	136.84	-2.4133
108	1e+13	NDD	125.33	117.89	-7.437
109	1e+13	NDD	119.97	112.44	-7.5296
110	1e+13	NDD	130.25	122.4	-7.8514
111	1e+13	NDD	129.99	123.15	-6.8397
732	0	CORRELATION	124.53	124.65	0.1205
742	0	CORRELATION	127.71	127.4	-0.31
879	0	CORRELATION	132.57	132.96	0.3916
880	0	CORRELATION	138.74	139.16	0.4183

NDD vs Post - Pre Exposure Delta

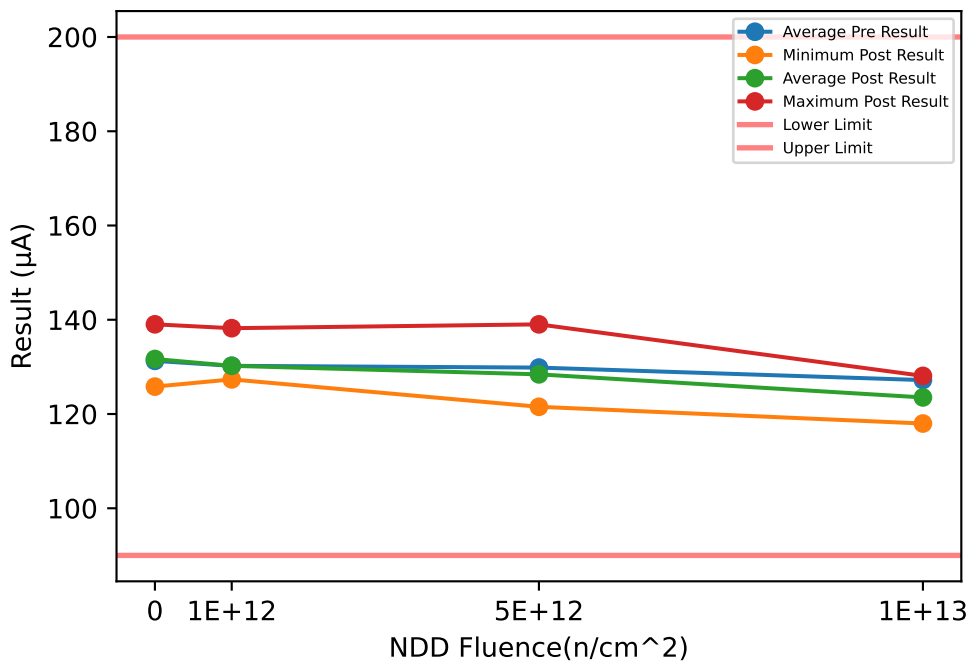


Test Statistics (µA)

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	124.53	130.89	138.74	6.1918	124.65	131.05	139.16	6.4209	-0.31	0.1551	0.4183	0.33799
1e+12	126.65	129.52	137.16	5.1152	125.71	129.11	136.46	4.946	-0.9416	-0.40665	0.4308	0.59824
5e+12	122.68	129.44	139.26	7.0079	118.8	126.02	136.84	7.6538	-4.0494	-3.4156	-2.4133	0.73656
1e+13	119.97	126.38	130.25	4.8383	112.44	118.97	123.15	4.9348	-7.8514	-7.4144	-6.8397	0.42231

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

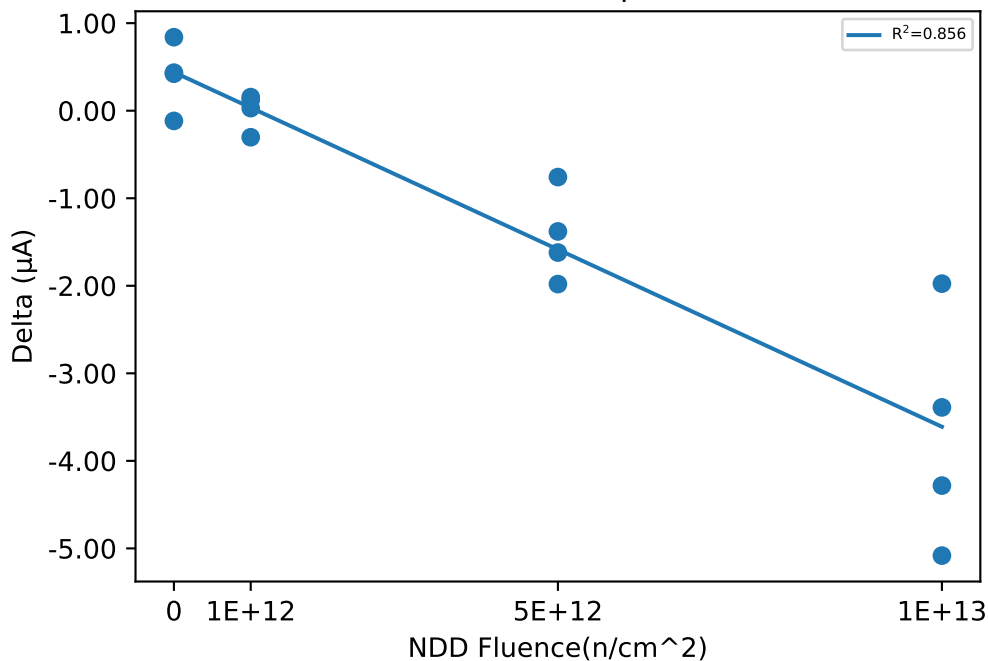
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	127.99	127.69	-0.3034
101	1e+12	NDD	138.09	138.21	0.1223
102	1e+12	NDD	127.19	127.35	0.1551
103	1e+12	NDD	127.63	127.66	0.0295
104	5e+12	NDD	126.42	124.8	-1.6205
105	5e+12	NDD	129.07	128.31	-0.7583
106	5e+12	NDD	123.51	121.53	-1.9806
107	5e+12	NDD	140.4	139.02	-1.3791
108	1e+13	NDD	126.24	121.16	-5.0822
109	1e+13	NDD	119.96	117.98	-1.9755
110	1e+13	NDD	131.13	126.85	-4.2824
111	1e+13	NDD	131.48	128.09	-3.3893
732	0	CORRELATION	125.38	125.82	0.4345
742	0	CORRELATION	128.39	129.23	0.8396
879	0	CORRELATION	132.73	132.61	-0.1167
880	0	CORRELATION	138.61	139.03	0.4225

NDD vs Post - Pre Exposure Delta

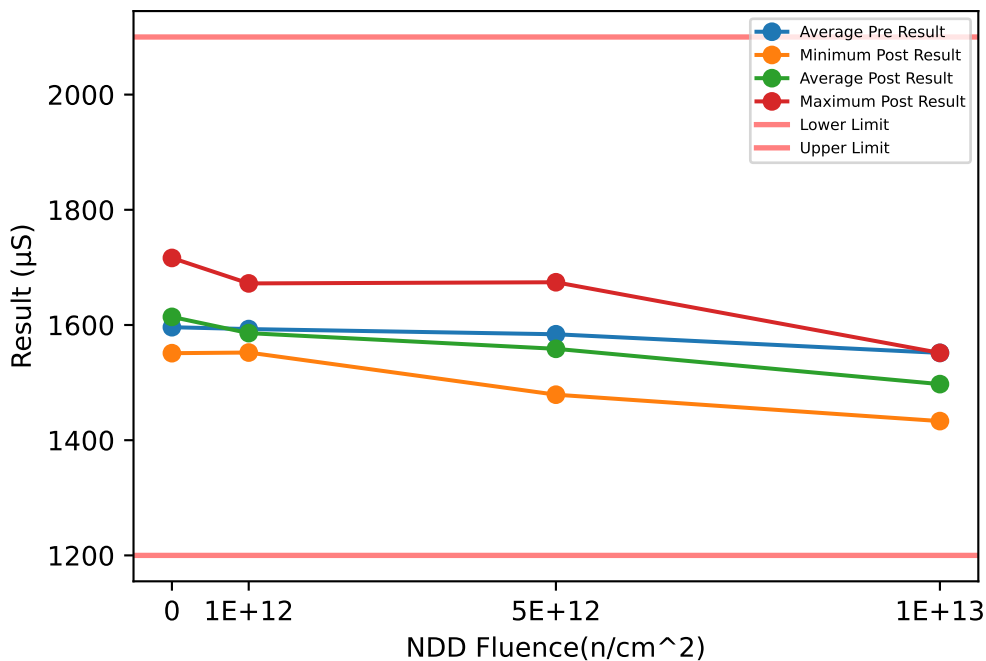


Test Statistics (µA)

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	125.38	131.28	138.61	5.7434	125.82	131.67	139.03	5.6363	-0.1167	0.39497	0.8396	0.39235
1e+12	127.19	130.22	138.09	5.2538	127.35	130.22	138.21	5.3268	-0.3034	0.000875	0.1551	0.20971
5e+12	123.51	129.85	140.4	7.3906	121.53	128.42	139.02	7.593	-1.9806	-1.4346	-0.7583	0.51418
1e+13	119.96	127.2	131.48	5.3885	117.98	123.52	128.09	4.7679	-5.0822	-3.6823	-1.9755	1.3315

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

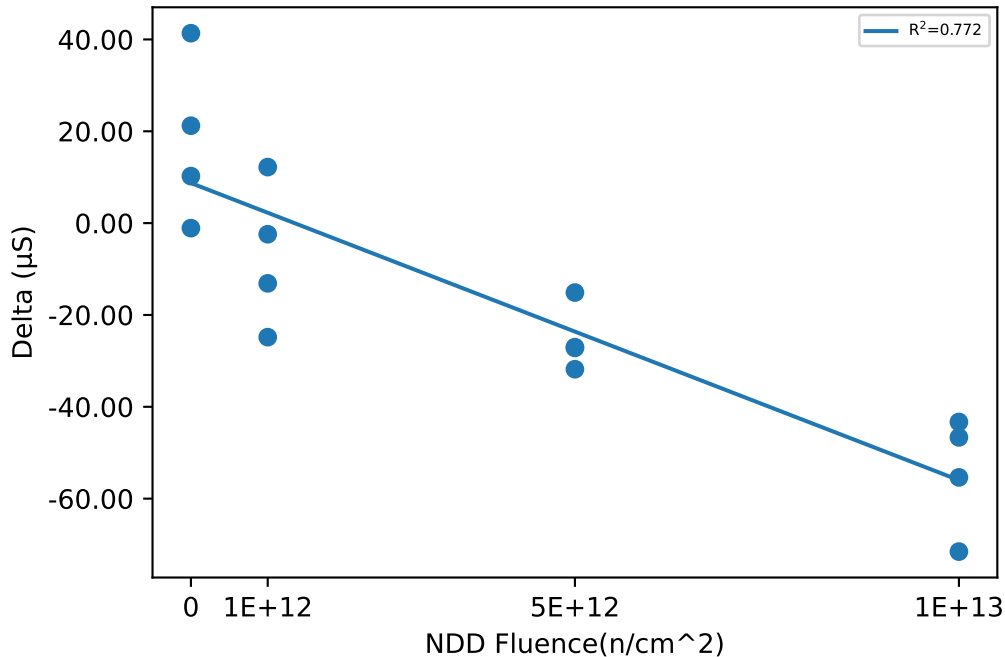
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1567.7	1554.5	-13.117
101	1e+12	NDD	1674.6	1672.2	-2.4202
102	1e+12	NDD	1552.5	1564.7	12.206
103	1e+12	NDD	1577	1552.2	-24.832
104	5e+12	NDD	1559.3	1532.1	-27.176
105	5e+12	NDD	1576.3	1549.3	-27.008
106	5e+12	NDD	1510.8	1479	-31.819
107	5e+12	NDD	1689.3	1674.2	-15.121
108	1e+13	NDD	1535.7	1480.3	-55.372
109	1e+13	NDD	1479.8	1433.2	-46.659
110	1e+13	NDD	1595.9	1524.4	-71.531
111	1e+13	NDD	1594.9	1551.6	-43.304
732	0	CORRELATION	1540.8	1551.1	10.235
742	0	CORRELATION	1552.9	1574.1	21.214
879	0	CORRELATION	1615.9	1614.8	-1.0887
880	0	CORRELATION	1675	1716.4	41.359

NDD vs Post - Pre Exposure Delta

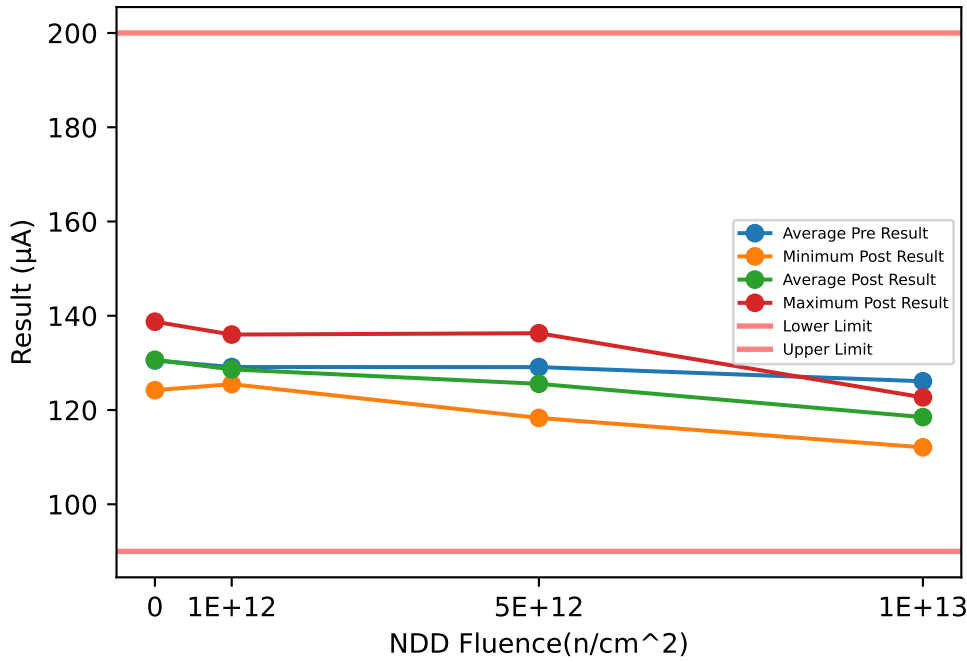


Test Statistics (µS)

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	1540.8	1596.2	1675	62.026	1551.1	1614.1	1716.4	73.114	-1.0887	17.93	41.359	18.08
1e+12	1552.5	1592.9	1674.6	55.381	1552.2	1585.9	1672.2	57.785	-24.832	-7.0409	12.206	15.761
5e+12	1510.8	1583.9	1689.3	75.54	1479	1558.6	1674.2	82.641	-31.819	-25.281	-15.121	7.1305
1e+13	1479.8	1551.6	1595.9	55.495	1433.2	1497.4	1551.6	51.891	-71.531	-54.217	-43.304	12.614

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

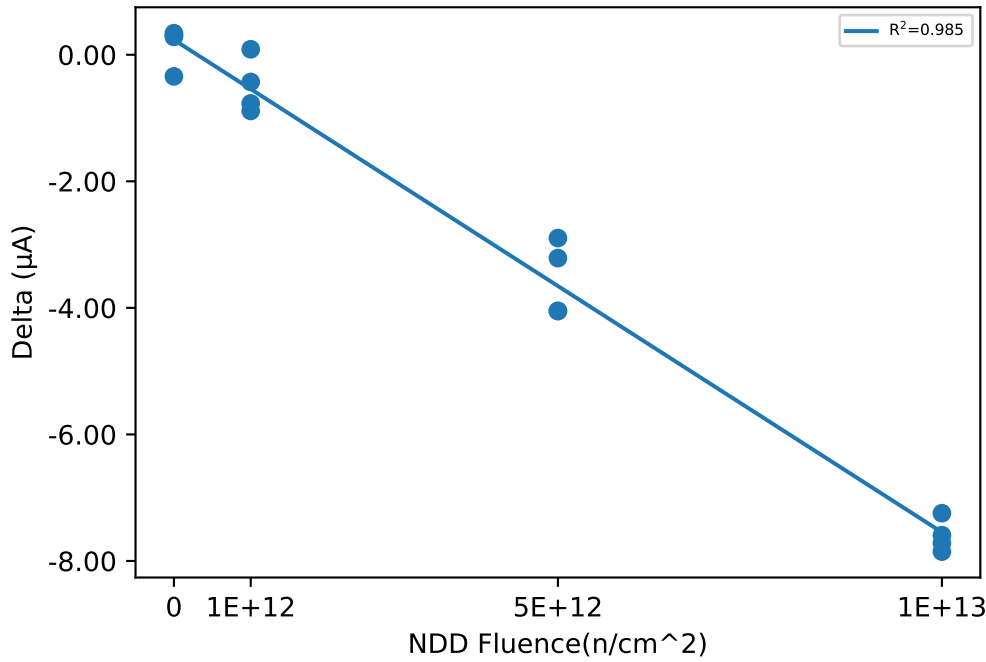
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	126.8	126.37	-0.4296
101	1e+12	NDD	136.9	136.01	-0.8875
102	1e+12	NDD	126.53	126.62	0.087
103	1e+12	NDD	126.26	125.49	-0.7696
104	5e+12	NDD	126.79	123.58	-3.213
105	5e+12	NDD	128.08	124.03	-4.0495
106	5e+12	NDD	122.37	118.32	-4.0488
107	5e+12	NDD	139.19	136.3	-2.8966
108	1e+13	NDD	125.19	117.47	-7.7172
109	1e+13	NDD	119.67	112.08	-7.5922
110	1e+13	NDD	129.61	121.76	-7.8518
111	1e+13	NDD	129.93	122.68	-7.245
732	0	CORRELATION	123.89	124.2	0.3089
742	0	CORRELATION	127.34	127	-0.3414
879	0	CORRELATION	132.41	132.7	0.2827
880	0	CORRELATION	138.4	138.74	0.341

NDD vs Post - Pre Exposure Delta

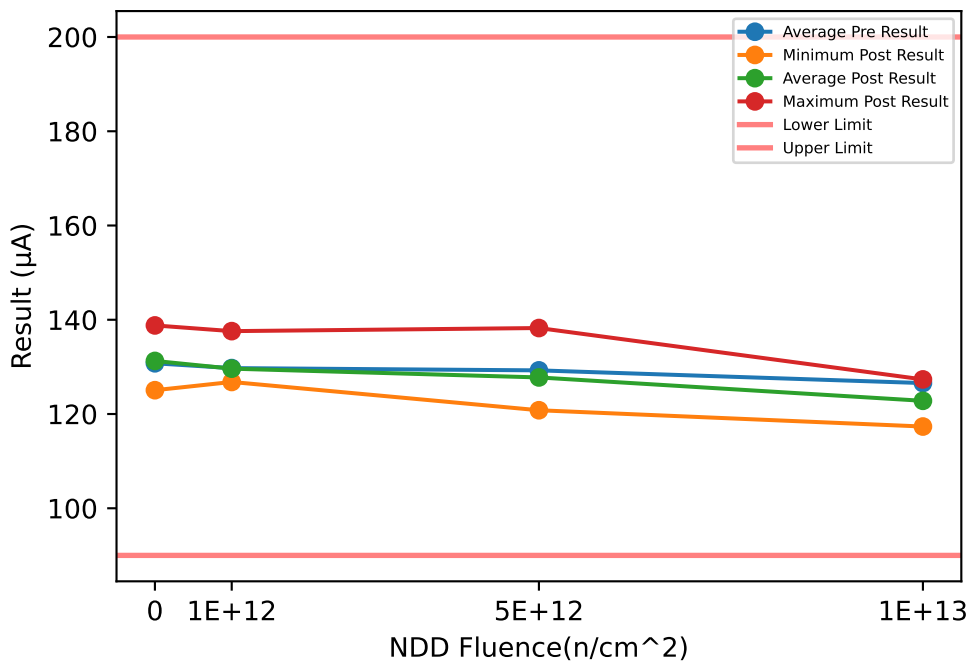


Test Statistics (µA)

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	123.89	130.51	138.4	6.3176	124.2	130.66	138.74	6.4444	-0.3414	0.1478	0.341	0.327
1e+12	126.26	129.12	136.9	5.1883	125.49	128.62	136.01	4.9489	-0.8875	-0.49992	0.087	0.43679
5e+12	122.37	129.11	139.19	7.1554	118.32	125.56	136.3	7.616	-4.0495	-3.552	-2.8966	0.58844
1e+13	119.67	126.1	129.93	4.8003	112.08	118.5	122.68	4.8441	-7.8518	-7.6015	-7.245	0.26027

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

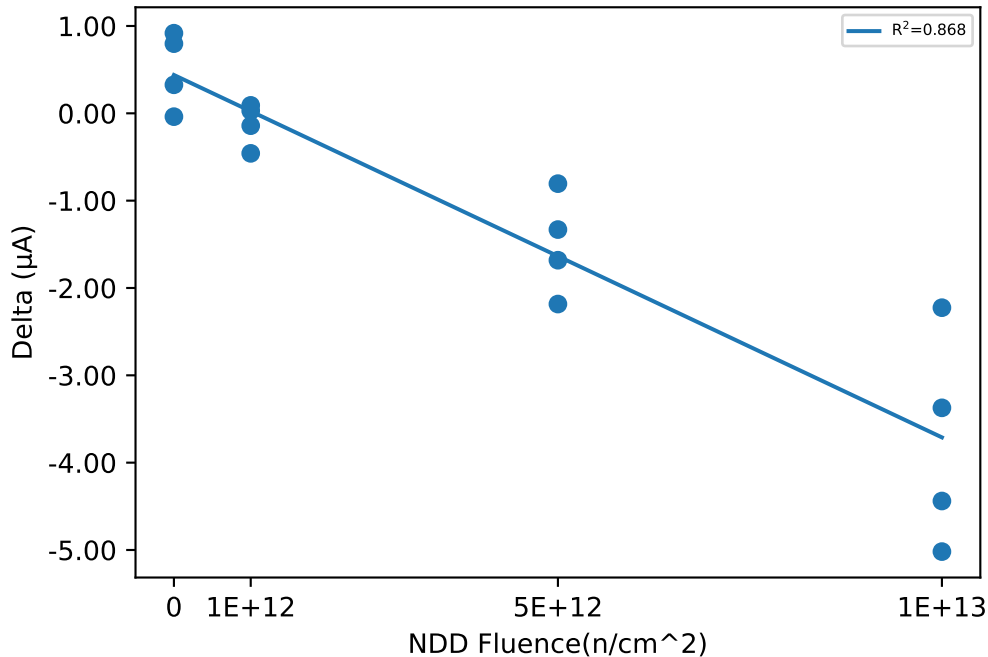
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	127.6	127.14	-0.4585
101	1e+12	NDD	137.5	137.59	0.0911
102	1e+12	NDD	126.77	126.8	0.0297
103	1e+12	NDD	127.11	126.97	-0.1415
104	5e+12	NDD	125.99	124.3	-1.682
105	5e+12	NDD	128.5	127.7	-0.8053
106	5e+12	NDD	122.98	120.8	-2.1839
107	5e+12	NDD	139.57	138.24	-1.3311
108	1e+13	NDD	125.5	120.49	-5.0184
109	1e+13	NDD	119.57	117.34	-2.2256
110	1e+13	NDD	130.47	126.03	-4.4391
111	1e+13	NDD	130.72	127.34	-3.3723
732	0	CORRELATION	124.73	125.05	0.3267
742	0	CORRELATION	127.83	128.75	0.9174
879	0	CORRELATION	132.5	132.46	-0.0383
880	0	CORRELATION	138	138.8	0.7977

NDD vs Post - Pre Exposure Delta

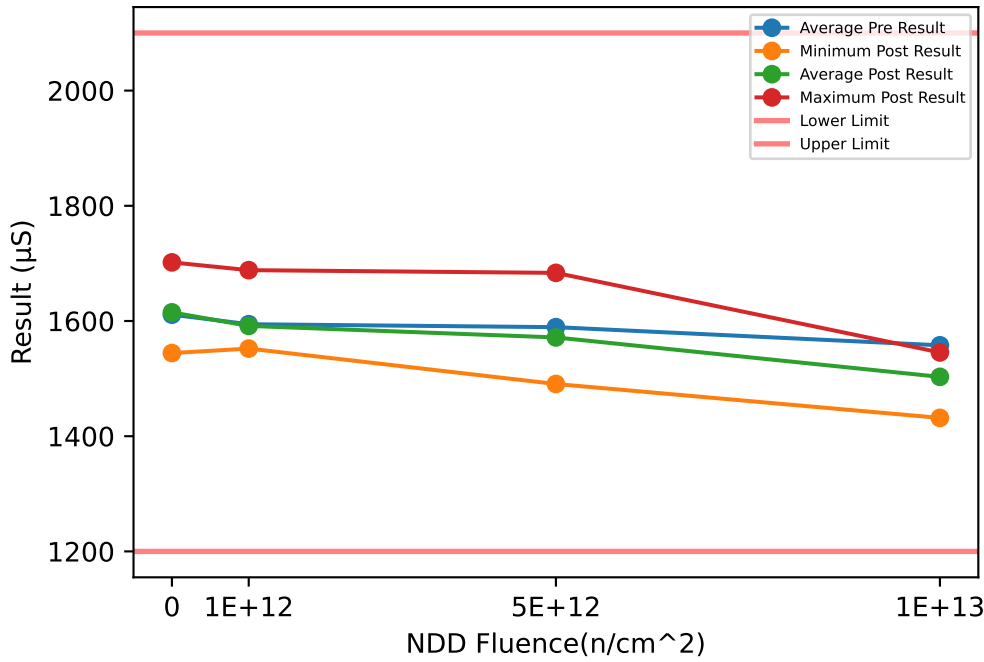


Test Statistics (µA)

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	124.73	130.76	138	5.7861	125.05	131.26	138.8	5.8625	-0.0383	0.50088	0.9174	0.4407
1e+12	126.77	129.74	137.5	5.1793	126.8	129.62	137.59	5.3105	-0.4585	-0.1198	0.0911	0.24632
5e+12	122.98	129.26	139.57	7.2363	120.8	127.76	138.24	7.5348	-2.1839	-1.5006	-0.8053	0.5808
1e+13	119.57	126.57	130.72	5.246	117.34	122.8	127.34	4.6983	-5.0184	-3.7638	-2.2256	1.2314

Device Test: 18.9 EA|STATIC/COMP/5////@EA_GM

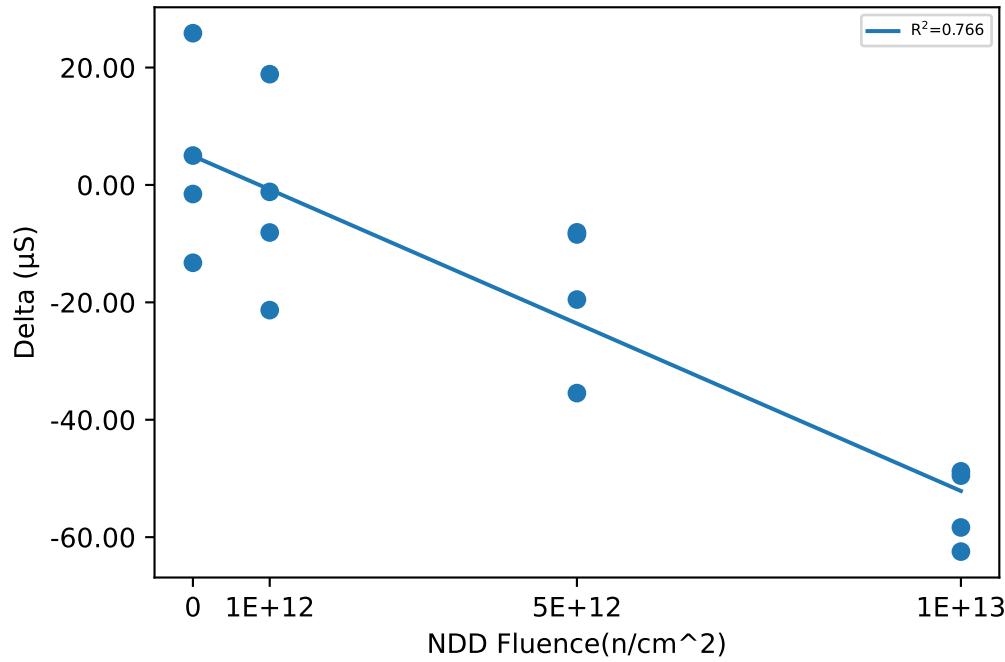
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1576.1	1554.7	-21.324
101	1e+12	NDD	1669.4	1688.3	18.873
102	1e+12	NDD	1553.3	1552.1	-1.1783
103	1e+12	NDD	1578.9	1570.8	-8.101
104	5e+12	NDD	1557.2	1537.7	-19.524
105	5e+12	NDD	1582	1573.9	-8.0734
106	5e+12	NDD	1526.1	1490.6	-35.457
107	5e+12	NDD	1692	1683.6	-8.4385
108	1e+13	NDD	1540.9	1492.1	-48.788
109	1e+13	NDD	1481.3	1431.8	-49.517
110	1e+13	NDD	1601.1	1542.8	-58.348
111	1e+13	NDD	1607.9	1545.4	-62.46
732	0	CORRELATION	1545.9	1544.3	-1.5439
742	0	CORRELATION	1565.5	1591.3	25.852
879	0	CORRELATION	1635.8	1622.5	-13.257
880	0	CORRELATION	1696.8	1701.8	5.0084

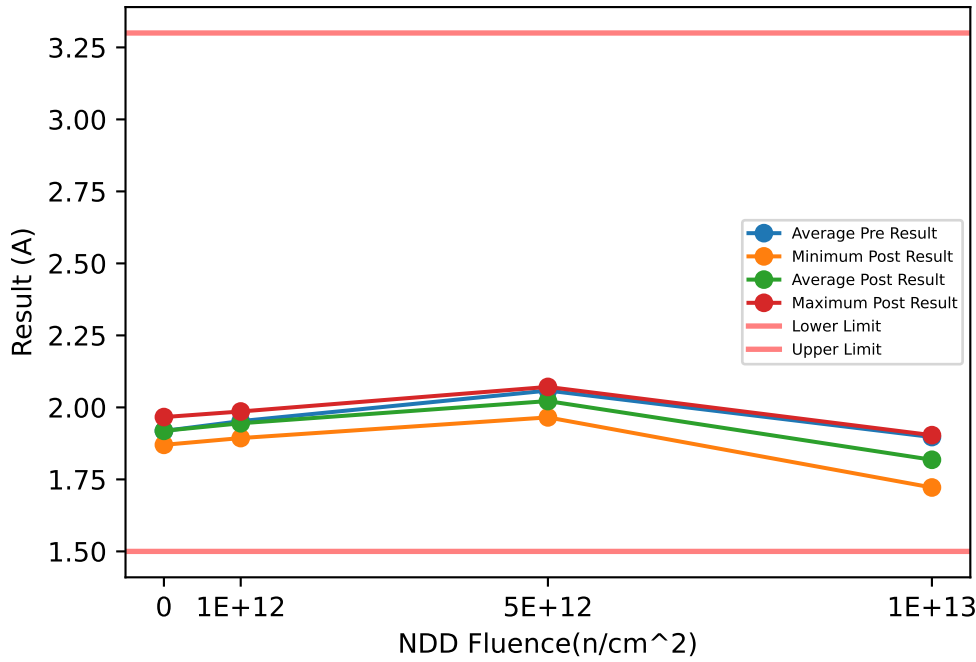
NDD vs Post - Pre Exposure Delta



Test Statistics (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	1545.9	1611	1696.8	68.994	1544.3	1615	1701.8	66.177	-13.257	4.0149	25.852	16.402
1e+12	1553.3	1594.4	1669.4	51.285	1552.1	1591.5	1688.3	65.051	-21.324	-2.9324	18.873	16.768
5e+12	1526.1	1589.3	1692	72.169	1490.6	1571.4	1683.6	82.149	-35.457	-17.873	-8.0734	12.871
1e+13	1481.3	1557.8	1607.9	59.229	1431.8	1503	1545.4	53.458	-62.46	-54.778	-48.788	6.7158

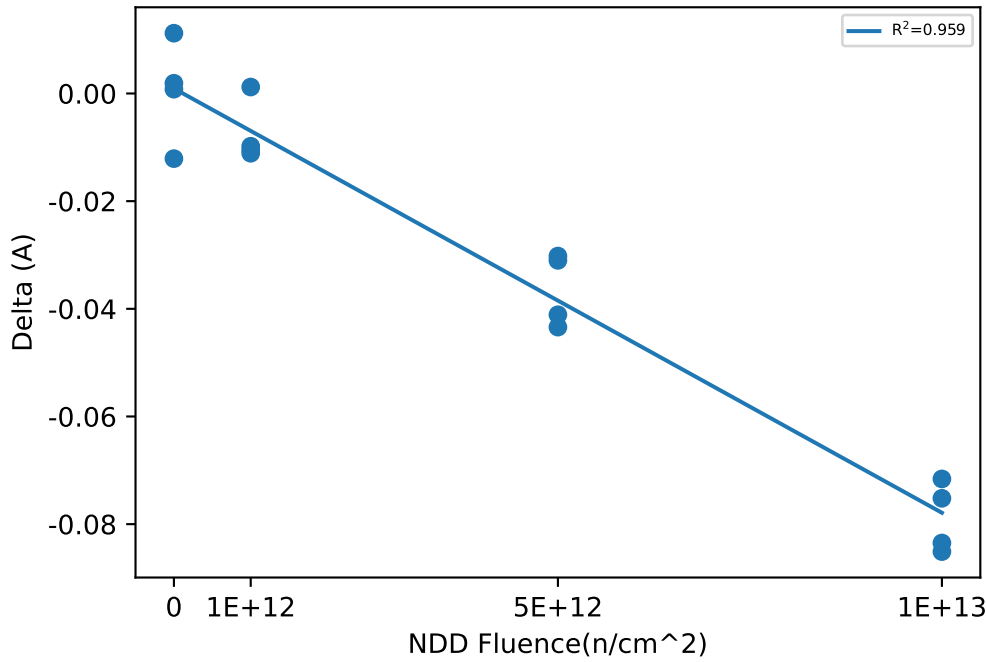
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.9762	1.9664	-0.0098
101	1e+12	NDD	1.9963	1.9858	-0.0105
102	1e+12	NDD	1.9448	1.9337	-0.0111
103	1e+12	NDD	1.8923	1.8935	0.0012
104	5e+12	NDD	2.0618	2.0308	-0.031
105	5e+12	NDD	2.1145	2.0711	-0.0434
106	5e+12	NDD	1.9955	1.9653	-0.0302
107	5e+12	NDD	2.0618	2.0207	-0.0411
108	1e+13	NDD	1.9871	1.9036	-0.0835
109	1e+13	NDD	1.7971	1.7219	-0.0752
110	1e+13	NDD	1.8917	1.8066	-0.0851
111	1e+13	NDD	1.9121	1.8405	-0.0716
732	0	CORRELATION	1.8814	1.8926	0.0112
742	0	CORRELATION	1.8821	1.87	-0.0121
879	0	CORRELATION	1.9437	1.9456	0.0019
880	0	CORRELATION	1.9656	1.9664	0.0008

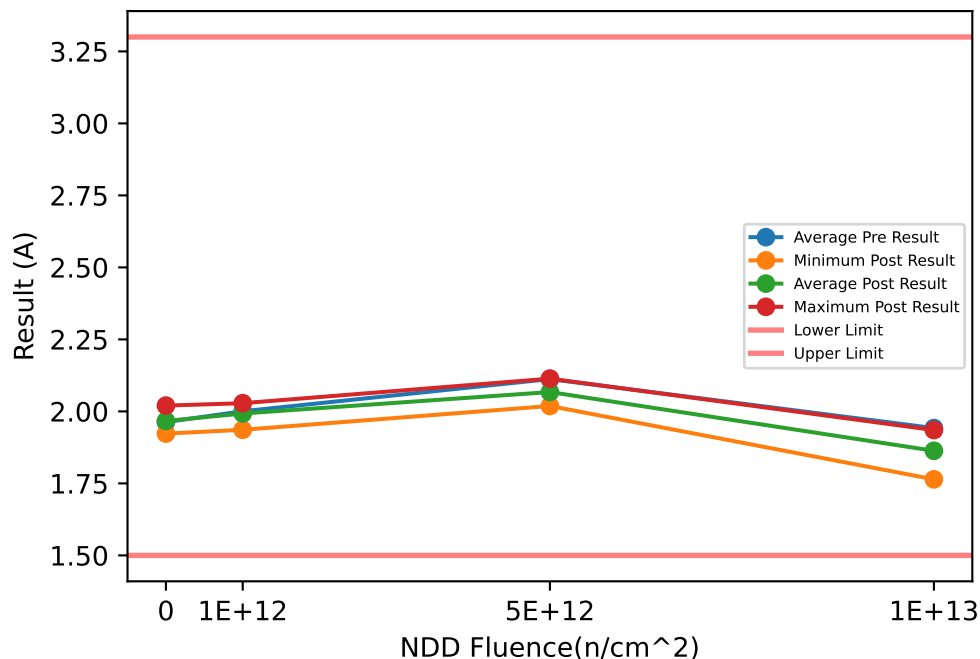
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8814	1.9182	1.9656	0.043029	1.87	1.9186	1.9664	0.044914	-0.0121	0.00045	0.0112	0.0095793
1e+12	1.8923	1.9524	1.9963	0.045326	1.8935	1.9448	1.9858	0.040425	-0.0111	-0.00755	0.0012	0.0058575
5e+12	1.9955	2.0584	2.1145	0.04874	1.9653	2.022	2.0711	0.043607	-0.0434	-0.036425	-0.0302	0.0067992
1e+13	1.7971	1.897	1.9871	0.078218	1.7219	1.8181	1.9036	0.075716	-0.0851	-0.07885	-0.0716	0.0064954

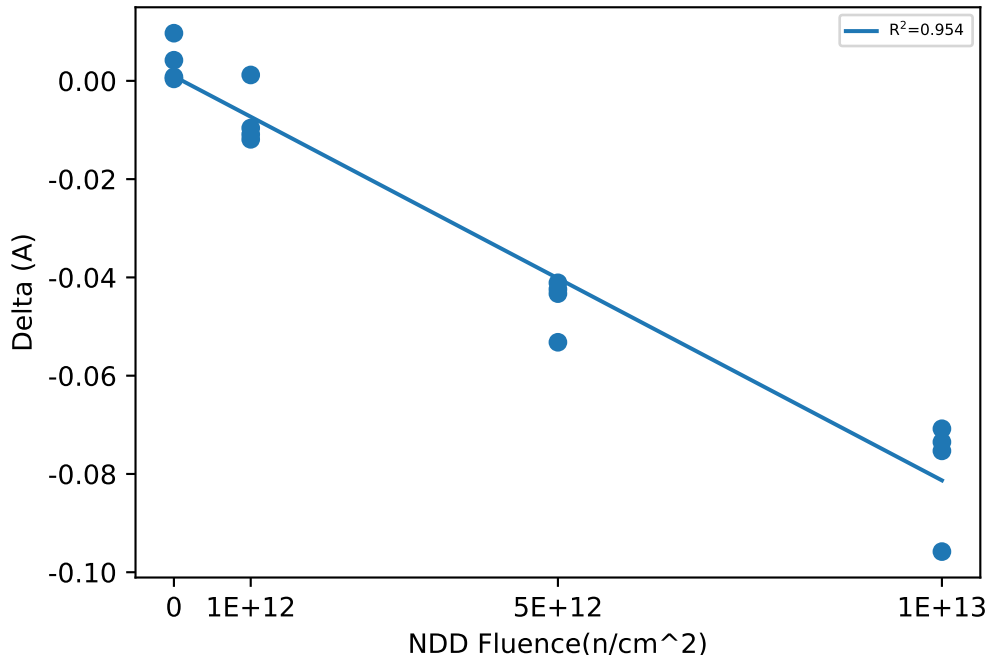
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	2.0189	2.0201	0.0012
101	1e+12	NDD	2.0394	2.0285	-0.0109
102	1e+12	NDD	1.9982	1.9863	-0.0119
103	1e+12	NDD	1.9457	1.9361	-0.0096
104	5e+12	NDD	2.1164	2.0731	-0.0433
105	5e+12	NDD	2.167	2.1138	-0.0532
106	5e+12	NDD	2.0612	2.0188	-0.0424
107	5e+12	NDD	2.1041	2.063	-0.0411
108	1e+13	NDD	2.031	1.9352	-0.0958
109	1e+13	NDD	1.8394	1.7641	-0.0753
110	1e+13	NDD	1.9336	1.8601	-0.0735
111	1e+13	NDD	1.9643	1.8935	-0.0708
732	0	CORRELATION	1.9344	1.9348	0.0004
742	0	CORRELATION	1.9133	1.923	0.0097
879	0	CORRELATION	1.9849	1.9891	0.0042
880	0	CORRELATION	2.0193	2.0201	0.0008

NDD vs Post - Pre Exposure Delta

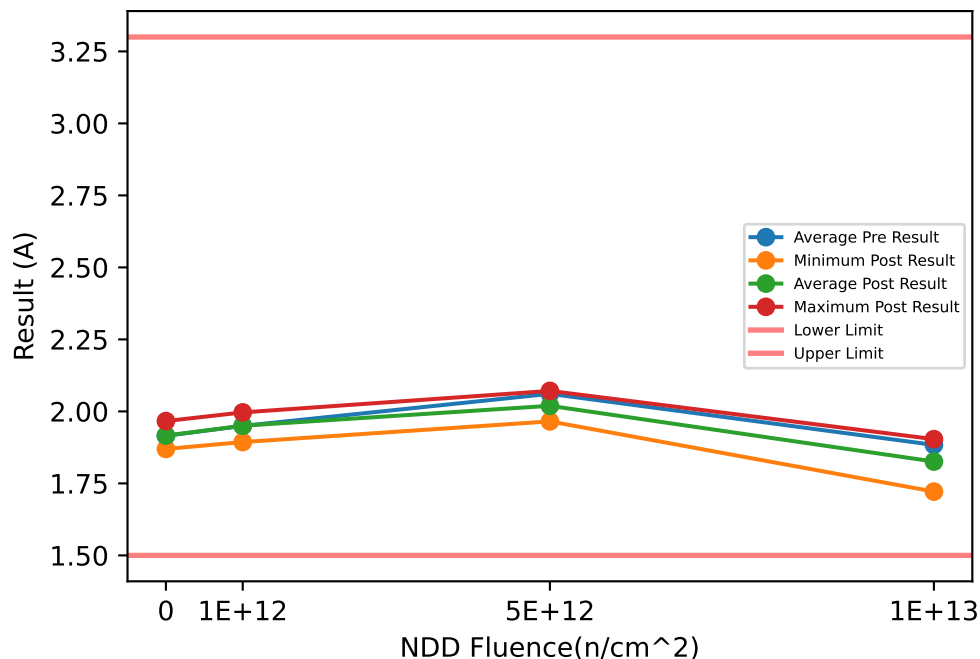


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9133	1.963	2.0193	0.048088	1.923	1.9667	2.0201	0.045755	0.0004	0.003775	0.0097	0.0043022
1e+12	1.9457	2.0006	2.0394	0.04025	1.9361	1.9928	2.0285	0.04194	-0.0119	-0.0078	0.0012	0.0060734
5e+12	2.0612	2.1122	2.167	0.04354	2.0188	2.0672	2.1138	0.039015	-0.0532	-0.045	-0.0411	0.0055408
1e+13	1.8394	1.9421	2.031	0.079615	1.7641	1.8632	1.9352	0.072875	-0.0958	-0.07885	-0.0708	0.01145

Device Test: 19.5 LEVEL|SINK/SW/5////@LOWSIDE_CURR_LIM_SINKING_25C_PLST

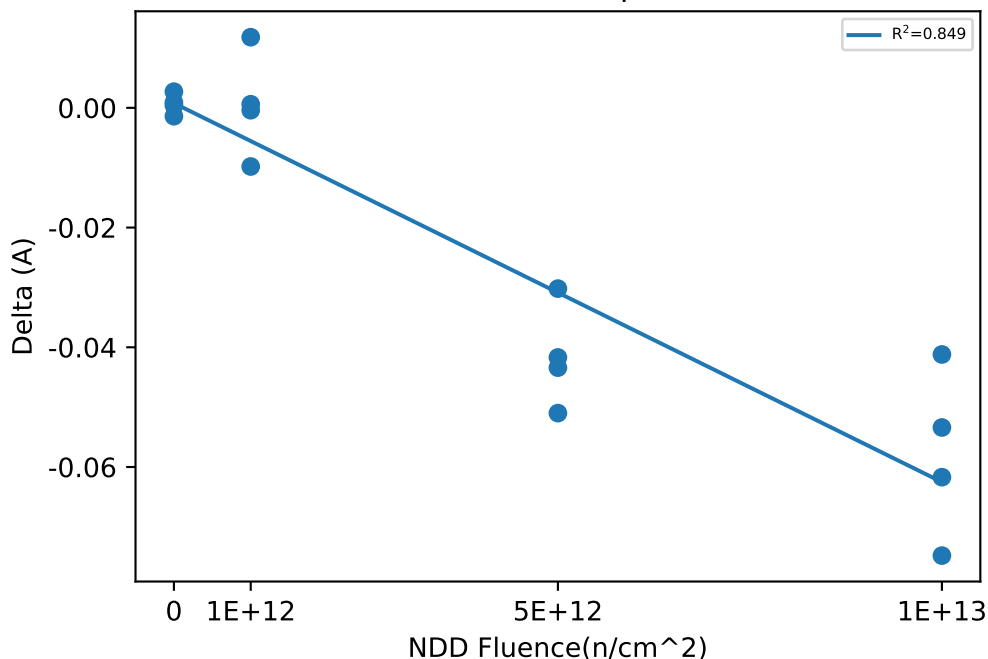
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.9762	1.9664	-0.0098
101	1e+12	NDD	1.9959	1.9965	0.0006
102	1e+12	NDD	1.9448	1.9444	-0.0004
103	1e+12	NDD	1.8817	1.8935	0.0118
104	5e+12	NDD	2.0725	2.0308	-0.0417
105	5e+12	NDD	2.1145	2.0711	-0.0434
106	5e+12	NDD	1.9955	1.9653	-0.0302
107	5e+12	NDD	2.0614	2.0104	-0.051
108	1e+13	NDD	1.9448	1.9036	-0.0412
109	1e+13	NDD	1.7963	1.7215	-0.0748
110	1e+13	NDD	1.8814	1.828	-0.0534
111	1e+13	NDD	1.9121	1.8504	-0.0617
732	0	CORRELATION	1.8814	1.8823	0.0009
742	0	CORRELATION	1.871	1.8696	-0.0014
879	0	CORRELATION	1.9429	1.9456	0.0027
880	0	CORRELATION	1.966	1.9664	0.0004

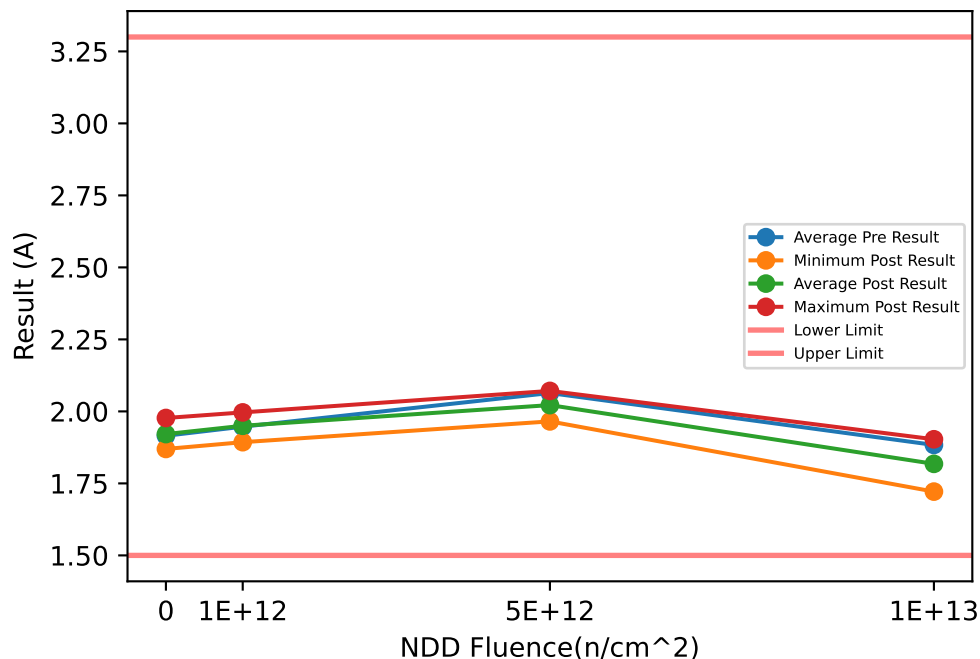
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.871	1.9153	1.966	0.046346	1.8696	1.916	1.9664	0.047276	-0.0014	0.00065	0.0027	0.0016862
1e+12	1.8817	1.9497	1.9959	0.049949	1.8935	1.9502	1.9965	0.043415	-0.0098	0.00055	0.0118	0.0088429
5e+12	1.9955	2.061	2.1145	0.049278	1.9653	2.0194	2.0711	0.04401	-0.051	-0.041575	-0.0302	0.0085939
1e+13	1.7963	1.8837	1.9448	0.063728	1.7215	1.8259	1.9036	0.076466	-0.0748	-0.057775	-0.0412	0.014132

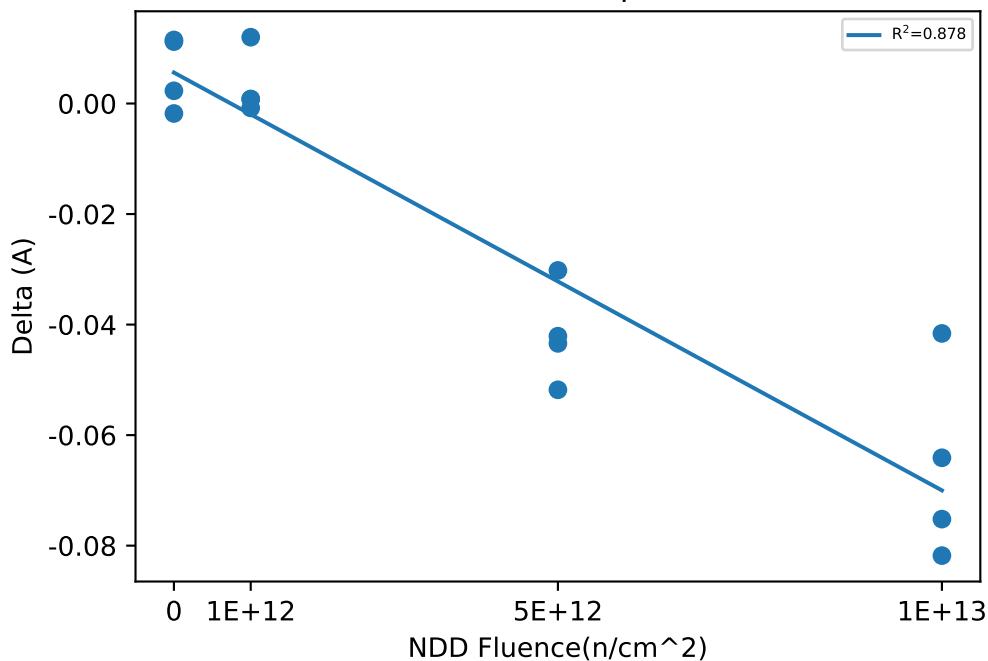
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.9656	1.9664	0.0008
101	1e+12	NDD	1.9845	1.9965	0.012
102	1e+12	NDD	1.9452	1.9444	-0.0008
103	1e+12	NDD	1.8923	1.8931	0.0008
104	5e+12	NDD	2.0725	2.0304	-0.0421
105	5e+12	NDD	2.1145	2.0711	-0.0434
106	5e+12	NDD	1.9955	1.9653	-0.0302
107	5e+12	NDD	2.0725	2.0207	-0.0518
108	1e+13	NDD	1.9448	1.9032	-0.0416
109	1e+13	NDD	1.7967	1.7215	-0.0752
110	1e+13	NDD	1.881	1.8169	-0.0641
111	1e+13	NDD	1.9117	1.8299	-0.0818
732	0	CORRELATION	1.8814	1.8926	0.0112
742	0	CORRELATION	1.8714	1.8696	-0.0018
879	0	CORRELATION	1.9433	1.9456	0.0023
880	0	CORRELATION	1.9656	1.9771	0.0115

NDD vs Post - Pre Exposure Delta

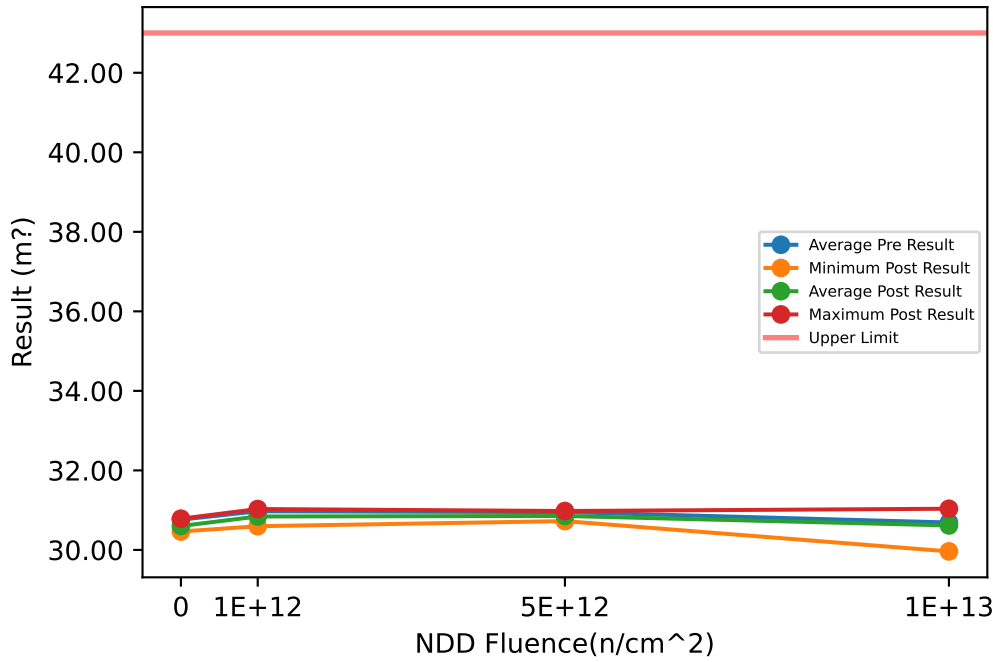


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8714	1.9154	1.9656	0.046154	1.8696	1.9212	1.9771	0.048992	-0.0018	0.0058	0.0115	0.0066247
1e+12	1.8923	1.9469	1.9845	0.039781	1.8931	1.9501	1.9965	0.04359	-0.0008	0.0032	0.012	0.005915
5e+12	1.9955	2.0637	2.1145	0.049621	1.9653	2.0219	2.0711	0.043581	-0.0518	-0.041875	-0.0302	0.0088917
1e+13	1.7967	1.8836	1.9448	0.063491	1.7215	1.8179	1.9032	0.074641	-0.0818	-0.065675	-0.0416	0.017634

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

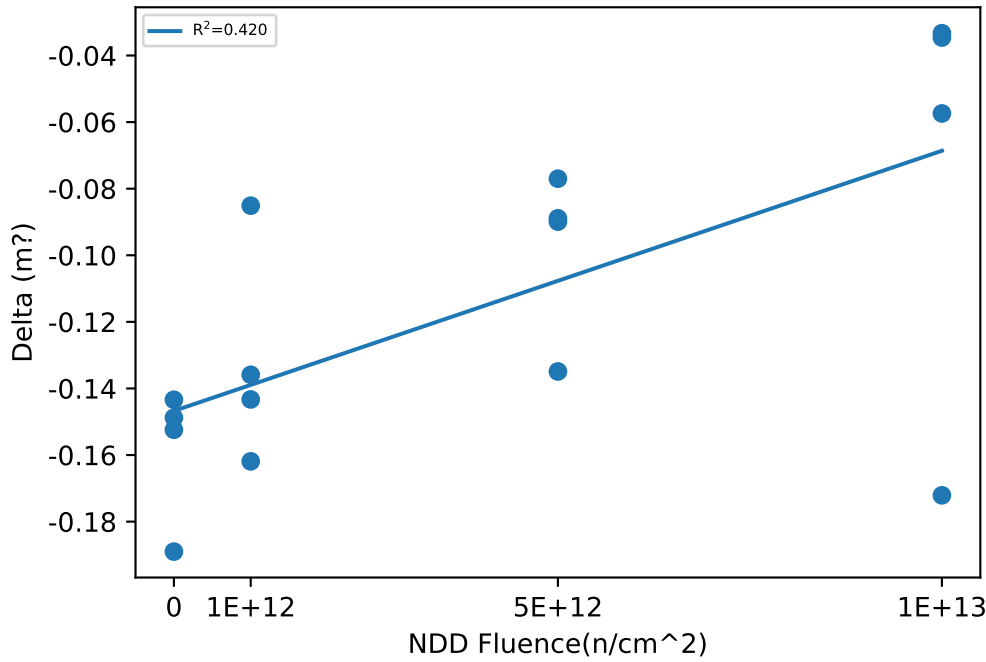
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	31.172	31.028	-0.1433
101	1e+12	NDD	31.021	30.936	-0.0851
102	1e+12	NDD	30.964	30.802	-0.1619
103	1e+12	NDD	30.732	30.596	-0.1359
104	5e+12	NDD	30.872	30.782	-0.0899
105	5e+12	NDD	30.802	30.725	-0.077
106	5e+12	NDD	31.017	30.928	-0.0889
107	5e+12	NDD	31.114	30.979	-0.1349
108	1e+13	NDD	30.135	29.963	-0.1721
109	1e+13	NDD	30.541	30.508	-0.0333
110	1e+13	NDD	30.991	30.956	-0.0346
111	1e+13	NDD	31.093	31.035	-0.0574
732	0	CORRELATION	30.938	30.785	-0.1524
742	0	CORRELATION	30.639	30.495	-0.1434
879	0	CORRELATION	30.611	30.463	-0.1488
880	0	CORRELATION	30.852	30.663	-0.189

NDD vs Post - Pre Exposure Delta

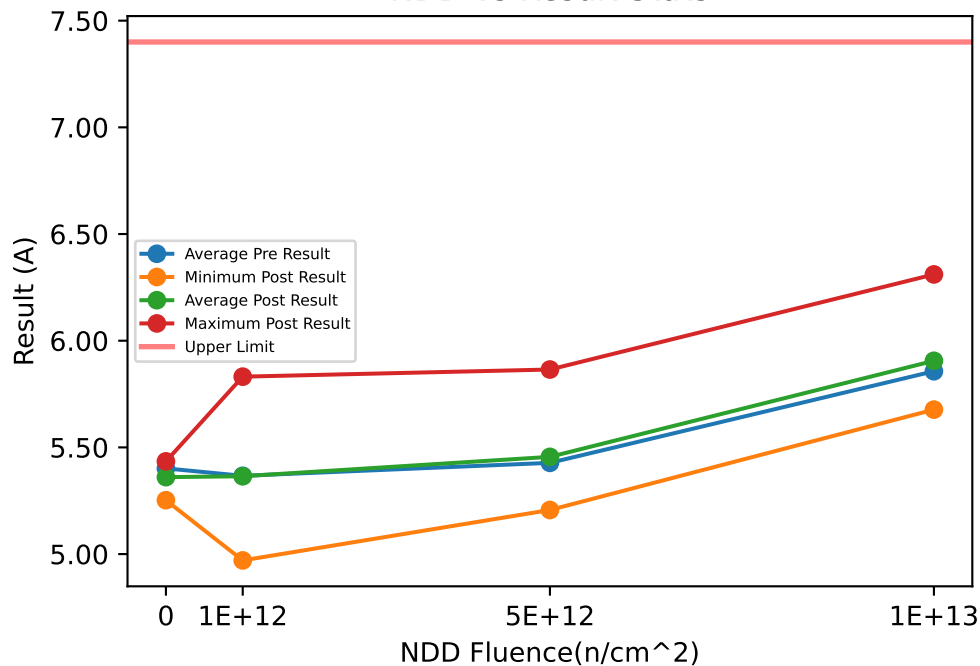


Test Statistics (m?)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	30.611	30.76	30.938	0.15996	30.463	30.602	30.785	0.15065	-0.189	-0.1584	-0.1434	0.020733
1e+12	30.732	30.972	31.172	0.18234	30.596	30.841	31.028	0.18749	-0.1619	-0.13155	-0.0851	0.032842
5e+12	30.802	30.951	31.114	0.14051	30.725	30.853	30.979	0.11948	-0.1349	-0.097675	-0.077	0.025499
1e+13	30.135	30.69	31.093	0.44086	29.963	30.616	31.035	0.4933	-0.1721	-0.07435	-0.0333	0.0661

Device Test: 20.106 THRESHOLD|RISE/SW/12/////@HIGH_SIDE_CURR_LIM_6A_PLST

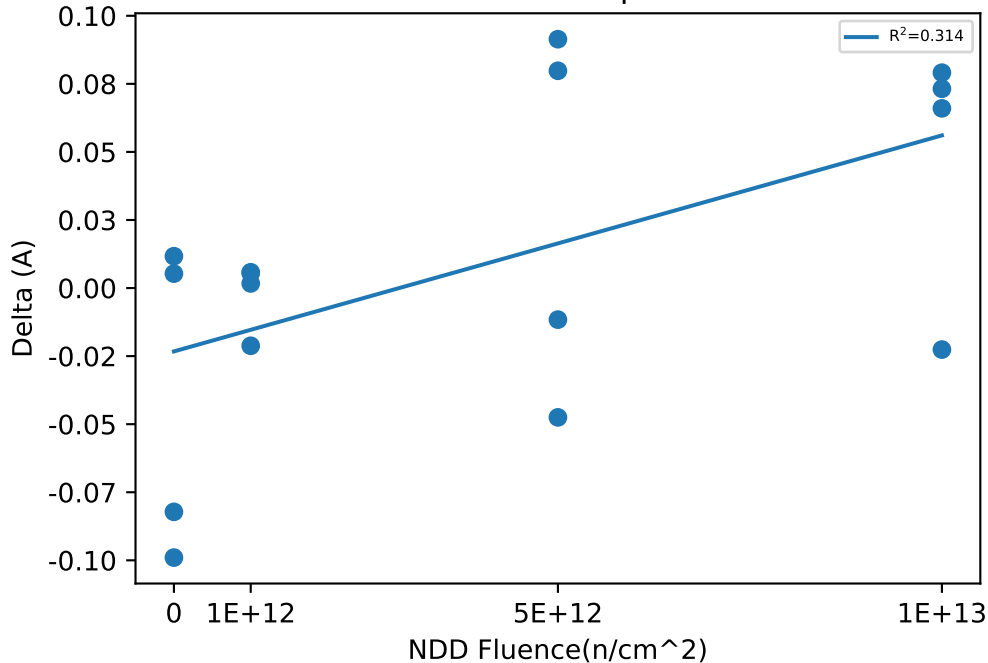
NDD vs Result Stats



Test Results (Upper Limit = 7.4 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5.8298	5.8315	0.0017
101	1e+12	NDD	4.9649	4.9704	0.0055
102	1e+12	NDD	5.6373	5.6161	-0.0212
103	1e+12	NDD	5.0353	5.0411	0.0058
104	5e+12	NDD	5.4556	5.5354	0.0798
105	5e+12	NDD	5.1152	5.2066	0.0914
106	5e+12	NDD	5.8766	5.865	-0.0116
107	5e+12	NDD	5.2631	5.2156	-0.0475
108	1e+13	NDD	5.6039	5.6771	0.0732
109	1e+13	NDD	5.8215	5.9006	0.0791
110	1e+13	NDD	6.2447	6.3107	0.066
111	1e+13	NDD	5.7576	5.735	-0.0226
732	0	CORRELATION	5.4434	5.3612	-0.0822
742	0	CORRELATION	5.4292	5.4345	0.0053
879	0	CORRELATION	5.3515	5.2525	-0.099
880	0	CORRELATION	5.3824	5.3941	0.0117

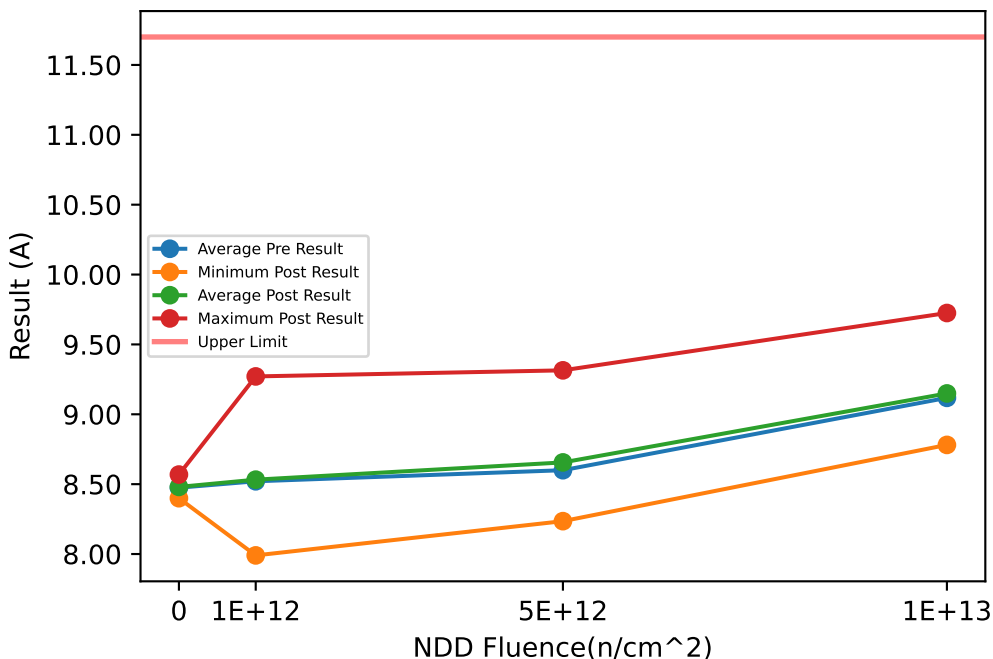
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.3515	5.4016	5.4434	0.042378	5.2525	5.3606	5.4345	0.078037	-0.099	-0.04105	0.0117	0.057684
1e+12	4.9649	5.3668	5.8298	0.43165	4.9704	5.3648	5.8315	0.42477	-0.0212	-0.00205	0.0058	0.012902
5e+12	5.1152	5.4276	5.8766	0.33017	5.2066	5.4557	5.865	0.31282	-0.0475	0.028025	0.0914	0.068243
1e+13	5.6039	5.8569	6.2447	0.27417	5.6771	5.9059	6.3107	0.28603	-0.0226	0.048925	0.0791	0.047983

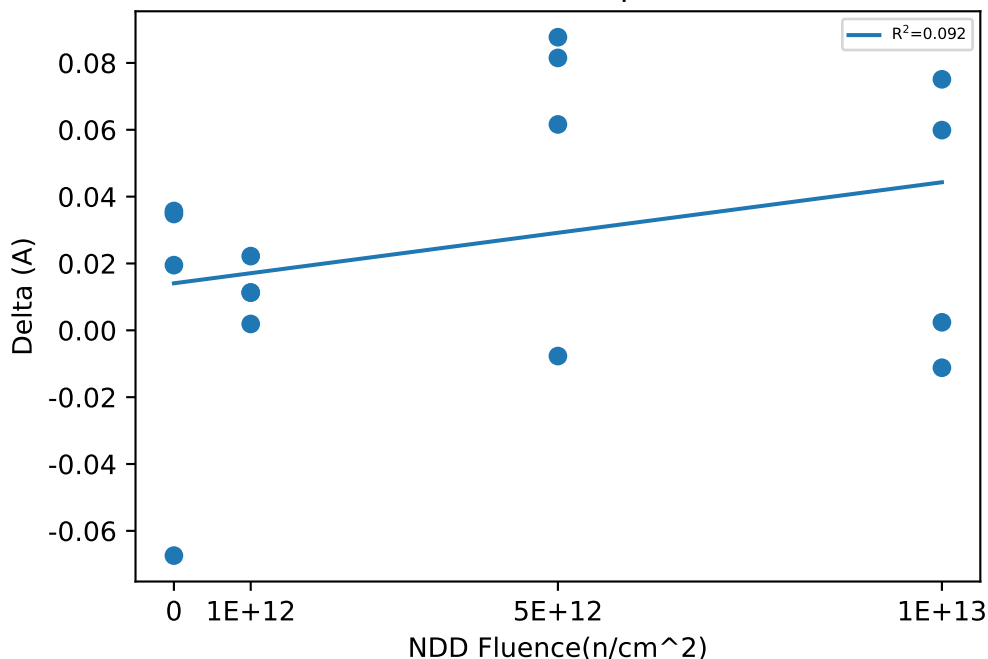
NDD vs Result Stats



Test Results (Upper Limit = 11.7 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	9.2597	9.271	0.0113
101	1e+12	NDD	7.9789	7.9902	0.0113
102	1e+12	NDD	8.7673	8.7692	0.0019
103	1e+12	NDD	8.0762	8.0984	0.0222
104	5e+12	NDD	8.7058	8.6981	-0.0077
105	5e+12	NDD	8.1475	8.2352	0.0877
106	5e+12	NDD	9.233	9.3145	0.0815
107	5e+12	NDD	8.313	8.3746	0.0616
108	1e+13	NDD	8.7785	8.7809	0.0024
109	1e+13	NDD	8.9992	9.0743	0.0751
110	1e+13	NDD	9.736	9.7248	-0.0112
111	1e+13	NDD	8.9569	9.0168	0.0599
732	0	CORRELATION	8.5155	8.535	0.0195
742	0	CORRELATION	8.533	8.5687	0.0357
879	0	CORRELATION	8.4669	8.3995	-0.0674
880	0	CORRELATION	8.3834	8.4182	0.0348

NDD vs Post - Pre Exposure Delta

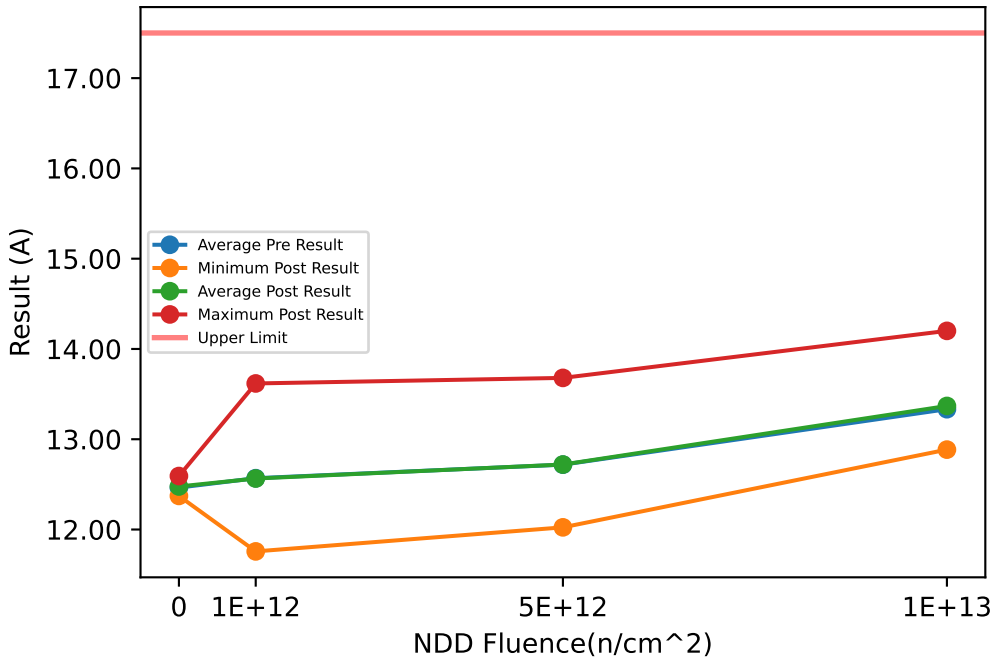


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.3834	8.4747	8.533	0.066983	8.3995	8.4803	8.5687	0.084047	-0.0674	0.00565	0.0357	0.049264
1e+12	7.9789	8.5205	9.2597	0.605	7.9902	8.5322	9.271	0.60109	0.0019	0.011675	0.0222	0.0082987
5e+12	8.1475	8.5998	9.233	0.4827	8.2352	8.6556	9.3145	0.48016	-0.0077	0.055775	0.0877	0.043757
1e+13	8.7785	9.1176	9.736	0.42318	8.7809	9.1492	9.7248	0.40419	-0.0112	0.03155	0.0751	0.042338

Device Test: 20.108 THRESHOLD|RISE/SW/12////@HIGH_SIDE_CURR_LIM_13A_PLST

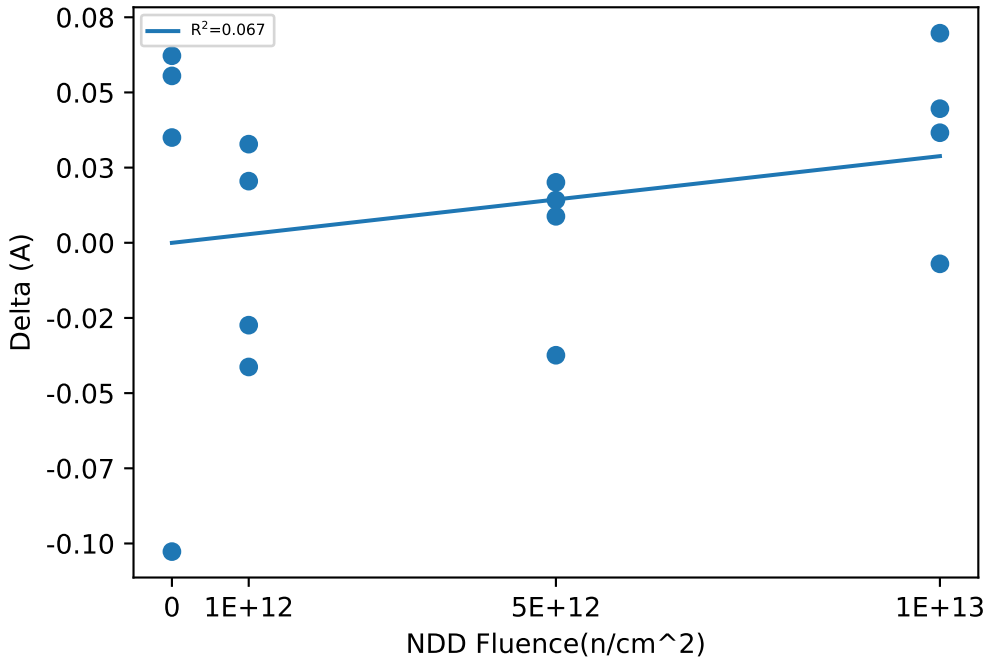
NDD vs Result Stats



Test Results (Upper Limit = 17.5 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	13.645	13.618	-0.0274
101	1e+12	NDD	11.737	11.758	0.0205
102	1e+12	NDD	12.864	12.896	0.0328
103	1e+12	NDD	12.028	11.987	-0.0413
104	5e+12	NDD	12.81	12.83	0.0201
105	5e+12	NDD	12.015	12.024	0.0088
106	5e+12	NDD	13.717	13.68	-0.0374
107	5e+12	NDD	12.331	12.345	0.0142
108	1e+13	NDD	12.84	12.885	0.0446
109	1e+13	NDD	13.139	13.175	0.0366
110	1e+13	NDD	14.131	14.2	0.0697
111	1e+13	NDD	13.221	13.214	-0.007
732	0	CORRELATION	12.557	12.592	0.035
742	0	CORRELATION	12.46	12.515	0.0555
879	0	CORRELATION	12.475	12.372	-0.1027
880	0	CORRELATION	12.365	12.427	0.0622

NDD vs Post - Pre Exposure Delta

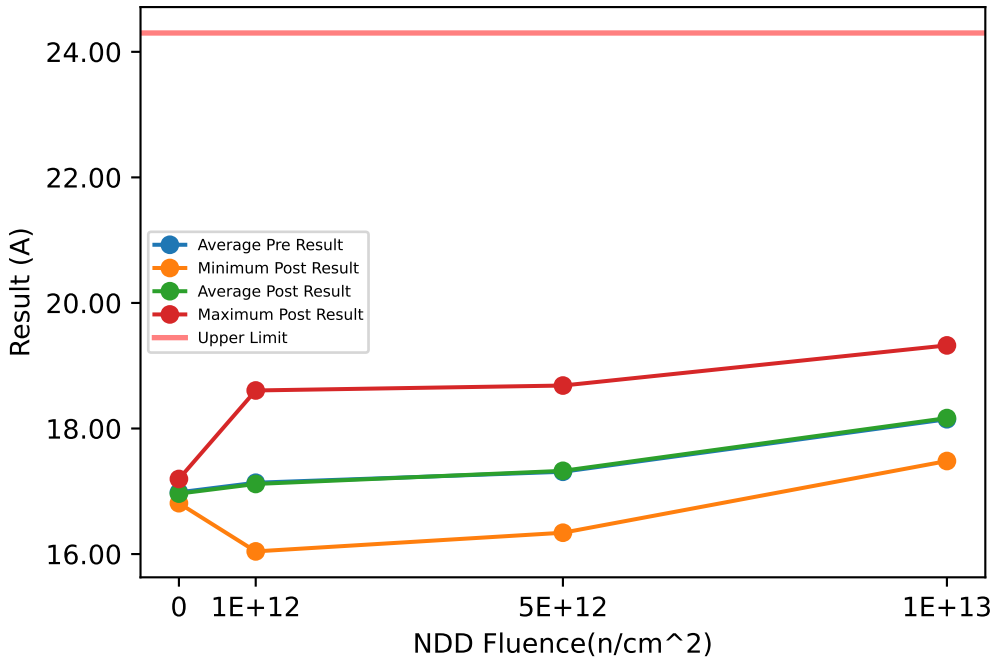


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.365	12.464	12.557	0.078947	12.372	12.477	12.592	0.097108	-0.1027	0.0125	0.0622	0.077667
1e+12	11.737	12.569	13.645	0.86213	11.758	12.565	13.618	0.85723	-0.0413	-0.00385	0.0328	0.036024
5e+12	12.015	12.718	13.717	0.74158	12.024	12.72	13.68	0.72054	-0.0374	0.001425	0.0201	0.026291
1e+13	12.84	13.333	14.131	0.55656	12.885	13.369	14.2	0.5736	-0.007	0.035975	0.0697	0.031932

Device Test: 20.109 THRESHOLD|RISE/SW/12////@HIGH_SIDE_CURR_LIM_19A_PLST

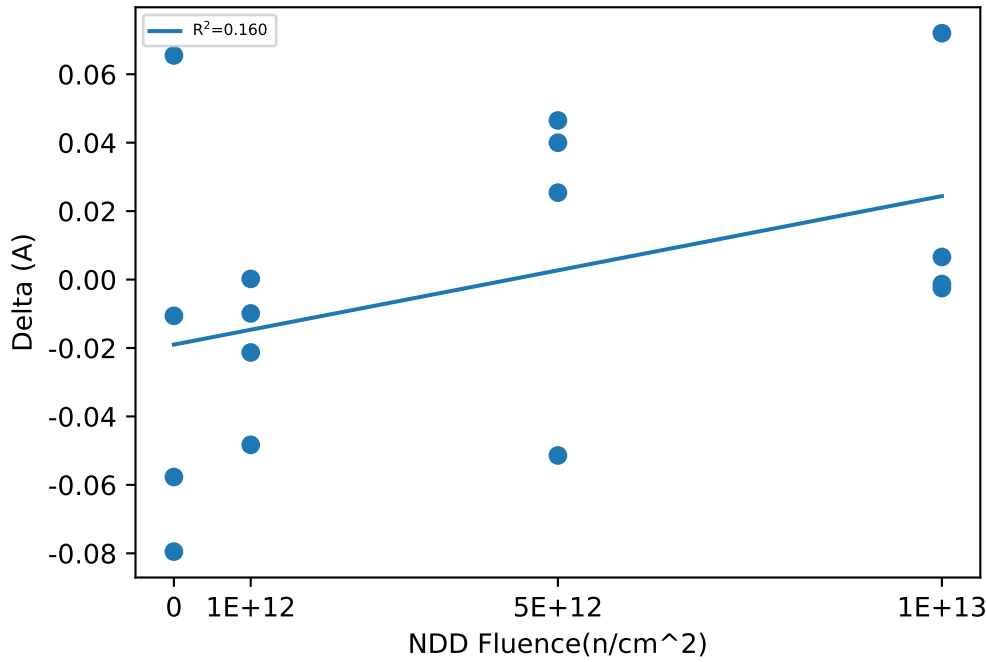
NDD vs Result Stats



Test Results (Upper Limit = 24.3 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	18.606	18.606	0.0002
101	1e+12	NDD	16.091	16.043	-0.0483
102	1e+12	NDD	17.5	17.49	-0.0099
103	1e+12	NDD	16.349	16.327	-0.0213
104	5e+12	NDD	17.396	17.436	0.04
105	5e+12	NDD	16.391	16.34	-0.0514
106	5e+12	NDD	18.638	18.684	0.0465
107	5e+12	NDD	16.818	16.843	0.0254
108	1e+13	NDD	17.41	17.482	0.072
109	1e+13	NDD	17.857	17.856	-0.0013
110	1e+13	NDD	19.326	19.324	-0.0025
111	1e+13	NDD	17.996	18.003	0.0066
732	0	CORRELATION	17.207	17.196	-0.0106
742	0	CORRELATION	16.951	17.017	0.0655
879	0	CORRELATION	16.89	16.81	-0.0795
880	0	CORRELATION	16.887	16.829	-0.0577

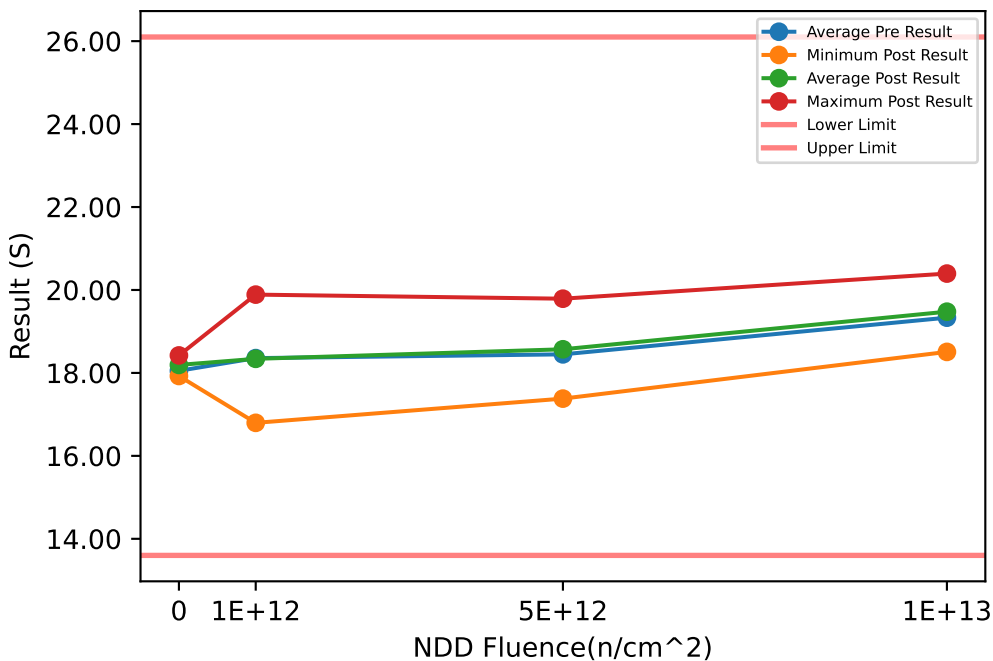
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	16.887	16.984	17.207	0.15171	16.81	16.963	17.196	0.18125	-0.0795	-0.020575	0.0655	0.064184
1e+12	16.091	17.136	18.606	1.1555	16.043	17.117	18.606	1.174	-0.0483	-0.019825	0.0002	0.020917
5e+12	16.391	17.311	18.638	0.97586	16.34	17.326	18.684	1.0104	-0.0514	0.015125	0.0465	0.045219
1e+13	17.41	18.147	19.326	0.82471	17.482	18.166	19.324	0.80229	-0.0025	0.0187	0.072	0.035762

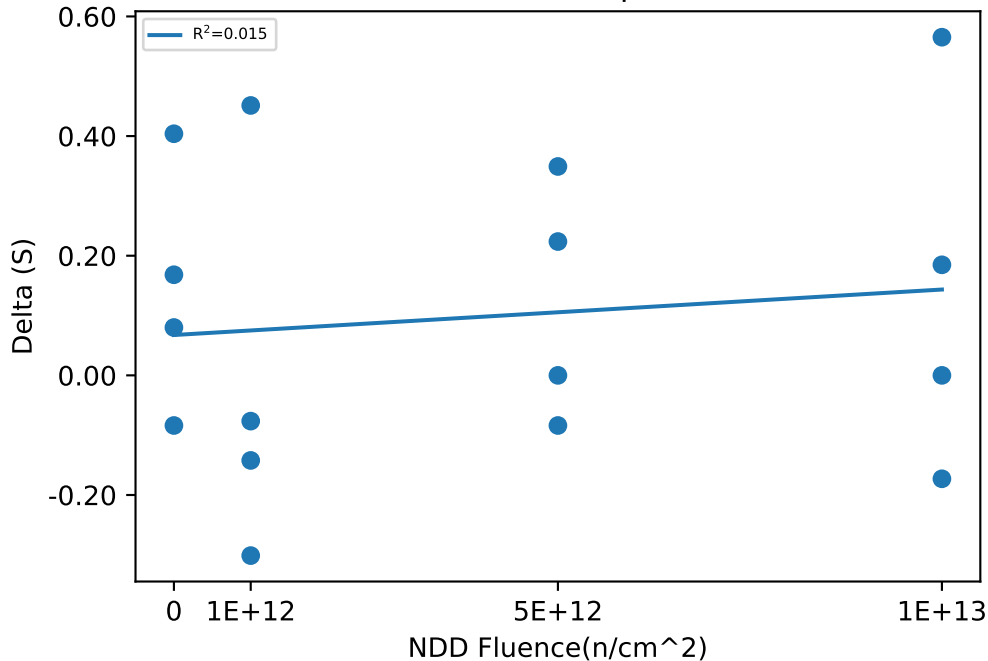
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	20.189	19.888	-0.3013
101	1e+12	NDD	16.939	16.796	-0.1422
102	1e+12	NDD	18.768	19.219	0.4512
103	1e+12	NDD	17.533	17.456	-0.0765
104	5e+12	NDD	18.337	18.253	-0.0838
105	5e+12	NDD	17.157	17.38	0.2237
106	5e+12	NDD	19.79	19.79	0
107	5e+12	NDD	18.507	18.856	0.3492
108	1e+13	NDD	18.68	18.507	-0.1729
109	1e+13	NDD	19.127	19.692	0.5653
110	1e+13	NDD	20.395	20.395	0
111	1e+13	NDD	19.127	19.312	0.1848
732	0	CORRELATION	17.767	18.171	0.4039
742	0	CORRELATION	18.253	18.422	0.1682
879	0	CORRELATION	17.846	17.926	0.08
880	0	CORRELATION	18.337	18.253	-0.0838

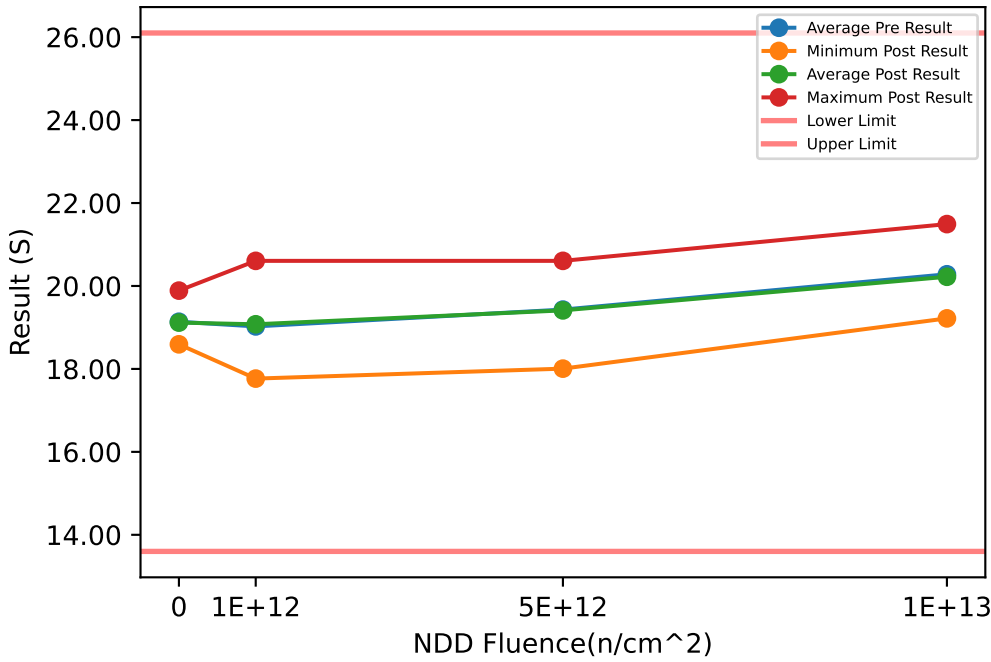
NDD vs Post - Pre Exposure Delta



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	17.767	18.051	18.337	0.28623	17.926	18.193	18.422	0.20632	-0.0838	0.14208	0.4039	0.20339
1e+12	16.939	18.357	20.189	1.4396	16.796	18.34	19.888	1.4529	-0.3013	-0.0172	0.4512	0.32622
5e+12	17.157	18.448	19.79	1.0776	17.38	18.57	19.79	1.0141	-0.0838	0.12228	0.3492	0.19933
1e+13	18.68	19.332	20.395	0.73946	18.507	19.477	20.395	0.78701	-0.1729	0.1443	0.5653	0.3164

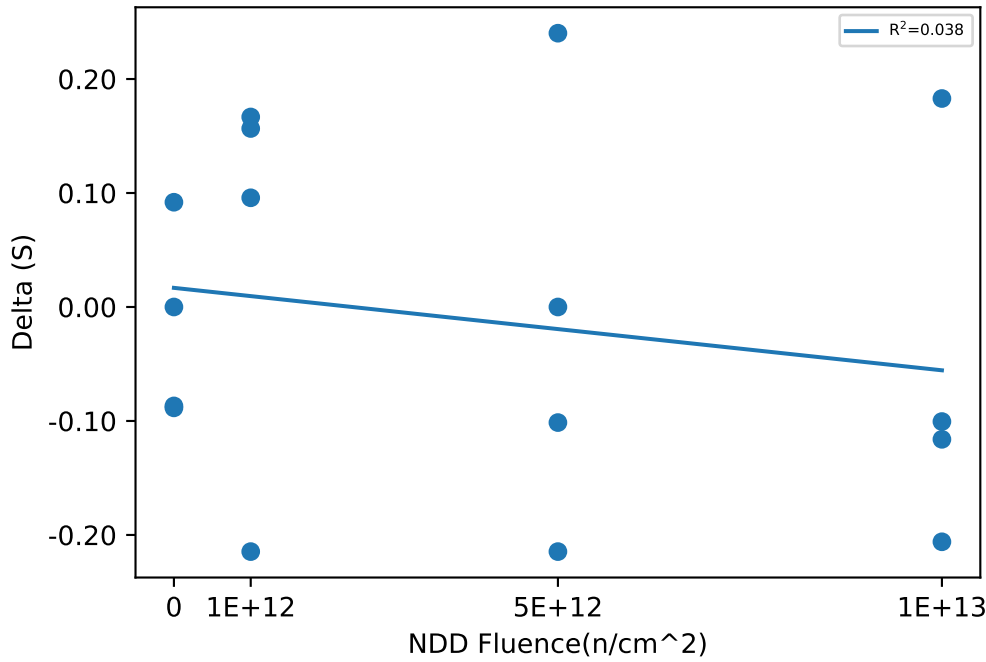
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	20.82	20.606	-0.2146
101	1e+12	NDD	17.61	17.767	0.1566
102	1e+12	NDD	19.5	19.596	0.0958
103	1e+12	NDD	18.171	18.337	0.1667
104	5e+12	NDD	18.945	18.945	0
105	5e+12	NDD	17.767	18.007	0.2402
106	5e+12	NDD	20.82	20.606	-0.2146
107	5e+12	NDD	20.189	20.088	-0.1014
108	1e+13	NDD	19.036	19.219	0.1829
109	1e+13	NDD	20.395	20.189	-0.206
110	1e+13	NDD	21.608	21.492	-0.1161
111	1e+13	NDD	20.088	19.988	-0.1005
732	0	CORRELATION	19.127	19.219	0.0919
742	0	CORRELATION	19.888	19.888	0
879	0	CORRELATION	18.68	18.593	-0.0868
880	0	CORRELATION	18.856	18.768	-0.0885

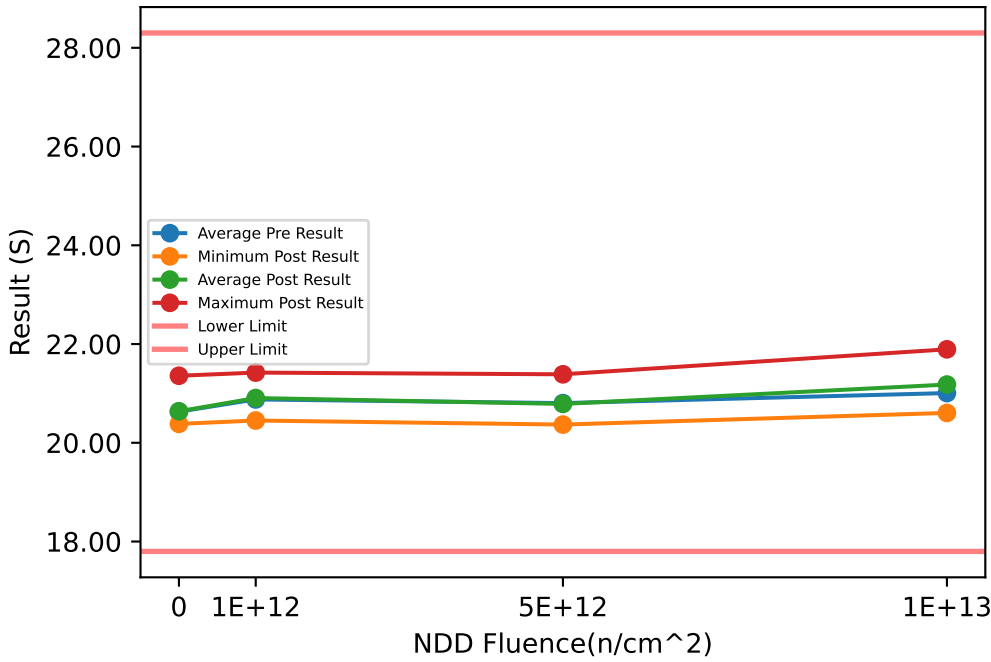
NDD vs Post - Pre Exposure Delta



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	18.68	19.138	19.888	0.53298	18.593	19.117	19.888	0.57781	-0.0885	-0.02085	0.0919	0.085777
1e+12	17.61	19.025	20.82	1.4354	17.767	19.076	20.606	1.2741	-0.2146	0.051125	0.1667	0.1799
5e+12	17.767	19.43	20.82	1.3554	18.007	19.412	20.606	1.1653	-0.2146	-0.01895	0.2402	0.19373
1e+13	19.036	20.282	21.608	1.0586	19.219	20.222	21.492	0.94438	-0.206	-0.059925	0.1829	0.16843

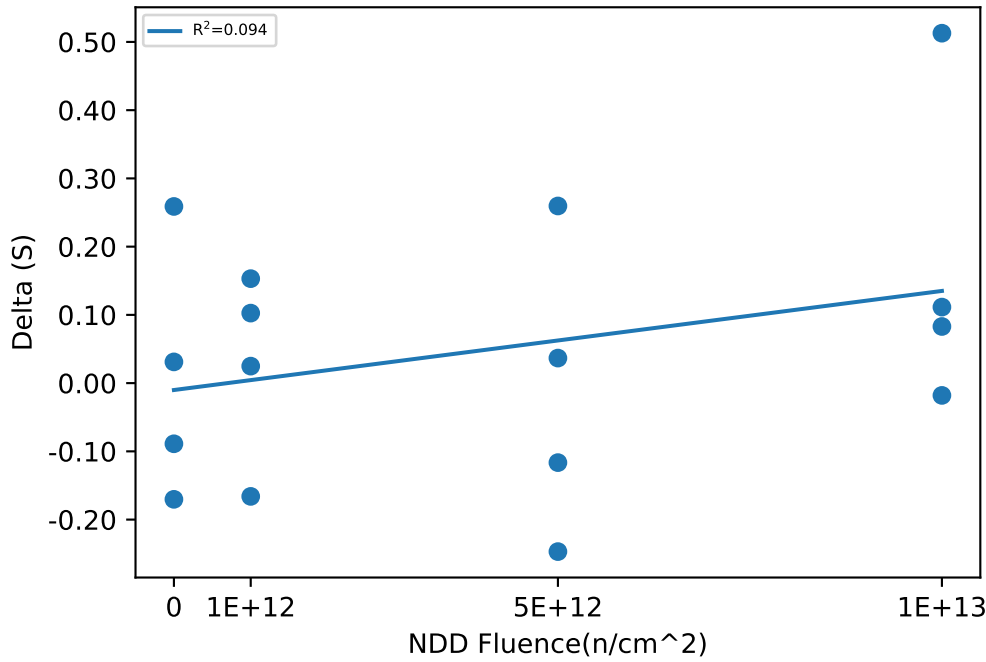
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	21.587	21.421	-0.166
101	1e+12	NDD	20.298	20.451	0.1531
102	1e+12	NDD	21.144	21.169	0.0249
103	1e+12	NDD	20.482	20.585	0.1026
104	5e+12	NDD	20.616	20.369	-0.2469
105	5e+12	NDD	20.181	20.44	0.2596
106	5e+12	NDD	21.35	21.387	0.0367
107	5e+12	NDD	21.067	20.951	-0.1165
108	1e+13	NDD	20.623	20.605	-0.018
109	1e+13	NDD	20.764	21.277	0.5128
110	1e+13	NDD	21.81	21.893	0.083
111	1e+13	NDD	20.83	20.942	0.1114
732	0	CORRELATION	20.472	20.383	-0.0889
742	0	CORRELATION	21.099	21.358	0.2589
879	0	CORRELATION	20.382	20.413	0.0311
880	0	CORRELATION	20.568	20.398	-0.1703

NDD vs Post - Pre Exposure Delta

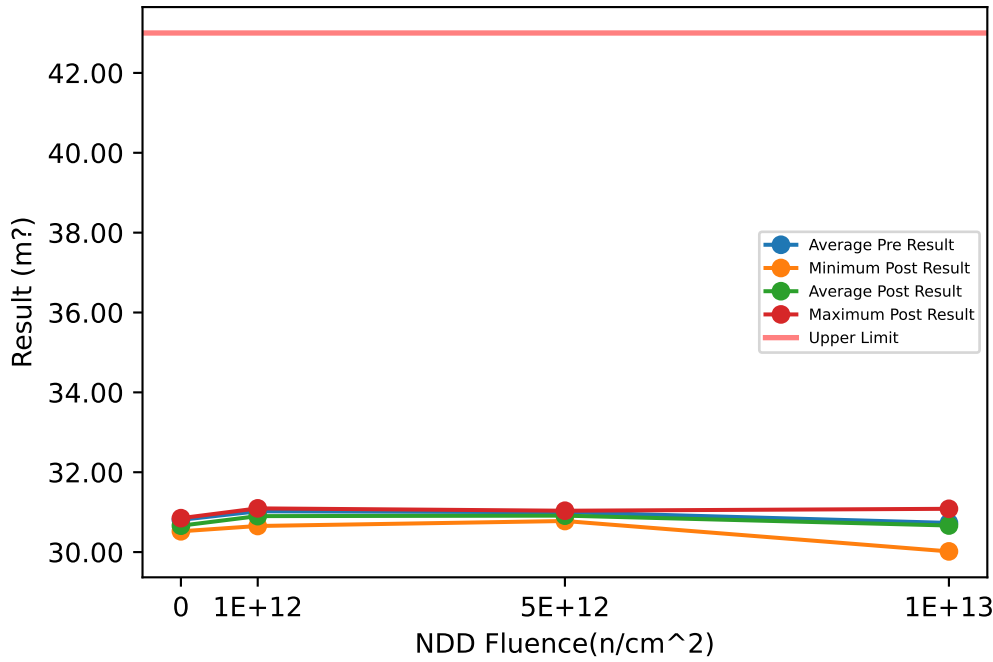


Test Statistics (S)

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	20.382	20.63	21.099	0.32158	20.383	20.638	21.358	0.48011	-0.1703	0.0077	0.2589	0.18678
1e+12	20.298	20.878	21.587	0.59657	20.451	20.907	21.421	0.46383	-0.166	0.02865	0.1531	0.14007
5e+12	20.181	20.804	21.35	0.51373	20.369	20.787	21.387	0.4768	-0.2469	-0.016775	0.2596	0.21767
1e+13	20.623	21.007	21.81	0.54227	20.605	21.179	21.893	0.54929	-0.018	0.1723	0.5128	0.23369

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

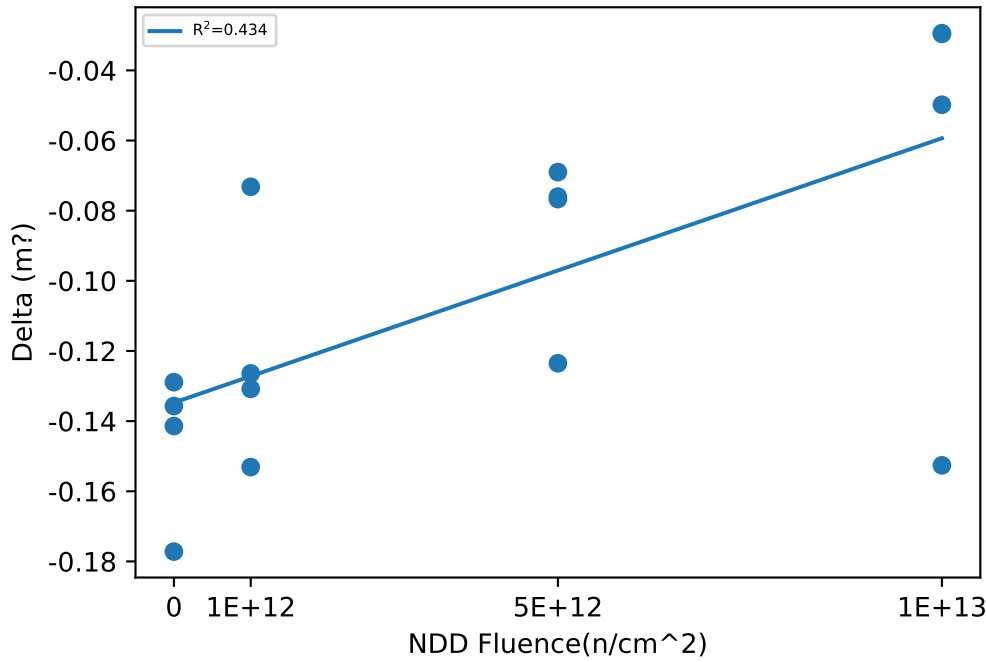
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	31.226	31.095	-0.1308
101	1e+12	NDD	31.072	30.999	-0.0732
102	1e+12	NDD	31.008	30.855	-0.1531
103	1e+12	NDD	30.78	30.654	-0.1264
104	5e+12	NDD	30.917	30.84	-0.0767
105	5e+12	NDD	30.847	30.778	-0.069
106	5e+12	NDD	31.072	30.996	-0.076
107	5e+12	NDD	31.16	31.036	-0.1235
108	1e+13	NDD	30.17	30.017	-0.1526
109	1e+13	NDD	30.584	30.555	-0.0294
110	1e+13	NDD	31.035	31.006	-0.0296
111	1e+13	NDD	31.134	31.084	-0.0498
732	0	CORRELATION	30.991	30.849	-0.1414
742	0	CORRELATION	30.68	30.552	-0.1289
879	0	CORRELATION	30.656	30.521	-0.1357
880	0	CORRELATION	30.901	30.724	-0.1772

NDD vs Post - Pre Exposure Delta

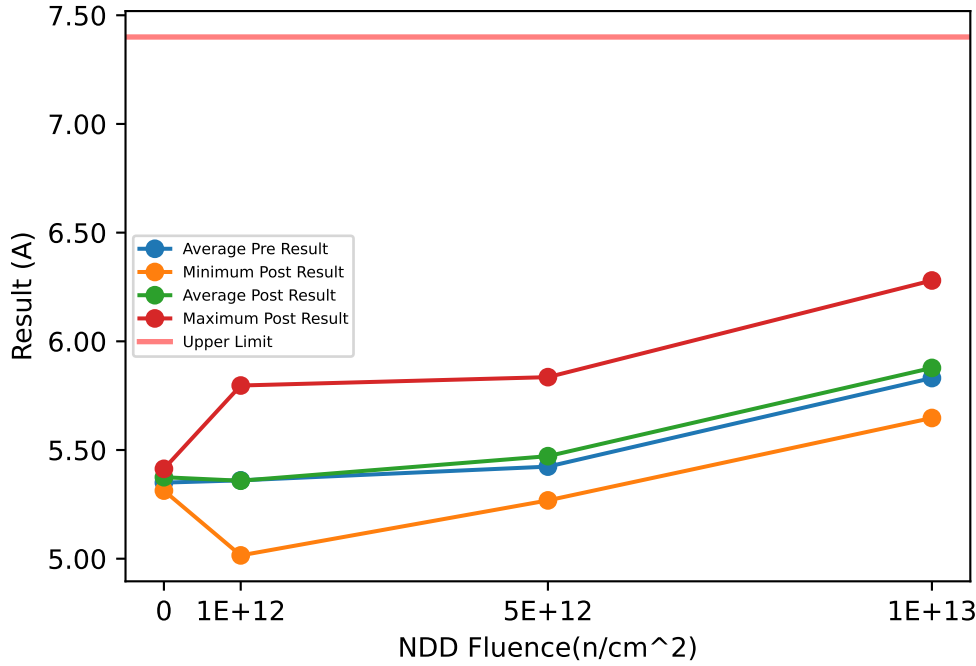


Test Statistics (m?)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	30.656	30.807	30.991	0.16475	30.521	30.661	30.849	0.15405	-0.1772	-0.1458	-0.1289	0.021548
1e+12	30.78	31.021	31.226	0.18516	30.654	30.901	31.095	0.19196	-0.1531	-0.12088	-0.0732	0.033864
5e+12	30.847	30.999	31.16	0.14243	30.778	30.913	31.036	0.12312	-0.1235	-0.0863	-0.069	0.025042
1e+13	30.17	30.731	31.134	0.44384	30.017	30.665	31.084	0.49093	-0.1526	-0.06535	-0.0294	0.058949

Device Test: 20.157 THRESHOLD|RISE/SW/14/////@HIGH_SIDE_CURR_LIM_6A_PLST

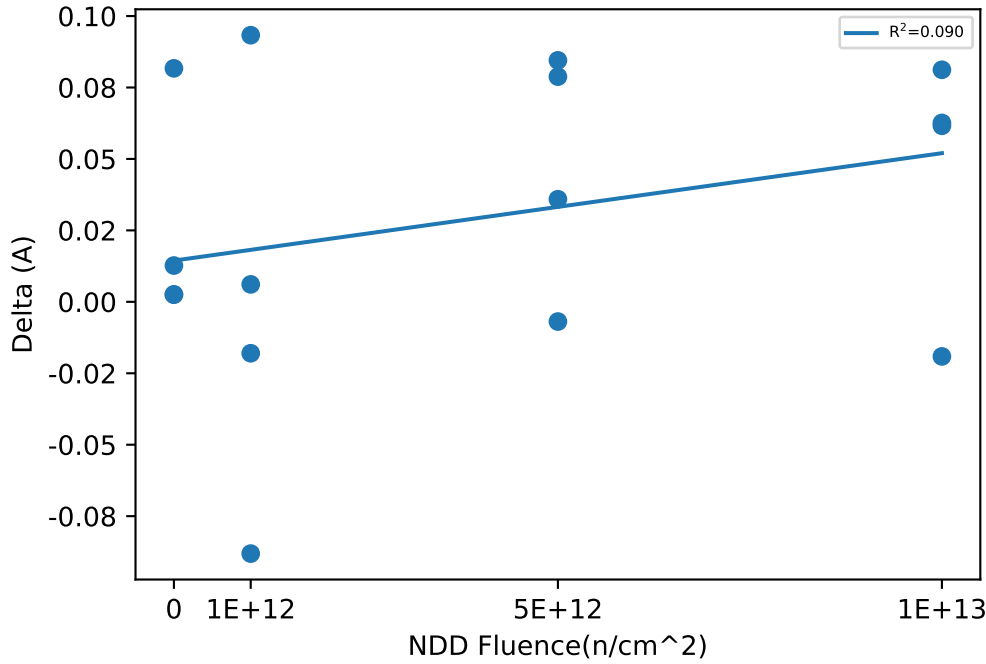
NDD vs Result Stats



Test Results (Upper Limit = 7.4 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5.8848	5.7967	-0.0881
101	1e+12	NDD	4.9386	5.0319	0.0933
102	1e+12	NDD	5.6092	5.5912	-0.018
103	1e+12	NDD	5.0091	5.0152	0.0061
104	5e+12	NDD	5.4281	5.5069	0.0788
105	5e+12	NDD	5.1837	5.2682	0.0845
106	5e+12	NDD	5.8421	5.8352	-0.0069
107	5e+12	NDD	5.2404	5.2763	0.0359
108	1e+13	NDD	5.5847	5.6473	0.0626
109	1e+13	NDD	5.7925	5.8737	0.0812
110	1e+13	NDD	6.2183	6.2799	0.0616
111	1e+13	NDD	5.7286	5.7095	-0.0191
732	0	CORRELATION	5.4109	5.4134	0.0025
742	0	CORRELATION	5.4008	5.4034	0.0026
879	0	CORRELATION	5.2316	5.3133	0.0817
880	0	CORRELATION	5.3565	5.3692	0.0127

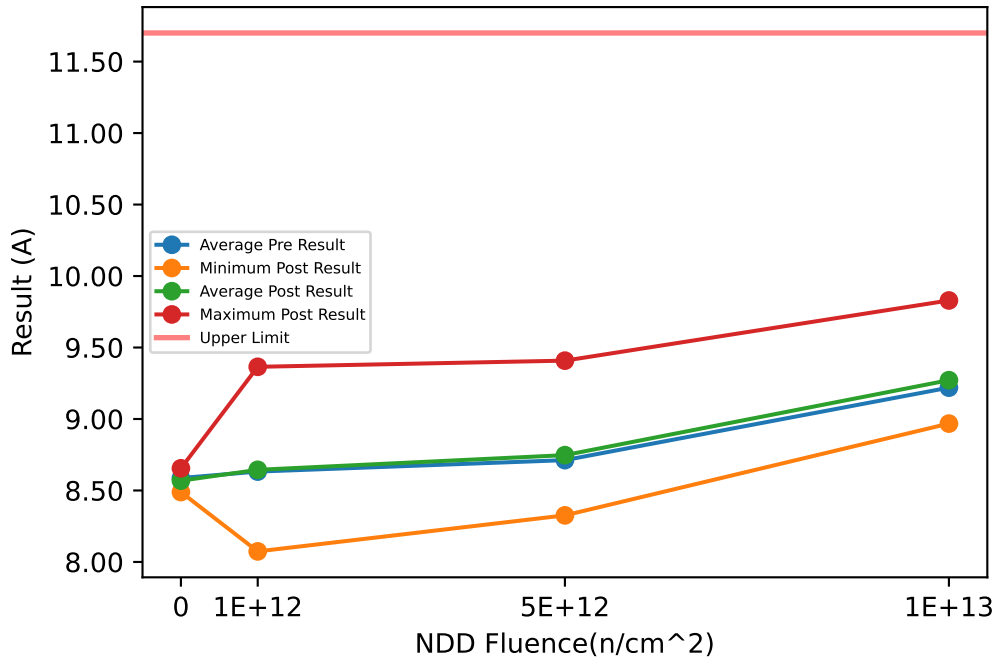
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.2316	5.3499	5.4109	0.082361	5.3133	5.3748	5.4134	0.045172	0.0025	0.024875	0.0817	0.038184
1e+12	4.9386	5.3604	5.8848	0.46124	5.0152	5.3588	5.7967	0.3961	-0.0881	-0.001675	0.0933	0.07487
5e+12	5.1837	5.4236	5.8421	0.29792	5.2682	5.4717	5.8352	0.26644	-0.0069	0.048075	0.0845	0.042588
1e+13	5.5847	5.831	6.2183	0.27242	5.6473	5.8776	6.2799	0.2847	-0.0191	0.046575	0.0812	0.044701

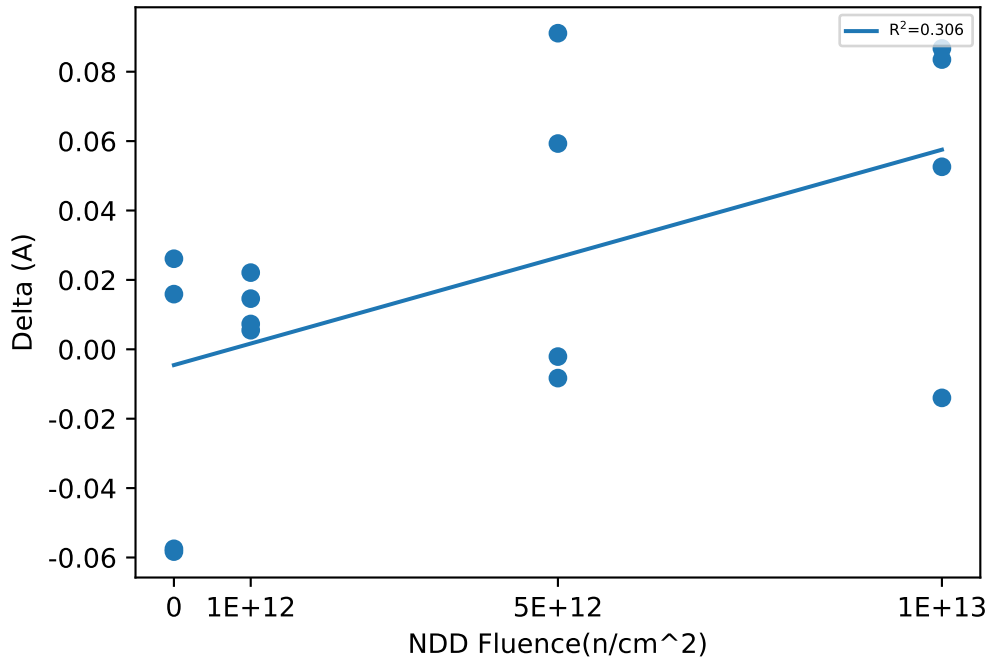
NDD vs Result Stats



Test Results (Upper Limit = 11.7 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	9.3577	9.365	0.0073
101	1e+12	NDD	8.0593	8.0739	0.0146
102	1e+12	NDD	8.9488	8.9543	0.0055
103	1e+12	NDD	8.1627	8.1848	0.0221
104	5e+12	NDD	8.7989	8.7906	-0.0083
105	5e+12	NDD	8.2348	8.3259	0.0911
106	5e+12	NDD	9.4103	9.4082	-0.0021
107	5e+12	NDD	8.4048	8.4641	0.0593
108	1e+13	NDD	8.8811	8.9678	0.0867
109	1e+13	NDD	9.0962	9.1797	0.0835
110	1e+13	NDD	9.8431	9.8291	-0.014
111	1e+13	NDD	9.0568	9.1094	0.0526
732	0	CORRELATION	8.6839	8.6256	-0.0583
742	0	CORRELATION	8.6291	8.6552	0.0261
879	0	CORRELATION	8.473	8.4889	0.0159
880	0	CORRELATION	8.5624	8.5049	-0.0575

