

# TPS7H2140-SEP Neutron-Displacement Damage (NDD) Characterization



## ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the TPS7H2140-SEP device. The results show that all devices were fully functional and within production test limits after having been irradiated up to  $1 \times 10^{13}$  n / cm<sup>2</sup> (1-MeV(Si) equivalent.) A sample size of nine units was exposed to radiation testing per MIL-STD-883, Method 1017 for neutron irradiation, and an additional three devices were used as control units and were not irradiated. Electrical testing was performed at Texas Instruments before and after neutron irradiation using the production test program for TPS7H2140-SEP.

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## 1 Overview

The TPS7H2140-SEP device is a fully protected quad-channel eFuse with four integrated 160-mΩ NMOS power FETs. Full diagnostics and high-accuracy current sense enables intelligent control of the loads. An external adjustable current limit improves the reliability of whole system by limiting the inrush or overload current.

**Table 1-1. Overview Information**

TI Part Number	TPS7H2140-SEP
VID number	v62 / 23610
Device name	TPS7H2140MPWPTSEP
Device function	Quad-channel eFuse
Technology	LBC8MV (Linear BiCMOS 8)
Unbiased quantity tested	9
Exposure facility	VPT rad
Neutron Fluence (1-MeV equivalent)	$1.0 \times 10^{12}$ , $5.0 \times 10^{12}$ , $1.0 \times 10^{13}$ n / cm <sup>2</sup>
Irradiation temperature	Room temperature
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## 2 Test Procedures

The TPS7H2140-SEP was electrically pre and post-tested using the production automated test equipment program.

General test procedures adhered to MIL-STD-883, Method 1017 for neutron irradiation of TPS7H2140-SEP. Neutron irradiation conditions are listed in [Table 2-1](#).

**Table 2-1. Neutron Irradiation Conditions**

Group	Sample Quantity	Neutron Fluence (n / cm <sup>2</sup> )	Bias
A	3	$1.0 \times 10^{12}$	Unbiased
B	3	$5.0 \times 10^{12}$	Unbiased
C	3	$1.0 \times 10^{13}$	Unbiased



Figure 2-1. TPS7H2140-SEP Device (Front)

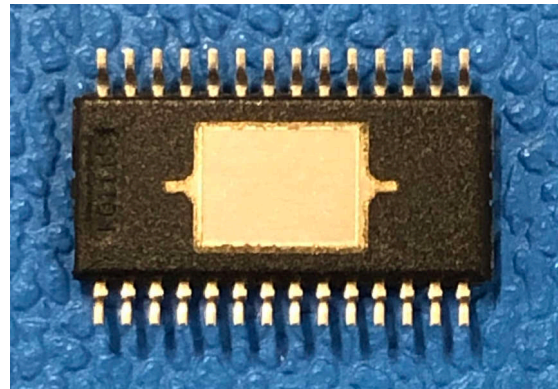


Figure 2-2. TPS7H2140-SEP Device (Back)

### 3 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 has a maximum thermal energy output of up to 1 MW. The Fast Neutron Irradiator (FNI) faces one side of the reactor core. The FNI design produces a geometrical planar beam of fast neutrons that is approximately uniform over an area of 12 in × 20 in. 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 150 rad (Si) for a  $1E12 \text{ n / cm}^2$  (1 MeV Si equivalent) exposure. The FNI can accommodate a sample or samples with size up to 30 cm in diameter and 15 cm thick including packaging materials. The minimum neutron fluence rate is  $1E6 \text{ n / cm}^2\text{s}$ . The maximum neutron fluence rate is approximately  $1.0 E11 \text{ n / cm}^2\text{s}$ . (Both values are 1 MeV Si equivalent.)

The neutron fluence rate is determined using the 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 make sure that irradiations meet the required minimum. The facility retains source credibility 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 with dry thimbles connected to the irradiation volume.

## 4 Results

All devices were within the data sheet limits up to  $5e + 12 \text{ n / cm}^2$ . All parameters with the exception of shutdown current for max  $V_{IN}$  on one unit were within the data sheet limits at  $1e + 13 \text{ n / cm}^2$ . The full parameter list is shown in [Section 4.1](#) and the related data can be found in [Appendix A](#).

### 4.1 Data Sheet Electrical Parameters and Associated Tests

The TPS7H2140-SEP Data Sheet Electrical Parameters are comprised of electrical and switching characteristics lists as shown in the following tables.

Parameter		Test Conditions		MIN	TYP	MAX	Unit	Tests
<b>OPERATING VOLTAGE</b>								
$I_{N_{UVLOR}}$	Internal $V_{IN}$ UVLO rising			3.5	3.7	4	V	6.1
$I_{N_{UVLOF}}$	Internal $V_{IN}$ UVLO falling			3	3.2	3.4		6.2
$HYST_{IN-UVLO}$	Internal $V_{IN}$ UVLO hysteresis				0.5			6.3
<b>OPERATING CURRENT</b>								
$I_Q$	Quiescent current with diagnostics disabled	ENx = 5 V, DIAG_EN = 0 V, $I_{OUTX} = 0$ A, current limit = 2 A, all channels on				7.0	mA	5.9, 5.10, 5.11, 5.12
$I_{Q\_DIAG}$	Quiescent current with diagnostics enabled	ENx = DIAG_EN = 5 V, $I_{OUTX} = 0$ A, current limit = 2 A, all channels on				6.2		5.5, 5.6, 5.7, 5.8
$I_{SD}$	Shutdown current with diagnostics disabled	ENx = DIAG_EN = $I_{OUTX} = THER = 0$ V	$T_A = 25^\circ\text{C}$			0.5	$\mu\text{A}$	5.13, 5.14, 5.15, 5.16
			$T_A = 125^\circ\text{C}$			5		
$I_{SD\_DIAG}$	Shutdown current with diagnostic enabled	ENx = 0 V, DIAG_EN = 5 V, $V_{IN} - V_{OUTX} < V_{OL\_OFF}$ , not in open-load mode				5	mA	5.17, 5.18, 5.19, 5.20
$t_{LOW\_OFF}$	ENx signal low time during cycling	ENx from high to low, if elapsed time $> t_{LOW\_OFF}$ , the device enters into standby mode		10	12.5	15	ms	5.49, 5.50, 5.51, 5.52
$I_F$	IN to $I_{OUTX}$ forward leakage current	ENx = DIAG_EN = $I_{OUTX} = 0$	$T_A = 25^\circ\text{C}$			0.5	$\mu\text{A}$	5.21, 5.22, 5.23, 5.24, 5.25, 5.26, 5.27, 5.28, 5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.36
			$T_A = 125^\circ\text{C}$			8		
<b>POWER STAGE</b>								
$R_{ON}$	On-state resistance		$T_A = 25^\circ\text{C}$			165	m $\Omega$	12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 12.8, 12.9, 12.10, 12.11, 12.12, 12.13, 12.14, 12.15, 12.16
			$T_A = 125^\circ\text{C}$			280		

Parameter		Test Conditions		MIN	TYP	MAX	Unit	Tests
$\Delta R_{ON}$	Percentage Difference in On-state resistance between channels ( $R_{ON\_CHx} - R_{ON\_CHy}$ )		$T_A = 25^\circ\text{C}$			6%		12.17, 12.18, 12.19, 12.20, 12.21, 12.22, 12.23, 12.24, 12.25, 12.26, 12.27, 12.28, 12.29, 12.30, 12.31, 12.32, 12.33, 12.34, 12.35, 12.36, 12.37, 12.38, 12.39, 12.40
$I_{CL\_INTERNAL}$	Internal current limit	Internal current limit value, CL pin connected to GND			11		A	
$I_{CL\_INTERNAL\_TSD}$	Current limit during thermal shutdown	Internal current limit value under thermal shutdown			6.5			
$I_{CL\_TSD}$	Current limit during thermal shutdown	External current limit value under thermal shutdown. The percentage of the external current limit setting value			70%			
$V_{DS\_CLAMP}$	Source-to-drain body diode voltage			50		70	V	14.2, 14.4, 14.6, 14.8
<b>OUTPUT DIODE CHARACTERISTICS</b>								
$V_F$	Drain-source diode voltage	$ENx = 0, I_{OUTx} = -0.15\text{ A}$		0.3	0.7	0.9	V	8.5, 8.6, 8.7, 8.8
$I_{R1}$	Continuous reverse current from source to drain	$t < 60\text{ s}, V_{IN} = 24\text{ V}, ENx = 0\text{ V}$ . Single channel reversed current to supply	$T_A = 25^\circ\text{C}$		2.5		A	
$I_{R2}$	Continuous reverse current from source to drain	$t < 60\text{ s}, V_{IN} = 24\text{ V}, ENx = 0\text{ V}$ . GND pin 1-k $\Omega$ resistor in parallel with diode. Reverse-current condition, All channels reversed	$T_A = 25^\circ\text{C}$		2.0			
<b>LOGIC INPUT (ENx, DIAG_EN, SEL, SEH, THER)</b>								
$V_{IH}$	Logic high-level voltage			2			V	7.101, 7.401, 7.701, 7.1001, 7.131, 7.161, 7.191
$V_{IL}$	Logic low-level voltage					0.8		7.201, 7.501, 7.801, 7.111, 7.141, 7.171, 7.2001
$R_{PULL\_DOWN}$	Logic-pin pulldown resistor	$V_{IN} = V_{DIAG\_EN} = 5\text{ V}$		200	275	350	k $\Omega$	7.29
		$V_{IN} = V_{ENx} = V_{SEL} = V_{SEH} = V_{THER} = 5\text{ V}$		100	175	250		7.22, 7.23, 7.24, 7.25, 7.26, 7.27, 7.28
<b>DIAGNOSTICS</b>								
$I_{GND\_LOSS}$	Output leakage current under GND loss condition					100	$\mu\text{A}$	8.1, 8.2, 8.3, 8.4
$V_{OL\_OFF}$	Open load detection threshold	$V_{ENx} = 0\text{ V}$ , when $V_{IN} - V_{OUTx} > V_{OL\_OFF}$ . Duration longer than $t_{OL\_OFF}$ , then open load is detected, off state.		1.6		2.6	V	9.1
$t_{OL\_OFF}$	Open-load detection threshold deglitch time	$V_{ENx} = 0\text{ V}$ , when $V_{IN} - V_{OUTx} > V_{OL\_OFF}$ . Duration longer than $t_{OL\_OFF}$ , then open load is detected, off state		300	550	800	$\mu\text{s}$	9.11
$I_{OL\_OFF}$	Off-state output sink current	$V_{ENx} = 0\text{ V}, V_{DIAG\_EN} = 5\text{ V}, V_{IN} - V_{OUTx} = 24\text{ V}$ , open load				100	$\mu\text{A}$	9.2, 9.3, 9.4, 9.5
$V_{OL\_FAULT}$	Fault low-output voltage	$I_{FAULT} = 2\text{ mA}$				0.2	V	9.10
$t_{CL\_DEGLITCH}$	Deglitch time when current limit occurs	$ENx = DIAG\_EN = 5\text{ V}$ . The deglitch time from current limit event to FAULT = Low and $V_{CS\_FAULT}$				220	$\mu\text{s}$	15.29

Parameter		Test Conditions	MIN	TYP	MAX	Unit	Tests
T <sub>SD</sub>	Thermal shutdown threshold		160	175		°C	
T <sub>SD_RST</sub>	Thermal shutdown status reset threshold			155			
T <sub>sw</sub>	Thermal swing shutdown threshold			60			
T <sub>HYS</sub>	Hysteresis for resetting the thermal shutdown or thermal swing			10			
<b>CURRENT SENSE AND CURRENT LIMIT</b>							
K <sub>CS</sub>	Current sense ratio			300			10.25, 10.26, 10.27, 10.28, 10.29, 10.30, 10.31, 10.32, 10.33, 10.34, 10.35, 10.36, 10.37, 10.38, 10.39, 10.40, 10.41, 10.42, 10.43, 10.44, 10.45, 10.46, 10.47, 10.48
K <sub>CL</sub>	Current limit ratio			2500			11.15, 11.16, 11.17, 11.18, 11.19, 11.20, 11.21, 11.22, 11.39, 11.40, 11.41, 11.42, 11.43, 11.44, 11.45, 11.46, 11.47, 11.48, 11.49, 11.50
V <sub>CL_TH</sub>	Current limit internal threshold voltage			0.8		V	

Parameter		Test Conditions	MIN	TYP	MAX	Unit	Tests
dK <sub>CS</sub> / K <sub>CS</sub>	Current sense accuracy, $(I_{CS} \times K_{CS} - I_{OUT}) / I_{OUT} \times 100$	$V_{IN} = 13.5 \text{ V}, I_{OUTx} \geq 5 \text{ mA}$	-65%		65%		10.1, 10.7, 10.13, 10.19
dK <sub>CS</sub> / K <sub>CS</sub>		$V_{IN} = 13.5 \text{ V}, I_{OUTx} \geq 25 \text{ mA}$	-15%		15%		10.2, 10.8, 10.14, 10.20
dK <sub>CS</sub> / K <sub>CS</sub>		$V_{IN} = 13.5 \text{ V}, I_{OUTx} \geq 50 \text{ mA}$	-8%		8%		10.3, 10.9, 10.15, 10.21
dK <sub>CS</sub> / K <sub>CS</sub>		$V_{IN} = 13.5 \text{ V}, I_{OUTx} \geq 100 \text{ mA}$	-4%		4%		10.4, 10.10, 10.16, 10.22
dK <sub>CL</sub> / K <sub>CL</sub>	External current limit accuracy, $(I_{OUTx} - I_{CL} \times K_{CL}) \times 100 / (I_{CL} \times K_{CL})$	$V_{IN} = 13.5 \text{ V}, I_{LIMIT} \geq 250 \text{ mA}$	-20%		20%		11.1, 11.3, 11.5, 11.7
		$V_{IN} = 13.5 \text{ V}, 2 \text{ A} \leq I_{LIMIT} \leq 4 \text{ A}$	-15%		15%		11.23, 11.24, 11.25, 11.26, 11.27, 11.28, 11.29, 11.30, 11.31, 11.32, 11.33, 11.34
V <sub>CS_LINEAR</sub>	Current-sense voltage linear range	$V_{IN} \geq 6.5 \text{ V}$	0		4	V	10.761
		$5 \text{ V} \leq V_{IN} < 6.5 \text{ V}$	0		$V_{IN} - 2.5$		10.791
I <sub>OUTx_LINEAR</sub>	Output-current linear range	$V_{IN} \geq 6.5 \text{ V}, V_{CS\_LINEAR} \leq 4 \text{ V}$	0		2.5	A	
		$5 \text{ V} \leq V_{IN} < 6.5 \text{ V}, V_{CS\_LINEAR} \leq V_{IN} - 2.5 \text{ V}$	0		2.5		
V <sub>CS_FAULT</sub>	Current sense pin output voltage	$V_{IN} \geq 7 \text{ V}, \text{FAULT mode}$	4.5		6.5	V	9.12
		$5 \text{ V} \leq V_{IN} < 7 \text{ V}, \text{FAULT mode}$	Min( $V_{IN} - 2.3, 4.5$ )		6.5		
I <sub>CS_FAULT</sub>	Current-sense pin output current available in fault mode	$V_{CS} = 4.5 \text{ V}, V_{IN} > 7 \text{ V}$	15			mA	9.13
I <sub>CS_LEAK</sub>	Current-sense leakage current in disabled mode	$V_{DIAG\_EN} = 0 \text{ V}$			0.5	μA	
		$T_A = 125^\circ\text{C}$					



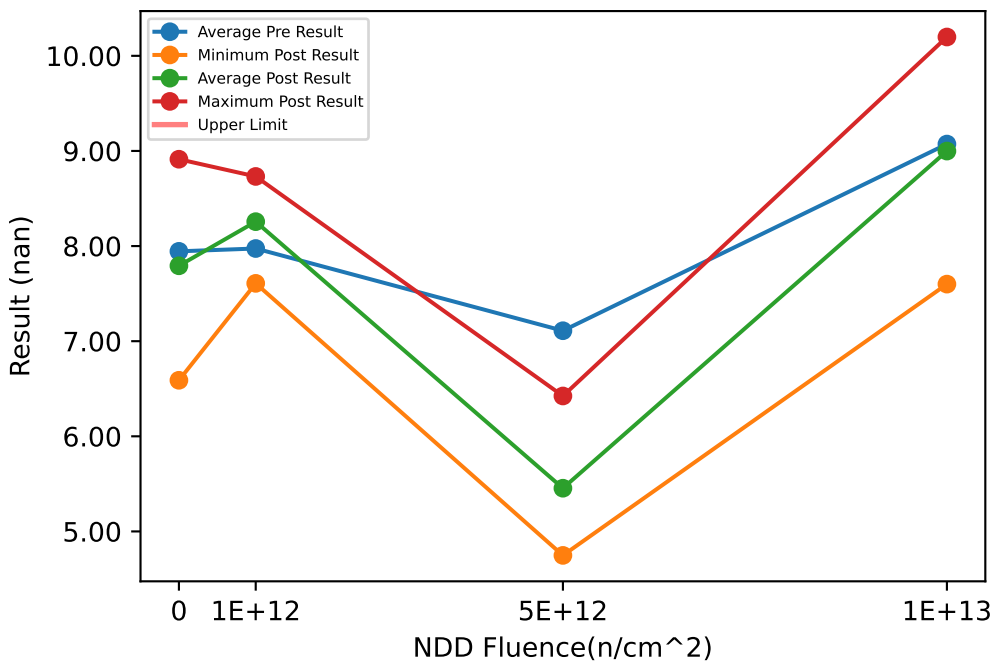
Parameter		TEST CONDITIONS	MIN	TYP	MAX	UNIT	Tests
<b>POWER STAGE</b>							
$t_{ON}$	Turn-on delay time	$V_{IN} = 13.5\text{ V}$ , $V_{DIAG\_EN} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ , from ENx rising edge to 10% of $V_{OUTx}$	20	50	90	$\mu\text{s}$	15.1, 15.8, 15.15, 15.22
$t_{OFF}$	Turn-off delay time	$V_{IN} = 13.5\text{ V}$ , $V_{DIAG\_EN} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ , from ENx falling edge to 90% of $V_{OUTx}$	20	50	90		15.2, 15.9, 15.16, 15.23
$t_{RISE}$	Channel turn-on time	$V_{IN} = 13.5\text{ V}$ , $V_{DIAG\_EN} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ , from 50% of ENx to 90% of $V_{OUTx}$	66	88	125		15.3, 15.10, 15.17, 15.24
$t_{FALL}$	Channel turn-off time	$V_{IN} = 13.5\text{ V}$ , $V_{DIAG\_EN} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ , from 50% of ENx to 10% of $V_{OUTx}$	66	88	125		15.4, 15.11, 15.18, 15.25
$t_{MATCH}$	$t_{RISE} - t_{FALL}$	$V_{IN} = 13.5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ . $t_{RISE}$ is the ENx rising edge to $V_{OUTx} = 90\%$ . $t_{FALL}$ is the ENx falling edge to $V_{OUTx} = 10\%$ .	-50		50		15.7, 15.14, 15.21, 15.28
$SR_{ON}$	Turn-on slew rate	$V_{IN} = 13.5\text{ V}$ , $V_{DIAG\_EN} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ , from ENx rising edge to 10% of $V_{OUTx}$	0.1	0.3	0.55	V/ $\mu\text{s}$	15.5, 15.12, 15.19, 15.26
$SR_{OFF}$	Turn-off slew rate	$V_{IN} = 13.5\text{ V}$ , $V_{DIAG\_EN} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ , from ENx falling edge to 90% of $V_{OUTx}$	0.1	0.3	0.55		15.6, 15.13, 15.20, 15.27
<b>CURRENT SENSE</b>							
$t_{CS\_OFF1}$	CS settling time from DIAG_EN disabled	$V_{IN} = 13.5\text{ V}$ , $V_{ENx} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ . Current Limit = 2 A. From $V_{DIAG\_EN}$ falling edge to 10% of $V_{CS}$ .			20	$\mu\text{s}$	16.1
$t_{CS\_ON1}$	CS settling time from DIAG_EN enabled	$V_{IN} = 13.5\text{ V}$ , $V_{ENx} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ . Current Limit = 2 A. From $V_{DIAG\_EN}$ rising edge to 90% of $V_{CS}$ .			20		16.2
$t_{CS\_OFF2}$	CS settling time from IN falling edge	$V_{IN} = 13.5\text{ V}$ , $V_{ENx} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ . Current Limit = 2 A. From $V_{ENx}$ falling edge to 10% of $V_{CS}$ .	30		100		16.3
$t_{CS\_ON2}$	CS settling time from IN rising edge	$V_{IN} = 13.5\text{ V}$ , $V_{ENx} = 5\text{ V}$ , $I_{OUTx} = 500\text{ mA}$ . Current Limit = 2 A. From $V_{ENx}$ rising edge to 90% of $V_{CS}$ .	50		150		16.4
$t_{MUX}$	Multi-sense transition delay from channel to channel	$V_{DIAG\_EN} = 5\text{ V}$ , current sense output delay when multi-sense pins SEL and SEH transition from channel to channel			50		16.5

## **A Appendix: Test Results**

This appendix contains the detailed NDD test results.

# Device Test: 10.1 UJR405(dCSR\_5mA\_CH1\_UJR405)

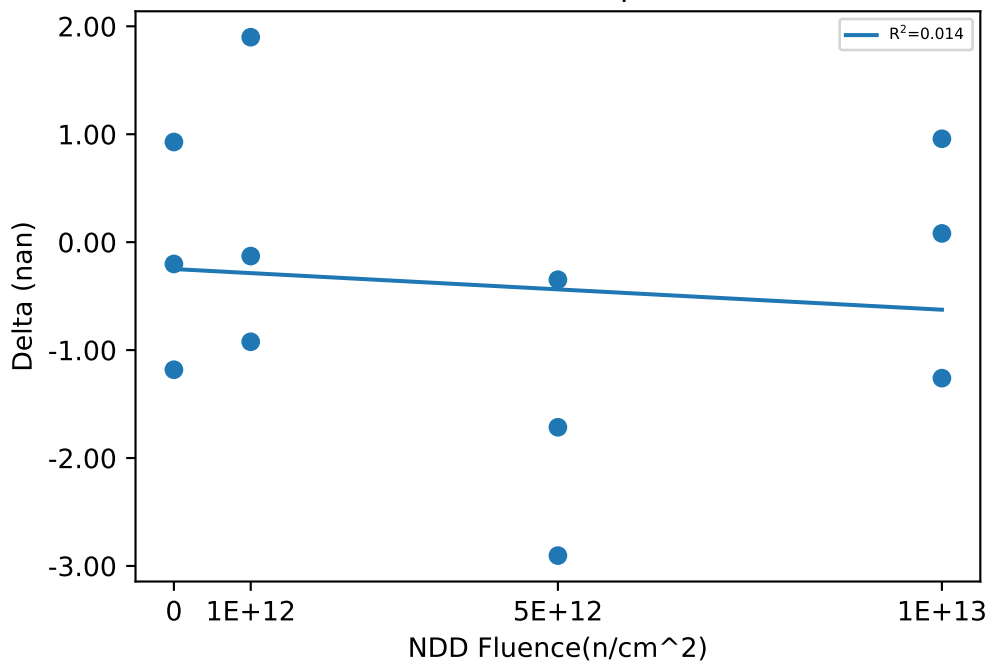
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	8.531	7.608	-0.923
2	1e+12	NDD, unbiased	8.559	8.43	-0.129
3	1e+12	NDD, unbiased	6.833	8.732	1.899
4	5e+12	NDD, unbiased	6.772	6.424	-0.348
5	5e+12	NDD, unbiased	8.095	5.191	-2.904
6	5e+12	NDD, unbiased	6.463	4.748	-1.715
7	1e+13	NDD, unbiased	8.86	7.6	-1.26
8	1e+13	NDD, unbiased	8.24	9.198	0.958
9	1e+13	NDD, unbiased	10.117	10.198	0.081
10	0	correlation	7.985	8.913	0.928
11	0	correlation	9.058	7.876	-1.182
12	0	correlation	6.791	6.589	-0.202

## NDD vs Post - Pre Exposure Delta

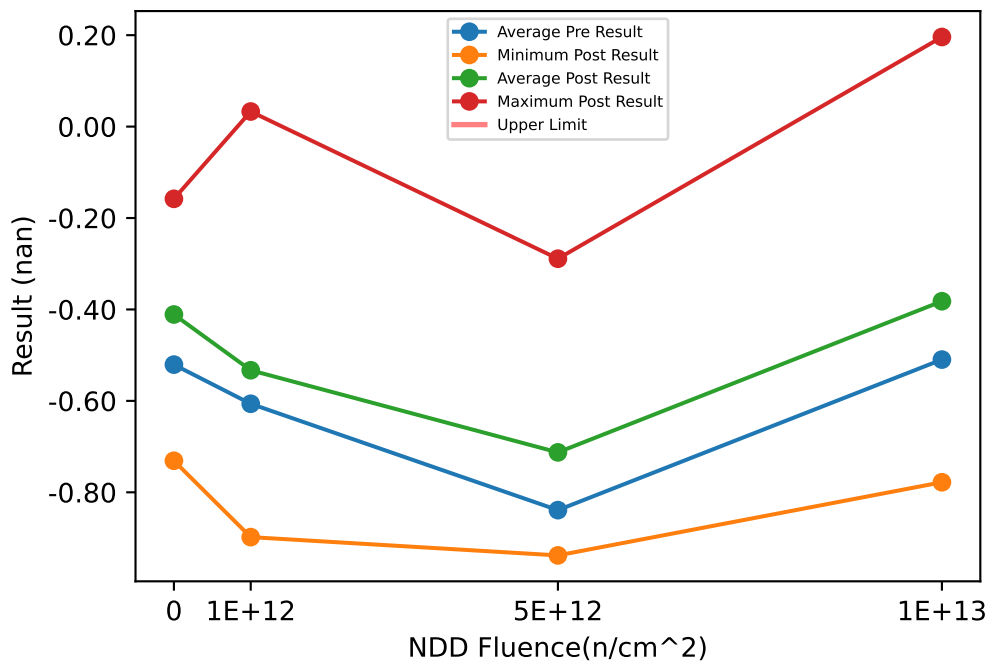


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.791	7.9447	9.058	1.134	6.589	7.7927	8.913	1.1642	-1.182	-0.152	0.928	1.0559
1e+12	6.833	7.9743	8.559	0.98852	7.608	8.2567	8.732	0.5817	-0.923	0.28233	1.899	1.4553
5e+12	6.463	7.11	8.095	0.86691	4.748	5.4543	6.424	0.86848	-2.904	-1.6557	-0.348	1.279
1e+13	8.24	9.0723	10.117	0.95635	7.6	8.9987	10.198	1.3104	-1.26	-0.073667	0.958	1.1171

# Device Test: 10.10 UJ74P3(dCSR\_100mA\_CH2\_UJ74P3)

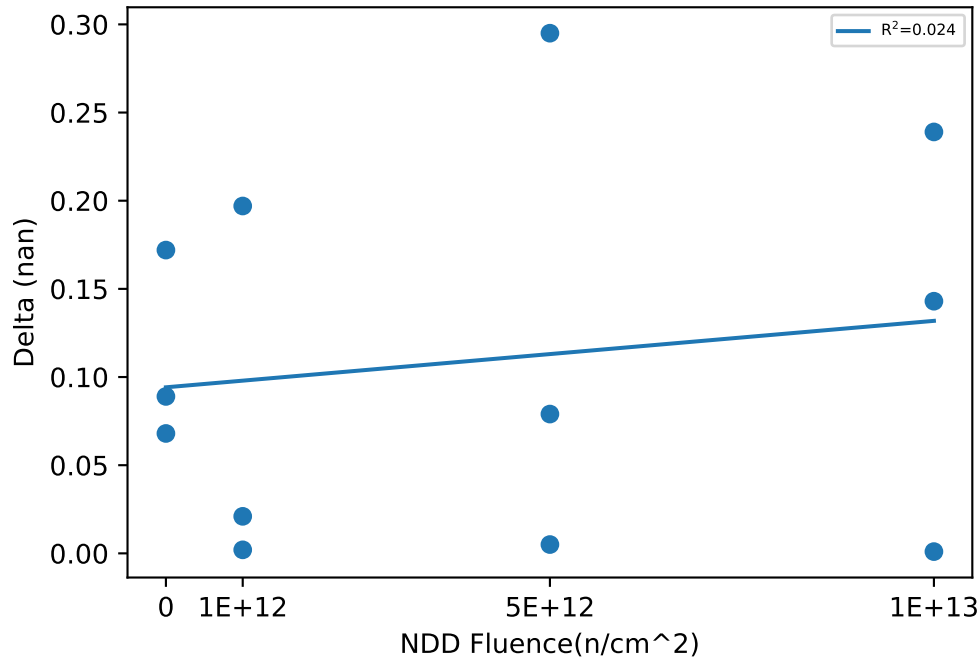
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.919	-0.898	0.021
2	1e+12	NDD, unbiased	-0.164	0.033	0.197
3	1e+12	NDD, unbiased	-0.736	-0.734	0.002
4	5e+12	NDD, unbiased	-0.584	-0.289	0.295
5	5e+12	NDD, unbiased	-0.943	-0.938	0.005
6	5e+12	NDD, unbiased	-0.99	-0.911	0.079
7	1e+13	NDD, unbiased	-0.803	-0.564	0.239
8	1e+13	NDD, unbiased	-0.779	-0.778	0.001
9	1e+13	NDD, unbiased	0.053	0.196	0.143
10	0	correlation	-0.33	-0.158	0.172
11	0	correlation	-0.433	-0.344	0.089
12	0	correlation	-0.799	-0.731	0.068

## NDD vs Post - Pre Exposure Delta

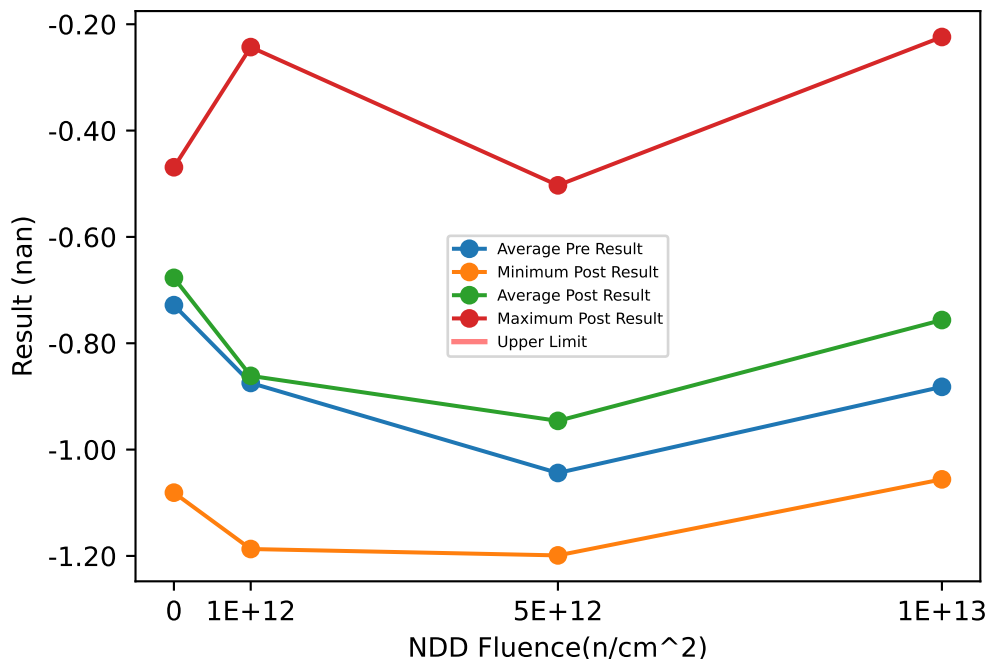


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.799	-0.52067	-0.33	0.24648	-0.731	-0.411	-0.158	0.29232	0.068	0.10967	0.172	0.054994
1e+12	-0.919	-0.60633	-0.164	0.39385	-0.898	-0.533	0.033	0.49698	0.002	0.073333	0.197	0.10752
5e+12	-0.99	-0.839	-0.584	0.22208	-0.938	-0.71267	-0.289	0.36715	0.005	0.12633	0.295	0.15068
1e+13	-0.803	-0.50967	0.053	0.48743	-0.778	-0.382	0.196	0.51187	0.001	0.12767	0.239	0.11974

# Device Test: 10.12 UJA0RR(dCSR\_500mA\_CH2\_UJA0RR)

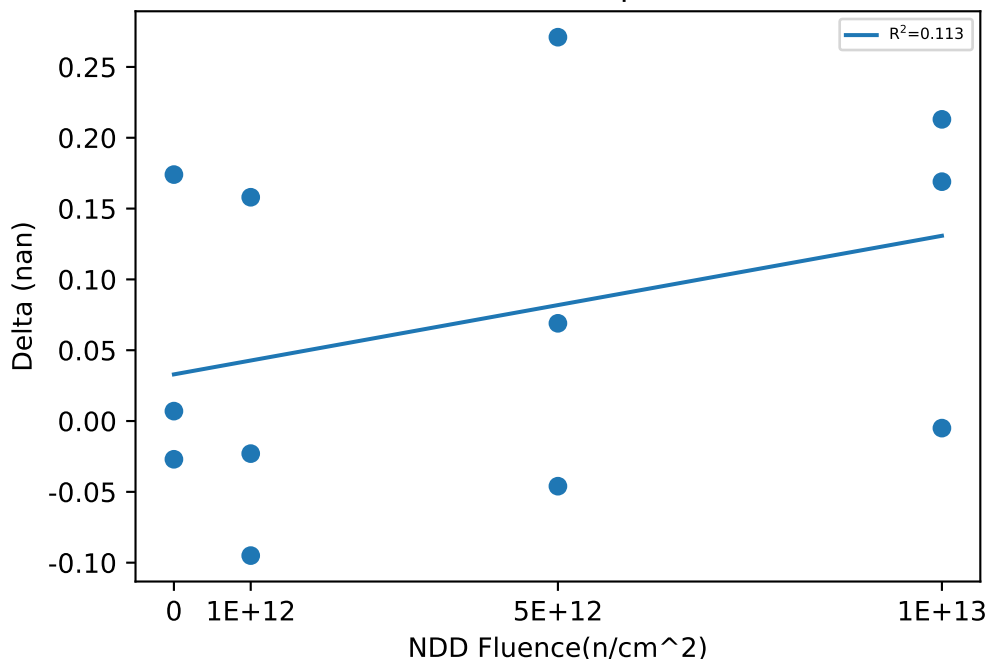
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-1.164	-1.187	-0.023
2	1e+12	NDD, unbiased	-0.401	-0.243	0.158
3	1e+12	NDD, unbiased	-1.059	-1.154	-0.095
4	5e+12	NDD, unbiased	-0.774	-0.503	0.271
5	5e+12	NDD, unbiased	-1.205	-1.136	0.069
6	5e+12	NDD, unbiased	-1.153	-1.199	-0.046
7	1e+13	NDD, unbiased	-1.202	-0.989	0.213
8	1e+13	NDD, unbiased	-1.225	-1.056	0.169
9	1e+13	NDD, unbiased	-0.219	-0.224	-0.005
10	0	correlation	-0.488	-0.481	0.007
11	0	correlation	-0.643	-0.469	0.174
12	0	correlation	-1.054	-1.081	-0.027

## NDD vs Post - Pre Exposure Delta

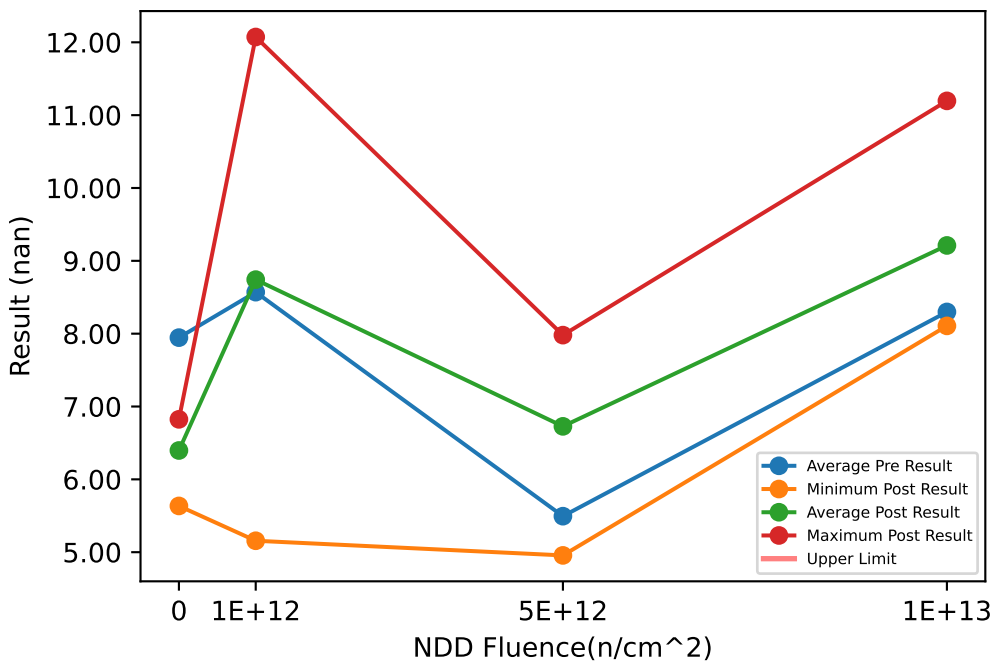


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.054	-0.72833	-0.488	0.29249	-1.081	-0.677	-0.469	0.34993	-0.027	0.051333	0.174	0.10758
1e+12	-1.164	-0.87467	-0.401	0.41355	-1.187	-0.86133	-0.243	0.53575	-0.095	0.013333	0.158	0.13035
5e+12	-1.205	-1.044	-0.774	0.23527	-1.199	-0.946	-0.503	0.38494	-0.046	0.098	0.271	0.16048
1e+13	-1.225	-0.882	-0.219	0.57429	-1.056	-0.75633	-0.224	0.46223	-0.005	0.12567	0.213	0.11528

# Device Test: 10.13 UJR405(dCSR\_5mA\_CH3\_UJR405)

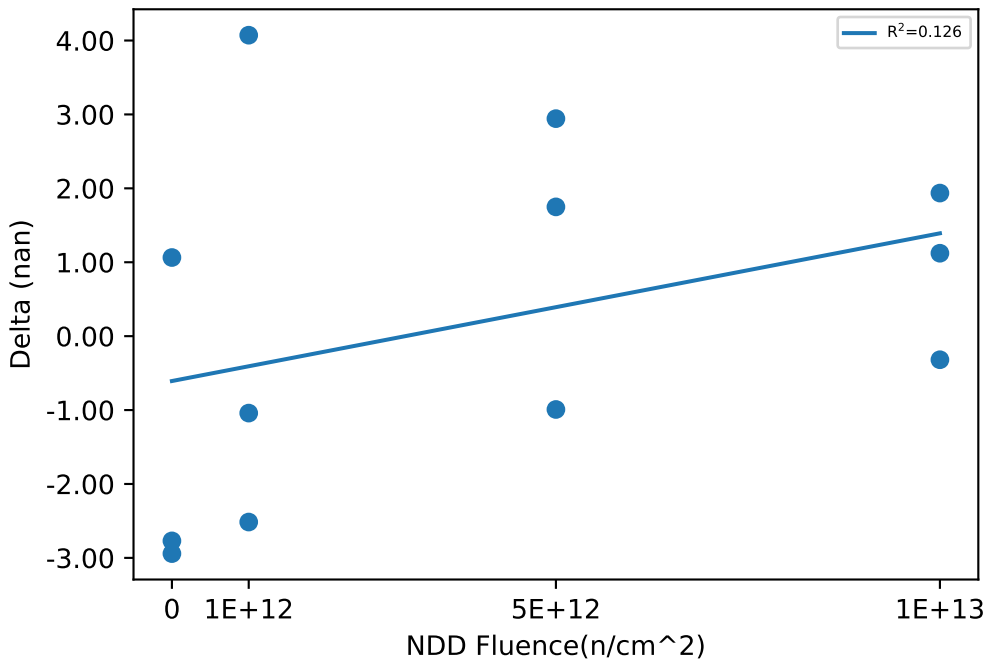
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	7.672	5.157	-2.515
2	1e+12	NDD, unbiased	10.037	8.996	-1.041
3	1e+12	NDD, unbiased	8.001	12.073	4.072
4	5e+12	NDD, unbiased	5.948	4.956	-0.992
5	5e+12	NDD, unbiased	5.037	7.98	2.943
6	5e+12	NDD, unbiased	5.498	7.247	1.749
7	1e+13	NDD, unbiased	8.426	8.107	-0.319
8	1e+13	NDD, unbiased	9.26	11.196	1.936
9	1e+13	NDD, unbiased	7.209	8.331	1.122
10	0	correlation	5.76	6.824	1.064
11	0	correlation	8.577	5.635	-2.942
12	0	correlation	9.5	6.73	-2.77

## NDD vs Post - Pre Exposure Delta

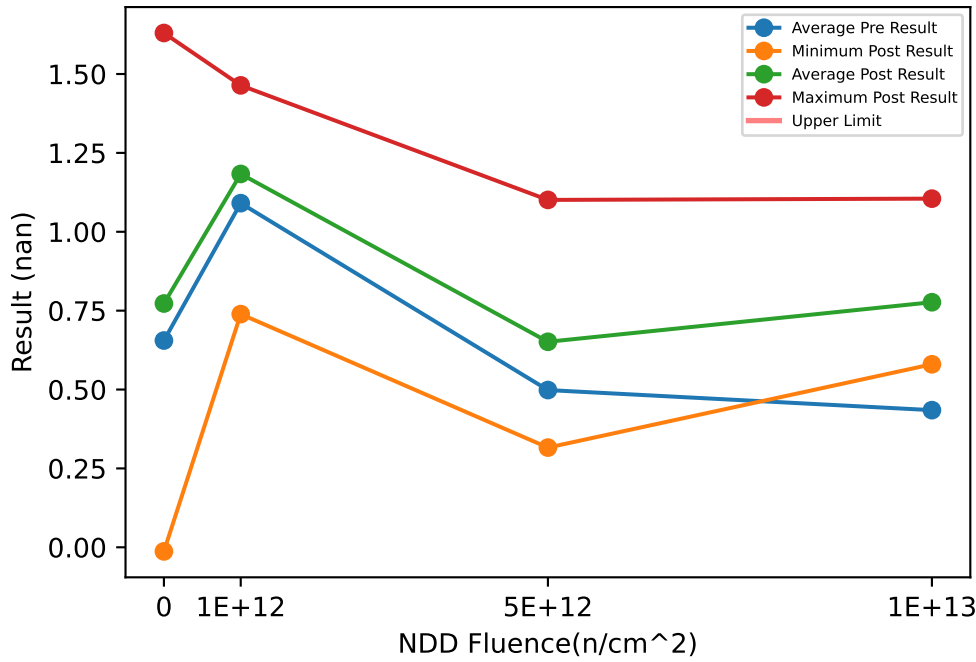


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.76	7.9457	9.5	1.9483	5.635	6.3963	6.824	0.66101	-2.942	-1.5493	1.064	2.2648
1e+12	7.672	8.57	10.037	1.2811	5.157	8.742	12.073	3.465	-2.515	0.172	4.072	3.457
5e+12	5.037	5.4943	5.948	0.45551	4.956	6.7277	7.98	1.5775	-0.992	1.2333	2.943	2.0175
1e+13	7.209	8.2983	9.26	1.0314	8.107	9.2113	11.196	1.7224	-0.319	0.913	1.936	1.1419

# Device Test: 10.14 UJFZSP(dCSR\_25mA\_CH3\_UJFZSP)

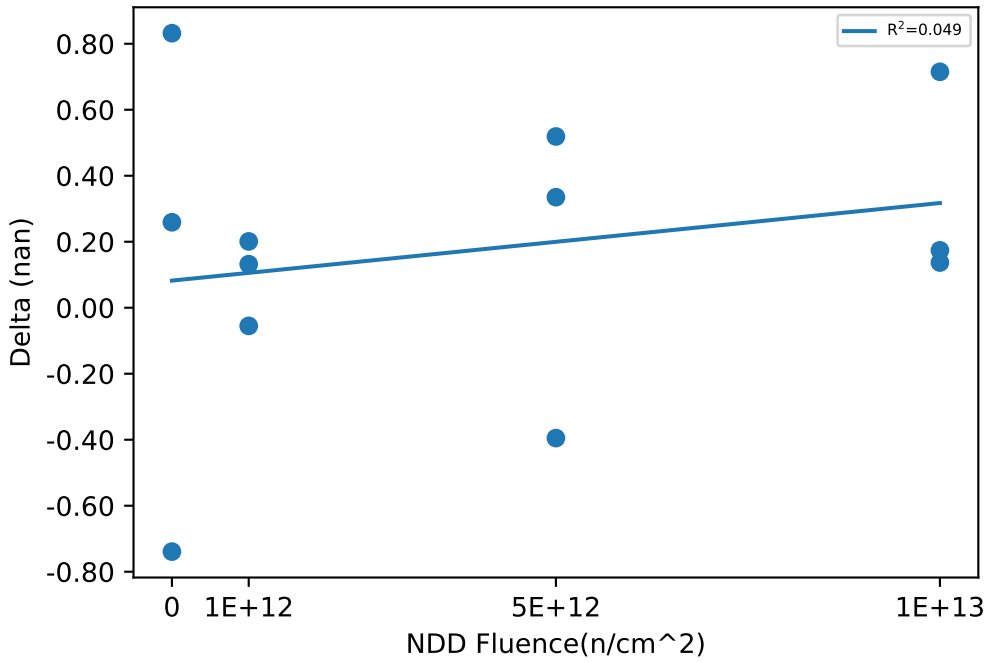
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.794	0.739	-0.055
2	1e+12	NDD, unbiased	1.215	1.347	0.132
3	1e+12	NDD, unbiased	1.263	1.464	0.201
4	5e+12	NDD, unbiased	0.582	1.101	0.519
5	5e+12	NDD, unbiased	0.711	0.316	-0.395
6	5e+12	NDD, unbiased	0.202	0.537	0.335
7	1e+13	NDD, unbiased	0.471	0.645	0.174
8	1e+13	NDD, unbiased	0.443	0.58	0.137
9	1e+13	NDD, unbiased	0.39	1.105	0.715
10	0	correlation	0.798	1.63	0.832
11	0	correlation	0.442	0.701	0.259
12	0	correlation	0.726	-0.013	-0.739

## NDD vs Post - Pre Exposure Delta

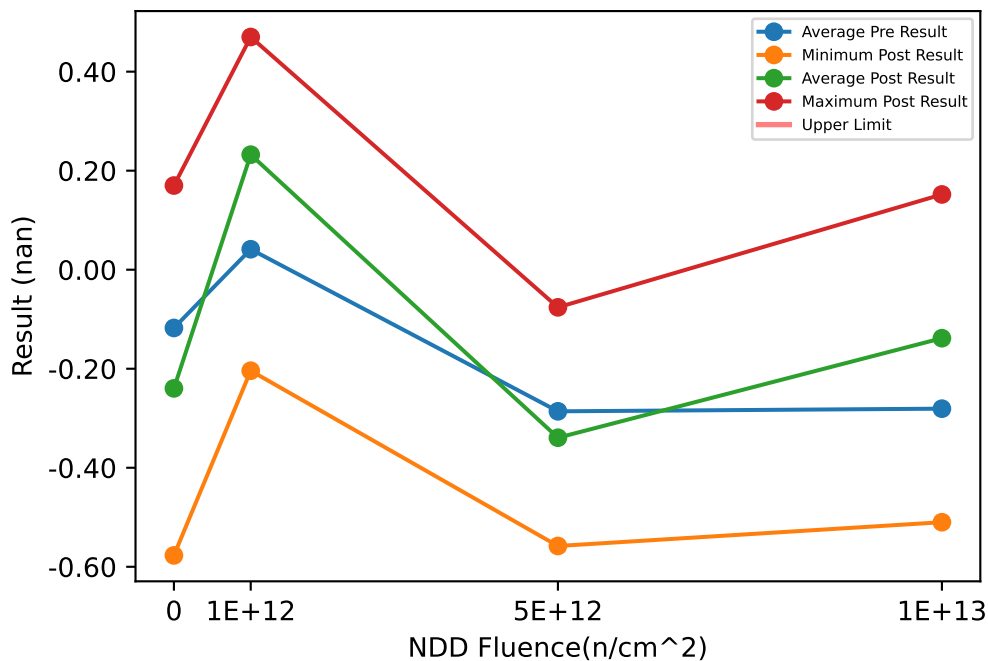


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.442	0.65533	0.798	0.18823	-0.013	0.77267	1.63	0.82384	-0.739	0.11733	0.832	0.79502
1e+12	0.794	1.0907	1.263	0.25804	0.739	1.1833	1.464	0.38923	-0.055	0.092667	0.201	0.13246
5e+12	0.202	0.49833	0.711	0.26461	0.316	0.65133	1.101	0.4048	-0.395	0.153	0.519	0.48342
1e+13	0.39	0.43467	0.471	0.041138	0.58	0.77667	1.105	0.2862	0.137	0.342	0.715	0.32356

# Device Test: 10.15 UJFOT(dCSR\_50mA\_CH3\_UJFOT)

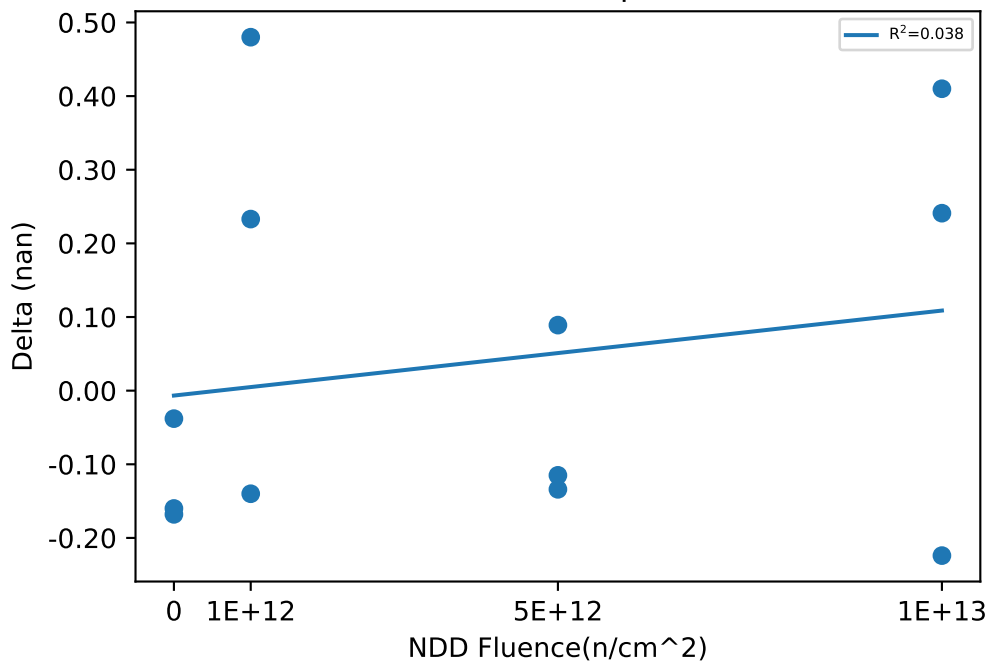
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.064	-0.204	-0.14
2	1e+12	NDD, unbiased	0.198	0.431	0.233
3	1e+12	NDD, unbiased	-0.01	0.47	0.48
4	5e+12	NDD, unbiased	0.039	-0.076	-0.115
5	5e+12	NDD, unbiased	-0.25	-0.384	-0.134
6	5e+12	NDD, unbiased	-0.647	-0.558	0.089
7	1e+13	NDD, unbiased	-0.298	-0.057	0.241
8	1e+13	NDD, unbiased	-0.286	-0.51	-0.224
9	1e+13	NDD, unbiased	-0.258	0.152	0.41
10	0	correlation	0.208	0.17	-0.038
11	0	correlation	-0.417	-0.577	-0.16
12	0	correlation	-0.144	-0.312	-0.168

## NDD vs Post - Pre Exposure Delta



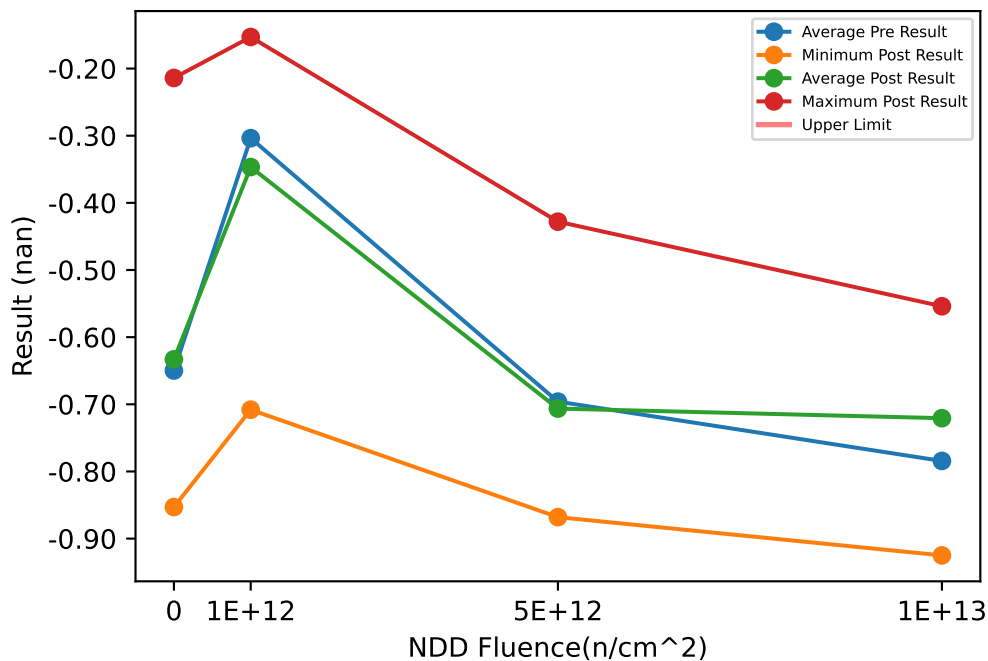
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.417	-0.11767	0.208	0.31333	-0.577	-0.23967	0.17	0.37872	-0.168	-0.122	-0.038	0.072856
1e+12	-0.064	0.041333	0.198	0.13834	-0.204	0.23233	0.47	0.37838	-0.14	0.191	0.48	0.31213
5e+12	-0.647	-0.286	0.039	0.34441	-0.558	-0.33933	-0.076	0.24408	-0.134	-0.053333	0.089	0.12363
1e+13	-0.298	-0.28067	-0.258	0.020526	-0.51	-0.13833	0.152	0.33841	-0.224	0.14233	0.41	0.32831



# Device Test: 10.16 UJ74P3(dCSR\_100mA\_CH3\_UJ74P3)

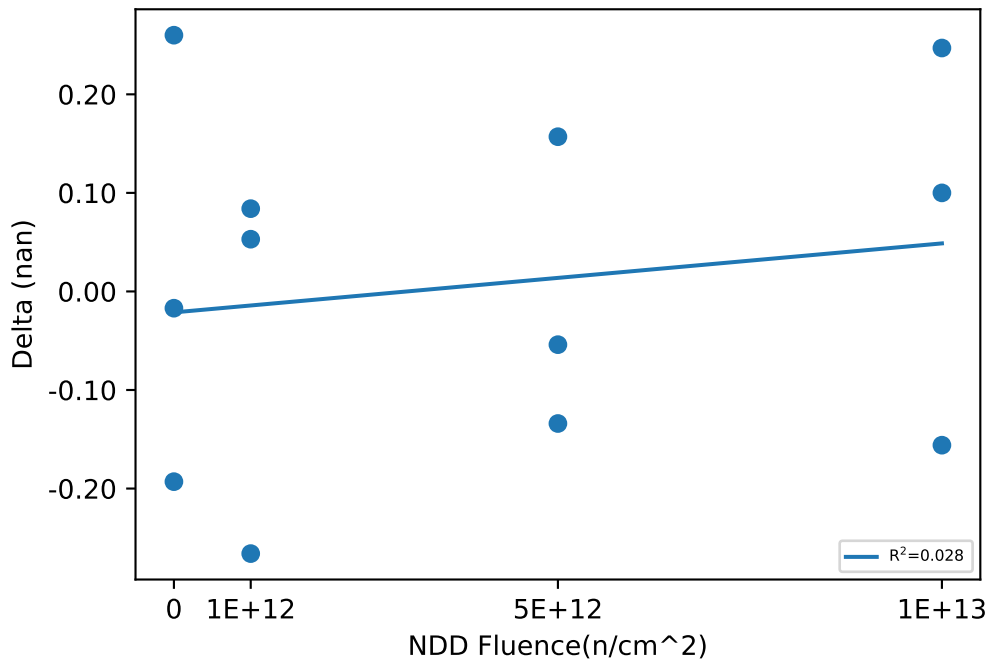
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.442	-0.708	-0.266
2	1e+12	NDD, unbiased	-0.232	-0.179	0.053
3	1e+12	NDD, unbiased	-0.237	-0.153	0.084
4	5e+12	NDD, unbiased	-0.374	-0.428	-0.054
5	5e+12	NDD, unbiased	-0.689	-0.823	-0.134
6	5e+12	NDD, unbiased	-1.025	-0.868	0.157
7	1e+13	NDD, unbiased	-0.801	-0.554	0.247
8	1e+13	NDD, unbiased	-0.769	-0.925	-0.156
9	1e+13	NDD, unbiased	-0.783	-0.683	0.1
10	0	correlation	-0.021	-0.214	-0.193
11	0	correlation	-1.113	-0.853	0.26
12	0	correlation	-0.815	-0.832	-0.017

## NDD vs Post - Pre Exposure Delta

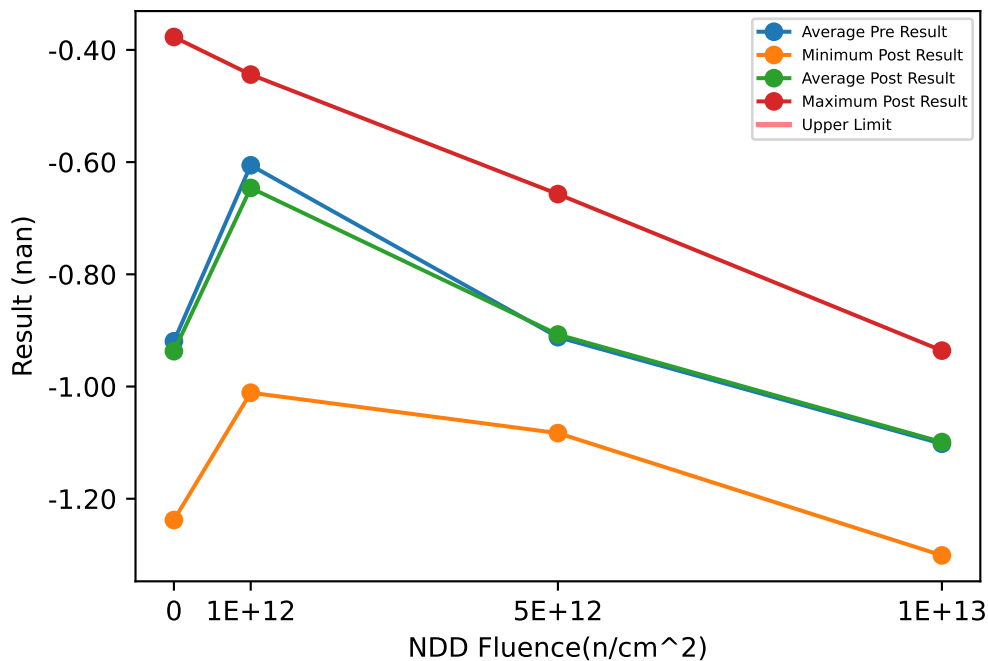


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.113	-0.64967	-0.021	0.56446	-0.853	-0.633	-0.214	0.36302	-0.193	0.016667	0.26	0.22837
1e+12	-0.442	-0.30367	-0.232	0.11983	-0.708	-0.34667	-0.153	0.31319	-0.266	-0.043	0.084	0.19374
5e+12	-1.025	-0.696	-0.374	0.32556	-0.868	-0.70633	-0.428	0.24209	-0.134	-0.010333	0.157	0.15033
1e+13	-0.801	-0.78433	-0.769	0.016042	-0.925	-0.72067	-0.554	0.18835	-0.156	0.063667	0.247	0.20394

# Device Test: 10.18 UJA0RR(dCSR\_500mA\_CH3\_UJA0RR)

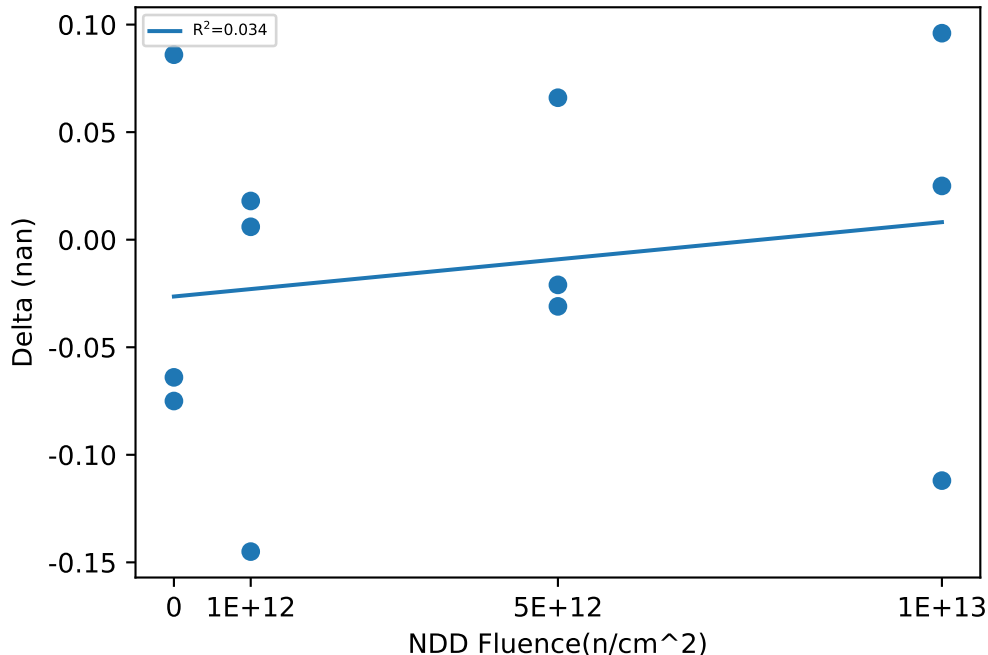
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.866	-1.011	-0.145
2	1e+12	NDD, unbiased	-0.45	-0.444	0.006
3	1e+12	NDD, unbiased	-0.501	-0.483	0.018
4	5e+12	NDD, unbiased	-0.636	-0.657	-0.021
5	5e+12	NDD, unbiased	-0.951	-0.982	-0.031
6	5e+12	NDD, unbiased	-1.149	-1.083	0.066
7	1e+13	NDD, unbiased	-1.032	-0.936	0.096
8	1e+13	NDD, unbiased	-1.189	-1.301	-0.112
9	1e+13	NDD, unbiased	-1.085	-1.06	0.025
10	0	correlation	-0.313	-0.377	-0.064
11	0	correlation	-1.324	-1.238	0.086
12	0	correlation	-1.121	-1.196	-0.075

## NDD vs Post - Pre Exposure Delta

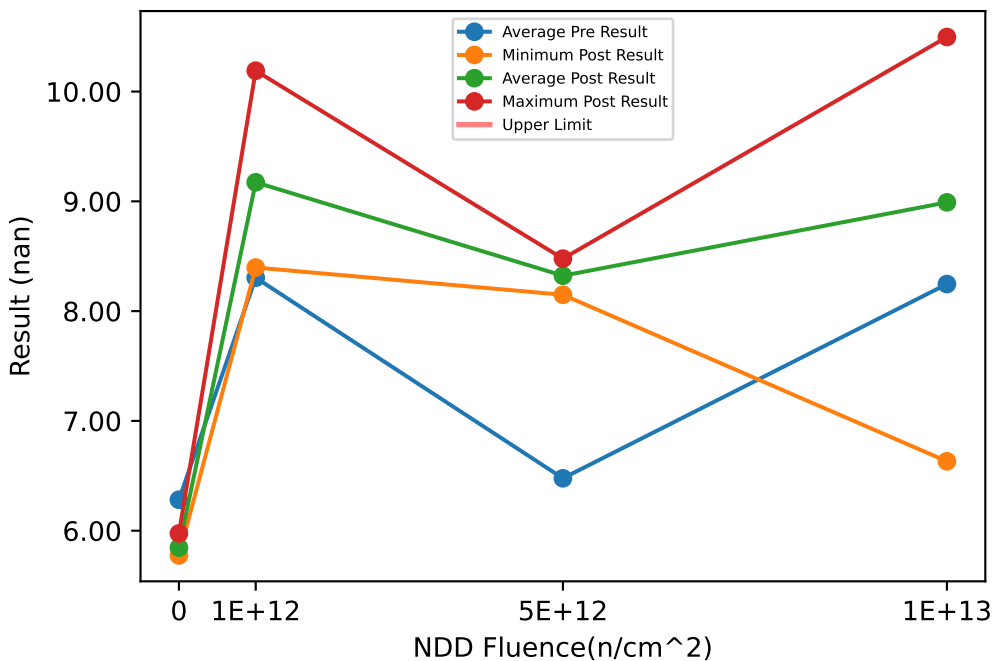


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.324	-0.91933	-0.313	0.53482	-1.238	-0.937	-0.377	0.48543	-0.075	-0.017667	0.086	0.089946
1e+12	-0.866	-0.60567	-0.45	0.22689	-1.011	-0.646	-0.444	0.3167	-0.145	-0.040333	0.018	0.090842
5e+12	-1.149	-0.912	-0.636	0.25871	-1.083	-0.90733	-0.657	0.2226	-0.031	0.0046667	0.066	0.053351
1e+13	-1.189	-1.102	-1.032	0.079869	-1.301	-1.099	-0.936	0.1856	-0.112	0.003	0.096	0.10573

# Device Test: 10.19 UJR405(dCSR\_5mA\_CH4\_UJR405)

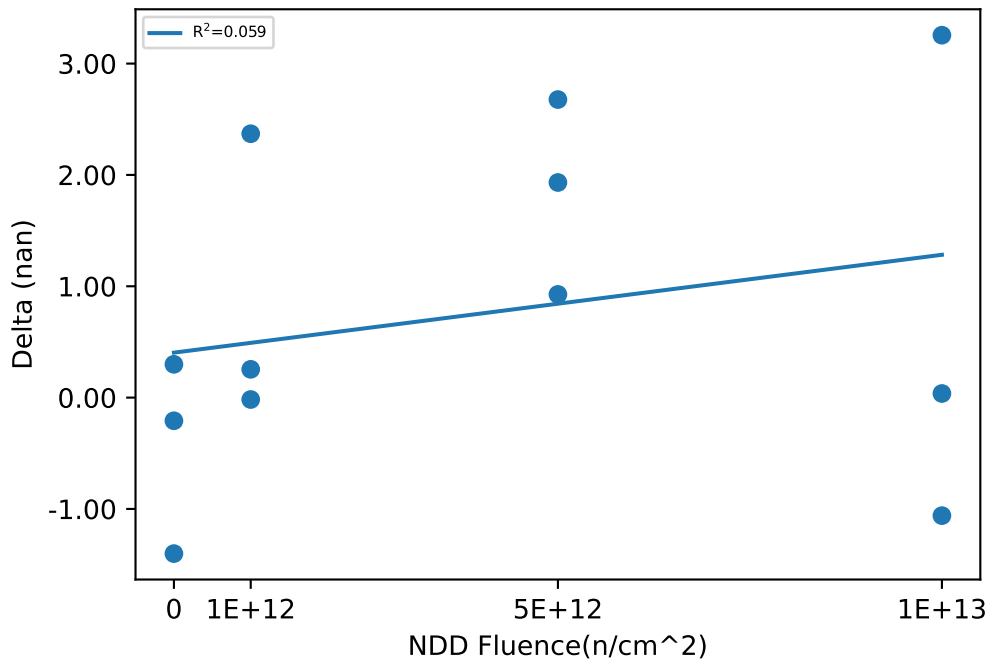
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	8.414	8.397	-0.017
2	1e+12	NDD, unbiased	9.936	10.19	0.254
3	1e+12	NDD, unbiased	6.563	8.933	2.37
4	5e+12	NDD, unbiased	6.217	8.149	1.932
5	5e+12	NDD, unbiased	5.801	8.478	2.677
6	5e+12	NDD, unbiased	7.414	8.341	0.927
7	1e+13	NDD, unbiased	7.692	6.632	-1.06
8	1e+13	NDD, unbiased	10.46	10.497	0.037
9	1e+13	NDD, unbiased	6.588	9.843	3.255
10	0	correlation	7.176	5.775	-1.401
11	0	correlation	5.994	5.786	-0.208
12	0	correlation	5.676	5.975	0.299

## NDD vs Post - Pre Exposure Delta

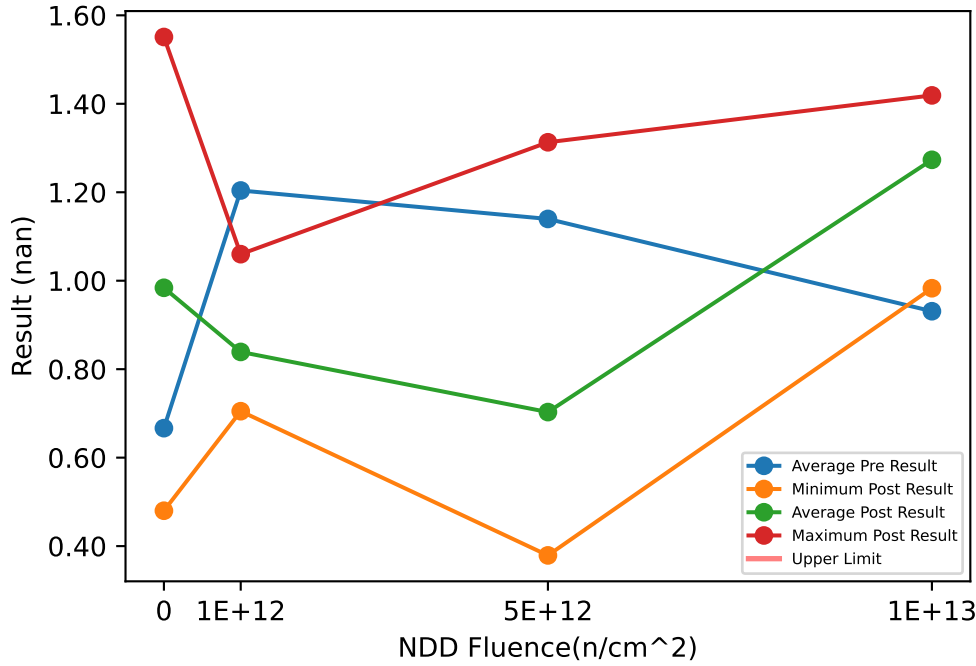


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.676	6.282	7.176	0.79038	5.775	5.8453	5.975	0.11243	-1.401	-0.43667	0.299	0.87276
1e+12	6.563	8.3043	9.936	1.6892	8.397	9.1733	10.19	0.92034	-0.017	0.869	2.37	1.3069
5e+12	5.801	6.4773	7.414	0.83742	8.149	8.3227	8.478	0.16526	0.927	1.8453	2.677	0.87821
1e+13	6.588	8.2467	10.46	1.9947	6.632	8.9907	10.497	2.0687	-1.06	0.744	3.255	2.2427

# Device Test: 10.2 UJFZSP(dCSR\_25mA\_CH1\_UJFZSP)

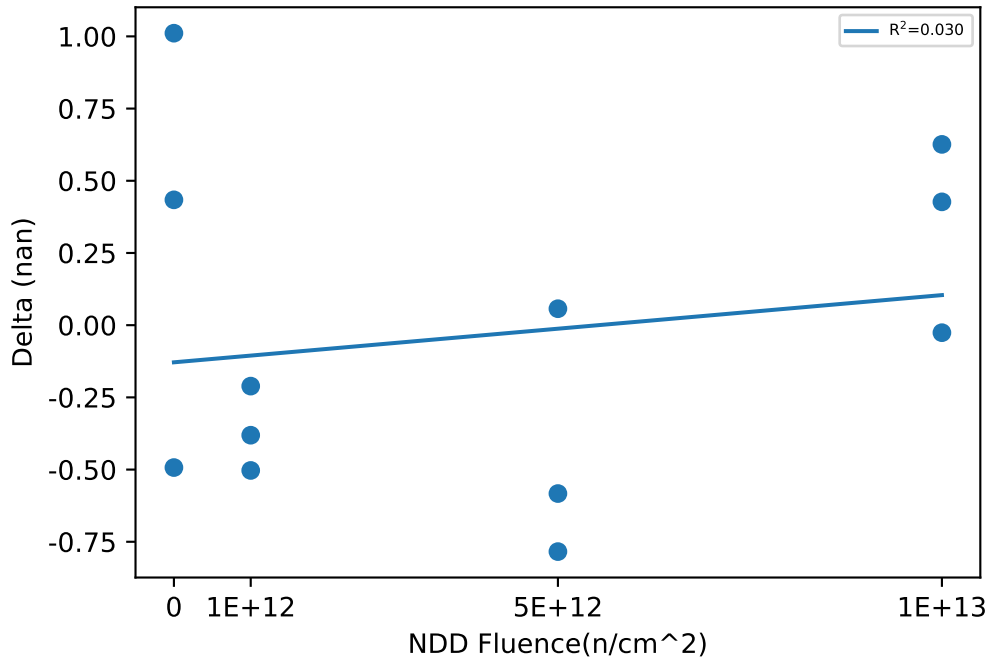
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.271	1.06	-0.211
2	1e+12	NDD, unbiased	1.255	0.752	-0.503
3	1e+12	NDD, unbiased	1.086	0.705	-0.381
4	5e+12	NDD, unbiased	1.256	1.313	0.057
5	5e+12	NDD, unbiased	0.962	0.379	-0.583
6	5e+12	NDD, unbiased	1.201	0.417	-0.784
7	1e+13	NDD, unbiased	0.792	1.418	0.626
8	1e+13	NDD, unbiased	0.556	0.983	0.427
9	1e+13	NDD, unbiased	1.445	1.419	-0.026
10	0	correlation	-0.09	0.921	1.011
11	0	correlation	0.973	0.48	-0.493
12	0	correlation	1.117	1.551	0.434

## NDD vs Post - Pre Exposure Delta

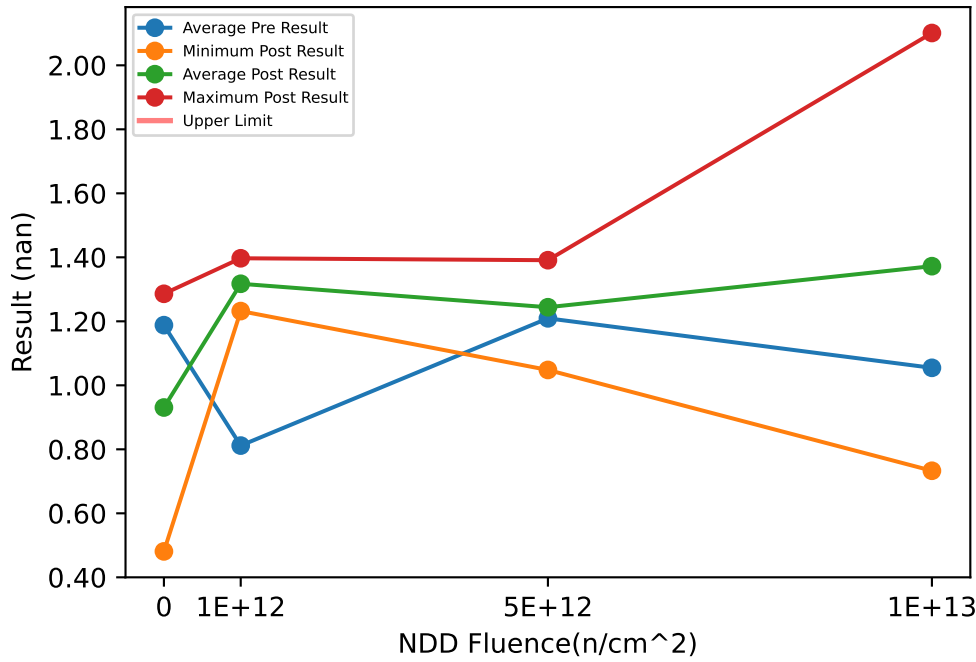


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.09	0.66667	1.117	0.65924	0.48	0.984	1.551	0.53827	-0.493	0.31733	1.011	0.75876
1e+12	1.086	1.204	1.271	0.1025	0.705	0.839	1.06	0.19283	-0.503	-0.365	-0.211	0.14666
5e+12	0.962	1.1397	1.256	0.1563	0.379	0.703	1.313	0.52862	-0.784	-0.43667	0.057	0.43918
1e+13	0.556	0.931	1.445	0.46051	0.983	1.2733	1.419	0.25144	-0.026	0.34233	0.626	0.33414

# Device Test: 10.20 UJFZSP(dCSR\_25mA\_CH4\_UJFZSP)

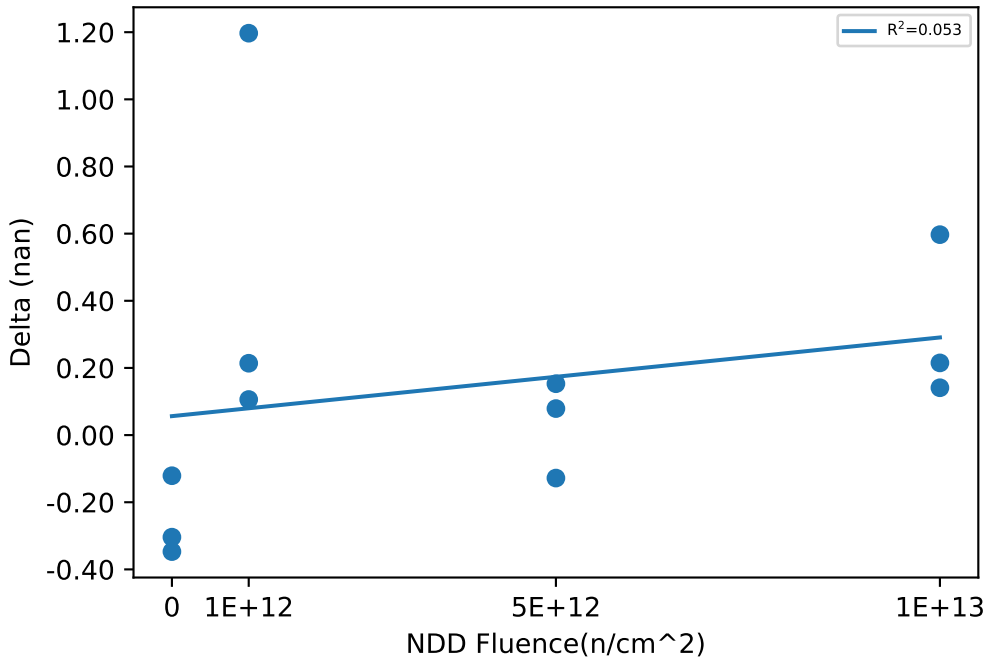
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.126	1.232	0.106
2	1e+12	NDD, unbiased	1.109	1.323	0.214
3	1e+12	NDD, unbiased	0.2	1.397	1.197
4	5e+12	NDD, unbiased	1.14	1.293	0.153
5	5e+12	NDD, unbiased	1.176	1.048	-0.128
6	5e+12	NDD, unbiased	1.312	1.391	0.079
7	1e+13	NDD, unbiased	0.592	0.733	0.141
8	1e+13	NDD, unbiased	1.068	1.283	0.215
9	1e+13	NDD, unbiased	1.504	2.101	0.597
10	0	correlation	0.828	0.481	-0.347
11	0	correlation	1.329	1.025	-0.304
12	0	correlation	1.407	1.286	-0.121

## NDD vs Post - Pre Exposure Delta

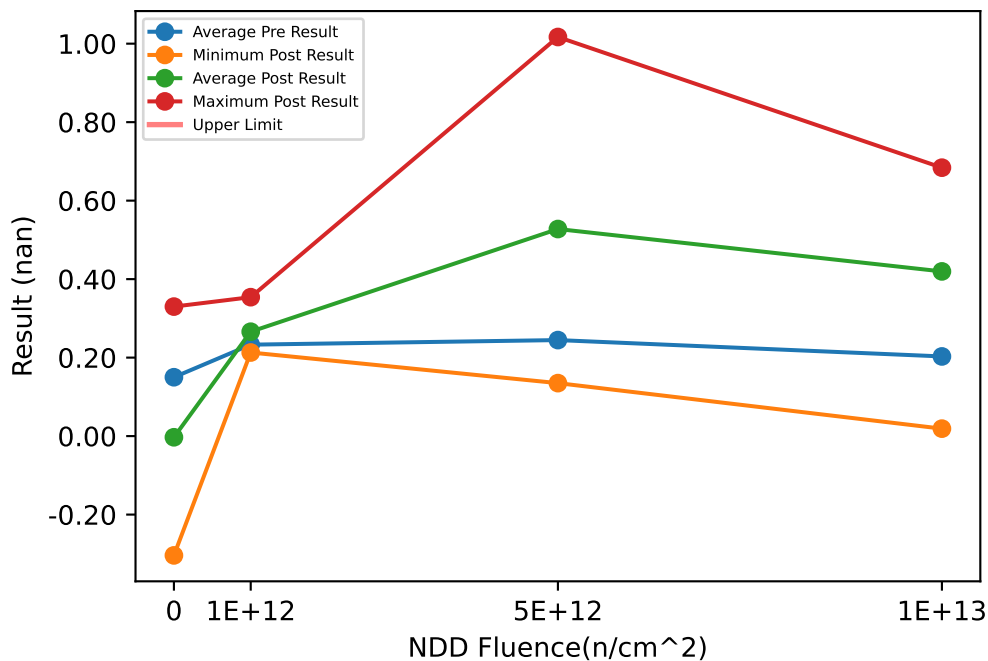


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.828	1.188	1.407	0.3142	0.481	0.93067	1.286	0.41071	-0.347	-0.25733	-0.121	0.12001
1e+12	0.2	0.81167	1.126	0.52979	1.232	1.3173	1.397	0.082646	0.106	0.50567	1.197	0.60114
5e+12	1.14	1.2093	1.312	0.090716	1.048	1.244	1.391	0.17667	-0.128	0.034667	0.153	0.14565
1e+13	0.592	1.0547	1.504	0.45615	0.733	1.3723	2.101	0.68836	0.141	0.31767	0.597	0.24472

# Device Test: 10.21 UJF0T(dCSR\_50mA\_CH4\_UJF0T)

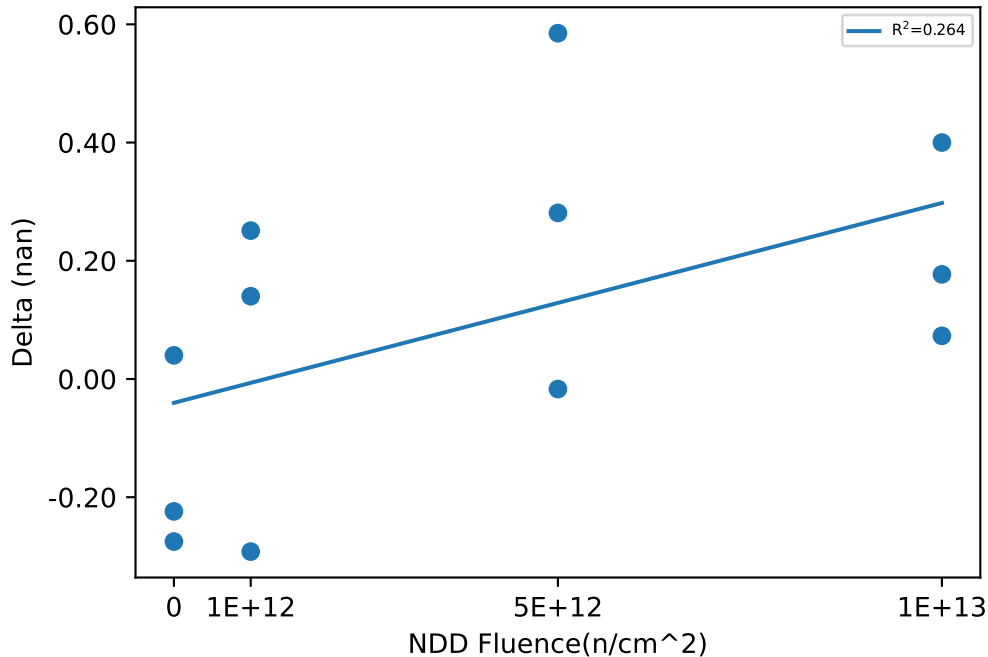
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.038	0.213	0.251
2	1e+12	NDD, unbiased	0.523	0.231	-0.292
3	1e+12	NDD, unbiased	0.214	0.354	0.14
4	5e+12	NDD, unbiased	0.15	0.431	0.281
5	5e+12	NDD, unbiased	0.152	0.135	-0.017
6	5e+12	NDD, unbiased	0.432	1.017	0.585
7	1e+13	NDD, unbiased	0.156	0.556	0.4
8	1e+13	NDD, unbiased	-0.054	0.019	0.073
9	1e+13	NDD, unbiased	0.507	0.684	0.177
10	0	correlation	-0.029	-0.304	-0.275
11	0	correlation	0.189	-0.035	-0.224
12	0	correlation	0.29	0.33	0.04

## NDD vs Post - Pre Exposure Delta

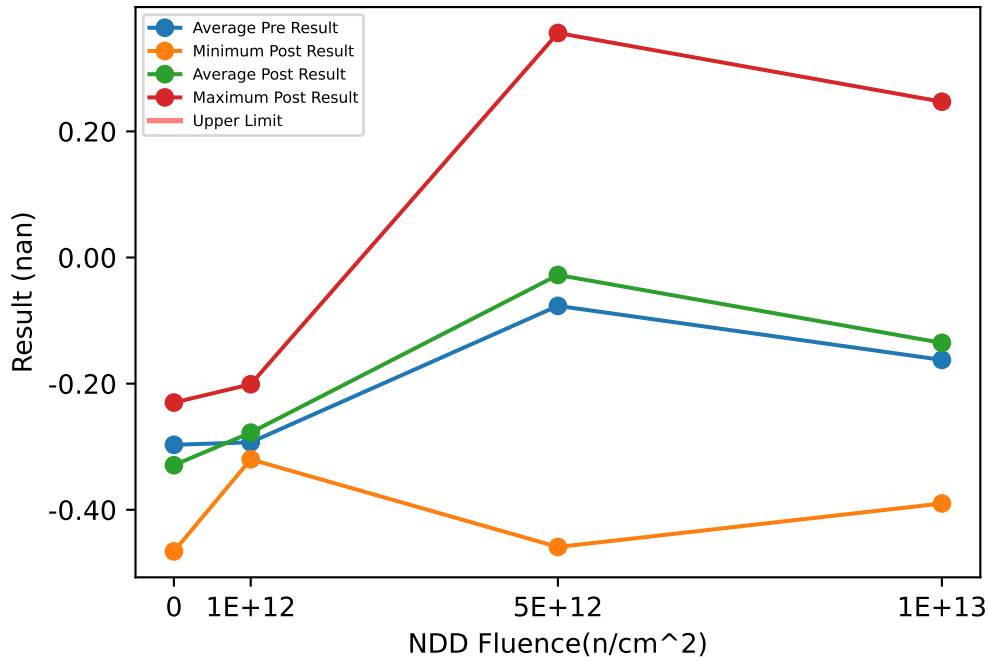


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.029	0.15	0.29	0.16304	-0.304	-0.003	0.33	0.31821	-0.275	-0.153	0.04	0.16908
1e+12	-0.038	0.233	0.523	0.28098	0.213	0.266	0.354	0.07674	-0.292	0.033	0.251	0.28688
5e+12	0.15	0.24467	0.432	0.16224	0.135	0.52767	1.017	0.44888	-0.017	0.283	0.585	0.301
1e+13	-0.054	0.203	0.507	0.28344	0.019	0.41967	0.684	0.35284	0.073	0.21667	0.4	0.16707

# Device Test: 10.22 UJ74P3(dCSR\_100mA\_CH4\_UJ74P3)

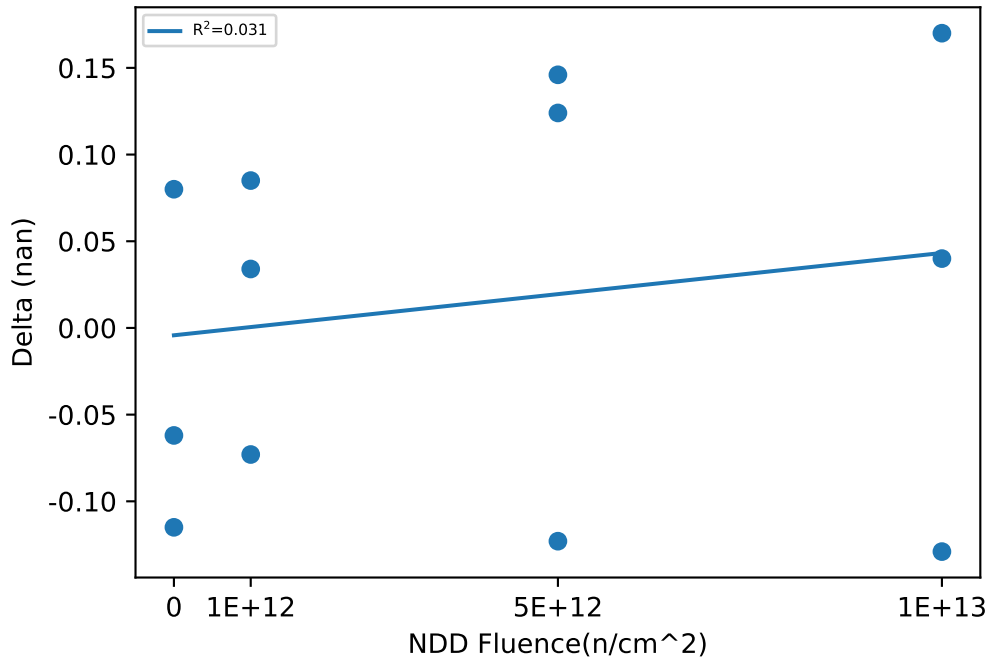
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.286	-0.201	0.085
2	1e+12	NDD, unbiased	-0.346	-0.312	0.034
3	1e+12	NDD, unbiased	-0.247	-0.32	-0.073
4	5e+12	NDD, unbiased	-0.104	0.02	0.124
5	5e+12	NDD, unbiased	-0.336	-0.459	-0.123
6	5e+12	NDD, unbiased	0.21	0.356	0.146
7	1e+13	NDD, unbiased	-0.303	-0.263	0.04
8	1e+13	NDD, unbiased	-0.261	-0.39	-0.129
9	1e+13	NDD, unbiased	0.077	0.247	0.17
10	0	correlation	-0.546	-0.466	0.08
11	0	correlation	-0.23	-0.292	-0.062
12	0	correlation	-0.115	-0.23	-0.115

## NDD vs Post - Pre Exposure Delta

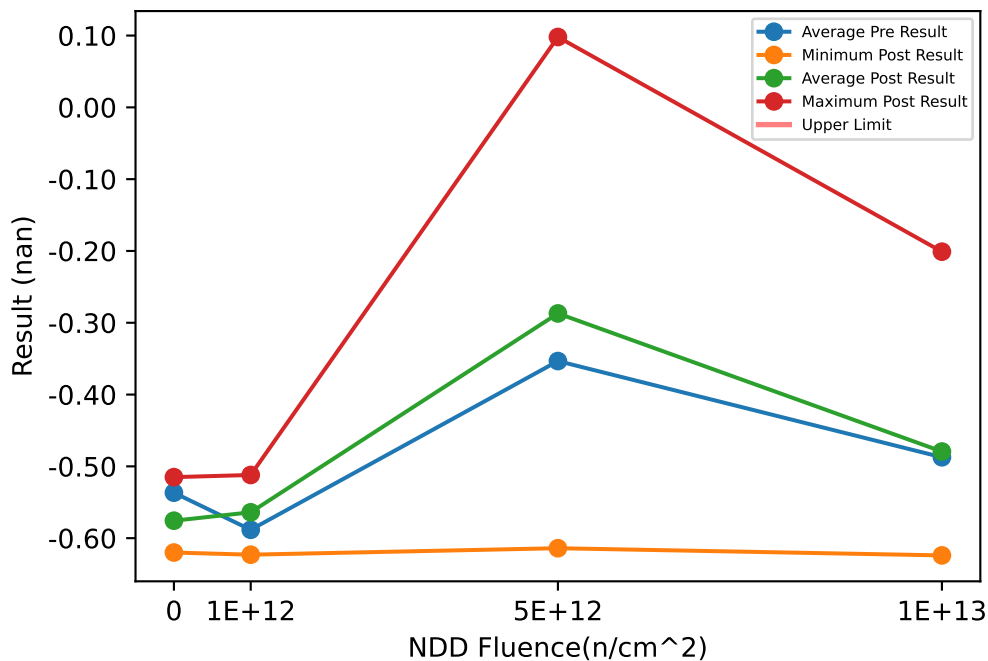


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.546	-0.297	-0.115	0.22317	-0.466	-0.32933	-0.23	0.12235	-0.115	-0.032333	0.08	0.10083
1e+12	-0.346	-0.293	-0.247	0.04987	-0.32	-0.27767	-0.201	0.066516	-0.073	0.015333	0.085	0.080637
5e+12	-0.336	-0.076667	0.21	0.27402	-0.459	-0.027667	0.356	0.40959	-0.123	0.049	0.146	0.14936
1e+13	-0.303	-0.16233	0.077	0.20833	-0.39	-0.13533	0.247	0.33714	-0.129	0.027	0.17	0.14992

# Device Test: 10.24 UJA0RR(dCSR\_500mA\_CH4\_UJA0RR)

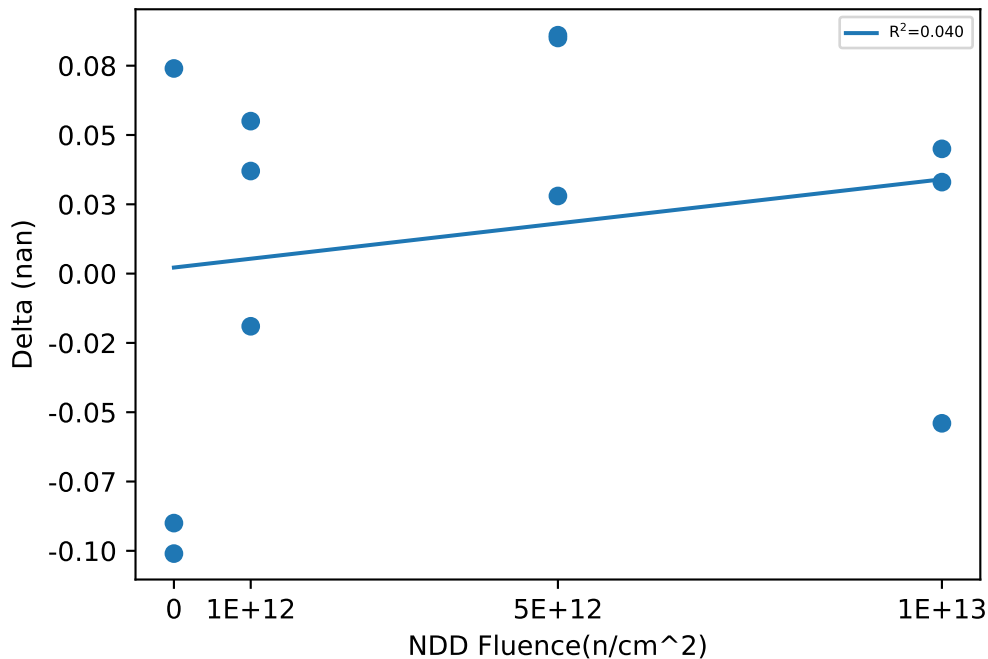
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.549	-0.512	0.037
2	1e+12	NDD, unbiased	-0.612	-0.557	0.055
3	1e+12	NDD, unbiased	-0.604	-0.623	-0.019
4	5e+12	NDD, unbiased	-0.373	-0.345	0.028
5	5e+12	NDD, unbiased	-0.7	-0.614	0.086
6	5e+12	NDD, unbiased	0.013	0.098	0.085
7	1e+13	NDD, unbiased	-0.559	-0.613	-0.054
8	1e+13	NDD, unbiased	-0.669	-0.624	0.045
9	1e+13	NDD, unbiased	-0.234	-0.201	0.033
10	0	correlation	-0.694	-0.62	0.074
11	0	correlation	-0.491	-0.592	-0.101
12	0	correlation	-0.425	-0.515	-0.09

## NDD vs Post - Pre Exposure Delta



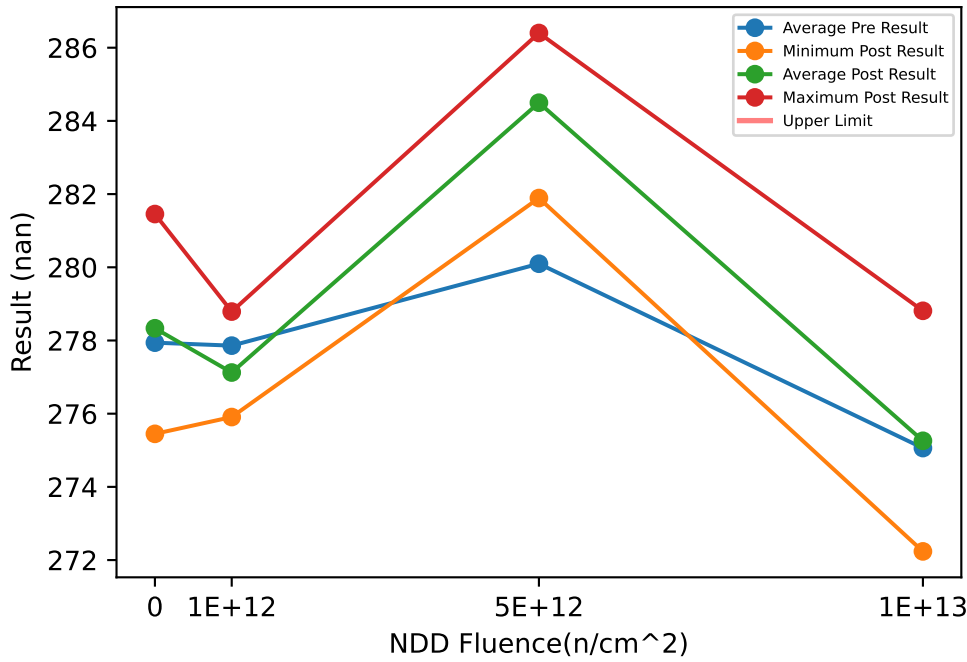
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.694	-0.53667	-0.425	0.14019	-0.62	-0.57567	-0.515	0.054372	-0.101	-0.039	0.074	0.098015
1e+12	-0.612	-0.58833	-0.549	0.034298	-0.623	-0.564	-0.512	0.05583	-0.019	0.024333	0.055	0.038592
5e+12	-0.7	-0.35333	0.013	0.35691	-0.614	-0.287	0.098	0.35953	0.028	0.066333	0.086	0.033201
1e+13	-0.669	-0.48733	-0.234	0.22618	-0.624	-0.47933	-0.201	0.24111	-0.054	0.008	0.045	0.054028



# Device Test: 10.25 UJXOZU(Kcs\_5mA\_CH1\_UJXOZU)

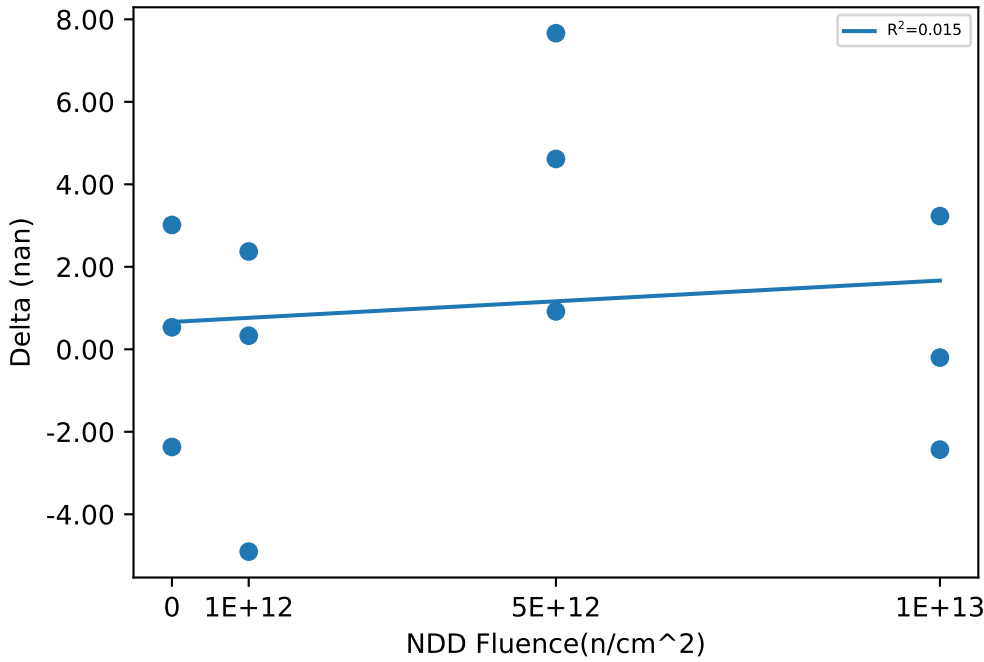
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	276.42	278.79	2.371
2	1e+12	NDD, unbiased	276.35	276.68	0.33
3	1e+12	NDD, unbiased	280.81	275.91	-4.905
4	5e+12	NDD, unbiased	280.97	281.89	0.919
5	5e+12	NDD, unbiased	277.53	285.2	7.664
6	5e+12	NDD, unbiased	281.79	286.4	4.615
7	1e+13	NDD, unbiased	275.58	278.81	3.229
8	1e+13	NDD, unbiased	277.16	274.73	-2.433
9	1e+13	NDD, unbiased	272.44	272.24	-0.201
10	0	correlation	277.82	275.45	-2.368
11	0	correlation	275.08	278.1	3.015
12	0	correlation	280.92	281.45	0.533

## NDD vs Post - Pre Exposure Delta

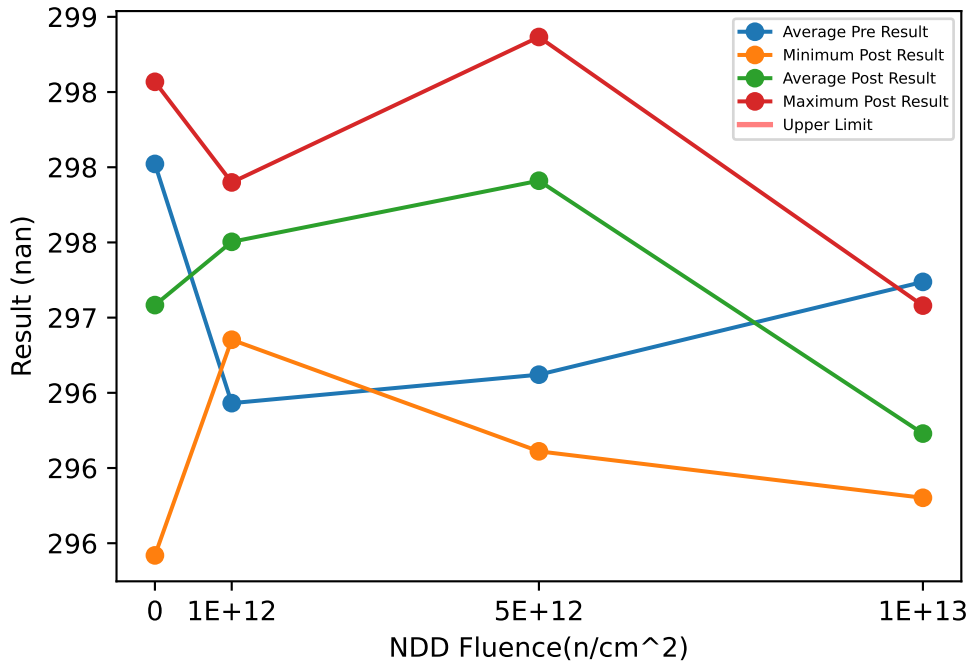


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	275.08	277.94	280.92	2.9215	275.45	278.33	281.45	3.0099	-2.368	0.39333	3.015	2.6942
1e+12	276.35	277.86	280.81	2.5582	275.91	277.12	278.79	1.4925	-4.905	-0.73467	2.371	3.753
5e+12	277.53	280.1	281.79	2.258	281.89	284.5	286.4	2.3351	0.919	4.3993	7.664	3.3777
1e+13	272.44	275.06	277.16	2.4048	272.24	275.26	278.81	3.3189	-2.433	0.19833	3.229	2.852

# Device Test: 10.26 UJXOZU(Kcs\_25mA\_CH1\_UJXOZU)

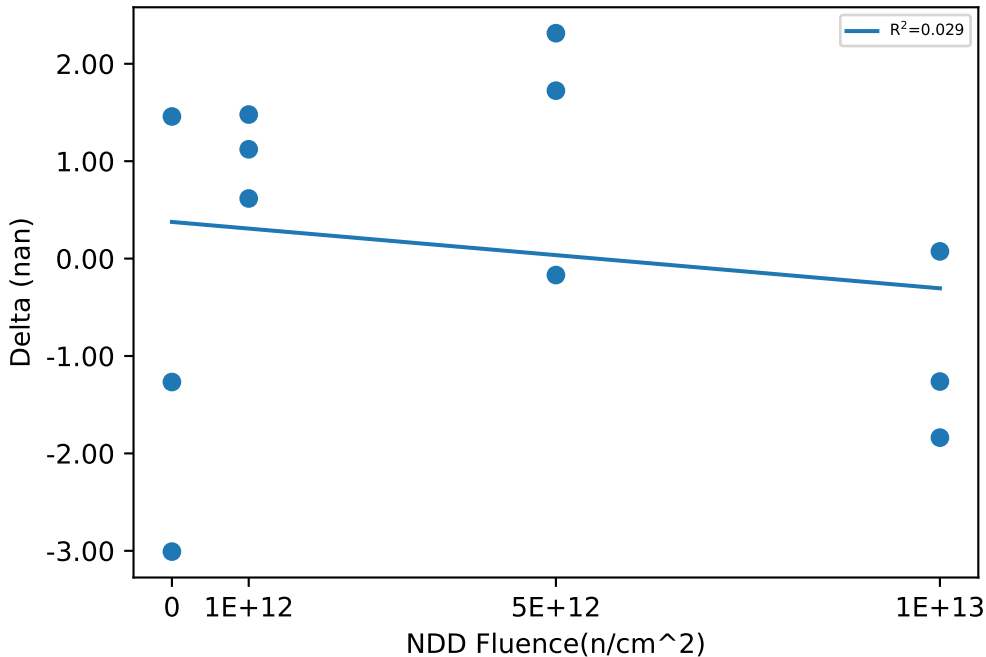
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	296.24	296.85	0.617
2	1e+12	NDD, unbiased	296.28	297.76	1.479
3	1e+12	NDD, unbiased	296.78	297.9	1.122
4	5e+12	NDD, unbiased	296.28	296.11	-0.169
5	5e+12	NDD, unbiased	297.14	298.87	1.724
6	5e+12	NDD, unbiased	296.44	298.75	2.314
7	1e+13	NDD, unbiased	297.64	295.81	-1.838
8	1e+13	NDD, unbiased	298.34	297.08	-1.262
9	1e+13	NDD, unbiased	295.73	295.8	0.074
10	0	correlation	300.27	297.26	-3.008
11	0	correlation	297.11	298.57	1.459
12	0	correlation	296.69	295.42	-1.267