NDD vs Post - Pre Exposure Delta

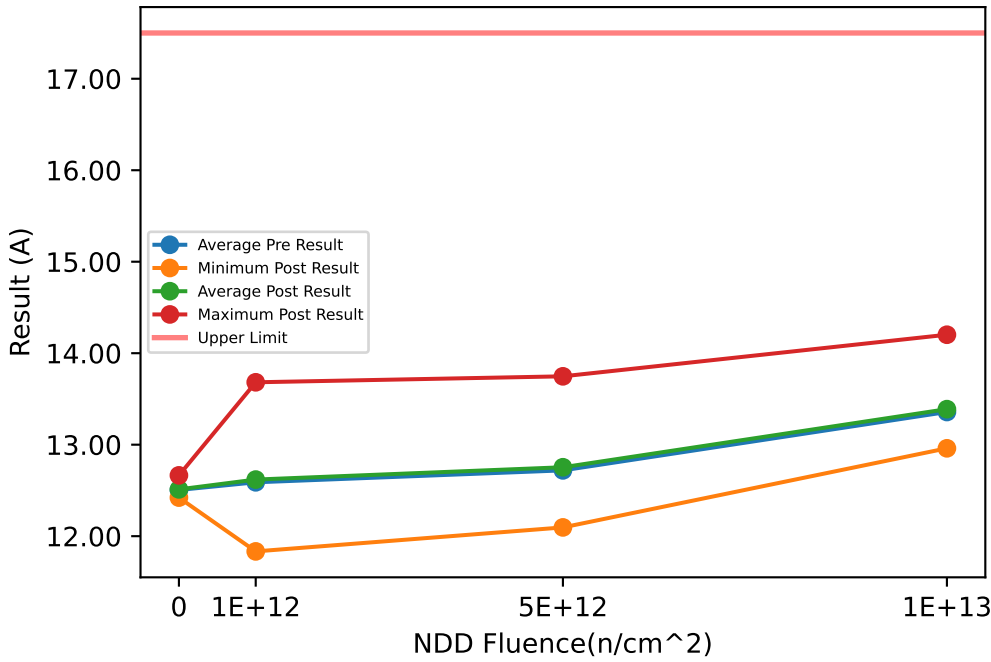


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.473	8.5871	8.6839	0.090854	8.4889	8.5686	8.6552	0.083981	-0.0583	-0.01845	0.0261	0.045744
1e+12	8.0593	8.6321	9.3577	0.62589	8.0739	8.6445	9.365	0.61968	0.0055	0.012375	0.0221	0.0075839
5e+12	8.2348	8.7122	9.4103	0.52194	8.3259	8.7472	9.4082	0.48182	-0.0083	0.035	0.0911	0.048267
1e+13	8.8811	9.2193	9.8431	0.42625	8.9678	9.2715	9.8291	0.38204	-0.014	0.0522	0.0867	0.046735

Device Test: 20.159 THRESHOLD|RISE/SW/14/////@HIGH_SIDE_CURR_LIM_13A_PLST

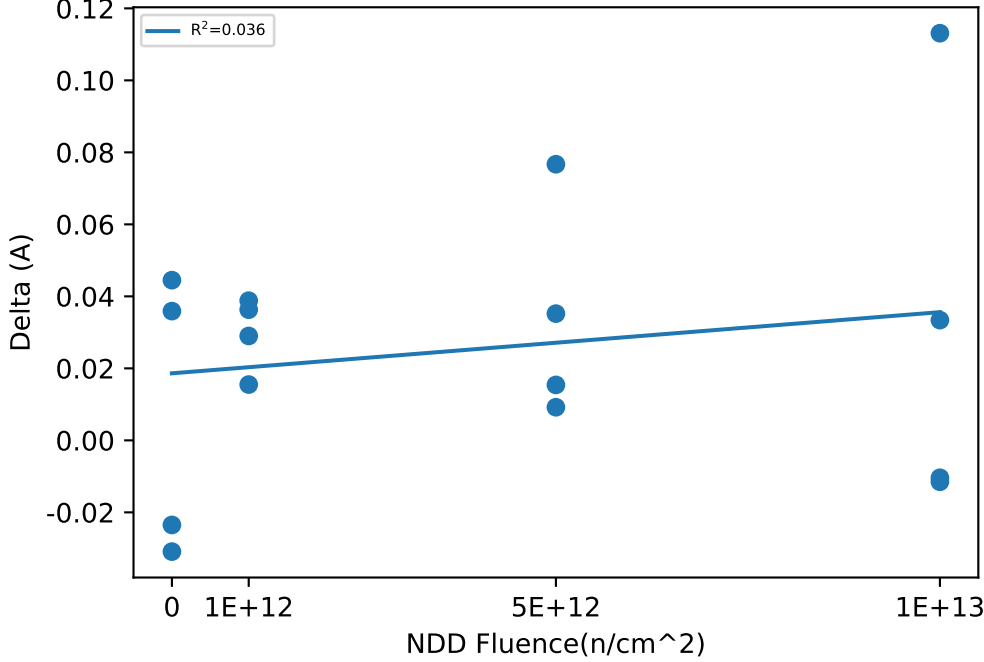
NDD vs Result Stats



Test Results (Upper Limit = 17.5 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	13.643	13.682	0.0388
101	1e+12	NDD	11.818	11.834	0.0155
102	1e+12	NDD	12.865	12.894	0.029
103	1e+12	NDD	12.029	12.065	0.0363
104	5e+12	NDD	12.81	12.825	0.0154
105	5e+12	NDD	12.019	12.096	0.0767
106	5e+12	NDD	13.712	13.747	0.0352
107	5e+12	NDD	12.336	12.345	0.0092
108	1e+13	NDD	12.847	12.96	0.1131
109	1e+13	NDD	13.144	13.178	0.0334
110	1e+13	NDD	14.213	14.202	-0.0115
111	1e+13	NDD	13.224	13.214	-0.0104
732	0	CORRELATION	12.629	12.665	0.0359
742	0	CORRELATION	12.468	12.513	0.0445
879	0	CORRELATION	12.478	12.447	-0.0309
880	0	CORRELATION	12.445	12.422	-0.0235

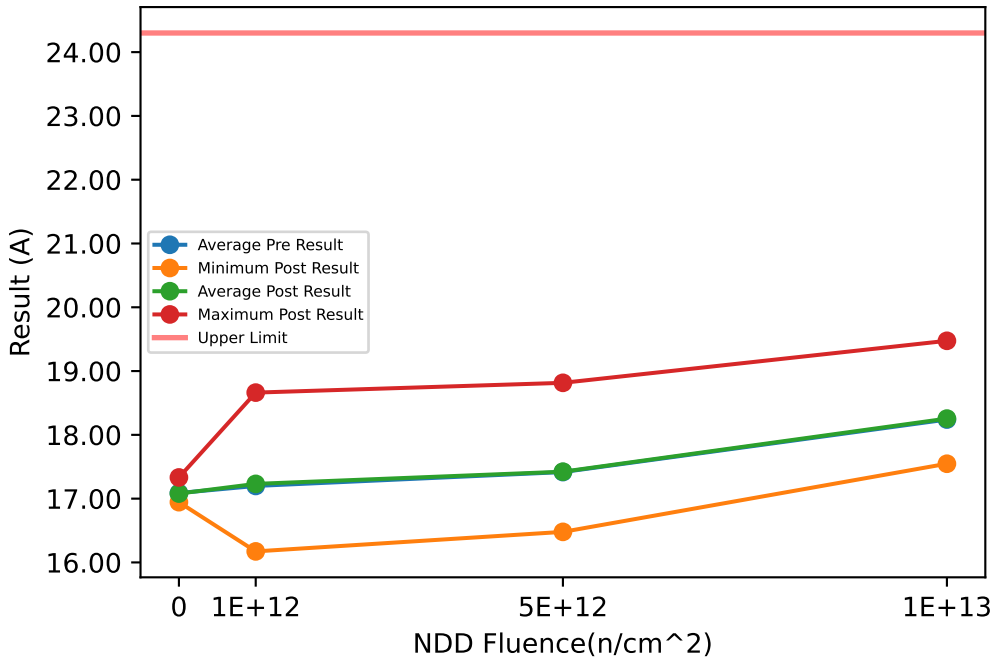
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.445	12.505	12.629	0.083537	12.422	12.512	12.665	0.10898	-0.0309	0.0065	0.0445	0.039188
1e+12	11.818	12.589	13.643	0.83581	11.834	12.619	13.682	0.84249	0.0155	0.0299	0.0388	0.010462
5e+12	12.019	12.719	13.712	0.73736	12.096	12.753	13.747	0.7285	0.0092	0.034125	0.0767	0.030472
1e+13	12.847	13.357	14.213	0.59334	12.96	13.388	14.202	0.55375	-0.0115	0.03115	0.1131	0.058499

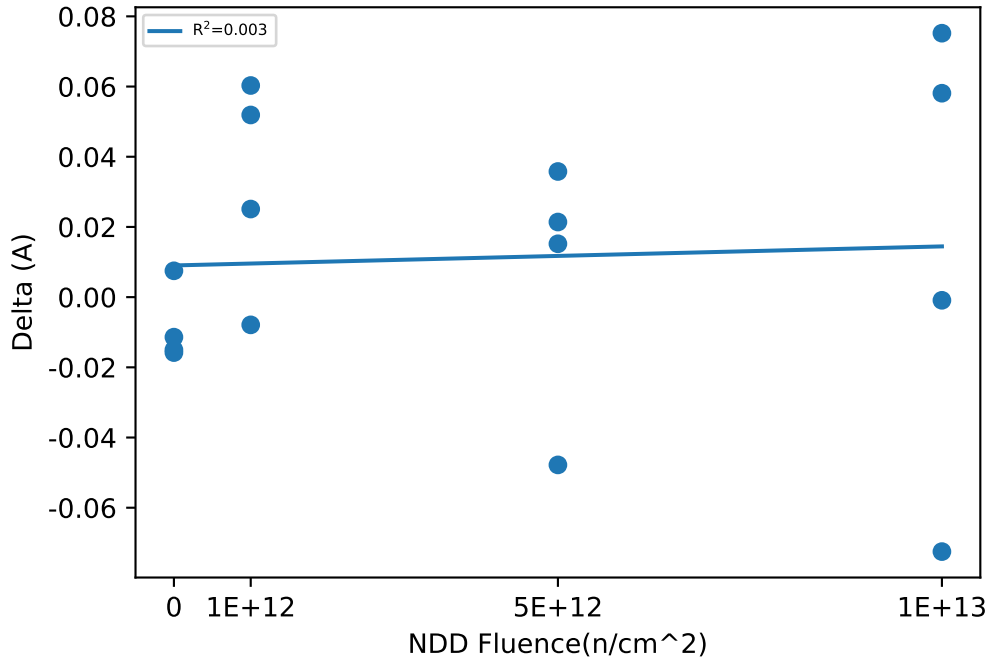
NDD vs Result Stats



Test Results (Upper Limit = 24.3 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	18.67	18.662	-0.0079
101	1e+12	NDD	16.148	16.173	0.0251
102	1e+12	NDD	17.567	17.628	0.0603
103	1e+12	NDD	16.411	16.462	0.0519
104	5e+12	NDD	17.542	17.494	-0.0478
105	5e+12	NDD	16.458	16.479	0.0214
106	5e+12	NDD	18.78	18.816	0.0358
107	5e+12	NDD	16.886	16.901	0.0152
108	1e+13	NDD	17.489	17.547	0.0581
109	1e+13	NDD	17.928	17.927	-0.0009
110	1e+13	NDD	19.399	19.474	0.0752
111	1e+13	NDD	18.144	18.071	-0.0725
732	0	CORRELATION	17.347	17.332	-0.015
742	0	CORRELATION	17.096	17.081	-0.0158
879	0	CORRELATION	16.956	16.945	-0.0114
880	0	CORRELATION	16.953	16.961	0.0075

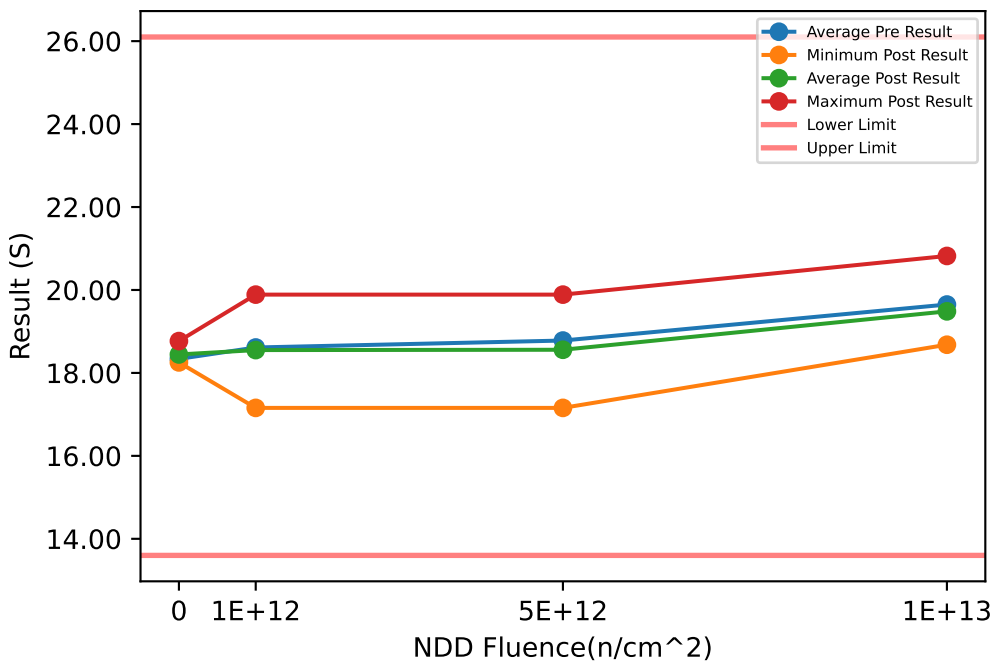
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	16.953	17.088	17.347	0.18508	16.945	17.08	17.332	0.17897	-0.0158	-0.008675	0.0075	0.010952
1e+12	16.148	17.199	18.67	1.1585	16.173	17.231	18.662	1.1425	-0.0079	0.03235	0.0603	0.030746
5e+12	16.458	17.416	18.78	1.0124	16.479	17.423	18.816	1.0178	-0.0478	0.00615	0.0358	0.036987
1e+13	17.489	18.24	19.399	0.81946	17.547	18.255	19.474	0.84253	-0.0725	0.014975	0.0752	0.06681

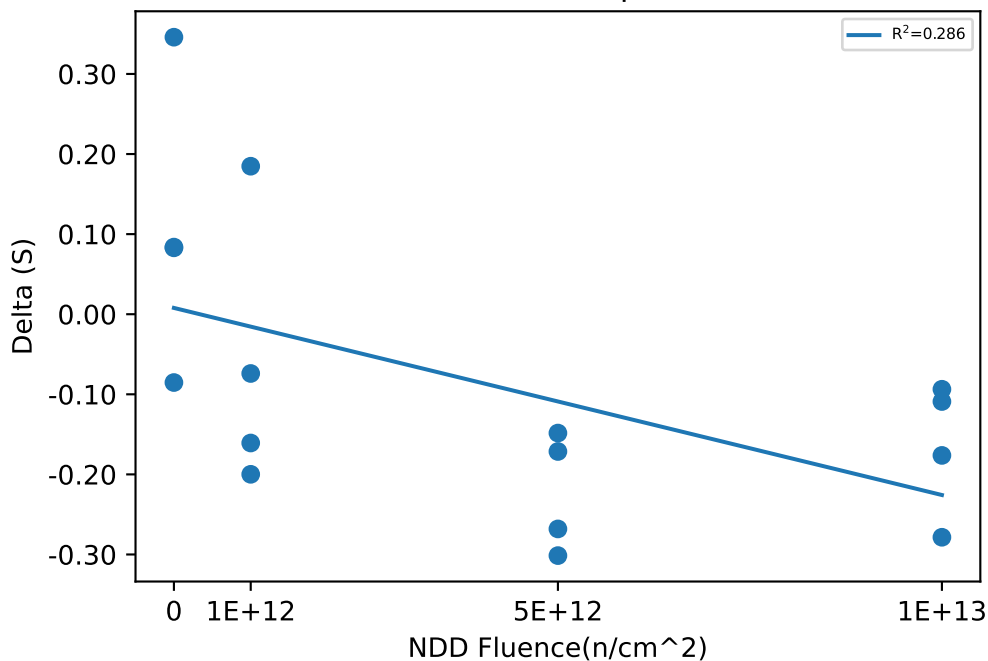
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	20.088	19.888	-0.1999
101	1e+12	NDD	17.231	17.157	-0.074
102	1e+12	NDD	19.127	19.312	0.1848
103	1e+12	NDD	18.007	17.846	-0.1608
104	5e+12	NDD	18.593	18.422	-0.1714
105	5e+12	NDD	17.305	17.157	-0.1484
106	5e+12	NDD	20.189	19.888	-0.3014
107	5e+12	NDD	19.036	18.768	-0.2681
108	1e+13	NDD	18.856	18.68	-0.1763
109	1e+13	NDD	19.405	19.312	-0.0937
110	1e+13	NDD	20.929	20.82	-0.109
111	1e+13	NDD	19.405	19.127	-0.2785
732	0	CORRELATION	18.171	18.253	0.0829
742	0	CORRELATION	18.422	18.768	0.3459
879	0	CORRELATION	18.253	18.337	0.0838
880	0	CORRELATION	18.507	18.422	-0.0853

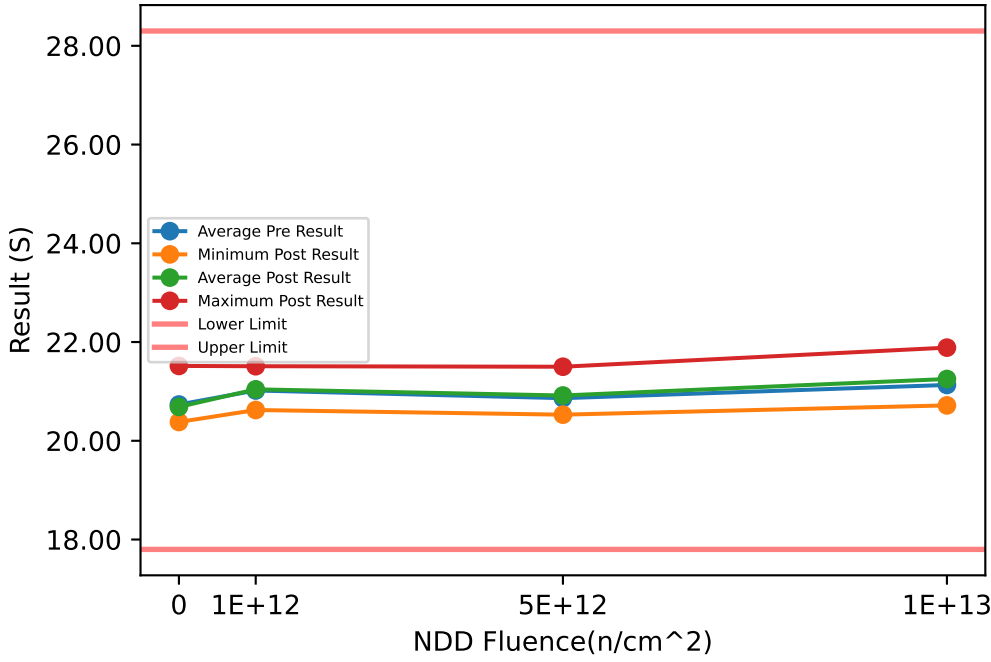
NDD vs Post - Pre Exposure Delta



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	18.171	18.338	18.507	0.1536	18.253	18.445	18.768	0.22579	-0.0853	0.10682	0.3459	0.17811
1e+12	17.231	18.613	20.088	1.254	17.157	18.551	19.888	1.2659	-0.1999	-0.062475	0.1848	0.17304
5e+12	17.305	18.781	20.189	1.1919	17.157	18.558	19.888	1.1247	-0.3014	-0.22232	-0.1484	0.073951
1e+13	18.856	19.649	20.929	0.89193	18.68	19.485	20.82	0.92911	-0.2785	-0.16438	-0.0937	0.084119

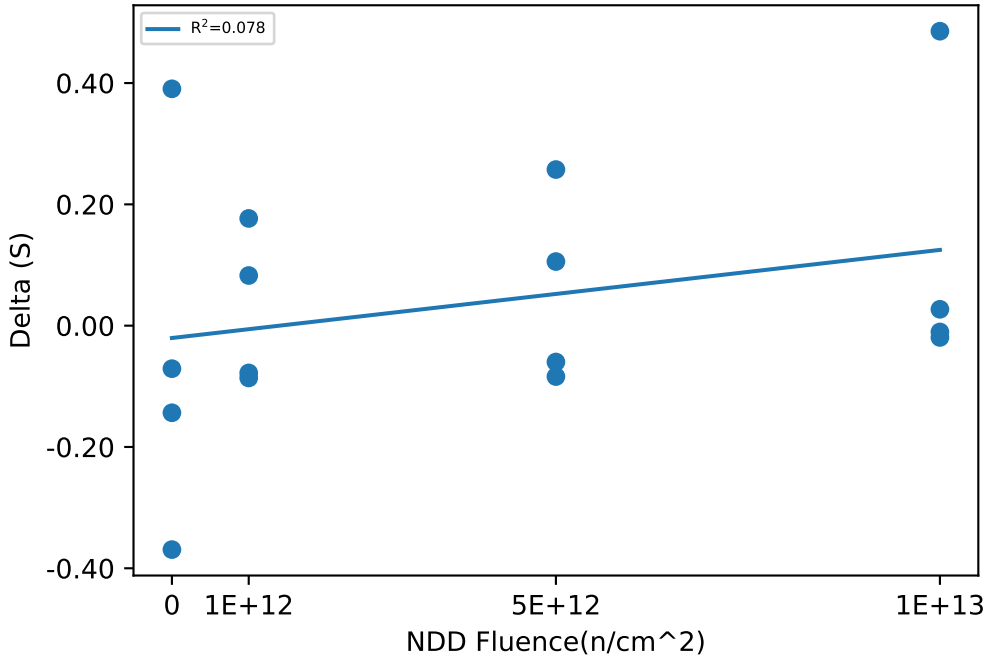
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	21.588	21.51	-0.0779
101	1e+12	NDD	20.541	20.623	0.0827
102	1e+12	NDD	21.316	21.23	-0.0862
103	1e+12	NDD	20.629	20.806	0.1768
104	5e+12	NDD	20.613	20.529	-0.0839
105	5e+12	NDD	20.304	20.561	0.2574
106	5e+12	NDD	21.394	21.5	0.1057
107	5e+12	NDD	21.139	21.079	-0.0599
108	1e+13	NDD	20.689	20.716	0.027
109	1e+13	NDD	20.928	21.414	0.4855
110	1e+13	NDD	21.906	21.887	-0.0194
111	1e+13	NDD	20.999	20.988	-0.0104
732	0	CORRELATION	20.532	20.461	-0.0709
742	0	CORRELATION	21.125	21.516	0.3905
879	0	CORRELATION	20.53	20.387	-0.1436
880	0	CORRELATION	20.75	20.38	-0.3692

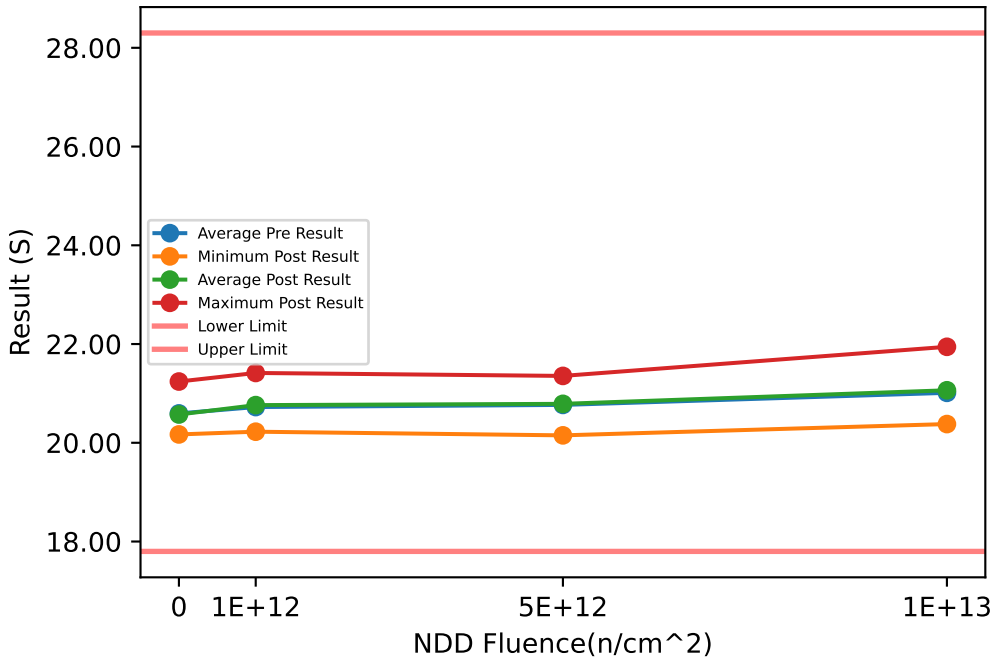
NDD vs Post - Pre Exposure Delta



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	20.53	20.734	21.125	0.28046	20.38	20.686	21.516	0.55455	-0.3692	-0.0483	0.3905	0.31891
1e+12	20.541	21.018	21.588	0.51404	20.623	21.042	21.51	0.4022	-0.0862	0.02385	0.1768	0.12822
5e+12	20.304	20.863	21.394	0.49462	20.529	20.917	21.5	0.4631	-0.0839	0.054825	0.2574	0.1592
1e+13	20.689	21.131	21.906	0.53361	20.716	21.251	21.887	0.51163	-0.0194	0.12068	0.4855	0.24405

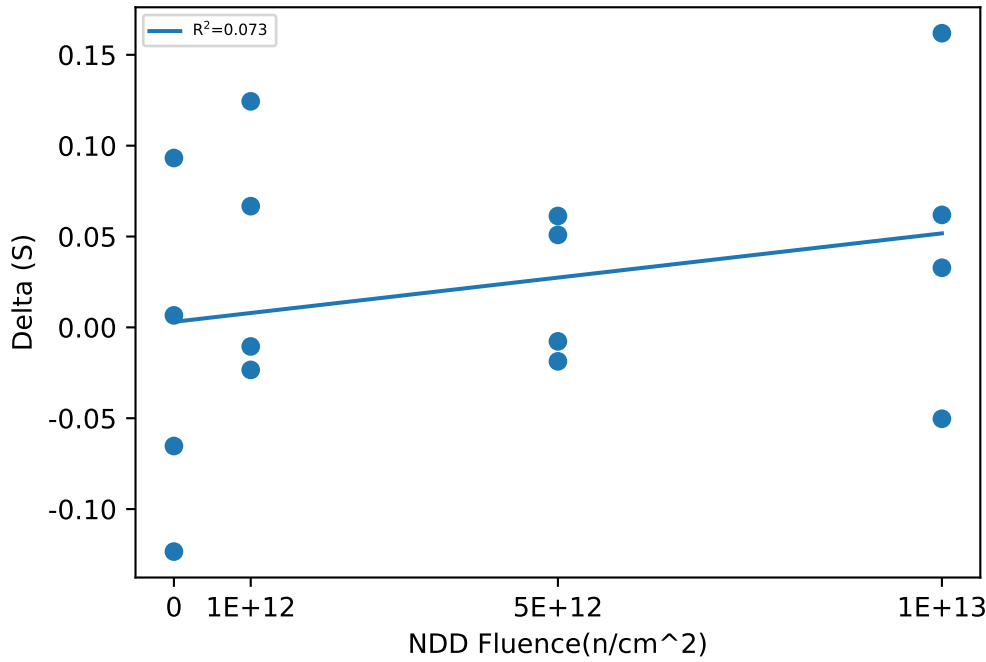
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	21.438	21.414	-0.0234
101	1e+12	NDD	20.1	20.224	0.1244
102	1e+12	NDD	21.091	21.08	-0.0105
103	1e+12	NDD	20.266	20.333	0.0667
104	5e+12	NDD	20.342	20.323	-0.0187
105	5e+12	NDD	20.158	20.15	-0.0077
106	5e+12	NDD	21.293	21.354	0.0613
107	5e+12	NDD	21.275	21.326	0.0509
108	1e+13	NDD	20.429	20.379	-0.0503
109	1e+13	NDD	20.927	21.089	0.1619
110	1e+13	NDD	21.911	21.944	0.0328
111	1e+13	NDD	20.78	20.842	0.0619
732	0	CORRELATION	20.429	20.305	-0.1234
742	0	CORRELATION	21.147	21.241	0.0932
879	0	CORRELATION	20.163	20.169	0.0066
880	0	CORRELATION	20.642	20.576	-0.0653

NDD vs Post - Pre Exposure Delta

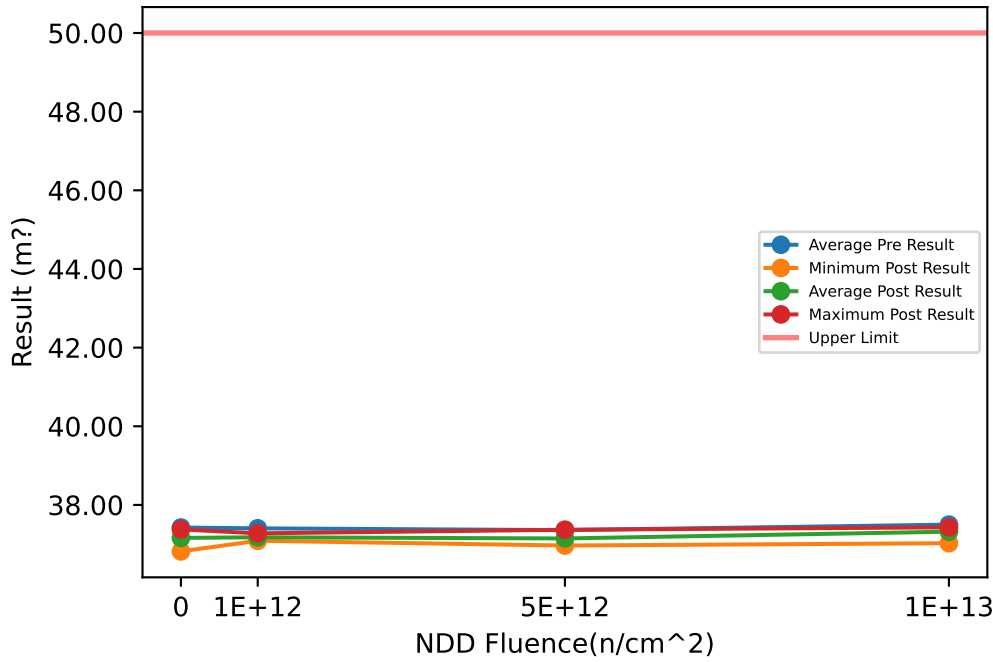


Test Statistics (S)

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	20.163	20.595	21.147	0.41716	20.169	20.573	21.241	0.47629	-0.1234	-0.022225	0.0932	0.093534
1e+12	20.1	20.724	21.438	0.64354	20.224	20.763	21.414	0.57722	-0.0234	0.0393	0.1244	0.069292
5e+12	20.158	20.767	21.293	0.6016	20.15	20.788	21.354	0.64086	-0.0187	0.02145	0.0613	0.040485
1e+13	20.429	21.012	21.911	0.63478	20.379	21.063	21.944	0.65656	-0.0503	0.051575	0.1619	0.087577

Device Test: 20.3 LEVEL|HIGH SIDE/SW/4.5/12///@R_HIGH SIDE_4V_25C_PLST

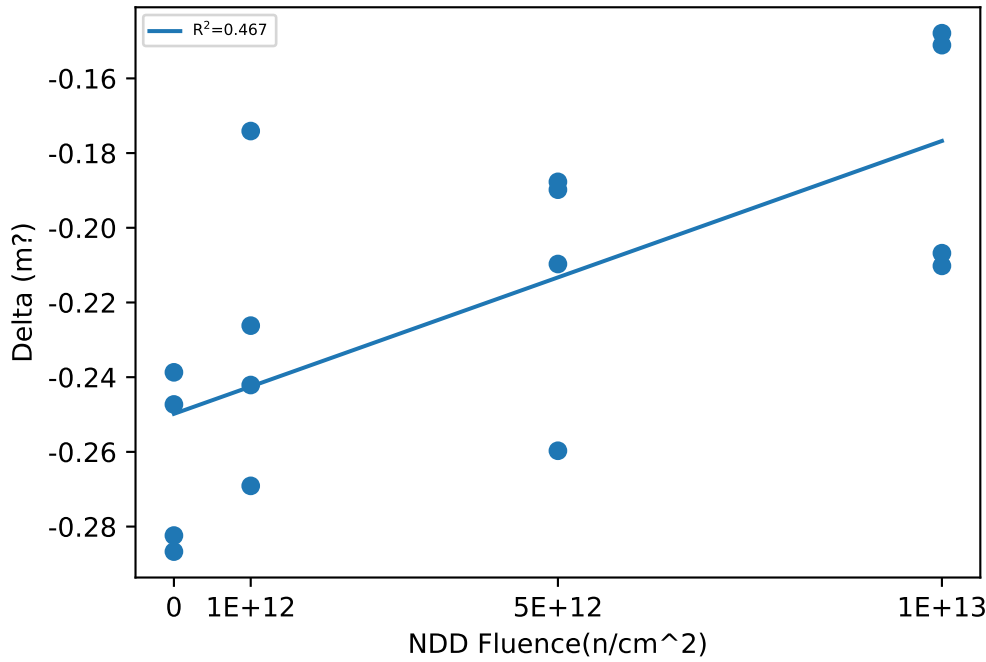
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	37.489	37.247	-0.2421
101	1e+12	NDD	37.267	37.093	-0.1741
102	1e+12	NDD	37.547	37.277	-0.2691
103	1e+12	NDD	37.315	37.089	-0.2262
104	5e+12	NDD	37.293	37.105	-0.1877
105	5e+12	NDD	37.177	36.968	-0.2097
106	5e+12	NDD	37.337	37.148	-0.1898
107	5e+12	NDD	37.629	37.369	-0.2597
108	1e+13	NDD	37.233	37.026	-0.2068
109	1e+13	NDD	37.55	37.402	-0.1479
110	1e+13	NDD	37.572	37.421	-0.1511
111	1e+13	NDD	37.64	37.43	-0.2102
732	0	CORRELATION	37.553	37.266	-0.2867
742	0	CORRELATION	37.617	37.378	-0.2387
879	0	CORRELATION	37.066	36.818	-0.2473
880	0	CORRELATION	37.465	37.182	-0.2824

NDD vs Post - Pre Exposure Delta

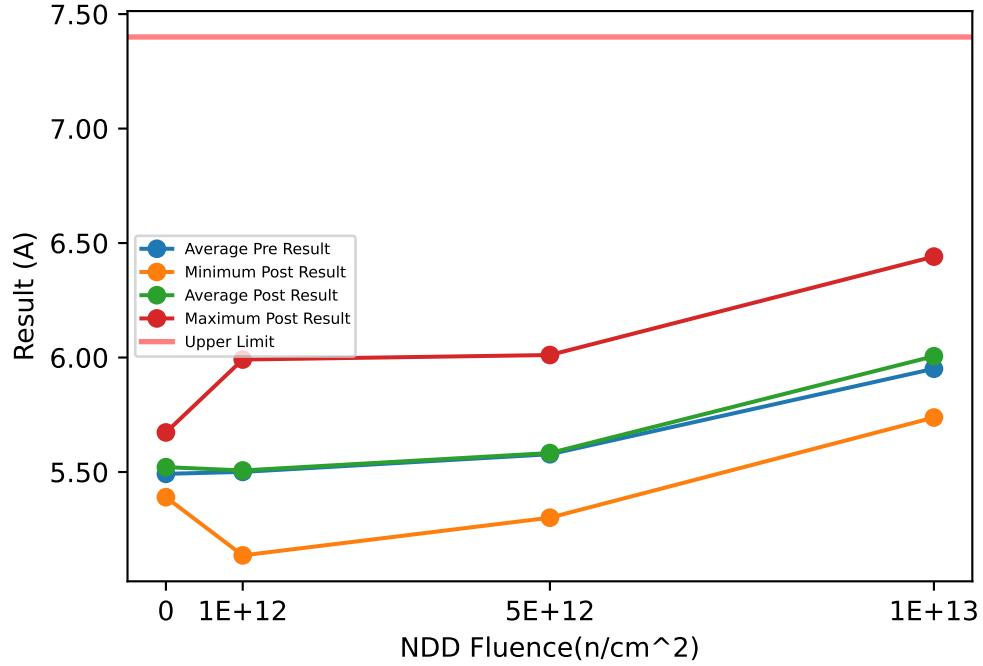


Test Statistics (m?)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	37.066	37.425	37.617	0.24748	36.818	37.161	37.378	0.24216	-0.2867	-0.26378	-0.2387	0.024308
1e+12	37.267	37.405	37.547	0.13425	37.089	37.177	37.277	0.099494	-0.2691	-0.22787	-0.1741	0.039985
5e+12	37.177	37.359	37.629	0.19192	36.968	37.147	37.369	0.16648	-0.2597	-0.21173	-0.1877	0.033484
1e+13	37.233	37.499	37.64	0.1812	37.026	37.32	37.43	0.19599	-0.2102	-0.179	-0.1479	0.034117

Device Test: 20.4 THRESHOLD|RISE/SW/4.5////@HIGH_SIDE_CURR_LIM_6A_PLST

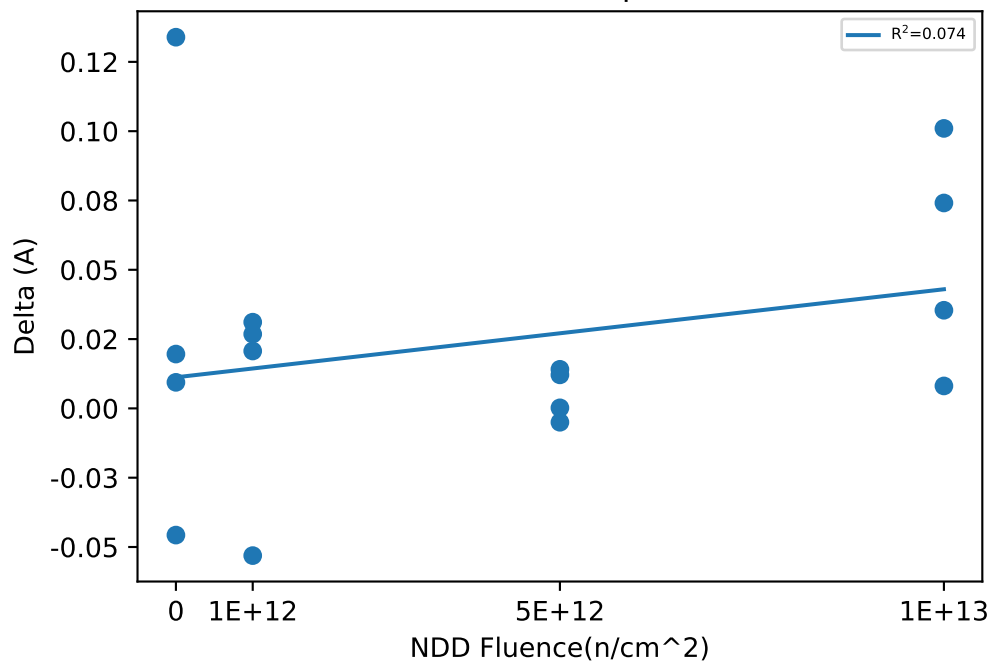
NDD vs Result Stats



Test Results (Upper Limit = 7.4 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5.9601	5.9912	0.0311
101	1e+12	NDD	5.1151	5.1358	0.0207
102	1e+12	NDD	5.7491	5.696	-0.0531
103	1e+12	NDD	5.1775	5.2043	0.0268
104	5e+12	NDD	5.6002	5.6004	0.0002
105	5e+12	NDD	5.2884	5.3005	0.0121
106	5e+12	NDD	5.9969	6.011	0.0141
107	5e+12	NDD	5.4247	5.4197	-0.005
108	1e+13	NDD	5.6371	5.7381	0.101
109	1e+13	NDD	5.9407	5.9761	0.0354
110	1e+13	NDD	6.3667	6.4408	0.0741
111	1e+13	NDD	5.8601	5.8682	0.0081
732	0	CORRELATION	5.5529	5.5623	0.0094
742	0	CORRELATION	5.5389	5.6728	0.1339
879	0	CORRELATION	5.3704	5.39	0.0196
880	0	CORRELATION	5.5058	5.4601	-0.0457

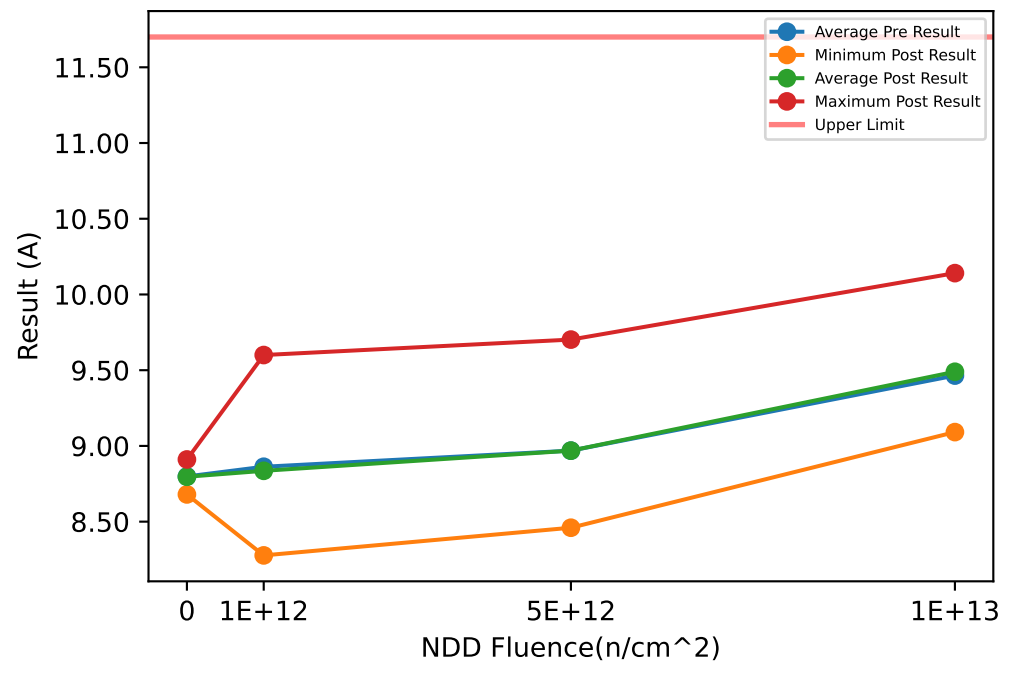
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.3704	5.492	5.5529	0.083437	5.39	5.5213	5.6728	0.12331	-0.0457	0.0293	0.1339	0.075402
1e+12	5.1151	5.5004	5.9601	0.41869	5.1358	5.5068	5.9912	0.40808	-0.0531	0.006375	0.0311	0.039879
5e+12	5.2884	5.5776	5.9969	0.30732	5.3005	5.5829	6.011	0.31089	-0.005	0.00535	0.0141	0.0092335
1e+13	5.6371	5.9512	6.3667	0.30535	5.7381	6.0058	6.4408	0.30589	0.0081	0.05465	0.101	0.041086

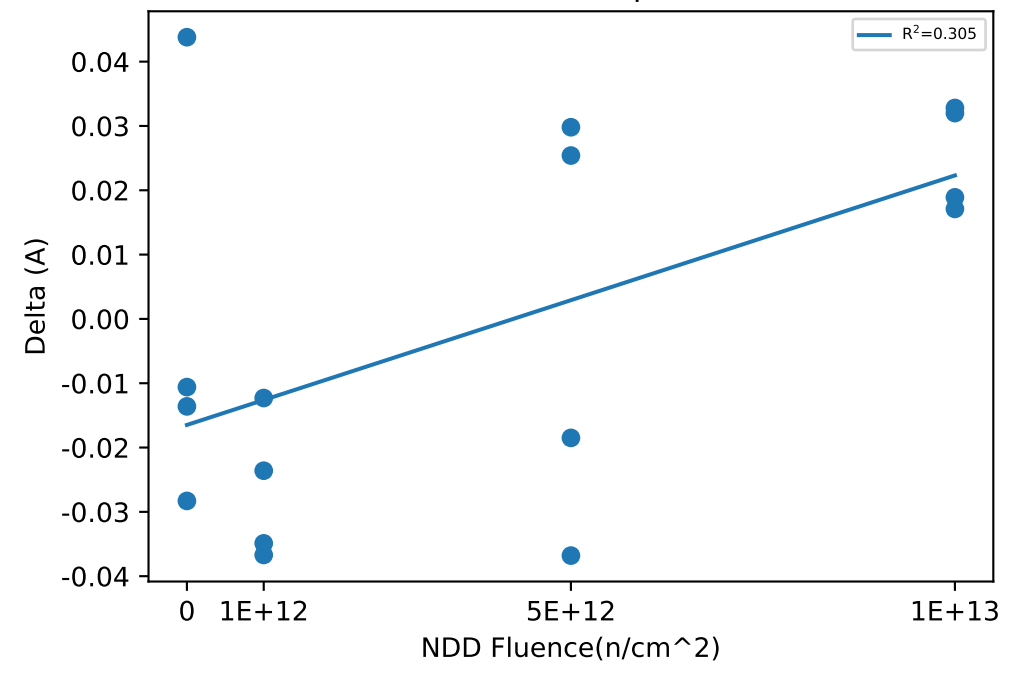
NDD vs Result Stats



Test Results (Upper Limit = 11.7 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	9.6124	9.6001	-0.0123
101	1e+12	NDD	8.3008	8.2772	-0.0236
102	1e+12	NDD	9.1118	9.0751	-0.0367
103	1e+12	NDD	8.425	8.3901	-0.0349
104	5e+12	NDD	8.9646	8.9944	0.0298
105	5e+12	NDD	8.4784	8.4599	-0.0185
106	5e+12	NDD	9.7389	9.7021	-0.0368
107	5e+12	NDD	8.6934	8.7188	0.0254
108	1e+13	NDD	9.0724	9.0913	0.0189
109	1e+13	NDD	9.3452	9.3772	0.032
110	1e+13	NDD	10.124	10.141	0.0171
111	1e+13	NDD	9.3165	9.3493	0.0328
732	0	CORRELATION	8.8887	8.8781	-0.0106
742	0	CORRELATION	8.8668	8.9106	0.0438
879	0	CORRELATION	8.7081	8.6798	-0.0283
880	0	CORRELATION	8.7307	8.7171	-0.0136

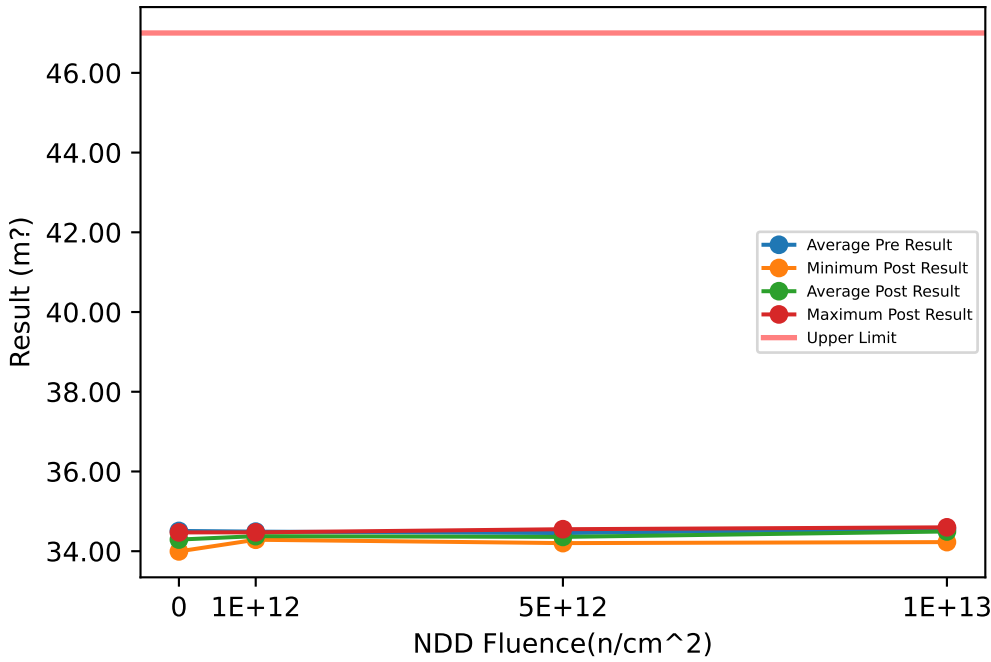
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.7081	8.7986	8.8887	0.092322	8.6798	8.7964	8.9106	0.11489	-0.0283	-0.002175	0.0438	0.031611
1e+12	8.3008	8.8625	9.6124	0.61412	8.2772	8.8356	9.6001	0.6197	-0.0367	-0.026875	-0.0123	0.011315
5e+12	8.4784	8.9688	9.7389	0.55058	8.4599	8.9688	9.7021	0.53537	-0.0368	-2.5e-05	0.0298	0.032811
1e+13	9.0724	9.4645	10.124	0.45627	9.0913	9.4897	10.141	0.45283	0.0171	0.0252	0.0328	0.0083526

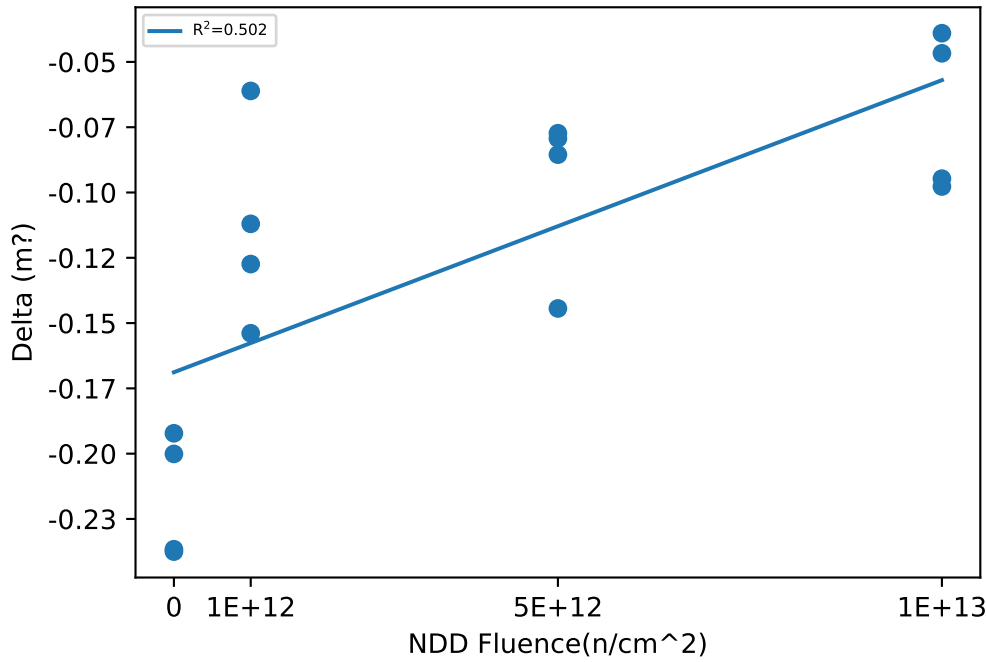
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	34.561	34.433	-0.1274
101	1e+12	NDD	34.378	34.317	-0.0611
102	1e+12	NDD	34.627	34.473	-0.1539
103	1e+12	NDD	34.399	34.287	-0.112
104	5e+12	NDD	34.398	34.318	-0.0793
105	5e+12	NDD	34.288	34.203	-0.0855
106	5e+12	NDD	34.438	34.361	-0.0773
107	5e+12	NDD	34.696	34.552	-0.1444
108	1e+13	NDD	34.323	34.228	-0.0947
109	1e+13	NDD	34.604	34.565	-0.039
110	1e+13	NDD	34.646	34.599	-0.0467
111	1e+13	NDD	34.685	34.587	-0.0977
732	0	CORRELATION	34.627	34.39	-0.2375
742	0	CORRELATION	34.663	34.471	-0.1922
879	0	CORRELATION	34.195	33.995	-0.2001
880	0	CORRELATION	34.547	34.31	-0.2366

NDD vs Post - Pre Exposure Delta

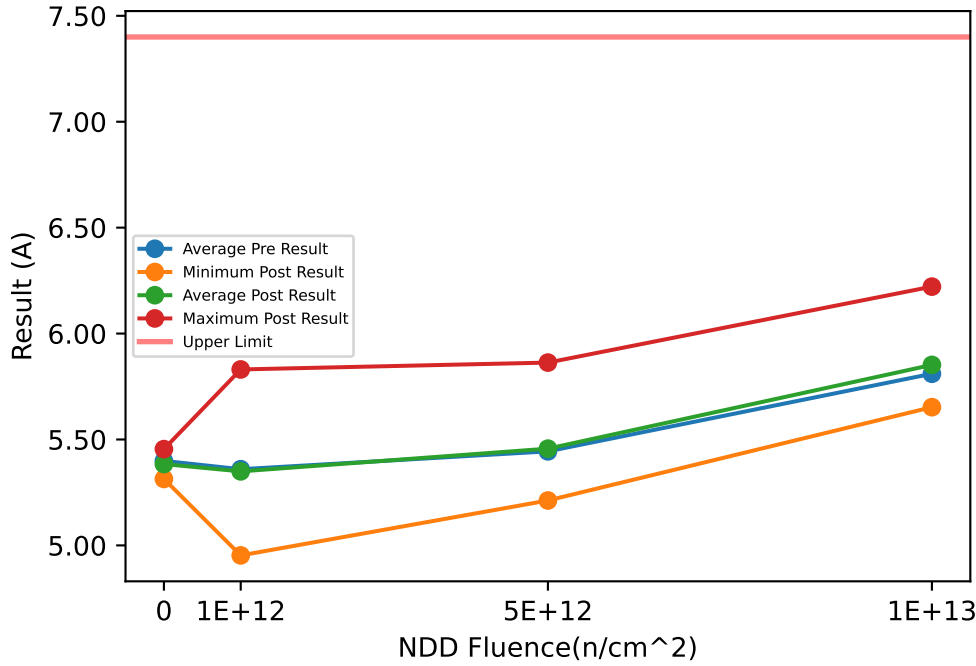


Test Statistics (m?)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	34.195	34.508	34.663	0.21432	33.995	34.292	34.471	0.20835	-0.2375	-0.2166	-0.1922	0.023836
1e+12	34.378	34.491	34.627	0.12179	34.287	34.378	34.473	0.089532	-0.1539	-0.1136	-0.0611	0.039044
5e+12	34.288	34.455	34.696	0.17262	34.203	34.358	34.552	0.14503	-0.1444	-0.096625	-0.0773	0.032041
1e+13	34.323	34.564	34.685	0.16431	34.228	34.495	34.599	0.17826	-0.0977	-0.069525	-0.039	0.030986

Device Test: 20.55 THRESHOLD|RISE/SW/5/////@HIGH_SIDE_CURR_LIM_6A_PLST

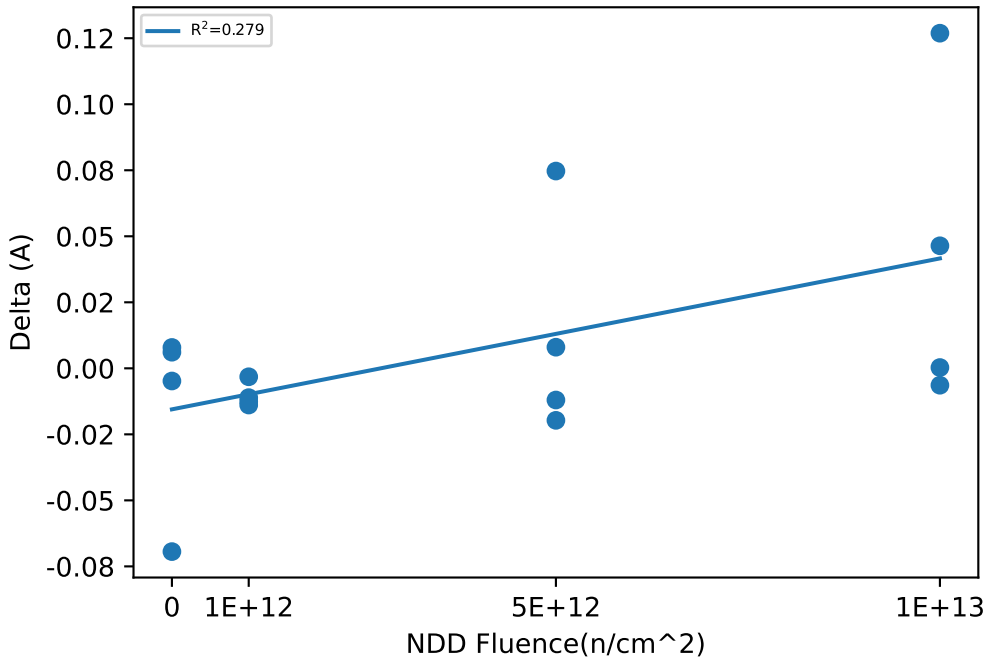
NDD vs Result Stats



Test Results (Upper Limit = 7.4 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5.8338	5.8306	-0.0032
101	1e+12	NDD	4.9667	4.9528	-0.0139
102	1e+12	NDD	5.6072	5.5961	-0.0111
103	1e+12	NDD	5.0309	5.0183	-0.0126
104	5e+12	NDD	5.4867	5.4747	-0.012
105	5e+12	NDD	5.1373	5.212	0.0747
106	5e+12	NDD	5.855	5.863	0.008
107	5e+12	NDD	5.2967	5.277	-0.0197
108	1e+13	NDD	5.5256	5.6525	0.1269
109	1e+13	NDD	5.8161	5.8097	-0.0064
110	1e+13	NDD	6.1752	6.2216	0.0464
111	1e+13	NDD	5.7241	5.7244	0.0003
732	0	CORRELATION	5.4466	5.4545	0.0079
742	0	CORRELATION	5.4337	5.4398	0.0061
879	0	CORRELATION	5.3185	5.3137	-0.0048
880	0	CORRELATION	5.3966	5.3272	-0.0694

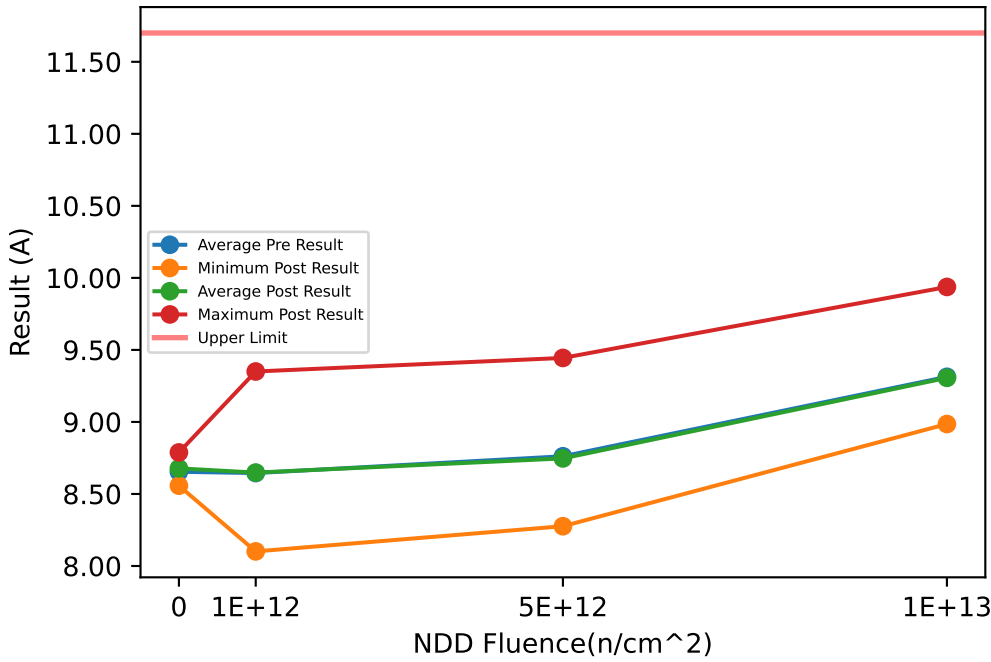
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.3185	5.3989	5.4466	0.057607	5.3137	5.3838	5.4545	0.073603	-0.0694	-0.01505	0.0079	0.036665
1e+12	4.9667	5.3597	5.8338	0.42762	4.9528	5.3495	5.8306	0.43179	-0.0139	-0.0102	-0.0032	0.0048049
5e+12	5.1373	5.4439	5.855	0.30903	5.212	5.4567	5.863	0.29302	-0.0197	0.01275	0.0747	0.042918
1e+13	5.5256	5.8102	6.1752	0.27183	5.6525	5.8521	6.2216	0.25461	-0.0064	0.0418	0.1269	0.061397

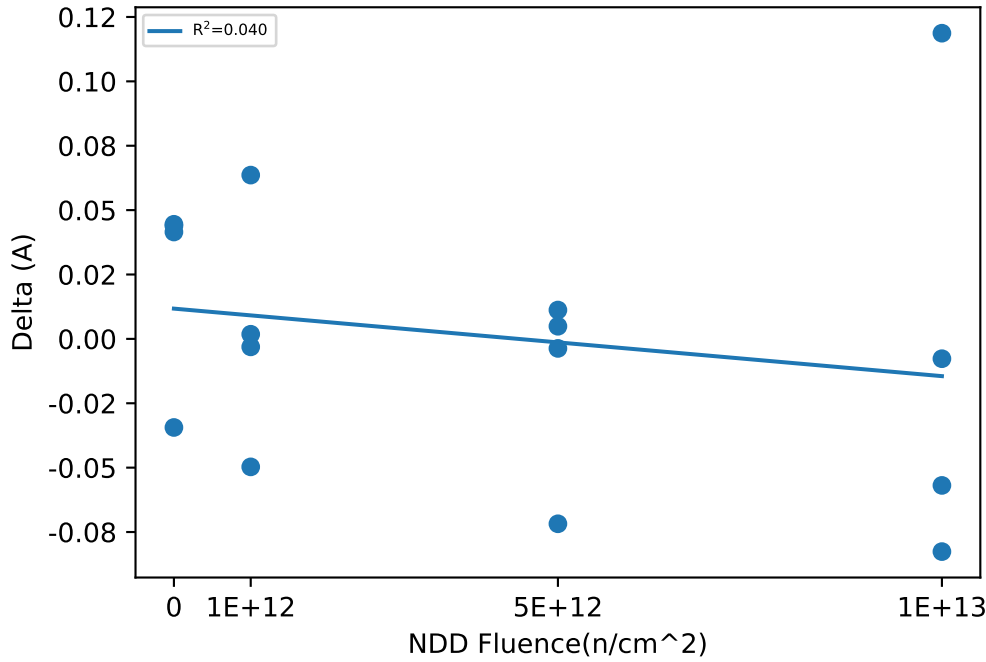
NDD vs Result Stats



Test Results (Upper Limit = 11.7 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	9.3999	9.3502	-0.0497
101	1e+12	NDD	8.0377	8.1013	0.0636
102	1e+12	NDD	8.9069	8.9038	-0.0031
103	1e+12	NDD	8.2362	8.238	0.0018
104	5e+12	NDD	8.8036	8.8148	0.0112
105	5e+12	NDD	8.2798	8.2761	-0.0037
106	5e+12	NDD	9.4394	9.4443	0.0049
107	5e+12	NDD	8.5237	8.4519	-0.0718
108	1e+13	NDD	8.8667	8.9854	0.1187
109	1e+13	NDD	9.2287	9.1718	-0.0569
110	1e+13	NDD	9.9448	9.9371	-0.0077
111	1e+13	NDD	9.2126	9.13	-0.0826
732	0	CORRELATION	8.7438	8.7883	0.0445
742	0	CORRELATION	8.7228	8.7643	0.0415
879	0	CORRELATION	8.5919	8.5575	-0.0344
880	0	CORRELATION	8.5572	8.6011	0.0439

NDD vs Post - Pre Exposure Delta

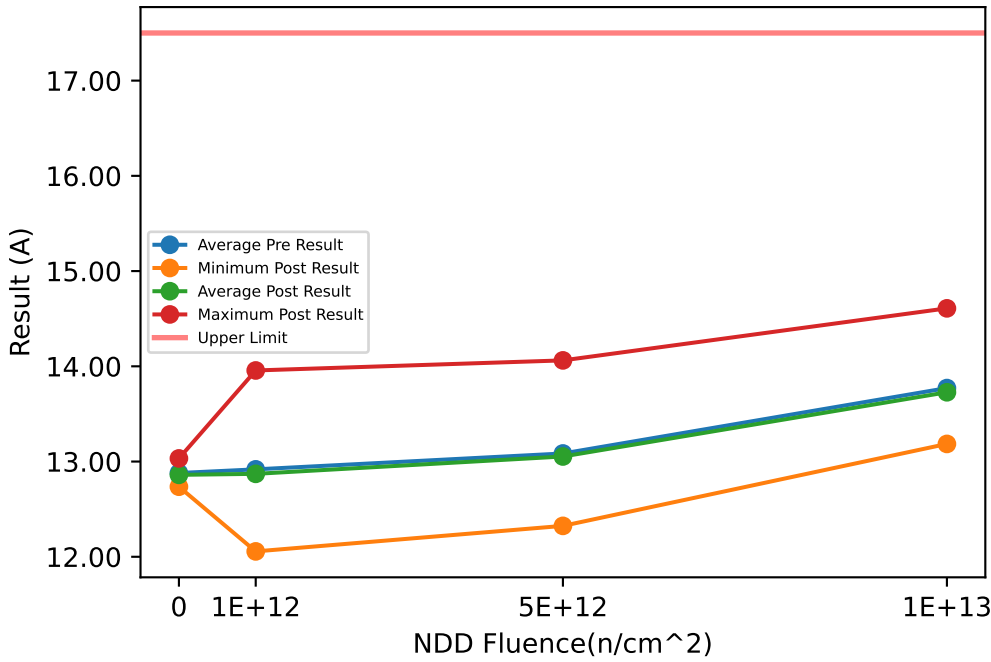


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.5572	8.6539	8.7438	0.093138	8.5575	8.6778	8.7883	0.11554	-0.0344	0.023875	0.0445	0.038872
1e+12	8.0377	8.6452	9.3999	0.62567	8.1013	8.6483	9.3502	0.58466	-0.0497	0.00315	0.0636	0.046505
5e+12	8.2798	8.7616	9.4394	0.49997	8.2761	8.7468	9.4443	0.51629	-0.0718	-0.01485	0.0112	0.038455
1e+13	8.8667	9.3132	9.9448	0.45297	8.9854	9.3061	9.9371	0.4282	-0.0826	-0.007125	0.1187	0.089454

Device Test: 20.57 THRESHOLD|RISE/SW/5////@HIGH_SIDE_CURR_LIM_13A_PLST

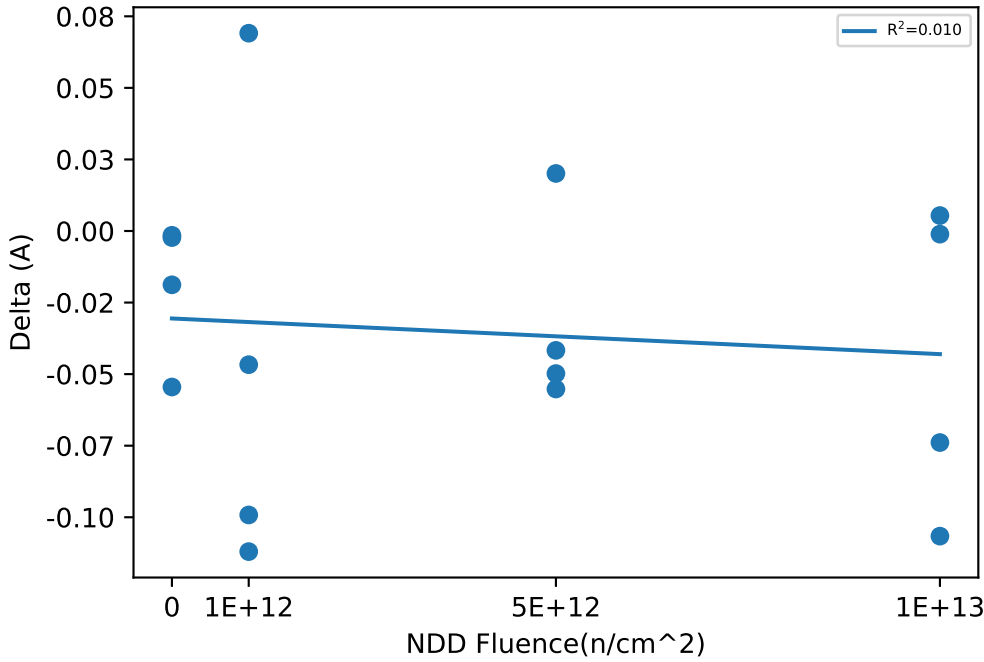
NDD vs Result Stats



Test Results (Upper Limit = 17.5 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	14.056	13.956	-0.0992
101	1e+12	NDD	11.987	12.056	0.0691
102	1e+12	NDD	13.244	13.197	-0.0467
103	1e+12	NDD	12.385	12.273	-0.112
104	5e+12	NDD	13.122	13.142	0.0201
105	5e+12	NDD	12.374	12.325	-0.0498
106	5e+12	NDD	14.104	14.062	-0.0417
107	5e+12	NDD	12.739	12.684	-0.0552
108	1e+13	NDD	13.186	13.185	-0.0011
109	1e+13	NDD	13.559	13.565	0.0054
110	1e+13	NDD	14.683	14.609	-0.0739
111	1e+13	NDD	13.658	13.551	-0.1066
732	0	CORRELATION	13.035	13.033	-0.0023
742	0	CORRELATION	12.932	12.931	-0.0015
879	0	CORRELATION	12.761	12.742	-0.0188
880	0	CORRELATION	12.79	12.736	-0.0545

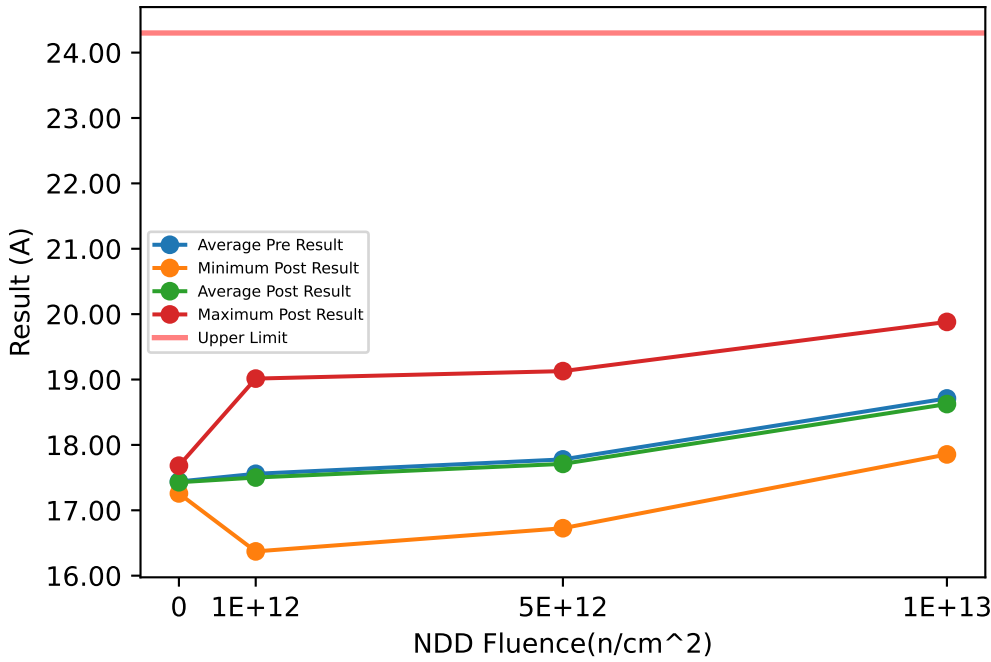
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.761	12.88	13.035	0.12789	12.736	12.86	13.033	0.14634	-0.0545	-0.019275	-0.0015	0.0248
1e+12	11.987	12.918	14.056	0.92195	12.056	12.871	13.956	0.87654	-0.112	-0.0472	0.0691	0.082521
5e+12	12.374	13.085	14.104	0.74485	12.325	13.053	14.062	0.75134	-0.0552	-0.03165	0.0201	0.034943
1e+13	13.186	13.771	14.683	0.64052	13.185	13.727	14.609	0.6133	-0.1066	-0.04405	0.0054	0.055056

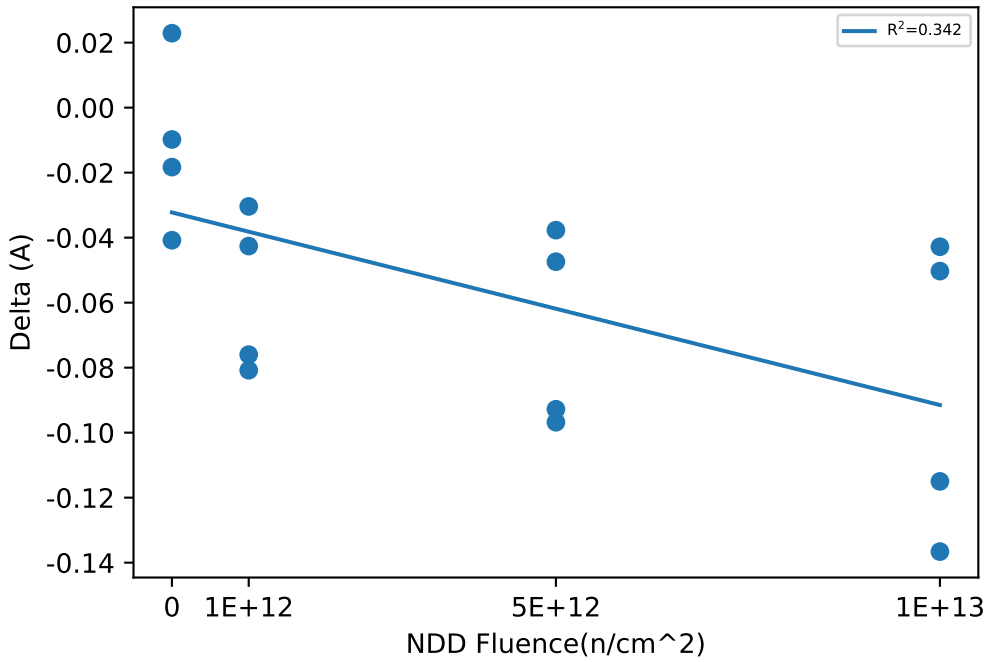
NDD vs Result Stats



Test Results (Upper Limit = 24.3 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	19.09	19.014	-0.076
101	1e+12	NDD	16.414	16.371	-0.0426
102	1e+12	NDD	17.964	17.884	-0.0808
103	1e+12	NDD	16.765	16.734	-0.0304
104	5e+12	NDD	17.827	17.73	-0.0968
105	5e+12	NDD	16.773	16.726	-0.0474
106	5e+12	NDD	19.221	19.129	-0.0928
107	5e+12	NDD	17.292	17.255	-0.0377
108	1e+13	NDD	17.897	17.855	-0.0428
109	1e+13	NDD	18.409	18.359	-0.0503
110	1e+13	NDD	19.996	19.881	-0.115
111	1e+13	NDD	18.541	18.404	-0.1366
732	0	CORRELATION	17.692	17.682	-0.0098
742	0	CORRELATION	17.482	17.505	0.0229
879	0	CORRELATION	17.299	17.258	-0.0408
880	0	CORRELATION	17.288	17.27	-0.0183

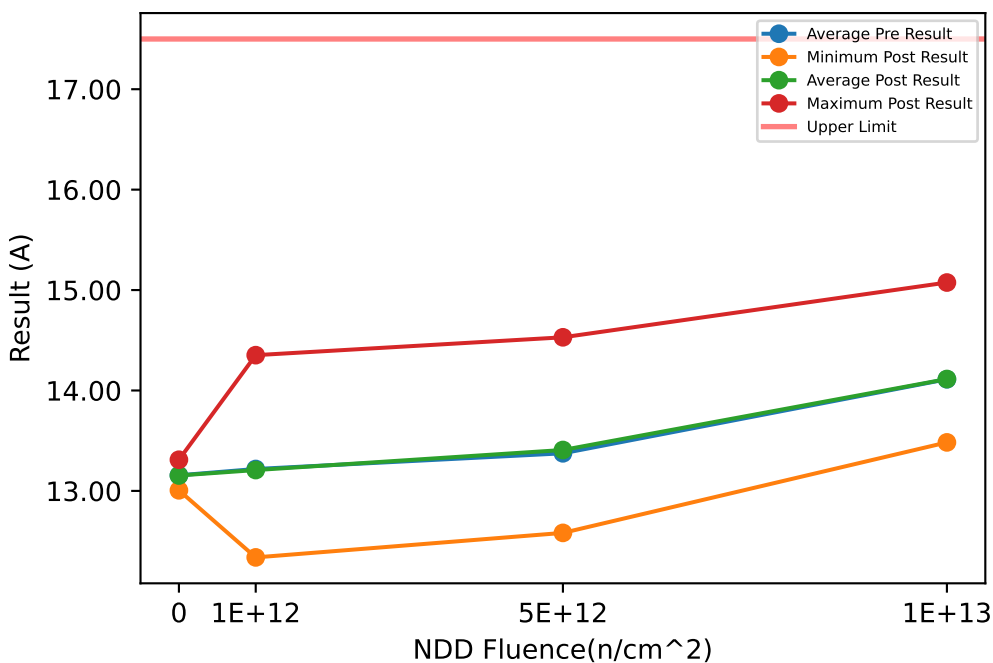
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	17.288	17.44	17.692	0.19007	17.258	17.429	17.682	0.20377	-0.0408	-0.0115	0.0229	0.026401
1e+12	16.414	17.558	19.09	1.2181	16.371	17.501	19.014	1.1973	-0.0808	-0.05745	-0.0304	0.024776
5e+12	16.773	17.778	19.221	1.0538	16.726	17.71	19.129	1.031	-0.0968	-0.068675	-0.0377	0.030469
1e+13	17.897	18.711	19.996	0.90067	17.855	18.625	19.881	0.87388	-0.1366	-0.086175	-0.0428	0.046697

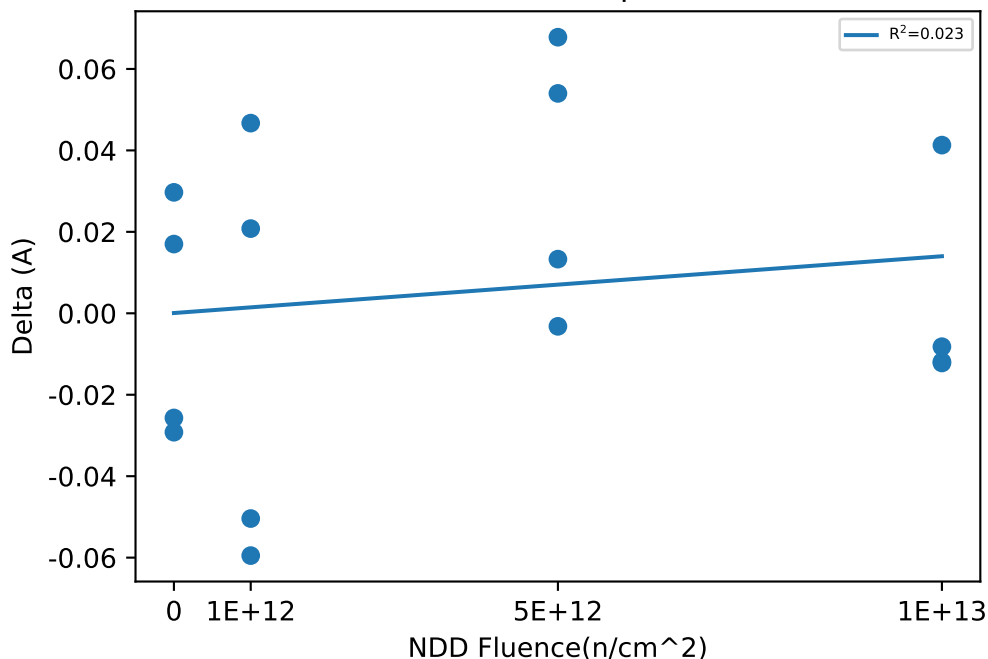
NDD vs Result Stats



Test Results (Upper Limit = 17.5 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	14.402	14.352	-0.0504
101	1e+12	NDD	12.291	12.338	0.0467
102	1e+12	NDD	13.535	13.555	0.0208
103	1e+12	NDD	12.645	12.586	-0.0595
104	5e+12	NDD	13.381	13.448	0.0678
105	5e+12	NDD	12.585	12.582	-0.0032
106	5e+12	NDD	14.516	14.53	0.0133
107	5e+12	NDD	13.016	13.07	0.054
108	1e+13	NDD	13.491	13.483	-0.0082
109	1e+13	NDD	13.889	13.93	0.0413
110	1e+13	NDD	15.087	15.075	-0.0119
111	1e+13	NDD	13.98	13.968	-0.0122
732	0	CORRELATION	13.339	13.31	-0.0292
742	0	CORRELATION	13.183	13.2	0.017
879	0	CORRELATION	13.032	13.006	-0.0257
880	0	CORRELATION	13.068	13.098	0.0297

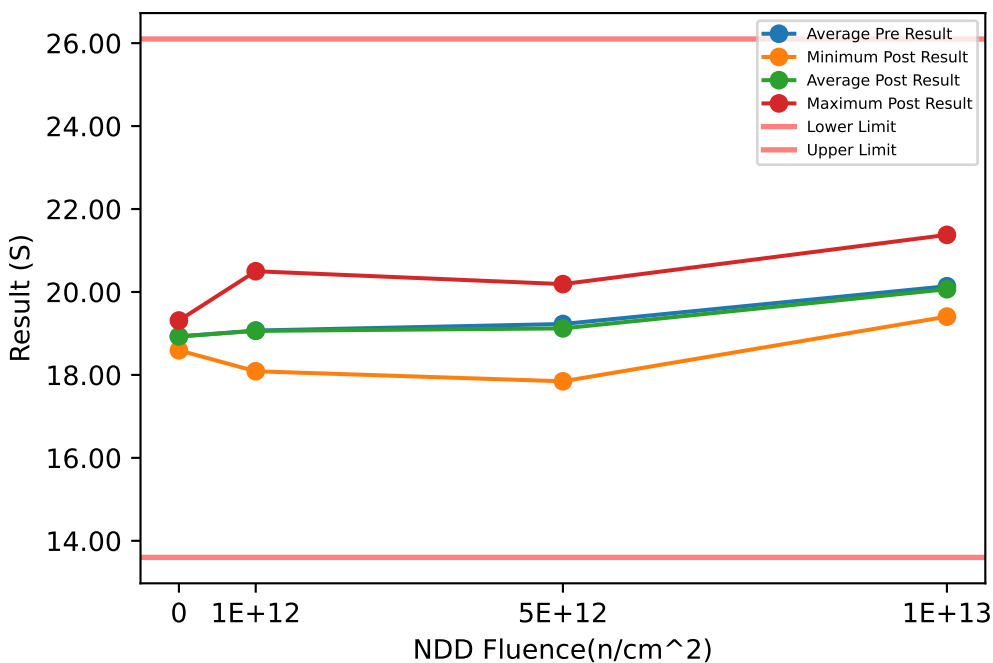
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	13.032	13.155	13.339	0.13856	13.006	13.153	13.31	0.13115	-0.0292	-0.00205	0.0297	0.029818
1e+12	12.291	13.218	14.402	0.94684	12.338	13.208	14.352	0.92614	-0.0595	-0.0106	0.0467	0.052423
5e+12	12.585	13.374	14.516	0.82773	12.582	13.407	14.53	0.82791	-0.0032	0.032975	0.0678	0.033419
1e+13	13.491	14.112	15.087	0.68384	13.483	14.114	15.075	0.67742	-0.0122	0.00225	0.0413	0.026097

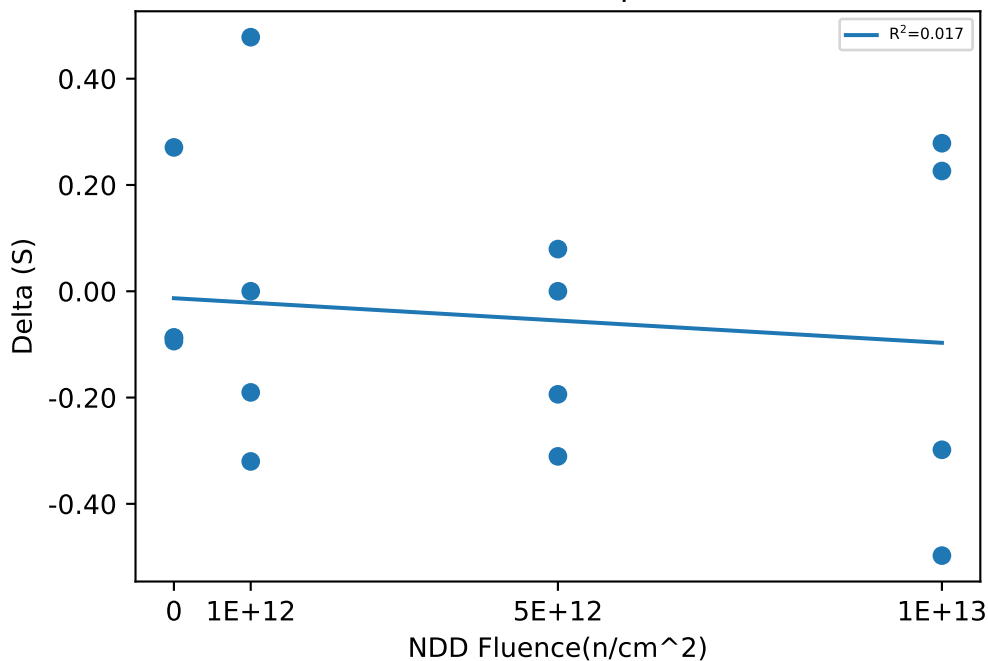
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	20.82	20.5	-0.3202
101	1e+12	NDD	17.61	18.088	0.4781
102	1e+12	NDD	19.596	19.405	-0.1903
103	1e+12	NDD	18.253	18.253	0
104	5e+12	NDD	18.856	18.856	0
105	5e+12	NDD	17.767	17.846	0.0794
106	5e+12	NDD	20.5	20.189	-0.3107
107	5e+12	NDD	19.79	19.596	-0.1939
108	1e+13	NDD	19.127	19.405	0.2786
109	1e+13	NDD	20.088	19.79	-0.2983
110	1e+13	NDD	21.151	21.377	0.2263
111	1e+13	NDD	20.189	19.692	-0.4974
732	0	CORRELATION	18.768	18.68	-0.0878
742	0	CORRELATION	19.405	19.312	-0.0938
879	0	CORRELATION	18.68	18.593	-0.0868
880	0	CORRELATION	18.856	19.127	0.2707

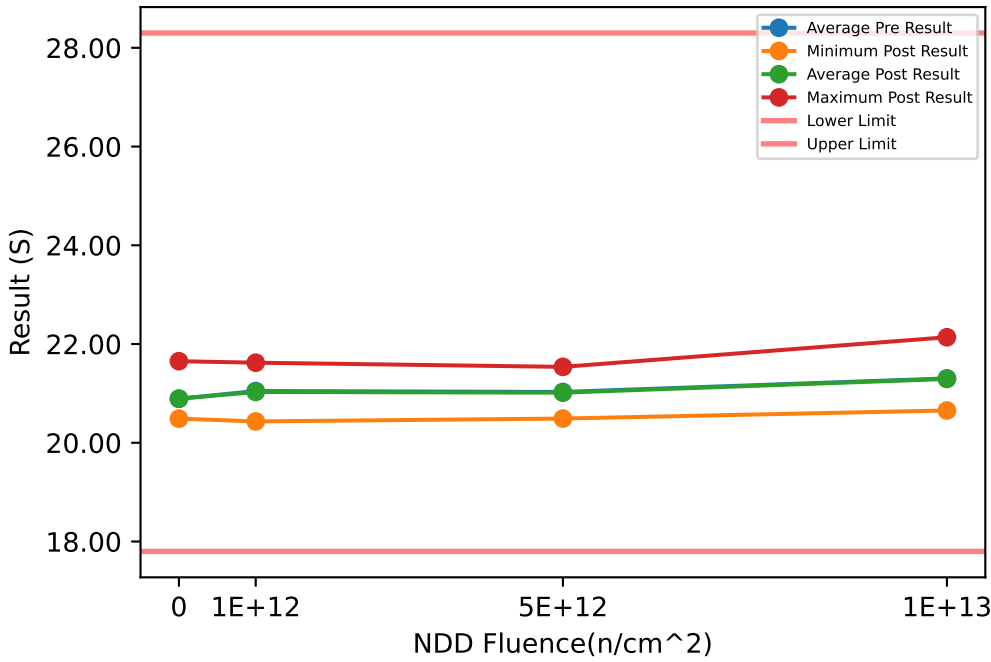
NDD vs Post - Pre Exposure Delta



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	18.68	18.927	19.405	0.32681	18.593	18.928	19.312	0.34665	-0.0938	0.000575	0.2707	0.18011
1e+12	17.61	19.07	20.82	1.4304	18.088	19.062	20.5	1.1237	-0.3202	-0.0081	0.4781	0.34979
5e+12	17.767	19.228	20.5	1.1843	17.846	19.122	20.189	1.0104	-0.3107	-0.1063	0.0794	0.17817
1e+13	19.127	20.139	21.151	0.82729	19.405	20.066	21.377	0.88908	-0.4974	-0.0727	0.2786	0.38474

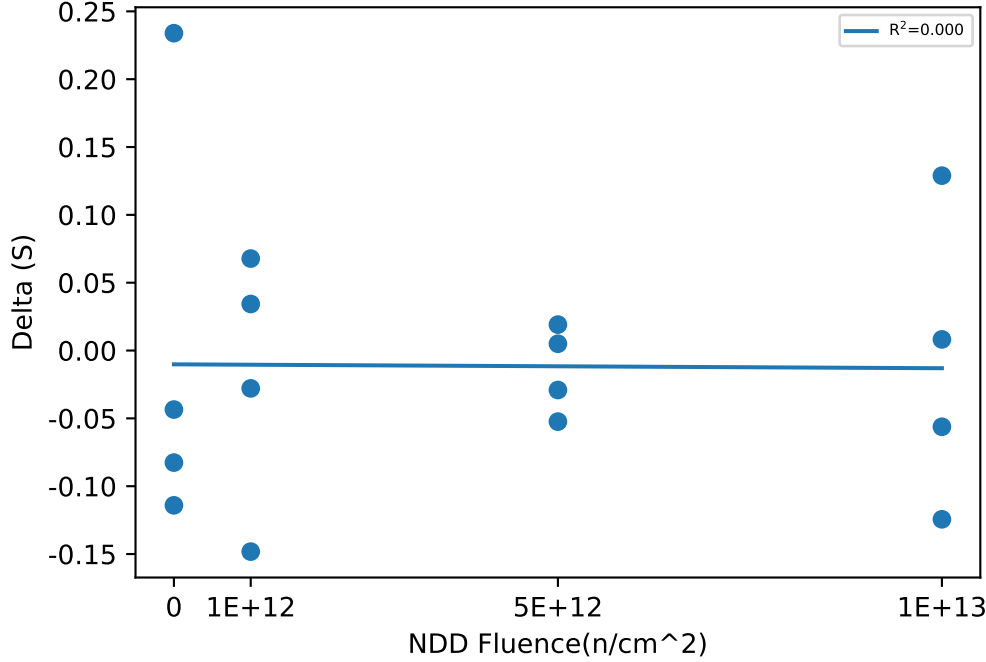
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	21.77	21.622	-0.1482
101	1e+12	NDD	20.398	20.433	0.0343
102	1e+12	NDD	21.433	21.405	-0.0279
103	1e+12	NDD	20.591	20.658	0.0678
104	5e+12	NDD	20.597	20.616	0.0191
105	5e+12	NDD	20.52	20.491	-0.0291
106	5e+12	NDD	21.533	21.538	0.005
107	5e+12	NDD	21.469	21.417	-0.0524
108	1e+13	NDD	20.779	20.654	-0.1244
109	1e+13	NDD	21.21	21.339	0.1289
110	1e+13	NDD	22.194	22.137	-0.0562
111	1e+13	NDD	21.033	21.041	0.0082
732	0	CORRELATION	20.786	20.672	-0.1141
742	0	CORRELATION	21.419	21.652	0.2339
879	0	CORRELATION	20.533	20.489	-0.0435
880	0	CORRELATION	20.834	20.752	-0.0826

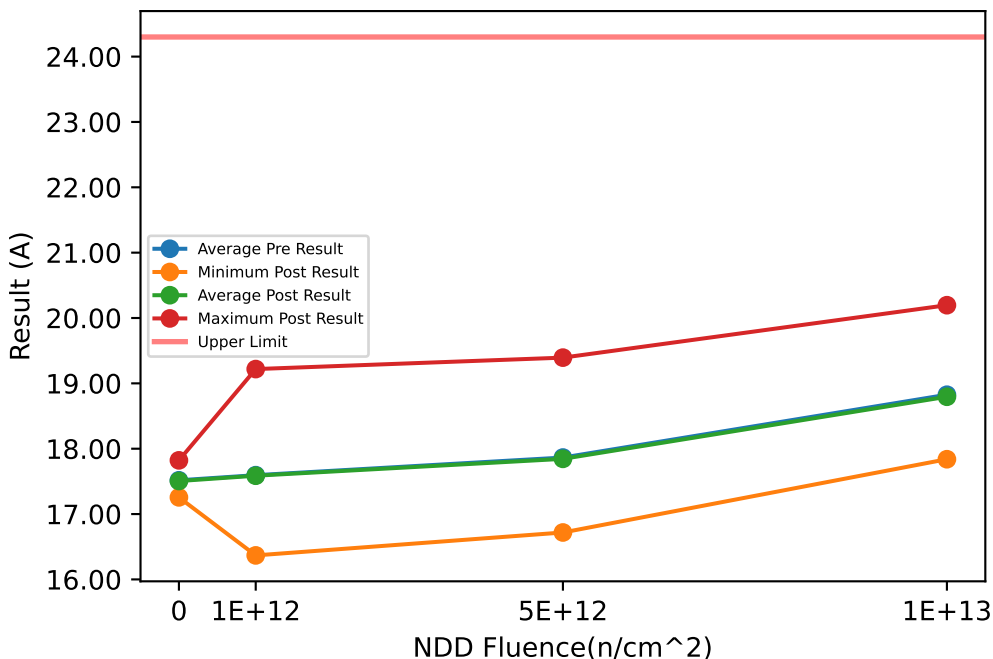
NDD vs Post - Pre Exposure Delta



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	20.533	20.893	21.419	0.37457	20.489	20.891	21.652	0.51921	-0.1141	-0.001575	0.2339	0.15962
1e+12	20.398	21.048	21.77	0.65844	20.433	21.029	21.622	0.5732	-0.1482	-0.0185	0.0678	0.095124
5e+12	20.52	21.029	21.533	0.54582	20.491	21.015	21.538	0.53822	-0.0524	-0.01435	0.0191	0.032448
1e+13	20.779	21.304	22.194	0.61899	20.654	21.293	22.137	0.62885	-0.1244	-0.010875	0.1289	0.10777

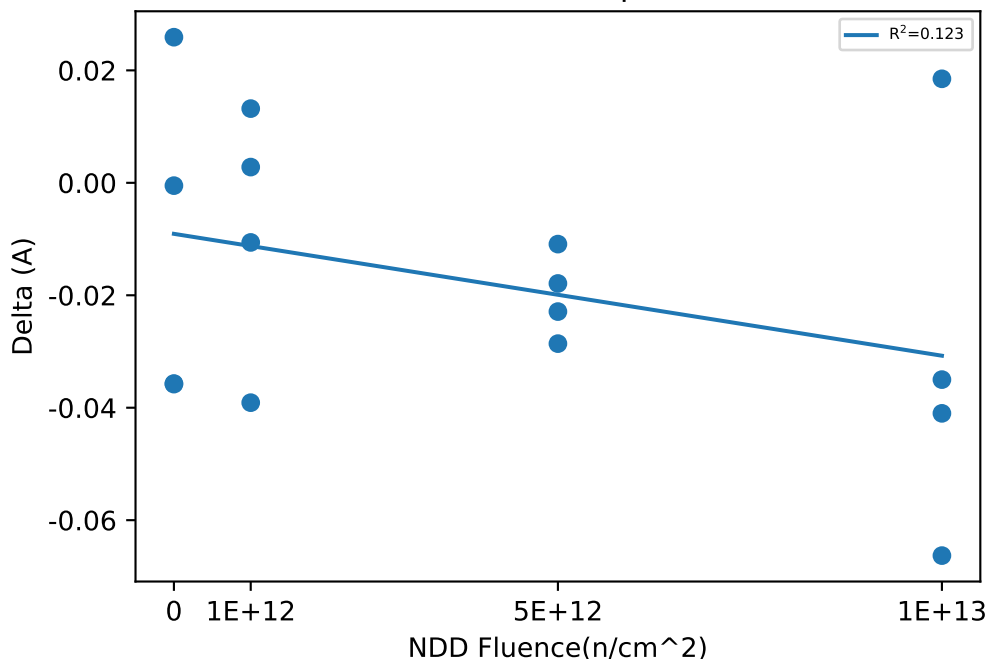
NDD vs Result Stats



Test Results (Upper Limit = 24.3 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	19.205	19.219	0.0132
101	1e+12	NDD	16.407	16.367	-0.0391
102	1e+12	NDD	17.992	17.994	0.0028
103	1e+12	NDD	16.777	16.766	-0.0106
104	5e+12	NDD	17.879	17.851	-0.0286
105	5e+12	NDD	16.741	16.718	-0.0229
106	5e+12	NDD	19.405	19.394	-0.0109
107	5e+12	NDD	17.435	17.417	-0.0179
108	1e+13	NDD	17.821	17.839	0.0185
109	1e+13	NDD	18.533	18.498	-0.035
110	1e+13	NDD	20.237	20.196	-0.041
111	1e+13	NDD	18.714	18.647	-0.0663
732	0	CORRELATION	17.858	17.822	-0.0357
742	0	CORRELATION	17.589	17.588	-0.0005
879	0	CORRELATION	17.291	17.256	-0.0358
880	0	CORRELATION	17.33	17.356	0.0259

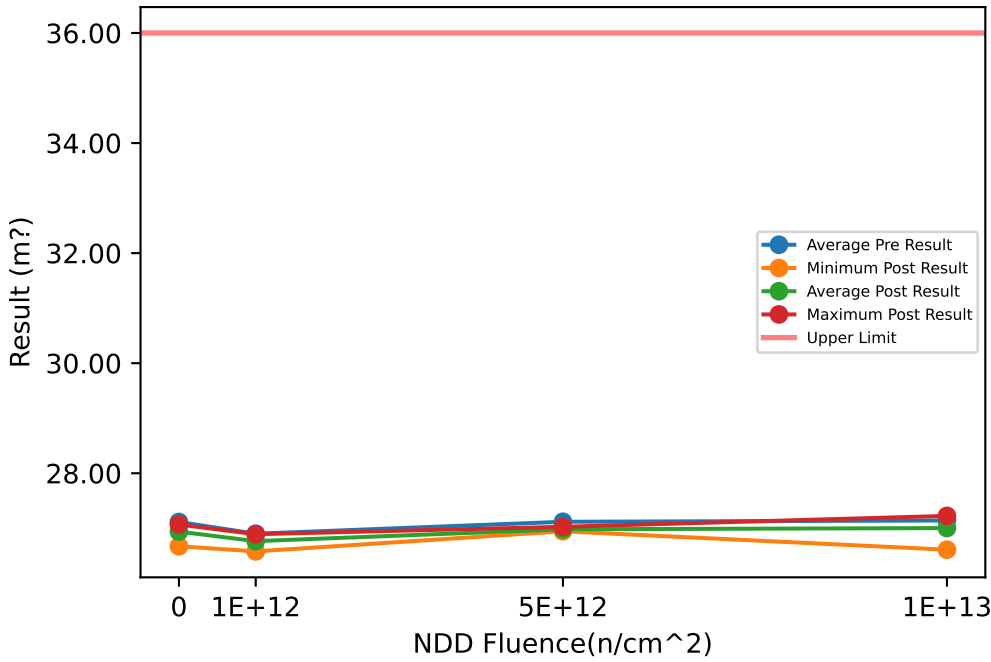
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	17.291	17.517	17.858	0.26257	17.256	17.505	17.822	0.25274	-0.0358	-0.011525	0.0259	0.029977
1e+12	16.407	17.595	19.205	1.2692	16.367	17.587	19.219	1.2896	-0.0391	-0.008425	0.0132	0.022652
5e+12	16.741	17.865	19.405	1.1283	16.718	17.845	19.394	1.1331	-0.0286	-0.020075	-0.0109	0.0075181
1e+13	17.821	18.826	20.237	1.0166	17.839	18.795	20.196	0.99775	-0.0663	-0.03095	0.0185	0.035648

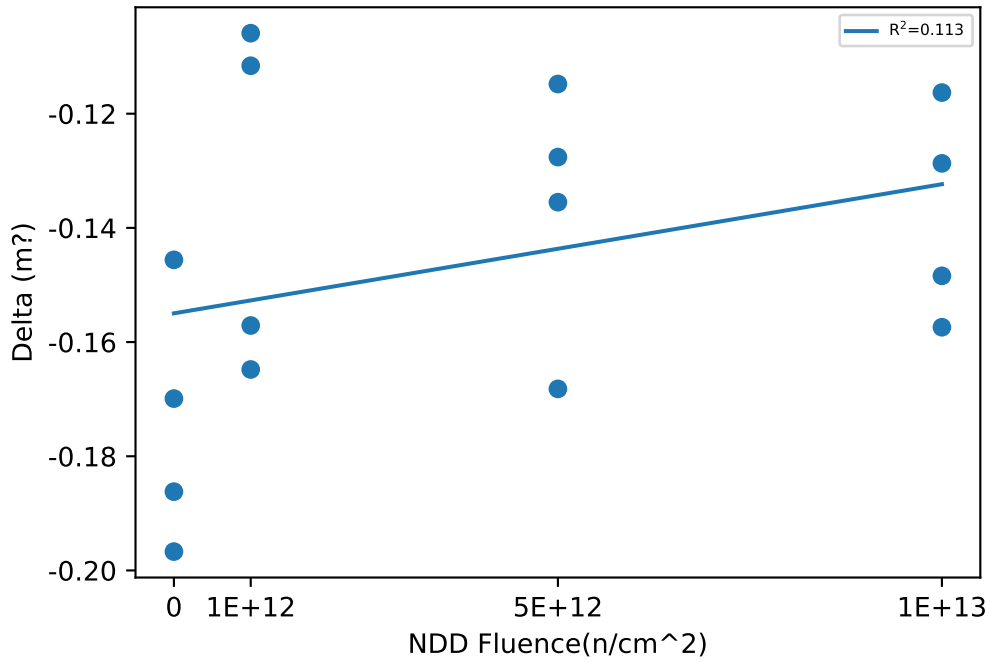
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	27.004	26.892	-0.1116
101	1e+12	NDD	26.93	26.824	-0.1059
102	1e+12	NDD	26.926	26.769	-0.1571
103	1e+12	NDD	26.745	26.58	-0.1648
104	5e+12	NDD	27.142	27.027	-0.1148
105	5e+12	NDD	27.113	26.986	-0.1276
106	5e+12	NDD	27.104	26.968	-0.1355
107	5e+12	NDD	27.113	26.945	-0.1682
108	1e+13	NDD	26.727	26.611	-0.1163
109	1e+13	NDD	27.241	27.092	-0.1484
110	1e+13	NDD	27.383	27.225	-0.1574
111	1e+13	NDD	27.216	27.087	-0.1287
732	0	CORRELATION	27.236	27.05	-0.1862
742	0	CORRELATION	27.265	27.068	-0.1967
879	0	CORRELATION	26.819	26.674	-0.1456
880	0	CORRELATION	27.137	26.967	-0.1699

NDD vs Post - Pre Exposure Delta

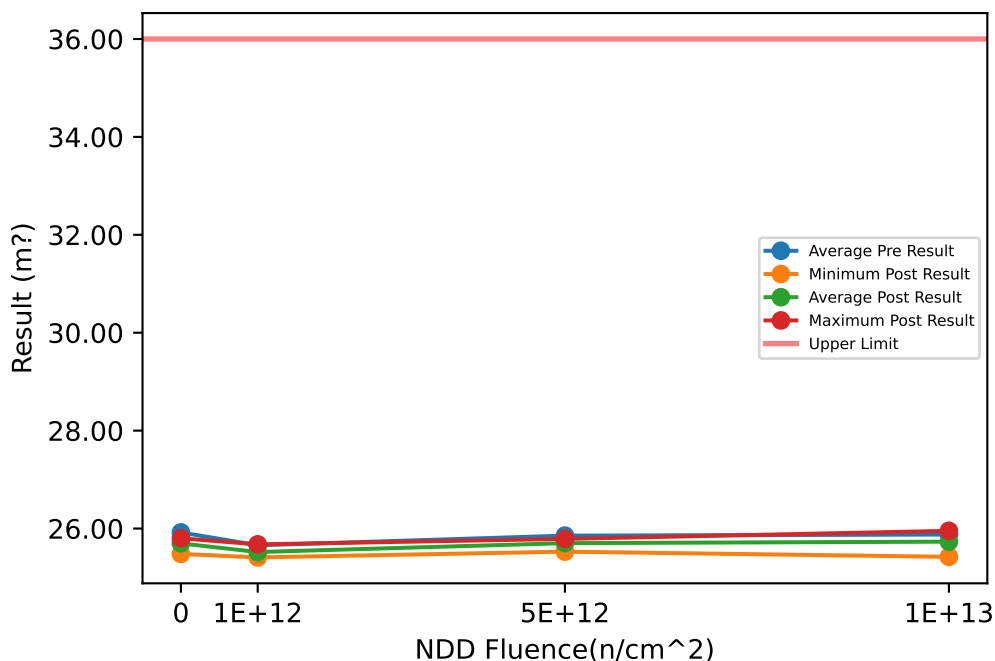


Test Statistics (m?)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.819	27.114	27.265	0.20421	26.674	26.94	27.068	0.18276	-0.1967	-0.1746	-0.1456	0.022257
1e+12	26.745	26.901	27.004	0.11017	26.58	26.766	26.892	0.13402	-0.1648	-0.13485	-0.1059	0.03039
5e+12	27.104	27.118	27.142	0.01632	26.945	26.982	27.027	0.034429	-0.1682	-0.13652	-0.1148	0.022774
1e+13	26.727	27.142	27.383	0.28585	26.611	27.004	27.225	0.26967	-0.1574	-0.1377	-0.1163	0.018633

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

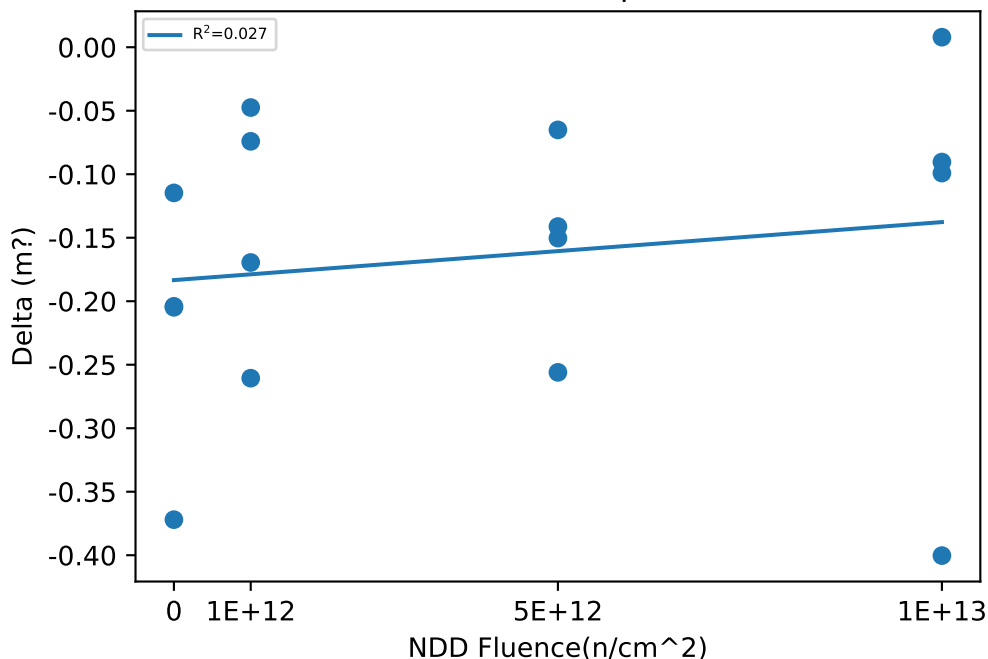
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	25.724	25.677	-0.0475
101	1e+12	NDD	25.692	25.431	-0.2606
102	1e+12	NDD	25.636	25.562	-0.0741
103	1e+12	NDD	25.58	25.411	-0.1695
104	5e+12	NDD	25.938	25.788	-0.1503
105	5e+12	NDD	25.784	25.528	-0.256
106	5e+12	NDD	25.868	25.727	-0.1412
107	5e+12	NDD	25.829	25.764	-0.0651
108	1e+13	NDD	25.414	25.422	0.0079
109	1e+13	NDD	26.067	25.666	-0.4003
110	1e+13	NDD	26.052	25.953	-0.0991
111	1e+13	NDD	25.978	25.887	-0.0904
732	0	CORRELATION	26.006	25.801	-0.2048
742	0	CORRELATION	26.103	25.731	-0.372
879	0	CORRELATION	25.596	25.482	-0.1147
880	0	CORRELATION	25.977	25.773	-0.204

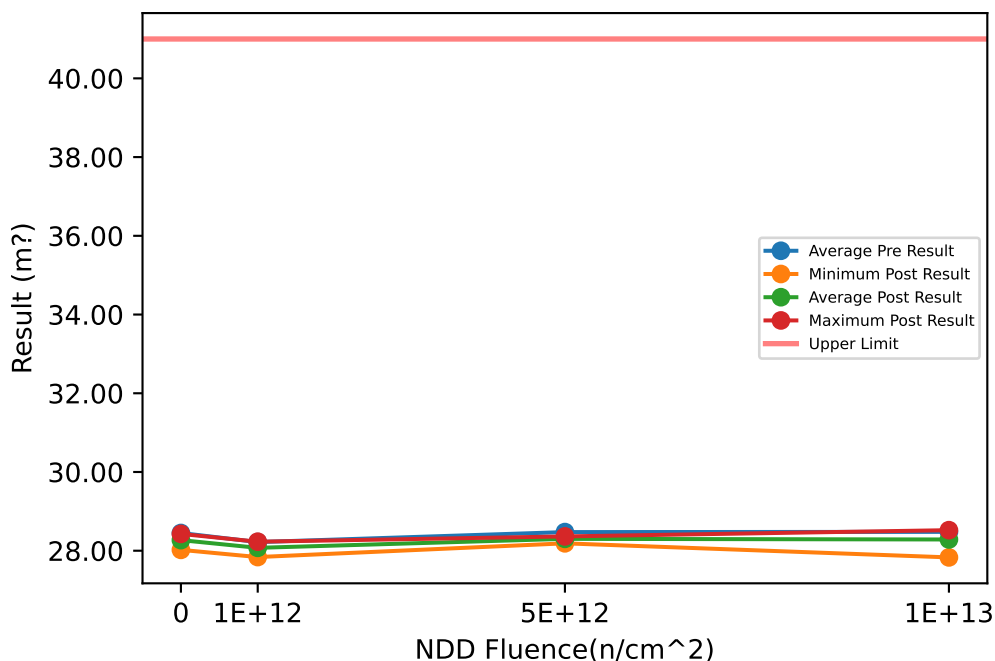
NDD vs Post - Pre Exposure Delta



Test Statistics (m?)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	25.596	25.921	26.103	0.22279	25.482	25.697	25.801	0.14617	-0.372	-0.22388	-0.1147	0.10742
1e+12	25.58	25.658	25.724	0.06349	25.411	25.52	25.677	0.12424	-0.2606	-0.13793	-0.0475	0.097119
5e+12	25.784	25.855	25.938	0.065206	25.528	25.702	25.788	0.11838	-0.256	-0.15315	-0.0651	0.07849
1e+13	25.414	25.878	26.067	0.31144	25.422	25.732	25.953	0.2404	-0.4003	-0.14548	0.0079	0.17668

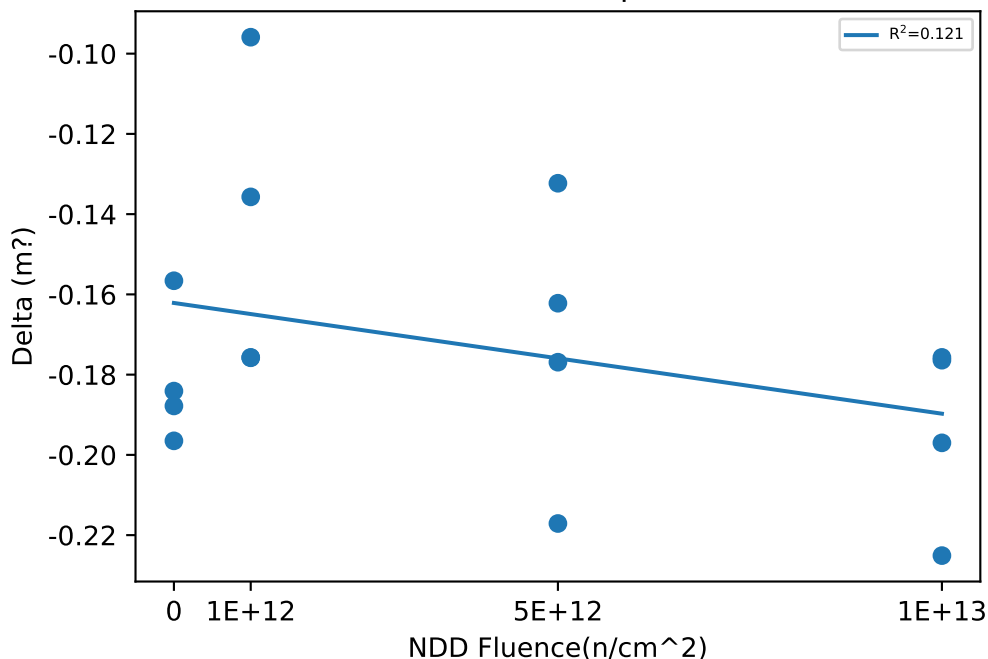
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	28.365	28.229	-0.1357
101	1e+12	NDD	28.23	28.134	-0.0959
102	1e+12	NDD	28.267	28.091	-0.1757
103	1e+12	NDD	28.015	27.839	-0.1758
104	5e+12	NDD	28.496	28.363	-0.1323
105	5e+12	NDD	28.494	28.332	-0.1622
106	5e+12	NDD	28.499	28.322	-0.1769
107	5e+12	NDD	28.405	28.188	-0.2171
108	1e+13	NDD	28.006	27.83	-0.1757
109	1e+13	NDD	28.54	28.364	-0.1764
110	1e+13	NDD	28.747	28.522	-0.2251
111	1e+13	NDD	28.623	28.426	-0.197
732	0	CORRELATION	28.615	28.427	-0.1878
742	0	CORRELATION	28.569	28.372	-0.1965
879	0	CORRELATION	28.178	28.022	-0.1566
880	0	CORRELATION	28.439	28.255	-0.1841

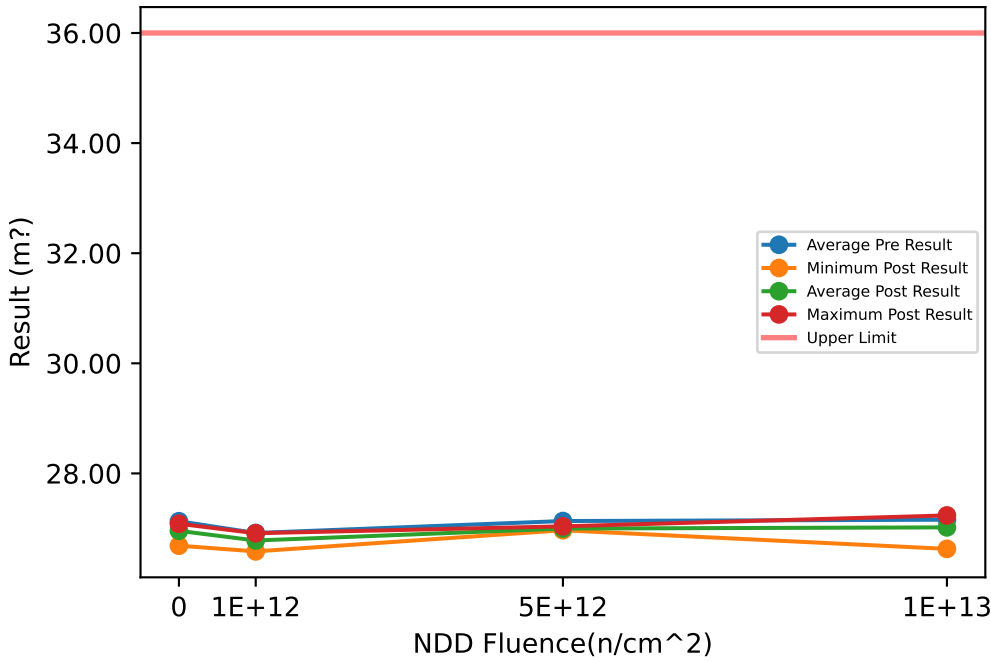
NDD vs Post - Pre Exposure Delta



Test Statistics (m?)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	28.178	28.45	28.615	0.19593	28.022	28.269	28.427	0.17976	-0.1965	-0.18125	-0.1566	0.017236
1e+12	28.015	28.219	28.365	0.14763	27.839	28.073	28.229	0.16654	-0.1758	-0.14578	-0.0959	0.038236
5e+12	28.405	28.473	28.499	0.045683	28.188	28.301	28.363	0.077638	-0.2171	-0.17213	-0.1323	0.035261
1e+13	28.006	28.479	28.747	0.32661	27.83	28.285	28.522	0.31034	-0.2251	-0.19355	-0.1757	0.023238

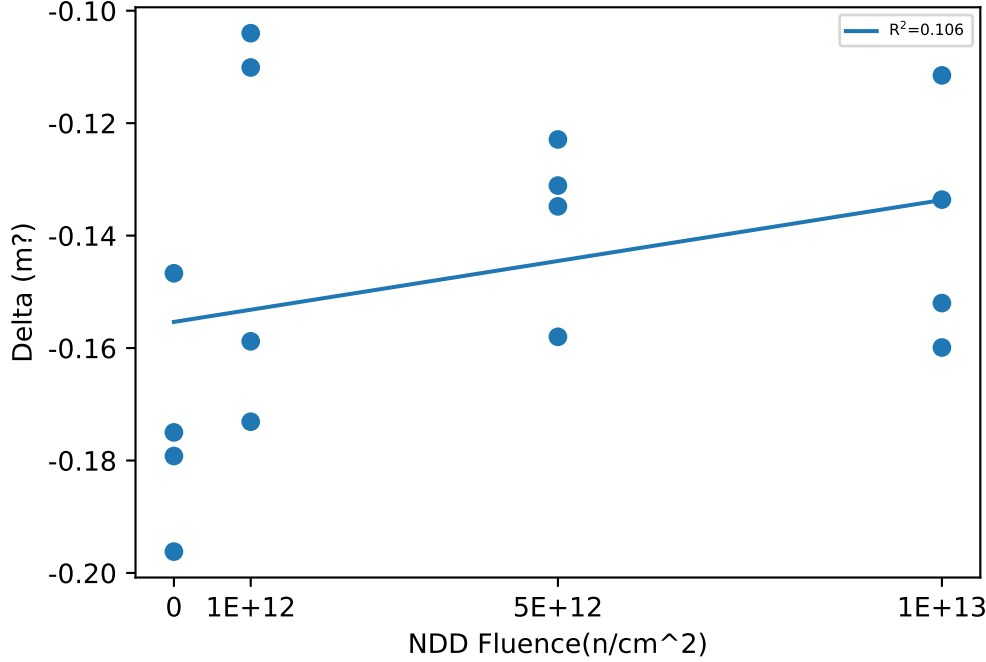
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	27.023	26.913	-0.1101
101	1e+12	NDD	26.946	26.842	-0.104
102	1e+12	NDD	26.946	26.787	-0.1588
103	1e+12	NDD	26.757	26.584	-0.1731
104	5e+12	NDD	27.17	27.039	-0.1311
105	5e+12	NDD	27.125	27.002	-0.1229
106	5e+12	NDD	27.12	26.985	-0.1348
107	5e+12	NDD	27.125	26.968	-0.158
108	1e+13	NDD	26.741	26.629	-0.1115
109	1e+13	NDD	27.259	27.107	-0.152
110	1e+13	NDD	27.396	27.237	-0.1599
111	1e+13	NDD	27.24	27.107	-0.1336
732	0	CORRELATION	27.252	27.073	-0.1792
742	0	CORRELATION	27.282	27.086	-0.1962
879	0	CORRELATION	26.834	26.688	-0.1467
880	0	CORRELATION	27.157	26.982	-0.175

NDD vs Post - Pre Exposure Delta

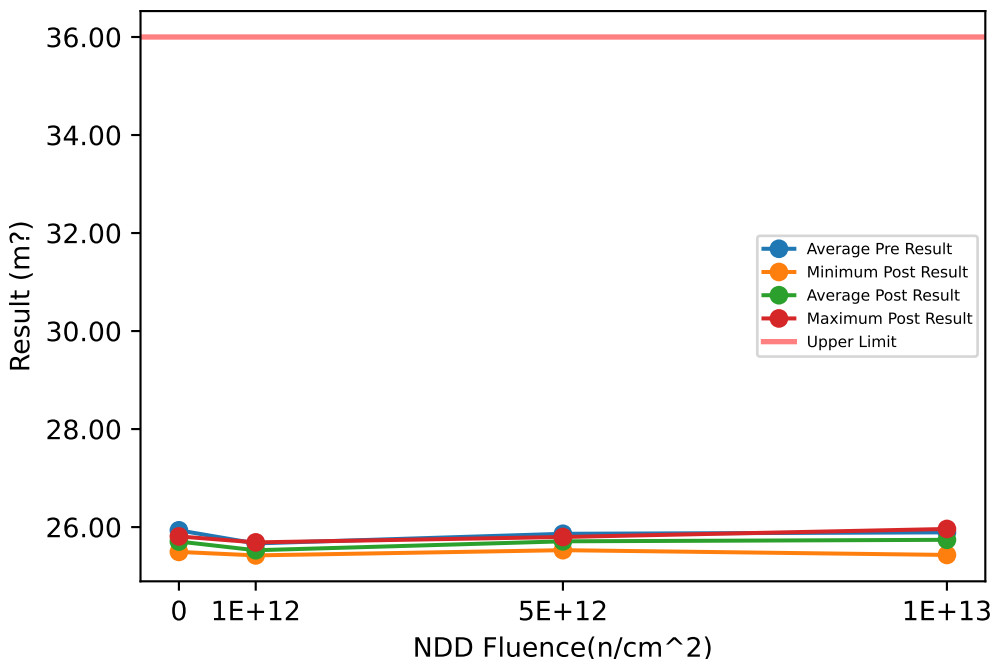


Test Statistics (m?)