## NDD vs Post - Pre Exposure Delta

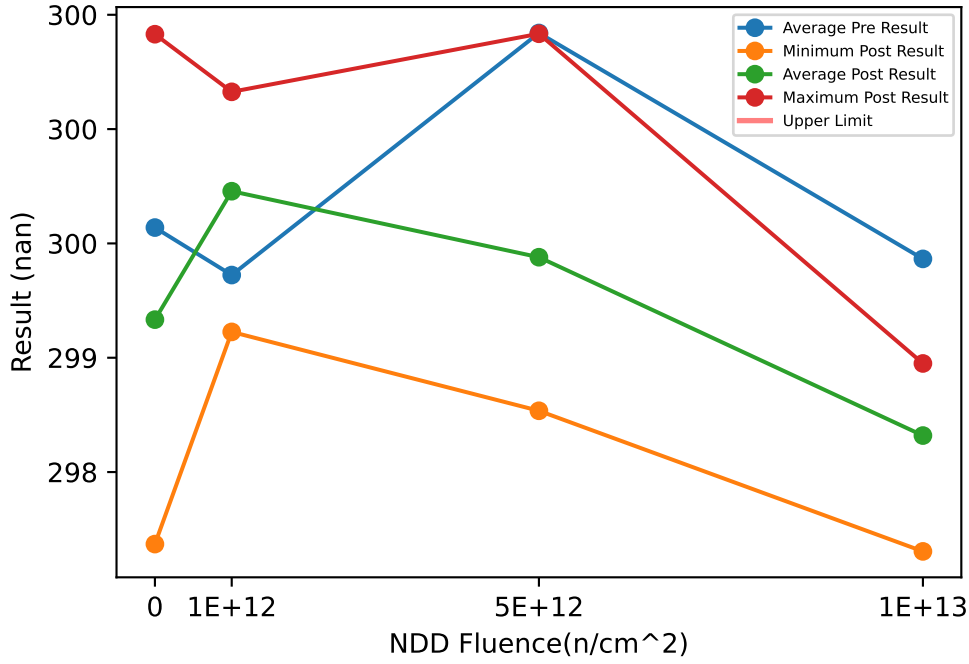


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	296.69	298.02	300.27	1.9591	295.42	297.08	298.57	1.5822	-3.008	-0.93867	1.459	2.2515
1e+12	296.24	296.43	296.78	0.3002	296.85	297.5	297.9	0.56805	0.617	1.0727	1.479	0.43311
5e+12	296.28	296.62	297.14	0.45852	296.11	297.91	298.87	1.5593	-0.169	1.2897	2.314	1.2972
1e+13	295.73	297.24	298.34	1.3533	295.8	296.23	297.08	0.73699	-1.838	-1.0087	0.074	0.98085

# Device Test: 10.27 UJXOZU(Kcs\_50mA\_CH1\_UJXOZU)

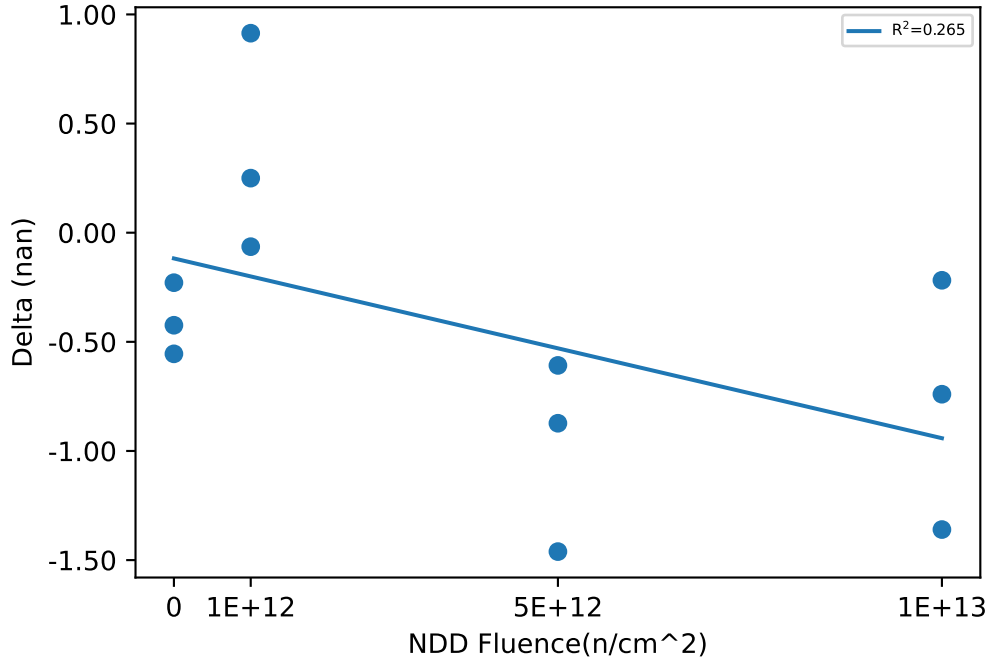
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	298.86	299.11	0.25
2	1e+12	NDD, unbiased	299.97	299.91	-0.064
3	1e+12	NDD, unbiased	299.25	300.16	0.914
4	5e+12	NDD, unbiased	300.23	298.77	-1.461
5	5e+12	NDD, unbiased	301.02	300.42	-0.608
6	5e+12	NDD, unbiased	300.01	299.13	-0.873
7	1e+13	NDD, unbiased	300.21	298.85	-1.36
8	1e+13	NDD, unbiased	299.71	298.98	-0.74
9	1e+13	NDD, unbiased	298.37	298.15	-0.218
10	0	correlation	300.64	300.42	-0.229
11	0	correlation	299.32	298.9	-0.424
12	0	correlation	298.74	298.19	-0.555

## NDD vs Post - Pre Exposure Delta

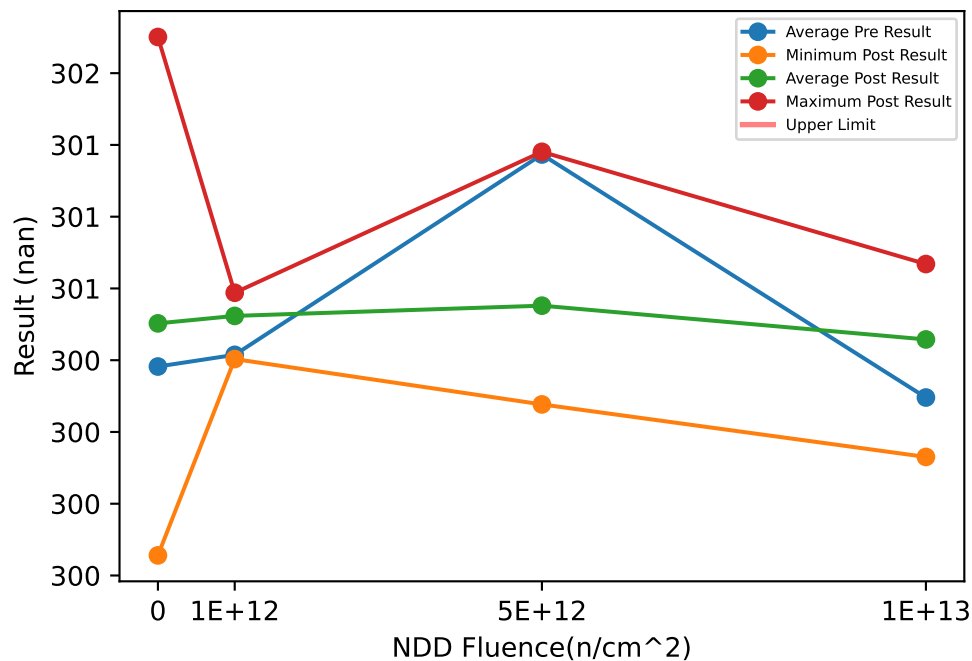


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	298.74	299.57	300.64	0.97542	298.19	299.17	300.42	1.1387	-0.555	-0.40267	-0.229	0.16404
1e+12	298.86	299.36	299.97	0.56351	299.11	299.73	300.16	0.54782	-0.064	0.36667	0.914	0.49933
5e+12	300.01	300.42	301.02	0.53529	298.77	299.44	300.42	0.86595	-1.461	-0.98067	-0.608	0.43657
1e+13	298.37	299.43	300.21	0.95201	298.15	298.66	298.98	0.44314	-1.36	-0.77267	-0.218	0.5717

# Device Test: 10.28 UJXOZU(Kcs\_100mA\_CH1\_UJXOZU)

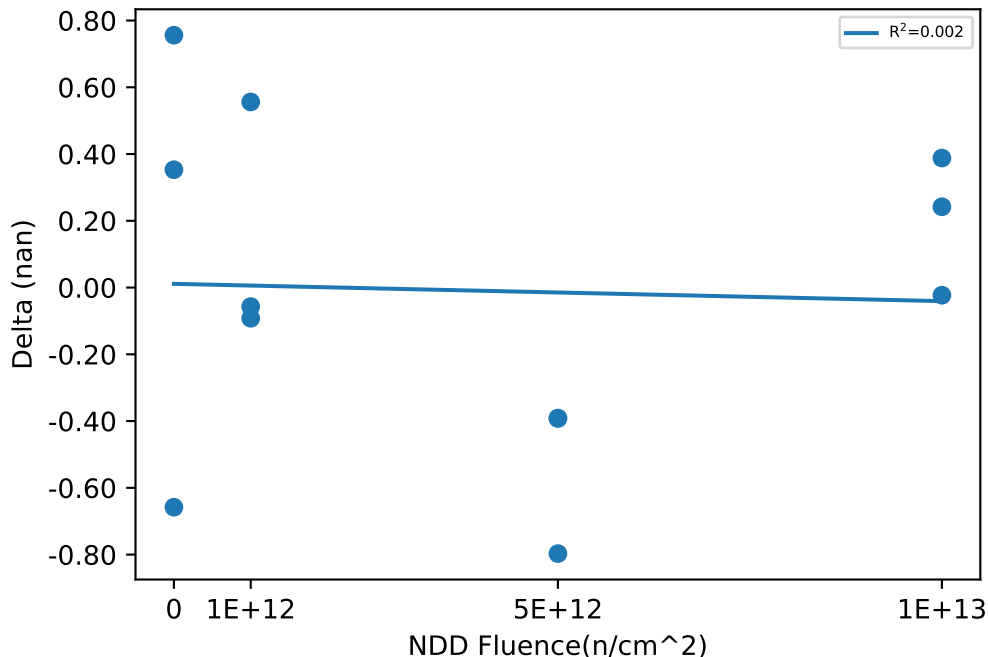
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	299.95	300.5	0.556
2	1e+12	NDD, unbiased	300.82	300.72	-0.092
3	1e+12	NDD, unbiased	300.79	300.74	-0.057
4	5e+12	NDD, unbiased	301.14	300.35	-0.797
5	5e+12	NDD, unbiased	301.62	301.23	-0.391
6	5e+12	NDD, unbiased	300.89	300.5	-0.392
7	1e+13	NDD, unbiased	300.33	300.72	0.388
8	1e+13	NDD, unbiased	300.86	300.83	-0.023
9	1e+13	NDD, unbiased	299.92	300.16	0.242
10	0	correlation	300.87	301.63	0.756
11	0	correlation	300.09	300.44	0.353
12	0	correlation	300.48	299.82	-0.658

## NDD vs Post - Pre Exposure Delta

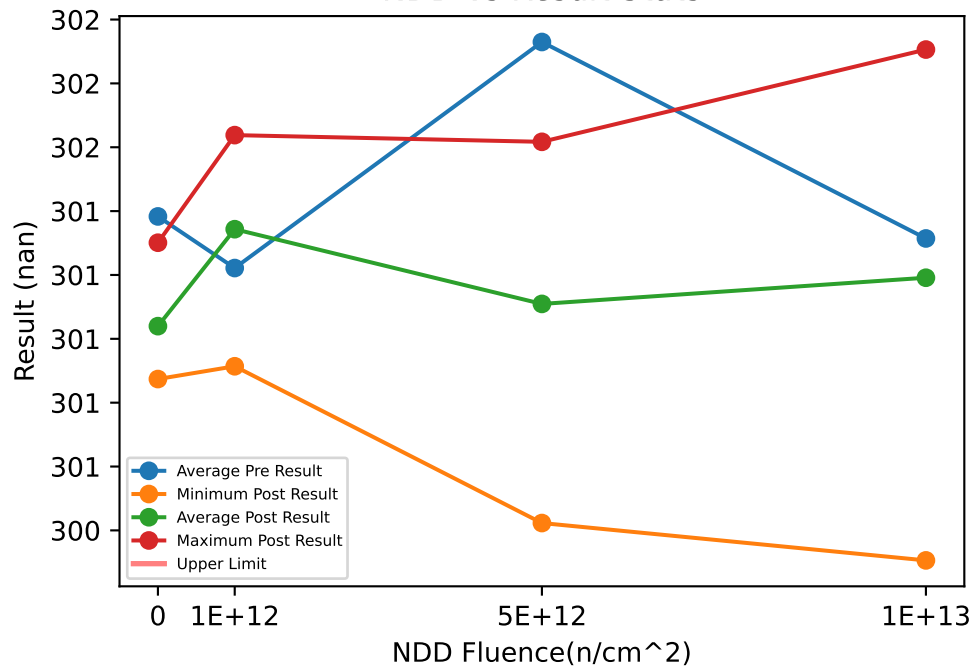


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	300.09	300.48	300.87	0.392	299.82	300.63	301.63	0.91777	-0.658	0.15033	0.756	0.72846
1e+12	299.95	300.52	300.82	0.49436	300.5	300.65	300.74	0.13031	-0.092	0.13567	0.556	0.36444
5e+12	300.89	301.22	301.62	0.36906	300.35	300.69	301.23	0.47037	-0.797	-0.52667	-0.391	0.23412
1e+13	299.92	300.37	300.86	0.46972	300.16	300.57	300.83	0.35921	-0.023	0.20233	0.388	0.20835

# Device Test: 10.29 UJXOZU(Kcs\_250mA\_CH1\_UJXOZU)

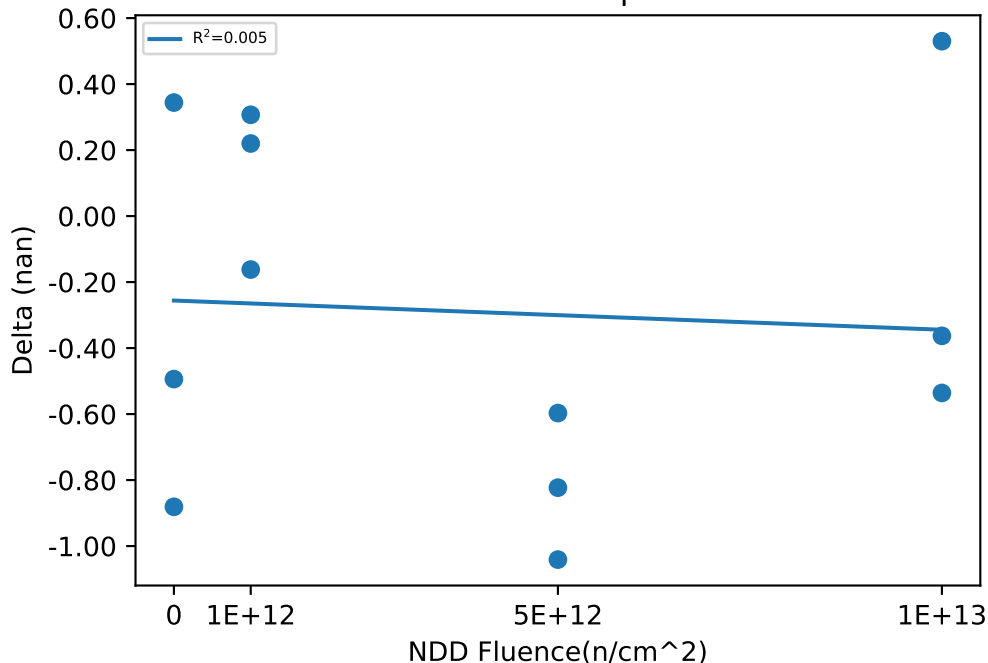
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	300.61	300.91	0.307
2	1e+12	NDD, unbiased	301.8	301.64	-0.162
3	1e+12	NDD, unbiased	301.26	301.48	0.22
4	5e+12	NDD, unbiased	301.46	300.42	-1.041
5	5e+12	NDD, unbiased	302.44	301.62	-0.823
6	5e+12	NDD, unbiased	301.88	301.29	-0.597
7	1e+13	NDD, unbiased	301.73	301.36	-0.363
8	1e+13	NDD, unbiased	301.38	301.91	0.53
9	1e+13	NDD, unbiased	300.84	300.31	-0.536
10	0	correlation	302.18	301.3	-0.881
11	0	correlation	301.44	300.94	-0.494
12	0	correlation	300.53	300.87	0.344

## NDD vs Post - Pre Exposure Delta

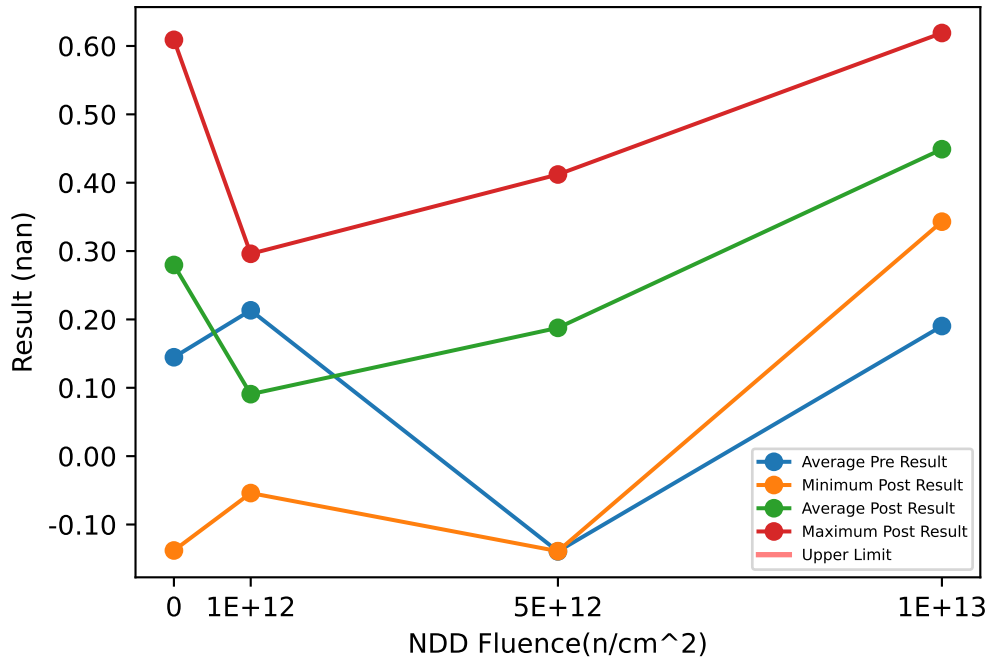


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	300.53	301.38	302.18	0.82736	300.87	301.04	301.3	0.22901	-0.881	-0.34367	0.344	0.62618
1e+12	300.61	301.22	301.8	0.59733	300.91	301.34	301.64	0.38032	-0.162	0.12167	0.307	0.24948
5e+12	301.46	301.93	302.44	0.48953	300.42	301.11	301.62	0.61673	-1.041	-0.82033	-0.597	0.22201
1e+13	300.84	301.31	301.73	0.44472	300.31	301.19	301.91	0.81354	-0.536	-0.123	0.53	0.57209

# Device Test: 10.3 UJF0T(dCSR\_50mA\_CH1\_UJF0T)

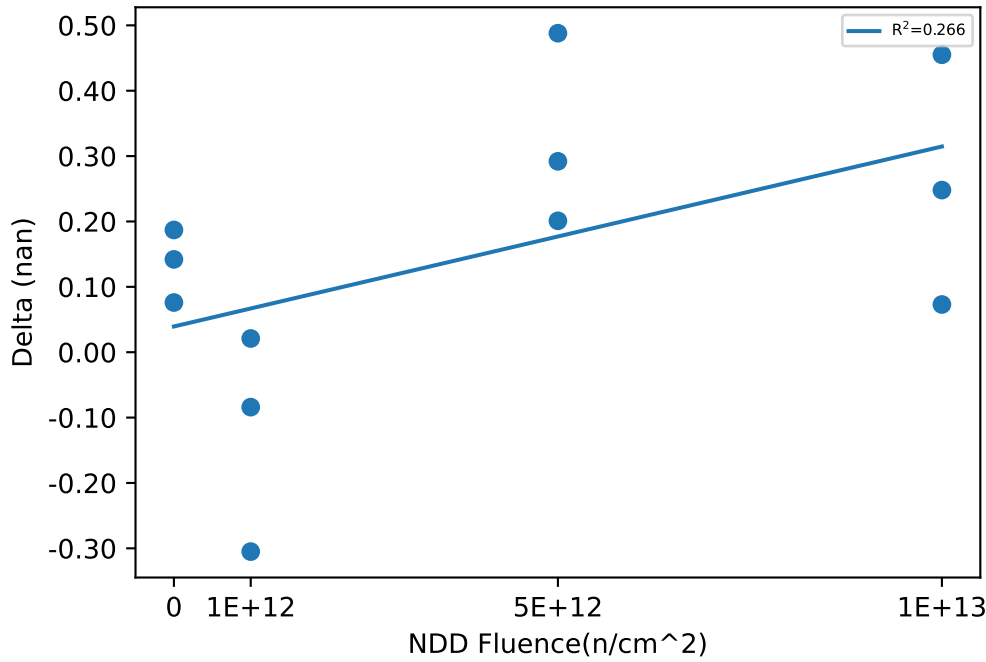
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.38	0.296	-0.084
2	1e+12	NDD, unbiased	0.009	0.03	0.021
3	1e+12	NDD, unbiased	0.251	-0.054	-0.305
4	5e+12	NDD, unbiased	-0.076	0.412	0.488
5	5e+12	NDD, unbiased	-0.34	-0.139	0.201
6	5e+12	NDD, unbiased	-0.002	0.29	0.292
7	1e+13	NDD, unbiased	-0.07	0.385	0.455
8	1e+13	NDD, unbiased	0.095	0.343	0.248
9	1e+13	NDD, unbiased	0.546	0.619	0.073
10	0	correlation	-0.214	-0.138	0.076
11	0	correlation	0.226	0.368	0.142
12	0	correlation	0.422	0.609	0.187

## NDD vs Post - Pre Exposure Delta

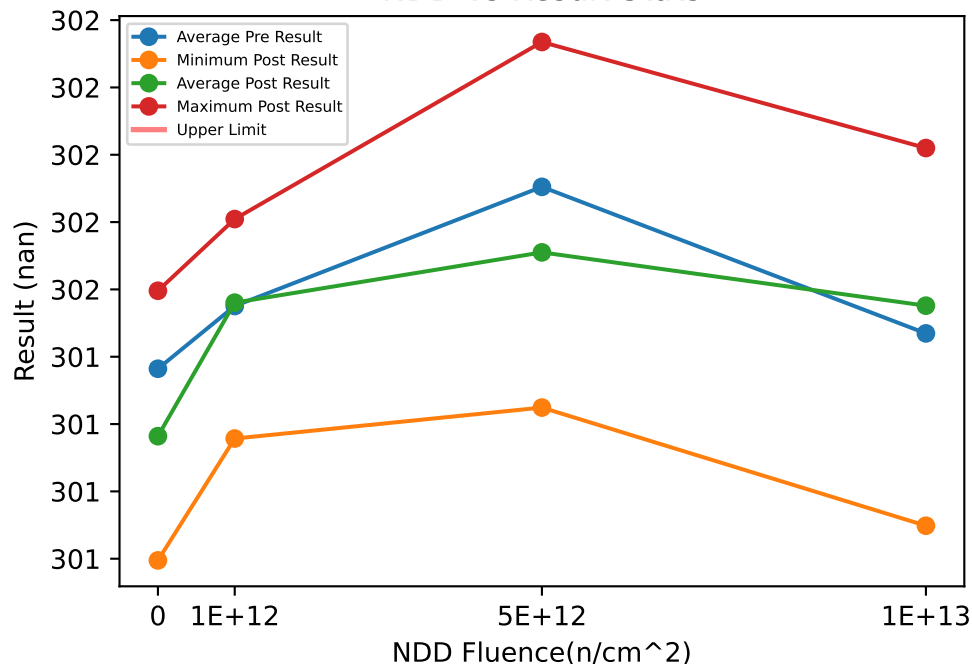


## Test Statistics (nan)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.214	0.14467	0.422	0.32571	-0.138	0.27967	0.609	0.38125	0.076	0.135	0.187	0.05583
1e+12	0.009	0.21333	0.38	0.18835	-0.054	0.090667	0.296	0.18272	-0.305	-0.12267	0.021	0.1664
5e+12	-0.34	-0.13933	-0.002	0.17768	-0.139	0.18767	0.412	0.2894	0.201	0.327	0.488	0.14667
1e+13	-0.07	0.19033	0.546	0.31887	0.343	0.449	0.619	0.14871	0.073	0.25867	0.455	0.19122

# Device Test: 10.30 UJXOZU(Kcs\_500mA\_CH1\_UJXOZU)

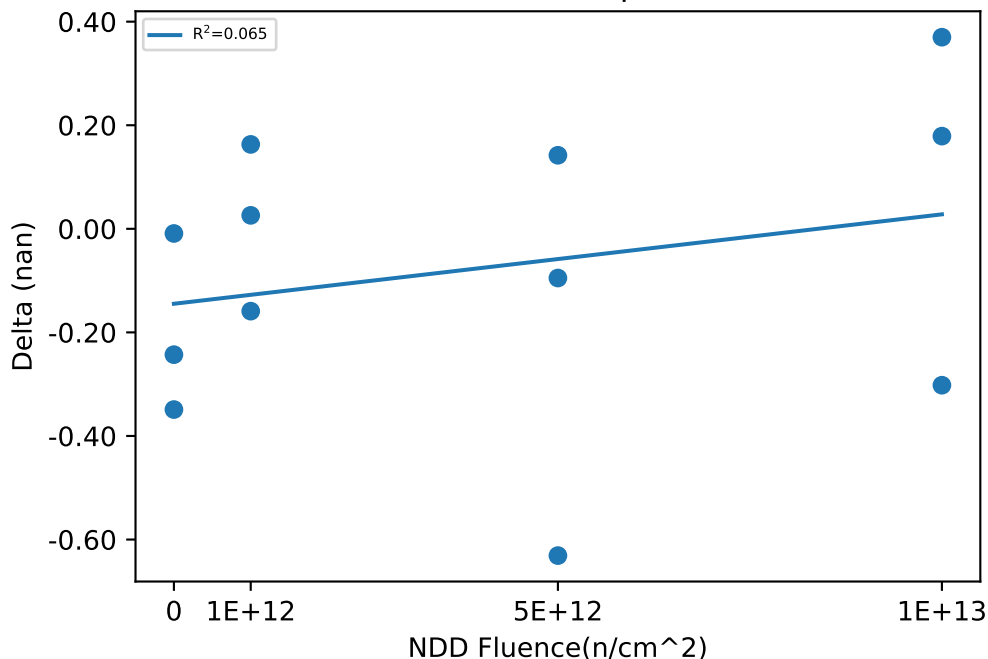
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	301.13	301.16	0.026
2	1e+12	NDD, unbiased	301.65	301.81	0.163
3	1e+12	NDD, unbiased	301.88	301.72	-0.159
4	5e+12	NDD, unbiased	301.88	301.25	-0.631
5	5e+12	NDD, unbiased	302.43	302.33	-0.095
6	5e+12	NDD, unbiased	301.4	301.55	0.142
7	1e+13	NDD, unbiased	301.56	301.74	0.179
8	1e+13	NDD, unbiased	301.65	302.02	0.37
9	1e+13	NDD, unbiased	301.2	300.9	-0.302
10	0	correlation	301.94	301.6	-0.349
11	0	correlation	301.11	301.1	-0.009
12	0	correlation	301.04	300.8	-0.243

## NDD vs Post - Pre Exposure Delta

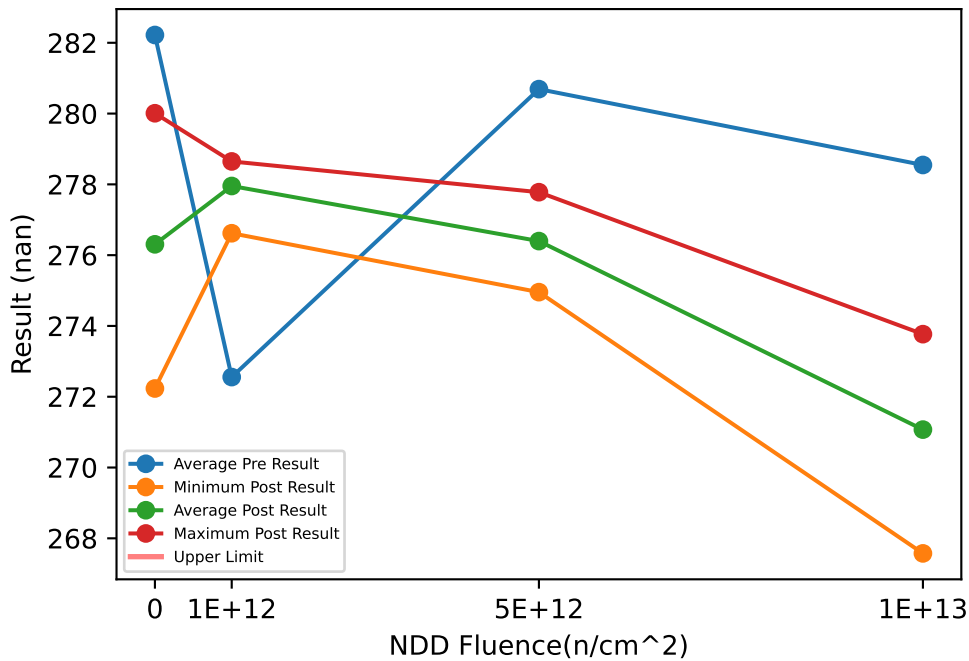


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	301.04	301.36	301.94	0.50416	300.8	301.16	301.6	0.4042	-0.349	-0.20033	-0.009	0.17397
1e+12	301.13	301.55	301.88	0.38105	301.16	301.56	301.81	0.35266	-0.159	0.01	0.163	0.1616
5e+12	301.4	301.9	302.43	0.51344	301.25	301.71	302.33	0.56127	-0.631	-0.19467	0.142	0.39602
1e+13	301.2	301.47	301.65	0.23774	300.9	301.55	302.02	0.58351	-0.302	0.082333	0.37	0.34627

# Device Test: 10.31 UJXOZU(Kcs\_5mA\_CH2\_UJXOZU)

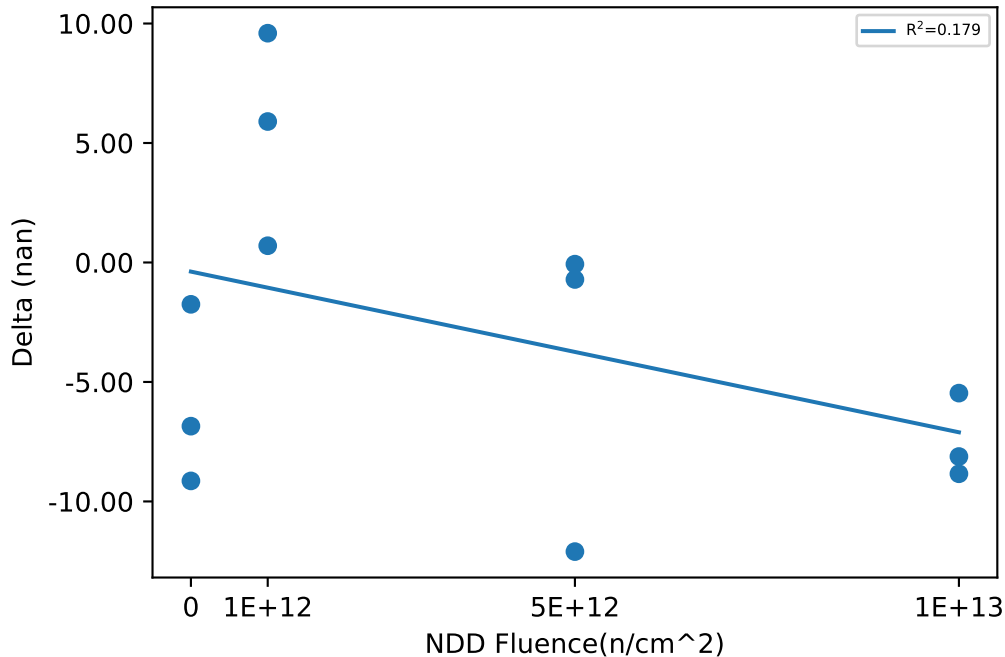
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	277.89	278.6	0.701
2	1e+12	NDD, unbiased	269.05	278.65	9.595
3	1e+12	NDD, unbiased	270.72	276.62	5.899
4	5e+12	NDD, unbiased	277.17	276.46	-0.711
5	5e+12	NDD, unbiased	287.05	274.95	-12.099
6	5e+12	NDD, unbiased	277.85	277.78	-0.07
7	1e+13	NDD, unbiased	279.24	273.77	-5.467
8	1e+13	NDD, unbiased	279.99	271.87	-8.12
9	1e+13	NDD, unbiased	276.42	267.57	-8.842
10	0	correlation	281.76	280.01	-1.751
11	0	correlation	281.37	272.23	-9.141
12	0	correlation	283.53	276.68	-6.85

## NDD vs Post - Pre Exposure Delta



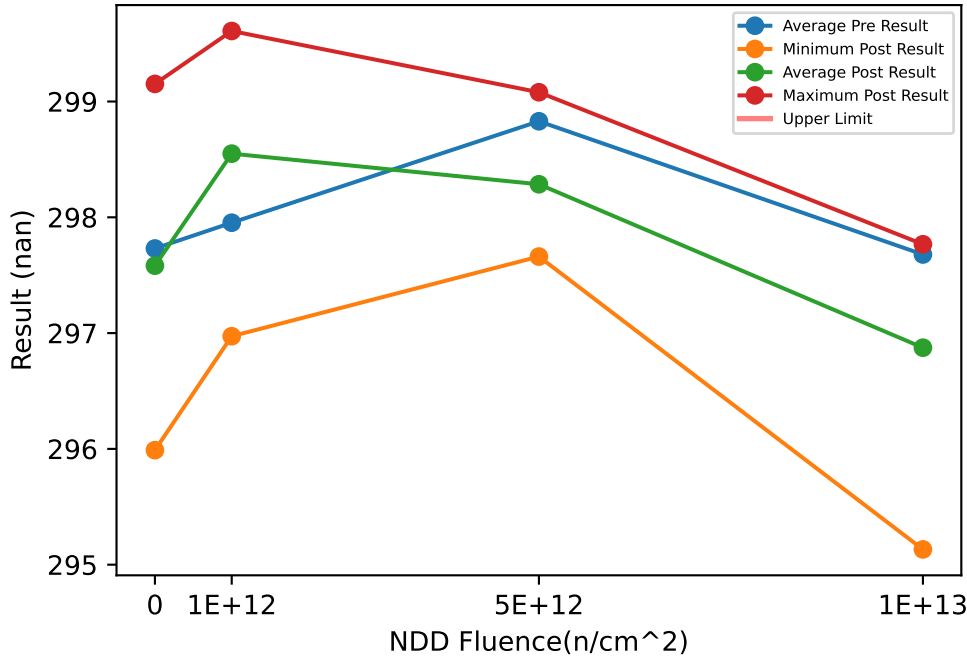
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	281.37	282.22	283.53	1.1474	272.23	276.31	280.01	3.9012	-9.141	-5.914	-1.751	3.7829
1e+12	269.05	272.56	277.89	4.6977	276.62	277.95	278.65	1.1564	0.701	5.3983	9.595	4.4681
5e+12	277.17	280.69	287.05	5.5213	274.95	276.4	277.78	1.413	-12.099	-4.2933	-0.07	6.7675
1e+13	276.42	278.55	279.99	1.8845	267.57	271.07	273.77	3.1737	-8.842	-7.4763	-5.467	1.7772



# Device Test: 10.32 UJXOZU(Kcs\_25mA\_CH2\_UJXOZU)

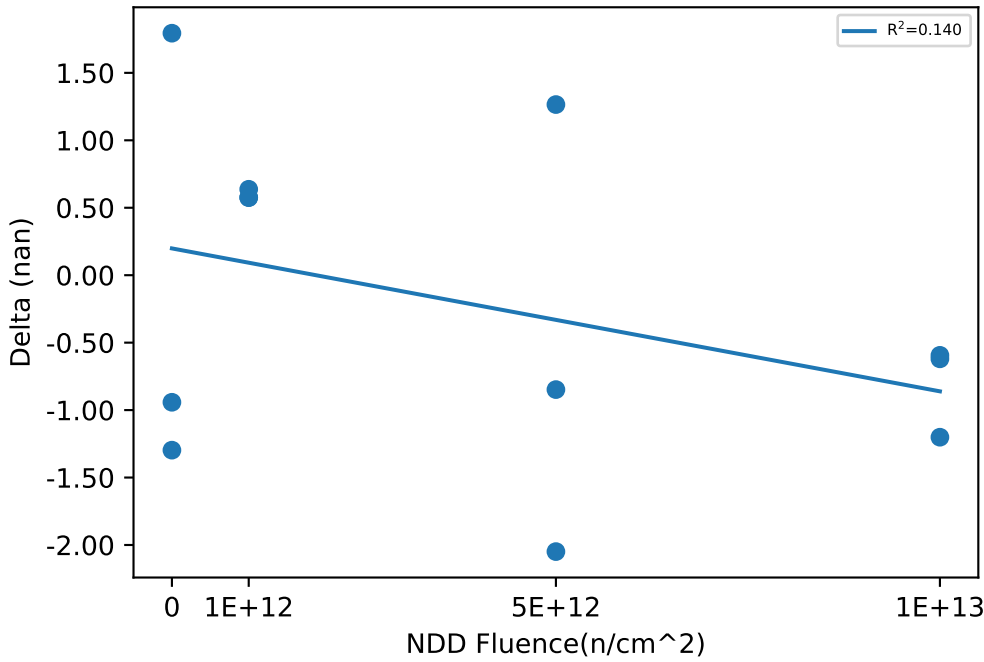
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	298.49	299.07	0.575
2	1e+12	NDD, unbiased	296.34	296.97	0.637
3	1e+12	NDD, unbiased	299.03	299.61	0.577
4	5e+12	NDD, unbiased	296.4	297.66	1.265
5	5e+12	NDD, unbiased	300.16	298.12	-2.049
6	5e+12	NDD, unbiased	299.93	299.08	-0.848
7	1e+13	NDD, unbiased	298.97	297.77	-1.201
8	1e+13	NDD, unbiased	298.34	297.72	-0.62
9	1e+13	NDD, unbiased	295.73	295.13	-0.594
10	0	correlation	298.55	297.61	-0.942
11	0	correlation	297.29	295.99	-1.297
12	0	correlation	297.36	299.15	1.794

## NDD vs Post - Pre Exposure Delta

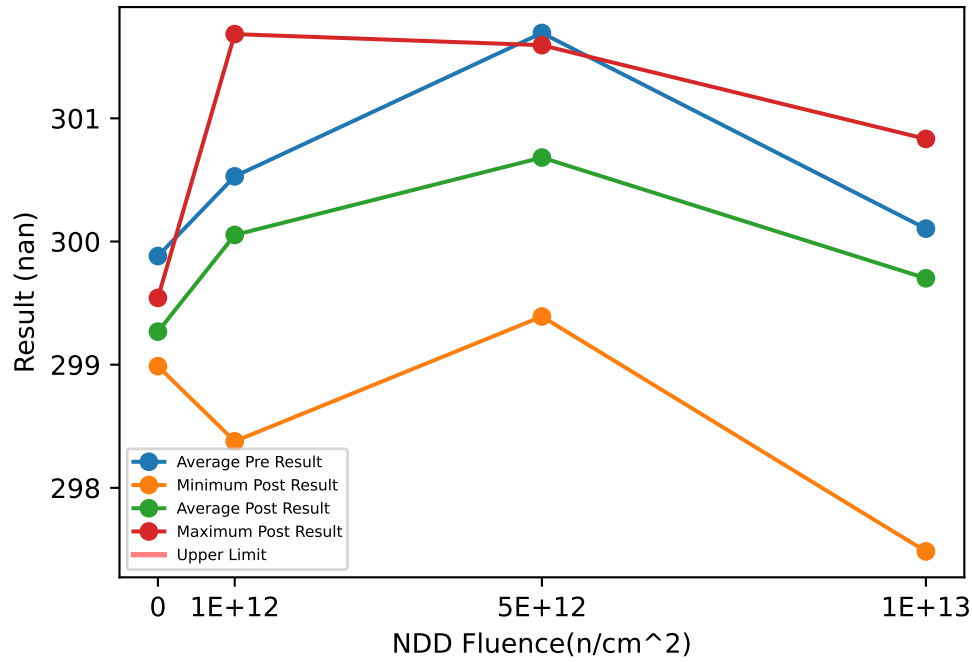


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	297.29	297.73	298.55	0.70875	295.99	297.58	299.15	1.5816	-1.297	-0.14833	1.794	1.6914
1e+12	296.34	297.95	299.03	1.4264	296.97	298.55	299.61	1.3921	0.575	0.59633	0.637	0.035233
5e+12	296.4	298.83	300.16	2.1106	297.66	298.29	299.08	0.72467	-2.049	-0.544	1.265	1.6778
1e+13	295.73	297.68	298.97	1.72	295.13	296.87	297.77	1.5088	-1.201	-0.805	-0.594	0.34319

# Device Test: 10.33 UJXOZU(Kcs\_50mA\_CH2\_UJXOZU)

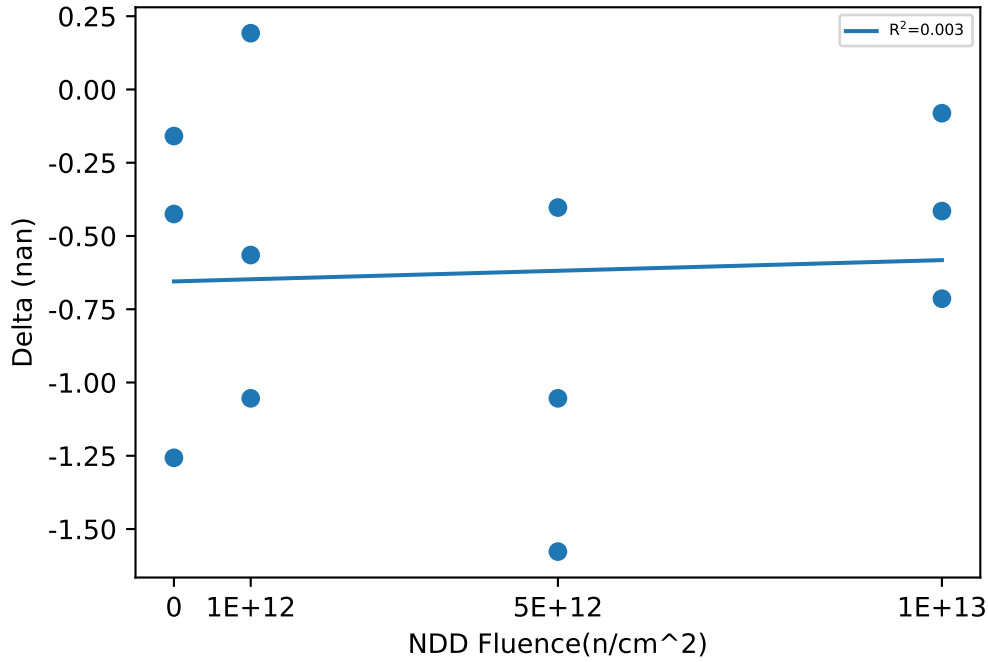
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	301.49	301.68	0.192
2	1e+12	NDD, unbiased	299.43	298.38	-1.054
3	1e+12	NDD, unbiased	300.66	300.1	-0.565
4	5e+12	NDD, unbiased	300.44	299.39	-1.054
5	5e+12	NDD, unbiased	302	301.59	-0.403
6	5e+12	NDD, unbiased	302.64	301.06	-1.577
7	1e+13	NDD, unbiased	300.91	300.83	-0.081
8	1e+13	NDD, unbiased	301.2	300.79	-0.415
9	1e+13	NDD, unbiased	298.2	297.48	-0.714
10	0	correlation	299.15	298.99	-0.159
11	0	correlation	299.7	299.27	-0.425
12	0	correlation	300.8	299.54	-1.257

## NDD vs Post - Pre Exposure Delta

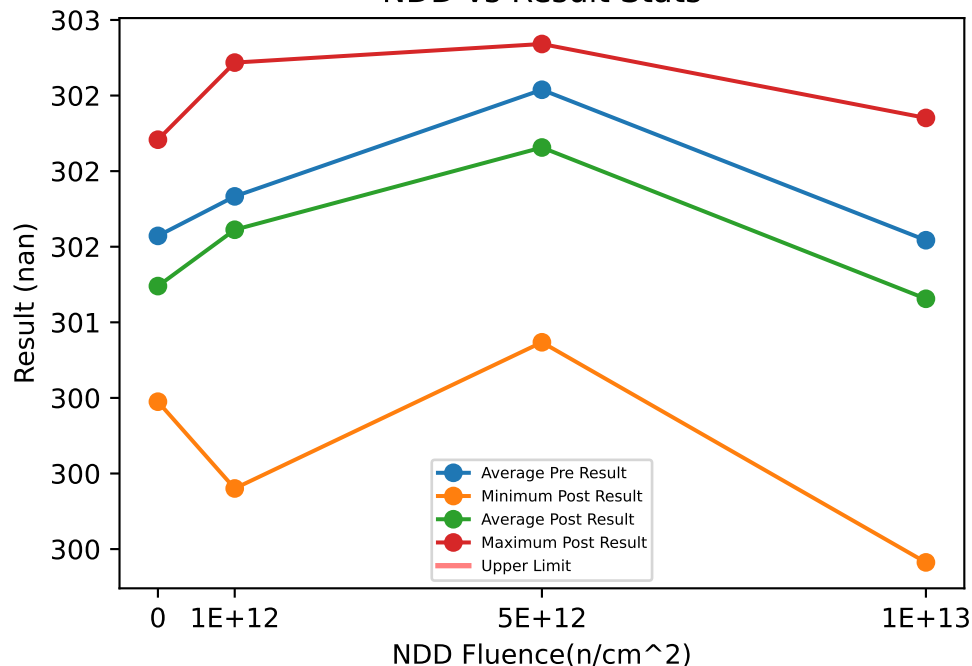


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	299.15	299.88	300.8	0.8409	298.99	299.27	299.54	0.27706	-1.257	-0.61367	-0.159	0.5728
1e+12	299.43	300.53	301.49	1.0365	298.38	300.05	301.68	1.6535	-1.054	-0.47567	0.192	0.62779
5e+12	300.44	301.69	302.64	1.1272	299.39	300.68	301.59	1.1492	-1.577	-1.0113	-0.403	0.58816
1e+13	298.2	300.1	301.2	1.6575	297.48	299.7	300.83	1.9204	-0.714	-0.40333	-0.081	0.31666

# Device Test: 10.34 UJXOZU(Kcs\_100mA\_CH2\_UJXOZU)

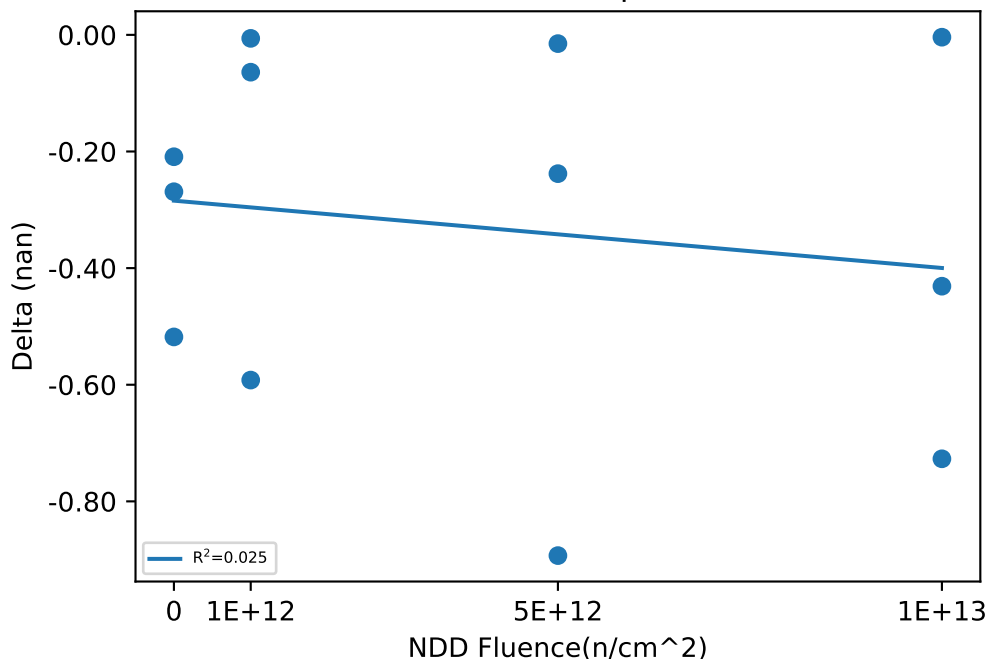
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	302.78	302.72	-0.064
2	1e+12	NDD, unbiased	300.49	299.9	-0.592
3	1e+12	NDD, unbiased	302.22	302.22	-0.006
4	5e+12	NDD, unbiased	301.76	300.87	-0.893
5	5e+12	NDD, unbiased	302.86	302.84	-0.015
6	5e+12	NDD, unbiased	303	302.76	-0.238
7	1e+13	NDD, unbiased	302.43	301.7	-0.727
8	1e+13	NDD, unbiased	302.36	302.35	-0.004
9	1e+13	NDD, unbiased	299.84	299.41	-0.431
10	0	correlation	300.99	300.48	-0.518
11	0	correlation	301.31	301.04	-0.269
12	0	correlation	302.42	302.21	-0.209

## NDD vs Post - Pre Exposure Delta

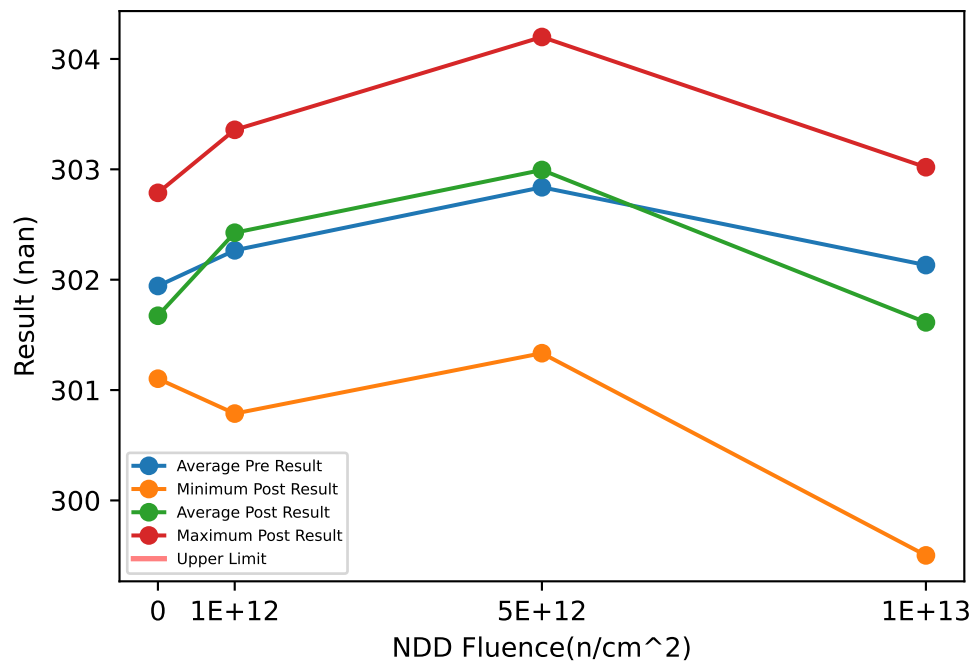


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	300.99	301.57	302.42	0.74852	300.48	301.24	302.21	0.88427	-0.518	-0.332	-0.209	0.16385
1e+12	300.49	301.83	302.78	1.1935	299.9	301.61	302.72	1.503	-0.592	-0.22067	-0.006	0.32289
5e+12	301.76	302.54	303	0.67692	300.87	302.16	302.84	1.1165	-0.893	-0.382	-0.015	0.45637
1e+13	299.84	301.54	302.43	1.4727	299.41	301.16	302.35	1.5445	-0.727	-0.38733	-0.004	0.36347

# Device Test: 10.35 UJXOZU(Kcs\_250mA\_CH2\_UJXOZU)

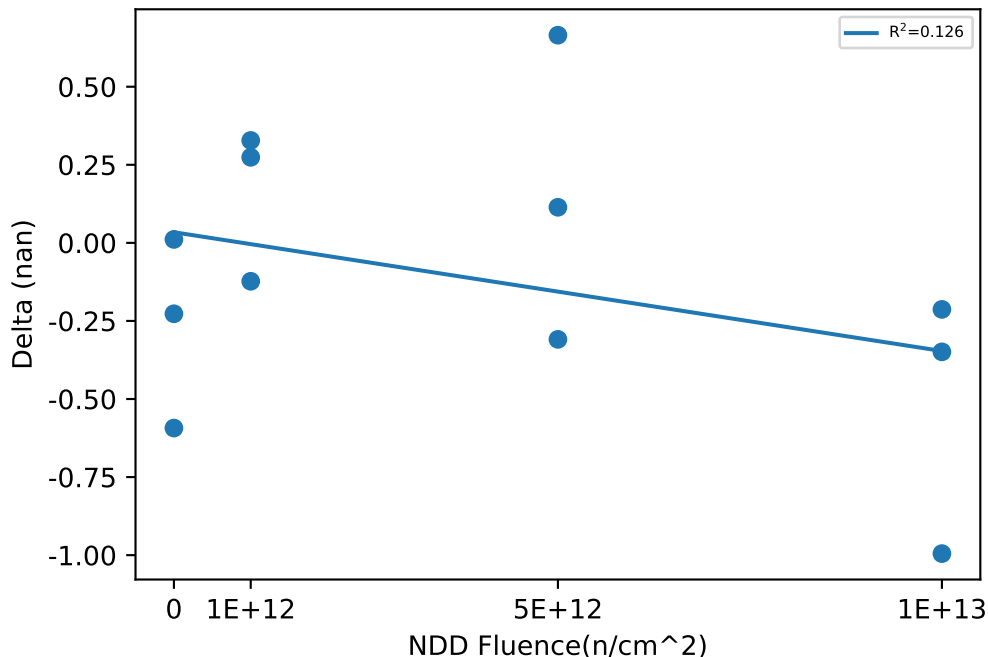
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	303.48	303.36	-0.123
2	1e+12	NDD, unbiased	300.51	300.79	0.274
3	1e+12	NDD, unbiased	302.8	303.13	0.328
4	5e+12	NDD, unbiased	301.64	301.33	-0.309
5	5e+12	NDD, unbiased	303.53	304.2	0.665
6	5e+12	NDD, unbiased	303.33	303.45	0.114
7	1e+13	NDD, unbiased	303.31	302.32	-0.995
8	1e+13	NDD, unbiased	303.23	303.02	-0.213
9	1e+13	NDD, unbiased	299.85	299.5	-0.349
10	0	correlation	301.09	301.1	0.011
11	0	correlation	301.72	301.13	-0.593
12	0	correlation	303.01	302.79	-0.227

## NDD vs Post - Pre Exposure Delta

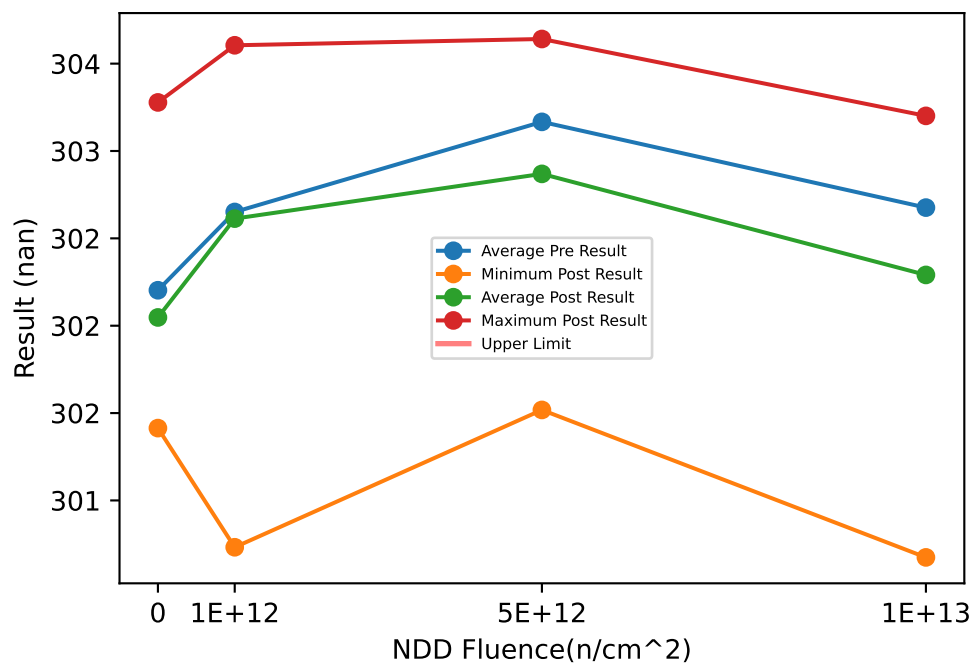


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	301.09	301.94	303.01	0.9797	301.1	301.67	302.79	0.96456	-0.593	-0.26967	0.011	0.30425
1e+12	300.51	302.27	303.48	1.5554	300.79	302.43	303.36	1.4236	-0.123	0.15967	0.328	0.24628
5e+12	301.64	302.84	303.53	1.0391	301.33	302.99	304.2	1.4857	-0.309	0.15667	0.665	0.4884
1e+13	299.85	302.13	303.31	1.9761	299.5	301.61	303.02	1.8617	-0.995	-0.519	-0.213	0.4178

# Device Test: 10.36 UJXOZU(Kcs\_500mA\_CH2\_UJXOZU)

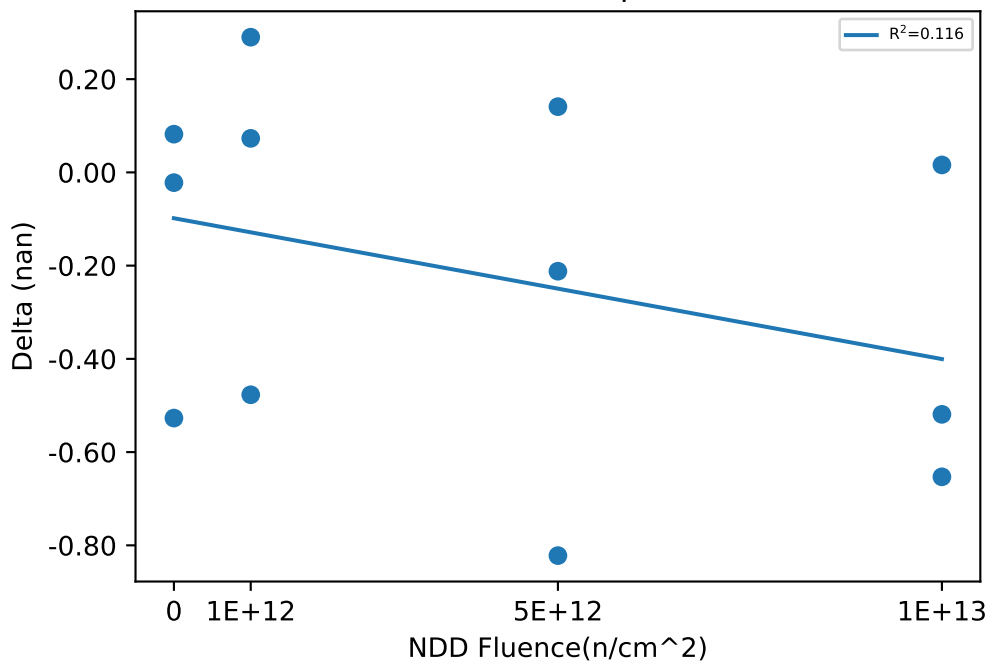
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	303.53	303.61	0.073
2	1e+12	NDD, unbiased	301.21	300.73	-0.477
3	1e+12	NDD, unbiased	303.21	303.5	0.29
4	5e+12	NDD, unbiased	302.34	301.52	-0.822
5	5e+12	NDD, unbiased	303.66	303.45	-0.212
6	5e+12	NDD, unbiased	303.5	303.64	0.141
7	1e+13	NDD, unbiased	303.65	303	-0.653
8	1e+13	NDD, unbiased	303.72	303.2	-0.519
9	1e+13	NDD, unbiased	300.66	300.67	0.016
10	0	correlation	301.47	301.45	-0.022
11	0	correlation	301.94	301.41	-0.527
12	0	correlation	303.2	303.28	0.082

## NDD vs Post - Pre Exposure Delta

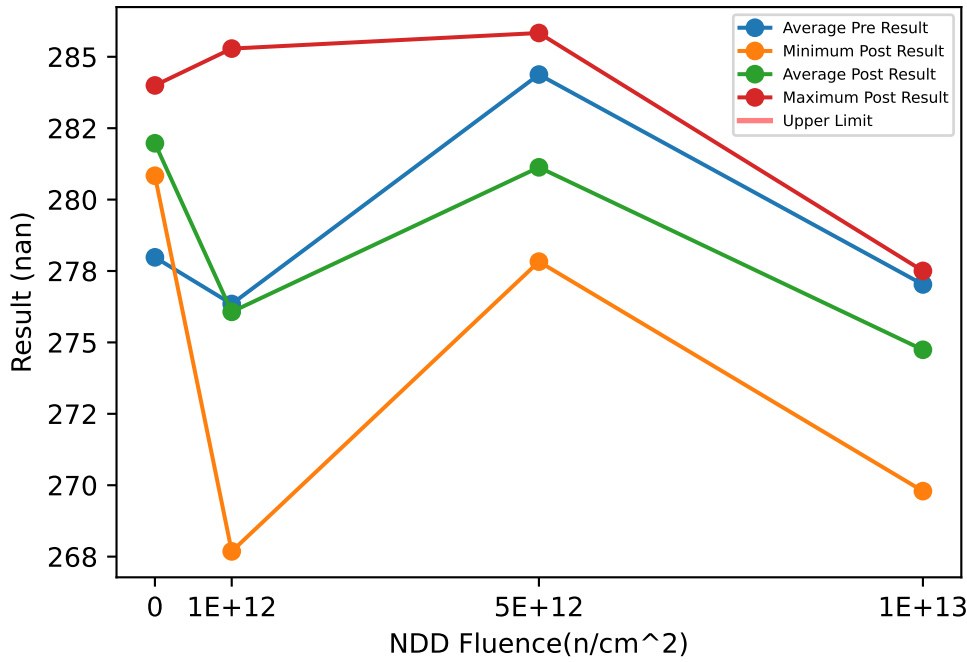


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	301.47	302.2	303.2	0.89136	301.41	302.05	303.28	1.0659	-0.527	-0.15567	0.082	0.32576
1e+12	301.21	302.65	303.53	1.259	300.73	302.61	303.61	1.6298	-0.477	-0.038	0.29	0.39536
5e+12	302.34	303.17	303.66	0.72037	301.52	302.87	303.64	1.174	-0.822	-0.29767	0.141	0.48718
1e+13	300.66	302.68	303.72	1.748	300.67	302.29	303.2	1.4038	-0.653	-0.38533	0.016	0.35396

# Device Test: 10.37 UJXOZU(Kcs\_5mA\_CH3\_UJXOZU)

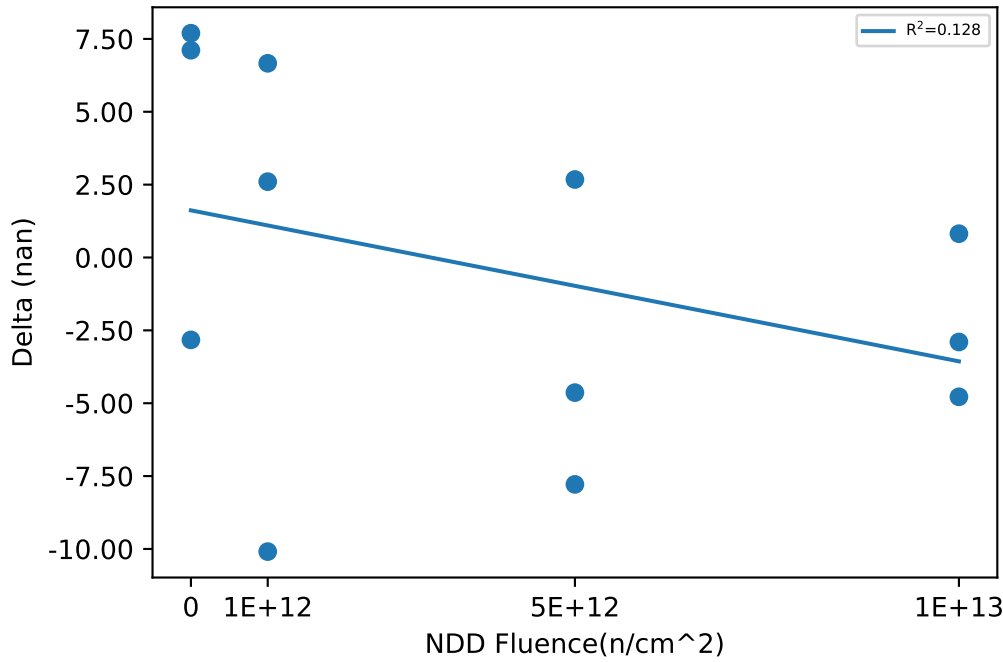
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	278.62	285.29	6.663
2	1e+12	NDD, unbiased	272.64	275.24	2.602
3	1e+12	NDD, unbiased	277.77	267.68	-10.091
4	5e+12	NDD, unbiased	283.16	285.83	2.676
5	5e+12	NDD, unbiased	285.61	277.83	-7.785
6	5e+12	NDD, unbiased	284.37	279.73	-4.636
7	1e+13	NDD, unbiased	276.69	277.5	0.817
8	1e+13	NDD, unbiased	274.57	269.79	-4.78
9	1e+13	NDD, unbiased	279.83	276.93	-2.899
10	0	correlation	283.66	280.83	-2.827
11	0	correlation	276.3	284	7.696
12	0	correlation	273.97	281.08	7.111

## NDD vs Post - Pre Exposure Delta

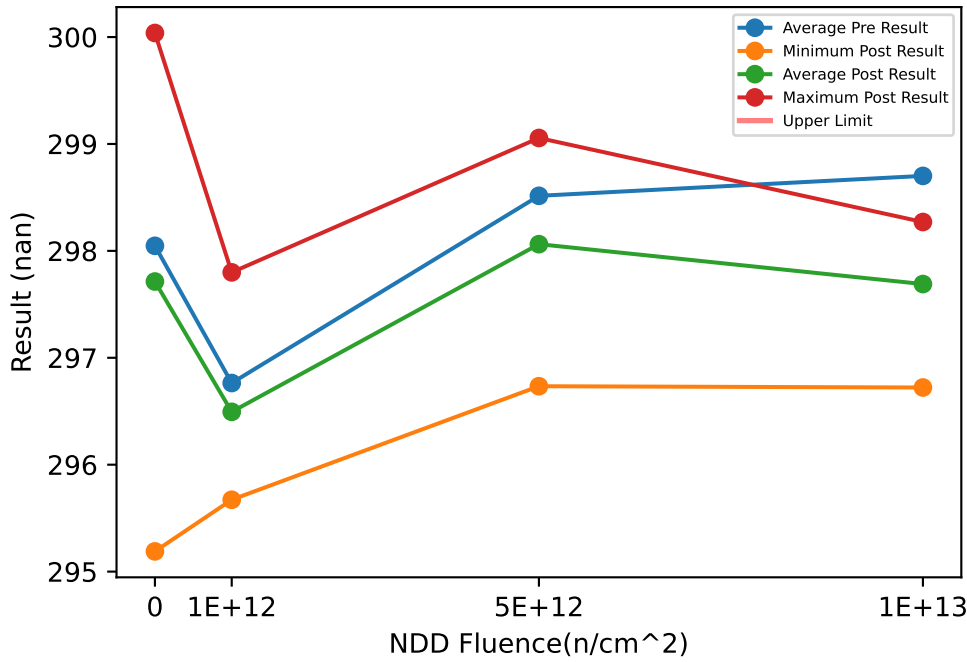


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	273.97	277.98	283.66	5.0577	280.83	281.97	284	1.7581	-2.827	3.9933	7.696	5.9138
1e+12	272.64	276.35	278.62	3.2392	267.68	276.07	285.29	8.8313	-10.091	-0.27533	6.663	8.7398
5e+12	283.16	284.38	285.61	1.2281	277.83	281.13	285.83	4.1824	-7.785	-3.2483	2.676	5.3668
1e+13	274.57	277.03	279.83	2.6442	269.79	274.74	277.5	4.2953	-4.78	-2.2873	0.817	2.8482

# Device Test: 10.38 UJXOZU(Kcs\_25mA\_CH3\_UJXOZU)

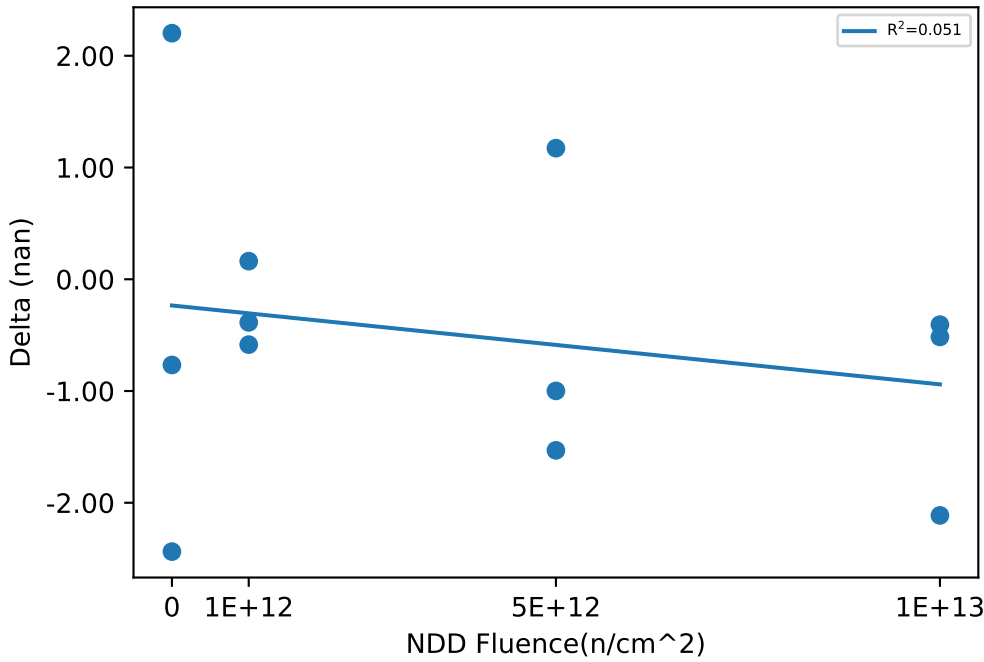
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	297.64	297.8	0.162
2	1e+12	NDD, unbiased	296.4	296.01	-0.386
3	1e+12	NDD, unbiased	296.26	295.67	-0.585
4	5e+12	NDD, unbiased	298.26	296.73	-1.531
5	5e+12	NDD, unbiased	297.88	299.06	1.173
6	5e+12	NDD, unbiased	299.4	298.4	-0.999
7	1e+13	NDD, unbiased	298.59	298.08	-0.516
8	1e+13	NDD, unbiased	298.68	298.27	-0.406
9	1e+13	NDD, unbiased	298.83	296.72	-2.113
10	0	correlation	297.63	295.19	-2.437
11	0	correlation	298.68	297.91	-0.767
12	0	correlation	297.84	300.04	2.202

## NDD vs Post - Pre Exposure Delta

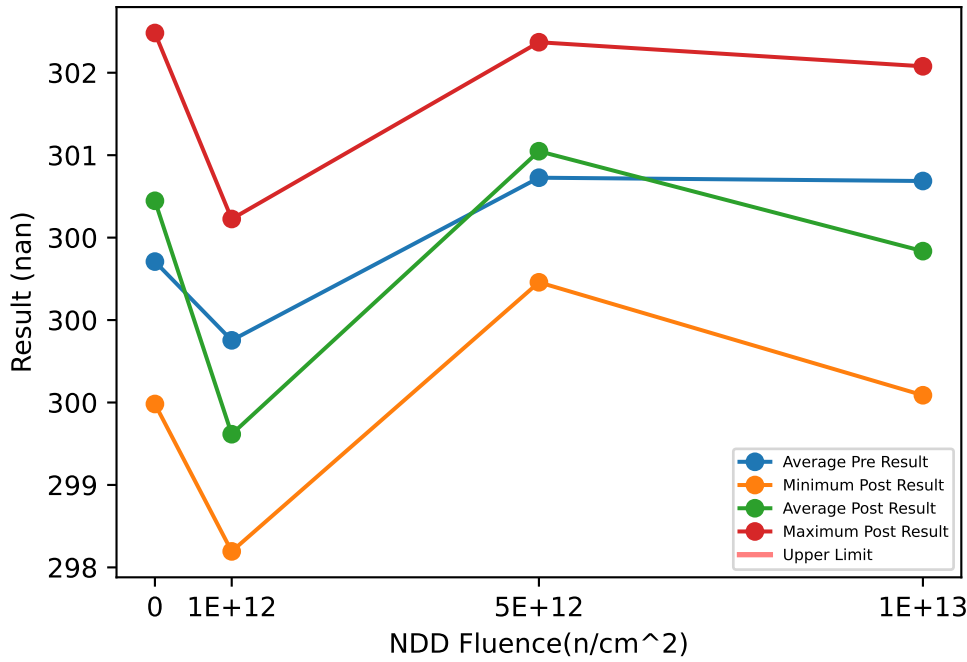


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	297.63	298.05	298.68	0.55788	295.19	297.71	300.04	2.4307	-2.437	-0.334	2.202	2.3496
1e+12	296.26	296.76	297.64	0.75932	295.67	296.49	297.8	1.1426	-0.585	-0.26967	0.162	0.38685
5e+12	297.88	298.51	299.4	0.78735	296.73	298.06	299.06	1.1968	-1.531	-0.45233	1.173	1.4325
1e+13	298.59	298.7	298.83	0.12297	296.72	297.69	298.27	0.84356	-2.113	-1.0117	-0.406	0.95537

# Device Test: 10.39 UJXOZU(Kcs\_50mA\_CH3\_UJXOZU)

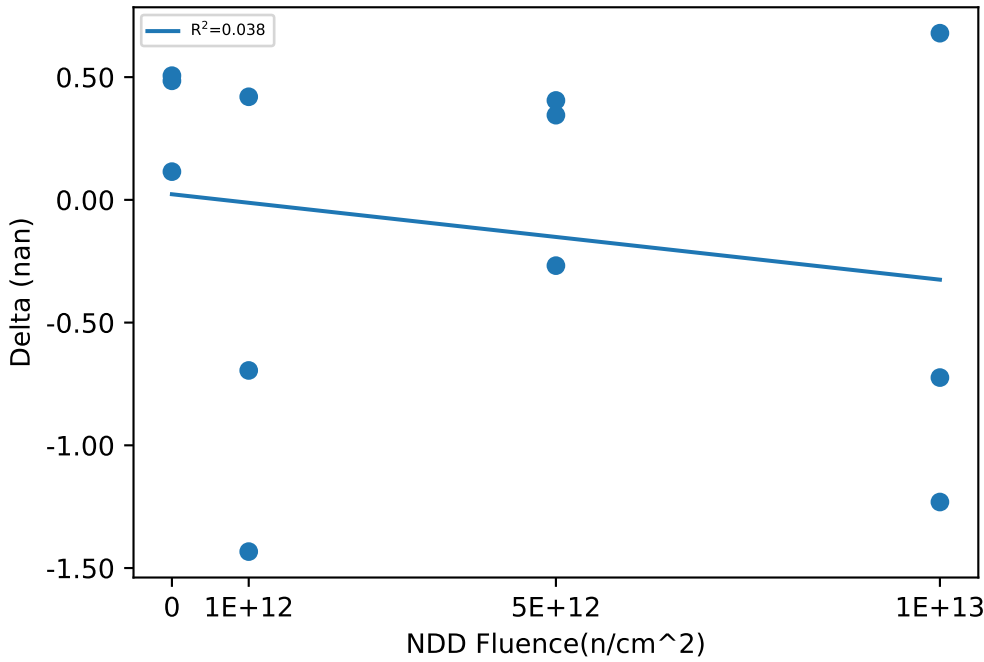
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	300.19	300.61	0.42
2	1e+12	NDD, unbiased	299.41	298.71	-0.695
3	1e+12	NDD, unbiased	300.03	298.6	-1.433
4	5e+12	NDD, unbiased	299.88	300.23	0.345
5	5e+12	NDD, unbiased	300.75	301.16	0.405
6	5e+12	NDD, unbiased	301.95	301.69	-0.268
7	1e+13	NDD, unbiased	300.89	300.17	-0.724
8	1e+13	NDD, unbiased	300.86	301.54	0.679
9	1e+13	NDD, unbiased	300.77	299.54	-1.231
10	0	correlation	299.38	299.49	0.115
11	0	correlation	301.26	301.74	0.485
12	0	correlation	300.43	300.94	0.506

## NDD vs Post - Pre Exposure Delta



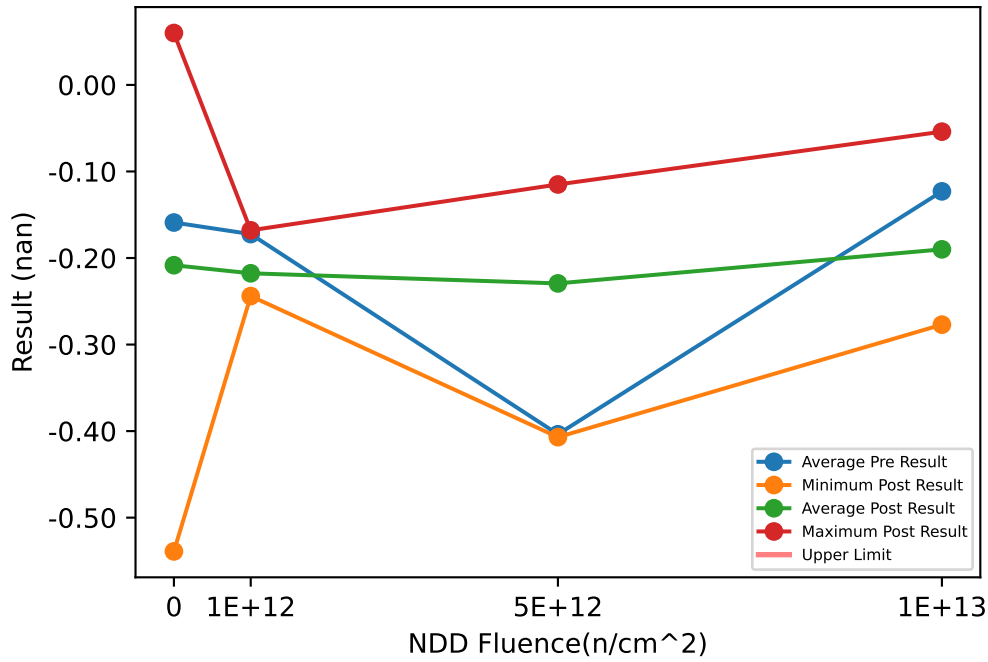
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	299.38	300.35	301.26	0.94238	299.49	300.72	301.74	1.1403	0.115	0.36867	0.506	0.21993
1e+12	299.41	299.88	300.19	0.41426	298.6	299.31	300.61	1.1319	-1.433	-0.56933	0.42	0.93287
5e+12	299.88	300.86	301.95	1.0389	300.23	301.02	301.69	0.73719	-0.268	0.16067	0.405	0.37245
1e+13	300.77	300.84	300.89	0.061712	299.54	300.42	301.54	1.0202	-1.231	-0.42533	0.679	0.98941



# Device Test: 10.4 UJ74P3(dCSR\_100mA\_CH1\_UJ74P3)

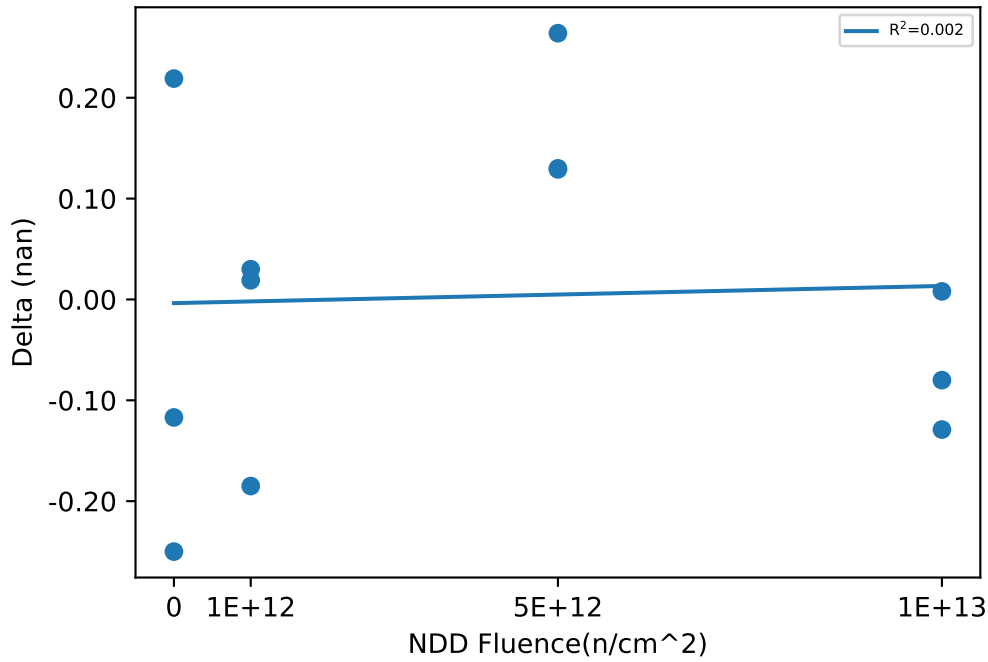
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.017	-0.168	-0.185
2	1e+12	NDD, unbiased	-0.271	-0.241	0.03
3	1e+12	NDD, unbiased	-0.263	-0.244	0.019
4	5e+12	NDD, unbiased	-0.379	-0.115	0.264
5	5e+12	NDD, unbiased	-0.536	-0.407	0.129
6	5e+12	NDD, unbiased	-0.296	-0.166	0.13
7	1e+13	NDD, unbiased	-0.11	-0.239	-0.129
8	1e+13	NDD, unbiased	-0.285	-0.277	0.008
9	1e+13	NDD, unbiased	0.026	-0.054	-0.08
10	0	correlation	-0.289	-0.539	-0.25
11	0	correlation	-0.029	-0.146	-0.117
12	0	correlation	-0.159	0.06	0.219

## NDD vs Post - Pre Exposure Delta

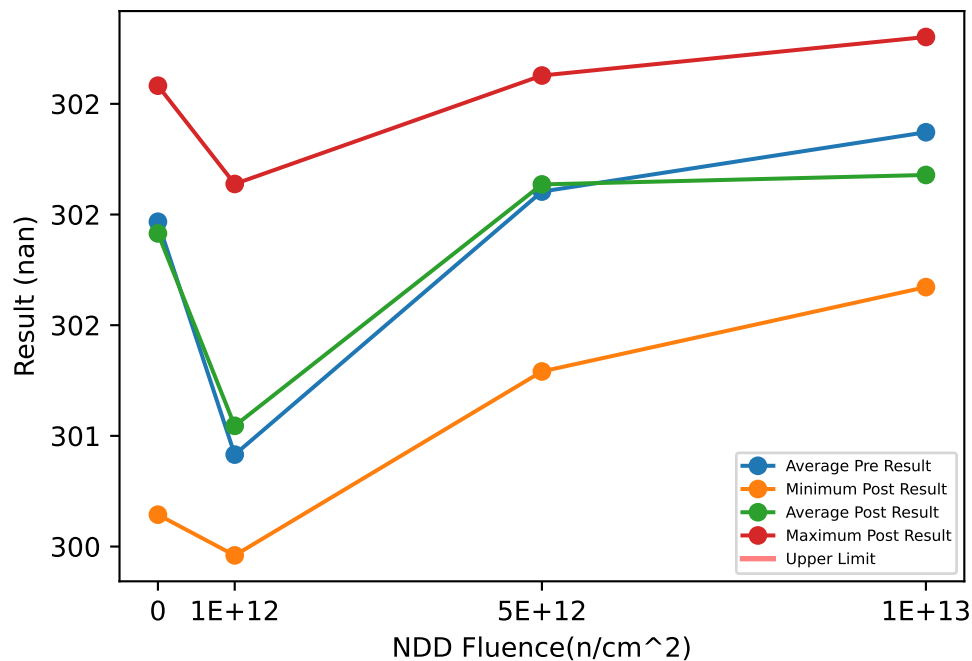


## Test Statistics (nan)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.289	-0.159	-0.029	0.13	-0.539	-0.20833	0.06	0.30433	-0.25	-0.049333	0.219	0.24171
1e+12	-0.271	-0.17233	0.017	0.16402	-0.244	-0.21767	-0.168	0.043039	-0.185	-0.045333	0.03	0.12108
5e+12	-0.536	-0.40367	-0.296	0.12189	-0.407	-0.22933	-0.115	0.15596	0.129	0.17433	0.264	0.077655
1e+13	-0.285	-0.123	0.026	0.15591	-0.277	-0.19	-0.054	0.1193	-0.129	-0.067	0.008	0.069419

# Device Test: 10.40 UJXOZU(Kcs\_100mA\_CH3\_UJXOZU)

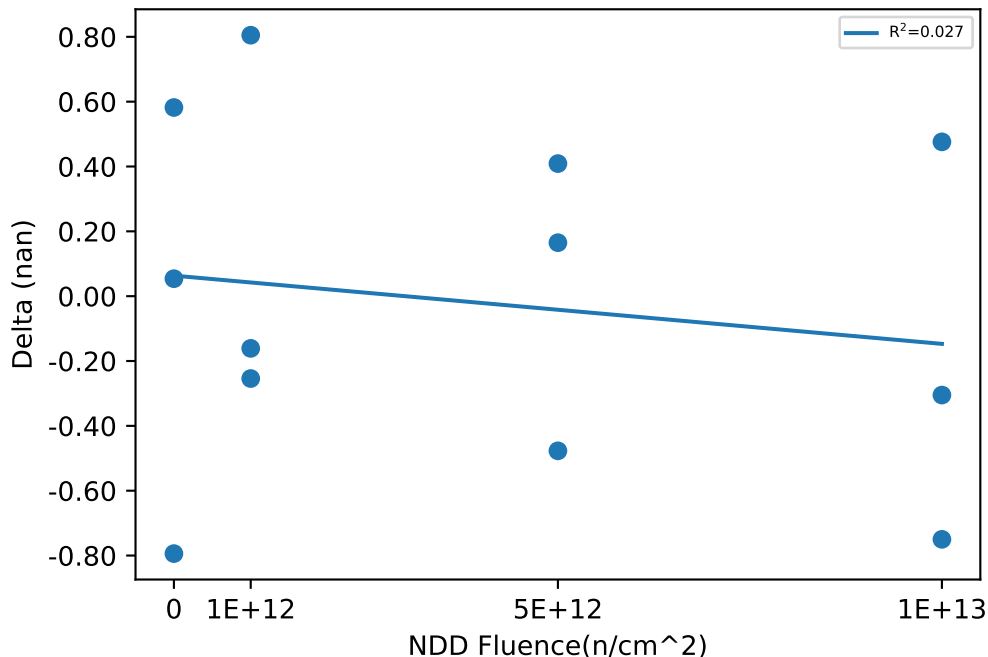
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	301.33	302.14	0.805
2	1e+12	NDD, unbiased	300.7	300.54	-0.161
3	1e+12	NDD, unbiased	300.71	300.46	-0.254
4	5e+12	NDD, unbiased	301.13	301.29	0.165
5	5e+12	NDD, unbiased	302.08	302.49	0.409
6	5e+12	NDD, unbiased	303.11	302.63	-0.477
7	1e+13	NDD, unbiased	302.42	301.67	-0.75
8	1e+13	NDD, unbiased	302.33	302.8	0.476
9	1e+13	NDD, unbiased	302.37	302.06	-0.305
10	0	correlation	300.06	300.64	0.582
11	0	correlation	303.38	302.58	-0.794
12	0	correlation	302.46	302.52	0.054

## NDD vs Post - Pre Exposure Delta

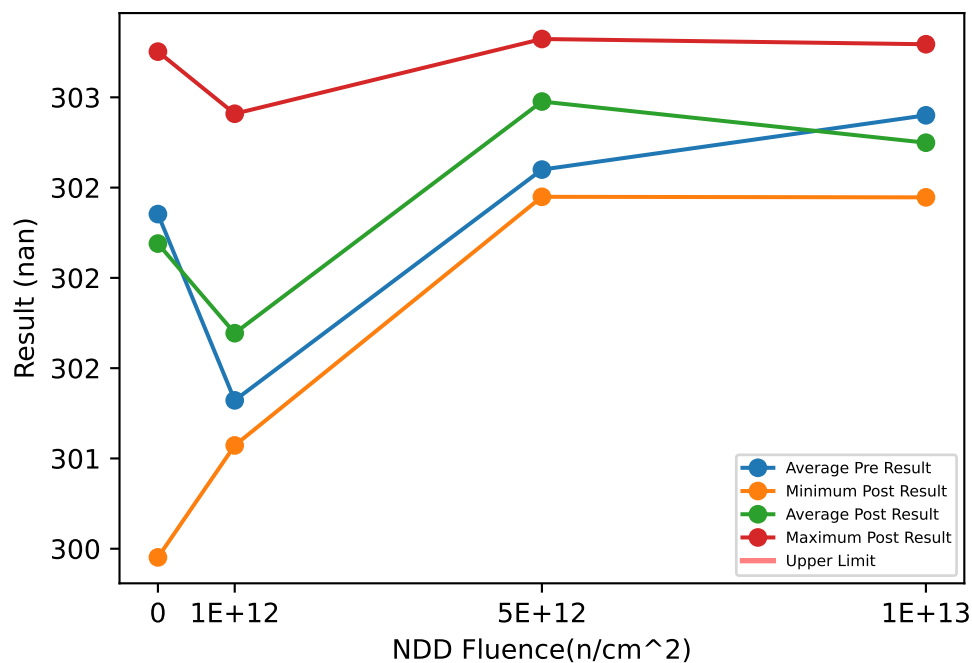


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	300.06	301.97	303.38	1.7119	300.64	301.91	302.58	1.1009	-0.794	-0.052667	0.582	0.69417
1e+12	300.7	300.92	301.33	0.36179	300.46	301.05	302.14	0.94708	-0.254	0.13	0.805	0.58641
5e+12	301.13	302.1	303.11	0.98971	301.29	302.14	302.63	0.73508	-0.477	0.032333	0.409	0.45766
1e+13	302.33	302.37	302.42	0.04817	301.67	302.18	302.8	0.57396	-0.75	-0.193	0.476	0.62063

# Device Test: 10.41 UJXOZU(Kcs\_250mA\_CH3\_UJXOZU)

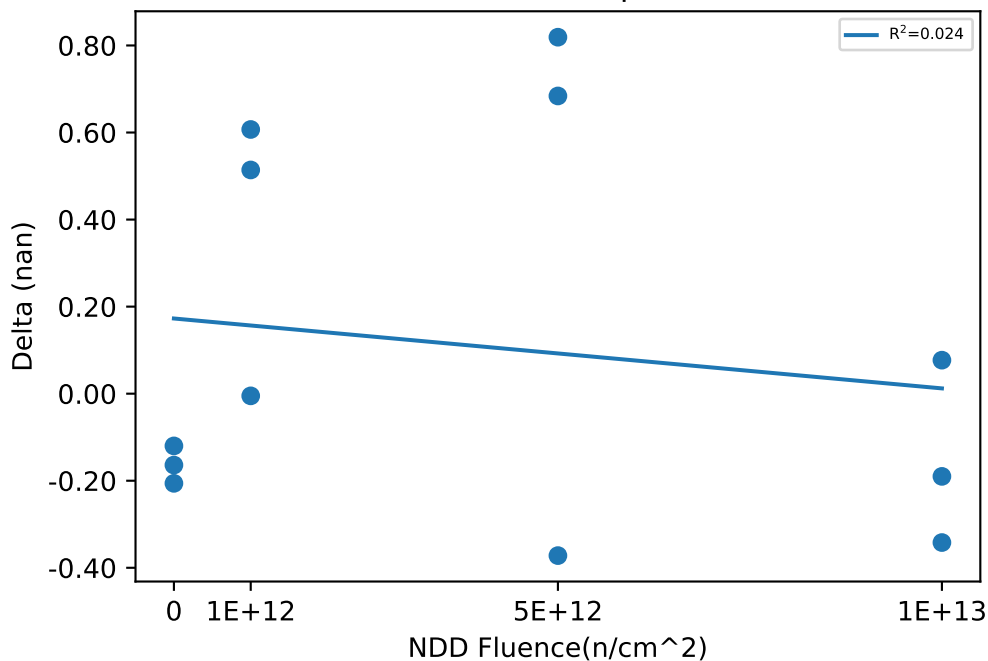
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	302.3	302.91	0.607
2	1e+12	NDD, unbiased	300.59	301.1	0.514
3	1e+12	NDD, unbiased	301.08	301.07	-0.005
4	5e+12	NDD, unbiased	301.63	302.45	0.819
5	5e+12	NDD, unbiased	302.64	303.32	0.684
6	5e+12	NDD, unbiased	303.53	303.16	-0.372
7	1e+13	NDD, unbiased	302.64	302.45	-0.19
8	1e+13	NDD, unbiased	303.64	303.29	-0.342
9	1e+13	NDD, unbiased	302.43	302.51	0.077
10	0	correlation	300.62	300.45	-0.164
11	0	correlation	303.46	303.25	-0.206
12	0	correlation	302.99	302.87	-0.12

## NDD vs Post - Pre Exposure Delta

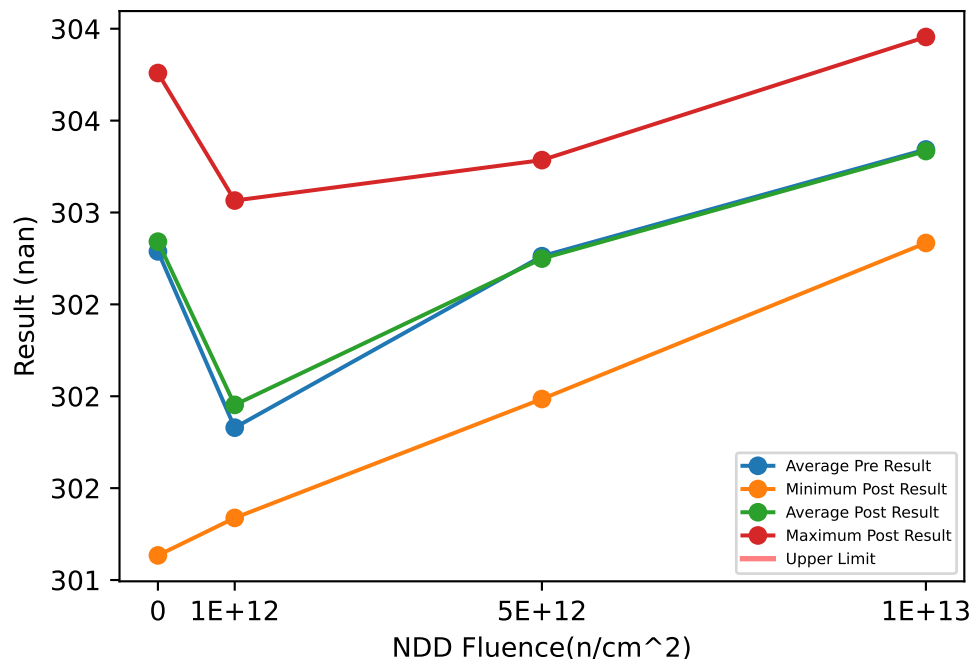


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	300.62	302.35	303.46	1.5231	300.45	302.19	303.25	1.5176	-0.206	-0.16333	-0.12	0.043004
1e+12	300.59	301.32	302.3	0.88378	301.07	301.69	302.91	1.0526	-0.005	0.372	0.607	0.32979
5e+12	301.63	302.6	303.53	0.95061	302.45	302.98	303.32	0.46436	-0.372	0.377	0.819	0.65216
1e+13	302.43	302.9	303.64	0.64546	302.45	302.75	303.29	0.47322	-0.342	-0.15167	0.077	0.21211

# Device Test: 10.42 UJXOZU(Kcs\_500mA\_CH3\_UJXOZU)

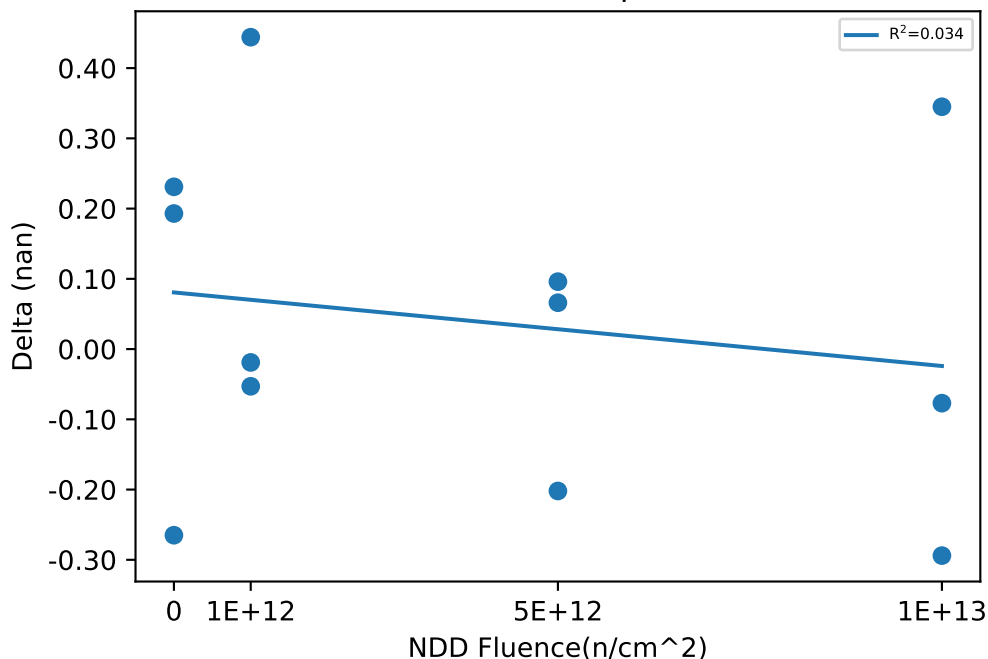
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	302.62	303.06	0.444
2	1e+12	NDD, unbiased	301.36	301.34	-0.019
3	1e+12	NDD, unbiased	301.51	301.46	-0.053
4	5e+12	NDD, unbiased	301.92	301.99	0.066
5	5e+12	NDD, unbiased	302.88	302.98	0.096
6	5e+12	NDD, unbiased	303.49	303.29	-0.202
7	1e+13	NDD, unbiased	303.13	302.83	-0.294
8	1e+13	NDD, unbiased	303.61	303.95	0.345
9	1e+13	NDD, unbiased	303.29	303.21	-0.077
10	0	correlation	300.94	301.13	0.193
11	0	correlation	304.02	303.76	-0.265
12	0	correlation	303.4	303.63	0.231

## NDD vs Post - Pre Exposure Delta

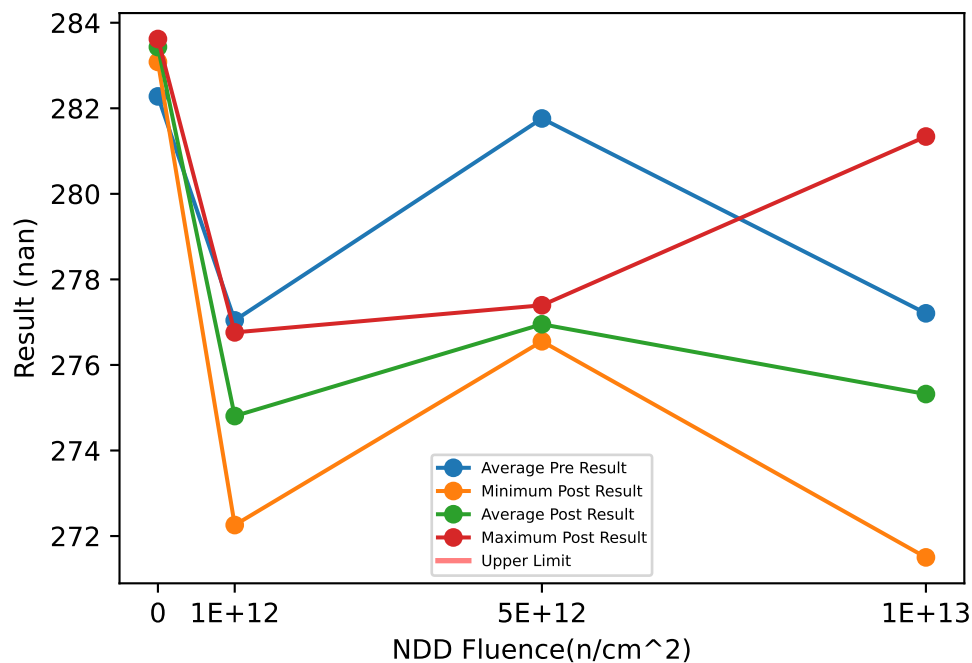


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	300.94	302.79	304.02	1.63	301.13	302.84	303.76	1.48	-0.265	0.053	0.231	0.27605
1e+12	301.36	301.83	302.62	0.69009	301.34	301.95	303.06	0.96483	-0.053	0.124	0.444	0.27765
5e+12	301.92	302.76	303.49	0.79071	301.99	302.75	303.29	0.67933	-0.202	-0.013333	0.096	0.16408
1e+13	303.13	303.34	303.61	0.24517	302.83	303.33	303.95	0.57011	-0.294	-0.0086667	0.345	0.32493

# Device Test: 10.43 UJXOZU(Kcs\_5mA\_CH4\_UJXOZU)

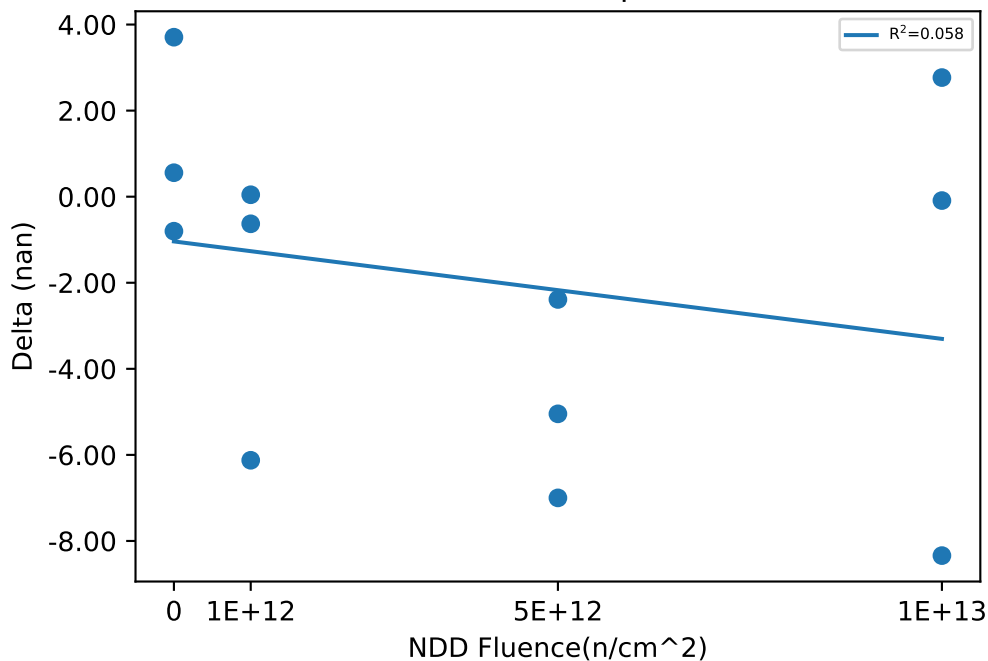
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	276.72	276.76	0.045
2	1e+12	NDD, unbiased	272.89	272.26	-0.63
3	1e+12	NDD, unbiased	281.52	275.4	-6.125
4	5e+12	NDD, unbiased	282.44	277.39	-5.046
5	5e+12	NDD, unbiased	283.55	276.55	-6.999
6	5e+12	NDD, unbiased	279.29	276.9	-2.388
7	1e+13	NDD, unbiased	278.57	281.34	2.768
8	1e+13	NDD, unbiased	271.59	271.5	-0.09
9	1e+13	NDD, unbiased	281.46	273.12	-8.34
10	0	correlation	279.91	283.62	3.706
11	0	correlation	283.03	283.59	0.557
12	0	correlation	283.89	283.08	-0.802

## NDD vs Post - Pre Exposure Delta

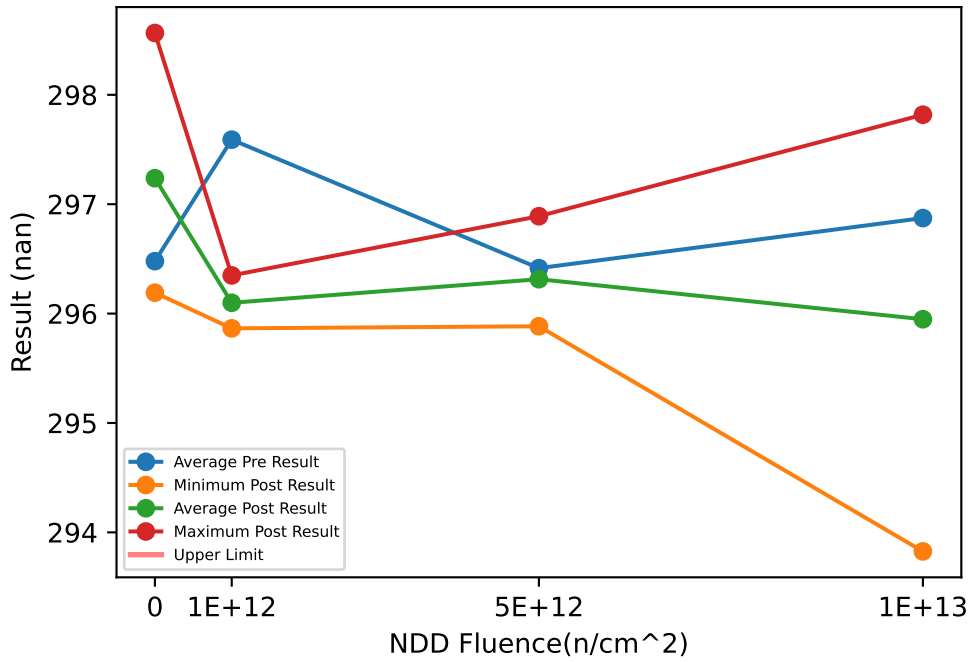


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	279.91	282.28	283.89	2.0911	283.08	283.43	283.62	0.30144	-0.802	1.1537	3.706	2.3125
1e+12	272.89	277.04	281.52	4.3272	272.26	274.81	276.76	2.3097	-6.125	-2.2367	0.045	3.3843
5e+12	279.29	281.76	283.55	2.2092	276.55	276.95	277.39	0.42288	-6.999	-4.811	-2.388	2.3145
1e+13	271.59	277.21	281.46	5.0727	271.5	275.32	281.34	5.2763	-8.34	-1.8873	2.768	5.768

# Device Test: 10.44 UJXOZU(Kcs\_25mA\_CH4\_UJXOZU)

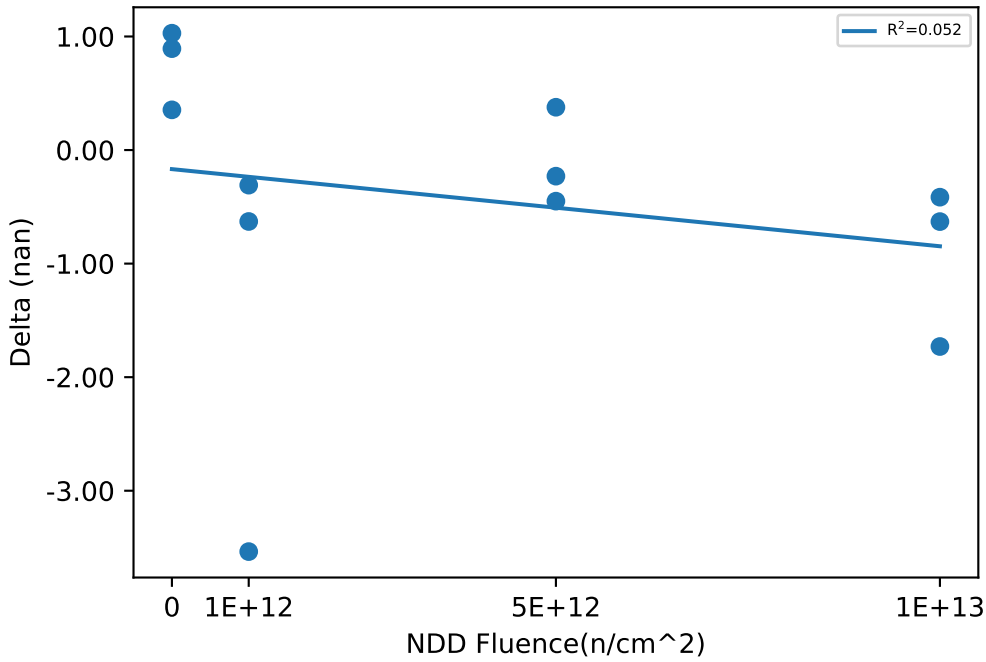
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	296.66	296.35	-0.309
2	1e+12	NDD, unbiased	296.71	296.08	-0.629
3	1e+12	NDD, unbiased	299.4	295.87	-3.536
4	5e+12	NDD, unbiased	296.62	296.17	-0.45
5	5e+12	NDD, unbiased	296.51	296.89	0.377
6	5e+12	NDD, unbiased	296.11	295.88	-0.23
7	1e+13	NDD, unbiased	298.23	297.82	-0.415
8	1e+13	NDD, unbiased	296.83	296.2	-0.63
9	1e+13	NDD, unbiased	295.56	293.83	-1.73
10	0	correlation	297.54	298.56	1.029
11	0	correlation	296.06	296.96	0.893
12	0	correlation	295.84	296.19	0.354

## NDD vs Post - Pre Exposure Delta

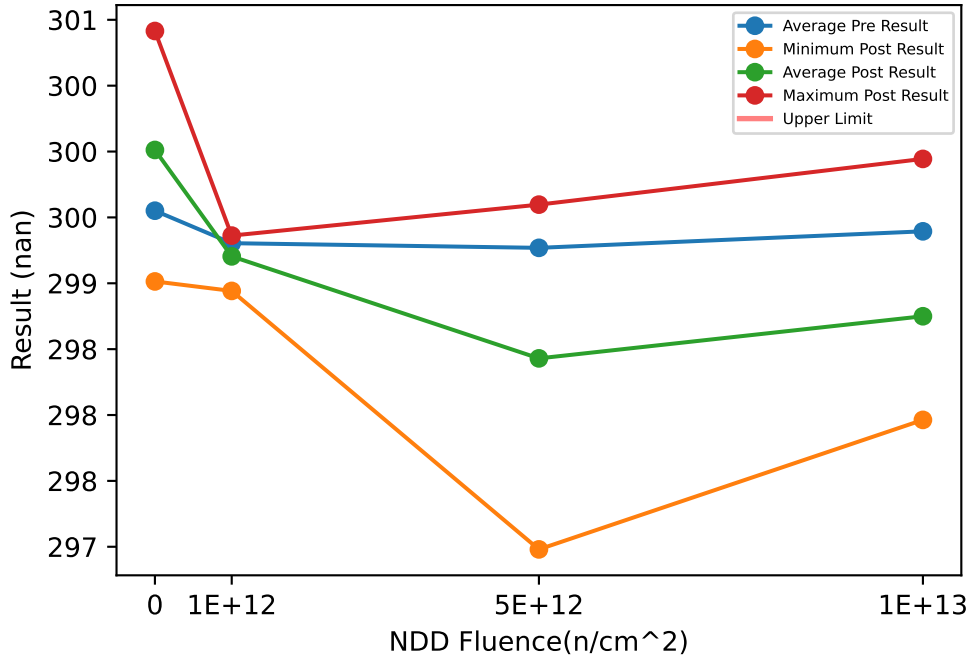


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	295.84	296.48	297.54	0.9224	296.19	297.24	298.56	1.2116	0.354	0.75867	1.029	0.35699
1e+12	296.66	297.59	299.4	1.5686	295.87	296.1	296.35	0.24243	-3.536	-1.4913	-0.309	1.7779
5e+12	296.11	296.42	296.62	0.26629	295.88	296.31	296.89	0.51851	-0.45	-0.101	0.377	0.42833
1e+13	295.56	296.87	298.23	1.339	293.83	295.95	297.82	2.008	-1.73	-0.925	-0.415	0.70539

# Device Test: 10.45 UJXOZU(Kcs\_50mA\_CH4\_UJXOZU)

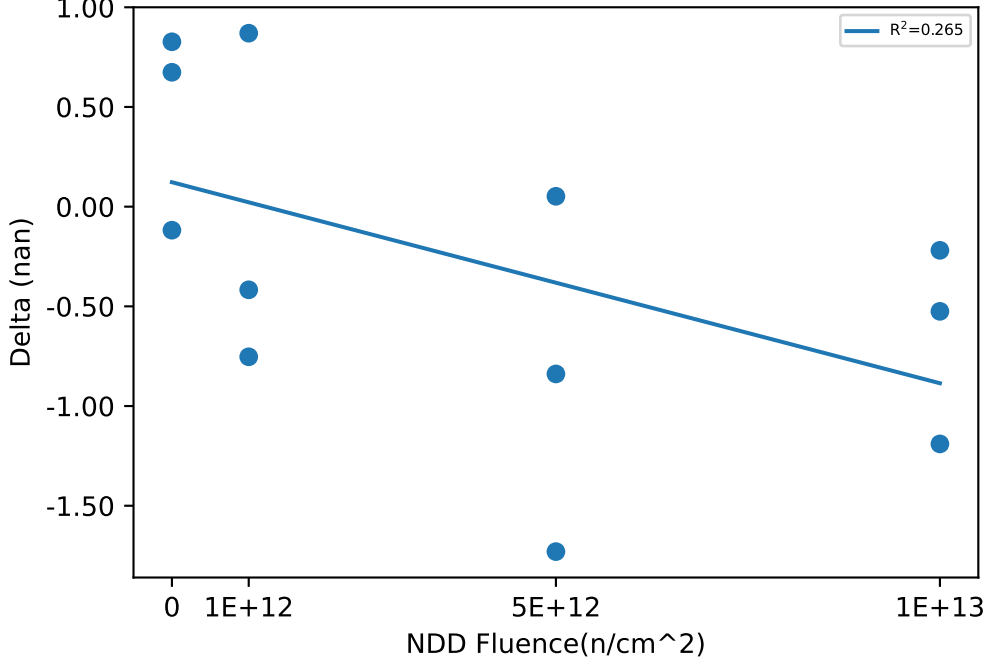
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	300.12	299.36	-0.753
2	1e+12	NDD, unbiased	298.44	299.31	0.87
3	1e+12	NDD, unbiased	299.36	298.94	-0.417
4	5e+12	NDD, unbiased	299.55	298.71	-0.839
5	5e+12	NDD, unbiased	299.55	299.6	0.052
6	5e+12	NDD, unbiased	298.71	296.98	-1.73
7	1e+13	NDD, unbiased	299.53	298.34	-1.19
8	1e+13	NDD, unbiased	300.16	299.94	-0.219
9	1e+13	NDD, unbiased	298.49	297.96	-0.525
10	0	correlation	300.09	300.92	0.827
11	0	correlation	299.43	300.11	0.674
12	0	correlation	299.13	299.01	-0.118

## NDD vs Post - Pre Exposure Delta

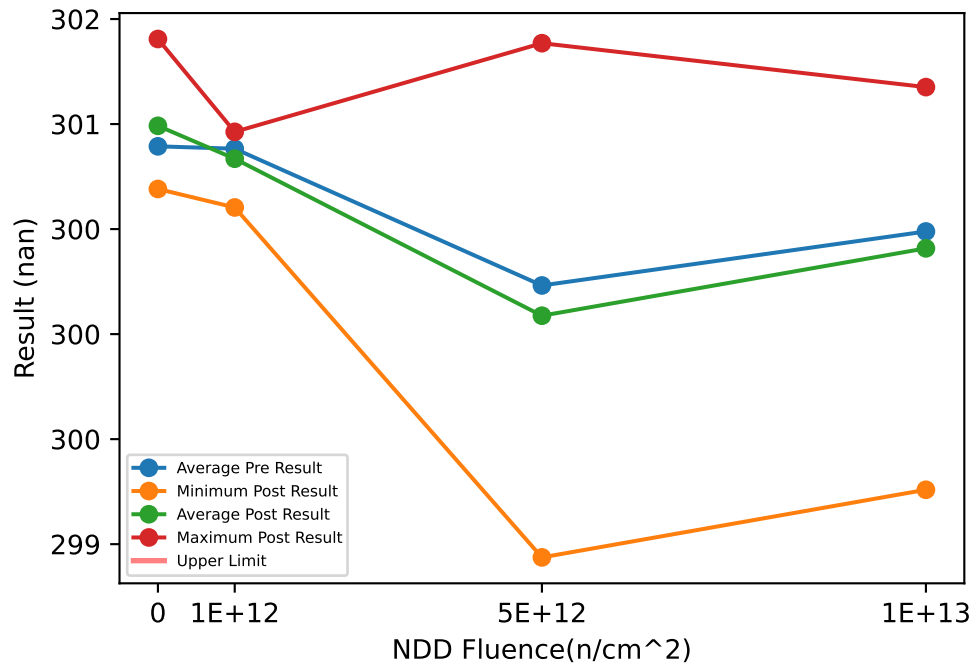


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	299.13	299.55	300.09	0.4888	299.01	300.01	300.92	0.95405	-0.118	0.461	0.827	0.50723
1e+12	298.44	299.3	300.12	0.83934	298.94	299.2	299.36	0.22873	-0.753	-0.1	0.87	0.85668
5e+12	298.71	299.27	299.55	0.48412	296.98	298.43	299.6	1.3313	-1.73	-0.839	0.052	0.891
1e+13	298.49	299.39	300.16	0.84594	297.96	298.75	299.94	1.0515	-1.19	-0.64467	-0.219	0.49644

# Device Test: 10.46 UJXOZU(Kcs\_100mA\_CH4\_UJXOZU)

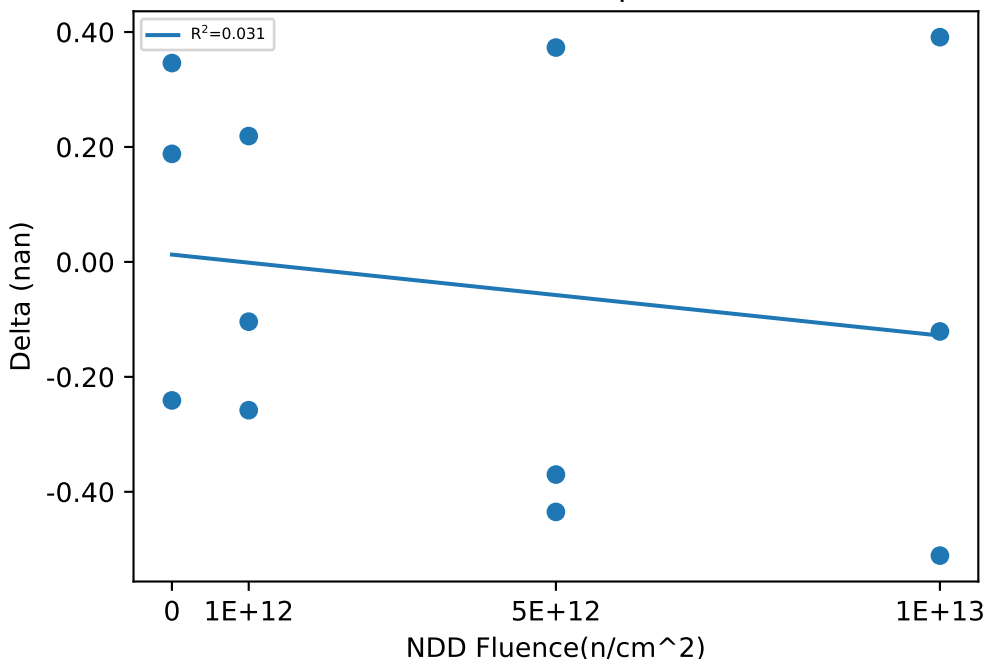
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	300.86	300.6	-0.258
2	1e+12	NDD, unbiased	301.04	300.94	-0.104
3	1e+12	NDD, unbiased	300.74	300.96	0.219
4	5e+12	NDD, unbiased	300.31	299.94	-0.37
5	5e+12	NDD, unbiased	301.01	301.38	0.373
6	5e+12	NDD, unbiased	299.37	298.94	-0.435
7	1e+13	NDD, unbiased	300.91	300.79	-0.121
8	1e+13	NDD, unbiased	300.79	301.18	0.391
9	1e+13	NDD, unbiased	299.77	299.26	-0.511
10	0	correlation	301.65	301.4	-0.241
11	0	correlation	300.69	300.88	0.188
12	0	correlation	300.35	300.69	0.346

## NDD vs Post - Pre Exposure Delta



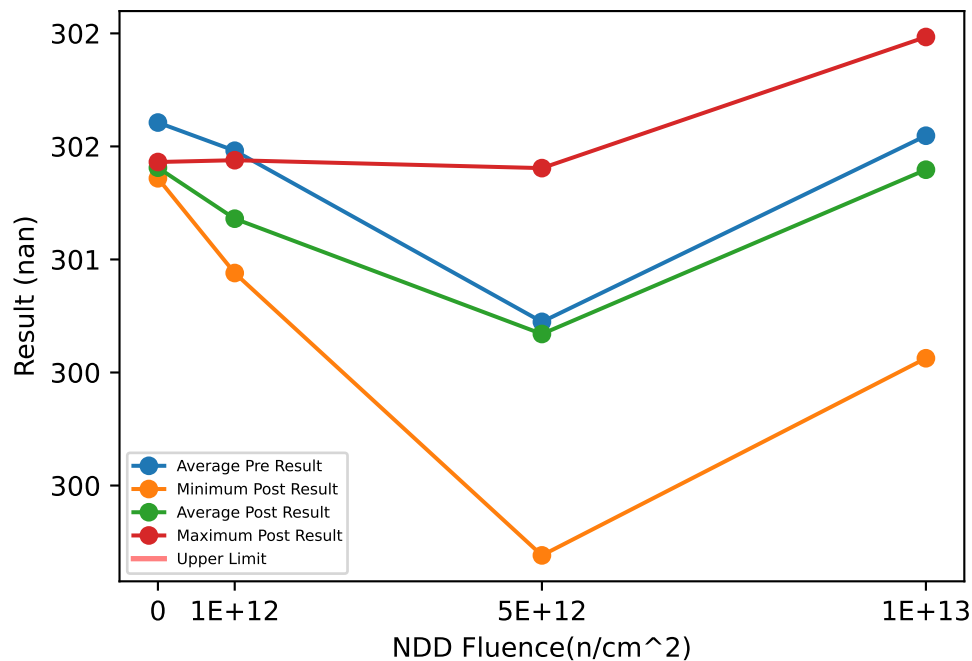
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	300.35	300.89	301.65	0.67384	300.69	300.99	301.4	0.37009	-0.241	0.097667	0.346	0.30375
1e+12	300.74	300.88	301.04	0.15067	300.6	300.84	300.96	0.20128	-0.258	-0.047667	0.219	0.24344
5e+12	299.37	300.23	301.01	0.82287	298.94	300.09	301.38	1.2306	-0.435	-0.144	0.373	0.44891
1e+13	299.77	300.49	300.91	0.62556	299.26	300.41	301.18	1.0139	-0.511	-0.080333	0.391	0.45237



# Device Test: 10.47 UJXOZU(Kcs\_250mA\_CH4\_UJXOZU)

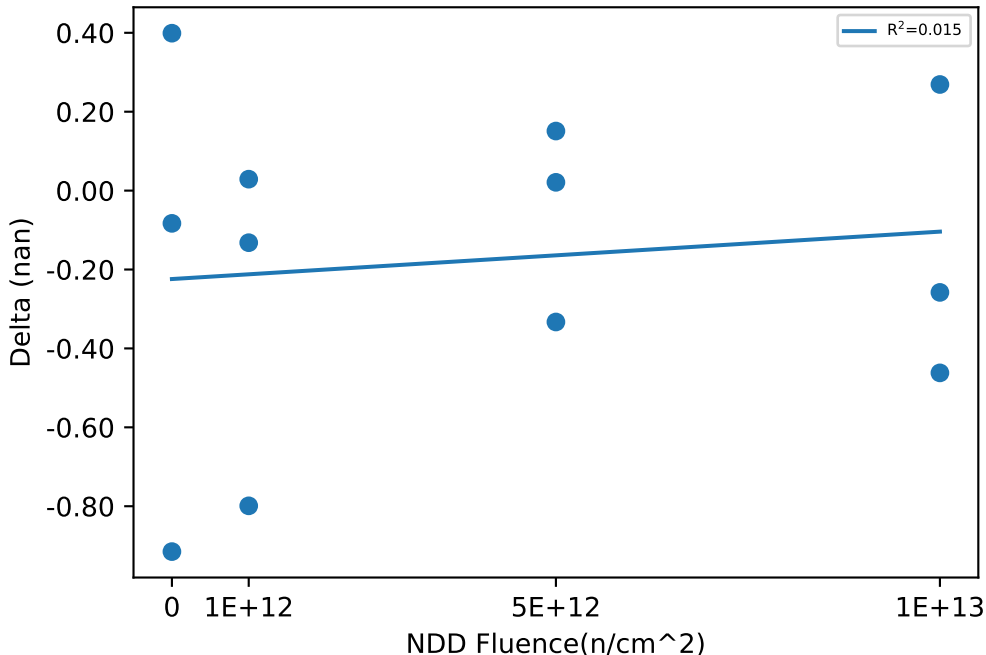
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	301.13	301.16	0.029
2	1e+12	NDD, unbiased	301.74	300.94	-0.799
3	1e+12	NDD, unbiased	301.57	301.44	-0.132
4	5e+12	NDD, unbiased	300.76	300.92	0.151
5	5e+12	NDD, unbiased	301.74	301.4	-0.333
6	5e+12	NDD, unbiased	299.67	299.69	0.021
7	1e+13	NDD, unbiased	301.71	301.98	0.269
8	1e+13	NDD, unbiased	302.11	301.64	-0.462
9	1e+13	NDD, unbiased	300.82	300.56	-0.258
10	0	correlation	302.35	301.43	-0.915
11	0	correlation	301.44	301.36	-0.083
12	0	correlation	301.03	301.43	0.399

## NDD vs Post - Pre Exposure Delta

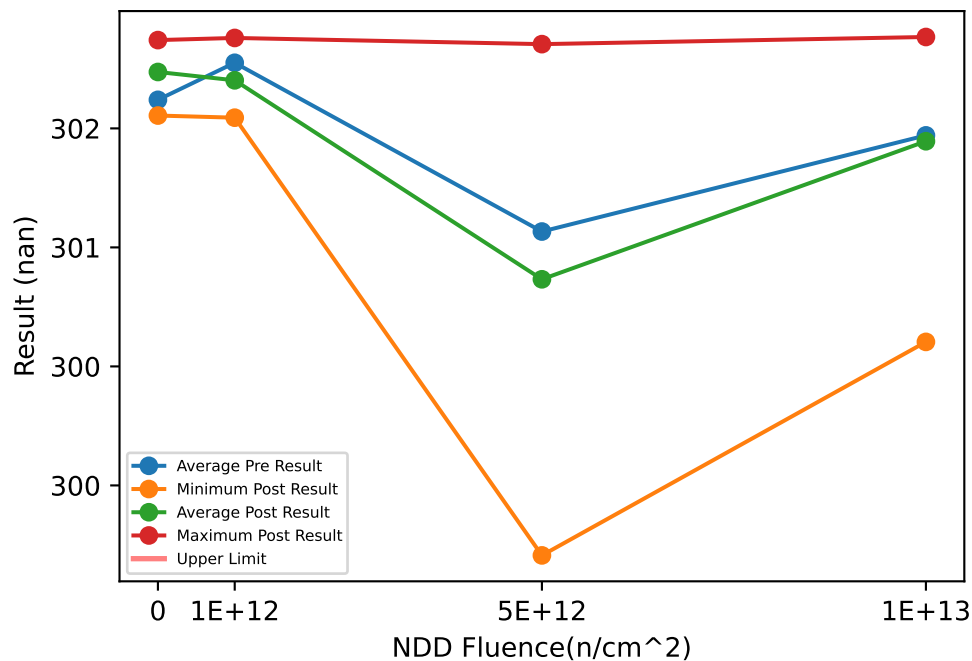


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	301.03	301.61	302.35	0.67358	301.36	301.41	301.43	0.040731	-0.915	-0.19967	0.399	0.66472
1e+12	301.13	301.48	301.74	0.31286	300.94	301.18	301.44	0.25	-0.799	-0.30067	0.029	0.43901
5e+12	299.67	300.72	301.74	1.0341	299.69	300.67	301.4	0.88253	-0.333	-0.053667	0.151	0.25049
1e+13	300.82	301.55	302.11	0.6587	300.56	301.4	301.98	0.742	-0.462	-0.15033	0.269	0.37721

# Device Test: 10.48 UJXOZU(Kcs\_500mA\_CH4\_UJXOZU)

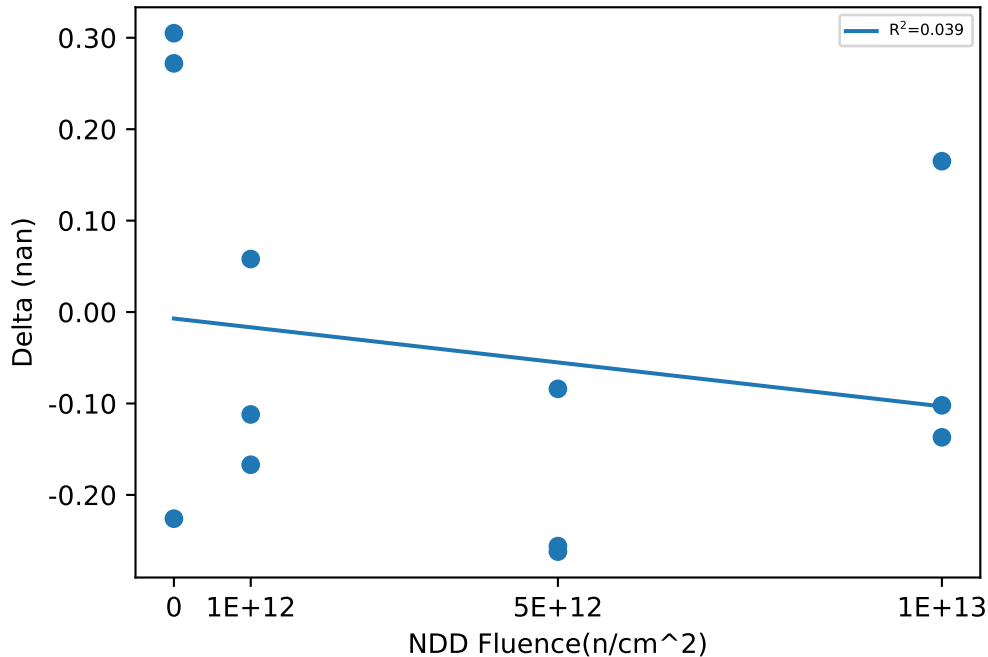
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	301.66	301.55	-0.112
2	1e+12	NDD, unbiased	301.85	301.68	-0.167
3	1e+12	NDD, unbiased	301.82	301.88	0.058
4	5e+12	NDD, unbiased	301.12	301.04	-0.084
5	5e+12	NDD, unbiased	302.12	301.85	-0.262
6	5e+12	NDD, unbiased	299.96	299.71	-0.256
7	1e+13	NDD, unbiased	301.69	301.85	0.165
8	1e+13	NDD, unbiased	302.02	301.88	-0.137
9	1e+13	NDD, unbiased	300.7	300.6	-0.102
10	0	correlation	302.1	301.87	-0.226
11	0	correlation	301.48	301.79	0.305
12	0	correlation	301.28	301.55	0.272

## NDD vs Post - Pre Exposure Delta

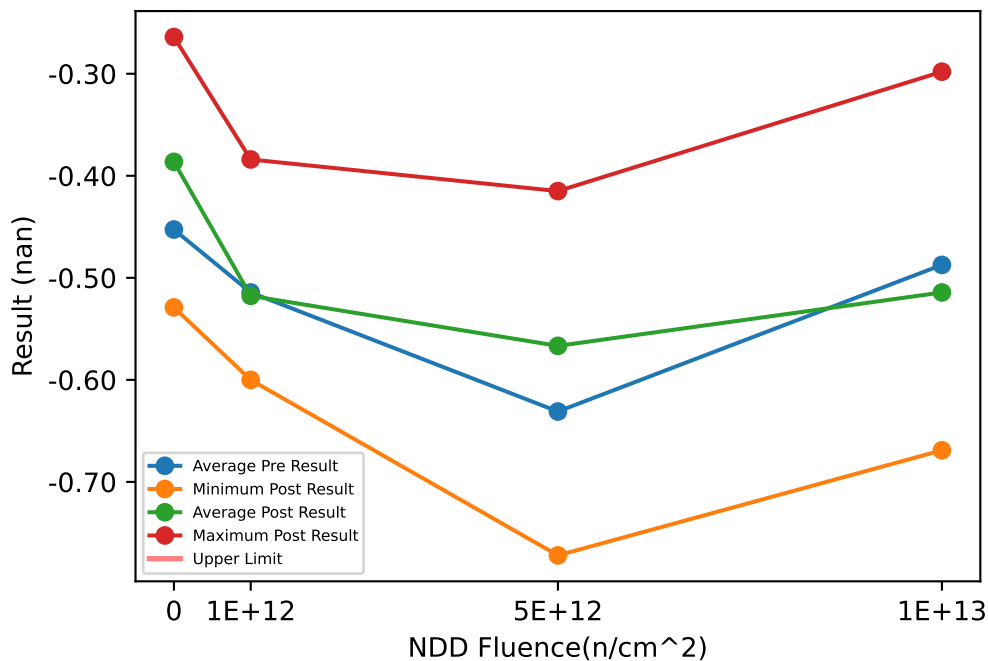


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	301.28	301.62	302.1	0.42491	301.55	301.74	301.87	0.16408	-0.226	0.117	0.305	0.2975
1e+12	301.66	301.78	301.85	0.10359	301.55	301.7	301.88	0.16848	-0.167	-0.073667	0.058	0.1173
5e+12	299.96	301.07	302.12	1.0781	299.71	300.87	301.85	1.0843	-0.262	-0.20067	-0.084	0.10108
1e+13	300.7	301.47	302.02	0.68392	300.6	301.45	301.88	0.73025	-0.137	-0.024667	0.165	0.16519

# Device Test: 10.6 UJA0RR(dCSR\_500mA\_CH1\_UJA0RR)

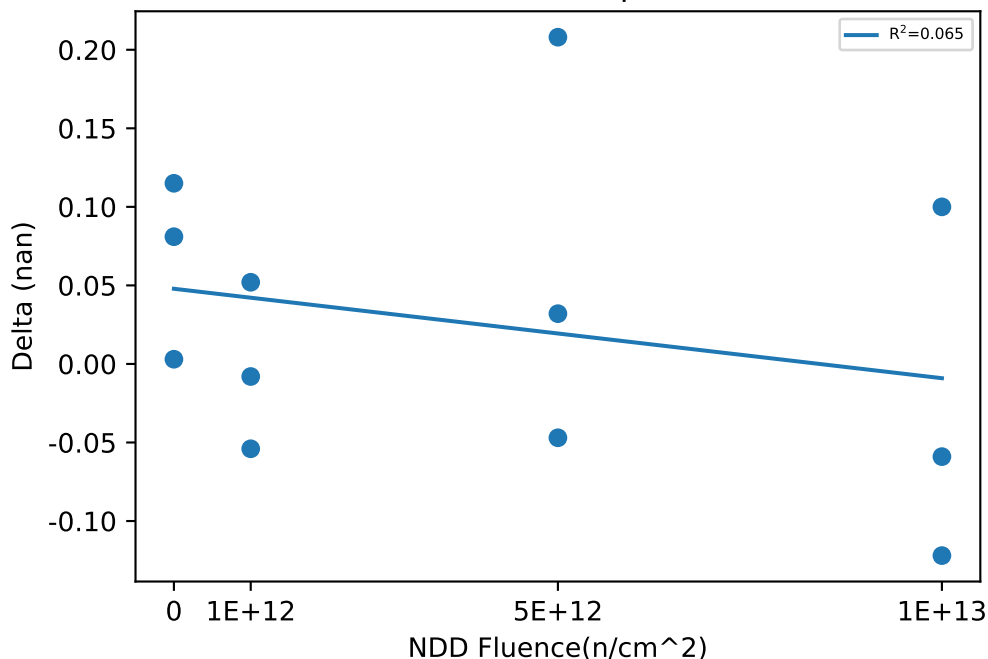
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.376	-0.384	-0.008
2	1e+12	NDD, unbiased	-0.546	-0.6	-0.054
3	1e+12	NDD, unbiased	-0.621	-0.569	0.052
4	5e+12	NDD, unbiased	-0.623	-0.415	0.208
5	5e+12	NDD, unbiased	-0.804	-0.772	0.032
6	5e+12	NDD, unbiased	-0.466	-0.513	-0.047
7	1e+13	NDD, unbiased	-0.517	-0.576	-0.059
8	1e+13	NDD, unbiased	-0.547	-0.669	-0.122
9	1e+13	NDD, unbiased	-0.398	-0.298	0.1
10	0	correlation	-0.644	-0.529	0.115
11	0	correlation	-0.369	-0.366	0.003
12	0	correlation	-0.345	-0.264	0.081

## NDD vs Post - Pre Exposure Delta

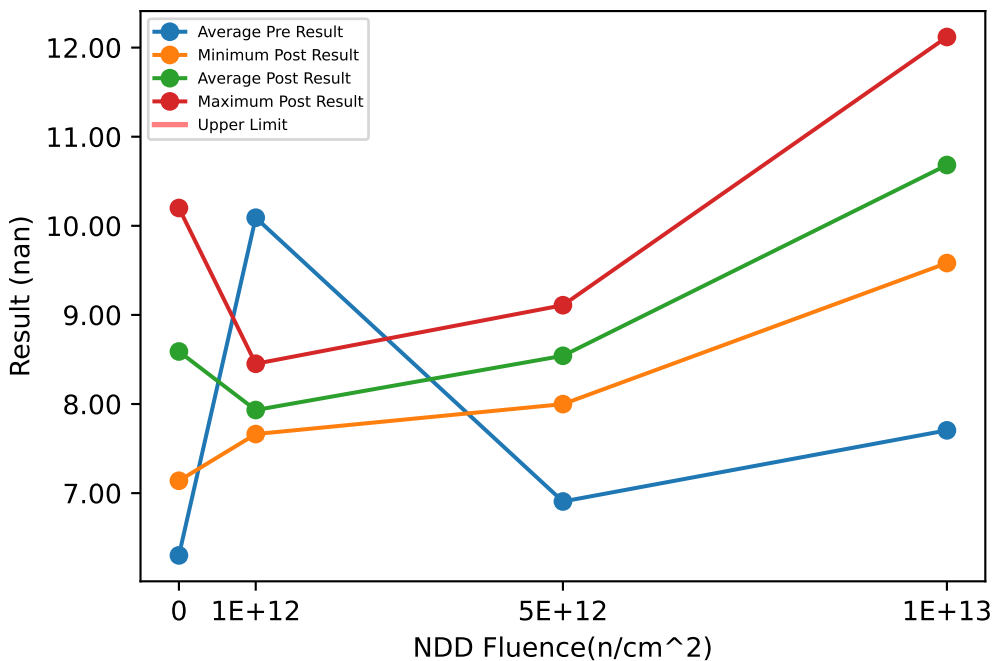


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.644	-0.45267	-0.345	0.16613	-0.529	-0.38633	-0.264	0.13367	0.003	0.066333	0.115	0.057422
1e+12	-0.621	-0.51433	-0.376	0.12553	-0.6	-0.51767	-0.384	0.11679	-0.054	-0.0033333	0.052	0.053154
5e+12	-0.804	-0.631	-0.466	0.16914	-0.772	-0.56667	-0.415	0.18445	-0.047	0.064333	0.208	0.13054
1e+13	-0.547	-0.48733	-0.398	0.078806	-0.669	-0.51433	-0.298	0.19303	-0.122	-0.027	0.1	0.11441

# Device Test: 10.7 UJR405(dCSR\_5mA\_CH2\_UJR405)

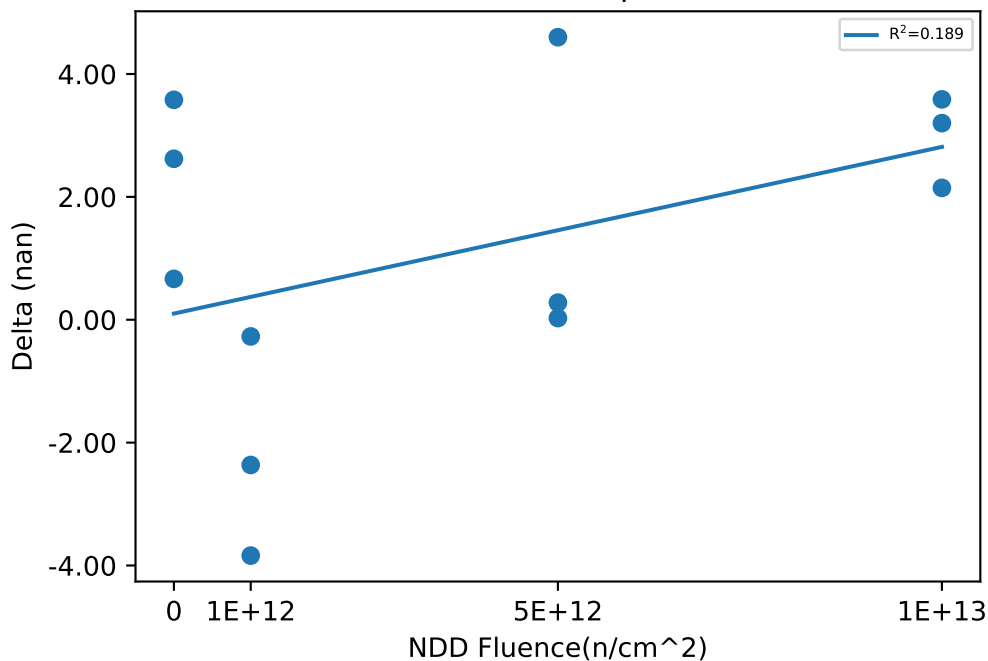
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	7.955	7.683	-0.272
2	1e+12	NDD, unbiased	11.502	7.663	-3.839
3	1e+12	NDD, unbiased	10.816	8.452	-2.364
4	5e+12	NDD, unbiased	8.237	8.516	0.279
5	5e+12	NDD, unbiased	4.51	9.109	4.599
6	5e+12	NDD, unbiased	7.972	7.999	0.027
7	1e+13	NDD, unbiased	7.436	9.582	2.146
8	1e+13	NDD, unbiased	7.146	10.346	3.2
9	1e+13	NDD, unbiased	8.532	12.119	3.587
10	0	correlation	6.474	7.139	0.665
11	0	correlation	6.62	10.2	3.58
12	0	correlation	5.81	8.43	2.62

## NDD vs Post - Pre Exposure Delta

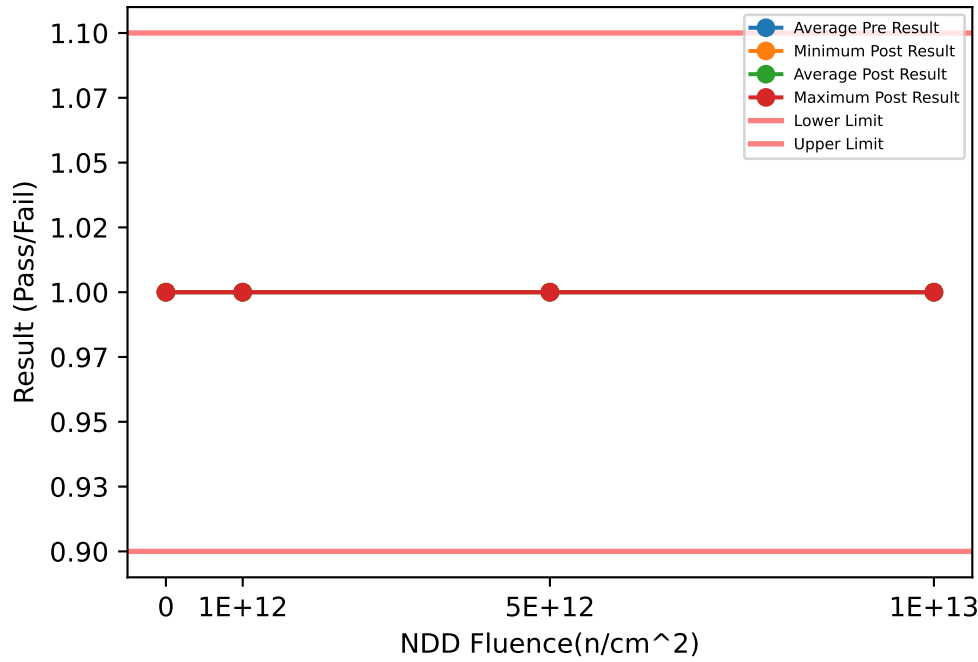


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.81	6.3013	6.62	0.43172	7.139	8.5897	10.2	1.5367	0.665	2.2883	3.58	1.4855
1e+12	7.955	10.091	11.502	1.8814	7.663	7.9327	8.452	0.44987	-3.839	-2.1583	-0.272	1.7924
5e+12	4.51	6.9063	8.237	2.0795	7.999	8.5413	9.109	0.55543	0.027	1.635	4.599	2.57
1e+13	7.146	7.7047	8.532	0.73102	9.582	10.682	12.119	1.3015	2.146	2.9777	3.587	0.74578

# Device Test: 10.761 UJQY9R(VCS\_LINEAR\_6p5V\_Go-No-Go\_UJQY9R)

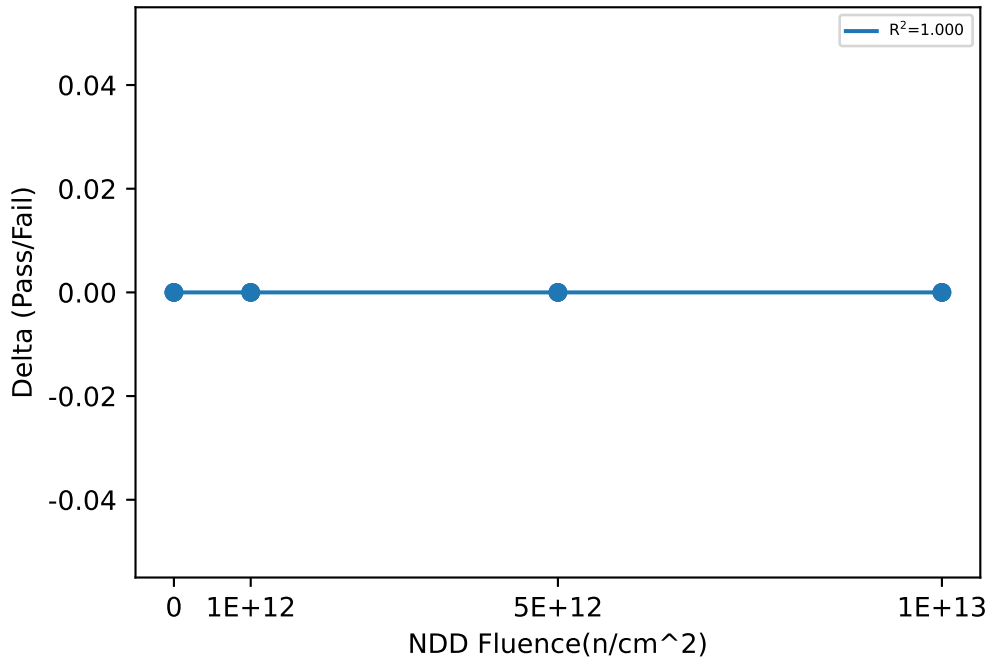
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

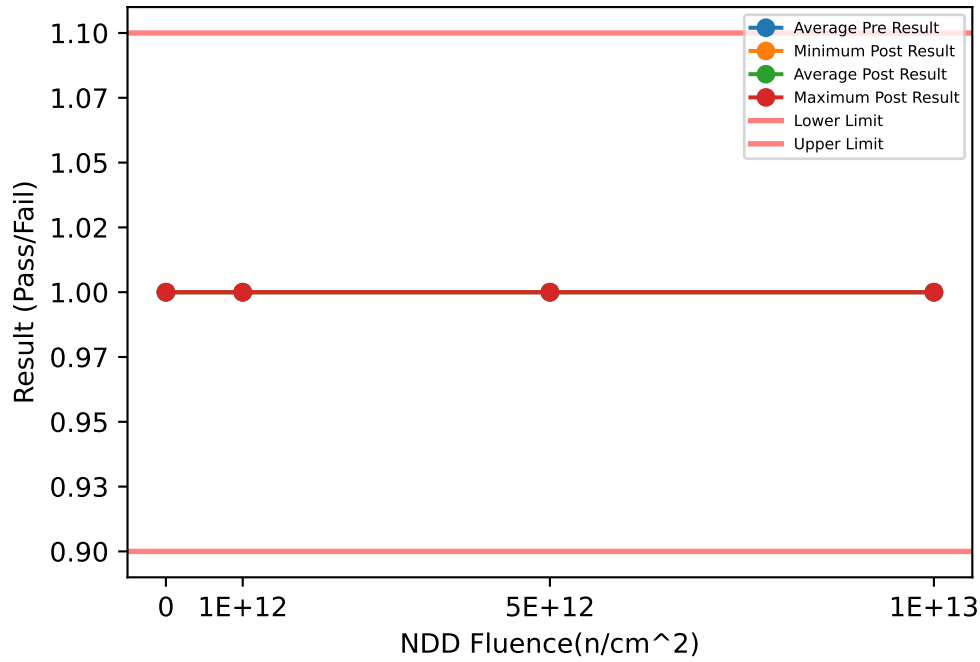


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 10.791 UJWB0Y(VCS\_LINEAR\_5V\_Go-No-Go\_UJWB0Y)

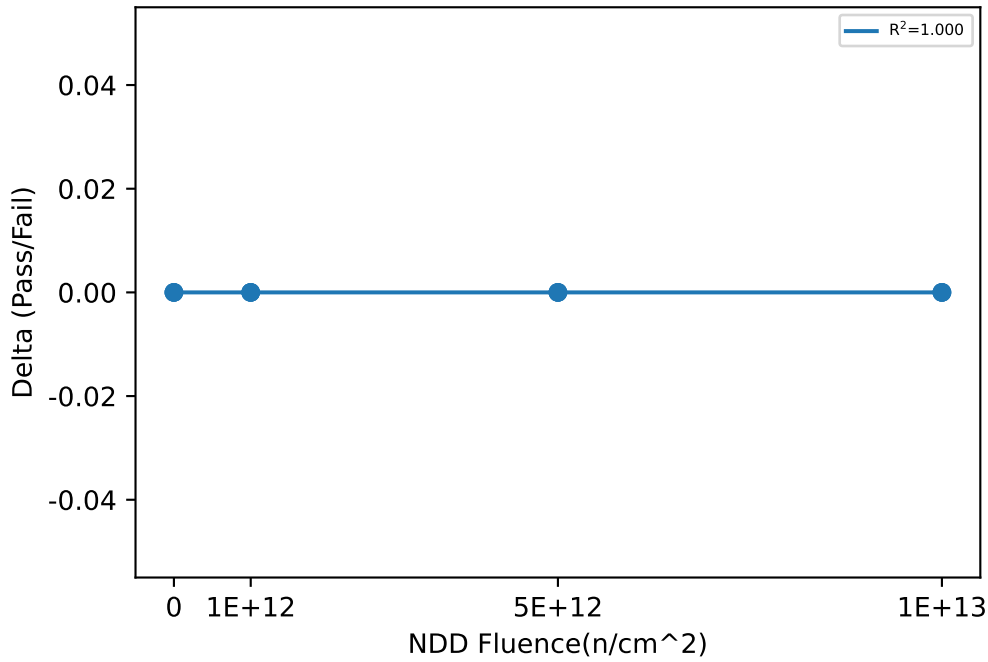
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

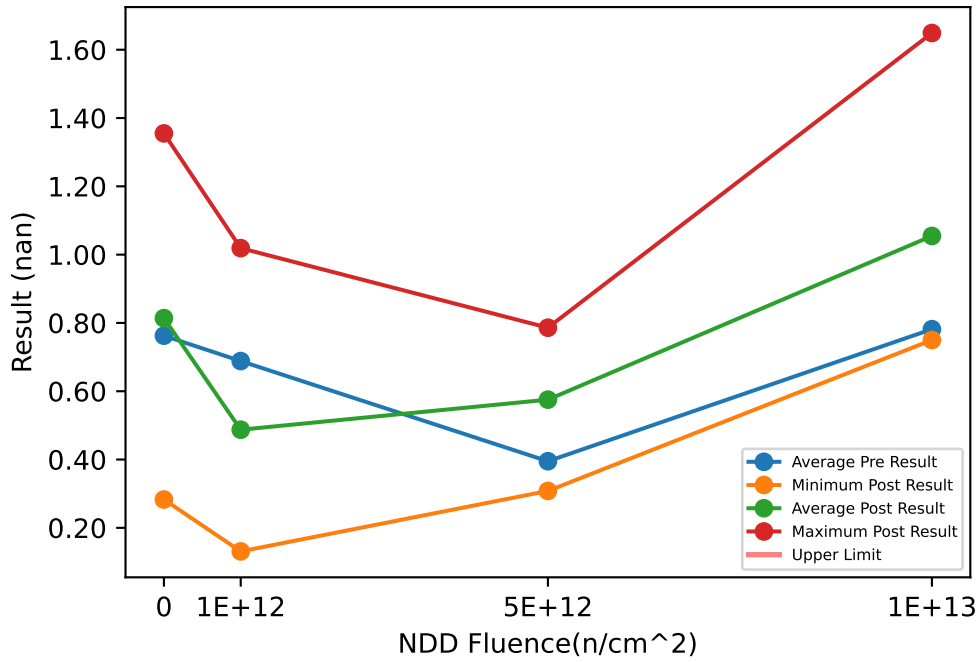


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 10.8 UJFZSP(dCSR\_25mA\_CH2\_UJFZSP)

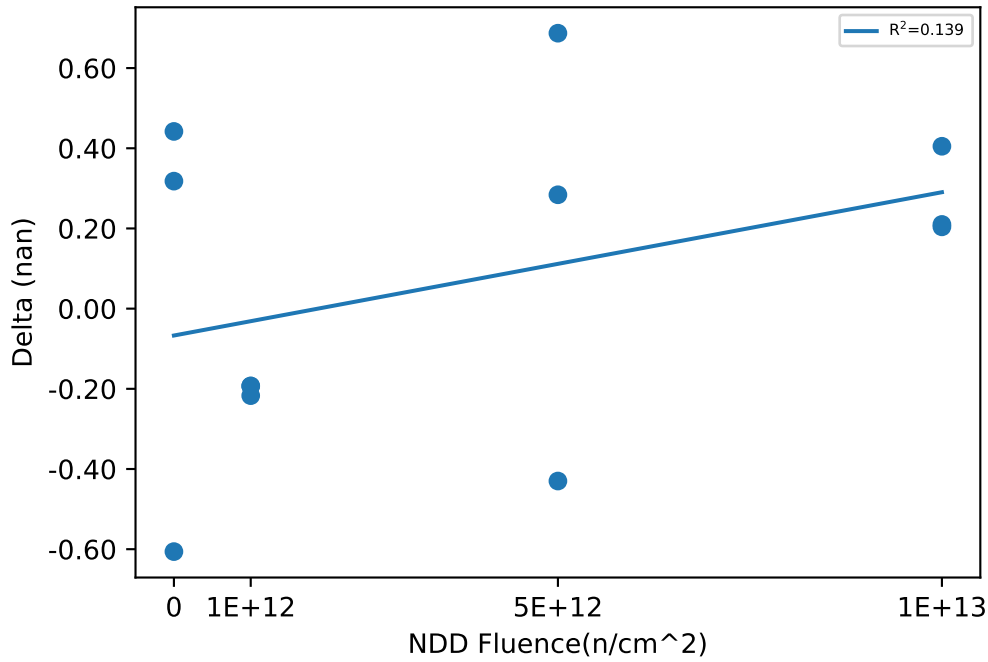
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.505	0.312	-0.193
2	1e+12	NDD, unbiased	1.236	1.019	-0.217
3	1e+12	NDD, unbiased	0.324	0.131	-0.193
4	5e+12	NDD, unbiased	1.216	0.786	-0.43
5	5e+12	NDD, unbiased	-0.055	0.632	0.687
6	5e+12	NDD, unbiased	0.024	0.308	0.284
7	1e+13	NDD, unbiased	0.345	0.75	0.405
8	1e+13	NDD, unbiased	0.555	0.765	0.21
9	1e+13	NDD, unbiased	1.445	1.649	0.204
10	0	correlation	0.486	0.804	0.318
11	0	correlation	0.913	1.355	0.442
12	0	correlation	0.889	0.283	-0.606

## NDD vs Post - Pre Exposure Delta

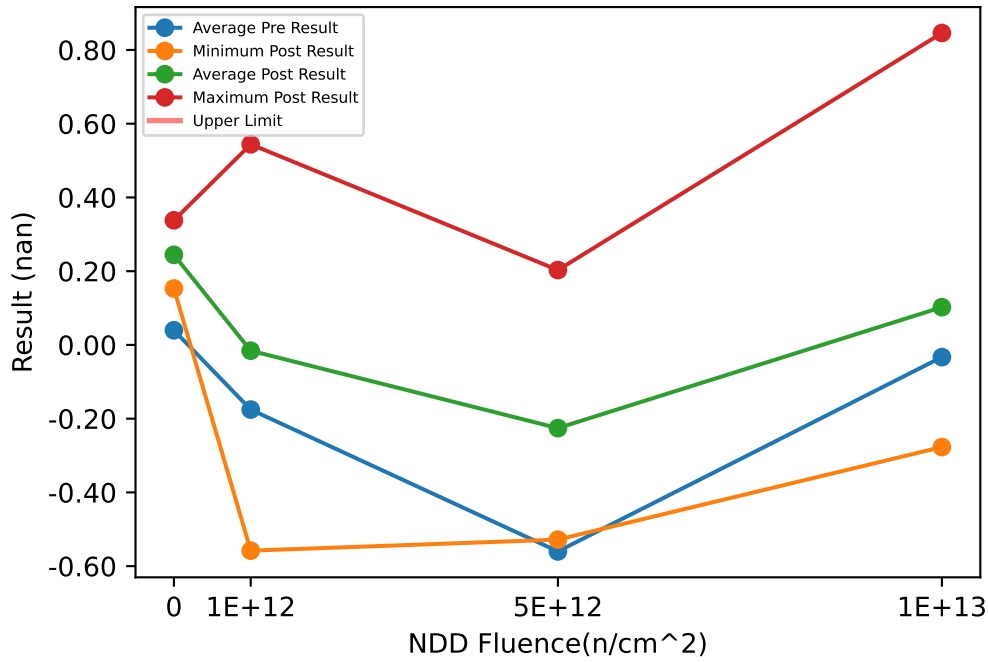


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.486	0.76267	0.913	0.2399	0.283	0.814	1.355	0.53607	-0.606	0.051333	0.442	0.57263
1e+12	0.324	0.68833	1.236	0.48285	0.131	0.48733	1.019	0.46925	-0.217	-0.201	-0.193	0.013856
5e+12	-0.055	0.395	1.216	0.7121	0.308	0.57533	0.786	0.24399	-0.43	0.18033	0.687	0.56567
1e+13	0.345	0.78167	1.445	0.58398	0.75	1.0547	1.649	0.51476	0.204	0.273	0.405	0.11435

# Device Test: 10.9 UJF0T(dCSR\_50mA\_CH2\_UJF0T)

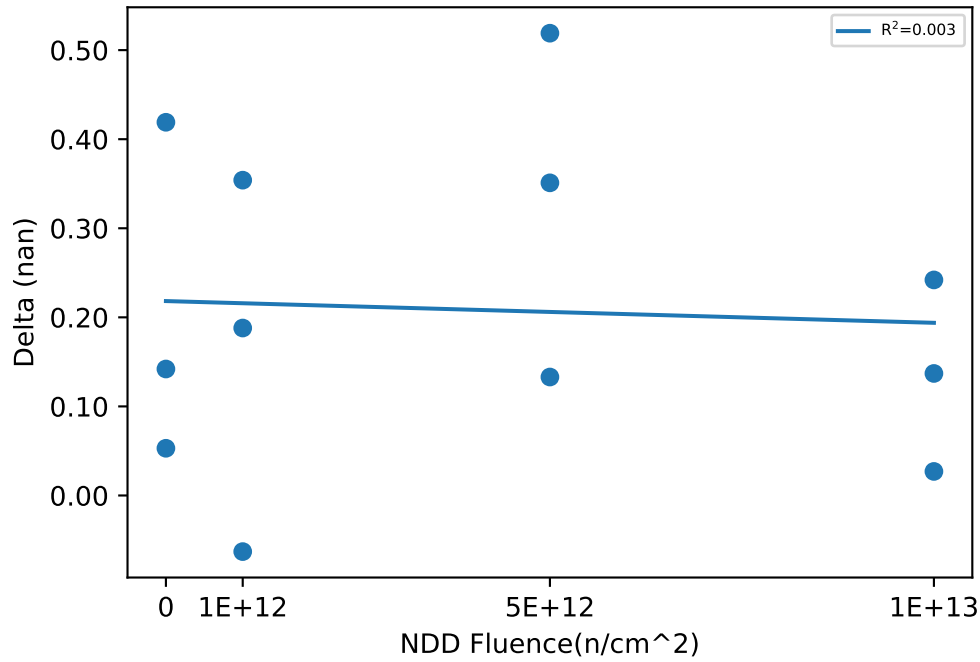
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.495	-0.558	-0.063
2	1e+12	NDD, unbiased	0.19	0.544	0.354
3	1e+12	NDD, unbiased	-0.221	-0.033	0.188
4	5e+12	NDD, unbiased	-0.148	0.203	0.351
5	5e+12	NDD, unbiased	-0.661	-0.528	0.133
6	5e+12	NDD, unbiased	-0.871	-0.352	0.519
7	1e+13	NDD, unbiased	-0.304	-0.277	0.027
8	1e+13	NDD, unbiased	-0.399	-0.262	0.137
9	1e+13	NDD, unbiased	0.604	0.846	0.242
10	0	correlation	0.285	0.338	0.053
11	0	correlation	0.1	0.242	0.142
12	0	correlation	-0.266	0.153	0.419

## NDD vs Post - Pre Exposure Delta



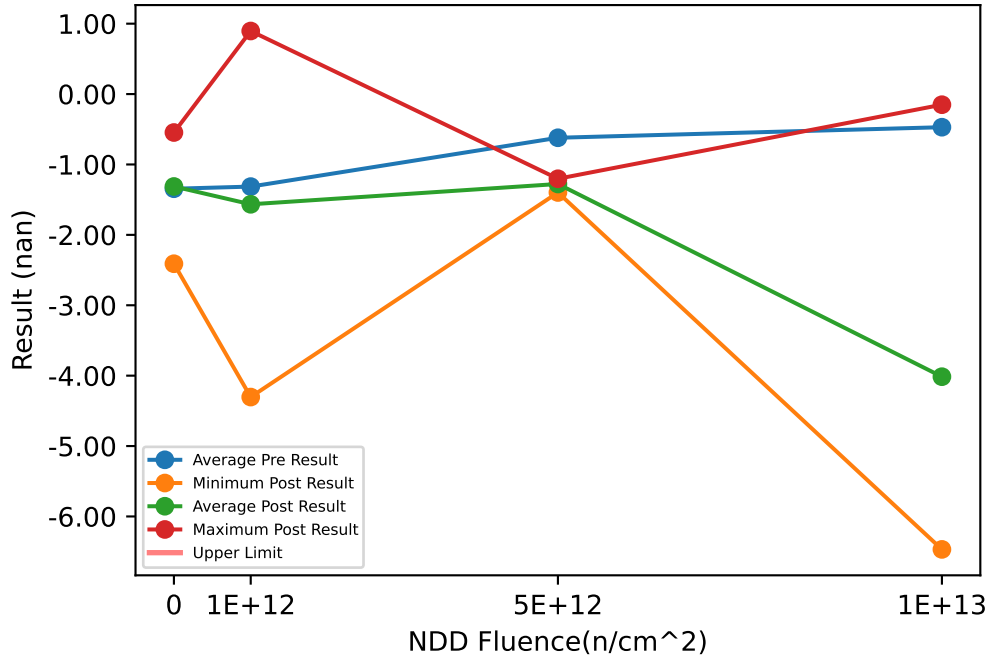
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.266	0.039667	0.285	0.28041	0.153	0.24433	0.338	0.092522	0.053	0.20467	0.419	0.19088
1e+12	-0.495	-0.17533	0.19	0.34478	-0.558	-0.015667	0.544	0.5512	-0.063	0.15967	0.354	0.20994
5e+12	-0.871	-0.56	-0.148	0.37193	-0.528	-0.22567	0.203	0.38152	0.133	0.33433	0.519	0.19354
1e+13	-0.399	-0.033	0.604	0.5537	-0.277	0.10233	0.846	0.64408	0.027	0.13533	0.242	0.10751



# Device Test: 11.1 UJ9ZQ5(dCLR\_P25A\_CH1\_UJ9ZQ5)

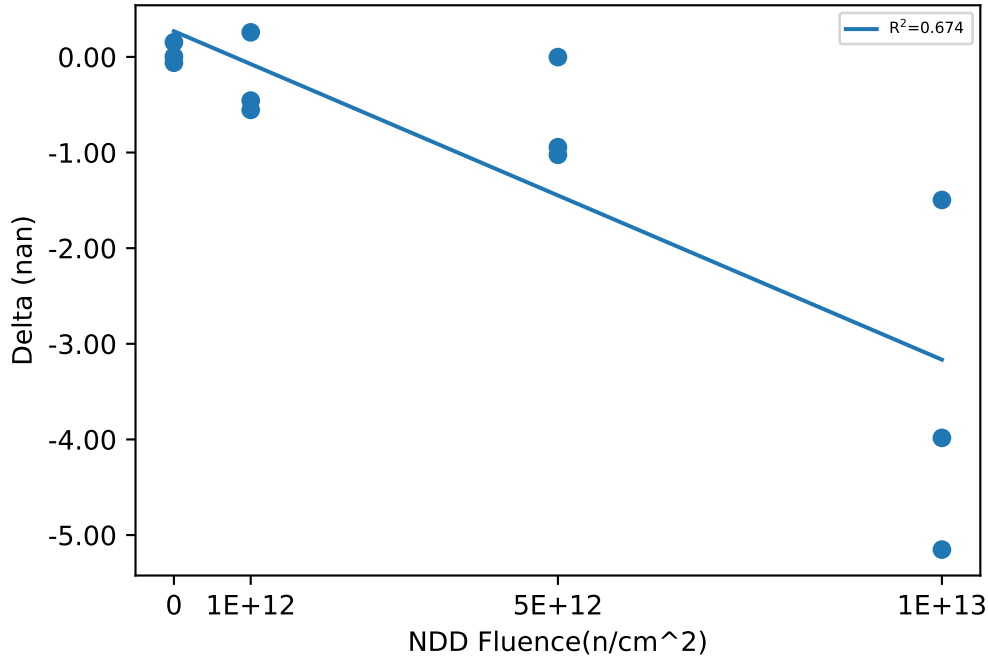
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.735	-1.289	-0.554
2	1e+12	NDD, unbiased	-3.847	-4.304	-0.457
3	1e+12	NDD, unbiased	0.639	0.896	0.257
4	5e+12	NDD, unbiased	-0.259	-1.203	-0.944
5	5e+12	NDD, unbiased	-0.207	-1.231	-1.024
6	5e+12	NDD, unbiased	-1.396	-1.398	-0.002
7	1e+13	NDD, unbiased	3.833	-0.151	-3.984
8	1e+13	NDD, unbiased	-3.929	-5.425	-1.496
9	1e+13	NDD, unbiased	-1.316	-6.468	-5.152
10	0	correlation	-2.414	-2.41	0.004
11	0	correlation	-0.921	-0.982	-0.061
12	0	correlation	-0.699	-0.546	0.153

## NDD vs Post - Pre Exposure Delta

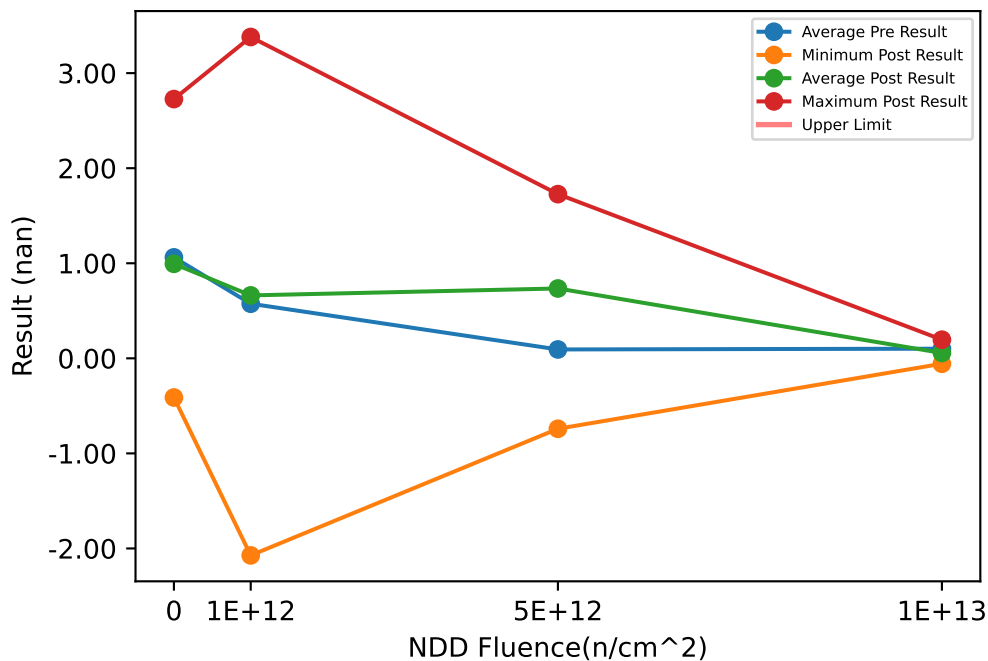


## Test Statistics (nan)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2.414	-1.3447	-0.699	0.9327	-2.41	-1.3127	-0.546	0.975	-0.061	0.032	0.153	0.10971
1e+12	-3.847	-1.3143	0.639	2.2984	-4.304	-1.5657	0.896	2.611	-0.554	-0.25133	0.257	0.44289
5e+12	-1.396	-0.62067	-0.207	0.67196	-1.398	-1.2773	-1.203	0.10543	-1.024	-0.65667	-0.002	0.56837
1e+13	-3.929	-0.47067	3.833	3.9494	-6.468	-4.0147	-0.151	3.3864	-5.152	-3.544	-1.496	1.8673

# Device Test: 11.10 UJQ28B(Delta\_dCLR\_P5A\_CH1CH3\_UJQ28B)

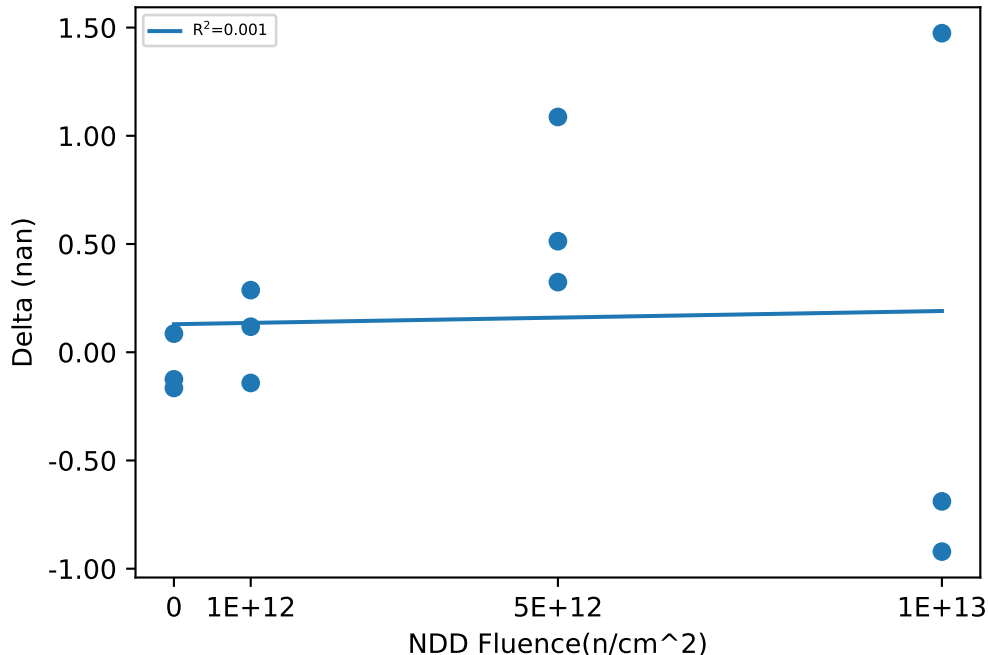
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-1.931	-2.073	-0.142
2	1e+12	NDD, unbiased	0.561	0.679	0.118
3	1e+12	NDD, unbiased	3.093	3.38	0.287
4	5e+12	NDD, unbiased	0.64	1.727	1.087
5	5e+12	NDD, unbiased	0.894	1.218	0.324
6	5e+12	NDD, unbiased	-1.254	-0.741	0.513
7	1e+13	NDD, unbiased	0.632	-0.057	-0.689
8	1e+13	NDD, unbiased	-1.278	0.196	1.474
9	1e+13	NDD, unbiased	0.95	0.029	-0.921
10	0	correlation	0.832	0.667	-0.165
11	0	correlation	-0.287	-0.412	-0.125
12	0	correlation	2.641	2.727	0.086

## NDD vs Post - Pre Exposure Delta

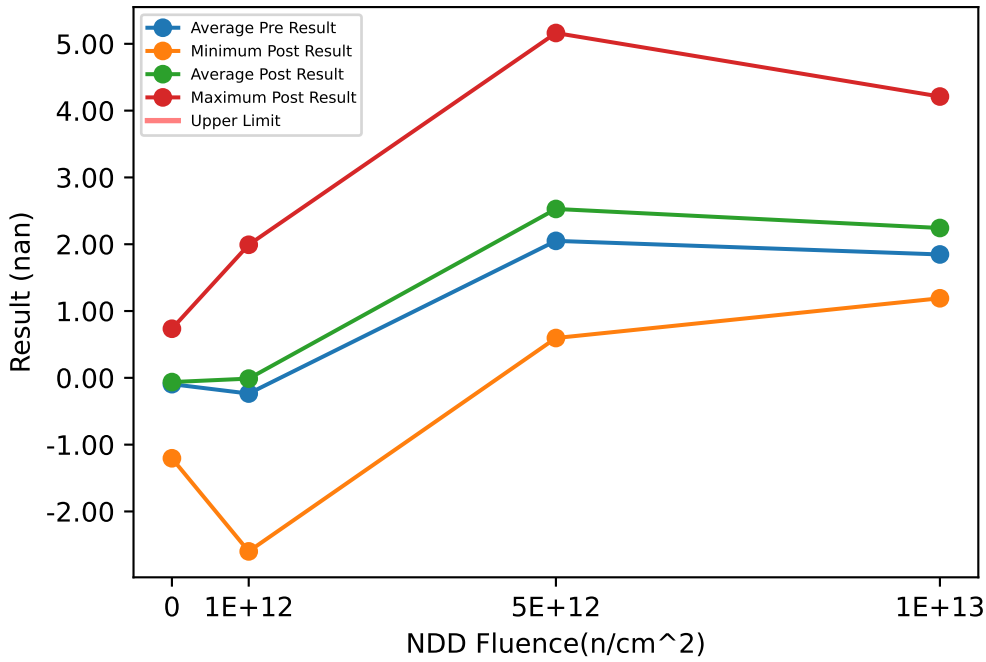


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.287	1.062	2.641	1.4775	-0.412	0.994	2.727	1.5948	-0.165	-0.068	0.086	0.13486
1e+12	-1.931	0.57433	3.093	2.512	-2.073	0.662	3.38	2.7265	-0.142	0.087667	0.287	0.2161
5e+12	-1.254	0.093333	0.894	1.1737	-0.741	0.73467	1.727	1.3031	0.324	0.64133	1.087	0.39736
1e+13	-1.278	0.10133	0.95	1.2051	-0.057	0.056	0.196	0.12864	-0.921	-0.045333	1.474	1.3209

# Device Test: 11.11 UJ8ROM(Delta\_dCLR\_P5A\_CH1CH4\_UJ8ROM)

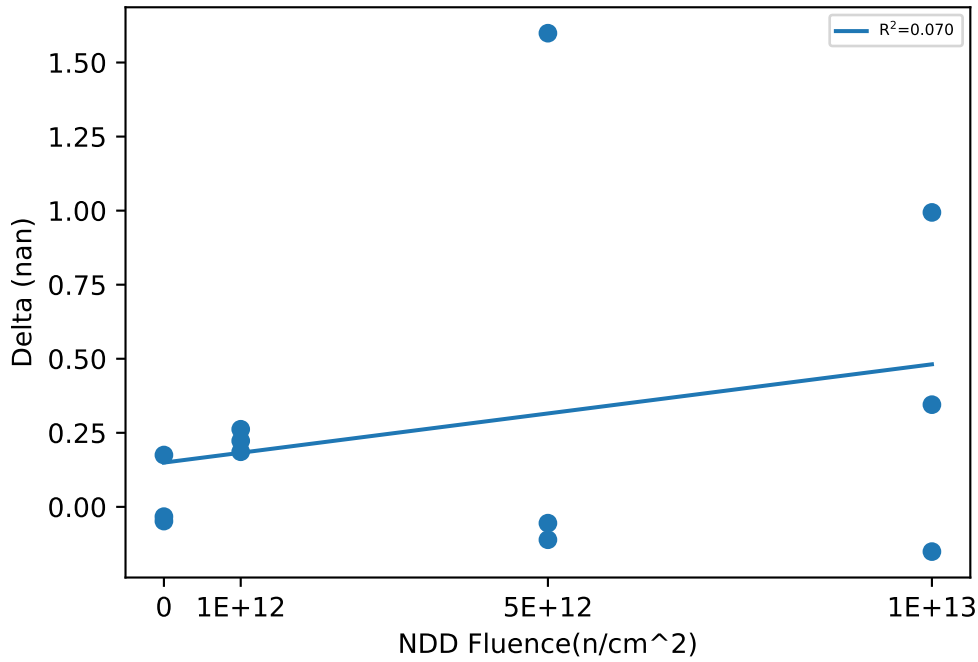
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.348	0.571	0.223
2	1e+12	NDD, unbiased	-2.784	-2.598	0.186
3	1e+12	NDD, unbiased	1.73	1.992	0.262
4	5e+12	NDD, unbiased	1.937	1.826	-0.111
5	5e+12	NDD, unbiased	5.217	5.162	-0.055
6	5e+12	NDD, unbiased	-1.003	0.596	1.599
7	1e+13	NDD, unbiased	3.866	4.211	0.345
8	1e+13	NDD, unbiased	0.197	1.191	0.994
9	1e+13	NDD, unbiased	1.478	1.327	-0.151
10	0	correlation	0.327	0.279	-0.048
11	0	correlation	-1.171	-1.204	-0.033
12	0	correlation	0.56	0.735	0.175

## NDD vs Post - Pre Exposure Delta

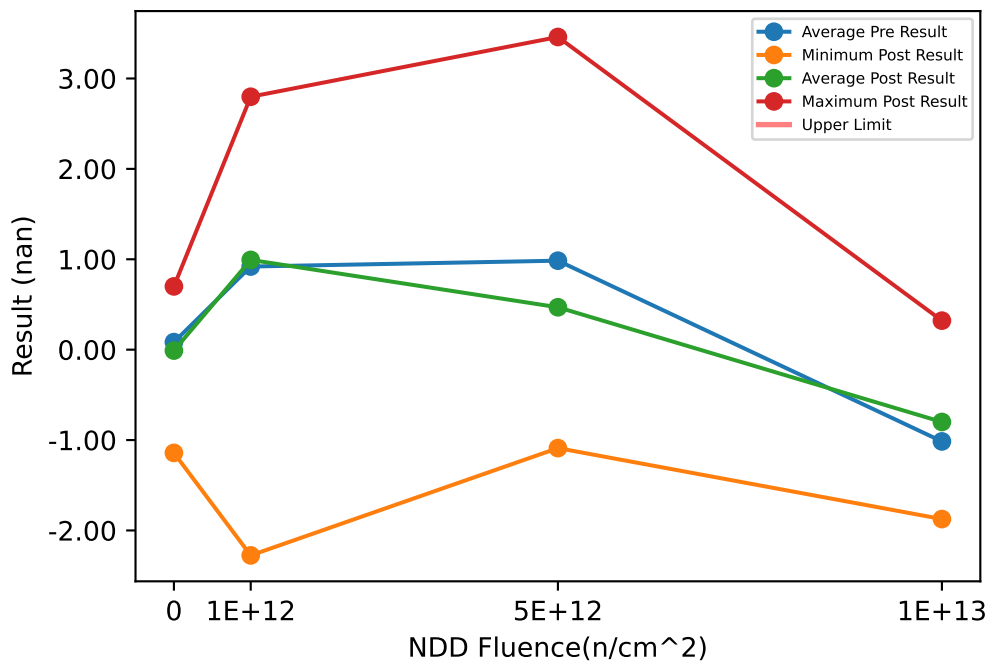


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.171	-0.094667	0.56	0.93938	-1.204	-0.063333	0.735	1.0138	-0.048	0.031333	0.175	0.12464
1e+12	-2.784	-0.23533	1.73	2.3128	-2.598	-0.011667	1.992	2.3498	0.186	0.22367	0.262	0.038004
5e+12	-1.003	2.0503	5.217	3.1115	0.596	2.528	5.162	2.3626	-0.111	0.47767	1.599	0.97151
1e+13	0.197	1.847	3.866	1.8621	1.191	2.243	4.211	1.7057	-0.151	0.396	0.994	0.5742

# Device Test: 11.12 UJ2PYL(Delta\_dCLR\_P5A\_CH2CH3\_UJ2PYL)

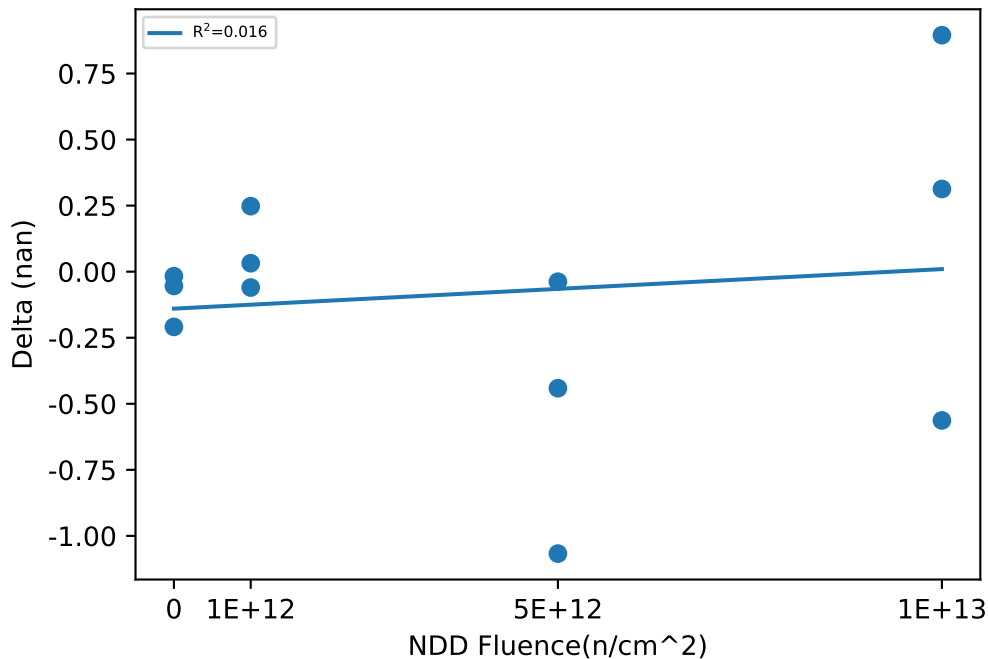
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-2.308	-2.276	0.032
2	1e+12	NDD, unbiased	2.517	2.457	-0.06
3	1e+12	NDD, unbiased	2.55	2.798	0.248
4	5e+12	NDD, unbiased	3.497	3.459	-0.038
5	5e+12	NDD, unbiased	-0.022	-1.089	-1.067
6	5e+12	NDD, unbiased	-0.522	-0.963	-0.441
7	1e+13	NDD, unbiased	-0.284	-0.847	-0.563
8	1e+13	NDD, unbiased	-2.769	-1.874	0.895
9	1e+13	NDD, unbiased	0.008	0.321	0.313
10	0	correlation	0.909	0.7	-0.209
11	0	correlation	0.466	0.412	-0.054
12	0	correlation	-1.125	-1.142	-0.017

## NDD vs Post - Pre Exposure Delta

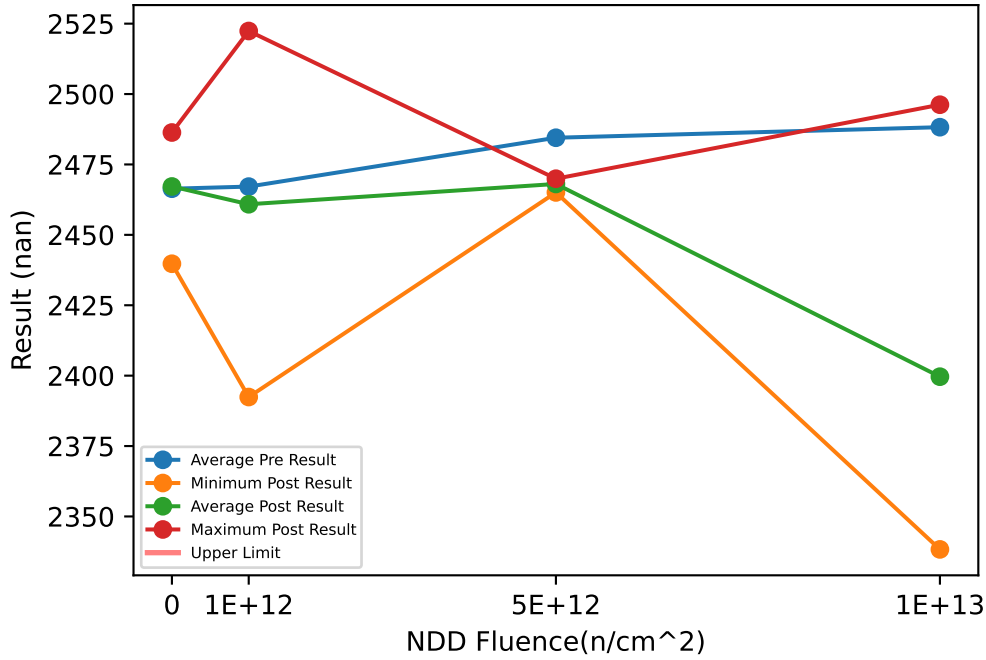


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.125	0.083333	0.909	1.0696	-1.142	-0.01	0.7	0.99086	-0.209	-0.093333	-0.017	0.10186
1e+12	-2.308	0.91967	2.55	2.7953	-2.276	0.993	2.798	2.8362	-0.06	0.073333	0.248	0.15811
5e+12	-0.522	0.98433	3.497	2.1903	-1.089	0.469	3.459	2.5902	-1.067	-0.51533	-0.038	0.51851
1e+13	-2.769	-1.015	0.008	1.526	-1.874	-0.8	0.321	1.0983	-0.563	0.215	0.895	0.73392

# Device Test: 11.15 UJET8J(KCL\_P25A\_CH1\_UJET8J)

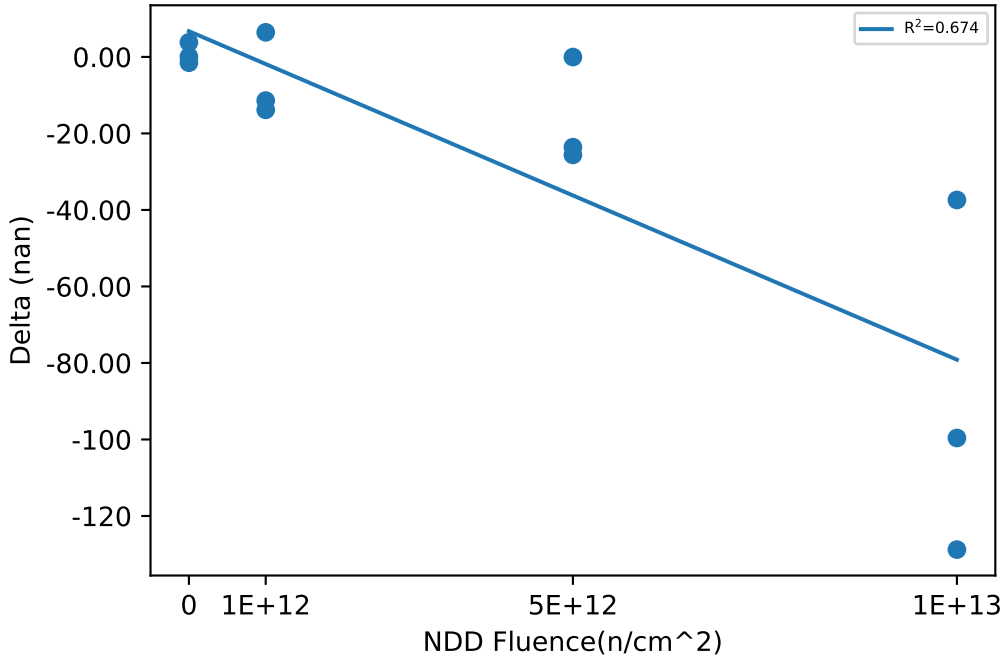
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2481.6	2467.8	-13.83
2	1e+12	NDD, unbiased	2403.8	2392.4	-11.408
3	1e+12	NDD, unbiased	2516	2522.4	6.425
4	5e+12	NDD, unbiased	2493.5	2469.9	-23.594
5	5e+12	NDD, unbiased	2494.8	2469.2	-25.614
6	5e+12	NDD, unbiased	2465.1	2465.1	-0.035
7	1e+13	NDD, unbiased	2595.8	2496.2	-99.613
8	1e+13	NDD, unbiased	2401.8	2364.4	-37.394
9	1e+13	NDD, unbiased	2467.1	2338.3	-128.79
10	0	correlation	2439.7	2439.7	0.081
11	0	correlation	2477	2475.4	-1.518
12	0	correlation	2482.5	2486.3	3.811

## NDD vs Post - Pre Exposure Delta

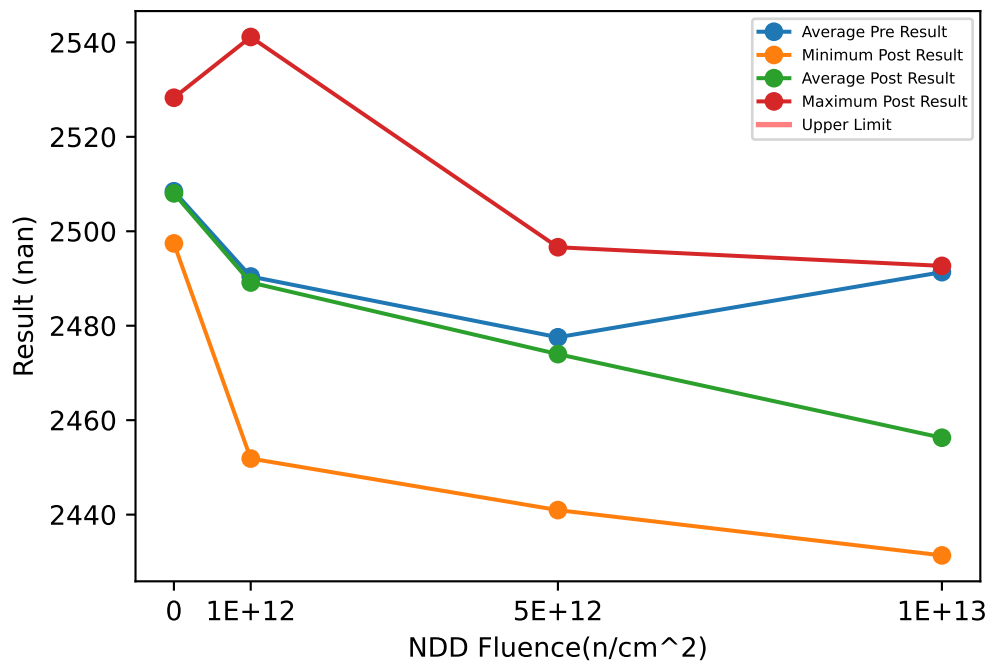


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2439.7	2466.4	2482.5	23.313	2439.7	2467.2	2486.3	24.378	-1.518	0.79133	3.811	2.7346
1e+12	2403.8	2467.1	2516	57.46	2392.4	2460.9	2522.4	65.267	-13.83	-6.271	6.425	11.062
5e+12	2465.1	2484.5	2494.8	16.803	2465.1	2468.1	2469.9	2.6304	-25.614	-16.414	-0.035	14.221
1e+13	2401.8	2488.2	2595.8	98.736	2338.3	2399.6	2496.2	84.652	-128.79	-88.598	-37.394	46.682

# Device Test: 11.16 UJET8J(KCL\_P5A\_CH1\_UJET8J)

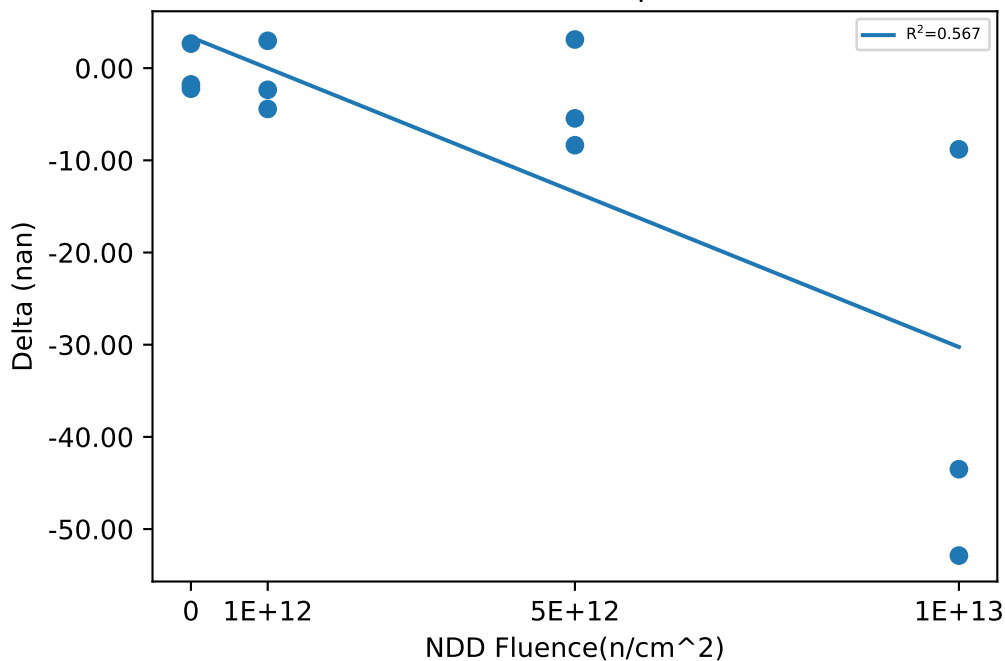
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2478.9	2474.4	-4.427
2	1e+12	NDD, unbiased	2454.2	2451.9	-2.349
3	1e+12	NDD, unbiased	2538.2	2541.1	2.965
4	5e+12	NDD, unbiased	2489.8	2484.4	-5.447
5	5e+12	NDD, unbiased	2505	2496.6	-8.36
6	5e+12	NDD, unbiased	2437.9	2441	3.107
7	1e+13	NDD, unbiased	2536.2	2492.7	-43.503
8	1e+13	NDD, unbiased	2453.6	2444.8	-8.808
9	1e+13	NDD, unbiased	2484.2	2431.4	-52.877
10	0	correlation	2530	2528.3	-1.764
11	0	correlation	2499.7	2497.4	-2.226
12	0	correlation	2495.7	2498.4	2.66

## NDD vs Post - Pre Exposure Delta

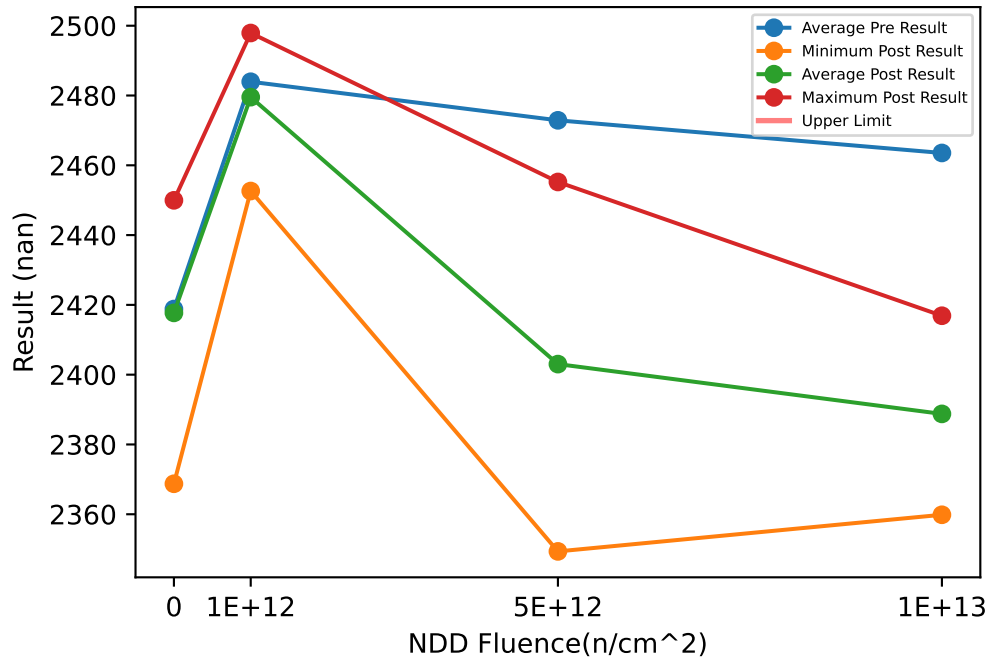


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2495.7	2508.5	2530	18.782	2497.4	2508	2528.3	17.541	-2.226	-0.44333	2.66	2.6975
1e+12	2454.2	2490.4	2538.2	43.152	2451.9	2489.2	2541.1	46.415	-4.427	-1.2703	2.965	3.8122
5e+12	2437.9	2477.6	2505	35.209	2441	2474	2496.6	29.252	-8.36	-3.5667	3.107	5.9603
1e+13	2453.6	2491.3	2536.2	41.735	2431.4	2456.3	2492.7	32.223	-52.877	-35.063	-8.808	23.215

# Device Test: 11.17 UJET8J(KCL\_P25A\_CH2\_UJET8J)

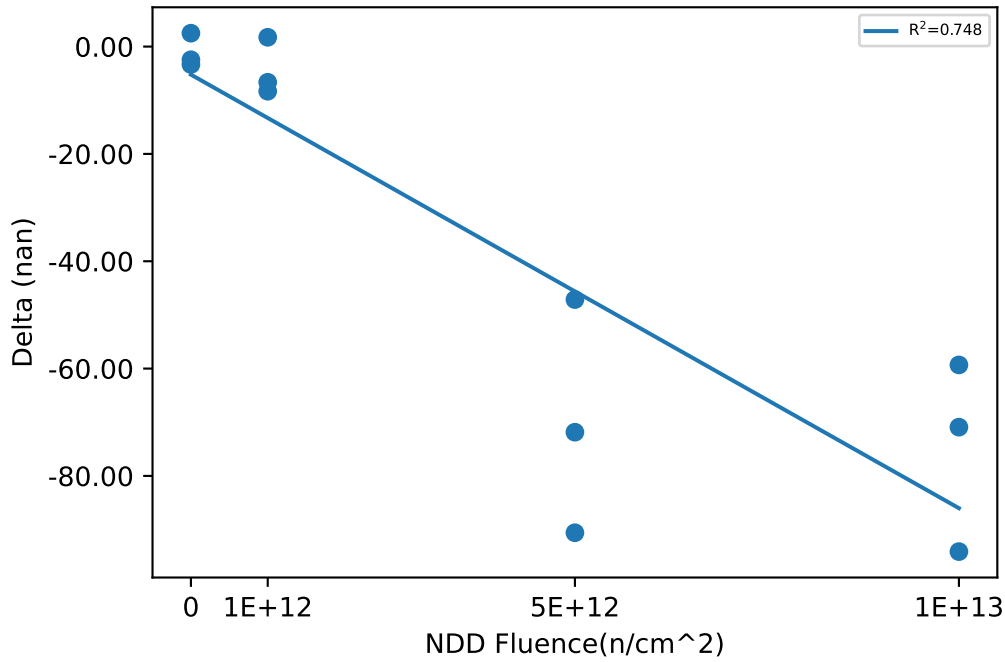
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2450.9	2452.6	1.733
2	1e+12	NDD, unbiased	2506.2	2497.9	-8.317
3	1e+12	NDD, unbiased	2494.7	2488.1	-6.652
4	5e+12	NDD, unbiased	2527.1	2455.2	-71.856
5	5e+12	NDD, unbiased	2439.9	2349.4	-90.59
6	5e+12	NDD, unbiased	2451.6	2404.5	-47.141
7	1e+13	NDD, unbiased	2511	2416.9	-94.103
8	1e+13	NDD, unbiased	2419.2	2359.8	-59.321
9	1e+13	NDD, unbiased	2460.5	2389.5	-70.915
10	0	correlation	2453.3	2450	-3.335
11	0	correlation	2436.9	2434.4	-2.458
12	0	correlation	2366.2	2368.7	2.494

## NDD vs Post - Pre Exposure Delta

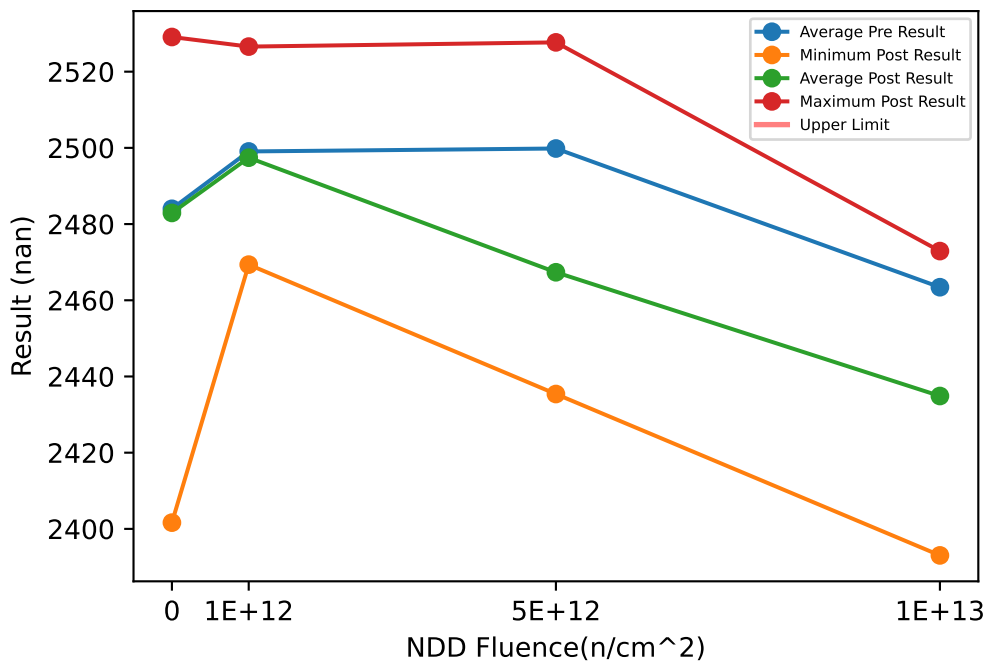


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2366.2	2418.8	2453.3	46.256	2368.7	2417.7	2450	43.116	-3.335	-1.0997	2.494	3.1429
1e+12	2450.9	2483.9	2506.2	29.195	2452.6	2479.5	2497.9	23.815	-8.317	-4.412	1.733	5.3864
5e+12	2439.9	2472.9	2527.1	47.292	2349.4	2403	2455.2	52.949	-90.59	-69.862	-47.141	21.793
1e+13	2419.2	2463.5	2511	45.989	2359.8	2388.8	2416.9	28.529	-94.103	-74.78	-59.321	17.71

# Device Test: 11.18 UJET8J(KCL\_P5A\_CH2\_UJET8J)

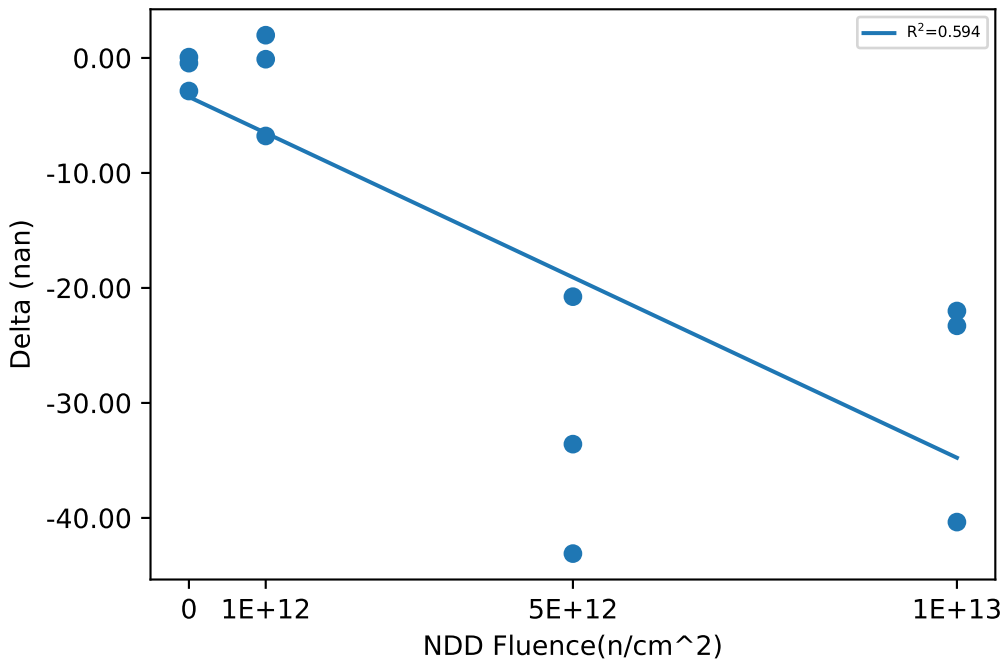
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2469.5	2469.4	-0.109
2	1e+12	NDD, unbiased	2503.1	2496.3	-6.785
3	1e+12	NDD, unbiased	2524.6	2526.6	1.979
4	5e+12	NDD, unbiased	2561.3	2527.7	-33.584
5	5e+12	NDD, unbiased	2482.1	2439	-43.102
6	5e+12	NDD, unbiased	2456.2	2435.4	-20.759
7	1e+13	NDD, unbiased	2513.3	2472.9	-40.362
8	1e+13	NDD, unbiased	2416.3	2393	-23.294
9	1e+13	NDD, unbiased	2460.7	2438.7	-22.006
10	0	correlation	2532	2529.1	-2.876
11	0	correlation	2518.5	2518	-0.452
12	0	correlation	2401.6	2401.6	0.072

## NDD vs Post - Pre Exposure Delta



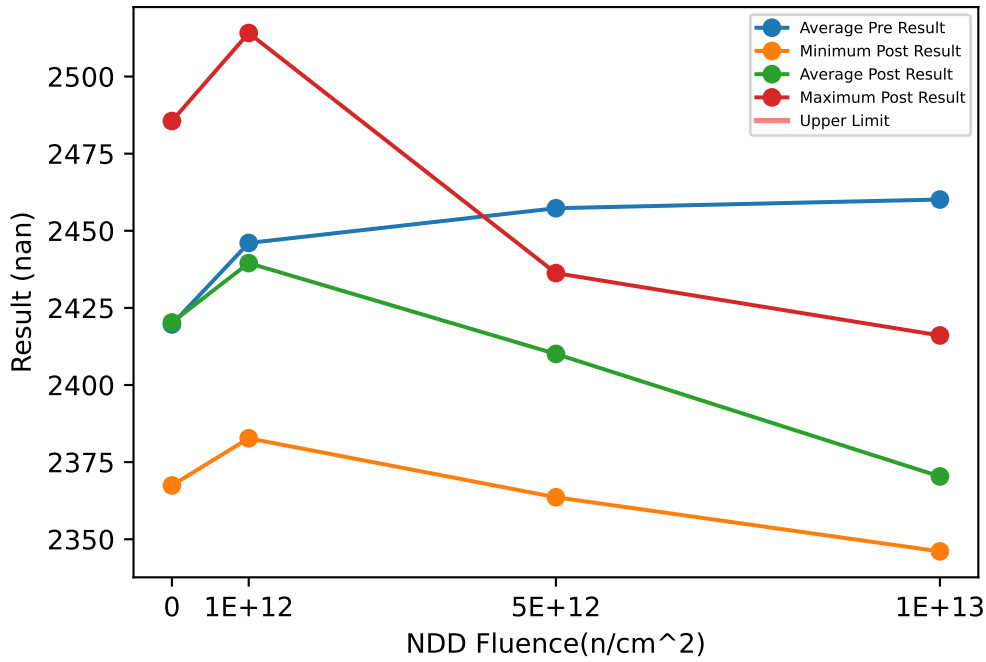
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2401.6	2484	2532	71.712	2401.6	2482.9	2529.1	70.609	-2.876	-1.0853	0.072	1.5727
1e+12	2469.5	2499.1	2524.6	27.791	2469.4	2497.4	2526.6	28.628	-6.785	-1.6383	1.979	4.5778
5e+12	2456.2	2499.8	2561.3	54.765	2435.4	2467.3	2527.7	52.286	-43.102	-32.482	-20.759	11.212
1e+13	2416.3	2463.4	2513.3	48.527	2393	2434.9	2472.9	40.07	-40.362	-28.554	-22.006	10.246



# Device Test: 11.19 UJET8J(KCL\_P25A\_CH3\_UJET8J)

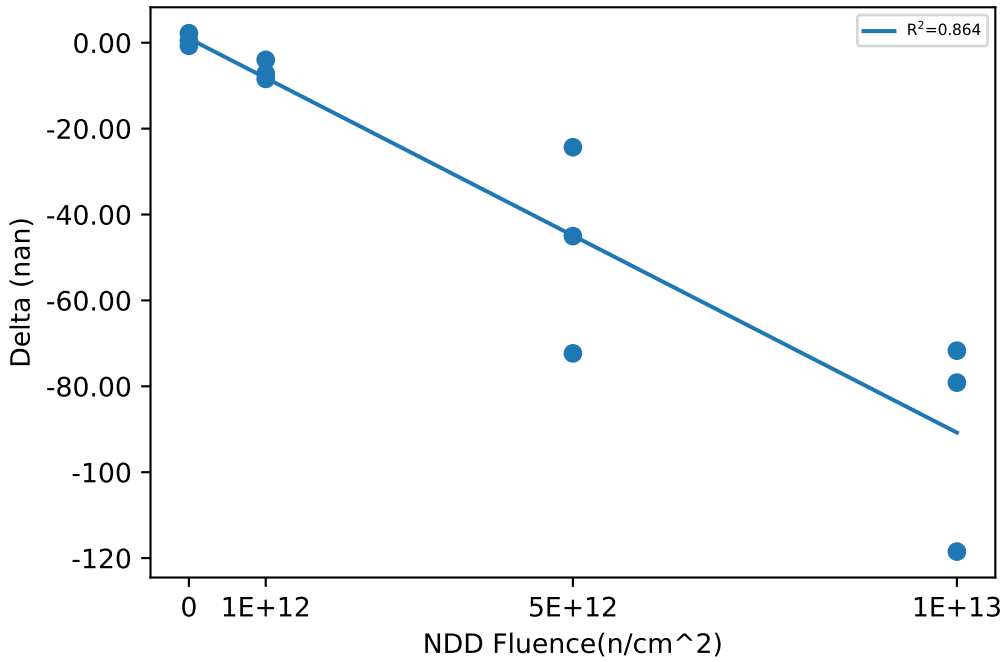
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2521.3	2514.1	-7.163
2	1e+12	NDD, unbiased	2386.7	2382.7	-3.988
3	1e+12	NDD, unbiased	2430.2	2421.7	-8.423
4	5e+12	NDD, unbiased	2435.9	2363.6	-72.331
5	5e+12	NDD, unbiased	2481.3	2436.3	-45.029
6	5e+12	NDD, unbiased	2454.7	2430.4	-24.332
7	1e+13	NDD, unbiased	2487.8	2416.1	-71.696
8	1e+13	NDD, unbiased	2464.5	2346.1	-118.49
9	1e+13	NDD, unbiased	2428.1	2348.9	-79.142
10	0	correlation	2483.4	2485.6	2.219
11	0	correlation	2408.6	2407.8	-0.731
12	0	correlation	2367	2367.4	0.458

## NDD vs Post - Pre Exposure Delta

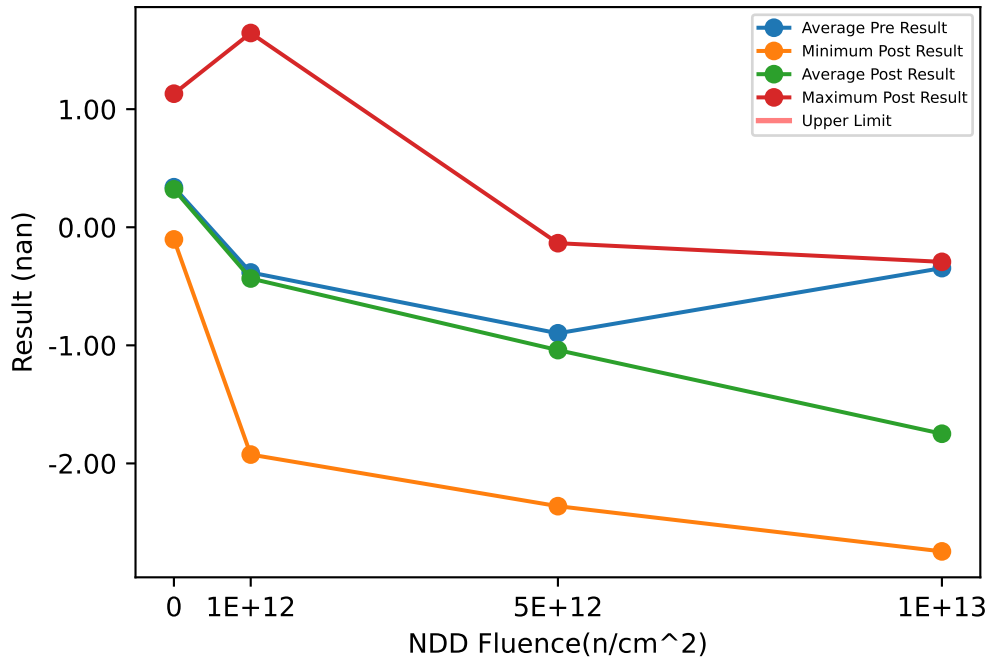


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2367	2419.6	2483.4	58.972	2367.4	2420.3	2485.6	60.044	-0.731	0.64867	2.219	1.4842
1e+12	2386.7	2446.1	2521.3	68.677	2382.7	2439.5	2514.1	67.478	-8.423	-6.5247	-3.988	2.2854
5e+12	2435.9	2457.3	2481.3	22.793	2363.6	2410.1	2436.3	40.351	-72.331	-47.231	-24.332	24.075
1e+13	2428.1	2460.1	2487.8	30.083	2346.1	2370.4	2416.1	39.611	-118.49	-89.775	-71.696	25.142

# Device Test: 11.2 UJSYNT(dCLR\_P5A\_CH1\_UJSYNT)

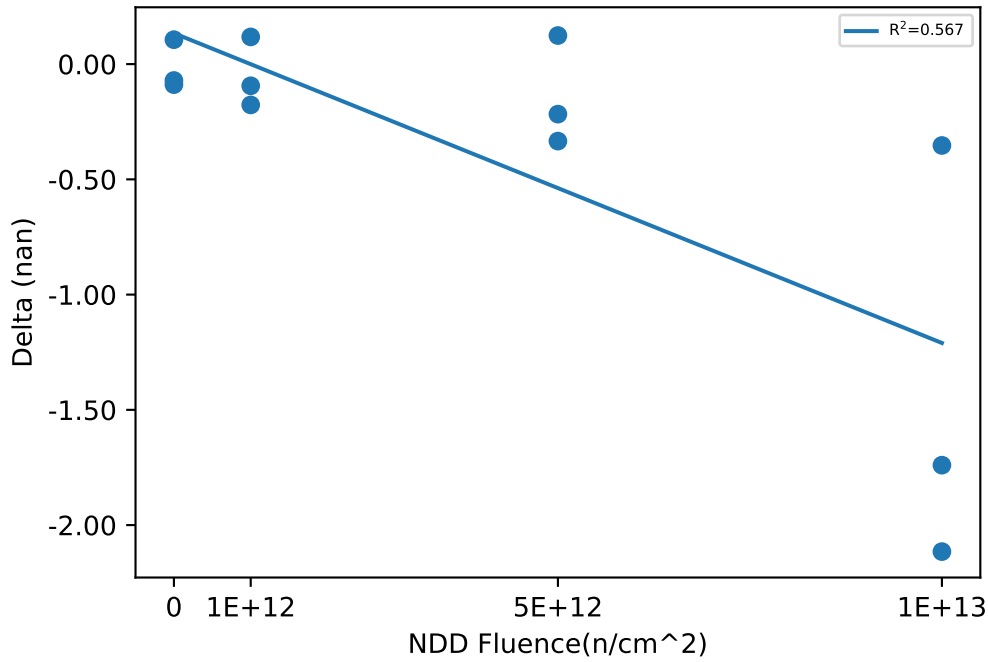
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.845	-1.022	-0.177
2	1e+12	NDD, unbiased	-1.831	-1.925	-0.094
3	1e+12	NDD, unbiased	1.527	1.645	0.118
4	5e+12	NDD, unbiased	-0.407	-0.624	-0.217
5	5e+12	NDD, unbiased	0.199	-0.135	-0.334
6	5e+12	NDD, unbiased	-2.486	-2.362	0.124
7	1e+13	NDD, unbiased	1.447	-0.293	-1.74
8	1e+13	NDD, unbiased	-1.855	-2.208	-0.353
9	1e+13	NDD, unbiased	-0.63	-2.745	-2.115
10	0	correlation	1.202	1.131	-0.071
11	0	correlation	-0.014	-0.103	-0.089
12	0	correlation	-0.171	-0.065	0.106