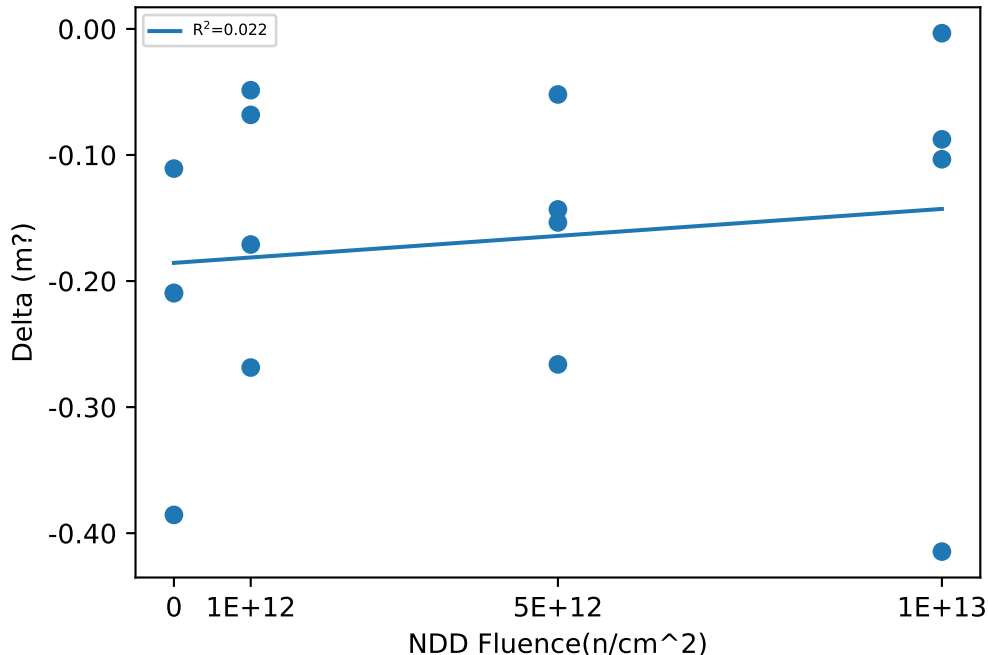
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.834	27.131	27.282	0.2051	26.688	26.957	27.086	0.18552	-0.1962	-0.17428	-0.1467	0.020542
1e+12	26.757	26.918	27.023	0.11357	26.584	26.781	26.913	0.14168	-0.1731	-0.1365	-0.104	0.034593
5e+12	27.12	27.135	27.17	0.023278	26.968	26.998	27.039	0.030396	-0.158	-0.1367	-0.1229	0.015045
1e+13	26.741	27.159	27.396	0.28746	26.629	27.02	27.237	0.26748	-0.1599	-0.13925	-0.1115	0.021533

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



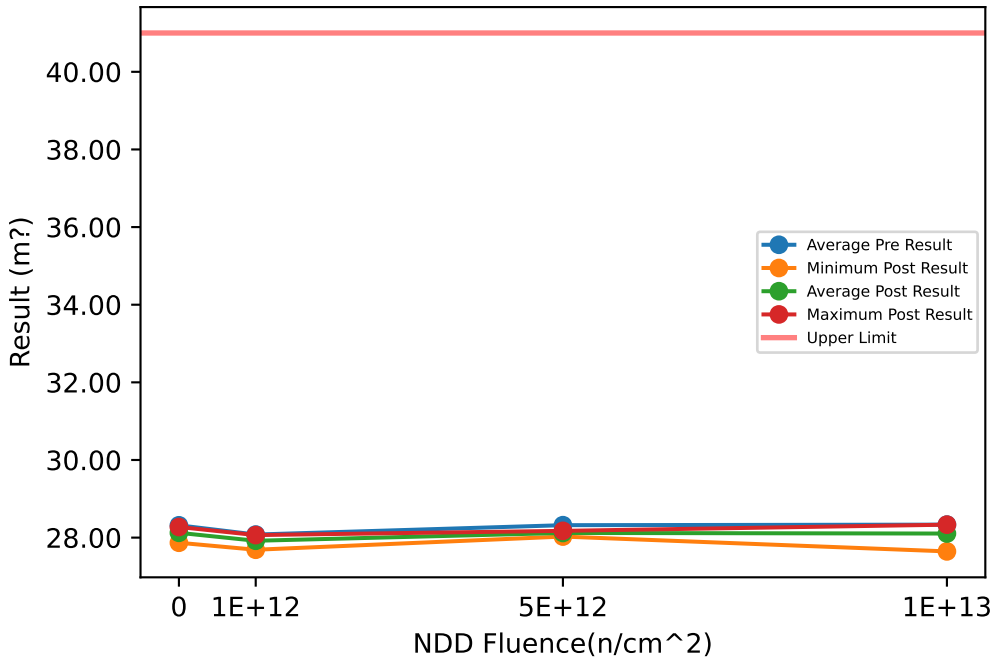
Test Results (Upper Limit = 36.0 (m?))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	25.737	25.688	-0.0486
101	1e+12	NDD	25.7	25.431	-0.2686
102	1e+12	NDD	25.637	25.569	-0.0682
103	1e+12	NDD	25.594	25.423	-0.171
104	5e+12	NDD	25.951	25.798	-0.1535
105	5e+12	NDD	25.795	25.529	-0.2661
106	5e+12	NDD	25.878	25.735	-0.1432
107	5e+12	NDD	25.829	25.777	-0.052
108	1e+13	NDD	25.436	25.432	-0.0034
109	1e+13	NDD	26.081	25.667	-0.4146
110	1e+13	NDD	26.065	25.962	-0.1034
111	1e+13	NDD	25.989	25.901	-0.0876
732	0	CORRELATION	26.02	25.81	-0.2096
742	0	CORRELATION	26.12	25.734	-0.3855
879	0	CORRELATION	25.605	25.494	-0.1108
880	0	CORRELATION	25.993	25.784	-0.2094

Test Statistics (m?)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	25.605	25.934	26.12	0.22636	25.494	25.705	25.81	0.1445	-0.3855	-0.22883	-0.1108	0.11434
1e+12	25.594	25.667	25.737	0.063776	25.423	25.528	25.688	0.12626	-0.2686	-0.1391	-0.0486	0.10166
5e+12	25.795	25.864	25.951	0.067866	25.529	25.71	25.798	0.1233	-0.2661	-0.1537	-0.052	0.087725
1e+13	25.436	25.893	26.081	0.3075	25.432	25.741	25.962	0.24188	-0.4146	-0.15225	-0.0034	0.18032

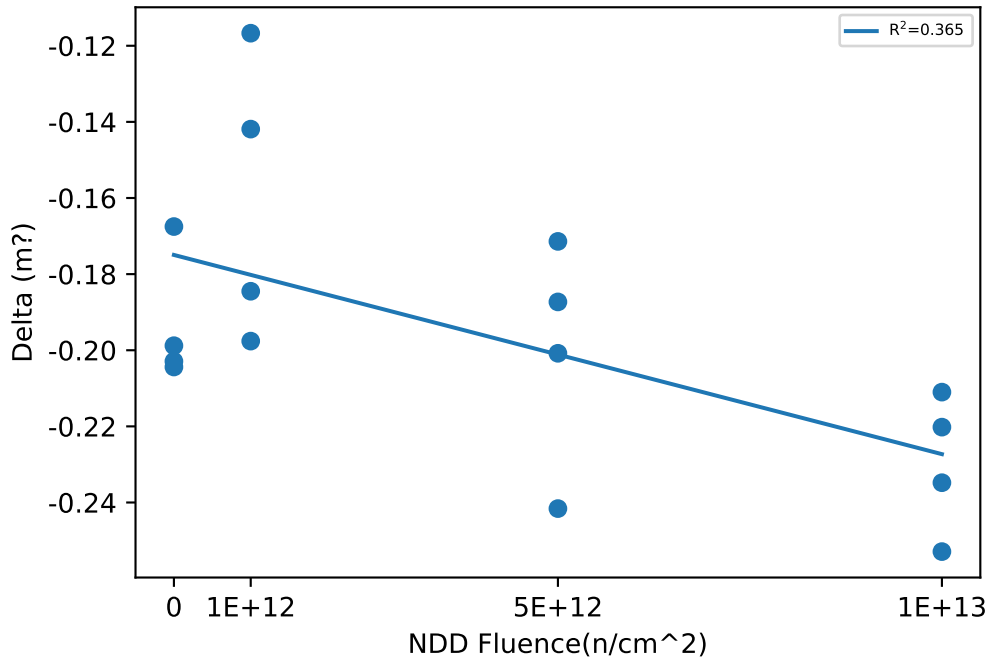
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	28.207	28.065	-0.1419
101	1e+12	NDD	28.099	27.982	-0.1167
102	1e+12	NDD	28.126	27.941	-0.1845
103	1e+12	NDD	27.885	27.688	-0.1976
104	5e+12	NDD	28.361	28.174	-0.1873
105	5e+12	NDD	28.311	28.14	-0.1714
106	5e+12	NDD	28.34	28.139	-0.2008
107	5e+12	NDD	28.269	28.027	-0.2416
108	1e+13	NDD	27.856	27.645	-0.211
109	1e+13	NDD	28.419	28.199	-0.2202
110	1e+13	NDD	28.586	28.333	-0.2529
111	1e+13	NDD	28.477	28.242	-0.2348
732	0	CORRELATION	28.477	28.274	-0.2029
742	0	CORRELATION	28.441	28.236	-0.2044
879	0	CORRELATION	28.035	27.868	-0.1675
880	0	CORRELATION	28.316	28.117	-0.1988

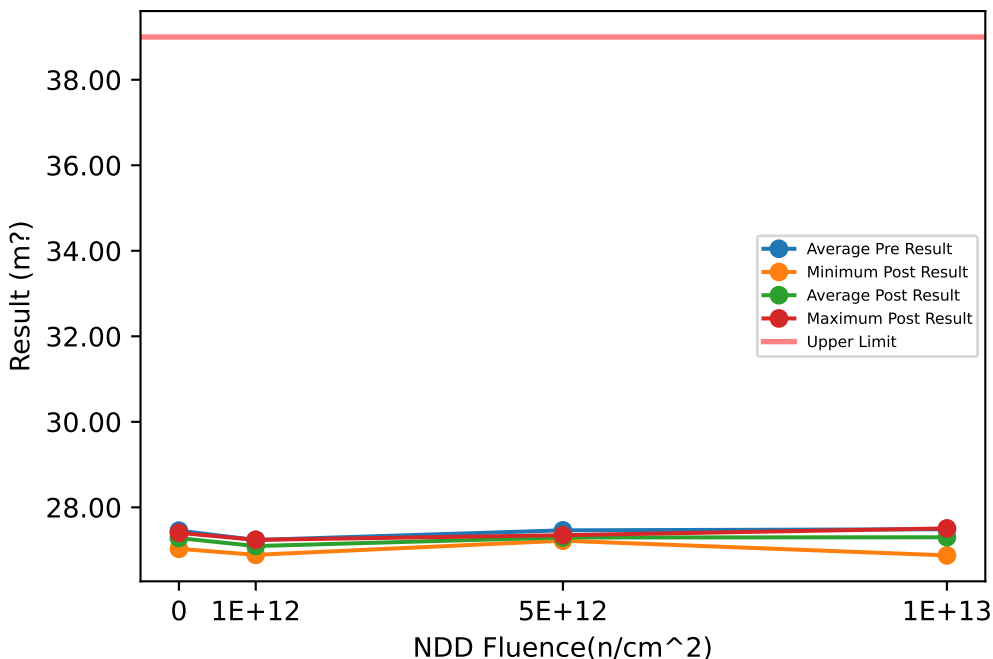
NDD vs Post - Pre Exposure Delta



Test Statistics (m?)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	28.035	28.317	28.477	0.20007	27.868	28.124	28.274	0.18318	-0.2044	-0.1934	-0.1675	0.017428
1e+12	27.885	28.079	28.207	0.1372	27.688	27.919	28.065	0.16259	-0.1976	-0.16018	-0.1167	0.037489
5e+12	28.269	28.32	28.361	0.040063	28.027	28.12	28.174	0.064089	-0.2416	-0.20027	-0.1714	0.030056
1e+13	27.856	28.335	28.586	0.3265	27.645	28.105	28.333	0.31165	-0.2529	-0.22973	-0.211	0.018296

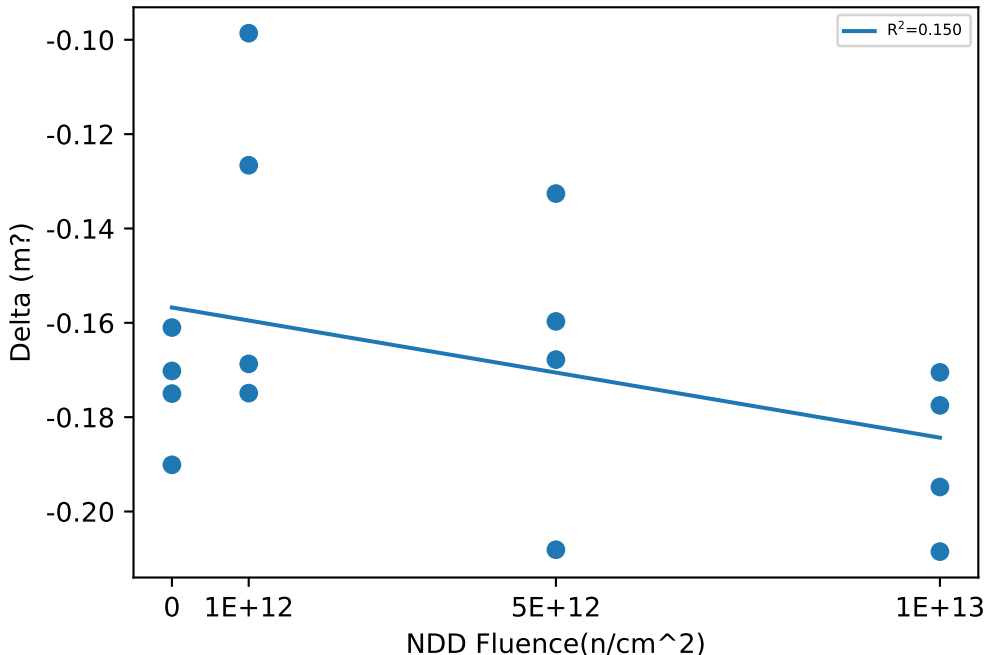
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	27.366	27.24	-0.1266
101	1e+12	NDD	27.243	27.144	-0.0986
102	1e+12	NDD	27.279	27.104	-0.1749
103	1e+12	NDD	27.058	26.889	-0.1687
104	5e+12	NDD	27.481	27.348	-0.1326
105	5e+12	NDD	27.461	27.301	-0.1597
106	5e+12	NDD	27.479	27.312	-0.1678
107	5e+12	NDD	27.428	27.22	-0.2081
108	1e+13	NDD	27.047	26.876	-0.1705
109	1e+13	NDD	27.569	27.392	-0.1775
110	1e+13	NDD	27.717	27.508	-0.2085
111	1e+13	NDD	27.619	27.424	-0.1948
732	0	CORRELATION	27.572	27.397	-0.175
742	0	CORRELATION	27.594	27.404	-0.1901
879	0	CORRELATION	27.191	27.03	-0.161
880	0	CORRELATION	27.463	27.293	-0.1702

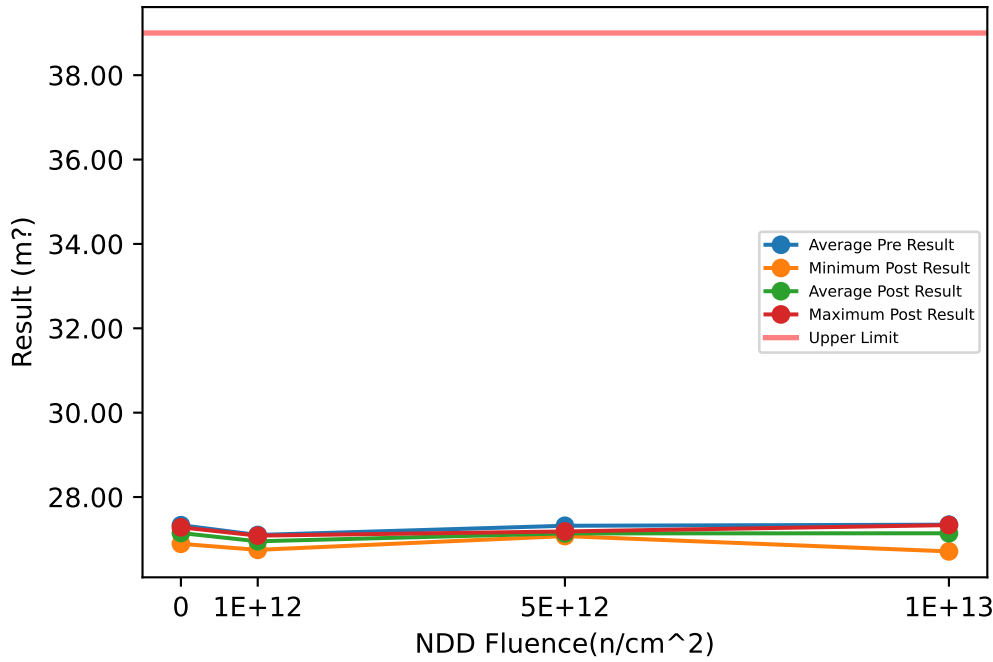
NDD vs Post - Pre Exposure Delta



Test Statistics (m?)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	27.191	27.455	27.594	0.18497	27.03	27.281	27.404	0.17471	-0.1901	-0.17408	-0.161	0.01216
1e+12	27.058	27.236	27.366	0.13002	26.889	27.094	27.24	0.14824	-0.1749	-0.1422	-0.0986	0.036129
5e+12	27.428	27.462	27.481	0.024493	27.22	27.295	27.348	0.054015	-0.2081	-0.16705	-0.1326	0.031233
1e+13	27.047	27.488	27.717	0.30036	26.876	27.3	27.508	0.28673	-0.2085	-0.18783	-0.1705	0.017155

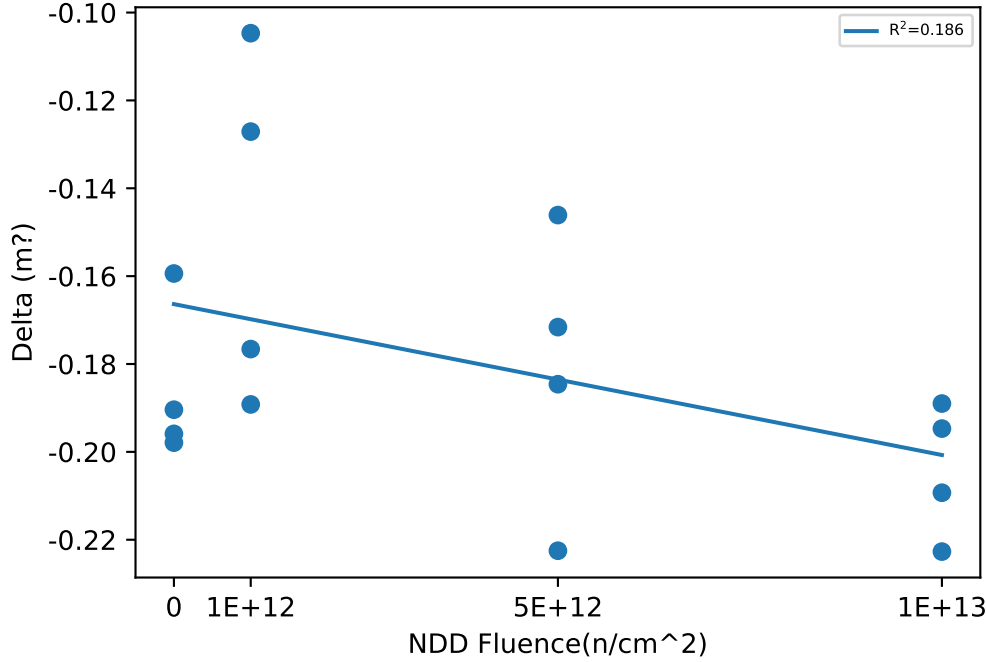
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	27.212	27.085	-0.1271
101	1e+12	NDD	27.11	27.005	-0.1047
102	1e+12	NDD	27.144	26.967	-0.1766
103	1e+12	NDD	26.937	26.747	-0.1892
104	5e+12	NDD	27.356	27.184	-0.1716
105	5e+12	NDD	27.287	27.141	-0.1461
106	5e+12	NDD	27.337	27.152	-0.1846
107	5e+12	NDD	27.297	27.074	-0.2225
108	1e+13	NDD	26.9	26.711	-0.189
109	1e+13	NDD	27.449	27.254	-0.1947
110	1e+13	NDD	27.557	27.334	-0.2227
111	1e+13	NDD	27.472	27.263	-0.2093
732	0	CORRELATION	27.445	27.249	-0.1959
742	0	CORRELATION	27.48	27.282	-0.1979
879	0	CORRELATION	27.05	26.891	-0.1594
880	0	CORRELATION	27.355	27.165	-0.1904

NDD vs Post - Pre Exposure Delta

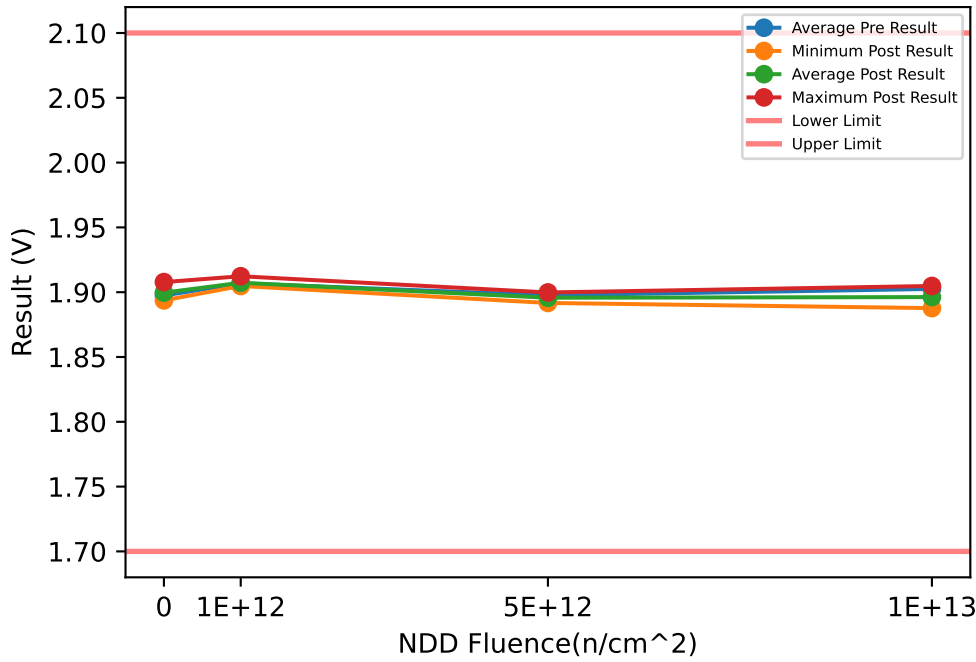


Test Statistics (m?)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	27.05	27.333	27.48	0.19549	26.891	27.147	27.282	0.17762	-0.1979	-0.1859	-0.1594	0.017949
1e+12	26.937	27.101	27.212	0.11721	26.747	26.951	27.085	0.14438	-0.1892	-0.1494	-0.1047	0.04008
5e+12	27.287	27.319	27.356	0.032507	27.074	27.138	27.184	0.046249	-0.2225	-0.1812	-0.1461	0.03184
1e+13	26.9	27.345	27.557	0.29986	26.711	27.141	27.334	0.28853	-0.2227	-0.20393	-0.189	0.015157

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

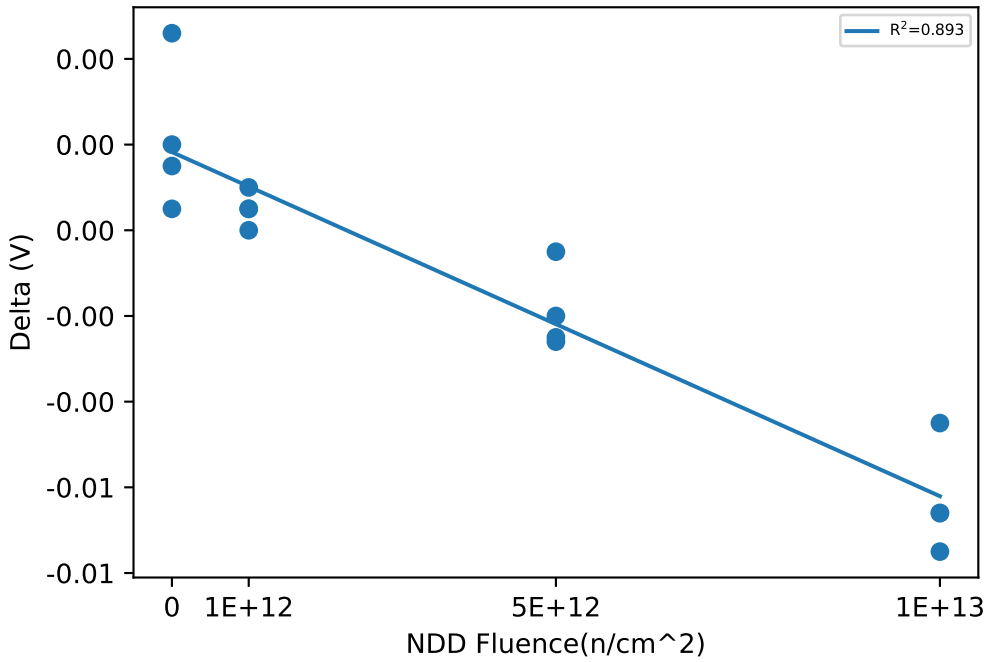
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.9058	1.9068	0.001
101	1e+12	NDD	1.9118	1.9123	0.0005
102	1e+12	NDD	1.9048	1.9048	0
103	1e+12	NDD	1.9048	1.9053	0.0005
104	5e+12	NDD	1.9018	1.8998	-0.002
105	5e+12	NDD	1.8998	1.8972	-0.0026
106	5e+12	NDD	1.8947	1.8942	-0.0005
107	5e+12	NDD	1.8942	1.8917	-0.0025
108	1e+13	NDD	1.9123	1.9048	-0.0075
109	1e+13	NDD	1.9033	1.8967	-0.0066
110	1e+13	NDD	1.8922	1.8877	-0.0045
111	1e+13	NDD	1.9023	1.8957	-0.0066
732	0	CORRELATION	1.8922	1.8937	0.0015
742	0	CORRELATION	1.8972	1.8977	0.0005
879	0	CORRELATION	1.8947	1.8993	0.0046
880	0	CORRELATION	1.9058	1.9078	0.002

NDD vs Post - Pre Exposure Delta

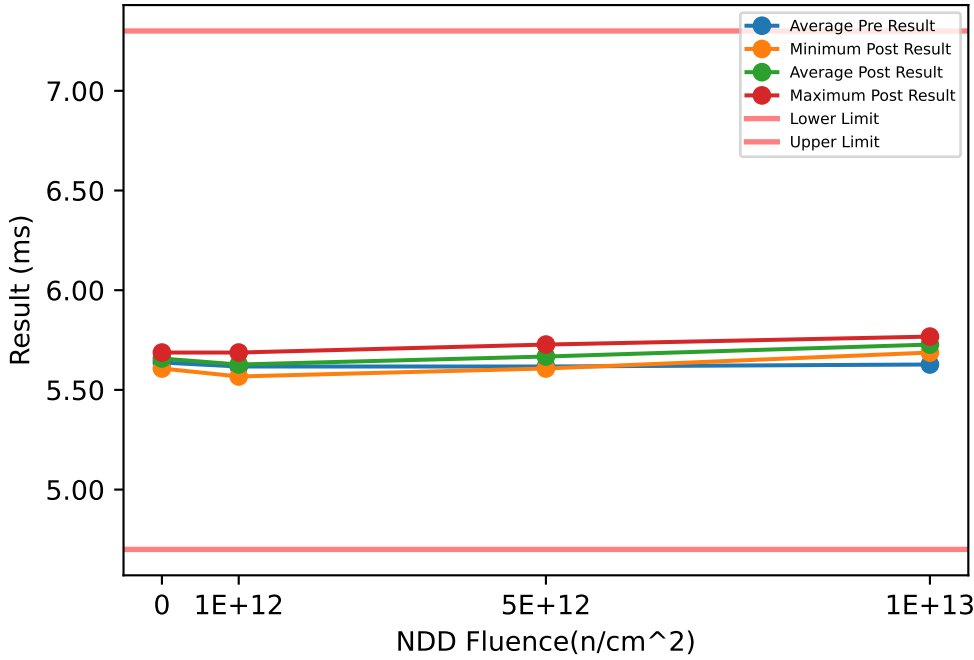


Test Statistics (V)

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	1.8922	1.8975	1.9058	0.0059135	1.8937	1.8996	1.9078	0.0059371	0.0005	0.00215	0.0046	0.0017483
1e+12	1.9048	1.9068	1.9118	0.0033665	1.9048	1.9073	1.9123	0.00344	0	0.0005	0.001	0.00040825
5e+12	1.8942	1.8976	1.9018	0.0037615	1.8917	1.8957	1.8998	0.0035264	-0.0026	-0.0019	-0.0005	0.00096954
1e+13	1.8922	1.9025	1.9123	0.0082221	1.8877	1.8962	1.9048	0.006993	-0.0075	-0.0063	-0.0045	0.0012728

Device Test: 22.12 TIMING|STARTUP/SS_TR/5////@T_SS_22NF

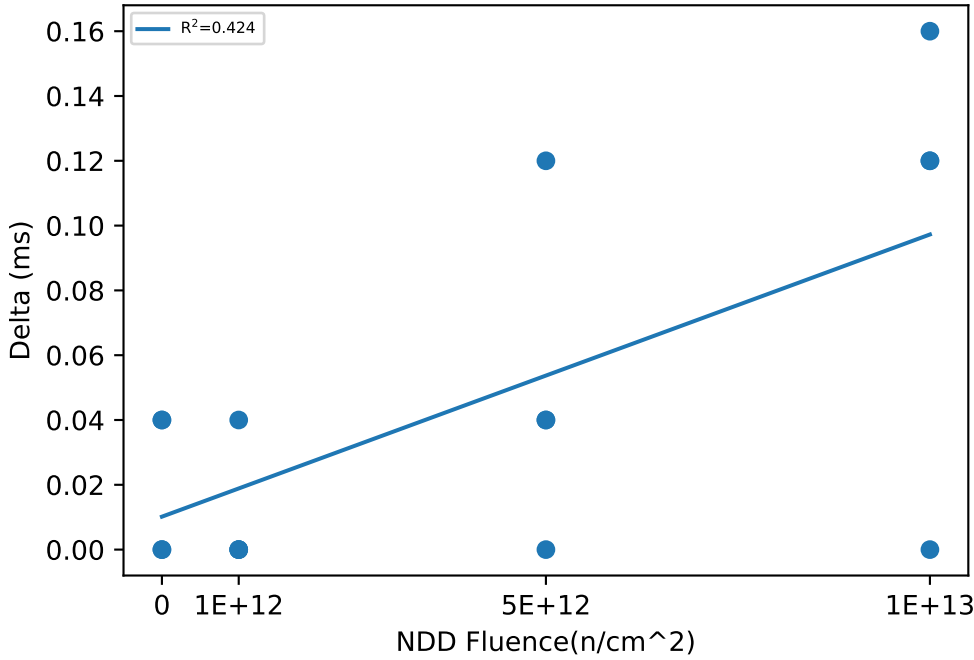
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5.5673	5.5673	0
101	1e+12	NDD	5.6473	5.6873	0.04
102	1e+12	NDD	5.6073	5.6073	0
103	1e+12	NDD	5.6473	5.6473	0
104	5e+12	NDD	5.6073	5.6073	0
105	5e+12	NDD	5.5673	5.6873	0.12
106	5e+12	NDD	5.6873	5.7273	0.04
107	5e+12	NDD	5.6073	5.6473	0.04
108	1e+13	NDD	5.6873	5.6873	0
109	1e+13	NDD	5.6073	5.7673	0.16
110	1e+13	NDD	5.6073	5.7273	0.12
111	1e+13	NDD	5.6073	5.7273	0.12
732	0	CORRELATION	5.6473	5.6473	0
742	0	CORRELATION	5.6473	5.6873	0.04
879	0	CORRELATION	5.6473	5.6873	0.04
880	0	CORRELATION	5.6073	5.6073	0

NDD vs Post - Pre Exposure Delta

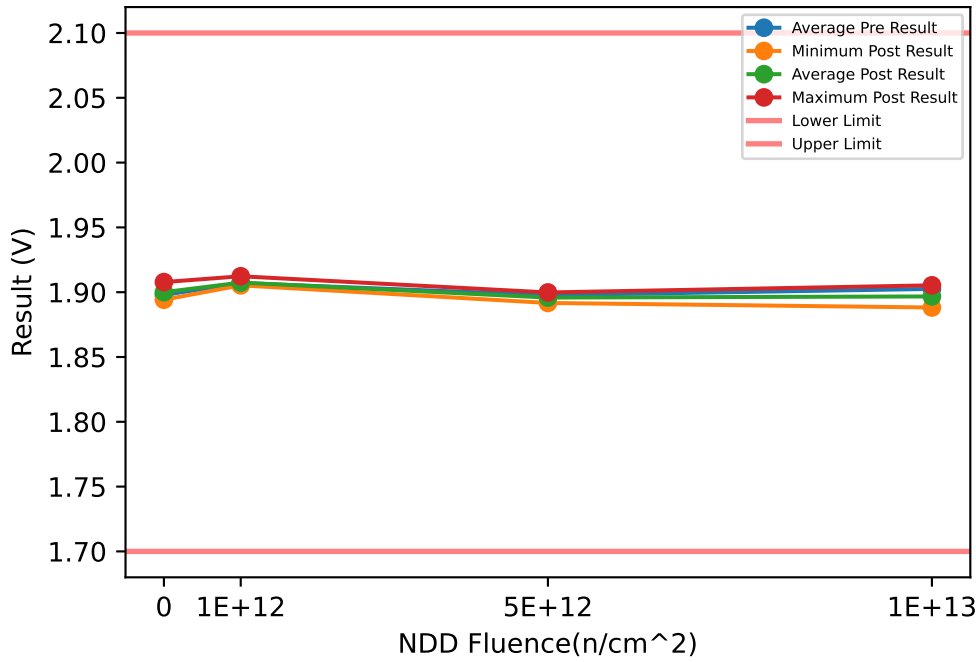


Test Statistics (ms)

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	5.6073	5.6373	5.6473	0.02	5.6073	5.6573	5.6873	0.038297	0	0.02	0.04	0.023094
1e+12	5.5673	5.6173	5.6473	0.038297	5.5673	5.6273	5.6873	0.05164	0	0.01	0.04	0.02
5e+12	5.5673	5.6173	5.6873	0.050332	5.6073	5.6673	5.7273	0.05164	0	0.05	0.12	0.050332
1e+13	5.6073	5.6273	5.6873	0.04	5.6873	5.7273	5.7673	0.03266	0	0.1	0.16	0.069282

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

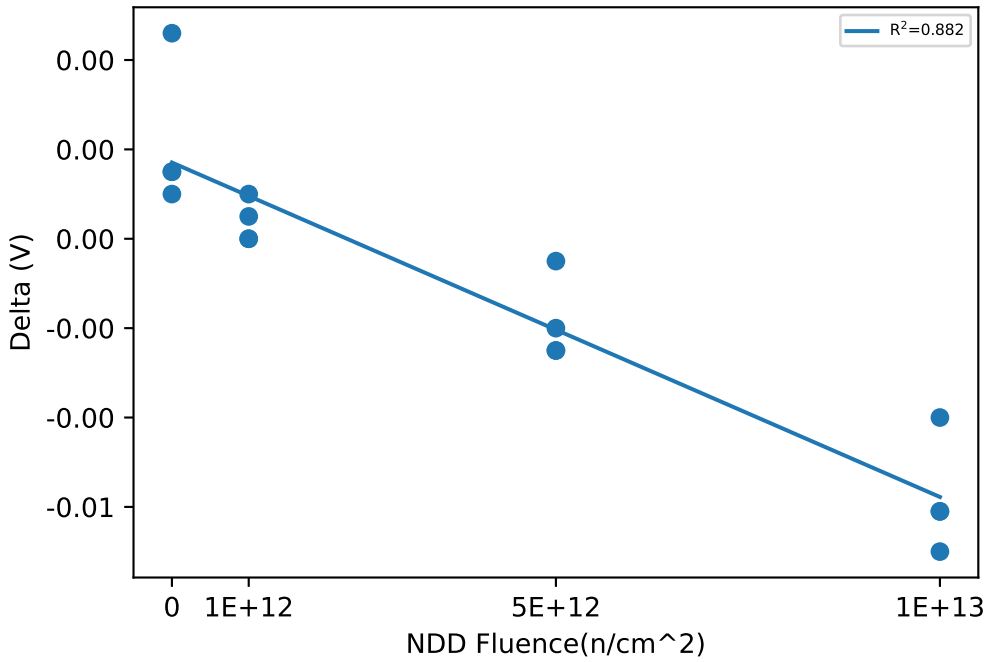
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.9063	1.9068	0.0005
101	1e+12	NDD	1.9123	1.9123	0
102	1e+12	NDD	1.9043	1.9053	0.001
103	1e+12	NDD	1.9053	1.9053	0
104	5e+12	NDD	1.9018	1.8998	-0.002
105	5e+12	NDD	1.9002	1.8977	-0.0025
106	5e+12	NDD	1.8947	1.8942	-0.0005
107	5e+12	NDD	1.8942	1.8917	-0.0025
108	1e+13	NDD	1.9123	1.9053	-0.007
109	1e+13	NDD	1.9033	1.8972	-0.0061
110	1e+13	NDD	1.8922	1.8882	-0.004
111	1e+13	NDD	1.9023	1.8962	-0.0061
732	0	CORRELATION	1.8927	1.8942	0.0015
742	0	CORRELATION	1.8972	1.8982	0.001
879	0	CORRELATION	1.8952	1.8998	0.0046
880	0	CORRELATION	1.9063	1.9078	0.0015

NDD vs Post - Pre Exposure Delta

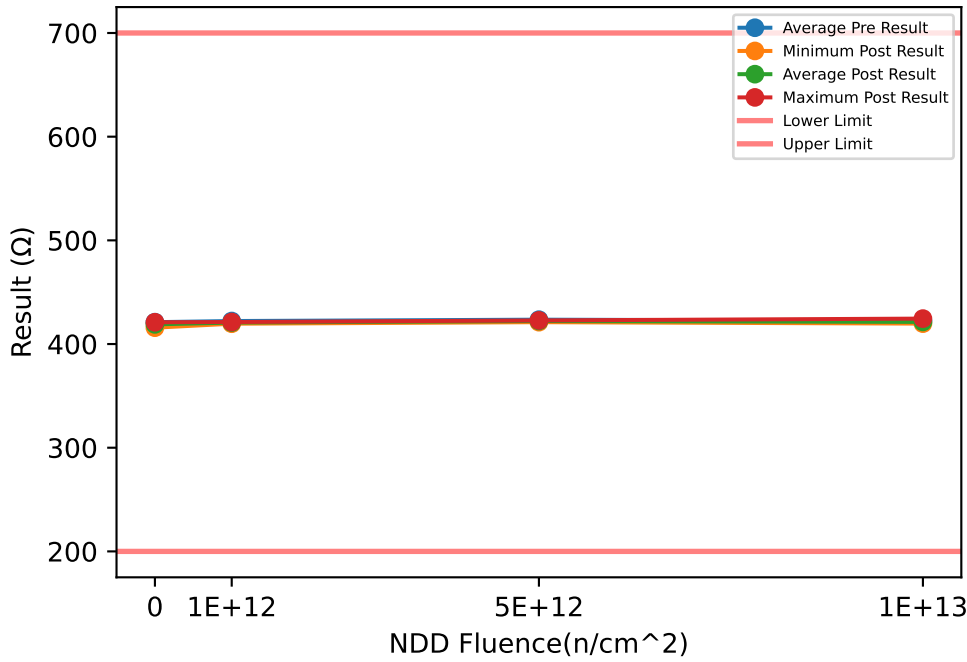


Test Statistics (V)

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	1.8927	1.8979	1.9063	0.0059265	1.8942	1.9	1.9078	0.0057085	0.001	0.00215	0.0046	0.0016503
1e+12	1.9043	1.9071	1.9123	0.003594	1.9053	1.9074	1.9123	0.003326	0	0.000375	0.001	0.00047871
5e+12	1.8942	1.8977	1.9018	0.0038431	1.8917	1.8959	1.8998	0.0036042	-0.0025	-0.001875	-0.0005	0.00094648
1e+13	1.8922	1.9025	1.9123	0.0082221	1.8882	1.8967	1.9053	0.006993	-0.007	-0.0058	-0.004	0.0012728

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

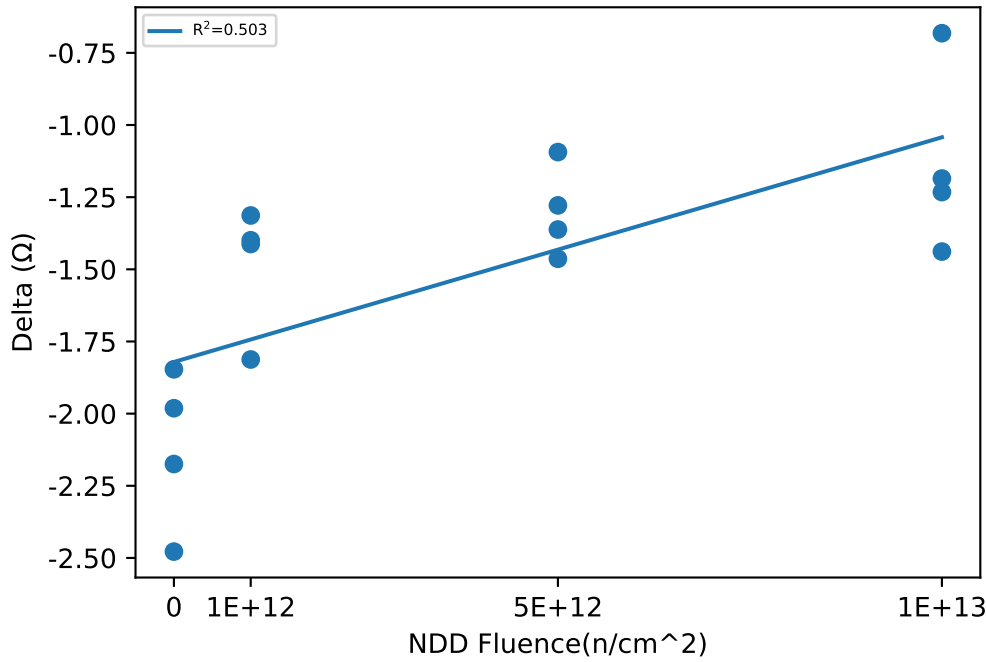
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	422.64	421.24	-1.3993
101	1e+12	NDD	422.4	421.08	-1.3134
102	1e+12	NDD	422.33	420.92	-1.4123
103	1e+12	NDD	421.41	419.6	-1.8124
104	5e+12	NDD	422.17	421.08	-1.0938
105	5e+12	NDD	423.84	422.47	-1.3621
106	5e+12	NDD	423.77	422.49	-1.2785
107	5e+12	NDD	424.24	422.78	-1.4634
108	1e+13	NDD	420.37	419.69	-0.6819
109	1e+13	NDD	422.58	421.35	-1.2324
110	1e+13	NDD	425.97	424.53	-1.4385
111	1e+13	NDD	421	419.82	-1.1855
732	0	CORRELATION	422.84	420.66	-2.1746
742	0	CORRELATION	423.48	421	-2.478
879	0	CORRELATION	417.62	415.78	-1.8465
880	0	CORRELATION	420.41	418.43	-1.9813

NDD vs Post - Pre Exposure Delta

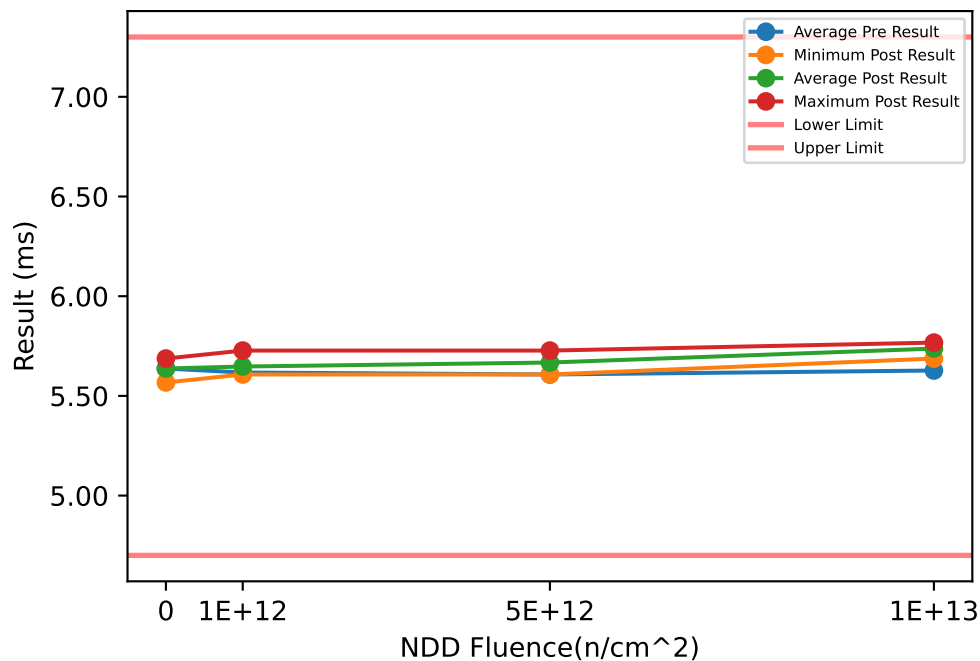


Test Statistics (Ω)

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	417.62	421.09	423.48	2.6616	415.78	418.97	421	2.4146	-2.478	-2.1201	-1.8465	0.27397
1e+12	421.41	422.19	422.64	0.53804	419.6	420.71	421.24	0.75175	-1.8124	-1.4844	-1.3134	0.22306
5e+12	422.17	423.51	424.24	0.9124	421.08	422.21	422.78	0.76415	-1.4634	-1.2995	-1.0938	0.15656
1e+13	420.37	422.48	425.97	2.5047	419.69	421.35	424.53	2.2531	-1.4385	-1.1346	-0.6819	0.32117

Device Test: 22.19 TIMING|STARTUP/SS_TR/12////@T_SS_22NF

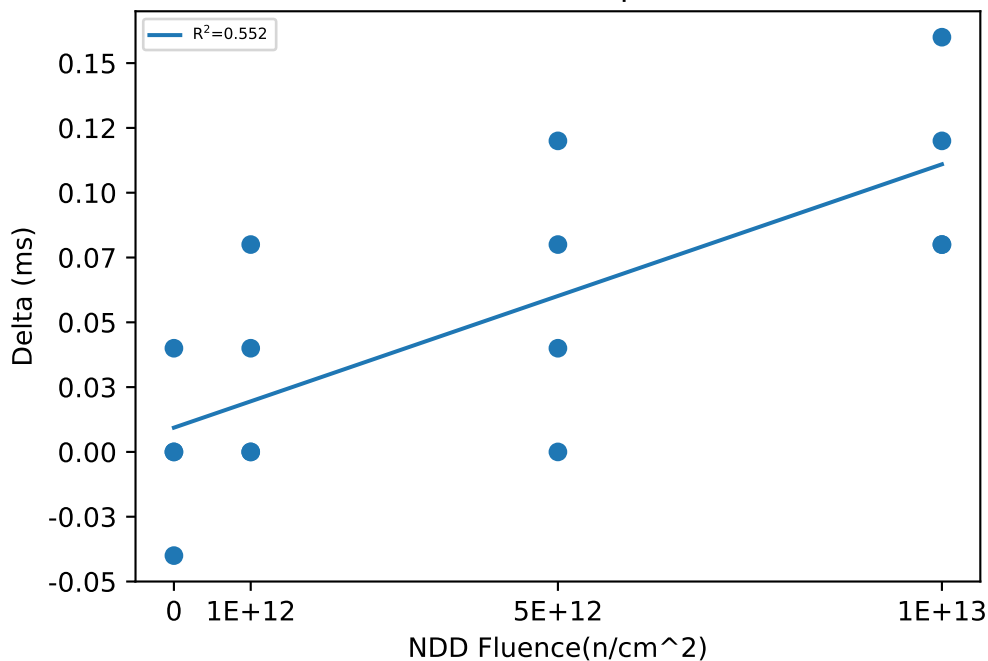
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5.5673	5.6073	0.04
101	1e+12	NDD	5.6473	5.7273	0.08
102	1e+12	NDD	5.6073	5.6073	0
103	1e+12	NDD	5.6473	5.6473	0
104	5e+12	NDD	5.6073	5.6073	0
105	5e+12	NDD	5.5673	5.6873	0.12
106	5e+12	NDD	5.6873	5.7273	0.04
107	5e+12	NDD	5.5673	5.6473	0.08
108	1e+13	NDD	5.6473	5.7673	0.12
109	1e+13	NDD	5.6073	5.7673	0.16
110	1e+13	NDD	5.6073	5.6873	0.08
111	1e+13	NDD	5.6473	5.7273	0.08
732	0	CORRELATION	5.6473	5.6473	0
742	0	CORRELATION	5.6473	5.6873	0.04
879	0	CORRELATION	5.6473	5.6473	0
880	0	CORRELATION	5.6073	5.5673	-0.04

NDD vs Post - Pre Exposure Delta

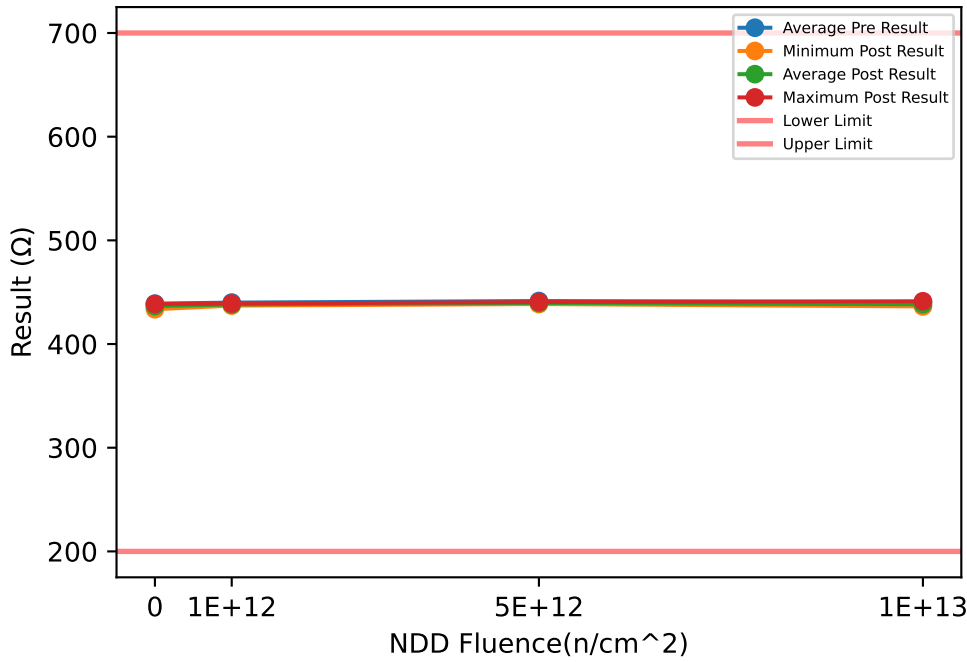


Test Statistics (ms)

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	5.6073	5.6373	5.6473	0.02	5.5673	5.6373	5.6873	0.050332	-0.04	-2.2204e-16	0.04	0.03266
1e+12	5.5673	5.6173	5.6473	0.038297	5.6073	5.6473	5.7273	0.056569	0	0.03	0.08	0.038297
5e+12	5.5673	5.6073	5.6873	0.056569	5.6073	5.6673	5.7273	0.05164	0	0.06	0.12	0.05164
1e+13	5.6073	5.6273	5.6473	0.023094	5.6873	5.7373	5.7673	0.038297	0.08	0.11	0.16	0.038297

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

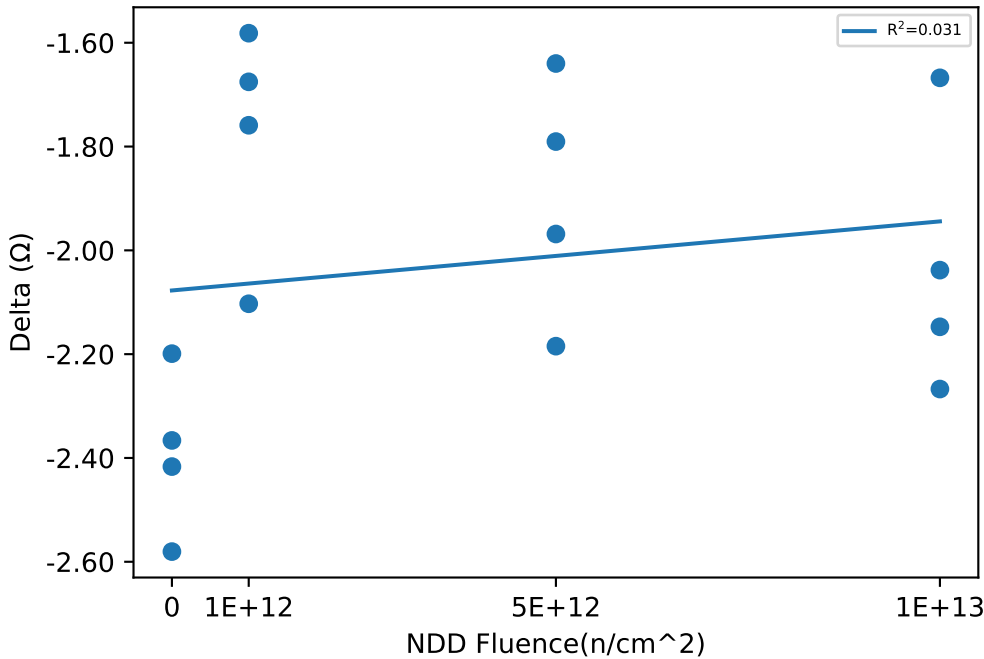
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	440.71	439.03	-1.6753
101	1e+12	NDD	439.88	438.29	-1.5816
102	1e+12	NDD	440.17	438.41	-1.759
103	1e+12	NDD	439.17	437.07	-2.1029
104	5e+12	NDD	440.19	438.55	-1.64
105	5e+12	NDD	441.75	439.79	-1.9685
106	5e+12	NDD	442.27	440.48	-1.7904
107	5e+12	NDD	441.76	439.58	-2.1846
108	1e+13	NDD	437.94	436.27	-1.6676
109	1e+13	NDD	440.51	438.47	-2.0381
110	1e+13	NDD	443.52	441.26	-2.2672
111	1e+13	NDD	439.61	437.46	-2.1473
732	0	CORRELATION	440.46	438.05	-2.4166
742	0	CORRELATION	441.14	438.56	-2.5804
879	0	CORRELATION	435.77	433.57	-2.199
880	0	CORRELATION	438.48	436.11	-2.3662

NDD vs Post - Pre Exposure Delta

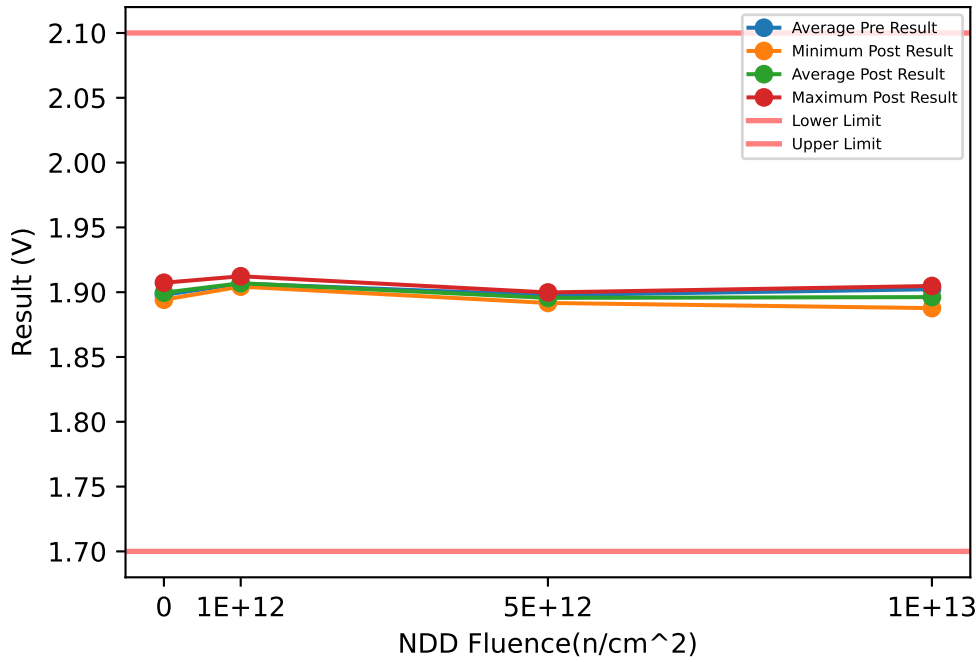


Test Statistics (Ω)

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	435.77	438.96	441.14	2.4081	433.57	436.57	438.56	2.2598	-2.5804	-2.3906	-2.199	0.15706
1e+12	439.17	439.98	440.71	0.64089	437.07	438.2	439.03	0.82223	-2.1029	-1.7797	-1.5816	0.22732
5e+12	440.19	441.49	442.27	0.90136	438.55	439.6	440.48	0.79704	-2.1846	-1.8959	-1.64	0.23469
1e+13	437.94	440.4	443.52	2.3424	436.27	438.37	441.26	2.1275	-2.2672	-2.0301	-1.6676	0.25912

Device Test: 22.22 LEVEL|RISE/COMP/14////@V_COMP_SD

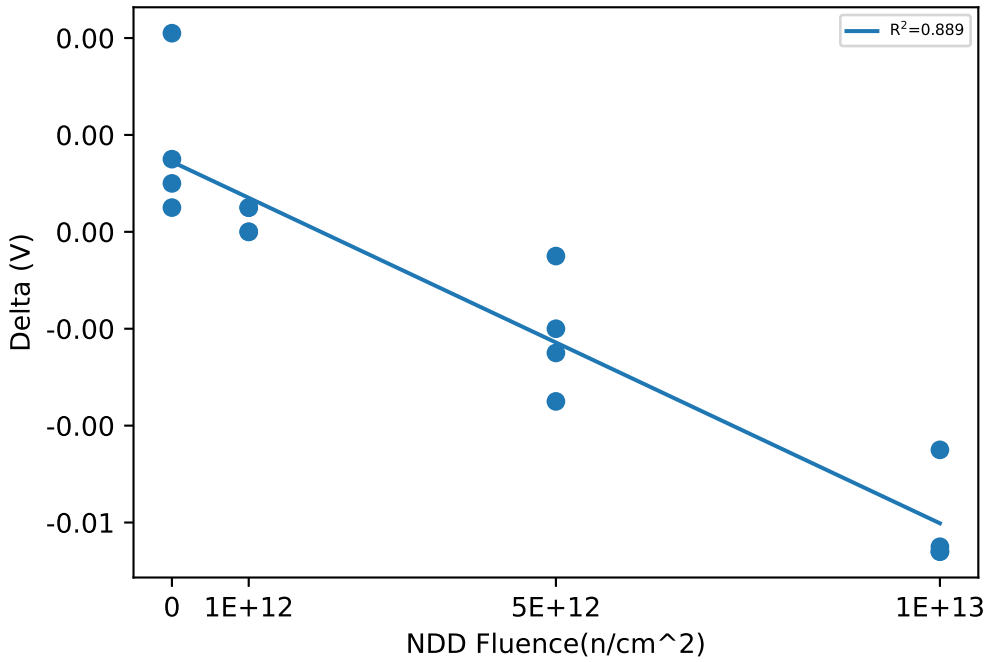
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.9058	1.9058	0
101	1e+12	NDD	1.9118	1.9123	0.0005
102	1e+12	NDD	1.9043	1.9043	0
103	1e+12	NDD	1.9048	1.9053	0.0005
104	5e+12	NDD	1.9018	1.8998	-0.002
105	5e+12	NDD	1.9002	1.8967	-0.0035
106	5e+12	NDD	1.8947	1.8942	-0.0005
107	5e+12	NDD	1.8942	1.8917	-0.0025
108	1e+13	NDD	1.9113	1.9048	-0.0065
109	1e+13	NDD	1.9033	1.8967	-0.0066
110	1e+13	NDD	1.8922	1.8877	-0.0045
111	1e+13	NDD	1.9023	1.8957	-0.0066
732	0	CORRELATION	1.8927	1.8942	0.0015
742	0	CORRELATION	1.8972	1.8977	0.0005
879	0	CORRELATION	1.8952	1.8993	0.0041
880	0	CORRELATION	1.9063	1.9073	0.001

NDD vs Post - Pre Exposure Delta

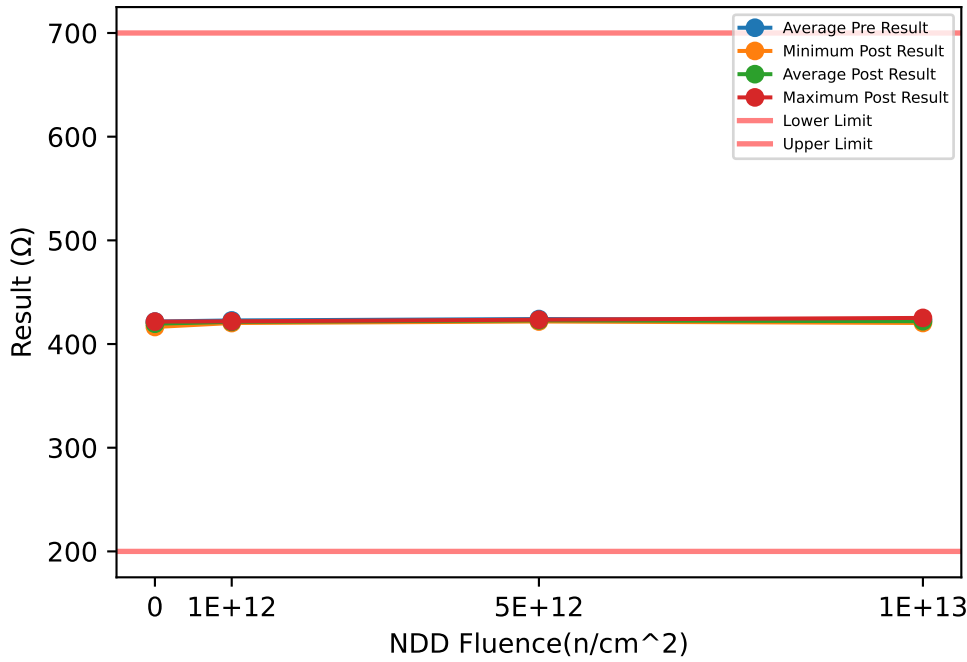


Test Statistics (V)

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	1.8927	1.8979	1.9063	0.0059265	1.8942	1.8996	1.9073	0.0055422	0.0005	0.001775	0.0041	0.0016029
1e+12	1.9043	1.9067	1.9118	0.0034731	1.9043	1.9069	1.9123	0.0036372	0	0.00025	0.0005	0.00028868
5e+12	1.8942	1.8977	1.9018	0.0038431	1.8917	1.8956	1.8998	0.0034651	-0.0035	-0.002125	-0.0005	0.00125
1e+13	1.8922	1.9023	1.9113	0.0078317	1.8877	1.8962	1.9048	0.006993	-0.0066	-0.00605	-0.0045	0.0010344

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

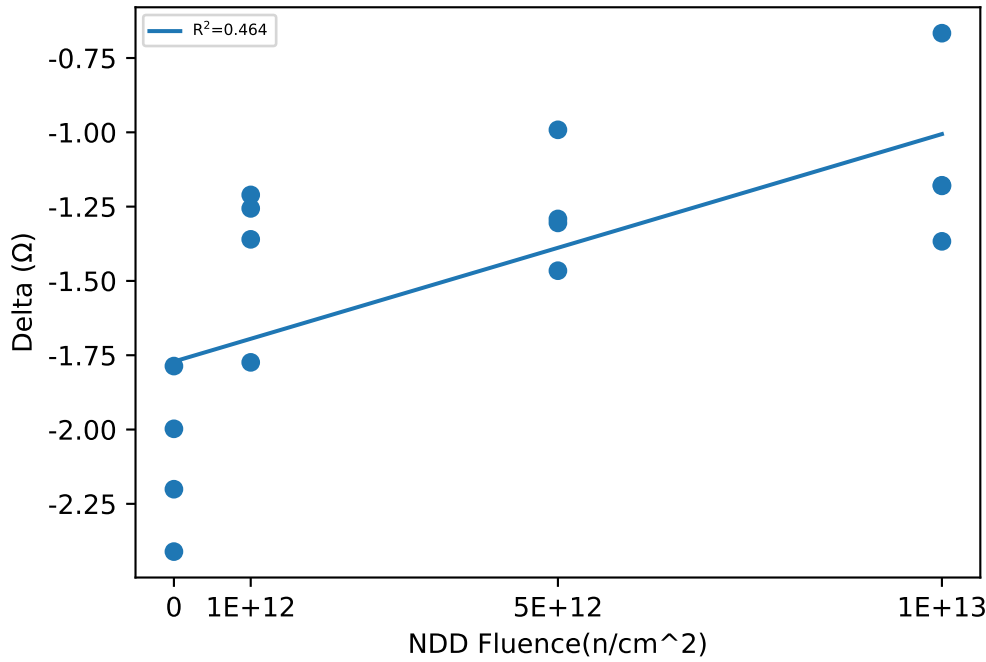
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	423.16	421.9	-1.256
101	1e+12	NDD	422.99	421.78	-1.2106
102	1e+12	NDD	422.92	421.56	-1.3601
103	1e+12	NDD	422.02	420.24	-1.774
104	5e+12	NDD	422.7	421.71	-0.9916
105	5e+12	NDD	424.38	423.07	-1.3048
106	5e+12	NDD	424.4	423.1	-1.2914
107	5e+12	NDD	424.94	423.48	-1.4656
108	1e+13	NDD	420.96	420.29	-0.6665
109	1e+13	NDD	423.2	422.02	-1.1802
110	1e+13	NDD	426.57	425.2	-1.3668
111	1e+13	NDD	421.71	420.53	-1.1782
732	0	CORRELATION	423.46	421.26	-2.2008
742	0	CORRELATION	424.06	421.65	-2.4107
879	0	CORRELATION	418.23	416.44	-1.7865
880	0	CORRELATION	421.05	419.05	-1.9976

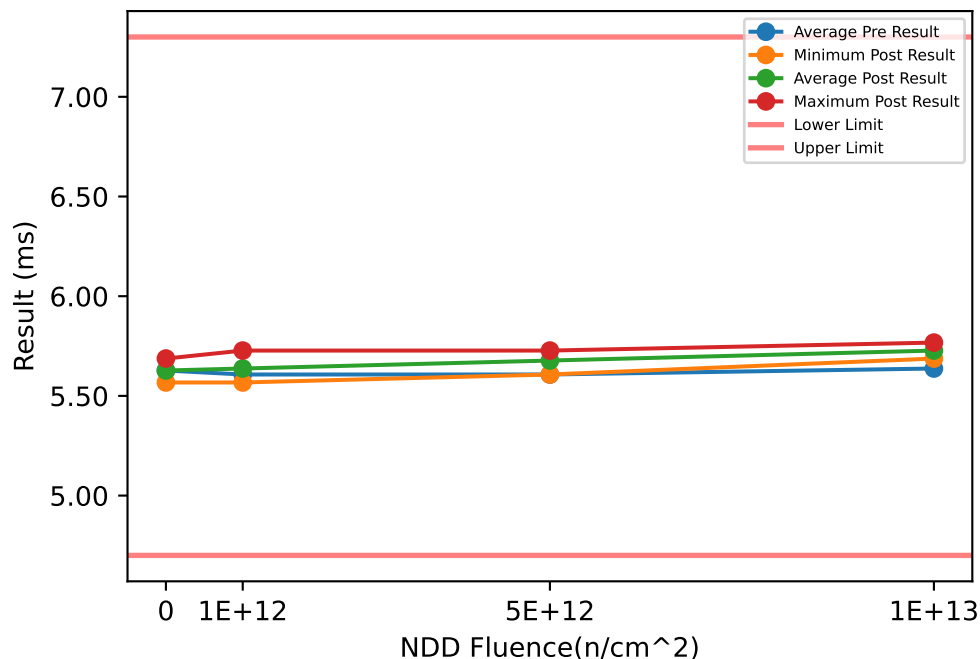
NDD vs Post - Pre Exposure Delta



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	418.23	421.7	424.06	2.6577	416.44	419.6	421.65	2.3993	-2.4107	-2.0989	-1.7865	0.26799
1e+12	422.02	422.77	423.16	0.51187	420.24	421.37	421.9	0.76462	-1.774	-1.4002	-1.2106	0.25695
5e+12	422.7	424.1	424.94	0.97096	421.71	422.84	423.48	0.77575	-1.4656	-1.2634	-0.9916	0.1977
1e+13	420.96	423.11	426.57	2.4886	420.29	422.01	425.2	2.2616	-1.3668	-1.0979	-0.6665	0.30091

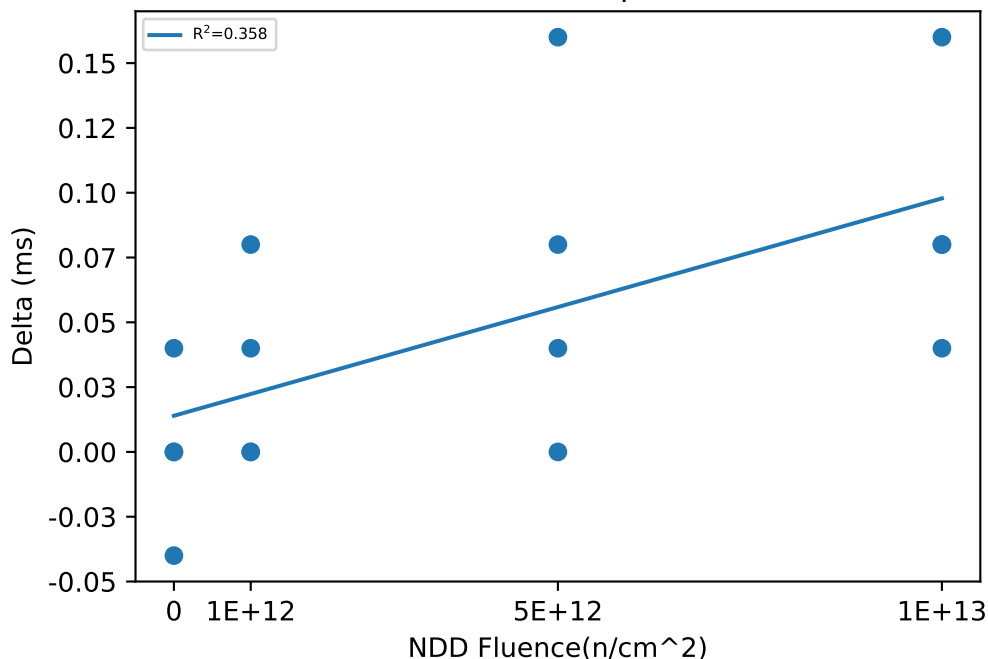
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5.5673	5.5673	0
101	1e+12	NDD	5.6473	5.7273	0.08
102	1e+12	NDD	5.6073	5.6073	0
103	1e+12	NDD	5.6073	5.6473	0.04
104	5e+12	NDD	5.6073	5.6073	0
105	5e+12	NDD	5.5673	5.7273	0.16
106	5e+12	NDD	5.6873	5.7273	0.04
107	5e+12	NDD	5.5673	5.6473	0.08
108	1e+13	NDD	5.6873	5.7273	0.04
109	1e+13	NDD	5.6073	5.7673	0.16
110	1e+13	NDD	5.6073	5.6873	0.08
111	1e+13	NDD	5.6473	5.7273	0.08
732	0	CORRELATION	5.6473	5.6073	-0.04
742	0	CORRELATION	5.6473	5.6873	0.04
879	0	CORRELATION	5.6473	5.6473	0
880	0	CORRELATION	5.5673	5.5673	0

NDD vs Post - Pre Exposure Delta

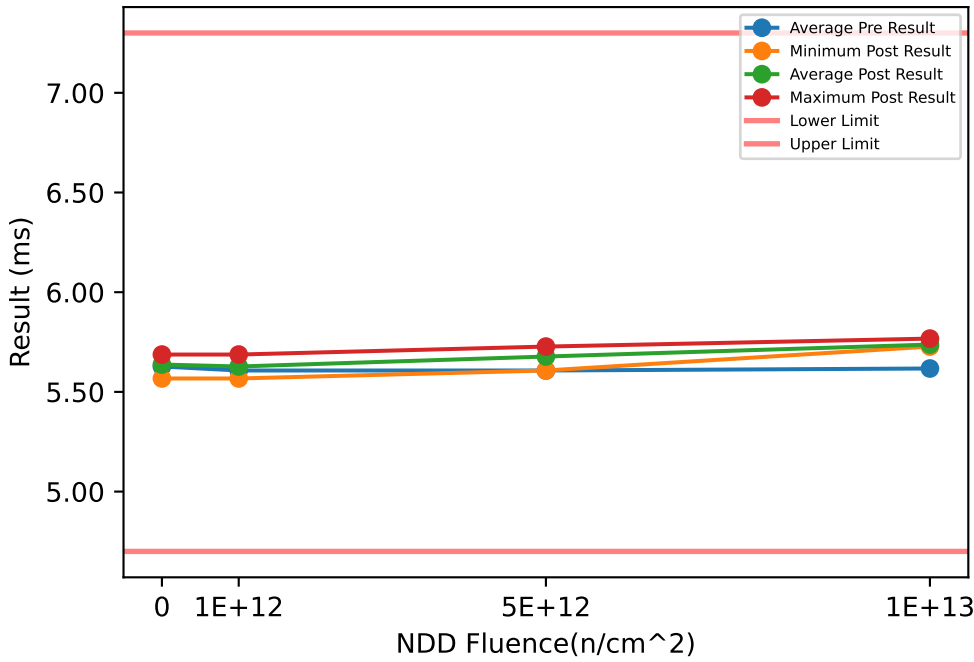


Test Statistics (ms)

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	5.5673	5.6273	5.6473	0.04	5.5673	5.6273	5.6873	0.05164	-0.04	-2.2204e-16	0.04	0.03266
1e+12	5.5673	5.6073	5.6473	0.03266	5.5673	5.6373	5.7273	0.068313	0	0.03	0.08	0.038297
5e+12	5.5673	5.6073	5.6873	0.056569	5.6073	5.6773	5.7273	0.06	0	0.07	0.16	0.068313
1e+13	5.6073	5.6373	5.6873	0.038297	5.6873	5.7273	5.7673	0.03266	0.04	0.09	0.16	0.050332

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

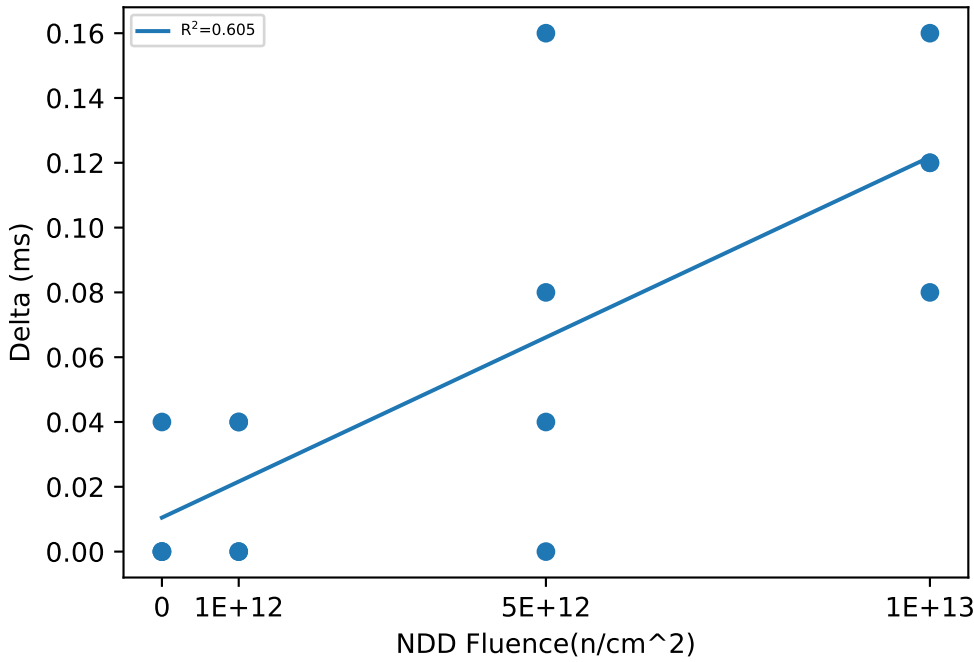
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5.5673	5.5673	0
101	1e+12	NDD	5.6473	5.6873	0.04
102	1e+12	NDD	5.5673	5.6073	0.04
103	1e+12	NDD	5.6473	5.6473	0
104	5e+12	NDD	5.6073	5.6073	0
105	5e+12	NDD	5.5673	5.7273	0.16
106	5e+12	NDD	5.6873	5.7273	0.04
107	5e+12	NDD	5.5673	5.6473	0.08
108	1e+13	NDD	5.6473	5.7273	0.08
109	1e+13	NDD	5.5673	5.7273	0.16
110	1e+13	NDD	5.6073	5.7273	0.12
111	1e+13	NDD	5.6473	5.7673	0.12
732	0	CORRELATION	5.6473	5.6473	0
742	0	CORRELATION	5.6473	5.6873	0.04
879	0	CORRELATION	5.6473	5.6473	0
880	0	CORRELATION	5.5673	5.5673	0

NDD vs Post - Pre Exposure Delta

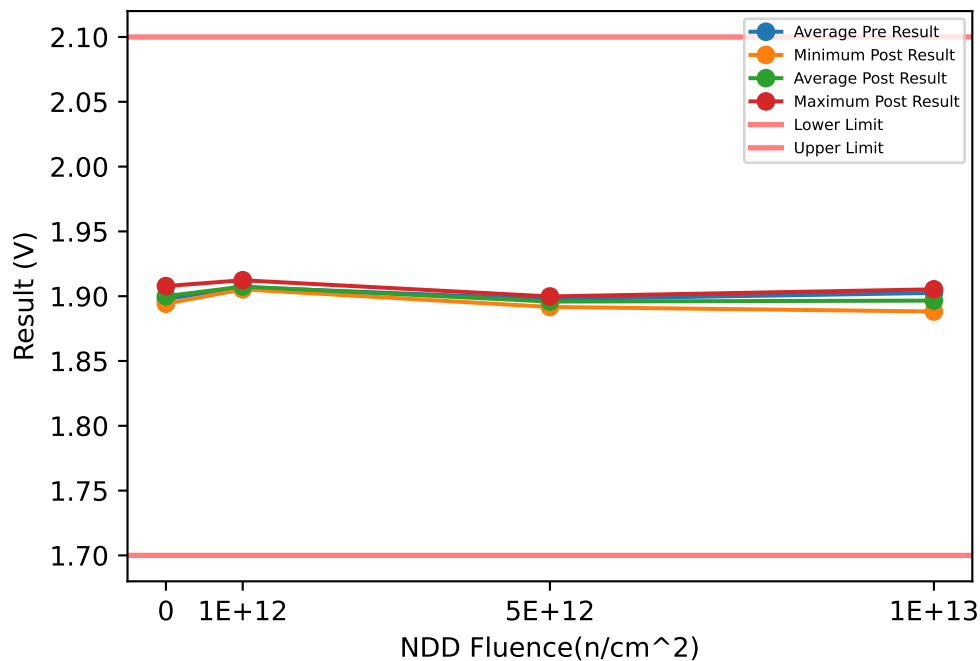


Test Statistics (ms)

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	5.5673	5.6273	5.6473	0.04	5.5673	5.6373	5.6873	0.050332	0	0.01	0.04	0.02
1e+12	5.5673	5.6073	5.6473	0.046188	5.5673	5.6273	5.6873	0.05164	0	0.02	0.04	0.023094
5e+12	5.5673	5.6073	5.6873	0.056569	5.6073	5.6773	5.7273	0.06	0	0.07	0.16	0.068313
1e+13	5.5673	5.6173	5.6473	0.038297	5.7273	5.7373	5.7673	0.02	0.08	0.12	0.16	0.03266

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

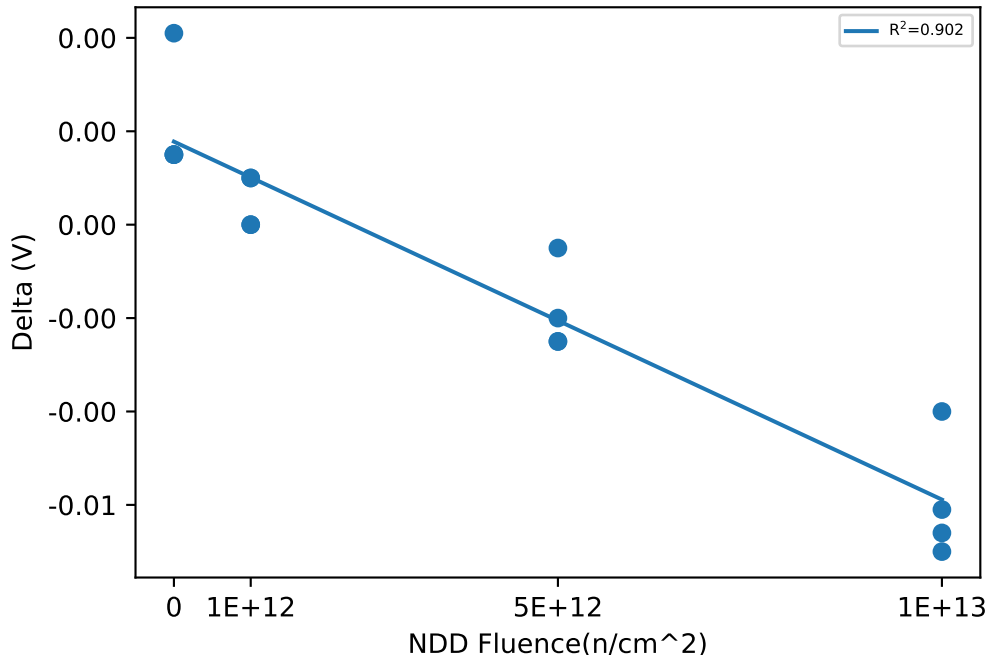
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.9058	1.9068	0.001
101	1e+12	NDD	1.9123	1.9123	0
102	1e+12	NDD	1.9043	1.9053	0.001
103	1e+12	NDD	1.9053	1.9053	0
104	5e+12	NDD	1.9018	1.8998	-0.002
105	5e+12	NDD	1.9002	1.8977	-0.0025
106	5e+12	NDD	1.8947	1.8942	-0.0005
107	5e+12	NDD	1.8942	1.8917	-0.0025
108	1e+13	NDD	1.9123	1.9053	-0.007
109	1e+13	NDD	1.9033	1.8967	-0.0066
110	1e+13	NDD	1.8922	1.8882	-0.004
111	1e+13	NDD	1.9023	1.8962	-0.0061
732	0	CORRELATION	1.8927	1.8942	0.0015
742	0	CORRELATION	1.8972	1.8987	0.0015
879	0	CORRELATION	1.8952	1.8993	0.0041
880	0	CORRELATION	1.9063	1.9078	0.0015

NDD vs Post - Pre Exposure Delta

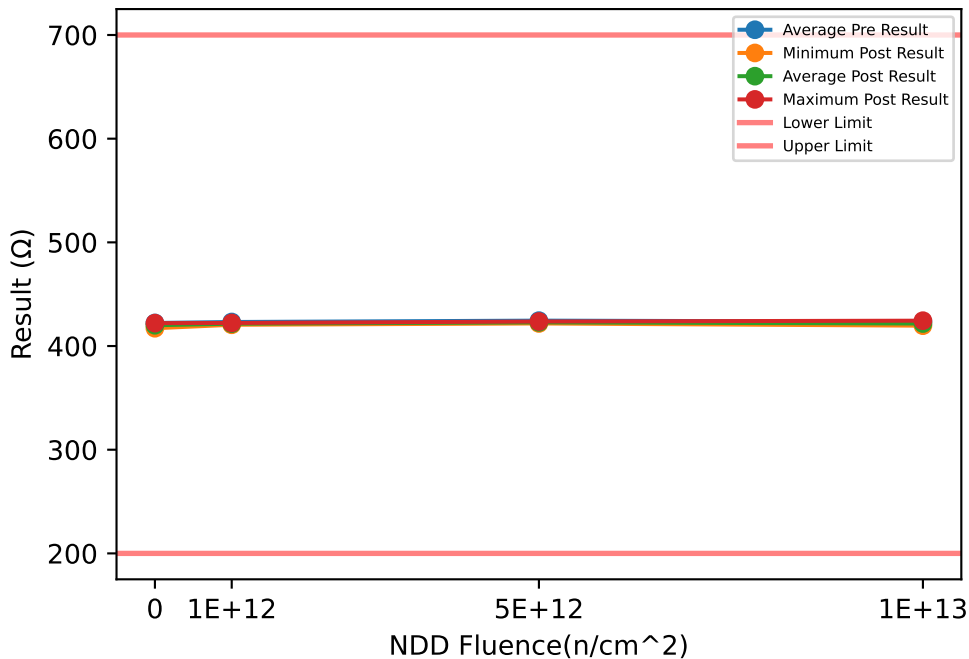


Test Statistics (V)

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	1.8927	1.8979	1.9063	0.0059265	1.8942	1.9	1.9078	0.0056763	0.0015	0.00215	0.0041	0.0013
1e+12	1.9043	1.9069	1.9123	0.0036372	1.9053	1.9074	1.9123	0.003326	0	0.0005	0.001	0.00057735
5e+12	1.8942	1.8977	1.9018	0.0038431	1.8917	1.8959	1.8998	0.0036042	-0.0025	-0.001875	-0.0005	0.00094648
1e+13	1.8922	1.9025	1.9123	0.0082221	1.8882	1.8966	1.9053	0.0069862	-0.007	-0.005925	-0.004	0.0013351

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

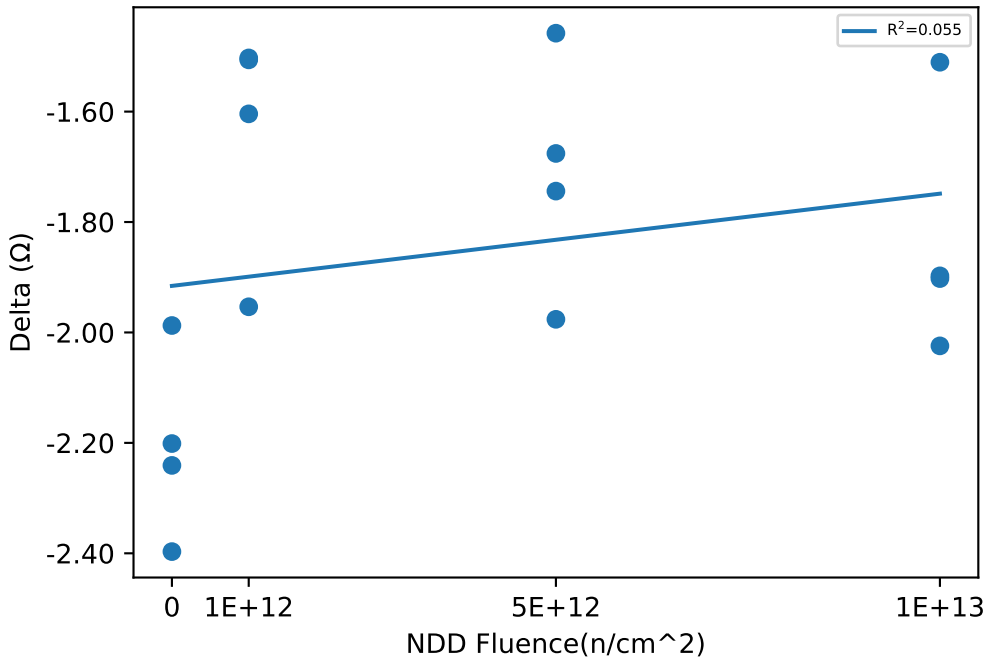
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	423.76	422.26	-1.5063
101	1e+12	NDD	423.09	421.59	-1.5028
102	1e+12	NDD	423.46	421.86	-1.6041
103	1e+12	NDD	422.45	420.5	-1.9535
104	5e+12	NDD	423.23	421.77	-1.458
105	5e+12	NDD	424.59	422.84	-1.744
106	5e+12	NDD	425.34	423.66	-1.6758
107	5e+12	NDD	424.9	422.92	-1.9762
108	1e+13	NDD	421.14	419.63	-1.5106
109	1e+13	NDD	423.69	421.79	-1.8975
110	1e+13	NDD	426.49	424.46	-2.0243
111	1e+13	NDD	422.85	420.95	-1.9024
732	0	CORRELATION	423.72	421.47	-2.2408
742	0	CORRELATION	424.49	422.09	-2.3969
879	0	CORRELATION	419.15	417.17	-1.9874
880	0	CORRELATION	421.66	419.45	-2.2012

NDD vs Post - Pre Exposure Delta

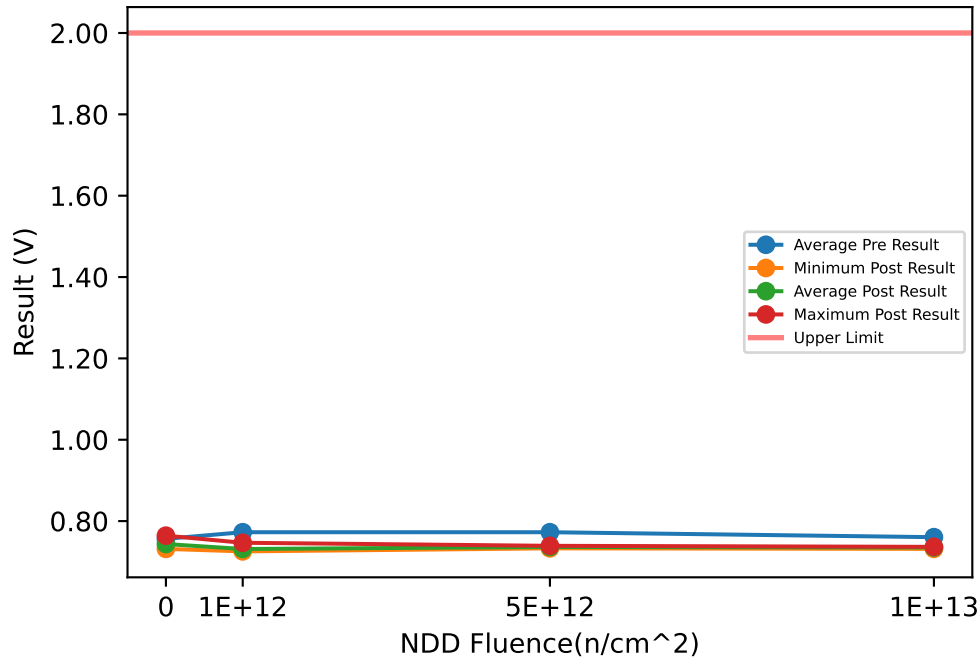


Test Statistics (Ω)

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	419.15	422.25	424.49	2.3868	417.17	420.05	422.09	2.2257	-2.3969	-2.2066	-1.9874	0.16878
1e+12	422.45	423.19	423.76	0.5651	420.5	421.55	422.26	0.75354	-1.9535	-1.6417	-1.5028	0.21312
5e+12	423.23	424.51	425.34	0.91131	421.77	422.8	423.66	0.78018	-1.9762	-1.7135	-1.458	0.21342
1e+13	421.14	423.54	426.49	2.23	419.63	421.71	424.46	2.039	-2.0243	-1.8337	-1.5106	0.22324

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

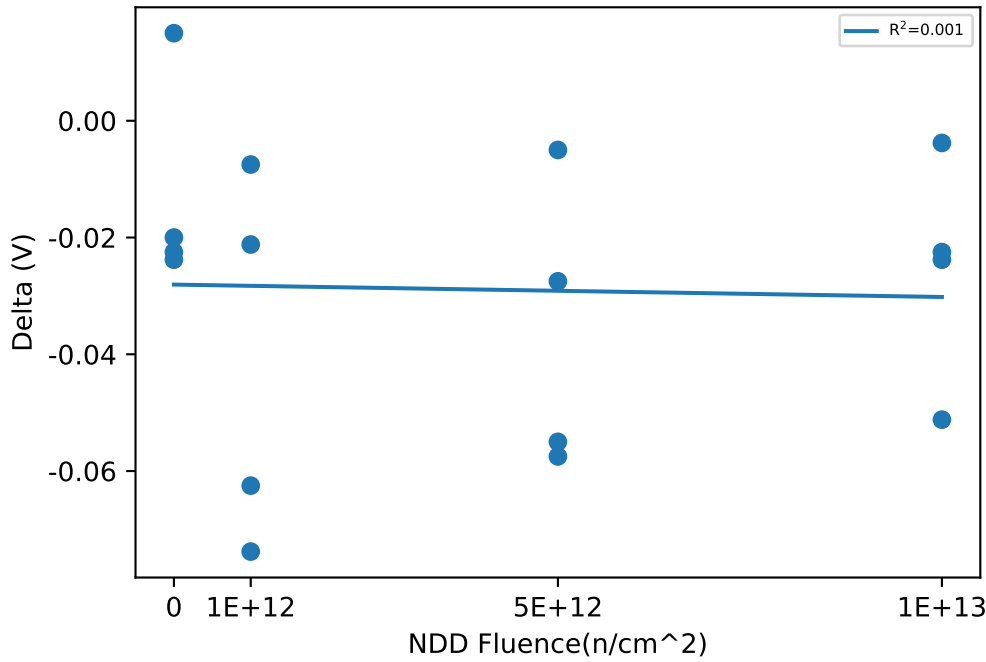
NDD vs Result Stats



Test Results (Upper Limit = 2.0 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.8205	0.7467	-0.0738
101	1e+12	NDD	0.7892	0.7267	-0.0625
102	1e+12	NDD	0.7467	0.7255	-0.0212
103	1e+12	NDD	0.7342	0.7267	-0.0075
104	5e+12	NDD	0.7967	0.7392	-0.0575
105	5e+12	NDD	0.7892	0.7342	-0.055
106	5e+12	NDD	0.7605	0.733	-0.0275
107	5e+12	NDD	0.7442	0.7392	-0.005
108	1e+13	NDD	0.7867	0.7355	-0.0512
109	1e+13	NDD	0.7605	0.7367	-0.0238
110	1e+13	NDD	0.7592	0.7367	-0.0225
111	1e+13	NDD	0.7355	0.7317	-0.0038
732	0	CORRELATION	0.788	0.7642	-0.0238
742	0	CORRELATION	0.7655	0.7455	-0.02
879	0	CORRELATION	0.7555	0.733	-0.0225
880	0	CORRELATION	0.7167	0.7317	0.015

NDD vs Post - Pre Exposure Delta

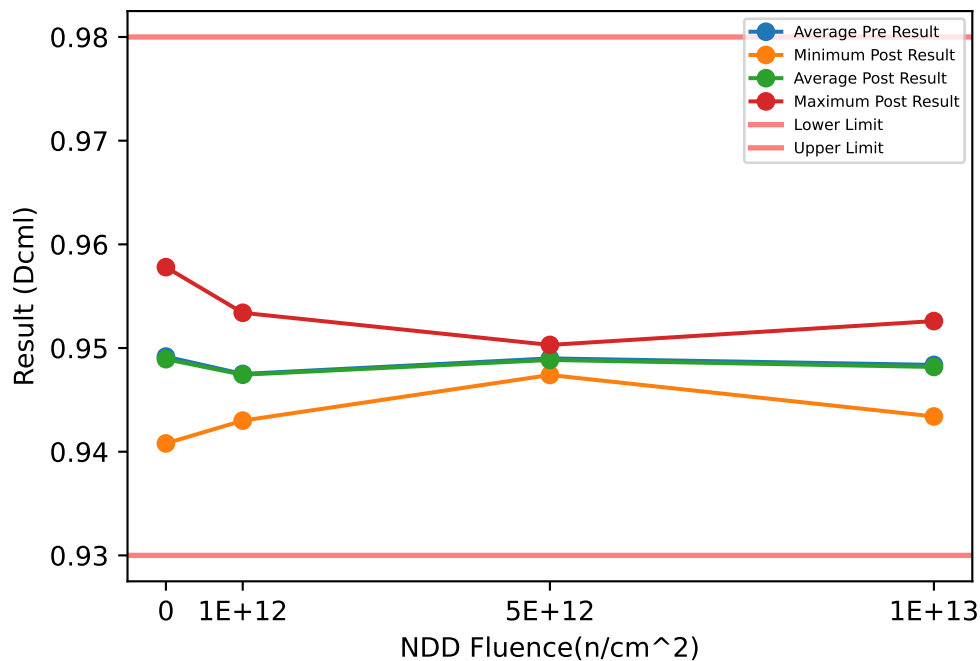


Test Statistics (V)

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	0.7167	0.75643	0.788	0.029767	0.7317	0.7436	0.7642	0.015077	-0.0238	-0.012825	0.015	0.018617
1e+12	0.7342	0.77265	0.8205	0.039646	0.7255	0.7314	0.7467	0.010216	-0.0738	-0.04125	-0.0075	0.031896
5e+12	0.7442	0.77265	0.7967	0.024558	0.733	0.7364	0.7392	0.0032701	-0.0575	-0.03625	-0.005	0.024875
1e+13	0.7355	0.76048	0.7867	0.020922	0.7317	0.73515	0.7367	0.0023685	-0.0512	-0.025325	-0.0038	0.01952

Device Test: 23.10 THRESHOLD|RISE/PWRGD/5///4011/@VSENSE_VTH_RISING_GOOD

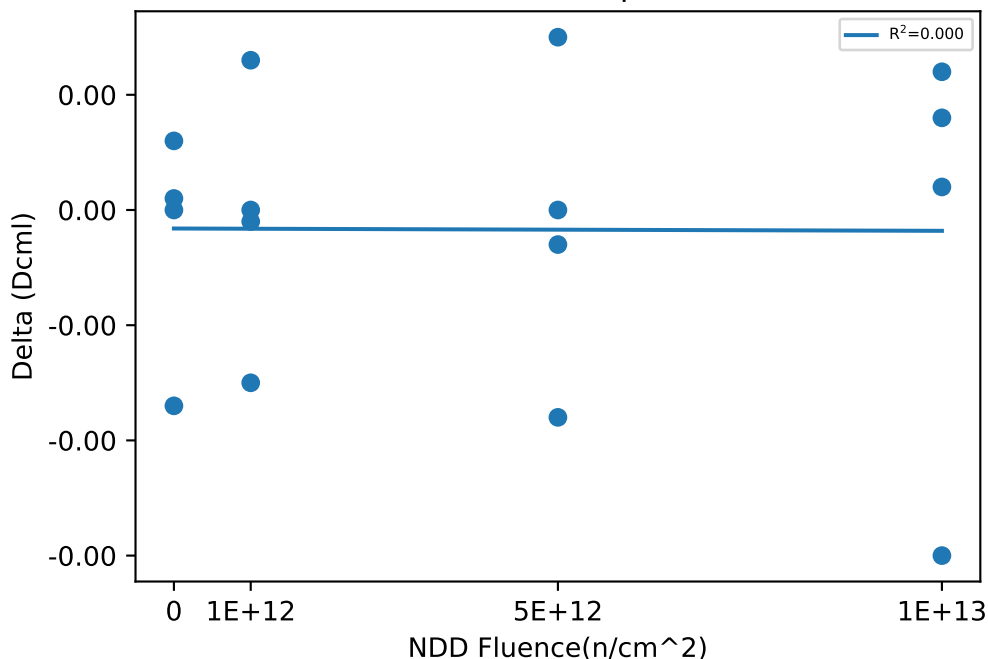
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.9459	0.9459	0
101	1e+12	NDD	0.9445	0.943	-0.0015
102	1e+12	NDD	0.9461	0.9474	0.0013
103	1e+12	NDD	0.9535	0.9534	-0.0001
104	5e+12	NDD	0.9493	0.9493	0
105	5e+12	NDD	0.9492	0.9474	-0.0018
106	5e+12	NDD	0.9487	0.9484	-0.0003
107	5e+12	NDD	0.9488	0.9503	0.0015
108	1e+13	NDD	0.9451	0.9459	0.0008
109	1e+13	NDD	0.9464	0.9434	-0.003
110	1e+13	NDD	0.9524	0.9526	0.0002
111	1e+13	NDD	0.9496	0.9508	0.0012
732	0	CORRELATION	0.9441	0.9441	0
742	0	CORRELATION	0.9425	0.9408	-0.0017
879	0	CORRELATION	0.9572	0.9578	0.0006
880	0	CORRELATION	0.9529	0.953	0.0001

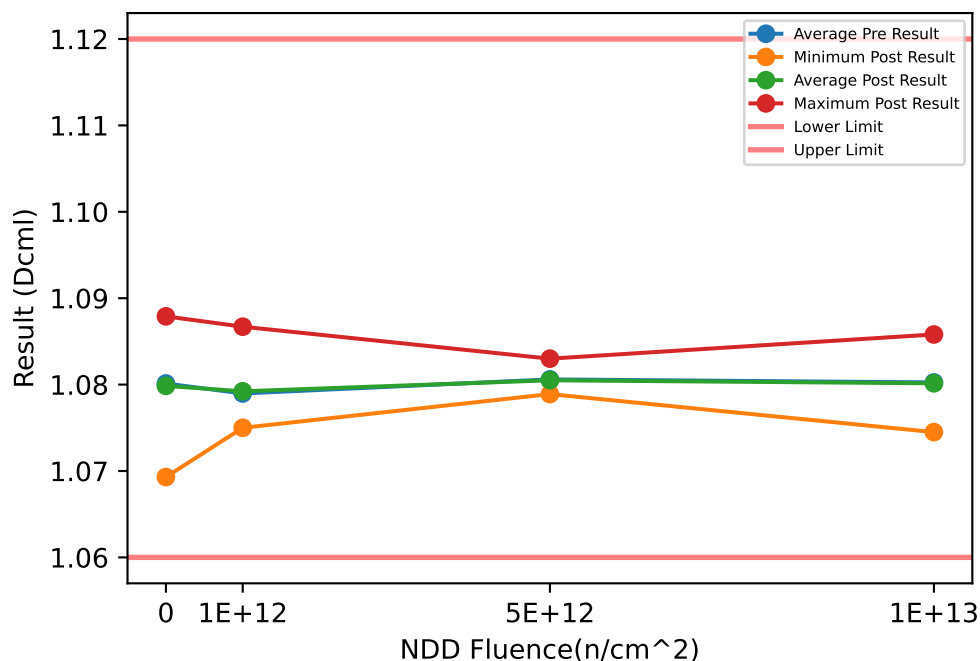
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9425	0.94917	0.9572	0.0070377	0.9408	0.94893	0.9578	0.0078458	-0.0017	-0.00025	0.0006	0.0010017
1e+12	0.9445	0.9475	0.9535	0.0040628	0.943	0.94742	0.9534	0.0043821	-0.0015	-7.5e-05	0.0013	0.0011442
5e+12	0.9487	0.949	0.9493	0.00029439	0.9474	0.94885	0.9503	0.0012396	-0.0018	-0.00015	0.0015	0.0013528
1e+13	0.9451	0.94837	0.9524	0.0032827	0.9434	0.94817	0.9526	0.0042602	-0.003	-0.0002	0.0012	0.0019114

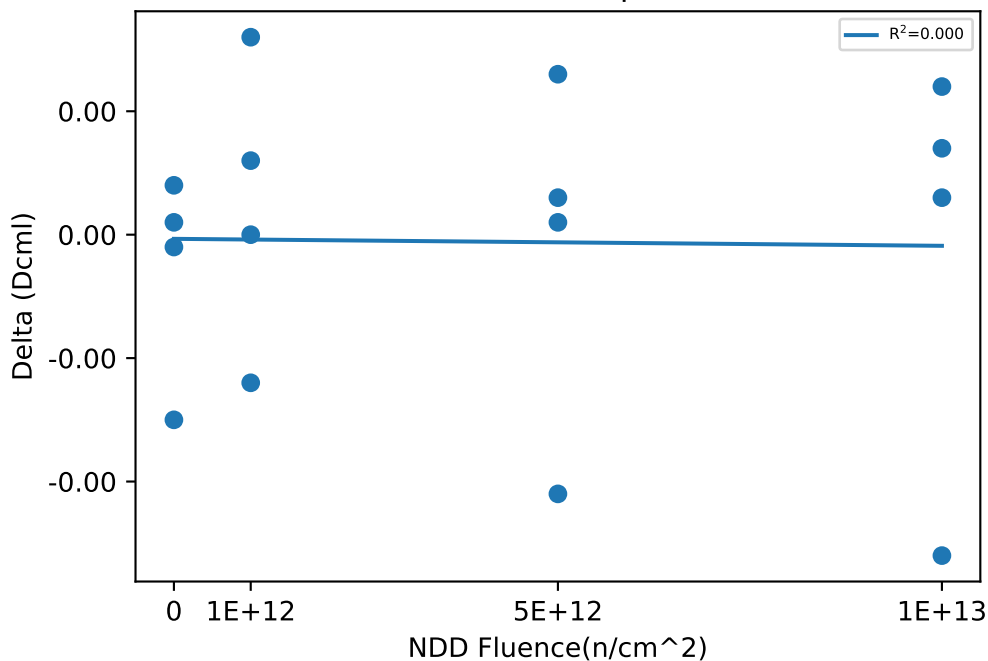
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.0755	1.0755	0
101	1e+12	NDD	1.0762	1.075	-0.0012
102	1e+12	NDD	1.0781	1.0797	0.0016
103	1e+12	NDD	1.0861	1.0867	0.0006
104	5e+12	NDD	1.0786	1.0789	0.0003
105	5e+12	NDD	1.0817	1.0796	-0.0021
106	5e+12	NDD	1.0829	1.083	0.0001
107	5e+12	NDD	1.0792	1.0805	0.0013
108	1e+13	NDD	1.0765	1.0768	0.0003
109	1e+13	NDD	1.0771	1.0745	-0.0026
110	1e+13	NDD	1.0828	1.0835	0.0007
111	1e+13	NDD	1.0846	1.0858	0.0012
732	0	CORRELATION	1.0762	1.0761	-0.0001
742	0	CORRELATION	1.0708	1.0693	-0.0015
879	0	CORRELATION	1.0875	1.0879	0.0004
880	0	CORRELATION	1.086	1.0861	0.0001

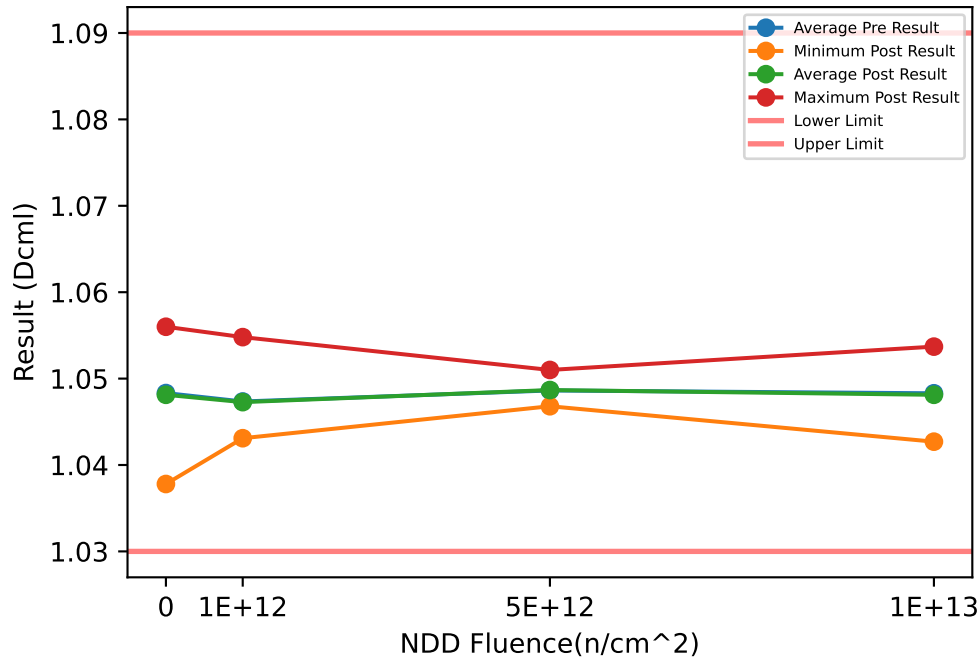
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0708	1.0801	1.0875	0.0079847	1.0693	1.0798	1.0879	0.0087413	-0.0015	-0.000275	0.0004	0.00084212
1e+12	1.0755	1.079	1.0861	0.0048754	1.075	1.0792	1.0867	0.0054107	-0.0012	0.00025	0.0016	0.0011705
5e+12	1.0786	1.0806	1.0829	0.002038	1.0789	1.0805	1.083	0.0017907	-0.0021	-0.0001	0.0013	0.0014329
1e+13	1.0765	1.0802	1.0846	0.0040583	1.0745	1.0801	1.0858	0.0053631	-0.0026	-0.0001	0.0012	0.0017068

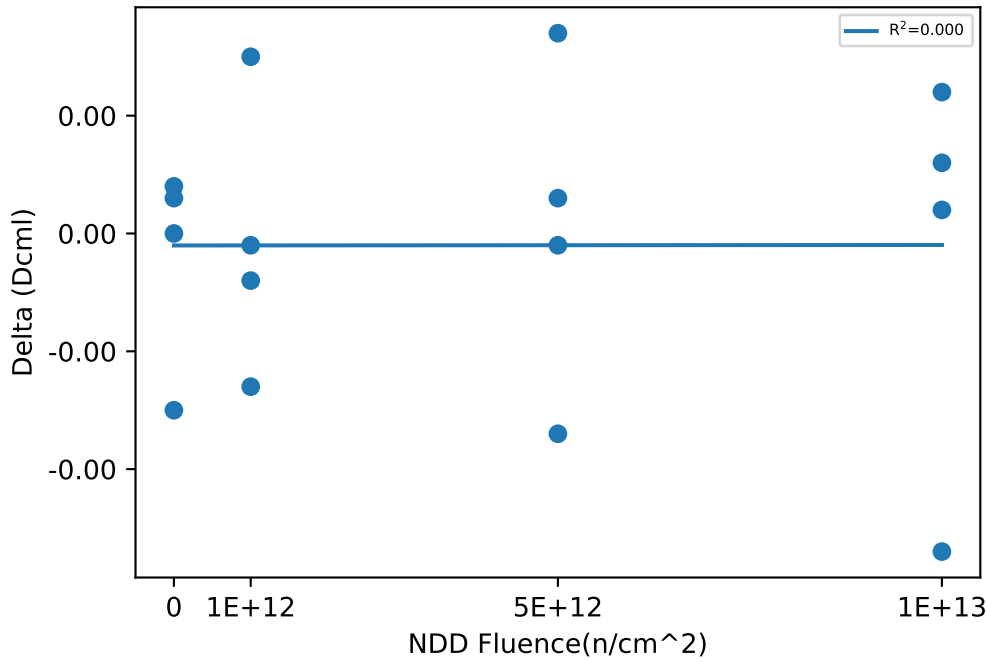
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.0438	1.0434	-0.0004
101	1e+12	NDD	1.0444	1.0431	-0.0013
102	1e+12	NDD	1.0463	1.0478	0.0015
103	1e+12	NDD	1.0549	1.0548	-0.0001
104	5e+12	NDD	1.0469	1.0468	-0.0001
105	5e+12	NDD	1.0496	1.0479	-0.0017
106	5e+12	NDD	1.0507	1.051	0.0003
107	5e+12	NDD	1.0473	1.049	0.0017
108	1e+13	NDD	1.0444	1.045	0.0006
109	1e+13	NDD	1.0454	1.0427	-0.0027
110	1e+13	NDD	1.0509	1.0511	0.0002
111	1e+13	NDD	1.0525	1.0537	0.0012
732	0	CORRELATION	1.0445	1.0448	0.0003
742	0	CORRELATION	1.0393	1.0378	-0.0015
879	0	CORRELATION	1.0556	1.056	0.0004
880	0	CORRELATION	1.0539	1.0539	0

NDD vs Post - Pre Exposure Delta

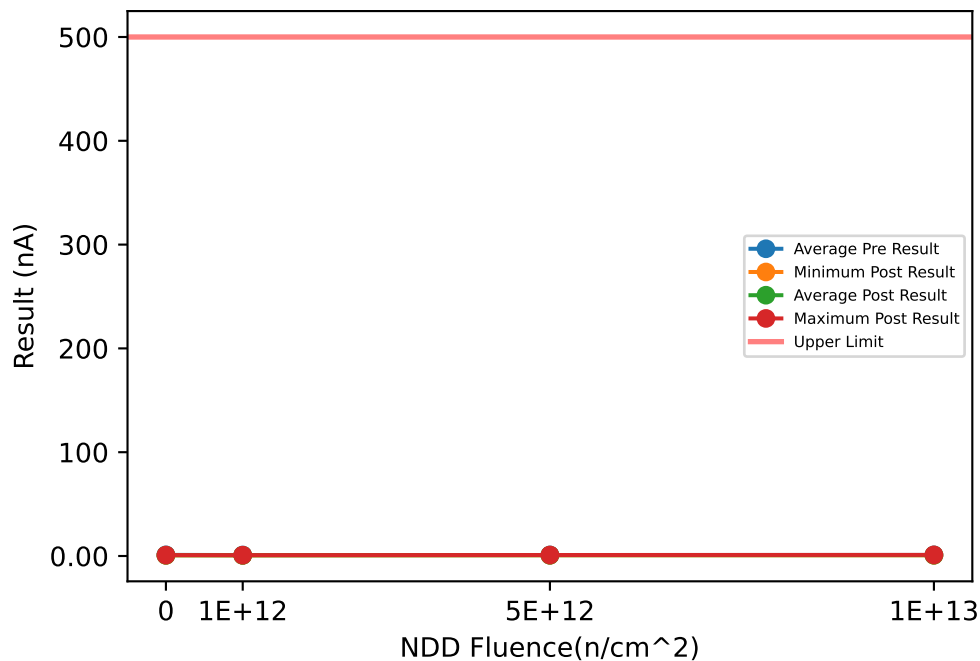


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0393	1.0483	1.0556	0.0077478	1.0378	1.0481	1.056	0.0084267	-0.0015	-0.0002	0.0004	0.00088318
1e+12	1.0438	1.0474	1.0549	0.0051449	1.0431	1.0473	1.0548	0.0054573	-0.0013	-7.5e-05	0.0015	0.0011673
5e+12	1.0469	1.0486	1.0507	0.0018246	1.0468	1.0487	1.051	0.0017914	-0.0017	5e-05	0.0017	0.0013988
1e+13	1.0444	1.0483	1.0525	0.0040008	1.0427	1.0481	1.0537	0.0051357	-0.0027	-0.000175	0.0012	0.0017328

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

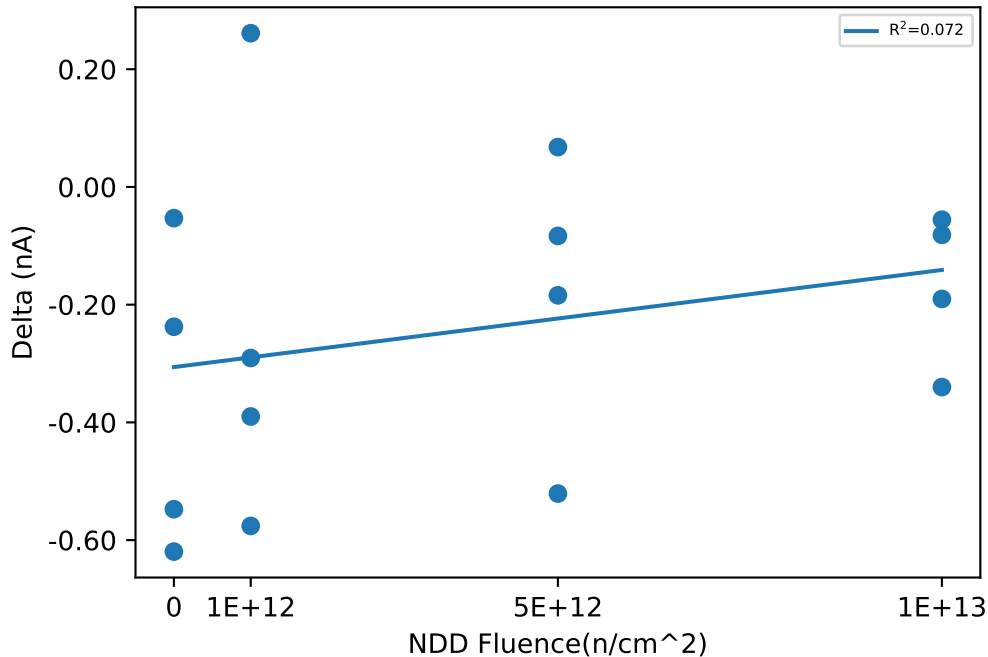
NDD vs Result Stats



Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.2838	0.7079	-0.5759
101	1e+12	NDD	1.003	0.613	-0.39
102	1e+12	NDD	0.5577	0.8189	0.2612
103	1e+12	NDD	0.8754	0.5848	-0.2906
104	5e+12	NDD	0.76	0.6768	-0.0832
105	5e+12	NDD	1.4805	0.9596	-0.5209
106	5e+12	NDD	0.9655	0.7814	-0.1841
107	5e+12	NDD	0.6357	0.7034	0.0677
108	1e+13	NDD	0.7137	0.6581	-0.0556
109	1e+13	NDD	0.8661	0.7847	-0.0814
110	1e+13	NDD	1.418	1.078	-0.34
111	1e+13	NDD	1.003	0.8127	-0.1903
732	0	CORRELATION	1.1745	0.627	-0.5475
742	0	CORRELATION	0.8973	0.6598	-0.2375
879	0	CORRELATION	0.9343	0.8813	-0.053
880	0	CORRELATION	1.3212	0.7017	-0.6195

NDD vs Post - Pre Exposure Delta

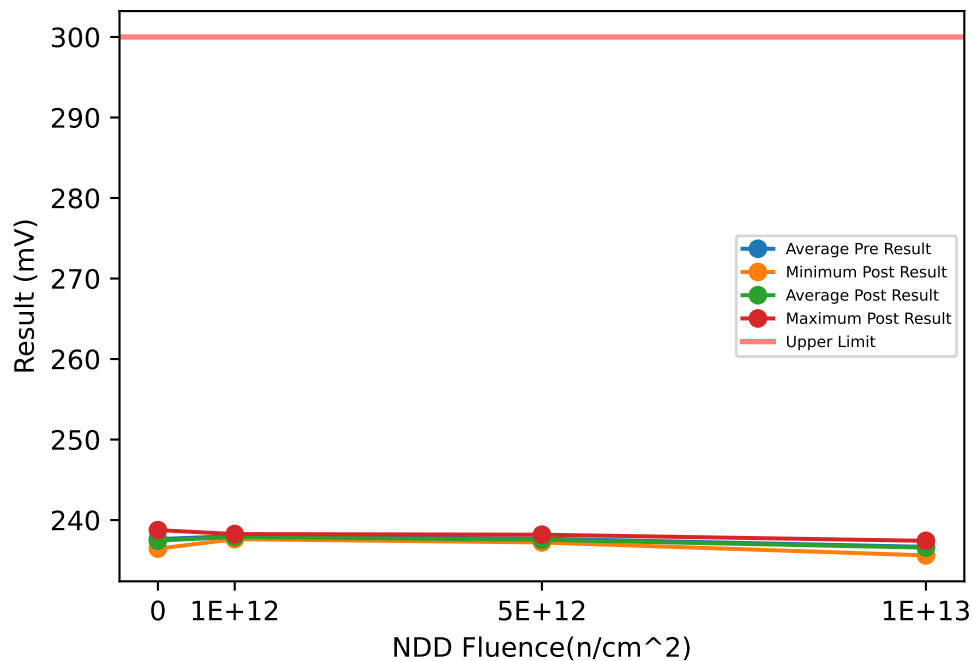


Test Statistics (nA)

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	0.8973	1.0818	1.3212	0.20141	0.627	0.71745	0.8813	0.11343	-0.6195	-0.36438	-0.053	0.26563
1e+12	0.5577	0.92997	1.2838	0.30116	0.5848	0.68115	0.8189	0.10586	-0.5759	-0.24882	0.2612	0.35999
5e+12	0.6357	0.96042	1.4805	0.37243	0.6768	0.7803	0.9596	0.12751	-0.5209	-0.18013	0.0677	0.24964
1e+13	0.7137	1.0002	1.418	0.30256	0.6581	0.83337	1.078	0.17641	-0.34	-0.16682	-0.0556	0.12937

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

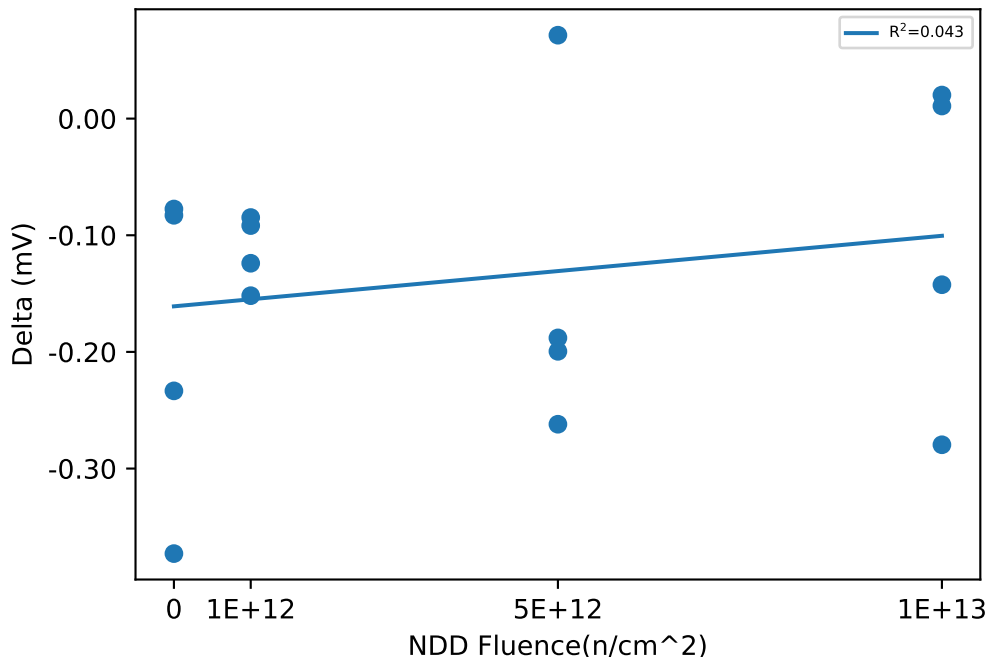
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	238.39	238.26	-0.124
101	1e+12	NDD	237.71	237.63	-0.0848
102	1e+12	NDD	237.76	237.67	-0.0917
103	1e+12	NDD	238.22	238.06	-0.1518
104	5e+12	NDD	237.58	237.39	-0.188
105	5e+12	NDD	237.48	237.22	-0.262
106	5e+12	NDD	238.38	238.18	-0.1995
107	5e+12	NDD	237.32	237.39	0.0715
108	1e+13	NDD	237.4	237.42	0.0202
109	1e+13	NDD	235.89	235.61	-0.2796
110	1e+13	NDD	236.5	236.35	-0.1424
111	1e+13	NDD	236.9	236.91	0.0108
732	0	CORRELATION	238.29	238.06	-0.2334
742	0	CORRELATION	236.83	236.45	-0.3729
879	0	CORRELATION	238.83	238.75	-0.0829
880	0	CORRELATION	236.59	236.51	-0.0775

NDD vs Post - Pre Exposure Delta

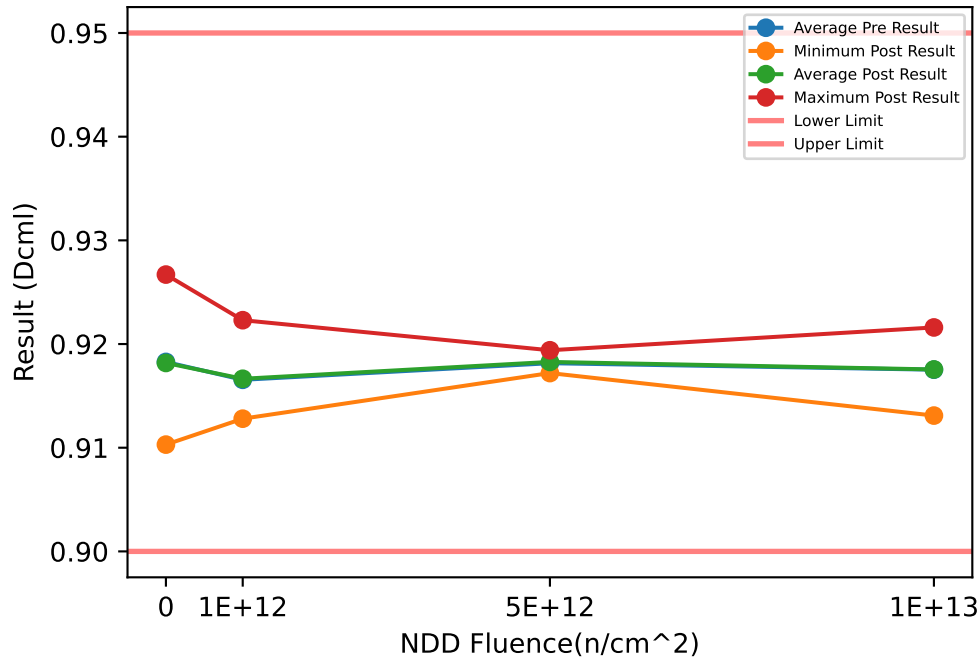


Test Statistics (mV)

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	236.59	237.64	238.83	1.0977	236.45	237.44	238.75	1.1452	-0.3729	-0.19168	-0.0775	0.14077
1e+12	237.71	238.02	238.39	0.33547	237.63	237.9	238.26	0.31015	-0.1518	-0.11308	-0.0848	0.030959
5e+12	237.32	237.69	238.38	0.47281	237.22	237.55	238.18	0.43192	-0.262	-0.1445	0.0715	0.14763
1e+13	235.89	236.67	237.4	0.6381	235.61	236.57	237.42	0.7752	-0.2796	-0.09775	0.0202	0.14231

Device Test: 23.16 THRESHOLD|FALL/PWRGD/12///4011/@VSENSE_VTH_FALLING_FAULT

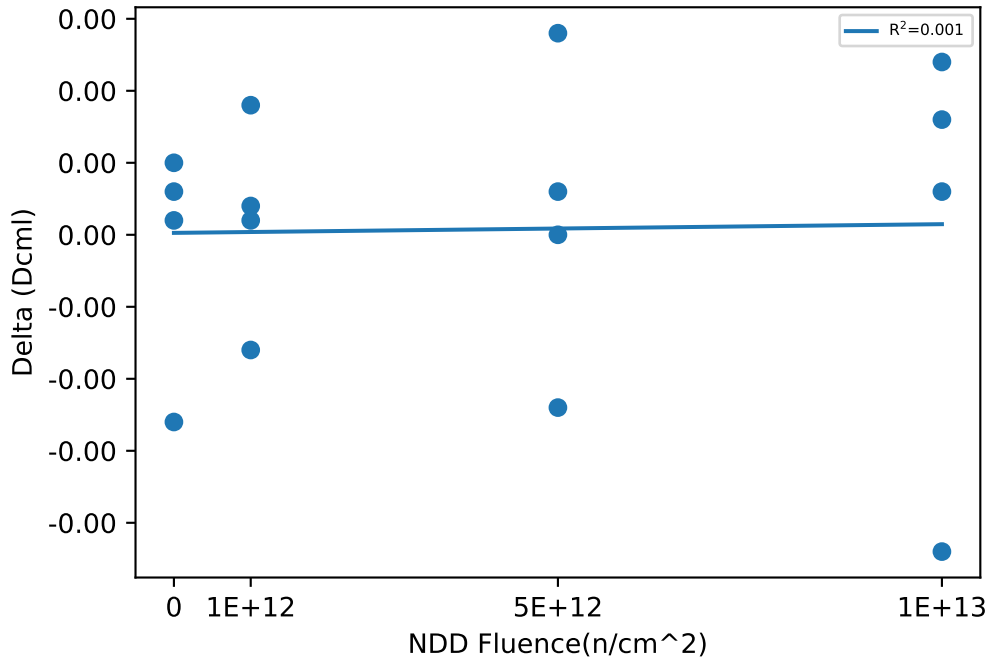
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.9149	0.9151	0.0002
101	1e+12	NDD	0.9136	0.9128	-0.0008
102	1e+12	NDD	0.9155	0.9164	0.0009
103	1e+12	NDD	0.9222	0.9223	0.0001
104	5e+12	NDD	0.9184	0.9187	0.0003
105	5e+12	NDD	0.9184	0.9172	-0.0012
106	5e+12	NDD	0.9178	0.9178	0
107	5e+12	NDD	0.918	0.9194	0.0014
108	1e+13	NDD	0.9145	0.9157	0.0012
109	1e+13	NDD	0.9153	0.9131	-0.0022
110	1e+13	NDD	0.9213	0.9216	0.0003
111	1e+13	NDD	0.919	0.9198	0.0008
732	0	CORRELATION	0.9134	0.9135	0.0001
742	0	CORRELATION	0.9116	0.9103	-0.0013
879	0	CORRELATION	0.9262	0.9267	0.0005
880	0	CORRELATION	0.9219	0.9222	0.0003

NDD vs Post - Pre Exposure Delta

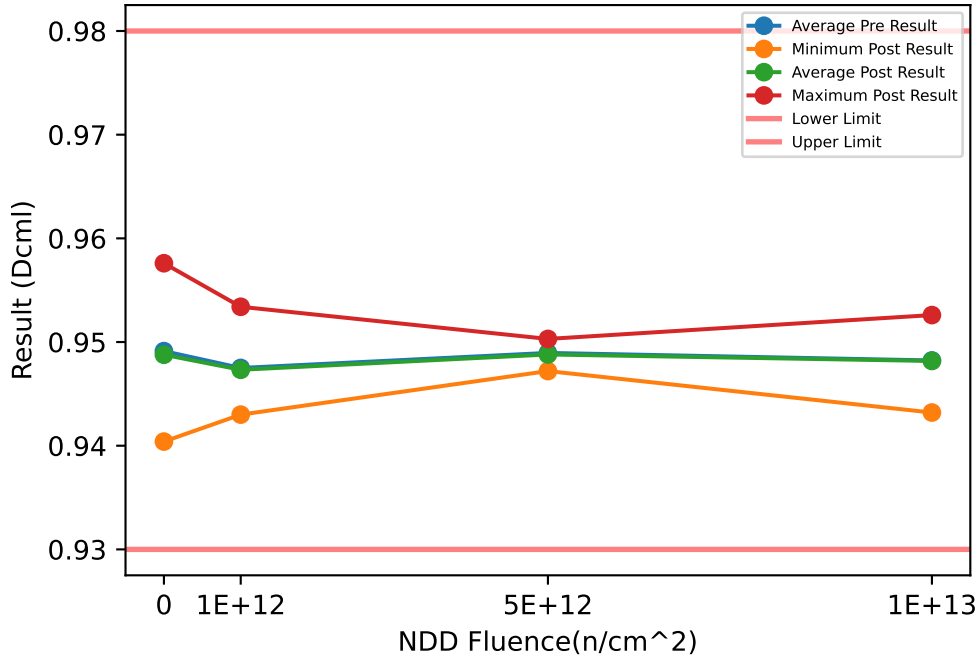


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9116	0.91827	0.9262	0.0069346	0.9103	0.91817	0.9267	0.0075883	-0.0013	-0.0001	0.0005	0.0008165
1e+12	0.9136	0.91655	0.9222	0.0038492	0.9128	0.91665	0.9223	0.0040501	-0.0008	0.0001	0.0009	0.00069761
5e+12	0.9178	0.91815	0.9184	0.0003	0.9172	0.91827	0.9194	0.00097082	-0.0012	0.000125	0.0014	0.0010689
1e+13	0.9145	0.91753	0.9213	0.00319	0.9131	0.91755	0.9216	0.0038596	-0.0022	2.5e-05	0.0012	0.0015283

Device Test: 23.17 THRESHOLD|RISE/PWRGD/12///4011/@VSENSE_VTH_RISING_GOOD

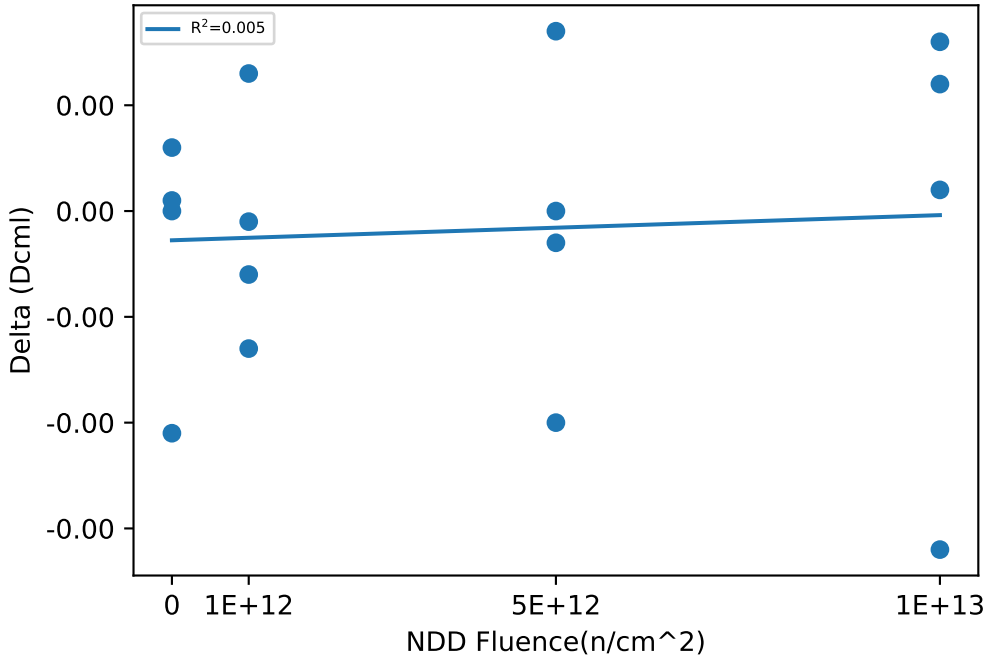
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.9461	0.9455	-0.0006
101	1e+12	NDD	0.9443	0.943	-0.0013
102	1e+12	NDD	0.9461	0.9474	0.0013
103	1e+12	NDD	0.9535	0.9534	-0.0001
104	5e+12	NDD	0.9493	0.9493	0
105	5e+12	NDD	0.9492	0.9472	-0.002
106	5e+12	NDD	0.9487	0.9484	-0.0003
107	5e+12	NDD	0.9486	0.9503	0.0017
108	1e+13	NDD	0.9445	0.9461	0.0016
109	1e+13	NDD	0.9464	0.9432	-0.0032
110	1e+13	NDD	0.9524	0.9526	0.0002
111	1e+13	NDD	0.9496	0.9508	0.0012
732	0	CORRELATION	0.9441	0.9441	0
742	0	CORRELATION	0.9425	0.9404	-0.0021
879	0	CORRELATION	0.957	0.9576	0.0006
880	0	CORRELATION	0.9529	0.953	0.0001

NDD vs Post - Pre Exposure Delta

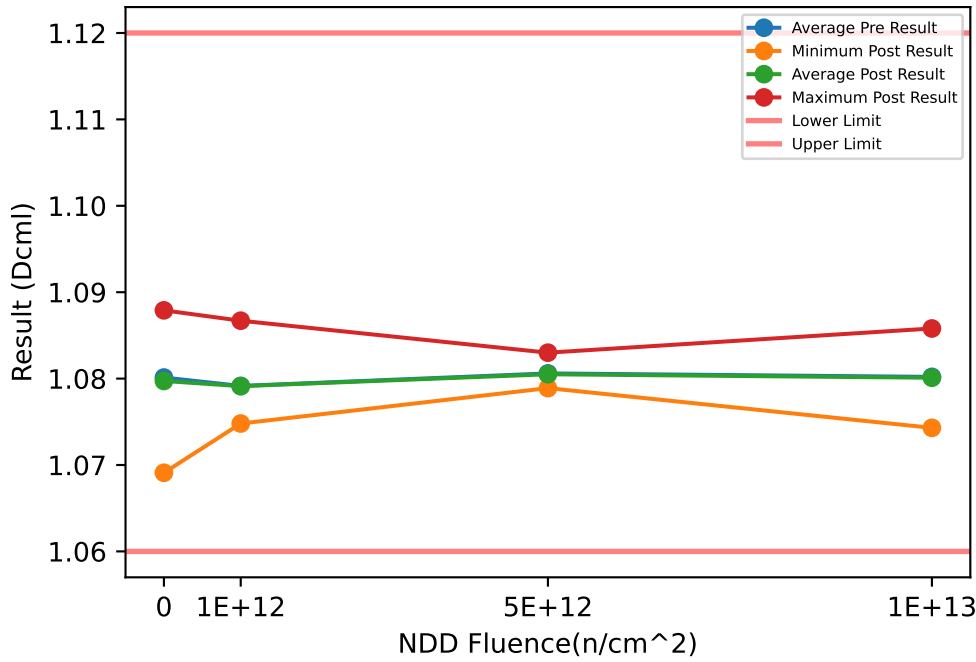


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9425	0.94912	0.957	0.006962	0.9404	0.94878	0.9576	0.0079105	-0.0021	-0.00035	0.0006	0.0011958
1e+12	0.9443	0.9475	0.9535	0.004089	0.943	0.94732	0.9534	0.0044327	-0.0013	-0.000175	0.0013	0.0010996
5e+12	0.9486	0.94895	0.9493	0.00035119	0.9472	0.9488	0.9503	0.0013191	-0.002	-0.00015	0.0017	0.0015155
1e+13	0.9445	0.94822	0.9524	0.0034894	0.9432	0.94817	0.9526	0.0043022	-0.0032	-5e-05	0.0016	0.002181

Device Test: 23.18 THRESHOLD|RISE/PWRGD/12///4011/@VSENSE_VTH_RISING_FAULT

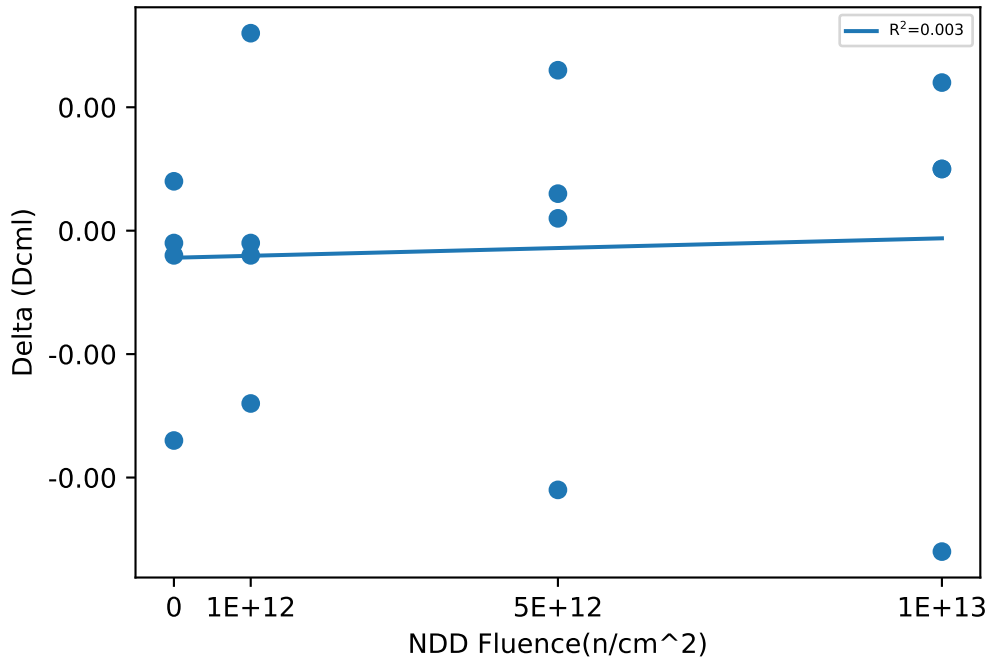
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.0755	1.0753	-0.0002
101	1e+12	NDD	1.0762	1.0748	-0.0014
102	1e+12	NDD	1.0781	1.0797	0.0016
103	1e+12	NDD	1.0868	1.0867	-0.0001
104	5e+12	NDD	1.0786	1.0789	0.0003
105	5e+12	NDD	1.0817	1.0796	-0.0021
106	5e+12	NDD	1.0829	1.083	0.0001
107	5e+12	NDD	1.0792	1.0805	0.0013
108	1e+13	NDD	1.0765	1.077	0.0005
109	1e+13	NDD	1.0769	1.0743	-0.0026
110	1e+13	NDD	1.0828	1.0833	0.0005
111	1e+13	NDD	1.0846	1.0858	0.0012
732	0	CORRELATION	1.0762	1.0761	-0.0001
742	0	CORRELATION	1.0708	1.0691	-0.0017
879	0	CORRELATION	1.0875	1.0879	0.0004
880	0	CORRELATION	1.086	1.0858	-0.0002

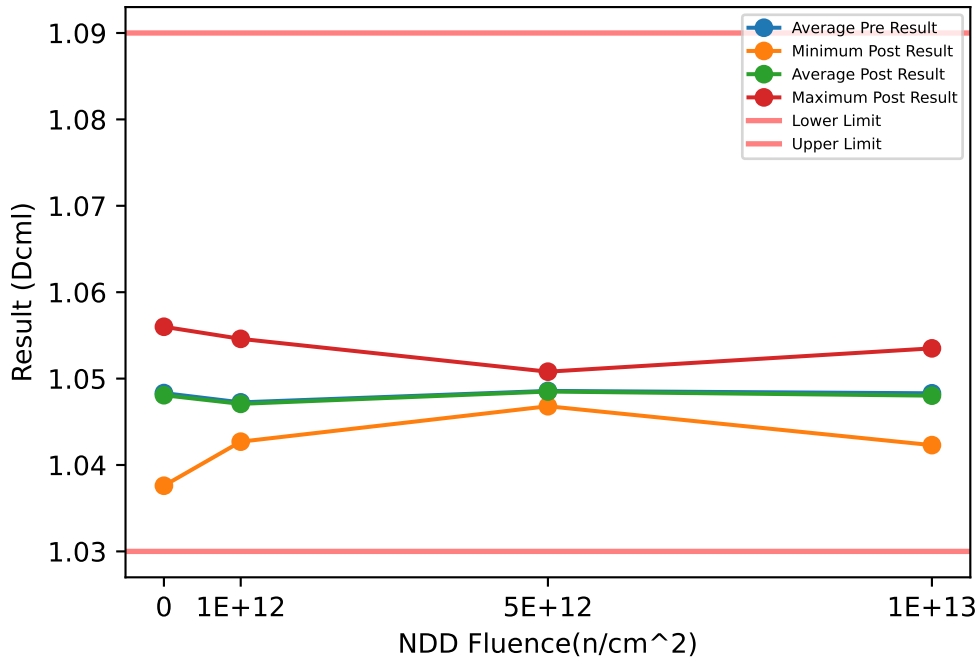
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0708	1.0801	1.0875	0.0079847	1.0691	1.0797	1.0879	0.0087515	-0.0017	-0.0004	0.0004	0.00090554
1e+12	1.0755	1.0792	1.0868	0.005217	1.0748	1.0791	1.0867	0.005509	-0.0014	-2.5e-05	0.0016	0.0012339
5e+12	1.0786	1.0806	1.0829	0.002038	1.0789	1.0805	1.083	0.0017907	-0.0021	-0.0001	0.0013	0.0014329
1e+13	1.0765	1.0802	1.0846	0.004111	1.0743	1.0801	1.0858	0.0053535	-0.0026	-0.0001	0.0012	0.001699

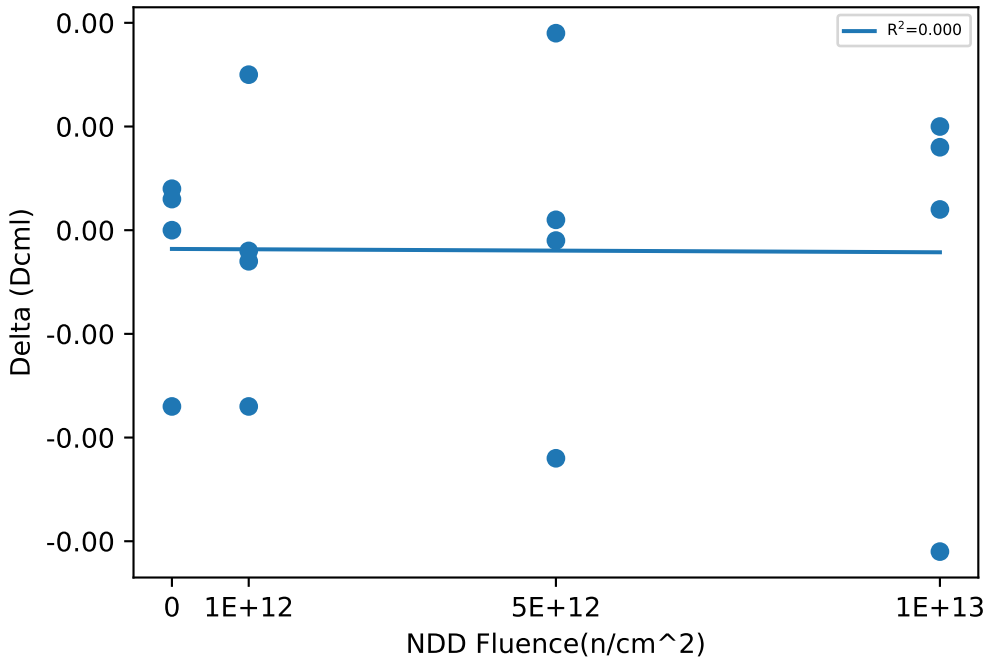
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.0436	1.0434	-0.0002
101	1e+12	NDD	1.0444	1.0427	-0.0017
102	1e+12	NDD	1.0461	1.0476	0.0015
103	1e+12	NDD	1.0549	1.0546	-0.0003
104	5e+12	NDD	1.0469	1.0468	-0.0001
105	5e+12	NDD	1.0496	1.0474	-0.0022
106	5e+12	NDD	1.0507	1.0508	0.0001
107	5e+12	NDD	1.0471	1.049	0.0019
108	1e+13	NDD	1.0444	1.0452	0.0008
109	1e+13	NDD	1.0454	1.0423	-0.0031
110	1e+13	NDD	1.0509	1.0511	0.0002
111	1e+13	NDD	1.0525	1.0535	0.001
732	0	CORRELATION	1.0445	1.0448	0.0003
742	0	CORRELATION	1.0393	1.0376	-0.0017
879	0	CORRELATION	1.0556	1.056	0.0004
880	0	CORRELATION	1.0539	1.0539	0

NDD vs Post - Pre Exposure Delta

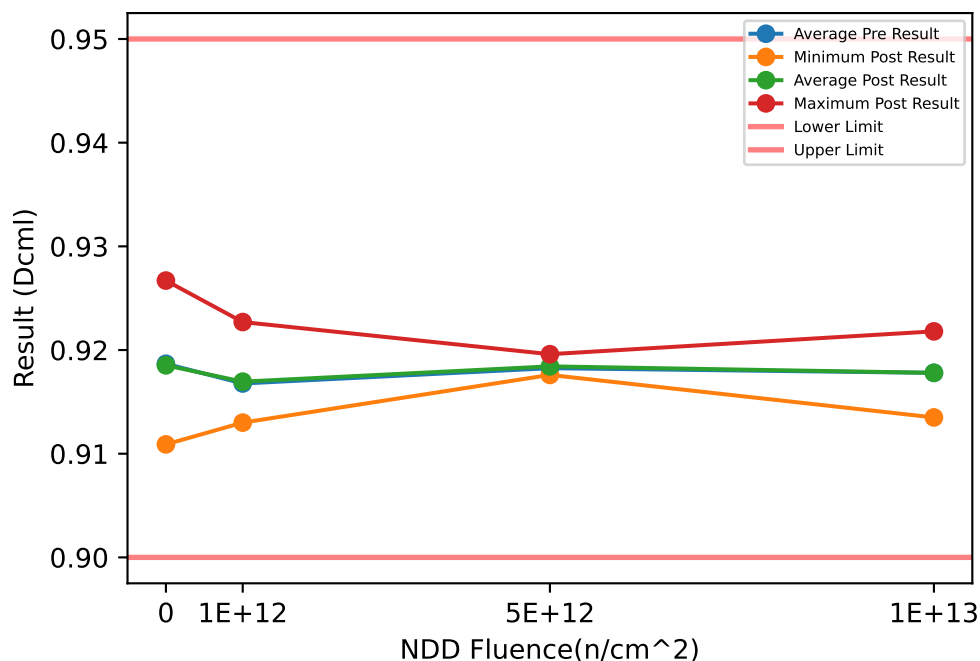


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0393	1.0483	1.0556	0.0077478	1.0376	1.0481	1.056	0.0085086	-0.0017	-0.00025	0.0004	0.0009815
1e+12	1.0436	1.0473	1.0549	0.0052054	1.0427	1.0471	1.0546	0.0054634	-0.0017	-0.000175	0.0015	0.0013099
5e+12	1.0469	1.0486	1.0507	0.0018751	1.0468	1.0485	1.0508	0.0017926	-0.0022	-7.5e-05	0.0019	0.001678
1e+13	1.0444	1.0483	1.0525	0.0040008	1.0423	1.048	1.0535	0.00517	-0.0031	-0.000275	0.001	0.0019138

Device Test: 23.2 THRESHOLD|FALL/PWRGD/4.5///4011/@VSENSE_VTH_FALLING_FAULT

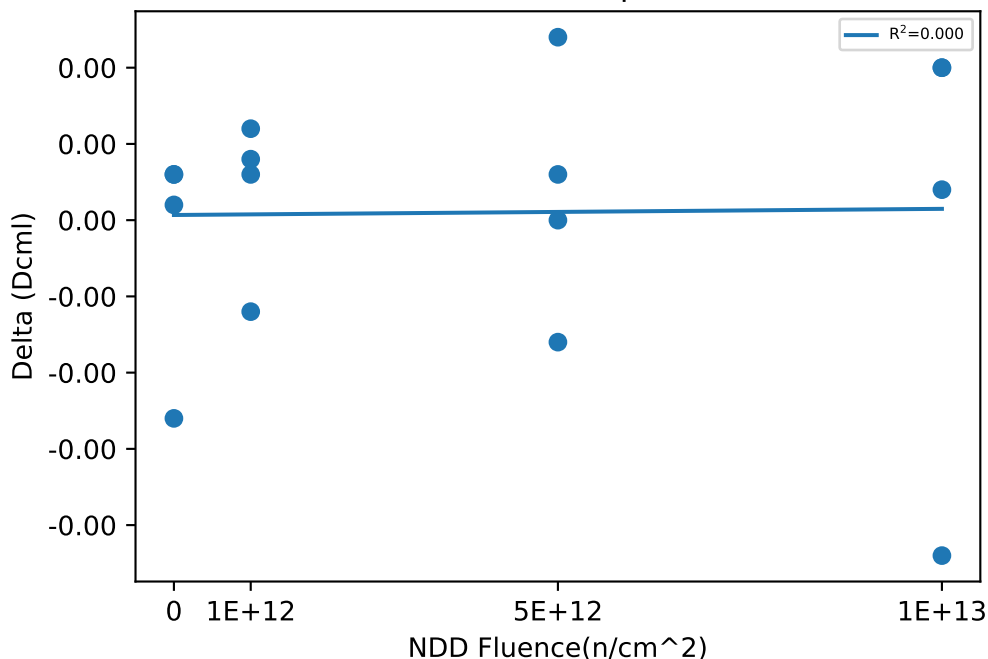
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.9151	0.9155	0.0004
101	1e+12	NDD	0.9136	0.913	-0.0006
102	1e+12	NDD	0.916	0.9166	0.0006
103	1e+12	NDD	0.9224	0.9227	0.0003
104	5e+12	NDD	0.9184	0.9187	0.0003
105	5e+12	NDD	0.9184	0.9176	-0.0008
106	5e+12	NDD	0.9178	0.9178	0
107	5e+12	NDD	0.9184	0.9196	0.0012
108	1e+13	NDD	0.9147	0.9157	0.001
109	1e+13	NDD	0.9157	0.9135	-0.0022
110	1e+13	NDD	0.9216	0.9218	0.0002
111	1e+13	NDD	0.9192	0.9202	0.001
732	0	CORRELATION	0.9136	0.9139	0.0003
742	0	CORRELATION	0.9122	0.9109	-0.0013
879	0	CORRELATION	0.9266	0.9267	0.0001
880	0	CORRELATION	0.9223	0.9226	0.0003

NDD vs Post - Pre Exposure Delta

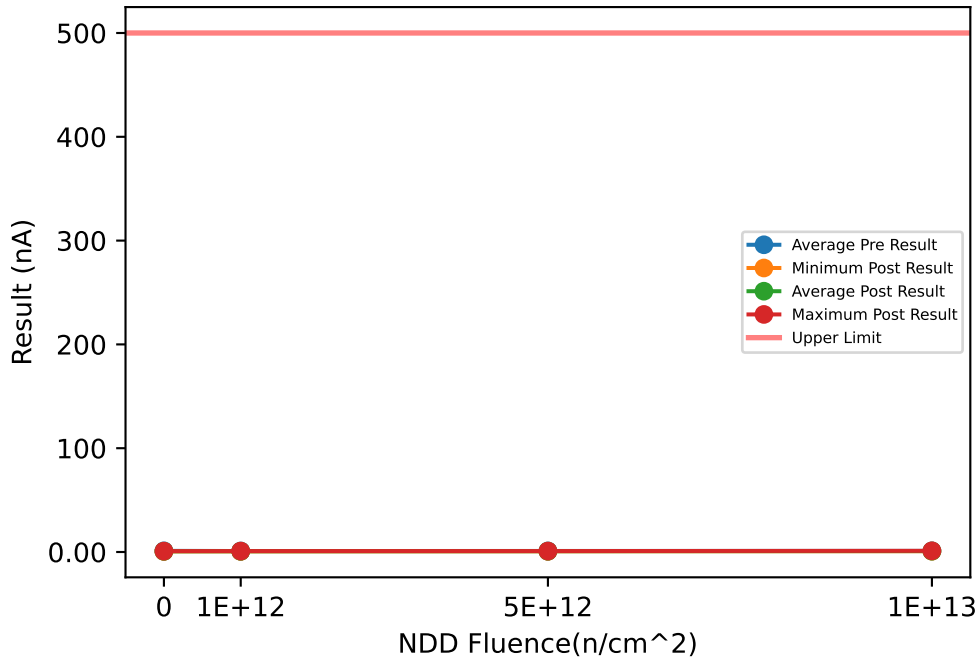


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9122	0.91868	0.9266	0.0069192	0.9109	0.91853	0.9267	0.0073704	-0.0013	-0.00015	0.0003	0.00077244
1e+12	0.9136	0.91678	0.9224	0.0038785	0.913	0.91695	0.9227	0.0041187	-0.0006	0.000175	0.0006	0.00053151
5e+12	0.9178	0.91825	0.9184	0.0003	0.9176	0.91842	0.9196	0.00091788	-0.0008	0.000175	0.0012	0.00082614
1e+13	0.9147	0.9178	0.9216	0.0031843	0.9135	0.9178	0.9218	0.0038583	-0.0022	0	0.001	0.0015144

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

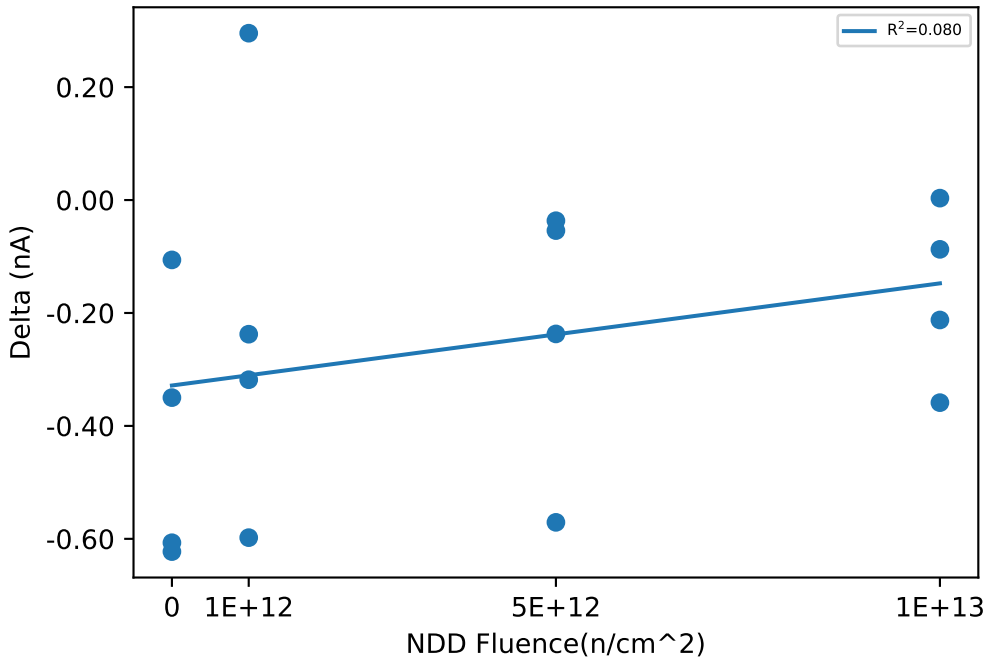
NDD vs Result Stats



Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.3369	0.739	-0.5979
101	1e+12	NDD	0.9874	0.6692	-0.3182
102	1e+12	NDD	0.5983	0.8938	0.2955
103	1e+12	NDD	0.8317	0.5941	-0.2376
104	5e+12	NDD	0.7787	0.7421	-0.0366
105	5e+12	NDD	1.4836	0.9128	-0.5708
106	5e+12	NDD	1.0154	0.7783	-0.2371
107	5e+12	NDD	0.72	0.6659	-0.0541
108	1e+13	NDD	0.7418	0.7452	0.0034
109	1e+13	NDD	0.9753	0.7629	-0.2124
110	1e+13	NDD	1.5086	1.1498	-0.3588
111	1e+13	NDD	0.9624	0.8751	-0.0873
732	0	CORRELATION	1.237	0.6301	-0.6069
742	0	CORRELATION	0.9347	0.5848	-0.3499
879	0	CORRELATION	0.9561	0.8501	-0.106
880	0	CORRELATION	1.3056	0.683	-0.6226

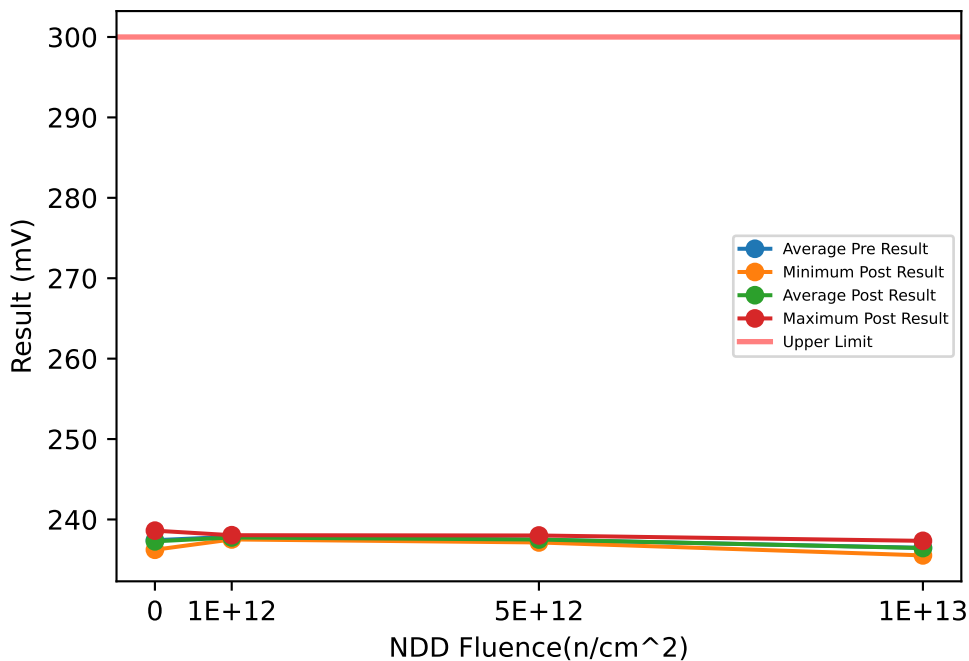
NDD vs Post - Pre Exposure Delta



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	0.9347	1.1084	1.3056	0.19043	0.5848	0.687	0.8501	0.1159	-0.6226	-0.42135	-0.106	0.2446
1e+12	0.5983	0.93858	1.3369	0.30998	0.5941	0.72403	0.8938	0.12772	-0.5979	-0.21455	0.2955	0.37344
5e+12	0.72	0.99943	1.4836	0.34712	0.6659	0.77477	0.9128	0.10325	-0.5708	-0.22465	-0.0366	0.24794
1e+13	0.7418	1.047	1.5086	0.32584	0.7452	0.88325	1.1498	0.18678	-0.3588	-0.16378	0.0034	0.15726

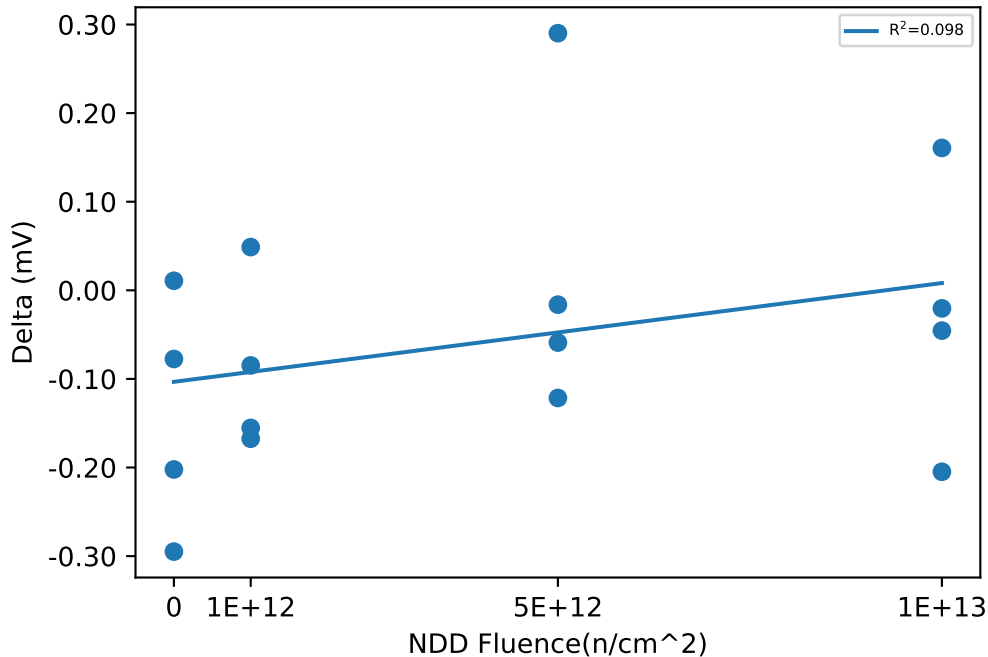
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	238.2	238.04	-0.1553
101	1e+12	NDD	237.6	237.52	-0.0848
102	1e+12	NDD	237.49	237.54	0.0488
103	1e+12	NDD	238.11	237.94	-0.1675
104	5e+12	NDD	237.37	237.36	-0.0162
105	5e+12	NDD	237.26	237.14	-0.1215
106	5e+12	NDD	238.07	238.01	-0.059
107	5e+12	NDD	237.23	237.52	0.2902
108	1e+13	NDD	237.18	237.34	0.1607
109	1e+13	NDD	235.58	235.53	-0.0455
110	1e+13	NDD	236.4	236.2	-0.2048
111	1e+13	NDD	236.73	236.71	-0.0204
732	0	CORRELATION	238.15	237.95	-0.2022
742	0	CORRELATION	236.53	236.24	-0.2949
879	0	CORRELATION	238.6	238.61	0.0108
880	0	CORRELATION	236.4	236.33	-0.0775

NDD vs Post - Pre Exposure Delta

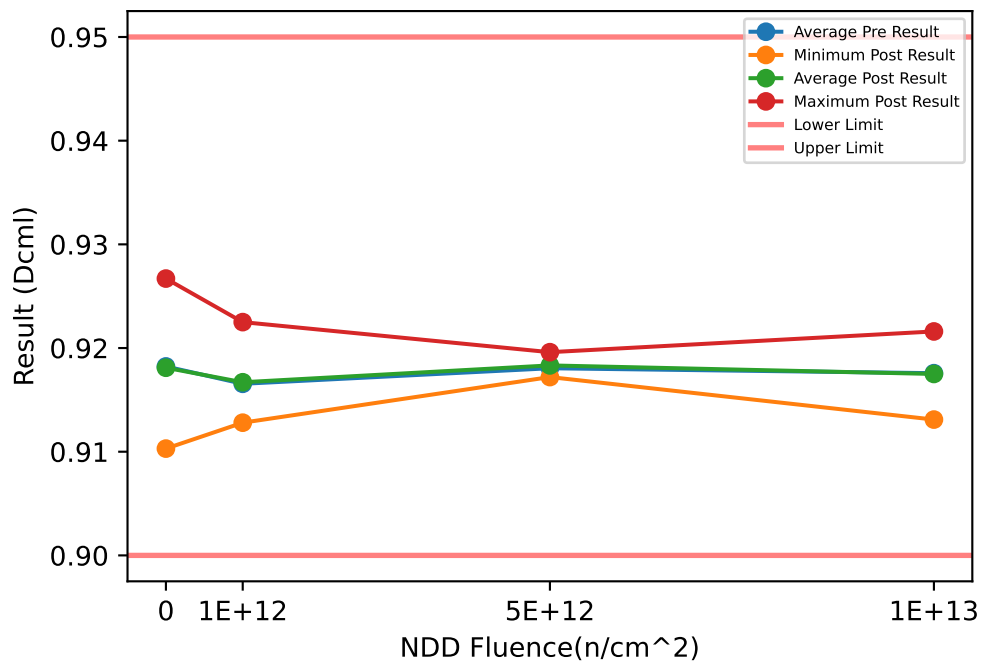


Test Statistics (mV)

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	236.4	237.42	238.6	1.1187	236.24	237.28	238.61	1.1863	-0.2949	-0.14095	0.0108	0.13479
1e+12	237.49	237.85	238.2	0.35485	237.52	237.76	238.04	0.27089	-0.1675	-0.0897	0.0488	0.099268
5e+12	237.23	237.48	238.07	0.3956	237.14	237.51	238.01	0.36955	-0.1215	0.023375	0.2902	0.18306
1e+13	235.58	236.47	237.18	0.67591	235.53	236.44	237.34	0.76693	-0.2048	-0.0275	0.1607	0.1497

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

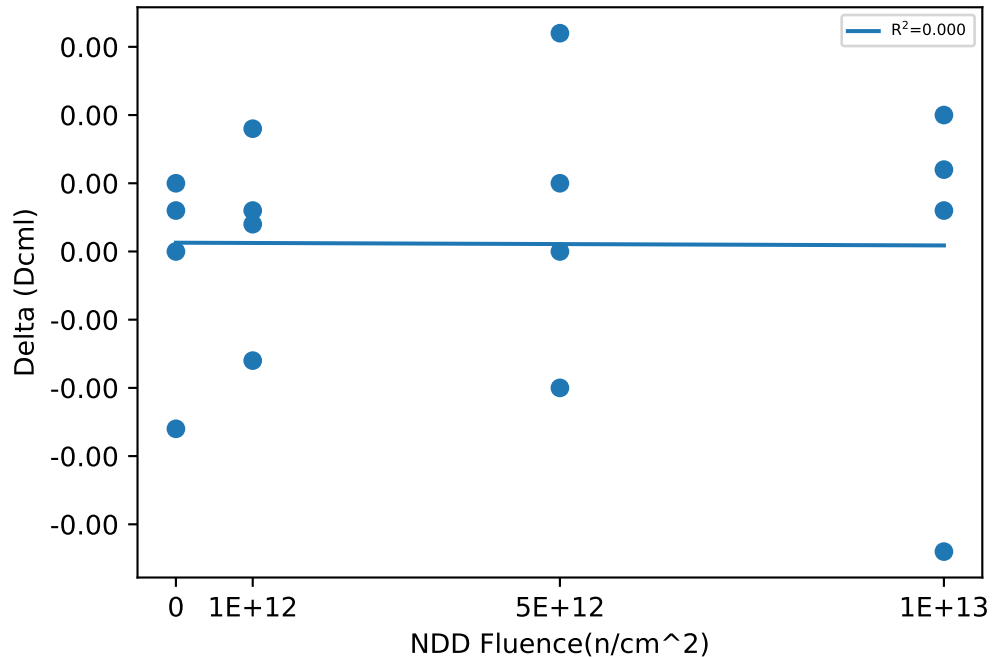
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.9149	0.9151	0.0002
101	1e+12	NDD	0.9136	0.9128	-0.0008
102	1e+12	NDD	0.9155	0.9164	0.0009
103	1e+12	NDD	0.9222	0.9225	0.0003
104	5e+12	NDD	0.9182	0.9187	0.0005
105	5e+12	NDD	0.9182	0.9172	-0.001
106	5e+12	NDD	0.9178	0.9178	0
107	5e+12	NDD	0.918	0.9196	0.0016
108	1e+13	NDD	0.9147	0.9157	0.001
109	1e+13	NDD	0.9153	0.9131	-0.0022
110	1e+13	NDD	0.9213	0.9216	0.0003
111	1e+13	NDD	0.919	0.9196	0.0006
732	0	CORRELATION	0.9132	0.9132	0
742	0	CORRELATION	0.9116	0.9103	-0.0013
879	0	CORRELATION	0.9262	0.9267	0.0005
880	0	CORRELATION	0.9219	0.9222	0.0003

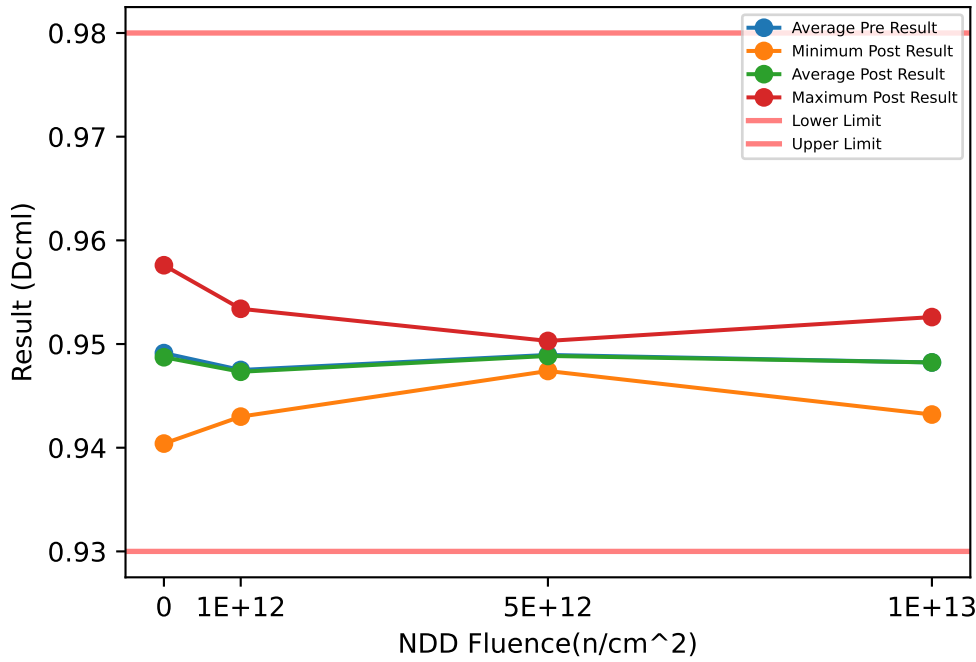
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9116	0.91823	0.9262	0.0069821	0.9103	0.9181	0.9267	0.0076511	-0.0013	-0.000125	0.0005	0.00080984
1e+12	0.9136	0.91655	0.9222	0.0038492	0.9128	0.9167	0.9225	0.0041433	-0.0008	0.00015	0.0009	0.00070475
5e+12	0.9178	0.91805	0.9182	0.00019149	0.9172	0.91832	0.9196	0.00105	-0.001	0.000275	0.0016	0.0010813
1e+13	0.9147	0.91758	0.9213	0.0031277	0.9131	0.9175	0.9216	0.0038219	-0.0022	-7.5e-05	0.001	0.0014454

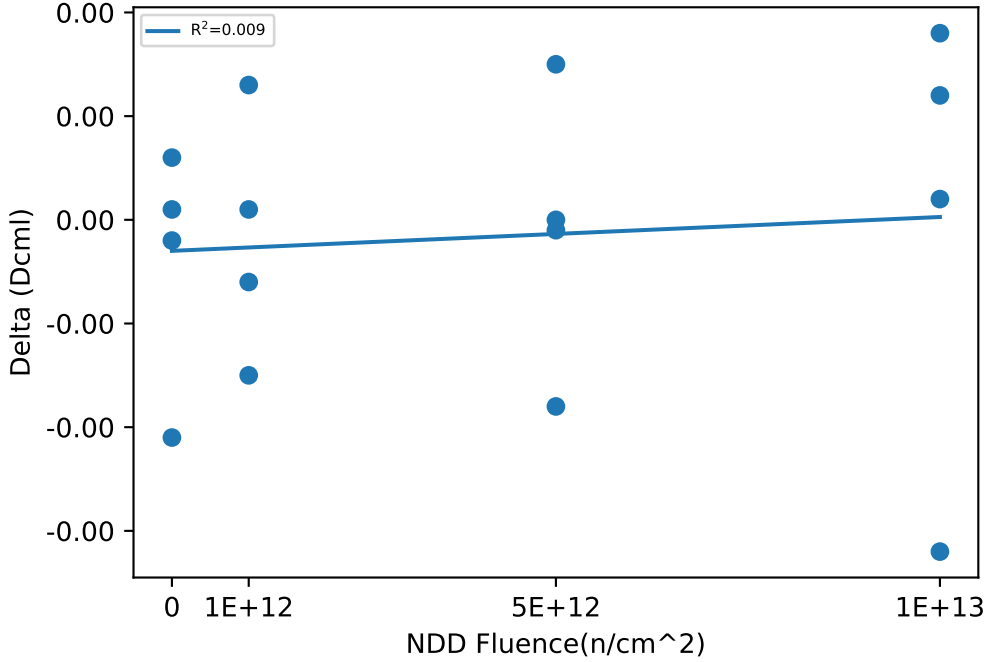
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.9461	0.9455	-0.0006
101	1e+12	NDD	0.9445	0.943	-0.0015
102	1e+12	NDD	0.9461	0.9474	0.0013
103	1e+12	NDD	0.9533	0.9534	0.0001
104	5e+12	NDD	0.9493	0.9493	0
105	5e+12	NDD	0.9492	0.9474	-0.0018
106	5e+12	NDD	0.9485	0.9484	-0.0001
107	5e+12	NDD	0.9488	0.9503	0.0015
108	1e+13	NDD	0.9445	0.9463	0.0018
109	1e+13	NDD	0.9464	0.9432	-0.0032
110	1e+13	NDD	0.9524	0.9526	0.0002
111	1e+13	NDD	0.9496	0.9508	0.0012
732	0	CORRELATION	0.9441	0.9439	-0.0002
742	0	CORRELATION	0.9425	0.9404	-0.0021
879	0	CORRELATION	0.957	0.9576	0.0006
880	0	CORRELATION	0.9529	0.953	0.0001

NDD vs Post - Pre Exposure Delta

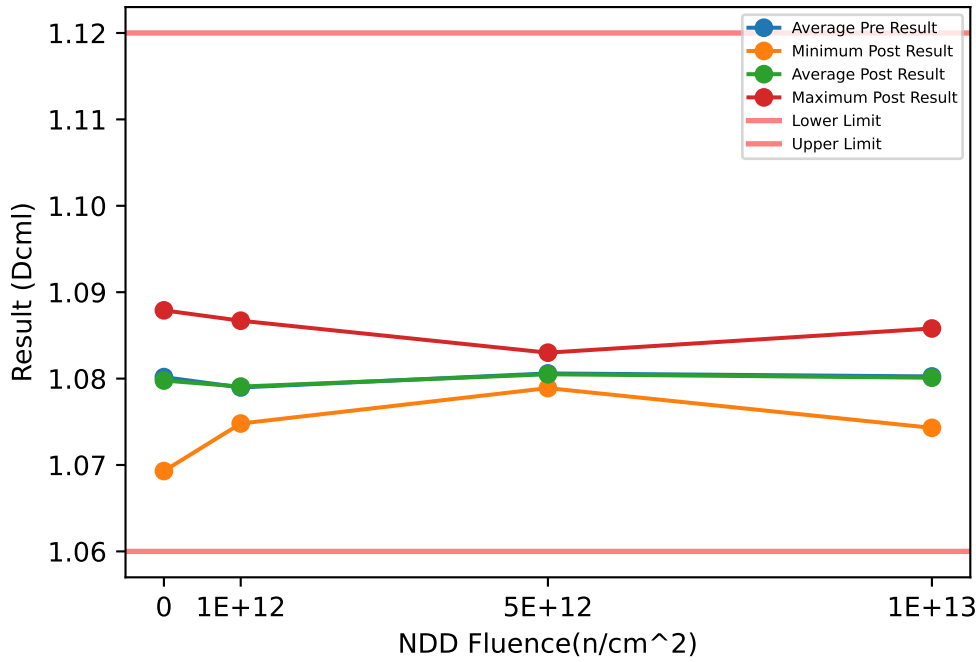


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9425	0.94912	0.957	0.006962	0.9404	0.94873	0.9576	0.0079504	-0.0021	-0.0004	0.0006	0.0011804
1e+12	0.9445	0.9475	0.9533	0.0039395	0.943	0.94732	0.9534	0.0044327	-0.0015	-0.000175	0.0013	0.0011815
5e+12	0.9485	0.94895	0.9493	0.00036968	0.9474	0.94885	0.9503	0.0012396	-0.0018	-0.0001	0.0015	0.0013491
1e+13	0.9445	0.94822	0.9524	0.0034894	0.9432	0.94822	0.9526	0.0042711	-0.0032	0	0.0018	0.0022331

Device Test: 23.25 THRESHOLD|RISE/PWRGD/14///4011/@VSENSE_VTH_RISING_FAULT

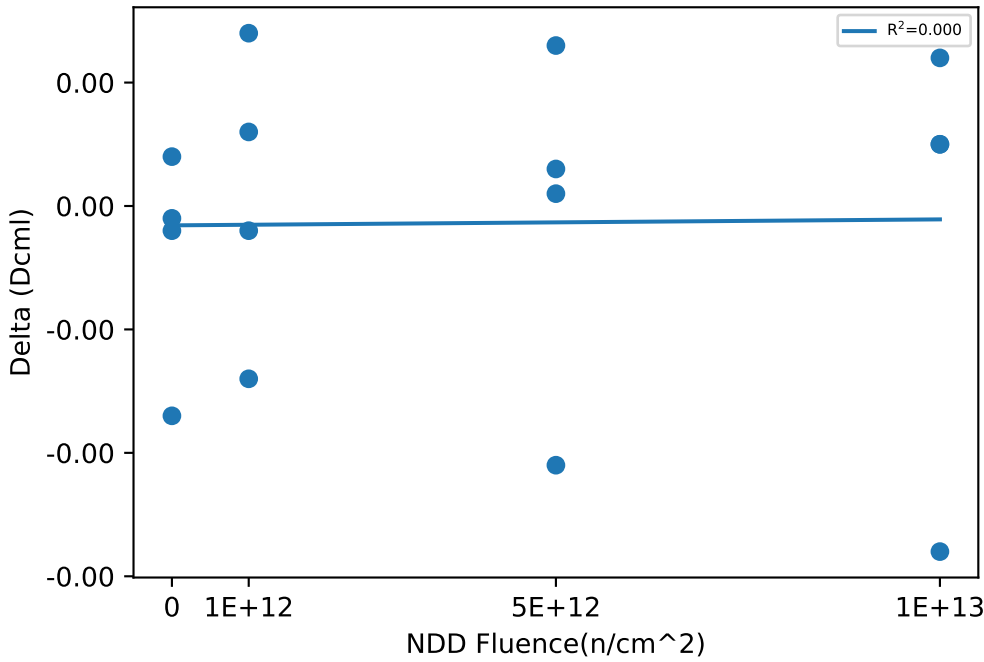
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.0755	1.0753	-0.0002
101	1e+12	NDD	1.0762	1.0748	-0.0014
102	1e+12	NDD	1.0781	1.0795	0.0014
103	1e+12	NDD	1.0861	1.0867	0.0006
104	5e+12	NDD	1.0786	1.0789	0.0003
105	5e+12	NDD	1.0817	1.0796	-0.0021
106	5e+12	NDD	1.0829	1.083	0.0001
107	5e+12	NDD	1.0792	1.0805	0.0013
108	1e+13	NDD	1.0765	1.077	0.0005
109	1e+13	NDD	1.0771	1.0743	-0.0028
110	1e+13	NDD	1.0828	1.0833	0.0005
111	1e+13	NDD	1.0846	1.0858	0.0012
732	0	CORRELATION	1.0762	1.0761	-0.0001
742	0	CORRELATION	1.071	1.0693	-0.0017
879	0	CORRELATION	1.0875	1.0879	0.0004
880	0	CORRELATION	1.086	1.0858	-0.0002

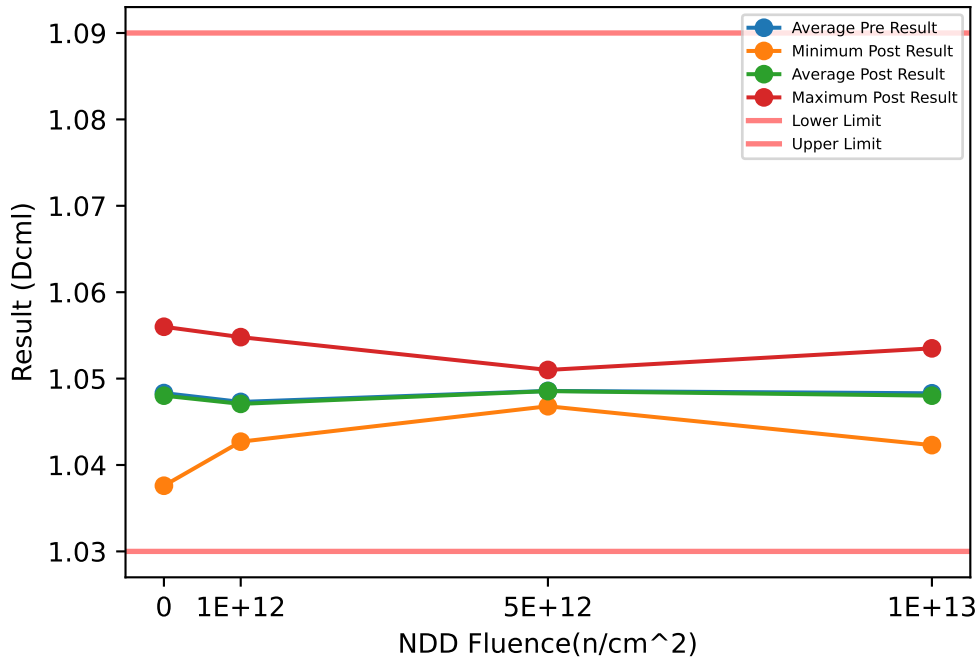
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.071	1.0802	1.0875	0.0079071	1.0693	1.0798	1.0879	0.0086708	-0.0017	-0.0004	0.0004	0.00090554
1e+12	1.0755	1.079	1.0861	0.0048754	1.0748	1.0791	1.0867	0.005503	-0.0014	0.0001	0.0014	0.0011944
5e+12	1.0786	1.0806	1.0829	0.002038	1.0789	1.0805	1.083	0.0017907	-0.0021	-0.0001	0.0013	0.0014329
1e+13	1.0765	1.0802	1.0846	0.0040583	1.0743	1.0801	1.0858	0.0053535	-0.0028	-0.00015	0.0012	0.0017972

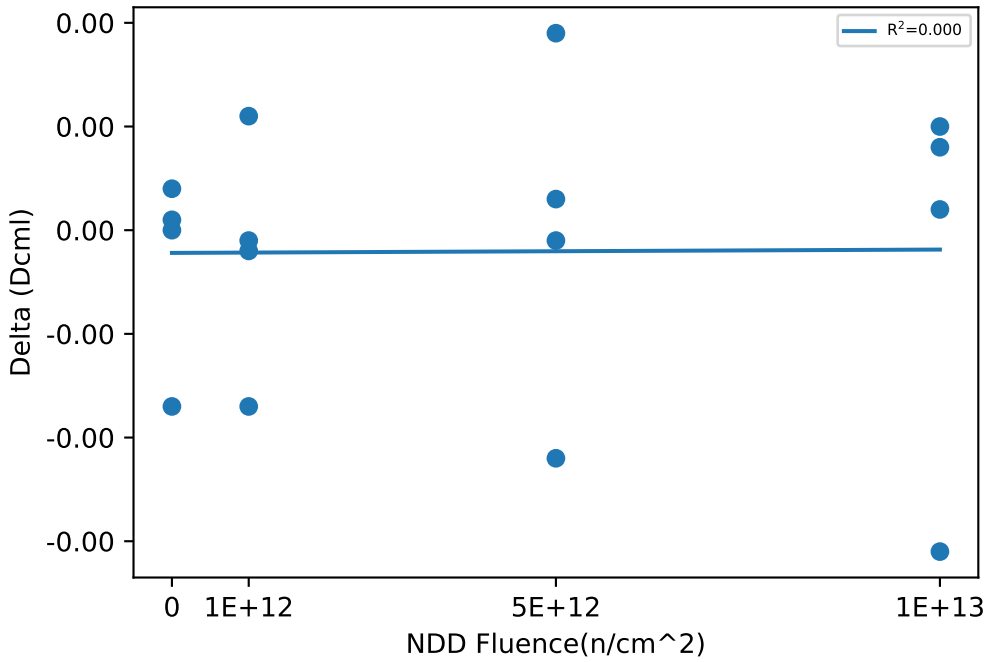
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.0436	1.0434	-0.0002
101	1e+12	NDD	1.0444	1.0427	-0.0017
102	1e+12	NDD	1.0463	1.0474	0.0011
103	1e+12	NDD	1.0549	1.0548	-0.0001
104	5e+12	NDD	1.0469	1.0468	-0.0001
105	5e+12	NDD	1.0496	1.0474	-0.0022
106	5e+12	NDD	1.0507	1.051	0.0003
107	5e+12	NDD	1.0471	1.049	0.0019
108	1e+13	NDD	1.0444	1.0452	0.0008
109	1e+13	NDD	1.0454	1.0423	-0.0031
110	1e+13	NDD	1.0509	1.0511	0.0002
111	1e+13	NDD	1.0525	1.0535	0.001
732	0	CORRELATION	1.0445	1.0446	0.0001
742	0	CORRELATION	1.0393	1.0376	-0.0017
879	0	CORRELATION	1.0556	1.056	0.0004
880	0	CORRELATION	1.0539	1.0539	0

NDD vs Post - Pre Exposure Delta

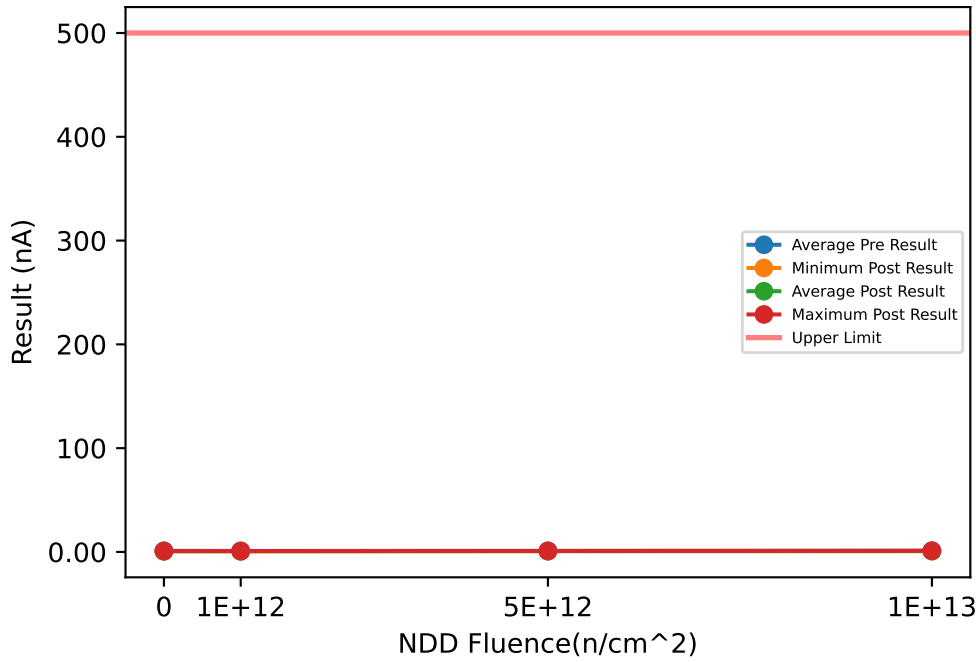


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0393	1.0483	1.0556	0.0077478	1.0376	1.048	1.056	0.0085348	-0.0017	-0.0003	0.0004	0.00094868
1e+12	1.0436	1.0473	1.0549	0.0051917	1.0427	1.0471	1.0548	0.0055506	-0.0017	-0.000225	0.0011	0.0011471
5e+12	1.0469	1.0486	1.0507	0.0018751	1.0468	1.0486	1.051	0.0018788	-0.0022	-2.5e-05	0.0019	0.0016879
1e+13	1.0444	1.0483	1.0525	0.0040008	1.0423	1.048	1.0535	0.00517	-0.0031	-0.000275	0.001	0.0019138

Device Test: 23.27 LEAK|MAX/PWRGD/14////@PWRGD_OUTPUT_HIGH_LEAK

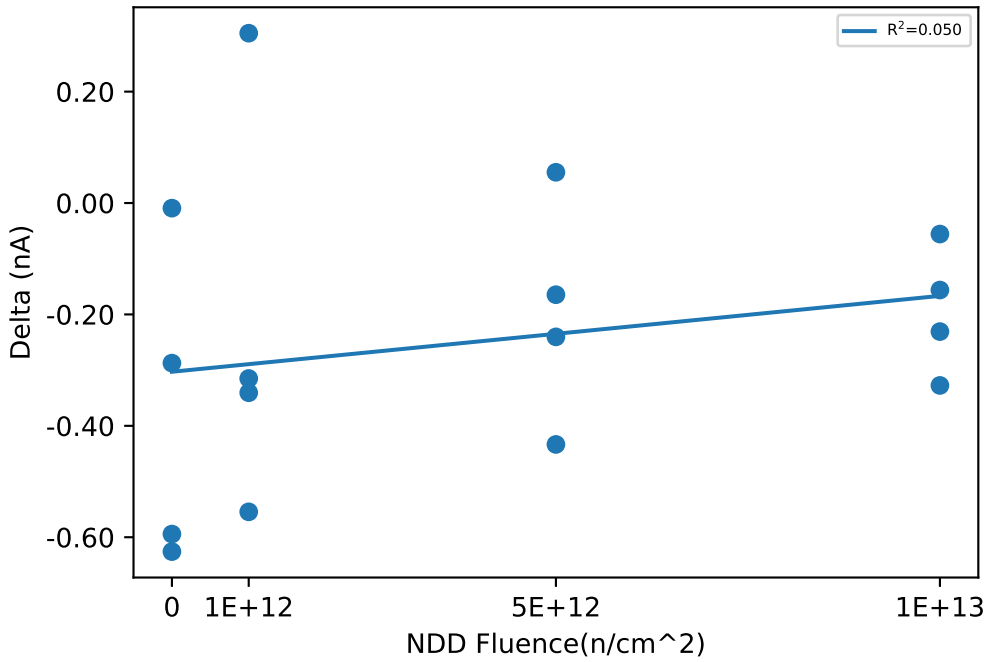
NDD vs Result Stats



Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.3369	0.7825	-0.5544
101	1e+12	NDD	1.0435	0.7285	-0.315
102	1e+12	NDD	0.6014	0.9063	0.3049
103	1e+12	NDD	0.8723	0.5317	-0.3406
104	5e+12	NDD	0.9129	0.7483	-0.1646
105	5e+12	NDD	1.4274	0.994	-0.4334
106	5e+12	NDD	1.0342	0.7939	-0.2403
107	5e+12	NDD	0.6607	0.7159	0.0552
108	1e+13	NDD	0.7325	0.6768	-0.0557
109	1e+13	NDD	0.9472	0.791	-0.1562
110	1e+13	NDD	1.5429	1.2154	-0.3275
111	1e+13	NDD	1.0872	0.8564	-0.2308
732	0	CORRELATION	1.2151	0.6208	-0.5943
742	0	CORRELATION	0.9316	0.6442	-0.2874
879	0	CORRELATION	0.9249	0.9157	-0.0092
880	0	CORRELATION	1.2963	0.6705	-0.6258

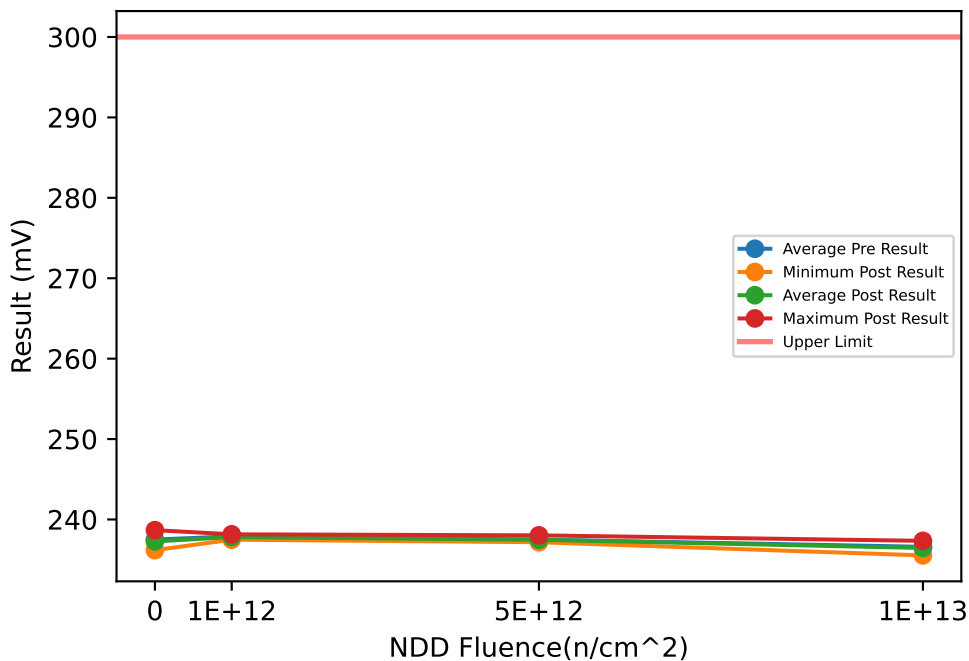
NDD vs Post - Pre Exposure Delta



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	0.9249	1.092	1.2963	0.19196	0.6208	0.7128	0.9157	0.13678	-0.6258	-0.37918	-0.0092	0.29006
1e+12	0.6014	0.96352	1.3369	0.30836	0.5317	0.73725	0.9063	0.15594	-0.5544	-0.22628	0.3049	0.37002
5e+12	0.6607	1.0088	1.4274	0.3195	0.7159	0.81302	0.994	0.12482	-0.4334	-0.19578	0.0552	0.202
1e+13	0.7325	1.0775	1.5429	0.34288	0.6768	0.8849	1.2154	0.2325	-0.3275	-0.19255	-0.0557	0.11507

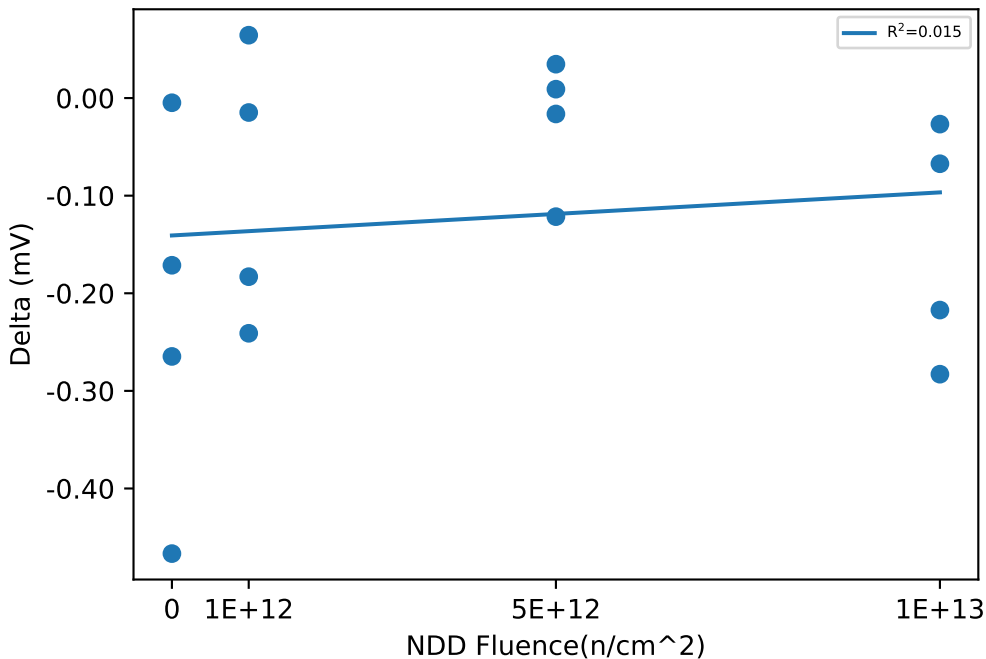
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	238.17	238.15	-0.0148
101	1e+12	NDD	237.73	237.48	-0.241
102	1e+12	NDD	237.49	237.56	0.0644
103	1e+12	NDD	238.23	238.05	-0.183
104	5e+12	NDD	237.28	237.26	-0.0163
105	5e+12	NDD	237.29	237.17	-0.1215
106	5e+12	NDD	237.99	238.03	0.0347
107	5e+12	NDD	237.45	237.46	0.0091
108	1e+13	NDD	237.37	237.34	-0.0267
109	1e+13	NDD	235.75	235.53	-0.2172
110	1e+13	NDD	236.51	236.23	-0.2829
111	1e+13	NDD	236.77	236.71	-0.0673
732	0	CORRELATION	238.17	237.9	-0.2647
742	0	CORRELATION	236.66	236.19	-0.4667
879	0	CORRELATION	238.68	238.67	-0.0048
880	0	CORRELATION	236.48	236.31	-0.1713

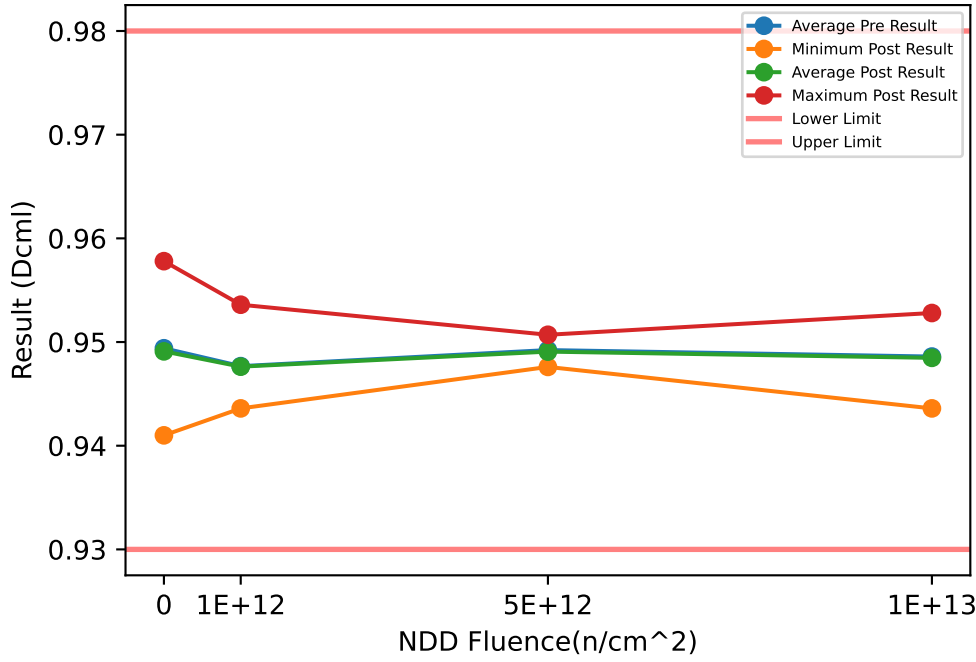
NDD vs Post - Pre Exposure Delta



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	236.48	237.5	238.68	1.0932	236.19	237.27	238.67	1.2195	-0.4667	-0.22688	-0.0048	0.19266
1e+12	237.49	237.9	238.23	0.35499	237.48	237.81	238.15	0.33897	-0.241	-0.0936	0.0644	0.14247
5e+12	237.28	237.5	237.99	0.33424	237.17	237.48	238.03	0.38303	-0.1215	-0.0235	0.0347	0.068571
1e+13	235.75	236.6	237.37	0.6709	235.53	236.45	237.34	0.76375	-0.2829	-0.14852	-0.0267	0.1214

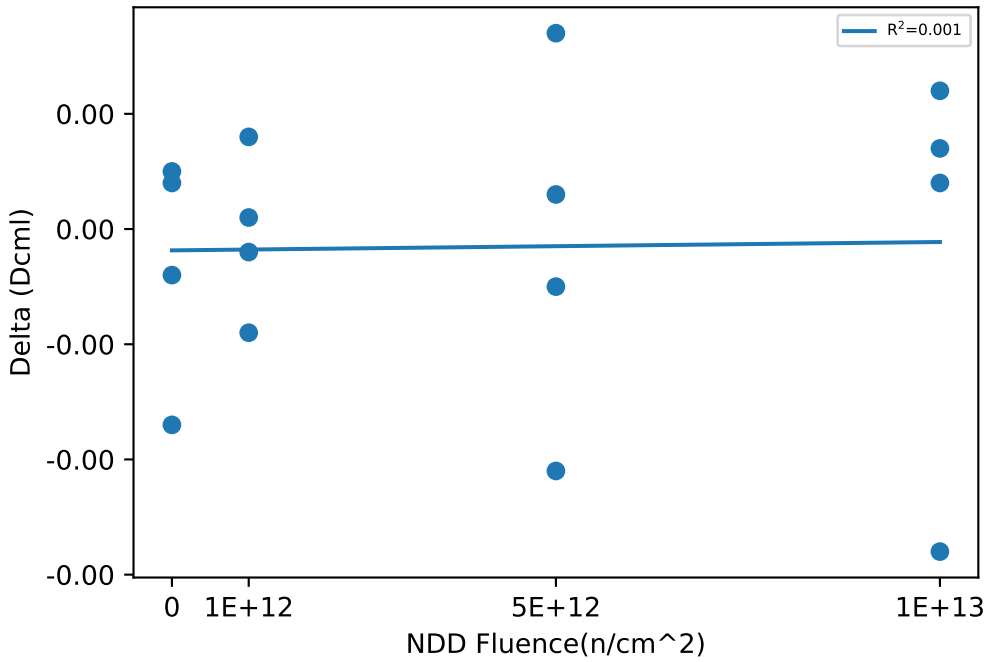
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.9461	0.9459	-0.0002
101	1e+12	NDD	0.9445	0.9436	-0.0009
102	1e+12	NDD	0.9466	0.9474	0.0008
103	1e+12	NDD	0.9535	0.9536	0.0001
104	5e+12	NDD	0.9493	0.9496	0.0003
105	5e+12	NDD	0.9497	0.9476	-0.0021
106	5e+12	NDD	0.9489	0.9484	-0.0005
107	5e+12	NDD	0.949	0.9507	0.0017
108	1e+13	NDD	0.9453	0.9465	0.0012
109	1e+13	NDD	0.9464	0.9436	-0.0028
110	1e+13	NDD	0.9524	0.9528	0.0004
111	1e+13	NDD	0.9503	0.951	0.0007
732	0	CORRELATION	0.9441	0.9446	0.0005
742	0	CORRELATION	0.9427	0.941	-0.0017
879	0	CORRELATION	0.9574	0.9578	0.0004
880	0	CORRELATION	0.9534	0.953	-0.0004

NDD vs Post - Pre Exposure Delta

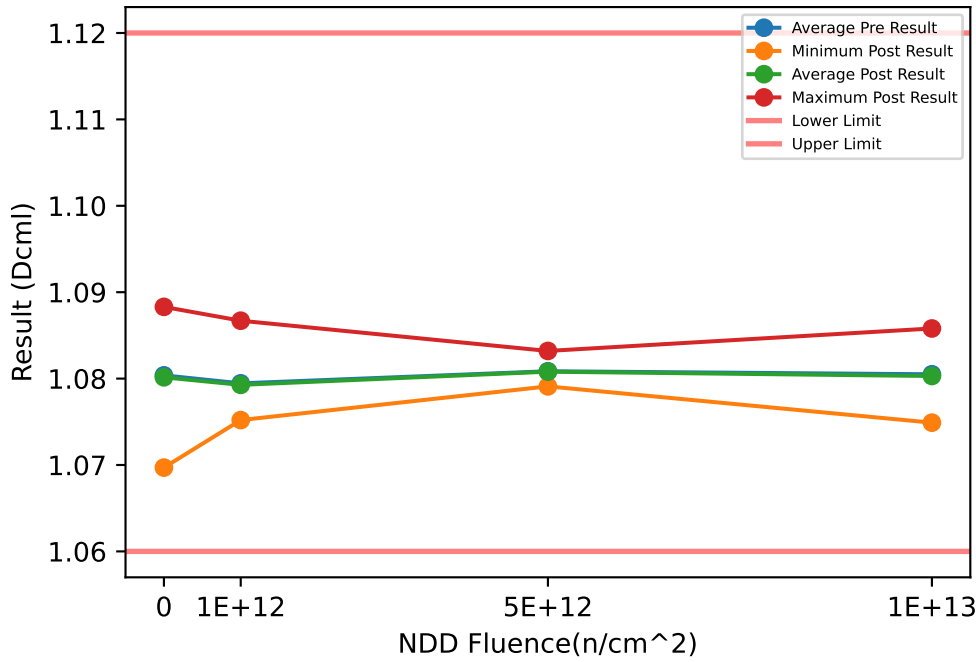


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9427	0.9494	0.9574	0.007141	0.941	0.9491	0.9578	0.0076759	-0.0017	-0.0003	0.0005	0.0010165
1e+12	0.9445	0.94768	0.9535	0.0039853	0.9436	0.94762	0.9536	0.0042789	-0.0009	-5e-05	0.0008	0.00070475
5e+12	0.9489	0.94922	0.9497	0.0003594	0.9476	0.94908	0.9507	0.0013598	-0.0021	-0.00015	0.0017	0.0015864
1e+13	0.9453	0.9486	0.9524	0.0033196	0.9436	0.94847	0.9528	0.0041931	-0.0028	-0.000125	0.0012	0.0018136

Device Test: 23.4 THRESHOLD|RISE/PWRGD/4.5///4011/@VSENSE_VTH_RISING_FAULT

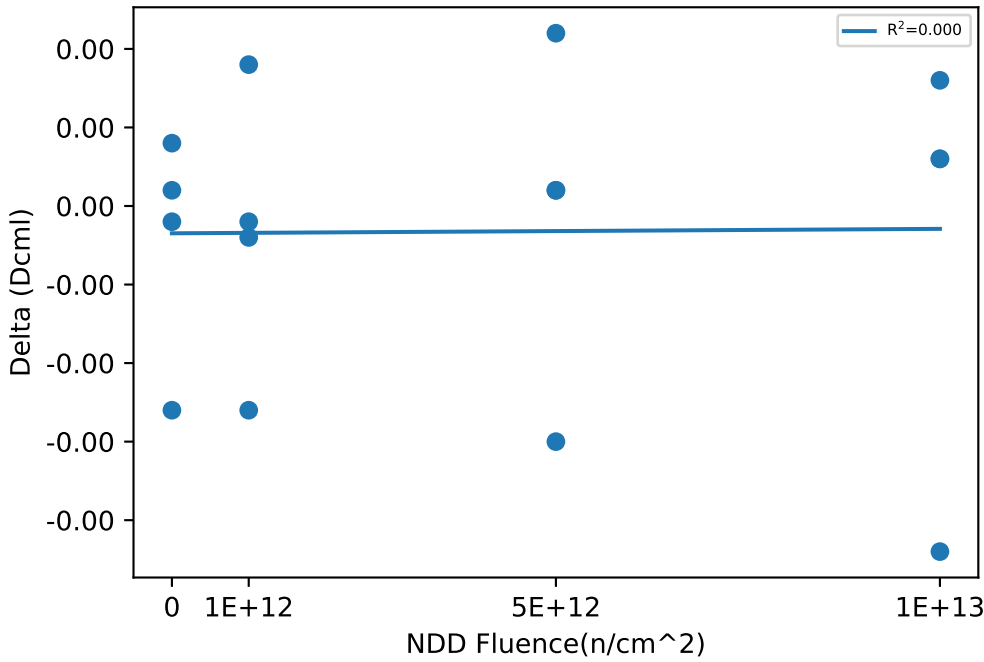
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.0757	1.0755	-0.0002
101	1e+12	NDD	1.0765	1.0752	-0.0013
102	1e+12	NDD	1.0788	1.0797	0.0009
103	1e+12	NDD	1.0868	1.0867	-0.0001
104	5e+12	NDD	1.079	1.0791	0.0001
105	5e+12	NDD	1.0817	1.0802	-0.0015
106	5e+12	NDD	1.0831	1.0832	0.0001
107	5e+12	NDD	1.0796	1.0807	0.0011
108	1e+13	NDD	1.0767	1.077	0.0003
109	1e+13	NDD	1.0771	1.0749	-0.0022
110	1e+13	NDD	1.0832	1.0835	0.0003
111	1e+13	NDD	1.085	1.0858	0.0008
732	0	CORRELATION	1.0764	1.0763	-0.0001
742	0	CORRELATION	1.071	1.0697	-0.0013
879	0	CORRELATION	1.0879	1.0883	0.0004
880	0	CORRELATION	1.0862	1.0863	0.0001

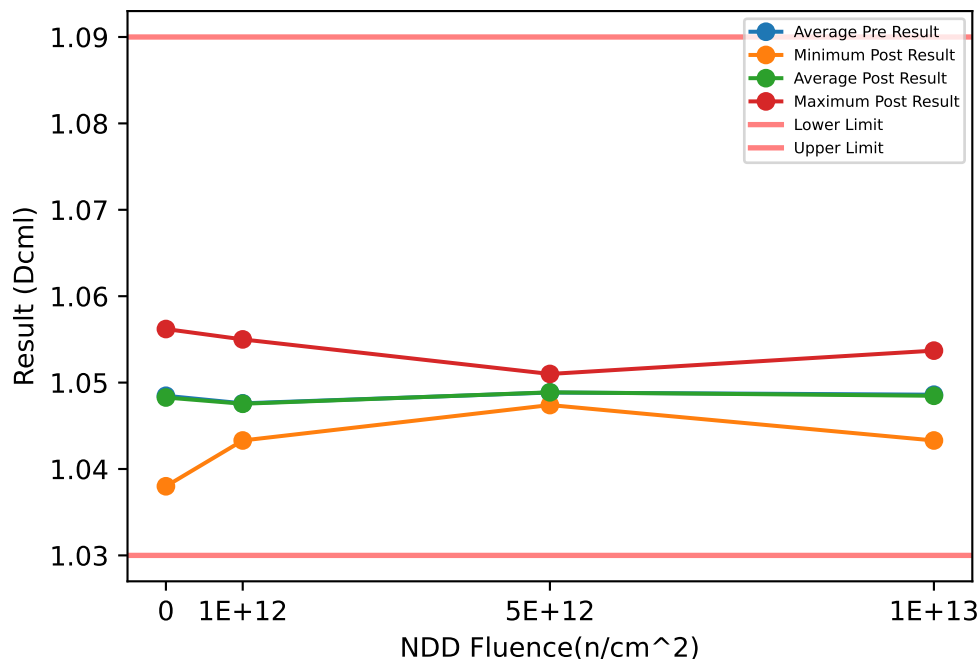
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.071	1.0804	1.0879	0.0080467	1.0697	1.0802	1.0883	0.008723	-0.0013	-0.000225	0.0004	0.00074554
1e+12	1.0757	1.0795	1.0868	0.0050731	1.0752	1.0793	1.0867	0.0053593	-0.0013	-0.000175	0.0009	0.00089954
5e+12	1.079	1.0808	1.0831	0.0018947	1.0791	1.0808	1.0832	0.001734	-0.0015	-5e-05	0.0011	0.0010755
1e+13	1.0767	1.0805	1.085	0.0042245	1.0749	1.0803	1.0858	0.0051814	-0.0022	-0.0002	0.0008	0.001354

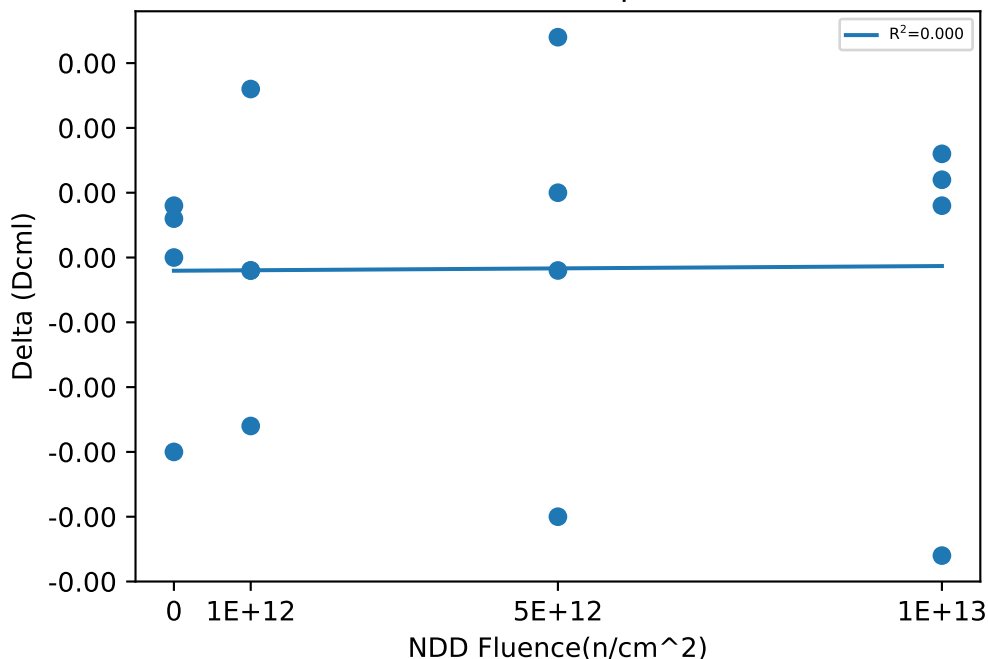
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.044	1.0439	-0.0001
101	1e+12	NDD	1.0446	1.0433	-0.0013
102	1e+12	NDD	1.0467	1.048	0.0013
103	1e+12	NDD	1.0551	1.055	-0.0001
104	5e+12	NDD	1.0469	1.0474	0.0005
105	5e+12	NDD	1.0499	1.0479	-0.002
106	5e+12	NDD	1.0511	1.051	-0.0001
107	5e+12	NDD	1.0475	1.0492	0.0017
108	1e+13	NDD	1.0448	1.0454	0.0006
109	1e+13	NDD	1.0456	1.0433	-0.0023
110	1e+13	NDD	1.0511	1.0515	0.0004
111	1e+13	NDD	1.0529	1.0537	0.0008
732	0	CORRELATION	1.0445	1.0448	0.0003
742	0	CORRELATION	1.0395	1.038	-0.0015
879	0	CORRELATION	1.0558	1.0562	0.0004
880	0	CORRELATION	1.0541	1.0541	0

NDD vs Post - Pre Exposure Delta

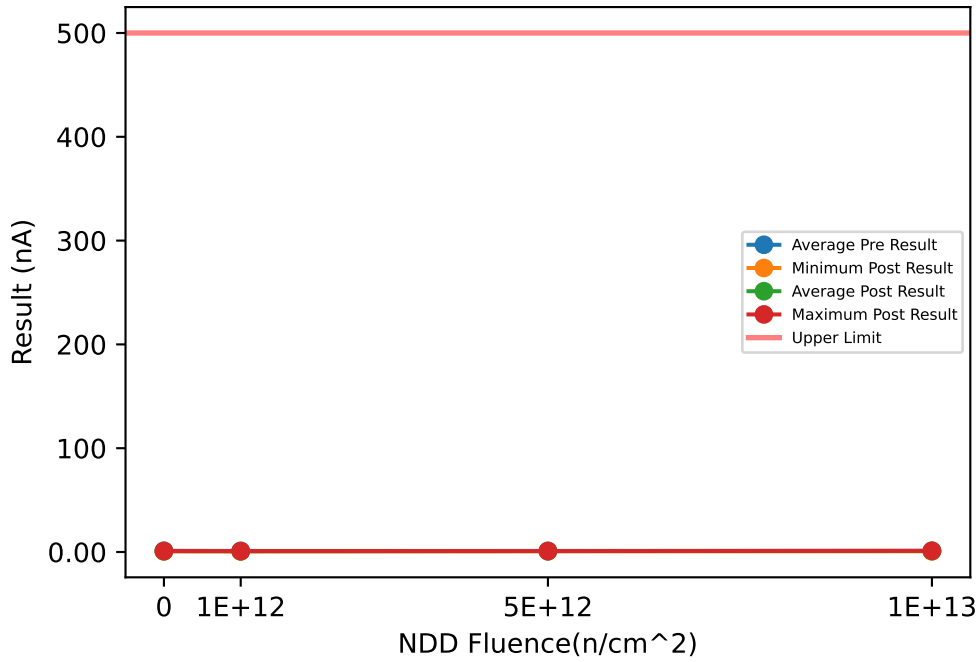


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0395	1.0485	1.0558	0.0077813	1.038	1.0483	1.0562	0.0084535	-0.0015	-0.0002	0.0004	0.00088318
1e+12	1.044	1.0476	1.0551	0.0051323	1.0433	1.0475	1.055	0.0053879	-0.0013	-5e-05	0.0013	0.001063
5e+12	1.0469	1.0489	1.0511	0.0019824	1.0474	1.0489	1.051	0.001607	-0.002	2.5e-05	0.0017	0.0015435
1e+13	1.0448	1.0486	1.0529	0.0040075	1.0433	1.0485	1.0537	0.0049223	-0.0023	-0.000125	0.0008	0.0014592

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

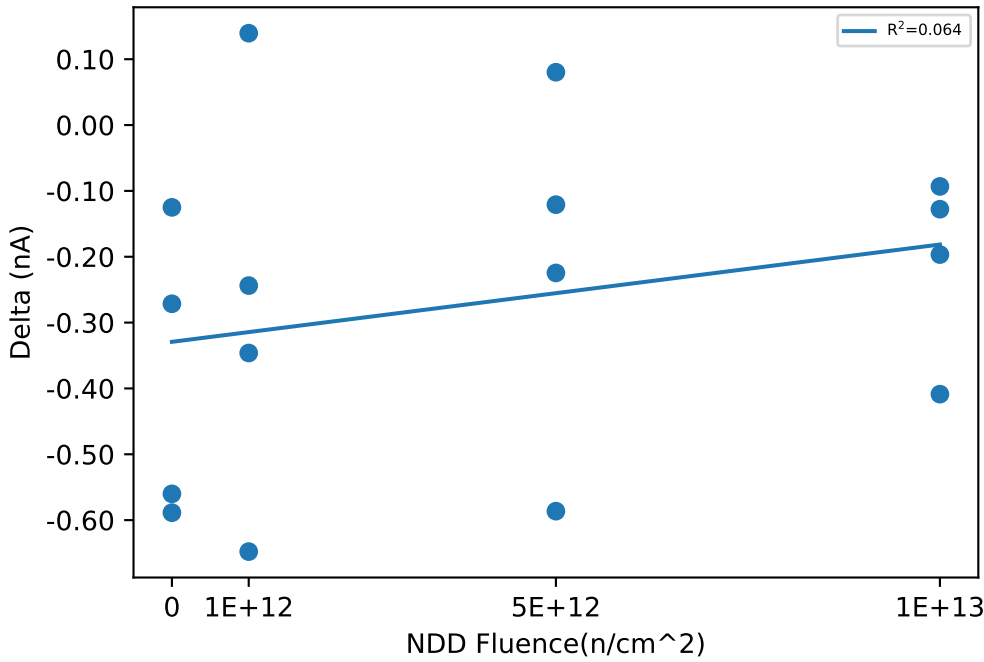
NDD vs Result Stats



Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.3681	0.7203	-0.6478
101	1e+12	NDD	1.106	0.7598	-0.3462
102	1e+12	NDD	0.7668	0.9063	0.1395
103	1e+12	NDD	0.8286	0.5848	-0.2438
104	5e+12	NDD	0.8817	0.7608	-0.1209
105	5e+12	NDD	1.4805	0.8941	-0.5864
106	5e+12	NDD	1.1247	0.9001	-0.2246
107	5e+12	NDD	0.6794	0.7596	0.0802
108	1e+13	NDD	0.8042	0.711	-0.0932
109	1e+13	NDD	0.9565	0.7598	-0.1967
110	1e+13	NDD	1.5897	1.181	-0.4087
111	1e+13	NDD	1.0685	0.9407	-0.1278
732	0	CORRELATION	1.2213	0.6612	-0.5601
742	0	CORRELATION	0.8473	0.7223	-0.125
879	0	CORRELATION	1.2183	0.9469	-0.2714
880	0	CORRELATION	1.365	0.7763	-0.5887

NDD vs Post - Pre Exposure Delta

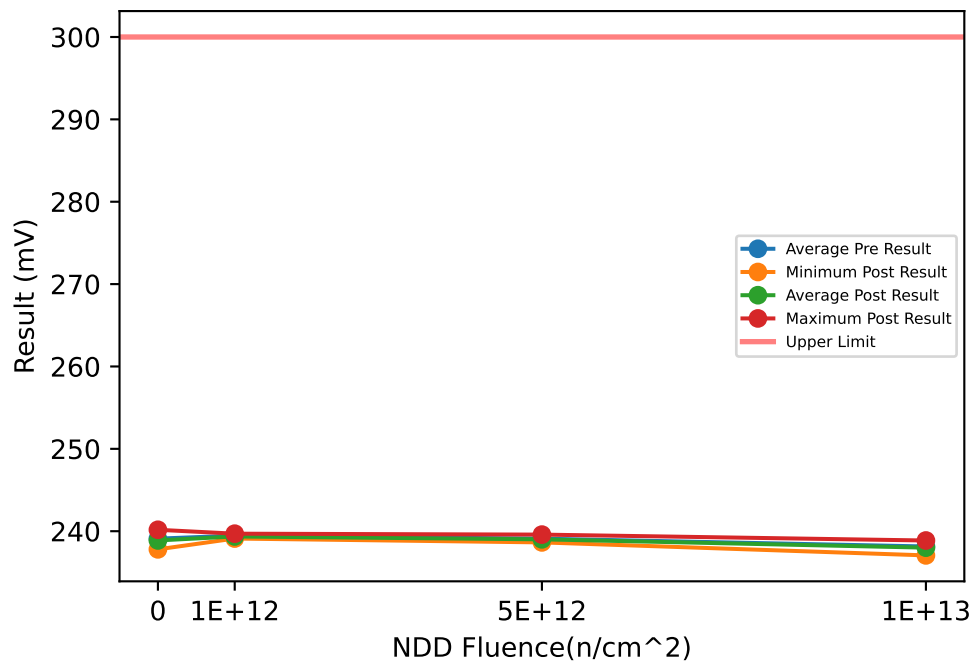


Test Statistics (nA)

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	0.8473	1.163	1.365	0.2213	0.6612	0.77668	0.9469	0.12284	-0.5887	-0.3863	-0.125	0.22557
1e+12	0.7668	1.0174	1.3681	0.27646	0.5848	0.7428	0.9063	0.13228	-0.6478	-0.27458	0.1395	0.32498
5e+12	0.6794	1.0416	1.4805	0.34462	0.7596	0.82865	0.9001	0.079079	-0.5864	-0.21292	0.0802	0.27929
1e+13	0.8042	1.1047	1.5897	0.34098	0.711	0.89813	1.181	0.2129	-0.4087	-0.2066	-0.0932	0.14143