## NDD vs Post - Pre Exposure Delta

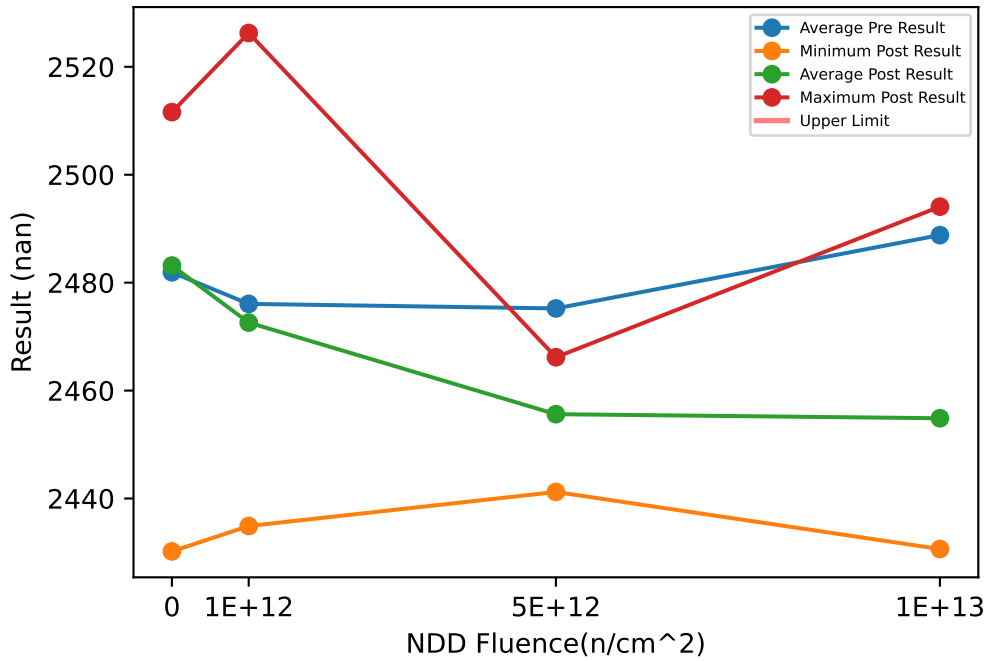


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.171	0.339	1.202	0.75149	-0.103	0.321	1.131	0.70174	-0.089	-0.018	0.106	0.10776
1e+12	-1.831	-0.383	1.527	1.726	-1.925	-0.434	1.645	1.8562	-0.177	-0.051	0.118	0.15213
5e+12	-2.486	-0.898	0.199	1.4082	-2.362	-1.0403	-0.135	1.1704	-0.334	-0.14233	0.124	0.23795
1e+13	-1.855	-0.346	1.447	1.6692	-2.745	-1.7487	-0.293	1.2889	-2.115	-1.4027	-0.353	0.92817

# Device Test: 11.20 UJET8J(KCL\_P5A\_CH3\_UJET8J)

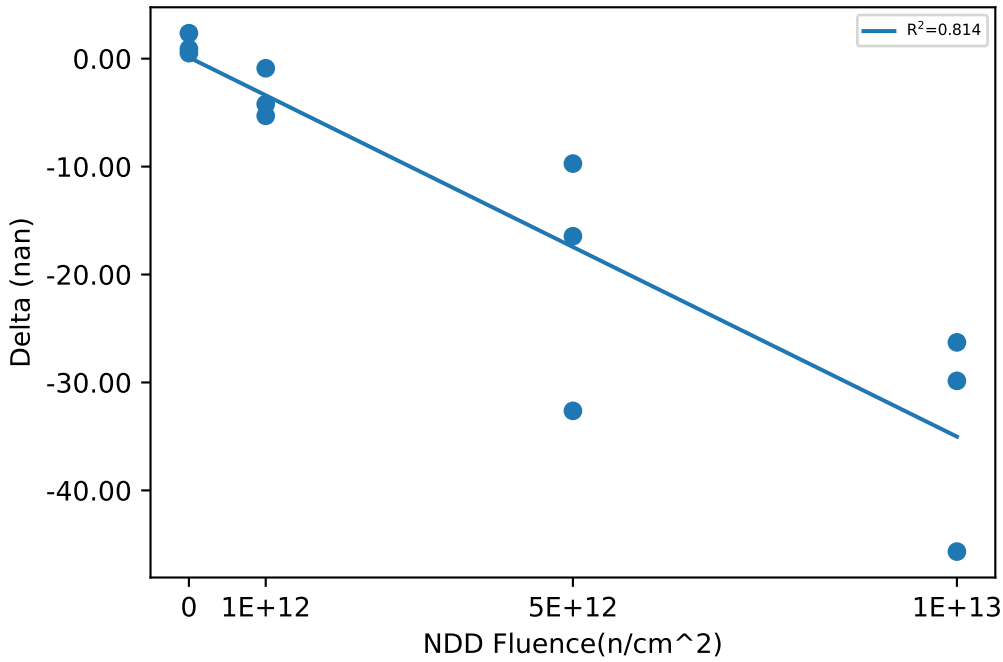
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2527.2	2526.3	-0.89
2	1e+12	NDD, unbiased	2440.2	2434.9	-5.298
3	1e+12	NDD, unbiased	2460.8	2456.6	-4.213
4	5e+12	NDD, unbiased	2473.8	2441.2	-32.632
5	5e+12	NDD, unbiased	2482.6	2466.2	-16.448
6	5e+12	NDD, unbiased	2469.2	2459.5	-9.722
7	1e+13	NDD, unbiased	2520.4	2494.1	-26.285
8	1e+13	NDD, unbiased	2485.6	2439.9	-45.67
9	1e+13	NDD, unbiased	2460.5	2430.6	-29.852
10	0	correlation	2509.2	2511.6	2.358
11	0	correlation	2506.8	2507.7	0.903
12	0	correlation	2429.7	2430.2	0.512

## NDD vs Post - Pre Exposure Delta

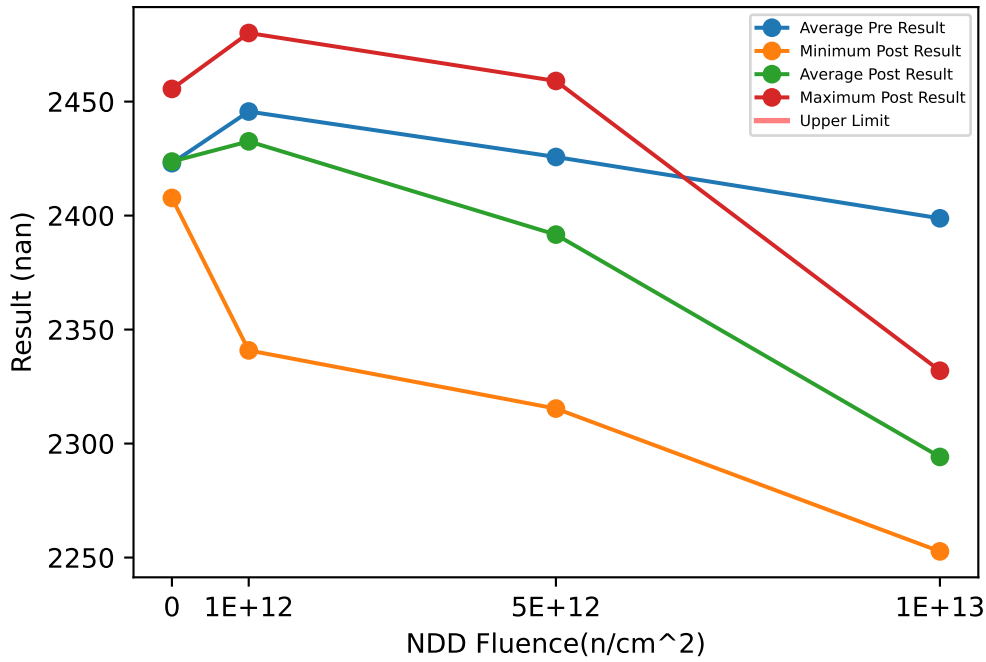


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2429.7	2481.9	2509.2	45.251	2430.2	2483.2	2511.6	45.922	0.512	1.2577	2.358	0.97276
1e+12	2440.2	2476.1	2527.2	45.433	2434.9	2472.6	2526.3	47.73	-5.298	-3.467	-0.89	2.2967
5e+12	2469.2	2475.2	2482.6	6.818	2441.2	2455.6	2466.2	12.924	-32.632	-19.601	-9.722	11.776
1e+13	2460.5	2488.8	2520.4	30.073	2430.6	2454.9	2494.1	34.274	-45.67	-33.936	-26.285	10.318

# Device Test: 11.21 UJET8J(KCL\_P25A\_CH4\_UJET8J)

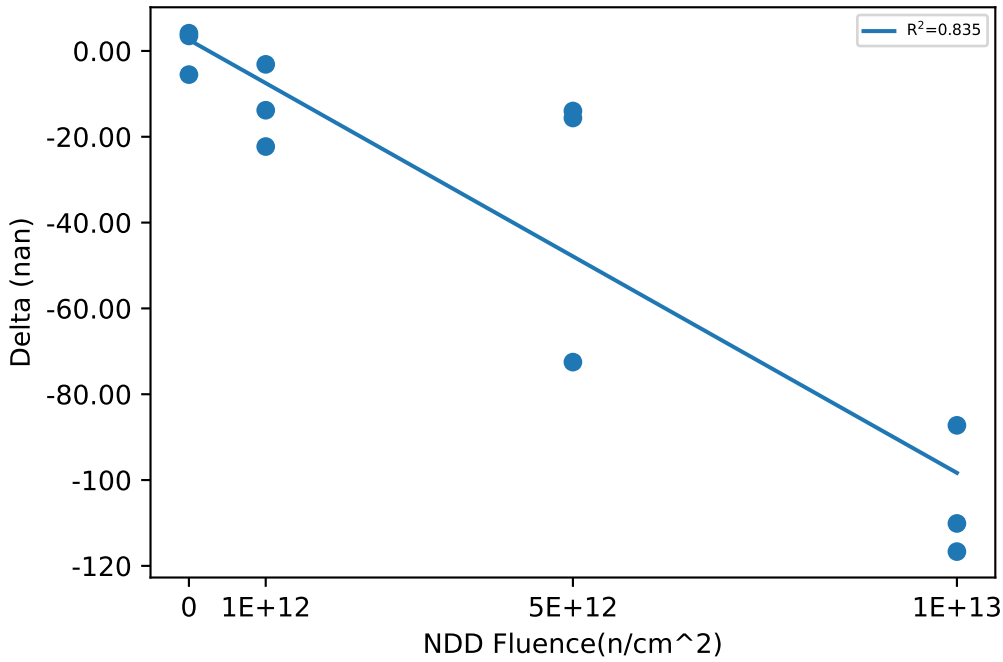
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2363.2	2340.9	-22.28
2	1e+12	NDD, unbiased	2493.9	2480.1	-13.817
3	1e+12	NDD, unbiased	2479.9	2476.7	-3.126
4	5e+12	NDD, unbiased	2473	2459.1	-13.994
5	5e+12	NDD, unbiased	2331	2315.4	-15.625
6	5e+12	NDD, unbiased	2473.1	2400.6	-72.513
7	1e+13	NDD, unbiased	2414.4	2297.7	-116.67
8	1e+13	NDD, unbiased	2419.2	2332	-87.251
9	1e+13	NDD, unbiased	2362.8	2252.7	-110.11
10	0	correlation	2403.6	2407.7	4.137
11	0	correlation	2452.1	2455.6	3.5
12	0	correlation	2413.3	2407.8	-5.514

## NDD vs Post - Pre Exposure Delta

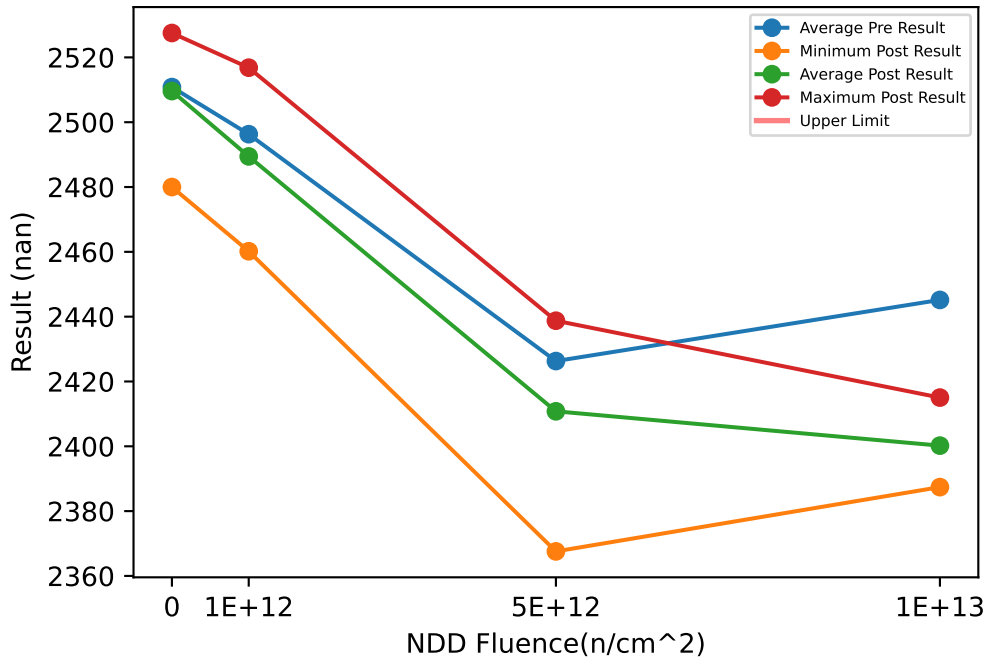


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2403.6	2423	2452.1	25.629	2407.7	2423.7	2455.6	27.581	-5.514	0.70767	4.137	5.3975
1e+12	2363.2	2445.6	2493.9	71.779	2340.9	2432.6	2480.1	79.425	-22.28	-13.074	-3.126	9.5986
5e+12	2331	2425.7	2473.1	82.03	2315.4	2391.7	2459.1	72.26	-72.513	-34.044	-13.994	33.325
1e+13	2362.8	2398.8	2419.2	31.262	2252.7	2294.1	2332	39.749	-116.67	-104.68	-87.251	15.445

# Device Test: 11.22 UJET8J(KCL\_P5A\_CH4\_UJET8J)

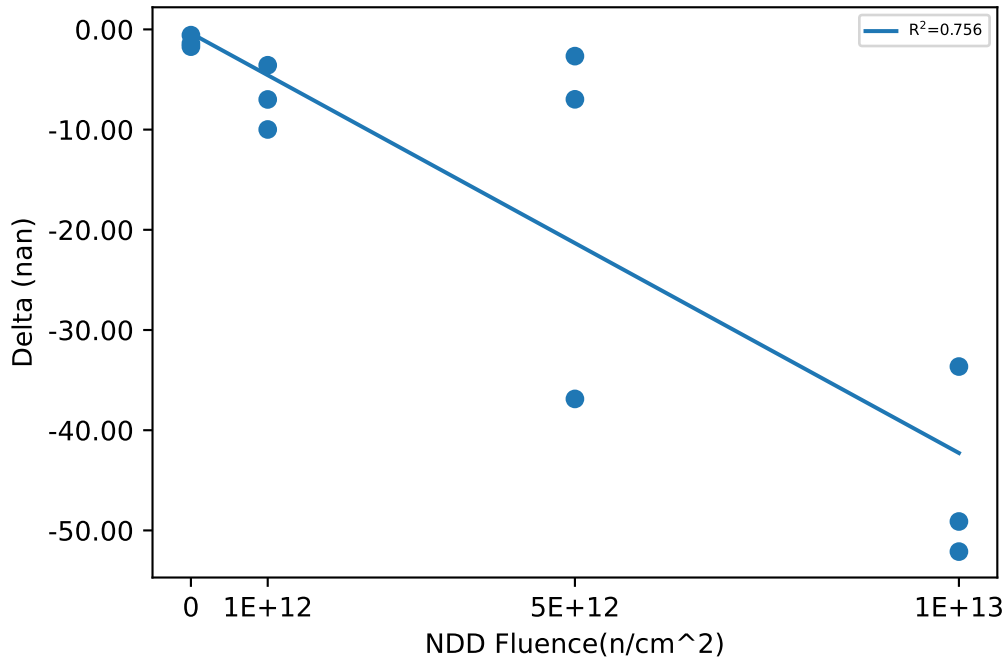
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2470.2	2460.2	-9.987
2	1e+12	NDD, unbiased	2523.8	2516.8	-6.991
3	1e+12	NDD, unbiased	2494.9	2491.3	-3.578
4	5e+12	NDD, unbiased	2441.4	2438.7	-2.668
5	5e+12	NDD, unbiased	2374.5	2367.6	-6.977
6	5e+12	NDD, unbiased	2462.9	2426.1	-36.876
7	1e+13	NDD, unbiased	2439.5	2387.4	-52.113
8	1e+13	NDD, unbiased	2448.7	2415.0	-33.646
9	1e+13	NDD, unbiased	2447.3	2398.2	-49.108
10	0	correlation	2521.9	2521.3	-0.574
11	0	correlation	2528.9	2527.5	-1.405
12	0	correlation	2481.7	2480.0	-1.722

## NDD vs Post - Pre Exposure Delta

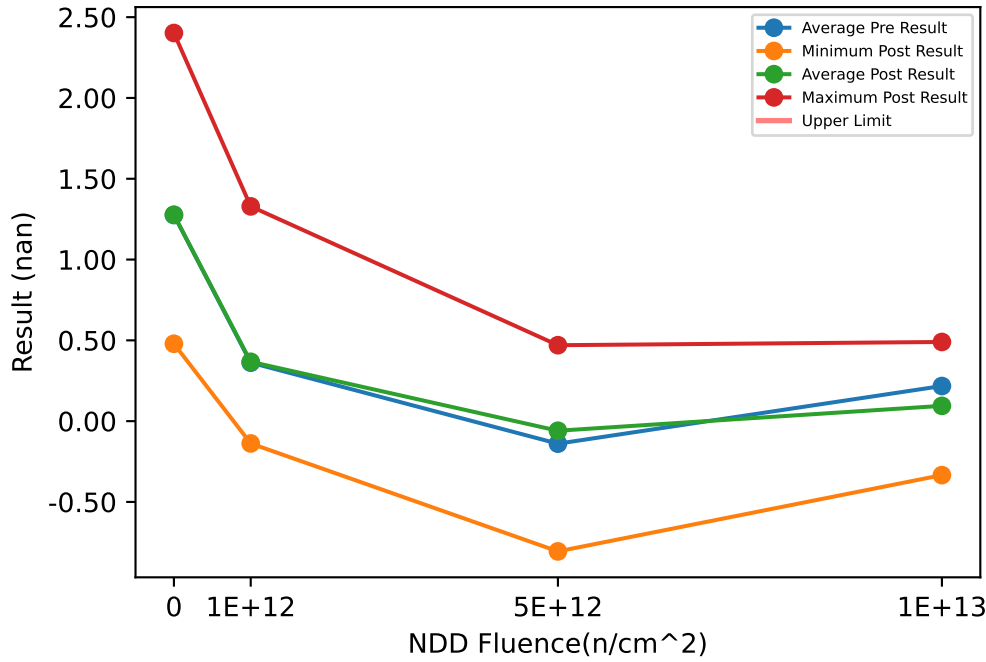


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2481.7	2510.8	2528.9	25.466	2480	2509.6	2527.5	25.832	-1.722	-1.2337	-0.574	0.59287
1e+12	2470.2	2496.3	2523.8	26.849	2460.2	2489.4	2516.8	28.368	-9.987	-6.852	-3.578	3.2068
5e+12	2374.5	2426.3	2462.9	46.093	2367.6	2410.8	2438.7	37.966	-36.876	-15.507	-2.668	18.631
1e+13	2439.5	2445.2	2448.7	4.9387	2387.4	2400.2	2415.0	13.924	-52.113	-44.956	-33.646	9.909

# Device Test: 11.23 UJP0M9(dCLR\_2A\_CH1\_UJP0M9)

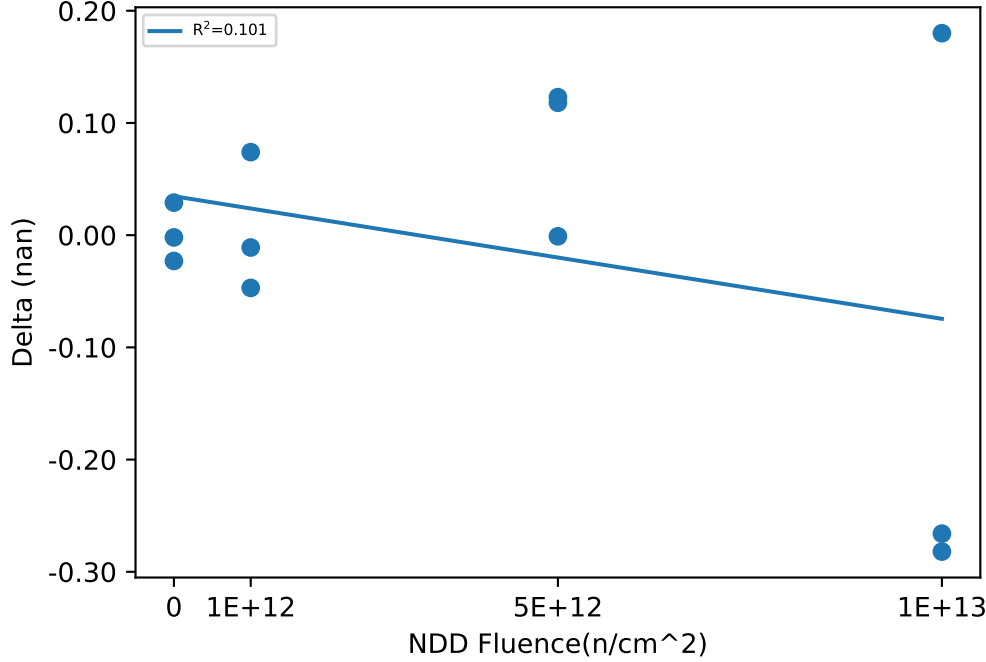
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.091	-0.138	-0.047
2	1e+12	NDD, unbiased	-0.078	-0.089	-0.011
3	1e+12	NDD, unbiased	1.255	1.329	0.074
4	5e+12	NDD, unbiased	0.159	0.158	-0.001
5	5e+12	NDD, unbiased	0.347	0.47	0.123
6	5e+12	NDD, unbiased	-0.924	-0.806	0.118
7	1e+13	NDD, unbiased	-0.052	-0.334	-0.282
8	1e+13	NDD, unbiased	0.31	0.49	0.18
9	1e+13	NDD, unbiased	0.394	0.128	-0.266
10	0	correlation	2.404	2.402	-0.002
11	0	correlation	0.45	0.479	0.029
12	0	correlation	0.973	0.95	-0.023

## NDD vs Post - Pre Exposure Delta

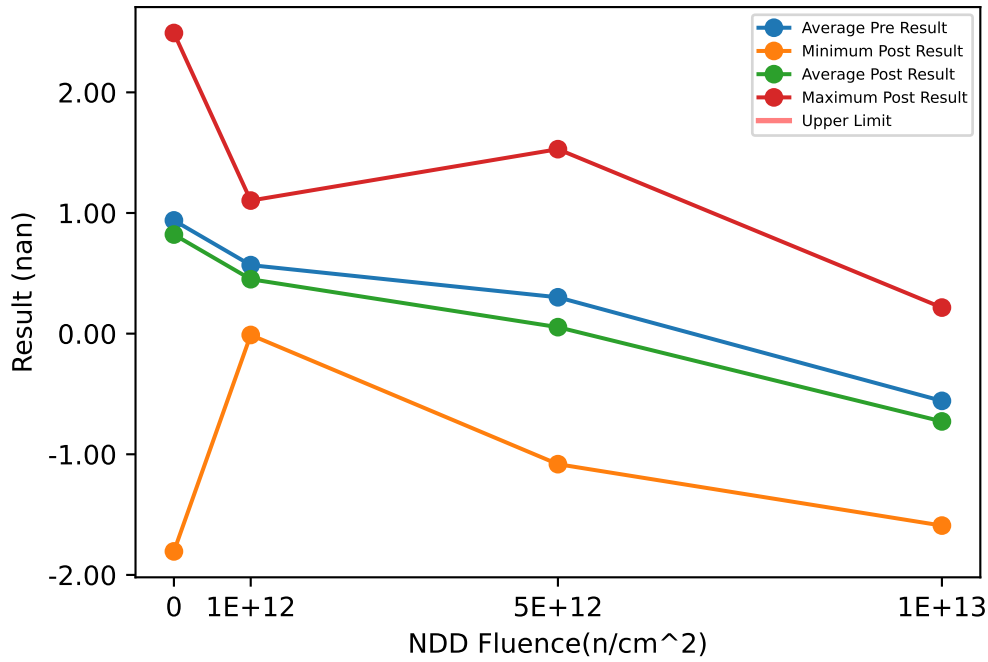


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.45	1.2757	2.404	1.0116	0.479	1.277	2.402	1.0023	-0.023	0.0013333	0.029	0.02616
1e+12	-0.091	0.362	1.255	0.77339	-0.138	0.36733	1.329	0.83319	-0.047	0.0053333	0.074	0.062132
5e+12	-0.924	-0.13933	0.347	0.68601	-0.806	-0.059333	0.47	0.66518	-0.001	0.08	0.123	0.070193
1e+13	-0.052	0.21733	0.394	0.237	-0.334	0.094667	0.49	0.41301	-0.282	-0.12267	0.18	0.26224

# Device Test: 11.24 UJP0M9(dCLR\_2A\_CH2\_UJP0M9)

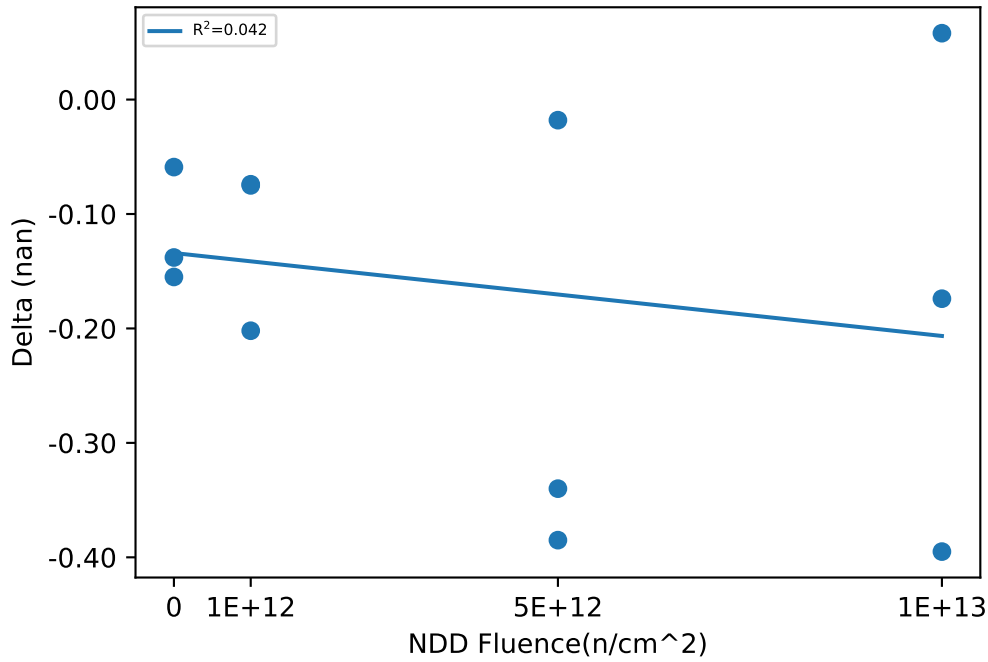
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.063	-0.011	-0.074
2	1e+12	NDD, unbiased	0.463	0.261	-0.202
3	1e+12	NDD, unbiased	1.178	1.103	-0.075
4	5e+12	NDD, unbiased	1.869	1.529	-0.34
5	5e+12	NDD, unbiased	0.099	-0.286	-0.385
6	5e+12	NDD, unbiased	-1.064	-1.082	-0.018
7	1e+13	NDD, unbiased	0.611	0.216	-0.395
8	1e+13	NDD, unbiased	-1.417	-1.591	-0.174
9	1e+13	NDD, unbiased	-0.866	-0.808	0.058
10	0	correlation	2.63	2.492	-0.138
11	0	correlation	1.932	1.777	-0.155
12	0	correlation	-1.746	-1.805	-0.059

## NDD vs Post - Pre Exposure Delta

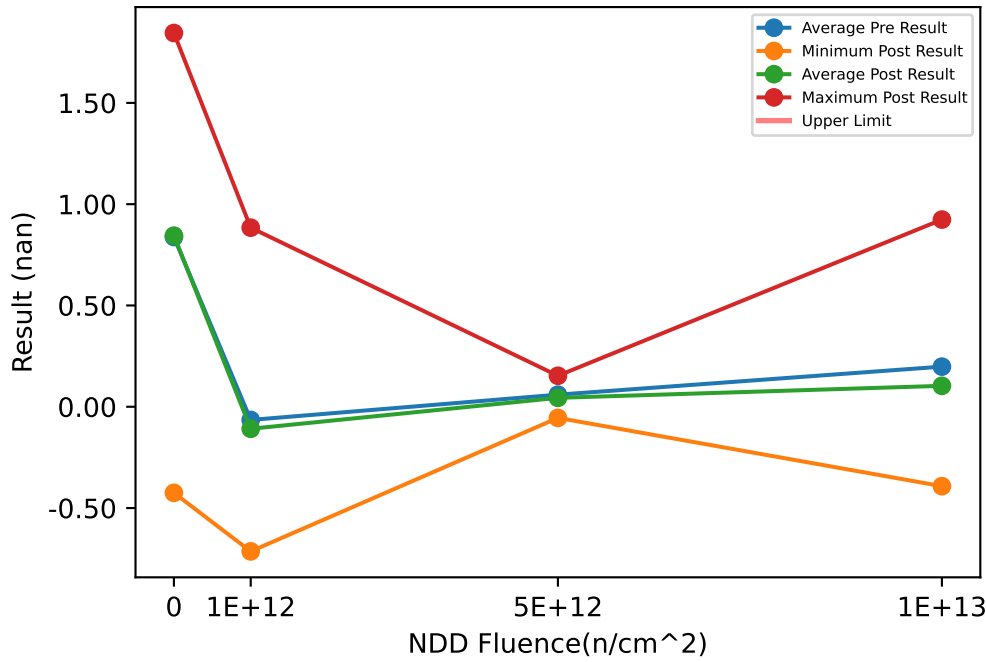


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.746	0.93867	2.63	2.351	-1.805	0.82133	2.492	2.3024	-0.155	-0.11733	-0.059	0.051228
1e+12	0.063	0.568	1.178	0.56487	-0.011	0.451	1.103	0.5808	-0.202	-0.117	-0.074	0.073614
5e+12	-1.064	0.30133	1.869	1.4769	-1.082	0.053667	1.529	1.3382	-0.385	-0.24767	-0.018	0.20017
1e+13	-1.417	-0.55733	0.611	1.0486	-1.591	-0.72767	0.216	0.90617	-0.395	-0.17033	0.058	0.22652

# Device Test: 11.25 UJPOM9(dCLR\_2A\_CH3\_UJPOM9)

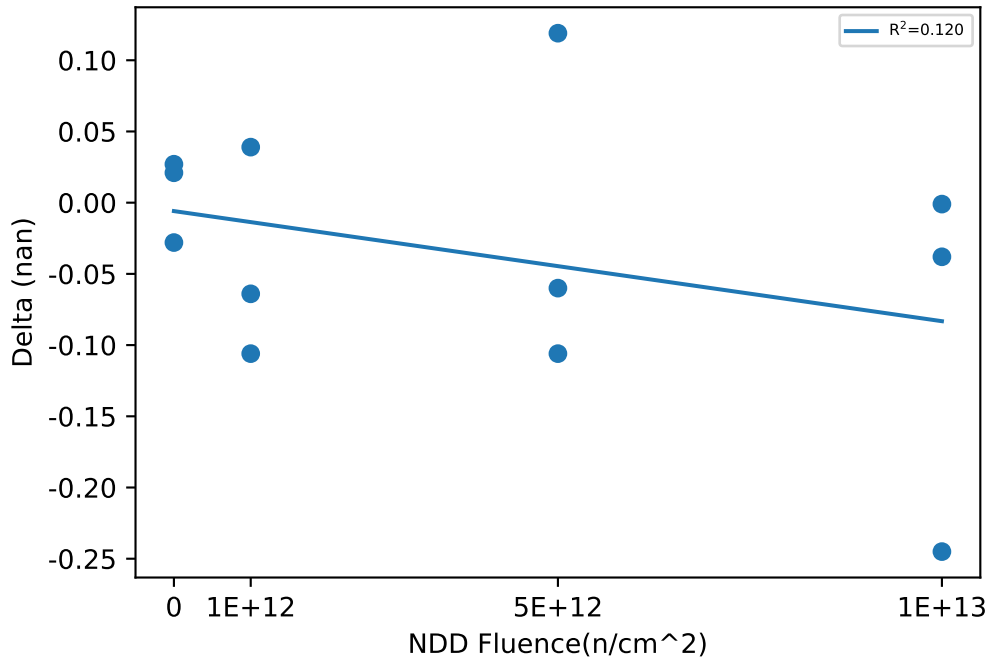
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.845	0.884	0.039
2	1e+12	NDD, unbiased	-0.39	-0.496	-0.106
3	1e+12	NDD, unbiased	-0.65	-0.714	-0.064
4	5e+12	NDD, unbiased	0.213	0.153	-0.06
5	5e+12	NDD, unbiased	0.051	-0.055	-0.106
6	5e+12	NDD, unbiased	-0.085	0.034	0.119
7	1e+13	NDD, unbiased	0.925	0.924	-0.001
8	1e+13	NDD, unbiased	0.023	-0.222	-0.245
9	1e+13	NDD, unbiased	-0.354	-0.392	-0.038
10	0	correlation	1.087	1.114	0.027
11	0	correlation	1.873	1.845	-0.028
12	0	correlation	-0.446	-0.425	0.021

## NDD vs Post - Pre Exposure Delta



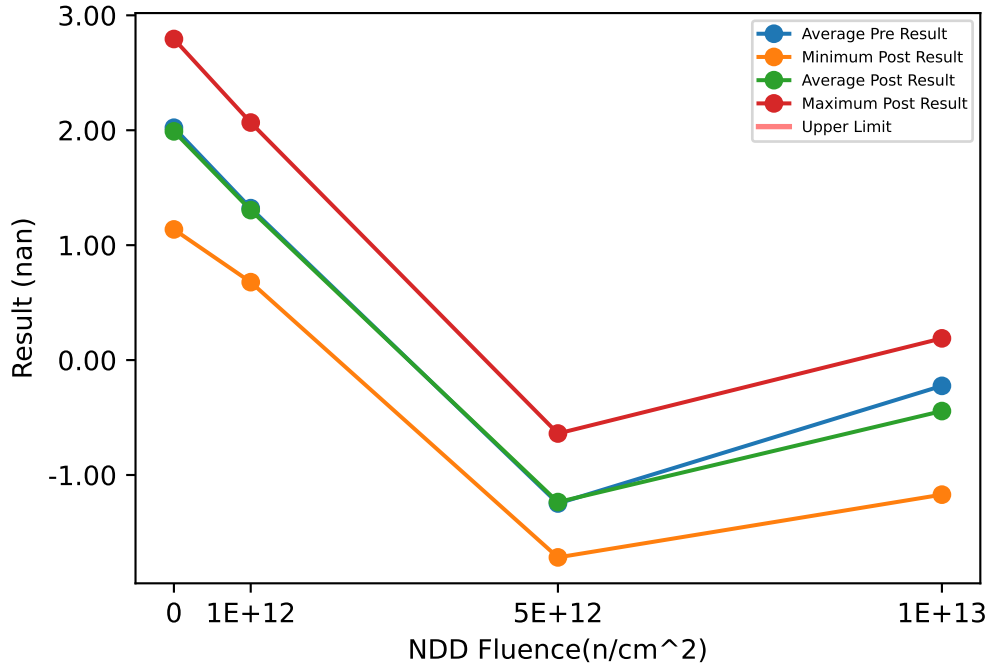
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.446	0.838	1.873	1.1794	-0.425	0.84467	1.845	1.1587	-0.028	0.0066667	0.027	0.030172
1e+12	-0.65	-0.065	0.845	0.79873	-0.714	-0.10867	0.884	0.86656	-0.106	-0.043667	0.039	0.074608
5e+12	-0.085	0.059667	0.213	0.14919	-0.055	0.044	0.153	0.10436	-0.106	-0.015667	0.119	0.11887
1e+13	-0.354	0.198	0.925	0.65721	-0.392	0.10333	0.924	0.71578	-0.245	-0.094667	-0.001	0.1315



# Device Test: 11.26 UJP0M9(dCLR\_2A\_CH4\_UJP0M9)

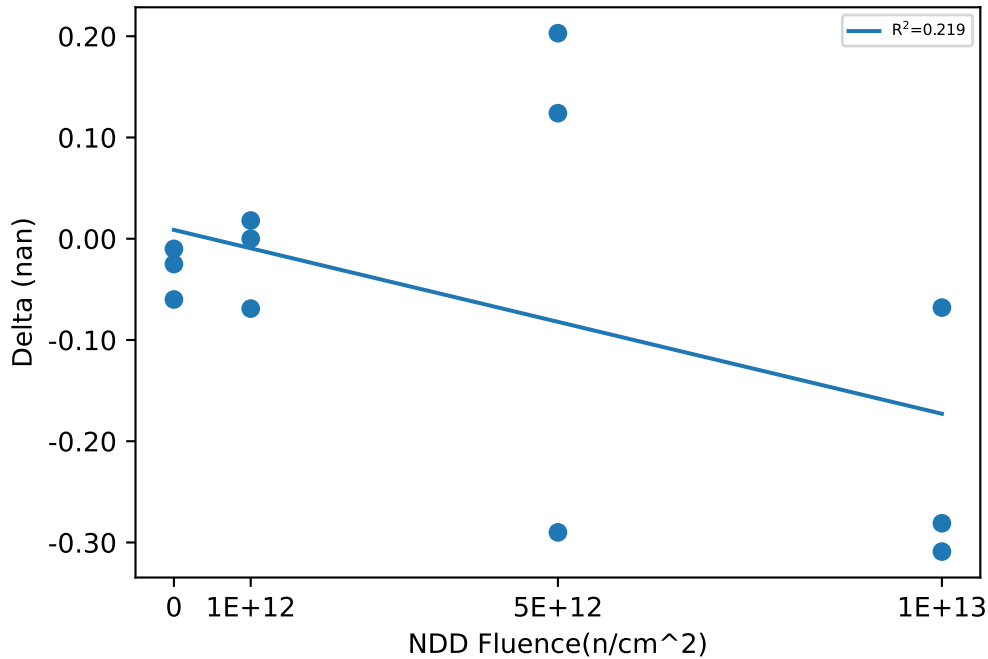
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.152	1.17	0.018
2	1e+12	NDD, unbiased	2.136	2.067	-0.069
3	1e+12	NDD, unbiased	0.678	0.678	0
4	5e+12	NDD, unbiased	-1.475	-1.351	0.124
5	5e+12	NDD, unbiased	-1.92	-1.717	0.203
6	5e+12	NDD, unbiased	-0.349	-0.639	-0.29
7	1e+13	NDD, unbiased	-0.89	-1.171	-0.281
8	1e+13	NDD, unbiased	-0.281	-0.349	-0.068
9	1e+13	NDD, unbiased	0.498	0.189	-0.309
10	0	correlation	2.804	2.794	-0.01
11	0	correlation	2.065	2.04	-0.025
12	0	correlation	1.197	1.137	-0.06

## NDD vs Post - Pre Exposure Delta

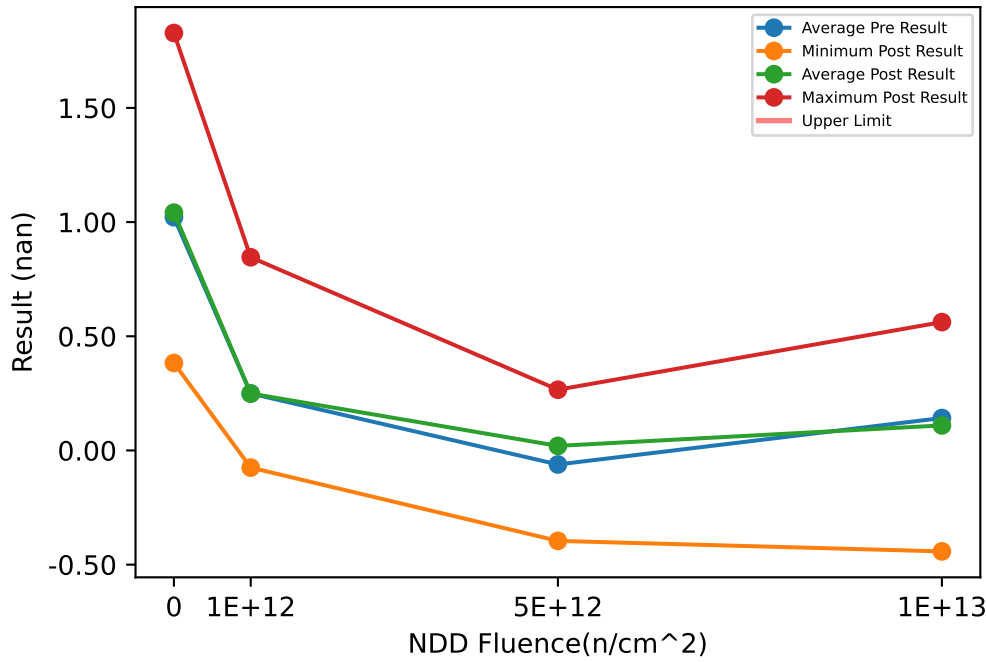


## Test Statistics (nan)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.197	2.022	2.804	0.80436	1.137	1.9903	2.794	0.82962	-0.06	-0.031667	-0.01	0.025658
1e+12	0.678	1.322	2.136	0.74372	0.678	1.305	2.067	0.70427	-0.069	-0.017	0.018	0.045924
5e+12	-1.92	-1.248	-0.349	0.80973	-1.717	-1.2357	-0.639	0.54818	-0.29	0.012333	0.203	0.26479
1e+13	-0.89	-0.22433	0.498	0.69573	-1.171	-0.44367	0.189	0.68492	-0.309	-0.21933	-0.068	0.1318

# Device Test: 11.27 UJPOM9(dCLR\_3A\_CH1\_UJPOM9)

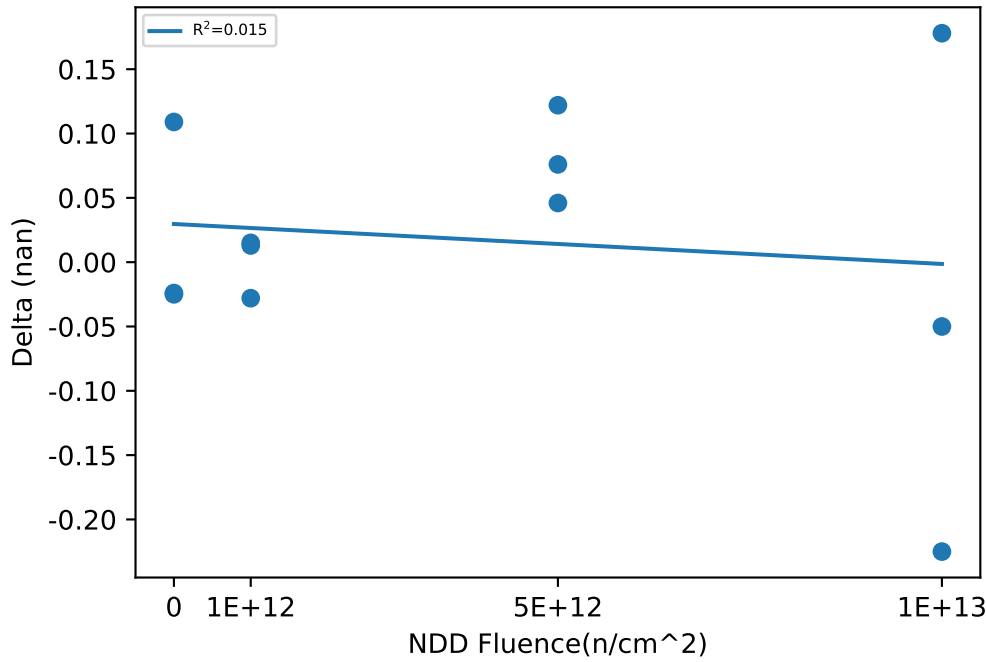
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.09	-0.075	0.015
2	1e+12	NDD, unbiased	0.005	-0.023	-0.028
3	1e+12	NDD, unbiased	0.833	0.846	0.013
4	5e+12	NDD, unbiased	0.144	0.19	0.046
5	5e+12	NDD, unbiased	0.19	0.266	0.076
6	5e+12	NDD, unbiased	-0.518	-0.396	0.122
7	1e+13	NDD, unbiased	-0.217	-0.442	-0.225
8	1e+13	NDD, unbiased	0.384	0.562	0.178
9	1e+13	NDD, unbiased	0.259	0.209	-0.05
10	0	correlation	1.853	1.828	-0.025
11	0	correlation	0.274	0.383	0.109
12	0	correlation	0.937	0.913	-0.024

## NDD vs Post - Pre Exposure Delta

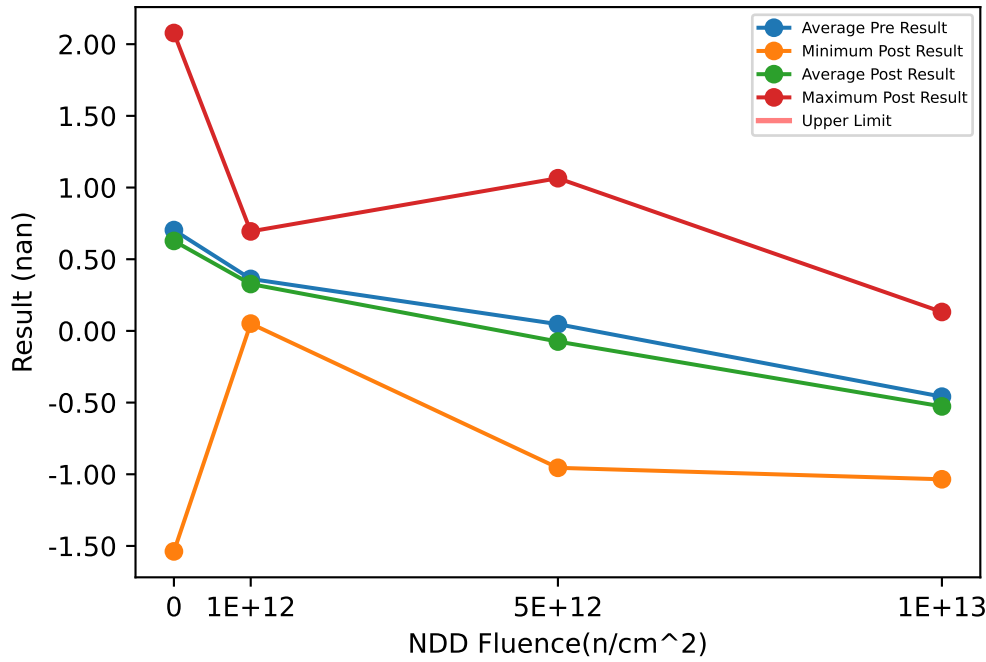


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.274	1.0213	1.853	0.79287	0.383	1.0413	1.828	0.731	-0.025	0.02	0.109	0.077078
1e+12	-0.09	0.24933	0.833	0.5077	-0.075	0.24933	0.846	0.51738	-0.028	3.4694e-18	0.015	0.024269
5e+12	-0.518	-0.061333	0.19	0.39615	-0.396	0.02	0.266	0.36227	0.046	0.081333	0.122	0.03828
1e+13	-0.217	0.142	0.384	0.31712	-0.442	0.10967	0.562	0.50932	-0.225	-0.032333	0.178	0.20208

# Device Test: 11.28 UJPOM9(dCLR\_3A\_CH2\_UJPOM9)

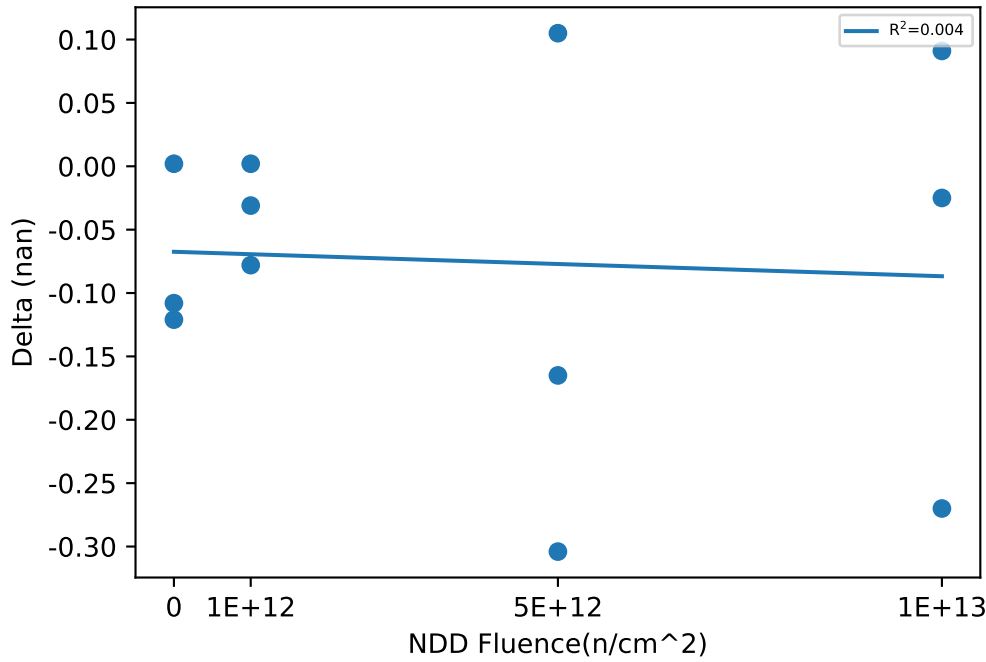
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.049	0.051	0.002
2	1e+12	NDD, unbiased	0.314	0.236	-0.078
3	1e+12	NDD, unbiased	0.725	0.694	-0.031
4	5e+12	NDD, unbiased	1.23	1.065	-0.165
5	5e+12	NDD, unbiased	-0.029	-0.333	-0.304
6	5e+12	NDD, unbiased	-1.06	-0.955	0.105
7	1e+13	NDD, unbiased	0.402	0.132	-0.27
8	1e+13	NDD, unbiased	-1.01	-1.035	-0.025
9	1e+13	NDD, unbiased	-0.768	-0.677	0.091
10	0	correlation	2.186	2.078	-0.108
11	0	correlation	1.464	1.343	-0.121
12	0	correlation	-1.54	-1.538	0.002

## NDD vs Post - Pre Exposure Delta

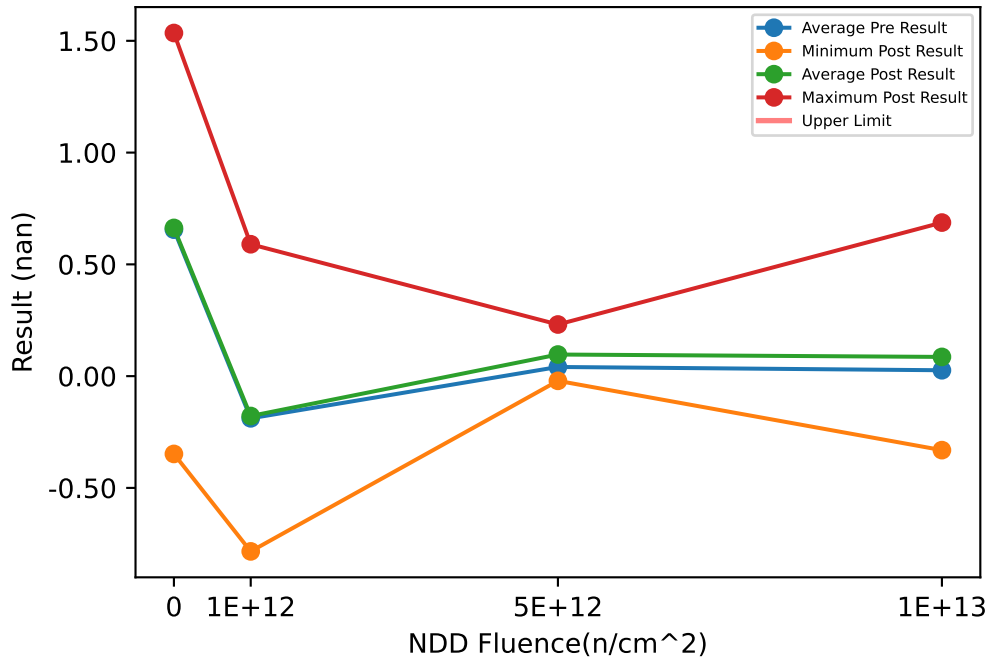


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.54	0.70333	2.186	1.976	-1.538	0.62767	2.078	1.9112	-0.121	-0.075667	0.002	0.067575
1e+12	0.049	0.36267	0.725	0.34062	0.051	0.327	0.694	0.33102	-0.078	-0.035667	0.002	0.040204
5e+12	-1.06	0.047	1.23	1.1469	-0.955	-0.074333	1.065	1.0345	-0.304	-0.12133	0.105	0.20797
1e+13	-1.01	-0.45867	0.402	0.75512	-1.035	-0.52667	0.132	0.59785	-0.27	-0.068	0.091	0.1843

# Device Test: 11.29 UJPOM9(dCLR\_3A\_CH3\_UJPOM9)

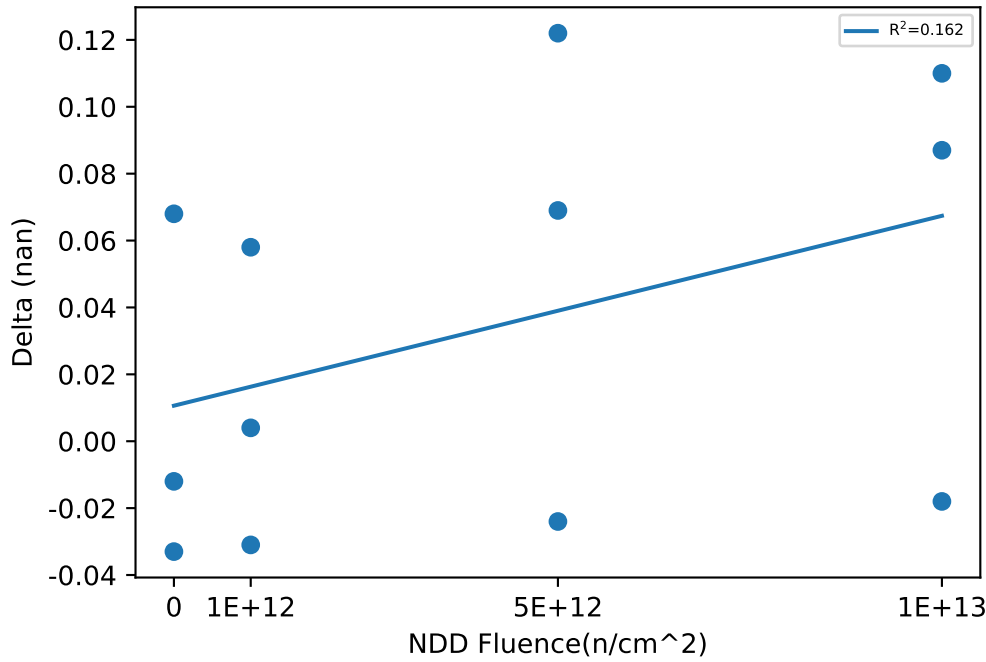
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.532	0.59	0.058
2	1e+12	NDD, unbiased	-0.31	-0.341	-0.031
3	1e+12	NDD, unbiased	-0.788	-0.784	0.004
4	5e+12	NDD, unbiased	0.162	0.231	0.069
5	5e+12	NDD, unbiased	0.003	-0.021	-0.024
6	5e+12	NDD, unbiased	-0.042	0.08	0.122
7	1e+13	NDD, unbiased	0.577	0.687	0.11
8	1e+13	NDD, unbiased	-0.08	-0.098	-0.018
9	1e+13	NDD, unbiased	-0.418	-0.331	0.087
10	0	correlation	0.835	0.802	-0.033
11	0	correlation	1.547	1.535	-0.012
12	0	correlation	-0.416	-0.348	0.068

## NDD vs Post - Pre Exposure Delta

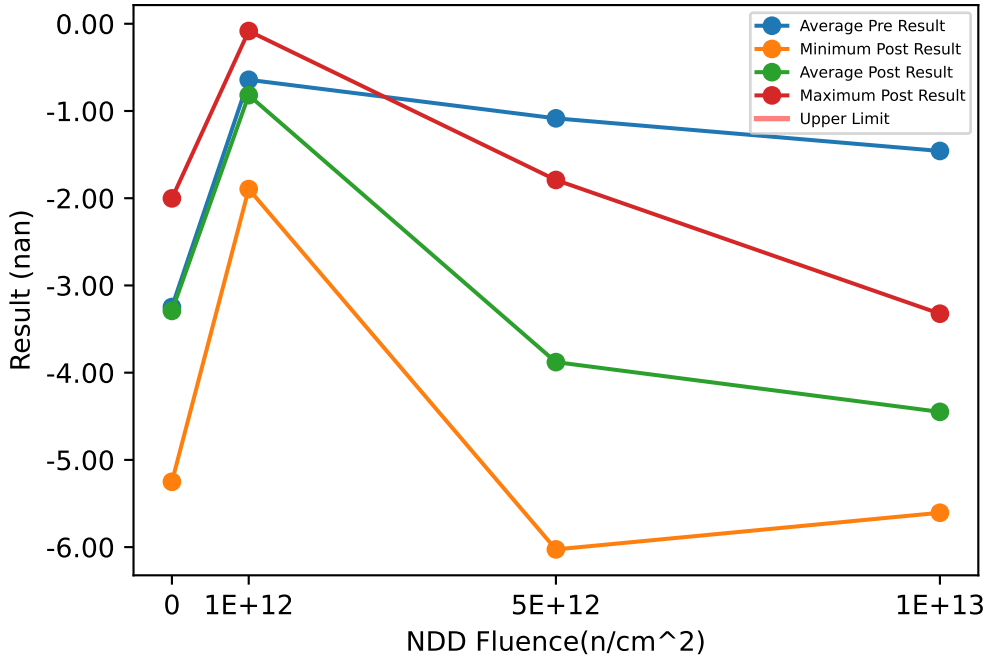


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.416	0.65533	1.547	0.99376	-0.348	0.663	1.535	0.94916	-0.033	0.0076667	0.068	0.053295
1e+12	-0.788	-0.18867	0.532	0.66831	-0.784	-0.17833	0.59	0.70129	-0.031	0.010333	0.058	0.044837
5e+12	-0.042	0.041	0.162	0.10718	-0.021	0.096667	0.231	0.12682	-0.024	0.055667	0.122	0.073908
1e+13	-0.418	0.026333	0.577	0.50595	-0.331	0.086	0.687	0.53336	-0.018	0.059667	0.11	0.068237

# Device Test: 11.3 UJ9ZQ5(dCLR\_P25A\_CH2\_UJ9ZQ5)

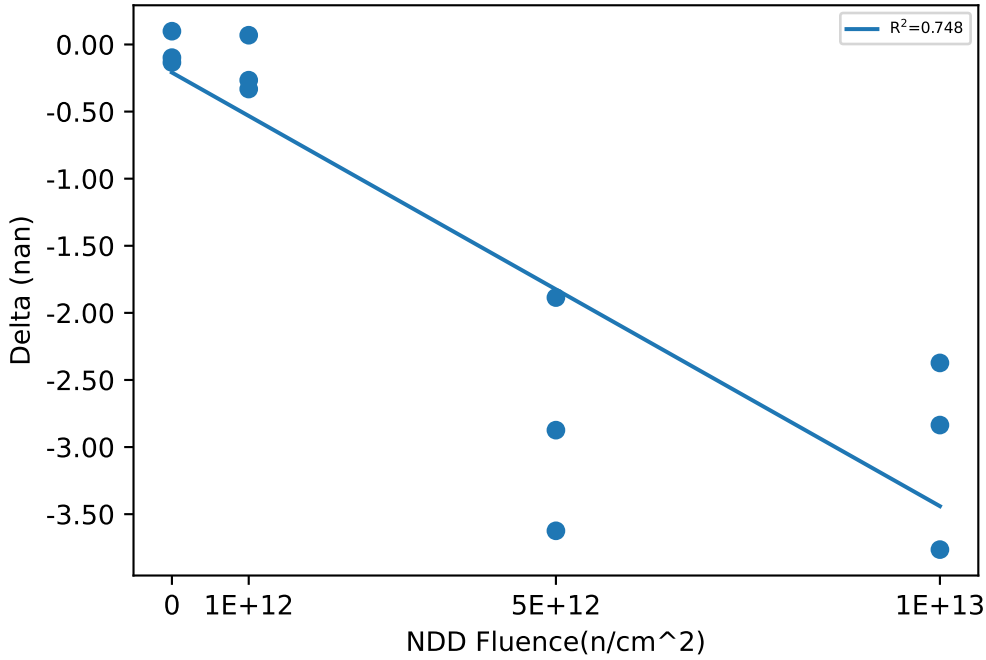
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-1.964	-1.895	0.069
2	1e+12	NDD, unbiased	0.249	-0.083	-0.332
3	1e+12	NDD, unbiased	-0.212	-0.478	-0.266
4	5e+12	NDD, unbiased	1.083	-1.791	-2.874
5	5e+12	NDD, unbiased	-2.402	-6.026	-3.624
6	5e+12	NDD, unbiased	-1.934	-3.82	-1.886
7	1e+13	NDD, unbiased	0.44	-3.324	-3.764
8	1e+13	NDD, unbiased	-3.233	-5.606	-2.373
9	1e+13	NDD, unbiased	-1.582	-4.418	-2.836
10	0	correlation	-1.868	-2.002	-0.134
11	0	correlation	-2.525	-2.623	-0.098
12	0	correlation	-5.35	-5.251	0.099

## NDD vs Post - Pre Exposure Delta

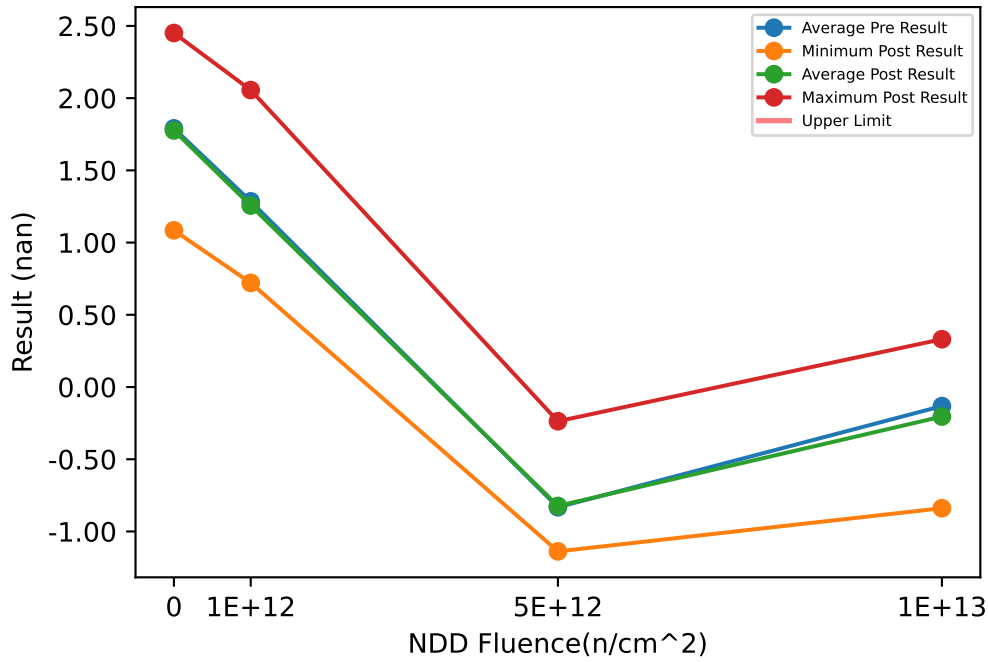


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-5.35	-3.2477	-1.868	1.8501	-5.251	-3.292	-2.002	1.7247	-0.134	-0.044333	0.099	0.12543
1e+12	-1.964	-0.64233	0.249	1.1676	-1.895	-0.81867	-0.083	0.95283	-0.332	-0.17633	0.069	0.21501
5e+12	-2.402	-1.0843	1.083	1.8915	-6.026	-3.879	-1.791	2.1181	-3.624	-2.7947	-1.886	0.87171
1e+13	-3.233	-1.4583	0.44	1.8396	-5.606	-4.4493	-3.324	1.1413	-3.764	-2.991	-2.373	0.70834

# Device Test: 11.30 UJPOM9(dCLR\_3A\_CH4\_UJPOM9)

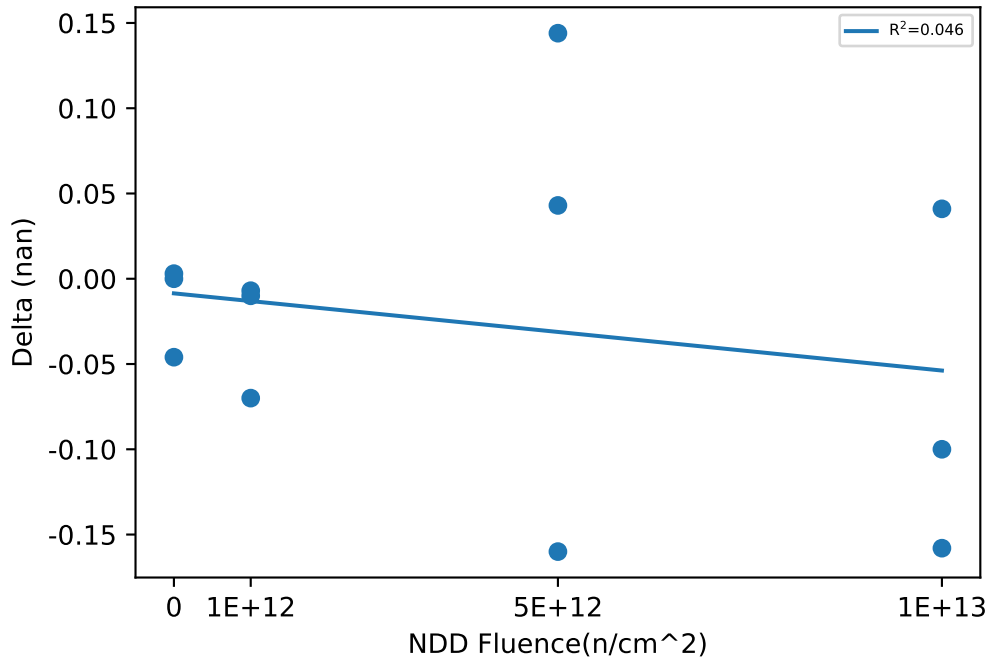
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.999	0.992	-0.007
2	1e+12	NDD, unbiased	2.126	2.056	-0.07
3	1e+12	NDD, unbiased	0.731	0.721	-0.01
4	5e+12	NDD, unbiased	-1.138	-1.095	0.043
5	5e+12	NDD, unbiased	-1.282	-1.138	0.144
6	5e+12	NDD, unbiased	-0.077	-0.237	-0.16
7	1e+13	NDD, unbiased	-0.739	-0.839	-0.1
8	1e+13	NDD, unbiased	-0.146	-0.105	0.041
9	1e+13	NDD, unbiased	0.489	0.331	-0.158
10	0	correlation	2.497	2.451	-0.046
11	0	correlation	1.79	1.793	0.003
12	0	correlation	1.085	1.085	0

## NDD vs Post - Pre Exposure Delta

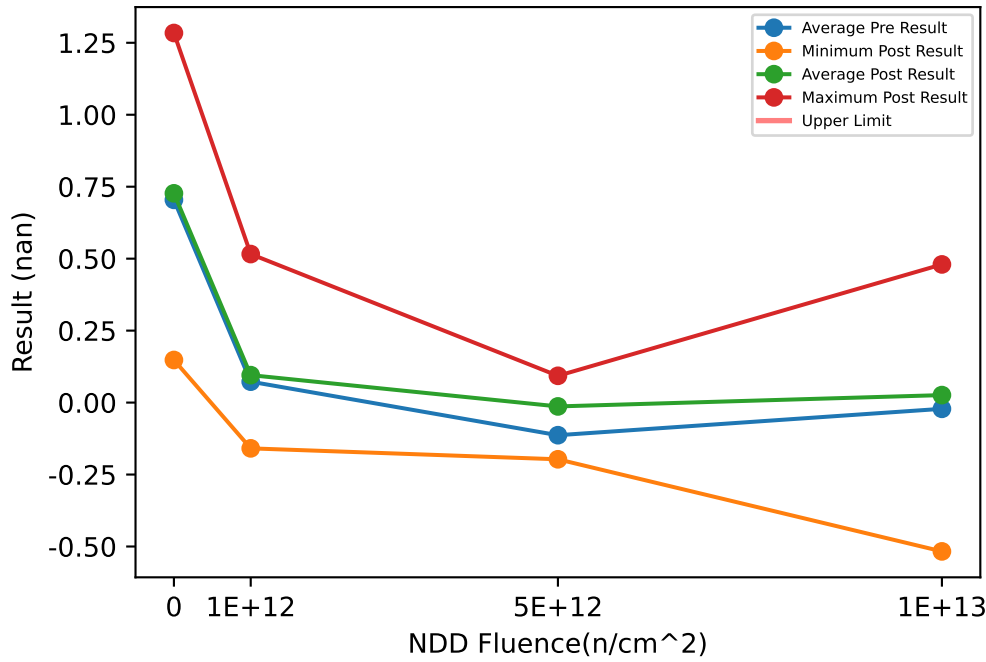


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.085	1.7907	2.497	0.706	1.085	1.7763	2.451	0.68315	-0.046	-0.014333	0.003	0.027465
1e+12	0.731	1.2853	2.126	0.74027	0.721	1.2563	2.056	0.70566	-0.07	-0.029	-0.007	0.035539
5e+12	-1.282	-0.83233	-0.077	0.65809	-1.138	-0.82333	-0.237	0.50823	-0.16	0.009	0.144	0.15483
1e+13	-0.739	-0.132	0.489	0.61412	-0.839	-0.20433	0.331	0.59129	-0.158	-0.072333	0.041	0.10234

# Device Test: 11.31 UJPOM9(dCLR\_4A\_CH1\_UJPOM9)

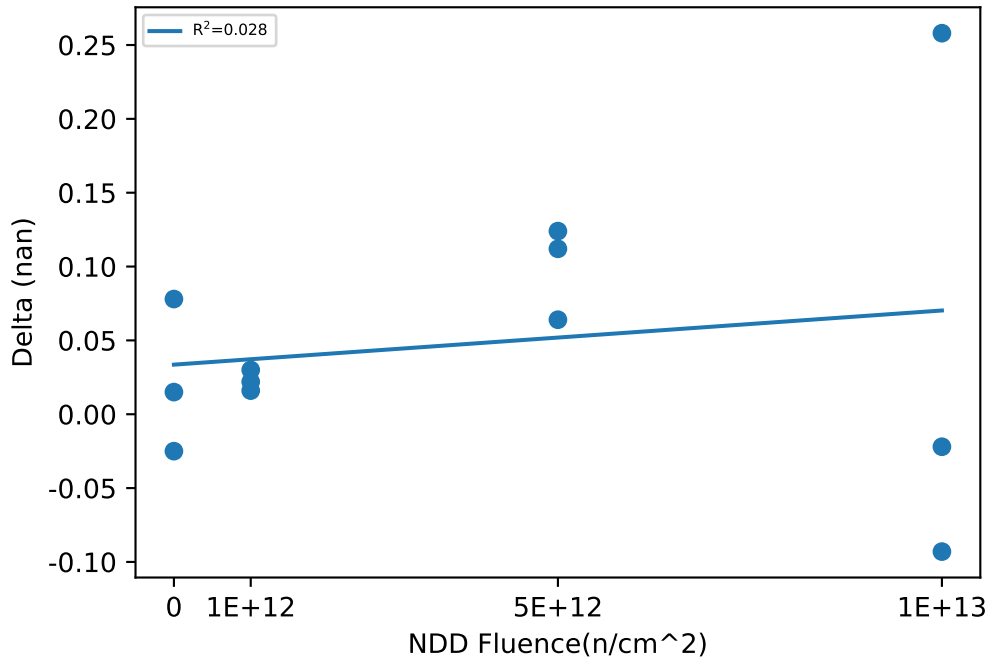
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.189	-0.159	0.03
2	1e+12	NDD, unbiased	-0.093	-0.071	0.022
3	1e+12	NDD, unbiased	0.5	0.516	0.016
4	5e+12	NDD, unbiased	0.029	0.093	0.064
5	5e+12	NDD, unbiased	-0.048	0.064	0.112
6	5e+12	NDD, unbiased	-0.321	-0.197	0.124
7	1e+13	NDD, unbiased	-0.424	-0.517	-0.093
8	1e+13	NDD, unbiased	0.222	0.48	0.258
9	1e+13	NDD, unbiased	0.137	0.115	-0.022
10	0	correlation	1.309	1.284	-0.025
11	0	correlation	0.07	0.148	0.078
12	0	correlation	0.734	0.749	0.015

## NDD vs Post - Pre Exposure Delta

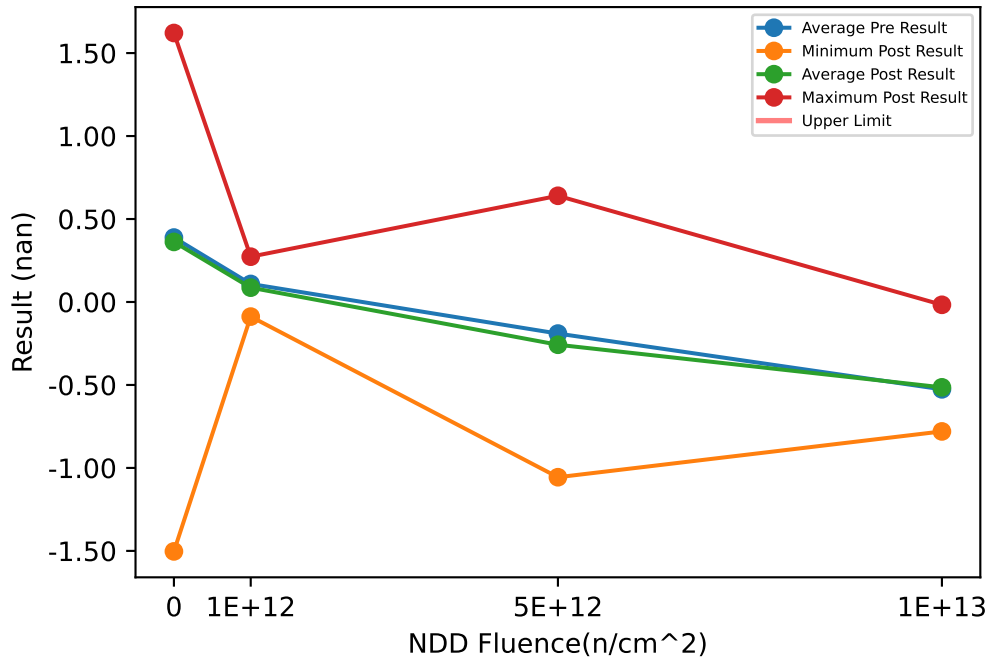


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.07	0.70433	1.309	0.62003	0.148	0.727	1.284	0.56832	-0.025	0.022667	0.078	0.051926
1e+12	-0.189	0.072667	0.5	0.37318	-0.159	0.095333	0.516	0.36696	0.016	0.022667	0.03	0.0070238
5e+12	-0.321	-0.11333	0.029	0.18392	-0.197	-0.013333	0.093	0.15972	0.064	0.1	0.124	0.031749
1e+13	-0.424	-0.021667	0.222	0.35101	-0.517	0.026	0.48	0.50442	-0.093	0.047667	0.258	0.18558

# Device Test: 11.32 UJPOM9(dCLR\_4A\_CH2\_UJPOM9)

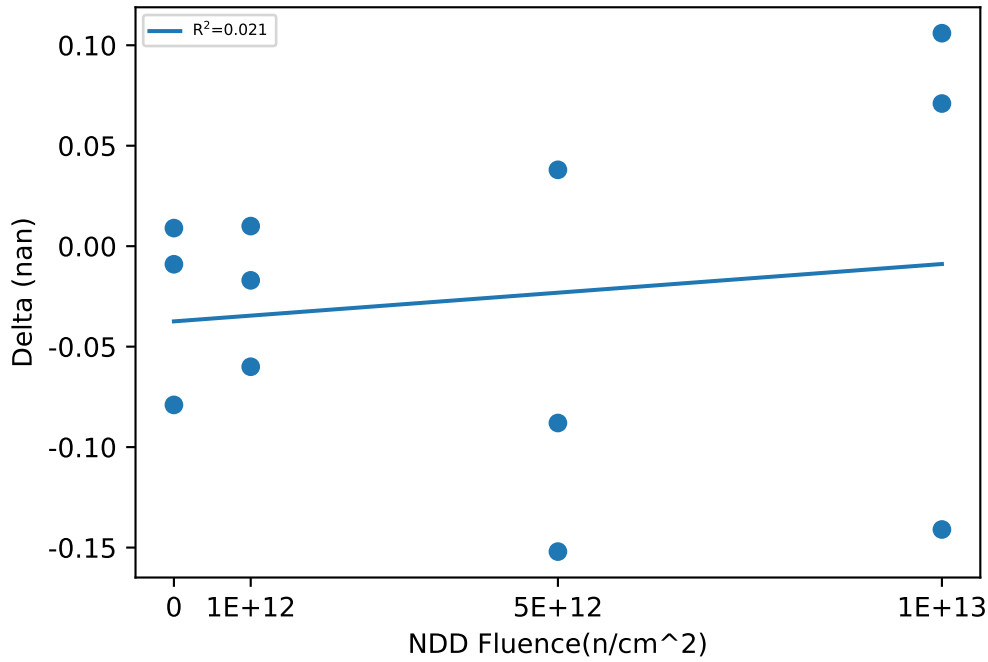
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.098	-0.088	0.01
2	1e+12	NDD, unbiased	0.134	0.074	-0.06
3	1e+12	NDD, unbiased	0.29	0.273	-0.017
4	5e+12	NDD, unbiased	0.728	0.64	-0.088
5	5e+12	NDD, unbiased	-0.205	-0.357	-0.152
6	5e+12	NDD, unbiased	-1.094	-1.056	0.038
7	1e+13	NDD, unbiased	0.124	-0.017	-0.141
8	1e+13	NDD, unbiased	-0.886	-0.78	0.106
9	1e+13	NDD, unbiased	-0.817	-0.746	0.071
10	0	correlation	1.7	1.621	-0.079
11	0	correlation	0.977	0.968	-0.009
12	0	correlation	-1.512	-1.503	0.009

## NDD vs Post - Pre Exposure Delta



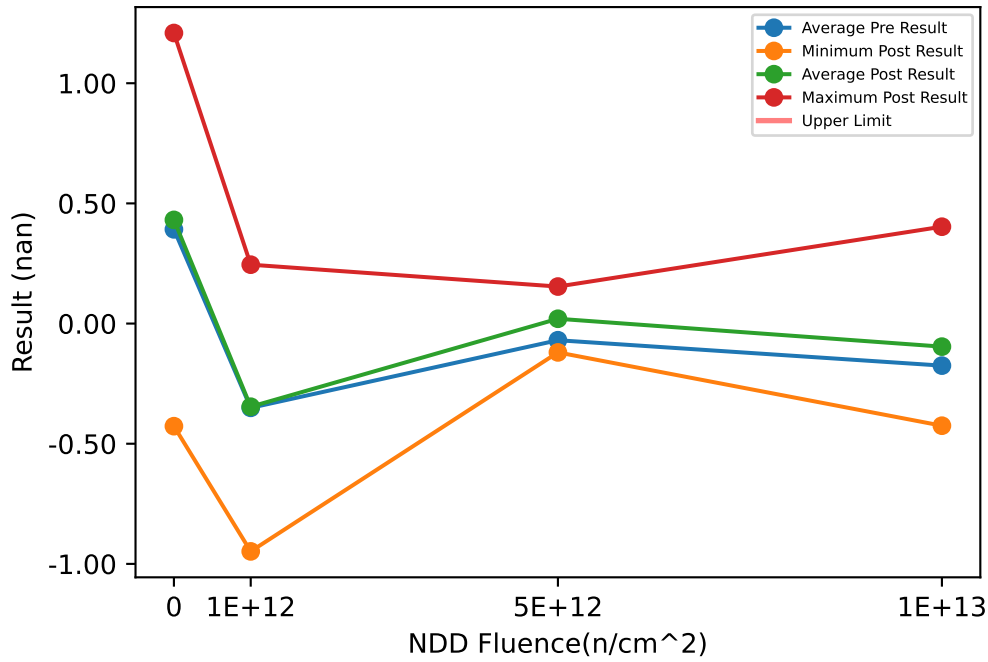
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.512	0.38833	1.7	1.685	-1.503	0.362	1.621	1.6478	-0.079	-0.026333	0.009	0.04649
1e+12	-0.098	0.10867	0.29	0.19524	-0.088	0.086333	0.273	0.18082	-0.06	-0.022333	0.01	0.035303
5e+12	-1.094	-0.19033	0.728	0.91109	-1.056	-0.25767	0.64	0.85235	-0.152	-0.067333	0.038	0.096671
1e+13	-0.886	-0.52633	0.124	0.56426	-0.78	-0.51433	-0.017	0.43104	-0.141	0.012	0.106	0.13365



# Device Test: 11.33 UJP0M9(dCLR\_4A\_CH3\_UJP0M9)

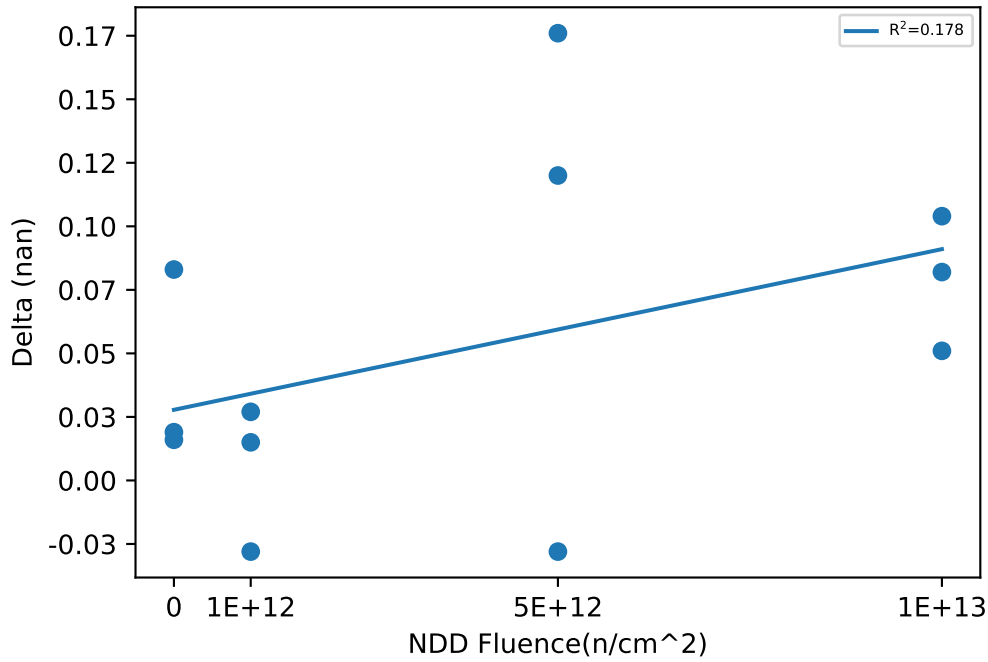
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.218	0.245	0.027
2	1e+12	NDD, unbiased	-0.35	-0.335	0.015
3	1e+12	NDD, unbiased	-0.92	-0.948	-0.028
4	5e+12	NDD, unbiased	0.034	0.154	0.12
5	5e+12	NDD, unbiased	-0.092	-0.12	-0.028
6	5e+12	NDD, unbiased	-0.15	0.026	0.176
7	1e+13	NDD, unbiased	0.321	0.403	0.082
8	1e+13	NDD, unbiased	-0.317	-0.266	0.051
9	1e+13	NDD, unbiased	-0.529	-0.425	0.104
10	0	correlation	0.493	0.512	0.019
11	0	correlation	1.193	1.209	0.016
12	0	correlation	-0.51	-0.427	0.083

## NDD vs Post - Pre Exposure Delta

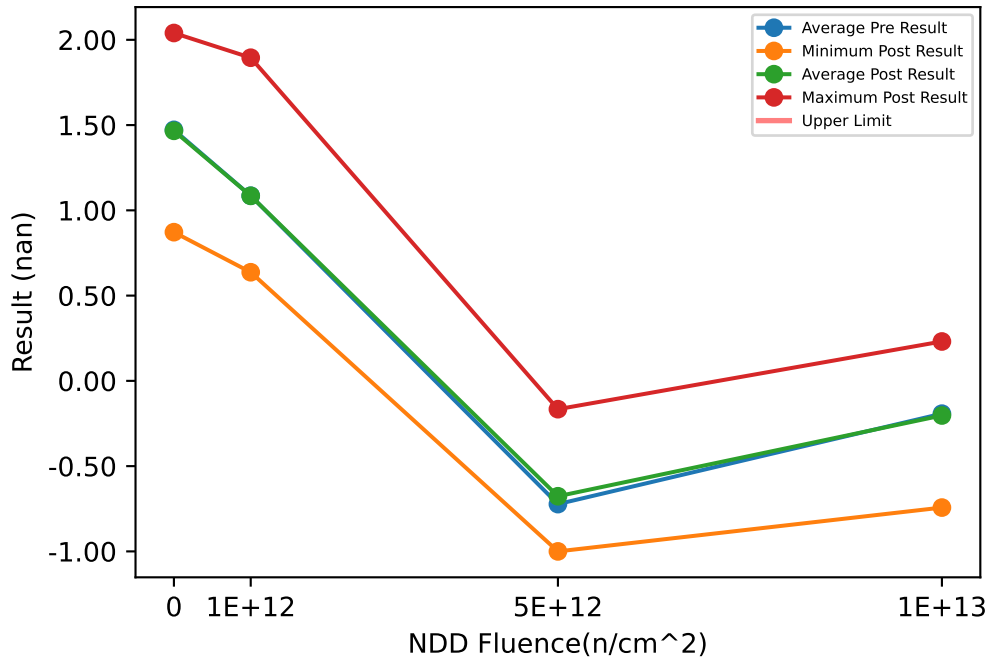


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.51	0.392	1.193	0.85598	-0.427	0.43133	1.209	0.82098	0.016	0.039333	0.083	0.037846
1e+12	-0.92	-0.35067	0.218	0.569	-0.948	-0.346	0.245	0.59658	-0.028	0.0046667	0.027	0.028919
5e+12	-0.15	-0.069333	0.034	0.094071	-0.12	0.02	0.154	0.1371	-0.028	0.089333	0.176	0.1054
1e+13	-0.529	-0.175	0.321	0.44243	-0.425	-0.096	0.403	0.4394	0.051	0.079	0.104	0.026627

# Device Test: 11.34 UJPOM9(dCLR\_4A\_CH4\_UJPOM9)

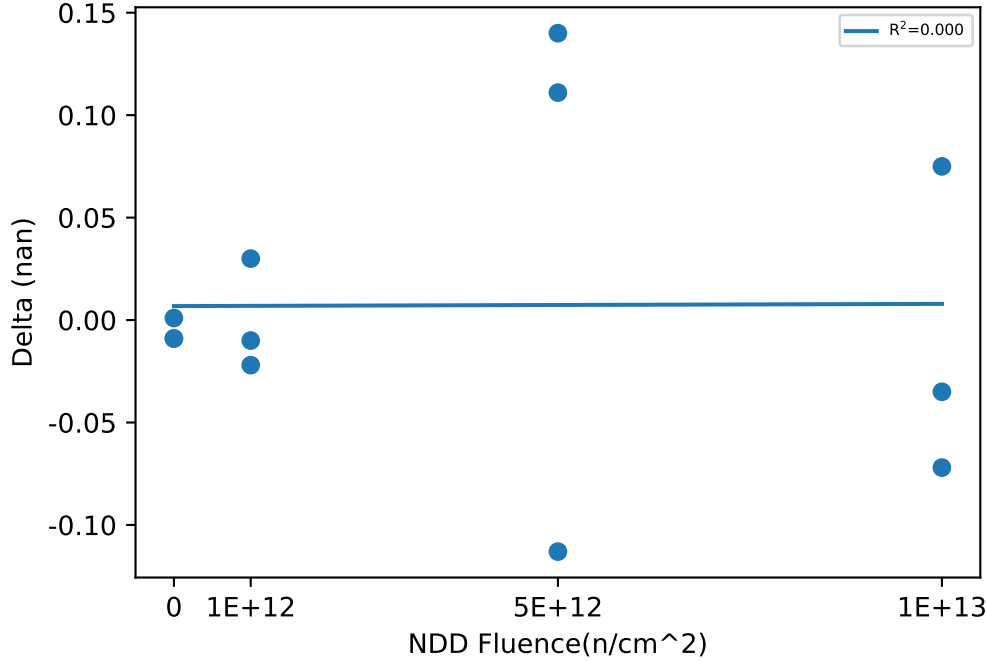
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.745	0.723	-0.022
2	1e+12	NDD, unbiased	1.905	1.895	-0.01
3	1e+12	NDD, unbiased	0.607	0.637	0.03
4	5e+12	NDD, unbiased	-1.111	-1	0.111
5	5e+12	NDD, unbiased	-1.004	-0.864	0.14
6	5e+12	NDD, unbiased	-0.053	-0.166	-0.113
7	1e+13	NDD, unbiased	-0.708	-0.743	-0.035
8	1e+13	NDD, unbiased	-0.172	-0.097	0.075
9	1e+13	NDD, unbiased	0.303	0.231	-0.072
10	0	correlation	2.049	2.04	-0.009
11	0	correlation	1.496	1.487	-0.009
12	0	correlation	0.871	0.872	0.001

## NDD vs Post - Pre Exposure Delta

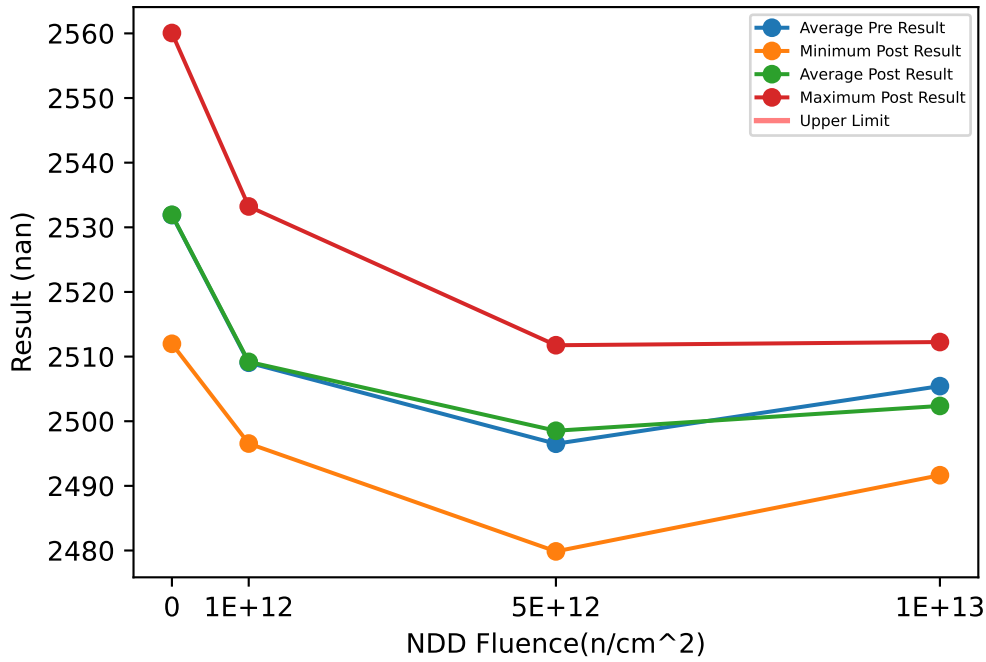


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.871	1.472	2.049	0.58937	0.872	1.4663	2.04	0.58427	-0.009	-0.0056667	0.001	0.0057735
1e+12	0.607	1.0857	1.905	0.71291	0.637	1.085	1.895	0.7028	-0.022	-0.00066667	0.03	0.027227
5e+12	-1.111	-0.72267	-0.053	0.58241	-1	-0.67667	-0.166	0.44745	-0.113	0.046	0.14	0.13846
1e+13	-0.708	-0.19233	0.303	0.50581	-0.743	-0.203	0.231	0.49558	-0.072	-0.010667	0.075	0.076461

# Device Test: 11.39 UJET8J(KCL\_2A\_CH1\_UJET8J)

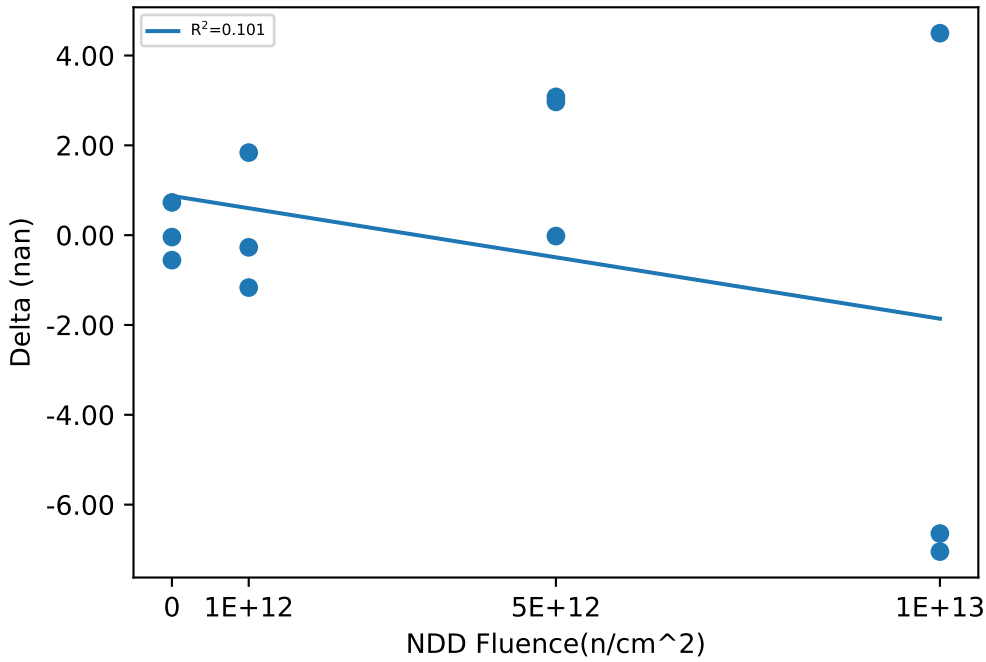
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2497.7	2496.5	-1.167
2	1e+12	NDD, unbiased	2498	2497.8	-0.271
3	1e+12	NDD, unbiased	2531.4	2533.2	1.838
4	5e+12	NDD, unbiased	2504	2504	-0.021
5	5e+12	NDD, unbiased	2508.7	2511.8	3.079
6	5e+12	NDD, unbiased	2476.9	2479.9	2.967
7	1e+13	NDD, unbiased	2498.7	2491.6	-7.046
8	1e+13	NDD, unbiased	2507.8	2512.2	4.497
9	1e+13	NDD, unbiased	2509.8	2503.2	-6.644
10	0	correlation	2560.1	2560.1	-0.043
11	0	correlation	2511.2	2512	0.729
12	0	correlation	2524.3	2523.8	-0.557

## NDD vs Post - Pre Exposure Delta

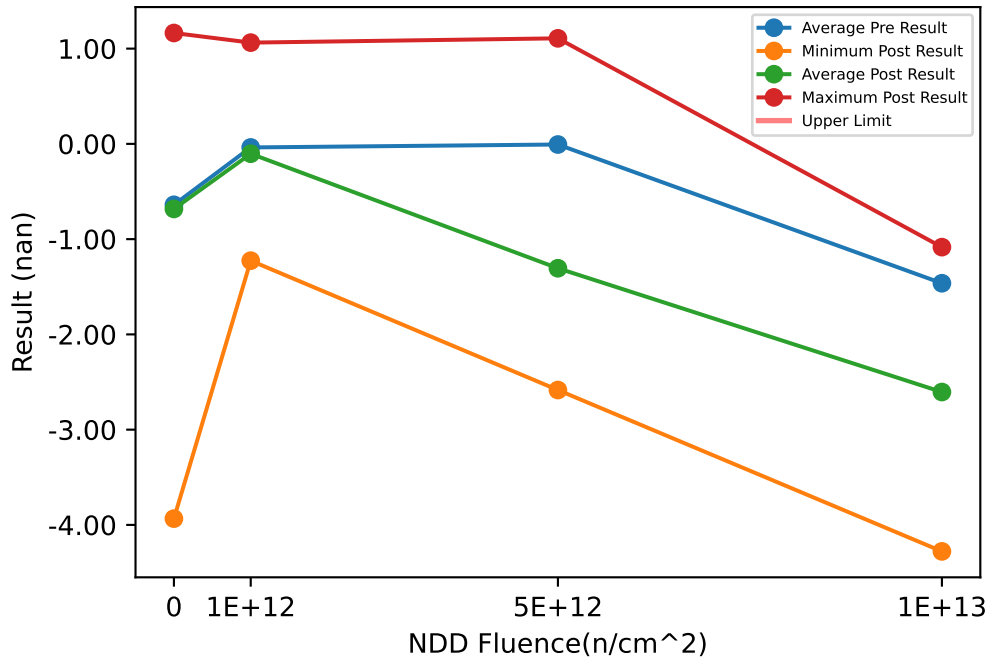


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2511.2	2531.9	2560.1	25.292	2512	2531.9	2560.1	25.061	-0.557	0.043	0.729	0.6473
1e+12	2497.7	2509	2531.4	19.346	2496.5	2509.2	2533.2	20.83	-1.167	0.13333	1.838	1.5428
5e+12	2476.9	2496.5	2508.7	17.155	2479.9	2498.5	2511.8	16.627	-0.021	2.0083	3.079	1.7583
1e+13	2498.7	2505.4	2509.8	5.9249	2491.6	2502.4	2512.2	10.326	-7.046	-3.0643	4.497	6.5514

# Device Test: 11.4 UJSYNT(dCLR\_P5A\_CH2\_UJSYNT)

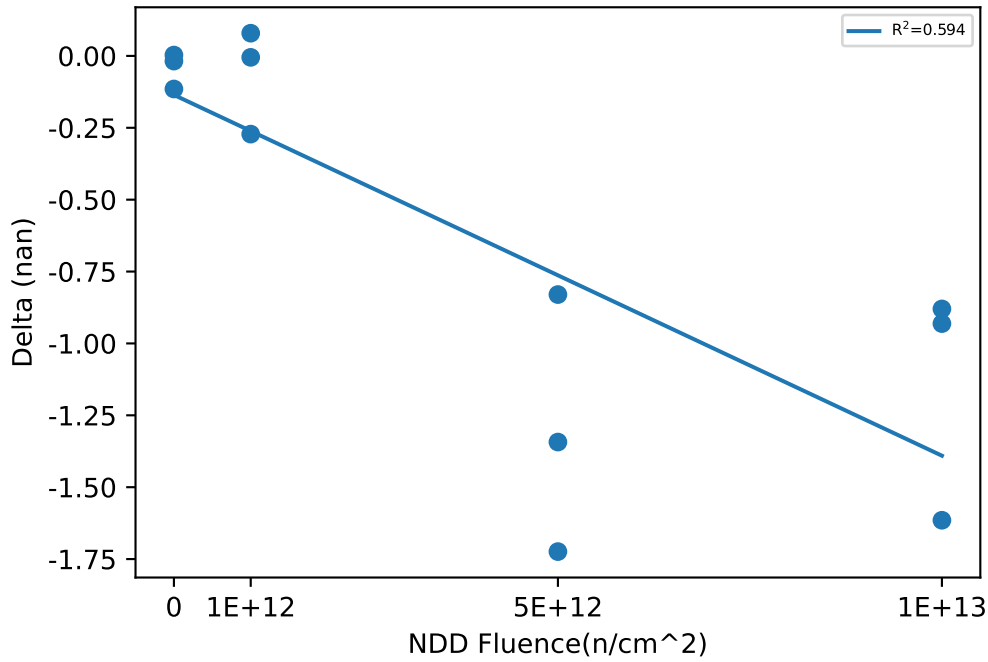
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-1.221	-1.226	-0.005
2	1e+12	NDD, unbiased	0.125	-0.147	-0.272
3	1e+12	NDD, unbiased	0.984	1.063	0.079
4	5e+12	NDD, unbiased	2.451	1.108	-1.343
5	5e+12	NDD, unbiased	-0.717	-2.441	-1.724
6	5e+12	NDD, unbiased	-1.754	-2.584	-0.83
7	1e+13	NDD, unbiased	0.531	-1.084	-1.615
8	1e+13	NDD, unbiased	-3.347	-4.278	-0.931
9	1e+13	NDD, unbiased	-1.573	-2.453	-0.88
10	0	correlation	1.279	1.164	-0.115
11	0	correlation	0.739	0.721	-0.018
12	0	correlation	-3.937	-3.934	0.003

## NDD vs Post - Pre Exposure Delta

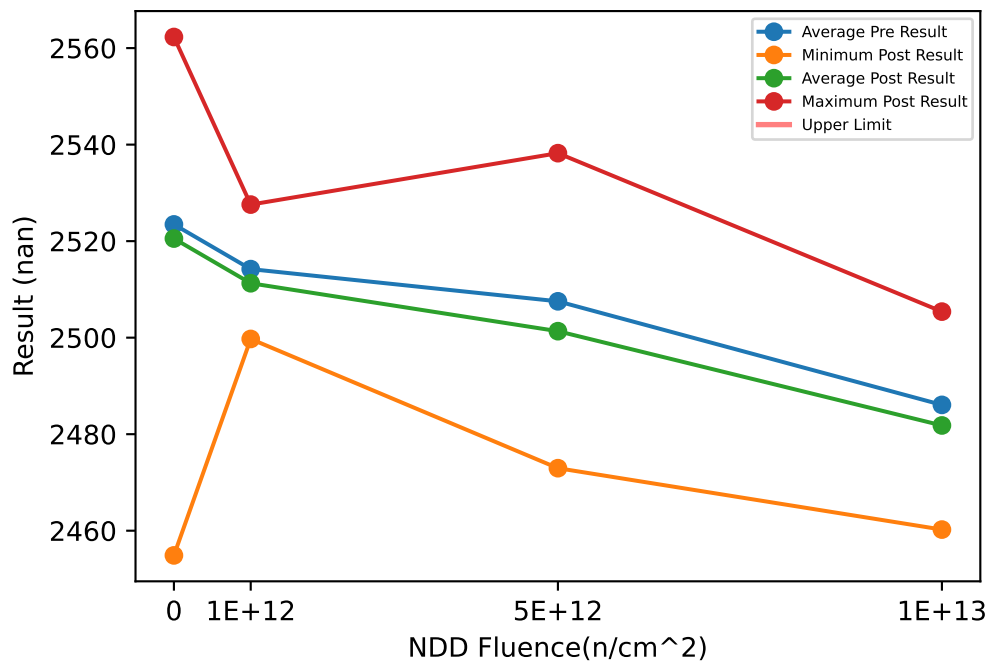


## Test Statistics (nan)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-3.937	-0.63967	1.279	2.8683	-3.934	-0.683	1.164	2.8241	-0.115	-0.043333	0.003	0.062947
1e+12	-1.221	-0.037333	0.984	1.1114	-1.226	-0.10333	1.063	1.1451	-0.272	-0.066	0.079	0.18328
5e+12	-1.754	-0.0066667	2.451	2.1906	-2.584	-1.3057	1.108	2.0915	-1.724	-1.299	-0.83	0.44862
1e+13	-3.347	-1.463	0.531	1.9413	-4.278	-2.605	-1.084	1.6024	-1.615	-1.142	-0.88	0.41042

# Device Test: 11.40 UJET8J(KCL\_2A\_CH2\_UJET8J)

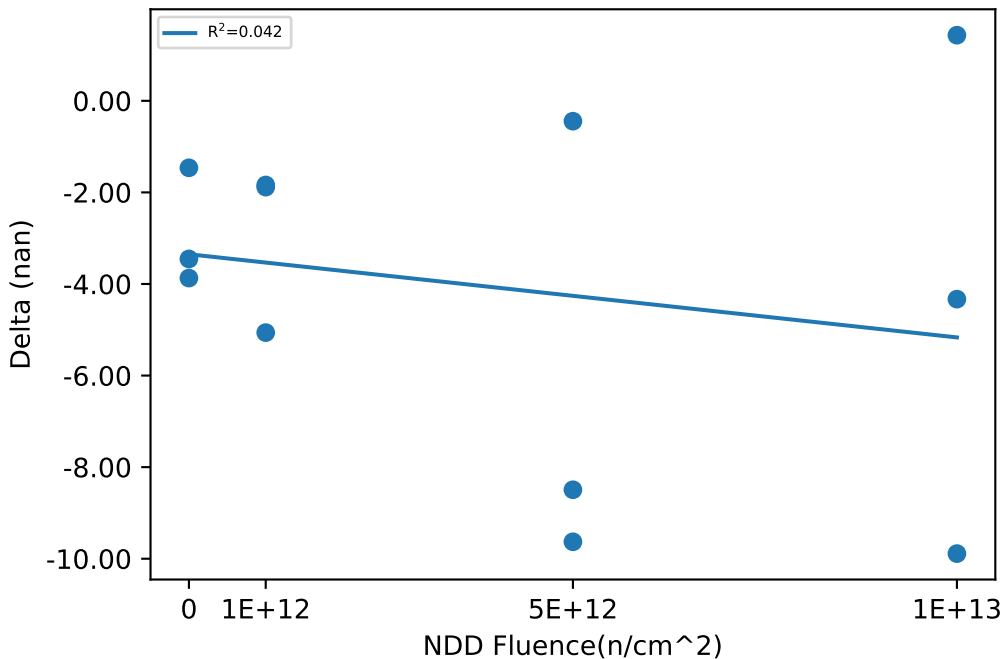
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2501.6	2499.7	-1.838
2	1e+12	NDD, unbiased	2511.6	2506.5	-5.062
3	1e+12	NDD, unbiased	2529.5	2527.6	-1.885
4	5e+12	NDD, unbiased	2546.7	2538.2	-8.494
5	5e+12	NDD, unbiased	2502.5	2492.8	-9.63
6	5e+12	NDD, unbiased	2473.4	2473	-0.445
7	1e+13	NDD, unbiased	2515.3	2505.4	-9.888
8	1e+13	NDD, unbiased	2464.6	2460.2	-4.331
9	1e+13	NDD, unbiased	2478.4	2479.8	1.433
10	0	correlation	2565.8	2562.3	-3.453
11	0	correlation	2548.3	2544.4	-3.871
12	0	correlation	2456.3	2454.9	-1.463

## NDD vs Post - Pre Exposure Delta

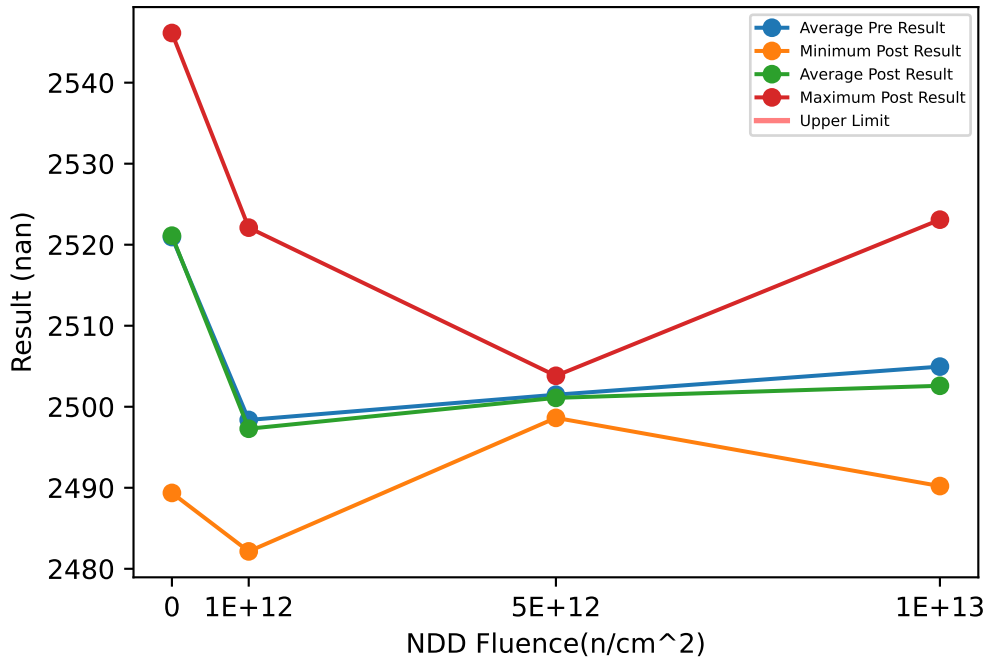


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2456.3	2523.5	2565.8	58.778	2454.9	2520.5	2562.3	57.555	-3.871	-2.929	-1.463	1.2867
1e+12	2501.6	2514.2	2529.5	14.128	2499.7	2511.3	2527.6	14.518	-5.062	-2.9283	-1.838	1.848
5e+12	2473.4	2507.5	2546.7	36.922	2473	2501.3	2538.2	33.456	-9.63	-6.1897	-0.445	5.0073
1e+13	2464.6	2486.1	2515.3	26.224	2460.2	2481.8	2505.4	22.649	-9.888	-4.262	1.433	5.6608

# Device Test: 11.41 UJET8J(KCL\_2A\_CH3\_UJET8J)

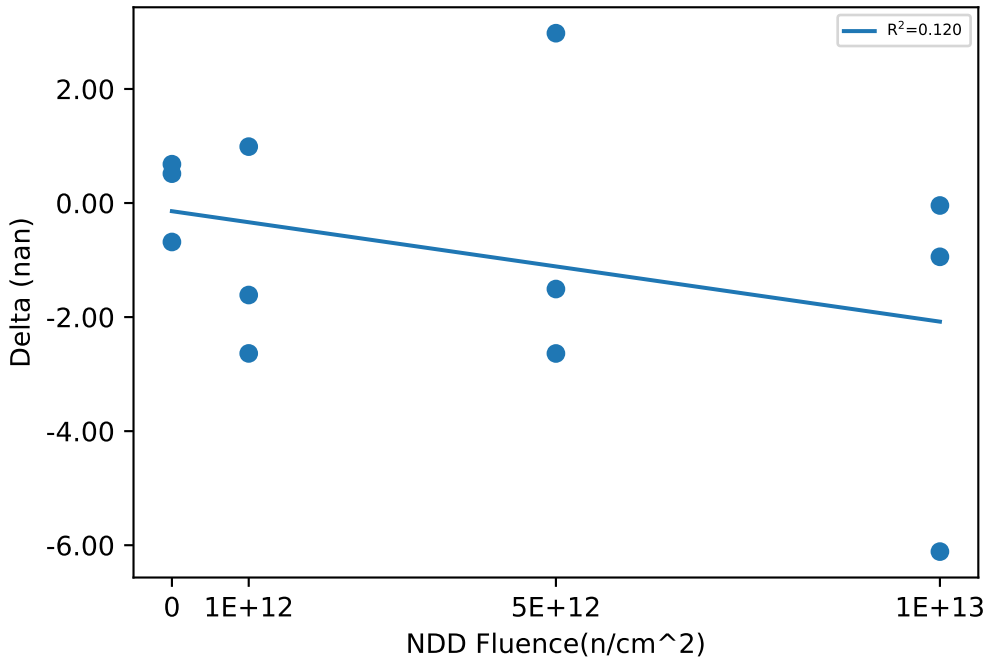
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2521.1	2522.1	0.989
2	1e+12	NDD, unbiased	2490.2	2487.6	-2.637
3	1e+12	NDD, unbiased	2483.8	2482.1	-1.613
4	5e+12	NDD, unbiased	2505.3	2503.8	-1.508
5	5e+12	NDD, unbiased	2501.3	2498.6	-2.638
6	5e+12	NDD, unbiased	2497.9	2500.8	2.978
7	1e+13	NDD, unbiased	2523.1	2523.1	-0.043
8	1e+13	NDD, unbiased	2500.6	2494.5	-6.112
9	1e+13	NDD, unbiased	2491.2	2490.2	-0.943
10	0	correlation	2527.2	2527.9	0.681
11	0	correlation	2546.8	2546.1	-0.683
12	0	correlation	2488.8	2489.4	0.515

## NDD vs Post - Pre Exposure Delta

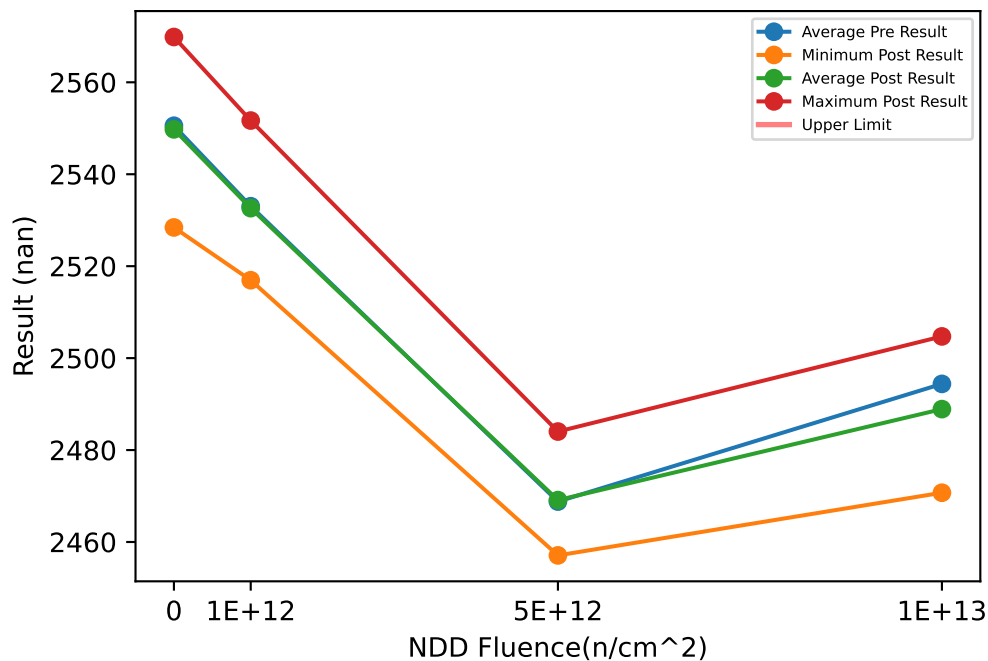


## Test Statistics (nan)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2488.8	2520.9	2546.8	29.48	2489.4	2521.1	2546.1	28.977	-0.683	0.171	0.681	0.74423
1e+12	2483.8	2498.4	2521.1	19.961	2482.1	2497.3	2522.1	21.666	-2.637	-1.087	0.989	1.8694
5e+12	2497.9	2501.5	2505.3	3.7363	2498.6	2501.1	2503.8	2.6048	-2.638	-0.38933	2.978	2.9704
1e+13	2491.2	2505	2523.1	16.434	2490.2	2502.6	2523.1	17.884	-6.112	-2.366	-0.043	3.2752

# Device Test: 11.42 UJET8J(KCL\_2A\_CH4\_UJET8J)

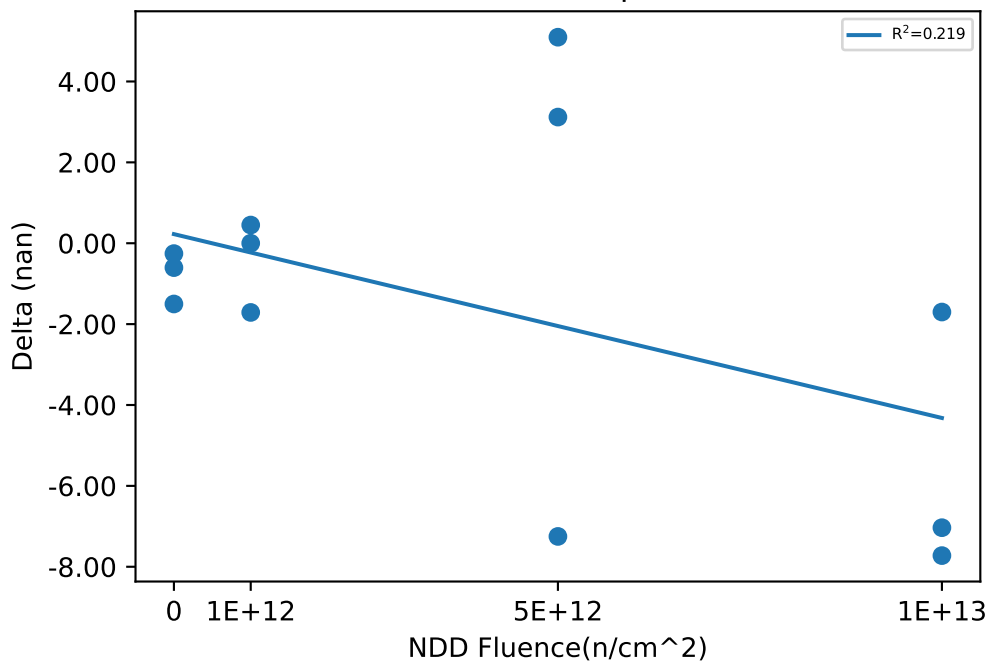
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2528.8	2529.2	0.45
2	1e+12	NDD, unbiased	2553.4	2551.7	-1.711
3	1e+12	NDD, unbiased	2516.9	2516.9	0
4	5e+12	NDD, unbiased	2463.1	2466.2	3.12
5	5e+12	NDD, unbiased	2452	2457.1	5.095
6	5e+12	NDD, unbiased	2491.3	2484	-7.25
7	1e+13	NDD, unbiased	2477.8	2470.7	-7.034
8	1e+13	NDD, unbiased	2493	2491.3	-1.701
9	1e+13	NDD, unbiased	2512.4	2504.7	-7.724
10	0	correlation	2570.1	2569.9	-0.256
11	0	correlation	2551.6	2551	-0.603
12	0	correlation	2529.9	2528.4	-1.502

## NDD vs Post - Pre Exposure Delta

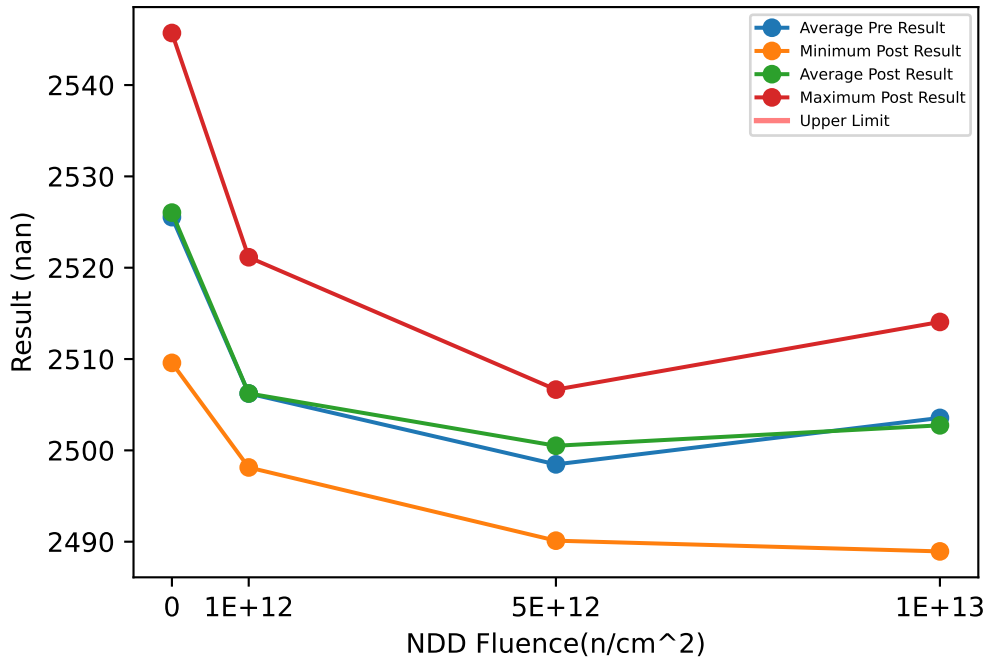


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2529.9	2550.6	2570.1	20.112	2528.4	2549.8	2569.9	20.742	-1.502	-0.787	-0.256	0.64306
1e+12	2516.9	2533	2553.4	18.59	2516.9	2532.6	2551.7	17.611	-1.711	-0.42033	0.45	1.1402
5e+12	2452	2468.8	2491.3	20.25	2457.1	2469.1	2484	13.7	-7.25	0.32167	5.095	6.6312
1e+13	2477.8	2494.4	2512.4	17.391	2470.7	2488.9	2504.7	17.127	-7.724	-5.4863	-1.701	3.2963

# Device Test: 11.43 UJET8J(KCL\_3A\_CH1\_UJET8J)

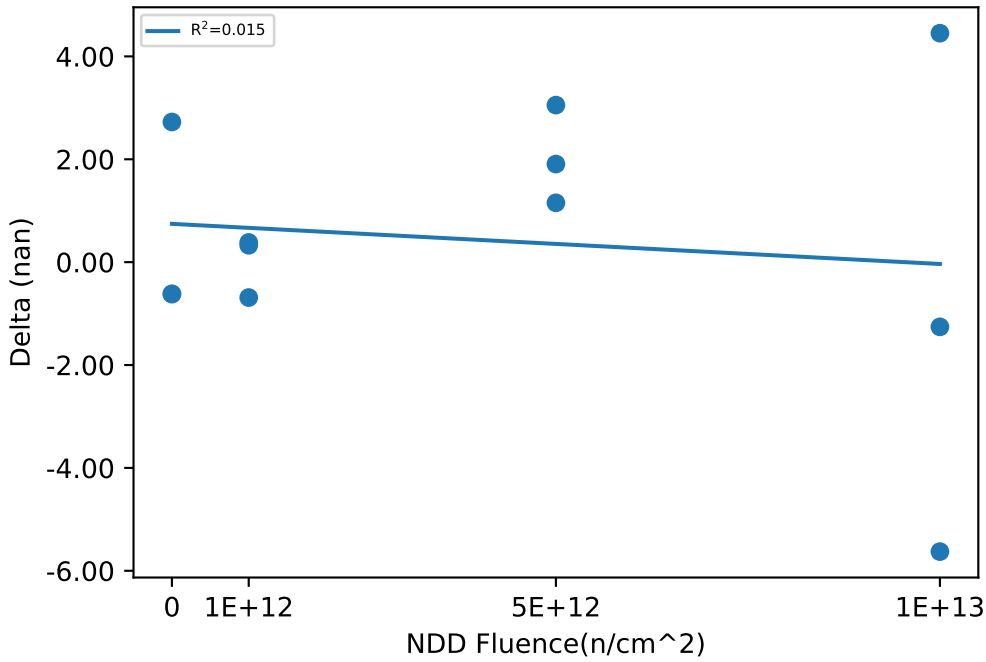
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2497.7	2498.1	0.383
2	1e+12	NDD, unbiased	2500.1	2499.4	-0.688
3	1e+12	NDD, unbiased	2520.8	2521.1	0.328
4	5e+12	NDD, unbiased	2503.6	2504.7	1.153
5	5e+12	NDD, unbiased	2504.7	2506.7	1.907
6	5e+12	NDD, unbiased	2487.1	2490.1	3.053
7	1e+13	NDD, unbiased	2494.6	2488.9	-5.627
8	1e+13	NDD, unbiased	2509.6	2514.1	4.451
9	1e+13	NDD, unbiased	2506.5	2505.2	-1.258
10	0	correlation	2546.3	2545.7	-0.62
11	0	correlation	2506.9	2509.6	2.725
12	0	correlation	2523.4	2522.8	-0.617

## NDD vs Post - Pre Exposure Delta



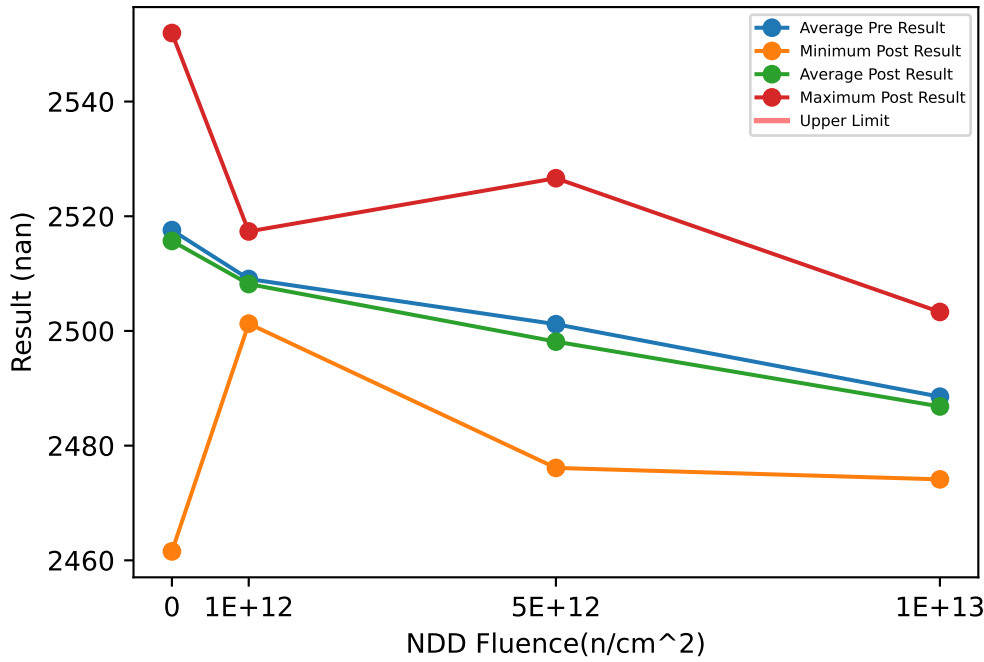
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2506.9	2525.5	2546.3	19.816	2509.6	2526	2545.7	18.273	-0.62	0.496	2.725	1.9304
1e+12	2497.7	2506.2	2520.8	12.692	2498.1	2506.2	2521.1	12.93	-0.688	0.0076667	0.383	0.60309
5e+12	2487.1	2498.5	2504.7	9.8963	2490.1	2500.5	2506.7	9.0505	1.153	2.0377	3.053	0.95672
1e+13	2494.6	2503.6	2509.6	7.939	2488.9	2502.7	2514.1	12.744	-5.627	-0.81133	4.451	5.0538



# Device Test: 11.44 UJET8J(KCL\_3A\_CH2\_UJET8J)

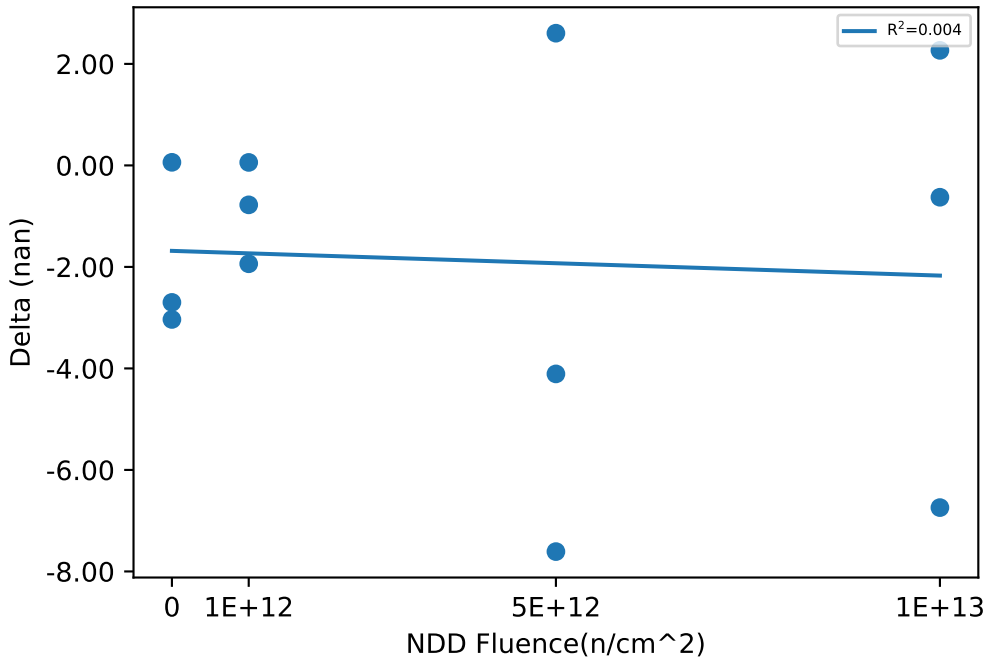
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2501.2	2501.3	0.059
2	1e+12	NDD, unbiased	2507.8	2505.9	-1.938
3	1e+12	NDD, unbiased	2518.1	2517.3	-0.777
4	5e+12	NDD, unbiased	2530.7	2526.6	-4.108
5	5e+12	NDD, unbiased	2499.3	2491.7	-7.609
6	5e+12	NDD, unbiased	2473.5	2476.1	2.605
7	1e+13	NDD, unbiased	2510.1	2503.3	-6.742
8	1e+13	NDD, unbiased	2474.7	2474.1	-0.627
9	1e+13	NDD, unbiased	2480.8	2483.1	2.267
10	0	correlation	2554.7	2552	-2.699
11	0	correlation	2536.6	2533.6	-3.035
12	0	correlation	2461.5	2461.6	0.061

## NDD vs Post - Pre Exposure Delta

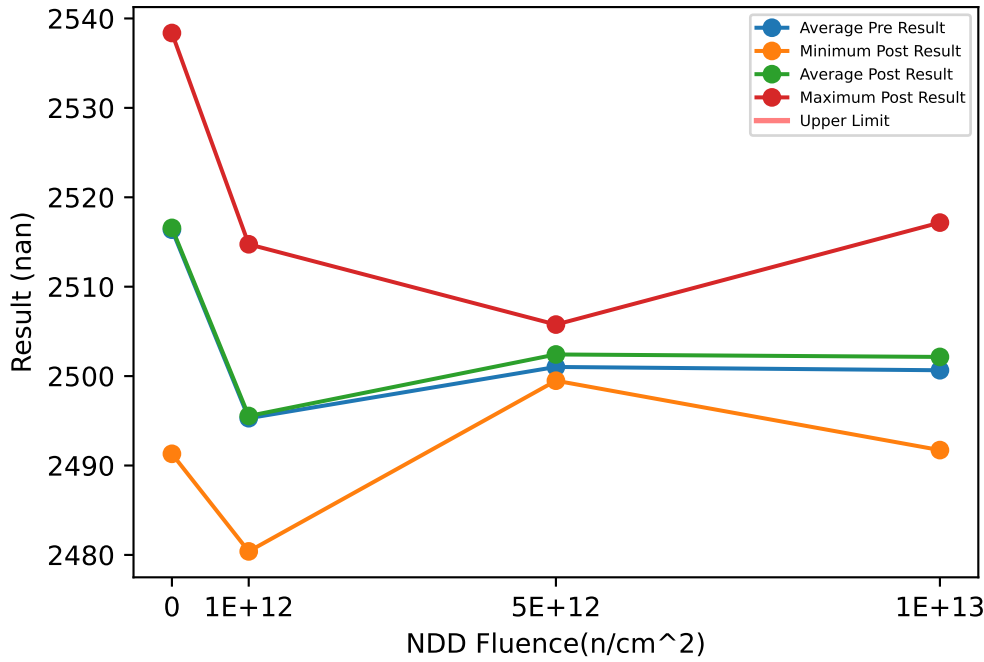


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2461.5	2517.6	2554.7	49.404	2461.6	2515.7	2552	47.775	-3.035	-1.891	0.061	1.6988
1e+12	2501.2	2509.1	2518.1	8.5206	2501.3	2508.2	2517.3	8.2738	-1.938	-0.88533	0.059	1.0029
5e+12	2473.5	2501.2	2530.7	28.661	2476.1	2498.1	2526.6	25.872	-7.609	-3.0373	2.605	5.1905
1e+13	2474.7	2488.5	2510.1	18.879	2474.1	2486.8	2503.3	14.954	-6.742	-1.7007	2.267	4.5995

# Device Test: 11.45 UJET8J(KCL\_3A\_CH3\_UJET8J)

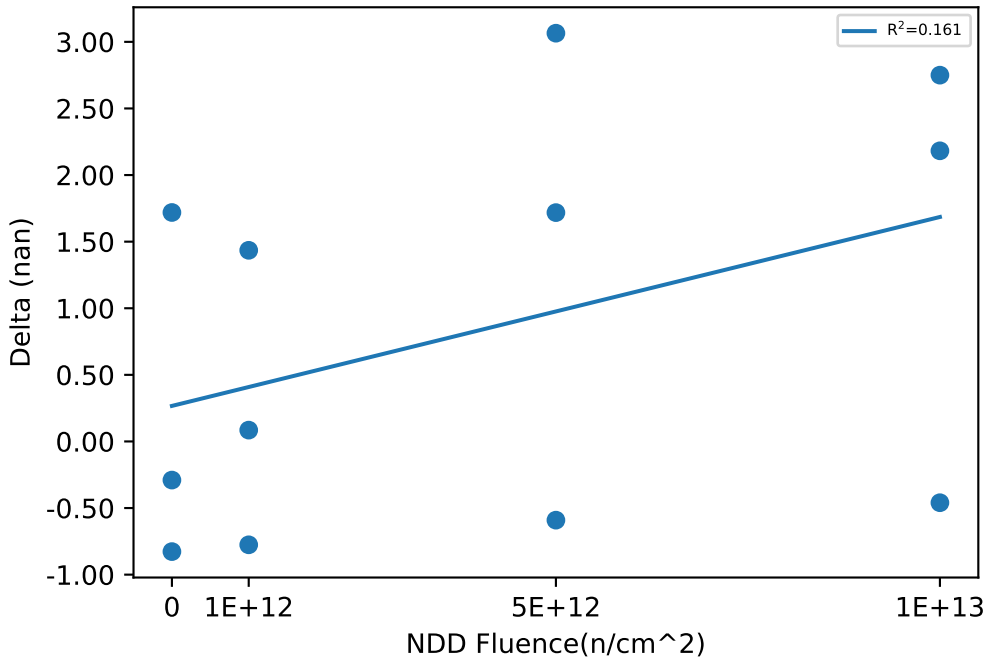
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2513.3	2514.7	1.435
2	1e+12	NDD, unbiased	2492.3	2491.5	-0.776
3	1e+12	NDD, unbiased	2480.3	2480.4	0.085
4	5e+12	NDD, unbiased	2504	2505.8	1.718
5	5e+12	NDD, unbiased	2500.1	2499.5	-0.591
6	5e+12	NDD, unbiased	2498.9	2502	3.065
7	1e+13	NDD, unbiased	2514.4	2517.2	2.75
8	1e+13	NDD, unbiased	2498	2497.5	-0.46
9	1e+13	NDD, unbiased	2489.5	2491.7	2.182
10	0	correlation	2520.9	2520	-0.827
11	0	correlation	2538.7	2538.4	-0.29
12	0	correlation	2489.6	2491.3	1.719

## NDD vs Post - Pre Exposure Delta

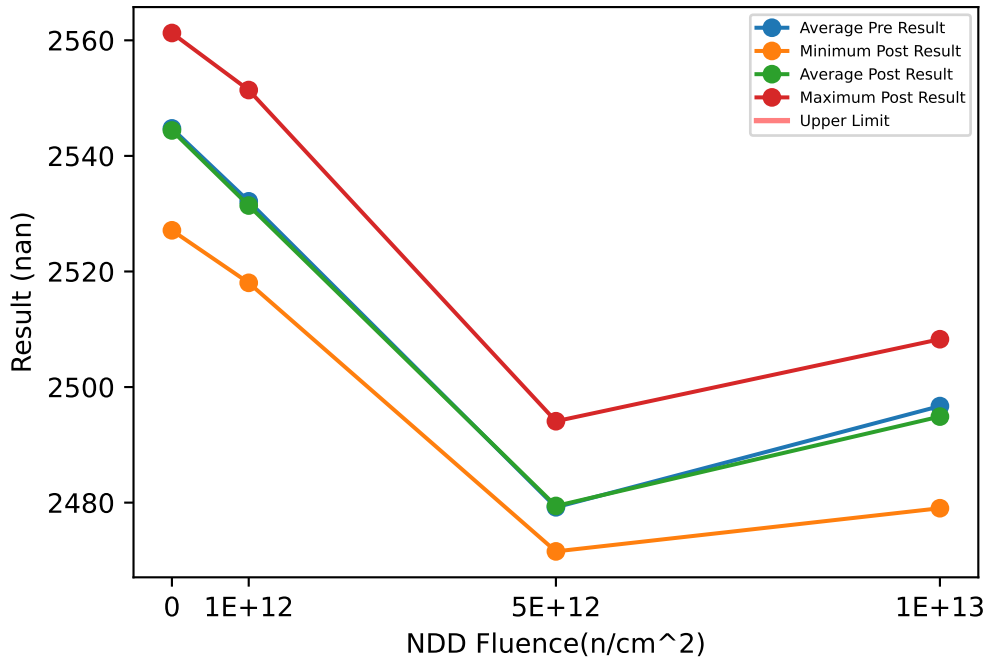


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2489.6	2516.4	2538.7	24.845	2491.3	2516.6	2538.4	23.724	-0.827	0.20067	1.719	1.342
1e+12	2480.3	2495.3	2513.3	16.708	2480.4	2495.5	2514.7	17.531	-0.776	0.248	1.435	1.1145
5e+12	2498.9	2501	2504	2.6774	2499.5	2502.4	2505.8	3.1584	-0.591	1.3973	3.065	1.849
1e+13	2489.5	2500.7	2514.4	12.649	2491.7	2502.1	2517.2	13.333	-0.46	1.4907	2.75	1.713

# Device Test: 11.46 UJET8J(KCL\_3A\_CH4\_UJET8J)

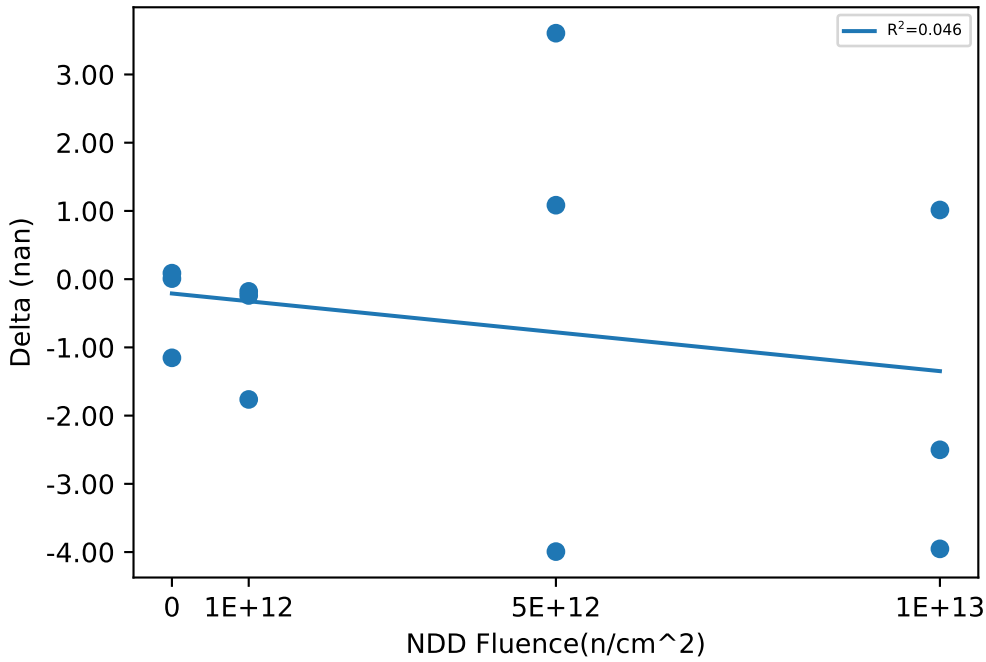
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2525	2524.8	-0.179
2	1e+12	NDD, unbiased	2553.2	2551.4	-1.763
3	1e+12	NDD, unbiased	2518.3	2518	-0.239
4	5e+12	NDD, unbiased	2471.5	2472.6	1.084
5	5e+12	NDD, unbiased	2468	2471.6	3.605
6	5e+12	NDD, unbiased	2498.1	2494.1	-3.993
7	1e+13	NDD, unbiased	2481.5	2479	-2.501
8	1e+13	NDD, unbiased	2496.4	2497.4	1.014
9	1e+13	NDD, unbiased	2512.2	2508.3	-3.953
10	0	correlation	2562.4	2561.3	-1.153
11	0	correlation	2544.7	2544.8	0.088
12	0	correlation	2527.1	2527.1	0.008

## NDD vs Post - Pre Exposure Delta

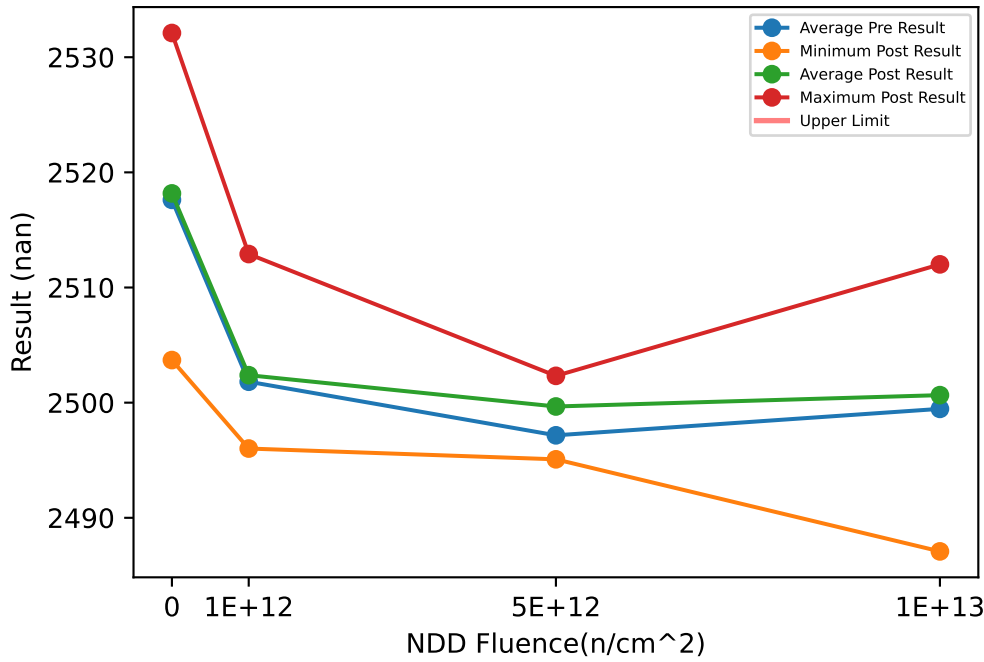


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2527.1	2544.8	2562.4	17.652	2527.1	2544.4	2561.3	17.075	-1.153	-0.35233	0.088	0.69455
1e+12	2518.3	2532.1	2553.2	18.511	2518	2531.4	2551.4	17.635	-1.763	-0.727	-0.179	0.8977
5e+12	2468	2479.2	2498.1	16.455	2471.6	2479.4	2494.1	12.709	-3.993	0.232	3.605	3.87
1e+13	2481.5	2496.7	2512.2	15.352	2479	2494.9	2508.3	14.779	-3.953	-1.8133	1.014	2.5539

# Device Test: 11.47 UJET8J(KCL\_4A\_CH1\_UJET8J)

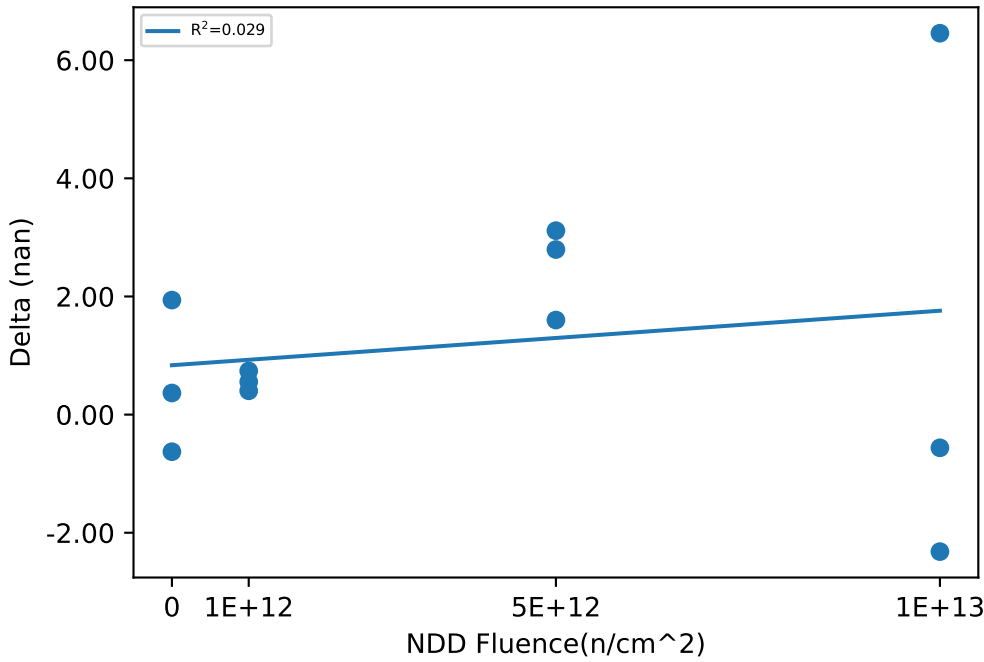
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2495.3	2496	0.739
2	1e+12	NDD, unbiased	2497.7	2498.2	0.556
3	1e+12	NDD, unbiased	2512.5	2512.9	0.403
4	5e+12	NDD, unbiased	2500.7	2502.3	1.601
5	5e+12	NDD, unbiased	2498.8	2501.6	2.795
6	5e+12	NDD, unbiased	2492	2495.1	3.114
7	1e+13	NDD, unbiased	2489.4	2487.1	-2.319
8	1e+13	NDD, unbiased	2505.6	2512	6.457
9	1e+13	NDD, unbiased	2503.4	2502.9	-0.562
10	0	correlation	2532.7	2532.1	-0.628
11	0	correlation	2501.8	2503.7	1.939
12	0	correlation	2518.3	2518.7	0.366

## NDD vs Post - Pre Exposure Delta

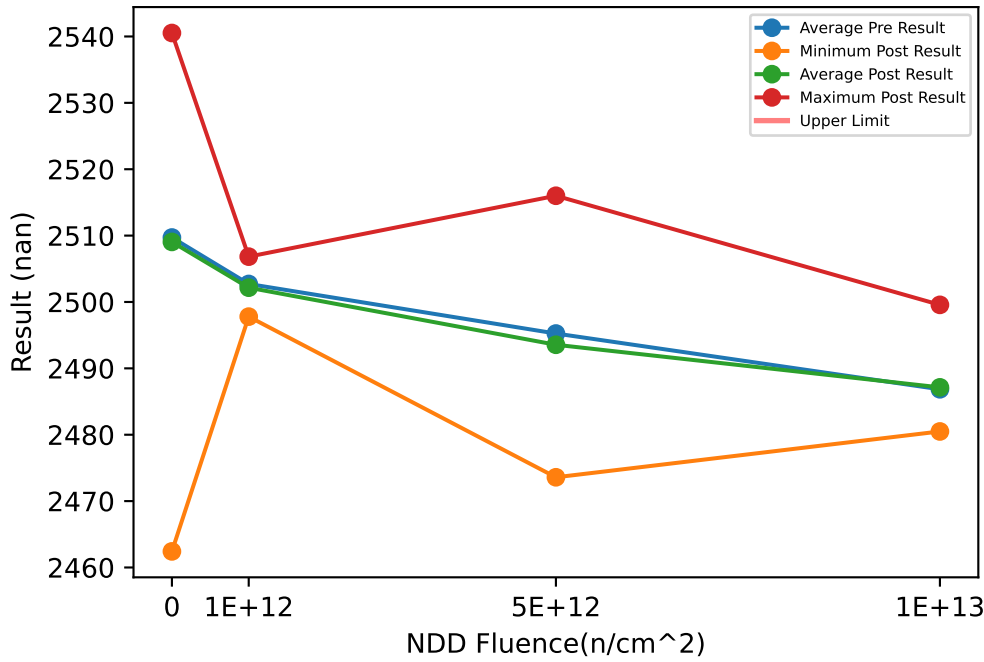


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2501.8	2517.6	2532.7	15.499	2503.7	2518.2	2532.1	14.21	-0.628	0.559	1.939	1.2943
1e+12	2495.3	2501.8	2512.5	9.3301	2496	2502.4	2512.9	9.1786	0.403	0.566	0.739	0.16822
5e+12	2492	2497.2	2500.7	4.6044	2495.1	2499.7	2502.3	3.9905	1.601	2.5033	3.114	0.79756
1e+13	2489.4	2499.5	2505.6	8.7759	2487.1	2500.7	2512	12.61	-2.319	1.192	6.457	4.6435

# Device Test: 11.48 UJET8J(KCL\_4A\_CH2\_UJET8J)

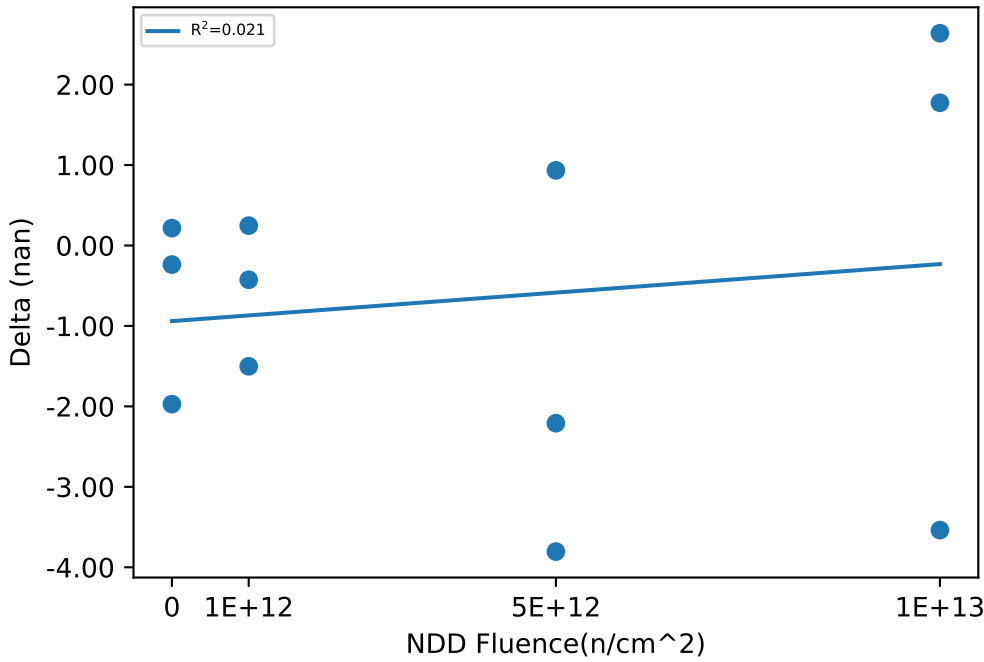
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2497.5	2497.8	0.247
2	1e+12	NDD, unbiased	2503.3	2501.8	-1.502
3	1e+12	NDD, unbiased	2507.3	2506.8	-0.426
4	5e+12	NDD, unbiased	2518.2	2516	-2.209
5	5e+12	NDD, unbiased	2494.9	2491.1	-3.805
6	5e+12	NDD, unbiased	2472.7	2473.6	0.934
7	1e+13	NDD, unbiased	2503.1	2499.6	-3.538
8	1e+13	NDD, unbiased	2477.9	2480.5	2.639
9	1e+13	NDD, unbiased	2479.6	2481.4	1.774
10	0	correlation	2542.5	2540.5	-1.972
11	0	correlation	2524.4	2524.2	-0.237
12	0	correlation	2462.2	2462.4	0.216

## NDD vs Post - Pre Exposure Delta

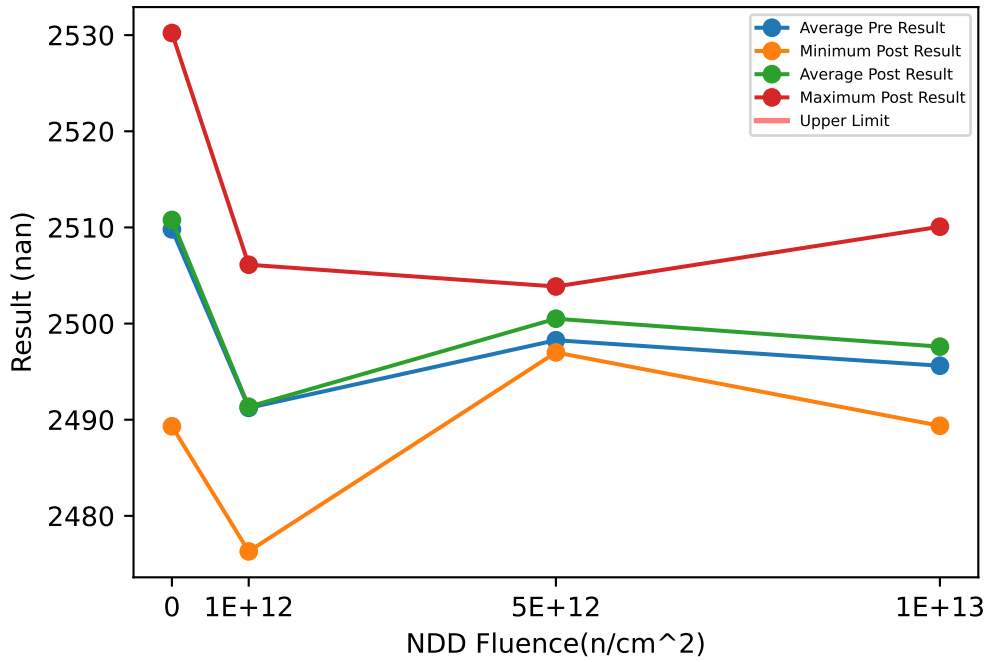


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2462.2	2509.7	2542.5	42.12	2462.4	2509	2540.5	41.195	-1.972	-0.66433	0.216	1.1549
1e+12	2497.5	2502.7	2507.3	4.8853	2497.8	2502.2	2506.8	4.5267	-1.502	-0.56033	0.247	0.8822
5e+12	2472.7	2495.2	2518.2	22.78	2473.6	2493.6	2516	21.316	-3.805	-1.6933	0.934	2.4112
1e+13	2477.9	2486.8	2503.1	14.106	2480.5	2487.1	2499.6	10.772	-3.538	0.29167	2.639	3.3447

# Device Test: 11.49 UJET8J(KCL\_4A\_CH3\_UJET8J)

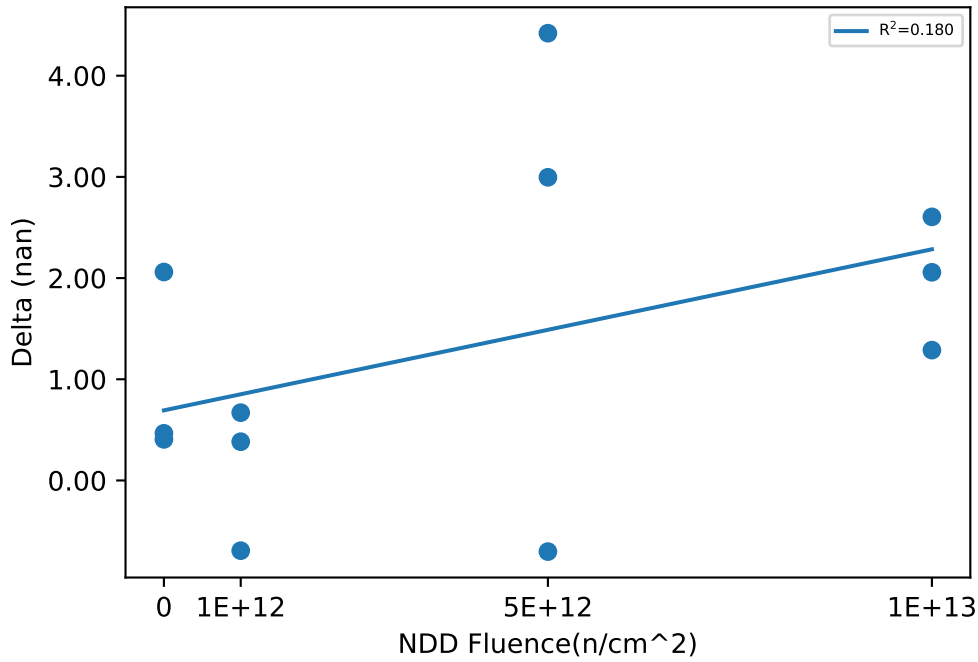
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2505.5	2506.1	0.67
2	1e+12	NDD, unbiased	2491.2	2491.6	0.383
3	1e+12	NDD, unbiased	2477	2476.3	-0.694
4	5e+12	NDD, unbiased	2500.9	2503.9	2.996
5	5e+12	NDD, unbiased	2497.7	2497	-0.703
6	5e+12	NDD, unbiased	2496.2	2500.7	4.42
7	1e+13	NDD, unbiased	2508	2510.1	2.057
8	1e+13	NDD, unbiased	2492.1	2493.4	1.288
9	1e+13	NDD, unbiased	2486.8	2489.4	2.605
10	0	correlation	2512.3	2512.8	0.466
11	0	correlation	2529.8	2530.2	0.406
12	0	correlation	2487.3	2489.3	2.06

## NDD vs Post - Pre Exposure Delta

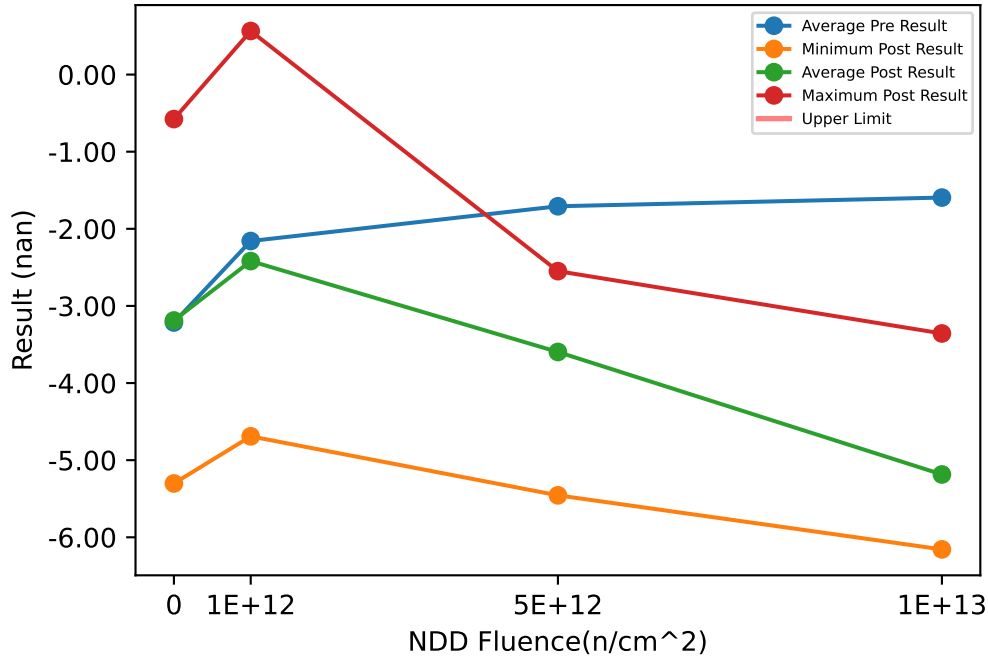


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2487.3	2509.8	2529.8	21.391	2489.3	2510.8	2530.2	20.526	0.406	0.97733	2.06	0.9381
1e+12	2477	2491.2	2505.5	14.226	2476.3	2491.4	2506.1	14.909	-0.694	0.11967	0.67	0.71912
5e+12	2496.2	2498.3	2500.9	2.3603	2497	2500.5	2503.9	3.4307	-0.703	2.2377	4.42	2.6443
1e+13	2486.8	2495.6	2508	11.062	2489.4	2497.6	2510.1	10.986	1.288	1.9833	2.605	0.66158

# Device Test: 11.5 UJ9ZQ5(dCLR\_P25A\_CH3\_UJ9ZQ5)

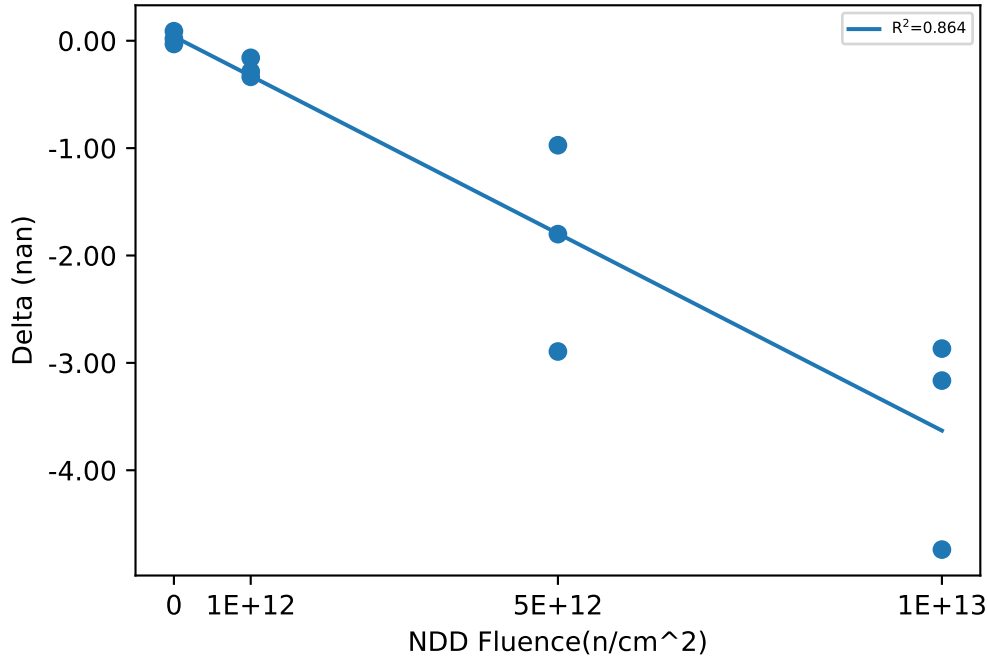
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.851	0.565	-0.286
2	1e+12	NDD, unbiased	-4.532	-4.691	-0.159
3	1e+12	NDD, unbiased	-2.794	-3.13	-0.336
4	5e+12	NDD, unbiased	-2.562	-5.456	-2.894
5	5e+12	NDD, unbiased	-0.748	-2.549	-1.801
6	5e+12	NDD, unbiased	-1.813	-2.786	-0.973
7	1e+13	NDD, unbiased	-0.49	-3.357	-2.867
8	1e+13	NDD, unbiased	-1.418	-6.157	-4.739
9	1e+13	NDD, unbiased	-2.877	-6.042	-3.165
10	0	correlation	-0.666	-0.577	0.089
11	0	correlation	-3.657	-3.687	-0.03
12	0	correlation	-5.321	-5.302	0.019

## NDD vs Post - Pre Exposure Delta

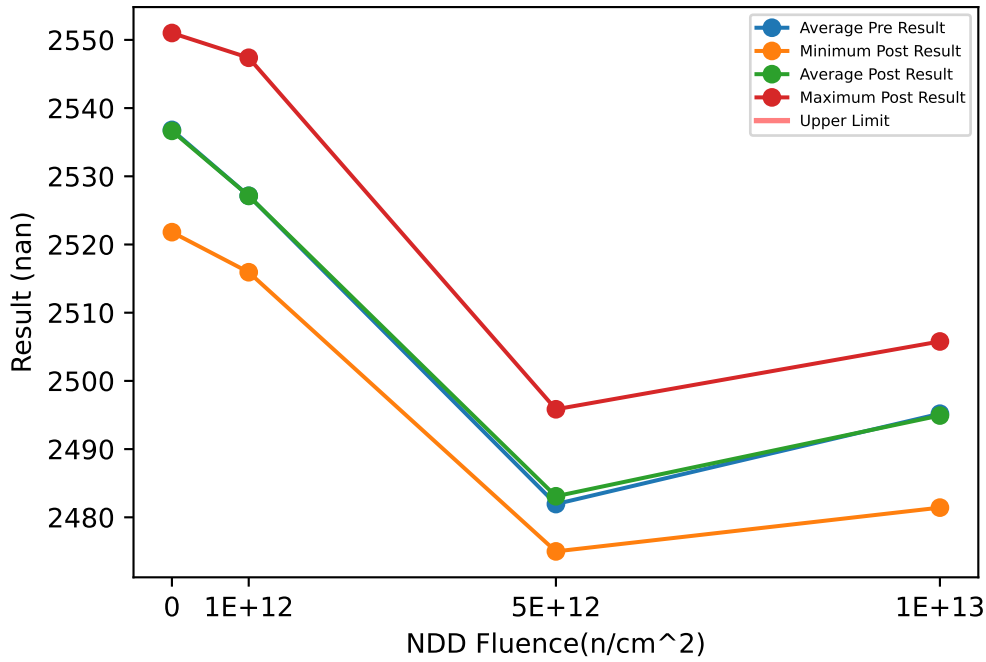


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-5.321	-3.2147	-0.666	2.3588	-5.302	-3.1887	-0.577	2.4016	-0.03	0.026	0.089	0.059808
1e+12	-4.532	-2.1583	0.851	2.7472	-4.691	-2.4187	0.565	2.6992	-0.336	-0.26033	-0.159	0.091249
5e+12	-2.562	-1.7077	-0.748	0.91158	-5.456	-3.597	-2.549	1.6143	-2.894	-1.8893	-0.973	0.96354
1e+13	-2.877	-1.595	-0.49	1.2033	-6.157	-5.1853	-3.357	1.5844	-4.739	-3.5903	-2.867	1.0059

# Device Test: 11.50 UJET8J(KCL\_4A\_CH4\_UJET8J)

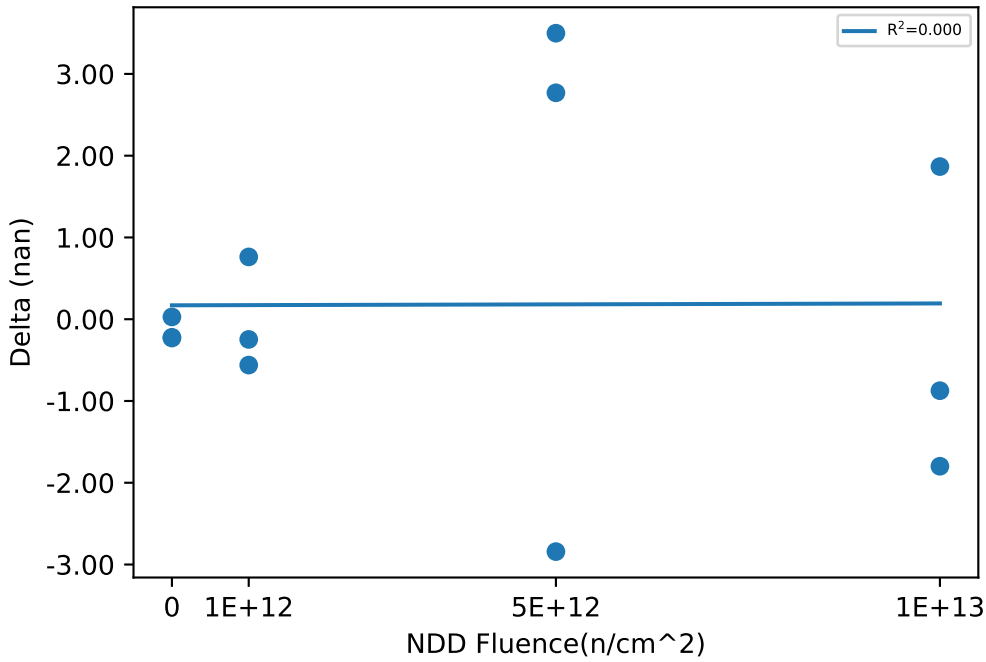
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2518.6	2518.1	-0.561
2	1e+12	NDD, unbiased	2547.6	2547.4	-0.247
3	1e+12	NDD, unbiased	2515.2	2515.9	0.762
4	5e+12	NDD, unbiased	2472.2	2475	2.769
5	5e+12	NDD, unbiased	2474.9	2478.4	3.498
6	5e+12	NDD, unbiased	2498.7	2495.8	-2.842
7	1e+13	NDD, unbiased	2482.3	2481.4	-0.874
8	1e+13	NDD, unbiased	2495.7	2497.6	1.867
9	1e+13	NDD, unbiased	2507.6	2505.8	-1.798
10	0	correlation	2551.2	2551	-0.221
11	0	correlation	2537.4	2537.2	-0.23
12	0	correlation	2521.8	2521.8	0.028

## NDD vs Post - Pre Exposure Delta



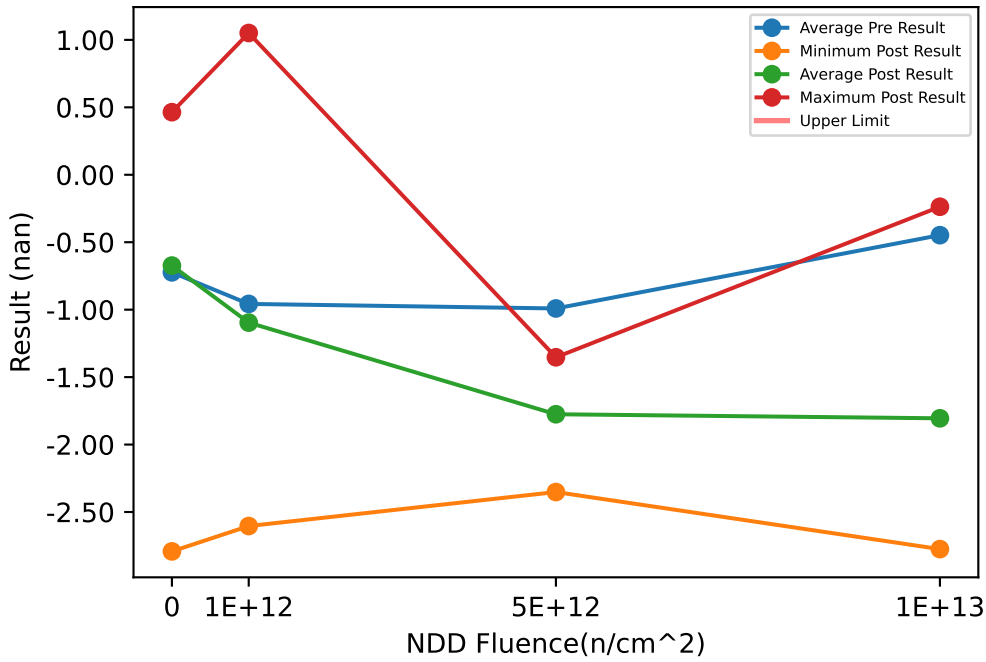
## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2521.8	2536.8	2551.2	14.734	2521.8	2536.7	2551	14.608	-0.23	-0.141	0.028	0.14643
1e+12	2515.2	2527.1	2547.6	17.823	2515.9	2527.1	2547.4	17.571	-0.561	-0.015333	0.762	0.69126
5e+12	2472.2	2481.9	2498.7	14.558	2475	2483.1	2495.8	11.177	-2.842	1.1417	3.498	3.4692
1e+13	2482.3	2495.2	2507.6	12.651	2481.4	2494.9	2505.8	12.394	-1.798	-0.26833	1.867	1.9061



# Device Test: 11.6 UJSYNT(dCLR\_P5A\_CH3\_UJSYNT)

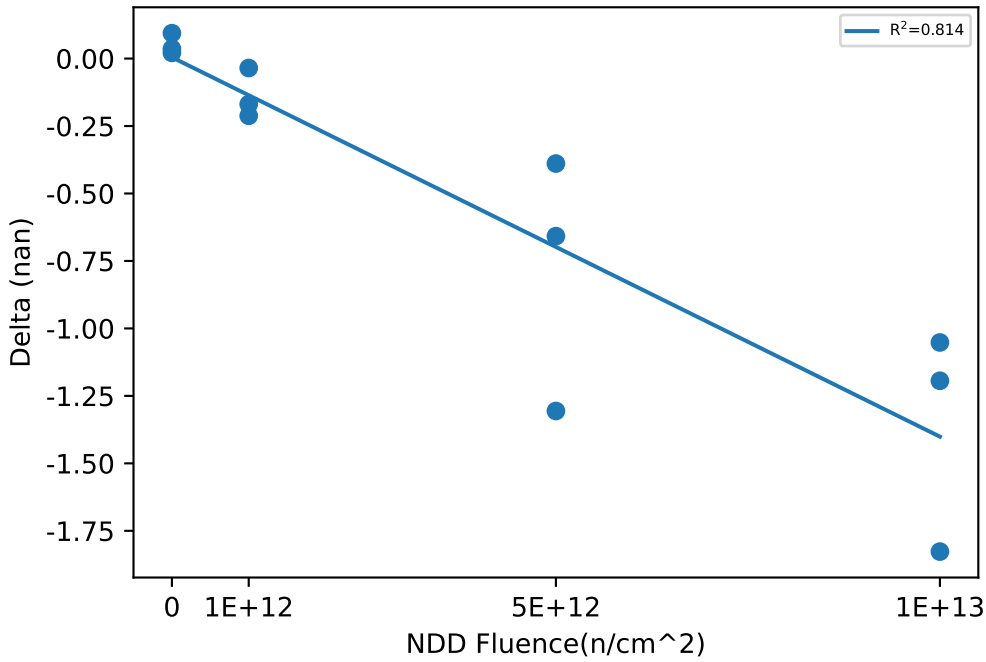
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.086	1.051	-0.035
2	1e+12	NDD, unbiased	-2.392	-2.604	-0.212
3	1e+12	NDD, unbiased	-1.566	-1.735	-0.169
4	5e+12	NDD, unbiased	-1.046	-2.352	-1.306
5	5e+12	NDD, unbiased	-0.695	-1.353	-0.658
6	5e+12	NDD, unbiased	-1.232	-1.621	-0.389
7	1e+13	NDD, unbiased	0.815	-0.237	-1.052
8	1e+13	NDD, unbiased	-0.577	-2.404	-1.827
9	1e+13	NDD, unbiased	-1.581	-2.775	-1.194
10	0	correlation	0.37	0.464	0.094
11	0	correlation	0.273	0.309	0.036
12	0	correlation	-2.813	-2.792	0.021

## NDD vs Post - Pre Exposure Delta

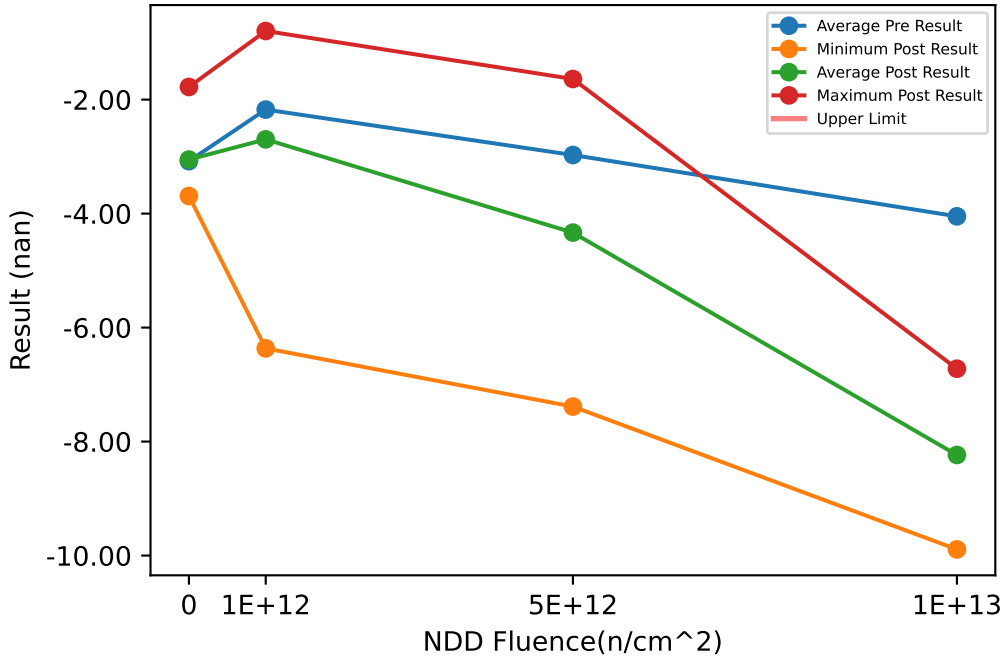


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2.813	-0.72333	0.37	1.8104	-2.792	-0.673	0.464	1.8367	0.021	0.050333	0.094	0.038553
1e+12	-2.392	-0.95733	1.086	1.8171	-2.604	-1.096	1.051	1.9094	-0.212	-0.13867	-0.035	0.092316
5e+12	-1.232	-0.991	-0.695	0.27269	-2.352	-1.7753	-1.353	0.51707	-1.306	-0.78433	-0.389	0.47137
1e+13	-1.581	-0.44767	0.815	1.2032	-2.775	-1.8053	-0.237	1.3708	-1.827	-1.3577	-1.052	0.41261

# Device Test: 11.7 UJ9ZQ5(dCLR\_P25A\_CH4\_UJ9ZQ5)

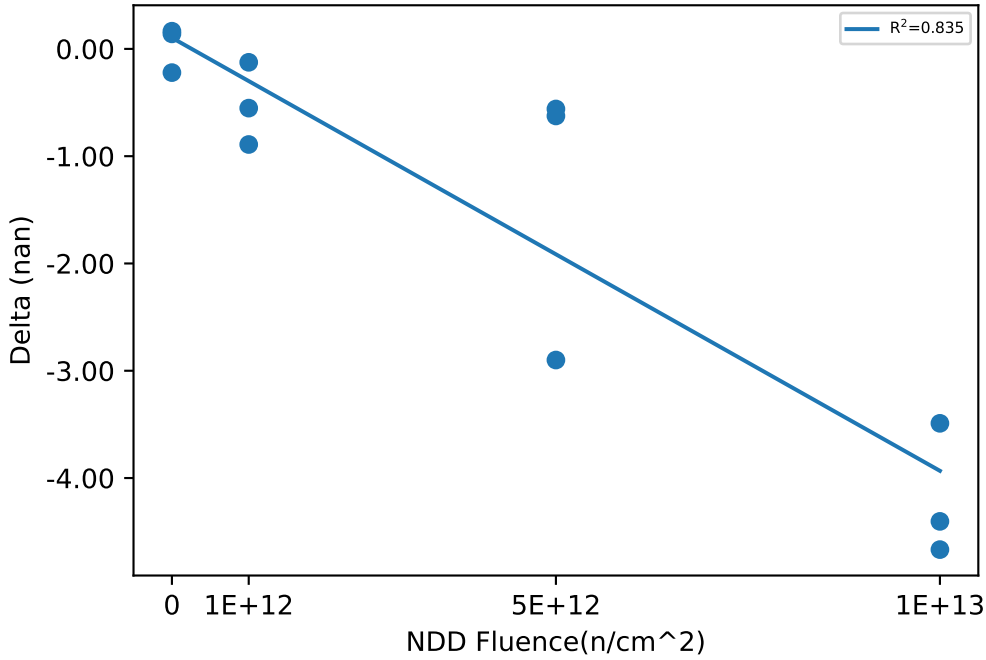
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-5.474	-6.365	-0.891
2	1e+12	NDD, unbiased	-0.244	-0.796	-0.552
3	1e+12	NDD, unbiased	-0.806	-0.931	-0.125
4	5e+12	NDD, unbiased	-1.078	-1.638	-0.56
5	5e+12	NDD, unbiased	-6.761	-7.386	-0.625
6	5e+12	NDD, unbiased	-1.077	-3.977	-2.9
7	1e+13	NDD, unbiased	-3.424	-8.091	-4.667
8	1e+13	NDD, unbiased	-3.232	-6.722	-3.49
9	1e+13	NDD, unbiased	-5.488	-9.892	-4.404
10	0	correlation	-3.856	-3.691	0.165
11	0	correlation	-1.918	-1.778	0.14
12	0	correlation	-3.466	-3.687	-0.221

## NDD vs Post - Pre Exposure Delta

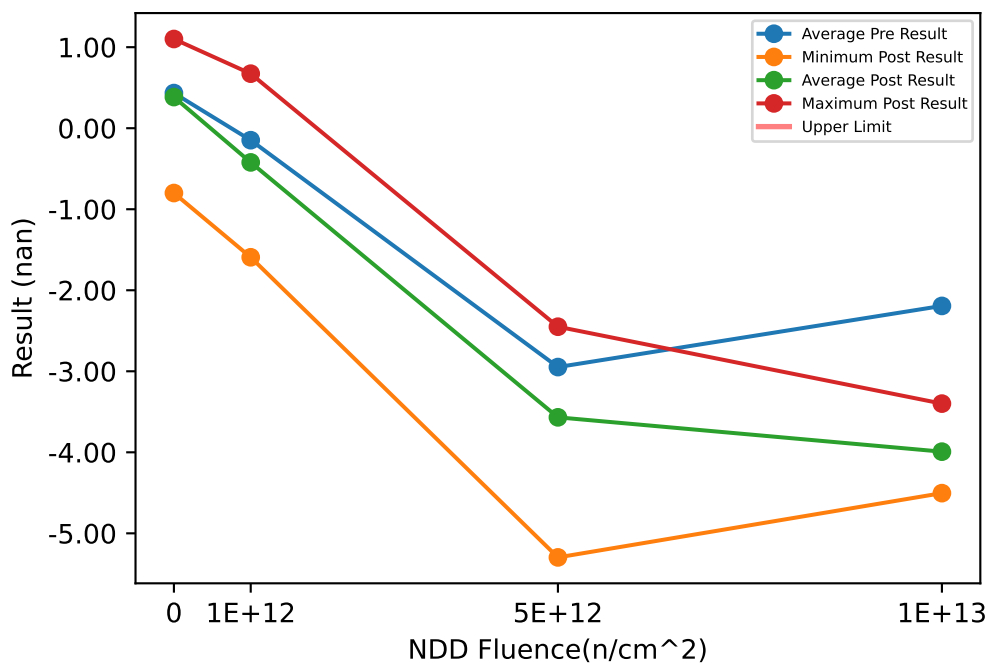


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-3.856	-3.08	-1.918	1.025	-3.691	-3.052	-1.778	1.1033	-0.221	0.028	0.165	0.216
1e+12	-5.474	-2.1747	-0.244	2.8711	-6.365	-2.6973	-0.796	3.177	-0.891	-0.52267	-0.125	0.38384
5e+12	-6.761	-2.972	-1.077	3.2814	-7.386	-4.3337	-1.638	2.8906	-2.9	-1.3617	-0.56	1.3326
1e+13	-5.488	-4.048	-3.232	1.2508	-9.892	-8.235	-6.722	1.5899	-4.667	-4.187	-3.49	0.61778

# Device Test: 11.8 UJSYNT(dCLR\_P5A\_CH4\_UJSYNT)

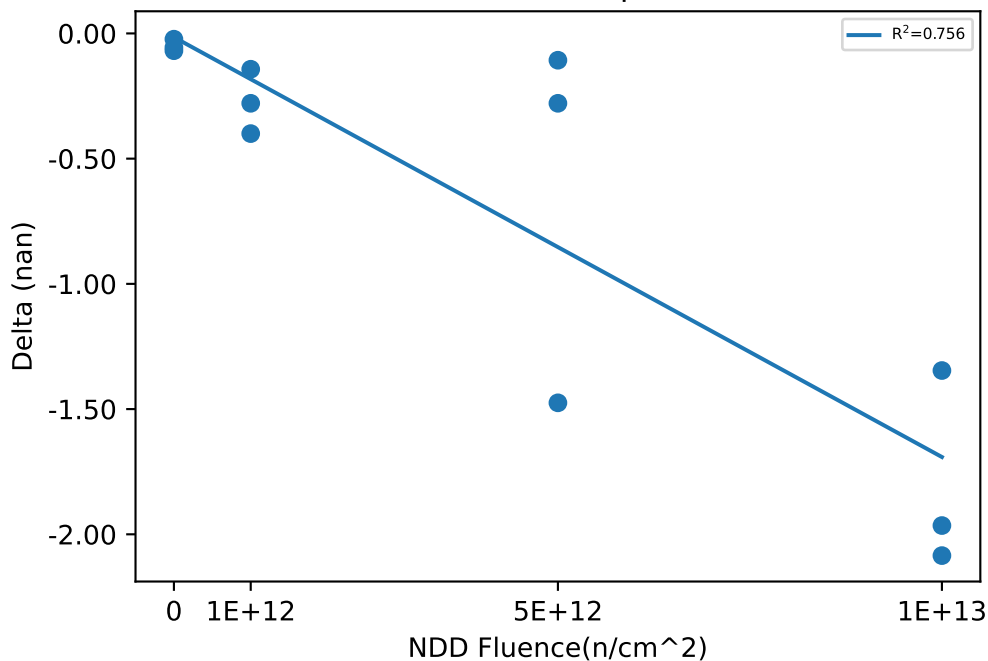
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-1.193	-1.593	-0.4
2	1e+12	NDD, unbiased	0.952	0.673	-0.279
3	1e+12	NDD, unbiased	-0.203	-0.346	-0.143
4	5e+12	NDD, unbiased	-2.343	-2.45	-0.107
5	5e+12	NDD, unbiased	-5.018	-5.297	-0.279
6	5e+12	NDD, unbiased	-1.483	-2.958	-1.475
7	1e+13	NDD, unbiased	-2.419	-4.504	-2.085
8	1e+13	NDD, unbiased	-2.053	-3.399	-1.346
9	1e+13	NDD, unbiased	-2.108	-4.073	-1.965
10	0	correlation	0.875	0.852	-0.023
11	0	correlation	1.157	1.101	-0.056
12	0	correlation	-0.731	-0.8	-0.069

## NDD vs Post - Pre Exposure Delta

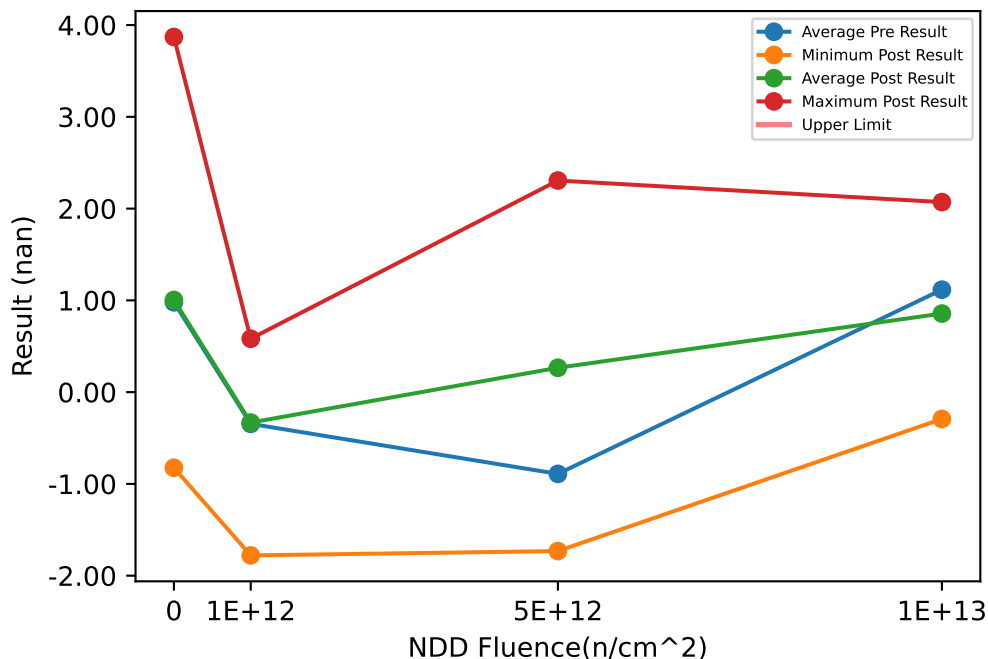


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.731	0.43367	1.157	1.0184	-0.8	0.38433	1.101	1.0332	-0.069	-0.049333	-0.023	0.023714
1e+12	-1.193	-0.148	0.952	1.0736	-1.593	-0.422	0.673	1.1349	-0.4	-0.274	-0.143	0.12857
5e+12	-5.018	-2.948	-1.483	1.8435	-5.297	-3.5683	-2.45	1.5185	-1.475	-0.62033	-0.107	0.74514
1e+13	-2.419	-2.1933	-2.053	0.19736	-4.504	-3.992	-3.399	0.55694	-2.085	-1.7987	-1.346	0.39659

# Device Test: 11.9 UJPX6I(Delta\_dCLR\_P5A\_CH1CH2\_UJPX6I)

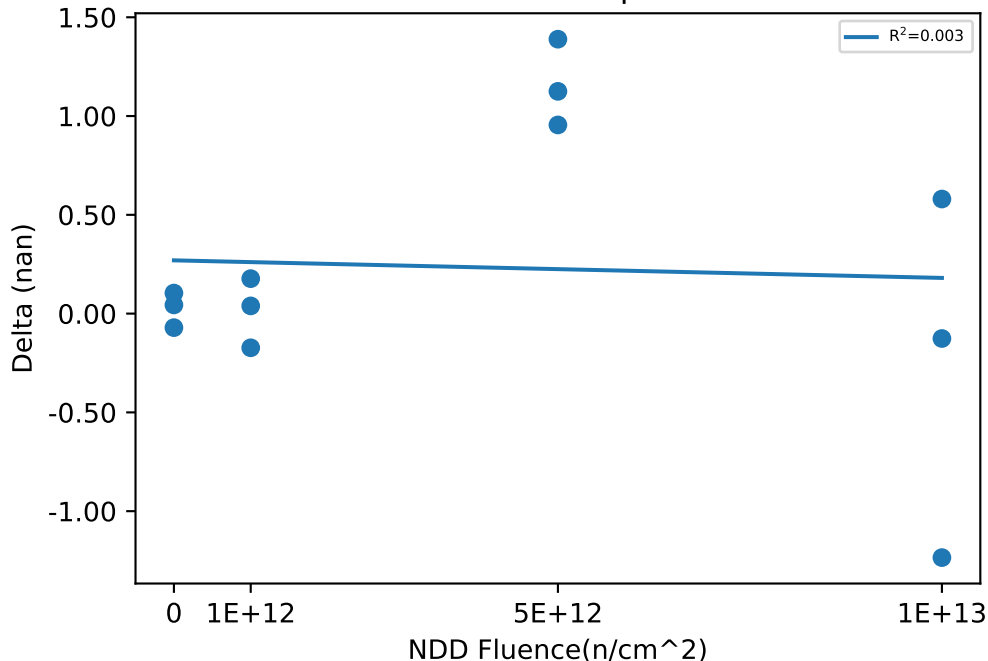
## NDD vs Result Stats



## Test Results (No Limits Specified (nan))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.376	0.203	-0.173
2	1e+12	NDD, unbiased	-1.956	-1.779	0.177
3	1e+12	NDD, unbiased	0.543	0.582	0.039
4	5e+12	NDD, unbiased	-2.857	-1.732	1.125
5	5e+12	NDD, unbiased	0.917	2.306	1.389
6	5e+12	NDD, unbiased	-0.732	0.223	0.955
7	1e+13	NDD, unbiased	0.916	0.79	-0.126
8	1e+13	NDD, unbiased	1.491	2.071	0.58
9	1e+13	NDD, unbiased	0.943	-0.292	-1.235
10	0	correlation	-0.077	-0.033	0.044
11	0	correlation	-0.753	-0.824	-0.071
12	0	correlation	3.766	3.87	0.104

## NDD vs Post - Pre Exposure Delta

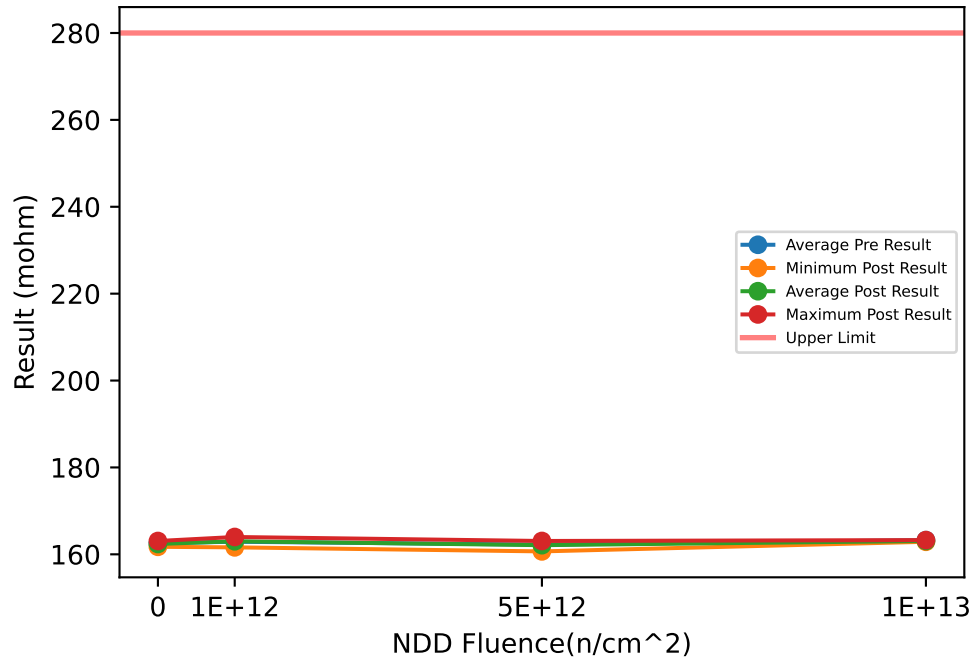


## Test Statistics (nan)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.753	0.97867	3.766	2.4375	-0.824	1.0043	3.87	2.5131	-0.071	0.025667	0.104	0.088929
1e+12	-1.956	-0.34567	0.543	1.3971	-1.779	-0.33133	0.582	1.268	-0.173	0.014333	0.177	0.1763
5e+12	-2.857	-0.89067	0.917	1.892	-1.732	0.26567	2.306	2.0193	0.955	1.1563	1.389	0.21869
1e+13	0.916	1.1167	1.491	0.32446	-0.292	0.85633	2.071	1.1829	-1.235	-0.26033	0.58	0.91493

# Device Test: 12.1 UJ4ZR4(RDSON\_5V\_OUT1\_UJE410\_UJ4ZR4)

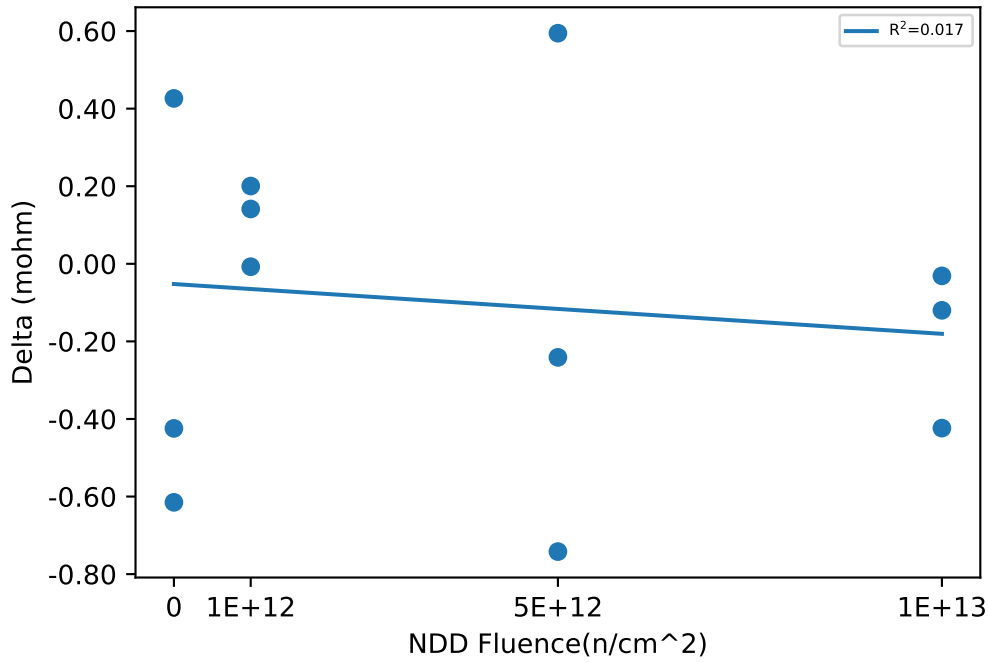
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	161.46	161.6	0.1414
2	1e+12	NDD, unbiased	163.79	163.99	0.2005
3	1e+12	NDD, unbiased	163.43	163.42	-0.0075
4	5e+12	NDD, unbiased	160.91	160.67	-0.2412
5	5e+12	NDD, unbiased	161.97	162.57	0.5945
6	5e+12	NDD, unbiased	163.81	163.07	-0.7419
7	1e+13	NDD, unbiased	163.48	163.06	-0.4236
8	1e+13	NDD, unbiased	163.31	163.28	-0.0311
9	1e+13	NDD, unbiased	163.01	162.89	-0.1199
10	0	correlation	162.96	162.34	-0.6149
11	0	correlation	162.64	163.06	0.4264
12	0	correlation	162.15	161.73	-0.4243

## NDD vs Post - Pre Exposure Delta

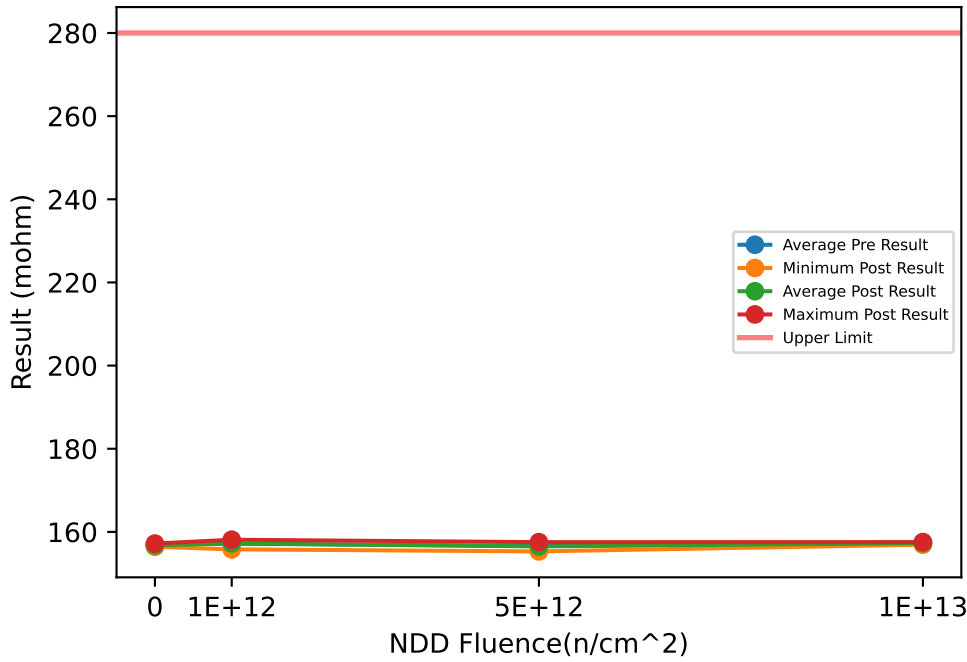


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	162.15	162.58	162.96	0.40375	161.73	162.38	163.06	0.66803	-0.6149	-0.20427	0.4264	0.55443
1e+12	161.46	162.89	163.79	1.2531	161.6	163	163.99	1.2471	-0.0075	0.11147	0.2005	0.10718
5e+12	160.91	162.23	163.81	1.4672	160.67	162.1	163.07	1.2647	-0.7419	-0.12953	0.5945	0.67516
1e+13	163.01	163.26	163.48	0.23935	162.89	163.07	163.28	0.19562	-0.4236	-0.19153	-0.0311	0.20582

# Device Test: 12.10 UJ4ZR4(RDSON\_12V\_OUT3\_UJE410\_UJ4ZR4)

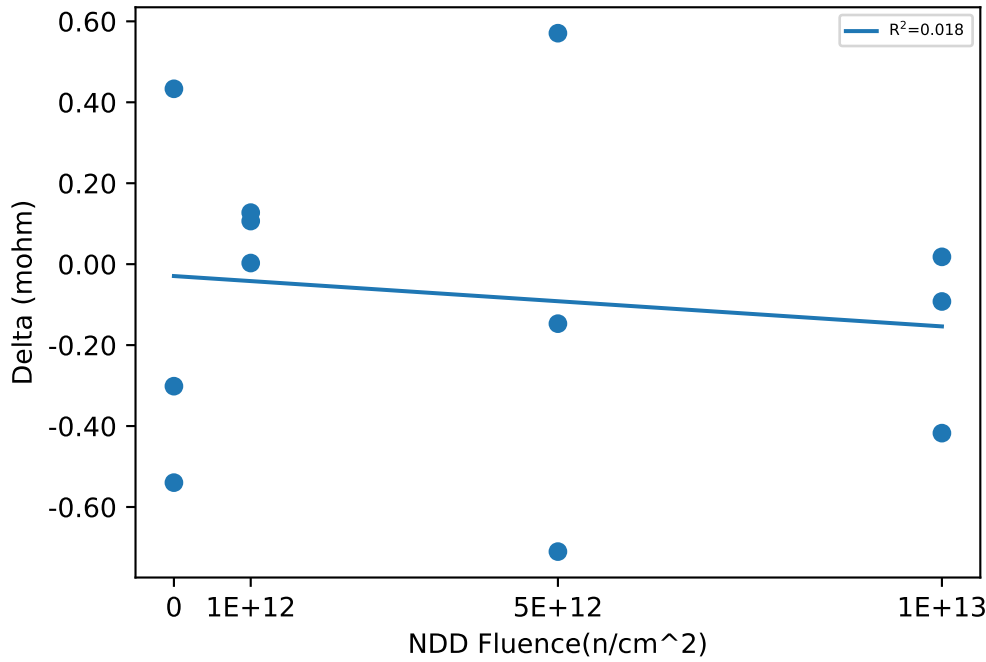
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	155.67	155.8	0.1274
2	1e+12	NDD, unbiased	157.69	157.8	0.1065
3	1e+12	NDD, unbiased	158.12	158.12	0.0028
4	5e+12	NDD, unbiased	155.46	155.31	-0.147
5	5e+12	NDD, unbiased	156.09	156.66	0.5707
6	5e+12	NDD, unbiased	158.24	157.53	-0.7102
7	1e+13	NDD, unbiased	157.86	157.44	-0.4175
8	1e+13	NDD, unbiased	156.9	156.92	0.0181
9	1e+13	NDD, unbiased	157.64	157.55	-0.0922
10	0	correlation	156.96	156.42	-0.5398
11	0	correlation	156.76	157.19	0.4333
12	0	correlation	156.98	156.68	-0.3015

## NDD vs Post - Pre Exposure Delta

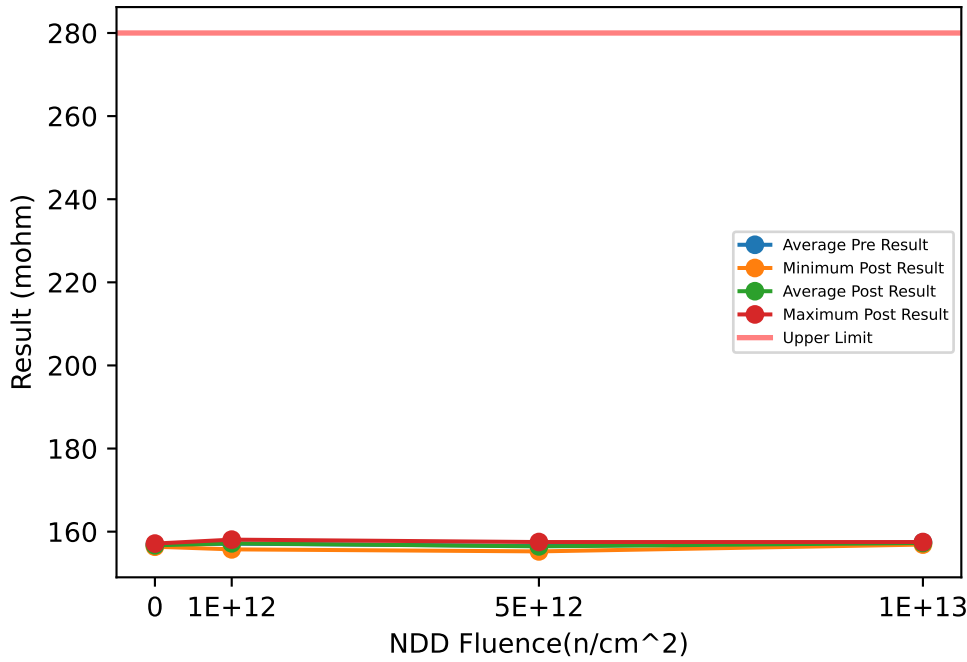


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	156.76	156.9	156.98	0.12394	156.42	156.76	157.19	0.39216	-0.5398	-0.136	0.4333	0.50722
1e+12	155.67	157.16	158.12	1.3049	155.8	157.24	158.12	1.2557	0.0028	0.0789	0.1274	0.066728
5e+12	155.46	156.6	158.24	1.4624	155.31	156.5	157.53	1.1213	-0.7102	-0.0955	0.5707	0.642
1e+13	156.9	157.47	157.86	0.50138	156.92	157.3	157.55	0.33626	-0.4175	-0.16387	0.0181	0.22647

# Device Test: 12.11 UJ4ZR4(RDSON\_28V\_OUT3\_UJE410\_UJ4ZR4)

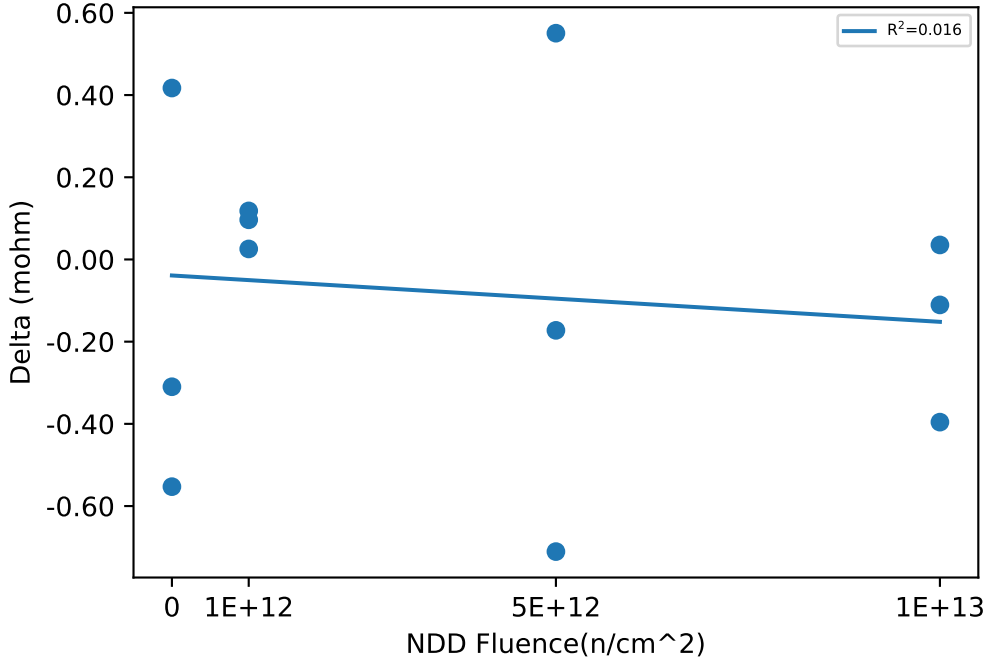
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	155.62	155.74	0.1181
2	1e+12	NDD, unbiased	157.65	157.75	0.0965
3	1e+12	NDD, unbiased	158.05	158.08	0.0256
4	5e+12	NDD, unbiased	155.42	155.25	-0.1725
5	5e+12	NDD, unbiased	156.06	156.61	0.5505
6	5e+12	NDD, unbiased	158.21	157.5	-0.7108
7	1e+13	NDD, unbiased	157.81	157.42	-0.3958
8	1e+13	NDD, unbiased	156.85	156.89	0.0353
9	1e+13	NDD, unbiased	157.61	157.5	-0.1106
10	0	correlation	156.93	156.38	-0.5528
11	0	correlation	156.71	157.13	0.4171
12	0	correlation	156.94	156.63	-0.3097

## NDD vs Post - Pre Exposure Delta

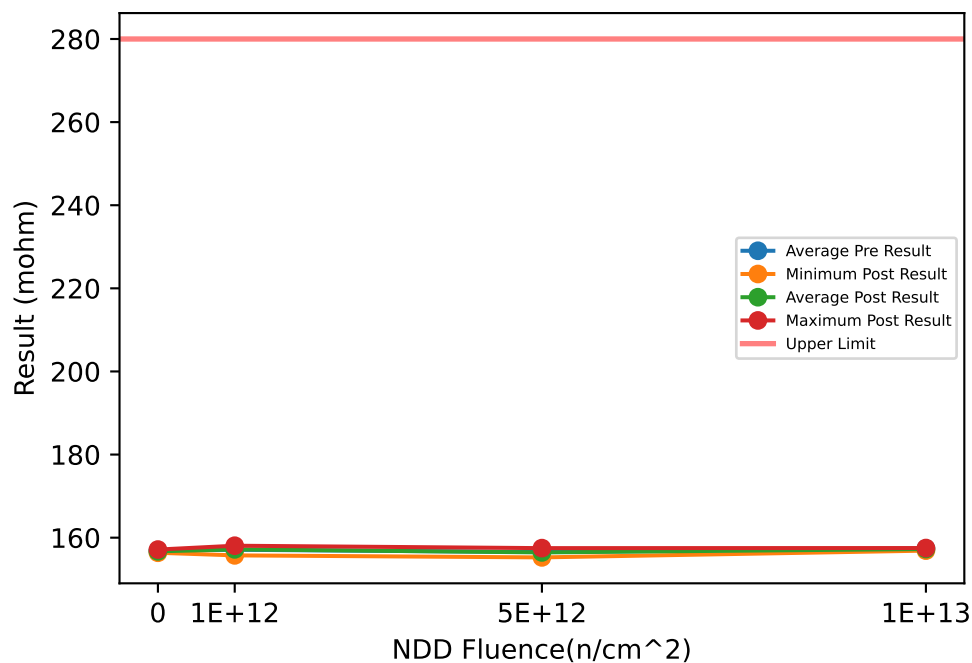


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	156.71	156.86	156.94	0.12702	156.38	156.71	157.13	0.38391	-0.5528	-0.14847	0.4171	0.50465
1e+12	155.62	157.11	158.05	1.3048	155.74	157.19	158.08	1.2671	0.0256	0.080067	0.1181	0.04839
5e+12	155.42	156.56	158.21	1.4644	155.25	156.45	157.5	1.1355	-0.7108	-0.11093	0.5505	0.6329
1e+13	156.85	157.43	157.81	0.50739	156.89	157.27	157.5	0.33334	-0.3958	-0.15703	0.0353	0.21927

# Device Test: 12.12 UJ4ZR4(RDSON\_32V\_OUT3\_UJE410\_UJ4ZR4)

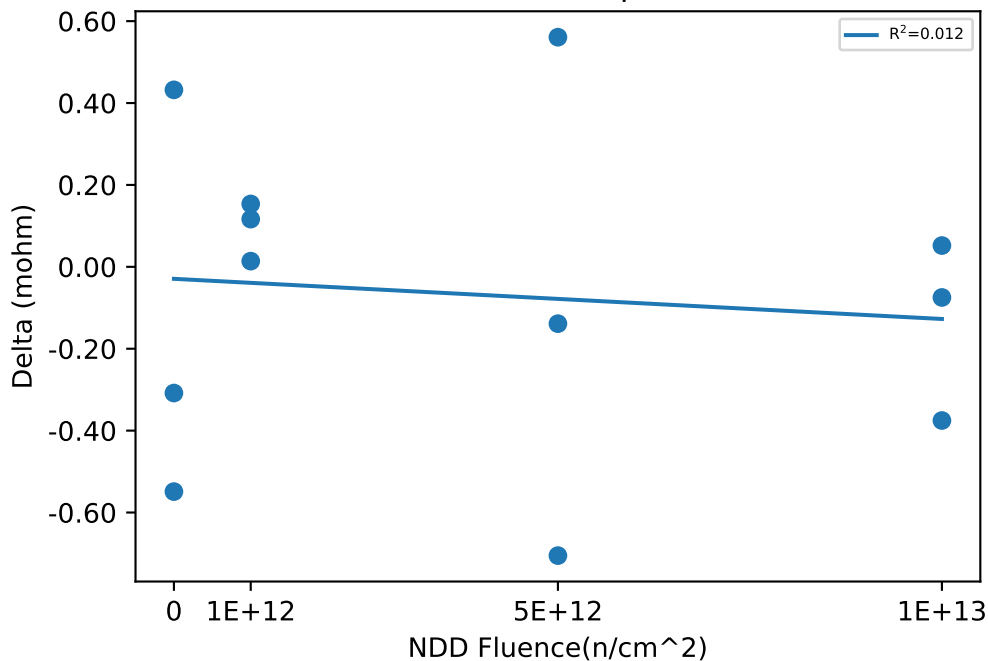
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	155.59	155.74	0.1536
2	1e+12	NDD, unbiased	157.63	157.75	0.1165
3	1e+12	NDD, unbiased	158.05	158.07	0.0139
4	5e+12	NDD, unbiased	155.39	155.25	-0.1388
5	5e+12	NDD, unbiased	156.05	156.61	0.5608
6	5e+12	NDD, unbiased	158.19	157.49	-0.7052
7	1e+13	NDD, unbiased	157.79	157.41	-0.3753
8	1e+13	NDD, unbiased	156.83	156.88	0.052
9	1e+13	NDD, unbiased	157.58	157.51	-0.0748
10	0	correlation	156.92	156.37	-0.5489
11	0	correlation	156.71	157.14	0.4322
12	0	correlation	156.93	156.62	-0.3082

## NDD vs Post - Pre Exposure Delta



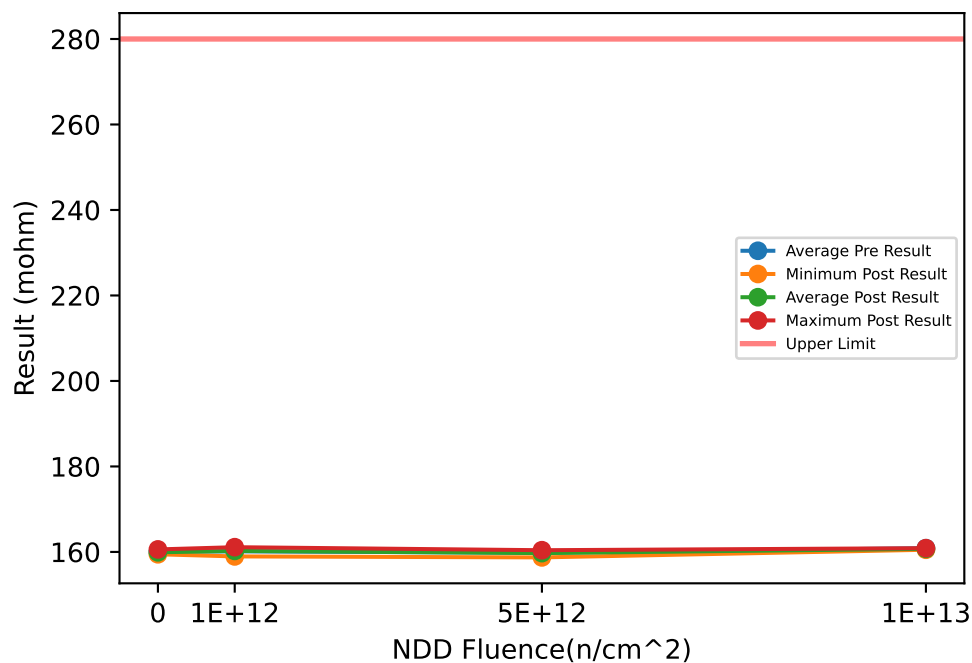
## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	156.71	156.85	156.93	0.12425	156.37	156.71	157.14	0.39346	-0.5489	-0.14163	0.4322	0.51132
1e+12	155.59	157.09	158.05	1.3187	155.74	157.19	158.07	1.2609	0.0139	0.094667	0.1536	0.072364
5e+12	155.39	156.54	158.19	1.4627	155.25	156.45	157.49	1.1246	-0.7052	-0.0944	0.5608	0.63417
1e+13	156.83	157.4	157.79	0.50305	156.88	157.27	157.51	0.33592	-0.3753	-0.1327	0.052	0.21946