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

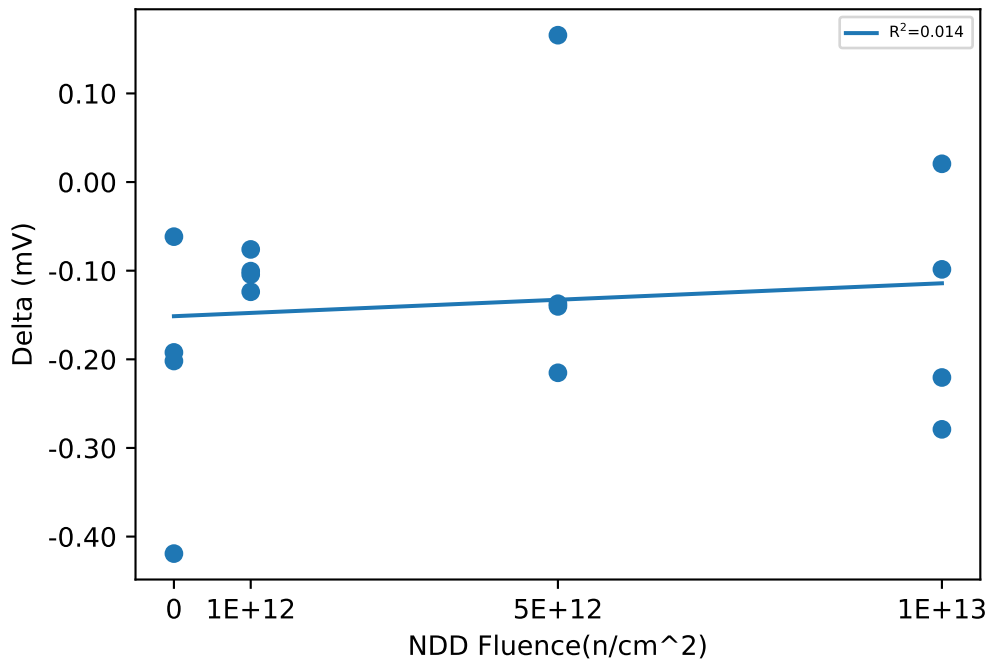
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	239.82	239.7	-0.1238
101	1e+12	NDD	239.21	239.11	-0.1005
102	1e+12	NDD	239.19	239.12	-0.076
103	1e+12	NDD	239.62	239.52	-0.1043
104	5e+12	NDD	239	238.86	-0.1403
105	5e+12	NDD	238.86	238.64	-0.2152
106	5e+12	NDD	239.72	239.59	-0.1373
107	5e+12	NDD	238.8	238.97	0.1657
108	1e+13	NDD	238.85	238.87	0.0206
109	1e+13	NDD	237.34	237.06	-0.279
110	1e+13	NDD	237.98	237.76	-0.2205
111	1e+13	NDD	238.41	238.31	-0.0985
732	0	CORRELATION	239.73	239.53	-0.2019
742	0	CORRELATION	238.22	237.8	-0.4192
879	0	CORRELATION	240.36	240.17	-0.1922
880	0	CORRELATION	238.07	238.01	-0.0616

NDD vs Post - Pre Exposure Delta

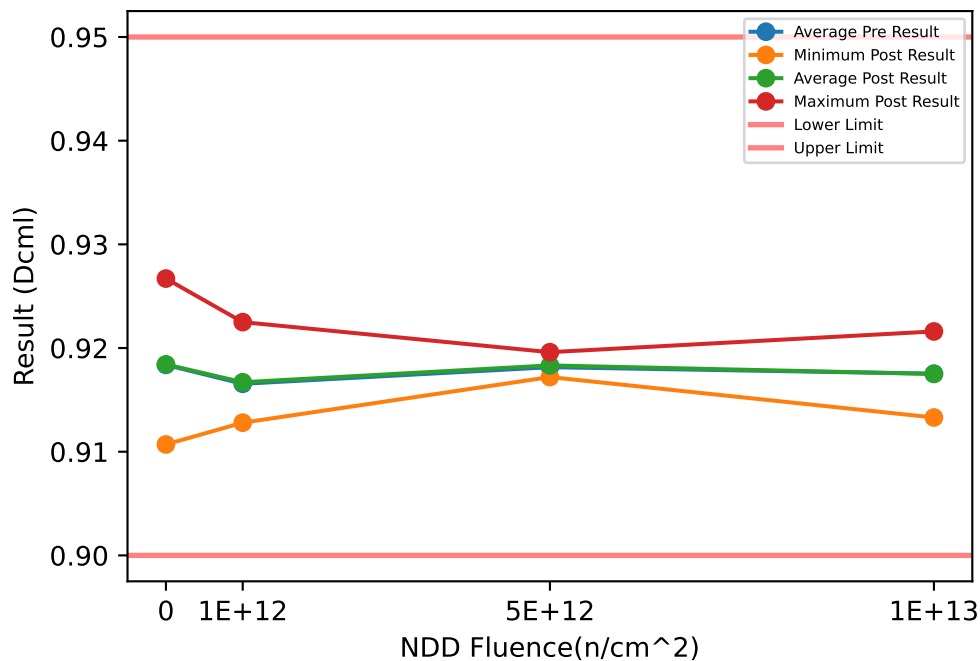


Test Statistics (mV)

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	238.07	239.1	240.36	1.1298	237.8	238.88	240.17	1.1569	-0.4192	-0.21873	-0.0616	0.14817
1e+12	239.19	239.46	239.82	0.31162	239.11	239.36	239.7	0.29514	-0.1238	-0.10115	-0.076	0.019629
5e+12	238.8	239.1	239.72	0.42734	238.64	239.01	239.59	0.40627	-0.2152	-0.081775	0.1657	0.16887
1e+13	237.34	238.15	238.85	0.64354	237.06	238	238.87	0.77342	-0.279	-0.14435	0.0206	0.13322

Device Test: 23.9 THRESHOLD|FALL/PWRGD/5///4011/@VSENSE_VTH_FALLING_FAULT

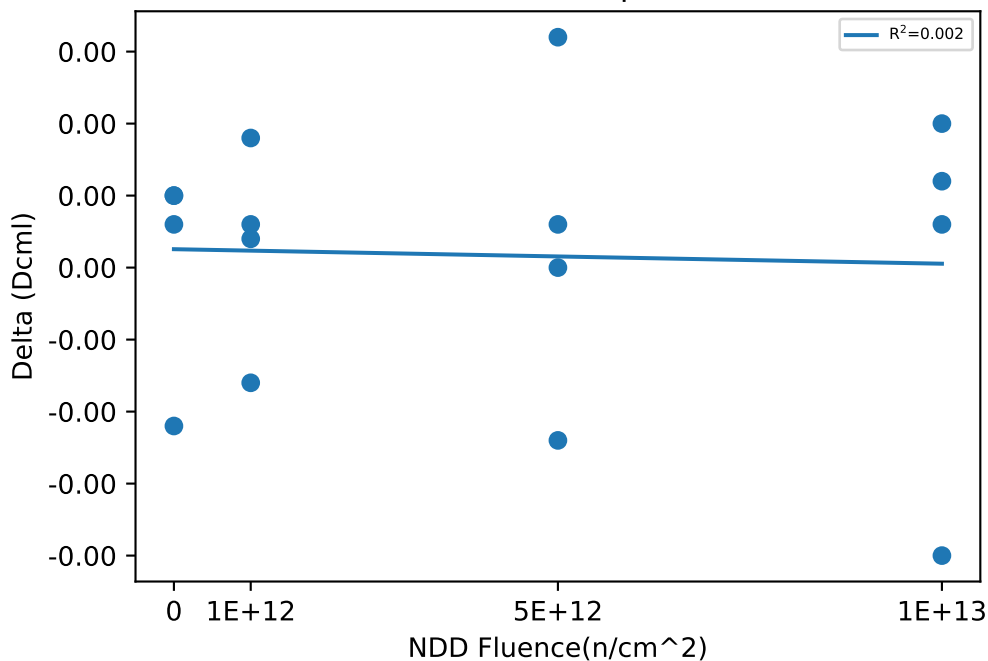
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.9149	0.9151	0.0002
101	1e+12	NDD	0.9136	0.9128	-0.0008
102	1e+12	NDD	0.9155	0.9164	0.0009
103	1e+12	NDD	0.9222	0.9225	0.0003
104	5e+12	NDD	0.9184	0.9187	0.0003
105	5e+12	NDD	0.9184	0.9172	-0.0012
106	5e+12	NDD	0.9178	0.9178	0
107	5e+12	NDD	0.918	0.9196	0.0016
108	1e+13	NDD	0.9145	0.9155	0.001
109	1e+13	NDD	0.9153	0.9133	-0.002
110	1e+13	NDD	0.9213	0.9216	0.0003
111	1e+13	NDD	0.919	0.9196	0.0006
732	0	CORRELATION	0.9134	0.9137	0.0003
742	0	CORRELATION	0.9118	0.9107	-0.0011
879	0	CORRELATION	0.9262	0.9267	0.0005
880	0	CORRELATION	0.9221	0.9226	0.0005

NDD vs Post - Pre Exposure Delta

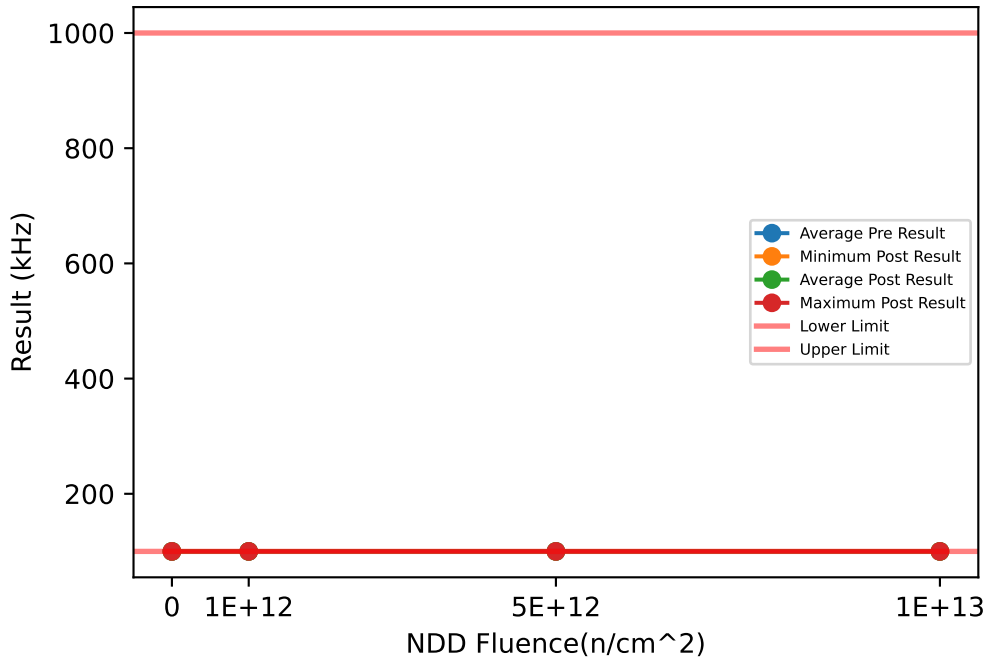


Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9118	0.91838	0.9262	0.0069062	0.9107	0.91842	0.9267	0.0074813	-0.0011	5e-05	0.0005	0.00077244
1e+12	0.9136	0.91655	0.9222	0.0038492	0.9128	0.9167	0.9225	0.0041433	-0.0008	0.00015	0.0009	0.00070475
5e+12	0.9178	0.91815	0.9184	0.0003	0.9172	0.91832	0.9196	0.00105	-0.0012	0.000175	0.0016	0.00115
1e+13	0.9145	0.91753	0.9213	0.00319	0.9133	0.9175	0.9216	0.0037798	-0.002	-2.5e-05	0.001	0.0013475

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

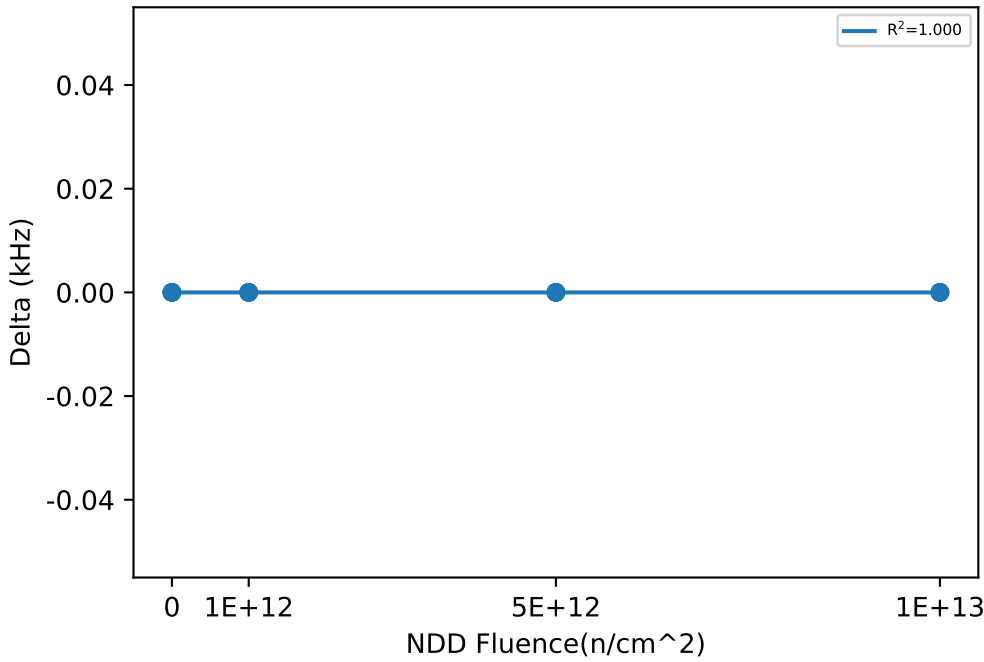
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	100	100	0
101	1e+12	NDD	100	100	0
102	1e+12	NDD	100	100	0
103	1e+12	NDD	100	100	0
104	5e+12	NDD	100	100	0
105	5e+12	NDD	100	100	0
106	5e+12	NDD	100	100	0
107	5e+12	NDD	100	100	0
108	1e+13	NDD	100	100	0
109	1e+13	NDD	100	100	0
110	1e+13	NDD	100	100	0
111	1e+13	NDD	100	100	0
732	0	CORRELATION	100	100	0
742	0	CORRELATION	100	100	0
879	0	CORRELATION	100	100	0
880	0	CORRELATION	100	100	0

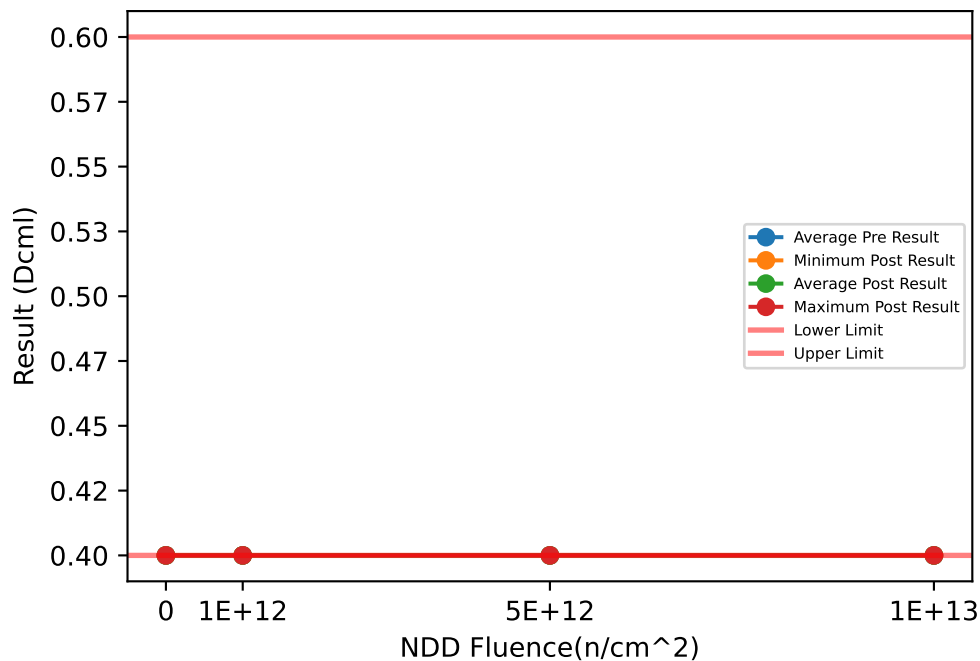
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
1e+12	100	100	100	0	100	100	100	0	0	0	0	0
5e+12	100	100	100	0	100	100	100	0	0	0	0	0
1e+13	100	100	100	0	100	100	100	0	0	0	0	0

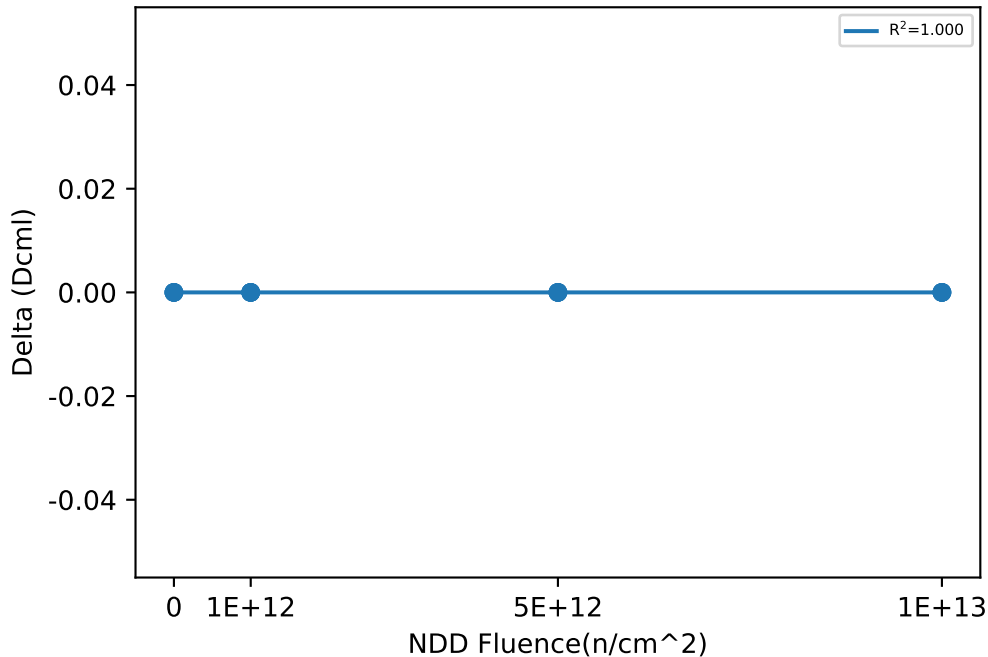
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4	0.4	0
101	1e+12	NDD	0.4	0.4	0
102	1e+12	NDD	0.4	0.4	0
103	1e+12	NDD	0.4	0.4	0
104	5e+12	NDD	0.4	0.4	0
105	5e+12	NDD	0.4	0.4	0
106	5e+12	NDD	0.4	0.4	0
107	5e+12	NDD	0.4	0.4	0
108	1e+13	NDD	0.4	0.4	0
109	1e+13	NDD	0.4	0.4	0
110	1e+13	NDD	0.4	0.4	0
111	1e+13	NDD	0.4	0.4	0
732	0	CORRELATION	0.4	0.4	0
742	0	CORRELATION	0.4	0.4	0
879	0	CORRELATION	0.4	0.4	0
880	0	CORRELATION	0.4	0.4	0

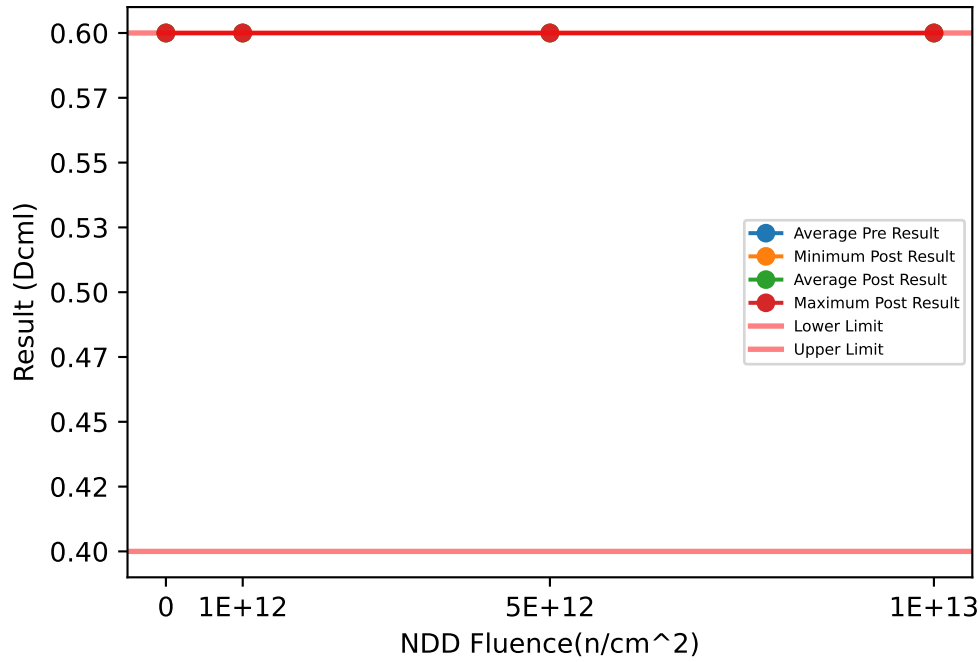
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
5e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+13	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

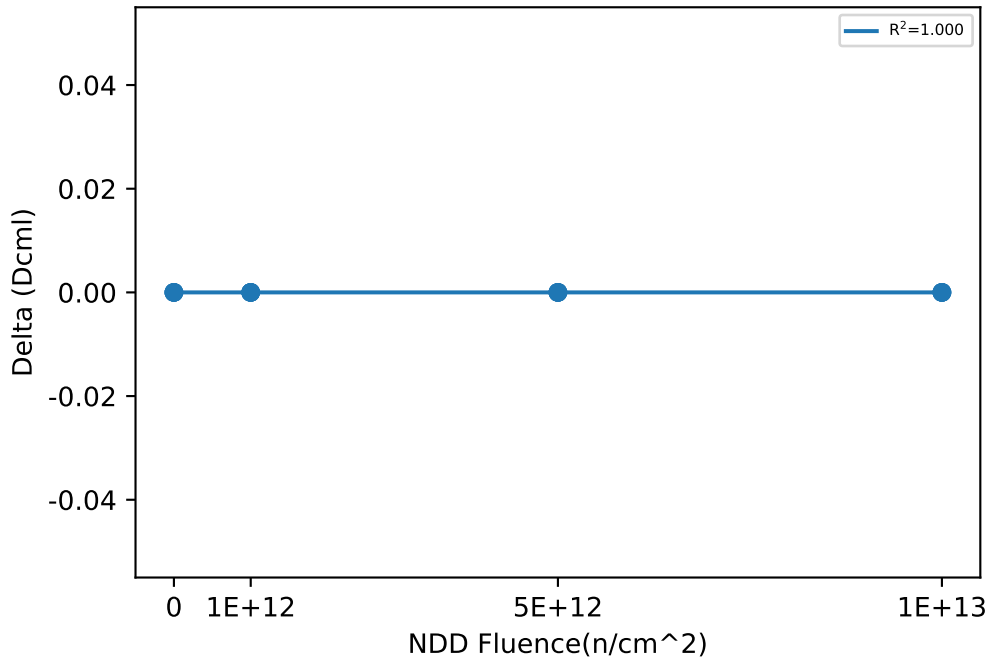
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6	0.6	0
101	1e+12	NDD	0.6	0.6	0
102	1e+12	NDD	0.6	0.6	0
103	1e+12	NDD	0.6	0.6	0
104	5e+12	NDD	0.6	0.6	0
105	5e+12	NDD	0.6	0.6	0
106	5e+12	NDD	0.6	0.6	0
107	5e+12	NDD	0.6	0.6	0
108	1e+13	NDD	0.6	0.6	0
109	1e+13	NDD	0.6	0.6	0
110	1e+13	NDD	0.6	0.6	0
111	1e+13	NDD	0.6	0.6	0
732	0	CORRELATION	0.6	0.6	0
742	0	CORRELATION	0.6	0.6	0
879	0	CORRELATION	0.6	0.6	0
880	0	CORRELATION	0.6	0.6	0

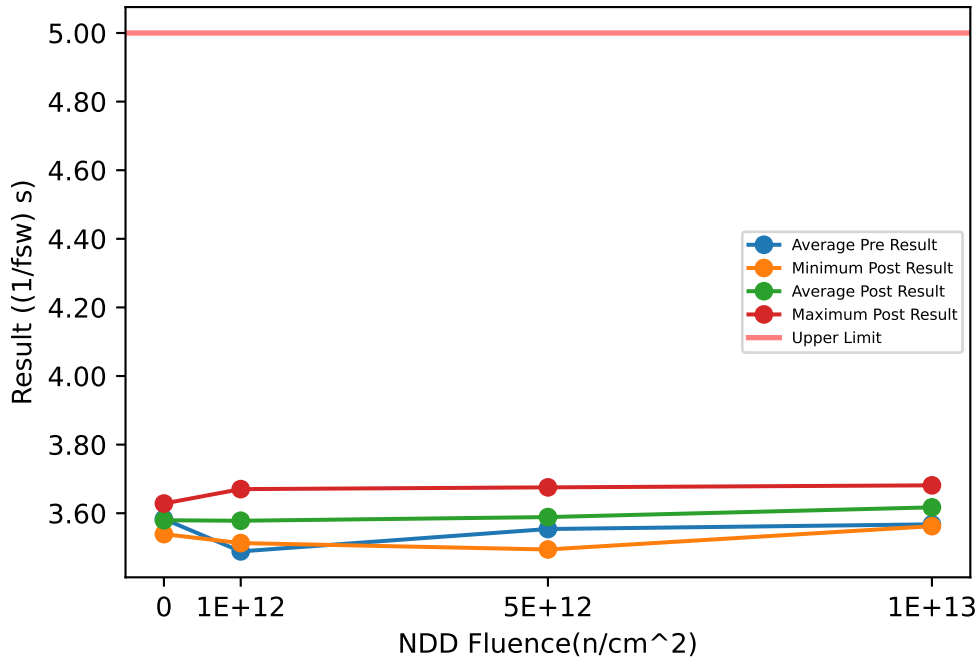
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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

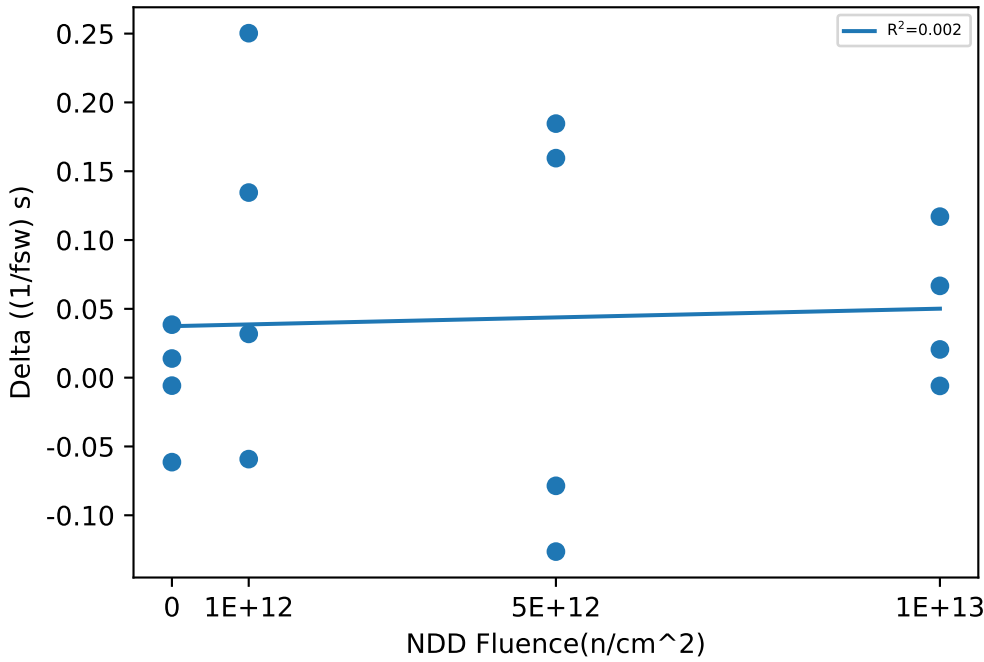
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.5722	3.513	-0.0592
101	1e+12	NDD	3.42	3.6703	0.2503
102	1e+12	NDD	3.5104	3.5422	0.0318
103	1e+12	NDD	3.4523	3.5868	0.1345
104	5e+12	NDD	3.5159	3.6754	0.1595
105	5e+12	NDD	3.5729	3.4943	-0.0786
106	5e+12	NDD	3.6364	3.51	-0.1264
107	5e+12	NDD	3.4907	3.6753	0.1846
108	1e+13	NDD	3.5734	3.5674	-0.006
109	1e+13	NDD	3.6608	3.6813	0.0205
110	1e+13	NDD	3.5408	3.6578	0.117
111	1e+13	NDD	3.4955	3.5622	0.0667
732	0	CORRELATION	3.532	3.5705	0.0385
742	0	CORRELATION	3.5663	3.5802	0.0139
879	0	CORRELATION	3.6897	3.6283	-0.0614
880	0	CORRELATION	3.5449	3.5391	-0.0058

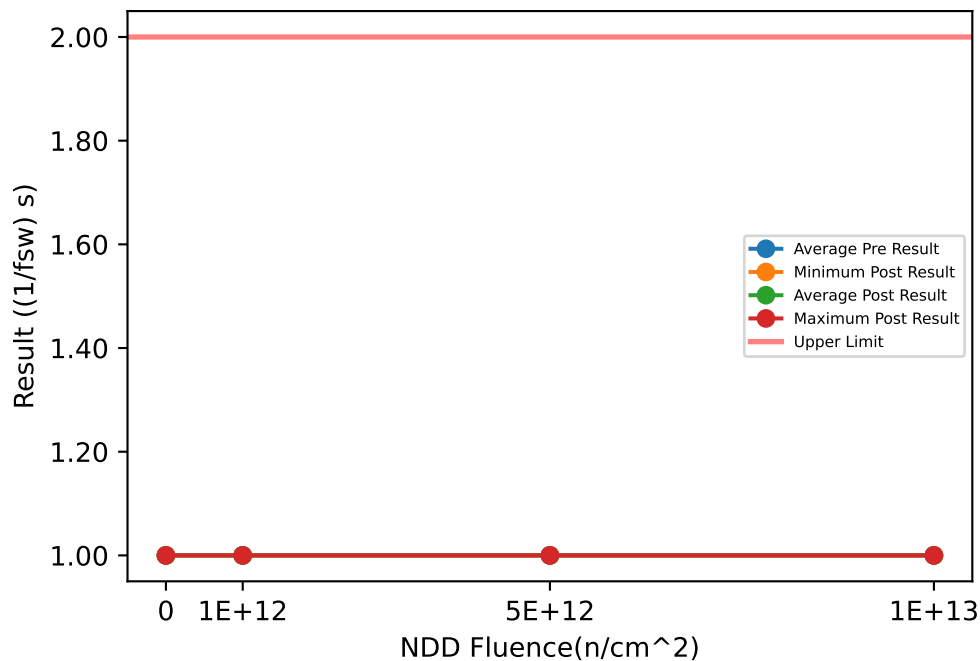
NDD vs Post - Pre Exposure Delta



Test Statistics ((1/fsw) 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	3.532	3.5832	3.6897	0.072379	3.5391	3.5795	3.6283	0.036946	-0.0614	-0.0037	0.0385	0.042522
1e+12	3.42	3.4887	3.5722	0.067052	3.513	3.5781	3.6703	0.068565	-0.0592	0.08935	0.2503	0.13332
5e+12	3.4907	3.554	3.6364	0.064821	3.4943	3.5888	3.6754	0.1002	-0.1264	0.034775	0.1846	0.16004
1e+13	3.4955	3.5676	3.6608	0.069849	3.5622	3.6172	3.6813	0.06127	-0.006	0.04955	0.117	0.054078

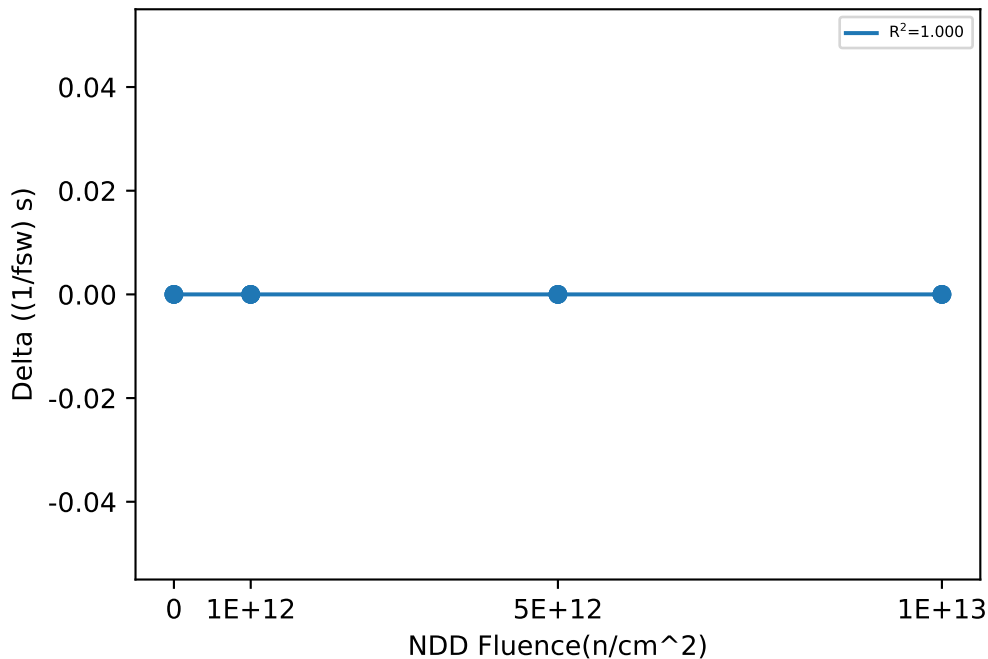
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1	1	0
101	1e+12	NDD	1	1	0
102	1e+12	NDD	1	1	0
103	1e+12	NDD	1	1	0
104	5e+12	NDD	1	1	0
105	5e+12	NDD	1	1	0
106	5e+12	NDD	1	1	0
107	5e+12	NDD	1	1	0
108	1e+13	NDD	1	1	0
109	1e+13	NDD	1	1	0
110	1e+13	NDD	1	1	0
111	1e+13	NDD	1	1	0
732	0	CORRELATION	1	1	0
742	0	CORRELATION	1	1	0
879	0	CORRELATION	1	1	0
880	0	CORRELATION	1	1	0

NDD vs Post - Pre Exposure Delta

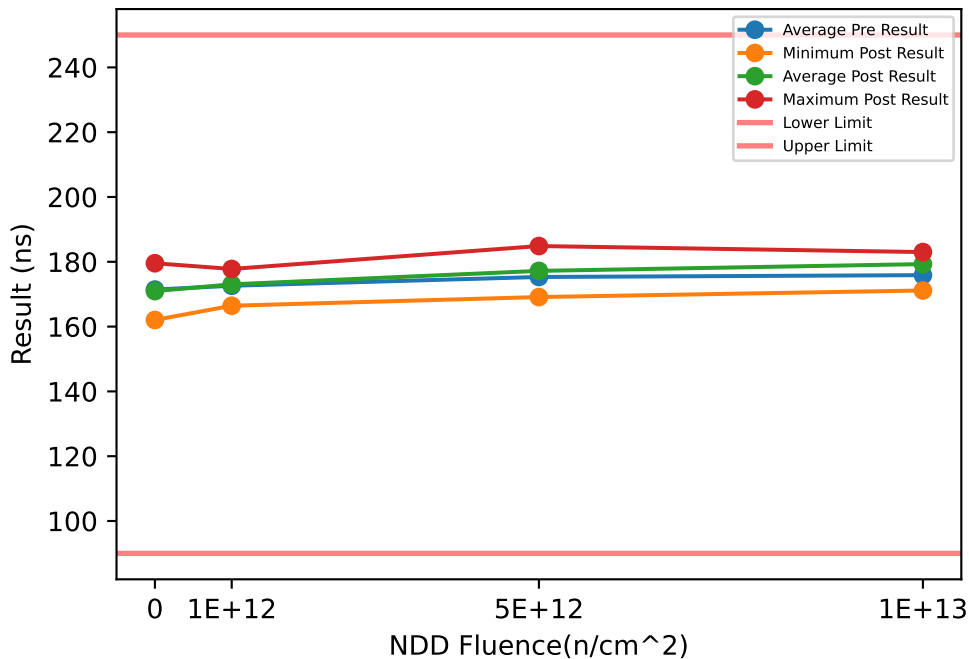


Test Statistics ((1/fsw) s)

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	1	1	0	1	1	1	0	0	0	0	0
1e+12	1	1	1	0	1	1	1	0	0	0	0	0
5e+12	1	1	1	0	1	1	1	0	0	0	0	0
1e+13	1	1	1	0	1	1	1	0	0	0	0	0

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

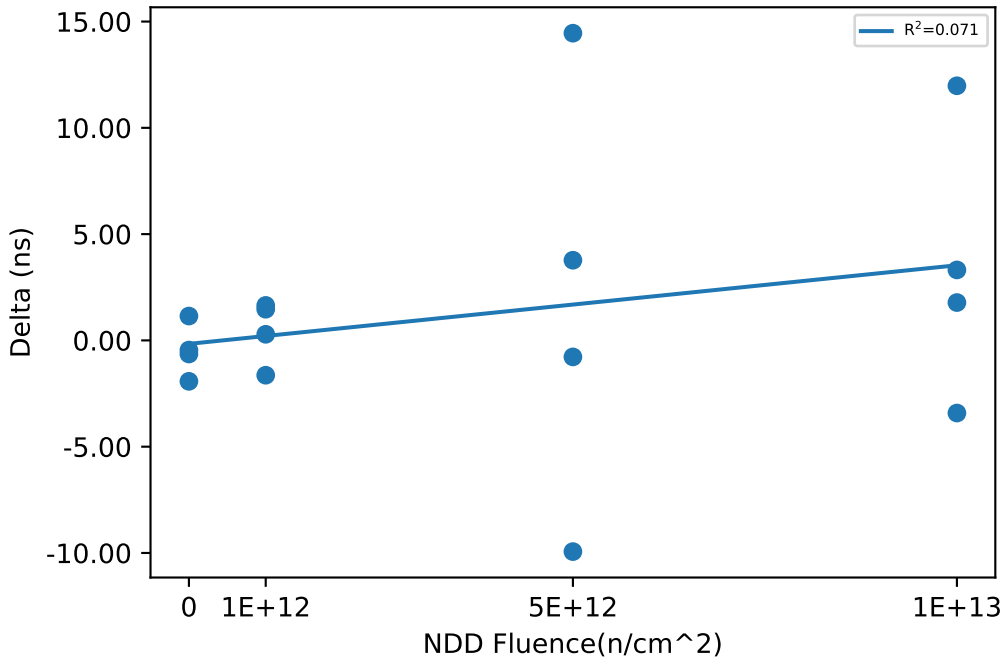
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	166.15	166.44	0.2875
101	1e+12	NDD	176.14	177.79	1.6457
102	1e+12	NDD	170.39	171.86	1.4672
103	1e+12	NDD	177.73	176.09	-1.6378
104	5e+12	NDD	179.06	169.12	-9.9356
105	5e+12	NDD	170.41	184.86	14.452
106	5e+12	NDD	181.3	180.52	-0.7765
107	5e+12	NDD	170.5	174.27	3.7717
108	1e+13	NDD	174.56	171.14	-3.4169
109	1e+13	NDD	177.93	181.25	3.3153
110	1e+13	NDD	169.8	181.78	11.979
111	1e+13	NDD	181.22	183	1.7809
732	0	CORRELATION	162.5	162.04	-0.4544
742	0	CORRELATION	178.41	179.55	1.1455
879	0	CORRELATION	176.04	174.11	-1.9258
880	0	CORRELATION	168.74	168.1	-0.6397

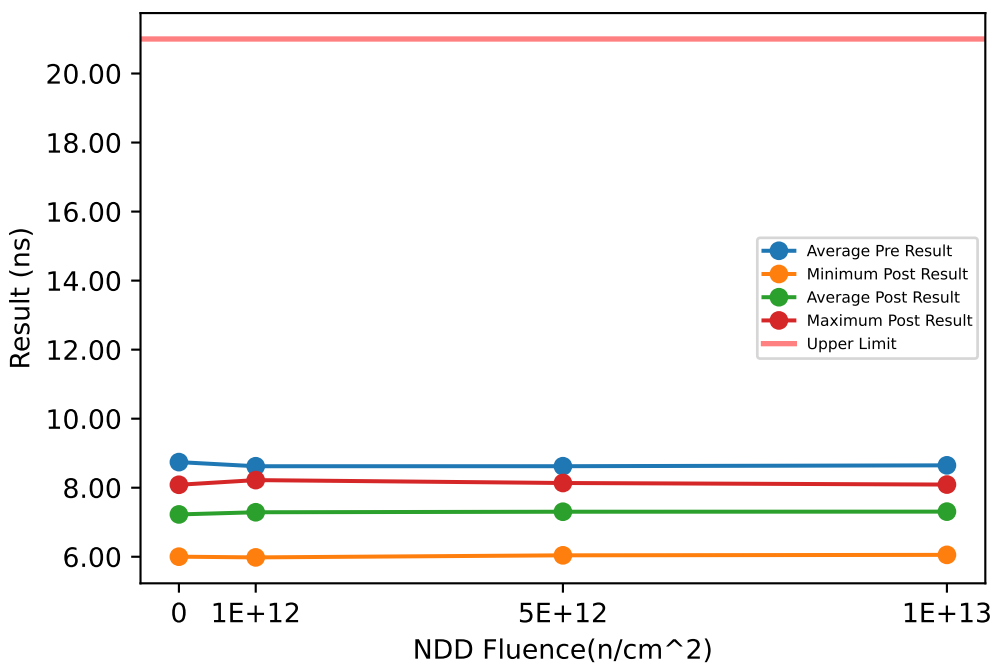
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	162.5	171.42	178.41	7.2325	162.04	170.95	179.55	7.5599	-1.9258	-0.4686	1.1455	1.2594
1e+12	166.15	172.6	177.73	5.3328	166.44	173.05	177.79	5.06	-1.6378	0.44065	1.6457	1.511
5e+12	170.41	175.31	181.3	5.6876	169.12	177.19	184.86	6.9198	-9.9356	1.878	14.452	10.138
1e+13	169.8	175.88	181.22	4.8809	171.14	179.29	183	5.4821	-3.4169	3.4146	11.979	6.3952

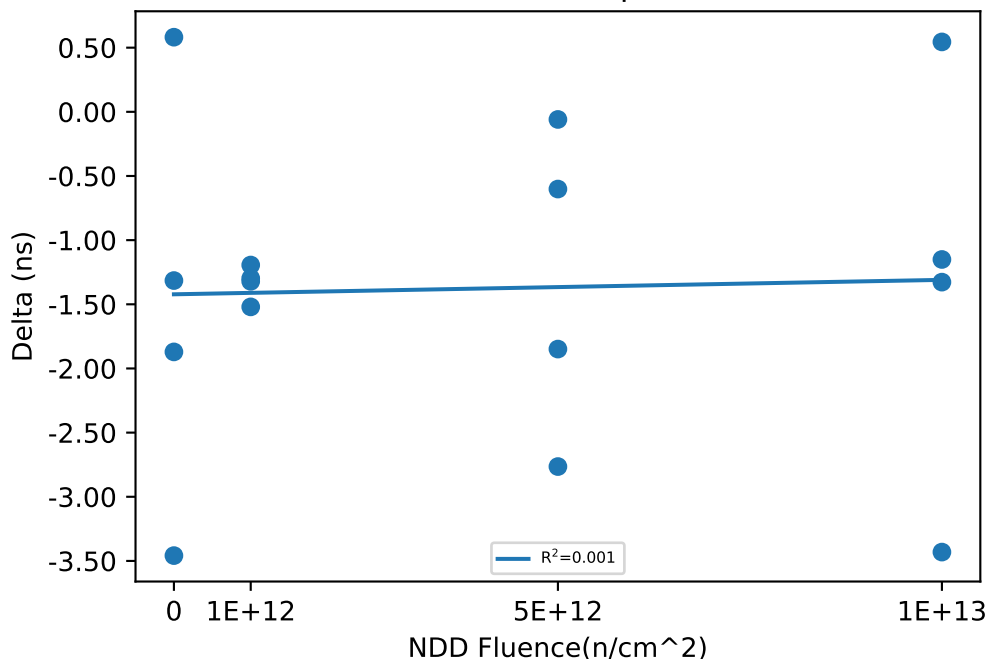
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	8.7047	7.4075	-1.2972
101	1e+12	NDD	9.5415	8.2205	-1.321
102	1e+12	NDD	8.7408	7.5469	-1.1939
103	1e+12	NDD	7.5013	5.9812	-1.5201
104	5e+12	NDD	7.5108	7.4514	-0.0594
105	5e+12	NDD	8.7383	8.1365	-0.6018
106	5e+12	NDD	9.4371	7.5882	-1.8489
107	5e+12	NDD	8.8057	6.0412	-2.7645
108	1e+13	NDD	8.7537	7.4265	-1.3272
109	1e+13	NDD	7.5465	8.0913	0.5448
110	1e+13	NDD	8.8074	7.6568	-1.1506
111	1e+13	NDD	9.4856	6.0546	-3.431
732	0	CORRELATION	8.7085	7.3936	-1.3149
742	0	CORRELATION	7.5037	8.0853	0.5816
879	0	CORRELATION	9.4604	6.002	-3.4584
880	0	CORRELATION	9.2944	7.4234	-1.871

NDD vs Post - Pre Exposure Delta

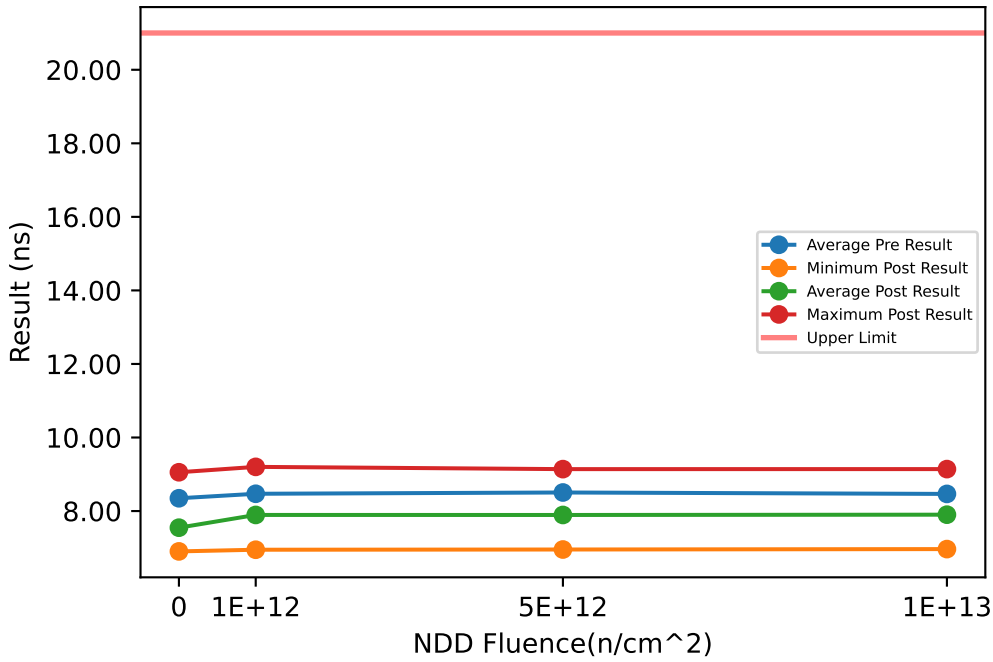


Test Statistics (ns)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.5037	8.7417	9.4604	0.88614	6.002	7.2261	8.0853	0.87629	-3.4584	-1.5157	0.5816	1.6673
1e+12	7.5013	8.6221	9.5415	0.84111	5.9812	7.289	8.2205	0.94138	-1.5201	-1.3331	-1.1939	0.13636
5e+12	7.5108	8.623	9.4371	0.80549	6.0412	7.3043	8.1365	0.8926	-2.7645	-1.3187	-0.0594	1.2208
1e+13	7.5465	8.6483	9.4856	0.80653	6.0546	7.3073	8.0913	0.87945	-3.431	-1.341	0.5448	1.629

Device Test: 24.108 TIMING|RISE/SYNC2/12//511k//@SYNC_LH_RISE_TIME

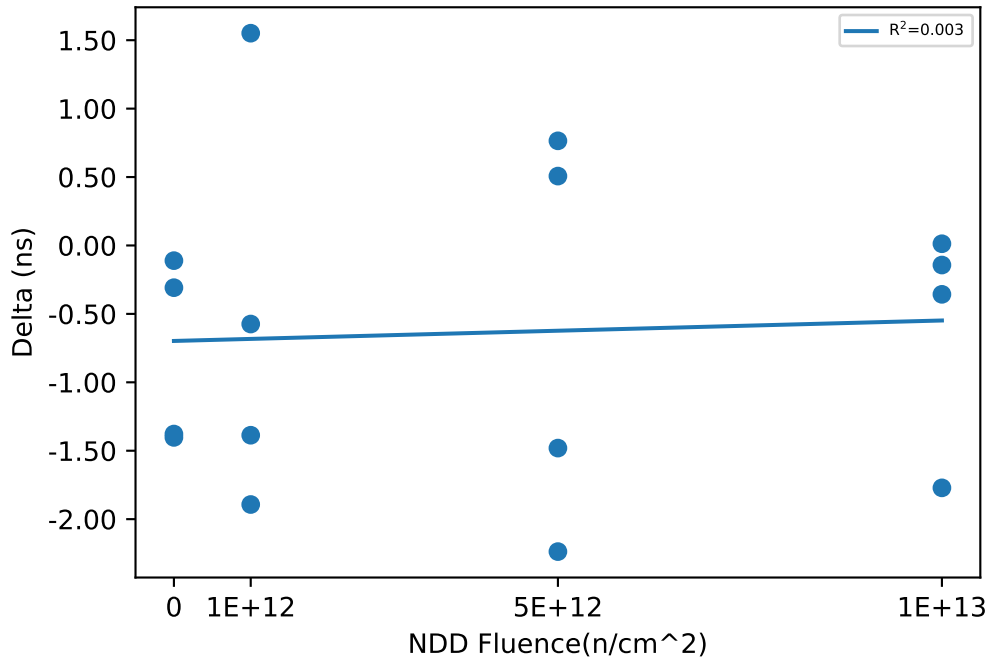
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	8.335	6.9483	-1.3867
101	1e+12	NDD	7.6504	9.2016	1.5512
102	1e+12	NDD	8.7606	8.1865	-0.5741
103	1e+12	NDD	9.134	7.241	-1.893
104	5e+12	NDD	9.1915	6.9544	-2.2371
105	5e+12	NDD	8.3756	9.1403	0.7647
106	5e+12	NDD	7.6296	8.1366	0.507
107	5e+12	NDD	8.8232	7.3425	-1.4807
108	1e+13	NDD	8.737	6.9657	-1.7713
109	1e+13	NDD	9.1284	9.141	0.0126
110	1e+13	NDD	8.3889	8.2459	-0.143
111	1e+13	NDD	7.6105	7.2534	-0.3571
732	0	CORRELATION	8.3304	6.9523	-1.3781
742	0	CORRELATION	9.1659	9.055	-0.1109
879	0	CORRELATION	7.5895	7.281	-0.3085
880	0	CORRELATION	8.3056	6.903	-1.4026

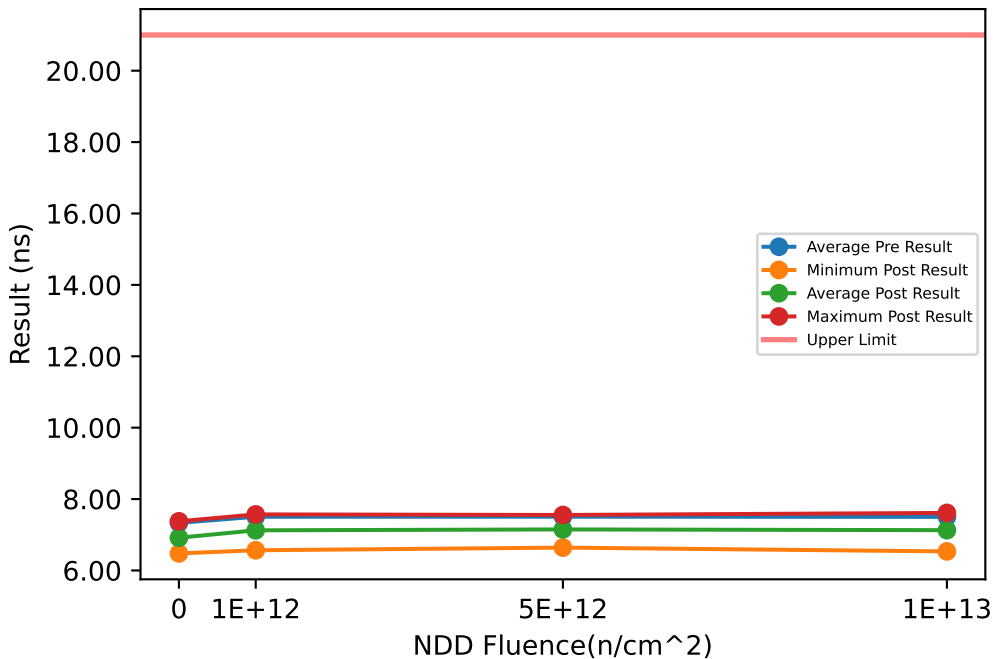
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.5895	8.3479	9.1659	0.64456	6.903	7.5478	9.055	1.0187	-1.4026	-0.80003	-0.1109	0.68648
1e+12	7.6504	8.47	9.134	0.63648	6.9483	7.8943	9.2016	1.0192	-1.893	-0.57565	1.5512	1.5184
5e+12	7.6296	8.505	9.1915	0.67221	6.9544	7.8934	9.1403	0.96594	-2.2371	-0.61153	0.7647	1.4768
1e+13	7.6105	8.4662	9.1284	0.64551	6.9657	7.9015	9.141	0.99175	-1.7713	-0.5647	0.0126	0.81855

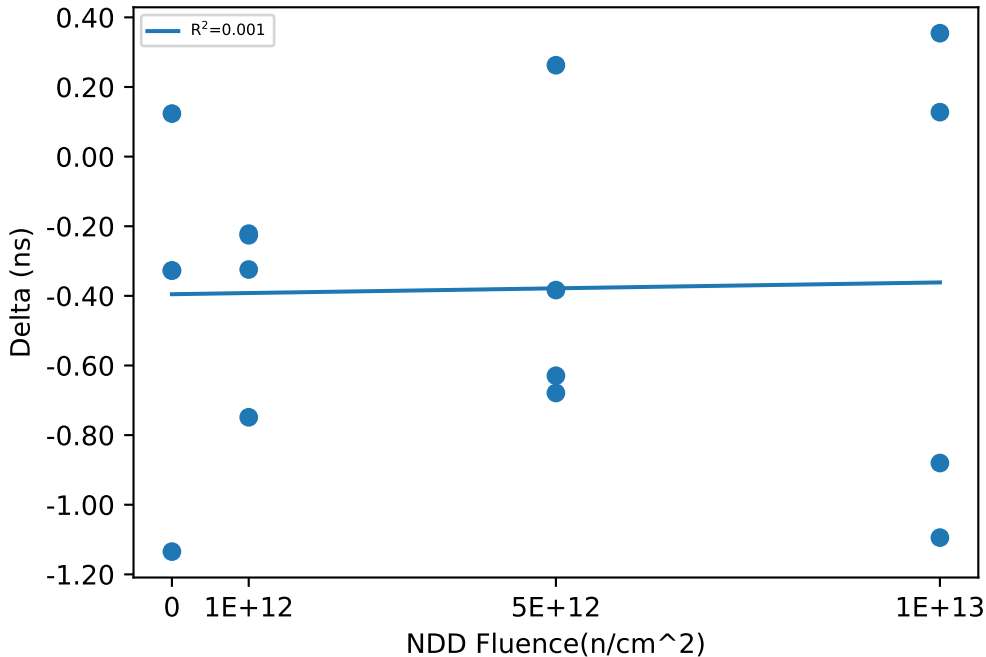
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	7.262	6.9377	-0.3243
101	1e+12	NDD	7.3143	6.5655	-0.7488
102	1e+12	NDD	7.7914	7.5701	-0.2213
103	1e+12	NDD	7.6508	7.4248	-0.226
104	5e+12	NDD	7.635	6.9561	-0.6789
105	5e+12	NDD	7.2698	6.6403	-0.6295
106	5e+12	NDD	7.2919	7.5544	0.2625
107	5e+12	NDD	7.8293	7.4459	-0.3834
108	1e+13	NDD	7.8228	6.9426	-0.8802
109	1e+13	NDD	7.6283	6.5339	-1.0944
110	1e+13	NDD	7.2575	7.612	0.3545
111	1e+13	NDD	7.2978	7.4255	0.1277
732	0	CORRELATION	7.2449	6.9174	-0.3275
742	0	CORRELATION	7.6125	6.4779	-1.1346
879	0	CORRELATION	7.2531	7.3767	0.1236
880	0	CORRELATION	7.2224	6.8954	-0.327

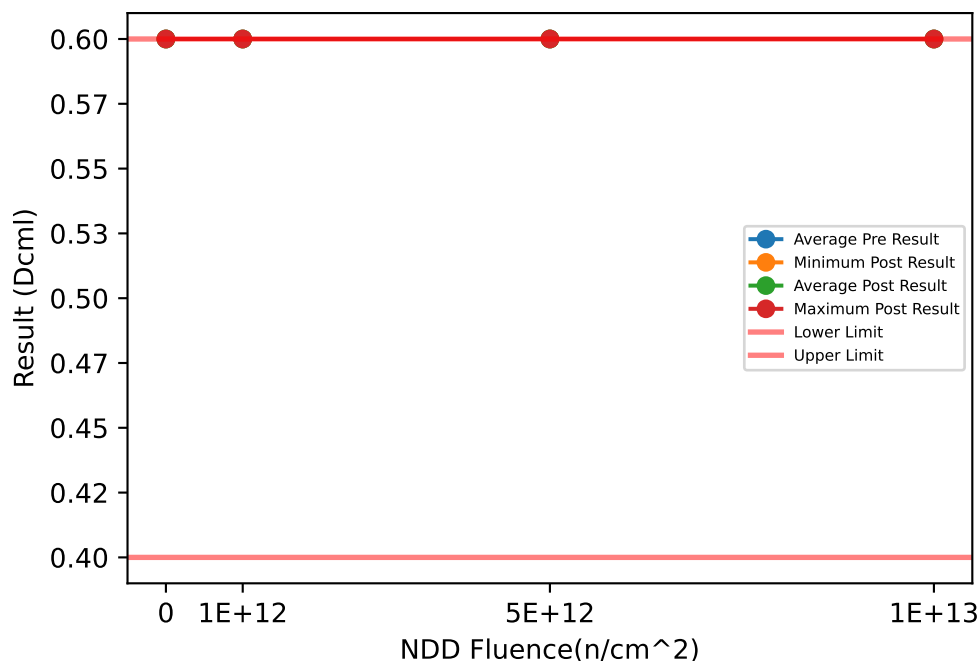
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.2224	7.3332	7.6125	0.18664	6.4779	6.9169	7.3767	0.36724	-1.1346	-0.41638	0.1236	0.52387
1e+12	7.262	7.5046	7.7914	0.25736	6.5655	7.1245	7.5701	0.46048	-0.7488	-0.3801	-0.2213	0.25034
5e+12	7.2698	7.5065	7.8293	0.27251	6.6403	7.1492	7.5544	0.42758	-0.6789	-0.35732	0.2625	0.43296
1e+13	7.2575	7.5016	7.8228	0.27101	6.5339	7.1285	7.612	0.48651	-1.0944	-0.3731	0.3545	0.72056

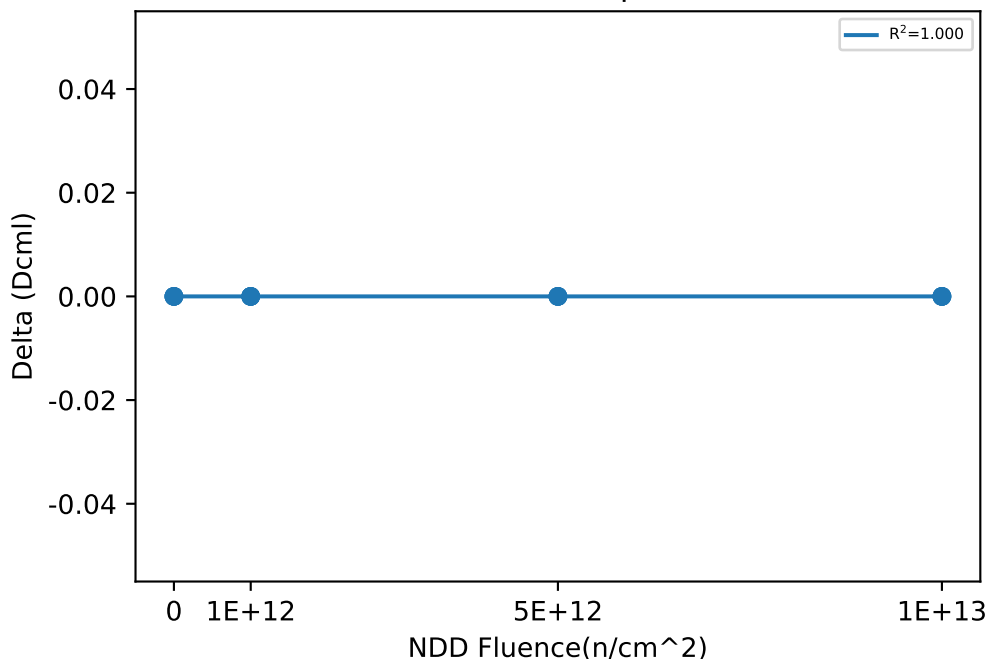
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6	0.6	0
101	1e+12	NDD	0.6	0.6	0
102	1e+12	NDD	0.6	0.6	0
103	1e+12	NDD	0.6	0.6	0
104	5e+12	NDD	0.6	0.6	0
105	5e+12	NDD	0.6	0.6	0
106	5e+12	NDD	0.6	0.6	0
107	5e+12	NDD	0.6	0.6	0
108	1e+13	NDD	0.6	0.6	0
109	1e+13	NDD	0.6	0.6	0
110	1e+13	NDD	0.6	0.6	0
111	1e+13	NDD	0.6	0.6	0
732	0	CORRELATION	0.6	0.6	0
742	0	CORRELATION	0.6	0.6	0
879	0	CORRELATION	0.6	0.6	0
880	0	CORRELATION	0.6	0.6	0

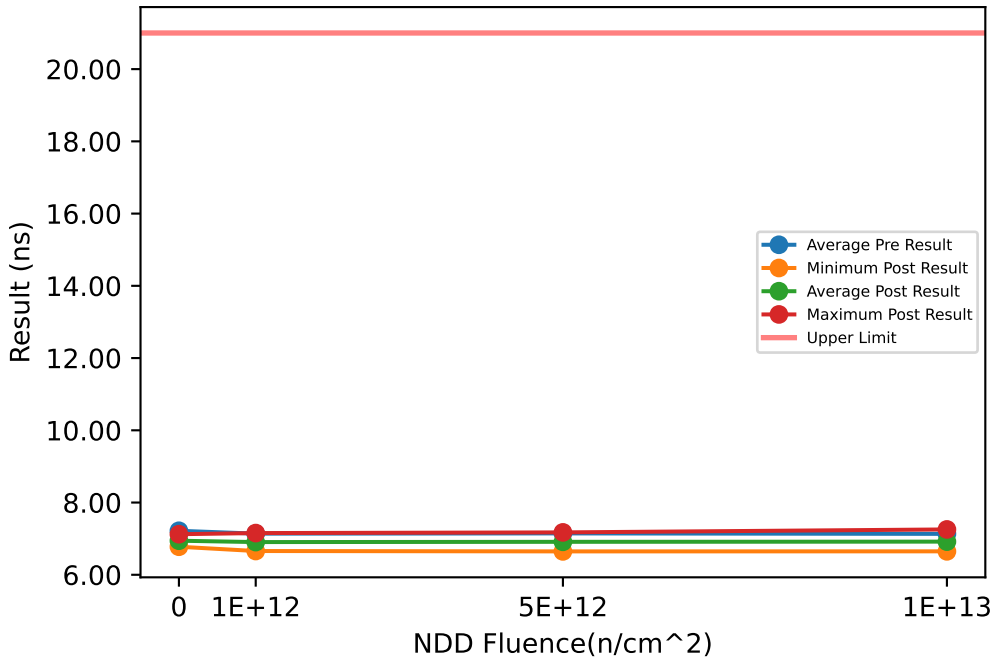
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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

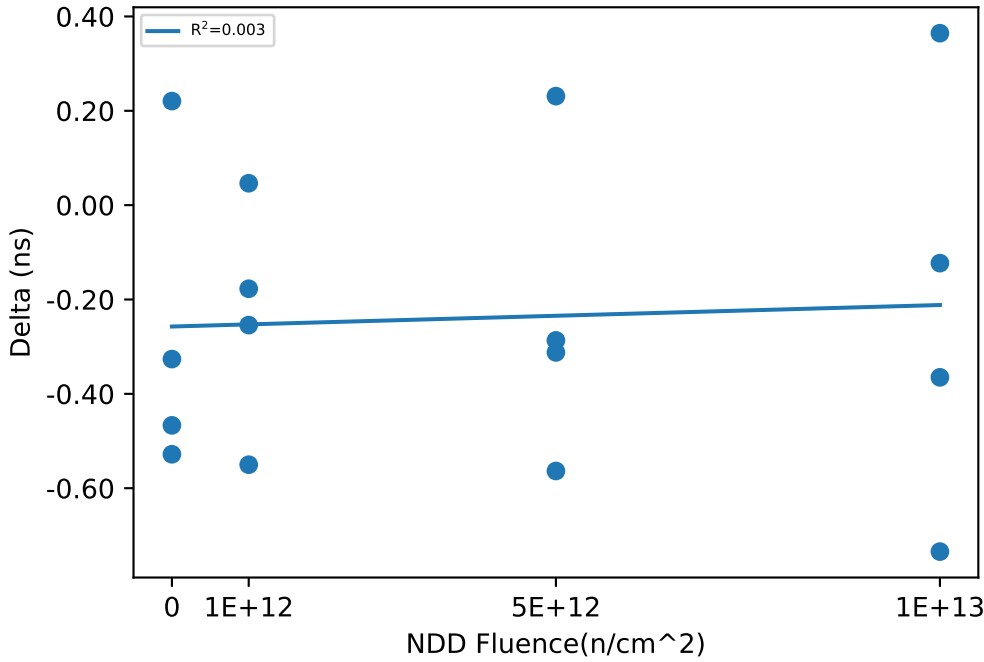
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	7.3648	6.8146	-0.5502
101	1e+12	NDD	6.9482	6.9946	0.0464
102	1e+12	NDD	6.9121	6.6578	-0.2543
103	1e+12	NDD	7.3318	7.1546	-0.1772
104	5e+12	NDD	7.3535	6.79	-0.5635
105	5e+12	NDD	7.3514	7.0392	-0.3122
106	5e+12	NDD	6.9341	6.6474	-0.2867
107	5e+12	NDD	6.9426	7.1737	0.2311
108	1e+13	NDD	6.9098	6.7869	-0.1229
109	1e+13	NDD	7.3458	6.9808	-0.365
110	1e+13	NDD	7.3834	6.649	-0.7344
111	1e+13	NDD	6.8909	7.2554	0.3645
732	0	CORRELATION	7.3601	6.8933	-0.4668
742	0	CORRELATION	7.3055	6.9792	-0.3263
879	0	CORRELATION	6.9026	7.1232	0.2206
880	0	CORRELATION	7.3048	6.7767	-0.5281

NDD vs Post - Pre Exposure Delta

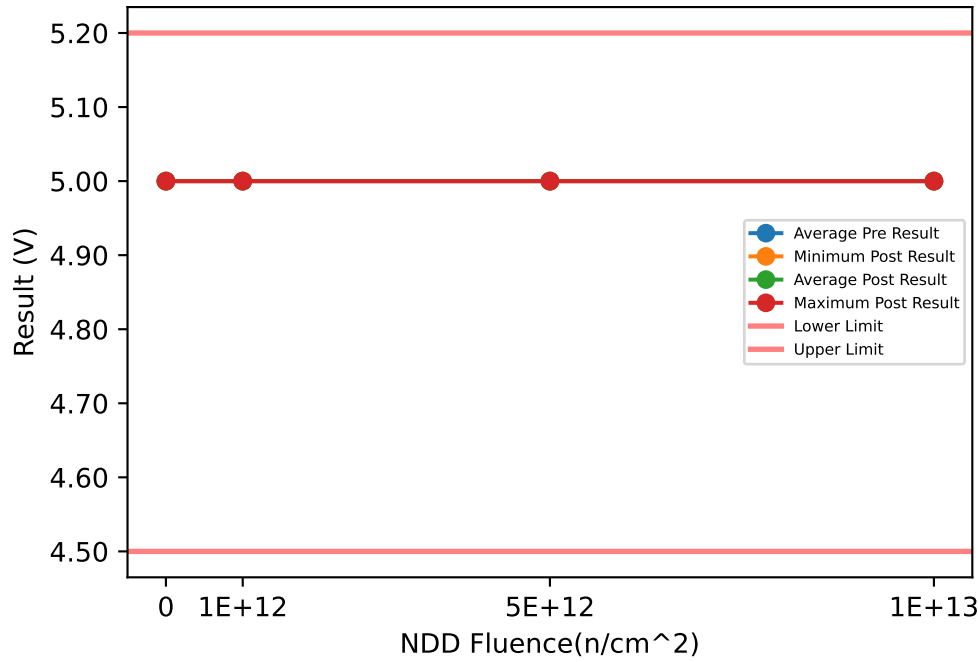


Test Statistics (ns)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.9026	7.2183	7.3601	0.21202	6.7767	6.9431	7.1232	0.14595	-0.5281	-0.27515	0.2206	0.34112
1e+12	6.9121	7.1392	7.3648	0.24224	6.6578	6.9054	7.1546	0.21572	-0.5502	-0.23382	0.0464	0.24647
5e+12	6.9341	7.1454	7.3535	0.23911	6.6474	6.9126	7.1737	0.23774	-0.5635	-0.23282	0.2311	0.33355
1e+13	6.8909	7.1325	7.3834	0.26858	6.649	6.918	7.2554	0.26289	-0.7344	-0.21445	0.3645	0.46064

Device Test: 24.111 LEVELS|VOH/SYNC1/12//511k/4011/@SYNC_OUT_HIGH_7V

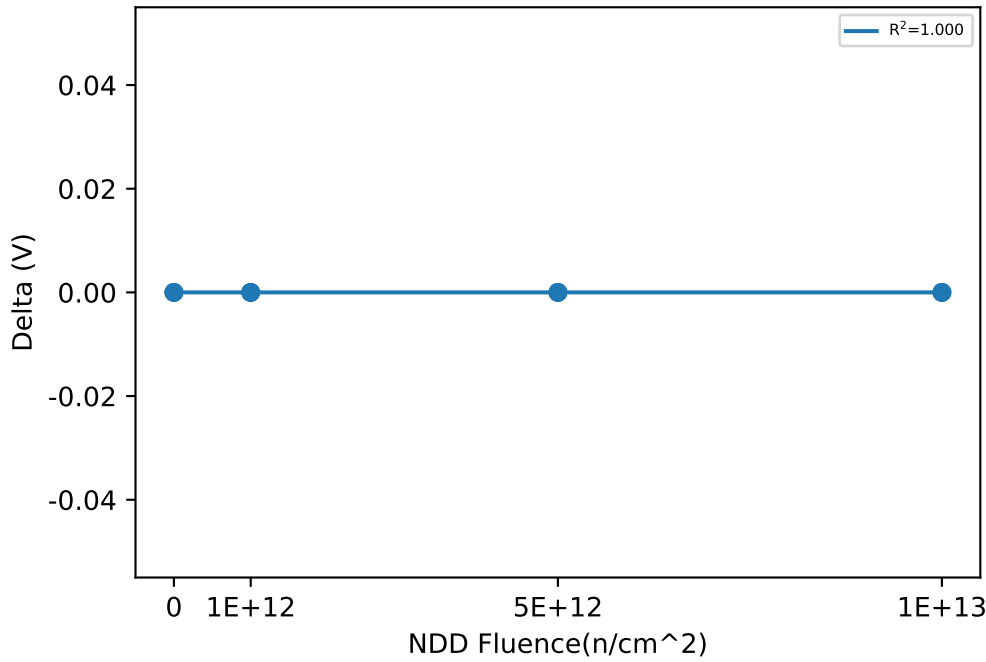
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5	5	0
101	1e+12	NDD	5	5	0
102	1e+12	NDD	5	5	0
103	1e+12	NDD	5	5	0
104	5e+12	NDD	5	5	0
105	5e+12	NDD	5	5	0
106	5e+12	NDD	5	5	0
107	5e+12	NDD	5	5	0
108	1e+13	NDD	5	5	0
109	1e+13	NDD	5	5	0
110	1e+13	NDD	5	5	0
111	1e+13	NDD	5	5	0
732	0	CORRELATION	5	5	0
742	0	CORRELATION	5	5	0
879	0	CORRELATION	5	5	0
880	0	CORRELATION	5	5	0

NDD vs Post - Pre Exposure Delta

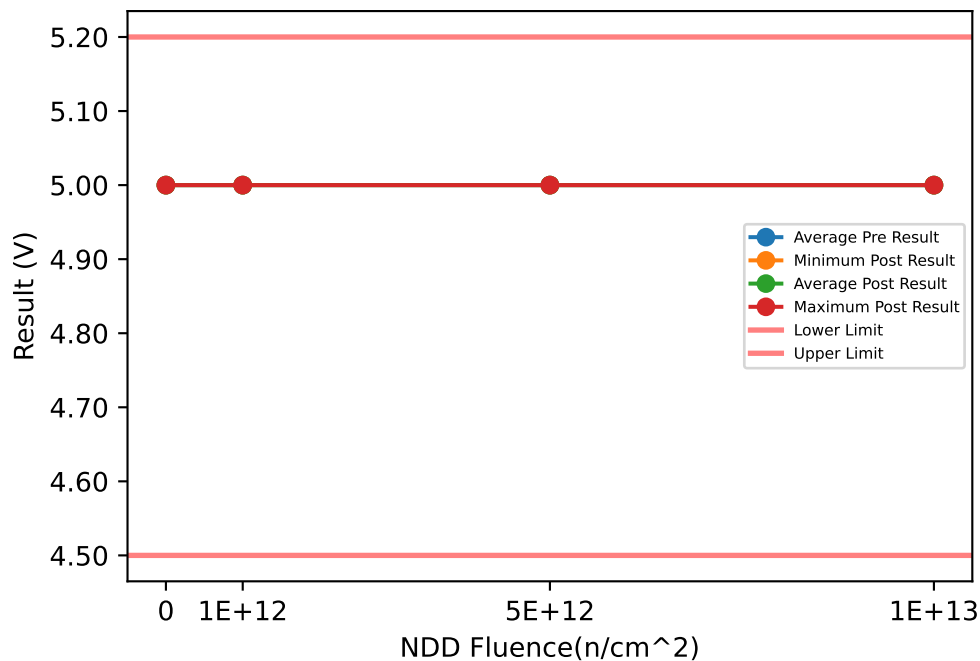


Test Statistics (V)

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	5	5	5	0	5	5	5	0	0	0	0	0
1e+12	5	5	5	0	5	5	5	0	0	0	0	0
5e+12	5	5	5	0	5	5	5	0	0	0	0	0
1e+13	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 24.112 LEVELS|VOH/SYNC2/12//511k//@SYNC_OUT_HIGH_7V

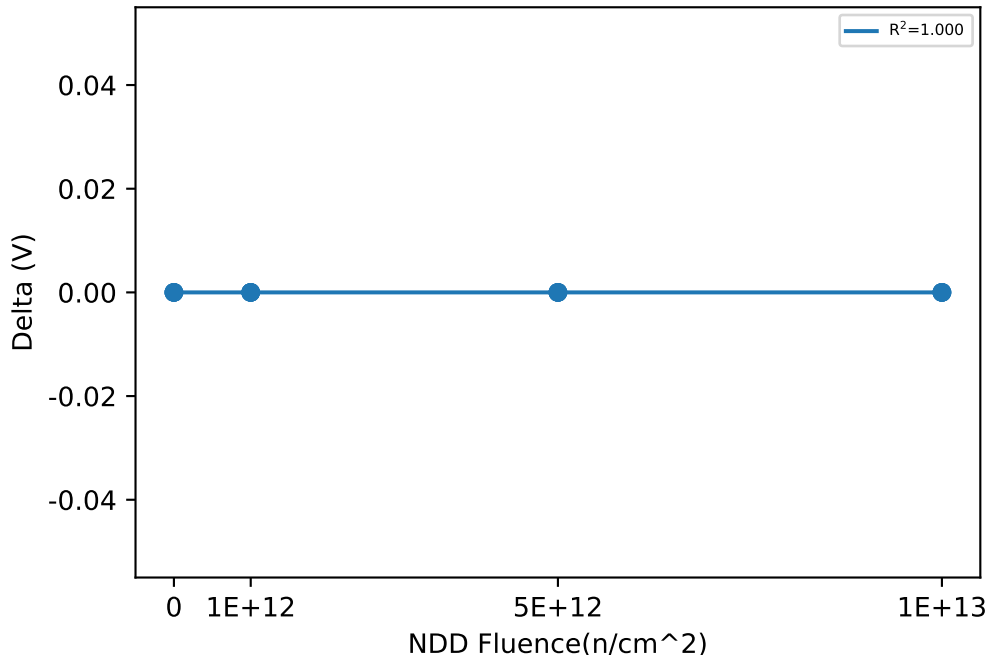
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5	5	0
101	1e+12	NDD	5	5	0
102	1e+12	NDD	5	5	0
103	1e+12	NDD	5	5	0
104	5e+12	NDD	5	5	0
105	5e+12	NDD	5	5	0
106	5e+12	NDD	5	5	0
107	5e+12	NDD	5	5	0
108	1e+13	NDD	5	5	0
109	1e+13	NDD	5	5	0
110	1e+13	NDD	5	5	0
111	1e+13	NDD	5	5	0
732	0	CORRELATION	5	5	0
742	0	CORRELATION	5	5	0
879	0	CORRELATION	5	5	0
880	0	CORRELATION	5	5	0

NDD vs Post - Pre Exposure Delta

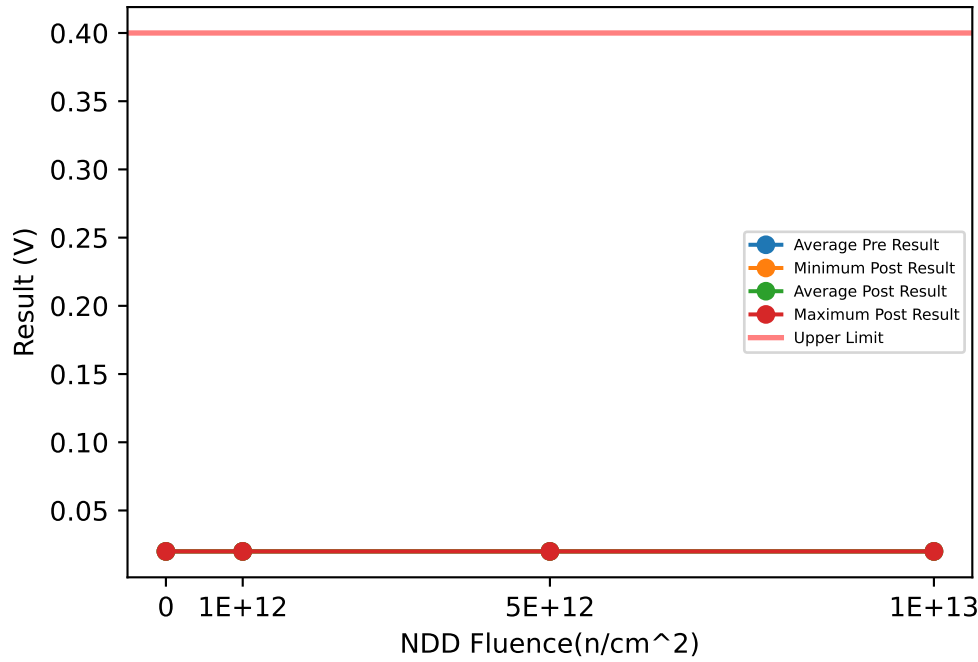


Test Statistics (V)

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	5	5	5	0	5	5	5	0	0	0	0	0
1e+12	5	5	5	0	5	5	5	0	0	0	0	0
5e+12	5	5	5	0	5	5	5	0	0	0	0	0
1e+13	5	5	5	0	5	5	5	0	0	0	0	0

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

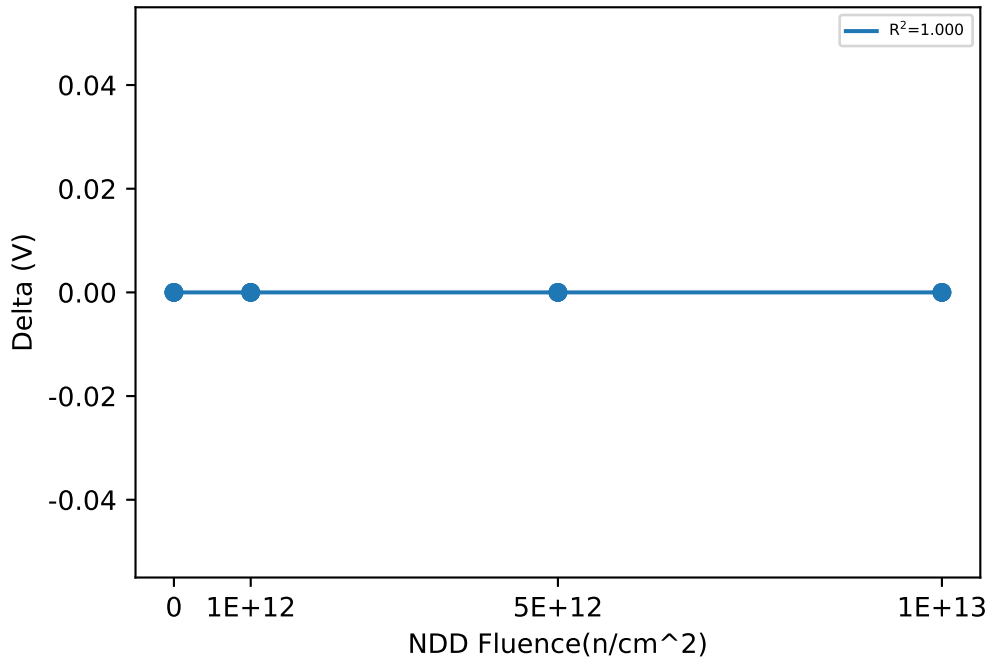
NDD vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.02	0.02	0
101	1e+12	NDD	0.02	0.02	0
102	1e+12	NDD	0.02	0.02	0
103	1e+12	NDD	0.02	0.02	0
104	5e+12	NDD	0.02	0.02	0
105	5e+12	NDD	0.02	0.02	0
106	5e+12	NDD	0.02	0.02	0
107	5e+12	NDD	0.02	0.02	0
108	1e+13	NDD	0.02	0.02	0
109	1e+13	NDD	0.02	0.02	0
110	1e+13	NDD	0.02	0.02	0
111	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

NDD vs Post - Pre Exposure Delta

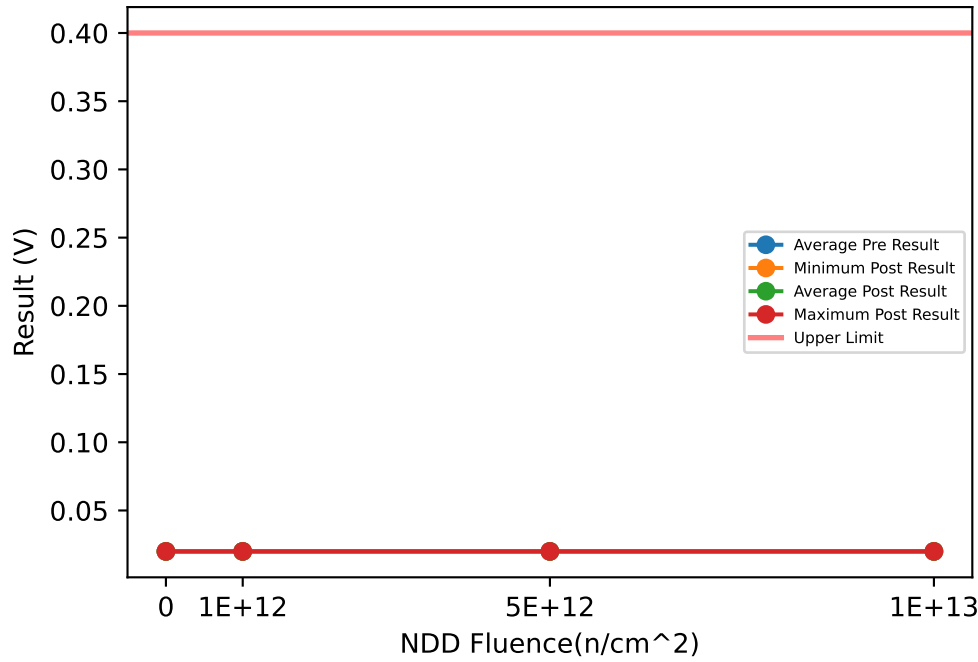


Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.114 LEVELS|VOL/SYNC2/12//511k//@SYNC_OUT_LOW

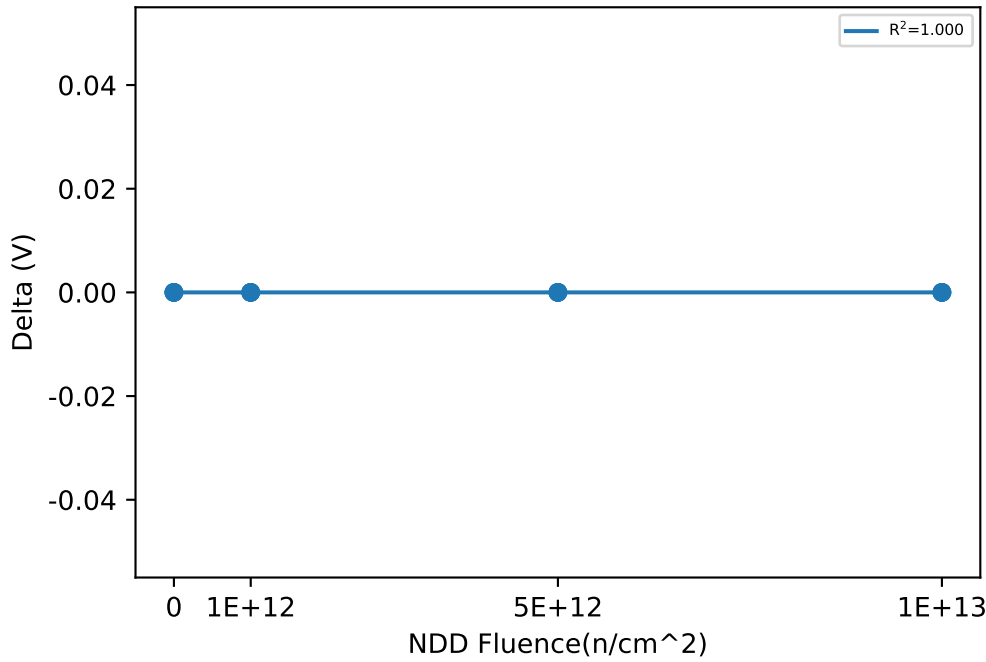
NDD vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.02	0.02	0
101	1e+12	NDD	0.02	0.02	0
102	1e+12	NDD	0.02	0.02	0
103	1e+12	NDD	0.02	0.02	0
104	5e+12	NDD	0.02	0.02	0
105	5e+12	NDD	0.02	0.02	0
106	5e+12	NDD	0.02	0.02	0
107	5e+12	NDD	0.02	0.02	0
108	1e+13	NDD	0.02	0.02	0
109	1e+13	NDD	0.02	0.02	0
110	1e+13	NDD	0.02	0.02	0
111	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

NDD vs Post - Pre Exposure Delta

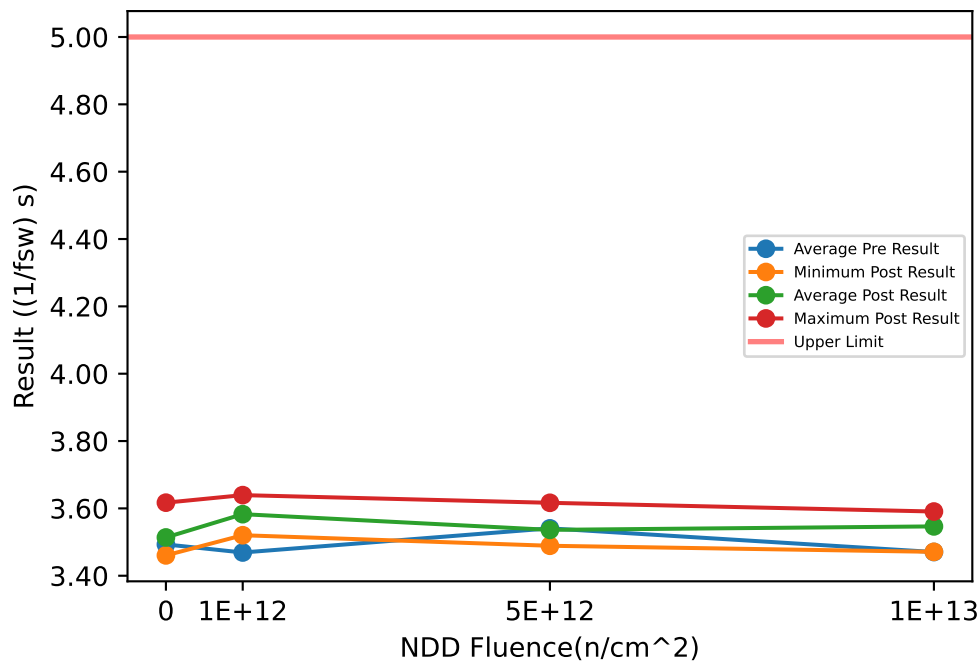


Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.12 TIMING|CLKDETECT/SYNC1/4.5//511k//@T_CLOCK_DET

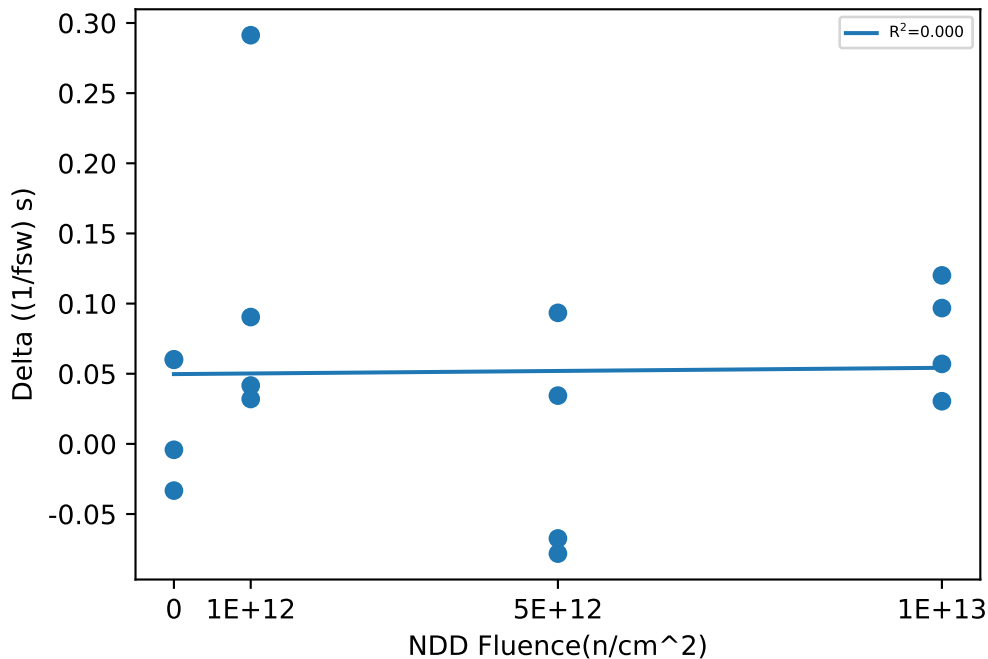
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.5357	3.6261	0.0904
101	1e+12	NDD	3.5135	3.5455	0.032
102	1e+12	NDD	3.3481	3.6394	0.2913
103	1e+12	NDD	3.4787	3.5203	0.0416
104	5e+12	NDD	3.599	3.5316	-0.0674
105	5e+12	NDD	3.5672	3.489	-0.0782
106	5e+12	NDD	3.5822	3.6166	0.0344
107	5e+12	NDD	3.4144	3.5078	0.0934
108	1e+13	NDD	3.3742	3.471	0.0968
109	1e+13	NDD	3.5377	3.5681	0.0304
110	1e+13	NDD	3.4362	3.5563	0.1201
111	1e+13	NDD	3.5337	3.5907	0.057
732	0	CORRELATION	3.5195	3.5153	-0.0042
742	0	CORRELATION	3.5571	3.617	0.0599
879	0	CORRELATION	3.4953	3.462	-0.0333
880	0	CORRELATION	3.4001	3.4604	0.0603

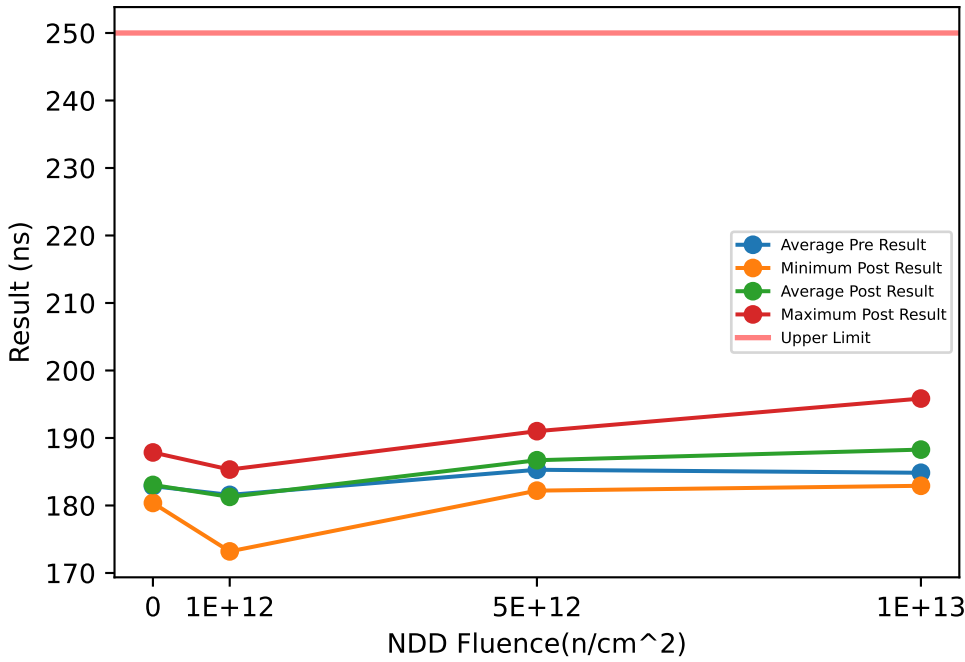
NDD vs Post - Pre Exposure Delta



Test Statistics ((1/fsw) 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	3.4001	3.493	3.5571	0.06695	3.4604	3.5137	3.617	0.073456	-0.0333	0.020675	0.0603	0.047049
1e+12	3.3481	3.469	3.5357	0.083945	3.5203	3.5828	3.6394	0.05881	0.032	0.11383	0.2913	0.12105
5e+12	3.4144	3.5407	3.599	0.085196	3.489	3.5362	3.6166	0.056331	-0.0782	-0.00445	0.0934	0.082635
1e+13	3.3742	3.4705	3.5377	0.079499	3.471	3.5465	3.5907	0.052334	0.0304	0.076075	0.1201	0.040074

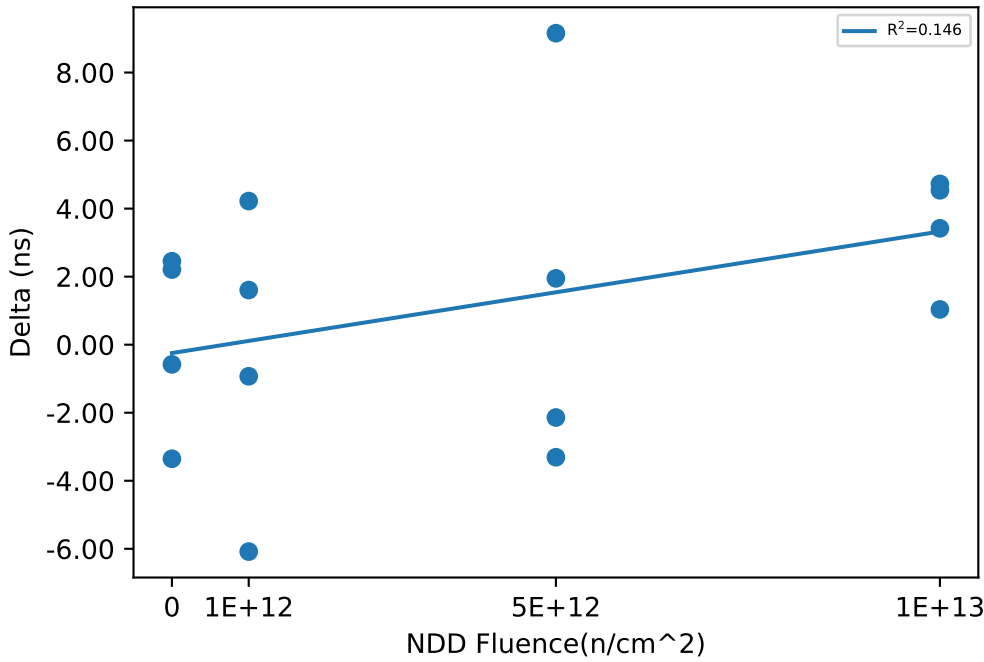
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	183.72	185.32	1.6059
101	1e+12	NDD	179.28	173.2	-6.0824
102	1e+12	NDD	183.01	182.08	-0.929
103	1e+12	NDD	180.28	184.51	4.2224
104	5e+12	NDD	181.85	191.01	9.1565
105	5e+12	NDD	185.51	182.2	-3.3083
106	5e+12	NDD	188.35	190.3	1.9498
107	5e+12	NDD	185.45	183.31	-2.1412
108	1e+13	NDD	191.12	195.84	4.7264
109	1e+13	NDD	179.5	182.92	3.4202
110	1e+13	NDD	183.49	188.03	4.5378
111	1e+13	NDD	185.29	186.33	1.0365
732	0	CORRELATION	185.65	187.86	2.2088
742	0	CORRELATION	180.95	180.38	-0.5785
879	0	CORRELATION	184.91	181.56	-3.3532
880	0	CORRELATION	179.94	182.39	2.4533

NDD vs Post - Pre Exposure Delta

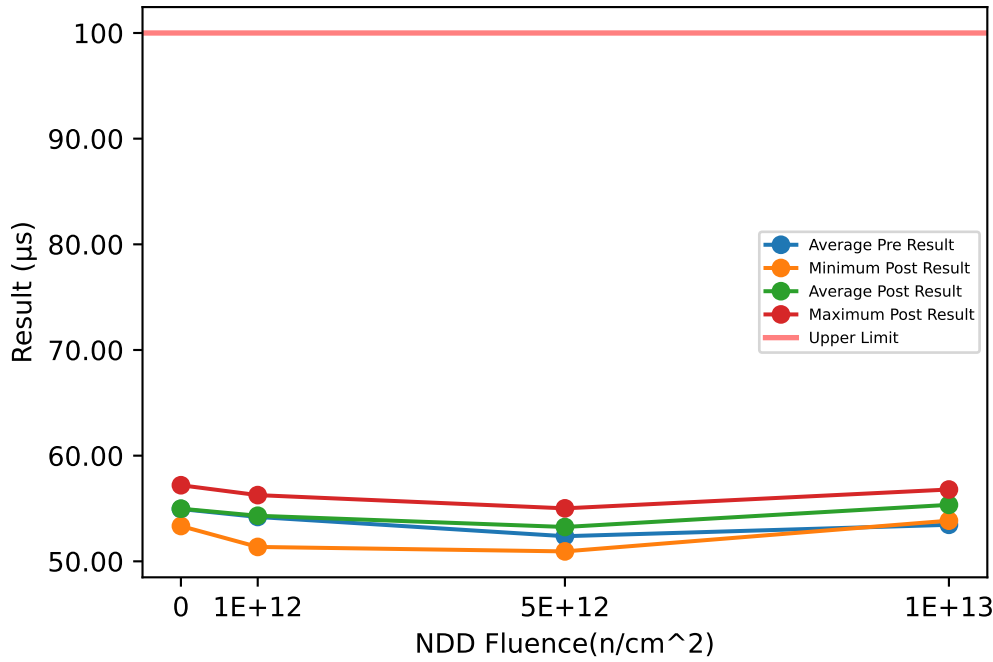


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	179.94	182.86	185.65	2.8383	180.38	183.04	187.86	3.3131	-3.3532	0.1826	2.4533	2.729
1e+12	179.28	181.57	183.72	2.1262	173.2	181.28	185.32	5.559	-6.0824	-0.29577	4.2224	4.3938
5e+12	181.85	185.29	188.35	2.6611	182.2	186.7	191.01	4.5921	-3.3083	1.4142	9.1565	5.6324
1e+13	179.5	184.85	191.12	4.8297	182.92	188.28	195.84	5.4727	1.0365	3.4302	4.7264	1.6967

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

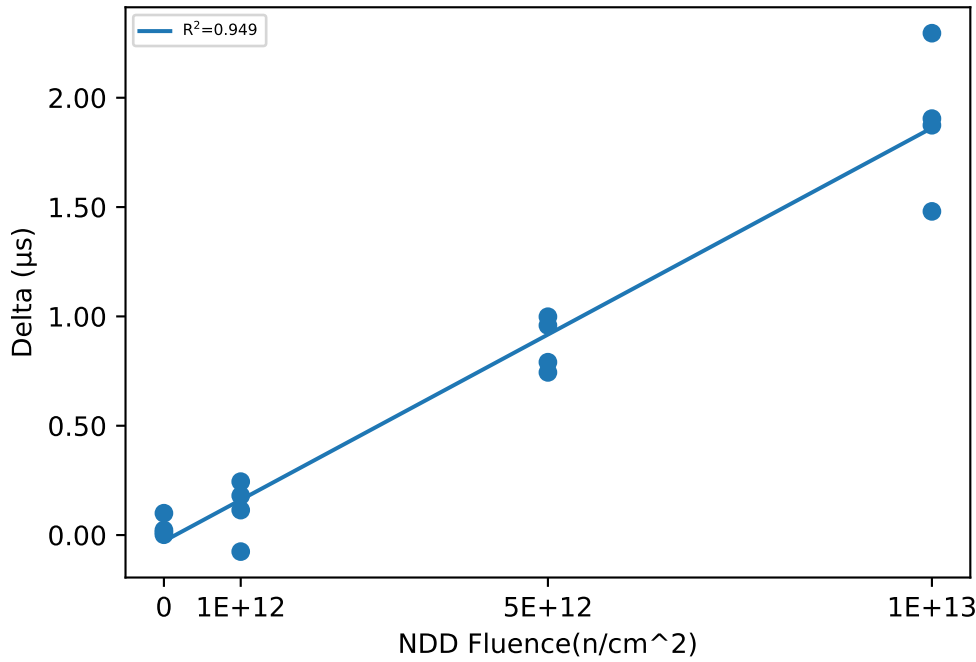
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	53.449	53.693	0.2444
101	1e+12	NDD	51.438	51.362	-0.0756
102	1e+12	NDD	56.086	56.267	0.1803
103	1e+12	NDD	55.818	55.932	0.1141
104	5e+12	NDD	51.747	52.746	0.9986
105	5e+12	NDD	54.27	55.014	0.7439
106	5e+12	NDD	53.343	54.301	0.9587
107	5e+12	NDD	50.149	50.94	0.7906
108	1e+13	NDD	52.455	54.75	2.2952
109	1e+13	NDD	52.367	53.847	1.4803
110	1e+13	NDD	54.923	56.797	1.8742
111	1e+13	NDD	54.083	55.987	1.9046
732	0	CORRELATION	57.189	57.201	0.0123
742	0	CORRELATION	54.965	55.065	0.1
879	0	CORRELATION	53.319	53.342	0.0231
880	0	CORRELATION	54.327	54.328	0.0015

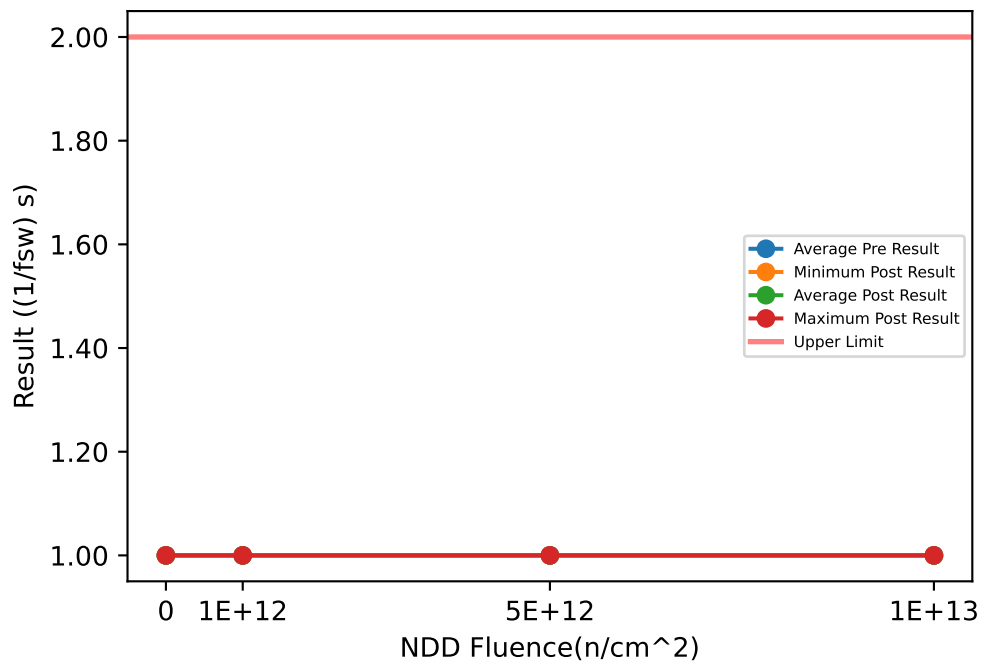
NDD vs Post - Pre Exposure Delta



Test Statistics (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	53.319	54.95	57.189	1.6393	53.342	54.984	57.201	1.6379	0.0015	0.034225	0.1	0.044728
1e+12	51.438	54.198	56.086	2.1886	51.362	54.314	56.267	2.2752	-0.0756	0.1158	0.2444	0.13825
5e+12	50.149	52.377	54.27	1.8143	50.94	53.25	55.014	1.808	0.7439	0.87295	0.9986	0.1246
1e+13	52.367	53.457	54.923	1.2561	53.847	55.345	56.797	1.3063	1.4803	1.8886	2.2952	0.33291

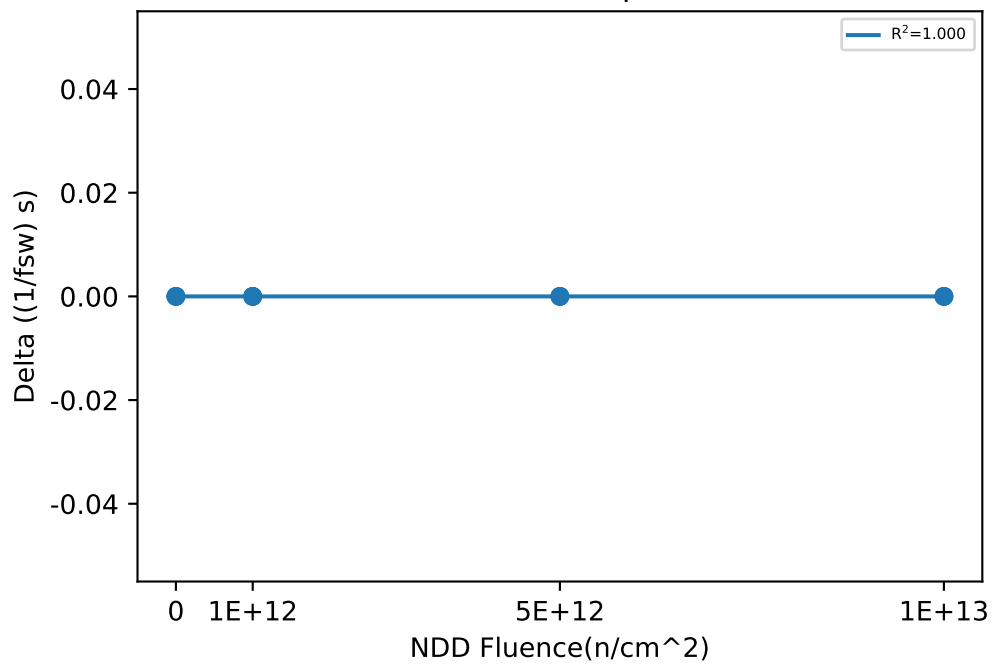
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1	1	0
101	1e+12	NDD	1	1	0
102	1e+12	NDD	1	1	0
103	1e+12	NDD	1	1	0
104	5e+12	NDD	1	1	0
105	5e+12	NDD	1	1	0
106	5e+12	NDD	1	1	0
107	5e+12	NDD	1	1	0
108	1e+13	NDD	1	1	0
109	1e+13	NDD	1	1	0
110	1e+13	NDD	1	1	0
111	1e+13	NDD	1	1	0
732	0	CORRELATION	1	1	0
742	0	CORRELATION	1	1	0
879	0	CORRELATION	1	1	0
880	0	CORRELATION	1	1	0

NDD vs Post - Pre Exposure Delta

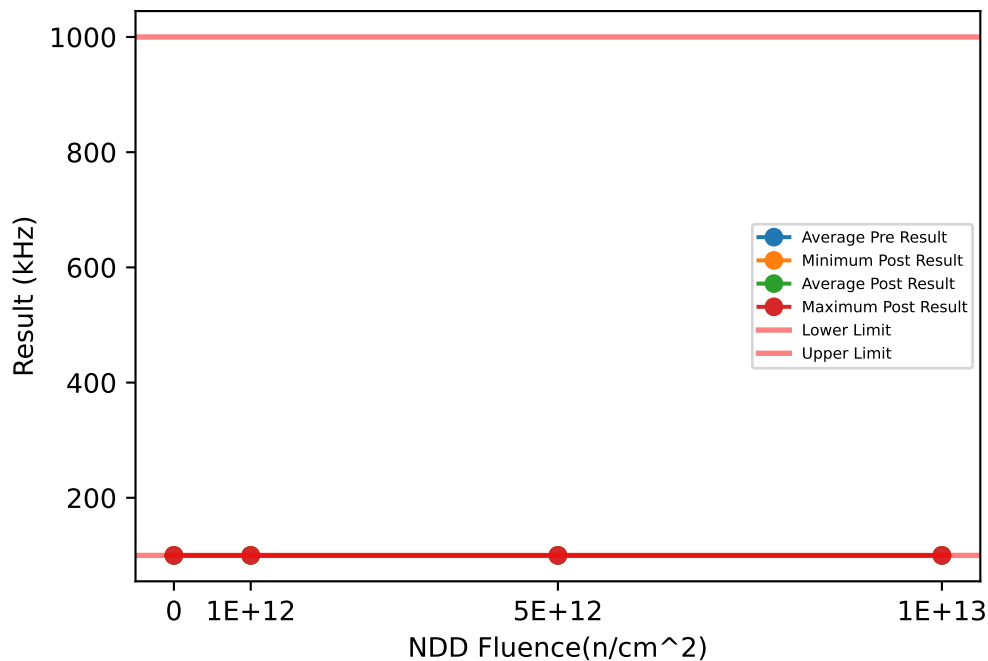


Test Statistics ((1/fsw) s)

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	1	1	0	1	1	1	0	0	0	0	0
1e+12	1	1	1	0	1	1	1	0	0	0	0	0
5e+12	1	1	1	0	1	1	1	0	0	0	0	0
1e+13	1	1	1	0	1	1	1	0	0	0	0	0

Device Test: 24.133 FREQ|100kHz/SYNC1/14//OPEN//@SYNC_FREQ_RANGE

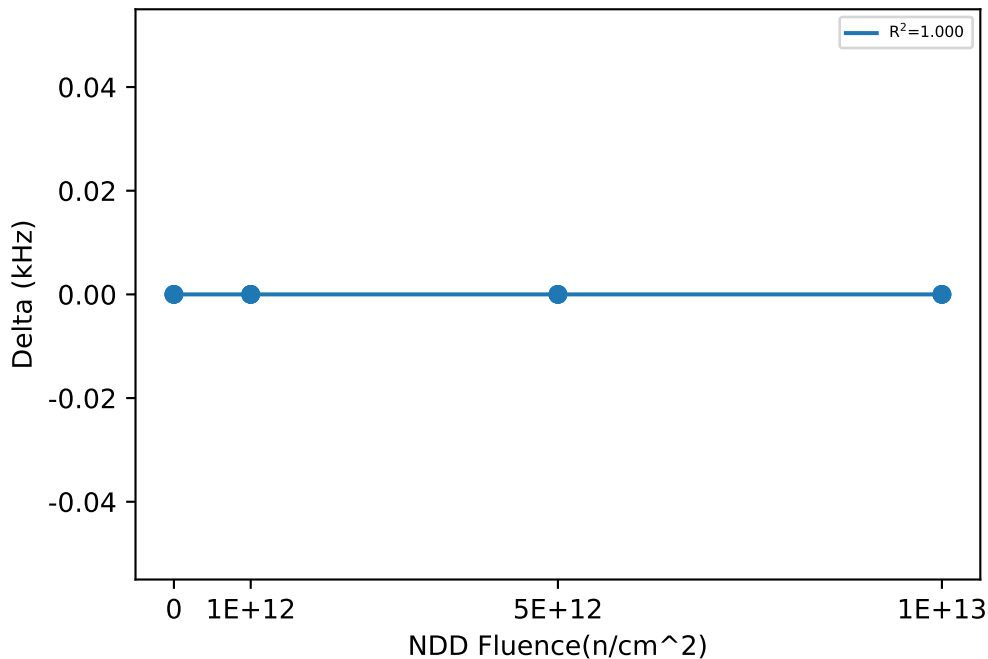
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	100	100	0
101	1e+12	NDD	100	100	0
102	1e+12	NDD	100	100	0
103	1e+12	NDD	100	100	0
104	5e+12	NDD	100	100	0
105	5e+12	NDD	100	100	0
106	5e+12	NDD	100	100	0
107	5e+12	NDD	100	100	0
108	1e+13	NDD	100	100	0
109	1e+13	NDD	100	100	0
110	1e+13	NDD	100	100	0
111	1e+13	NDD	100	100	0
732	0	CORRELATION	100	100	0
742	0	CORRELATION	100	100	0
879	0	CORRELATION	100	100	0
880	0	CORRELATION	100	100	0