# Device Test: 12.13 UJ4ZR4(RDSON\_5V\_OUT4\_UJE410\_UJ4ZR4)

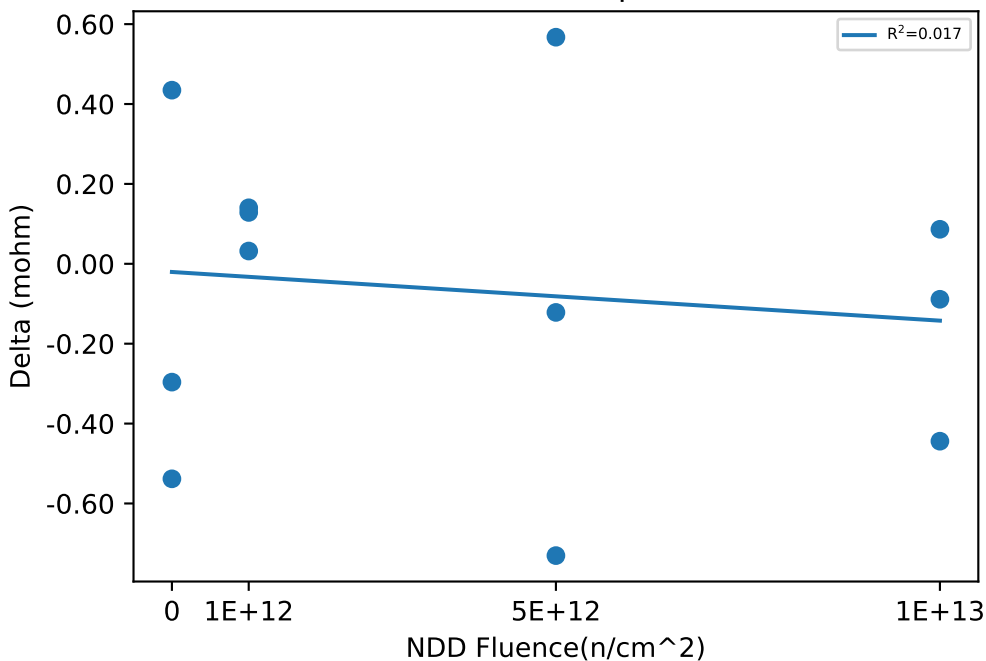
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	158.81	158.95	0.1402
2	1e+12	NDD, unbiased	160.53	160.66	0.1286
3	1e+12	NDD, unbiased	161.08	161.11	0.032
4	5e+12	NDD, unbiased	158.85	158.72	-0.1217
5	5e+12	NDD, unbiased	159.48	160.05	0.5673
6	5e+12	NDD, unbiased	161.14	160.41	-0.7305
7	1e+13	NDD, unbiased	160.95	160.51	-0.4441
8	1e+13	NDD, unbiased	160.79	160.88	0.0864
9	1e+13	NDD, unbiased	160.88	160.79	-0.0888
10	0	correlation	160.24	159.7	-0.5383
11	0	correlation	160.16	160.59	0.4347
12	0	correlation	159.75	159.45	-0.2962

## NDD vs Post - Pre Exposure Delta

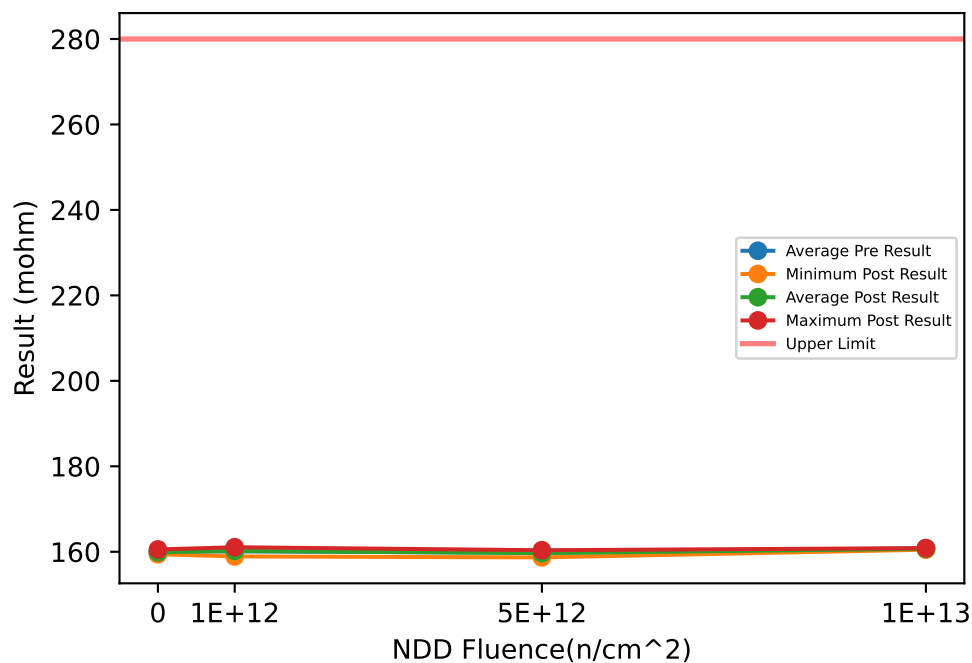


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	159.75	160.05	160.24	0.26247	159.45	159.91	160.59	0.59981	-0.5383	-0.13327	0.4347	0.50655
1e+12	158.81	160.14	161.08	1.1824	158.95	160.24	161.11	1.1381	0.032	0.10027	0.1402	0.059404
5e+12	158.85	159.82	161.14	1.1839	158.72	159.73	160.41	0.88623	-0.7305	-0.094967	0.5673	0.64931
1e+13	160.79	160.88	160.95	0.079394	160.51	160.73	160.88	0.19474	-0.4441	-0.14883	0.0864	0.2703

# Device Test: 12.14 UJ4ZR4(RDSON\_12V\_OUT4\_UJE410\_UJ4ZR4)

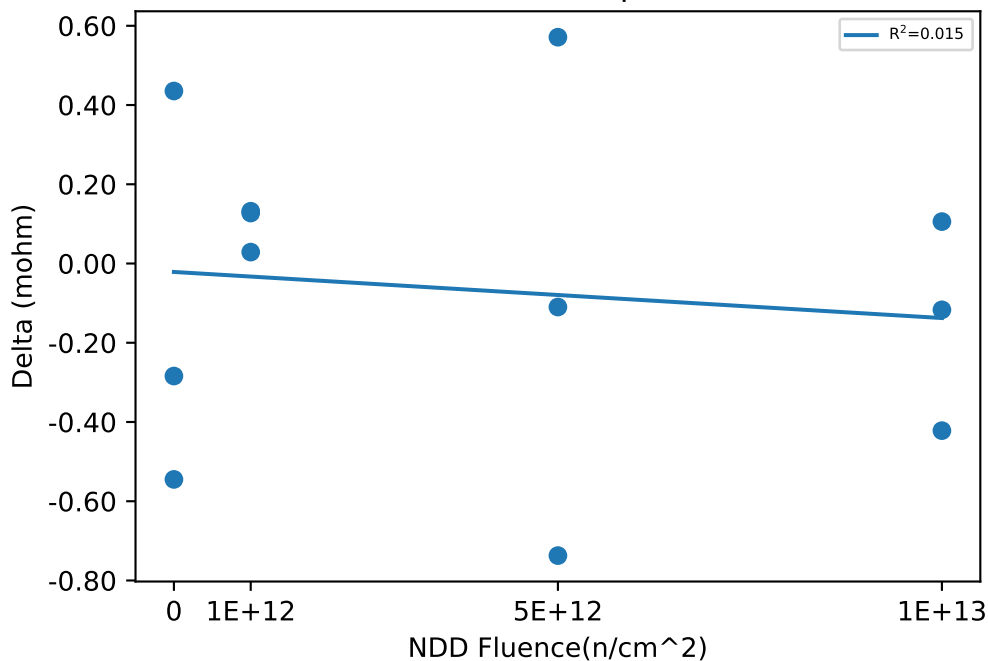
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	158.78	158.91	0.1274
2	1e+12	NDD, unbiased	160.49	160.62	0.132
3	1e+12	NDD, unbiased	161.03	161.06	0.0288
4	5e+12	NDD, unbiased	158.79	158.68	-0.1098
5	5e+12	NDD, unbiased	159.41	159.98	0.5712
6	5e+12	NDD, unbiased	161.1	160.36	-0.7372
7	1e+13	NDD, unbiased	160.91	160.49	-0.4218
8	1e+13	NDD, unbiased	160.75	160.85	0.1058
9	1e+13	NDD, unbiased	160.87	160.75	-0.1169
10	0	correlation	160.21	159.66	-0.5449
11	0	correlation	160.11	160.55	0.4354
12	0	correlation	159.71	159.42	-0.284

## NDD vs Post - Pre Exposure Delta

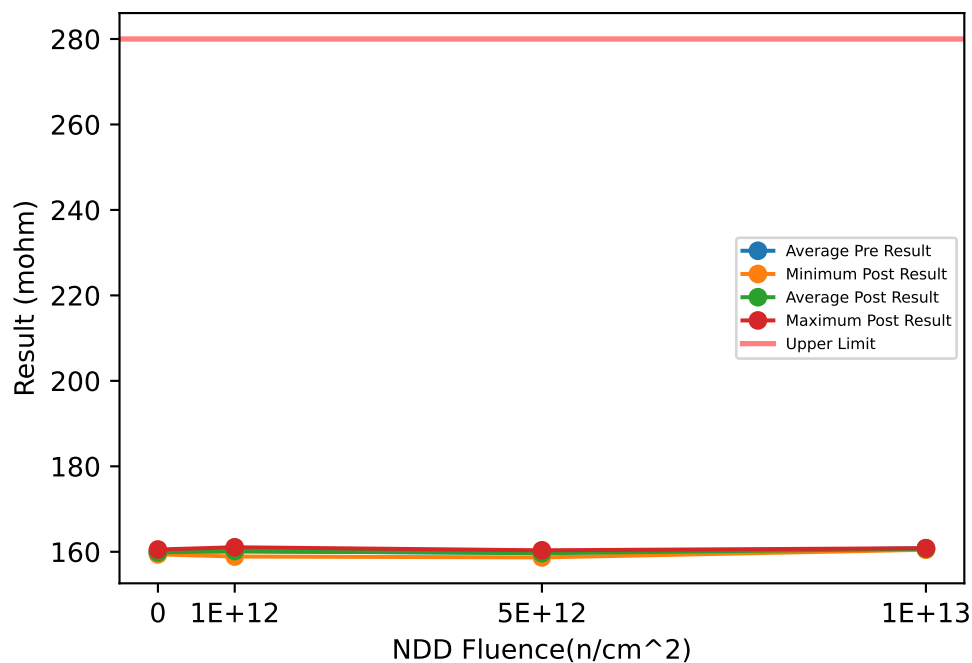


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	159.71	160.01	160.21	0.26544	159.42	159.88	160.55	0.59245	-0.5449	-0.13117	0.4354	0.50771
1e+12	158.78	160.1	161.03	1.1744	158.91	160.2	161.06	1.1369	0.0288	0.096067	0.132	0.0583
5e+12	158.79	159.77	161.1	1.194	158.68	159.68	160.36	0.88086	-0.7372	-0.091933	0.5712	0.65438
1e+13	160.75	160.84	160.91	0.084106	160.49	160.7	160.85	0.1895	-0.4218	-0.1443	0.1058	0.26487

# Device Test: 12.15 UJ4ZR4(RDSON\_28V\_OUT4\_UJE410\_UJ4ZR4)

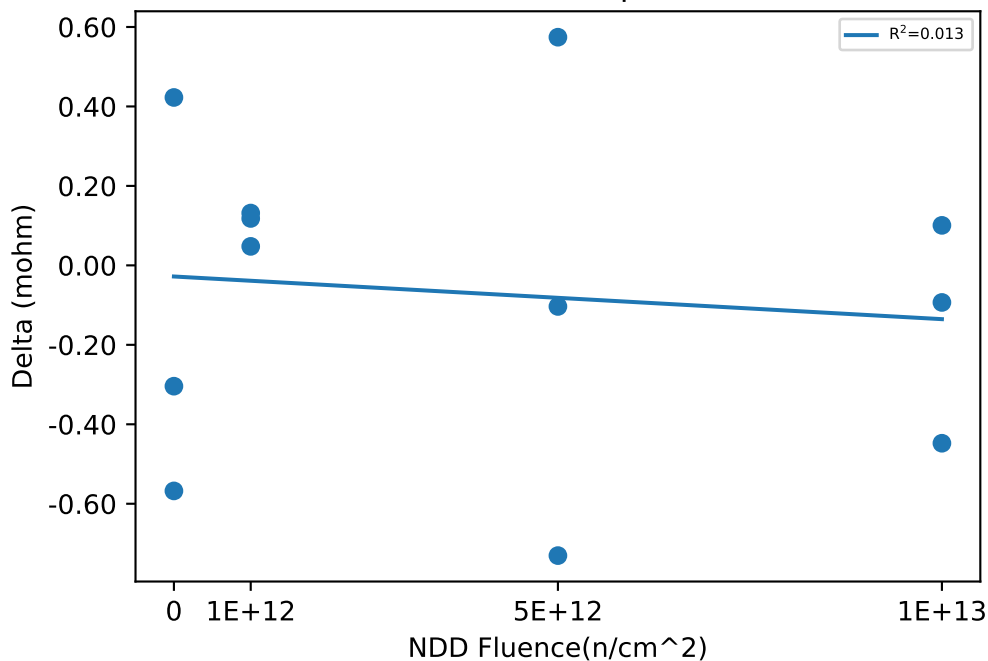
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	158.76	158.89	0.1317
2	1e+12	NDD, unbiased	160.47	160.58	0.1181
3	1e+12	NDD, unbiased	161.01	161.06	0.0478
4	5e+12	NDD, unbiased	158.79	158.69	-0.1034
5	5e+12	NDD, unbiased	159.41	159.98	0.5743
6	5e+12	NDD, unbiased	161.08	160.35	-0.7305
7	1e+13	NDD, unbiased	160.92	160.47	-0.4477
8	1e+13	NDD, unbiased	160.74	160.84	0.1007
9	1e+13	NDD, unbiased	160.84	160.75	-0.0933
10	0	correlation	160.19	159.62	-0.5677
11	0	correlation	160.11	160.53	0.4226
12	0	correlation	159.7	159.4	-0.3041

## NDD vs Post - Pre Exposure Delta

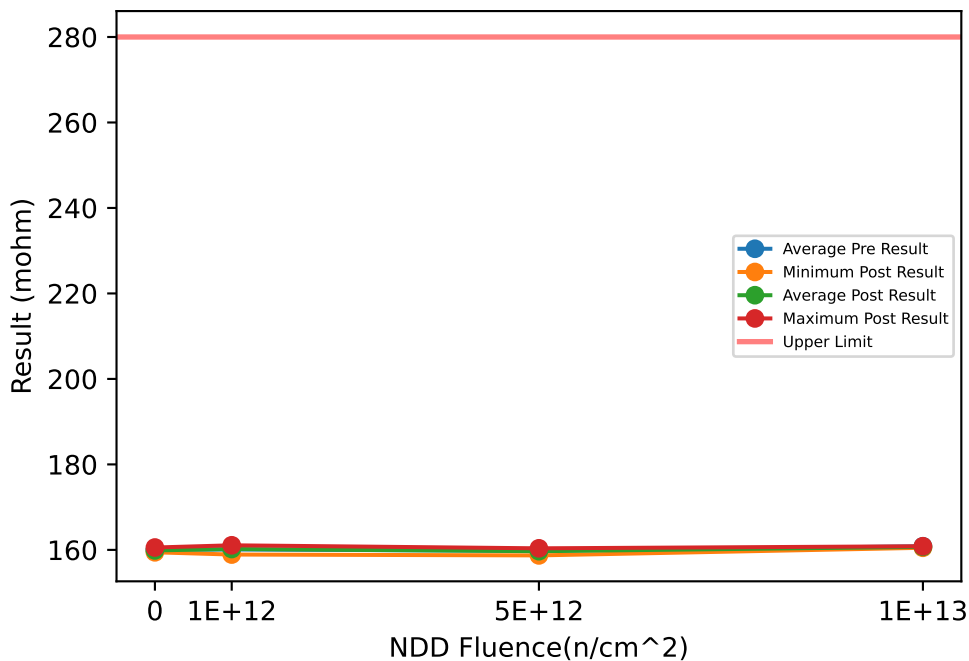


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	159.7	160	160.19	0.26173	159.4	159.85	160.53	0.60044	-0.5677	-0.14973	0.4226	0.51288
1e+12	158.76	160.08	161.01	1.174	158.89	160.18	161.06	1.1388	0.0478	0.0992	0.1317	0.04503
5e+12	158.79	159.76	161.08	1.1837	158.69	159.67	160.35	0.87216	-0.7305	-0.086533	0.5743	0.65256
1e+13	160.74	160.83	160.92	0.092183	160.47	160.69	160.84	0.19021	-0.4477	-0.14677	0.1007	0.27808

# Device Test: 12.16 UJ4ZR4(RDSON\_32V\_OUT4\_UJE410\_UJ4ZR4)

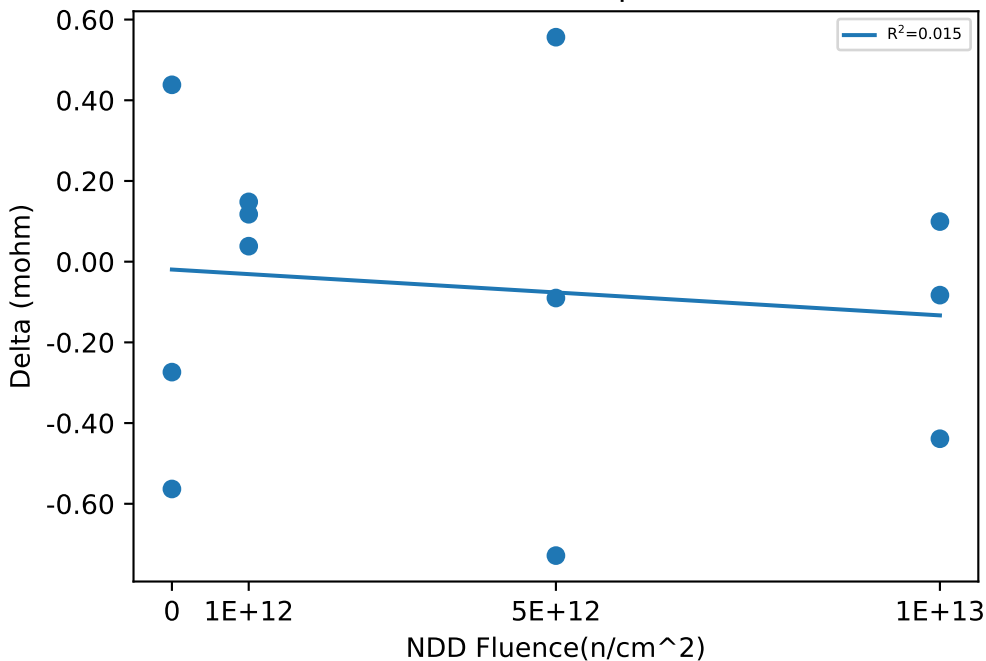
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	158.79	158.91	0.1175
2	1e+12	NDD, unbiased	160.48	160.63	0.1482
3	1e+12	NDD, unbiased	161.04	161.08	0.0384
4	5e+12	NDD, unbiased	158.8	158.71	-0.0901
5	5e+12	NDD, unbiased	159.44	159.99	0.5563
6	5e+12	NDD, unbiased	161.1	160.37	-0.7284
7	1e+13	NDD, unbiased	160.93	160.49	-0.4388
8	1e+13	NDD, unbiased	160.75	160.85	0.0994
9	1e+13	NDD, unbiased	160.86	160.78	-0.0829
10	0	correlation	160.22	159.65	-0.5633
11	0	correlation	160.12	160.56	0.4383
12	0	correlation	159.71	159.43	-0.2737

## NDD vs Post - Pre Exposure Delta

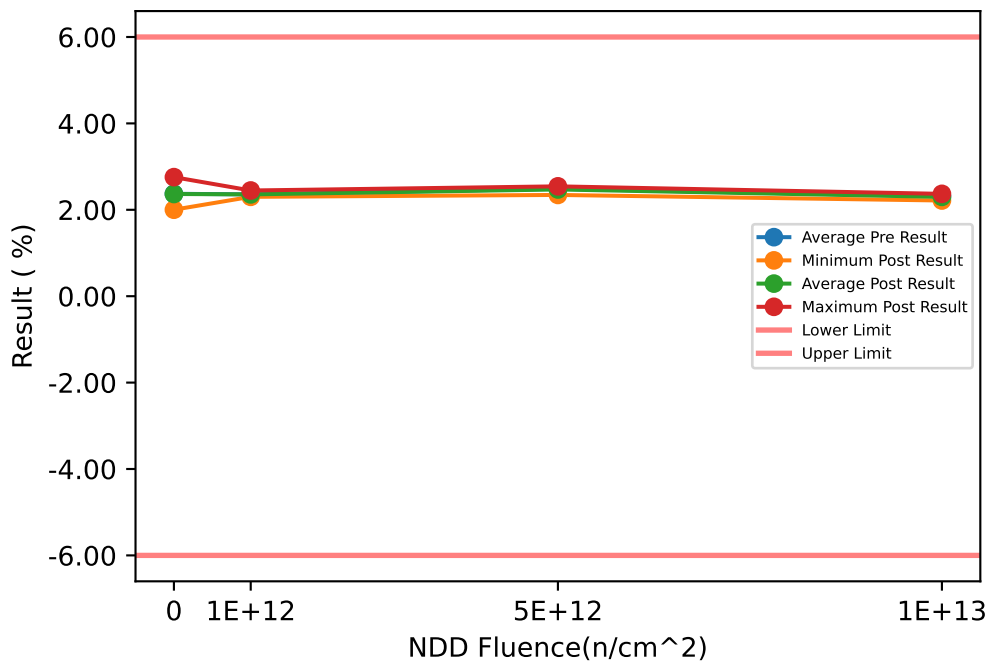


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	159.71	160.01	160.22	0.26964	159.43	159.88	160.56	0.59424	-0.5633	-0.1329	0.4383	0.51543
1e+12	158.79	160.1	161.04	1.1685	158.91	160.21	161.08	1.1429	0.0384	0.10137	0.1482	0.05665
5e+12	158.8	159.78	161.1	1.1857	158.71	159.69	160.37	0.86913	-0.7284	-0.0874	0.5563	0.64235
1e+13	160.75	160.85	160.93	0.08942	160.49	160.71	160.85	0.1914	-0.4388	-0.14077	0.0994	0.27373

# Device Test: 12.17 UJJ3KD(Delta\_RDSON\_5V\_CH1CH2\_UJJ3KD)

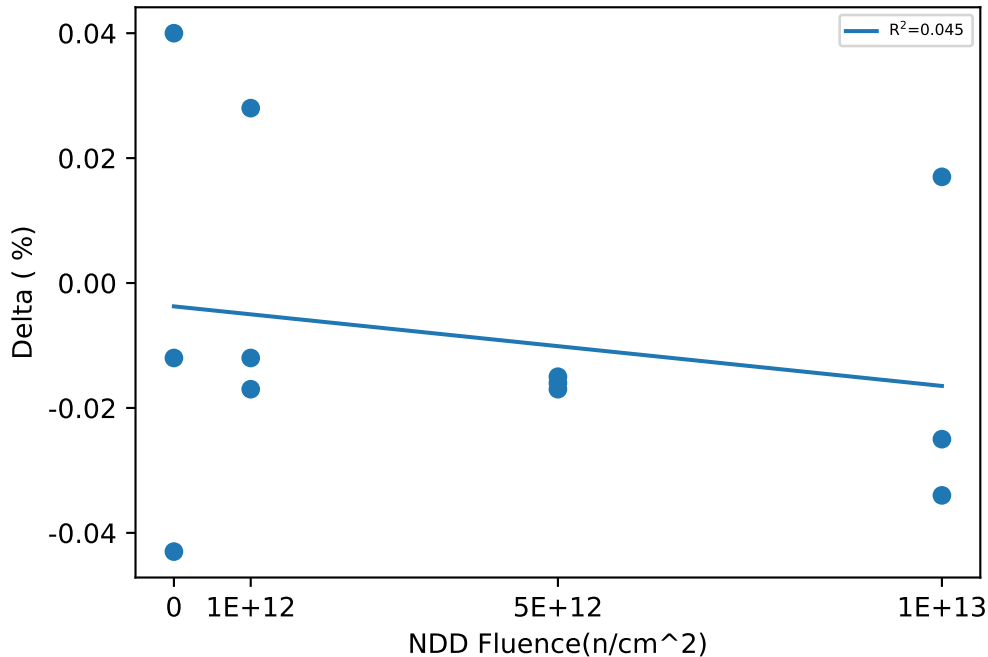
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2.295	2.323	0.028
2	1e+12	NDD, unbiased	2.312	2.3	-0.012
3	1e+12	NDD, unbiased	2.464	2.447	-0.017
4	5e+12	NDD, unbiased	2.36	2.344	-0.016
5	5e+12	NDD, unbiased	2.558	2.543	-0.015
6	5e+12	NDD, unbiased	2.542	2.525	-0.017
7	1e+13	NDD, unbiased	2.352	2.369	0.017
8	1e+13	NDD, unbiased	2.347	2.313	-0.034
9	1e+13	NDD, unbiased	2.24	2.215	-0.025
10	0	correlation	2.299	2.339	0.04
11	0	correlation	2.768	2.756	-0.012
12	0	correlation	2.045	2.002	-0.043

## NDD vs Post - Pre Exposure Delta

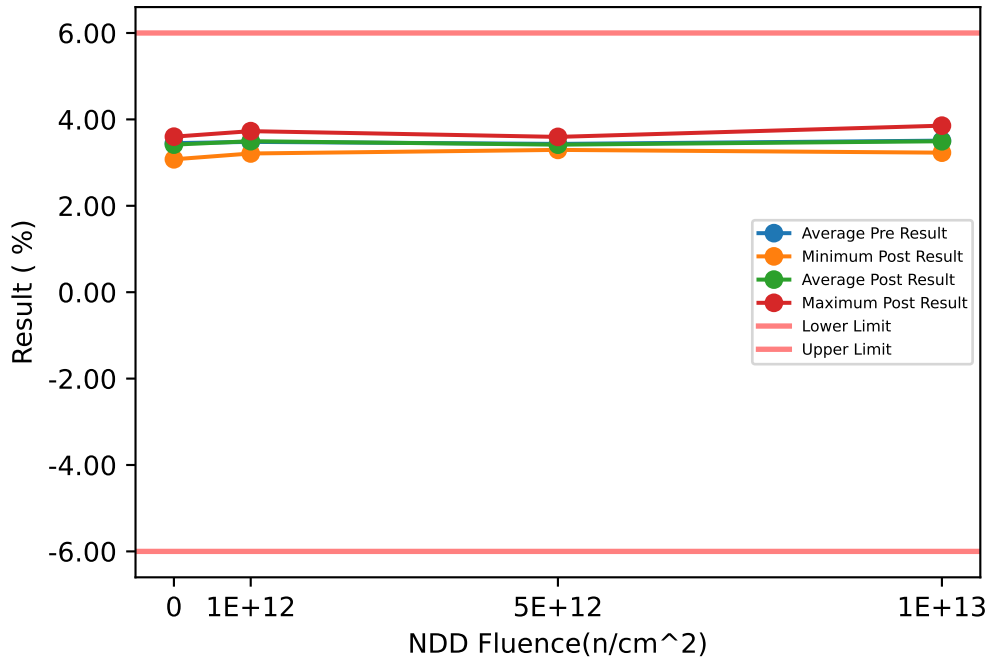


## Test Statistics ( % )

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.045	2.3707	2.768	0.36679	2.002	2.3657	2.756	0.37771	-0.043	-0.005	0.04	0.04194
1e+12	2.295	2.357	2.464	0.093054	2.3	2.3567	2.447	0.079072	-0.017	-0.00033333	0.028	0.024664
5e+12	2.36	2.4867	2.558	0.10999	2.344	2.4707	2.543	0.11007	-0.017	-0.016	-0.015	0.001
1e+13	2.24	2.313	2.352	0.063269	2.215	2.299	2.369	0.077949	-0.034	-0.014	0.017	0.027221

# Device Test: 12.18 UJJ3KD(Delta\_RDSON\_5V\_CH1CH3\_UJJ3KD)

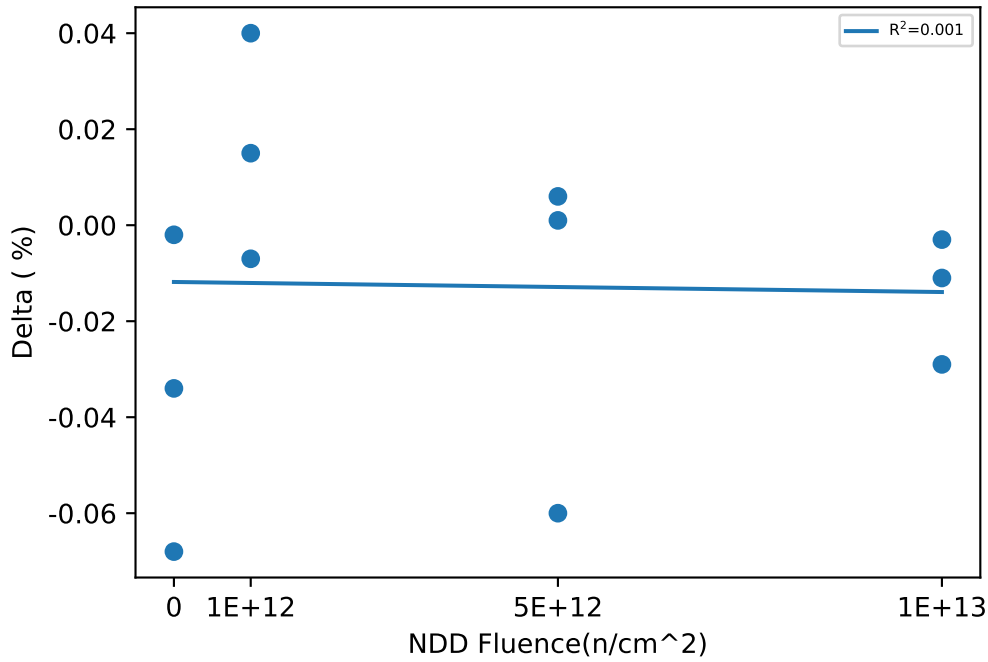
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.532	3.547	0.015
2	1e+12	NDD, unbiased	3.688	3.728	0.04
3	1e+12	NDD, unbiased	3.218	3.211	-0.007
4	5e+12	NDD, unbiased	3.354	3.294	-0.06
5	5e+12	NDD, unbiased	3.589	3.595	0.006
6	5e+12	NDD, unbiased	3.355	3.356	0.001
7	1e+13	NDD, unbiased	3.4	3.397	-0.003
8	1e+13	NDD, unbiased	3.884	3.855	-0.029
9	1e+13	NDD, unbiased	3.241	3.23	-0.011
10	0	correlation	3.634	3.6	-0.034
11	0	correlation	3.573	3.571	-0.002
12	0	correlation	3.144	3.076	-0.068

## NDD vs Post - Pre Exposure Delta

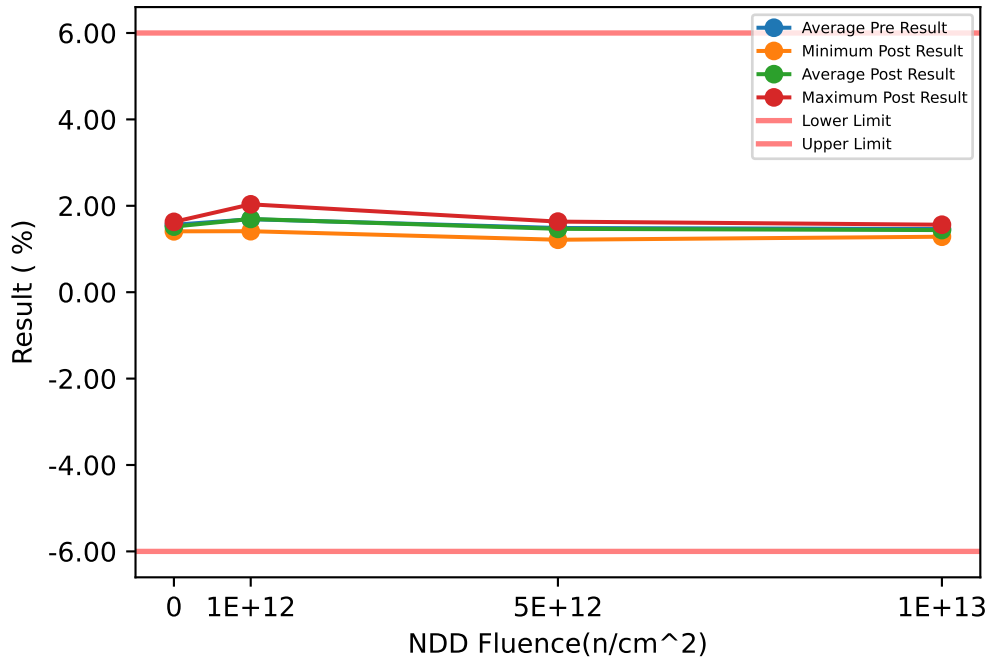


## Test Statistics ( %)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.144	3.4503	3.634	0.26704	3.076	3.4157	3.6	0.29452	-0.068	-0.034667	-0.002	0.033005
1e+12	3.218	3.4793	3.688	0.23939	3.211	3.4953	3.728	0.26234	-0.007	0.016	0.04	0.023516
5e+12	3.354	3.4327	3.589	0.13539	3.294	3.415	3.595	0.15894	-0.06	-0.017667	0.006	0.036747
1e+13	3.241	3.5083	3.884	0.33491	3.23	3.494	3.855	0.32359	-0.029	-0.014333	-0.003	0.013317

# Device Test: 12.19 UJJ3KD(Delta\_RDSON\_5V\_CH1CH4\_UJJ3KD)

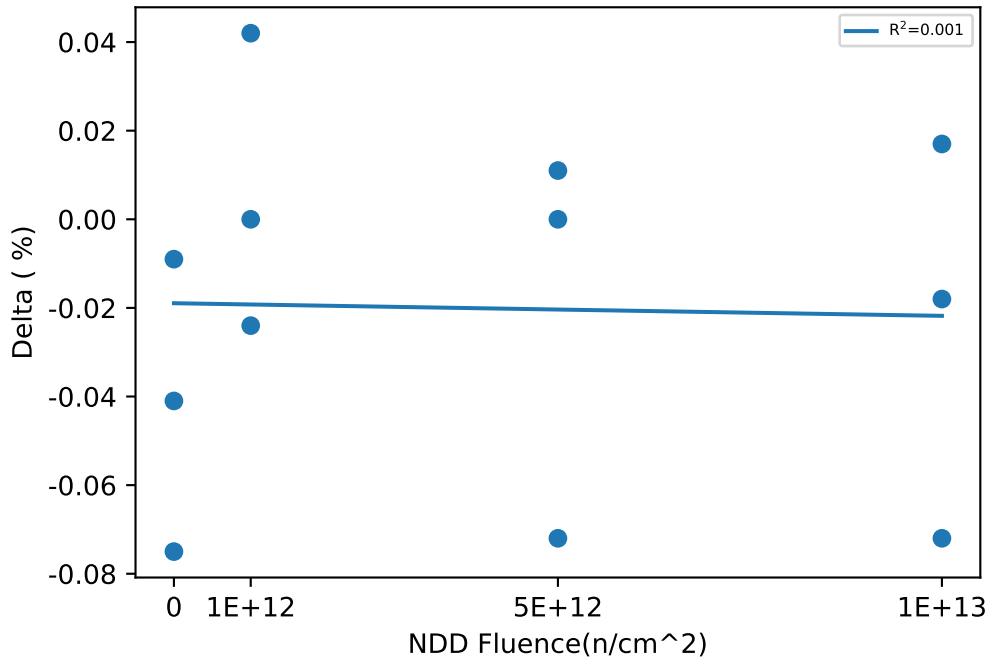
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.64	1.64	0
2	1e+12	NDD, unbiased	1.992	2.034	0.042
3	1e+12	NDD, unbiased	1.436	1.412	-0.024
4	5e+12	NDD, unbiased	1.286	1.214	-0.072
5	5e+12	NDD, unbiased	1.54	1.551	0.011
6	5e+12	NDD, unbiased	1.634	1.634	0
7	1e+13	NDD, unbiased	1.545	1.562	0.017
8	1e+13	NDD, unbiased	1.539	1.467	-0.072
9	1e+13	NDD, unbiased	1.302	1.284	-0.018
10	0	correlation	1.669	1.628	-0.041
11	0	correlation	1.526	1.517	-0.009
12	0	correlation	1.484	1.409	-0.075

## NDD vs Post - Pre Exposure Delta

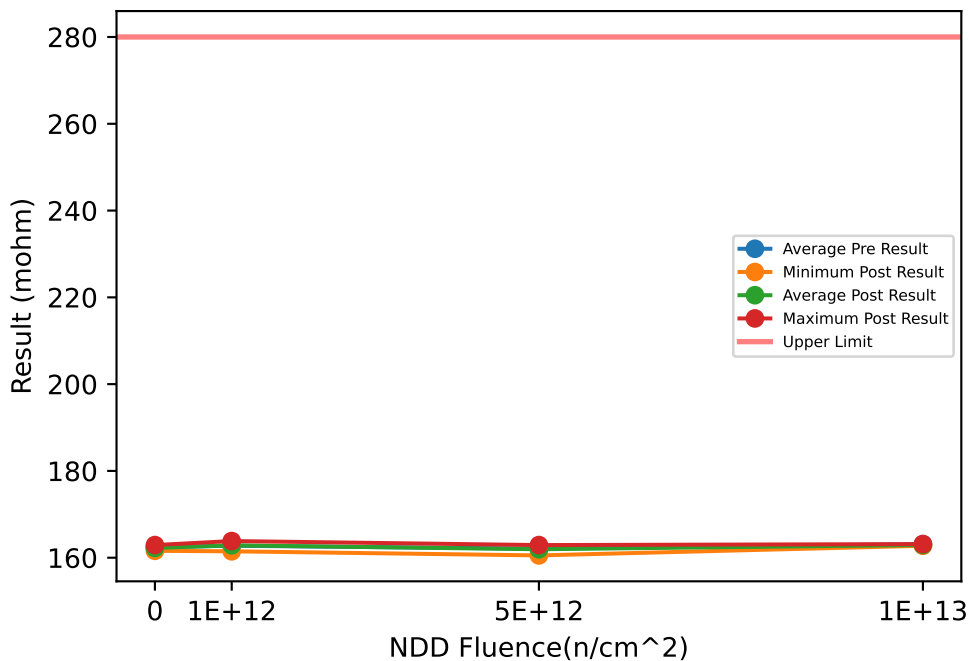


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.484	1.5597	1.669	0.096986	1.409	1.518	1.628	0.1095	-0.075	-0.041667	-0.009	0.033005
1e+12	1.436	1.6893	1.992	0.28126	1.412	1.6953	2.034	0.31467	-0.024	0.006	0.042	0.033407
5e+12	1.286	1.4867	1.634	0.18003	1.214	1.4663	1.634	0.22243	-0.072	-0.020333	0.011	0.045081
1e+13	1.302	1.462	1.545	0.1386	1.284	1.4377	1.562	0.1413	-0.072	-0.024333	0.017	0.044837

# Device Test: 12.2 UJ4ZR4(RDSON\_12V\_OUT1\_UJE410\_UJ4ZR4)

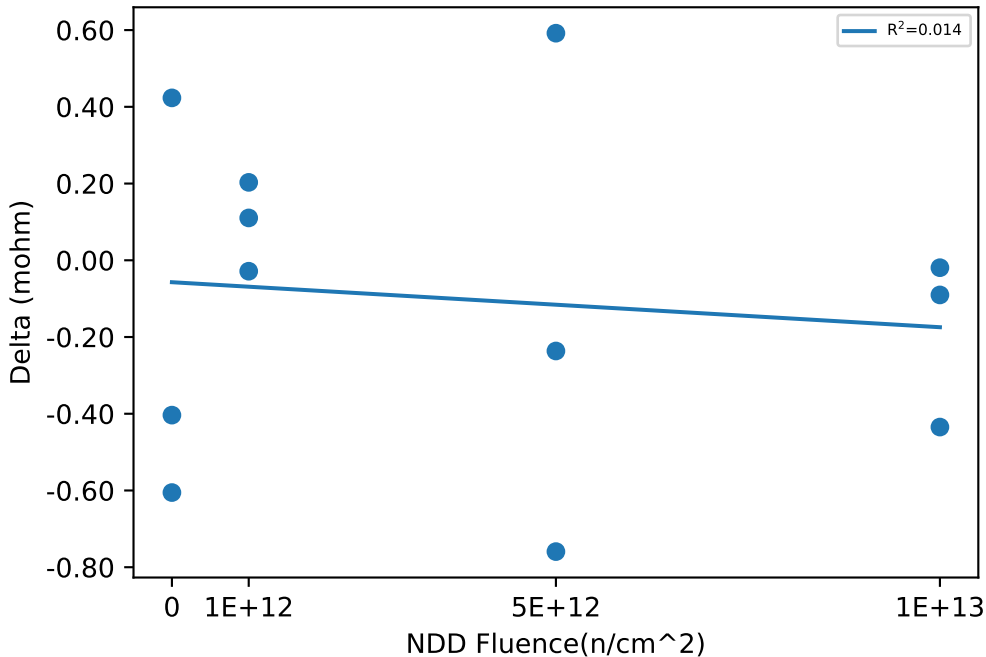
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	161.36	161.48	0.1104
2	1e+12	NDD, unbiased	163.64	163.84	0.2031
3	1e+12	NDD, unbiased	163.28	163.25	-0.0285
4	5e+12	NDD, unbiased	160.77	160.53	-0.2364
5	5e+12	NDD, unbiased	161.81	162.41	0.5919
6	5e+12	NDD, unbiased	163.67	162.91	-0.7593
7	1e+13	NDD, unbiased	163.34	162.91	-0.4347
8	1e+13	NDD, unbiased	163.16	163.14	-0.0193
9	1e+13	NDD, unbiased	162.84	162.75	-0.0903
10	0	correlation	162.81	162.2	-0.6054
11	0	correlation	162.49	162.91	0.4233
12	0	correlation	162	161.59	-0.4036

## NDD vs Post - Pre Exposure Delta



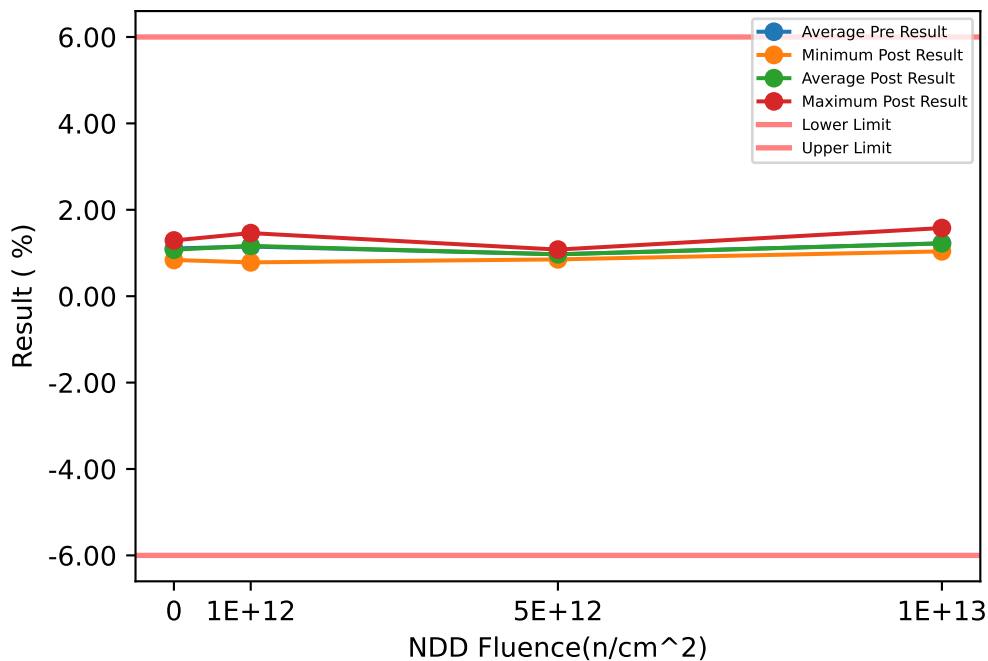
## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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	162.43	162.81	0.4085	161.59	162.23	162.91	0.66097	-0.6054	-0.19523	0.4233	0.54509
1e+12	161.36	162.76	163.64	1.2217	161.48	162.86	163.84	1.231	-0.0285	0.095	0.2031	0.11657
5e+12	160.77	162.08	163.67	1.4688	160.53	161.95	162.91	1.2522	-0.7593	-0.1346	0.5919	0.68133
1e+13	162.84	163.12	163.34	0.25414	162.75	162.93	163.14	0.19618	-0.4347	-0.18143	-0.0193	0.22219



# Device Test: 12.20 UJJ3KD(Delta\_RDSON\_5V\_CH2CH3\_UJJ3KD)

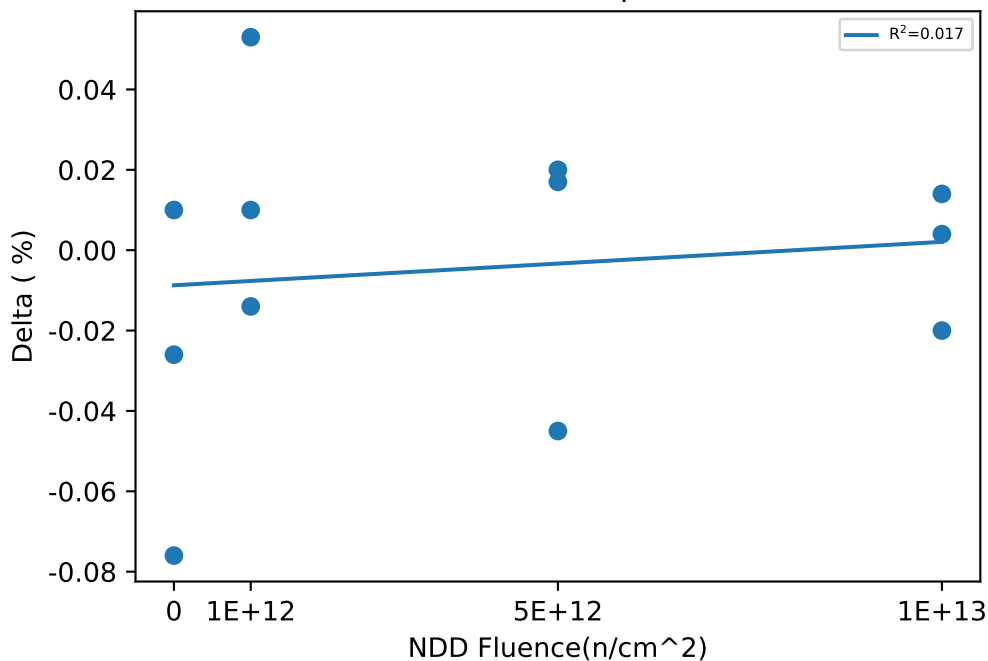
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.267	1.253	-0.014
2	1e+12	NDD, unbiased	1.408	1.461	0.053
3	1e+12	NDD, unbiased	0.773	0.783	0.01
4	5e+12	NDD, unbiased	1.018	0.973	-0.045
5	5e+12	NDD, unbiased	1.059	1.079	0.02
6	5e+12	NDD, unbiased	0.835	0.852	0.017
7	1e+13	NDD, unbiased	1.073	1.053	-0.02
8	1e+13	NDD, unbiased	1.574	1.578	0.004
9	1e+13	NDD, unbiased	1.024	1.038	0.014
10	0	correlation	1.367	1.291	-0.076
11	0	correlation	0.828	0.838	0.01
12	0	correlation	1.122	1.096	-0.026

## NDD vs Post - Pre Exposure Delta

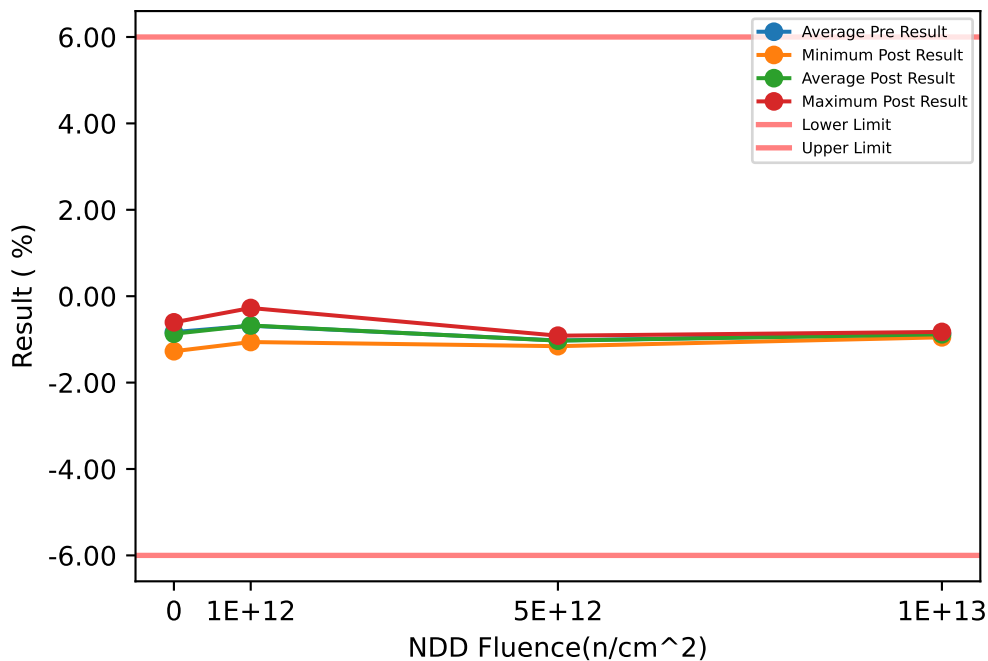


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.828	1.1057	1.367	0.26987	0.838	1.075	1.291	0.22723	-0.076	-0.030667	0.01	0.04319
1e+12	0.773	1.1493	1.408	0.33345	0.783	1.1657	1.461	0.34733	-0.014	0.016333	0.053	0.033946
5e+12	0.835	0.97067	1.059	0.11927	0.852	0.968	1.079	0.11358	-0.045	-0.0026667	0.02	0.036692
1e+13	1.024	1.2237	1.574	0.30439	1.038	1.223	1.578	0.30753	-0.02	-0.00066667	0.014	0.017474

# Device Test: 12.21 UJJ3KD(Delta\_RDSON\_5V\_CH2CH4\_UJJ3KD)

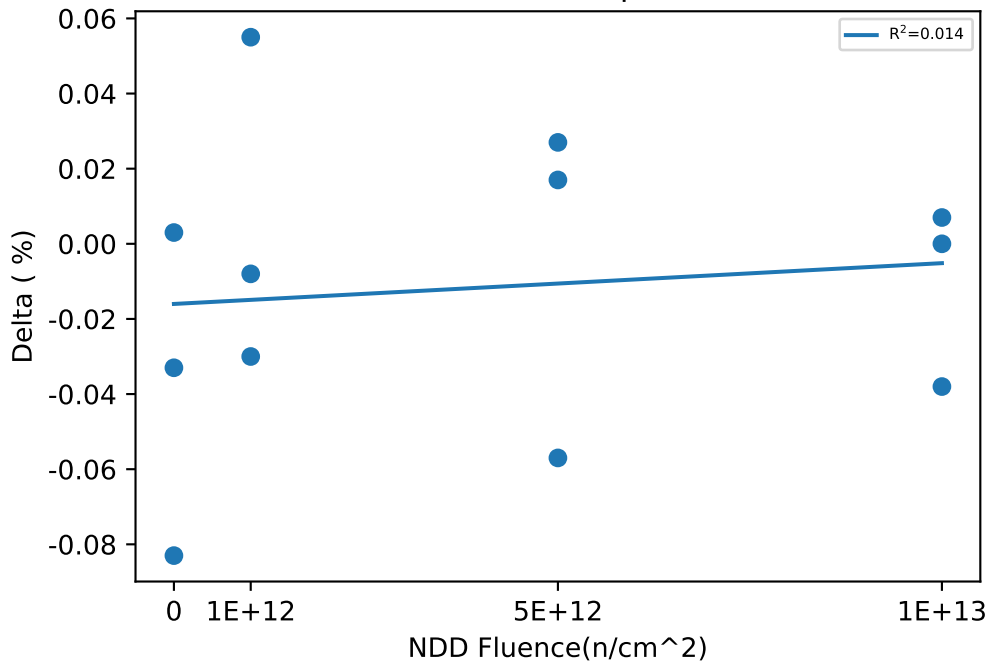
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.67	-0.7	-0.03
2	1e+12	NDD, unbiased	-0.328	-0.273	0.055
3	1e+12	NDD, unbiased	-1.053	-1.061	-0.008
4	5e+12	NDD, unbiased	-1.1	-1.157	-0.057
5	5e+12	NDD, unbiased	-1.044	-1.017	0.027
6	5e+12	NDD, unbiased	-0.931	-0.914	0.017
7	1e+13	NDD, unbiased	-0.827	-0.827	0
8	1e+13	NDD, unbiased	-0.828	-0.866	-0.038
9	1e+13	NDD, unbiased	-0.959	-0.952	0.007
10	0	correlation	-0.645	-0.728	-0.083
11	0	correlation	-1.277	-1.274	0.003
12	0	correlation	-0.572	-0.605	-0.033

## NDD vs Post - Pre Exposure Delta

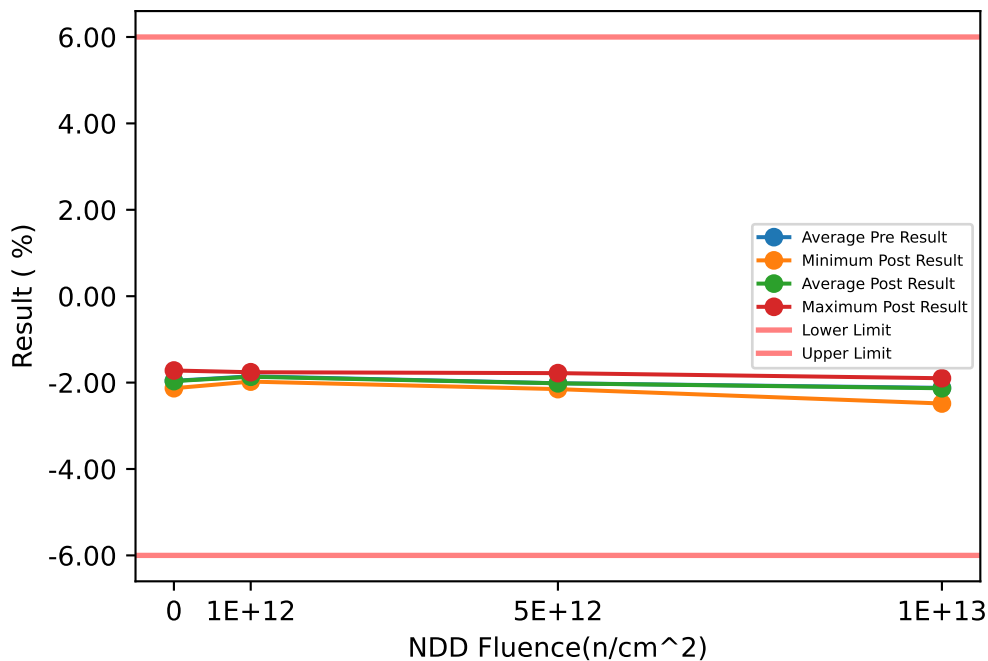


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.277	-0.83133	-0.572	0.38768	-1.274	-0.869	-0.605	0.35609	-0.083	-0.037667	0.003	0.04319
1e+12	-1.053	-0.68367	-0.328	0.36269	-1.061	-0.678	-0.273	0.39446	-0.03	0.0056667	0.055	0.044117
5e+12	-1.1	-1.025	-0.931	0.086087	-1.157	-1.0293	-0.914	0.12197	-0.057	-0.0043333	0.027	0.045884
1e+13	-0.959	-0.87133	-0.827	0.075923	-0.952	-0.88167	-0.827	0.063956	-0.038	-0.010333	0.007	0.024214

# Device Test: 12.22 UJJ3KD(Delta\_RDSON\_5V\_CH3CH4\_UJJ3KD)

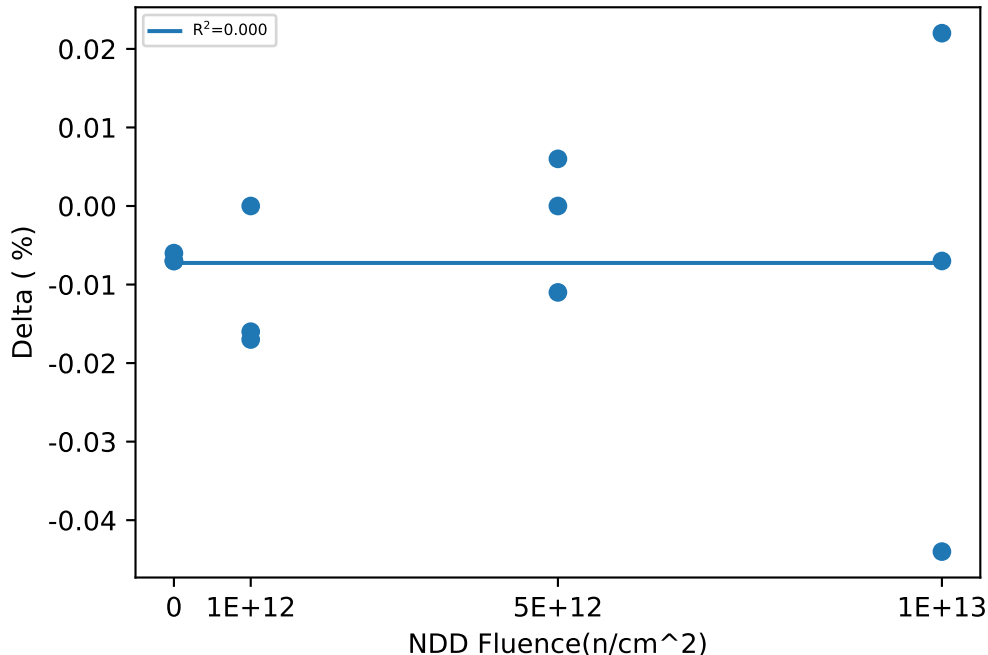
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-1.961	-1.977	-0.016
2	1e+12	NDD, unbiased	-1.76	-1.76	0
3	1e+12	NDD, unbiased	-1.841	-1.858	-0.017
4	5e+12	NDD, unbiased	-2.14	-2.151	-0.011
5	5e+12	NDD, unbiased	-2.125	-2.119	0.006
6	5e+12	NDD, unbiased	-1.781	-1.781	0
7	1e+13	NDD, unbiased	-1.921	-1.899	0.022
8	1e+13	NDD, unbiased	-2.44	-2.484	-0.044
9	1e+13	NDD, unbiased	-2.004	-2.011	-0.007
10	0	correlation	-2.04	-2.046	-0.006
11	0	correlation	-2.123	-2.13	-0.007
12	0	correlation	-1.713	-1.72	-0.007

## NDD vs Post - Pre Exposure Delta

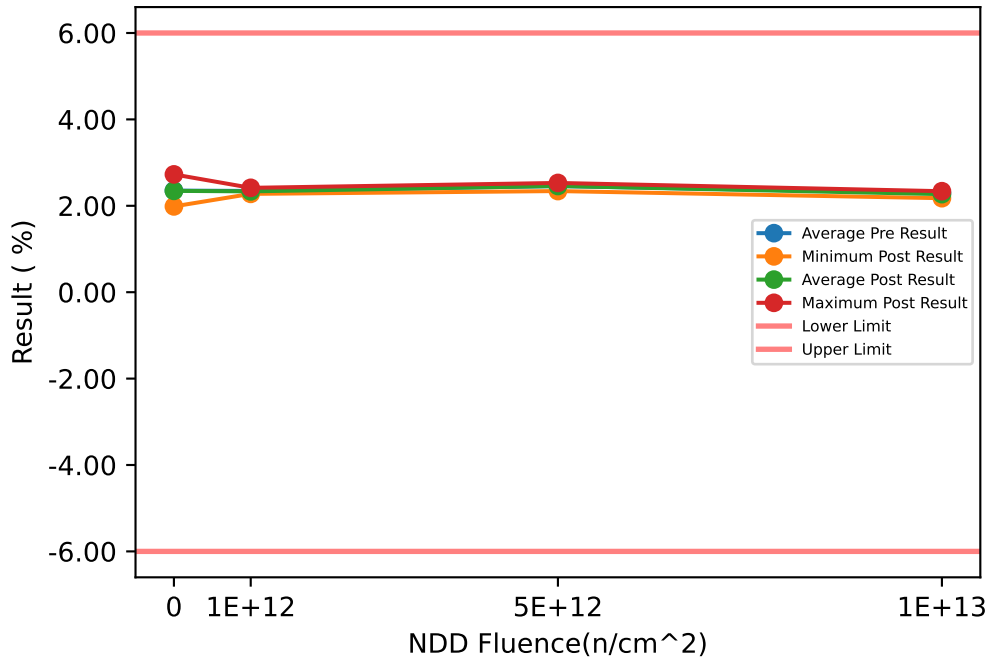


## Test Statistics ( %)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2.123	-1.9587	-1.713	0.21676	-2.13	-1.9653	-1.72	0.21658	-0.007	-0.0066667	-0.006	0.00057735
1e+12	-1.961	-1.854	-1.76	0.10113	-1.977	-1.865	-1.76	0.10867	-0.017	-0.011	0	0.0095394
5e+12	-2.14	-2.0153	-1.781	0.20308	-2.151	-2.017	-1.781	0.20501	-0.011	-0.0016667	0.006	0.0086217
1e+13	-2.44	-2.1217	-1.921	0.27879	-2.484	-2.1313	-1.899	0.31051	-0.044	-0.0096667	0.022	0.033081

# Device Test: 12.23 UJJ3KD(Delta\_RDSON\_12V\_CH1CH2\_UJJ3KD)

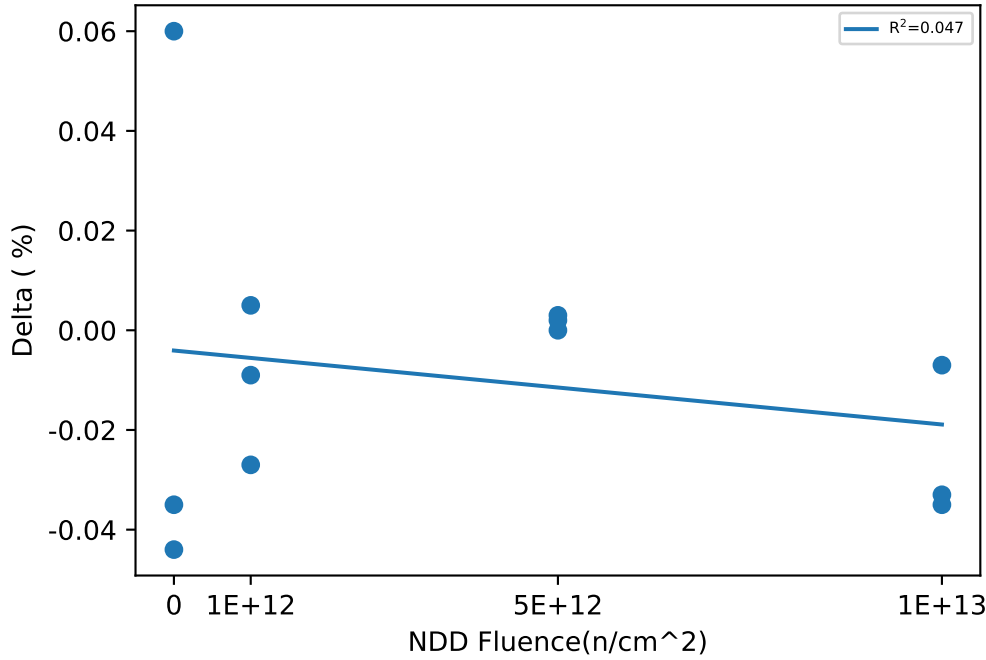
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2.304	2.309	0.005
2	1e+12	NDD, unbiased	2.285	2.276	-0.009
3	1e+12	NDD, unbiased	2.443	2.416	-0.027
4	5e+12	NDD, unbiased	2.341	2.341	0
5	5e+12	NDD, unbiased	2.527	2.529	0.002
6	5e+12	NDD, unbiased	2.502	2.505	0.003
7	1e+13	NDD, unbiased	2.345	2.338	-0.007
8	1e+13	NDD, unbiased	2.328	2.295	-0.033
9	1e+13	NDD, unbiased	2.211	2.176	-0.035
10	0	correlation	2.264	2.324	0.06
11	0	correlation	2.762	2.727	-0.035
12	0	correlation	2.03	1.986	-0.044

## NDD vs Post - Pre Exposure Delta

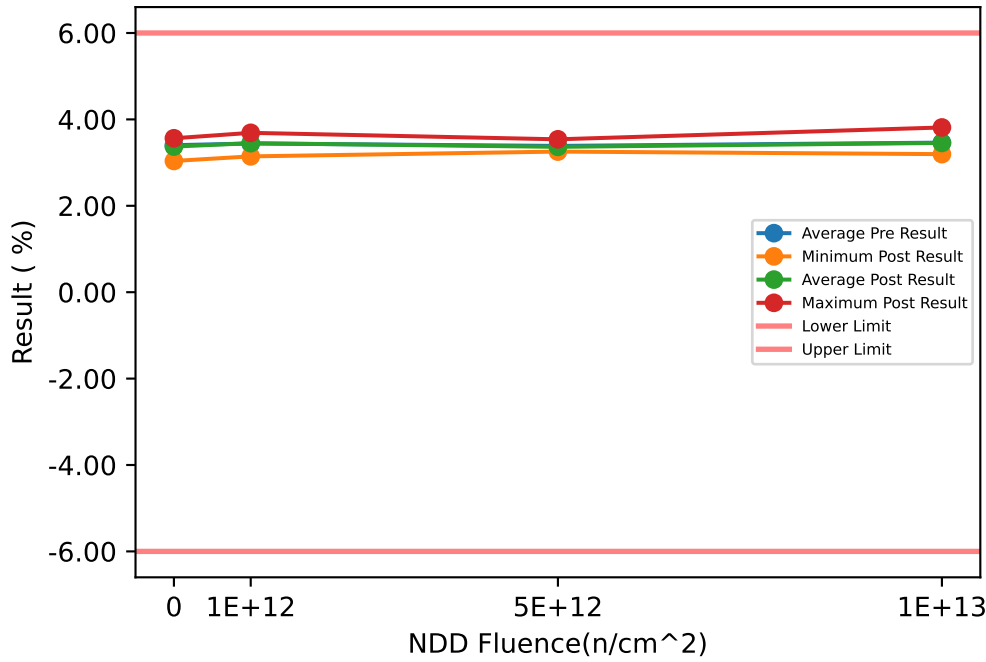


## Test Statistics ( %)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.03	2.352	2.762	0.37385	1.986	2.3457	2.727	0.37097	-0.044	-0.0063333	0.06	0.057622
1e+12	2.285	2.344	2.443	0.086261	2.276	2.3337	2.416	0.073187	-0.027	-0.010333	0.005	0.016042
5e+12	2.341	2.4567	2.527	0.10095	2.341	2.4583	2.529	0.10232	0	0.0016667	0.003	0.0015275
1e+13	2.211	2.2947	2.345	0.072954	2.176	2.2697	2.338	0.083919	-0.035	-0.025	-0.007	0.01562

# Device Test: 12.24 UJJ3KD(Delta\_RDSON\_12V\_CH1CH3\_UJJ3KD)

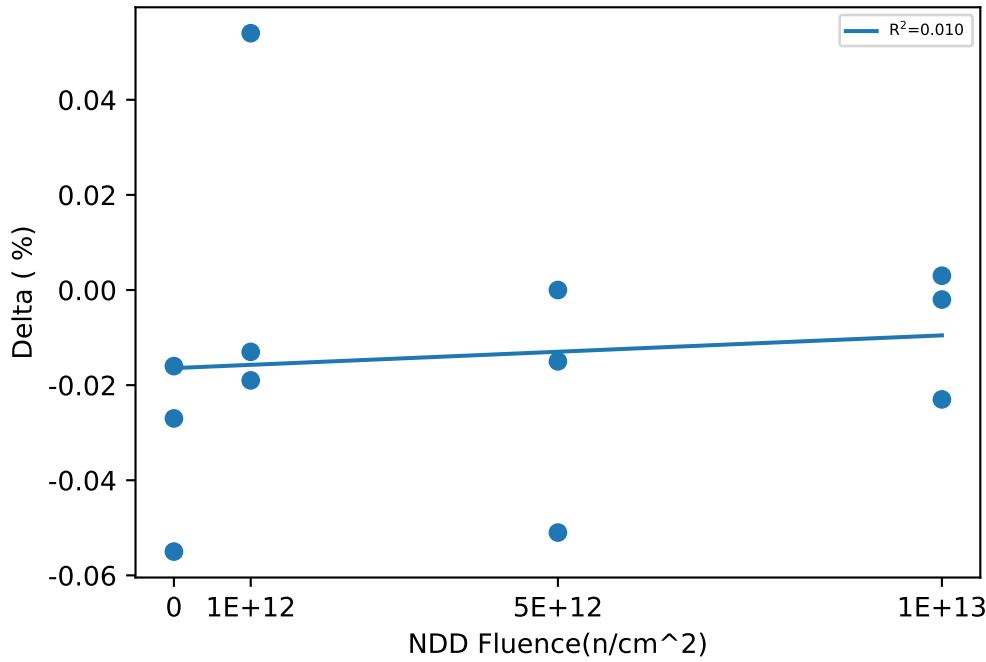
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.528	3.515	-0.013
2	1e+12	NDD, unbiased	3.635	3.689	0.054
3	1e+12	NDD, unbiased	3.163	3.144	-0.019
4	5e+12	NDD, unbiased	3.306	3.255	-0.051
5	5e+12	NDD, unbiased	3.539	3.539	0
6	5e+12	NDD, unbiased	3.315	3.3	-0.015
7	1e+13	NDD, unbiased	3.358	3.356	-0.002
8	1e+13	NDD, unbiased	3.836	3.813	-0.023
9	1e+13	NDD, unbiased	3.193	3.196	0.003
10	0	correlation	3.59	3.563	-0.027
11	0	correlation	3.527	3.511	-0.016
12	0	correlation	3.093	3.038	-0.055

## NDD vs Post - Pre Exposure Delta

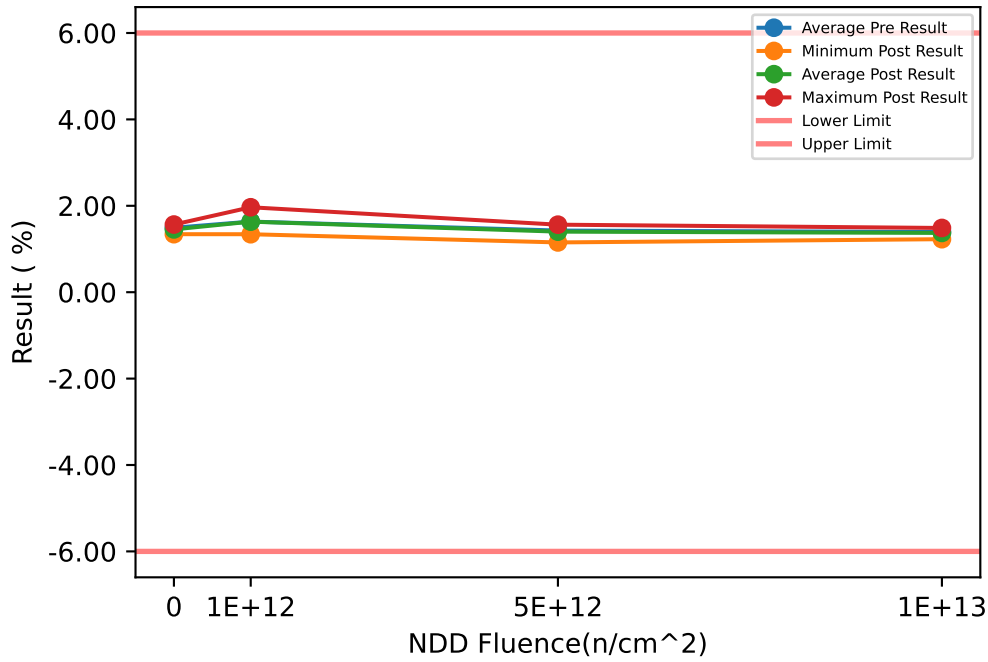


## Test Statistics ( %)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.093	3.4033	3.59	0.2706	3.038	3.3707	3.563	0.28927	-0.055	-0.032667	-0.016	0.020108
1e+12	3.163	3.442	3.635	0.24747	3.144	3.4493	3.689	0.27837	-0.019	0.0073333	0.054	0.040526
5e+12	3.306	3.3867	3.539	0.132	3.255	3.3647	3.539	0.15264	-0.051	-0.022	0	0.026211
1e+13	3.193	3.4623	3.836	0.33396	3.196	3.455	3.813	0.32019	-0.023	-0.0073333	0.003	0.013796

# Device Test: 12.25 UJJ3KD(Delta\_RDSON\_12V\_CH1CH4\_UJJ3KD)

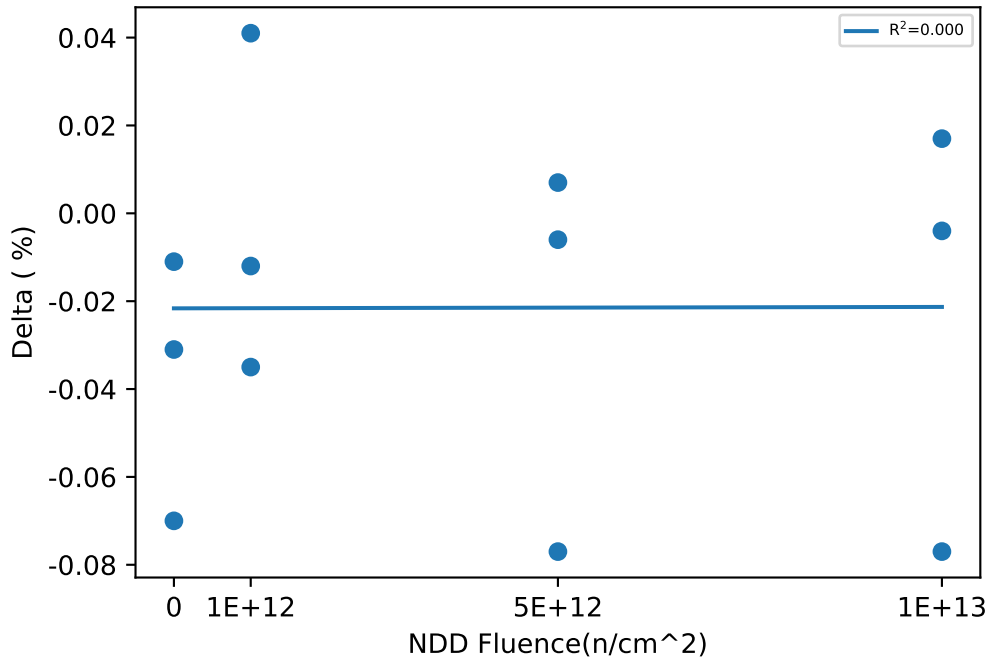
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.602	1.59	-0.012
2	1e+12	NDD, unbiased	1.925	1.966	0.041
3	1e+12	NDD, unbiased	1.377	1.342	-0.035
4	5e+12	NDD, unbiased	1.229	1.152	-0.077
5	5e+12	NDD, unbiased	1.483	1.49	0.007
6	5e+12	NDD, unbiased	1.569	1.563	-0.006
7	1e+13	NDD, unbiased	1.491	1.487	-0.004
8	1e+13	NDD, unbiased	1.479	1.402	-0.077
9	1e+13	NDD, unbiased	1.21	1.227	0.017
10	0	correlation	1.597	1.566	-0.031
11	0	correlation	1.463	1.452	-0.011
12	0	correlation	1.413	1.343	-0.07

## NDD vs Post - Pre Exposure Delta

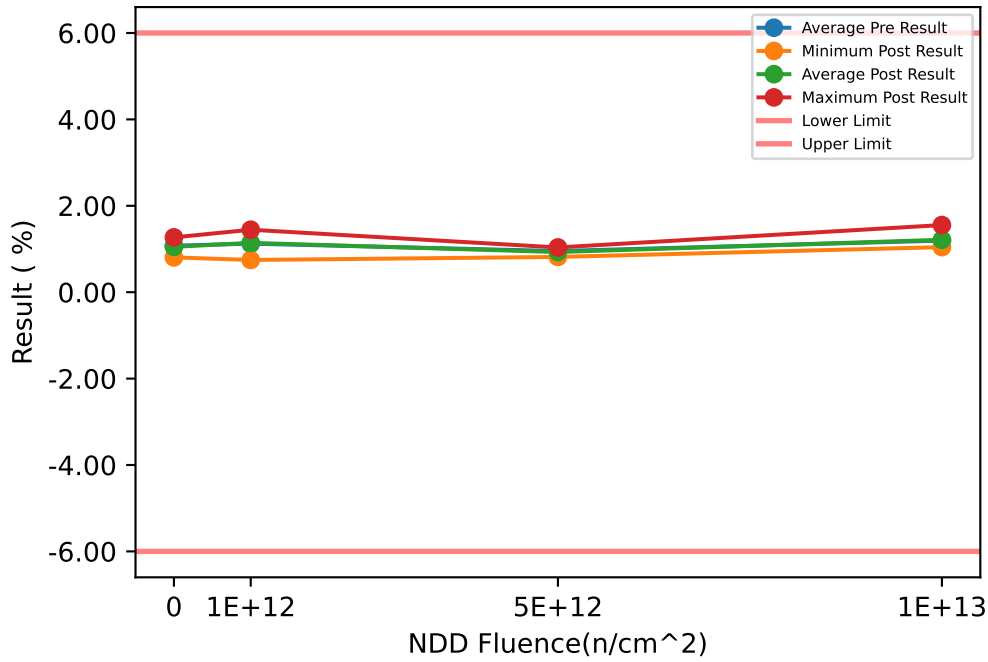


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.413	1.491	1.597	0.095142	1.343	1.4537	1.566	0.11151	-0.07	-0.037333	-0.011	0.030006
1e+12	1.377	1.6347	1.925	0.27546	1.342	1.6327	1.966	0.31418	-0.035	-0.002	0.041	0.038974
5e+12	1.229	1.427	1.569	0.17678	1.152	1.4017	1.563	0.21928	-0.077	-0.025333	0.007	0.045214
1e+13	1.21	1.3933	1.491	0.15888	1.227	1.372	1.487	0.13257	-0.077	-0.021333	0.017	0.049339

# Device Test: 12.26 UJJ3KD(Delta\_RDSON\_12V\_CH2CH3\_UJJ3KD)

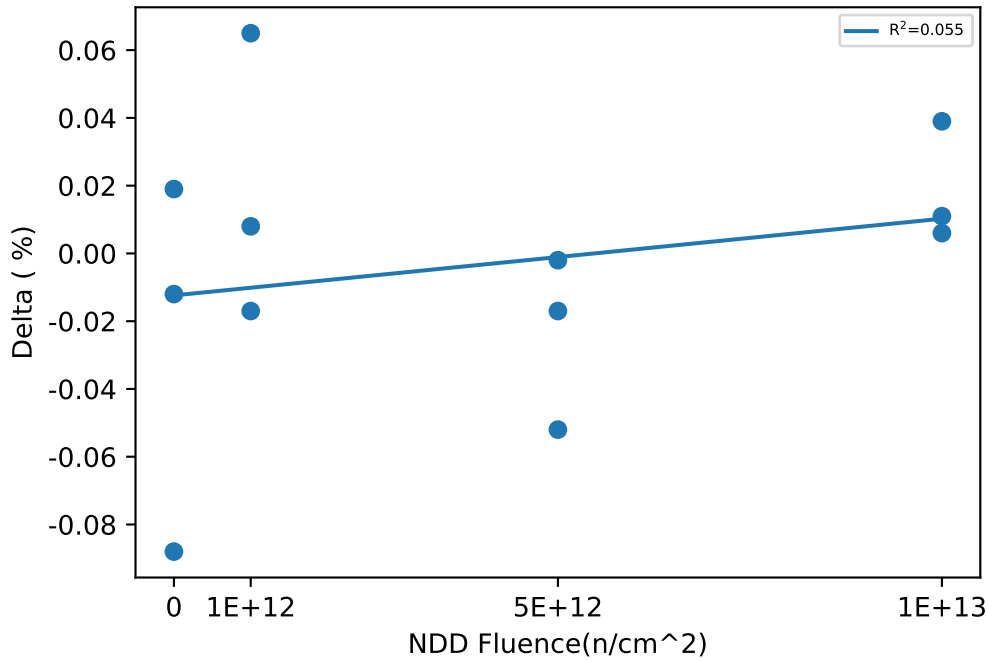
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.252	1.235	-0.017
2	1e+12	NDD, unbiased	1.381	1.446	0.065
3	1e+12	NDD, unbiased	0.738	0.746	0.008
4	5e+12	NDD, unbiased	0.988	0.936	-0.052
5	5e+12	NDD, unbiased	1.038	1.036	-0.002
6	5e+12	NDD, unbiased	0.833	0.816	-0.017
7	1e+13	NDD, unbiased	1.037	1.043	0.006
8	1e+13	NDD, unbiased	1.543	1.554	0.011
9	1e+13	NDD, unbiased	1.004	1.043	0.039
10	0	correlation	1.357	1.269	-0.088
11	0	correlation	0.787	0.806	0.019
12	0	correlation	1.086	1.074	-0.012

## NDD vs Post - Pre Exposure Delta

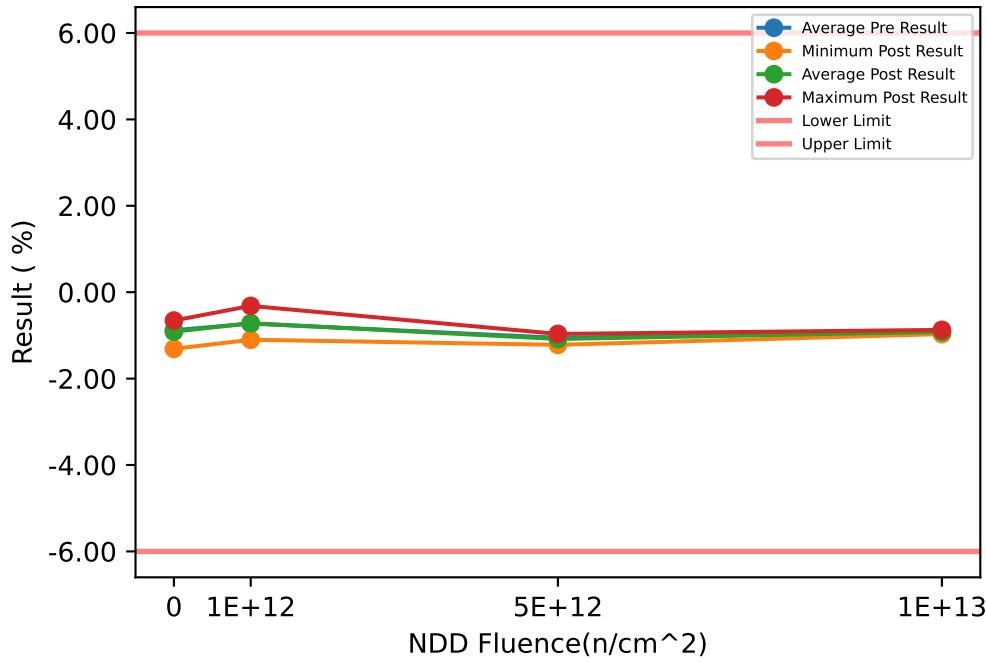


## Test Statistics ( %)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.787	1.0767	1.357	0.28511	0.806	1.0497	1.269	0.23246	-0.088	-0.027	0.019	0.055055
1e+12	0.738	1.1237	1.381	0.34017	0.746	1.1423	1.446	0.35908	-0.017	0.018667	0.065	0.042028
5e+12	0.833	0.953	1.038	0.10689	0.816	0.92933	1.036	0.11015	-0.052	-0.023667	-0.002	0.025658
1e+13	1.004	1.1947	1.543	0.30212	1.043	1.2133	1.554	0.29503	0.006	0.018667	0.039	0.017786

# Device Test: 12.27 UJJ3KD(Delta\_RDSON\_12V\_CH2CH4\_UJJ3KD)

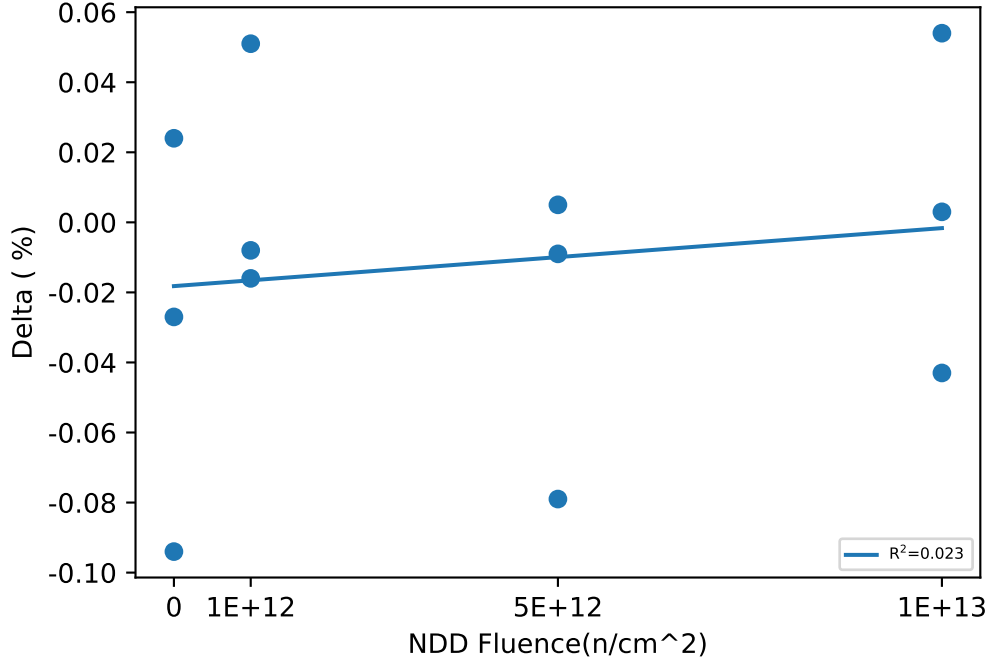
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.719	-0.735	-0.016
2	1e+12	NDD, unbiased	-0.368	-0.317	0.051
3	1e+12	NDD, unbiased	-1.093	-1.101	-0.008
4	5e+12	NDD, unbiased	-1.139	-1.218	-0.079
5	5e+12	NDD, unbiased	-1.071	-1.066	0.005
6	5e+12	NDD, unbiased	-0.957	-0.966	-0.009
7	1e+13	NDD, unbiased	-0.875	-0.872	0.003
8	1e+13	NDD, unbiased	-0.87	-0.913	-0.043
9	1e+13	NDD, unbiased	-1.024	-0.97	0.054
10	0	correlation	-0.682	-0.776	-0.094
11	0	correlation	-1.335	-1.311	0.024
12	0	correlation	-0.629	-0.656	-0.027

## NDD vs Post - Pre Exposure Delta



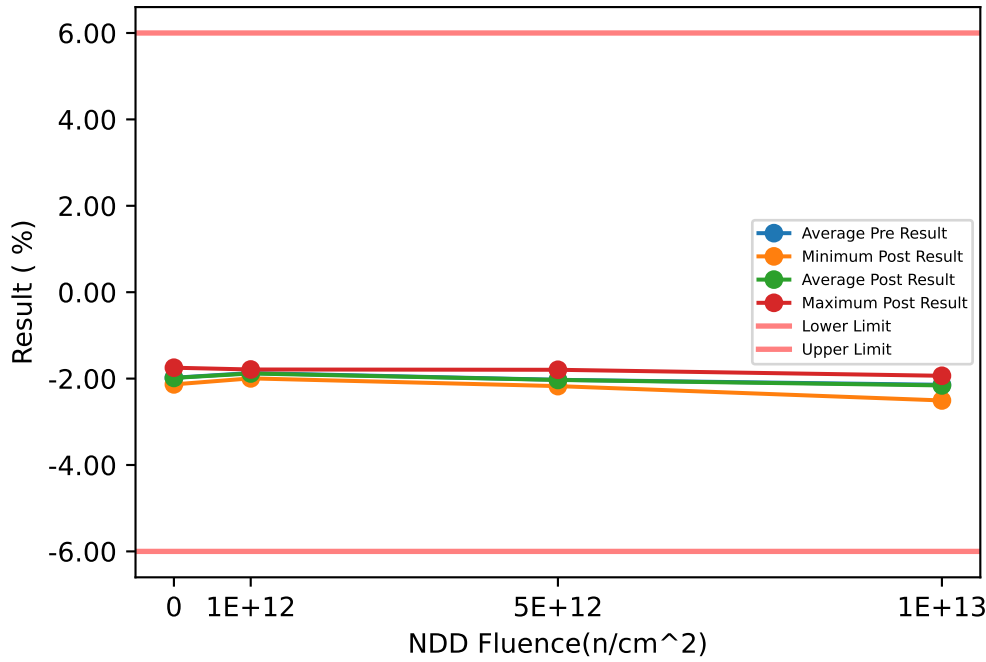
## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.335	-0.882	-0.629	0.3932	-1.311	-0.91433	-0.656	0.34872	-0.094	-0.032333	0.024	0.059181
1e+12	-1.093	-0.72667	-0.368	0.36256	-1.101	-0.71767	-0.317	0.39229	-0.016	0.009	0.051	0.036592
5e+12	-1.139	-1.0557	-0.957	0.091964	-1.218	-1.0833	-0.966	0.12689	-0.079	-0.027667	0.005	0.045004
1e+13	-1.024	-0.923	-0.87	0.087504	-0.97	-0.91833	-0.872	0.049217	-0.043	0.0046667	0.054	0.048521



# Device Test: 12.28 UJJ3KD(Delta\_RDSON\_12V\_CH3CH4\_UJJ3KD)

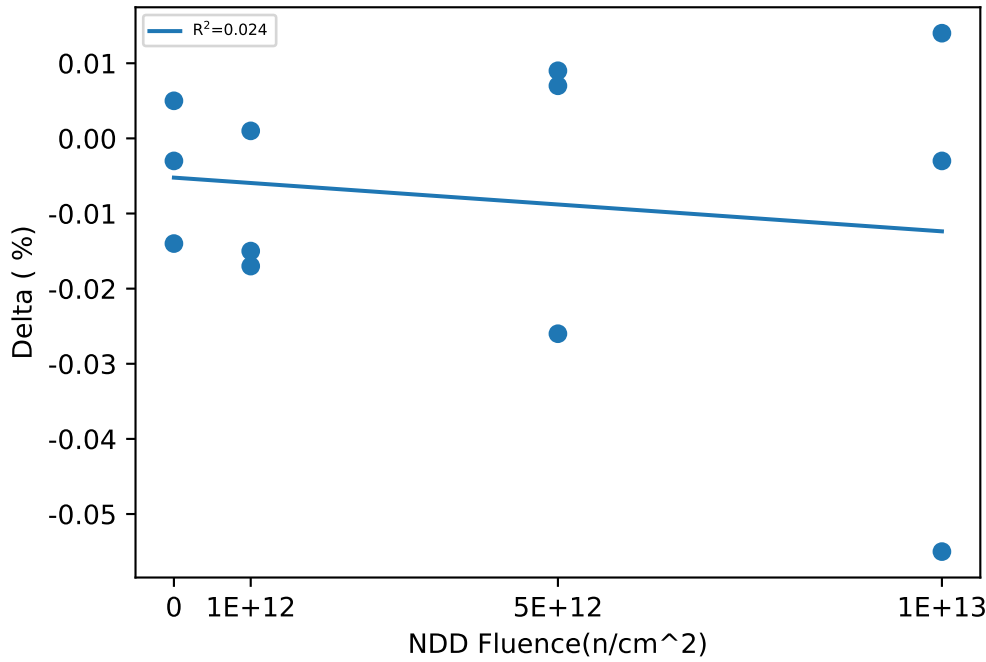
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-1.996	-1.995	0.001
2	1e+12	NDD, unbiased	-1.774	-1.789	-0.015
3	1e+12	NDD, unbiased	-1.844	-1.861	-0.017
4	5e+12	NDD, unbiased	-2.148	-2.174	-0.026
5	5e+12	NDD, unbiased	-2.131	-2.124	0.007
6	5e+12	NDD, unbiased	-1.805	-1.796	0.009
7	1e+13	NDD, unbiased	-1.932	-1.935	-0.003
8	1e+13	NDD, unbiased	-2.451	-2.506	-0.055
9	1e+13	NDD, unbiased	-2.048	-2.034	0.014
10	0	correlation	-2.068	-2.071	-0.003
11	0	correlation	-2.139	-2.134	0.005
12	0	correlation	-1.734	-1.748	-0.014

## NDD vs Post - Pre Exposure Delta

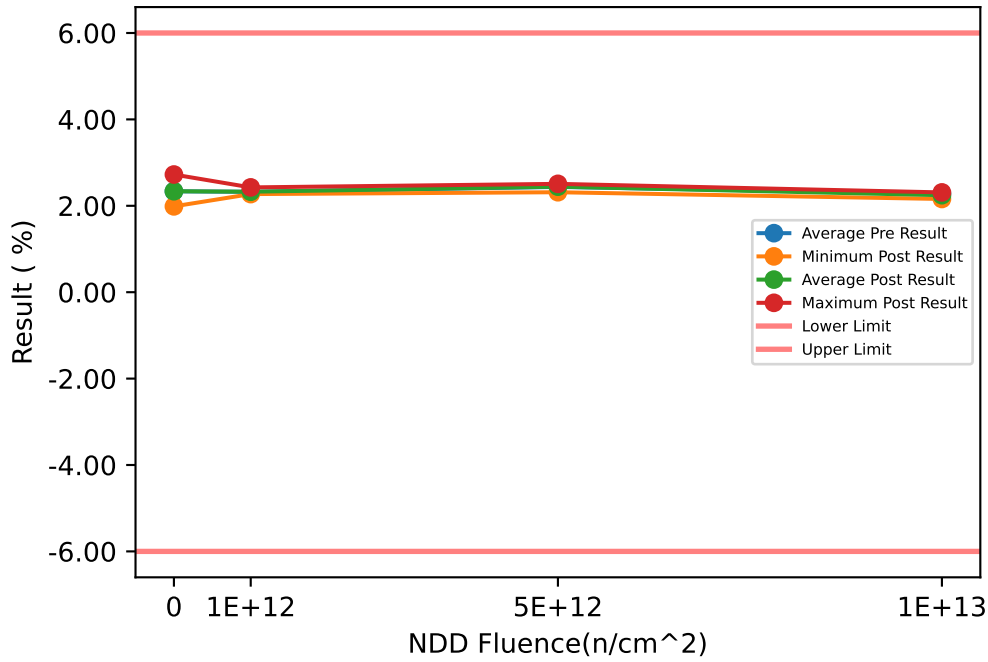


## Test Statistics ( % )

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2.139	-1.9803	-1.734	0.21626	-2.134	-1.9843	-1.748	0.20708	-0.014	-0.004	0.005	0.0095394
1e+12	-1.996	-1.8713	-1.774	0.1135	-1.995	-1.8817	-1.789	0.10454	-0.017	-0.010333	0.001	0.0098658
5e+12	-2.148	-2.028	-1.805	0.19331	-2.174	-2.0313	-1.796	0.20533	-0.026	-0.0033333	0.009	0.019655
1e+13	-2.451	-2.1437	-1.932	0.2724	-2.506	-2.1583	-1.935	0.30513	-0.055	-0.014667	0.014	0.035949

# Device Test: 12.29 UJJ3KD(Delta\_RDSON\_28V\_CH1CH2\_UJJ3KD)

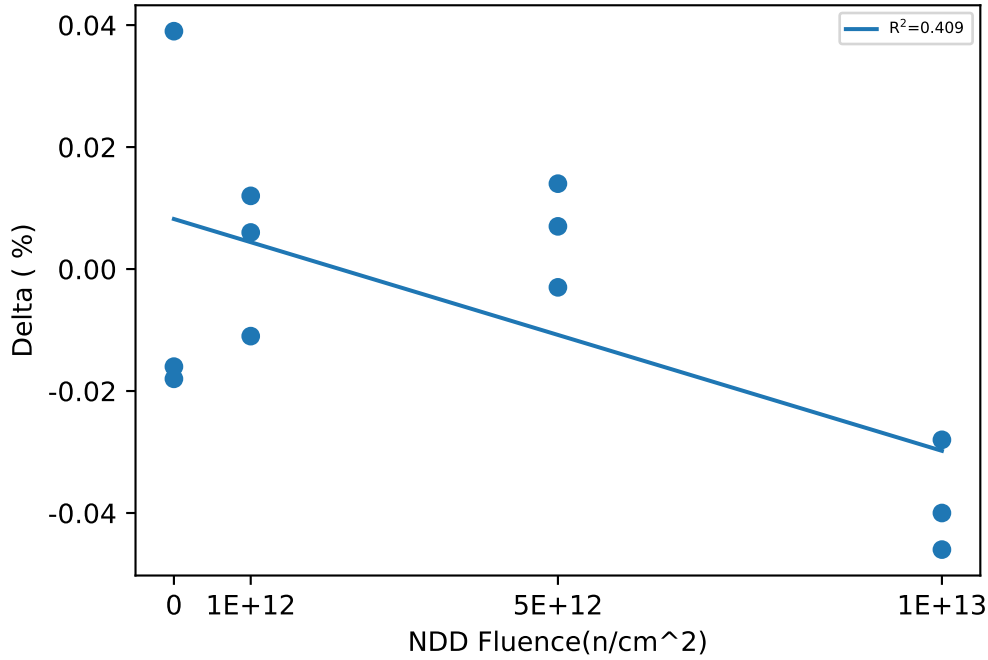
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2.274	2.28	0.006
2	1e+12	NDD, unbiased	2.282	2.271	-0.011
3	1e+12	NDD, unbiased	2.414	2.426	0.012
4	5e+12	NDD, unbiased	2.3	2.314	0.014
5	5e+12	NDD, unbiased	2.511	2.508	-0.003
6	5e+12	NDD, unbiased	2.499	2.506	0.007
7	1e+13	NDD, unbiased	2.338	2.31	-0.028
8	1e+13	NDD, unbiased	2.308	2.268	-0.04
9	1e+13	NDD, unbiased	2.204	2.158	-0.046
10	0	correlation	2.261	2.3	0.039
11	0	correlation	2.742	2.724	-0.018
12	0	correlation	2.003	1.987	-0.016

## NDD vs Post - Pre Exposure Delta

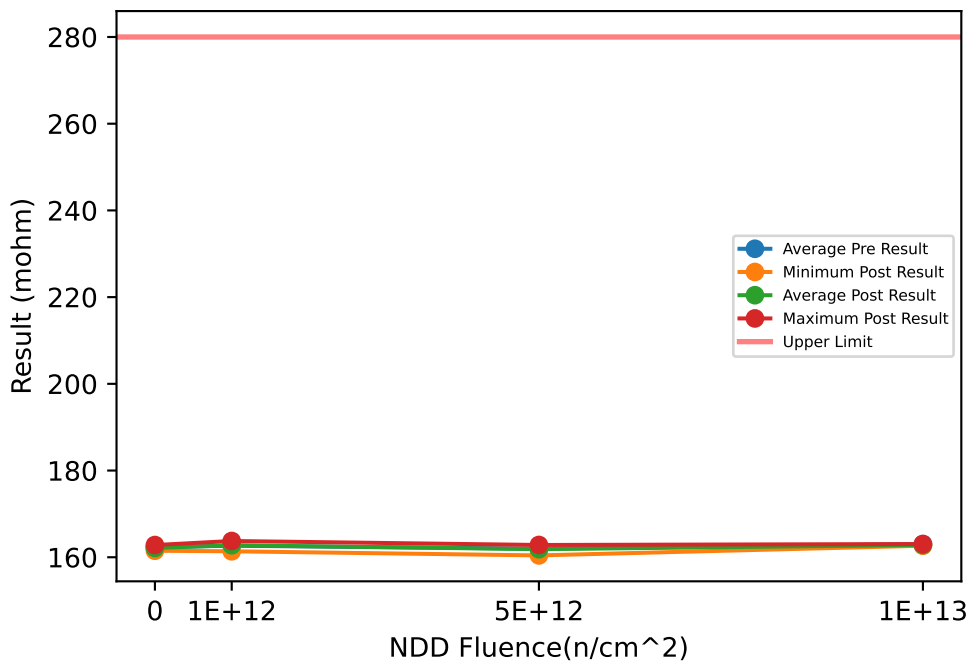


## Test Statistics ( %)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.003	2.3353	2.742	0.37507	1.987	2.337	2.724	0.36989	-0.018	0.0016667	0.039	0.032347
1e+12	2.274	2.3233	2.414	0.078621	2.271	2.3257	2.426	0.087008	-0.011	0.0023333	0.012	0.01193
5e+12	2.3	2.4367	2.511	0.11851	2.314	2.4427	2.508	0.11143	-0.003	0.006	0.014	0.008544
1e+13	2.204	2.2833	2.338	0.070323	2.158	2.2453	2.31	0.078494	-0.046	-0.038	-0.028	0.0091652

# Device Test: 12.3 UJ4ZR4(RDSON\_28V\_OUT1\_UJE410\_UJ4ZR4)

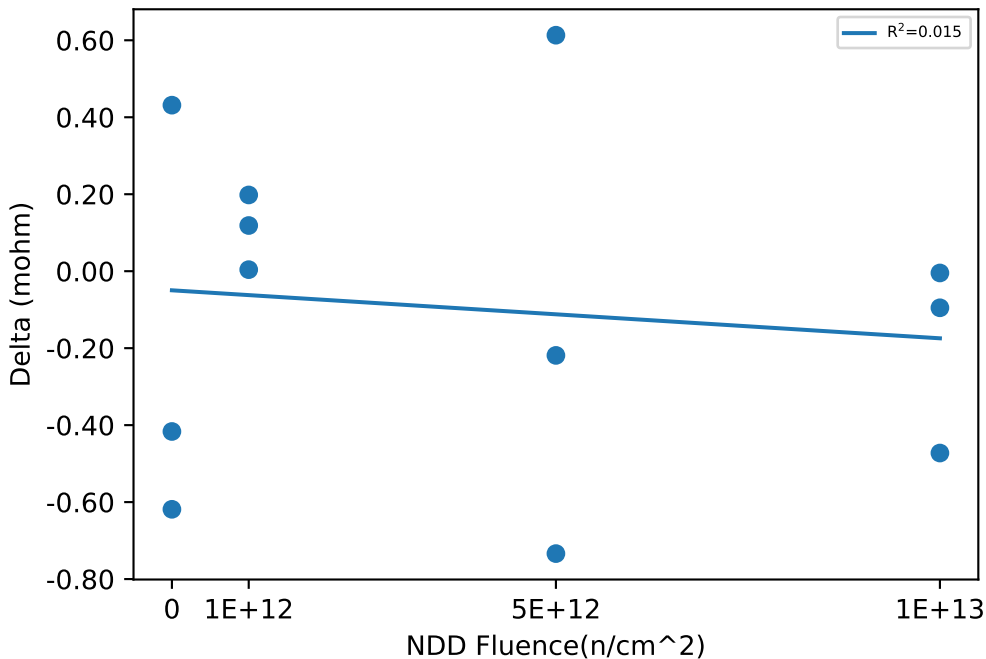
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	161.26	161.38	0.1187
2	1e+12	NDD, unbiased	163.55	163.75	0.1981
3	1e+12	NDD, unbiased	163.17	163.18	0.004
4	5e+12	NDD, unbiased	160.65	160.43	-0.2188
5	5e+12	NDD, unbiased	161.71	162.32	0.6132
6	5e+12	NDD, unbiased	163.57	162.83	-0.7338
7	1e+13	NDD, unbiased	163.26	162.78	-0.4725
8	1e+13	NDD, unbiased	163.06	163.05	-0.0046
9	1e+13	NDD, unbiased	162.75	162.66	-0.0951
10	0	correlation	162.71	162.09	-0.6187
11	0	correlation	162.39	162.82	0.4314
12	0	correlation	161.92	161.5	-0.4165

## NDD vs Post - Pre Exposure Delta

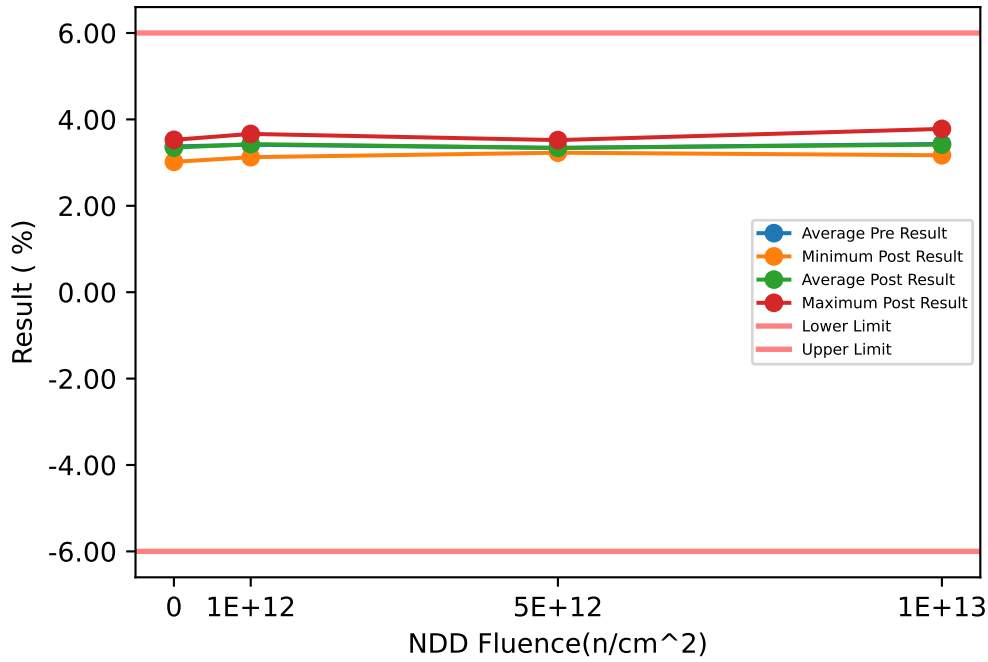


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	161.92	162.34	162.71	0.39943	161.5	162.14	162.82	0.6594	-0.6187	-0.20127	0.4314	0.55715
1e+12	161.26	162.66	163.55	1.2301	161.38	162.77	163.75	1.2387	0.004	0.10693	0.1981	0.097584
5e+12	160.65	161.97	163.57	1.4774	160.43	161.86	162.83	1.2665	-0.7338	-0.11313	0.6132	0.67969
1e+13	162.75	163.02	163.26	0.25395	162.66	162.83	163.05	0.20048	-0.4725	-0.19073	-0.0046	0.24818

# Device Test: 12.30 UJJ3KD(Delta\_RDSON\_28V\_CH1CH3\_UJJ3KD)

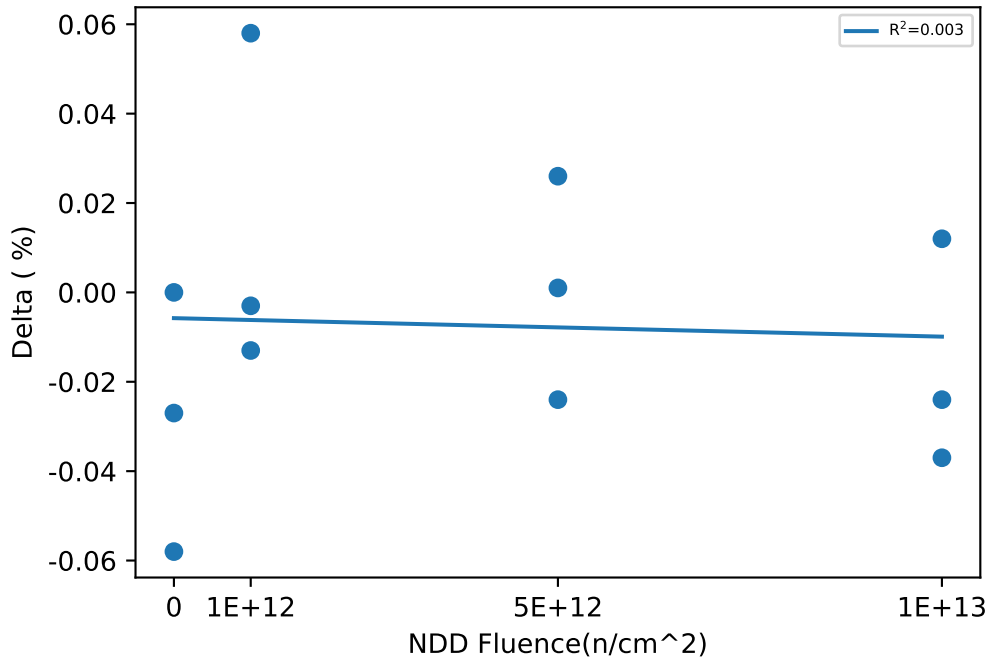
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.496	3.493	-0.003
2	1e+12	NDD, unbiased	3.606	3.664	0.058
3	1e+12	NDD, unbiased	3.138	3.125	-0.013
4	5e+12	NDD, unbiased	3.253	3.229	-0.024
5	5e+12	NDD, unbiased	3.495	3.521	0.026
6	5e+12	NDD, unbiased	3.271	3.272	0.001
7	1e+13	NDD, unbiased	3.334	3.297	-0.037
8	1e+13	NDD, unbiased	3.804	3.78	-0.024
9	1e+13	NDD, unbiased	3.158	3.17	0.012
10	0	correlation	3.554	3.527	-0.027
11	0	correlation	3.493	3.493	0
12	0	correlation	3.076	3.018	-0.058