NDD vs Post - Pre Exposure Delta

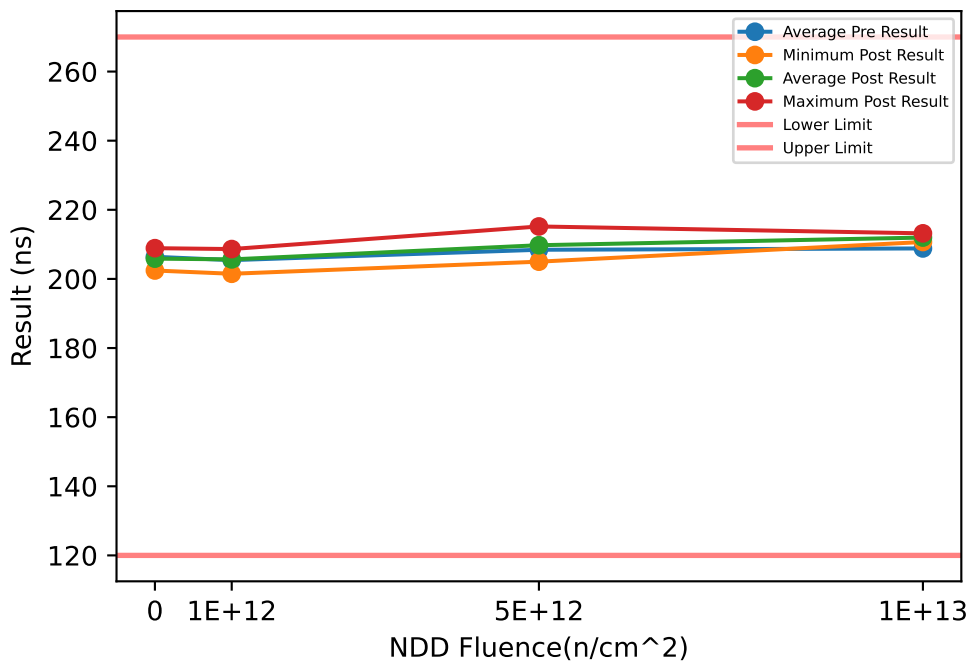


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
1e+12	100	100	100	0	100	100	100	0	0	0	0	0
5e+12	100	100	100	0	100	100	100	0	0	0	0	0
1e+13	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 24.134 TIMING|DELAY/SYNC1/14//OPEN/4011/@SYNC1_SW_DELAY

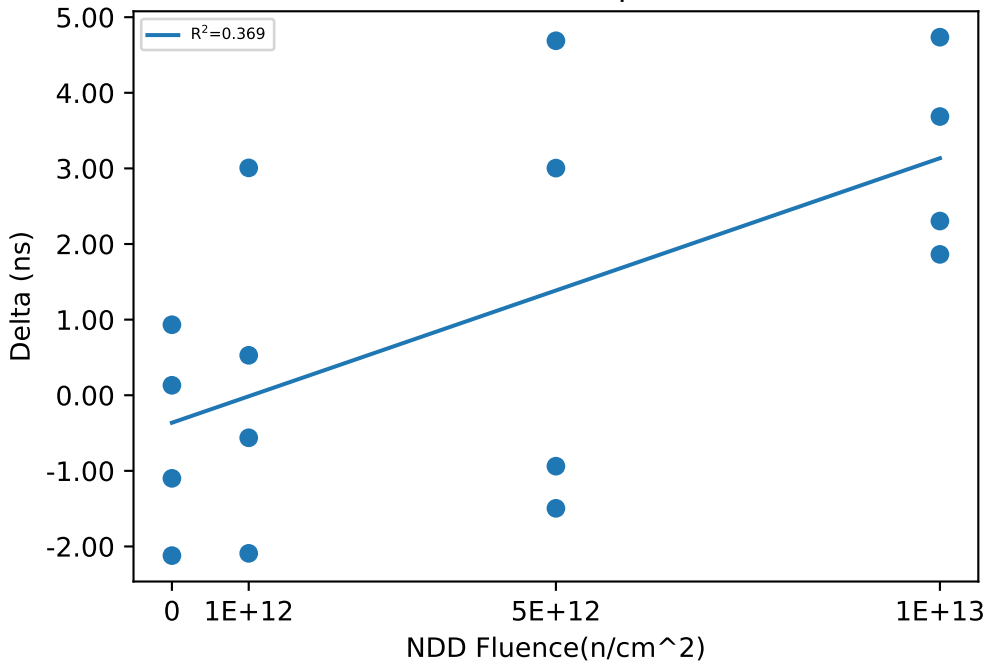
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	206.79	206.23	-0.5627
101	1e+12	NDD	205.63	208.64	3.0069
102	1e+12	NDD	200.96	201.49	0.5283
103	1e+12	NDD	208.34	206.25	-2.0911
104	5e+12	NDD	209.27	208.34	-0.9383
105	5e+12	NDD	210.49	215.18	4.6883
106	5e+12	NDD	211.99	210.49	-1.4956
107	5e+12	NDD	201.99	204.99	3.004
108	1e+13	NDD	205.95	210.68	4.7354
109	1e+13	NDD	208.36	212.05	3.6862
110	1e+13	NDD	209.65	211.96	2.3039
111	1e+13	NDD	211.33	213.19	1.8629
732	0	CORRELATION	202.3	202.44	0.1316
742	0	CORRELATION	207.96	208.89	0.9323
879	0	CORRELATION	206.09	203.97	-2.1209
880	0	CORRELATION	209.27	208.17	-1.0993

NDD vs Post - Pre Exposure Delta

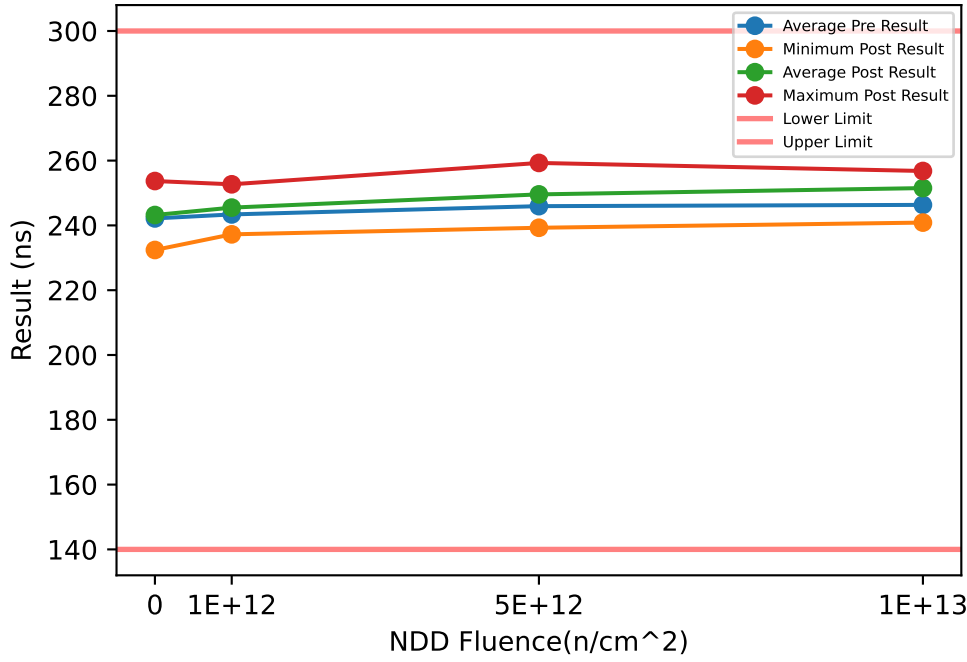


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	202.3	206.41	209.27	3.0311	202.44	205.87	208.89	3.1549	-2.1209	-0.53907	0.9323	1.3455
1e+12	200.96	205.43	208.34	3.1788	201.49	205.65	208.64	2.9964	-2.0911	0.22035	3.0069	2.146
5e+12	201.99	208.44	211.99	4.4404	204.99	209.75	215.18	4.27	-1.4956	1.3146	4.6883	3.0116
1e+13	205.95	208.82	211.33	2.268	210.68	211.97	213.19	1.0244	1.8629	3.1471	4.7354	1.3132

Device Test: 24.135 TIMING|DELAY/SYNC1/14//OPEN/4011/@SYNC1_SW_DELAY_INV

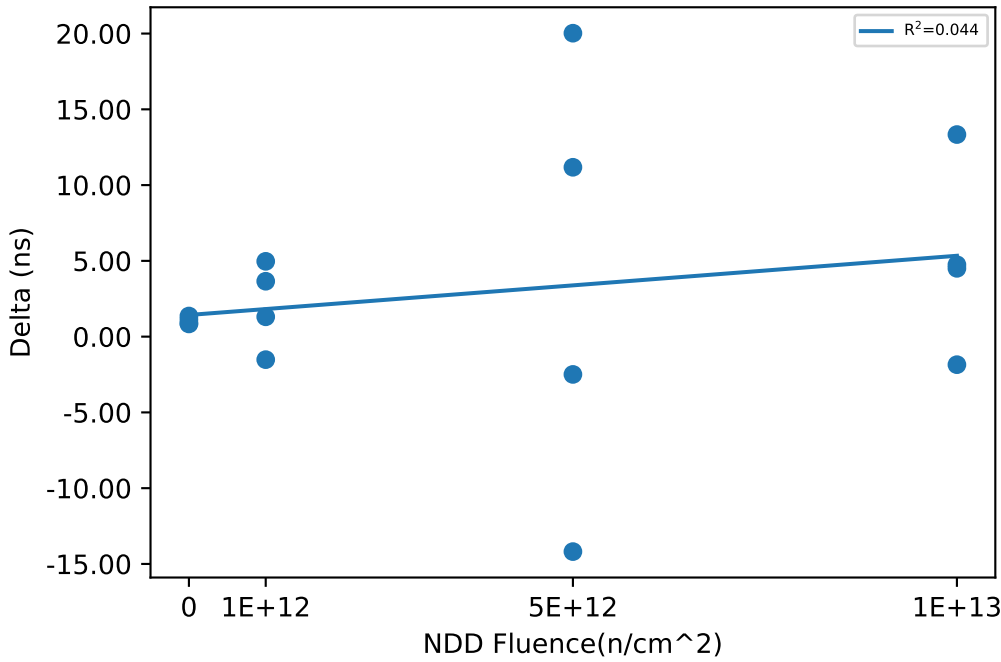
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	235.93	237.24	1.309
101	1e+12	NDD	247.71	252.68	4.9696
102	1e+12	NDD	238.19	241.84	3.6554
103	1e+12	NDD	251.71	250.2	-1.518
104	5e+12	NDD	253.46	239.27	-14.185
105	5e+12	NDD	239.25	259.28	20.024
106	5e+12	NDD	253.41	250.91	-2.4931
107	5e+12	NDD	237.65	248.83	11.176
108	1e+13	NDD	242.71	240.86	-1.8499
109	1e+13	NDD	251.81	256.55	4.7453
110	1e+13	NDD	238.51	251.85	13.336
111	1e+13	NDD	252.29	256.79	4.507
732	0	CORRELATION	231.53	232.41	0.8787
742	0	CORRELATION	252.33	253.69	1.3603
879	0	CORRELATION	247.06	247.9	0.8388
880	0	CORRELATION	237.69	238.81	1.1242

NDD vs Post - Pre Exposure Delta

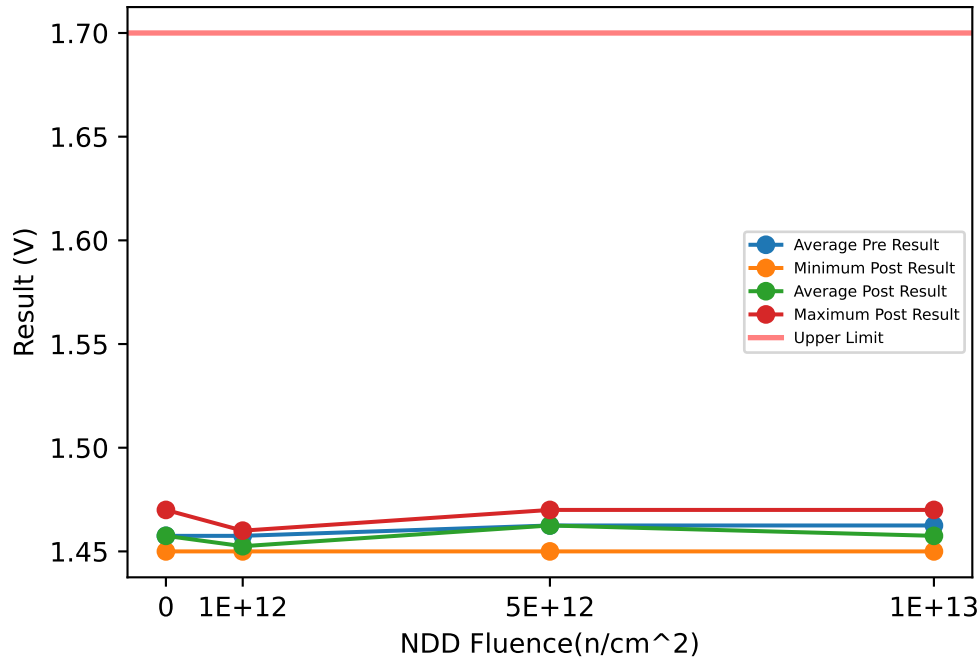


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	231.53	242.15	252.33	9.3173	232.41	243.2	253.69	9.4487	0.8388	1.0505	1.3603	0.24203
1e+12	235.93	243.39	251.71	7.5434	237.24	245.49	252.68	7.1944	-1.518	2.104	4.9696	2.8501
5e+12	237.65	245.94	253.46	8.6732	239.27	249.57	259.28	8.2194	-14.185	3.6305	20.024	15.062
1e+13	238.51	246.33	252.29	6.8229	240.86	251.51	256.79	7.4559	-1.8499	5.1846	13.336	6.2338

Device Test: 24.136 THRESHOLD|RISE/SYNC1/14//OPEN//@SYNC1_VIH

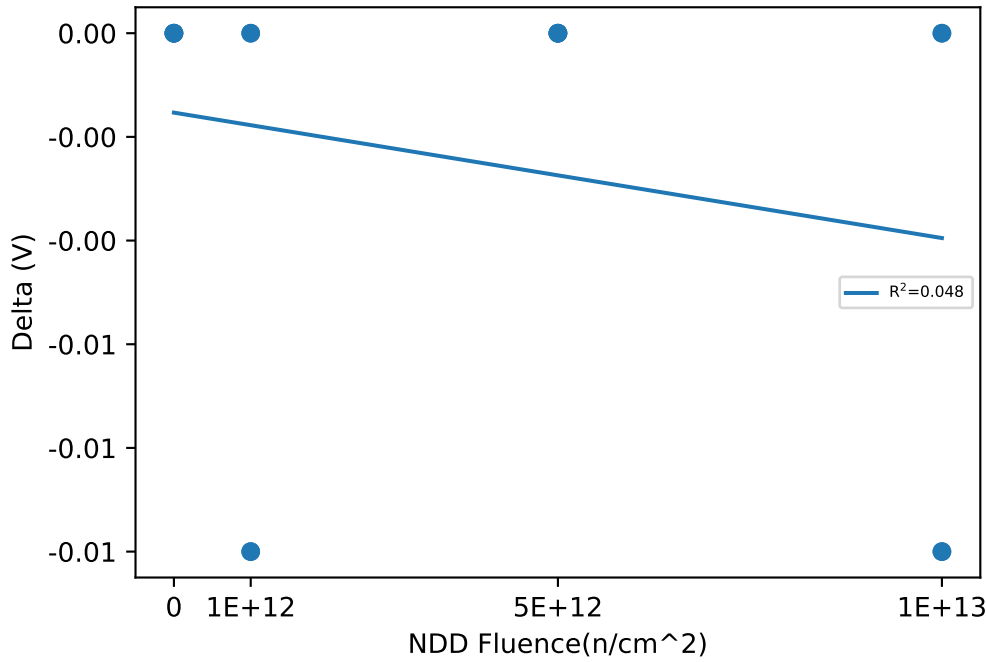
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.46	1.45	-0.01
101	1e+12	NDD	1.45	1.45	0
102	1e+12	NDD	1.45	1.45	0
103	1e+12	NDD	1.47	1.46	-0.01
104	5e+12	NDD	1.47	1.47	0
105	5e+12	NDD	1.47	1.47	0
106	5e+12	NDD	1.45	1.45	0
107	5e+12	NDD	1.46	1.46	0
108	1e+13	NDD	1.46	1.46	0
109	1e+13	NDD	1.46	1.45	-0.01
110	1e+13	NDD	1.46	1.45	-0.01
111	1e+13	NDD	1.47	1.47	0
732	0	CORRELATION	1.45	1.45	0
742	0	CORRELATION	1.45	1.45	0
879	0	CORRELATION	1.47	1.47	0
880	0	CORRELATION	1.46	1.46	0

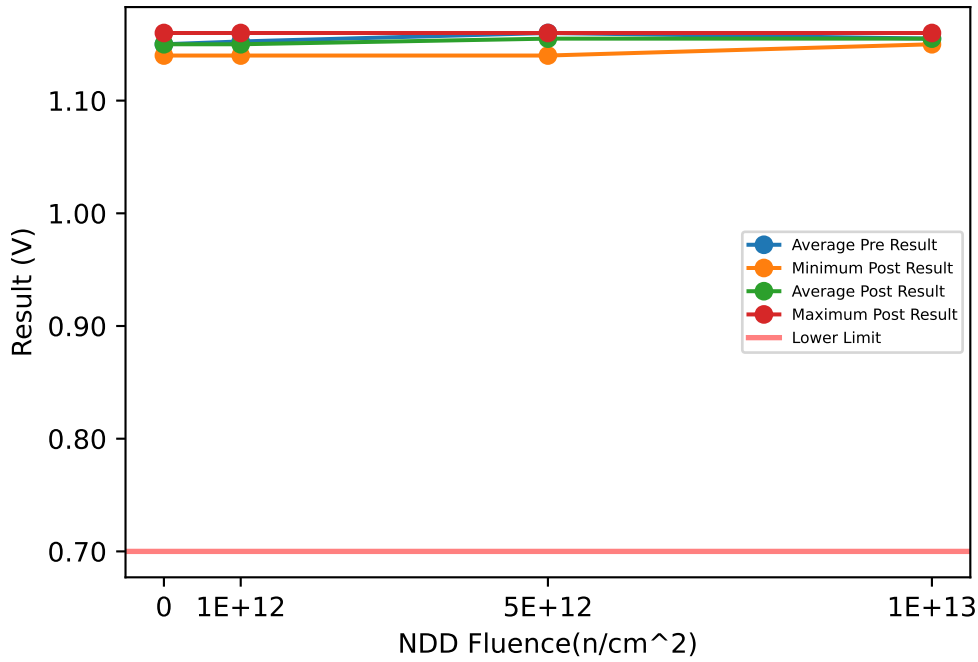
NDD vs Post - Pre Exposure Delta



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	1.45	1.4575	1.47	0.0095743	1.45	1.4575	1.47	0.0095743	0	0	0	0
1e+12	1.45	1.4575	1.47	0.0095743	1.45	1.4525	1.46	0.005	-0.01	-0.005	0	0.0057735
5e+12	1.45	1.4625	1.47	0.0095743	1.45	1.4625	1.47	0.0095743	0	0	0	0
1e+13	1.46	1.4625	1.47	0.005	1.45	1.4575	1.47	0.0095743	-0.01	-0.005	0	0.0057735

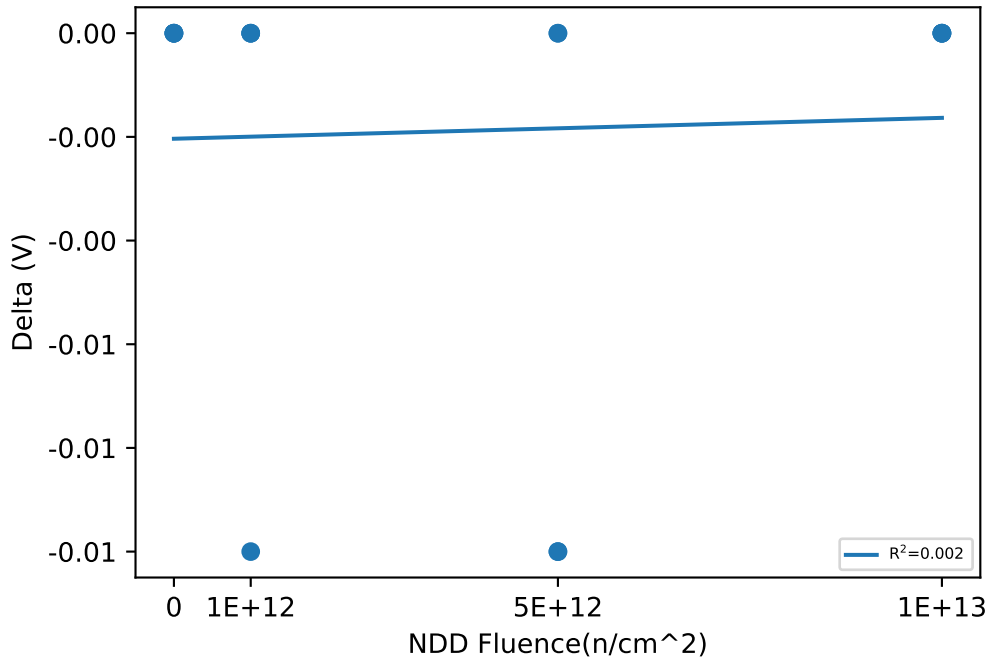
NDD vs Result Stats



Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.15	1.15	0
101	1e+12	NDD	1.15	1.15	0
102	1e+12	NDD	1.14	1.14	0
103	1e+12	NDD	1.17	1.16	-0.01
104	5e+12	NDD	1.16	1.16	0
105	5e+12	NDD	1.17	1.16	-0.01
106	5e+12	NDD	1.15	1.14	-0.01
107	5e+12	NDD	1.16	1.16	0
108	1e+13	NDD	1.16	1.16	0
109	1e+13	NDD	1.15	1.15	0
110	1e+13	NDD	1.15	1.15	0
111	1e+13	NDD	1.16	1.16	0
732	0	CORRELATION	1.14	1.14	0
742	0	CORRELATION	1.15	1.15	0
879	0	CORRELATION	1.16	1.16	0
880	0	CORRELATION	1.15	1.15	0

NDD vs Post - Pre Exposure Delta

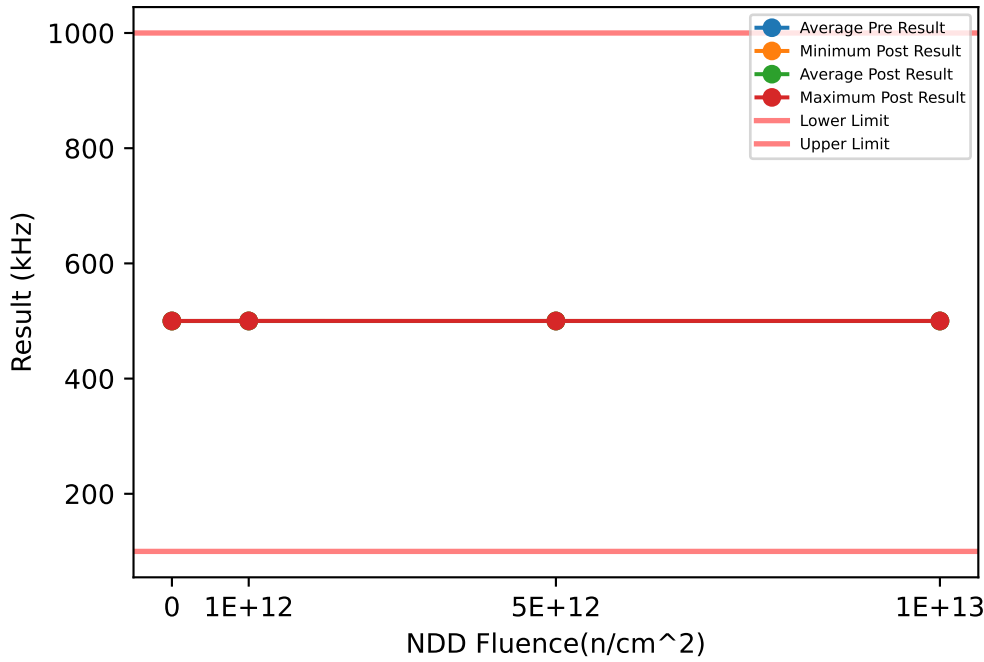


Test Statistics (V)

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	1.14	1.15	1.16	0.008165	1.14	1.15	1.16	0.008165	0	0	0	0
1e+12	1.14	1.1525	1.17	0.012583	1.14	1.15	1.16	0.008165	-0.01	-0.0025	0	0.005
5e+12	1.15	1.16	1.17	0.008165	1.14	1.155	1.16	0.01	-0.01	-0.005	0	0.0057735
1e+13	1.15	1.155	1.16	0.0057735	1.15	1.155	1.16	0.0057735	0	0	0	0

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

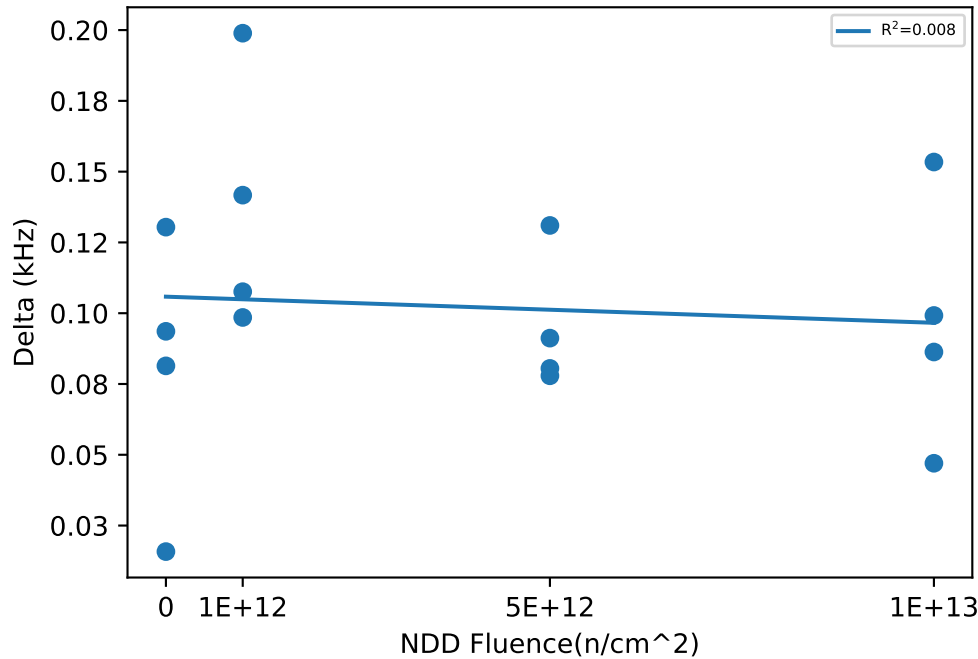
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	499.93	500.13	0.1989
101	1e+12	NDD	499.94	500.08	0.1417
102	1e+12	NDD	499.95	500.05	0.0985
103	1e+12	NDD	499.95	500.06	0.1076
104	5e+12	NDD	499.95	500.02	0.0779
105	5e+12	NDD	499.94	500.07	0.131
106	5e+12	NDD	499.95	500.04	0.0912
107	5e+12	NDD	499.98	500.06	0.0805
108	1e+13	NDD	499.98	500.03	0.047
109	1e+13	NDD	499.93	500.08	0.1534
110	1e+13	NDD	499.94	500.04	0.0992
111	1e+13	NDD	499.95	500.04	0.0863
732	0	CORRELATION	499.93	500.03	0.0936
742	0	CORRELATION	499.95	500.08	0.1304
879	0	CORRELATION	499.97	500.05	0.0814
880	0	CORRELATION	499.92	499.93	0.0158

NDD vs Post - Pre Exposure Delta

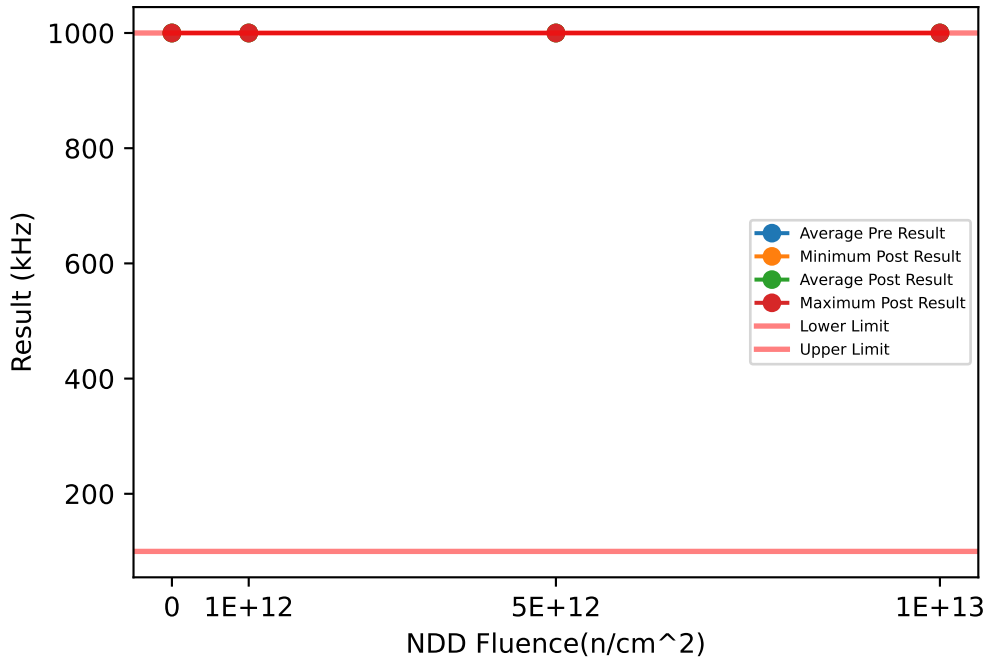


Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.92	499.94	499.97	0.021673	499.93	500.02	500.08	0.063564	0.0158	0.0803	0.1304	0.047779
1e+12	499.93	499.94	499.95	0.011001	500.05	500.08	500.13	0.034618	0.0985	0.13667	0.1989	0.04546
5e+12	499.94	499.95	499.98	0.014925	500.02	500.05	500.07	0.021726	0.0779	0.09515	0.131	0.024583
1e+13	499.93	499.95	499.98	0.020486	500.03	500.05	500.08	0.02569	0.047	0.096475	0.1534	0.043967

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

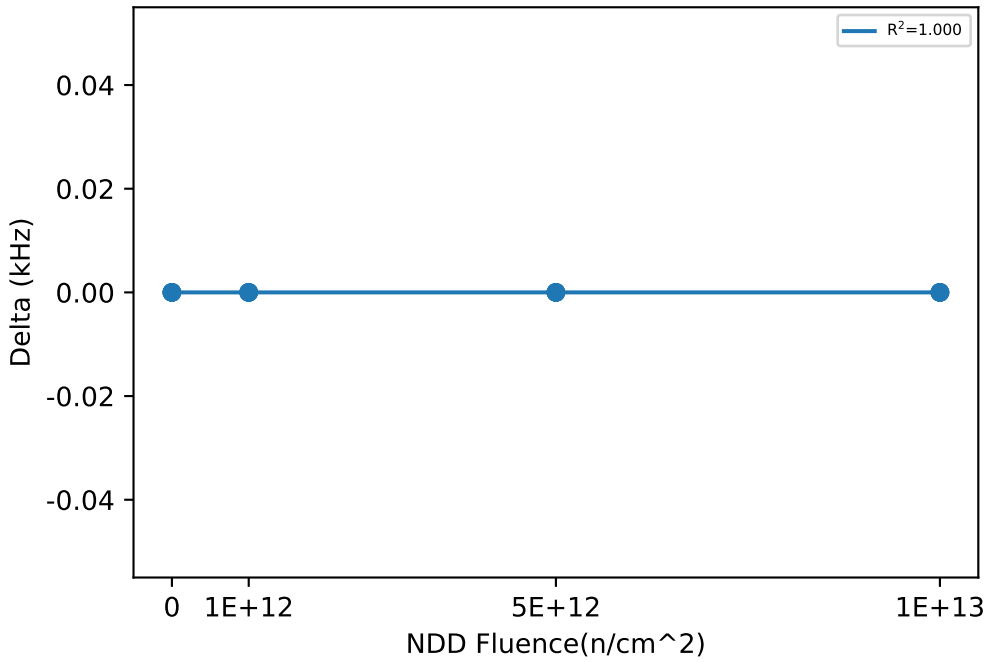
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1000	1000	0
101	1e+12	NDD	1000	1000	0
102	1e+12	NDD	1000	1000	0
103	1e+12	NDD	1000	1000	0
104	5e+12	NDD	1000	1000	0
105	5e+12	NDD	1000	1000	0
106	5e+12	NDD	1000	1000	0
107	5e+12	NDD	1000	1000	0
108	1e+13	NDD	1000	1000	0
109	1e+13	NDD	1000	1000	0
110	1e+13	NDD	1000	1000	0
111	1e+13	NDD	1000	1000	0
732	0	CORRELATION	1000	1000	0
742	0	CORRELATION	1000	1000	0
879	0	CORRELATION	1000	1000	0
880	0	CORRELATION	1000	1000	0

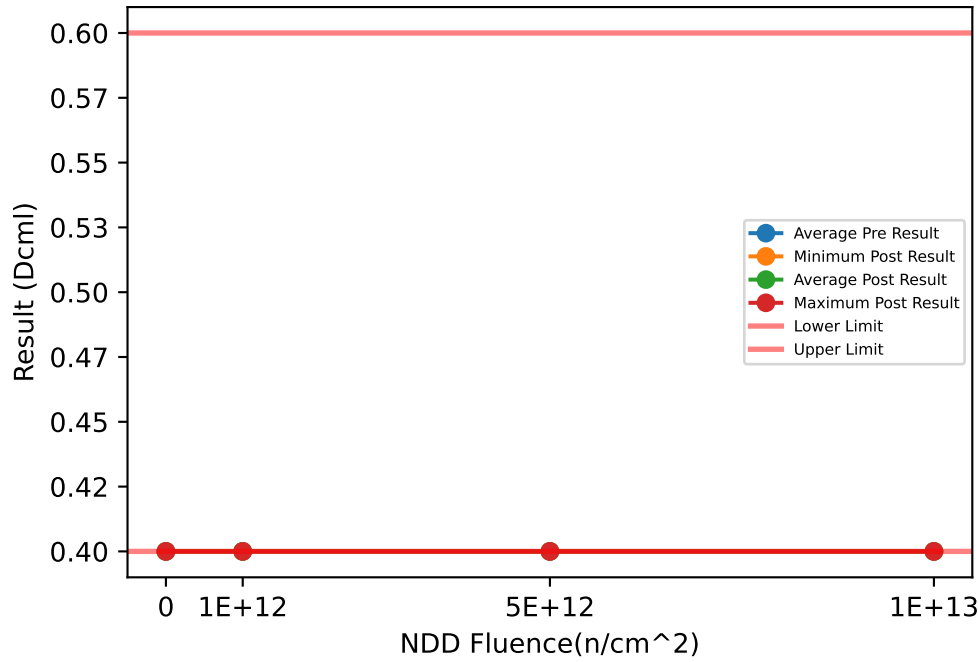
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
5e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+13	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

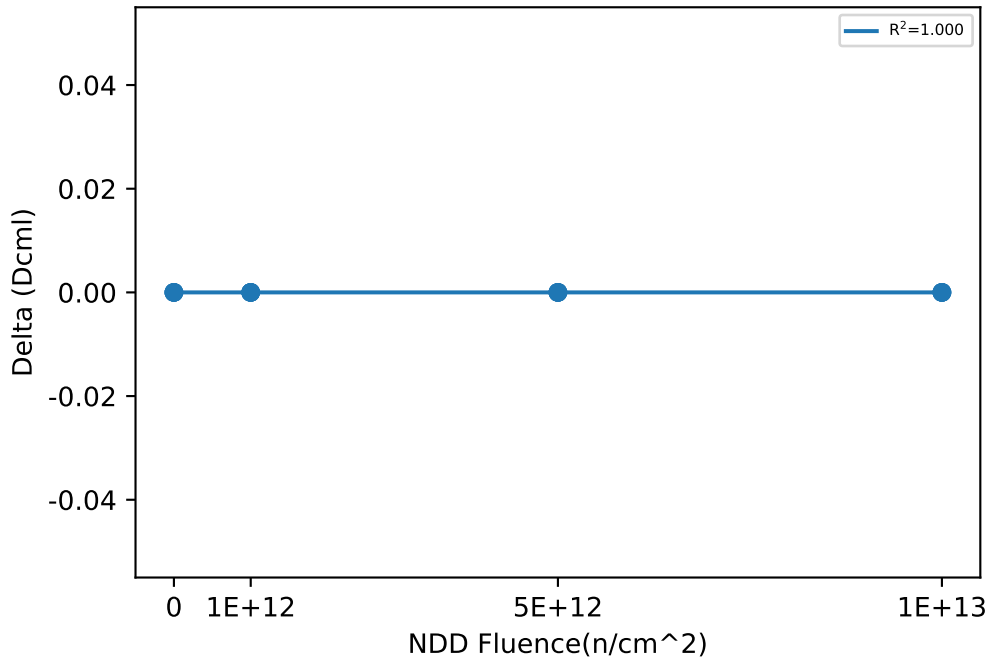
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4	0.4	0
101	1e+12	NDD	0.4	0.4	0
102	1e+12	NDD	0.4	0.4	0
103	1e+12	NDD	0.4	0.4	0
104	5e+12	NDD	0.4	0.4	0
105	5e+12	NDD	0.4	0.4	0
106	5e+12	NDD	0.4	0.4	0
107	5e+12	NDD	0.4	0.4	0
108	1e+13	NDD	0.4	0.4	0
109	1e+13	NDD	0.4	0.4	0
110	1e+13	NDD	0.4	0.4	0
111	1e+13	NDD	0.4	0.4	0
732	0	CORRELATION	0.4	0.4	0
742	0	CORRELATION	0.4	0.4	0
879	0	CORRELATION	0.4	0.4	0
880	0	CORRELATION	0.4	0.4	0

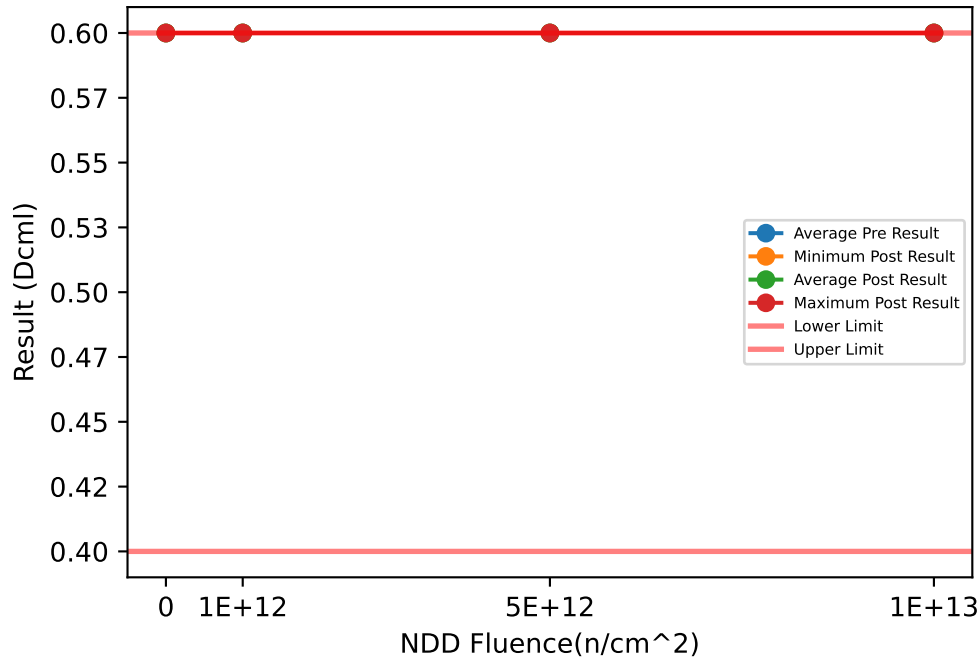
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
5e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+13	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

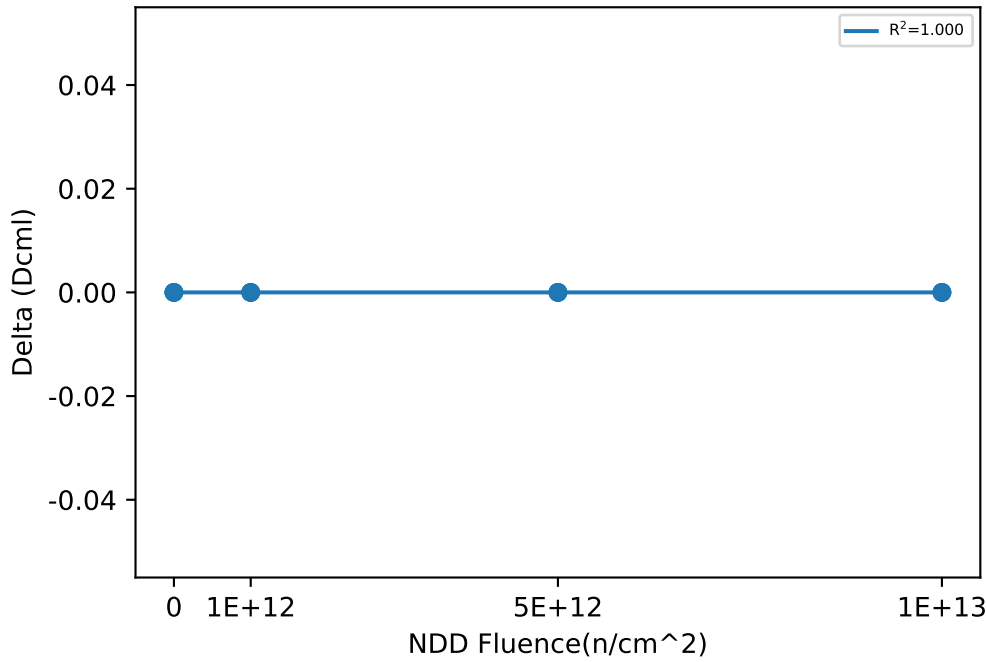
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6	0.6	0
101	1e+12	NDD	0.6	0.6	0
102	1e+12	NDD	0.6	0.6	0
103	1e+12	NDD	0.6	0.6	0
104	5e+12	NDD	0.6	0.6	0
105	5e+12	NDD	0.6	0.6	0
106	5e+12	NDD	0.6	0.6	0
107	5e+12	NDD	0.6	0.6	0
108	1e+13	NDD	0.6	0.6	0
109	1e+13	NDD	0.6	0.6	0
110	1e+13	NDD	0.6	0.6	0
111	1e+13	NDD	0.6	0.6	0
732	0	CORRELATION	0.6	0.6	0
742	0	CORRELATION	0.6	0.6	0
879	0	CORRELATION	0.6	0.6	0
880	0	CORRELATION	0.6	0.6	0

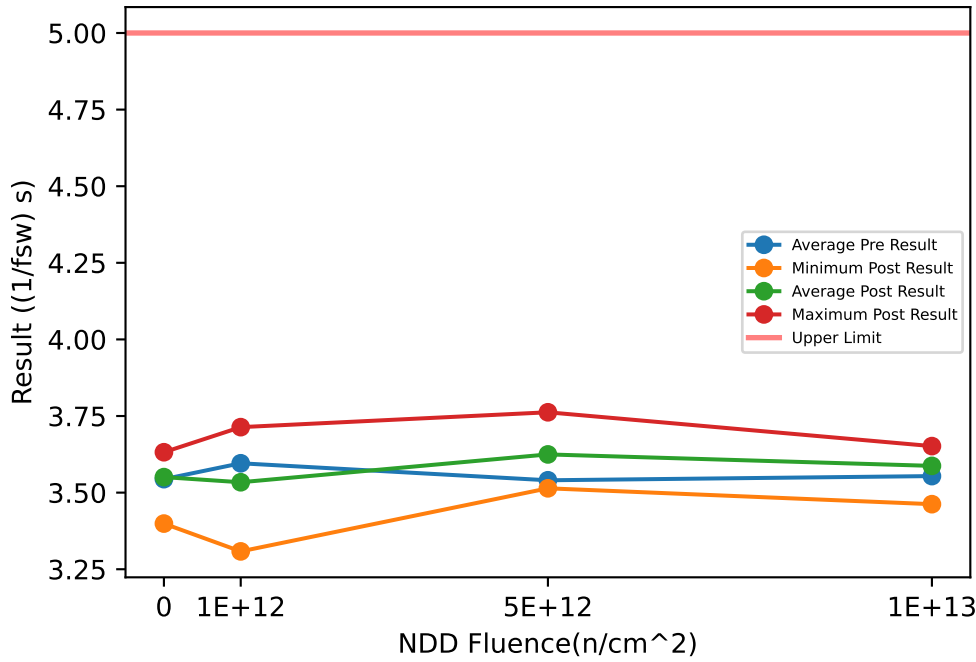
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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

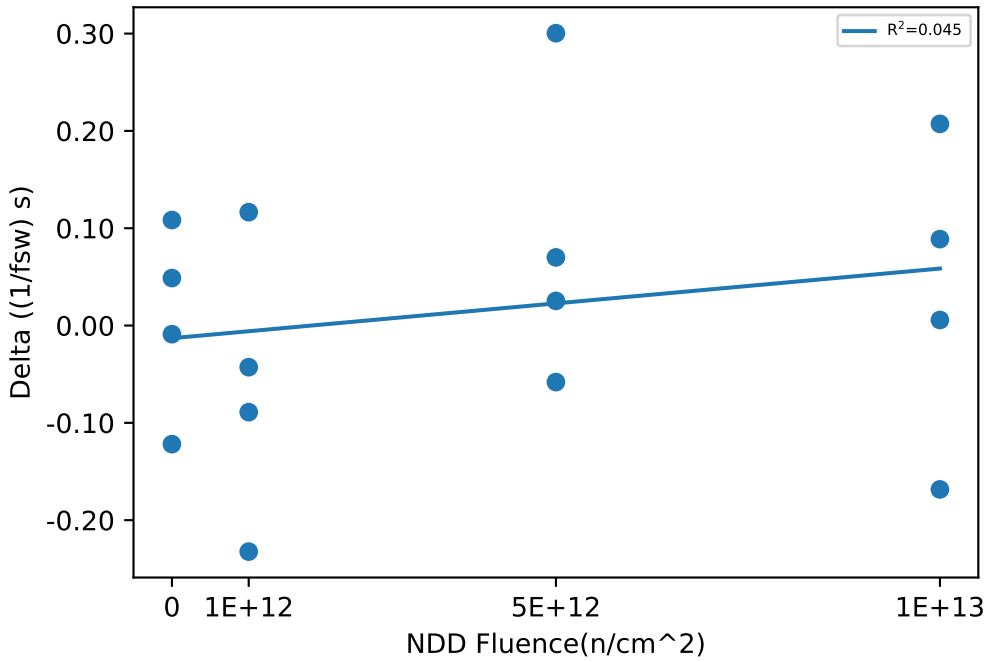
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.5885	3.5457	-0.0428
101	1e+12	NDD	3.5405	3.3082	-0.2323
102	1e+12	NDD	3.6569	3.5679	-0.089
103	1e+12	NDD	3.5972	3.7137	0.1165
104	5e+12	NDD	3.6651	3.607	-0.0581
105	5e+12	NDD	3.4618	3.7622	0.3004
106	5e+12	NDD	3.4888	3.5141	0.0253
107	5e+12	NDD	3.5455	3.6155	0.07
108	1e+13	NDD	3.6307	3.4623	-0.1684
109	1e+13	NDD	3.4446	3.6518	0.2072
110	1e+13	NDD	3.5485	3.6373	0.0888
111	1e+13	NDD	3.5921	3.5978	0.0057
732	0	CORRELATION	3.4792	3.5876	0.1084
742	0	CORRELATION	3.583	3.6318	0.0488
879	0	CORRELATION	3.5929	3.584	-0.0089
880	0	CORRELATION	3.5209	3.399	-0.1219

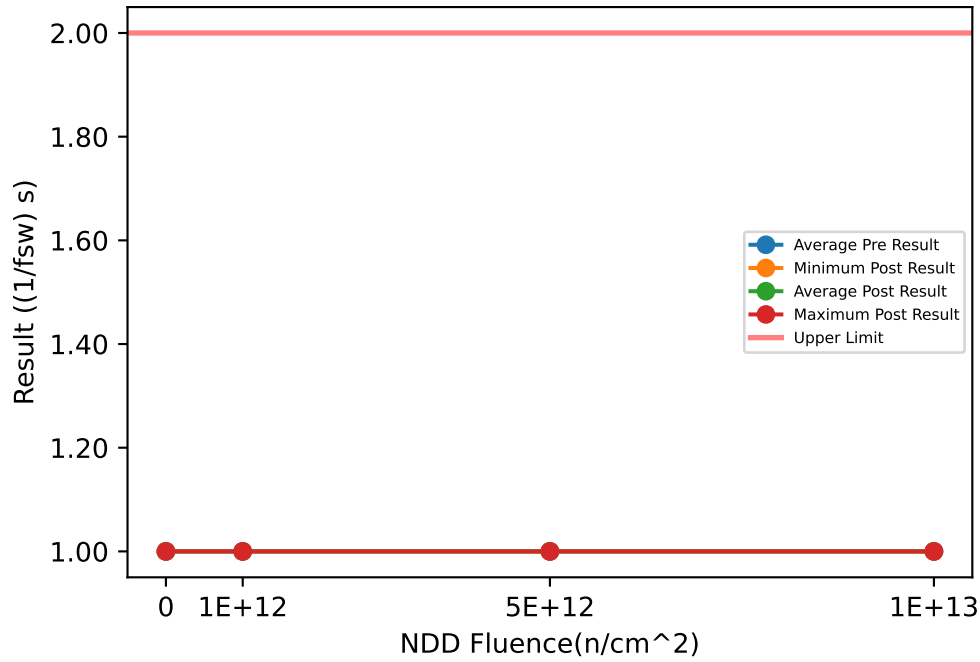
NDD vs Post - Pre Exposure Delta



Test Statistics ((1/fsw) 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	3.4792	3.544	3.5929	0.053681	3.399	3.5506	3.6318	0.10338	-0.1219	0.0066	0.1084	0.098144
1e+12	3.5405	3.5958	3.6569	0.047772	3.3082	3.5339	3.7137	0.16789	-0.2323	-0.0619	0.1165	0.14371
5e+12	3.4618	3.5403	3.6651	0.090216	3.5141	3.6247	3.7622	0.10253	-0.0581	0.0844	0.3004	0.15347
1e+13	3.4446	3.554	3.6307	0.080277	3.4623	3.5873	3.6518	0.086401	-0.1684	0.033325	0.2072	0.15787

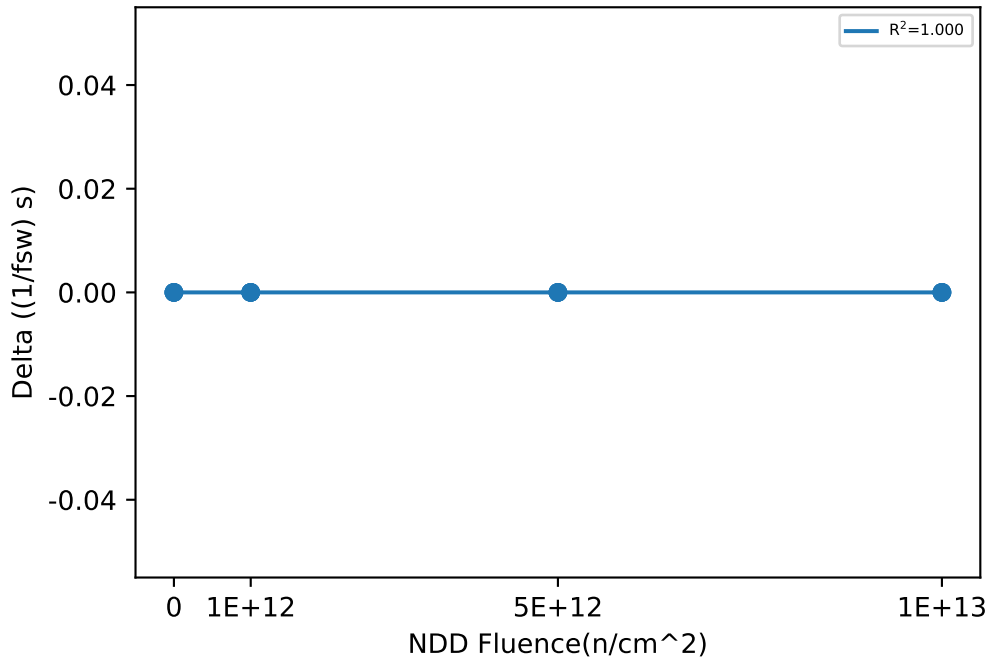
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1	1	0
101	1e+12	NDD	1	1	0
102	1e+12	NDD	1	1	0
103	1e+12	NDD	1	1	0
104	5e+12	NDD	1	1	0
105	5e+12	NDD	1	1	0
106	5e+12	NDD	1	1	0
107	5e+12	NDD	1	1	0
108	1e+13	NDD	1	1	0
109	1e+13	NDD	1	1	0
110	1e+13	NDD	1	1	0
111	1e+13	NDD	1	1	0
732	0	CORRELATION	1	1	0
742	0	CORRELATION	1	1	0
879	0	CORRELATION	1	1	0
880	0	CORRELATION	1	1	0

NDD vs Post - Pre Exposure Delta

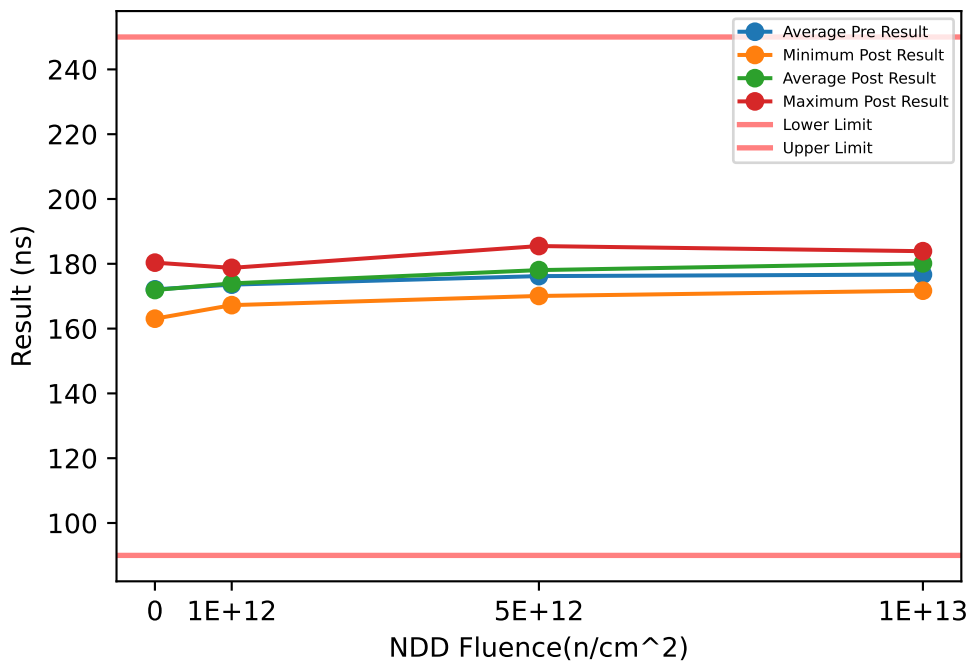


Test Statistics ((1/fsw) s)

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	1	1	0	1	1	1	0	0	0	0	0
1e+12	1	1	1	0	1	1	1	0	0	0	0	0
5e+12	1	1	1	0	1	1	1	0	0	0	0	0
1e+13	1	1	1	0	1	1	1	0	0	0	0	0

Device Test: 24.148 TIMING|DELAY/SYNC1/14//511k/4011/@SYNC1_SW_DELAY_OUTPUT

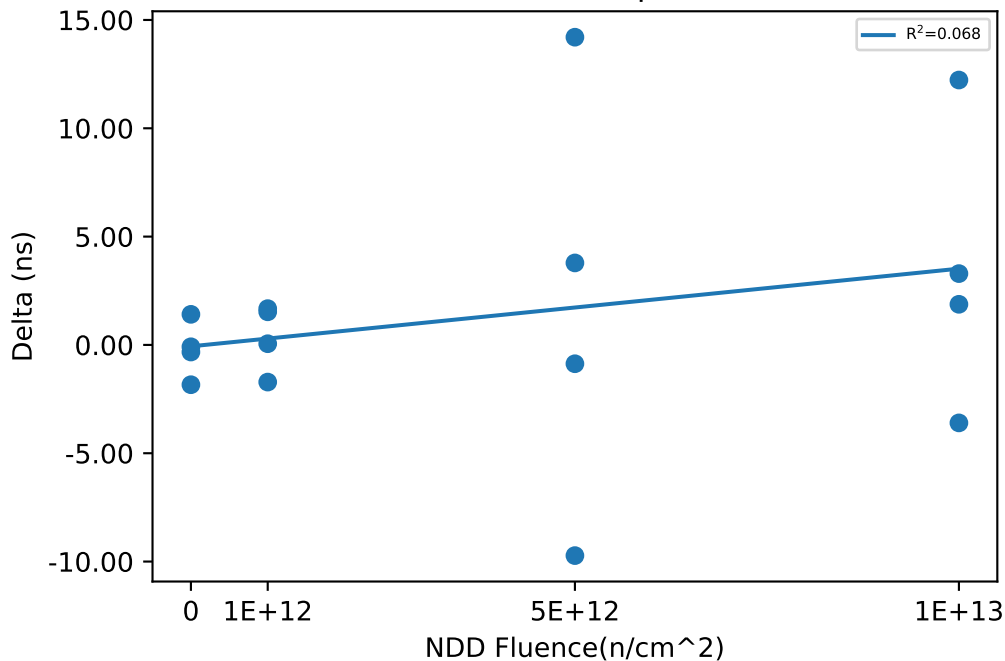
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	167.18	167.24	0.0553
101	1e+12	NDD	177.07	178.74	1.6749
102	1e+12	NDD	171.25	172.77	1.5282
103	1e+12	NDD	178.76	177.05	-1.7154
104	5e+12	NDD	179.8	170.07	-9.7251
105	5e+12	NDD	171.27	185.48	14.204
106	5e+12	NDD	182.26	181.39	-0.8688
107	5e+12	NDD	171.47	175.26	3.7845
108	1e+13	NDD	175.3	171.7	-3.5995
109	1e+13	NDD	178.84	182.13	3.2921
110	1e+13	NDD	170.57	182.8	12.228
111	1e+13	NDD	182.02	183.89	1.875
732	0	CORRELATION	163.39	163.06	-0.3278
742	0	CORRELATION	178.95	180.36	1.4114
879	0	CORRELATION	176.84	175	-1.8371
880	0	CORRELATION	169.28	169.2	-0.0862

NDD vs Post - Pre Exposure Delta

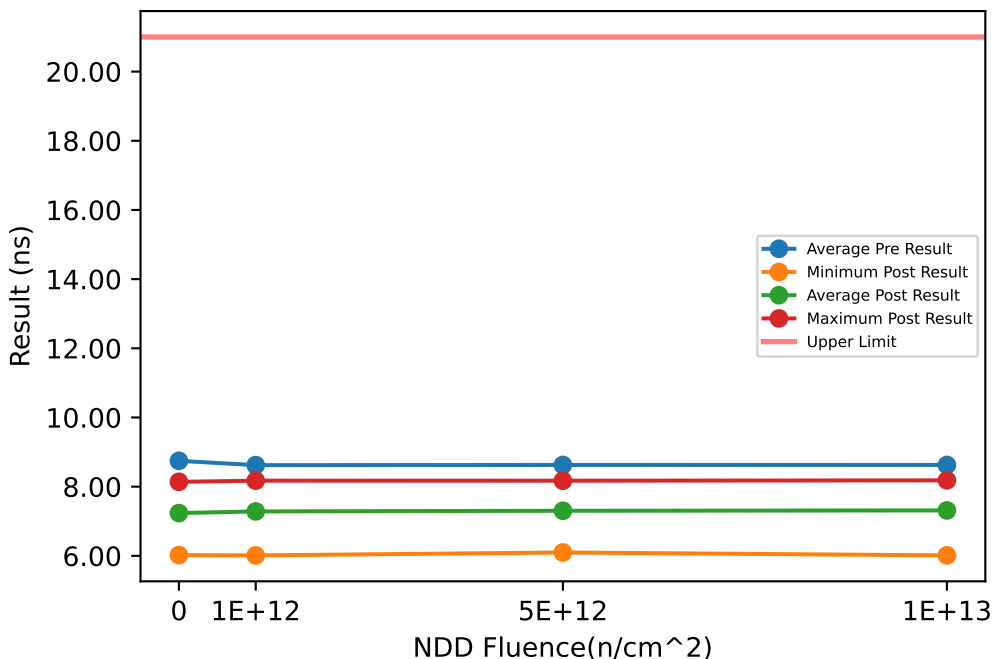


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	163.39	172.11	178.95	7.1453	163.06	171.9	180.36	7.4521	-1.8371	-0.20992	1.4114	1.3299
1e+12	167.18	173.57	178.76	5.3356	167.24	173.95	178.74	5.1318	-1.7154	0.38575	1.6749	1.5802
5e+12	171.27	176.2	182.26	5.6663	170.07	178.05	185.48	6.7771	-9.7251	1.8488	14.204	9.9624
1e+13	170.57	176.68	182.02	4.9119	171.7	180.13	183.89	5.6677	-3.5995	3.4488	12.228	6.5637

Device Test: 24.150 TIMING|RISE/SYNC1/14//511k/4011/@SYNC_LH_RISE_TIME

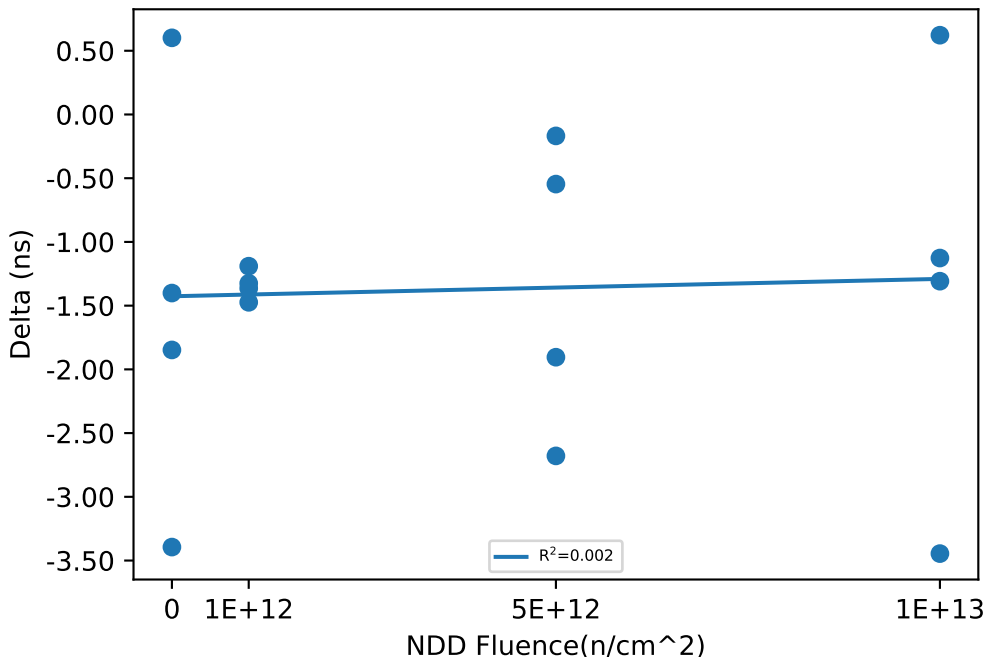
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	8.76	7.396	-1.364
101	1e+12	NDD	9.4986	8.1738	-1.3248
102	1e+12	NDD	8.7437	7.5533	-1.1904
103	1e+12	NDD	7.4869	6.0131	-1.4738
104	5e+12	NDD	7.5637	7.3956	-0.1681
105	5e+12	NDD	8.7186	8.1724	-0.5462
106	5e+12	NDD	9.4511	7.5466	-1.9045
107	5e+12	NDD	8.7764	6.0975	-2.6789
108	1e+13	NDD	8.7404	7.4323	-1.3081
109	1e+13	NDD	7.5609	8.183	0.6221
110	1e+13	NDD	8.7521	7.6257	-1.1264
111	1e+13	NDD	9.4596	6.0141	-3.4455
732	0	CORRELATION	8.7663	7.3652	-1.4011
742	0	CORRELATION	7.5387	8.1401	0.6014
879	0	CORRELATION	9.4167	6.0224	-3.3943
880	0	CORRELATION	9.2663	7.4188	-1.8475

NDD vs Post - Pre Exposure Delta

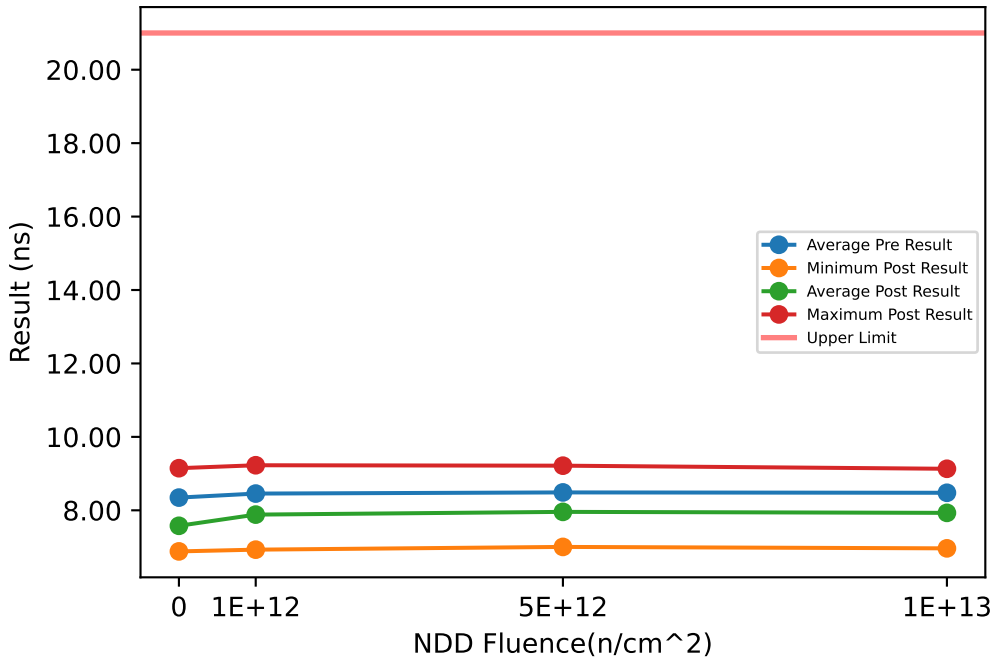


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.5387	8.747	9.4167	0.85216	6.0224	7.2366	8.1401	0.88324	-3.3943	-1.5104	0.6014	1.6466
1e+12	7.4869	8.6223	9.4986	0.83481	6.0131	7.2841	8.1738	0.91141	-1.4738	-1.3383	-1.1904	0.11701
5e+12	7.5637	8.6274	9.4511	0.78325	6.0975	7.303	8.1724	0.87121	-2.6789	-1.3244	-0.1681	1.171
1e+13	7.5609	8.6282	9.4596	0.78704	6.0141	7.3138	8.183	0.92305	-3.4455	-1.3145	0.6221	1.666

Device Test: 24.151 TIMING|RISE/SYNC2/14//511k//@SYNC_LH_RISE_TIME

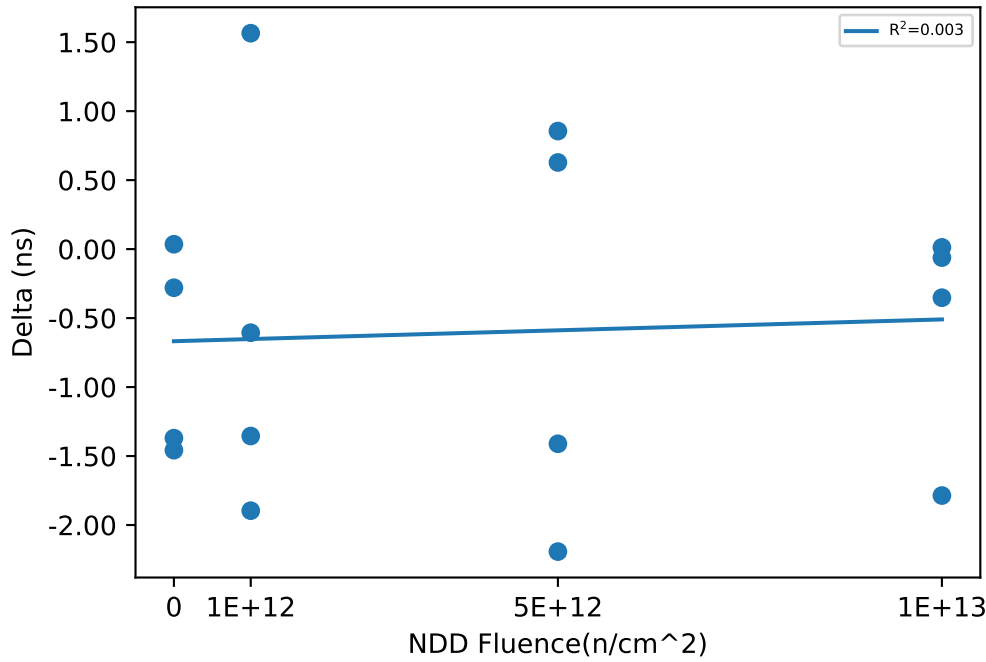
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	8.2833	6.9284	-1.3549
101	1e+12	NDD	7.6623	9.2273	1.565
102	1e+12	NDD	8.7386	8.1326	-0.606
103	1e+12	NDD	9.1395	7.2435	-1.896
104	5e+12	NDD	9.1956	7.003	-2.1926
105	5e+12	NDD	8.3602	9.2158	0.8556
106	5e+12	NDD	7.6086	8.2366	0.628
107	5e+12	NDD	8.7853	7.3743	-1.411
108	1e+13	NDD	8.7503	6.964	-1.7863
109	1e+13	NDD	9.1188	9.1313	0.0125
110	1e+13	NDD	8.4072	8.3456	-0.0616
111	1e+13	NDD	7.6337	7.2814	-0.3523
732	0	CORRELATION	8.3207	6.9505	-1.3702
742	0	CORRELATION	9.1117	9.1469	0.0352
879	0	CORRELATION	7.6146	7.3346	-0.28
880	0	CORRELATION	8.3384	6.881	-1.4574

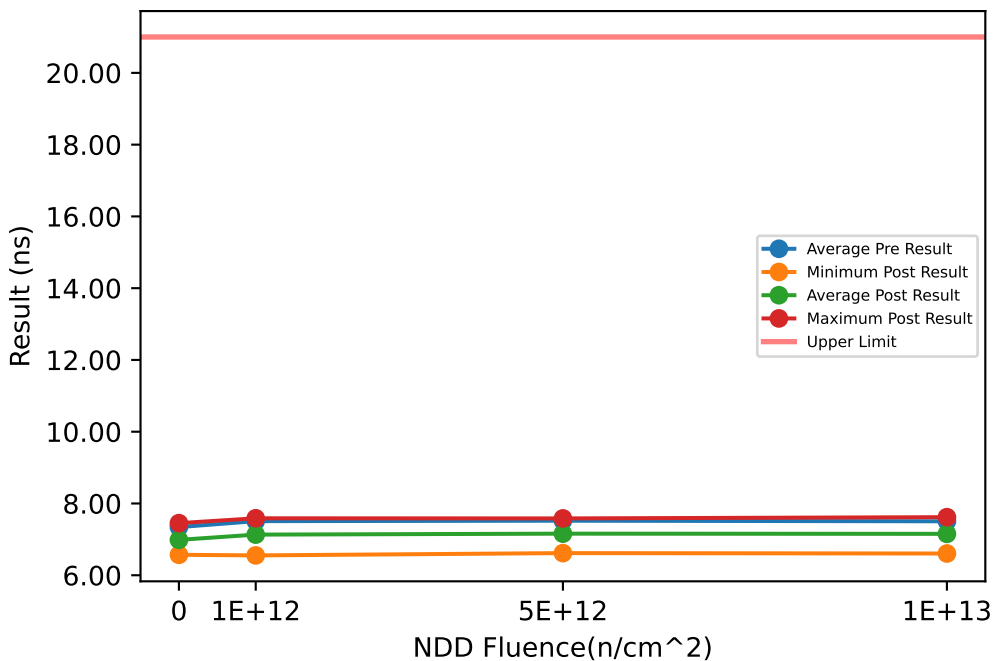
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.6146	8.3464	9.1117	0.61154	6.881	7.5783	9.1469	1.0646	-1.4574	-0.7681	0.0352	0.75745
1e+12	7.6623	8.4559	9.1395	0.63425	6.9284	7.883	9.2273	1.0311	-1.896	-0.57298	1.565	1.5203
5e+12	7.6086	8.4874	9.1956	0.67793	7.003	7.9574	9.2158	0.98529	-2.1926	-0.53	0.8556	1.5057
1e+13	7.6337	8.4775	9.1188	0.63315	6.964	7.9306	9.1313	0.99493	-1.7863	-0.54693	0.0125	0.84112

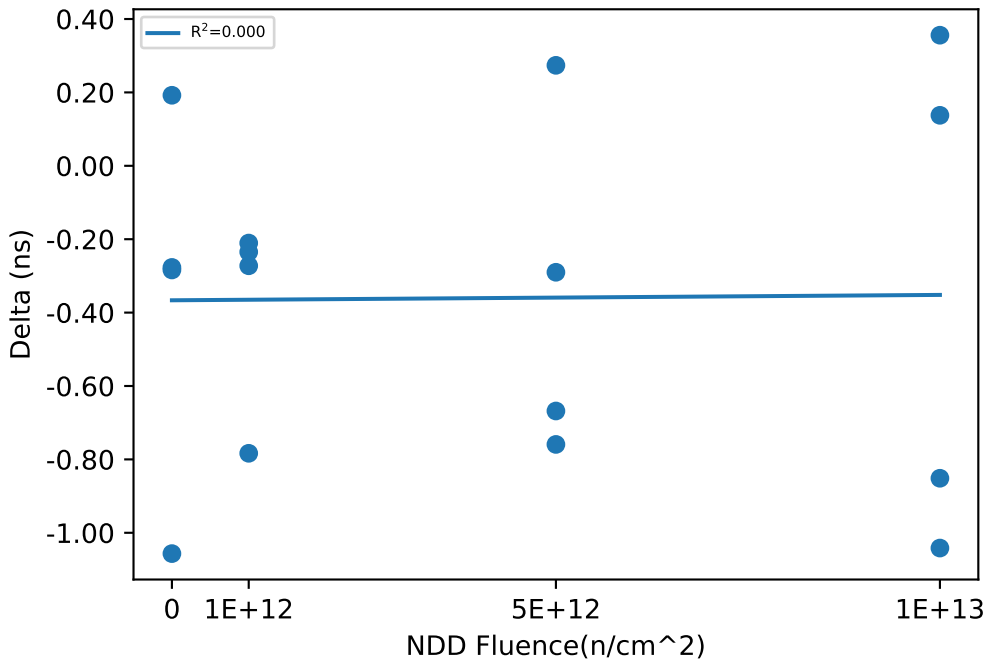
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	7.2337	6.9989	-0.2348
101	1e+12	NDD	7.3365	6.5531	-0.7834
102	1e+12	NDD	7.7978	7.5873	-0.2105
103	1e+12	NDD	7.6627	7.3903	-0.2724
104	5e+12	NDD	7.6697	6.9105	-0.7592
105	5e+12	NDD	7.2851	6.617	-0.6681
106	5e+12	NDD	7.3099	7.5837	0.2738
107	5e+12	NDD	7.8147	7.5246	-0.2901
108	1e+13	NDD	7.8267	6.9753	-0.8514
109	1e+13	NDD	7.6471	6.6055	-1.0416
110	1e+13	NDD	7.2624	7.6183	0.3559
111	1e+13	NDD	7.2778	7.4154	0.1376
732	0	CORRELATION	7.2634	6.9865	-0.2769
742	0	CORRELATION	7.6267	6.57	-1.0567
879	0	CORRELATION	7.2594	7.4516	0.1922
880	0	CORRELATION	7.2185	6.9347	-0.2838

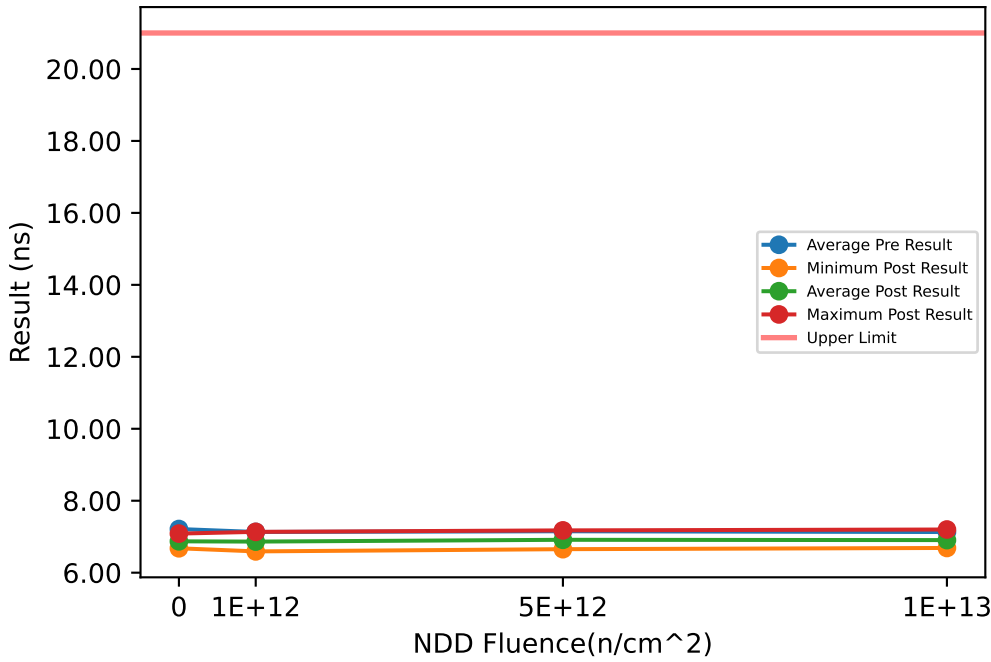
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.2185	7.342	7.6267	0.19088	6.57	6.9857	7.4516	0.3617	-1.0567	-0.3563	0.1922	0.51736
1e+12	7.2337	7.5077	7.7978	0.26619	6.5531	7.1324	7.5873	0.45711	-0.7834	-0.37528	-0.2105	0.27327
5e+12	7.2851	7.5198	7.8147	0.26368	6.617	7.1589	7.5837	0.47242	-0.7592	-0.3609	0.2738	0.46935
1e+13	7.2624	7.5035	7.8267	0.27937	6.6055	7.1536	7.6183	0.45339	-1.0416	-0.34988	0.3559	0.69899

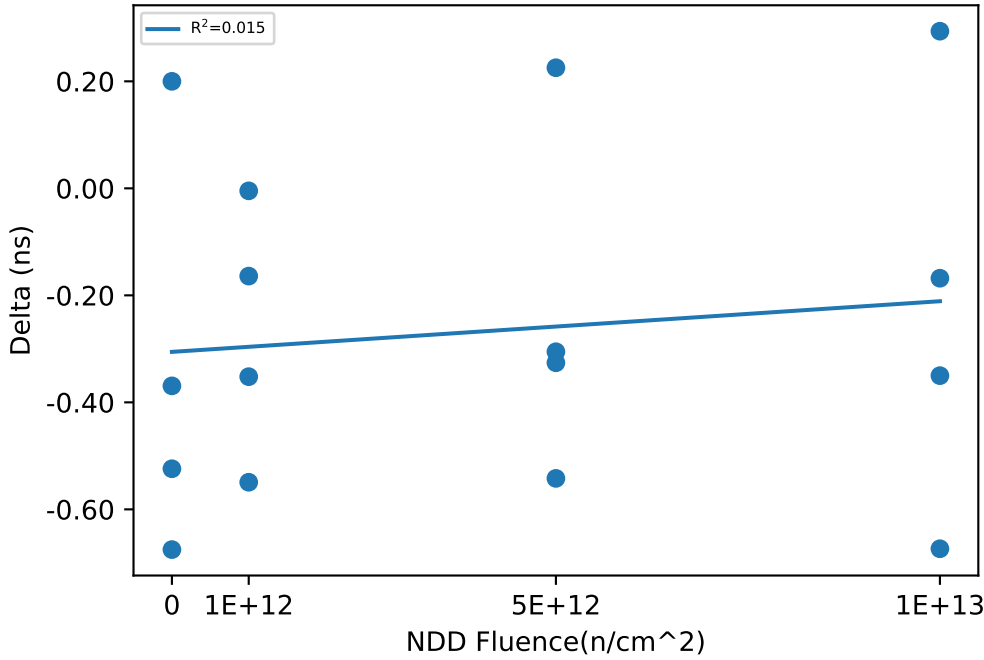
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	7.3216	6.7723	-0.5493
101	1e+12	NDD	6.9629	6.9582	-0.0047
102	1e+12	NDD	6.9437	6.5917	-0.352
103	1e+12	NDD	7.2988	7.1348	-0.164
104	5e+12	NDD	7.3348	6.7927	-0.5421
105	5e+12	NDD	7.3606	7.0346	-0.326
106	5e+12	NDD	6.9588	6.6534	-0.3054
107	5e+12	NDD	6.9504	7.1758	0.2254
108	1e+13	NDD	6.9285	6.7605	-0.168
109	1e+13	NDD	7.3241	6.974	-0.3501
110	1e+13	NDD	7.3607	6.6871	-0.6736
111	1e+13	NDD	6.9065	7.2002	0.2937
732	0	CORRELATION	7.3536	6.6784	-0.6752
742	0	CORRELATION	7.3063	6.9371	-0.3692
879	0	CORRELATION	6.8864	7.0864	0.2
880	0	CORRELATION	7.3085	6.7844	-0.5241

NDD vs Post - Pre Exposure Delta

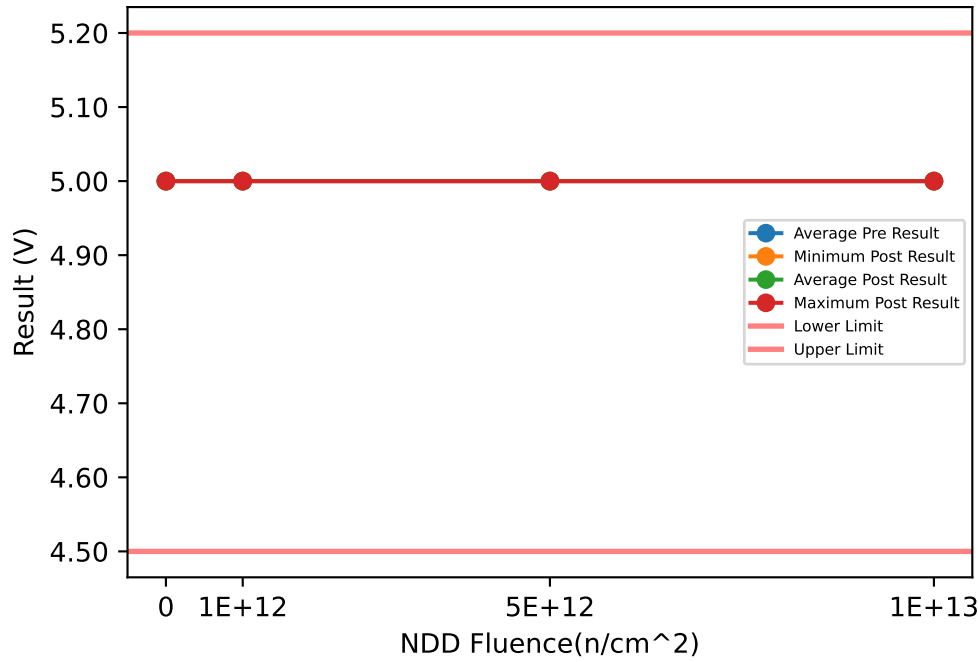


Test Statistics (ns)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.8864	7.2137	7.3536	0.21929	6.6784	6.8716	7.0864	0.17829	-0.6752	-0.34213	0.2	0.3824
1e+12	6.9437	7.1318	7.3216	0.20642	6.5917	6.8643	7.1348	0.23435	-0.5493	-0.2675	-0.0047	0.23546
5e+12	6.9504	7.1512	7.3606	0.22723	6.6534	6.9141	7.1758	0.23502	-0.5421	-0.23703	0.2254	0.32634
1e+13	6.9065	7.13	7.3607	0.24593	6.6871	6.9055	7.2002	0.23113	-0.6736	-0.2245	0.2937	0.40381

Device Test: 24.154 LEVELS|VOH/SYNC1/14//511k/4011/@SYNC_OUT_HIGH_7V

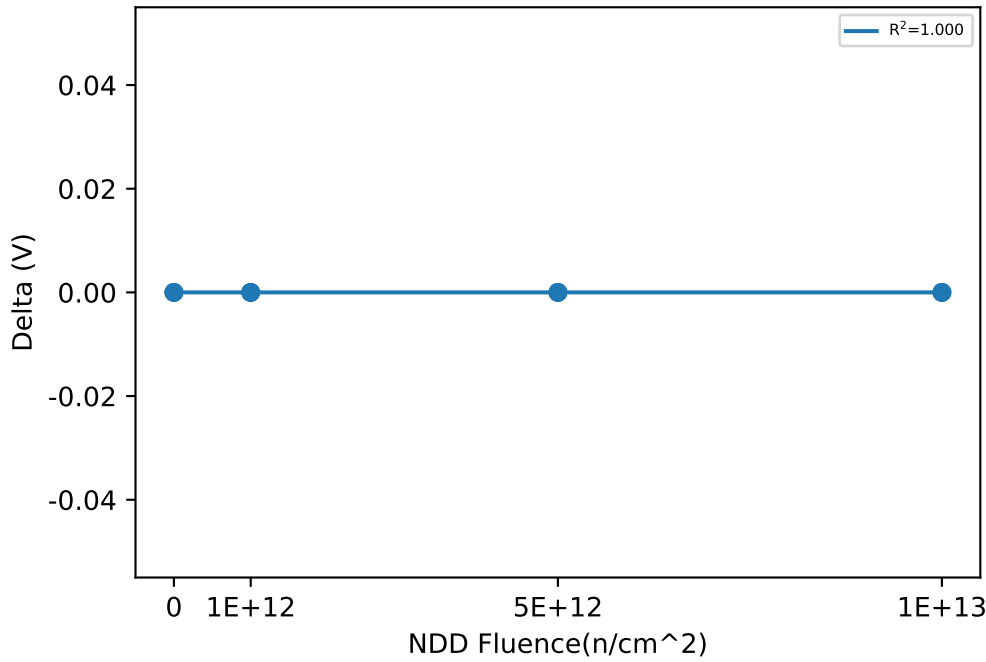
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5	5	0
101	1e+12	NDD	5	5	0
102	1e+12	NDD	5	5	0
103	1e+12	NDD	5	5	0
104	5e+12	NDD	5	5	0
105	5e+12	NDD	5	5	0
106	5e+12	NDD	5	5	0
107	5e+12	NDD	5	5	0
108	1e+13	NDD	5	5	0
109	1e+13	NDD	5	5	0
110	1e+13	NDD	5	5	0
111	1e+13	NDD	5	5	0
732	0	CORRELATION	5	5	0
742	0	CORRELATION	5	5	0
879	0	CORRELATION	5	5	0
880	0	CORRELATION	5	5	0

NDD vs Post - Pre Exposure Delta

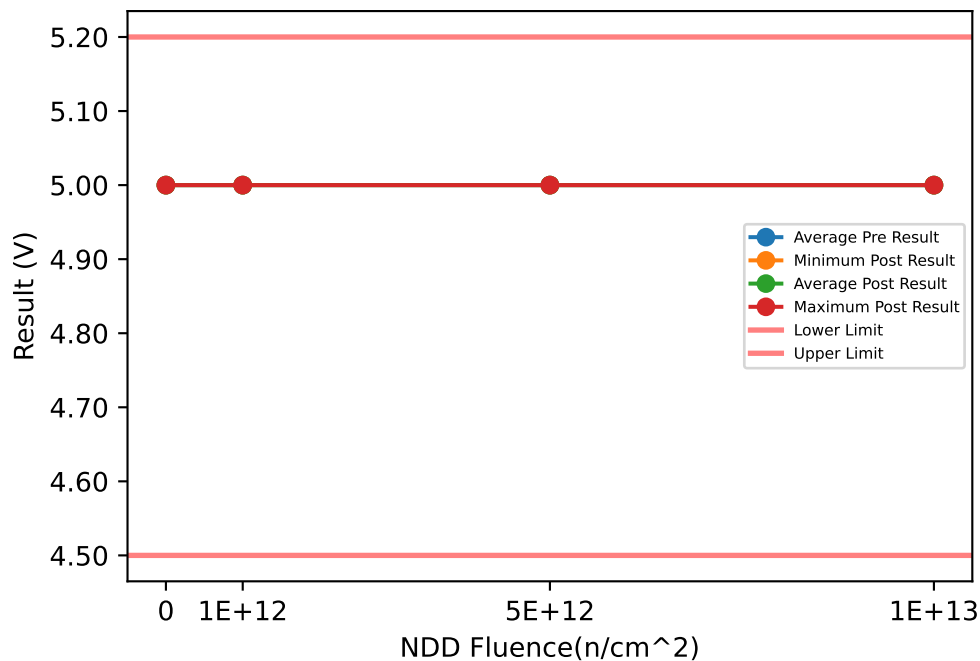


Test Statistics (V)

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	5	5	5	0	5	5	5	0	0	0	0	0
1e+12	5	5	5	0	5	5	5	0	0	0	0	0
5e+12	5	5	5	0	5	5	5	0	0	0	0	0
1e+13	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 24.155 LEVELS|VOH/SYNC2/14//511k//@SYNC_OUT_HIGH_7V

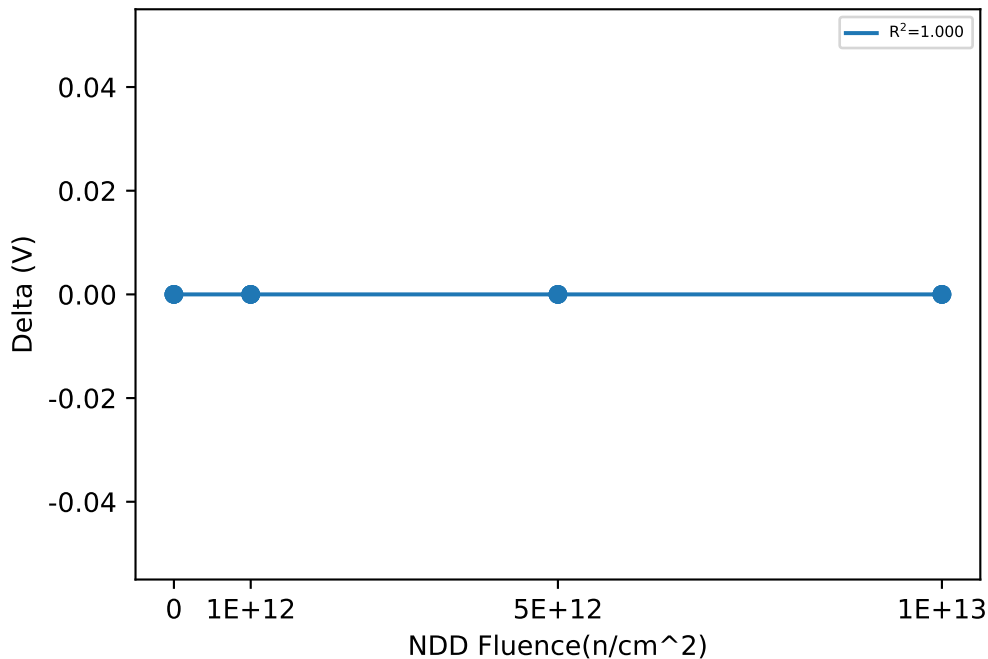
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	5	5	0
101	1e+12	NDD	5	5	0
102	1e+12	NDD	5	5	0
103	1e+12	NDD	5	5	0
104	5e+12	NDD	5	5	0
105	5e+12	NDD	5	5	0
106	5e+12	NDD	5	5	0
107	5e+12	NDD	5	5	0
108	1e+13	NDD	5	5	0
109	1e+13	NDD	5	5	0
110	1e+13	NDD	5	5	0
111	1e+13	NDD	5	5	0
732	0	CORRELATION	5	5	0
742	0	CORRELATION	5	5	0
879	0	CORRELATION	5	5	0
880	0	CORRELATION	5	5	0

NDD vs Post - Pre Exposure Delta

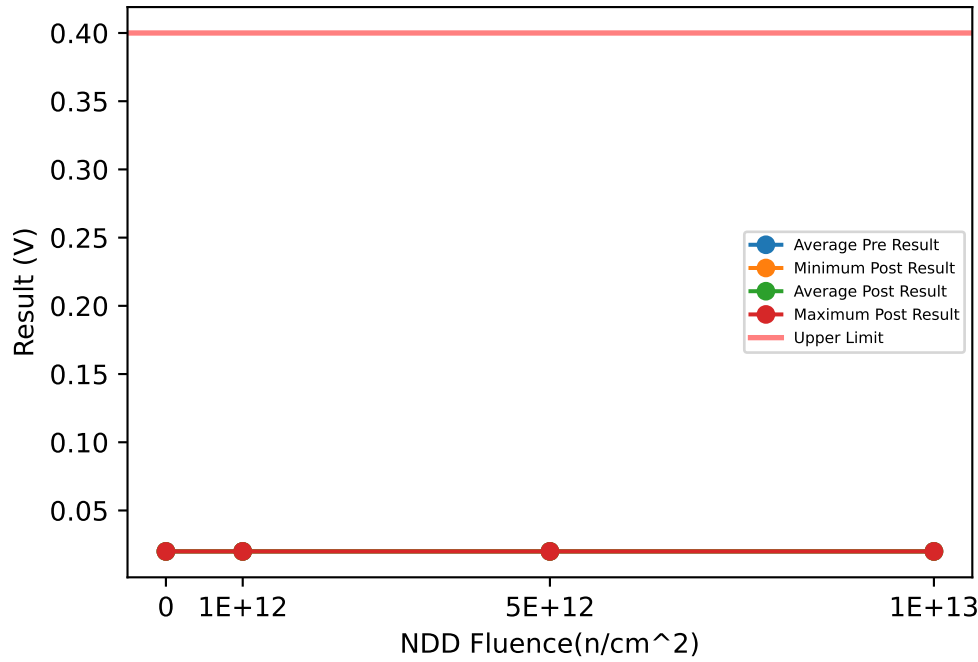


Test Statistics (V)

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	5	5	5	0	5	5	5	0	0	0	0	0
1e+12	5	5	5	0	5	5	5	0	0	0	0	0
5e+12	5	5	5	0	5	5	5	0	0	0	0	0
1e+13	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 24.156 LEVELS|VOL/SYNC1/14//511k/4011/@SYNC_OUT_LOW

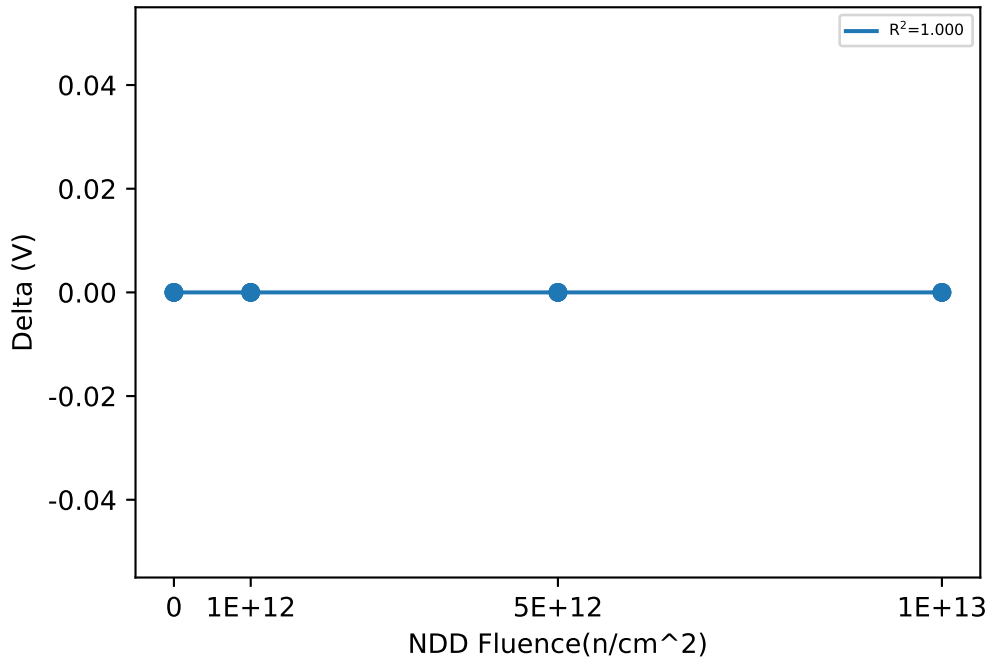
NDD vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.02	0.02	0
101	1e+12	NDD	0.02	0.02	0
102	1e+12	NDD	0.02	0.02	0
103	1e+12	NDD	0.02	0.02	0
104	5e+12	NDD	0.02	0.02	0
105	5e+12	NDD	0.02	0.02	0
106	5e+12	NDD	0.02	0.02	0
107	5e+12	NDD	0.02	0.02	0
108	1e+13	NDD	0.02	0.02	0
109	1e+13	NDD	0.02	0.02	0
110	1e+13	NDD	0.02	0.02	0
111	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

NDD vs Post - Pre Exposure Delta

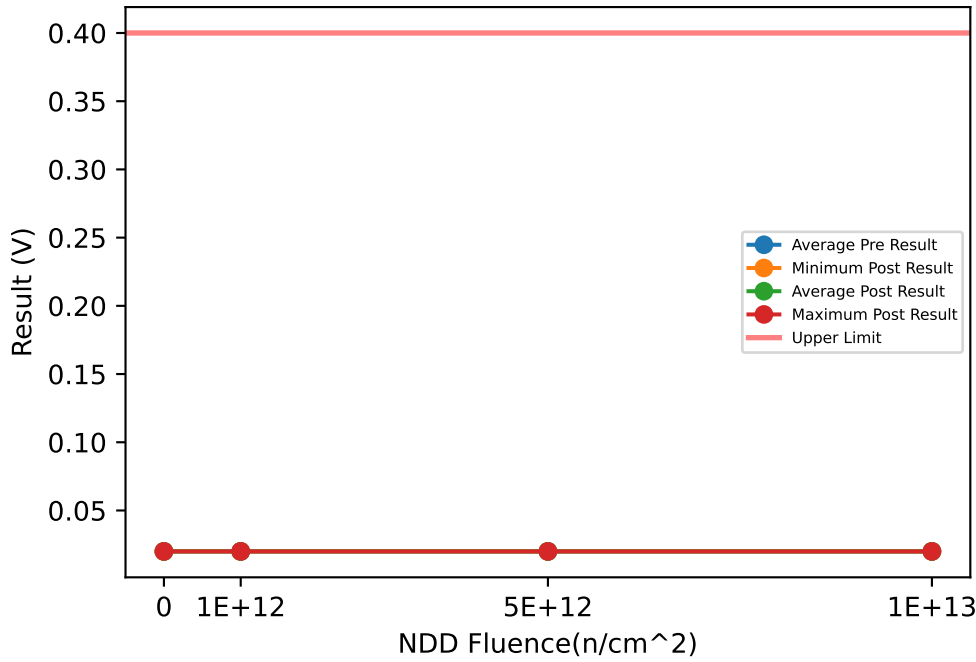


Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.157 LEVELS|VOL/SYNC2/14//511k//@SYNC_OUT_LOW

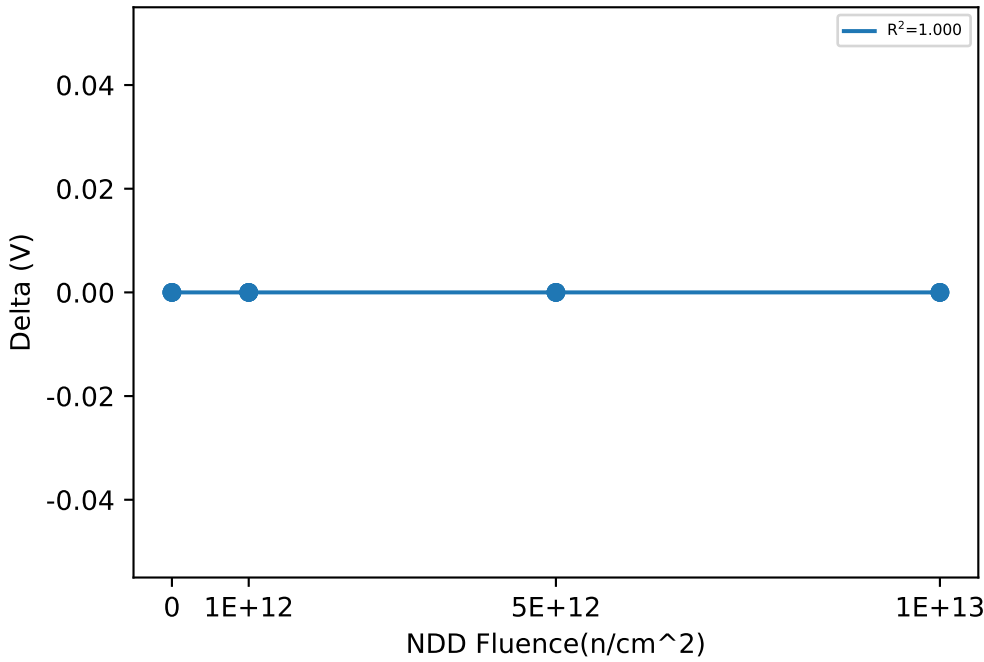
NDD vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.02	0.02	0
101	1e+12	NDD	0.02	0.02	0
102	1e+12	NDD	0.02	0.02	0
103	1e+12	NDD	0.02	0.02	0
104	5e+12	NDD	0.02	0.02	0
105	5e+12	NDD	0.02	0.02	0
106	5e+12	NDD	0.02	0.02	0
107	5e+12	NDD	0.02	0.02	0
108	1e+13	NDD	0.02	0.02	0
109	1e+13	NDD	0.02	0.02	0
110	1e+13	NDD	0.02	0.02	0
111	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

NDD vs Post - Pre Exposure Delta

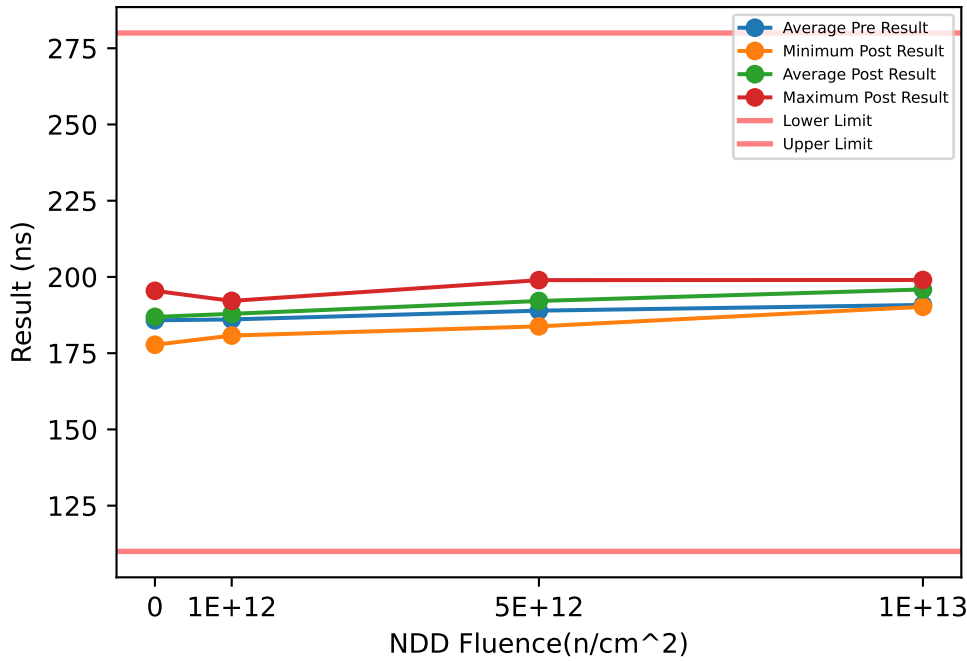


Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.16 TIMING|DELAY/SYNC1/4.5//511k/4011/@SYNC1_SW_DELAY_OUTPUT_4V

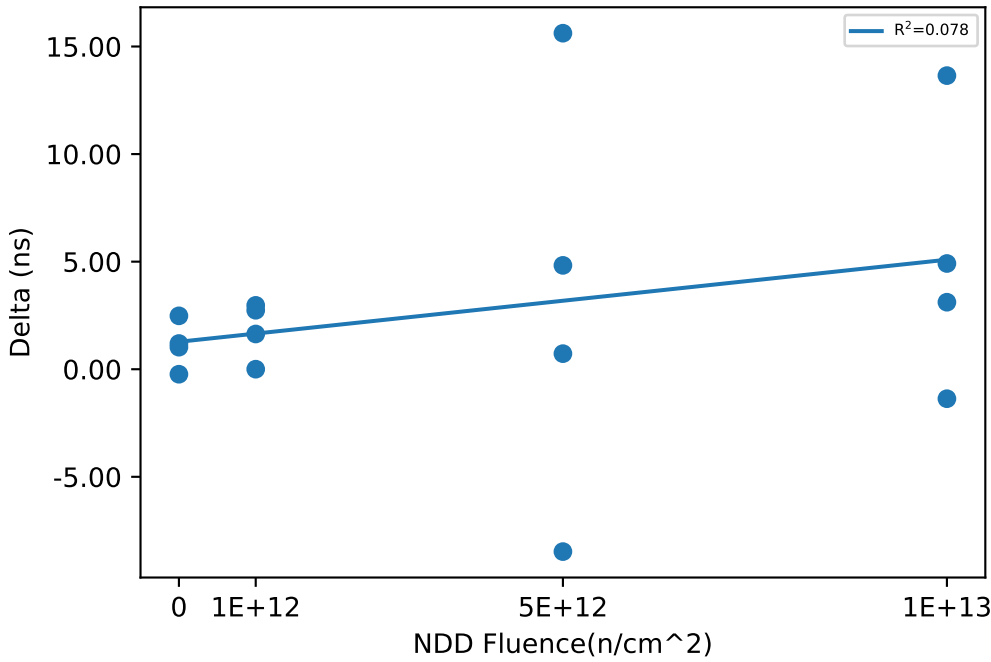
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	179.14	180.78	1.6382
101	1e+12	NDD	188.67	191.41	2.7409
102	1e+12	NDD	184.33	187.3	2.9685
103	1e+12	NDD	192.15	192.15	0.0021
104	5e+12	NDD	192.27	183.79	-8.476
105	5e+12	NDD	183.34	198.95	15.618
106	5e+12	NDD	194.89	195.61	0.7243
107	5e+12	NDD	185.3	190.13	4.8272
108	1e+13	NDD	191.59	190.22	-1.37
109	1e+13	NDD	194.09	199.01	4.9144
110	1e+13	NDD	183.43	197.07	13.647
111	1e+13	NDD	194.2	197.31	3.1151
732	0	CORRELATION	176.57	177.77	1.1955
742	0	CORRELATION	192.97	195.45	2.4816
879	0	CORRELATION	190.16	189.93	-0.2322
880	0	CORRELATION	183.44	184.46	1.0255

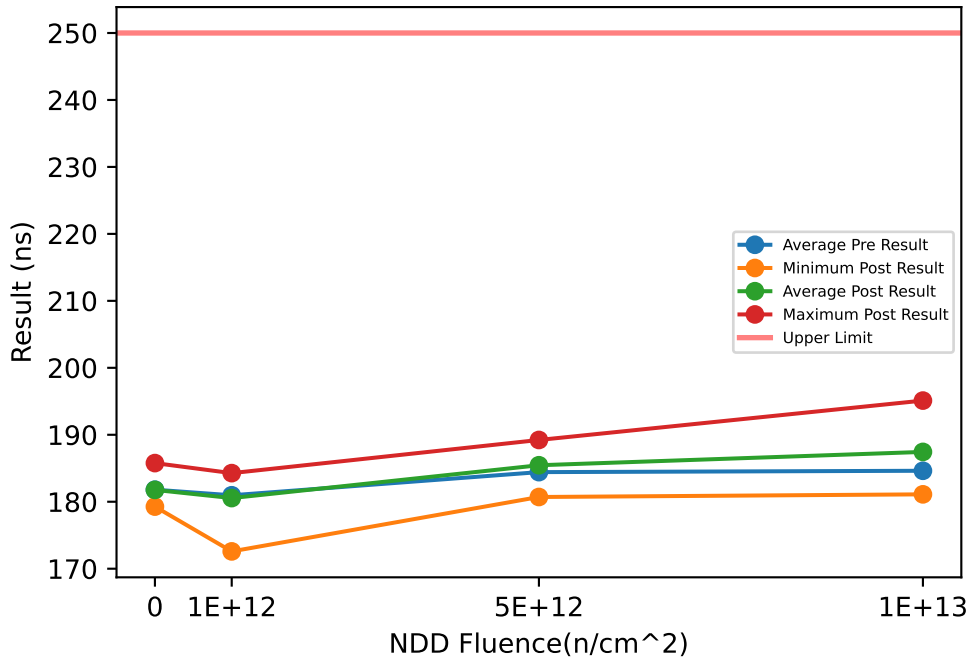
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	176.57	185.79	192.97	7.3302	177.77	186.9	195.45	7.5644	-0.2322	1.1176	2.4816	1.1101
1e+12	179.14	186.07	192.15	5.6195	180.78	187.91	192.15	5.2108	0.0021	1.8374	2.9685	1.3545
5e+12	183.34	188.95	194.89	5.5107	183.79	192.12	198.95	6.6401	-8.476	3.1735	15.618	9.9887
1e+13	183.43	190.83	194.2	5.0781	190.22	195.9	199.01	3.8861	-1.37	5.0767	13.647	6.2952

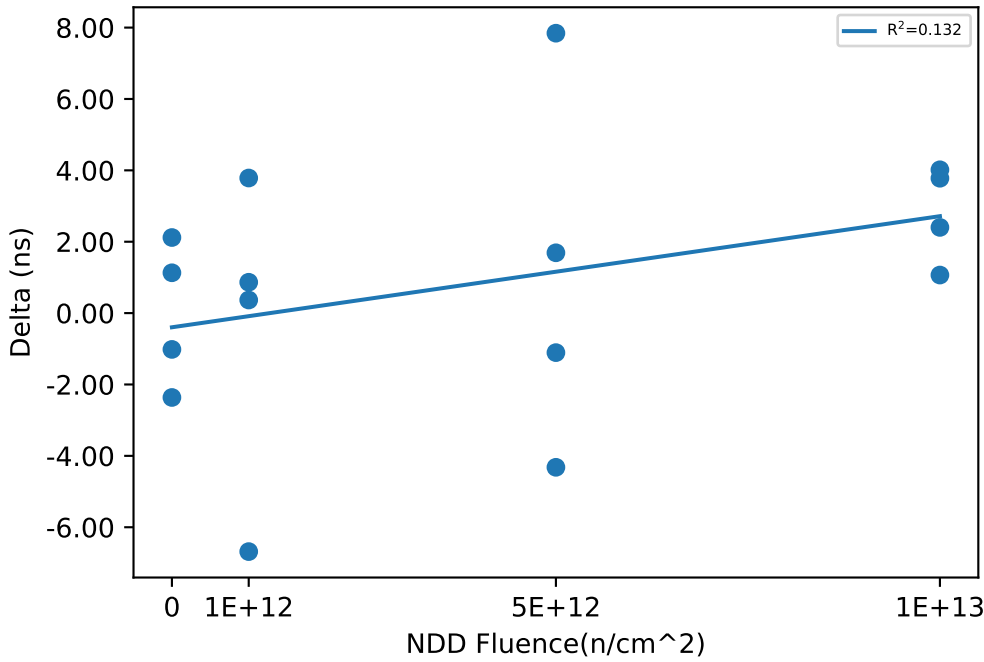
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	183.41	184.27	0.8644
101	1e+12	NDD	179.27	172.58	-6.6826
102	1e+12	NDD	181.95	182.32	0.367
103	1e+12	NDD	179.24	183.02	3.7853
104	5e+12	NDD	181.38	189.22	7.843
105	5e+12	NDD	185.03	180.71	-4.3205
106	5e+12	NDD	187.24	188.93	1.69
107	5e+12	NDD	184.04	182.93	-1.1074
108	1e+13	NDD	191.09	195.11	4.0158
109	1e+13	NDD	178.7	181.1	2.4017
110	1e+13	NDD	183.91	187.69	3.7789
111	1e+13	NDD	184.8	185.86	1.0663
732	0	CORRELATION	184.64	185.77	1.13
742	0	CORRELATION	180.29	179.27	-1.0173
879	0	CORRELATION	183.31	180.94	-2.3639
880	0	CORRELATION	178.96	181.08	2.118

NDD vs Post - Pre Exposure Delta

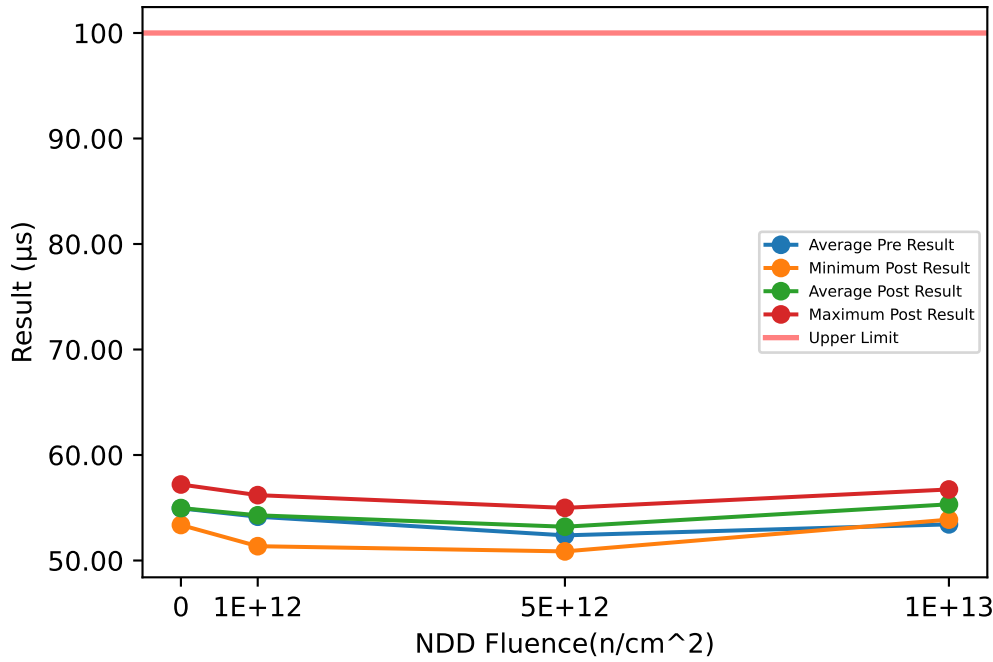


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	178.96	181.8	184.64	2.6248	179.27	181.77	185.77	2.793	-2.3639	-0.0333	2.118	2.0315
1e+12	179.24	180.97	183.41	2.0656	172.58	180.55	184.27	5.3712	-6.6826	-0.41648	3.7853	4.4412
5e+12	181.38	184.42	187.24	2.4301	180.71	185.45	189.22	4.29	-4.3205	1.0263	7.843	5.1656
1e+13	178.7	184.63	191.09	5.0799	181.1	187.44	195.11	5.8154	1.0663	2.8157	4.0158	1.3662

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

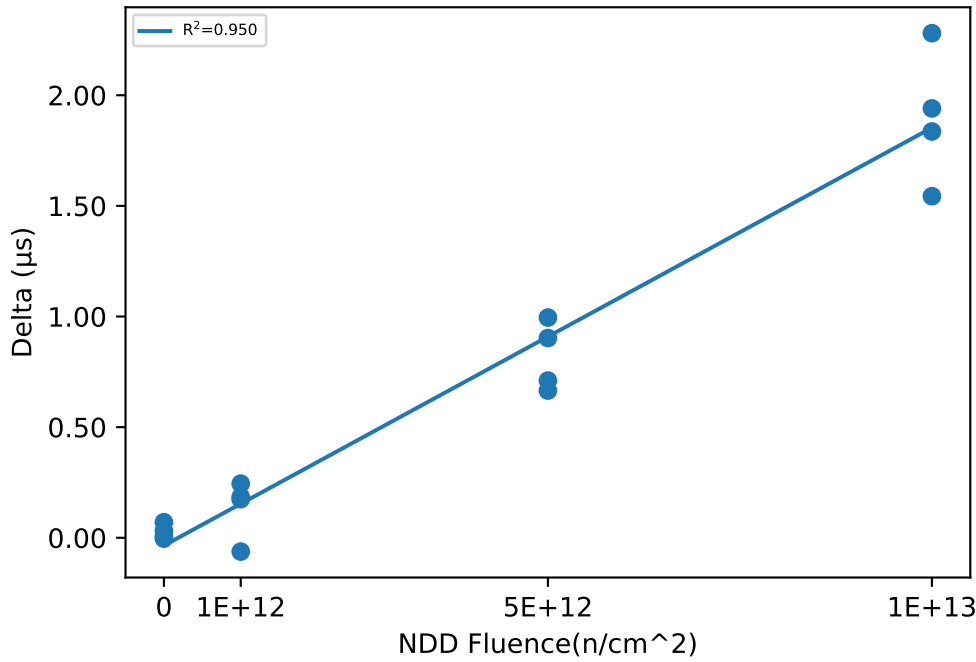
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	53.426	53.67	0.2448
101	1e+12	NDD	51.419	51.357	-0.0624
102	1e+12	NDD	56.021	56.196	0.1745
103	1e+12	NDD	55.736	55.921	0.1844
104	5e+12	NDD	51.704	52.699	0.9953
105	5e+12	NDD	54.278	54.988	0.7104
106	5e+12	NDD	53.356	54.258	0.9027
107	5e+12	NDD	50.198	50.864	0.6653
108	1e+13	NDD	52.453	54.733	2.2804
109	1e+13	NDD	52.331	53.875	1.5438
110	1e+13	NDD	54.898	56.734	1.8362
111	1e+13	NDD	54.022	55.962	1.9405
732	0	CORRELATION	57.173	57.205	0.032
742	0	CORRELATION	54.912	54.982	0.0705
879	0	CORRELATION	53.358	53.366	0.0076
880	0	CORRELATION	54.332	54.328	-0.0036

NDD vs Post - Pre Exposure Delta

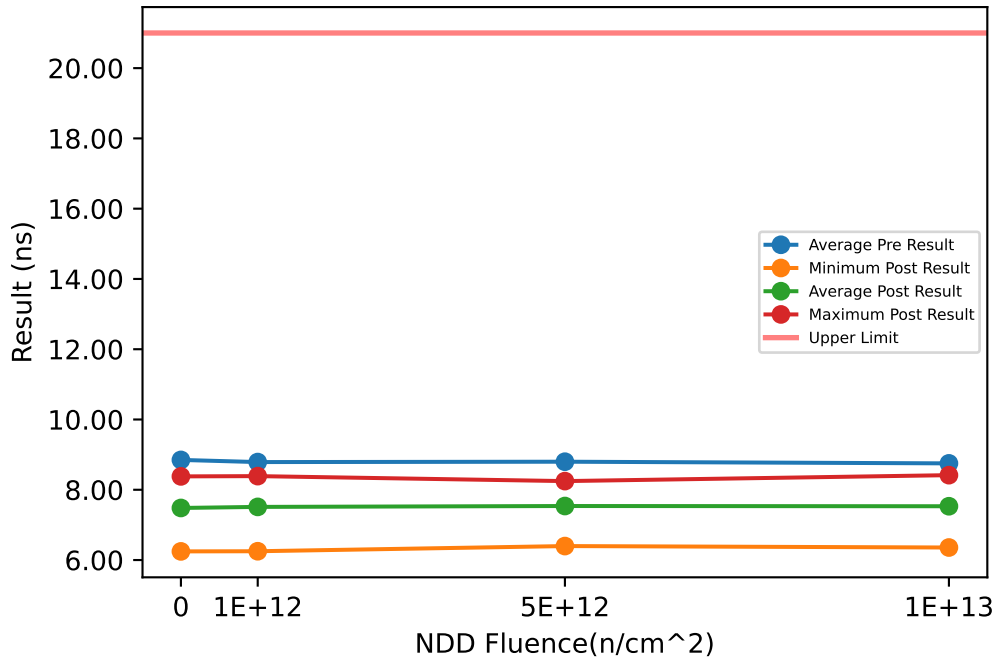


Test Statistics (µs)

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	53.358	54.944	57.173	1.6185	53.366	54.97	57.205	1.631	-0.0036	0.026625	0.0705	0.03281
1e+12	51.419	54.151	56.021	2.1602	51.357	54.286	56.196	2.2567	-0.0624	0.13533	0.2448	0.13543
5e+12	50.198	52.384	54.278	1.8046	50.864	53.202	54.988	1.8282	0.6653	0.81843	0.9953	0.15653
1e+13	52.331	53.426	54.898	1.2473	53.875	55.326	56.734	1.2708	1.5438	1.9002	2.2804	0.30402

Device Test: 24.18 TIMING|RISE/SYNC1/4.5//511k/4011/@SYNC_LH_RISE_TIME

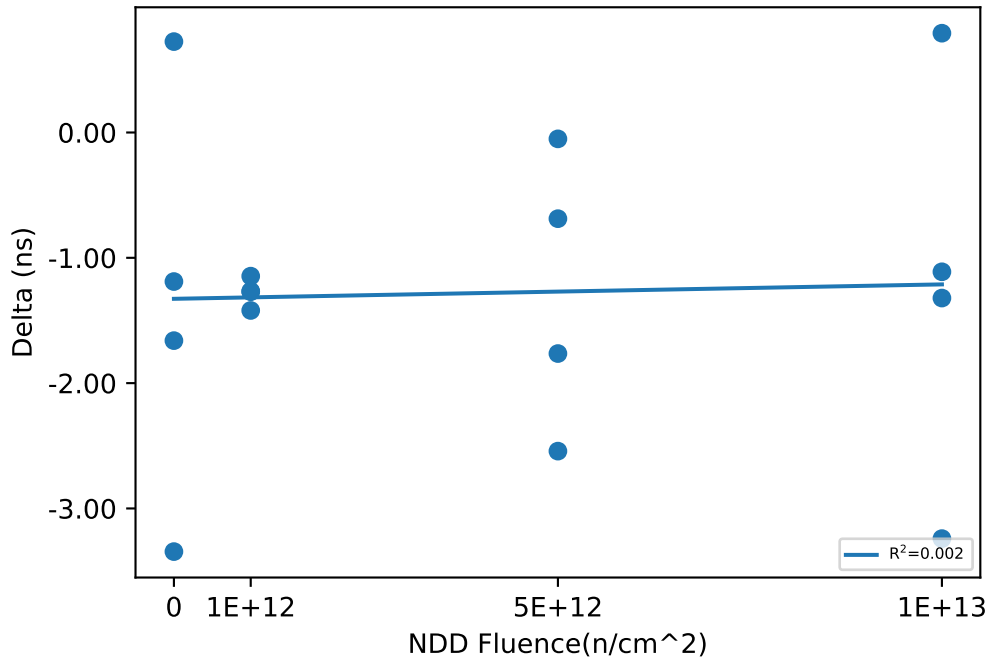
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	8.9011	7.6348	-1.2663
101	1e+12	NDD	9.6587	8.3883	-1.2704
102	1e+12	NDD	8.9224	7.7761	-1.1463
103	1e+12	NDD	7.6704	6.2503	-1.4201
104	5e+12	NDD	7.7164	7.6656	-0.0508
105	5e+12	NDD	8.9344	8.2467	-0.6877
106	5e+12	NDD	9.6031	7.8392	-1.7639
107	5e+12	NDD	8.9401	6.3975	-2.5426
108	1e+13	NDD	8.9087	7.5876	-1.3211
109	1e+13	NDD	7.6233	8.4157	0.7924
110	1e+13	NDD	8.8751	7.7636	-1.1115
111	1e+13	NDD	9.5973	6.3566	-3.2407
732	0	CORRELATION	8.8884	7.6991	-1.1893
742	0	CORRELATION	7.6553	8.3807	0.7254
879	0	CORRELATION	9.5902	6.2459	-3.3443
880	0	CORRELATION	9.2635	7.6027	-1.6608

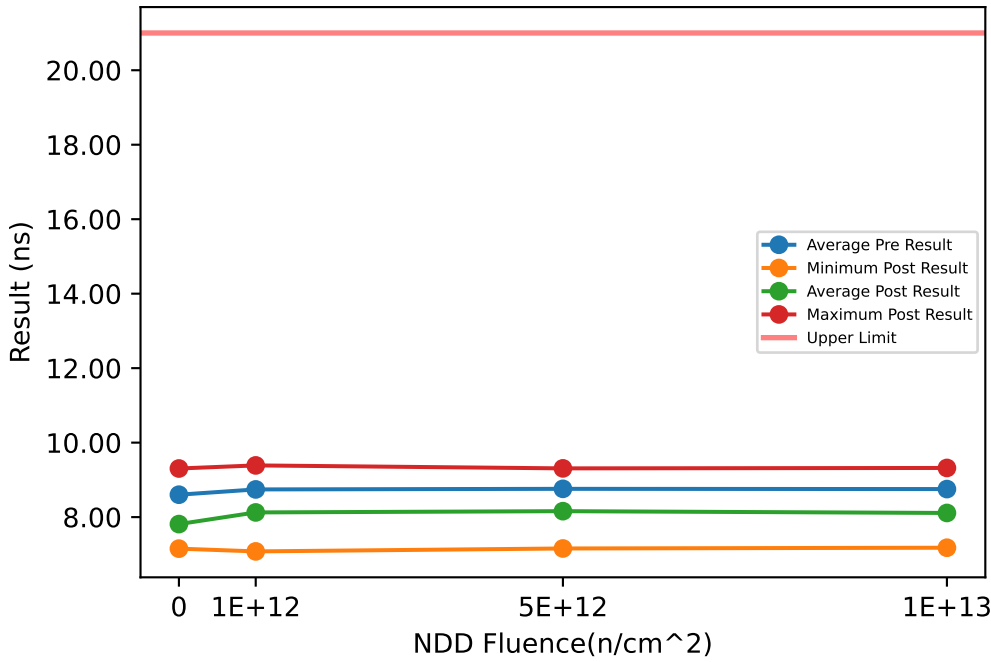
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.6553	8.8494	9.5902	0.8461	6.2459	7.4821	8.3807	0.89393	-3.3443	-1.3673	0.7254	1.6739
1e+12	7.6704	8.7881	9.6587	0.82422	6.2503	7.5124	8.3883	0.9027	-1.4201	-1.2758	-1.1463	0.11212
5e+12	7.7164	8.7985	9.6031	0.78673	6.3975	7.5373	8.2467	0.79791	-2.5426	-1.2612	-0.0508	1.1089
1e+13	7.6233	8.7511	9.5973	0.82223	6.3566	7.5309	8.4157	0.86008	-3.2407	-1.2202	0.7924	1.6487

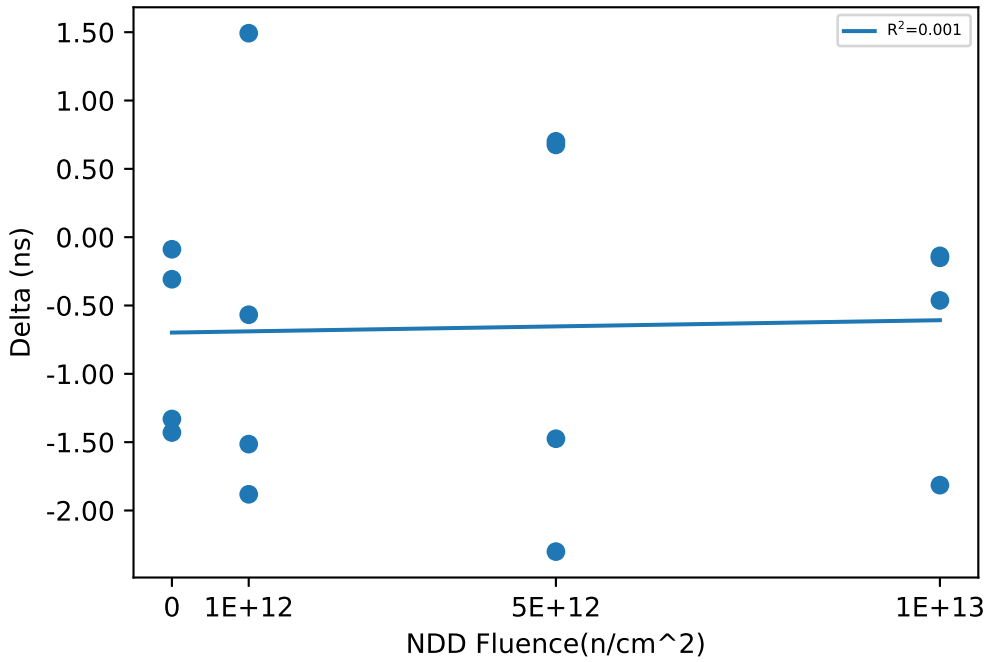
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	8.5936	7.0793	-1.5143
101	1e+12	NDD	7.8958	9.3884	1.4926
102	1e+12	NDD	9.0779	8.5104	-0.5675
103	1e+12	NDD	9.4066	7.5251	-1.8815
104	5e+12	NDD	9.4585	7.1577	-2.3008
105	5e+12	NDD	8.6072	9.3087	0.7015
106	5e+12	NDD	7.8824	8.5575	0.6751
107	5e+12	NDD	9.0885	7.6136	-1.4749
108	1e+13	NDD	8.9926	7.1779	-1.8147
109	1e+13	NDD	9.4567	9.3199	-0.1368
110	1e+13	NDD	8.6337	8.4824	-0.1513
111	1e+13	NDD	7.9291	7.4663	-0.4628
732	0	CORRELATION	8.5829	7.1534	-1.4295
742	0	CORRELATION	9.3938	9.3053	-0.0885
879	0	CORRELATION	7.872	7.5641	-0.3079
880	0	CORRELATION	8.5586	7.2282	-1.3304

NDD vs Post - Pre Exposure Delta

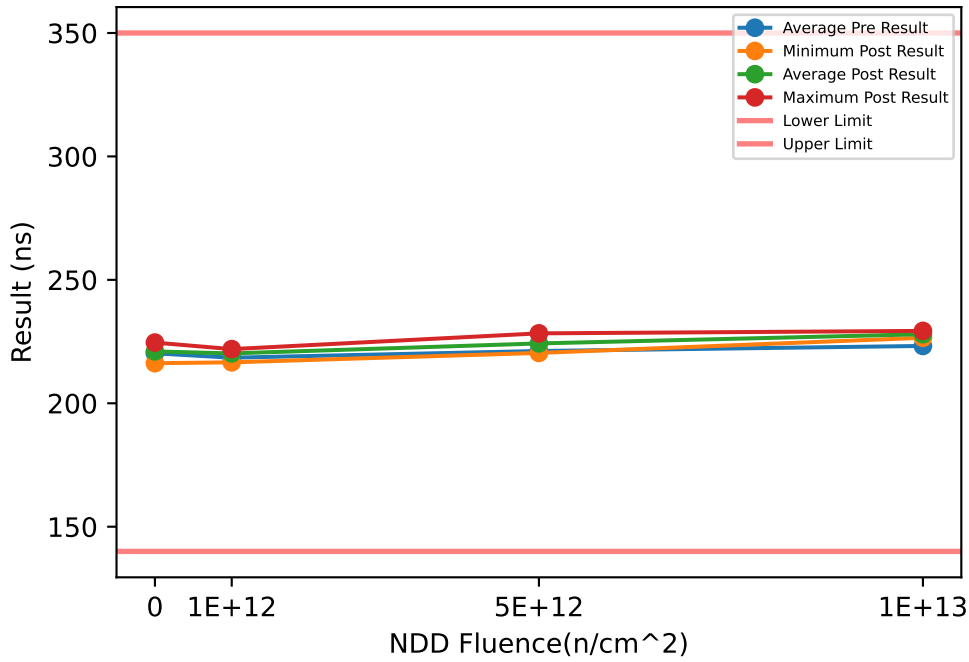


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.872	8.6018	9.3938	0.62239	7.1534	7.8128	9.3053	1.0109	-1.4295	-0.78907	-0.0885	0.68933
1e+12	7.8958	8.7435	9.4066	0.6564	7.0793	8.1258	9.3884	1.0325	-1.8815	-0.61767	1.4926	1.5118
5e+12	7.8824	8.7591	9.4585	0.68052	7.1577	8.1594	9.3087	0.96275	-2.3008	-0.59978	0.7015	1.5251
1e+13	7.9291	8.753	9.4567	0.64437	7.1779	8.1116	9.3199	0.98076	-1.8147	-0.6414	-0.1368	0.79652

Device Test: 24.2 TIMING|DELAY/SYNC1/4.5//OPEN/4011/@SYNC1_SW_DELAY_4V

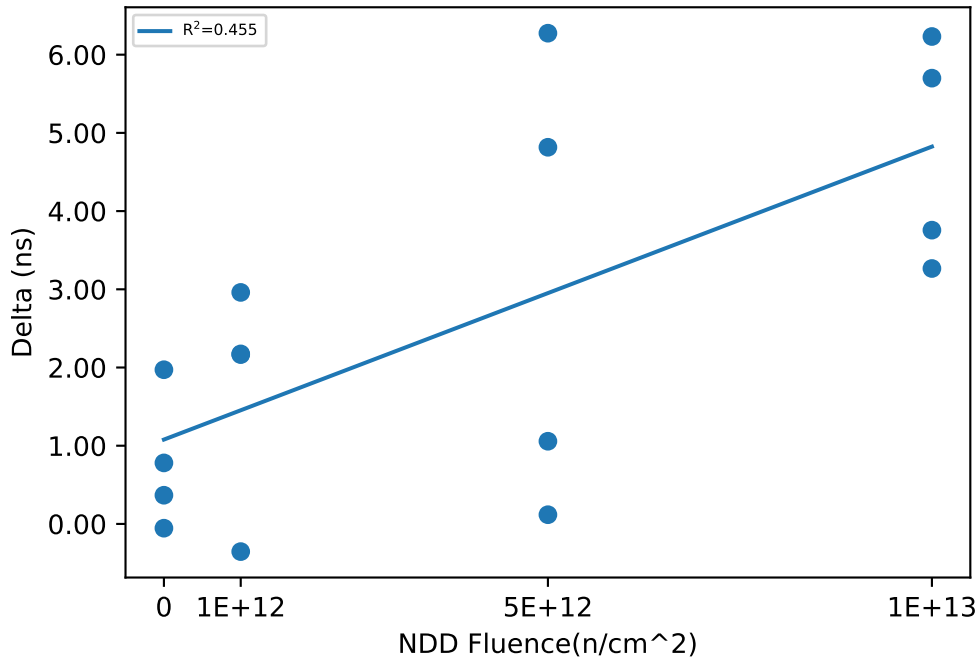
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	219	221.18	2.174
101	1e+12	NDD	218.14	221.1	2.9603
102	1e+12	NDD	214.42	216.58	2.1651
103	1e+12	NDD	222.3	221.94	-0.3538
104	5e+12	NDD	222.06	222.18	0.1179
105	5e+12	NDD	222.05	228.33	6.2747
106	5e+12	NDD	225.01	226.07	1.0572
107	5e+12	NDD	215.58	220.4	4.8162
108	1e+13	NDD	222.62	228.86	6.2325
109	1e+13	NDD	223.62	229.32	5.6999
110	1e+13	NDD	222.78	226.54	3.7564
111	1e+13	NDD	223.89	227.16	3.2661
732	0	CORRELATION	215.46	216.24	0.7802
742	0	CORRELATION	222.61	224.59	1.9717
879	0	CORRELATION	219.45	219.4	-0.0545
880	0	CORRELATION	223.47	223.83	0.3669

NDD vs Post - Pre Exposure Delta

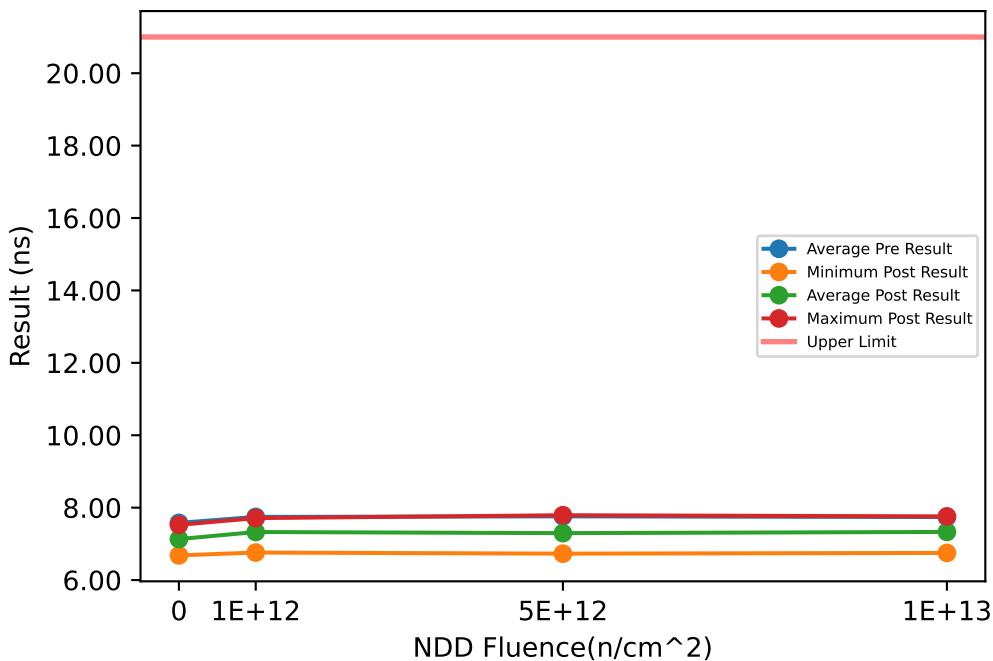


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	215.46	220.25	223.47	3.6282	216.24	221.02	224.59	3.9194	-0.0545	0.76608	1.9717	0.87301
1e+12	214.42	218.46	222.3	3.2376	216.58	220.2	221.94	2.4411	-0.3538	1.7364	2.9603	1.4425
5e+12	215.58	221.18	225.01	3.9807	220.4	224.24	228.33	3.6068	0.1179	3.0665	6.2747	2.9488
1e+13	222.62	223.23	223.89	0.62177	226.54	227.97	229.32	1.3327	3.2661	4.7387	6.2325	1.4478

Device Test: 24.20 TIMING|FALL/SYNC1/4.5//511k/4011/@SYNC_HL_FALL_TIME

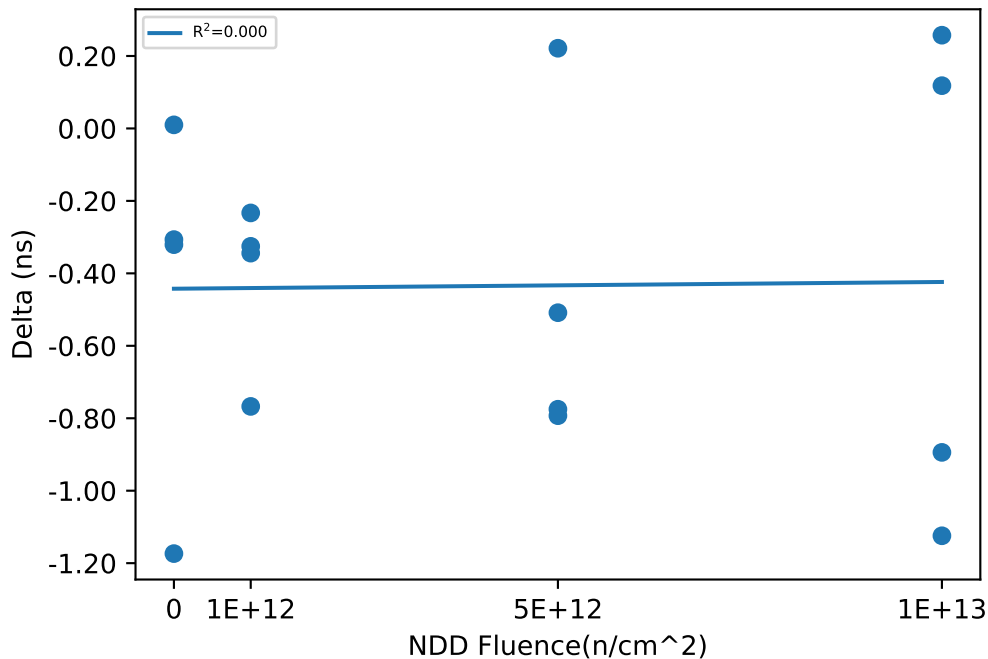
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	7.5312	7.187	-0.3442
101	1e+12	NDD	7.5273	6.76	-0.7673
102	1e+12	NDD	8.0367	7.7113	-0.3254
103	1e+12	NDD	7.8836	7.6504	-0.2332
104	5e+12	NDD	7.9005	7.1254	-0.7751
105	5e+12	NDD	7.5225	6.7296	-0.7929
106	5e+12	NDD	7.5695	7.7909	0.2214
107	5e+12	NDD	8.0475	7.5389	-0.5086
108	1e+13	NDD	8.0483	7.1541	-0.8942
109	1e+13	NDD	7.8743	6.7499	-1.1244
110	1e+13	NDD	7.5017	7.7591	0.2574
111	1e+13	NDD	7.536	7.6541	0.1181
732	0	CORRELATION	7.48	7.1732	-0.3068
742	0	CORRELATION	7.8549	6.6813	-1.1736
879	0	CORRELATION	7.5151	7.525	0.0099
880	0	CORRELATION	7.4676	7.1468	-0.3208

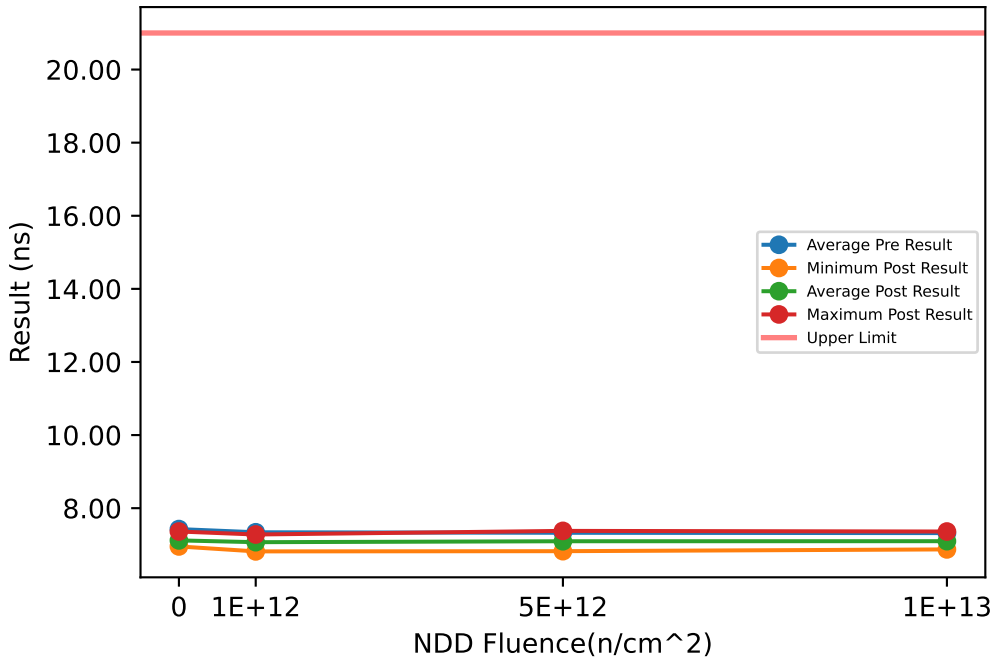
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.4676	7.5794	7.8549	0.18477	6.6813	7.1316	7.525	0.34617	-1.1736	-0.44783	0.0099	0.50737
1e+12	7.5273	7.7447	8.0367	0.25652	6.76	7.3272	7.7113	0.44473	-0.7673	-0.41753	-0.2332	0.23817
5e+12	7.5225	7.76	8.0475	0.25501	6.7296	7.2962	7.7909	0.46685	-0.7929	-0.4638	0.2214	0.47495
1e+13	7.5017	7.7401	8.0483	0.26551	6.7499	7.3293	7.7591	0.46784	-1.1244	-0.41077	0.2574	0.69979

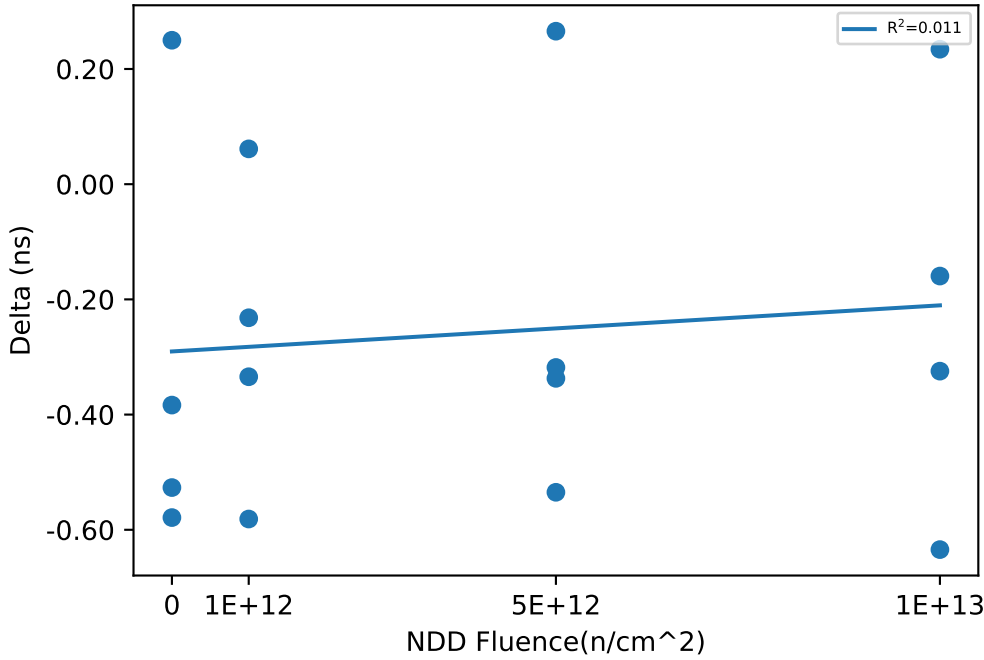
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	7.547	6.9657	-0.5813
101	1e+12	NDD	7.1539	7.2152	0.0613
102	1e+12	NDD	7.1519	6.8176	-0.3343
103	1e+12	NDD	7.5115	7.2796	-0.2319
104	5e+12	NDD	7.5234	6.9885	-0.5349
105	5e+12	NDD	7.5273	7.1902	-0.3371
106	5e+12	NDD	7.1418	6.8236	-0.3182
107	5e+12	NDD	7.1132	7.3788	0.2656
108	1e+13	NDD	7.1253	6.9658	-0.1595
109	1e+13	NDD	7.5131	7.1885	-0.3246
110	1e+13	NDD	7.5065	6.8721	-0.6344
111	1e+13	NDD	7.1272	7.3615	0.2343
732	0	CORRELATION	7.545	7.0183	-0.5267
742	0	CORRELATION	7.5245	7.141	-0.3835
879	0	CORRELATION	7.1118	7.3617	0.2499
880	0	CORRELATION	7.5319	6.9531	-0.5788

NDD vs Post - Pre Exposure Delta

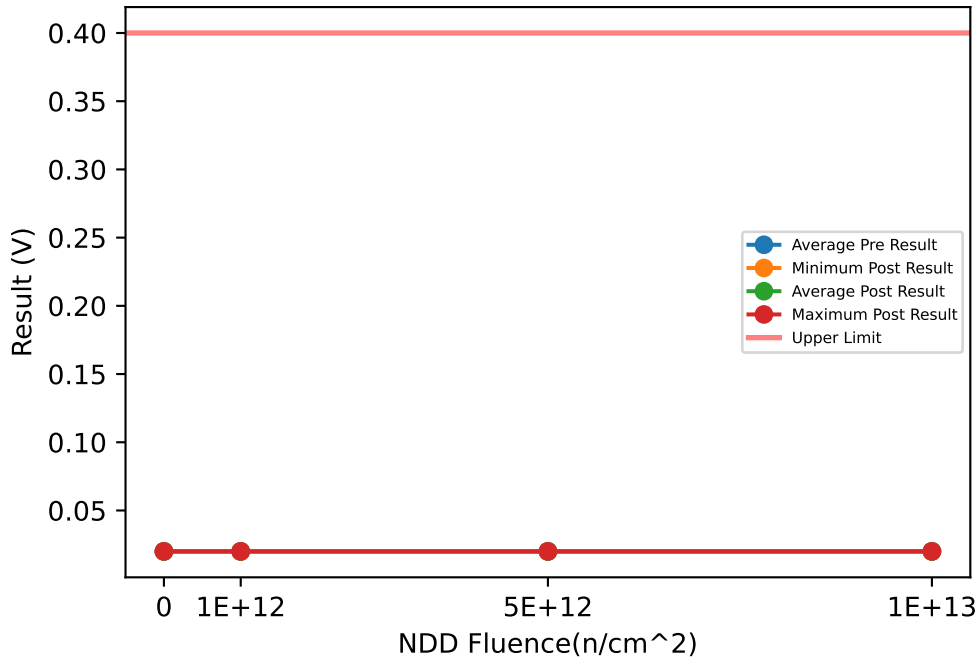


Test Statistics (ns)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.1118	7.4283	7.545	0.21117	6.9531	7.1185	7.3617	0.17986	-0.5788	-0.30977	0.2499	0.38214
1e+12	7.1519	7.3411	7.547	0.21777	6.8176	7.0695	7.2796	0.21571	-0.5813	-0.27155	0.0613	0.26598
5e+12	7.1132	7.3264	7.5273	0.23	6.8236	7.0953	7.3788	0.24125	-0.5349	-0.23115	0.2656	0.34536
1e+13	7.1253	7.318	7.5131	0.22146	6.8721	7.097	7.3615	0.2207	-0.6344	-0.22105	0.2343	0.36181

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

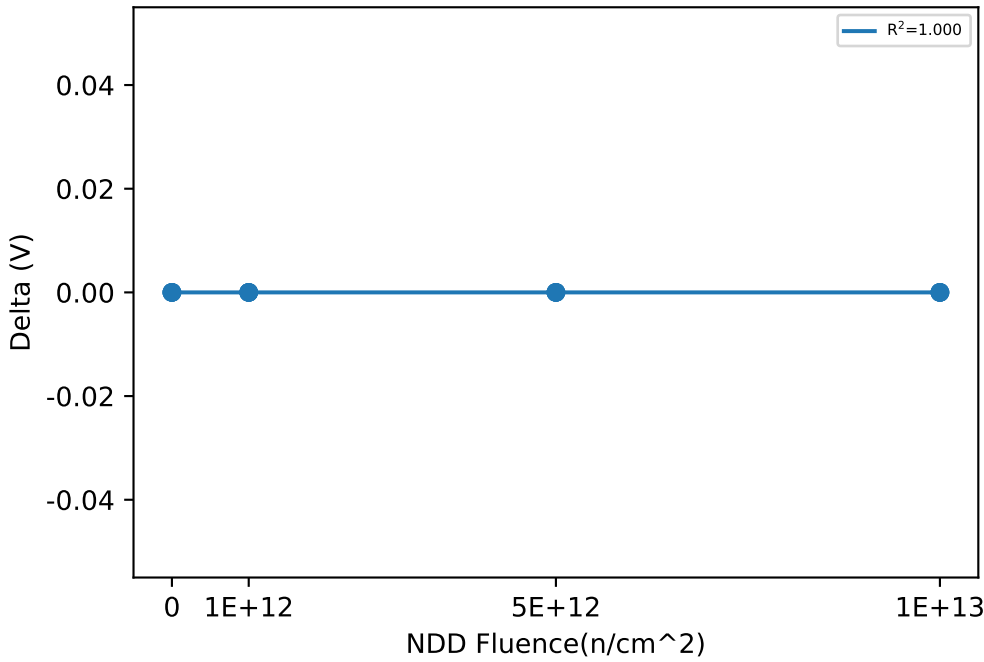
NDD vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.02	0.02	0
101	1e+12	NDD	0.02	0.02	0
102	1e+12	NDD	0.02	0.02	0
103	1e+12	NDD	0.02	0.02	0
104	5e+12	NDD	0.02	0.02	0
105	5e+12	NDD	0.02	0.02	0
106	5e+12	NDD	0.02	0.02	0
107	5e+12	NDD	0.02	0.02	0
108	1e+13	NDD	0.02	0.02	0
109	1e+13	NDD	0.02	0.02	0
110	1e+13	NDD	0.02	0.02	0
111	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

NDD vs Post - Pre Exposure Delta

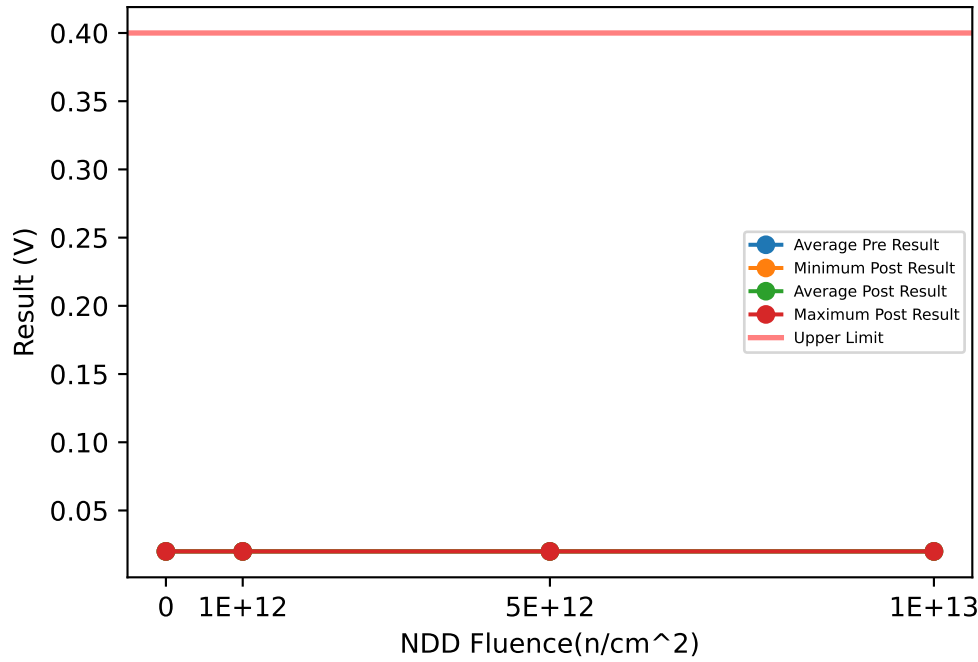


Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

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

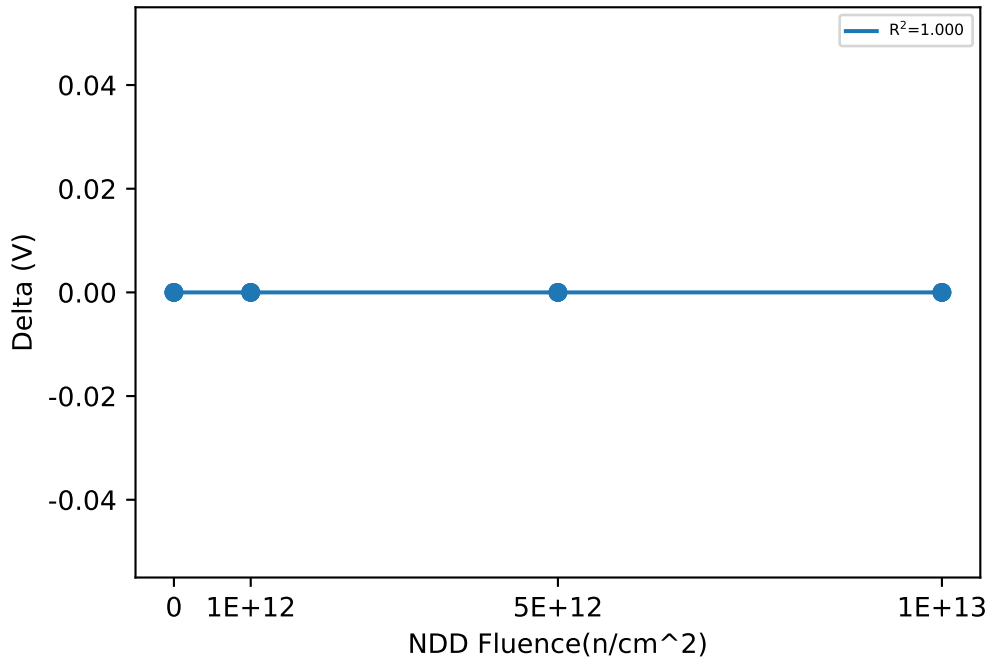
NDD vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.02	0.02	0
101	1e+12	NDD	0.02	0.02	0
102	1e+12	NDD	0.02	0.02	0
103	1e+12	NDD	0.02	0.02	0
104	5e+12	NDD	0.02	0.02	0
105	5e+12	NDD	0.02	0.02	0
106	5e+12	NDD	0.02	0.02	0
107	5e+12	NDD	0.02	0.02	0
108	1e+13	NDD	0.02	0.02	0
109	1e+13	NDD	0.02	0.02	0
110	1e+13	NDD	0.02	0.02	0
111	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

NDD vs Post - Pre Exposure Delta

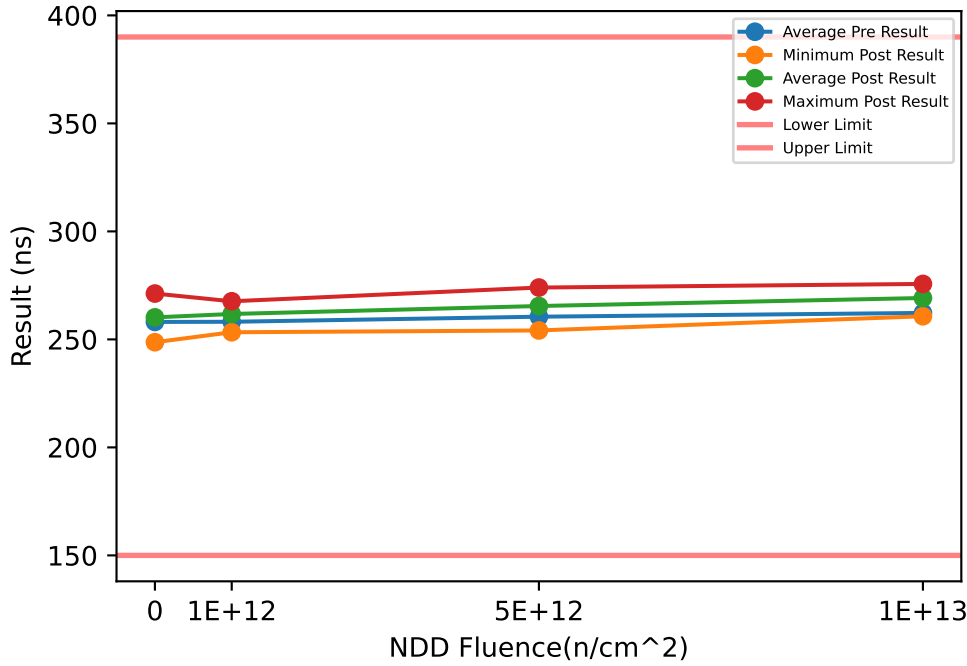


Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.3 TIMING|DELAY/SYNC1/4.5//OPEN//@SYNC1_SW_DELAY_INV_4V

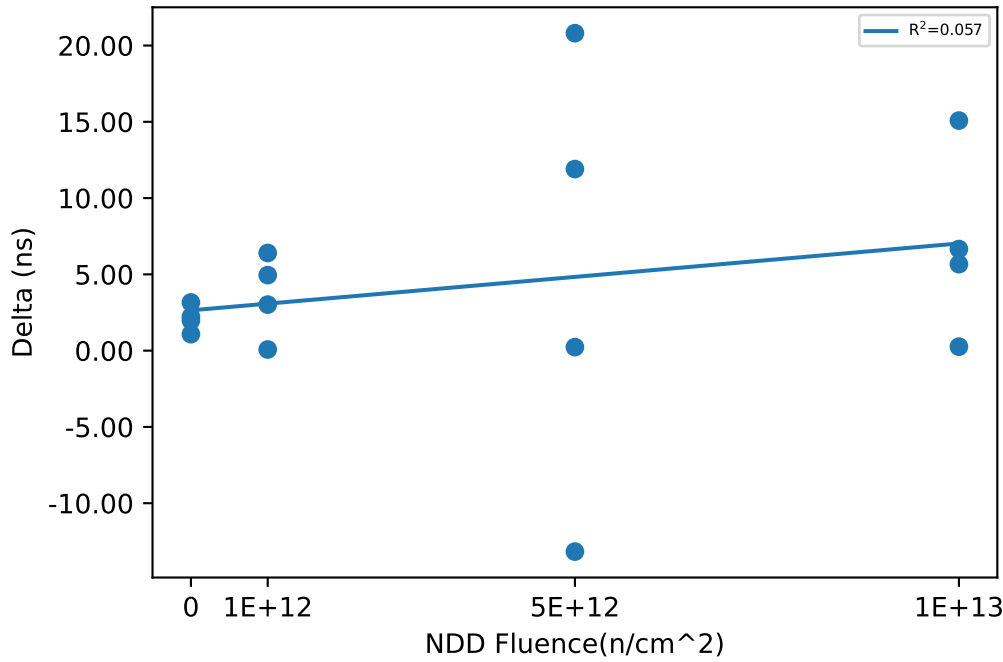
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	250.29	253.31	3.0174
101	1e+12	NDD	261.24	267.64	6.4029
102	1e+12	NDD	253.73	258.69	4.9517
103	1e+12	NDD	267.35	267.43	0.0754
104	5e+12	NDD	267.31	254.14	-13.172
105	5e+12	NDD	253.2	274	20.809
106	5e+12	NDD	268.18	268.41	0.2315
107	5e+12	NDD	253.36	265.26	11.903
108	1e+13	NDD	260.45	260.71	0.2618
109	1e+13	NDD	269.02	275.68	6.6607
110	1e+13	NDD	252.93	268.01	15.082
111	1e+13	NDD	266.6	272.27	5.6676
732	0	CORRELATION	247.61	248.7	1.0815
742	0	CORRELATION	268.07	271.23	3.1584
879	0	CORRELATION	262.69	264.91	2.2245
880	0	CORRELATION	253.97	255.94	1.9764

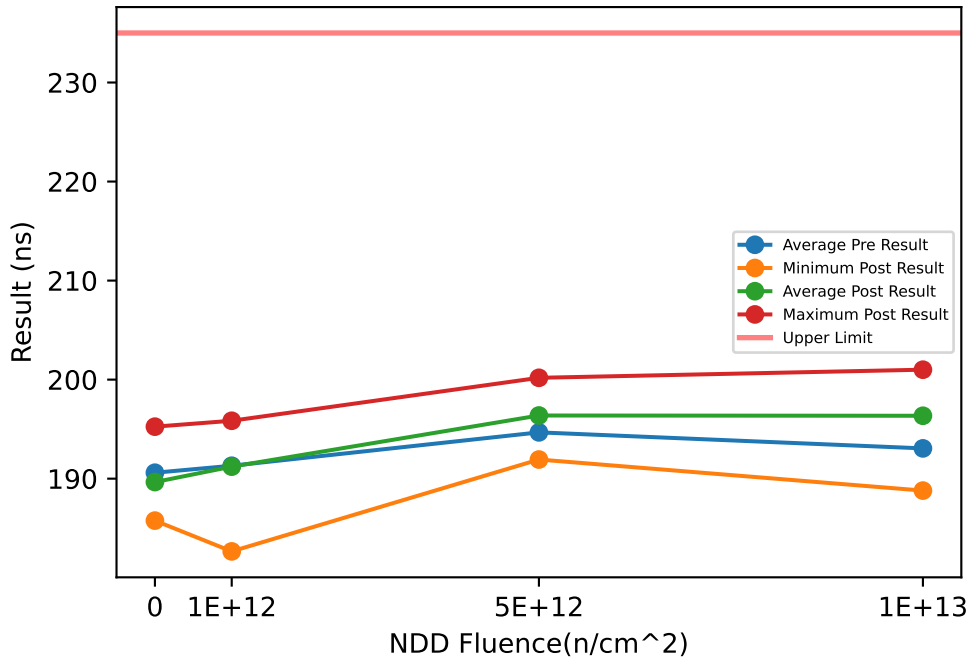
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	247.61	258.08	268.07	9.0823	248.7	260.2	271.23	9.9042	1.0815	2.1102	3.1584	0.85399
1e+12	250.29	258.16	267.35	7.6491	253.31	261.77	267.64	7.0152	0.0754	3.6118	6.4029	2.7353
5e+12	253.2	260.51	268.18	8.3611	254.14	265.45	274	8.3641	-13.172	4.9427	20.809	14.725
1e+13	252.93	262.25	269.02	7.1831	260.71	269.17	275.68	6.4497	0.2618	6.9181	15.082	6.1262

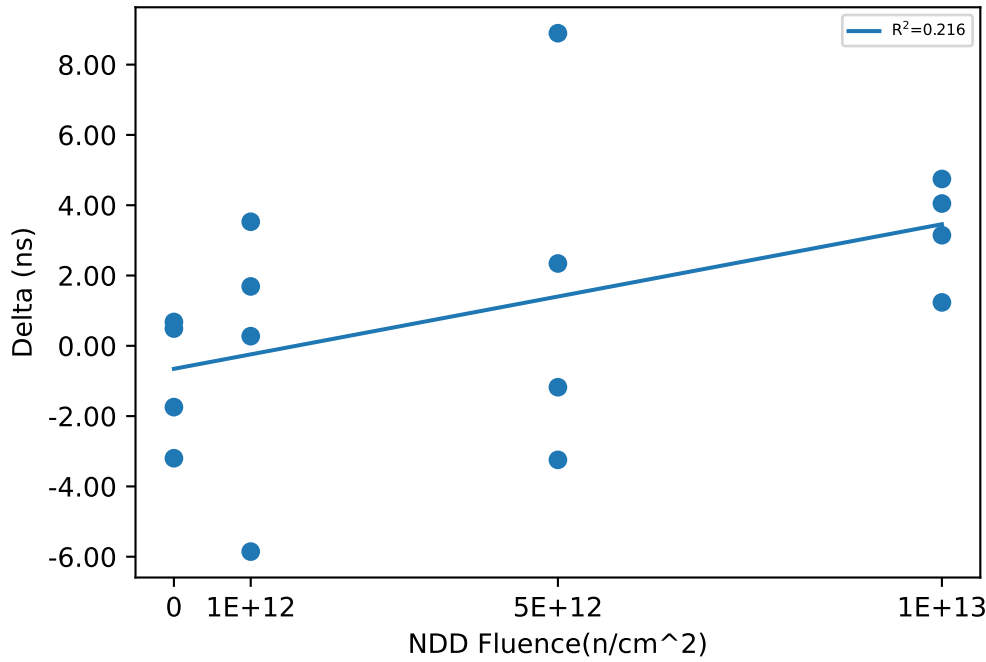
NDD vs Result Stats



Test Results (Upper Limit = 235.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	194.16	195.85	1.6892
101	1e+12	NDD	188.51	182.66	-5.8544
102	1e+12	NDD	192.09	192.36	0.2743
103	1e+12	NDD	190.46	193.99	3.5295
104	5e+12	NDD	190.49	199.39	8.8941
105	5e+12	NDD	195.18	191.93	-3.2447
106	5e+12	NDD	197.84	200.18	2.3425
107	5e+12	NDD	195.19	194.01	-1.178
108	1e+13	NDD	196.26	201	4.7468
109	1e+13	NDD	185.65	188.79	3.1464
110	1e+13	NDD	195.54	199.59	4.048
111	1e+13	NDD	194.78	196.02	1.2348
732	0	CORRELATION	194.76	195.25	0.4913
742	0	CORRELATION	187.51	185.76	-1.7439
879	0	CORRELATION	192.13	188.93	-3.1986
880	0	CORRELATION	188	188.68	0.6786

NDD vs Post - Pre Exposure Delta

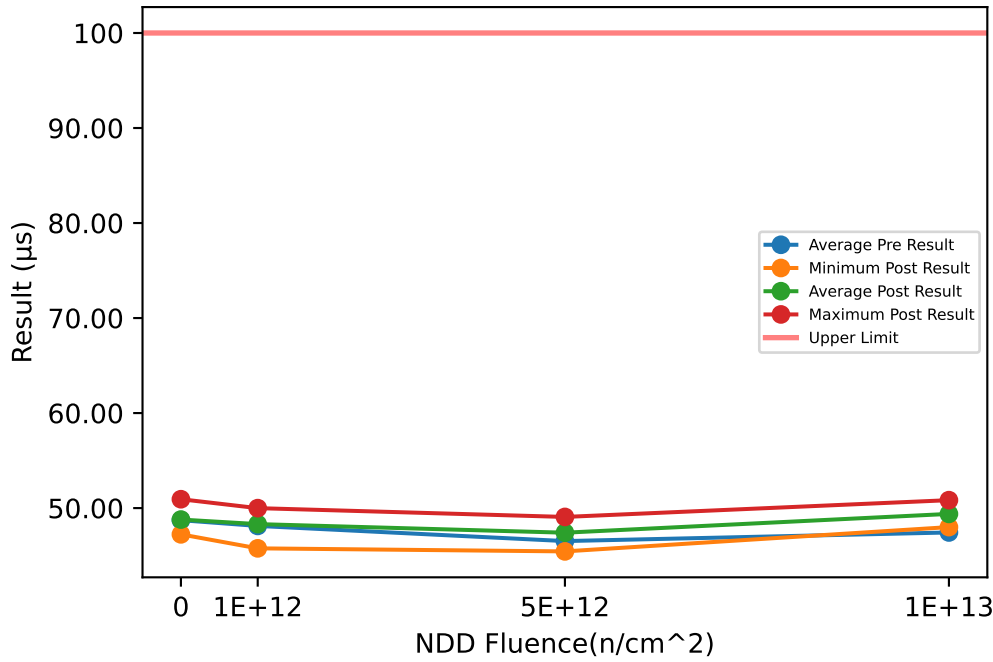


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	187.51	190.6	194.76	3.463	185.76	189.66	195.25	3.9967	-3.1986	-0.94315	0.6786	1.8633
1e+12	188.51	191.3	194.16	2.4002	182.66	191.21	195.85	5.8798	-5.8544	-0.09035	3.5295	4.0672
5e+12	190.49	194.67	197.84	3.057	191.93	196.38	200.18	4.0373	-3.2447	1.7035	8.8941	5.3198
1e+13	185.65	193.06	196.26	4.9752	188.79	196.35	201	5.4567	1.2348	3.294	4.7468	1.5211

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

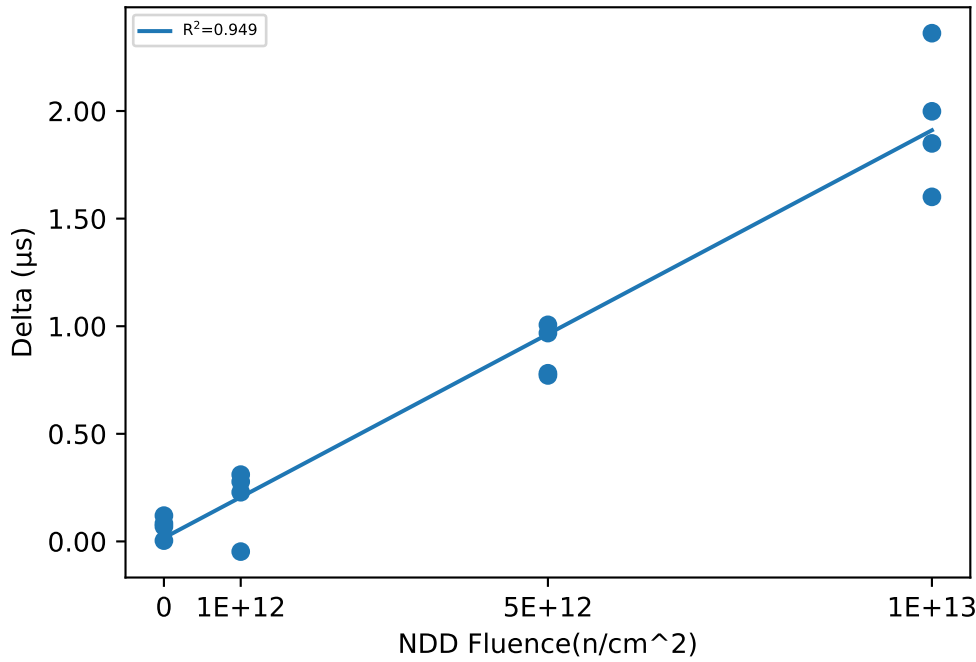
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	47.433	47.744	0.3104
101	1e+12	NDD	45.811	45.763	-0.0473
102	1e+12	NDD	49.717	49.995	0.2777
103	1e+12	NDD	49.531	49.759	0.2285
104	5e+12	NDD	45.951	46.958	1.0064
105	5e+12	NDD	48.288	49.069	0.7814
106	5e+12	NDD	47.202	48.17	0.9681
107	5e+12	NDD	44.671	45.442	0.7712
108	1e+13	NDD	46.567	48.929	2.3616
109	1e+13	NDD	46.397	47.998	1.6011
110	1e+13	NDD	48.984	50.834	1.8495
111	1e+13	NDD	47.79	49.788	1.9986
732	0	CORRELATION	50.85	50.933	0.0833
742	0	CORRELATION	48.698	48.818	0.1199
879	0	CORRELATION	47.167	47.237	0.0694
880	0	CORRELATION	48.181	48.185	0.0037

NDD vs Post - Pre Exposure Delta

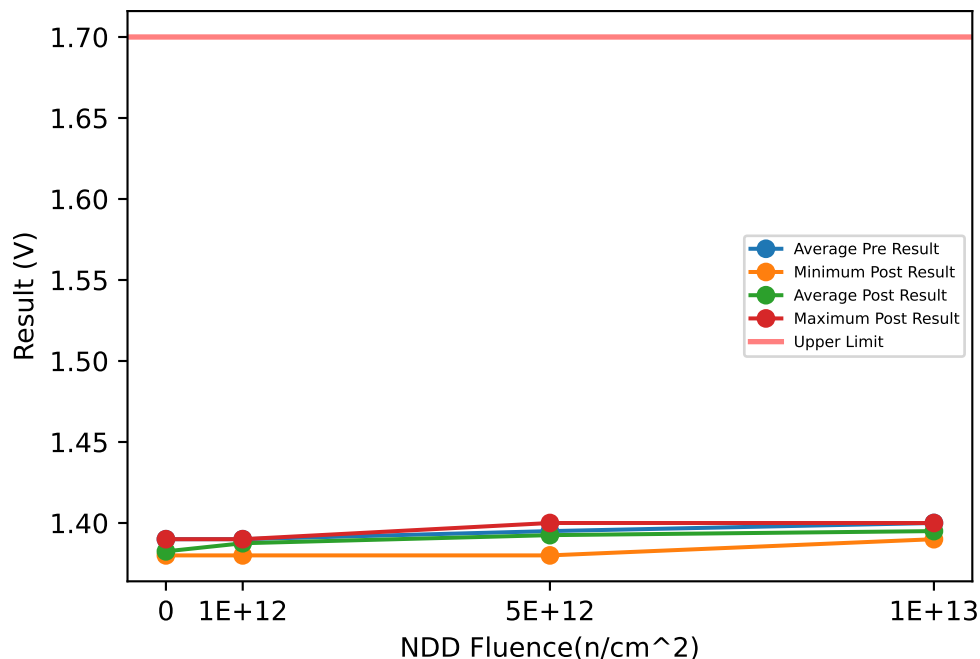


Test Statistics (µs)

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	47.167	48.724	50.85	1.5532	47.237	48.793	50.933	1.5676	0.0037	0.069075	0.1199	0.04851
1e+12	45.811	48.123	49.717	1.8569	45.763	48.315	49.995	1.9785	-0.0473	0.19232	0.3104	0.16326
5e+12	44.671	46.528	48.288	1.5634	45.442	47.41	49.069	1.5714	0.7712	0.88177	1.0064	0.12286
1e+13	46.397	47.435	48.984	1.2052	47.998	49.387	50.834	1.2102	1.6011	1.9527	2.3616	0.31811

Device Test: 24.4 THRESHOLD|RISE/SYNC1/4.5//OPEN//@SYNC1_VIH

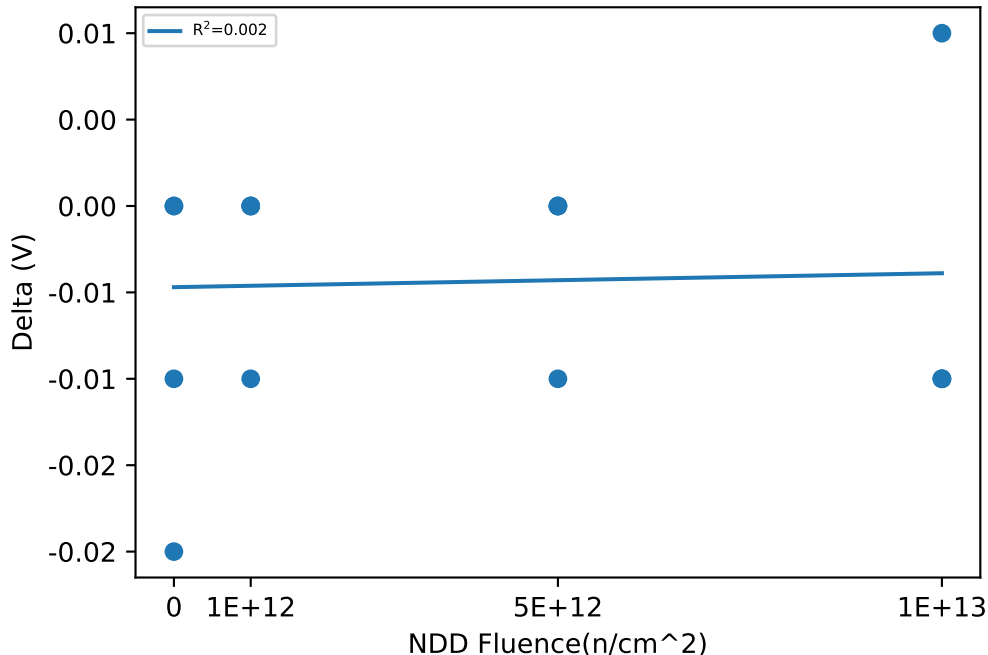
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.39	1.39	0
101	1e+12	NDD	1.39	1.39	0
102	1e+12	NDD	1.38	1.38	0
103	1e+12	NDD	1.4	1.39	-0.01
104	5e+12	NDD	1.4	1.4	0
105	5e+12	NDD	1.41	1.4	-0.01
106	5e+12	NDD	1.38	1.38	0
107	5e+12	NDD	1.39	1.39	0
108	1e+13	NDD	1.39	1.4	0.01
109	1e+13	NDD	1.4	1.39	-0.01
110	1e+13	NDD	1.4	1.39	-0.01
111	1e+13	NDD	1.41	1.4	-0.01
732	0	CORRELATION	1.39	1.38	-0.01
742	0	CORRELATION	1.4	1.38	-0.02
879	0	CORRELATION	1.39	1.39	0
880	0	CORRELATION	1.38	1.38	0

NDD vs Post - Pre Exposure Delta

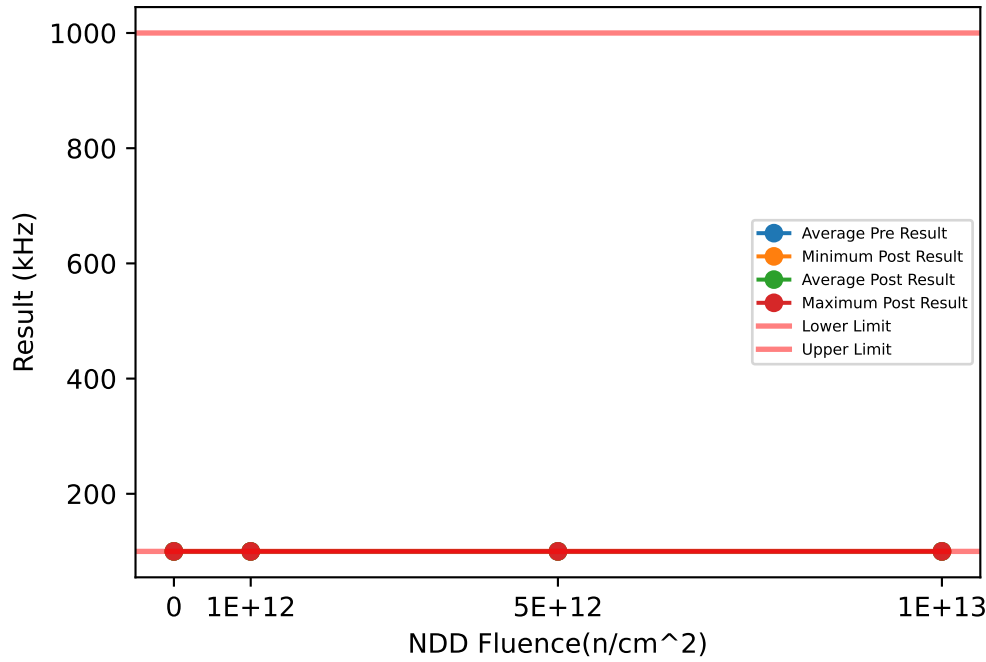


Test Statistics (V)

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	1.38	1.39	1.4	0.008165	1.38	1.3825	1.39	0.005	-0.02	-0.0075	0	0.0095743
1e+12	1.38	1.39	1.4	0.008165	1.38	1.3875	1.39	0.005	-0.01	-0.0025	0	0.005
5e+12	1.38	1.395	1.41	0.01291	1.38	1.3925	1.4	0.0095743	-0.01	-0.0025	0	0.005
1e+13	1.39	1.4	1.41	0.008165	1.39	1.395	1.4	0.0057735	-0.01	-0.005	0.01	0.01

Device Test: 24.47 FREQ|100kHz/SYNC1/5//OPEN//@SYNC_FREQ_RANGE

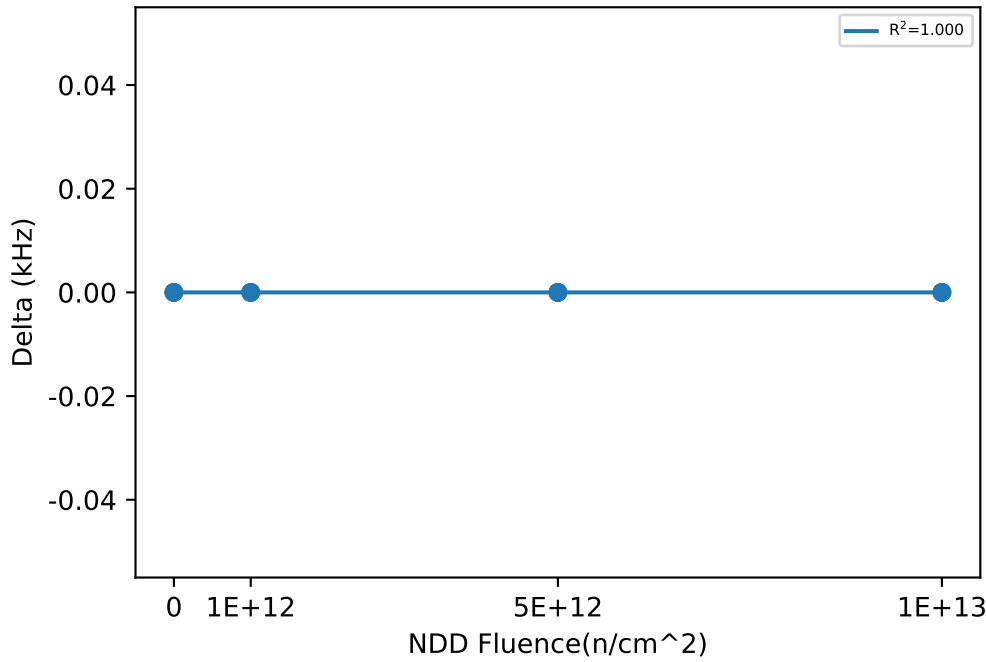
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	100	100	0
101	1e+12	NDD	100	100	0
102	1e+12	NDD	100	100	0
103	1e+12	NDD	100	100	0
104	5e+12	NDD	100	100	0
105	5e+12	NDD	100	100	0
106	5e+12	NDD	100	100	0
107	5e+12	NDD	100	100	0
108	1e+13	NDD	100	100	0
109	1e+13	NDD	100	100	0
110	1e+13	NDD	100	100	0
111	1e+13	NDD	100	100	0
732	0	CORRELATION	100	100	0
742	0	CORRELATION	100	100	0
879	0	CORRELATION	100	100	0
880	0	CORRELATION	100	100	0

NDD vs Post - Pre Exposure Delta

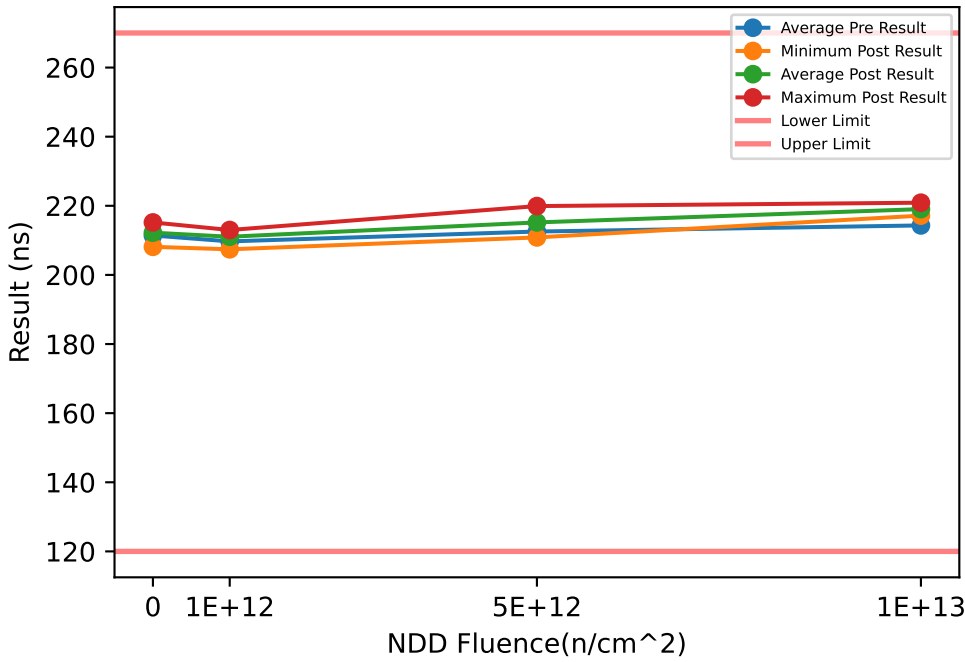


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
1e+12	100	100	100	0	100	100	100	0	0	0	0	0
5e+12	100	100	100	0	100	100	100	0	0	0	0	0
1e+13	100	100	100	0	100	100	100	0	0	0	0	0

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

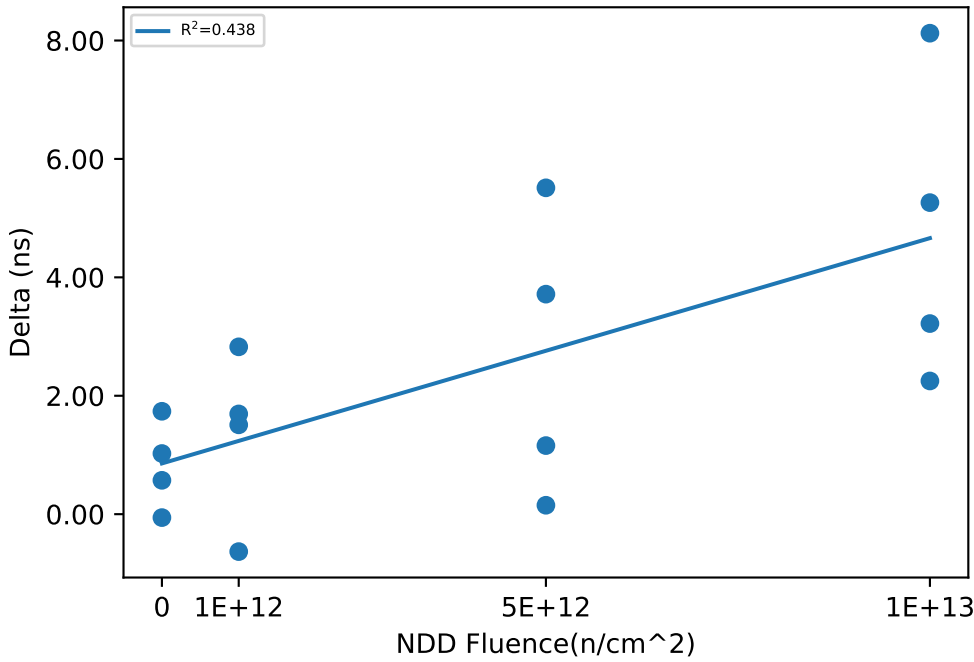
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	210.29	211.8	1.509
101	1e+12	NDD	209.16	211.99	2.8264
102	1e+12	NDD	205.72	207.41	1.693
103	1e+12	NDD	213.63	212.99	-0.6321
104	5e+12	NDD	212.89	213.04	0.1507
105	5e+12	NDD	214.41	219.92	5.5118
106	5e+12	NDD	215.78	216.94	1.1586
107	5e+12	NDD	207.13	210.85	3.7161
108	1e+13	NDD	212.77	220.9	8.1236
109	1e+13	NDD	214.66	219.92	5.2621
110	1e+13	NDD	214.91	217.16	2.2498
111	1e+13	NDD	214.95	218.17	3.2195
732	0	CORRELATION	207.1	208.13	1.0246
742	0	CORRELATION	213.38	215.11	1.7378
879	0	CORRELATION	210.52	210.46	-0.0578
880	0	CORRELATION	214.61	215.19	0.5719

NDD vs Post - Pre Exposure Delta

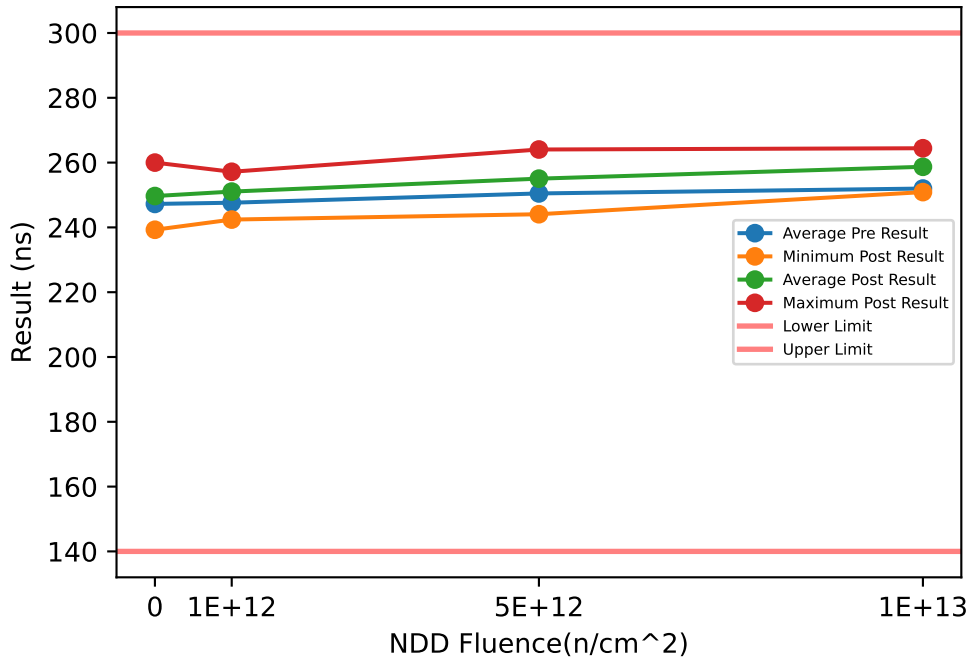


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	207.1	211.4	214.61	3.3396	208.13	212.22	215.19	3.5118	-0.0578	0.81913	1.7378	0.75637
1e+12	205.72	209.7	213.63	3.2619	207.41	211.05	212.99	2.4817	-0.6321	1.3491	2.8264	1.4435
5e+12	207.13	212.55	215.78	3.8007	210.85	215.19	219.92	4.0368	0.1507	2.6343	5.5118	2.4356
1e+13	212.77	214.32	214.95	1.0408	217.16	219.04	220.9	1.6859	2.2498	4.7138	8.1236	2.5969

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

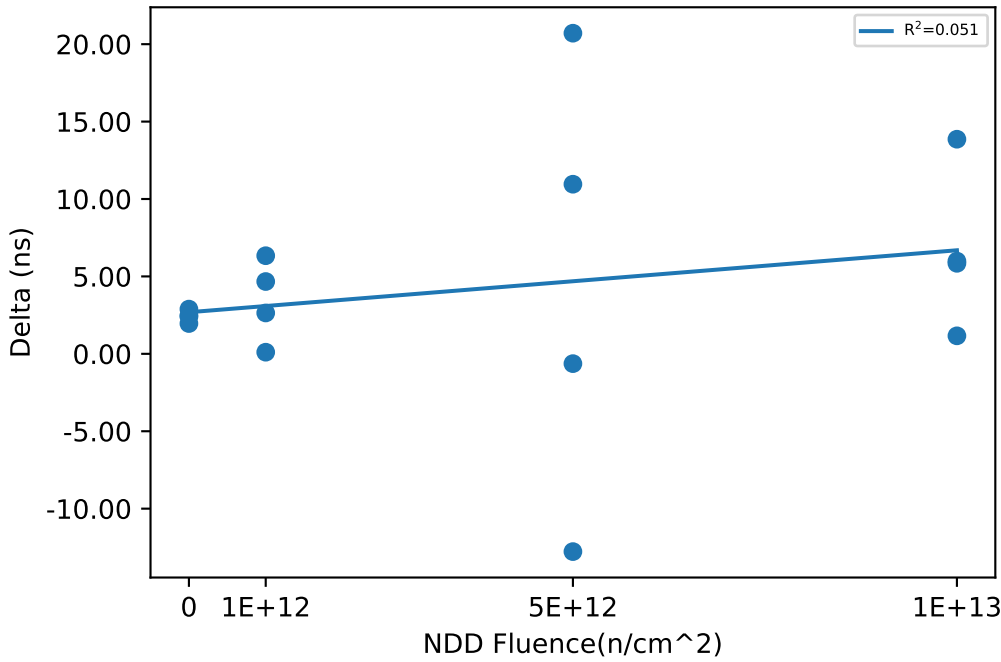
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	239.78	242.42	2.6397
101	1e+12	NDD	250.83	257.17	6.3374
102	1e+12	NDD	243.03	247.7	4.6701
103	1e+12	NDD	256.82	256.93	0.1052
104	5e+12	NDD	256.84	244.06	-12.774
105	5e+12	NDD	243.33	264.04	20.709
106	5e+12	NDD	258.01	257.38	-0.6332
107	5e+12	NDD	243.75	254.7	10.955
108	1e+13	NDD	249.73	250.89	1.1626
109	1e+13	NDD	258.58	264.43	5.8459
110	1e+13	NDD	243.59	257.45	13.862
111	1e+13	NDD	256.06	262.05	5.9889
732	0	CORRELATION	236.38	239.27	2.888
742	0	CORRELATION	257.6	260	2.4051
879	0	CORRELATION	252.09	254.57	2.4807
880	0	CORRELATION	242.91	244.87	1.9574

NDD vs Post - Pre Exposure Delta

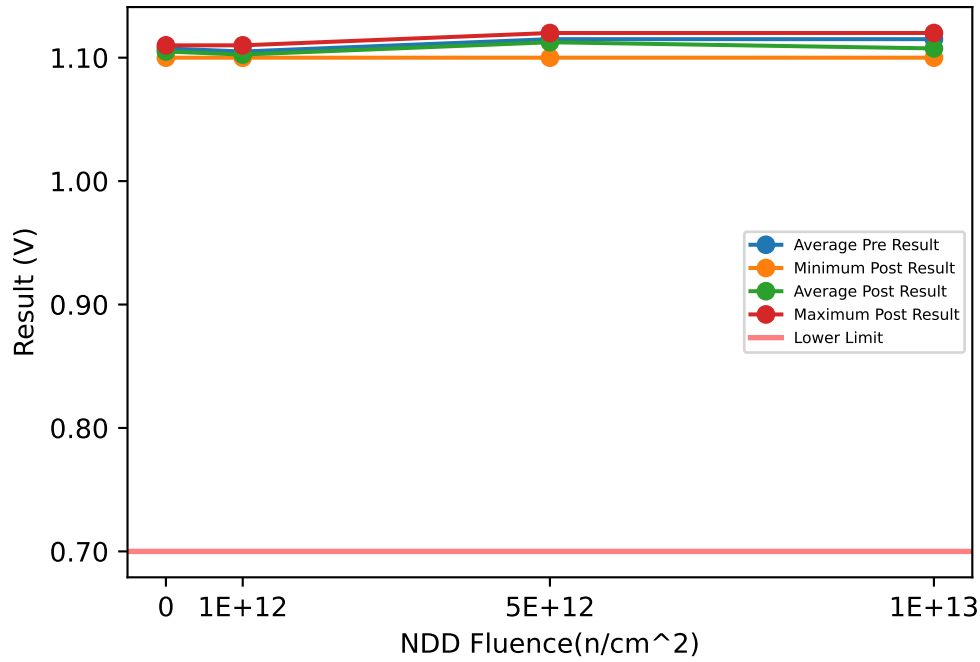


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	236.38	247.24	257.6	9.4388	239.27	249.68	260	9.3422	1.9574	2.4328	2.888	0.38135
1e+12	239.78	247.61	256.82	7.6955	242.42	251.05	257.17	7.2529	0.1052	3.4381	6.3374	2.6876
5e+12	243.33	250.48	258.01	8.0328	244.06	255.05	264.04	8.309	-12.774	4.5643	20.709	14.481
1e+13	243.59	251.99	258.58	6.7244	250.89	258.71	264.43	5.9591	1.1626	6.7147	13.862	5.2658

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

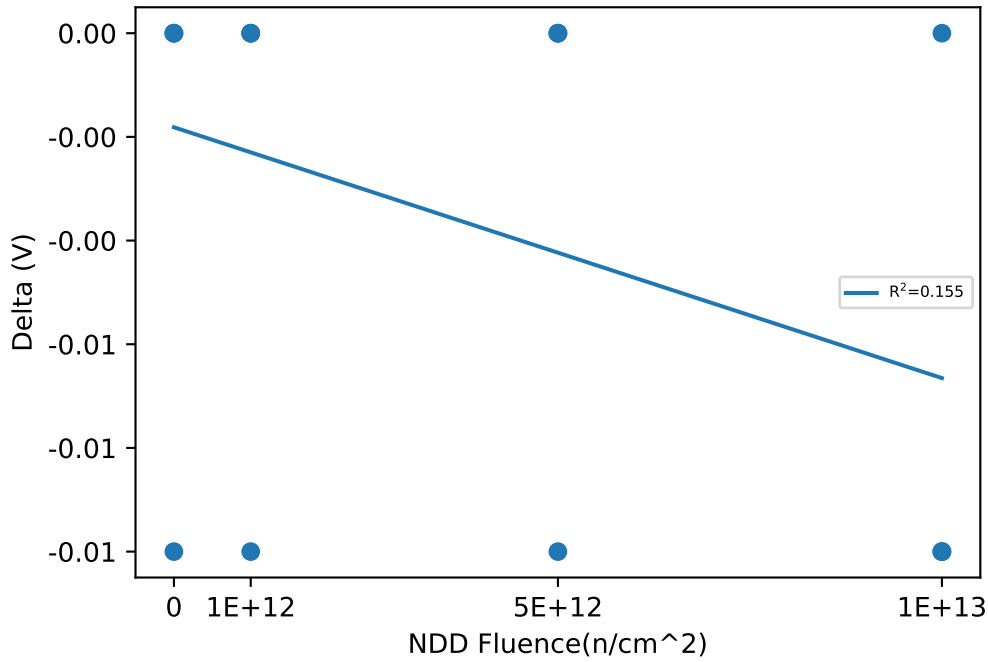
NDD vs Result Stats



Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.1	1.1	0
101	1e+12	NDD	1.1	1.1	0
102	1e+12	NDD	1.1	1.1	0
103	1e+12	NDD	1.12	1.11	-0.01
104	5e+12	NDD	1.12	1.12	0
105	5e+12	NDD	1.12	1.12	0
106	5e+12	NDD	1.1	1.1	0
107	5e+12	NDD	1.12	1.11	-0.01
108	1e+13	NDD	1.12	1.12	0
109	1e+13	NDD	1.11	1.1	-0.01
110	1e+13	NDD	1.11	1.1	-0.01
111	1e+13	NDD	1.12	1.11	-0.01
732	0	CORRELATION	1.1	1.1	0
742	0	CORRELATION	1.11	1.11	0
879	0	CORRELATION	1.12	1.11	-0.01
880	0	CORRELATION	1.1	1.1	0

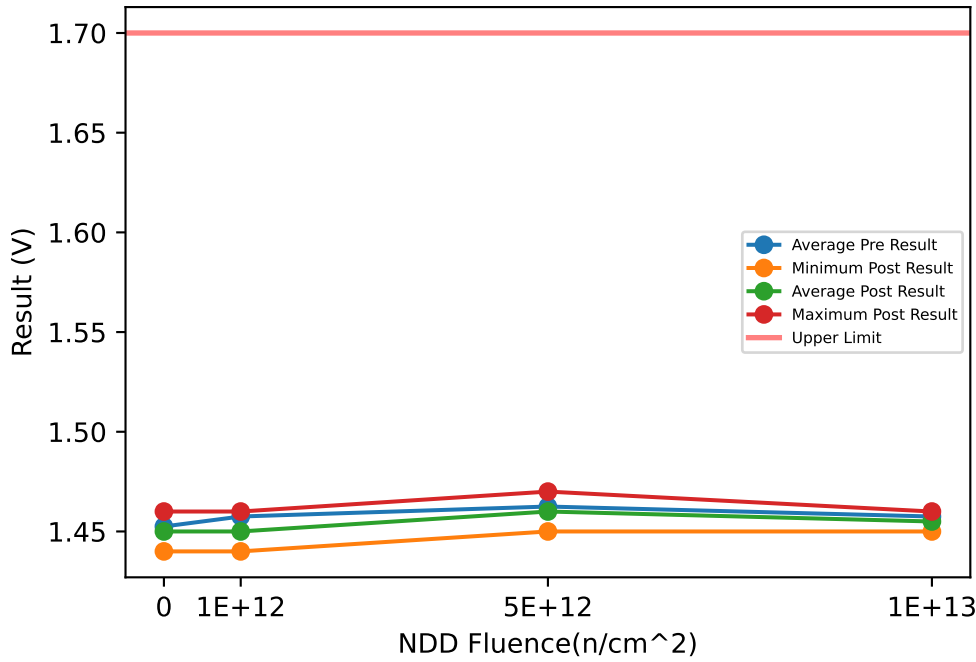
NDD vs Post - Pre Exposure Delta



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	1.1	1.1075	1.12	0.0095743	1.1	1.105	1.11	0.0057735	-0.01	-0.0025	0	0.005
1e+12	1.1	1.105	1.12	0.01	1.1	1.1025	1.11	0.005	-0.01	-0.0025	0	0.005
5e+12	1.1	1.115	1.12	0.01	1.1	1.1125	1.12	0.0095743	-0.01	-0.0025	0	0.005
1e+13	1.11	1.115	1.12	0.0057735	1.1	1.1075	1.12	0.0095743	-0.01	-0.0075	0	0.005

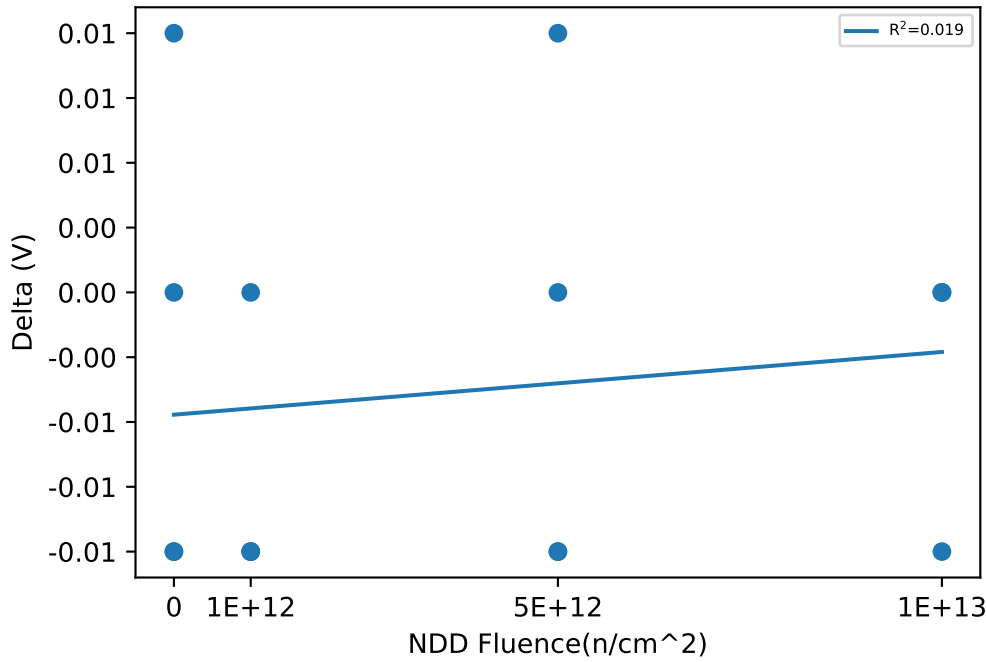
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.46	1.45	-0.01
101	1e+12	NDD	1.46	1.45	-0.01
102	1e+12	NDD	1.45	1.44	-0.01
103	1e+12	NDD	1.46	1.46	0
104	5e+12	NDD	1.47	1.46	-0.01
105	5e+12	NDD	1.46	1.47	0.01
106	5e+12	NDD	1.45	1.45	0
107	5e+12	NDD	1.47	1.46	-0.01
108	1e+13	NDD	1.47	1.46	-0.01
109	1e+13	NDD	1.45	1.45	0
110	1e+13	NDD	1.45	1.45	0
111	1e+13	NDD	1.46	1.46	0
732	0	CORRELATION	1.44	1.44	0
742	0	CORRELATION	1.44	1.45	0.01
879	0	CORRELATION	1.47	1.46	-0.01
880	0	CORRELATION	1.46	1.45	-0.01

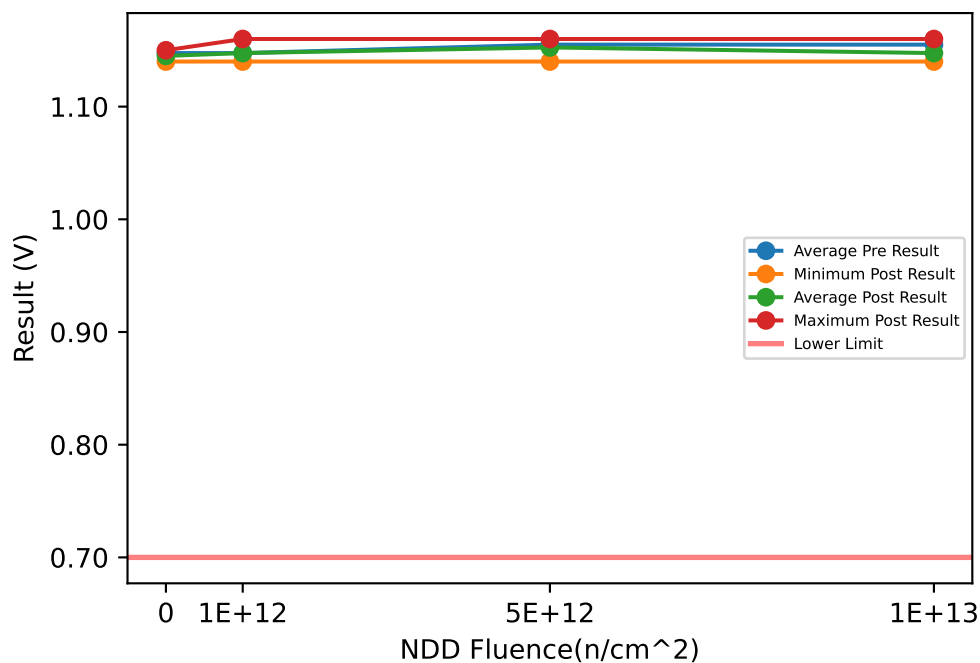
NDD vs Post - Pre Exposure Delta



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	1.44	1.4525	1.47	0.015	1.44	1.45	1.46	0.008165	-0.01	-0.0025	0.01	0.0095743
1e+12	1.45	1.4575	1.46	0.005	1.44	1.45	1.46	0.008165	-0.01	-0.0075	0	0.005
5e+12	1.45	1.4625	1.47	0.0095743	1.45	1.46	1.47	0.008165	-0.01	-0.0025	0.01	0.0095743
1e+13	1.45	1.4575	1.47	0.0095743	1.45	1.455	1.46	0.0057735	-0.01	-0.0025	0	0.005

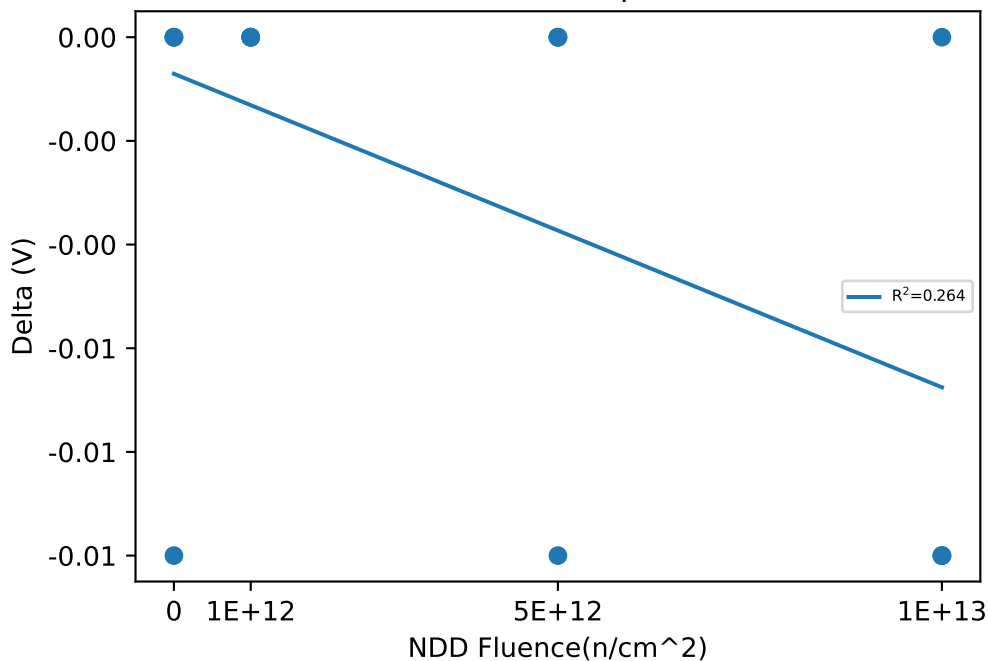
NDD vs Result Stats



Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.14	1.14	0
101	1e+12	NDD	1.15	1.15	0
102	1e+12	NDD	1.14	1.14	0
103	1e+12	NDD	1.16	1.16	0
104	5e+12	NDD	1.16	1.16	0
105	5e+12	NDD	1.16	1.16	0
106	5e+12	NDD	1.14	1.14	0
107	5e+12	NDD	1.16	1.15	-0.01
108	1e+13	NDD	1.16	1.16	0
109	1e+13	NDD	1.15	1.14	-0.01
110	1e+13	NDD	1.15	1.14	-0.01
111	1e+13	NDD	1.16	1.15	-0.01
732	0	CORRELATION	1.14	1.14	0
742	0	CORRELATION	1.15	1.15	0
879	0	CORRELATION	1.16	1.15	-0.01
880	0	CORRELATION	1.14	1.14	0

NDD vs Post - Pre Exposure Delta

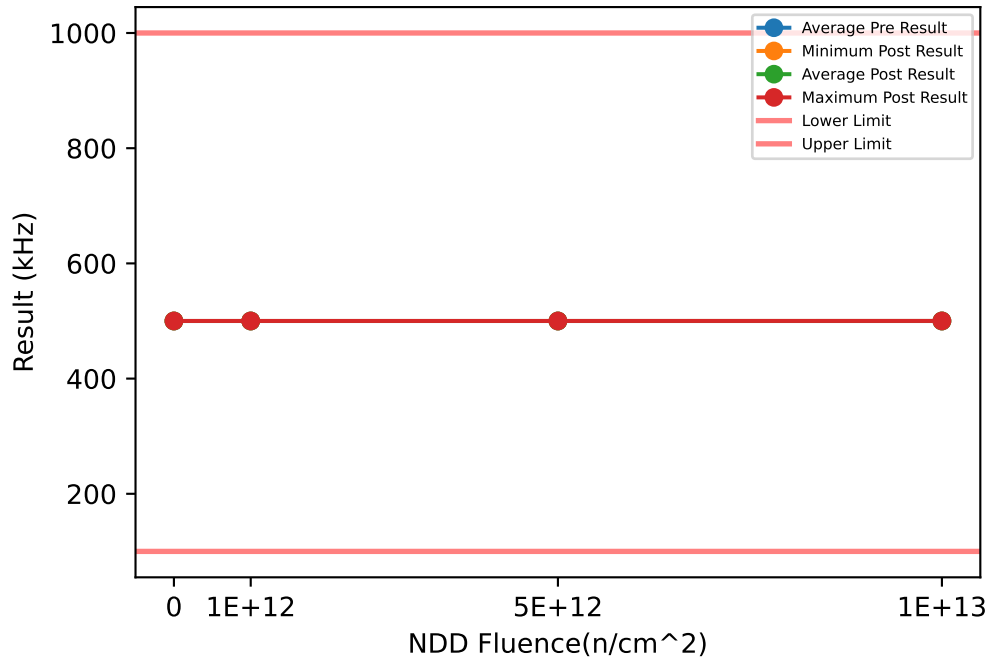


Test Statistics (V)

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	1.14	1.1475	1.16	0.0095743	1.14	1.145	1.15	0.0057735	-0.01	-0.0025	0	0.005
1e+12	1.14	1.1475	1.16	0.0095743	1.14	1.1475	1.16	0.0095743	0	0	0	0
5e+12	1.14	1.155	1.16	0.01	1.14	1.1525	1.16	0.0095743	-0.01	-0.0025	0	0.005
1e+13	1.15	1.155	1.16	0.0057735	1.14	1.1475	1.16	0.0095743	-0.01	-0.0075	0	0.005

Device Test: 24.54 FREQ|500kHz/SYNC1/5//OPEN//@SYNC_FREQ_RANGE

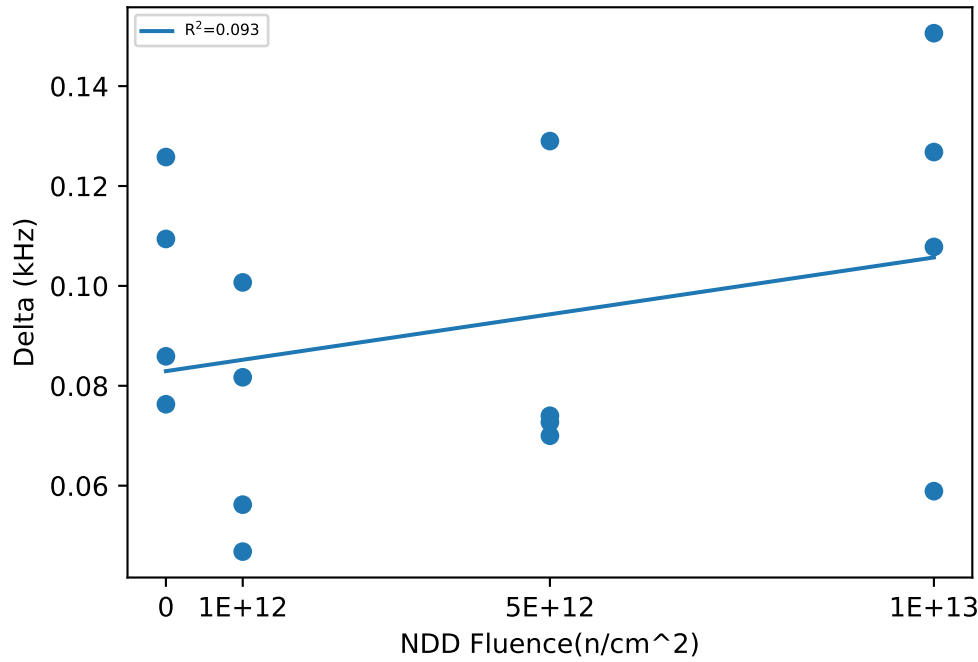
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	499.93	500.01	0.0817
101	1e+12	NDD	499.96	500.06	0.1007
102	1e+12	NDD	499.98	500.04	0.0562
103	1e+12	NDD	499.96	500.01	0.0468
104	5e+12	NDD	499.94	500.02	0.074
105	5e+12	NDD	499.94	500.06	0.129
106	5e+12	NDD	499.96	500.03	0.0727
107	5e+12	NDD	499.97	500.04	0.07
108	1e+13	NDD	499.97	500.03	0.0589
109	1e+13	NDD	499.94	500.05	0.1078
110	1e+13	NDD	499.92	500.05	0.1268
111	1e+13	NDD	499.95	500.1	0.1506
732	0	CORRELATION	499.92	500.03	0.1094
742	0	CORRELATION	499.94	500.07	0.1258
879	0	CORRELATION	499.96	500.03	0.0763
880	0	CORRELATION	499.93	500.02	0.0859

NDD vs Post - Pre Exposure Delta

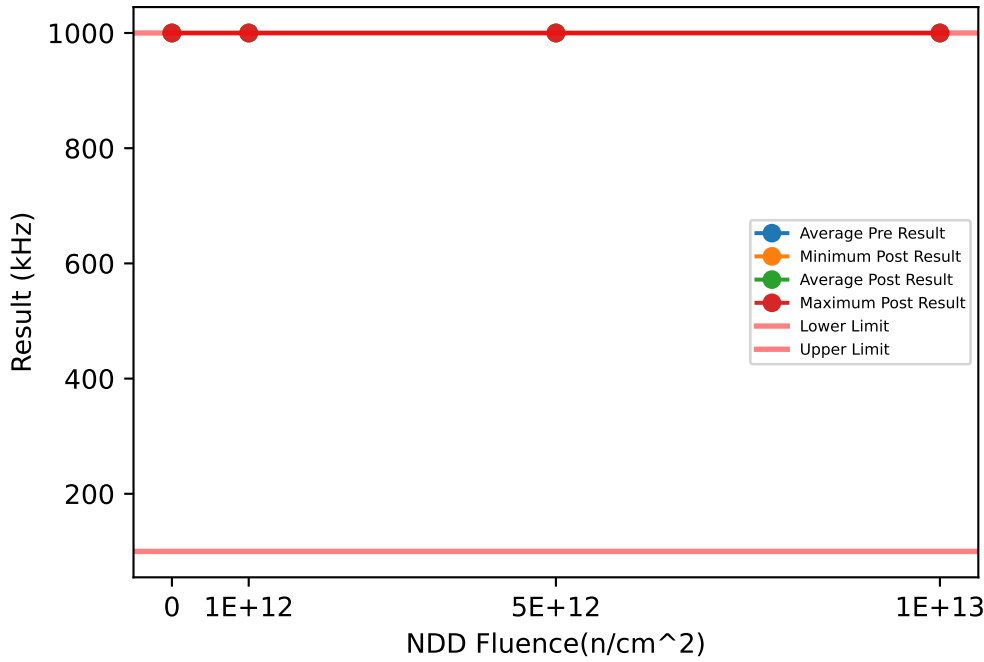


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.92	499.94	499.96	0.014983	500.02	500.04	500.07	0.021066	0.0763	0.09935	0.1258	0.022456
1e+12	499.93	499.96	499.98	0.021696	500.01	500.03	500.06	0.024168	0.0468	0.07135	0.1007	0.0245
5e+12	499.94	499.95	499.97	0.015636	500.02	500.04	500.06	0.019997	0.07	0.086425	0.129	0.028432
1e+13	499.92	499.95	499.97	0.021884	500.03	500.06	500.1	0.030694	0.0589	0.11102	0.1506	0.038912

Device Test: 24.55 FREQ|1000kHz/SYNC1/5//OPEN//@SYNC_FREQ_RANGE

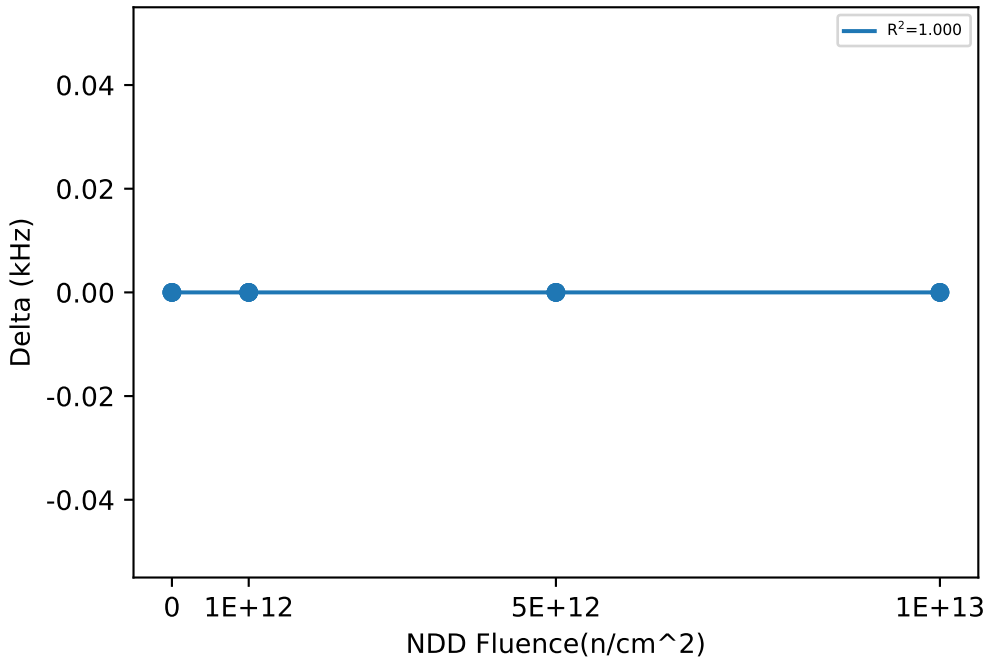
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1000	1000	0
101	1e+12	NDD	1000	1000	0
102	1e+12	NDD	1000	1000	0
103	1e+12	NDD	1000	1000	0
104	5e+12	NDD	1000	1000	0
105	5e+12	NDD	1000	1000	0
106	5e+12	NDD	1000	1000	0
107	5e+12	NDD	1000	1000	0
108	1e+13	NDD	1000	1000	0
109	1e+13	NDD	1000	1000	0
110	1e+13	NDD	1000	1000	0
111	1e+13	NDD	1000	1000	0
732	0	CORRELATION	1000	1000	0
742	0	CORRELATION	1000	1000	0
879	0	CORRELATION	1000	1000	0
880	0	CORRELATION	1000	1000	0

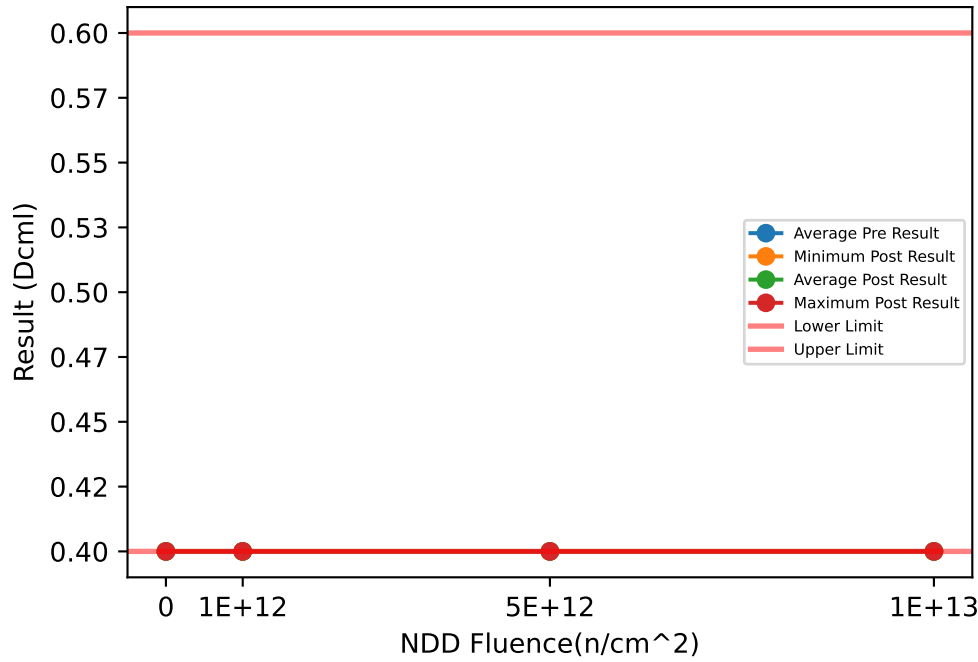
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
5e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+13	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

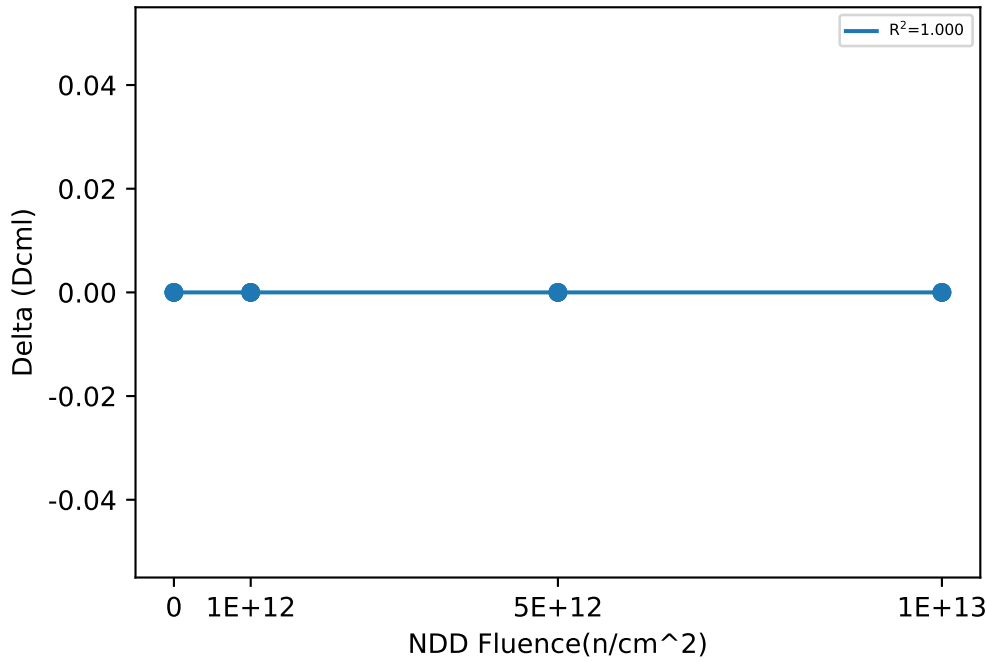
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4	0.4	0
101	1e+12	NDD	0.4	0.4	0
102	1e+12	NDD	0.4	0.4	0
103	1e+12	NDD	0.4	0.4	0
104	5e+12	NDD	0.4	0.4	0
105	5e+12	NDD	0.4	0.4	0
106	5e+12	NDD	0.4	0.4	0
107	5e+12	NDD	0.4	0.4	0
108	1e+13	NDD	0.4	0.4	0
109	1e+13	NDD	0.4	0.4	0
110	1e+13	NDD	0.4	0.4	0
111	1e+13	NDD	0.4	0.4	0
732	0	CORRELATION	0.4	0.4	0
742	0	CORRELATION	0.4	0.4	0
879	0	CORRELATION	0.4	0.4	0
880	0	CORRELATION	0.4	0.4	0

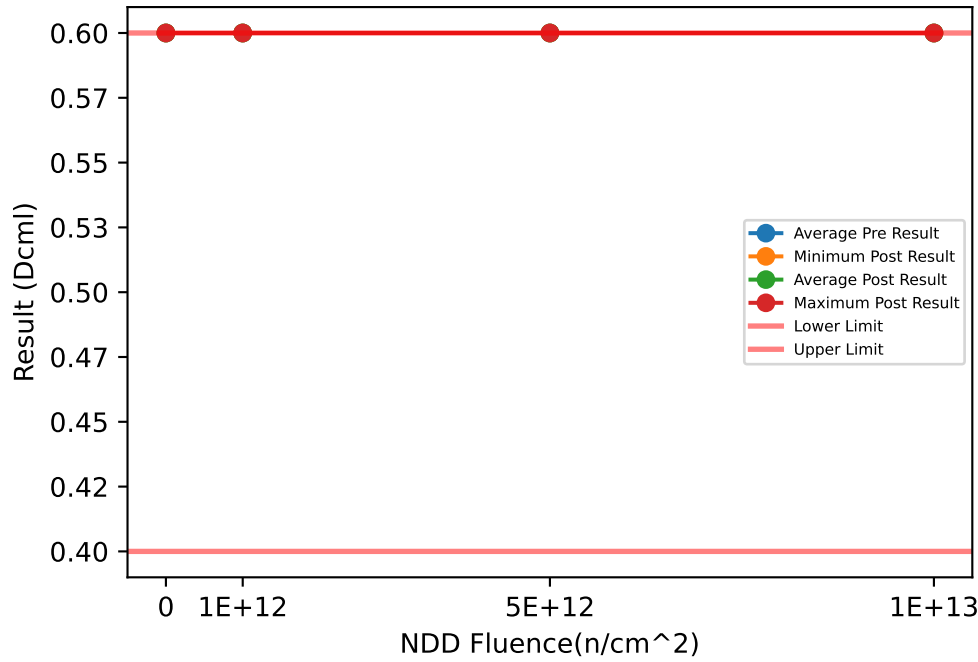
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
5e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+13	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