## NDD vs Post - Pre Exposure Delta

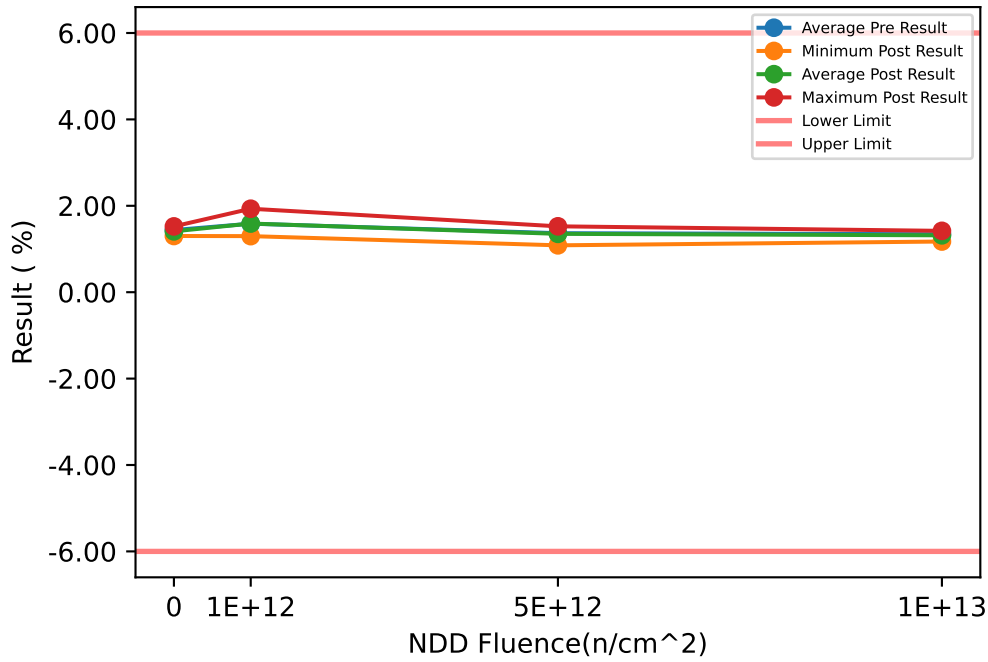


## Test Statistics ( %)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.076	3.3743	3.554	0.26016	3.018	3.346	3.527	0.28456	-0.058	-0.028333	0	0.029023
1e+12	3.138	3.4133	3.606	0.24471	3.125	3.4273	3.664	0.27543	-0.013	0.014	0.058	0.038432
5e+12	3.253	3.3397	3.495	0.13482	3.229	3.3407	3.521	0.15765	-0.024	0.001	0.026	0.025
1e+13	3.158	3.432	3.804	0.33396	3.17	3.4157	3.78	0.32185	-0.037	-0.016333	0.012	0.025384

# Device Test: 12.31 UJJ3KD(Delta\_RDSON\_28V\_CH1CH4\_UJJ3KD)

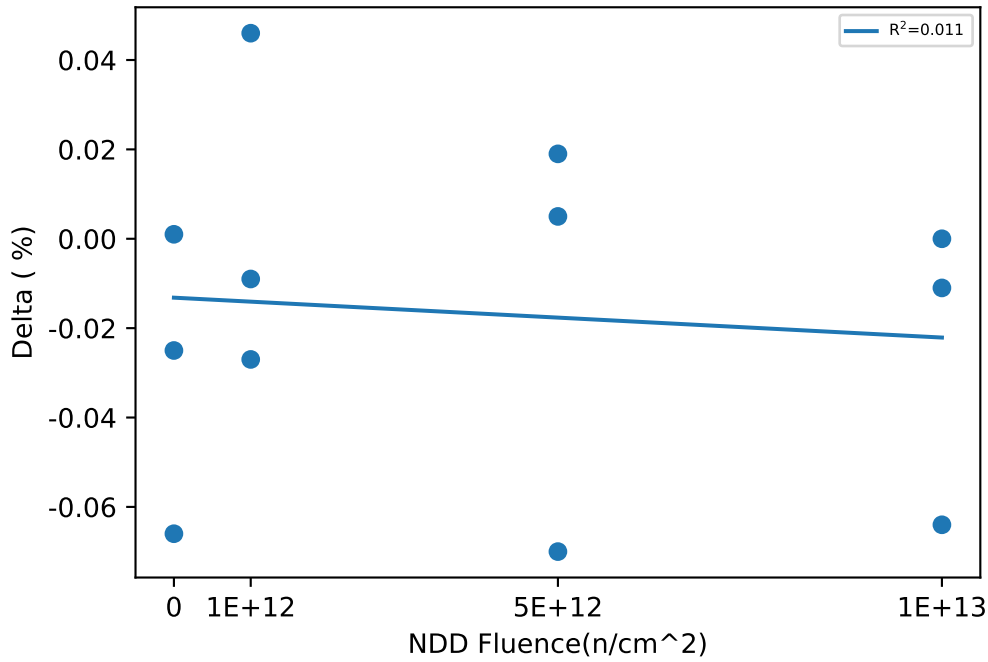
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.547	1.538	-0.009
2	1e+12	NDD, unbiased	1.886	1.932	0.046
3	1e+12	NDD, unbiased	1.325	1.298	-0.027
4	5e+12	NDD, unbiased	1.155	1.085	-0.07
5	5e+12	NDD, unbiased	1.423	1.442	0.019
6	5e+12	NDD, unbiased	1.52	1.525	0.005
7	1e+13	NDD, unbiased	1.431	1.42	-0.011
8	1e+13	NDD, unbiased	1.421	1.357	-0.064
9	1e+13	NDD, unbiased	1.173	1.173	0
10	0	correlation	1.548	1.523	-0.025
11	0	correlation	1.401	1.402	0.001
12	0	correlation	1.367	1.301	-0.066

## NDD vs Post - Pre Exposure Delta

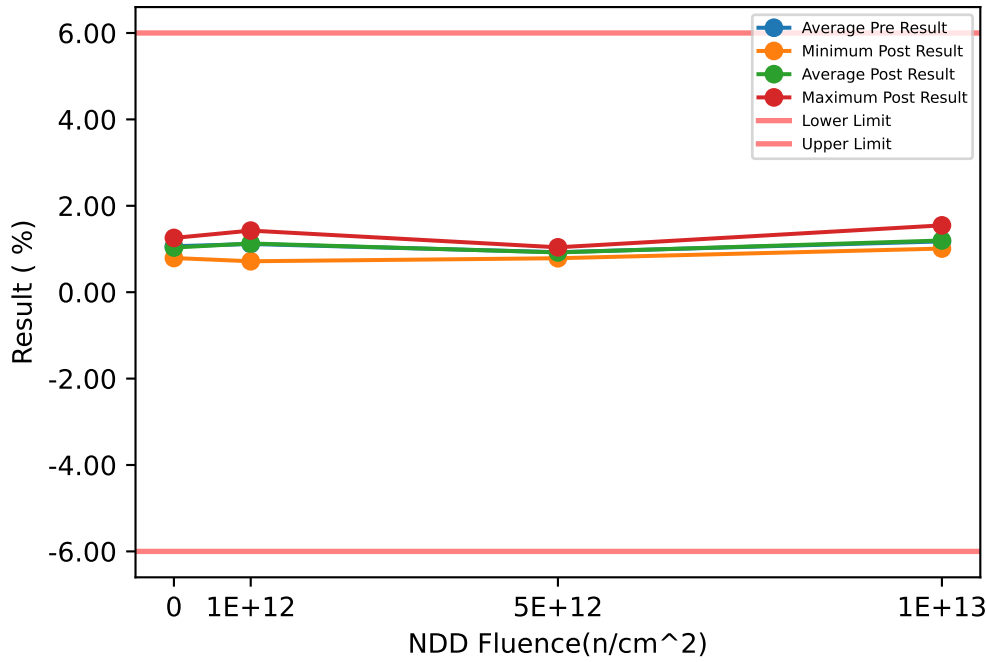


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.367	1.4387	1.548	0.096199	1.301	1.4087	1.523	0.11115	-0.066	-0.03	0.001	0.033779
1e+12	1.325	1.586	1.886	0.28253	1.298	1.5893	1.932	0.3201	-0.027	0.0033333	0.046	0.038031
5e+12	1.155	1.366	1.52	0.18906	1.085	1.3507	1.525	0.23379	-0.07	-0.015333	0.019	0.047857
1e+13	1.173	1.3417	1.431	0.14616	1.173	1.3167	1.42	0.12834	-0.064	-0.025	0	0.03422

# Device Test: 12.32 UJJ3KD(Delta\_RDSON\_28V\_CH2CH3\_UJJ3KD)

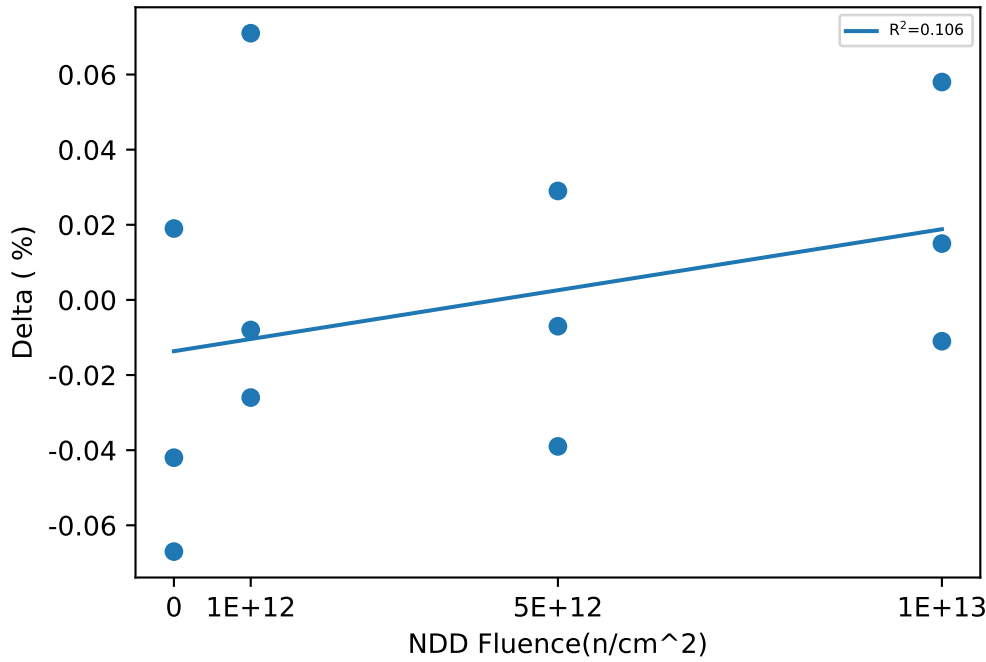
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.25	1.242	-0.008
2	1e+12	NDD, unbiased	1.355	1.426	0.071
3	1e+12	NDD, unbiased	0.742	0.716	-0.026
4	5e+12	NDD, unbiased	0.975	0.936	-0.039
5	5e+12	NDD, unbiased	1.01	1.039	0.029
6	5e+12	NDD, unbiased	0.793	0.786	-0.007
7	1e+13	NDD, unbiased	1.021	1.01	-0.011
8	1e+13	NDD, unbiased	1.532	1.547	0.015
9	1e+13	NDD, unbiased	0.976	1.034	0.058
10	0	correlation	1.323	1.256	-0.067
11	0	correlation	0.772	0.791	0.019
12	0	correlation	1.094	1.052	-0.042

## NDD vs Post - Pre Exposure Delta

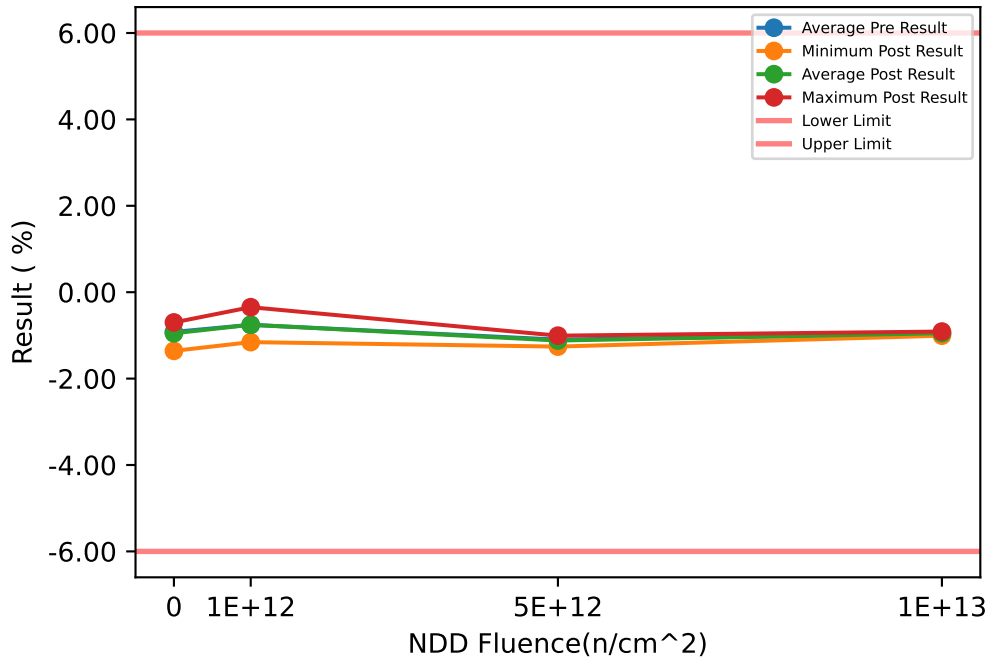


## Test Statistics ( %)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.772	1.063	1.323	0.2768	0.791	1.033	1.256	0.23308	-0.067	-0.03	0.019	0.044238
1e+12	0.742	1.1157	1.355	0.32784	0.716	1.128	1.426	0.36847	-0.026	0.012333	0.071	0.051598
5e+12	0.793	0.926	1.01	0.1165	0.786	0.92033	1.039	0.12723	-0.039	-0.0056667	0.029	0.03402
1e+13	0.976	1.1763	1.532	0.30884	1.01	1.197	1.547	0.30335	-0.011	0.020667	0.058	0.034847

# Device Test: 12.33 UJJ3KD(Delta\_RDSON\_28V\_CH2CH4\_UJJ3KD)

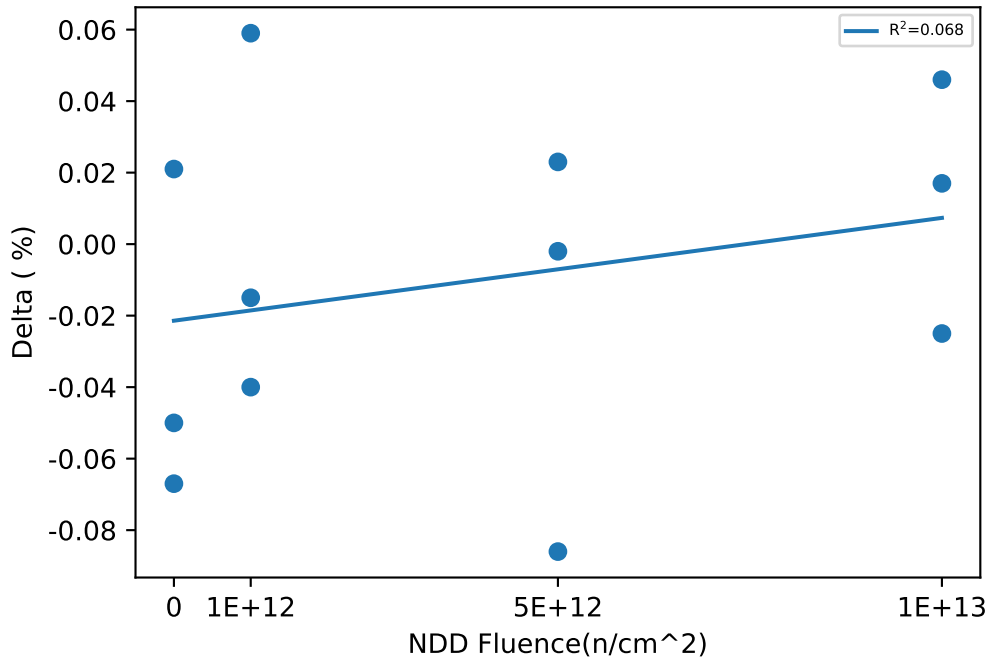
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.744	-0.759	-0.015
2	1e+12	NDD, unbiased	-0.406	-0.347	0.059
3	1e+12	NDD, unbiased	-1.116	-1.156	-0.04
4	5e+12	NDD, unbiased	-1.173	-1.259	-0.086
5	5e+12	NDD, unbiased	-1.116	-1.093	0.023
6	5e+12	NDD, unbiased	-1.004	-1.006	-0.002
7	1e+13	NDD, unbiased	-0.928	-0.911	0.017
8	1e+13	NDD, unbiased	-0.907	-0.932	-0.025
9	1e+13	NDD, unbiased	-1.053	-1.007	0.046
10	0	correlation	-0.729	-0.796	-0.067
11	0	correlation	-1.379	-1.358	0.021
12	0	correlation	-0.65	-0.7	-0.05

## NDD vs Post - Pre Exposure Delta

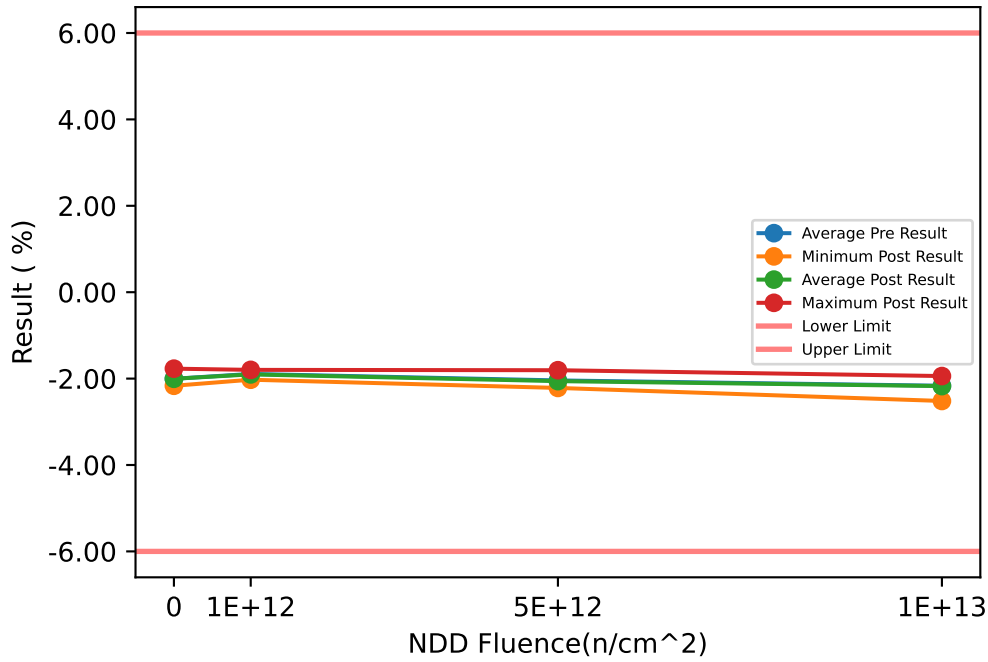


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.379	-0.91933	-0.65	0.40004	-1.358	-0.95133	-0.7	0.35544	-0.067	-0.032	0.021	0.04668
1e+12	-1.116	-0.75533	-0.406	0.35514	-1.156	-0.754	-0.347	0.40452	-0.04	0.0013333	0.059	0.051481
5e+12	-1.173	-1.0977	-1.004	0.085979	-1.259	-1.1193	-1.006	0.12854	-0.086	-0.021667	0.023	0.057099
1e+13	-1.053	-0.96267	-0.907	0.078932	-1.007	-0.95	-0.911	0.050468	-0.025	0.012667	0.046	0.035698

# Device Test: 12.34 UJJ3KD(Delta\_RDSON\_28V\_CH3CH4\_UJJ3KD)

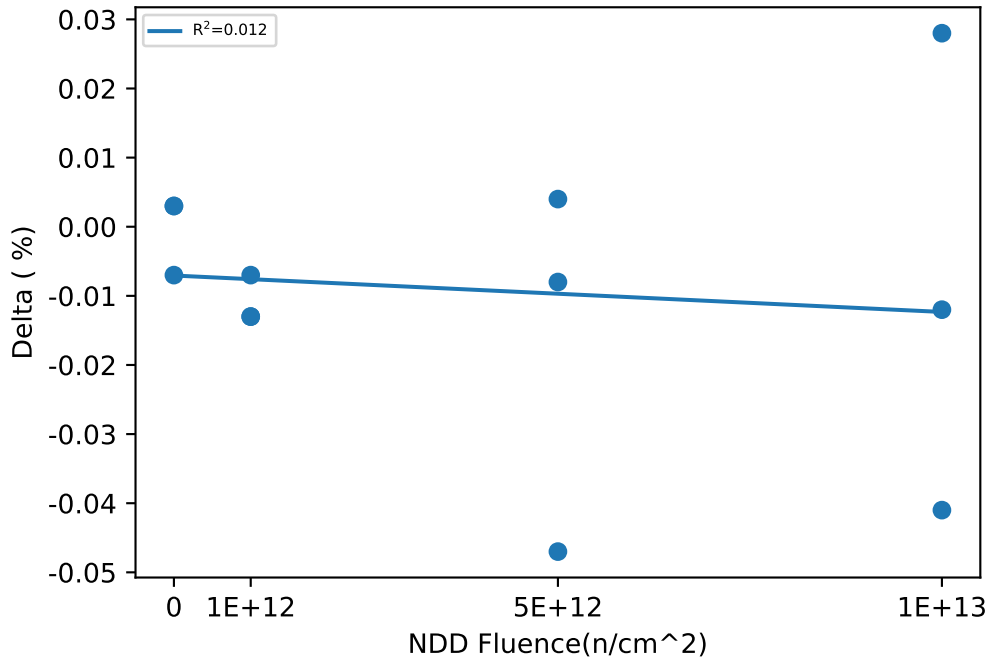
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-2.019	-2.026	-0.007
2	1e+12	NDD, unbiased	-1.785	-1.798	-0.013
3	1e+12	NDD, unbiased	-1.872	-1.885	-0.013
4	5e+12	NDD, unbiased	-2.169	-2.216	-0.047
5	5e+12	NDD, unbiased	-2.147	-2.155	-0.008
6	5e+12	NDD, unbiased	-1.81	-1.806	0.004
7	1e+13	NDD, unbiased	-1.969	-1.941	0.028
8	1e+13	NDD, unbiased	-2.477	-2.518	-0.041
9	1e+13	NDD, unbiased	-2.05	-2.062	-0.012
10	0	correlation	-2.08	-2.077	0.003
11	0	correlation	-2.169	-2.166	0.003
12	0	correlation	-1.763	-1.77	-0.007

## NDD vs Post - Pre Exposure Delta



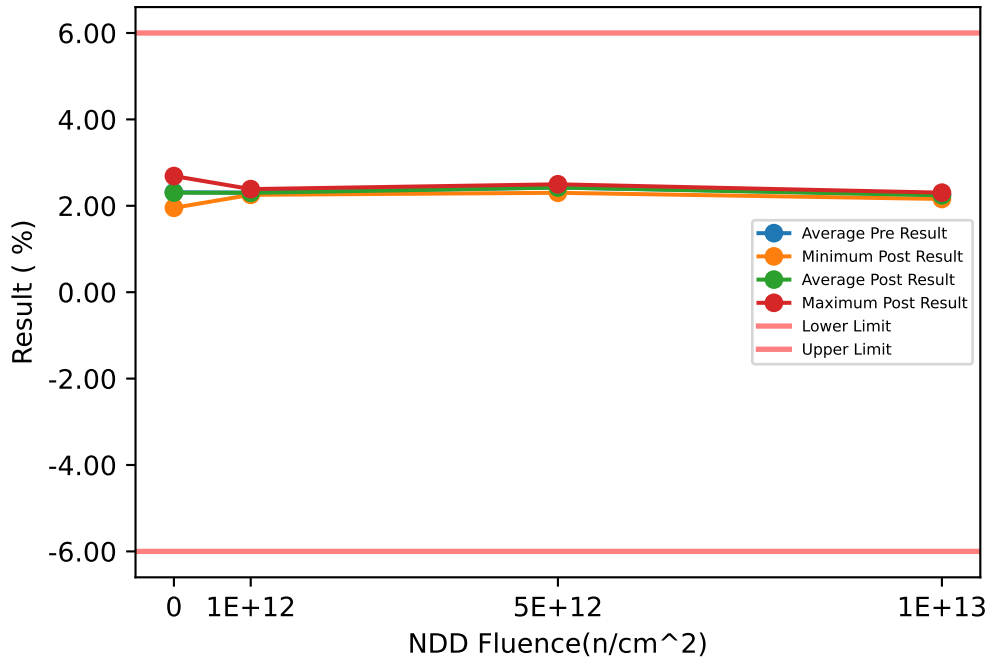
## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2.169	-2.004	-1.763	0.2134	-2.166	-2.0043	-1.77	0.20776	-0.007	-0.00033333	0.003	0.0057735
1e+12	-2.019	-1.892	-1.785	0.11828	-2.026	-1.903	-1.798	0.11506	-0.013	-0.011	-0.007	0.0034641
5e+12	-2.169	-2.042	-1.81	0.20122	-2.216	-2.059	-1.806	0.22122	-0.047	-0.017	0.004	0.026665
1e+13	-2.477	-2.1653	-1.969	0.27293	-2.518	-2.1737	-1.941	0.30428	-0.041	-0.0083333	0.028	0.034646



# Device Test: 12.35 UJJ3KD(Delta\_RDSON\_32V\_CH1CH2\_UJJ3KD)

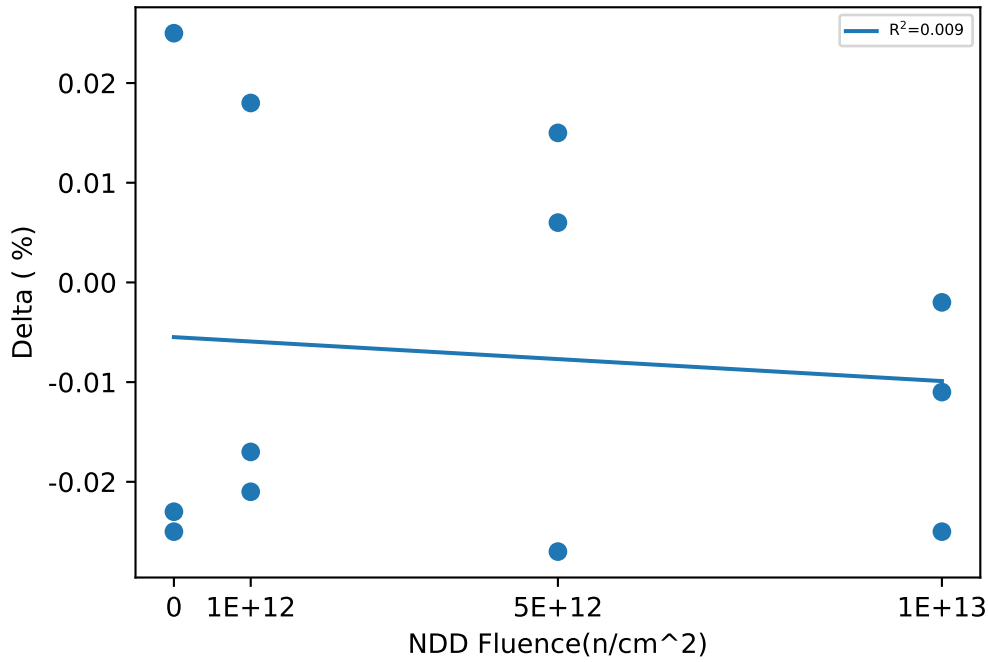
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2.236	2.254	0.018
2	1e+12	NDD, unbiased	2.274	2.257	-0.017
3	1e+12	NDD, unbiased	2.408	2.387	-0.021
4	5e+12	NDD, unbiased	2.295	2.301	0.006
5	5e+12	NDD, unbiased	2.483	2.498	0.015
6	5e+12	NDD, unbiased	2.495	2.468	-0.027
7	1e+13	NDD, unbiased	2.306	2.304	-0.002
8	1e+13	NDD, unbiased	2.29	2.265	-0.025
9	1e+13	NDD, unbiased	2.169	2.158	-0.011
10	0	correlation	2.246	2.271	0.025
11	0	correlation	2.714	2.689	-0.025
12	0	correlation	1.976	1.953	-0.023

## NDD vs Post - Pre Exposure Delta

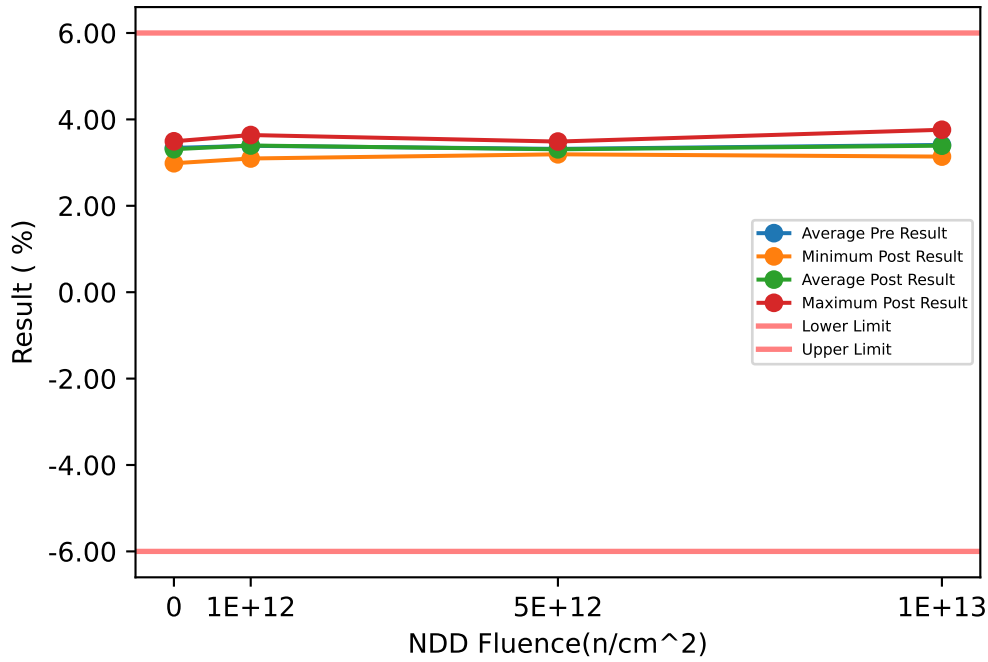


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.976	2.312	2.714	0.3734	1.953	2.3043	2.689	0.36913	-0.025	-0.0076667	0.025	0.028308
1e+12	2.236	2.306	2.408	0.090355	2.254	2.2993	2.387	0.075936	-0.021	-0.0066667	0.018	0.021455
5e+12	2.295	2.4243	2.495	0.11217	2.301	2.4223	2.498	0.10614	-0.027	-0.002	0.015	0.022113
1e+13	2.169	2.255	2.306	0.074907	2.158	2.2423	2.304	0.075593	-0.025	-0.012667	-0.002	0.01159

# Device Test: 12.36 UJJ3KD(Delta\_RDSON\_32V\_CH1CH3\_UJJ3KD)

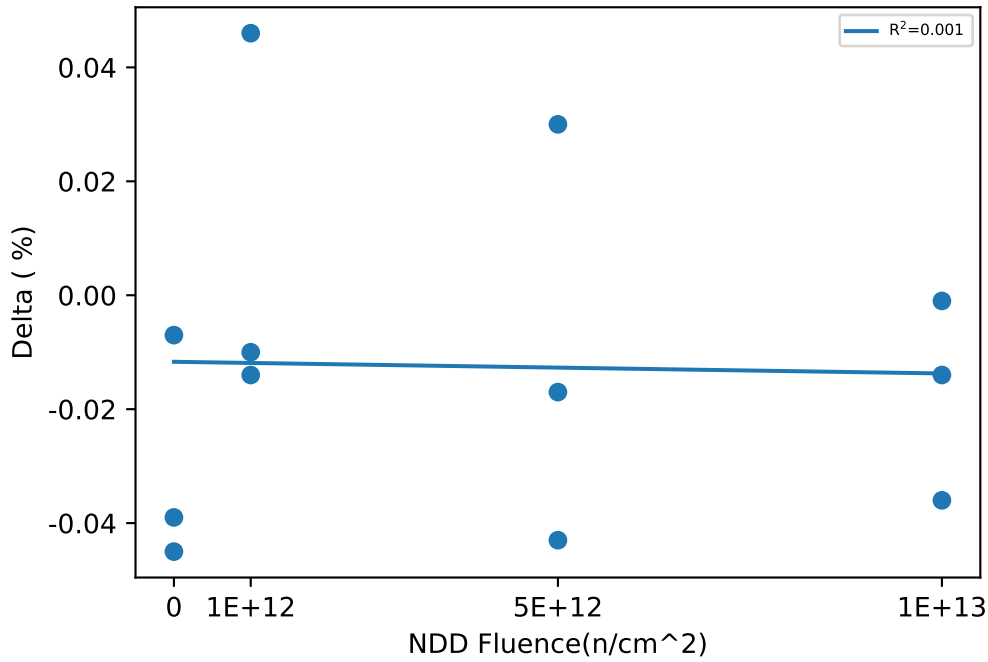
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.464	3.454	-0.01
2	1e+12	NDD, unbiased	3.592	3.638	0.046
3	1e+12	NDD, unbiased	3.109	3.095	-0.014
4	5e+12	NDD, unbiased	3.235	3.192	-0.043
5	5e+12	NDD, unbiased	3.457	3.487	0.03
6	5e+12	NDD, unbiased	3.26	3.243	-0.017
7	1e+13	NDD, unbiased	3.312	3.276	-0.036
8	1e+13	NDD, unbiased	3.774	3.76	-0.014
9	1e+13	NDD, unbiased	3.14	3.139	-0.001
10	0	correlation	3.532	3.493	-0.039
11	0	correlation	3.46	3.453	-0.007
12	0	correlation	3.03	2.985	-0.045

## NDD vs Post - Pre Exposure Delta

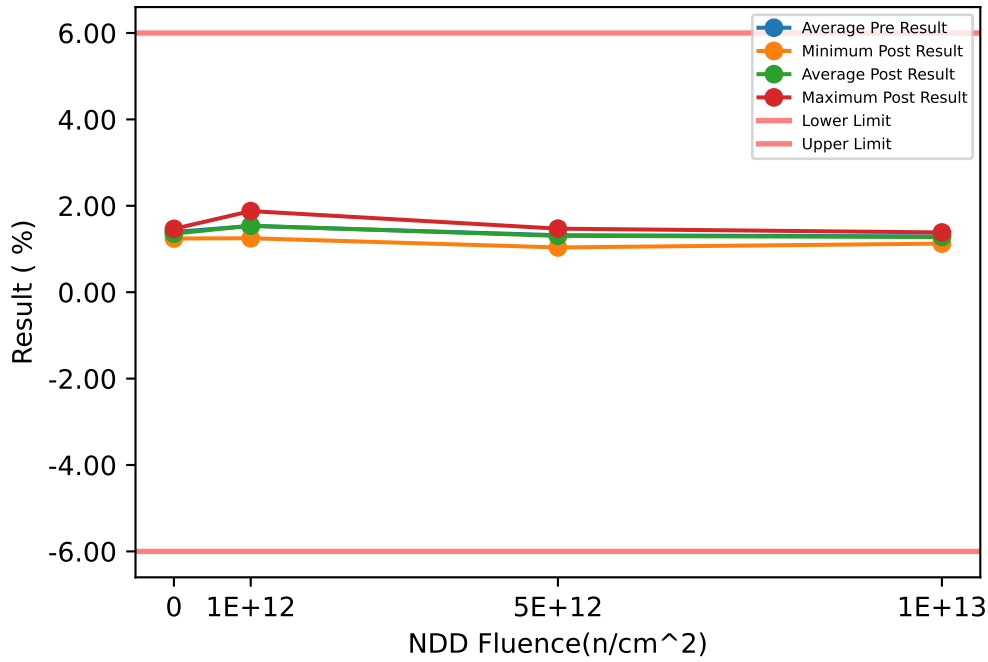


## Test Statistics ( % )

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.03	3.3407	3.532	0.27144	2.985	3.3103	3.493	0.28246	-0.045	-0.030333	-0.007	0.020429
1e+12	3.109	3.3883	3.592	0.25023	3.095	3.3957	3.638	0.27616	-0.014	0.0073333	0.046	0.033546
5e+12	3.235	3.3173	3.457	0.1216	3.192	3.3073	3.487	0.15767	-0.043	-0.01	0.03	0.037
1e+13	3.14	3.4087	3.774	0.32787	3.139	3.3917	3.76	0.32626	-0.036	-0.017	-0.001	0.017692

# Device Test: 12.37 UJJ3KD(Delta\_RDSON\_32V\_CH1CH4\_UJJ3KD)

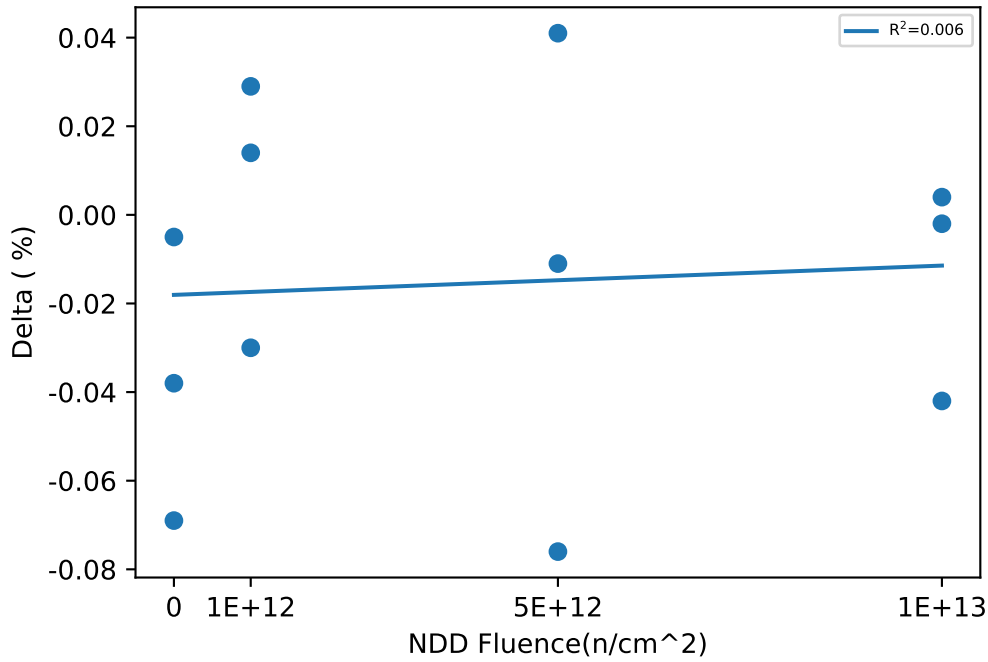
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.475	1.489	0.014
2	1e+12	NDD, unbiased	1.849	1.878	0.029
3	1e+12	NDD, unbiased	1.279	1.249	-0.03
4	5e+12	NDD, unbiased	1.112	1.036	-0.076
5	5e+12	NDD, unbiased	1.363	1.404	0.041
6	5e+12	NDD, unbiased	1.482	1.471	-0.011
7	1e+13	NDD, unbiased	1.385	1.383	-0.002
8	1e+13	NDD, unbiased	1.367	1.325	-0.042
9	1e+13	NDD, unbiased	1.121	1.125	0.004
10	0	correlation	1.504	1.466	-0.038
11	0	correlation	1.36	1.355	-0.005
12	0	correlation	1.312	1.243	-0.069

## NDD vs Post - Pre Exposure Delta

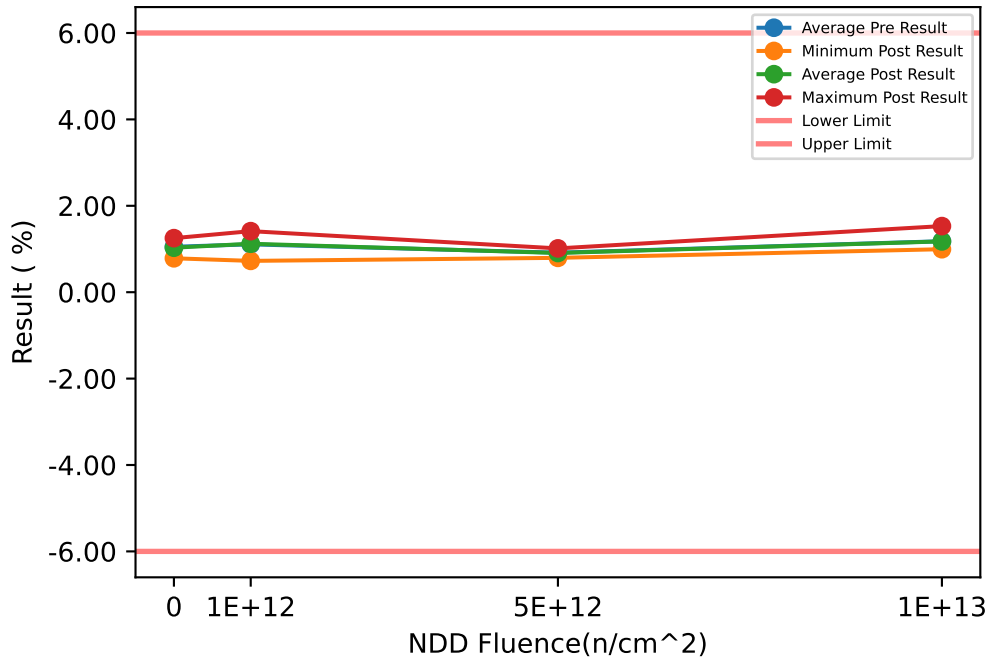


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.312	1.392	1.504	0.09992	1.243	1.3547	1.466	0.1115	-0.069	-0.037333	-0.005	0.032005
1e+12	1.279	1.5343	1.849	0.2896	1.249	1.5387	1.878	0.31743	-0.03	0.0043333	0.029	0.030665
5e+12	1.112	1.319	1.482	0.18888	1.036	1.3037	1.471	0.23421	-0.076	-0.015333	0.041	0.05862
1e+13	1.121	1.291	1.385	0.1475	1.125	1.2777	1.383	0.13536	-0.042	-0.013333	0.004	0.025007

# Device Test: 12.38 UJJ3KD(Delta\_RDSON\_32V\_CH2CH3\_UJJ3KD)

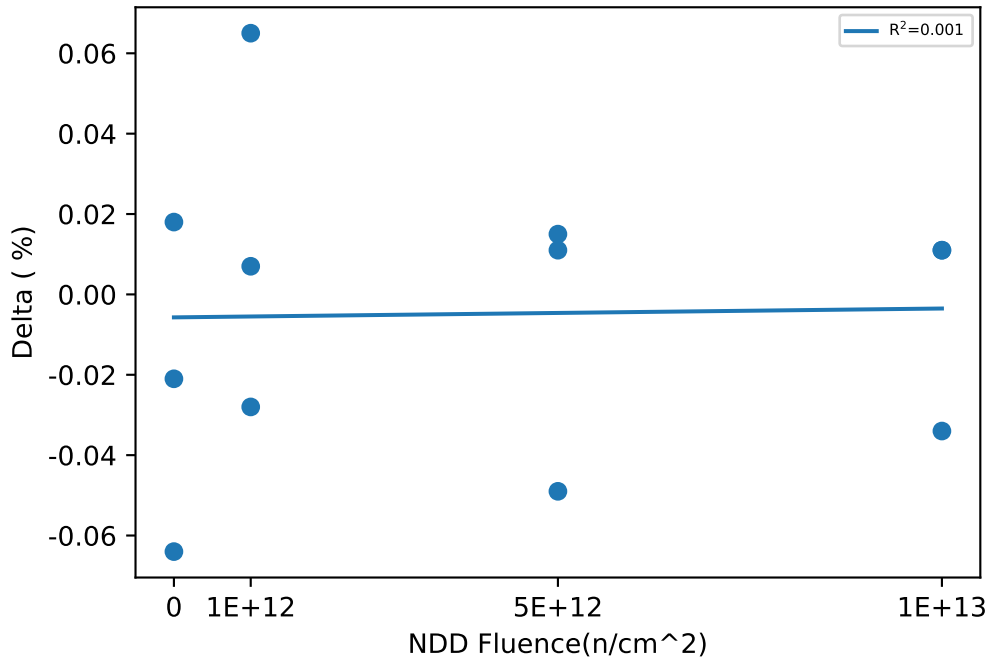
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.256	1.228	-0.028
2	1e+12	NDD, unbiased	1.348	1.413	0.065
3	1e+12	NDD, unbiased	0.718	0.725	0.007
4	5e+12	NDD, unbiased	0.962	0.913	-0.049
5	5e+12	NDD, unbiased	0.999	1.014	0.015
6	5e+12	NDD, unbiased	0.784	0.795	0.011
7	1e+13	NDD, unbiased	1.029	0.995	-0.034
8	1e+13	NDD, unbiased	1.519	1.53	0.011
9	1e+13	NDD, unbiased	0.992	1.003	0.011
10	0	correlation	1.315	1.251	-0.064
11	0	correlation	0.767	0.785	0.018
12	0	correlation	1.074	1.053	-0.021

## NDD vs Post - Pre Exposure Delta

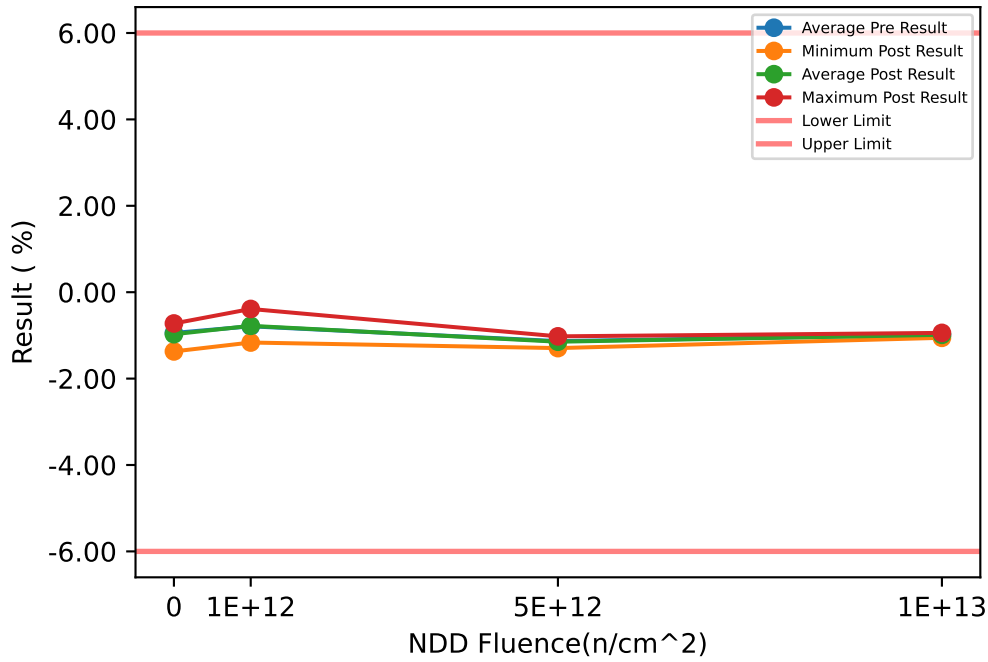


## Test Statistics ( %)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.767	1.052	1.315	0.27466	0.785	1.0297	1.251	0.23387	-0.064	-0.022333	0.018	0.041016
1e+12	0.718	1.1073	1.348	0.3403	0.725	1.122	1.413	0.35604	-0.028	0.014667	0.065	0.046972
5e+12	0.784	0.915	0.999	0.11495	0.795	0.90733	1.014	0.10961	-0.049	-0.0076667	0.015	0.035852
1e+13	0.992	1.18	1.519	0.29416	0.995	1.176	1.53	0.3066	-0.034	-0.004	0.011	0.025981

# Device Test: 12.39 UJJ3KD(Delta\_RDSON\_32V\_CH2CH4\_UJJ3KD)

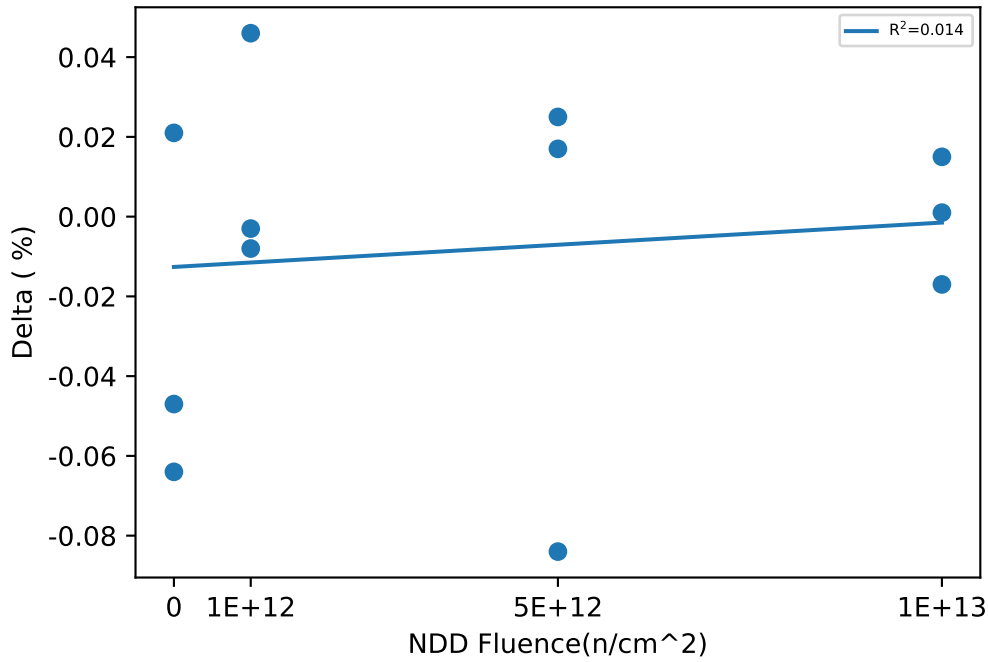
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.779	-0.782	-0.003
2	1e+12	NDD, unbiased	-0.434	-0.388	0.046
3	1e+12	NDD, unbiased	-1.157	-1.165	-0.008
4	5e+12	NDD, unbiased	-1.21	-1.294	-0.084
5	5e+12	NDD, unbiased	-1.148	-1.123	0.025
6	5e+12	NDD, unbiased	-1.039	-1.022	0.017
7	1e+13	NDD, unbiased	-0.943	-0.942	0.001
8	1e+13	NDD, unbiased	-0.945	-0.962	-0.017
9	1e+13	NDD, unbiased	-1.071	-1.056	0.015
10	0	correlation	-0.759	-0.823	-0.064
11	0	correlation	-1.392	-1.371	0.021
12	0	correlation	-0.677	-0.724	-0.047

## NDD vs Post - Pre Exposure Delta

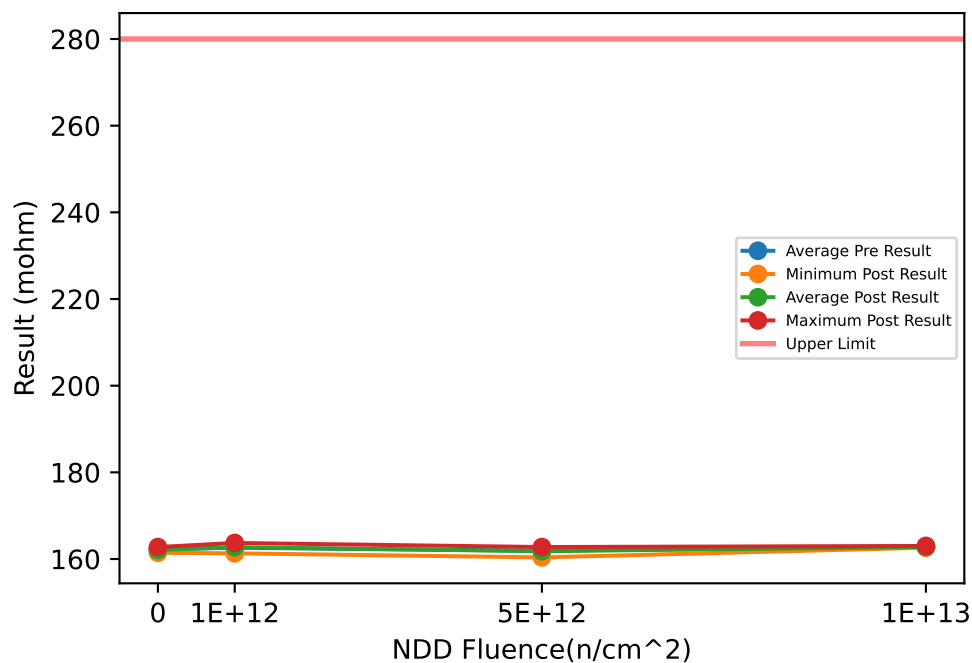


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.392	-0.94267	-0.677	0.39129	-1.371	-0.97267	-0.724	0.3485	-0.064	-0.03	0.021	0.044978
1e+12	-1.157	-0.79	-0.434	0.36163	-1.165	-0.77833	-0.388	0.38851	-0.008	0.011667	0.046	0.029838
5e+12	-1.21	-1.1323	-1.039	0.08657	-1.294	-1.1463	-1.022	0.13749	-0.084	-0.014	0.025	0.060754
1e+13	-1.071	-0.98633	-0.943	0.07333	-1.056	-0.98667	-0.942	0.060871	-0.017	-0.00033333	0.015	0.016042

# Device Test: 12.4 UJ4ZR4(RDSON\_32V\_OUT1\_UJE410\_UJ4ZR4)

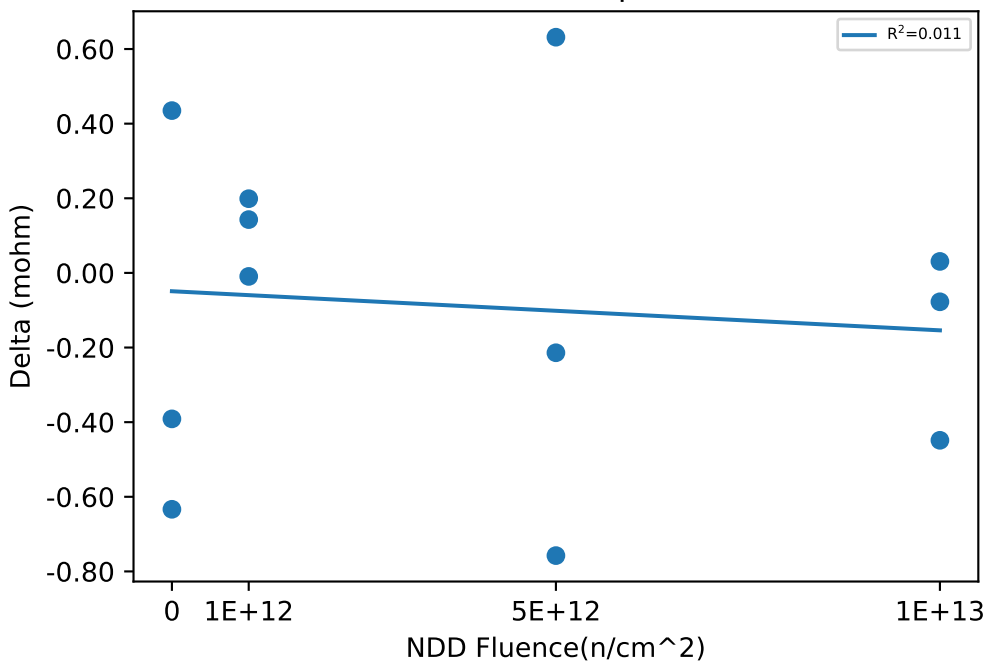
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	161.17	161.31	0.1429
2	1e+12	NDD, unbiased	163.51	163.7	0.1989
3	1e+12	NDD, unbiased	163.12	163.11	-0.0094
4	5e+12	NDD, unbiased	160.59	160.37	-0.214
5	5e+12	NDD, unbiased	161.64	162.27	0.6317
6	5e+12	NDD, unbiased	163.52	162.76	-0.7576
7	1e+13	NDD, unbiased	163.19	162.74	-0.4486
8	1e+13	NDD, unbiased	162.98	163.01	0.0308
9	1e+13	NDD, unbiased	162.69	162.61	-0.0774
10	0	correlation	162.66	162.03	-0.6335
11	0	correlation	162.33	162.76	0.435
12	0	correlation	161.83	161.44	-0.3912

## NDD vs Post - Pre Exposure Delta

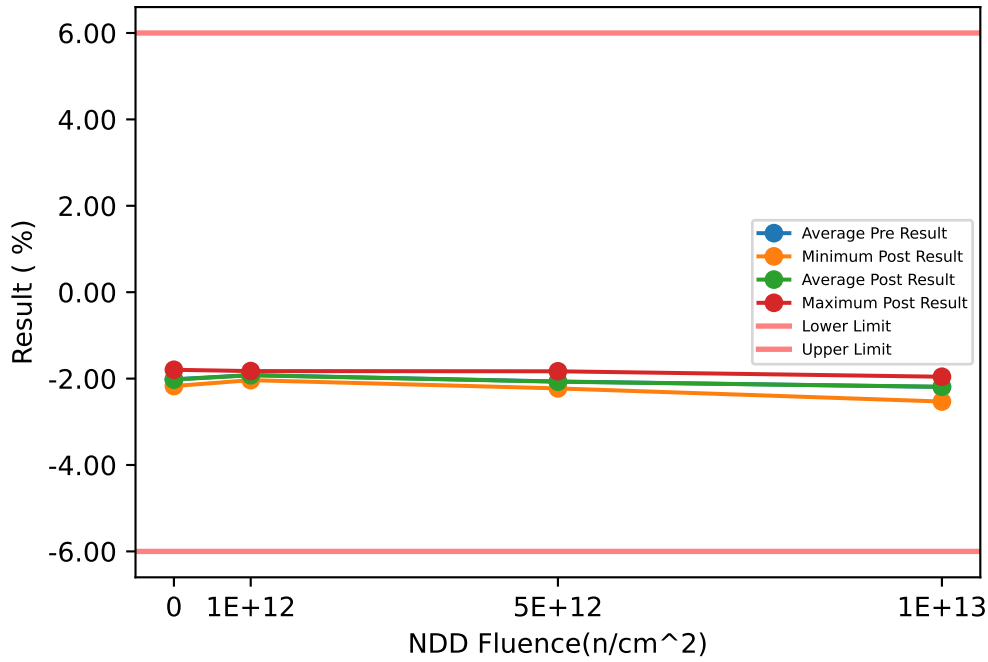


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	161.83	162.27	162.66	0.41795	161.44	162.08	162.76	0.66128	-0.6335	-0.19657	0.435	0.56021
1e+12	161.17	162.6	163.51	1.2526	161.31	162.71	163.7	1.2456	-0.0094	0.1108	0.1989	0.1078
5e+12	160.59	161.92	163.52	1.4863	160.37	161.8	162.76	1.2619	-0.7576	-0.1133	0.6317	0.7001
1e+13	162.69	162.95	163.19	0.25209	162.61	162.79	163.01	0.20435	-0.4486	-0.16507	0.0308	0.25144

# Device Test: 12.40 UJJ3KD(Delta\_RDSON\_32V\_CH3CH4\_UJJ3KD)

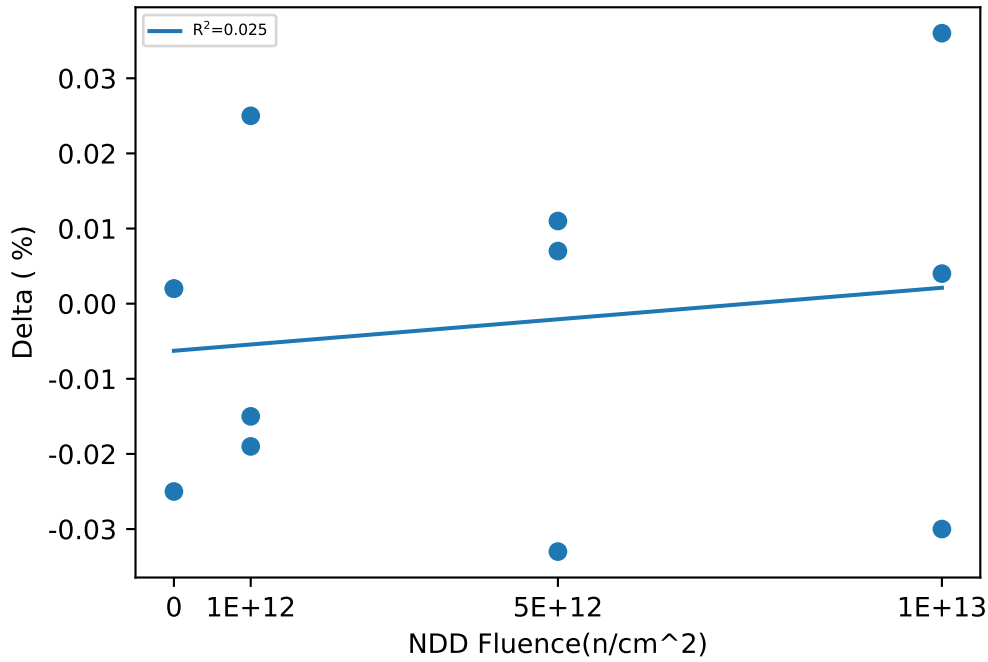
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-2.061	-2.036	0.025
2	1e+12	NDD, unbiased	-1.807	-1.826	-0.019
3	1e+12	NDD, unbiased	-1.889	-1.904	-0.015
4	5e+12	NDD, unbiased	-2.194	-2.227	-0.033
5	5e+12	NDD, unbiased	-2.169	-2.158	0.011
6	5e+12	NDD, unbiased	-1.838	-1.831	0.007
7	1e+13	NDD, unbiased	-1.993	-1.957	0.036
8	1e+13	NDD, unbiased	-2.501	-2.531	-0.03
9	1e+13	NDD, unbiased	-2.084	-2.08	0.004
10	0	correlation	-2.102	-2.1	0.002
11	0	correlation	-2.175	-2.173	0.002
12	0	correlation	-1.771	-1.796	-0.025

## NDD vs Post - Pre Exposure Delta

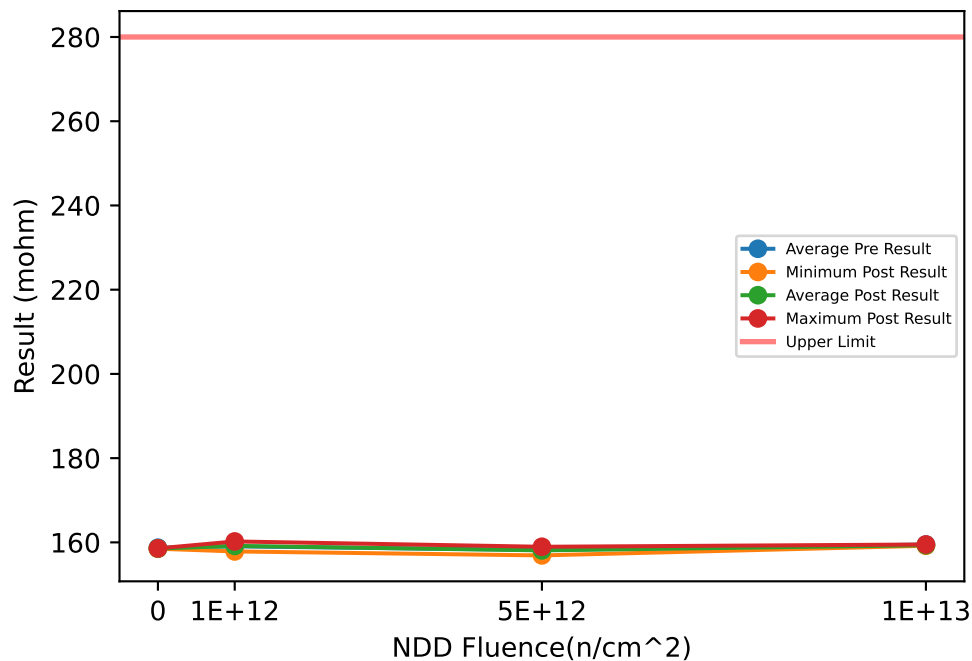


## Test Statistics ( % )

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2.175	-2.016	-1.771	0.21529	-2.173	-2.023	-1.796	0.19995	-0.025	-0.007	0.002	0.015588
1e+12	-2.061	-1.919	-1.807	0.12963	-2.036	-1.922	-1.826	0.10615	-0.019	-0.003	0.025	0.024331
5e+12	-2.194	-2.067	-1.838	0.19871	-2.227	-2.072	-1.831	0.21154	-0.033	-0.005	0.011	0.024331
1e+13	-2.501	-2.1927	-1.993	0.27087	-2.531	-2.1893	-1.957	0.30222	-0.03	0.0033333	0.036	0.033005

# Device Test: 12.5 UJ4ZR4(RDSON\_5V\_OUT2\_UJE410\_UJ4ZR4)

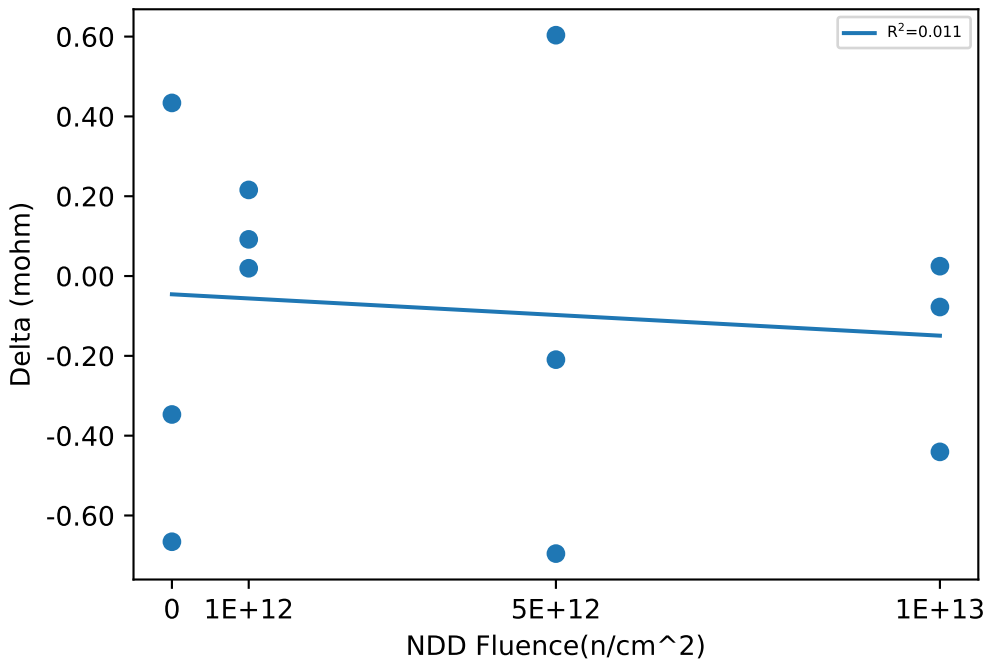
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	157.76	157.85	0.0919
2	1e+12	NDD, unbiased	160	160.22	0.2158
3	1e+12	NDD, unbiased	159.4	159.42	0.0195
4	5e+12	NDD, unbiased	157.12	156.91	-0.2095
5	5e+12	NDD, unbiased	157.83	158.43	0.6035
6	5e+12	NDD, unbiased	159.65	158.96	-0.6955
7	1e+13	NDD, unbiased	159.63	159.19	-0.4406
8	1e+13	NDD, unbiased	159.47	159.5	0.0247
9	1e+13	NDD, unbiased	159.35	159.28	-0.0776
10	0	correlation	159.21	158.54	-0.6658
11	0	correlation	158.14	158.57	0.4338
12	0	correlation	158.84	158.49	-0.3469

## NDD vs Post - Pre Exposure Delta



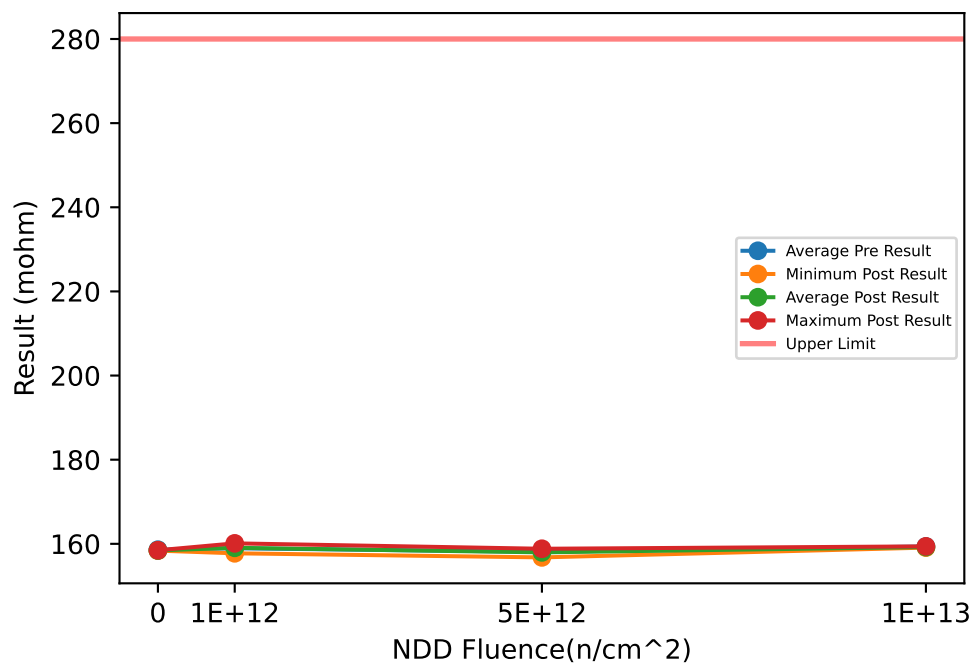
## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	158.14	158.73	159.21	0.545	158.49	158.54	158.57	0.039989	-0.6658	-0.19297	0.4338	0.56573
1e+12	157.76	159.05	160	1.163	157.85	159.16	160.22	1.2062	0.0195	0.10907	0.2158	0.09927
5e+12	157.12	158.2	159.65	1.3064	156.91	158.1	158.96	1.064	-0.6955	-0.1005	0.6035	0.65632
1e+13	159.35	159.49	159.63	0.13956	159.19	159.32	159.5	0.15832	-0.4406	-0.1645	0.0247	0.24452



# Device Test: 12.6 UJ4ZR4(RDSON\_12V\_OUT2\_UJE410\_UJ4ZR4)

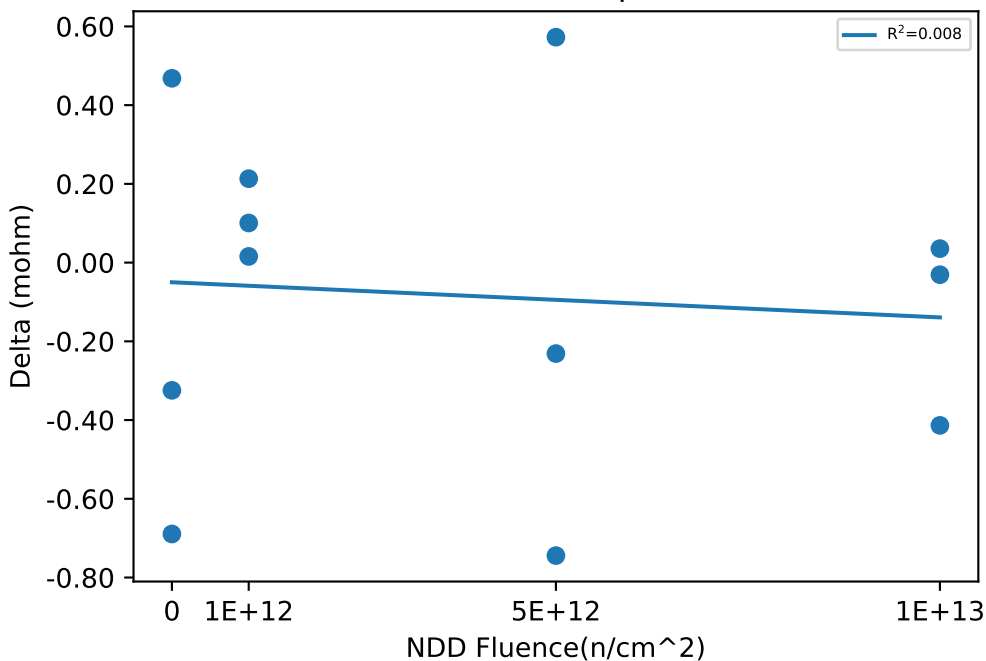
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	157.65	157.75	0.1006
2	1e+12	NDD, unbiased	159.9	160.11	0.2132
3	1e+12	NDD, unbiased	159.29	159.31	0.0157
4	5e+12	NDD, unbiased	157.01	156.78	-0.2311
5	5e+12	NDD, unbiased	157.72	158.3	0.5726
6	5e+12	NDD, unbiased	159.57	158.83	-0.7443
7	1e+13	NDD, unbiased	159.51	159.1	-0.4135
8	1e+13	NDD, unbiased	159.36	159.4	0.0355
9	1e+13	NDD, unbiased	159.24	159.21	-0.0307
10	0	correlation	159.12	158.43	-0.6894
11	0	correlation	158	158.47	0.4682
12	0	correlation	158.71	158.38	-0.3245

## NDD vs Post - Pre Exposure Delta

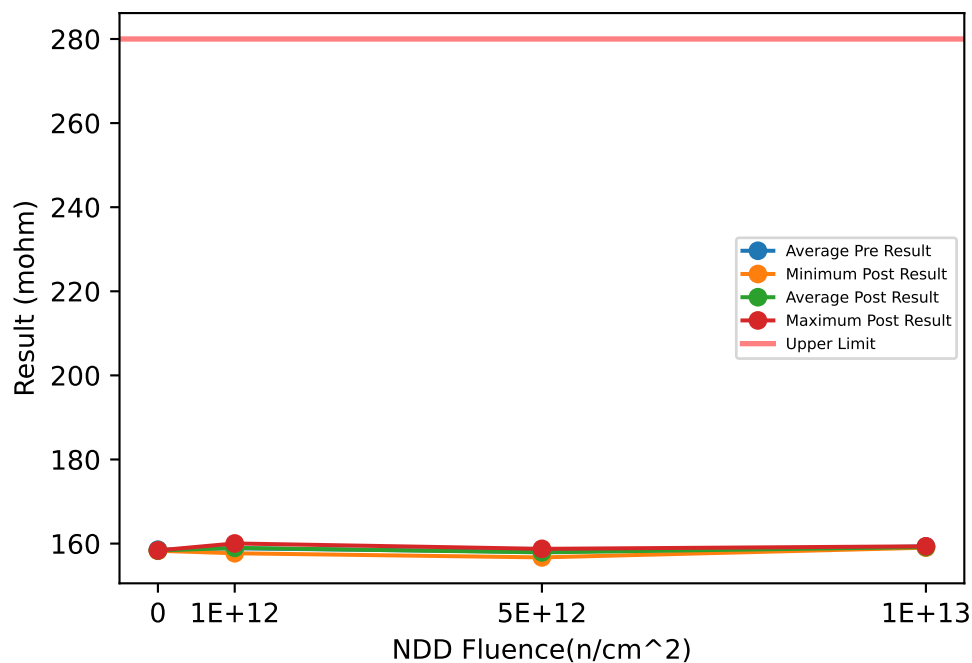


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	158	158.61	159.12	0.56587	158.38	158.43	158.47	0.043385	-0.6894	-0.1819	0.4682	0.59183
1e+12	157.65	158.95	159.9	1.1648	157.75	159.05	160.11	1.2018	0.0157	0.10983	0.2132	0.099073
5e+12	157.01	158.1	159.57	1.3248	156.78	157.97	158.83	1.0663	-0.7443	-0.13427	0.5726	0.66377
1e+13	159.24	159.37	159.51	0.13682	159.1	159.24	159.4	0.15045	-0.4135	-0.13623	0.0355	0.24239

# Device Test: 12.7 UJ4ZR4(RDSON\_28V\_OUT2\_UJE410\_UJ4ZR4)

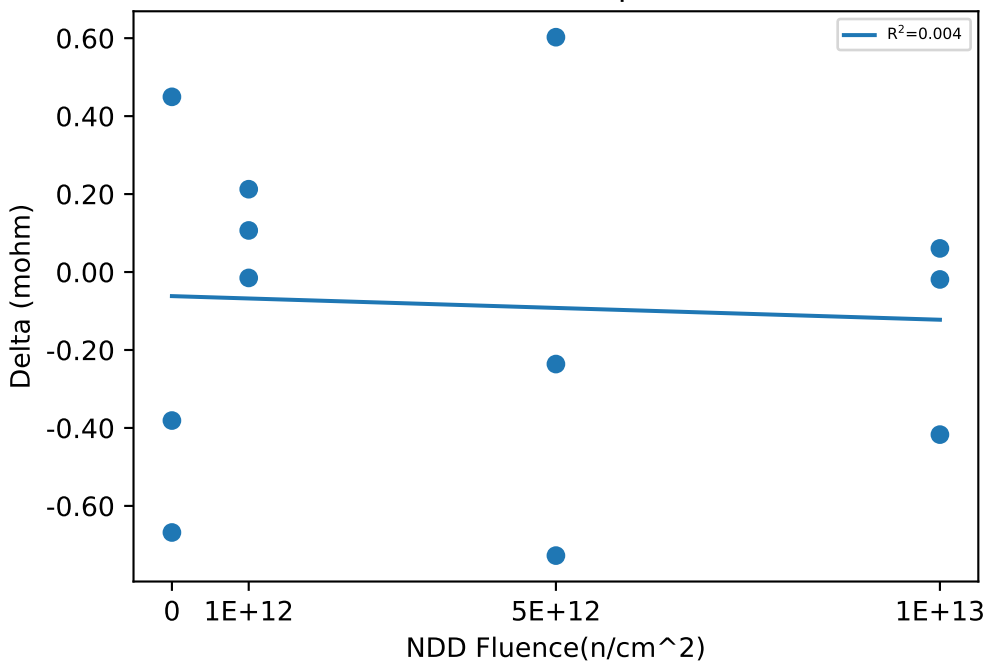
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	157.59	157.7	0.1067
2	1e+12	NDD, unbiased	159.82	160.03	0.2125
3	1e+12	NDD, unbiased	159.23	159.22	-0.0151
4	5e+12	NDD, unbiased	156.95	156.71	-0.2361
5	5e+12	NDD, unbiased	157.65	158.25	0.6025
6	5e+12	NDD, unbiased	159.48	158.75	-0.7275
7	1e+13	NDD, unbiased	159.44	159.02	-0.4171
8	1e+13	NDD, unbiased	159.29	159.35	0.0606
9	1e+13	NDD, unbiased	159.17	159.15	-0.019
10	0	correlation	159.03	158.36	-0.6682
11	0	correlation	157.93	158.38	0.4495
12	0	correlation	158.67	158.29	-0.381

## NDD vs Post - Pre Exposure Delta

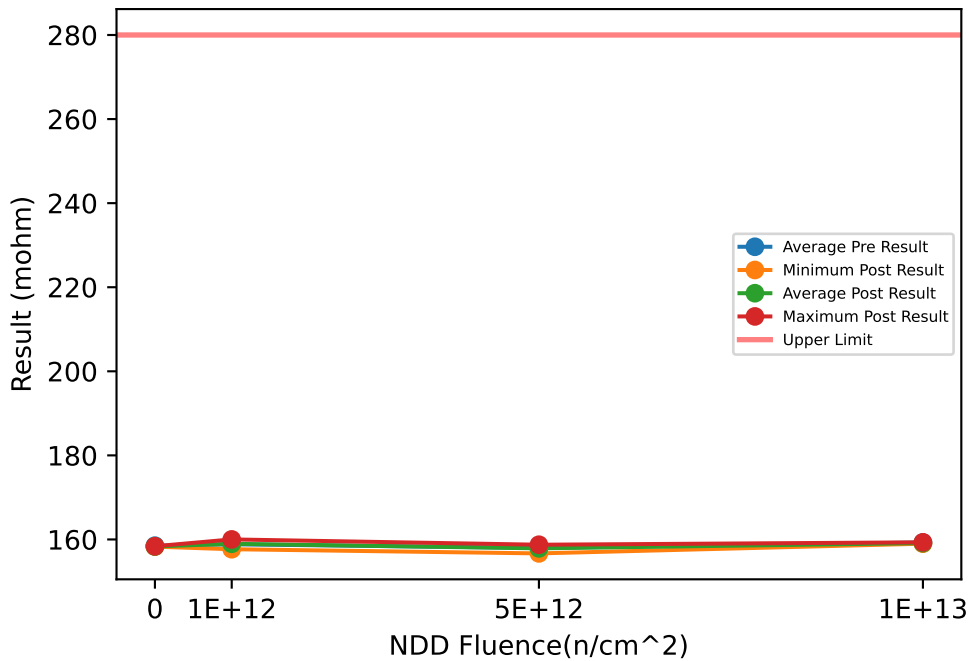


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	157.93	158.55	159.03	0.56088	158.29	158.35	158.38	0.047737	-0.6682	-0.1999	0.4495	0.58044
1e+12	157.59	158.88	159.82	1.1556	157.7	158.98	160.03	1.185	-0.0151	0.10137	0.2125	0.11389
5e+12	156.95	158.03	159.48	1.3054	156.71	157.91	158.75	1.061	-0.7275	-0.12037	0.6025	0.67251
1e+13	159.17	159.3	159.44	0.13757	159.02	159.17	159.35	0.16594	-0.4171	-0.12517	0.0606	0.25594

# Device Test: 12.8 UJ4ZR4(RDSON\_32V\_OUT2\_UJE410\_UJ4ZR4)

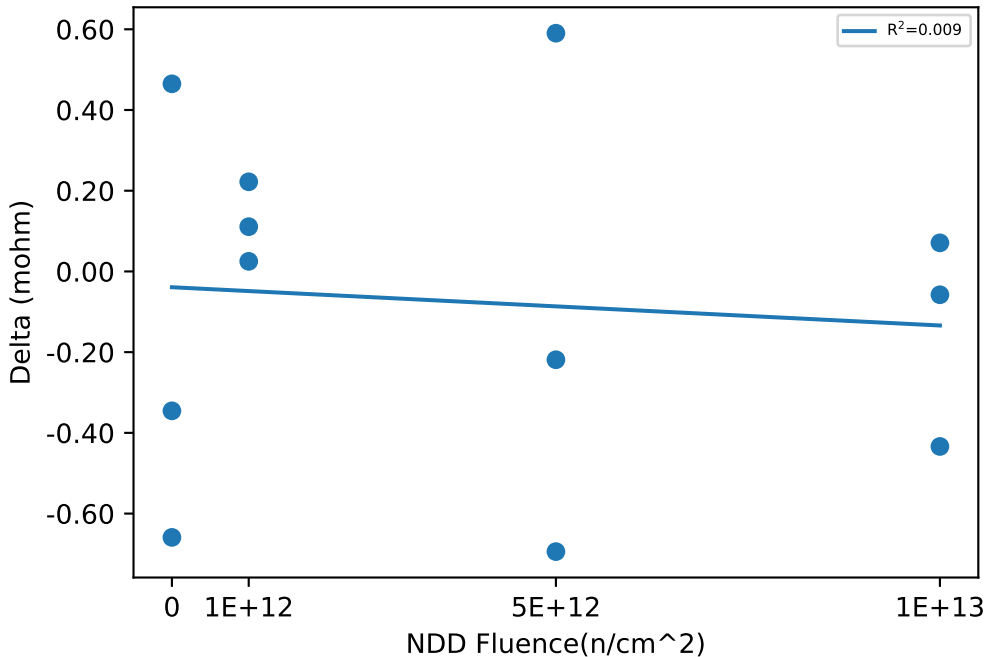
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	157.57	157.68	0.1109
2	1e+12	NDD, unbiased	159.79	160.01	0.2221
3	1e+12	NDD, unbiased	159.19	159.22	0.025
4	5e+12	NDD, unbiased	156.9	156.68	-0.2188
5	5e+12	NDD, unbiased	157.63	158.22	0.5903
6	5e+12	NDD, unbiased	159.44	158.75	-0.6942
7	1e+13	NDD, unbiased	159.43	158.99	-0.4337
8	1e+13	NDD, unbiased	159.25	159.32	0.0708
9	1e+13	NDD, unbiased	159.16	159.1	-0.0578
10	0	correlation	159.01	158.35	-0.659
11	0	correlation	157.92	158.38	0.4649
12	0	correlation	158.63	158.29	-0.3454

## NDD vs Post - Pre Exposure Delta

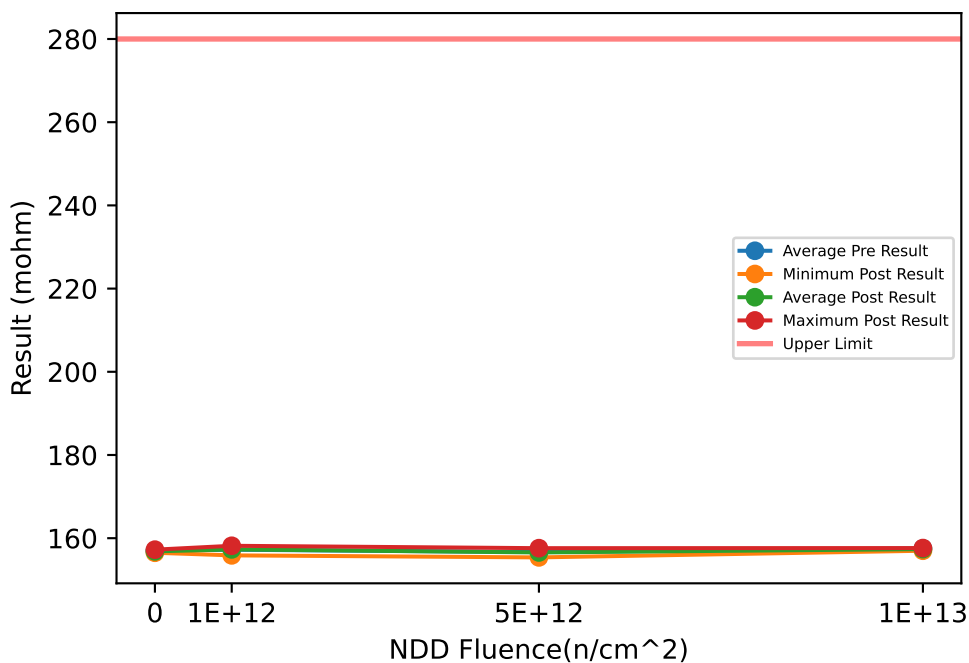


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	157.92	158.52	159.01	0.55348	158.29	158.34	158.38	0.048864	-0.659	-0.17983	0.4649	0.57995
1e+12	157.57	158.85	159.79	1.1502	157.68	158.97	160.01	1.1863	0.025	0.11933	0.2221	0.09882
5e+12	156.9	157.99	159.44	1.3077	156.68	157.88	158.75	1.0713	-0.6942	-0.10757	0.5903	0.64943
1e+13	159.16	159.28	159.43	0.13618	158.99	159.14	159.32	0.16647	-0.4337	-0.14023	0.0708	0.26216

# Device Test: 12.9 UJ4ZR4(RDSON\_5V\_OUT3\_UJE410\_UJ4ZR4)

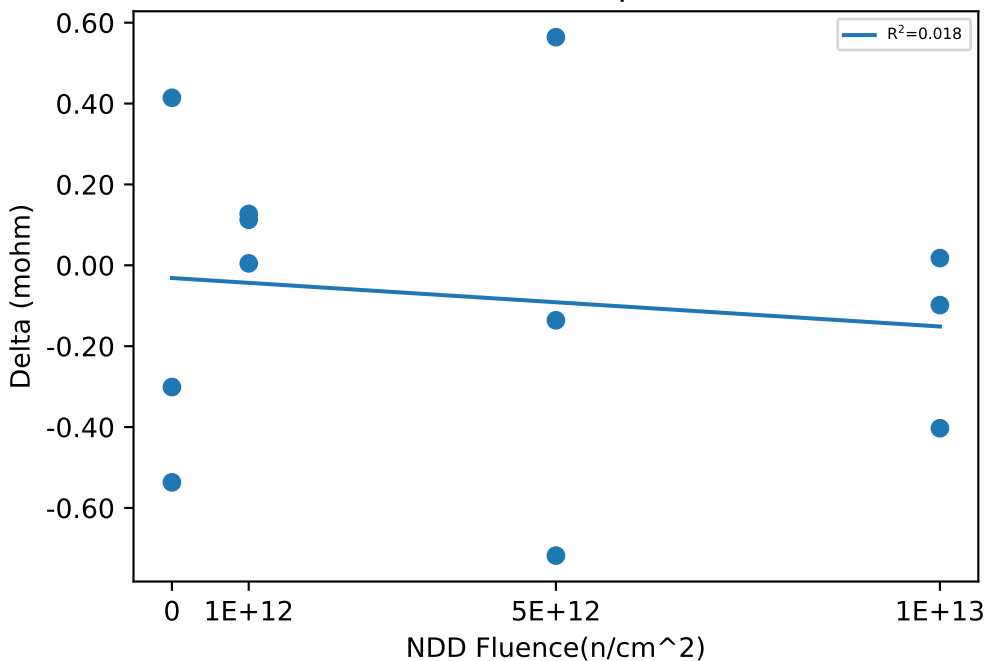
## NDD vs Result Stats



## Test Results (Upper Limit = 280.0 (mohm))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	155.76	155.87	0.1126
2	1e+12	NDD, unbiased	157.75	157.88	0.1271
3	1e+12	NDD, unbiased	158.17	158.17	0.0047
4	5e+12	NDD, unbiased	155.52	155.38	-0.136
5	5e+12	NDD, unbiased	156.16	156.72	0.5641
6	5e+12	NDD, unbiased	158.32	157.6	-0.7179
7	1e+13	NDD, unbiased	157.92	157.52	-0.4029
8	1e+13	NDD, unbiased	156.96	156.98	0.0178
9	1e+13	NDD, unbiased	157.72	157.62	-0.0985
10	0	correlation	157.03	156.5	-0.5367
11	0	correlation	156.83	157.24	0.4142
12	0	correlation	157.06	156.76	-0.3011

## NDD vs Post - Pre Exposure Delta

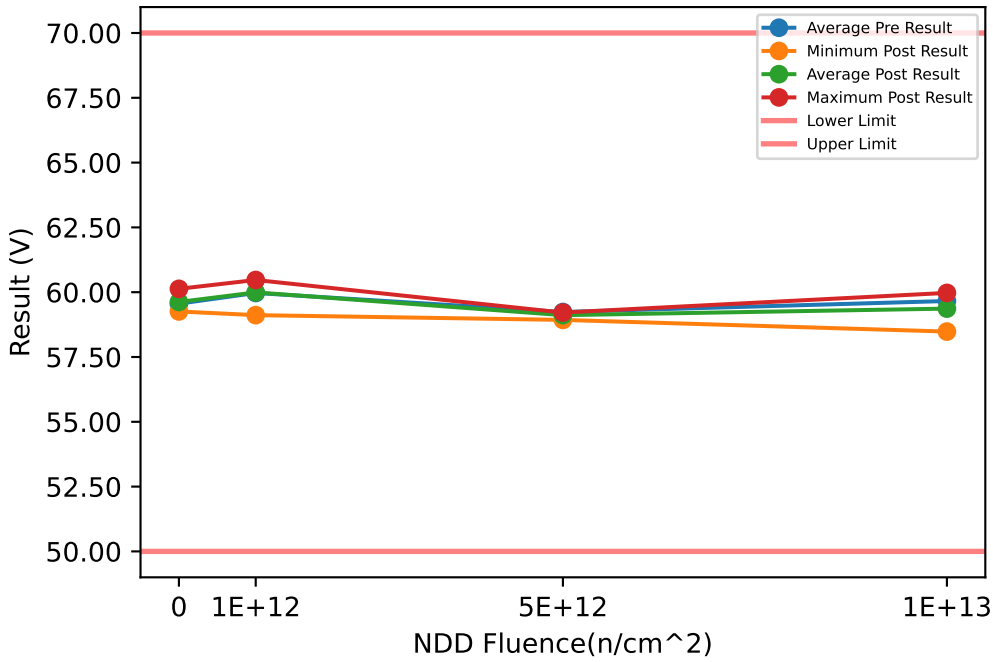


## Test Statistics (mohm)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	156.83	156.97	157.06	0.12612	156.5	156.83	157.24	0.37816	-0.5367	-0.1412	0.4142	0.49521
1e+12	155.76	157.23	158.17	1.2879	155.87	157.31	158.17	1.2527	0.0047	0.081467	0.1271	0.066876
5e+12	155.52	156.67	158.32	1.467	155.38	156.57	157.6	1.1174	-0.7179	-0.0966	0.5641	0.64191
1e+13	156.96	157.54	157.92	0.50461	156.98	157.37	157.62	0.34415	-0.4029	-0.1612	0.0178	0.21725

# Device Test: 14.2 UJUUDV(VDS\_CLAMP\_CH1\_UJUUDV)

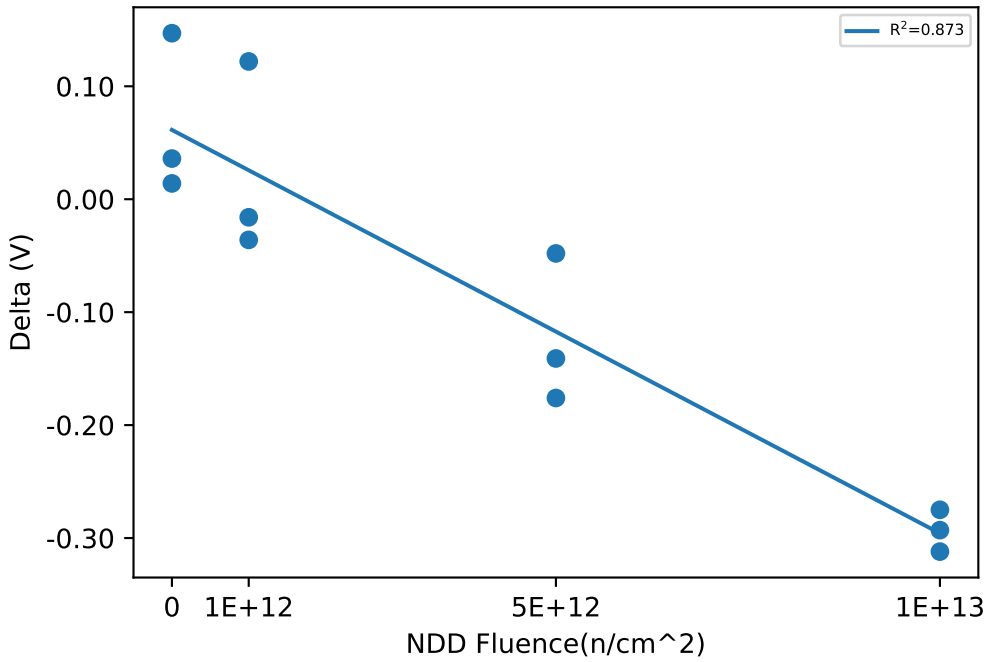
## NDD vs Result Stats



## Test Results (Lower Limit = 50.0, Upper Limit = 70.0 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	59.151	59.115	-0.036
2	1e+12	NDD, unbiased	60.408	60.392	-0.016
3	1e+12	NDD, unbiased	60.349	60.471	0.122
4	5e+12	NDD, unbiased	59.107	58.931	-0.176
5	5e+12	NDD, unbiased	59.339	59.198	-0.141
6	5e+12	NDD, unbiased	59.262	59.214	-0.048
7	1e+13	NDD, unbiased	60.285	59.973	-0.312
8	1e+13	NDD, unbiased	58.774	58.481	-0.293
9	1e+13	NDD, unbiased	59.921	59.646	-0.275
10	0	correlation	59.468	59.482	0.014
11	0	correlation	59.221	59.257	0.036
12	0	correlation	59.983	60.13	0.147

## NDD vs Post - Pre Exposure Delta

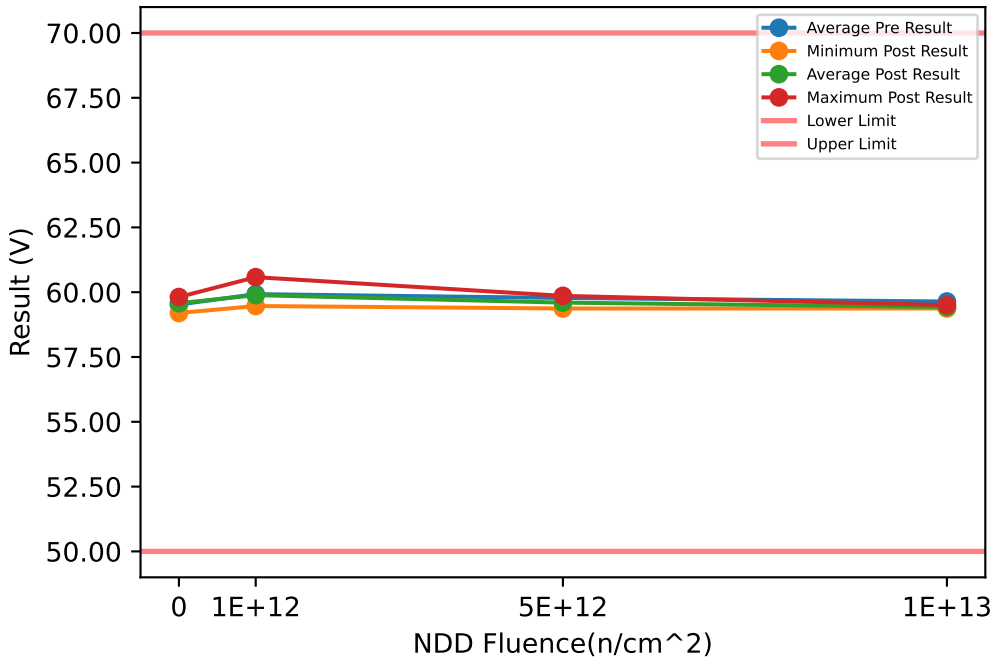


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	59.221	59.557	59.983	0.38878	59.257	59.623	60.13	0.45326	0.014	0.065667	0.147	0.07129
1e+12	59.151	59.66	60.408	0.70931	59.115	59.993	60.471	0.76111	-0.036	0.023333	0.122	0.086031
5e+12	59.107	59.236	59.339	0.11817	58.931	59.114	59.214	0.15897	-0.176	-0.12167	-0.048	0.066154
1e+13	58.774	59.66	60.285	0.78859	58.481	59.367	59.973	0.78424	-0.312	-0.29333	-0.275	0.018502

# Device Test: 14.4 UJUUDV(VDS\_CLAMP\_CH2\_UJUUDV)

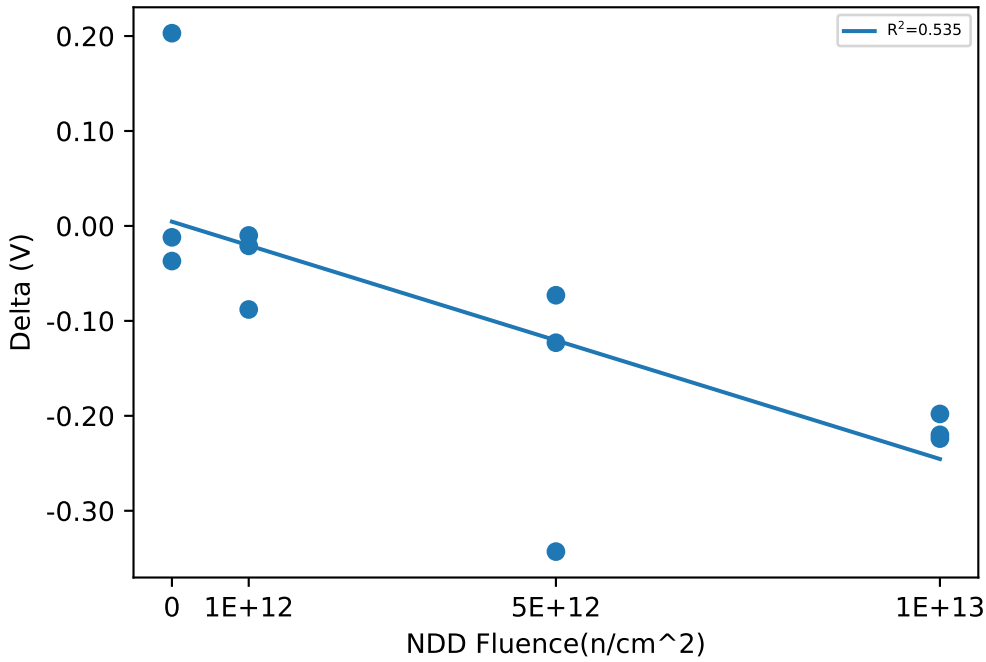
## NDD vs Result Stats



## Test Results (Lower Limit = 50.0, Upper Limit = 70.0 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	59.477	59.467	-0.01
2	1e+12	NDD, unbiased	60.668	60.58	-0.088
3	1e+12	NDD, unbiased	59.631	59.61	-0.021
4	5e+12	NDD, unbiased	59.494	59.371	-0.123
5	5e+12	NDD, unbiased	59.932	59.859	-0.073
6	5e+12	NDD, unbiased	59.906	59.563	-0.343
7	1e+13	NDD, unbiased	59.72	59.5	-0.22
8	1e+13	NDD, unbiased	59.569	59.371	-0.198
9	1e+13	NDD, unbiased	59.632	59.408	-0.224
10	0	correlation	59.234	59.197	-0.037
11	0	correlation	59.609	59.812	0.203
12	0	correlation	59.73	59.718	-0.012

## NDD vs Post - Pre Exposure Delta

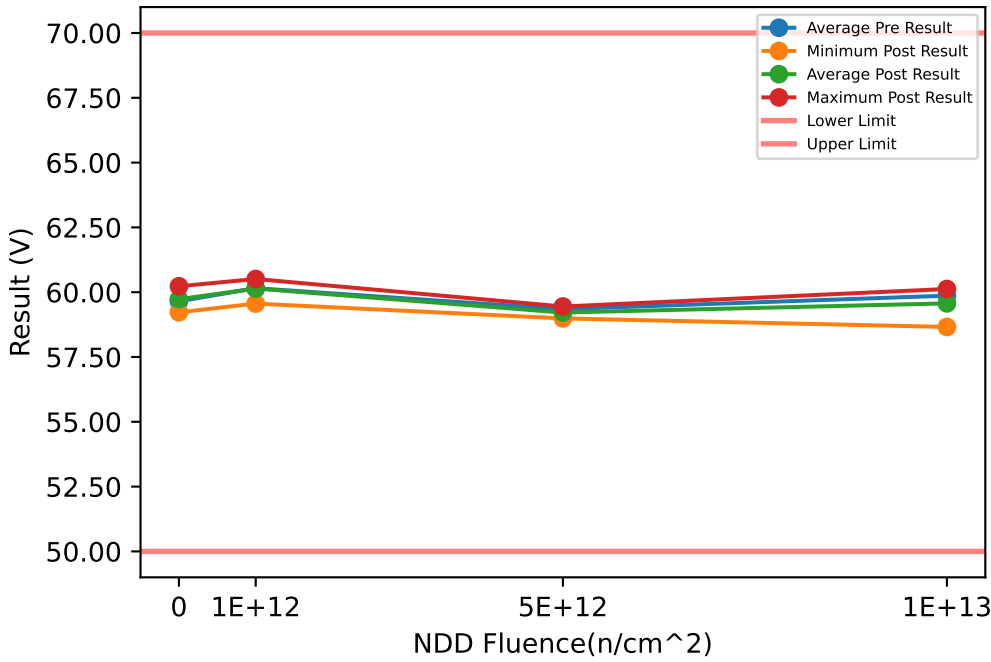


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	59.234	59.524	59.73	0.25861	59.197	59.576	59.812	0.33129	-0.037	0.051333	0.203	0.13194
1e+12	59.477	59.925	60.668	0.64776	59.467	59.886	60.58	0.60555	-0.088	-0.039667	-0.01	0.042218
5e+12	59.494	59.777	59.932	0.24572	59.371	59.598	59.859	0.24584	-0.343	-0.17967	-0.073	0.14364
1e+13	59.569	59.64	59.72	0.075844	59.371	59.426	59.5	0.066425	-0.224	-0.214	-0.198	0.014

# Device Test: 14.6 UJUUDV(VDS\_CLAMP\_CH3\_UJUUDV)

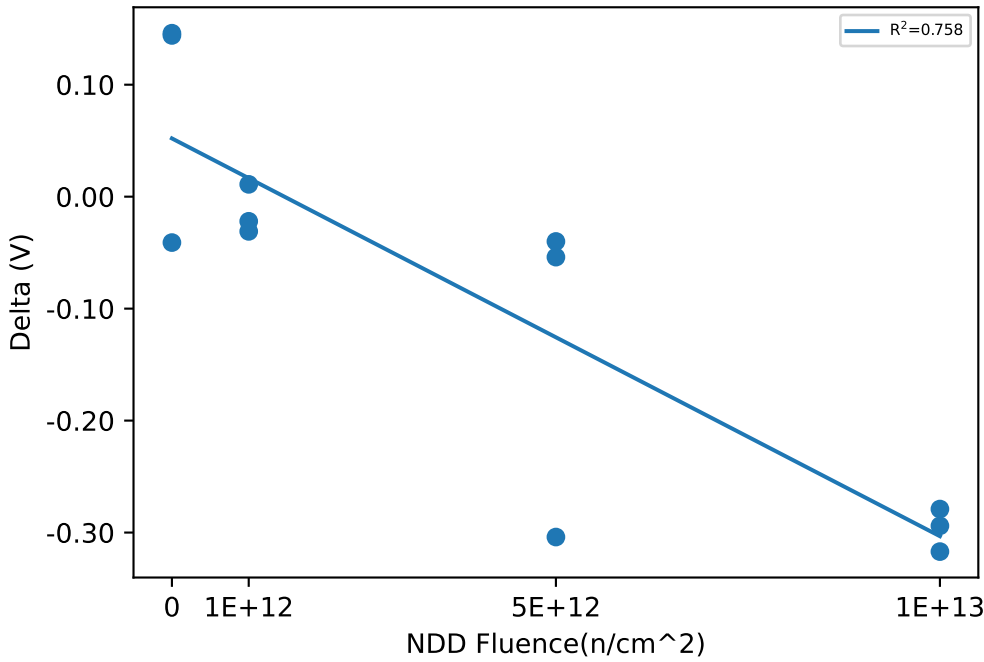
## NDD vs Result Stats



## Test Results (Lower Limit = 50.0, Upper Limit = 70.0 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	59.549	59.56	0.011
2	1e+12	NDD, unbiased	60.377	60.355	-0.022
3	1e+12	NDD, unbiased	60.54	60.509	-0.031
4	5e+12	NDD, unbiased	59.043	58.989	-0.054
5	5e+12	NDD, unbiased	59.752	59.448	-0.304
6	5e+12	NDD, unbiased	59.247	59.207	-0.04
7	1e+13	NDD, unbiased	60.441	60.124	-0.317
8	1e+13	NDD, unbiased	58.938	58.659	-0.279
9	1e+13	NDD, unbiased	60.219	59.925	-0.294
10	0	correlation	59.596	59.74	0.144
11	0	correlation	59.265	59.224	-0.041
12	0	correlation	60.083	60.229	0.146