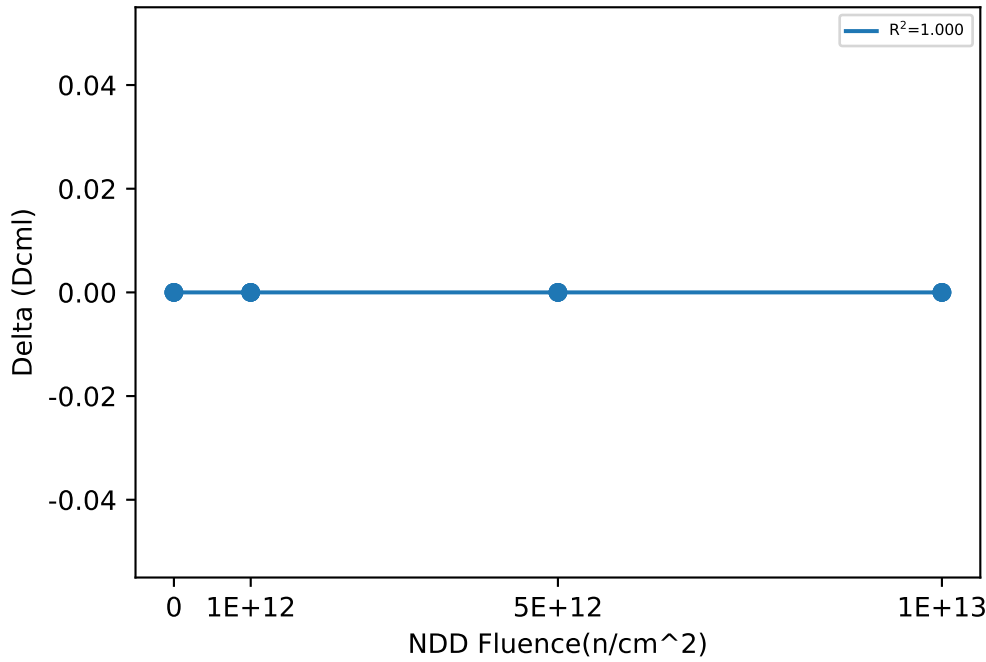
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.6	0.6	0
101	1e+12	NDD	0.6	0.6	0
102	1e+12	NDD	0.6	0.6	0
103	1e+12	NDD	0.6	0.6	0
104	5e+12	NDD	0.6	0.6	0
105	5e+12	NDD	0.6	0.6	0
106	5e+12	NDD	0.6	0.6	0
107	5e+12	NDD	0.6	0.6	0
108	1e+13	NDD	0.6	0.6	0
109	1e+13	NDD	0.6	0.6	0
110	1e+13	NDD	0.6	0.6	0
111	1e+13	NDD	0.6	0.6	0
732	0	CORRELATION	0.6	0.6	0
742	0	CORRELATION	0.6	0.6	0
879	0	CORRELATION	0.6	0.6	0
880	0	CORRELATION	0.6	0.6	0

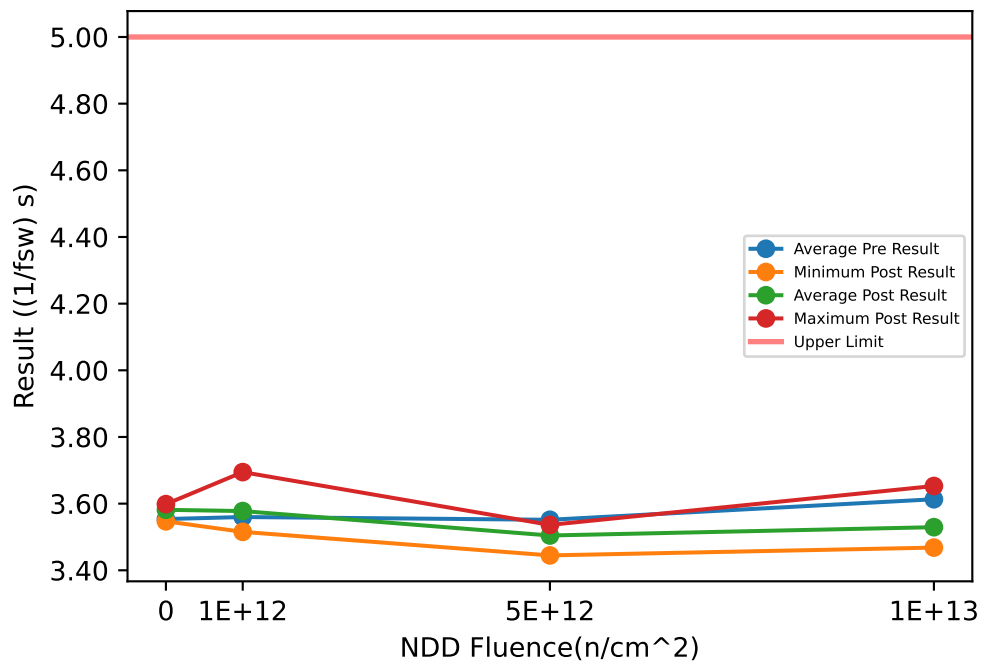
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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

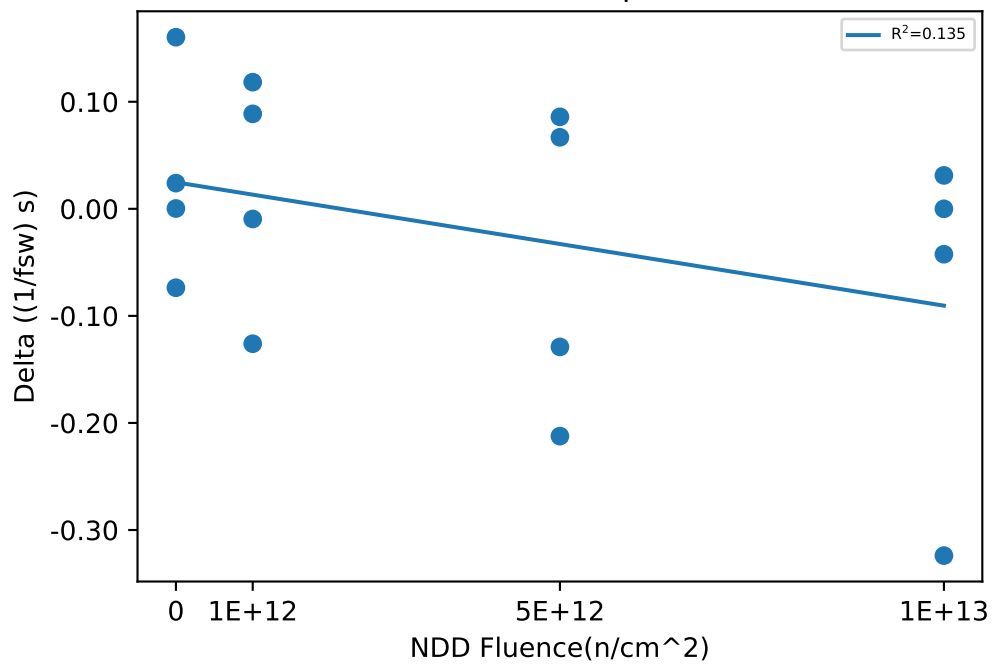
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	3.5248	3.5153	-0.0095
101	1e+12	NDD	3.4771	3.5658	0.0887
102	1e+12	NDD	3.5763	3.6946	0.1183
103	1e+12	NDD	3.6611	3.5351	-0.126
104	5e+12	NDD	3.4317	3.5176	0.0859
105	5e+12	NDD	3.6652	3.5362	-0.129
106	5e+12	NDD	3.657	3.4447	-0.2123
107	5e+12	NDD	3.4523	3.5191	0.0668
108	1e+13	NDD	3.792	3.4681	-0.3239
109	1e+13	NDD	3.5174	3.475	-0.0424
110	1e+13	NDD	3.6217	3.6529	0.0312
111	1e+13	NDD	3.5214	3.5214	0
732	0	CORRELATION	3.5466	3.5469	0.0003
742	0	CORRELATION	3.5605	3.5845	0.024
879	0	CORRELATION	3.6722	3.5985	-0.0737
880	0	CORRELATION	3.4357	3.596	0.1603

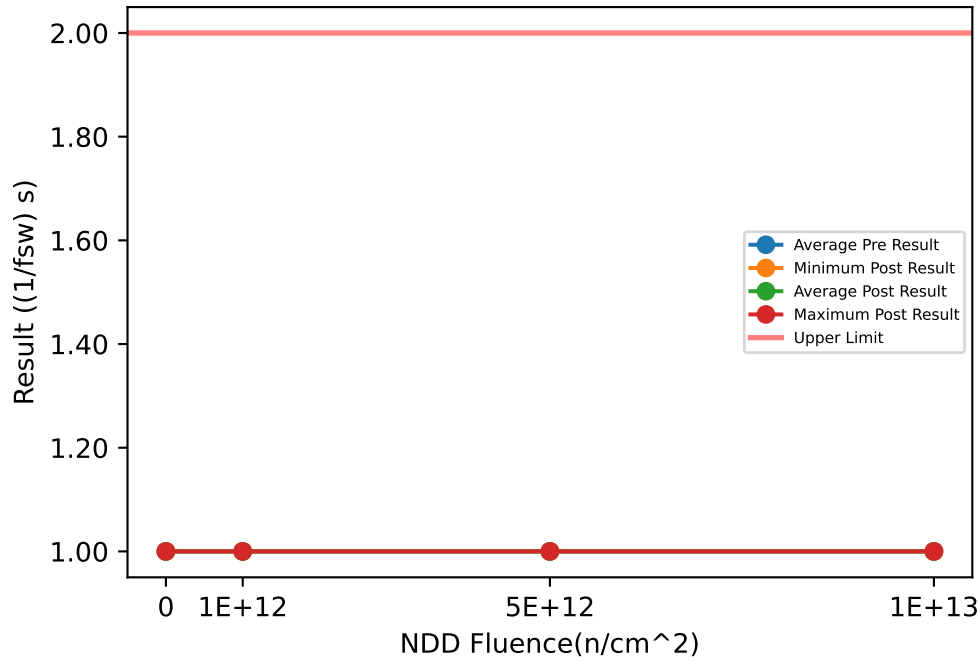
NDD vs Post - Pre Exposure Delta



Test Statistics ((1/fsw) 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	3.4357	3.5537	3.6722	0.096718	3.5469	3.5815	3.5985	0.023843	-0.0737	0.027725	0.1603	0.097689
1e+12	3.4771	3.5598	3.6611	0.078736	3.5153	3.5777	3.6946	0.080655	-0.126	0.017875	0.1183	0.11038
5e+12	3.4317	3.5516	3.6652	0.12682	3.4447	3.5044	3.5362	0.040684	-0.2123	-0.04715	0.0859	0.14681
1e+13	3.5174	3.6131	3.792	0.12864	3.4681	3.5293	3.6529	0.0857	-0.3239	-0.083775	0.0312	0.1629

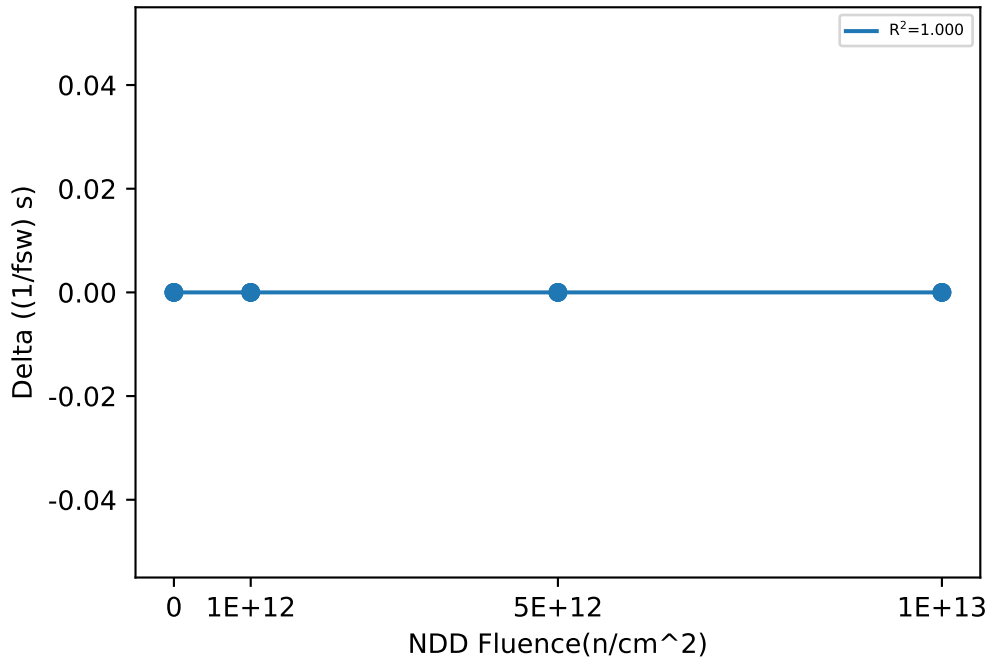
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1	1	0
101	1e+12	NDD	1	1	0
102	1e+12	NDD	1	1	0
103	1e+12	NDD	1	1	0
104	5e+12	NDD	1	1	0
105	5e+12	NDD	1	1	0
106	5e+12	NDD	1	1	0
107	5e+12	NDD	1	1	0
108	1e+13	NDD	1	1	0
109	1e+13	NDD	1	1	0
110	1e+13	NDD	1	1	0
111	1e+13	NDD	1	1	0
732	0	CORRELATION	1	1	0
742	0	CORRELATION	1	1	0
879	0	CORRELATION	1	1	0
880	0	CORRELATION	1	1	0

NDD vs Post - Pre Exposure Delta

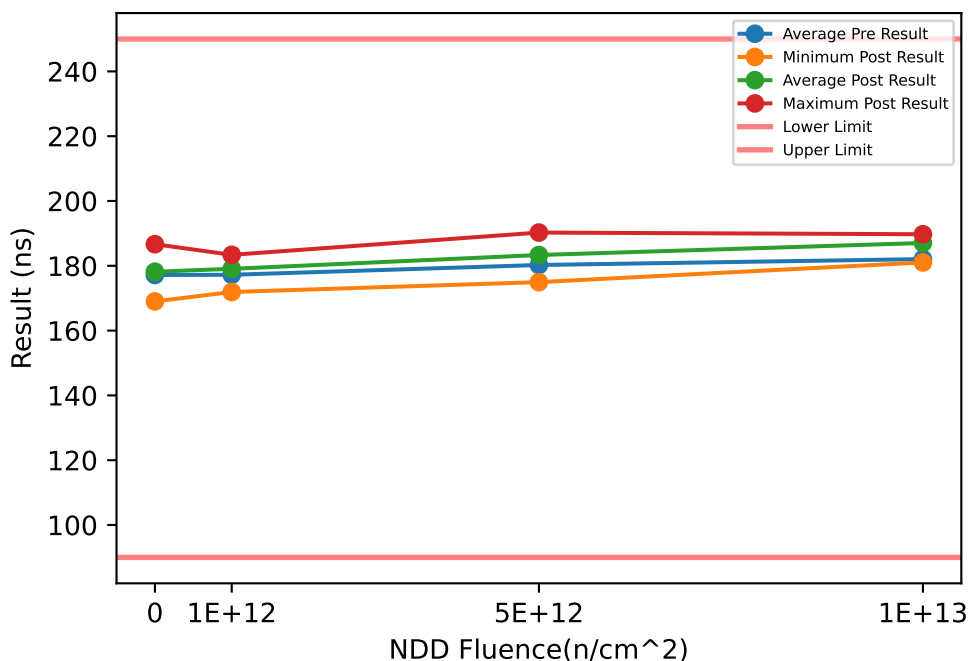


Test Statistics ((1/fsw) s)

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	1	1	0	1	1	1	0	0	0	0	0
1e+12	1	1	1	0	1	1	1	0	0	0	0	0
5e+12	1	1	1	0	1	1	1	0	0	0	0	0
1e+13	1	1	1	0	1	1	1	0	0	0	0	0

Device Test: 24.62 TIMING|DELAY/SYNC1/5//511k/4011/@SYNC1_SW_DELAY_OUTPUT

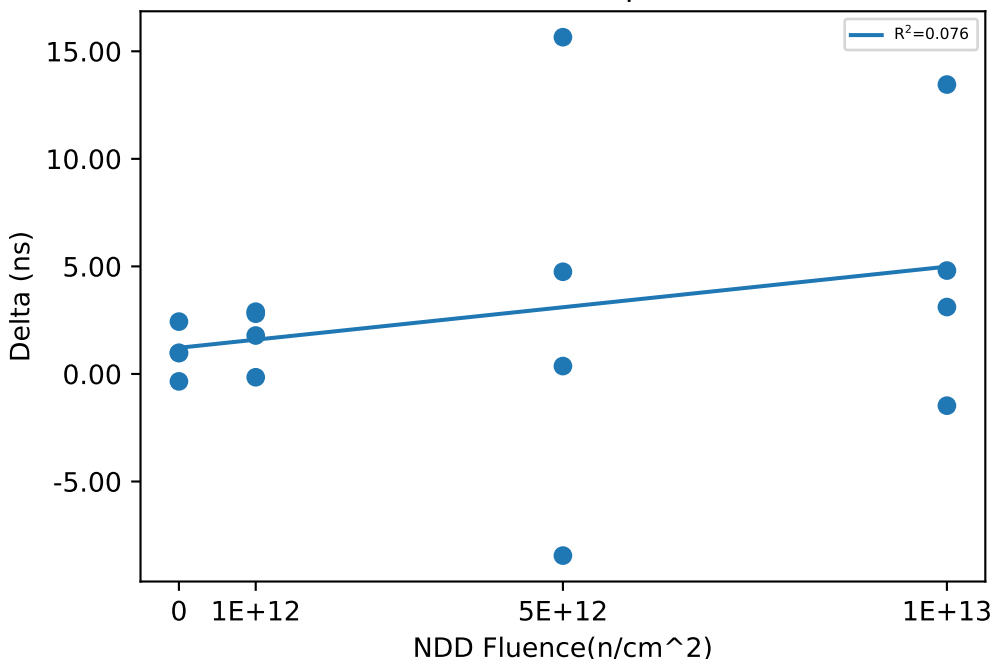
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	170.13	171.92	1.7871
101	1e+12	NDD	179.91	182.71	2.8006
102	1e+12	NDD	175.33	178.23	2.8956
103	1e+12	NDD	183.54	183.38	-0.1534
104	5e+12	NDD	183.4	174.96	-8.4443
105	5e+12	NDD	174.6	190.26	15.655
106	5e+12	NDD	186.59	186.96	0.3663
107	5e+12	NDD	176.39	181.14	4.7506
108	1e+13	NDD	182.51	181.03	-1.474
109	1e+13	NDD	184.93	189.74	4.8066
110	1e+13	NDD	175.15	188.6	13.454
111	1e+13	NDD	185.68	188.79	3.1105
732	0	CORRELATION	168.04	169.01	0.9691
742	0	CORRELATION	184.23	186.67	2.4329
879	0	CORRELATION	181.6	181.25	-0.3458
880	0	CORRELATION	174.8	175.78	0.9828

NDD vs Post - Pre Exposure Delta

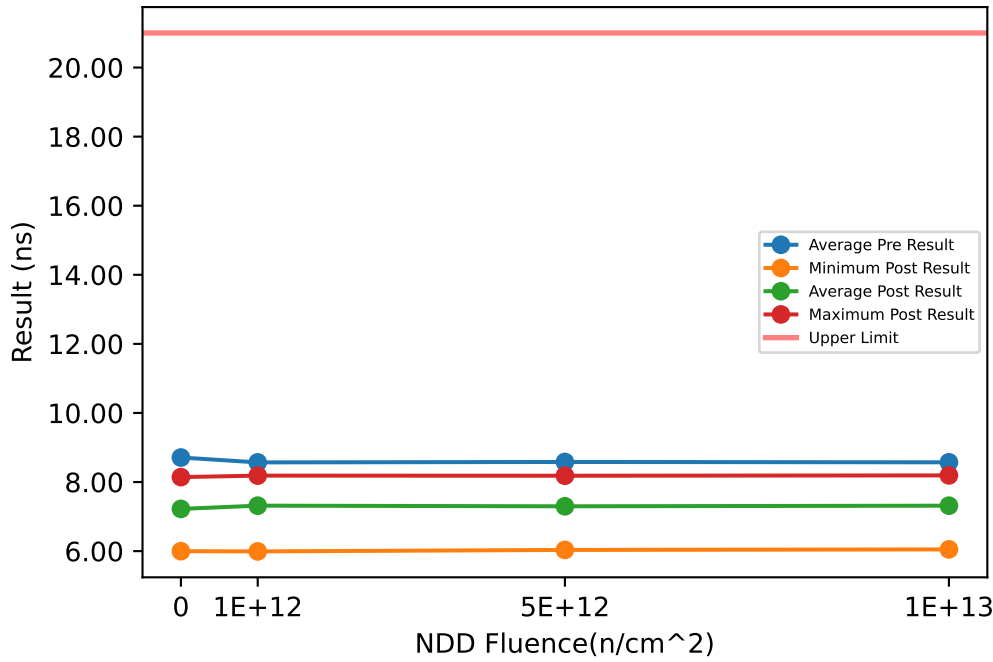


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	168.04	177.17	184.23	7.2681	169.01	178.18	186.67	7.5566	-0.3458	1.0097	2.4329	1.1351
1e+12	170.13	177.23	183.54	5.8026	171.92	179.06	183.38	5.2846	-0.1534	1.8325	2.8956	1.4158
5e+12	174.6	180.25	186.59	5.6865	174.96	183.33	190.26	6.7334	-8.4443	3.0819	15.655	10.018
1e+13	175.15	182.07	185.68	4.8066	181.03	187.04	189.74	4.0357	-1.474	4.9742	13.454	6.2446

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

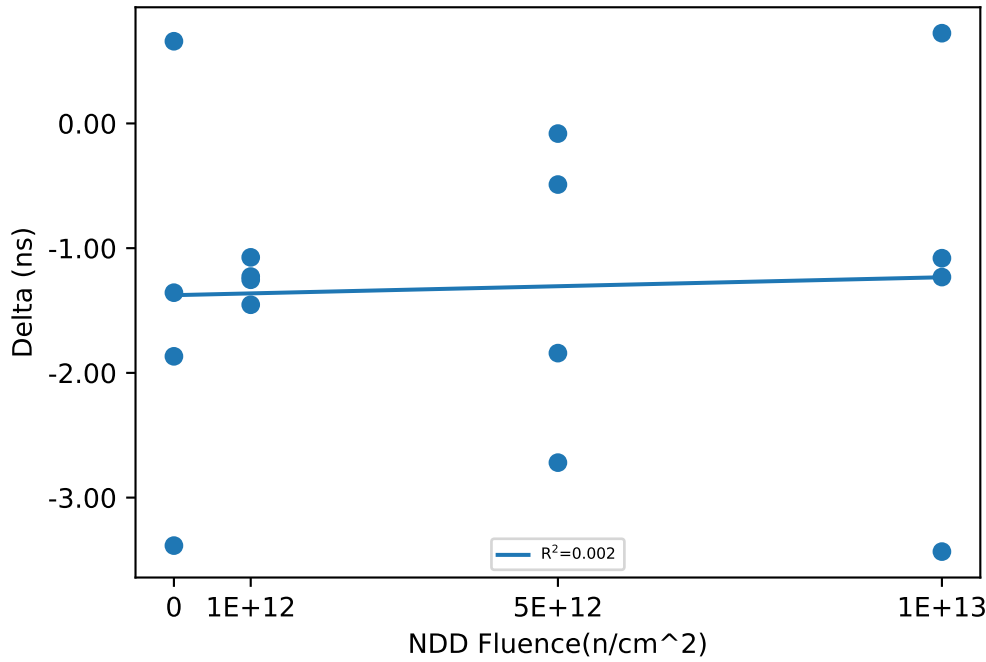
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	8.6866	7.4589	-1.2277
101	1e+12	NDD	9.4397	8.1863	-1.2534
102	1e+12	NDD	8.702	7.6283	-1.0737
103	1e+12	NDD	7.446	5.9923	-1.4537
104	5e+12	NDD	7.496	7.4147	-0.0813
105	5e+12	NDD	8.673	8.183	-0.49
106	5e+12	NDD	9.4014	7.5598	-1.8416
107	5e+12	NDD	8.7542	6.0346	-2.7196
108	1e+13	NDD	8.6292	7.3974	-1.2318
109	1e+13	NDD	7.4692	8.1927	0.7235
110	1e+13	NDD	8.7034	7.6229	-1.0805
111	1e+13	NDD	9.483	6.0501	-3.4329
732	0	CORRELATION	8.7179	7.3609	-1.357
742	0	CORRELATION	7.4842	8.1431	0.6589
879	0	CORRELATION	9.3831	5.9983	-3.3848
880	0	CORRELATION	9.254	7.3867	-1.8673

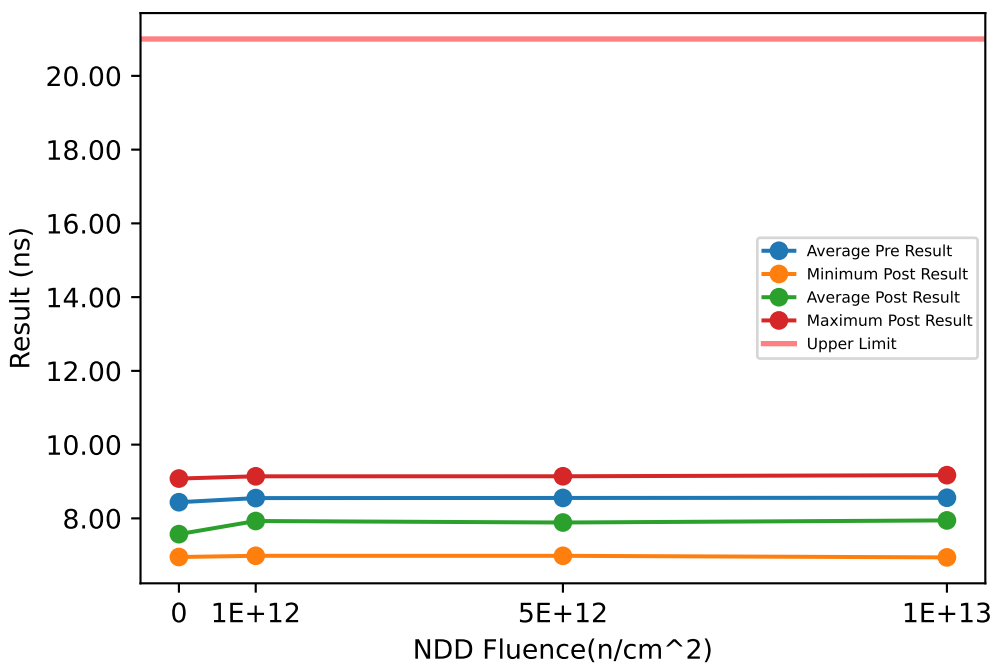
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.4842	8.7098	9.3831	0.86634	5.9983	7.2223	8.1431	0.89299	-3.3848	-1.4875	0.6589	1.6701
1e+12	7.446	8.5686	9.4397	0.82679	5.9923	7.3164	8.1863	0.93587	-1.4537	-1.2521	-1.0737	0.15606
5e+12	7.496	8.5812	9.4014	0.79346	6.0346	7.298	8.183	0.90583	-2.7196	-1.2831	-0.0813	1.2178
1e+13	7.4692	8.5712	9.483	0.82998	6.0501	7.3158	8.1927	0.90773	-3.4329	-1.2554	0.7235	1.7018

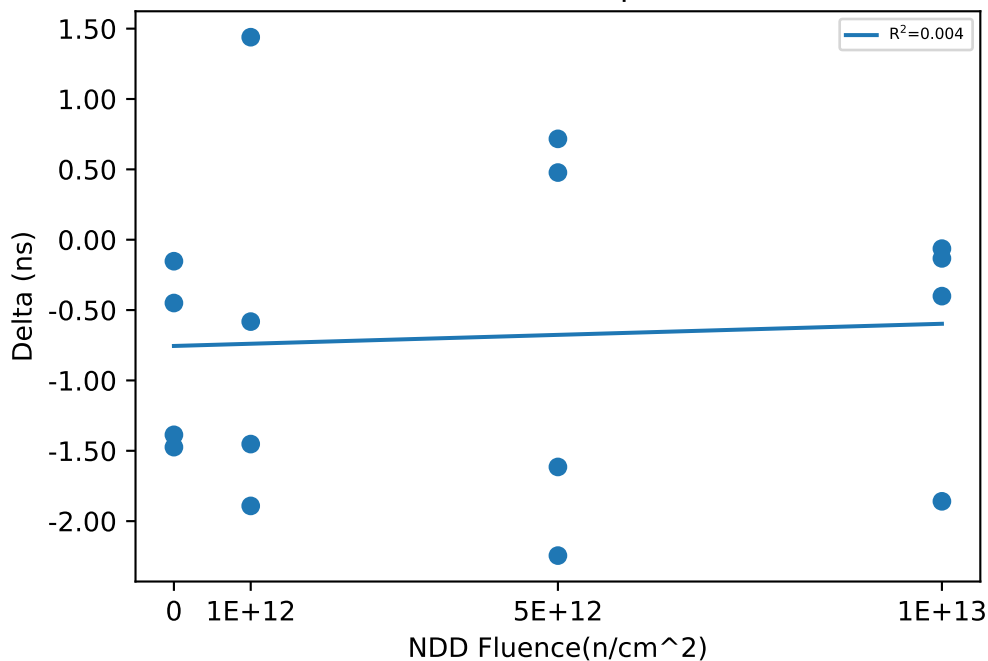
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	8.4377	6.9854	-1.4523
101	1e+12	NDD	7.7018	9.141	1.4392
102	1e+12	NDD	8.8533	8.2714	-0.5819
103	1e+12	NDD	9.2086	7.3169	-1.8917
104	5e+12	NDD	9.2298	6.985	-2.2448
105	5e+12	NDD	8.4253	9.1421	0.7168
106	5e+12	NDD	7.6835	8.1608	0.4773
107	5e+12	NDD	8.8785	7.2637	-1.6148
108	1e+13	NDD	8.8011	6.942	-1.8591
109	1e+13	NDD	9.2353	9.1719	-0.0634
110	1e+13	NDD	8.4474	8.3147	-0.1327
111	1e+13	NDD	7.7529	7.352	-0.4009
732	0	CORRELATION	8.4265	6.9524	-1.4741
742	0	CORRELATION	9.2329	9.0801	-0.1528
879	0	CORRELATION	7.6825	7.2326	-0.4499
880	0	CORRELATION	8.4116	7.0251	-1.3865

NDD vs Post - Pre Exposure Delta

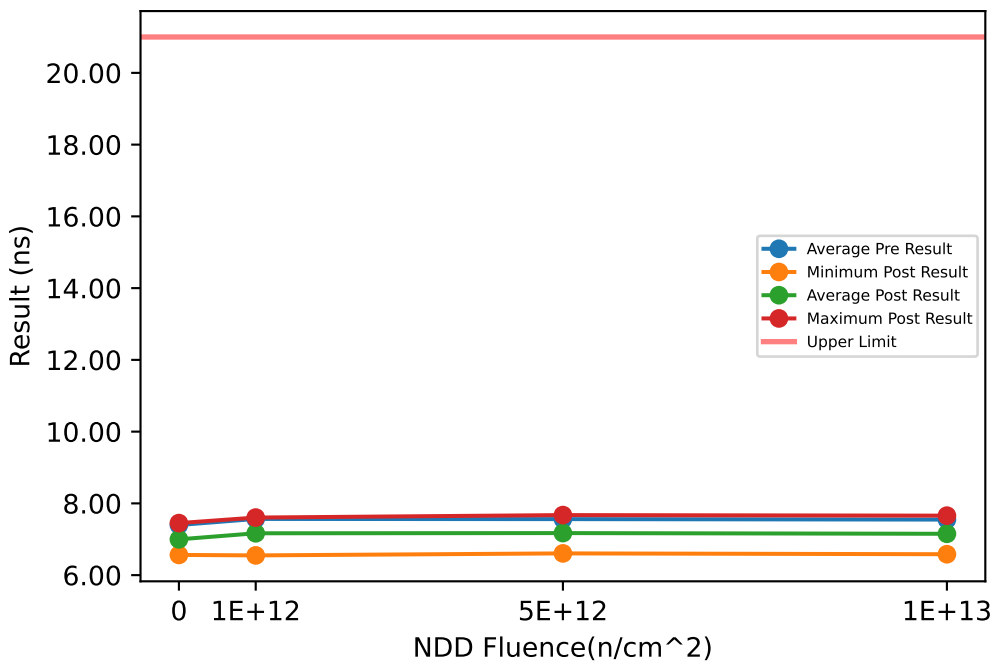


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.6825	8.4384	9.2329	0.63337	6.9524	7.5725	9.0801	1.012	-1.4741	-0.86583	-0.1528	0.66395
1e+12	7.7018	8.5503	9.2086	0.64751	6.9854	7.9287	9.141	0.97489	-1.8917	-0.62168	1.4392	1.4778
5e+12	7.6835	8.5543	9.2298	0.66742	6.985	7.8879	9.1421	0.97508	-2.2448	-0.66638	0.7168	1.4846
1e+13	7.7529	8.5592	9.2353	0.6267	6.942	7.9451	9.1719	0.99994	-1.8591	-0.61402	-0.0634	0.84271

Device Test: 24.66 TIMING|FALL/SYNC1/5//511k/4011/@SYNC_HL_FALL_TIME

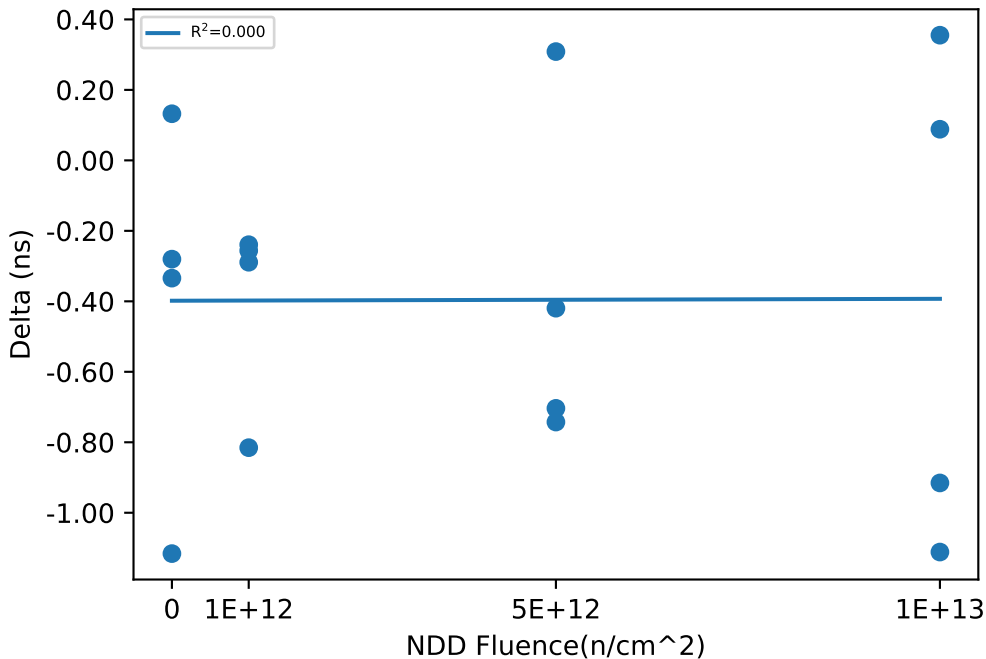
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	7.3279	7.0388	-0.2891
101	1e+12	NDD	7.3654	6.5501	-0.8153
102	1e+12	NDD	7.861	7.6048	-0.2562
103	1e+12	NDD	7.7124	7.4731	-0.2393
104	5e+12	NDD	7.7182	6.9756	-0.7426
105	5e+12	NDD	7.3096	6.6059	-0.7037
106	5e+12	NDD	7.365	7.6737	0.3087
107	5e+12	NDD	7.853	7.4335	-0.4195
108	1e+13	NDD	7.8525	6.9371	-0.9154
109	1e+13	NDD	7.6944	6.5829	-1.1115
110	1e+13	NDD	7.3027	7.6579	0.3552
111	1e+13	NDD	7.3432	7.4315	0.0883
732	0	CORRELATION	7.3017	7.0214	-0.2803
742	0	CORRELATION	7.6794	6.5635	-1.1159
879	0	CORRELATION	7.3181	7.4504	0.1323
880	0	CORRELATION	7.2896	6.9554	-0.3342

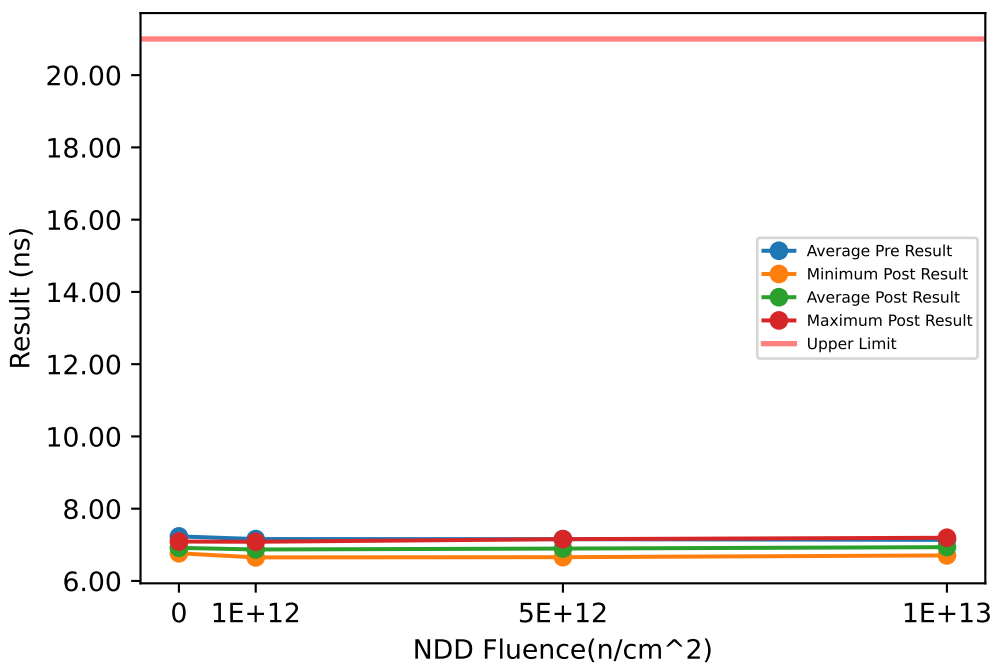
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.2896	7.3972	7.6794	0.1885	6.5635	6.9977	7.4504	0.36323	-1.1159	-0.39953	0.1323	0.52106
1e+12	7.3279	7.5667	7.861	0.26165	6.5501	7.1667	7.6048	0.47692	-0.8153	-0.39997	-0.2393	0.27765
5e+12	7.3096	7.5614	7.853	0.26558	6.6059	7.1722	7.6737	0.47579	-0.7426	-0.38927	0.3087	0.48709
1e+13	7.3027	7.5482	7.8525	0.26849	6.5829	7.1524	7.6579	0.48446	-1.1115	-0.39585	0.3552	0.72585

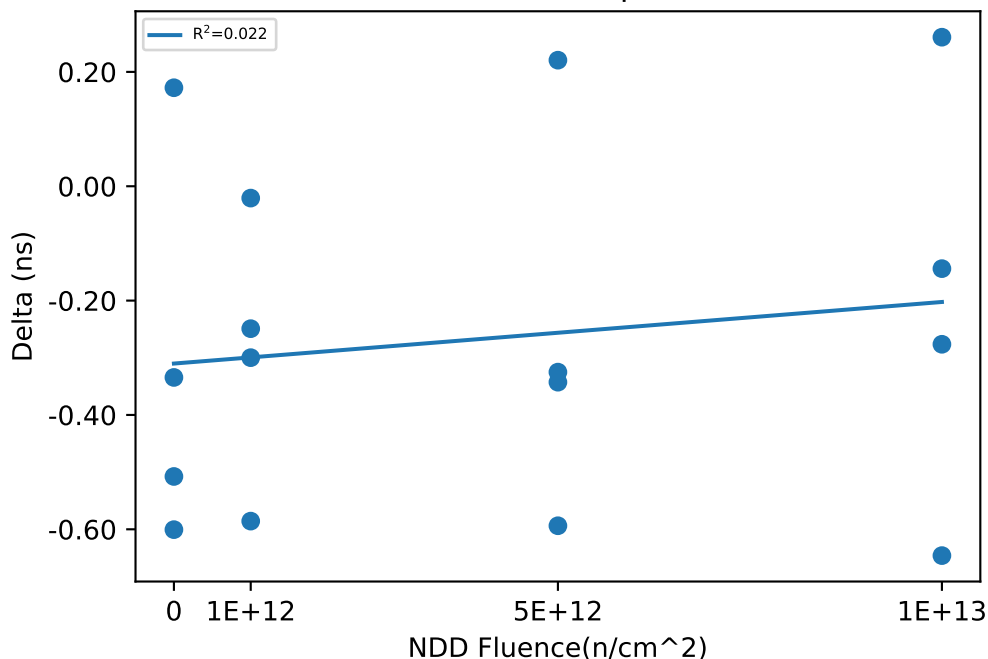
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	7.3763	6.7906	-0.5857
101	1e+12	NDD	6.9769	6.9562	-0.0207
102	1e+12	NDD	6.9516	6.6518	-0.2998
103	1e+12	NDD	7.3337	7.0846	-0.2491
104	5e+12	NDD	7.3409	6.7471	-0.5938
105	5e+12	NDD	7.3664	7.0237	-0.3427
106	5e+12	NDD	6.9828	6.6577	-0.3251
107	5e+12	NDD	6.936	7.1565	0.2205
108	1e+13	NDD	6.928	6.7839	-0.1441
109	1e+13	NDD	7.332	7.0556	-0.2764
110	1e+13	NDD	7.3524	6.7064	-0.646
111	1e+13	NDD	6.9346	7.1953	0.2607
732	0	CORRELATION	7.344	6.8364	-0.5076
742	0	CORRELATION	7.3034	6.969	-0.3344
879	0	CORRELATION	6.9184	7.0907	0.1723
880	0	CORRELATION	7.3663	6.7657	-0.6006

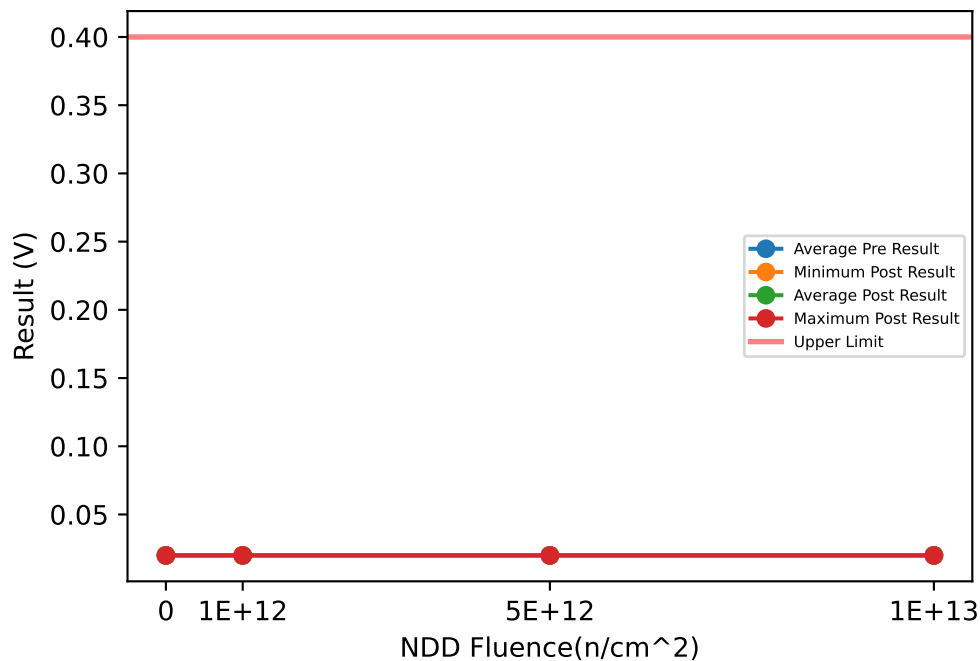
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.9184	7.233	7.3663	0.21136	6.7657	6.9154	7.0907	0.14405	-0.6006	-0.31757	0.1723	0.34471
1e+12	6.9516	7.1596	7.3763	0.2265	6.6518	6.8708	7.0846	0.18921	-0.5857	-0.28882	-0.0207	0.23218
5e+12	6.936	7.1565	7.3664	0.22866	6.6577	6.8963	7.1565	0.23318	-0.5938	-0.26028	0.2205	0.34321
1e+13	6.928	7.1368	7.3524	0.23739	6.7064	6.9353	7.1953	0.22905	-0.646	-0.20145	0.2607	0.37422

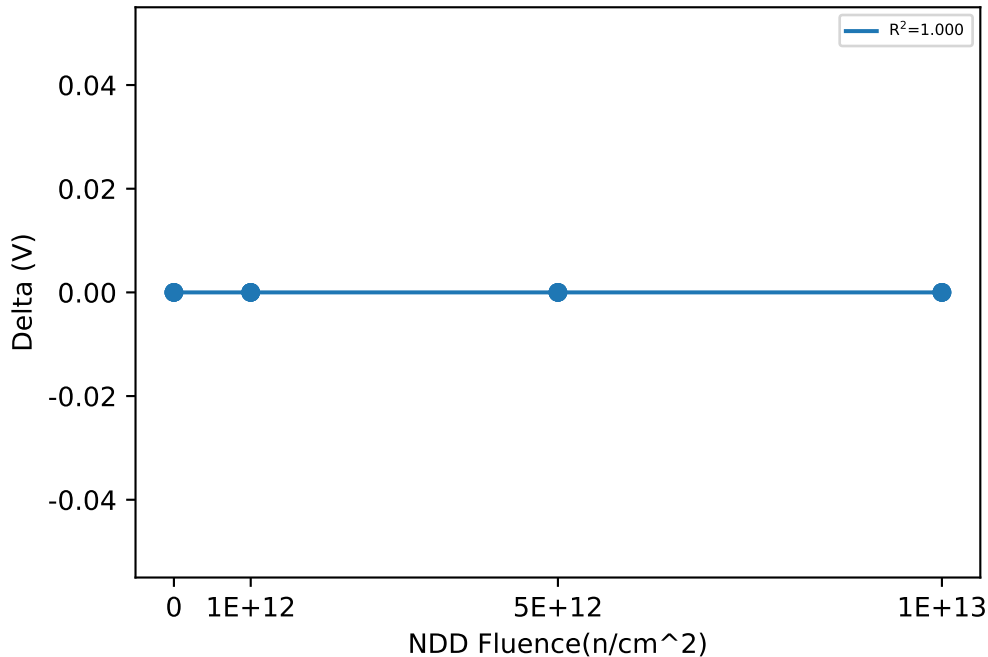
NDD vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.02	0.02	0
101	1e+12	NDD	0.02	0.02	0
102	1e+12	NDD	0.02	0.02	0
103	1e+12	NDD	0.02	0.02	0
104	5e+12	NDD	0.02	0.02	0
105	5e+12	NDD	0.02	0.02	0
106	5e+12	NDD	0.02	0.02	0
107	5e+12	NDD	0.02	0.02	0
108	1e+13	NDD	0.02	0.02	0
109	1e+13	NDD	0.02	0.02	0
110	1e+13	NDD	0.02	0.02	0
111	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

NDD vs Post - Pre Exposure Delta

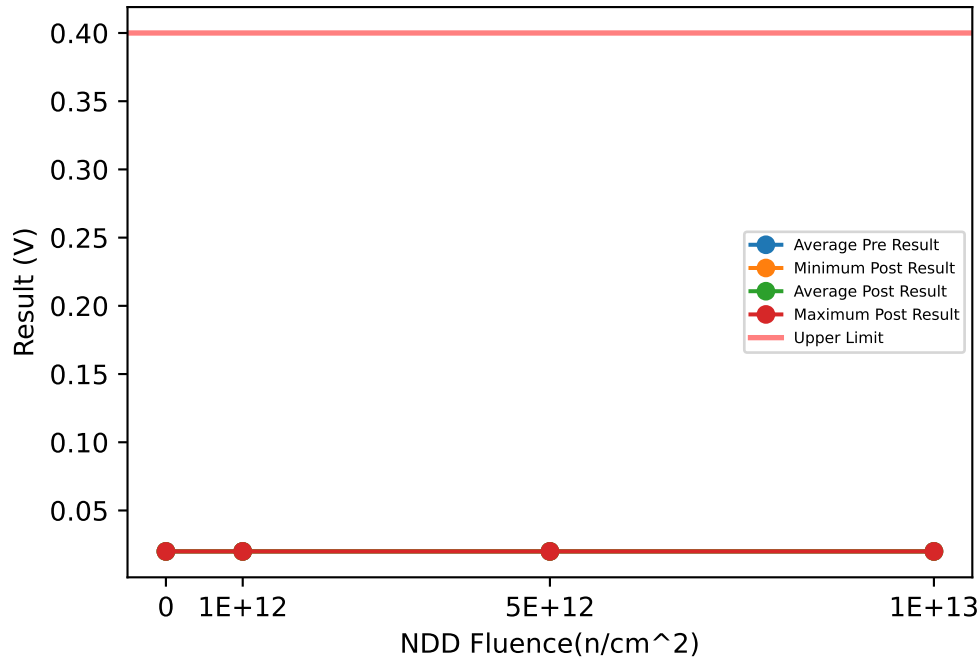


Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.71 LEVELS|VOL/SYNC2/5//511k//@SYNC_OUT_LOW

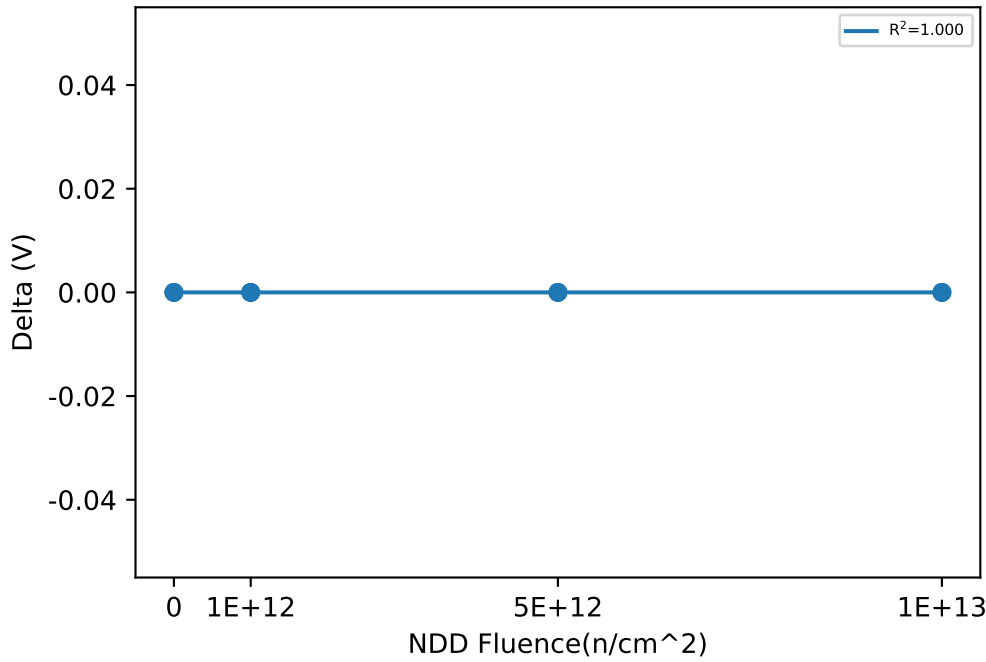
NDD vs Result Stats



Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.02	0.02	0
101	1e+12	NDD	0.02	0.02	0
102	1e+12	NDD	0.02	0.02	0
103	1e+12	NDD	0.02	0.02	0
104	5e+12	NDD	0.02	0.02	0
105	5e+12	NDD	0.02	0.02	0
106	5e+12	NDD	0.02	0.02	0
107	5e+12	NDD	0.02	0.02	0
108	1e+13	NDD	0.02	0.02	0
109	1e+13	NDD	0.02	0.02	0
110	1e+13	NDD	0.02	0.02	0
111	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

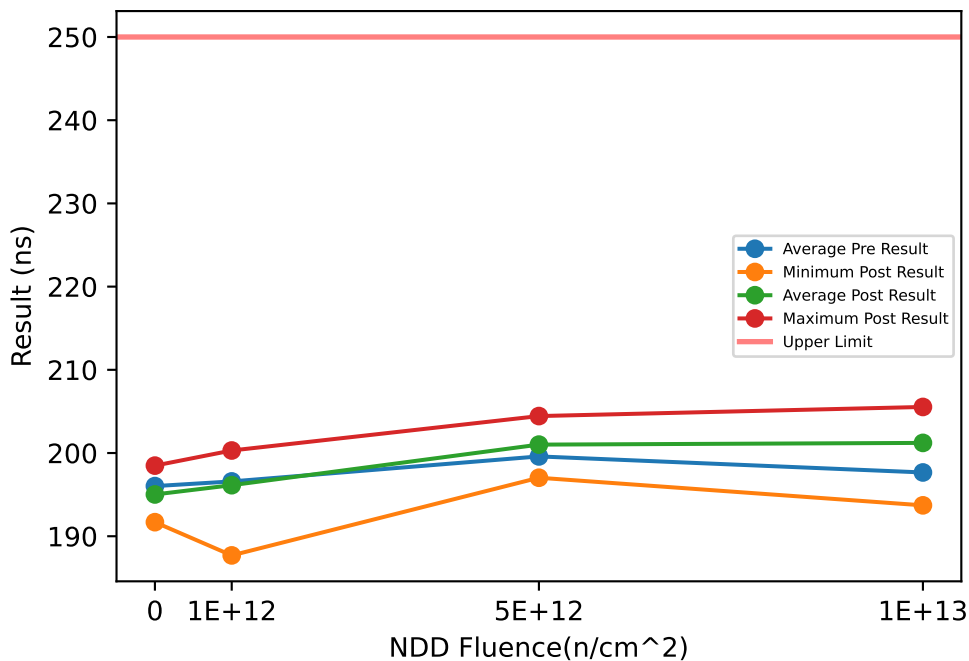
NDD vs Post - Pre Exposure Delta



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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

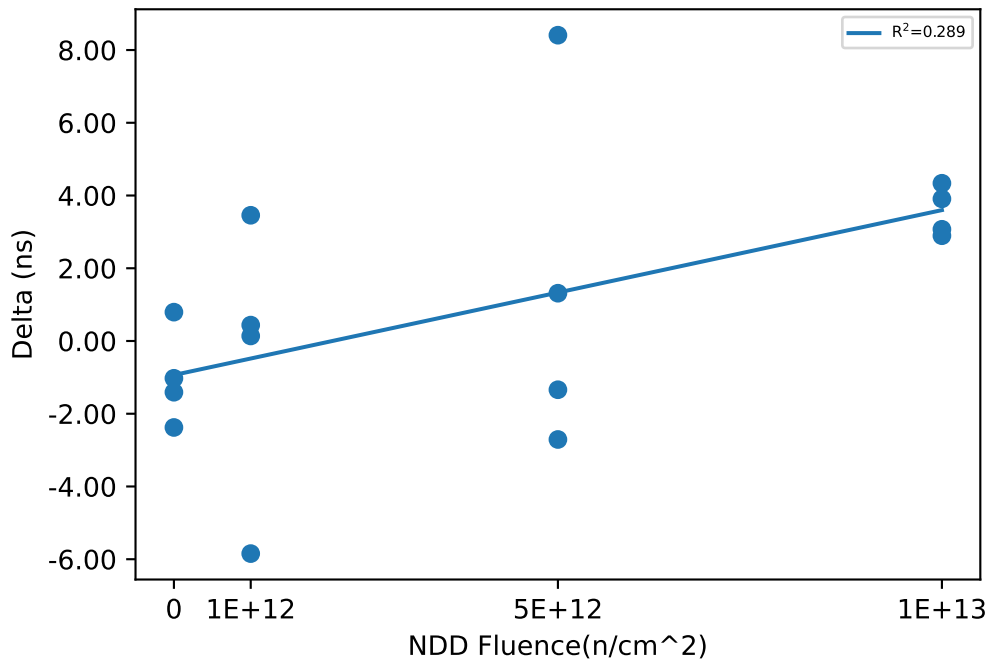
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	199.87	200.3	0.437
101	1e+12	NDD	193.54	187.7	-5.8455
102	1e+12	NDD	197.38	197.52	0.1388
103	1e+12	NDD	195.56	199.02	3.4568
104	5e+12	NDD	195.7	204.1	8.4079
105	5e+12	NDD	199.74	197.03	-2.7079
106	5e+12	NDD	203.13	204.44	1.3138
107	5e+12	NDD	199.81	198.47	-1.3402
108	1e+13	NDD	201.2	205.54	4.337
109	1e+13	NDD	190.64	193.71	3.0714
110	1e+13	NDD	199.49	203.4	3.9085
111	1e+13	NDD	199.32	202.22	2.8946
732	0	CORRELATION	199.9	198.49	-1.4087
742	0	CORRELATION	192.71	191.69	-1.0253
879	0	CORRELATION	197.38	195.01	-2.3775
880	0	CORRELATION	194.11	194.9	0.7932

NDD vs Post - Pre Exposure Delta

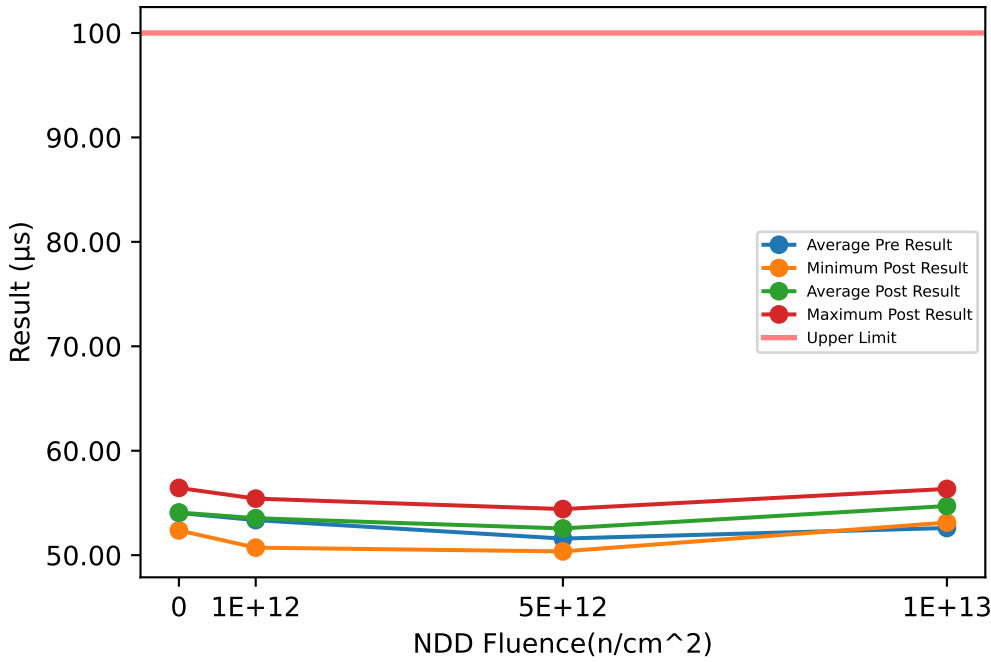


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	192.71	196.03	199.9	3.2385	191.69	195.02	198.49	2.7763	-2.3775	-1.0046	0.7932	1.3267
1e+12	193.54	196.59	199.87	2.6901	187.7	196.13	200.3	5.739	-5.8455	-0.45323	3.4568	3.8948
5e+12	195.7	199.59	203.13	3.0413	197.03	201.01	204.44	3.8137	-2.7079	1.4184	8.4079	4.9498
1e+13	190.64	197.66	201.2	4.7582	193.71	201.22	205.54	5.1881	2.8946	3.5529	4.337	0.68471

Device Test: 24.78 TIMING|DELAY/EN/5//511k//@T_EN_DELAY

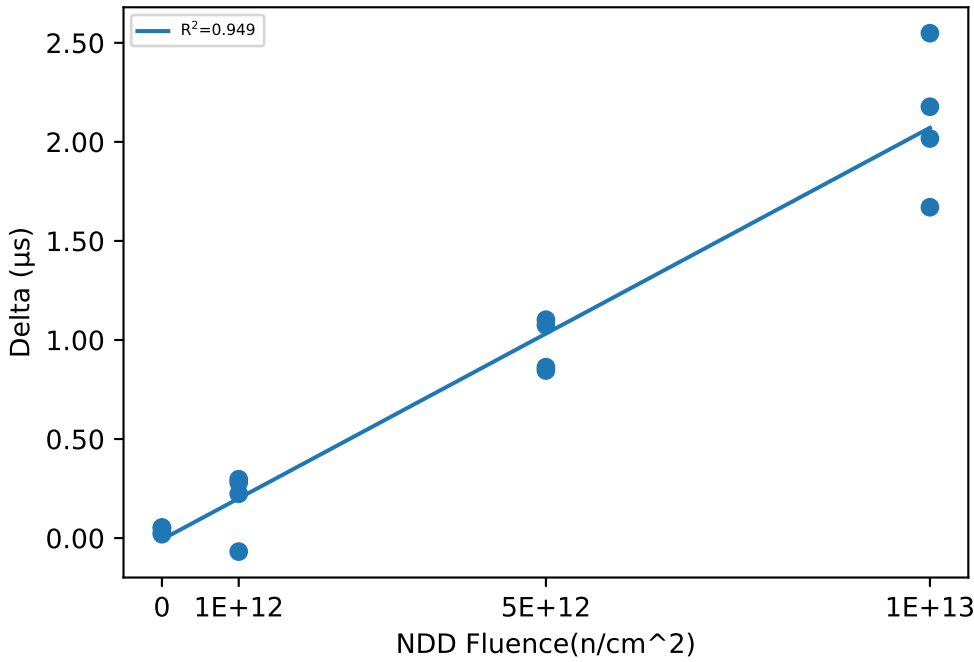
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	52.597	52.895	0.2973
101	1e+12	NDD	50.787	50.718	-0.0682
102	1e+12	NDD	55.136	55.416	0.2805
103	1e+12	NDD	54.906	55.13	0.2237
104	5e+12	NDD	50.967	52.042	1.0749
105	5e+12	NDD	53.568	54.414	0.8458
106	5e+12	NDD	52.32	53.422	1.1024
107	5e+12	NDD	49.497	50.361	0.8631
108	1e+13	NDD	51.668	54.216	2.5486
109	1e+13	NDD	51.453	53.123	1.67
110	1e+13	NDD	54.328	56.345	2.017
111	1e+13	NDD	52.958	55.135	2.1775
732	0	CORRELATION	56.385	56.437	0.0521
742	0	CORRELATION	54.057	54.076	0.0195
879	0	CORRELATION	52.317	52.37	0.0532
880	0	CORRELATION	53.426	53.454	0.0278

NDD vs Post - Pre Exposure Delta

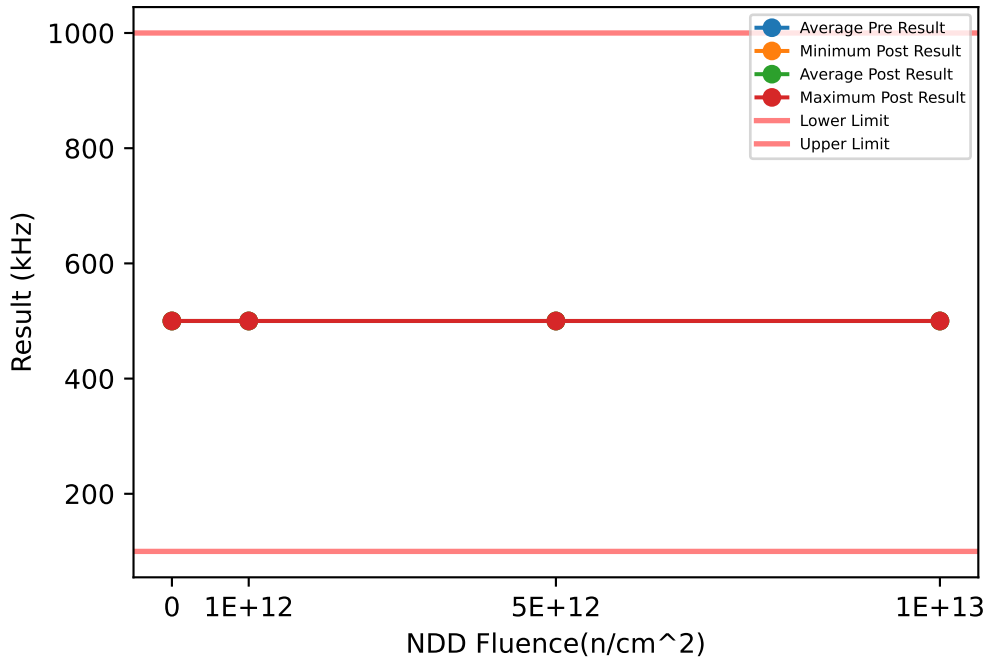


Test Statistics (µs)

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	52.317	54.046	56.385	1.7171	52.37	54.084	56.437	1.7197	0.0195	0.03815	0.0532	0.017088
1e+12	50.787	53.356	55.136	2.0614	50.718	53.54	55.416	2.1929	-0.0682	0.18333	0.2973	0.17061
5e+12	49.497	51.588	53.568	1.7522	50.361	52.56	54.414	1.7593	0.8458	0.97155	1.1024	0.13586
1e+13	51.453	52.602	54.328	1.3291	53.123	54.705	56.345	1.3683	1.67	2.1033	2.5486	0.36469

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

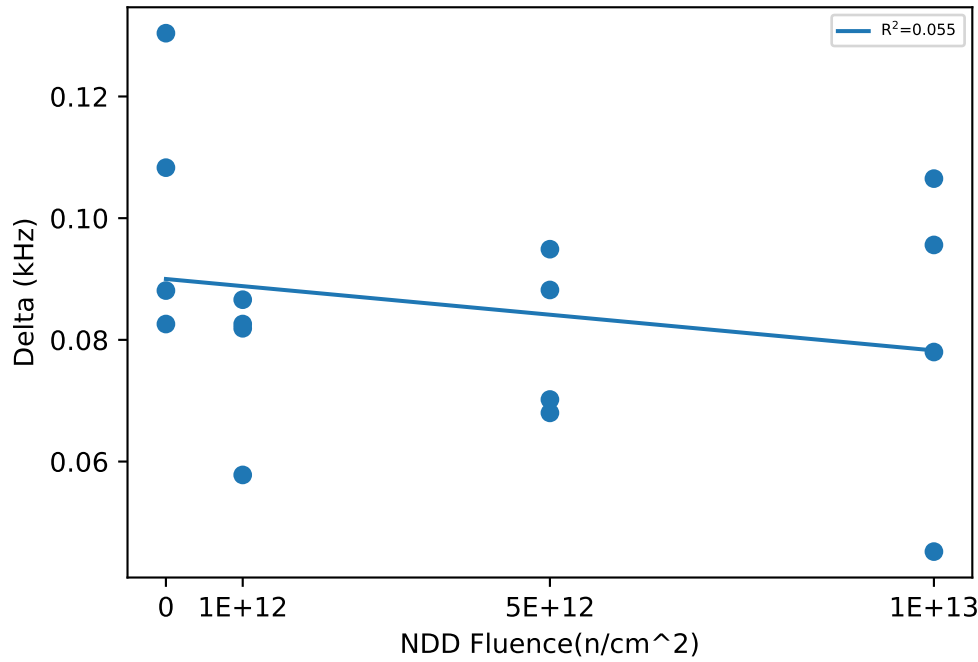
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	499.94	500.02	0.0866
101	1e+12	NDD	499.96	500.05	0.0826
102	1e+12	NDD	499.96	500.05	0.0819
103	1e+12	NDD	499.97	500.02	0.0578
104	5e+12	NDD	499.95	500.02	0.068
105	5e+12	NDD	499.94	500.04	0.0949
106	5e+12	NDD	499.96	500.04	0.0882
107	5e+12	NDD	499.97	500.04	0.0702
108	1e+13	NDD	499.97	500.02	0.0452
109	1e+13	NDD	499.94	500.04	0.0956
110	1e+13	NDD	499.92	500.03	0.1065
111	1e+13	NDD	499.97	500.05	0.078
732	0	CORRELATION	499.93	500.02	0.0881
742	0	CORRELATION	499.94	500.07	0.1304
879	0	CORRELATION	499.96	500.06	0.1083
880	0	CORRELATION	499.93	500.02	0.0826

NDD vs Post - Pre Exposure Delta

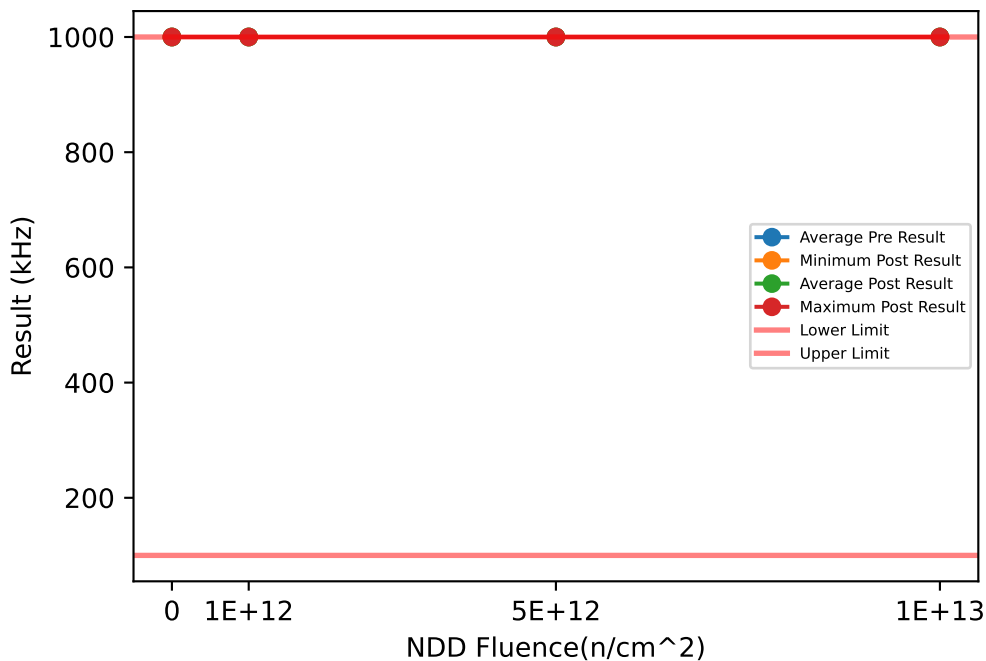


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.93	499.94	499.96	0.011787	500.02	500.04	500.07	0.030222	0.0826	0.10235	0.1304	0.02172
1e+12	499.94	499.96	499.97	0.013242	500.02	500.04	500.05	0.013038	0.0578	0.077225	0.0866	0.013114
5e+12	499.94	499.95	499.97	0.010817	500.02	500.03	500.04	0.012219	0.068	0.080325	0.0949	0.013277
1e+13	499.92	499.95	499.97	0.02454	500.02	500.03	500.05	0.01179	0.0452	0.081325	0.1065	0.026793

Device Test: 24.9 FREQ|1000kHz/SYNC1/4.5//OPEN//@SYNC_FREQ_RANGE

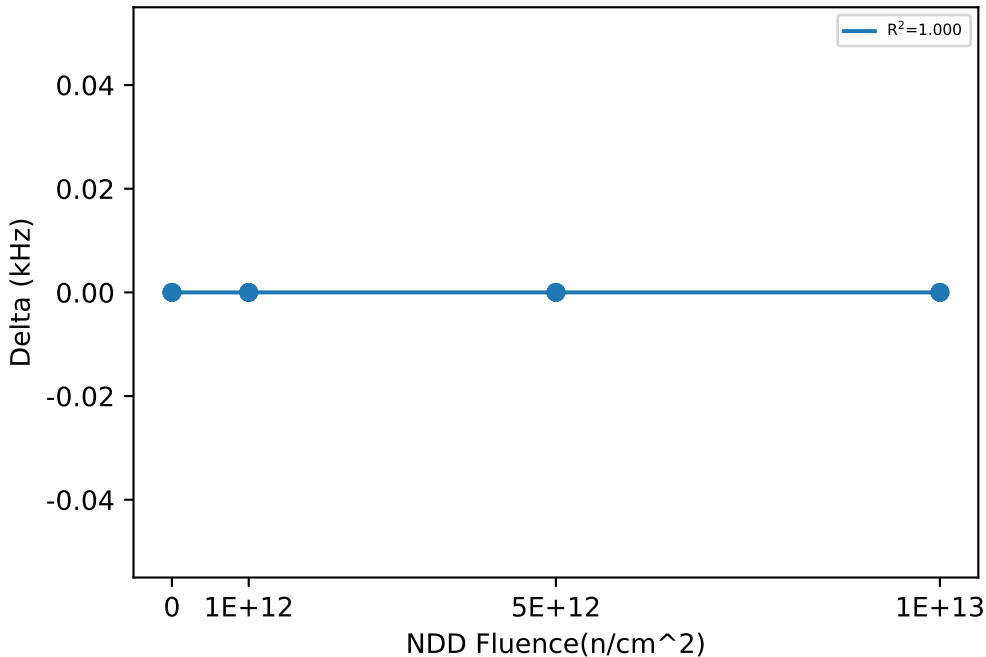
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1000	1000	0
101	1e+12	NDD	1000	1000	0
102	1e+12	NDD	1000	1000	0
103	1e+12	NDD	1000	1000	0
104	5e+12	NDD	1000	1000	0
105	5e+12	NDD	1000	1000	0
106	5e+12	NDD	1000	1000	0
107	5e+12	NDD	1000	1000	0
108	1e+13	NDD	1000	1000	0
109	1e+13	NDD	1000	1000	0
110	1e+13	NDD	1000	1000	0
111	1e+13	NDD	1000	1000	0
732	0	CORRELATION	1000	1000	0
742	0	CORRELATION	1000	1000	0
879	0	CORRELATION	1000	1000	0
880	0	CORRELATION	1000	1000	0

NDD vs Post - Pre Exposure Delta

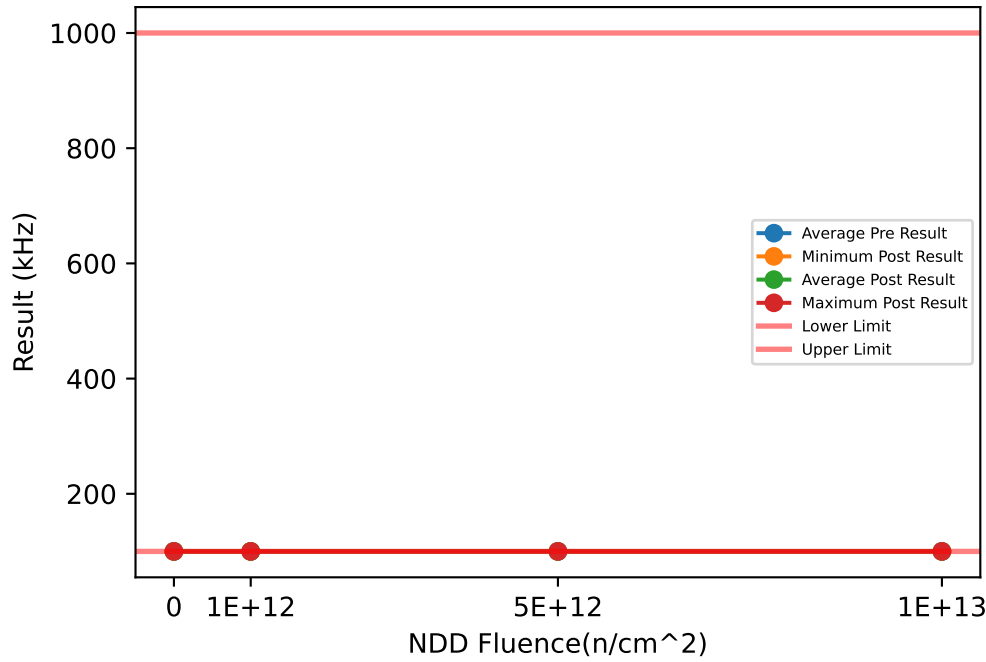


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
5e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+13	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

Device Test: 24.90 FREQ|100kHz/SYNC1/12//OPEN//@SYNC_FREQ_RANGE

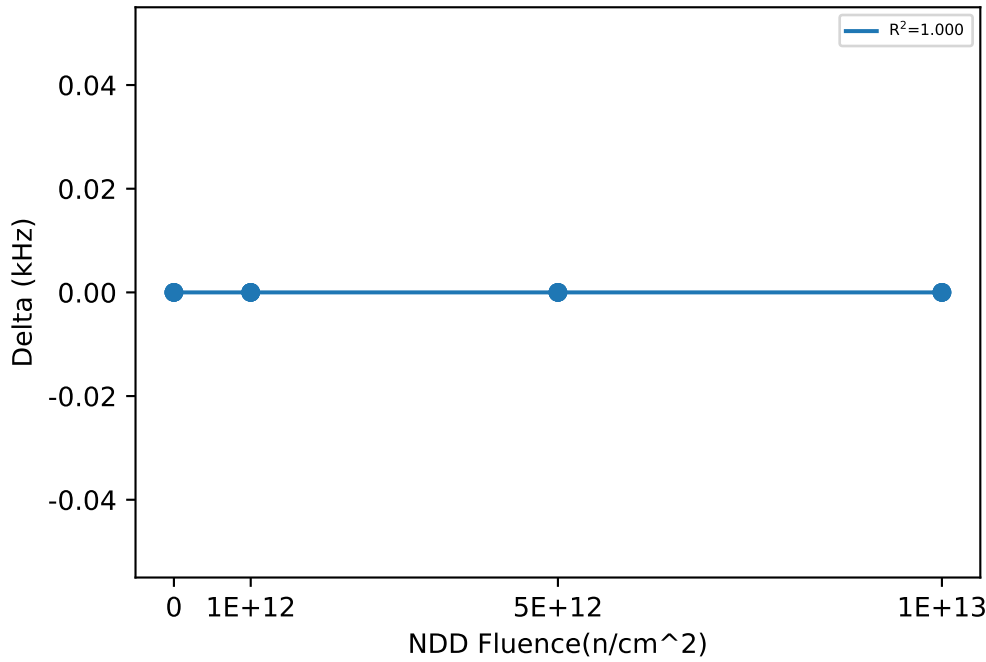
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	100	100	0
101	1e+12	NDD	100	100	0
102	1e+12	NDD	100	100	0
103	1e+12	NDD	100	100	0
104	5e+12	NDD	100	100	0
105	5e+12	NDD	100	100	0
106	5e+12	NDD	100	100	0
107	5e+12	NDD	100	100	0
108	1e+13	NDD	100	100	0
109	1e+13	NDD	100	100	0
110	1e+13	NDD	100	100	0
111	1e+13	NDD	100	100	0
732	0	CORRELATION	100	100	0
742	0	CORRELATION	100	100	0
879	0	CORRELATION	100	100	0
880	0	CORRELATION	100	100	0

NDD vs Post - Pre Exposure Delta

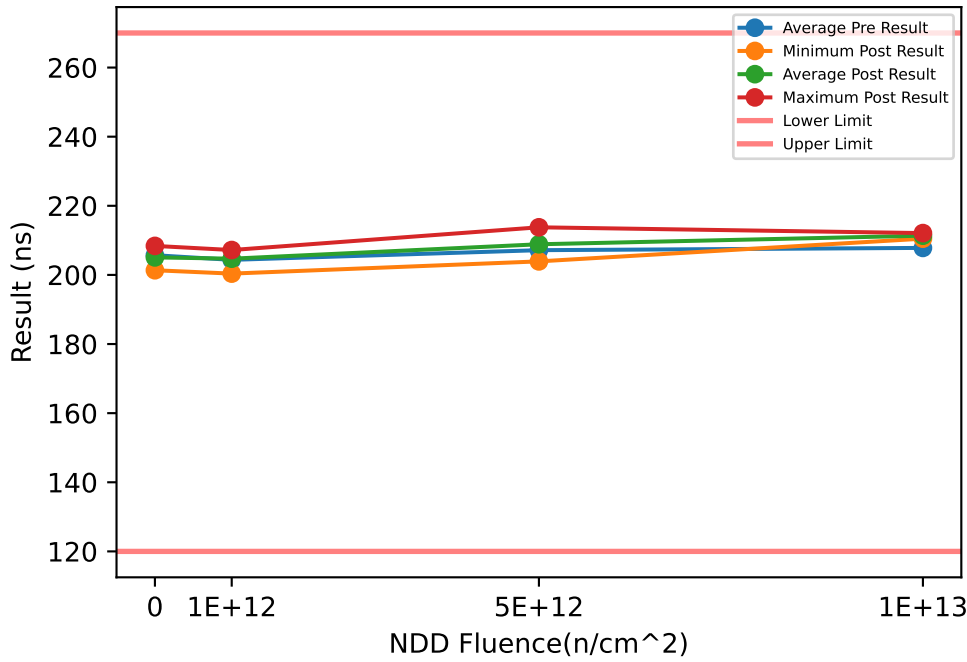


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
1e+12	100	100	100	0	100	100	100	0	0	0	0	0
5e+12	100	100	100	0	100	100	100	0	0	0	0	0
1e+13	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 24.91 TIMING|DELAY/SYNC1/12//OPEN/4011/@SYNC1_SW_DELAY

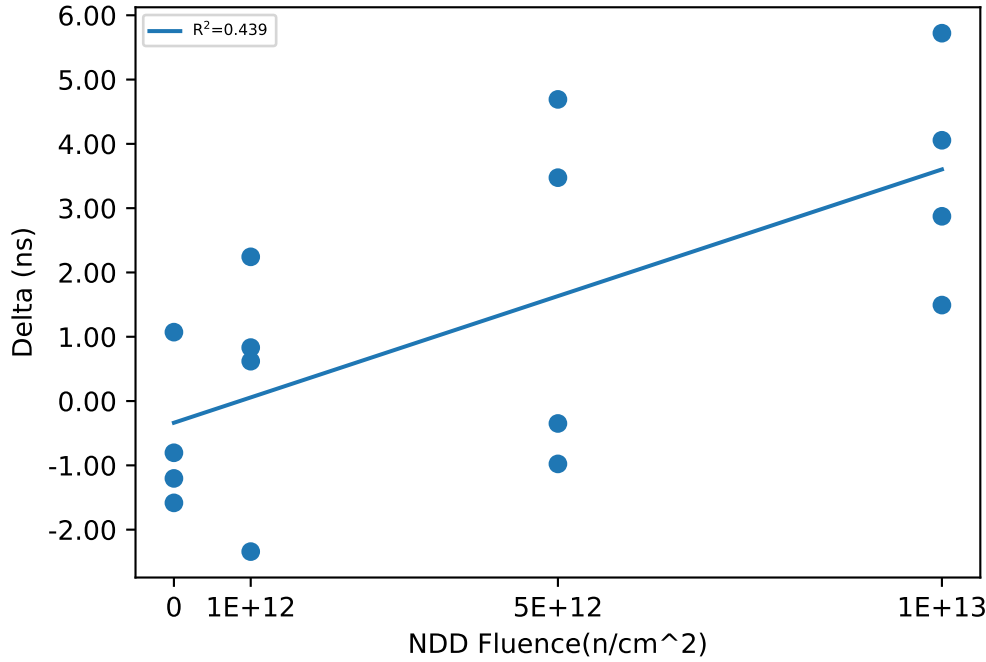
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	205.02	205.85	0.8318
101	1e+12	NDD	204.96	207.2	2.2431
102	1e+12	NDD	199.76	200.38	0.6198
103	1e+12	NDD	207.7	205.36	-2.3412
104	5e+12	NDD	208.55	208.2	-0.3485
105	5e+12	NDD	209.09	213.78	4.6915
106	5e+12	NDD	210.56	209.58	-0.9773
107	5e+12	NDD	200.44	203.92	3.4742
108	1e+13	NDD	204.77	210.49	5.7211
109	1e+13	NDD	207.4	211.46	4.056
110	1e+13	NDD	208.49	211.36	2.8735
111	1e+13	NDD	210.61	212.1	1.4927
732	0	CORRELATION	202.16	201.35	-0.8043
742	0	CORRELATION	207.32	208.39	1.0717
879	0	CORRELATION	205.07	203.48	-1.5834
880	0	CORRELATION	208.26	207.06	-1.203

NDD vs Post - Pre Exposure Delta

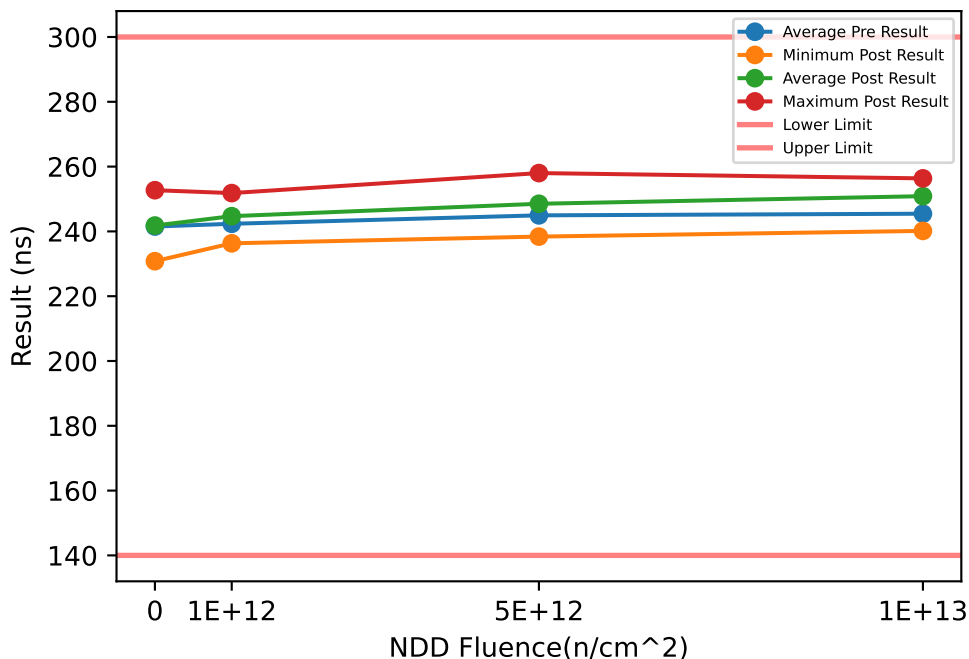


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	202.16	205.7	208.26	2.7182	201.35	205.07	208.39	3.2326	-1.5834	-0.62975	1.0717	1.1781
1e+12	199.76	204.36	207.7	3.3216	200.38	204.7	207.2	2.9826	-2.3412	0.33837	2.2431	1.9262
5e+12	200.44	207.16	210.56	4.5572	203.92	208.87	213.78	4.0654	-0.9773	1.71	4.6915	2.7965
1e+13	204.77	207.82	210.61	2.4301	210.49	211.35	212.1	0.66288	1.4927	3.5358	5.7211	1.7943

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

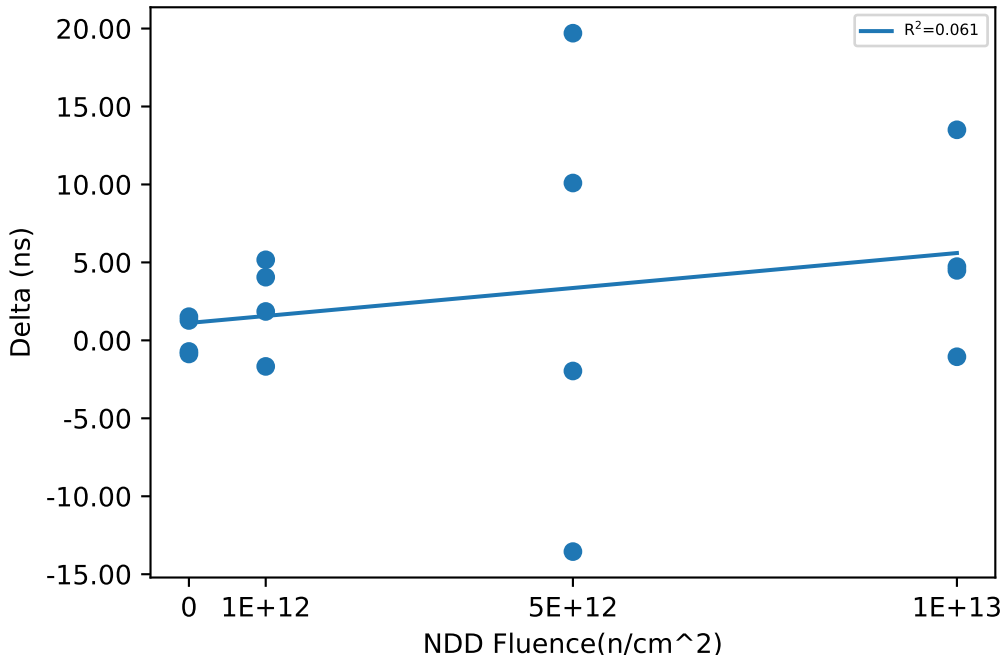
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	234.47	236.32	1.8538
101	1e+12	NDD	246.66	251.82	5.1666
102	1e+12	NDD	237.02	241.07	4.0517
103	1e+12	NDD	251.25	249.58	-1.6709
104	5e+12	NDD	251.95	238.4	-13.549
105	5e+12	NDD	238.3	258	19.702
106	5e+12	NDD	252.28	250.32	-1.9646
107	5e+12	NDD	237.3	247.39	10.093
108	1e+13	NDD	241.2	240.15	-1.0515
109	1e+13	NDD	251.49	256.22	4.7293
110	1e+13	NDD	237.25	250.76	13.505
111	1e+13	NDD	251.88	256.36	4.4887
732	0	CORRELATION	231.52	230.81	-0.7121
742	0	CORRELATION	251.44	252.72	1.2757
879	0	CORRELATION	245.73	247.25	1.519
880	0	CORRELATION	237.33	236.45	-0.8725

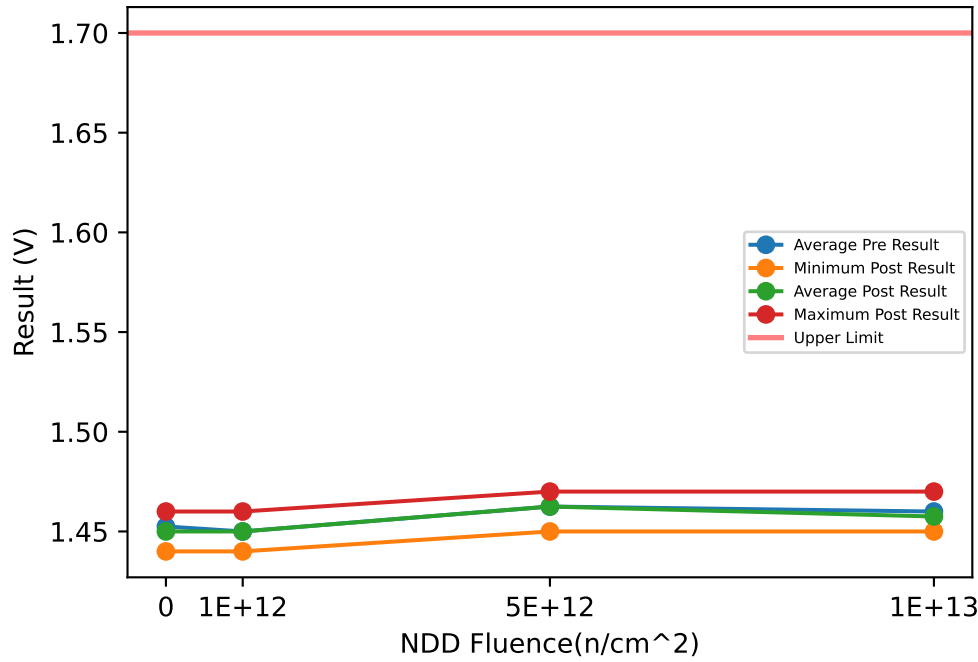
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	231.52	241.5	251.44	8.8273	230.81	241.81	252.72	9.9718	-0.8725	0.30253	1.519	1.2698
1e+12	234.47	242.35	251.25	7.9208	236.32	244.7	251.82	7.2535	-1.6709	2.3503	5.1666	3.0135
5e+12	237.3	244.96	252.28	8.2756	238.4	248.53	258	8.1001	-13.549	3.5702	19.702	14.451
1e+13	237.25	245.46	251.88	7.3734	240.15	250.87	256.36	7.6104	-1.0515	5.418	13.505	6.0166

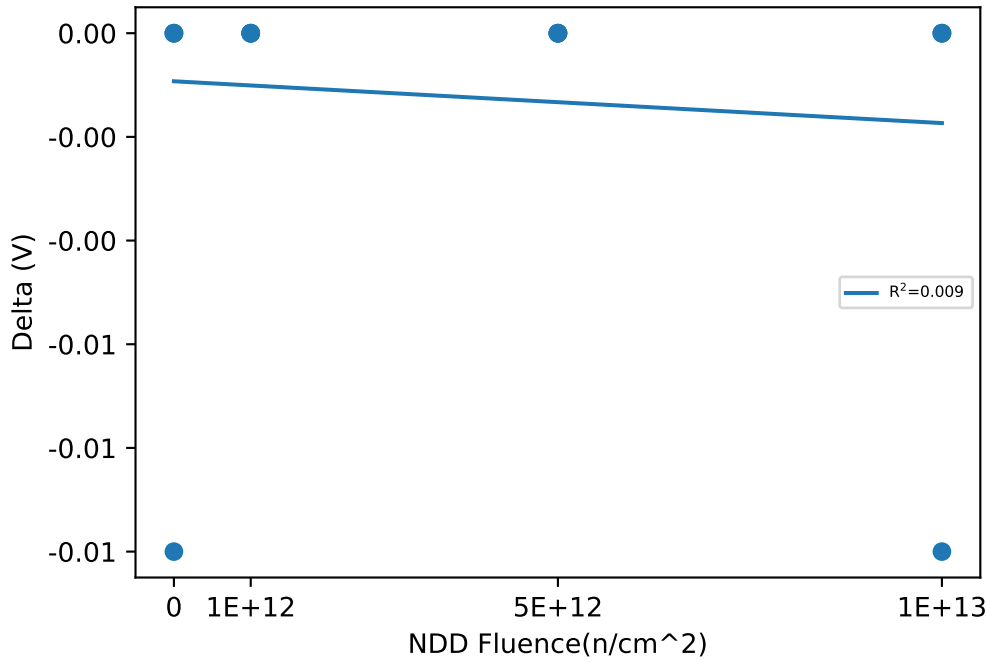
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.45	1.45	0
101	1e+12	NDD	1.45	1.45	0
102	1e+12	NDD	1.44	1.44	0
103	1e+12	NDD	1.46	1.46	0
104	5e+12	NDD	1.47	1.47	0
105	5e+12	NDD	1.47	1.47	0
106	5e+12	NDD	1.45	1.45	0
107	5e+12	NDD	1.46	1.46	0
108	1e+13	NDD	1.46	1.46	0
109	1e+13	NDD	1.46	1.45	-0.01
110	1e+13	NDD	1.45	1.45	0
111	1e+13	NDD	1.47	1.47	0
732	0	CORRELATION	1.44	1.44	0
742	0	CORRELATION	1.45	1.45	0
879	0	CORRELATION	1.47	1.46	-0.01
880	0	CORRELATION	1.45	1.45	0

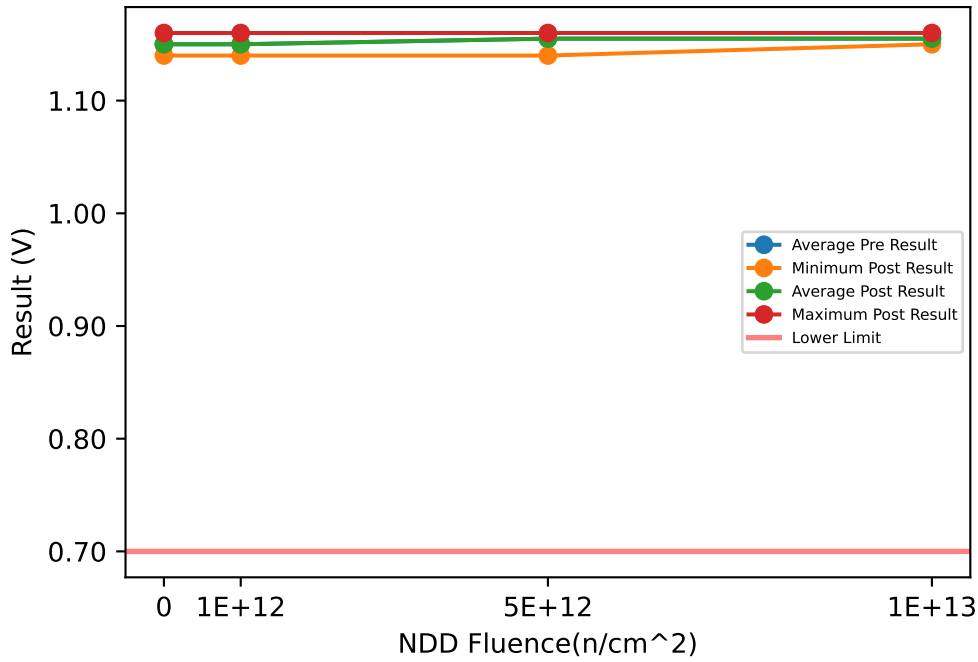
NDD vs Post - Pre Exposure Delta



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	1.44	1.4525	1.47	0.012583	1.44	1.45	1.46	0.008165	-0.01	-0.0025	0	0.005
1e+12	1.44	1.45	1.46	0.008165	1.44	1.45	1.46	0.008165	0	0	0	0
5e+12	1.45	1.4625	1.47	0.0095743	1.45	1.4625	1.47	0.0095743	0	0	0	0
1e+13	1.45	1.46	1.47	0.008165	1.45	1.4575	1.47	0.0095743	-0.01	-0.0025	0	0.005

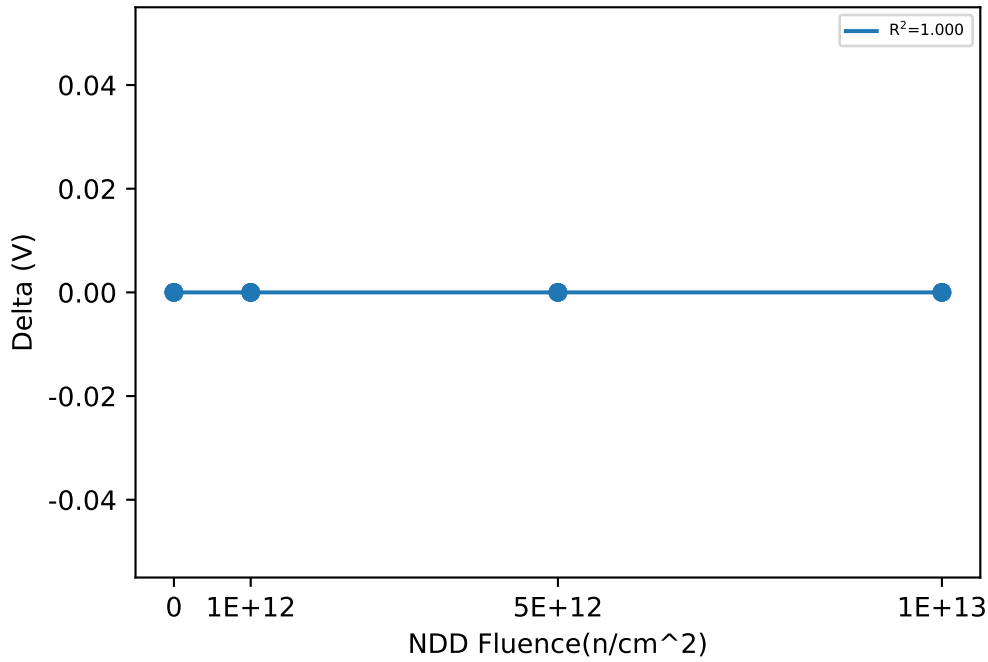
NDD vs Result Stats



Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1.15	1.15	0
101	1e+12	NDD	1.15	1.15	0
102	1e+12	NDD	1.14	1.14	0
103	1e+12	NDD	1.16	1.16	0
104	5e+12	NDD	1.16	1.16	0
105	5e+12	NDD	1.16	1.16	0
106	5e+12	NDD	1.14	1.14	0
107	5e+12	NDD	1.16	1.16	0
108	1e+13	NDD	1.16	1.16	0
109	1e+13	NDD	1.15	1.15	0
110	1e+13	NDD	1.15	1.15	0
111	1e+13	NDD	1.16	1.16	0
732	0	CORRELATION	1.14	1.14	0
742	0	CORRELATION	1.15	1.15	0
879	0	CORRELATION	1.16	1.16	0
880	0	CORRELATION	1.15	1.15	0

NDD vs Post - Pre Exposure Delta

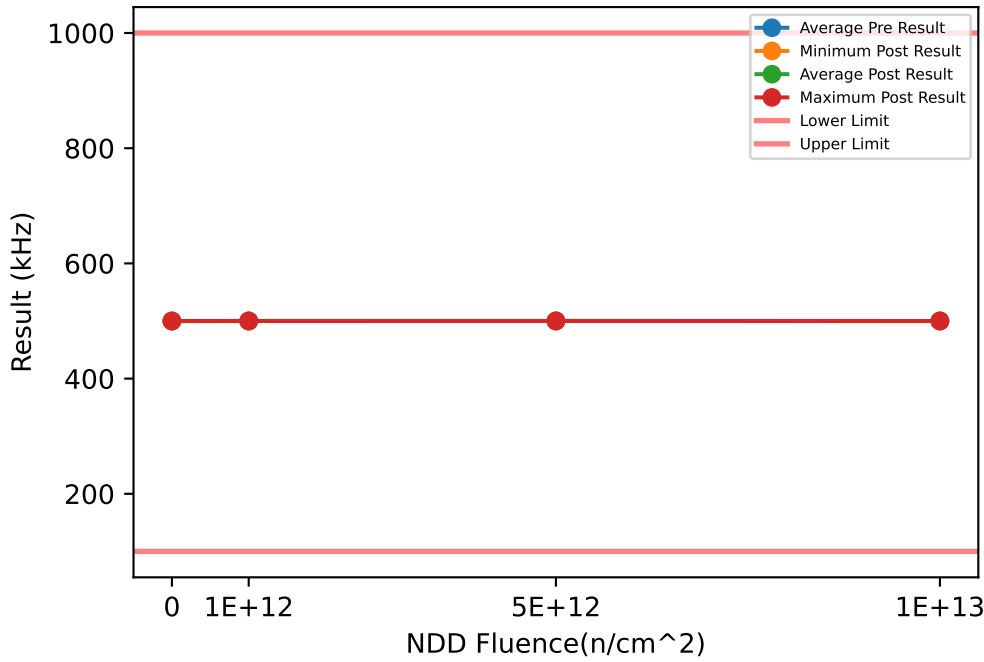


Test Statistics (V)

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	1.14	1.15	1.16	0.008165	1.14	1.15	1.16	0.008165	0	0	0	0
1e+12	1.14	1.15	1.16	0.008165	1.14	1.15	1.16	0.008165	0	0	0	0
5e+12	1.14	1.155	1.16	0.01	1.14	1.155	1.16	0.01	0	0	0	0
1e+13	1.15	1.155	1.16	0.0057735	1.15	1.155	1.16	0.0057735	0	0	0	0

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

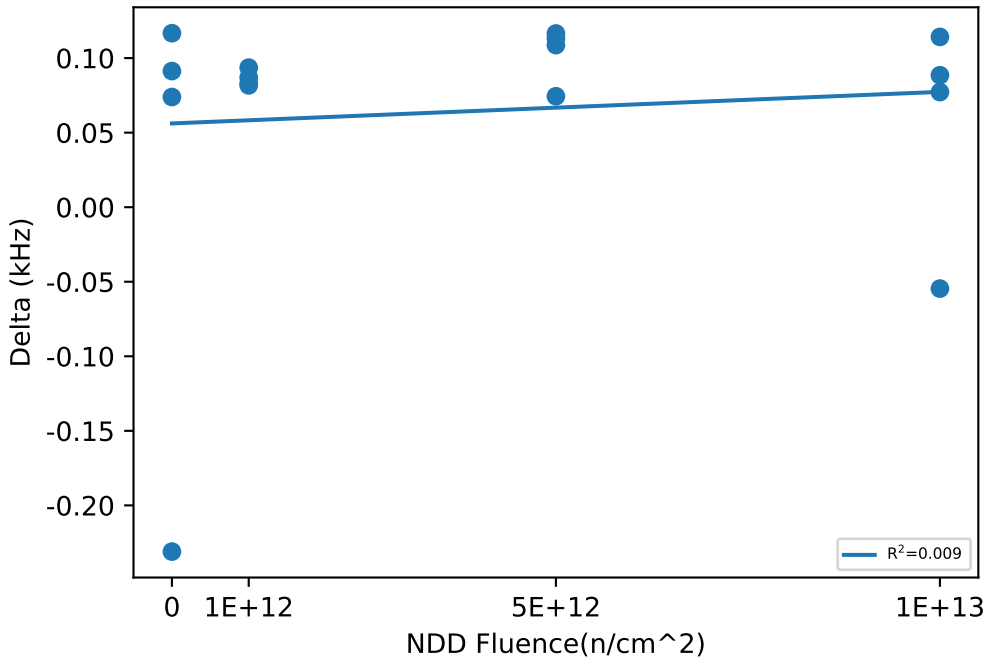
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	499.94	500.03	0.0817
101	1e+12	NDD	499.97	500.05	0.087
102	1e+12	NDD	499.97	500.05	0.0831
103	1e+12	NDD	499.94	500.04	0.0936
104	5e+12	NDD	499.95	500.06	0.1087
105	5e+12	NDD	499.93	500.05	0.1131
106	5e+12	NDD	499.96	500.03	0.0744
107	5e+12	NDD	499.97	500.08	0.1165
108	1e+13	NDD	499.98	499.92	-0.0546
109	1e+13	NDD	499.96	500.05	0.0885
110	1e+13	NDD	499.93	500.04	0.1142
111	1e+13	NDD	499.96	500.03	0.0772
732	0	CORRELATION	499.93	499.7	-0.231
742	0	CORRELATION	499.93	500.02	0.0913
879	0	CORRELATION	499.94	500.06	0.1167
880	0	CORRELATION	499.93	500.01	0.0739

NDD vs Post - Pre Exposure Delta

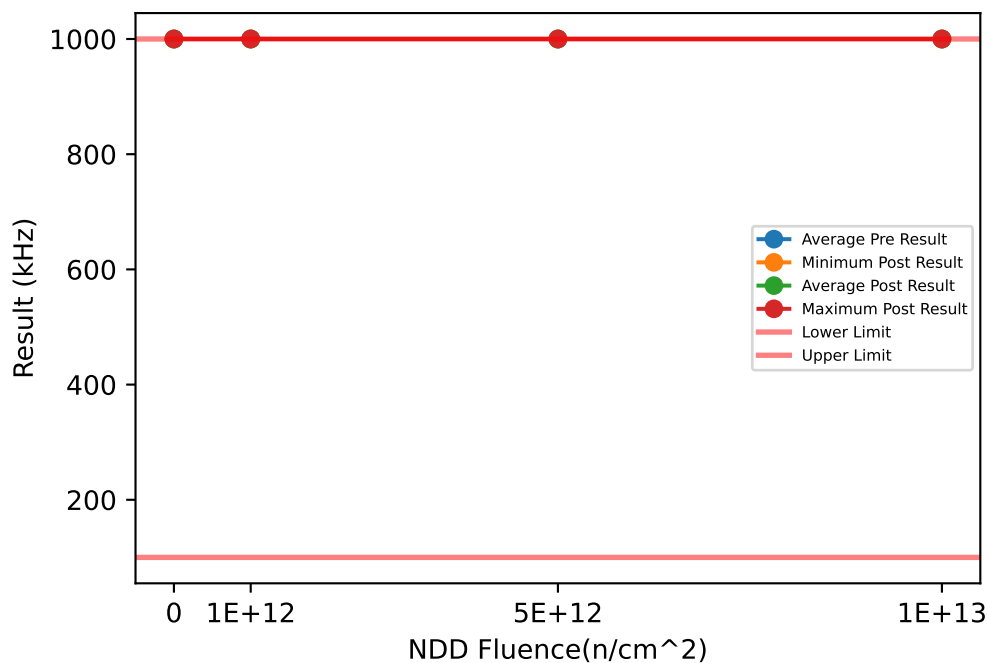


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.93	499.94	499.94	0.0023615	499.7	499.95	500.06	0.16402	-0.231	0.012725	0.1167	0.16343
1e+12	499.94	499.96	499.97	0.014367	500.03	500.04	500.05	0.013597	0.0817	0.08635	0.0936	0.0053282
5e+12	499.93	499.95	499.97	0.01461	500.03	500.05	500.08	0.021383	0.0744	0.10318	0.1165	0.019447
1e+13	499.93	499.96	499.98	0.021098	499.92	500.01	500.05	0.058927	-0.0546	0.056325	0.1142	0.075553

Device Test: 24.98 FREQ|1000kHz/SYNC1/12//OPEN//@SYNC_FREQ_RANGE

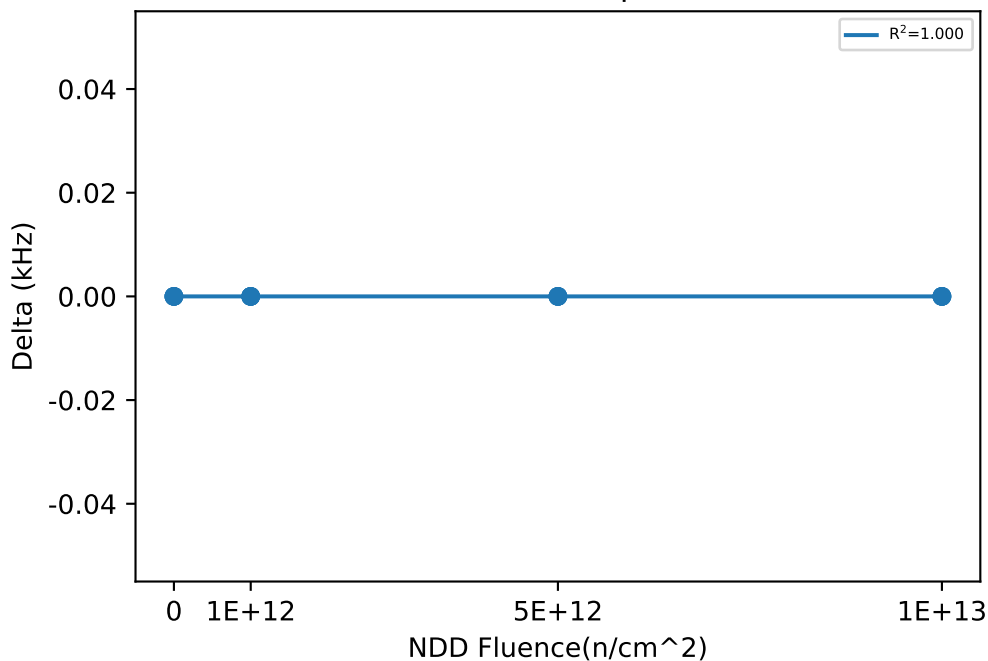
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	1000	1000	0
101	1e+12	NDD	1000	1000	0
102	1e+12	NDD	1000	1000	0
103	1e+12	NDD	1000	1000	0
104	5e+12	NDD	1000	1000	0
105	5e+12	NDD	1000	1000	0
106	5e+12	NDD	1000	1000	0
107	5e+12	NDD	1000	1000	0
108	1e+13	NDD	1000	1000	0
109	1e+13	NDD	1000	1000	0
110	1e+13	NDD	1000	1000	0
111	1e+13	NDD	1000	1000	0
732	0	CORRELATION	1000	1000	0
742	0	CORRELATION	1000	1000	0
879	0	CORRELATION	1000	1000	0
880	0	CORRELATION	1000	1000	0

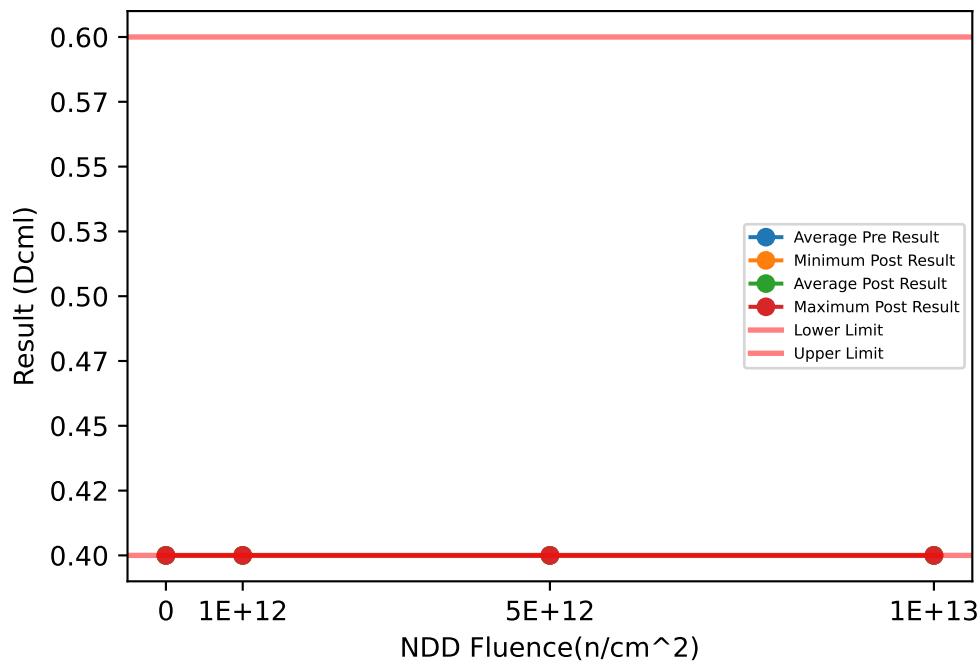
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
5e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+13	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

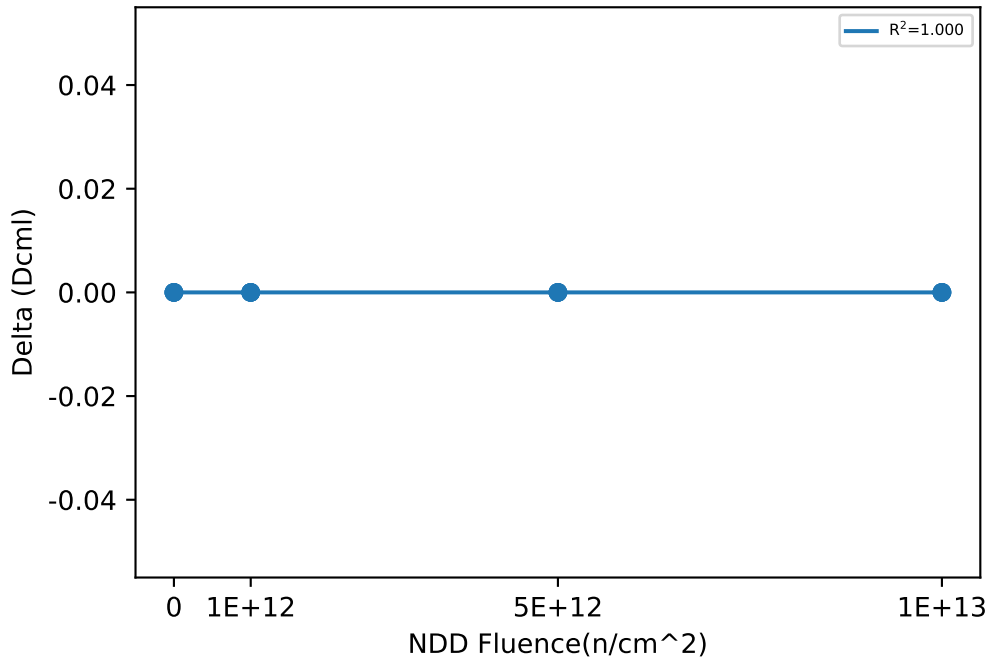
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
100	1e+12	NDD	0.4	0.4	0
101	1e+12	NDD	0.4	0.4	0
102	1e+12	NDD	0.4	0.4	0
103	1e+12	NDD	0.4	0.4	0
104	5e+12	NDD	0.4	0.4	0
105	5e+12	NDD	0.4	0.4	0
106	5e+12	NDD	0.4	0.4	0
107	5e+12	NDD	0.4	0.4	0
108	1e+13	NDD	0.4	0.4	0
109	1e+13	NDD	0.4	0.4	0
110	1e+13	NDD	0.4	0.4	0
111	1e+13	NDD	0.4	0.4	0
732	0	CORRELATION	0.4	0.4	0
742	0	CORRELATION	0.4	0.4	0
879	0	CORRELATION	0.4	0.4	0
880	0	CORRELATION	0.4	0.4	0

NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
5e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+13	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

6 Revision History

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

Changes from Revision * (November 2025) to Revision A (December 2025)	Page
• Updated Electrical Characteristics table to match datasheet.....	4
• Updated appendix data.....	11

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