## NDD vs Post - Pre Exposure Delta

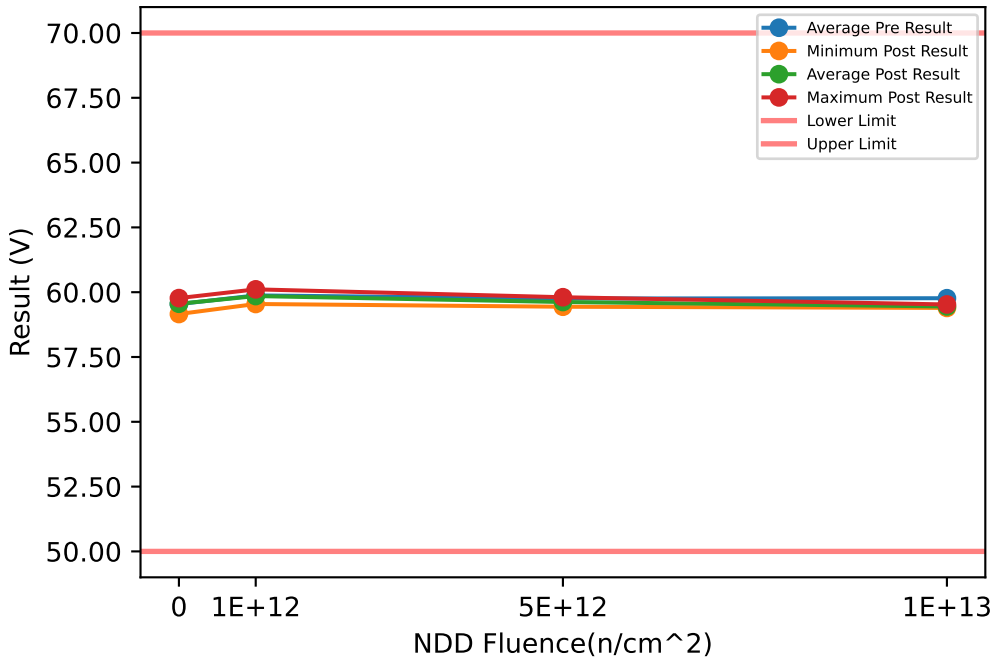


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	59.265	59.648	60.083	0.41147	59.224	59.731	60.229	0.50256	-0.041	0.083	0.146	0.10739
1e+12	59.549	60.155	60.54	0.53139	59.56	60.141	60.509	0.5093	-0.031	-0.014	0.011	0.022113
5e+12	59.043	59.347	59.752	0.36499	58.989	59.215	59.448	0.2296	-0.304	-0.13267	-0.04	0.14854
1e+13	58.938	59.866	60.441	0.8113	58.659	59.569	60.124	0.79463	-0.317	-0.29667	-0.279	0.01914

# Device Test: 14.8 UJUUDV(VDS\_CLAMP\_CH4\_UJUUDV)

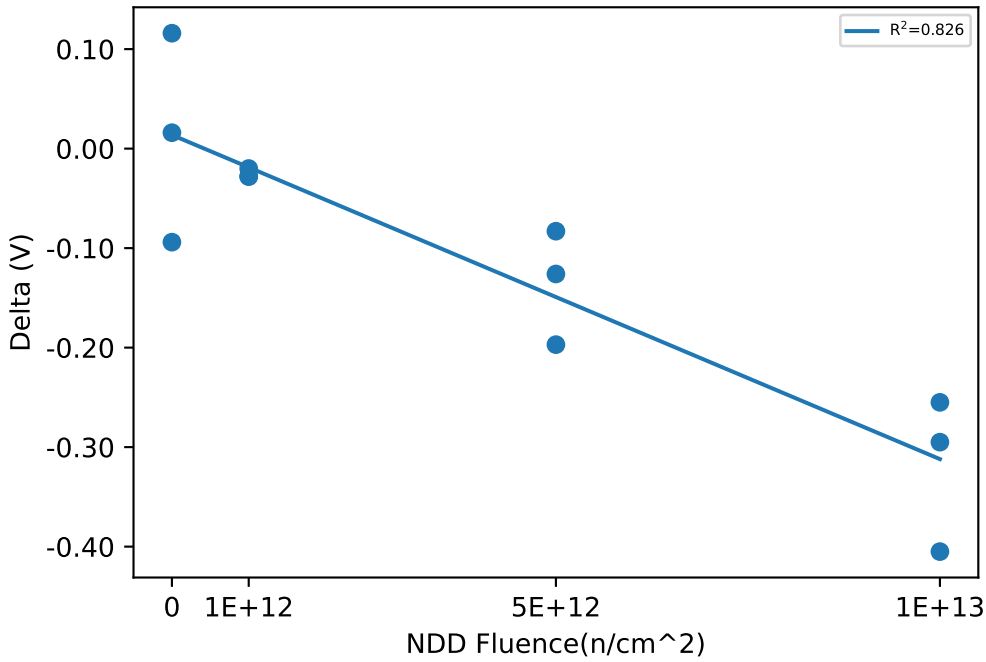
## NDD vs Result Stats



## Test Results (Lower Limit = 50.0, Upper Limit = 70.0 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	59.573	59.545	-0.028
2	1e+12	NDD, unbiased	60.138	60.11	-0.028
3	1e+12	NDD, unbiased	59.917	59.897	-0.02
4	5e+12	NDD, unbiased	59.636	59.439	-0.197
5	5e+12	NDD, unbiased	59.744	59.618	-0.126
6	5e+12	NDD, unbiased	59.889	59.806	-0.083
7	1e+13	NDD, unbiased	59.932	59.527	-0.405
8	1e+13	NDD, unbiased	59.723	59.428	-0.295
9	1e+13	NDD, unbiased	59.648	59.393	-0.255
10	0	correlation	59.142	59.158	0.016
11	0	correlation	59.866	59.772	-0.094
12	0	correlation	59.617	59.733	0.116

## NDD vs Post - Pre Exposure Delta



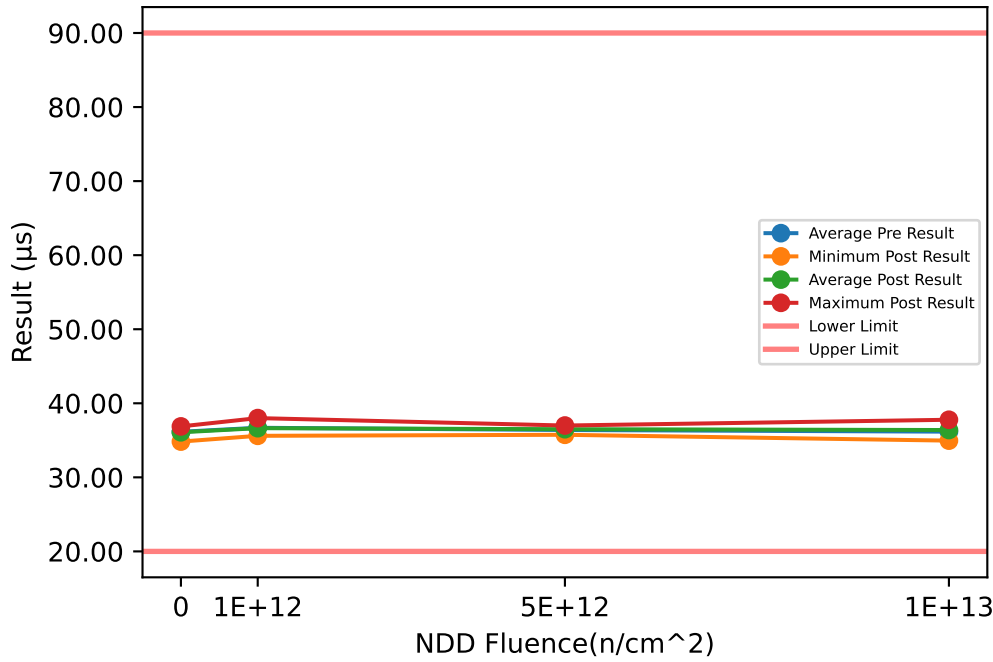
## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	59.142	59.542	59.866	0.36783	59.158	59.554	59.772	0.34379	-0.094	0.012667	0.116	0.10504
1e+12	59.573	59.876	60.138	0.28472	59.545	59.851	60.11	0.28534	-0.028	-0.025333	-0.02	0.0046188
5e+12	59.636	59.756	59.889	0.12695	59.439	59.621	59.806	0.18352	-0.197	-0.13533	-0.083	0.05757
1e+13	59.648	59.768	59.932	0.14717	59.393	59.449	59.527	0.069501	-0.405	-0.31833	-0.255	0.077675



# Device Test: 15.1 UJ33GQ(TON\_DELAY\_CH1\_UJ33GQ)

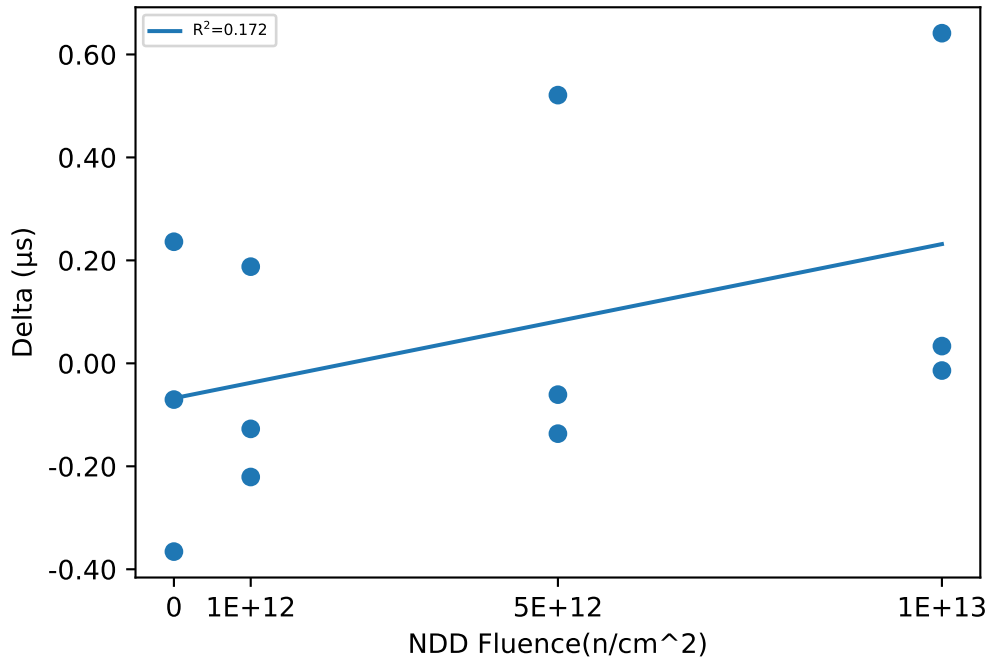
## NDD vs Result Stats



## Test Results (Lower Limit = 20.0, Upper Limit = 90.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	35.734	35.606	-0.1273
2	1e+12	NDD, unbiased	38.22	37.999	-0.2208
3	1e+12	NDD, unbiased	36.125	36.313	0.1878
4	5e+12	NDD, unbiased	35.883	35.746	-0.1366
5	5e+12	NDD, unbiased	36.476	36.997	0.521
6	5e+12	NDD, unbiased	36.819	36.758	-0.0608
7	1e+13	NDD, unbiased	35.792	36.433	0.6413
8	1e+13	NDD, unbiased	34.924	34.958	0.0335
9	1e+13	NDD, unbiased	37.788	37.774	-0.014
10	0	correlation	36.617	36.547	-0.0704
11	0	correlation	36.641	36.877	0.2362
12	0	correlation	35.193	34.827	-0.3657

## NDD vs Post - Pre Exposure Delta

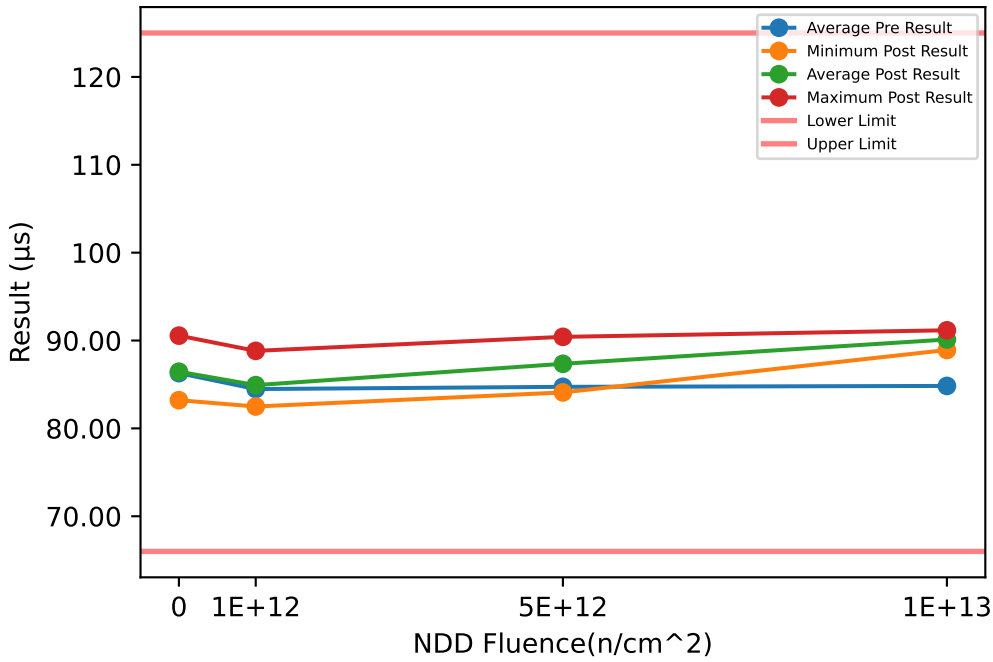


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	35.193	36.15	36.641	0.82927	34.827	36.084	36.877	1.1006	-0.3657	-0.066633	0.2362	0.30097
1e+12	35.734	36.693	38.22	1.337	35.606	36.64	37.999	1.2294	-0.2208	-0.053433	0.1878	0.21408
5e+12	35.883	36.393	36.819	0.47377	35.746	36.5	36.997	0.6641	-0.1366	0.10787	0.521	0.35979
1e+13	34.924	36.168	37.788	1.4687	34.958	36.388	37.774	1.4089	-0.014	0.22027	0.6413	0.3654

# Device Test: 15.10 UJP09Y(TRISE\_CH2\_UJP09Y)

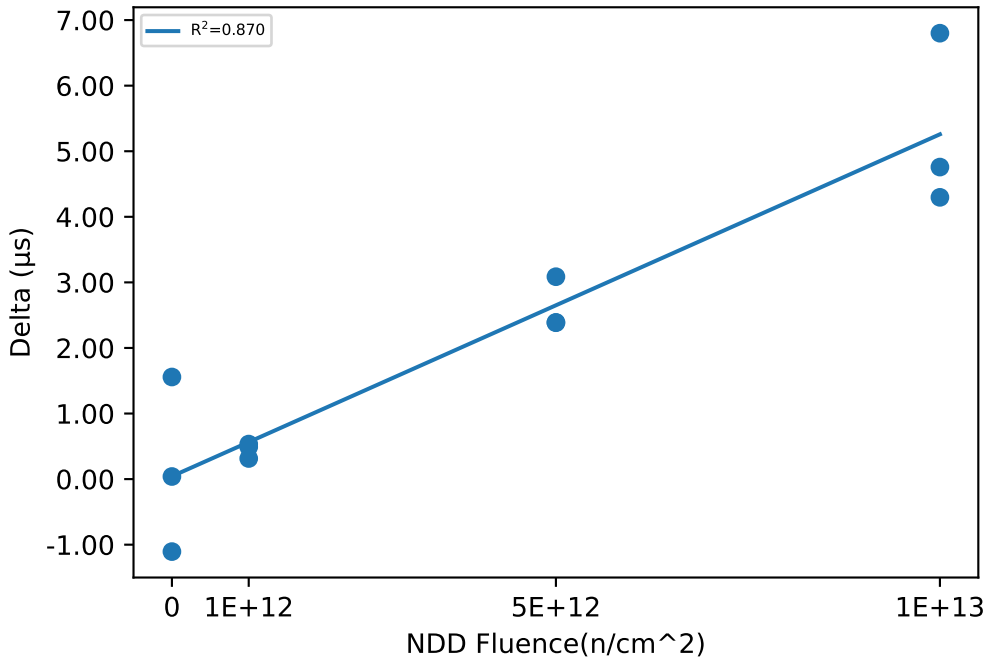
## NDD vs Result Stats



## Test Results (Lower Limit = 66.0, Upper Limit = 125.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	82.924	83.459	0.5342
2	1e+12	NDD, unbiased	81.999	82.49	0.4908
3	1e+12	NDD, unbiased	88.509	88.823	0.3143
4	5e+12	NDD, unbiased	84.454	87.541	3.0865
5	5e+12	NDD, unbiased	88.028	90.418	2.3897
6	5e+12	NDD, unbiased	81.708	84.093	2.385
7	1e+13	NDD, unbiased	83.461	90.261	6.8
8	1e+13	NDD, unbiased	84.625	88.922	4.297
9	1e+13	NDD, unbiased	86.407	91.165	4.7585
10	0	correlation	89	90.557	1.5571
11	0	correlation	85.551	85.591	0.0397
12	0	correlation	84.315	83.209	-1.1055

## NDD vs Post - Pre Exposure Delta

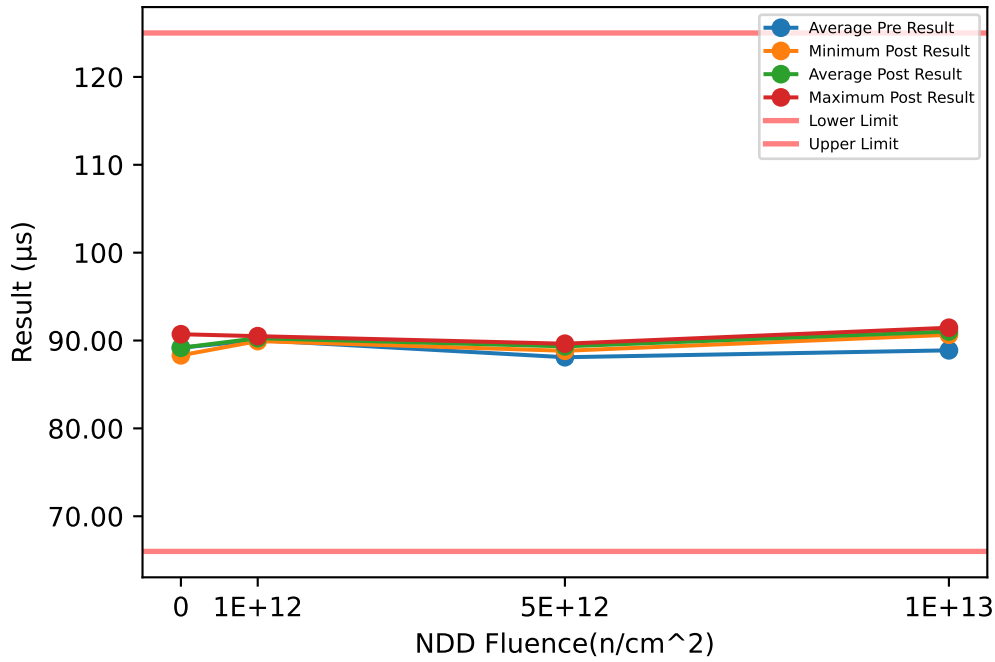


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	84.315	86.288	89	2.428	83.209	86.452	90.557	3.7488	-1.1055	0.16377	1.5571	1.3356
1e+12	81.999	84.477	88.509	3.5218	82.49	84.924	88.823	3.4114	0.3143	0.44643	0.5342	0.11647
5e+12	81.708	84.73	88.028	3.1693	84.093	87.35	90.418	3.1669	2.385	2.6204	3.0865	0.40366
1e+13	83.461	84.831	86.407	1.4835	88.922	90.116	91.165	1.1284	4.297	5.2852	6.8	1.332

# Device Test: 15.11 UJ6AIM(TFALL\_CH2\_UJ6AIM)

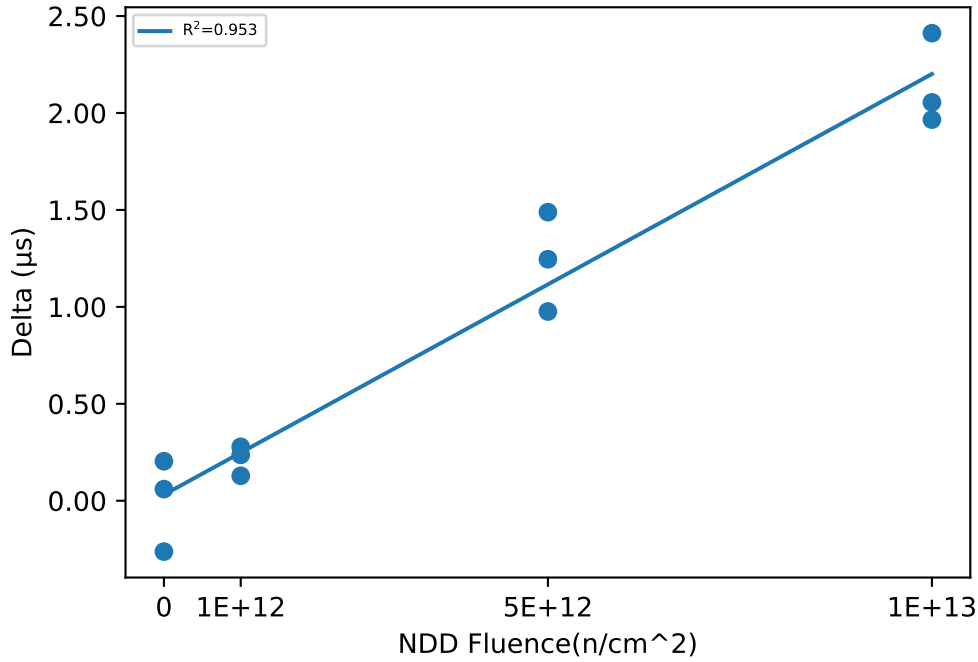
## NDD vs Result Stats



## Test Results (Lower Limit = 66.0, Upper Limit = 125.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	90.367	90.496	0.1286
2	1e+12	NDD, unbiased	89.699	89.935	0.2367
3	1e+12	NDD, unbiased	90.084	90.362	0.2781
4	5e+12	NDD, unbiased	87.342	88.831	1.4885
5	5e+12	NDD, unbiased	88.392	89.637	1.2456
6	5e+12	NDD, unbiased	88.559	89.536	0.9761
7	1e+13	NDD, unbiased	88.597	90.652	2.0547
8	1e+13	NDD, unbiased	88.563	90.975	2.4116
9	1e+13	NDD, unbiased	89.49	91.456	1.9659
10	0	correlation	88.758	88.496	-0.2623
11	0	correlation	90.512	90.716	0.2038
12	0	correlation	88.255	88.315	0.0599

## NDD vs Post - Pre Exposure Delta

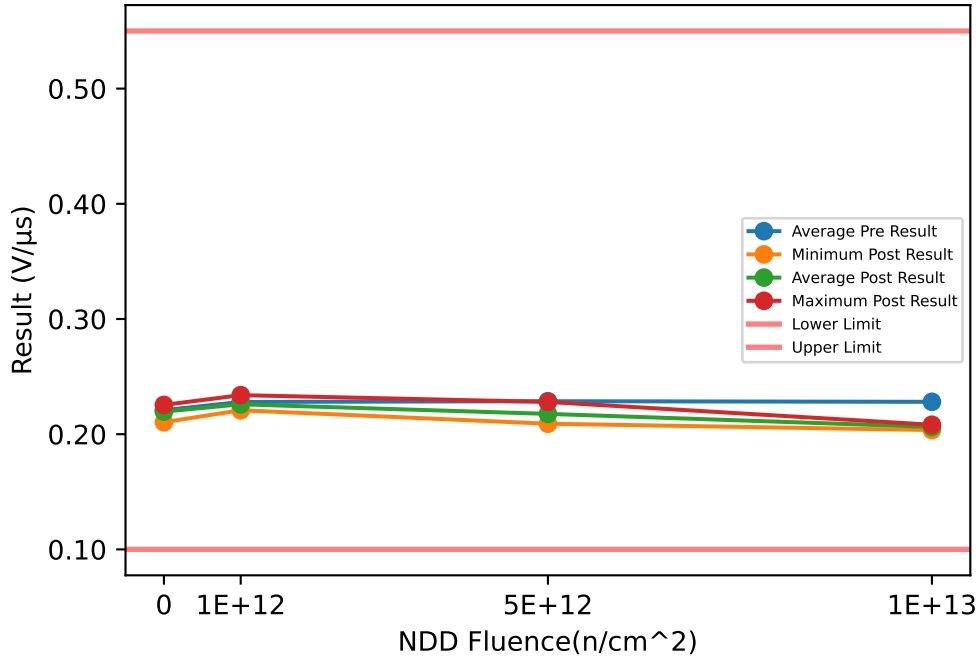


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	88.255	89.175	90.512	1.1849	88.315	89.176	90.716	1.337	-0.2623	0.00046667	0.2038	0.23867
1e+12	89.699	90.05	90.367	0.33556	89.935	90.265	90.496	0.29274	0.1286	0.21447	0.2781	0.07719
5e+12	87.342	88.098	88.559	0.65965	88.831	89.335	89.637	0.43919	0.9761	1.2367	1.4885	0.25632
1e+13	88.563	88.883	89.49	0.5254	90.652	91.027	91.456	0.40447	1.9659	2.1441	2.4116	0.23591

# Device Test: 15.12 UJPEEL(SLEWRATE\_ON\_CH2\_UJPEEL)

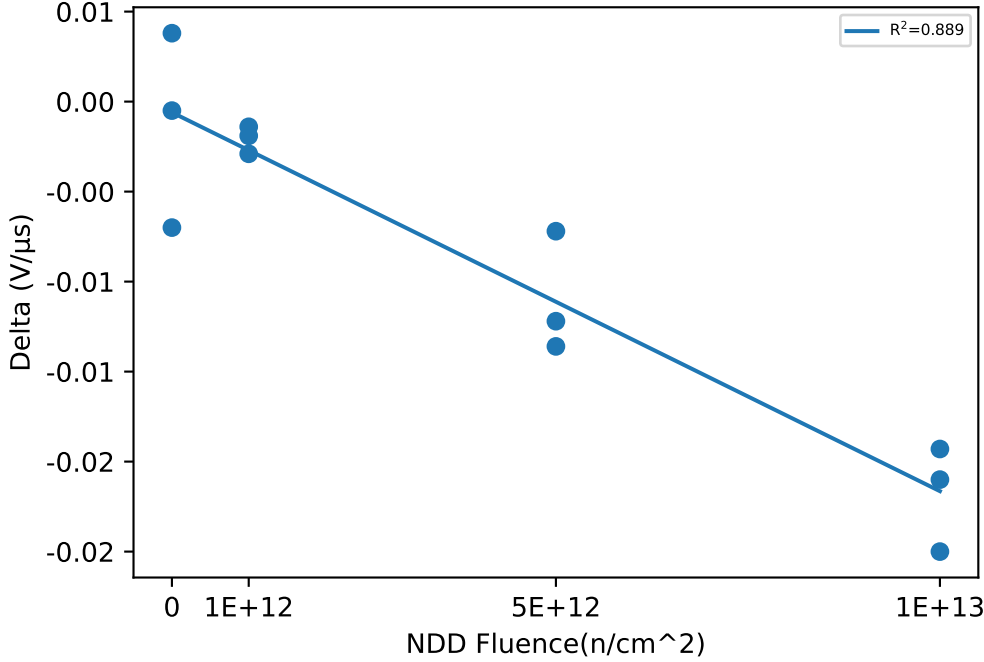
## NDD vs Result Stats



## Test Results (Lower Limit = 0.1, Upper Limit = 0.55 (V/μs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.225	0.2231	-0.0019
2	1e+12	NDD, unbiased	0.2368	0.2339	-0.0029
3	1e+12	NDD, unbiased	0.2222	0.2208	-0.0014
4	5e+12	NDD, unbiased	0.2294	0.2158	-0.0136
5	5e+12	NDD, unbiased	0.2163	0.2091	-0.0072
6	5e+12	NDD, unbiased	0.2402	0.228	-0.0122
7	1e+13	NDD, unbiased	0.2286	0.2036	-0.025
8	1e+13	NDD, unbiased	0.2265	0.2072	-0.0193
9	1e+13	NDD, unbiased	0.2292	0.2082	-0.021
10	0	correlation	0.2174	0.2104	-0.007
11	0	correlation	0.2259	0.2254	-0.0005
12	0	correlation	0.2192	0.223	0.0038

## NDD vs Post - Pre Exposure Delta

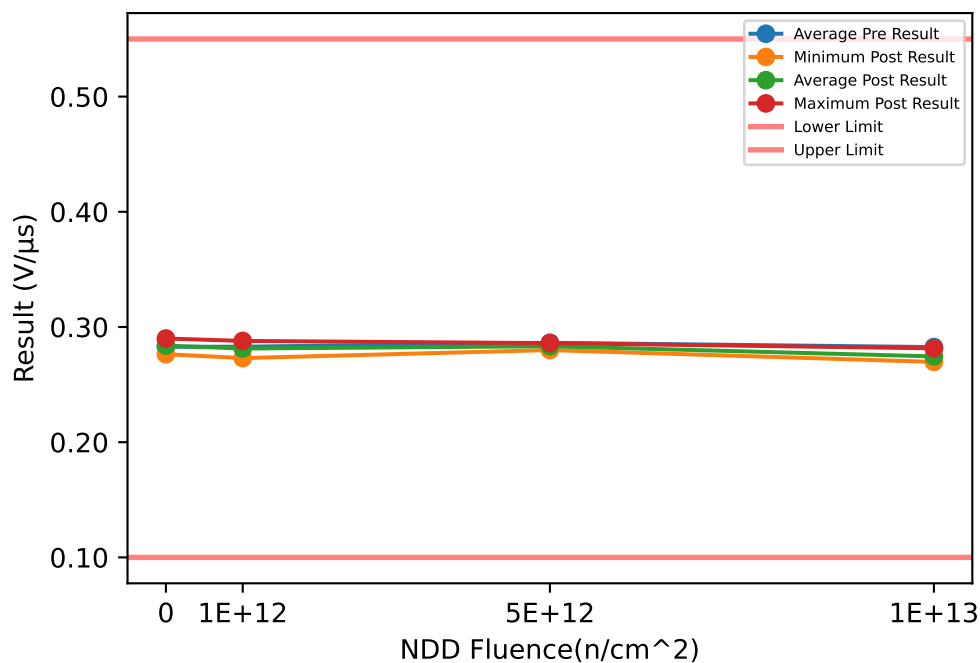


## Test Statistics (V/μs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2174	0.22083	0.2259	0.0044792	0.2104	0.2196	0.2254	0.0080573	-0.007	-0.0012333	0.0038	0.0054372
1e+12	0.2222	0.228	0.2368	0.0077485	0.2208	0.22593	0.2339	0.0069945	-0.0029	-0.0020667	-0.0014	0.00076376
5e+12	0.2163	0.22863	0.2402	0.011968	0.2091	0.21763	0.228	0.0095824	-0.0136	-0.011	-0.0072	0.0033645
1e+13	0.2265	0.2281	0.2292	0.0014177	0.2036	0.20633	0.2082	0.0024194	-0.025	-0.021767	-0.0193	0.0029263

# Device Test: 15.13 UJD80I(SLEWRATE\_OFF\_CH2\_UJD80I)

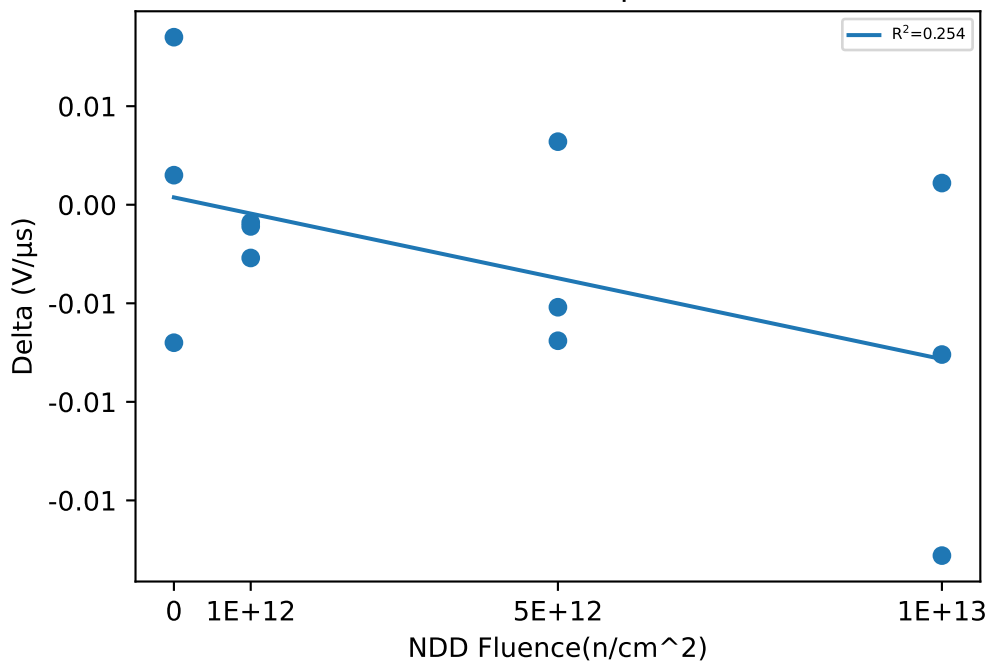
## NDD vs Result Stats



## Test Results (Lower Limit = 0.1, Upper Limit = 0.55 (V/μs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.2741	0.273	-0.0011
2	1e+12	NDD, unbiased	0.2888	0.2879	-0.0009
3	1e+12	NDD, unbiased	0.2857	0.283	-0.0027
4	5e+12	NDD, unbiased	0.2869	0.28	-0.0069
5	5e+12	NDD, unbiased	0.2807	0.2839	0.0032
6	5e+12	NDD, unbiased	0.2912	0.286	-0.0052
7	1e+13	NDD, unbiased	0.29	0.2722	-0.0178
8	1e+13	NDD, unbiased	0.2804	0.2815	0.0011
9	1e+13	NDD, unbiased	0.2773	0.2697	-0.0076
10	0	correlation	0.2834	0.2764	-0.007
11	0	correlation	0.2836	0.2851	0.0015
12	0	correlation	0.2815	0.29	0.0085

## NDD vs Post - Pre Exposure Delta

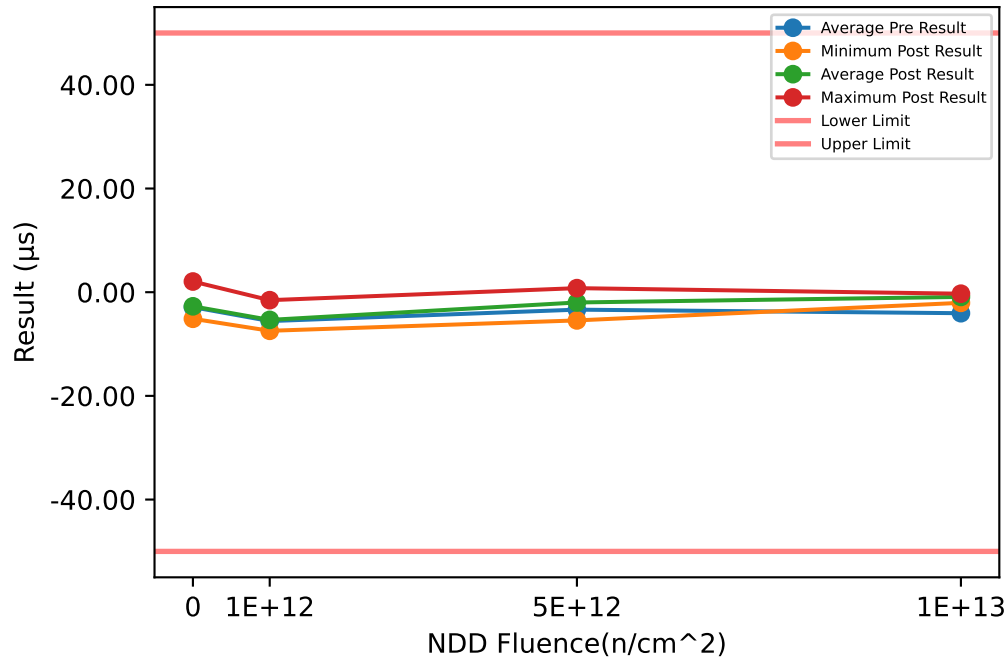


## Test Statistics (V/μs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2815	0.28283	0.2836	0.001159	0.2764	0.28383	0.29	0.0068879	-0.007	0.001	0.0085	0.0077621
1e+12	0.2741	0.28287	0.2888	0.0077488	0.273	0.2813	0.2879	0.0075941	-0.0027	-0.0015667	-0.0009	0.00098658
5e+12	0.2807	0.28627	0.2912	0.0052786	0.28	0.2833	0.286	0.0030447	-0.0069	-0.0029667	0.0032	0.0054077
1e+13	0.2773	0.28257	0.29	0.0066214	0.2697	0.27447	0.2815	0.006218	-0.0178	-0.0081	0.0011	0.0094599

# Device Test: 15.14 UJHGWM(TMATCH\_CH2\_UJHGWM)

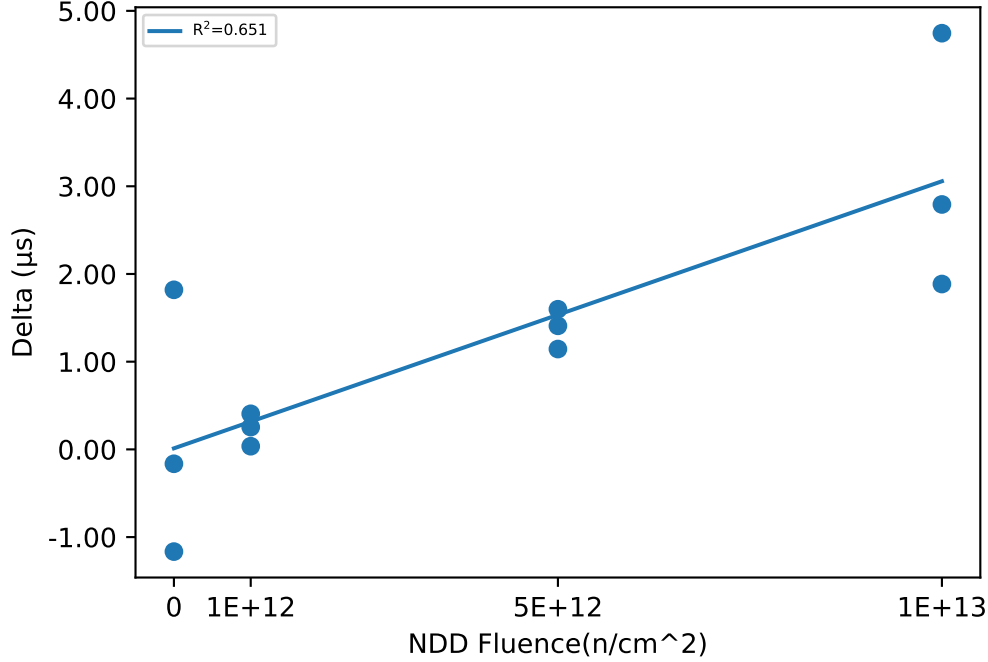
## NDD vs Result Stats



## Test Results (Lower Limit = -50.0, Upper Limit = 50.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-7.4429	-7.0373	0.4056
2	1e+12	NDD, unbiased	-7.6998	-7.4457	0.2541
3	1e+12	NDD, unbiased	-1.5756	-1.5394	0.0362
4	5e+12	NDD, unbiased	-2.8882	-1.2903	1.5979
5	5e+12	NDD, unbiased	-0.3632	0.7809	1.1441
6	5e+12	NDD, unbiased	-6.8517	-5.4428	1.4089
7	1e+13	NDD, unbiased	-5.136	-0.3907	4.7453
8	1e+13	NDD, unbiased	-3.9379	-2.0525	1.8854
9	1e+13	NDD, unbiased	-3.0831	-0.2905	2.7926
10	0	correlation	0.2413	2.0607	1.8194
11	0	correlation	-4.9616	-5.1257	-0.1641
12	0	correlation	-3.9405	-5.1059	-1.1654

## NDD vs Post - Pre Exposure Delta

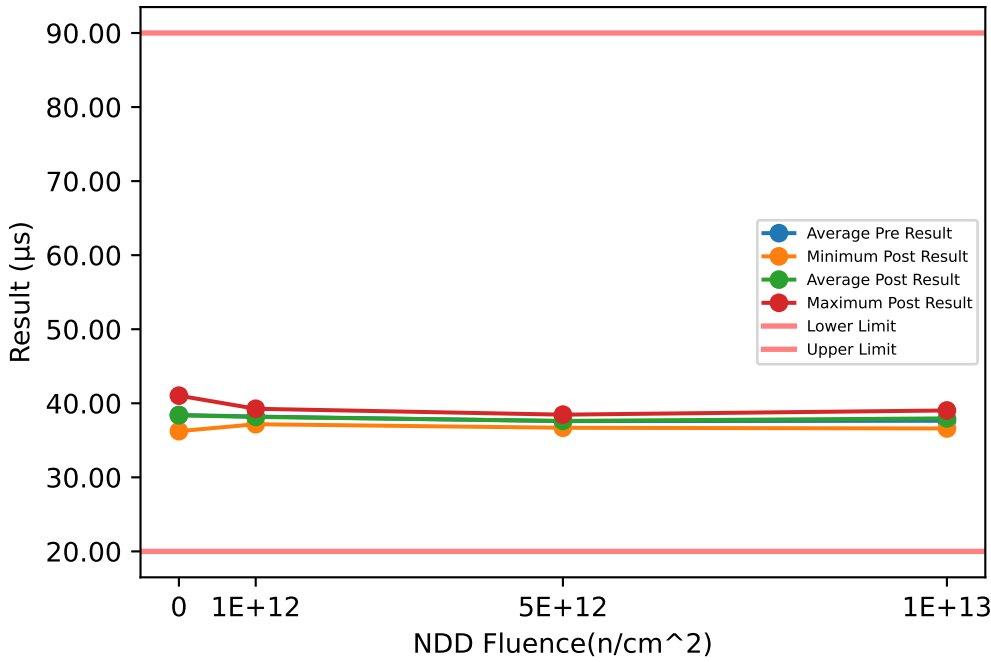


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-4.9616	-2.8869	0.2413	2.7568	-5.1257	-2.7236	2.0607	4.1434	-1.1654	0.1633	1.8194	1.5191
1e+12	-7.6998	-5.5728	-1.5756	3.464	-7.4457	-5.3408	-1.5394	3.2984	0.0362	0.23197	0.4056	0.18569
5e+12	-6.8517	-3.3677	-0.3632	3.2707	-5.4428	-1.9841	0.7809	3.1693	1.1441	1.3836	1.5979	0.22795
1e+13	-5.136	-4.0523	-3.0831	1.0312	-2.0525	-0.91123	-0.2905	0.98963	1.8854	3.1411	4.7453	1.4615

# Device Test: 15.15 UJ33GQ(TON\_DELAY\_CH3\_UJ33GQ)

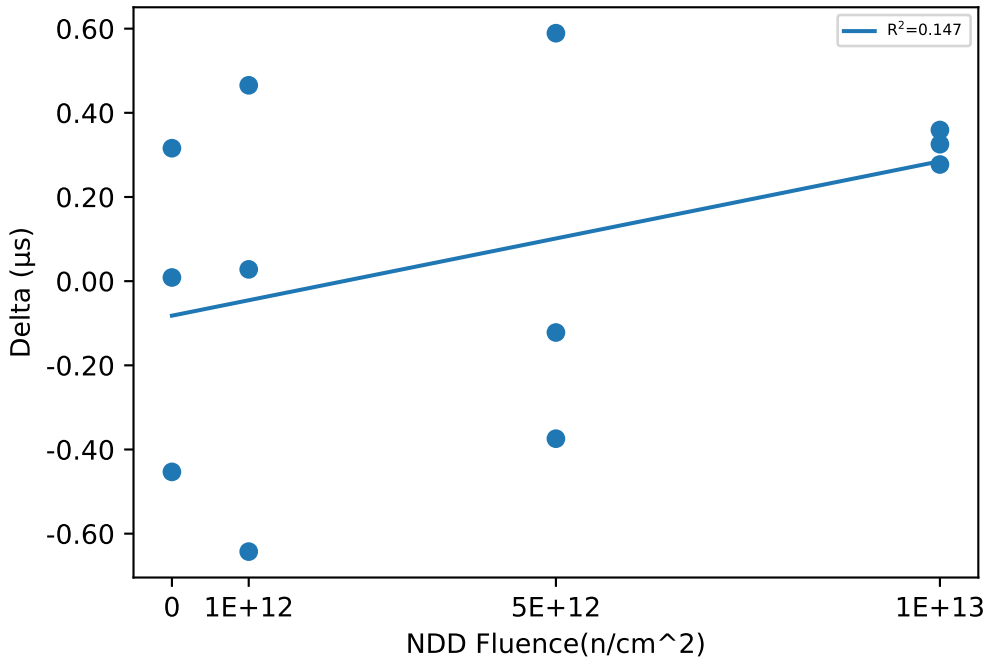
## NDD vs Result Stats



## Test Results (Lower Limit = 20.0, Upper Limit = 90.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	38.01	38.038	0.028
2	1e+12	NDD, unbiased	37.814	37.171	-0.6426
3	1e+12	NDD, unbiased	38.794	39.259	0.4654
4	5e+12	NDD, unbiased	37.823	37.701	-0.122
5	5e+12	NDD, unbiased	37.874	38.464	0.5892
6	5e+12	NDD, unbiased	37.068	36.693	-0.3743
7	1e+13	NDD, unbiased	37.978	38.255	0.2772
8	1e+13	NDD, unbiased	36.239	36.598	0.3592
9	1e+13	NDD, unbiased	38.705	39.031	0.3254
10	0	correlation	37.853	37.862	0.0087
11	0	correlation	35.919	36.235	0.3159
12	0	correlation	41.485	41.031	-0.4532

## NDD vs Post - Pre Exposure Delta

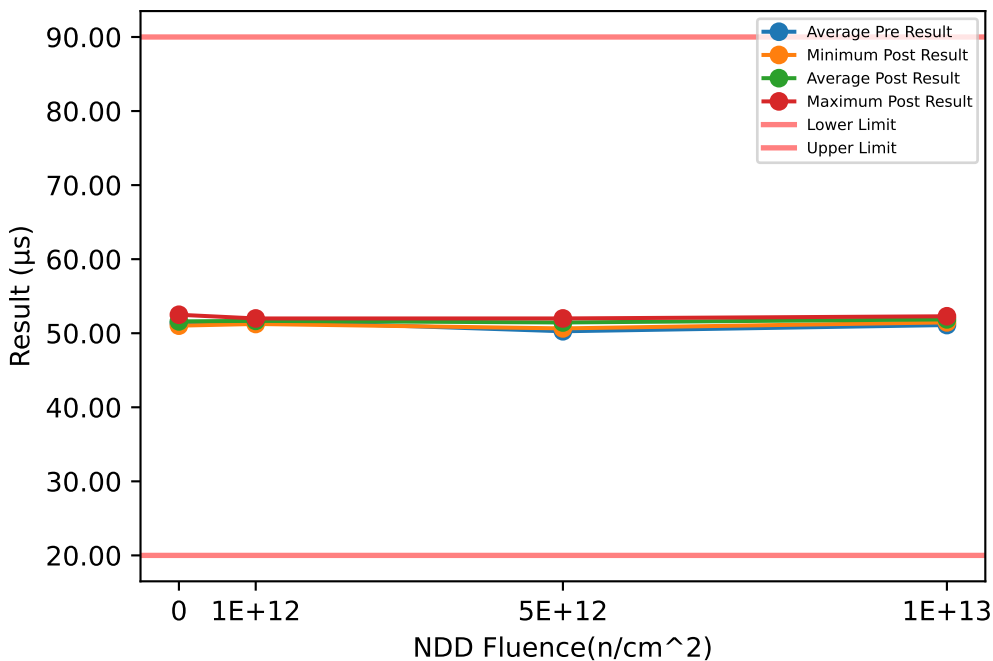


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	35.919	38.419	41.485	2.8256	36.235	38.376	41.031	2.4392	-0.4532	-0.042867	0.3159	0.38713
1e+12	37.814	38.206	38.794	0.51861	37.171	38.156	39.259	1.0491	-0.6426	-0.049733	0.4654	0.55808
5e+12	37.068	37.588	37.874	0.45175	36.693	37.619	38.464	0.88794	-0.3743	0.030967	0.5892	0.49963
1e+13	36.239	37.641	38.705	1.2672	36.598	37.961	39.031	1.2425	0.2772	0.3206	0.3592	0.04121

# Device Test: 15.16 UJZB3P(TOFF\_DELAY\_CH3\_UJZB3P)

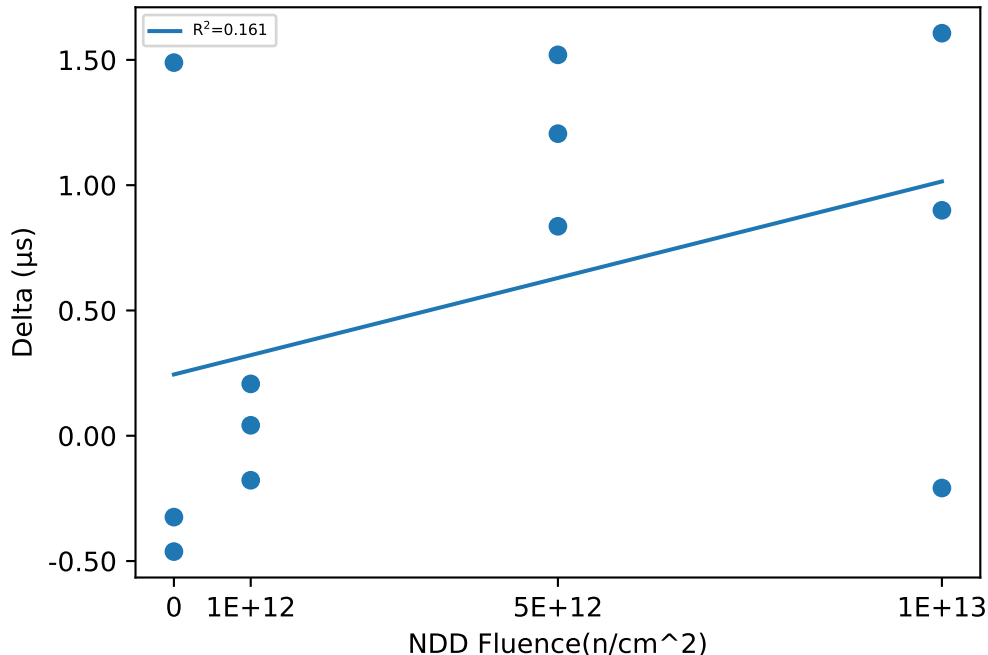
## NDD vs Result Stats



## Test Results (Lower Limit = 20.0, Upper Limit = 90.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	51.953	51.995	0.0417
2	1e+12	NDD, unbiased	51.563	51.77	0.207
3	1e+12	NDD, unbiased	51.426	51.248	-0.1776
4	5e+12	NDD, unbiased	49.816	50.652	0.8359
5	5e+12	NDD, unbiased	50.792	51.997	1.2055
6	5e+12	NDD, unbiased	50.182	51.702	1.5201
7	1e+13	NDD, unbiased	51.674	51.465	-0.2086
8	1e+13	NDD, unbiased	50.683	52.29	1.6065
9	1e+13	NDD, unbiased	50.955	51.855	0.8997
10	0	correlation	51.485	51.023	-0.4623
11	0	correlation	52.819	52.495	-0.3247
12	0	correlation	49.794	51.283	1.4891

## NDD vs Post - Pre Exposure Delta



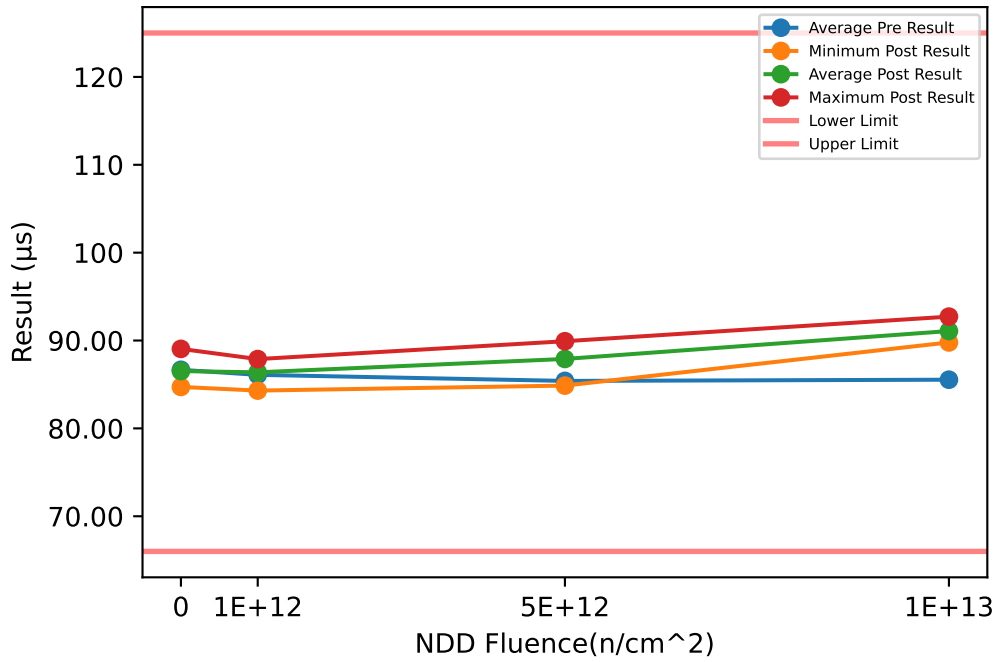
## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	49.794	51.366	52.819	1.5164	51.023	51.6	52.495	0.78563	-0.4623	0.23403	1.4891	1.0891
1e+12	51.426	51.647	51.953	0.27358	51.248	51.671	51.995	0.3831	-0.1776	0.0237	0.207	0.19293
5e+12	49.816	50.263	50.792	0.49269	50.652	51.45	51.997	0.70675	0.8359	1.1872	1.5201	0.34247
1e+13	50.683	51.104	51.674	0.51173	51.465	51.87	52.29	0.4125	-0.2086	0.76587	1.6065	0.91492



# Device Test: 15.17 UJP09Y(TRISE\_CH3\_UJP09Y)

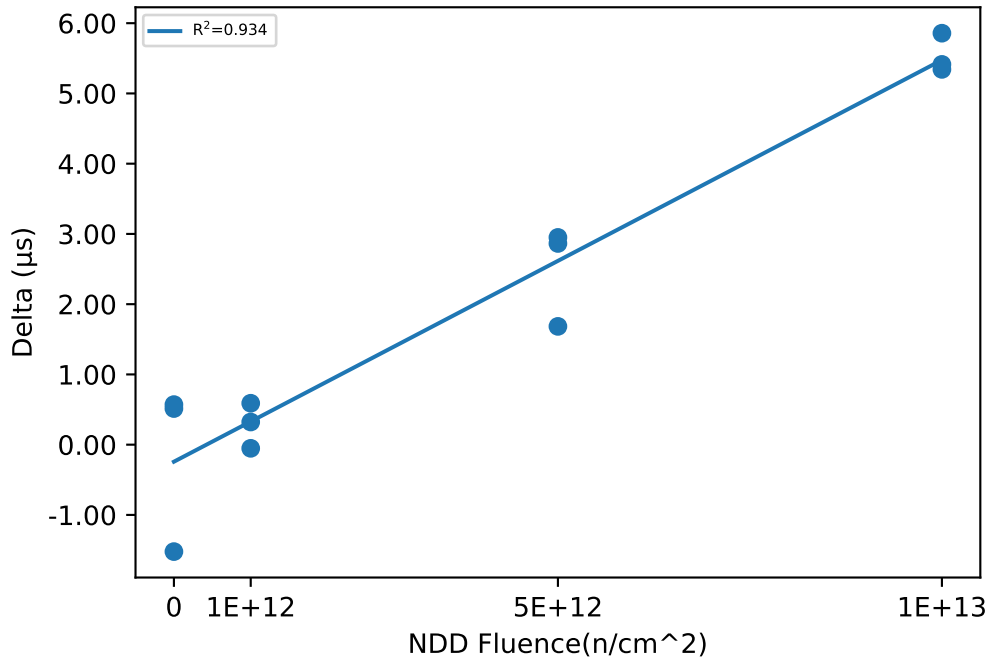
## NDD vs Result Stats



## Test Results (Lower Limit = 66.0, Upper Limit = 125.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	87.564	87.887	0.3227
2	1e+12	NDD, unbiased	84.354	84.302	-0.0519
3	1e+12	NDD, unbiased	86.361	86.951	0.5898
4	5e+12	NDD, unbiased	86.969	89.919	2.9504
5	5e+12	NDD, unbiased	86.053	88.918	2.8643
6	5e+12	NDD, unbiased	83.187	84.871	1.6839
7	1e+13	NDD, unbiased	84.875	90.732	5.8575
8	1e+13	NDD, unbiased	84.441	89.783	5.3423
9	1e+13	NDD, unbiased	87.305	92.719	5.4134
10	0	correlation	85.225	85.796	0.5705
11	0	correlation	84.205	84.719	0.5143
12	0	correlation	90.571	89.049	-1.5221

## NDD vs Post - Pre Exposure Delta

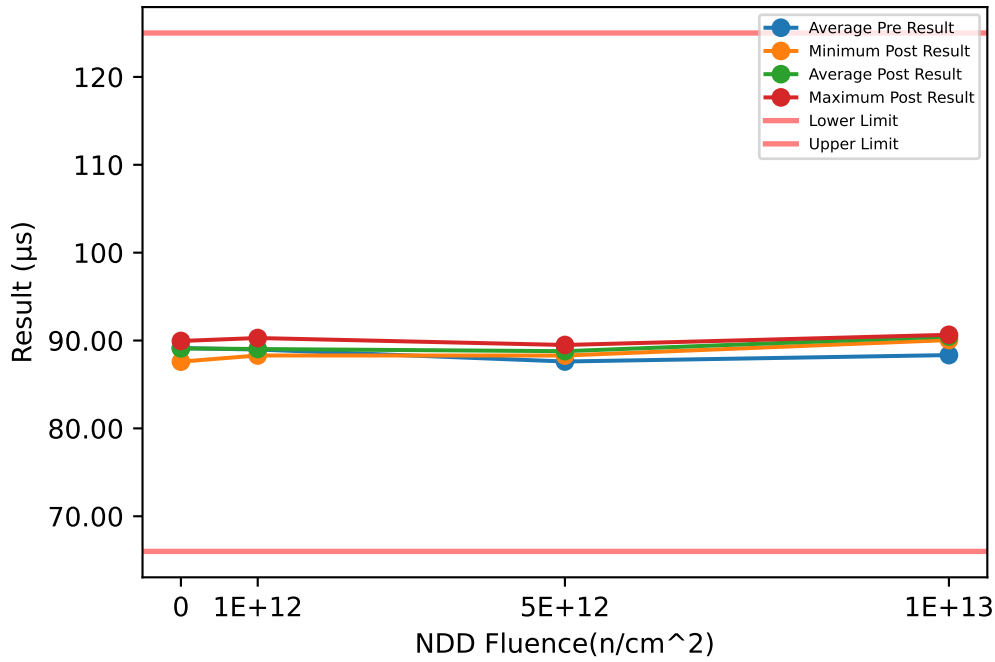


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	84.205	86.667	90.571	3.4193	84.719	86.521	89.049	2.2543	-1.5221	-0.14577	0.5705	1.1923
1e+12	84.354	86.093	87.564	1.6219	84.302	86.38	87.887	1.8594	-0.0519	0.28687	0.5898	0.32235
5e+12	83.187	85.403	86.969	1.9729	84.871	87.903	89.919	2.6728	1.6839	2.4995	2.9504	0.70767
1e+13	84.441	85.54	87.305	1.5439	89.783	91.078	92.719	1.498	5.3423	5.5377	5.8575	0.2792

# Device Test: 15.18 UJ6AIM(TFALL\_CH3\_UJ6AIM)

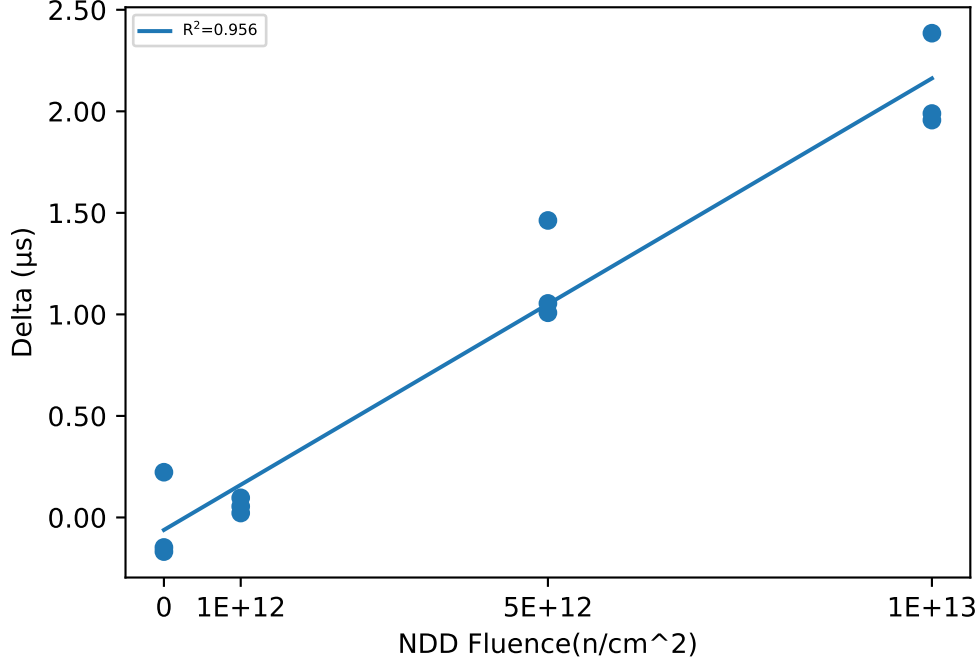
## NDD vs Result Stats



## Test Results (Lower Limit = 66.0, Upper Limit = 125.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	90.23	90.284	0.0545
2	1e+12	NDD, unbiased	88.496	88.517	0.0218
3	1e+12	NDD, unbiased	88.201	88.298	0.0967
4	5e+12	NDD, unbiased	87.114	88.576	1.4626
5	5e+12	NDD, unbiased	88.438	89.492	1.0541
6	5e+12	NDD, unbiased	87.286	88.294	1.008
7	1e+13	NDD, unbiased	88.067	90.056	1.9892
8	1e+13	NDD, unbiased	88.267	90.652	2.3847
9	1e+13	NDD, unbiased	88.695	90.652	1.9567
10	0	correlation	89.914	89.766	-0.1477
11	0	correlation	90.117	89.949	-0.1681
12	0	correlation	87.375	87.598	0.2228

## NDD vs Post - Pre Exposure Delta

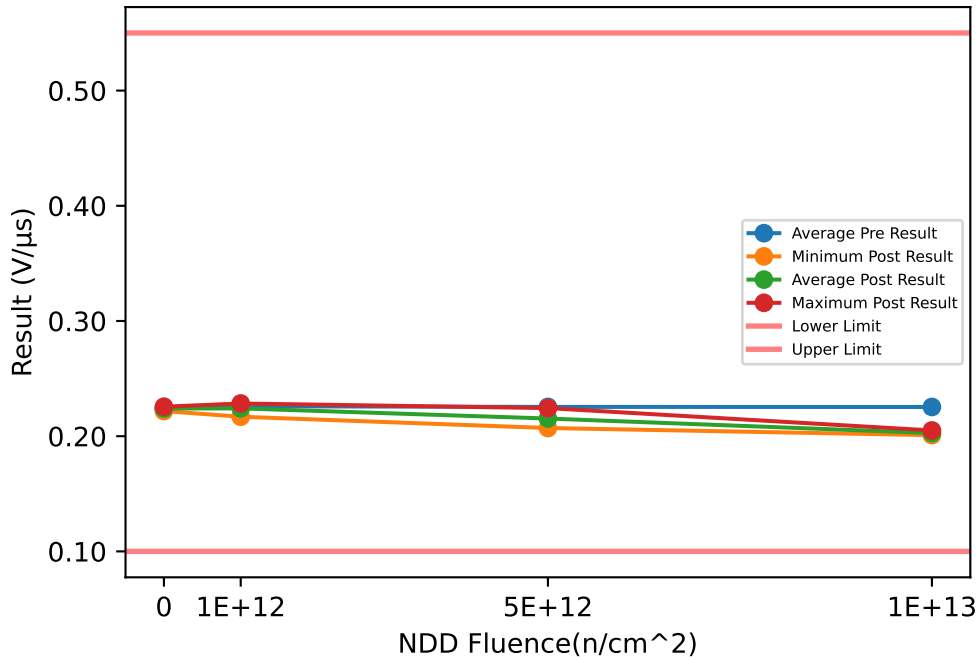


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	87.375	89.135	90.117	1.528	87.598	89.104	89.949	1.3081	-0.1681	-0.031	0.2228	0.22003
1e+12	88.201	88.976	90.23	1.0962	88.298	89.033	90.284	1.0891	0.0218	0.057667	0.0967	0.03755
5e+12	87.114	87.612	88.438	0.71982	88.294	88.787	89.492	0.62622	1.008	1.1749	1.4626	0.25022
1e+13	88.067	88.343	88.695	0.32111	90.056	90.453	90.652	0.3441	1.9567	2.1102	2.3847	0.23828

# Device Test: 15.19 UJPEEL(SLEWRATE\_ON\_CH3\_UJPEEL)

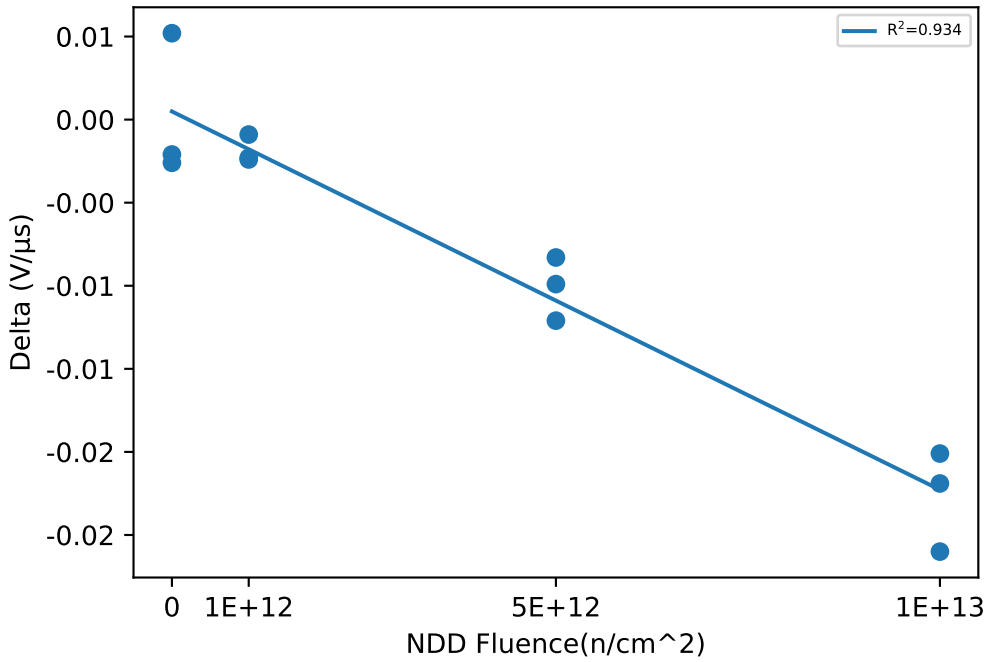
## NDD vs Result Stats



## Test Results (Lower Limit = 0.1, Upper Limit = 0.55 (V/μs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.2192	0.2169	-0.0023
2	1e+12	NDD, unbiased	0.2308	0.2284	-0.0024
3	1e+12	NDD, unbiased	0.228	0.2271	-0.0009
4	5e+12	NDD, unbiased	0.2192	0.2071	-0.0121
5	5e+12	NDD, unbiased	0.2244	0.2145	-0.0099
6	5e+12	NDD, unbiased	0.2327	0.2244	-0.0083
7	1e+13	NDD, unbiased	0.231	0.205	-0.026
8	1e+13	NDD, unbiased	0.2241	0.2022	-0.0219
9	1e+13	NDD, unbiased	0.221	0.2009	-0.0201
10	0	correlation	0.2267	0.2246	-0.0021
11	0	correlation	0.2244	0.2218	-0.0026
12	0	correlation	0.2204	0.2256	0.0052

## NDD vs Post - Pre Exposure Delta

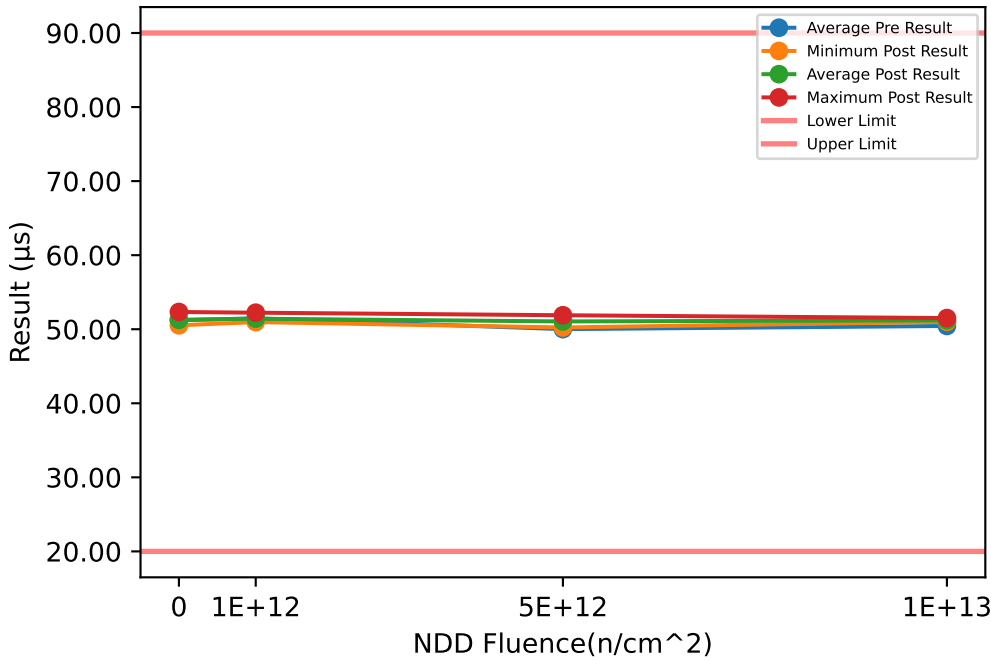


## Test Statistics (V/μs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2204	0.22383	0.2267	0.003188	0.2218	0.224	0.2256	0.0019698	-0.0026	0.00016667	0.0052	0.0043662
1e+12	0.2192	0.226	0.2308	0.0060531	0.2169	0.22413	0.2284	0.0062979	-0.0024	-0.0018667	-0.0009	0.00083865
5e+12	0.2192	0.22543	0.2327	0.0068091	0.2071	0.21533	0.2244	0.0086801	-0.0121	-0.0101	-0.0083	0.0019079
1e+13	0.221	0.22537	0.231	0.0051189	0.2009	0.2027	0.205	0.0020952	-0.026	-0.022667	-0.0201	0.0030238

# Device Test: 15.2 UJZB3P(TOFF\_DELAY\_CH1\_UJZB3P)

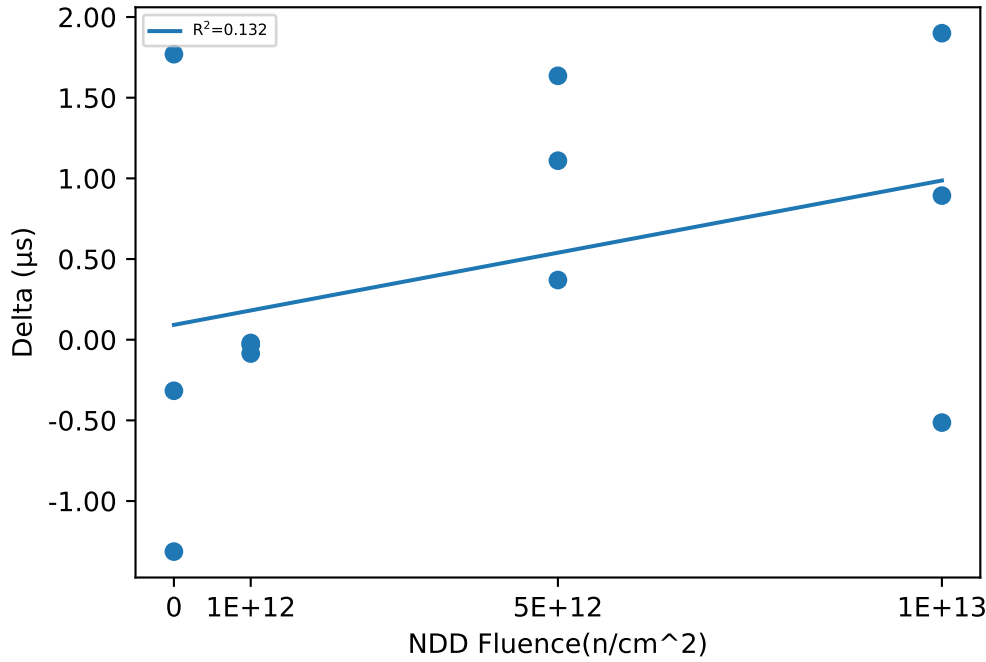
## NDD vs Result Stats



## Test Results (Lower Limit = 20.0, Upper Limit = 90.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	51.091	51.071	-0.0201
2	1e+12	NDD, unbiased	50.995	50.964	-0.0314
3	1e+12	NDD, unbiased	52.317	52.231	-0.0856
4	5e+12	NDD, unbiased	49.395	51.03	1.6355
5	5e+12	NDD, unbiased	49.867	50.237	0.3699
6	5e+12	NDD, unbiased	50.778	51.888	1.1095
7	1e+13	NDD, unbiased	52.022	51.509	-0.5136
8	1e+13	NDD, unbiased	49.188	51.087	1.8998
9	1e+13	NDD, unbiased	50.108	51.002	0.8932
10	0	correlation	50.848	50.532	-0.3165
11	0	correlation	52.249	50.936	-1.3133
12	0	correlation	50.56	52.329	1.7697

## NDD vs Post - Pre Exposure Delta

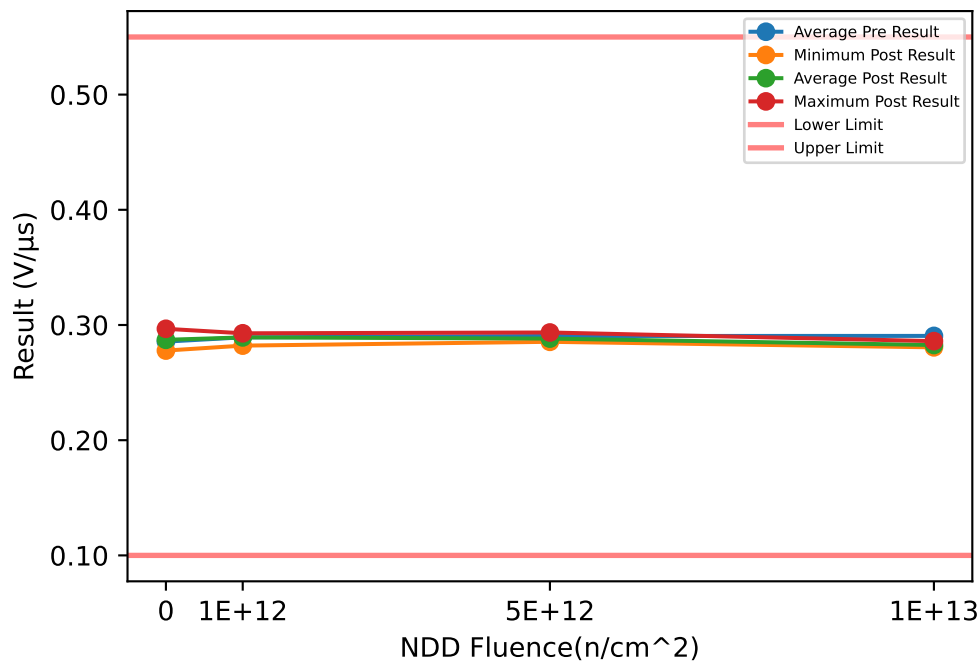


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	50.56	51.219	52.249	0.90381	50.532	51.266	52.329	0.94315	-1.3133	0.046633	1.7697	1.5733
1e+12	50.995	51.468	52.317	0.73694	50.964	51.422	52.231	0.70287	-0.0856	-0.0457	-0.0201	0.035013
5e+12	49.395	50.013	50.778	0.70345	50.237	51.052	51.888	0.82571	0.3699	1.0383	1.6355	0.6358
1e+13	49.188	50.439	52.022	1.4461	51.002	51.199	51.509	0.27151	-0.5136	0.7598	1.8998	1.2122

# Device Test: 15.20 UJD80I(SLEWRATE\_OFF\_CH3\_UJD80I)

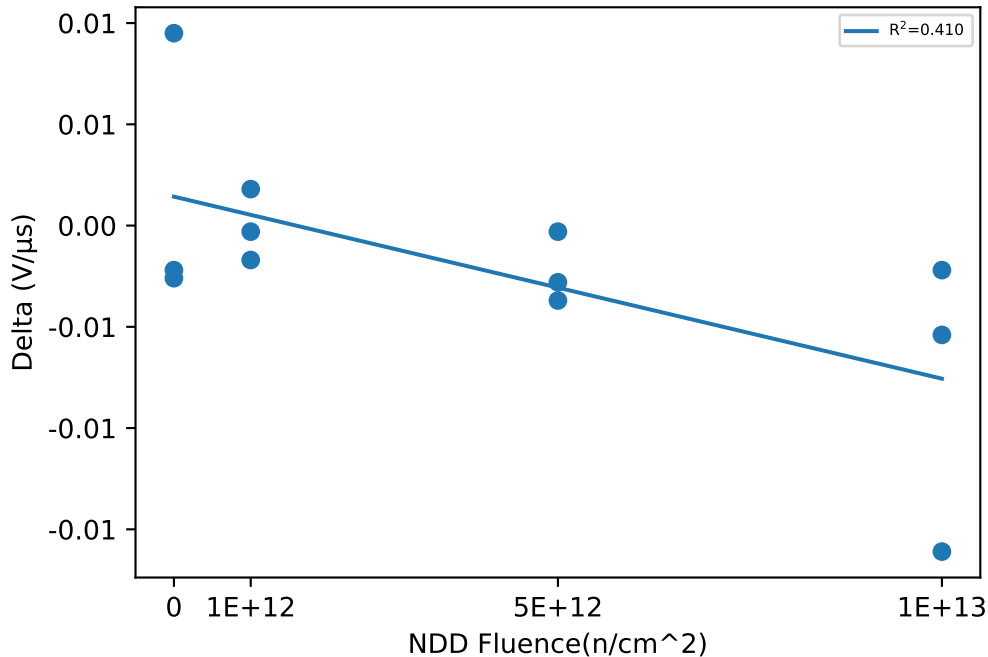
## NDD vs Result Stats



## Test Results (Lower Limit = 0.1, Upper Limit = 0.55 (V/μs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.2824	0.2821	-0.0003
2	1e+12	NDD, unbiased	0.291	0.2928	0.0018
3	1e+12	NDD, unbiased	0.2945	0.2928	-0.0017
4	5e+12	NDD, unbiased	0.2894	0.2857	-0.0037
5	5e+12	NDD, unbiased	0.2882	0.2854	-0.0028
6	5e+12	NDD, unbiased	0.2938	0.2935	-0.0003
7	1e+13	NDD, unbiased	0.2974	0.2813	-0.0161
8	1e+13	NDD, unbiased	0.2882	0.286	-0.0022
9	1e+13	NDD, unbiased	0.286	0.2806	-0.0054
10	0	correlation	0.2804	0.2778	-0.0026
11	0	correlation	0.2891	0.2869	-0.0022
12	0	correlation	0.2872	0.2967	0.0095

## NDD vs Post - Pre Exposure Delta

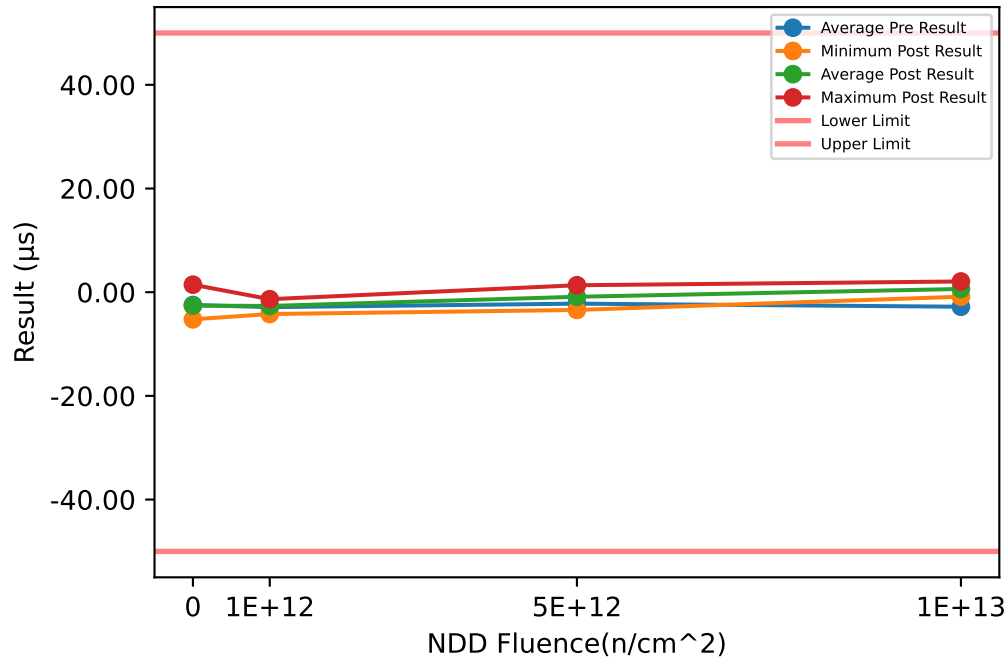


## Test Statistics (V/μs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2804	0.28557	0.2891	0.0045742	0.2778	0.28713	0.2967	0.0094522	-0.0026	0.0015667	0.0095	0.0068734
1e+12	0.2824	0.2893	0.2945	0.0062266	0.2821	0.28923	0.2928	0.0061776	-0.0017	-6.6667e-05	0.0018	0.0017616
5e+12	0.2882	0.29047	0.2938	0.0029484	0.2854	0.2882	0.2935	0.0045924	-0.0037	-0.0022667	-0.0003	0.0017616
1e+13	0.286	0.29053	0.2974	0.0060476	0.2806	0.28263	0.286	0.0029366	-0.0161	-0.0079	-0.0022	0.0072794

# Device Test: 15.21 UJHGWM(TMATCH\_CH3\_UJHGWM)

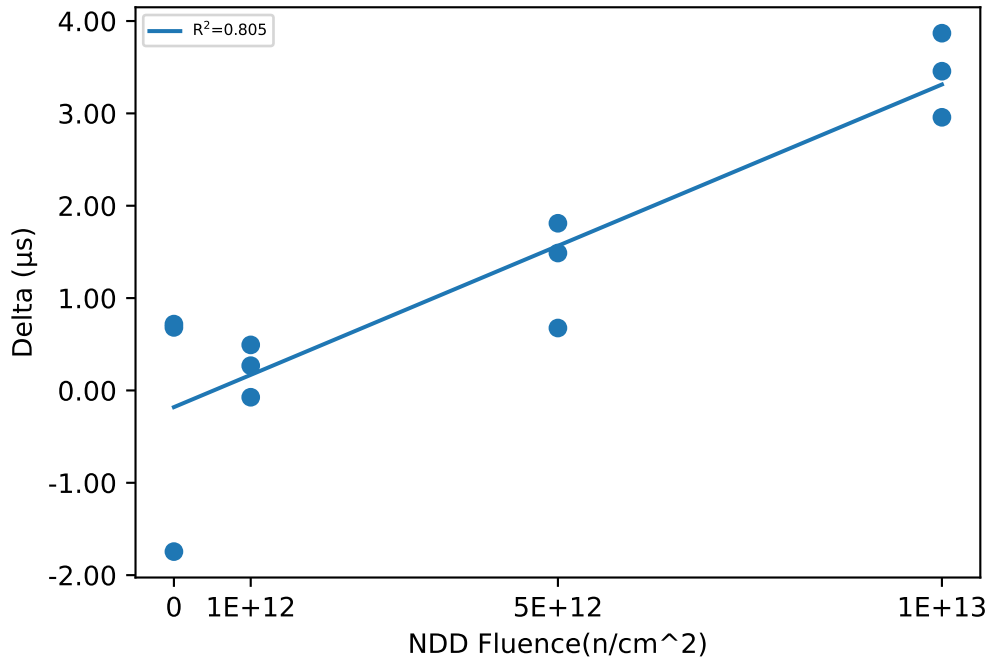
## NDD vs Result Stats



## Test Results (Lower Limit = -50.0, Upper Limit = 50.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-2.6654	-2.3972	0.2682
2	1e+12	NDD, unbiased	-4.1416	-4.2153	-0.0737
3	1e+12	NDD, unbiased	-1.8402	-1.3471	0.4931
4	5e+12	NDD, unbiased	-0.1452	1.3427	1.4879
5	5e+12	NDD, unbiased	-2.3844	-0.5742	1.8102
6	5e+12	NDD, unbiased	-4.0987	-3.4228	0.6759
7	1e+13	NDD, unbiased	-3.1919	0.6764	3.8683
8	1e+13	NDD, unbiased	-3.8259	-0.8683	2.9576
9	1e+13	NDD, unbiased	-1.3896	2.0671	3.4567
10	0	correlation	-4.6885	-3.9703	0.7182
11	0	correlation	-5.913	-5.2306	0.6824
12	0	correlation	3.1961	1.4511	-1.745

## NDD vs Post - Pre Exposure Delta

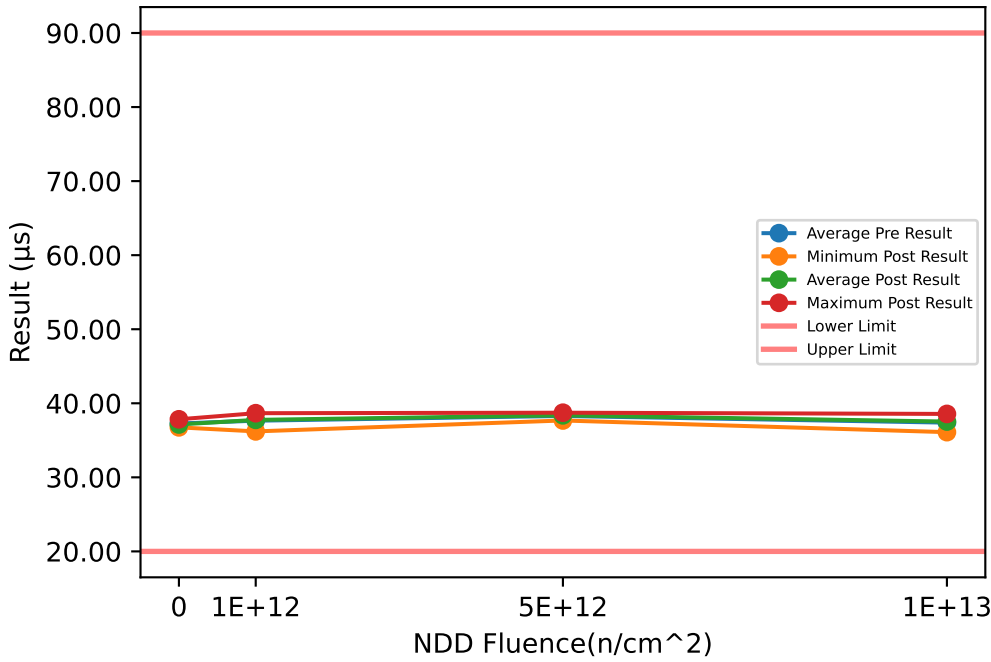


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-5.913	-2.4685	3.1961	4.9437	-5.2306	-2.5833	1.4511	3.5502	-1.745	-0.1148	0.7182	1.4119
1e+12	-4.1416	-2.8824	-1.8402	1.1659	-4.2153	-2.6532	-1.3471	1.4511	-0.0737	0.2292	0.4931	0.28541
5e+12	-4.0987	-2.2094	-0.1452	1.9825	-3.4228	-0.88477	1.3427	2.3979	0.6759	1.3247	1.8102	0.5845
1e+13	-3.8259	-2.8025	-1.3896	1.264	-0.8683	0.62507	2.0671	1.4684	2.9576	3.4275	3.8683	0.45605

# Device Test: 15.22 UJ33GQ(TON\_DELAY\_CH4\_UJ33GQ)

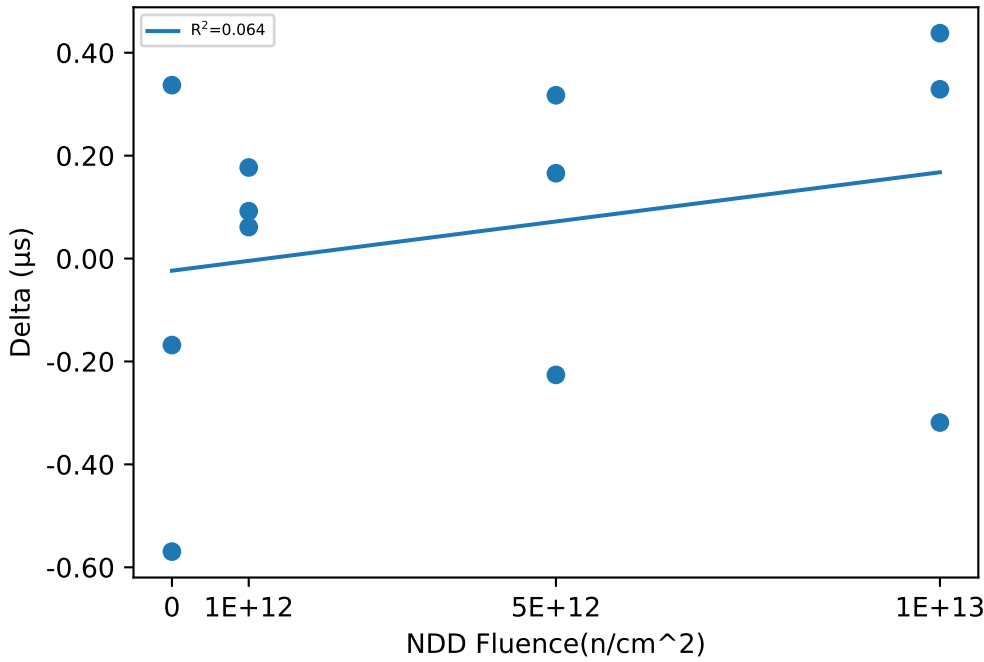
## NDD vs Result Stats



## Test Results (Lower Limit = 20.0, Upper Limit = 90.0 (µs))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	36.142	36.204	0.0612
2	1e+12	NDD, unbiased	38.233	38.41	0.177
3	1e+12	NDD, unbiased	38.569	38.661	0.0921
4	5e+12	NDD, unbiased	37.512	37.678	0.1658
5	5e+12	NDD, unbiased	38.41	38.728	0.3174
6	5e+12	NDD, unbiased	38.939	38.713	-0.2261
7	1e+13	NDD, unbiased	35.664	36.102	0.438
8	1e+13	NDD, unbiased	38.235	38.564	0.329
9	1e+13	NDD, unbiased	38.255	37.937	-0.3187
10	0	correlation	38.006	37.838	-0.1681
11	0	correlation	36.413	36.75	0.337
12	0	correlation	37.393	36.824	-0.5695

## NDD vs Post - Pre Exposure Delta

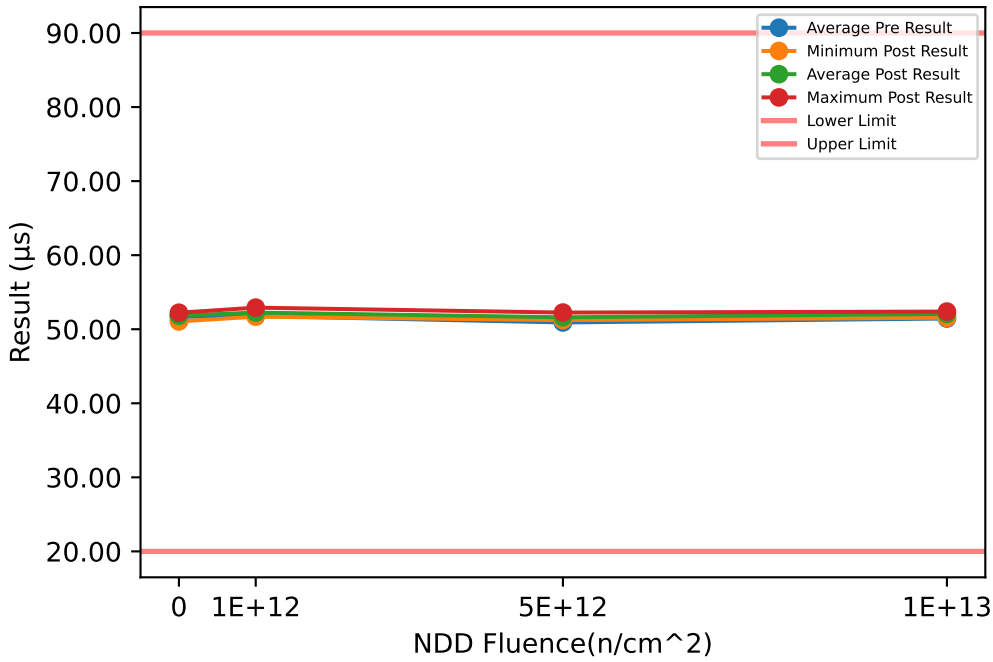


## Test Statistics (µs)

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	36.413	37.271	38.006	0.80384	36.75	37.137	37.838	0.60816	-0.5695	-0.13353	0.337	0.45424
1e+12	36.142	37.648	38.569	1.3149	36.204	37.758	38.661	1.3523	0.0612	0.1101	0.177	0.059962
5e+12	37.512	38.287	38.939	0.72102	37.678	38.373	38.728	0.60153	-0.2261	0.0857	0.3174	0.28046
1e+13	35.664	37.385	38.255	1.4905	36.102	37.534	38.564	1.2796	-0.3187	0.14943	0.438	0.40906

# Device Test: 15.23 UJZB3P(TOFF\_DELAY\_CH4\_UJZB3P)

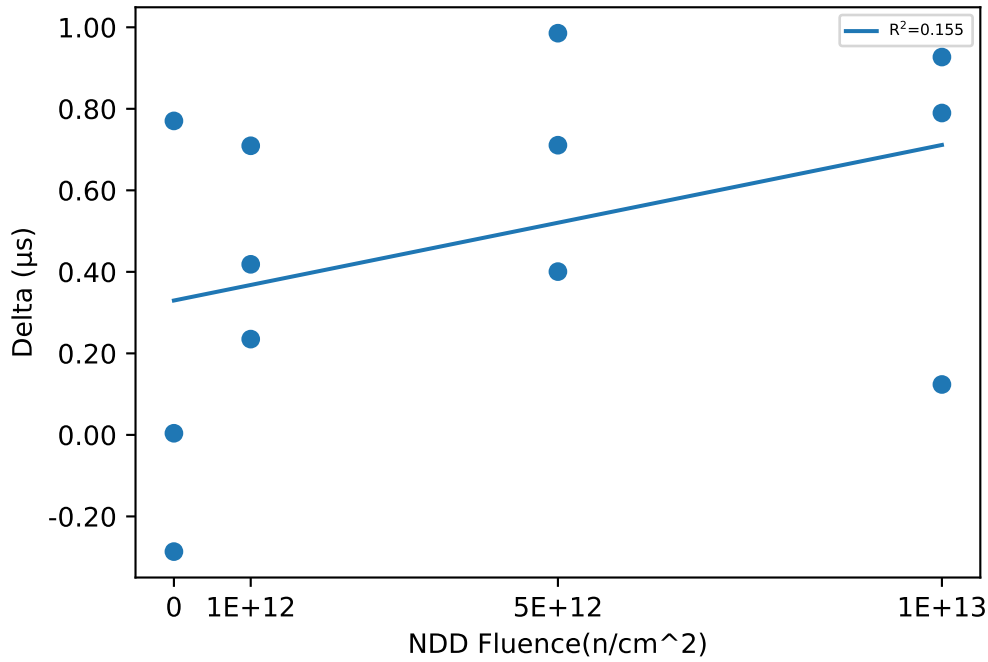
## NDD vs Result Stats



## Test Results (Lower Limit = 20.0, Upper Limit = 90.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	51.462	51.697	0.235
2	1e+12	NDD, unbiased	52.205	52.915	0.7093
3	1e+12	NDD, unbiased	51.715	52.134	0.4185
4	5e+12	NDD, unbiased	50.25	51.236	0.9855
5	5e+12	NDD, unbiased	50.639	51.35	0.7107
6	5e+12	NDD, unbiased	51.848	52.249	0.4006
7	1e+13	NDD, unbiased	52.12	52.244	0.1237
8	1e+13	NDD, unbiased	50.767	51.557	0.7897
9	1e+13	NDD, unbiased	51.456	52.383	0.927
10	0	correlation	51.339	51.053	-0.2863
11	0	correlation	52.222	52.226	0.004
12	0	correlation	51.451	52.221	0.7703

## NDD vs Post - Pre Exposure Delta



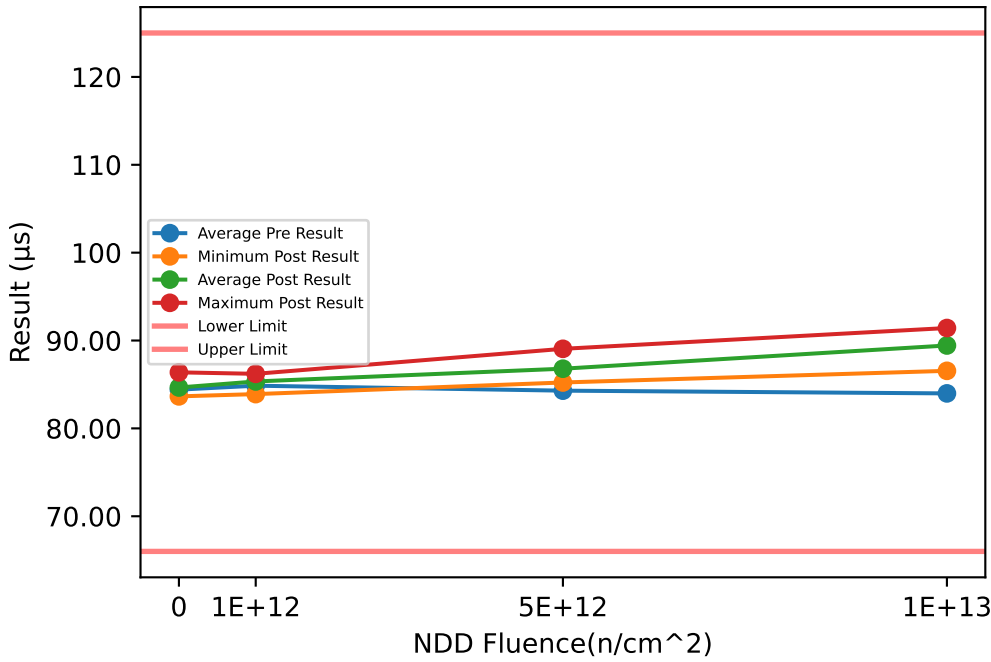
## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	51.339	51.671	52.222	0.48095	51.053	51.833	52.226	0.676	-0.2863	0.16267	0.7703	0.54588
1e+12	51.462	51.794	52.205	0.37767	51.697	52.249	52.915	0.61663	0.235	0.45427	0.7093	0.23916
5e+12	50.25	50.913	51.848	0.83352	51.236	51.611	52.249	0.55508	0.4006	0.69893	0.9855	0.29263
1e+13	50.767	51.448	52.12	0.67654	51.557	52.061	52.383	0.44255	0.1237	0.61347	0.927	0.42967



# Device Test: 15.24 UJP09Y(TRISE\_CH4\_UJP09Y)

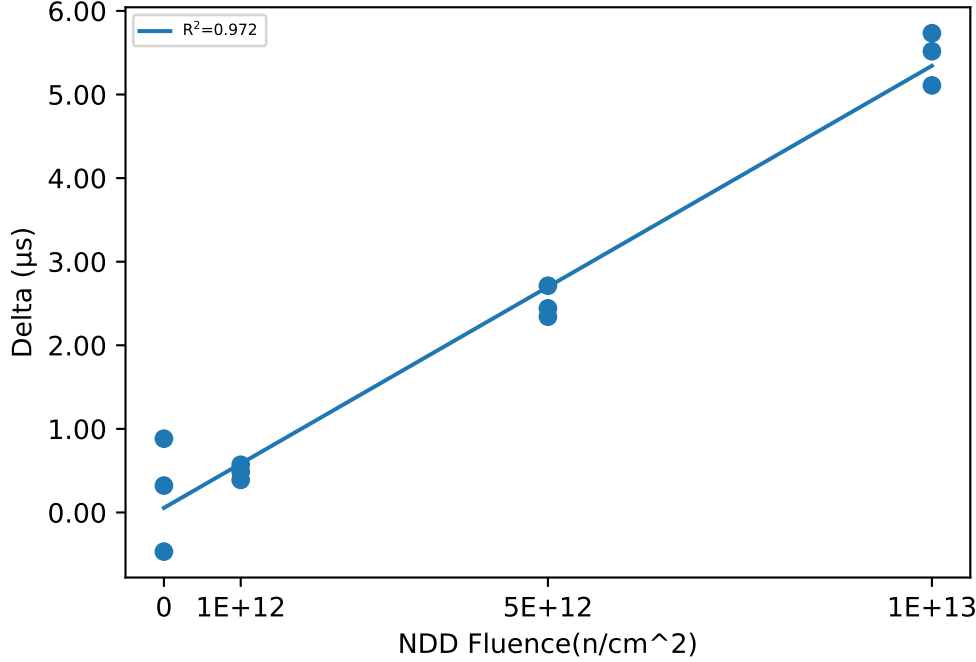
## NDD vs Result Stats



## Test Results (Lower Limit = 66.0, Upper Limit = 125.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	85.819	86.209	0.39
2	1e+12	NDD, unbiased	83.331	83.902	0.571
3	1e+12	NDD, unbiased	85.425	85.912	0.4869
4	5e+12	NDD, unbiased	82.882	85.224	2.342
5	5e+12	NDD, unbiased	86.343	89.056	2.7128
6	5e+12	NDD, unbiased	83.656	86.098	2.442
7	1e+13	NDD, unbiased	80.817	86.55	5.7333
8	1e+13	NDD, unbiased	84.817	90.335	5.5172
9	1e+13	NDD, unbiased	86.314	91.423	5.109
10	0	correlation	86.057	86.379	0.3219
11	0	correlation	83.058	83.941	0.8829
12	0	correlation	84.111	83.644	-0.4679

## NDD vs Post - Pre Exposure Delta

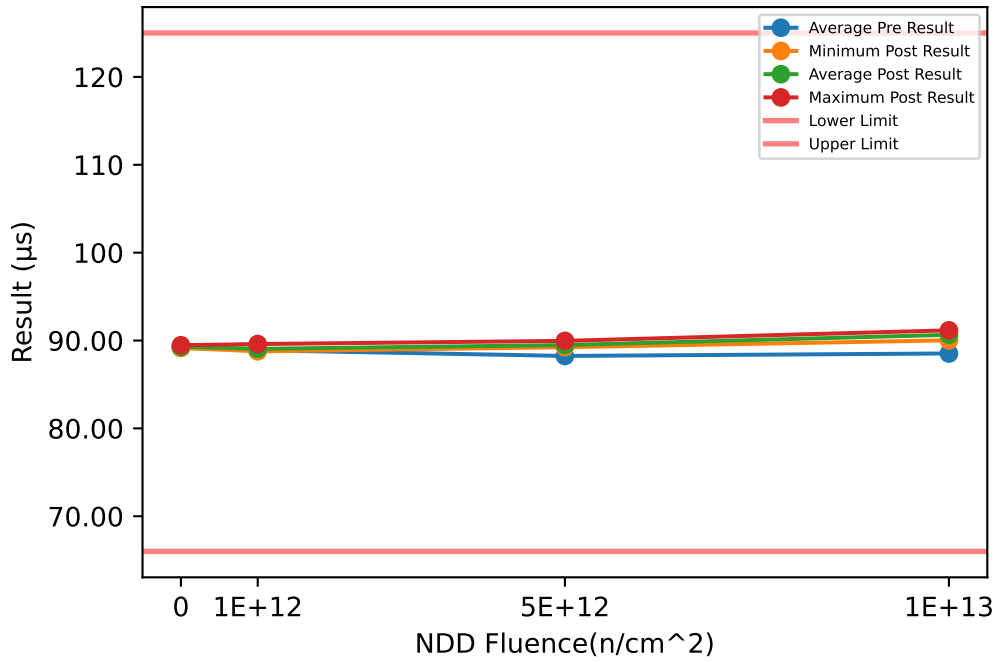


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	83.058	84.409	86.057	1.5215	83.644	84.654	86.379	1.5008	-0.4679	0.24563	0.8829	0.67862
1e+12	83.331	84.858	85.819	1.3376	83.902	85.341	86.209	1.2553	0.39	0.48263	0.571	0.090575
5e+12	82.882	84.294	86.343	1.8165	85.224	86.793	89.056	2.0081	2.342	2.4989	2.7128	0.19184
1e+13	80.817	83.983	86.314	2.842	86.55	89.436	91.423	2.5577	5.109	5.4532	5.7333	0.31704

# Device Test: 15.25 UJ6AIM(TFALL\_CH4\_UJ6AIM)

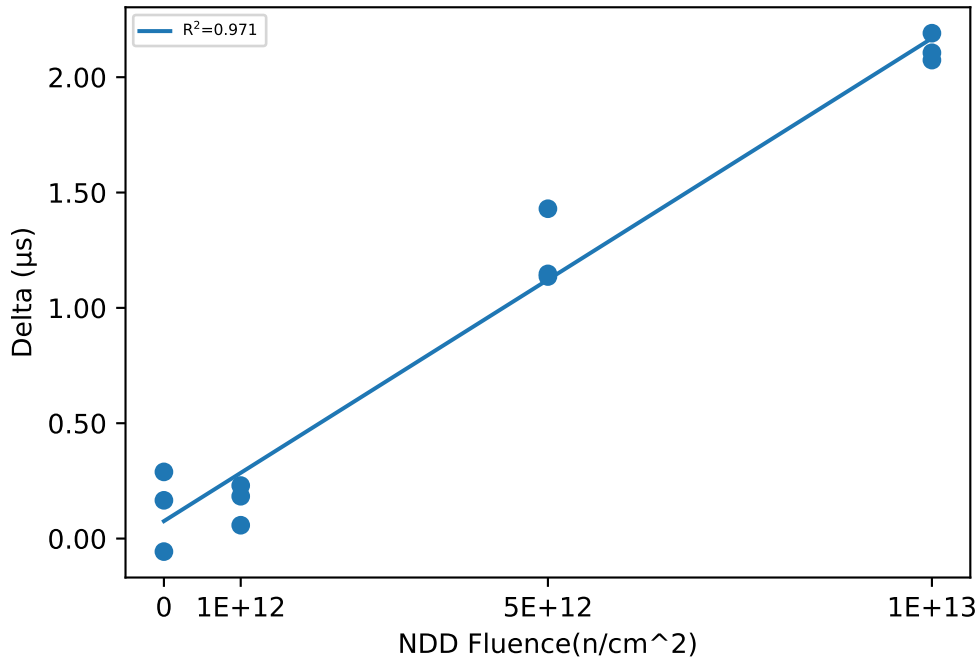
## NDD vs Result Stats



## Test Results (Lower Limit = 66.0, Upper Limit = 125.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	88.714	88.772	0.0578
2	1e+12	NDD, unbiased	89.37	89.6	0.2298
3	1e+12	NDD, unbiased	88.604	88.788	0.1834
4	5e+12	NDD, unbiased	87.811	89.241	1.4298
5	5e+12	NDD, unbiased	88.111	89.247	1.1359
6	5e+12	NDD, unbiased	88.814	89.961	1.1473
7	1e+13	NDD, unbiased	88.658	90.764	2.1059
8	1e+13	NDD, unbiased	87.834	90.025	2.1907
9	1e+13	NDD, unbiased	89.085	91.159	2.0741
10	0	correlation	88.996	89.162	0.1658
11	0	correlation	89.52	89.463	-0.0565
12	0	correlation	89.006	89.295	0.289

## NDD vs Post - Pre Exposure Delta

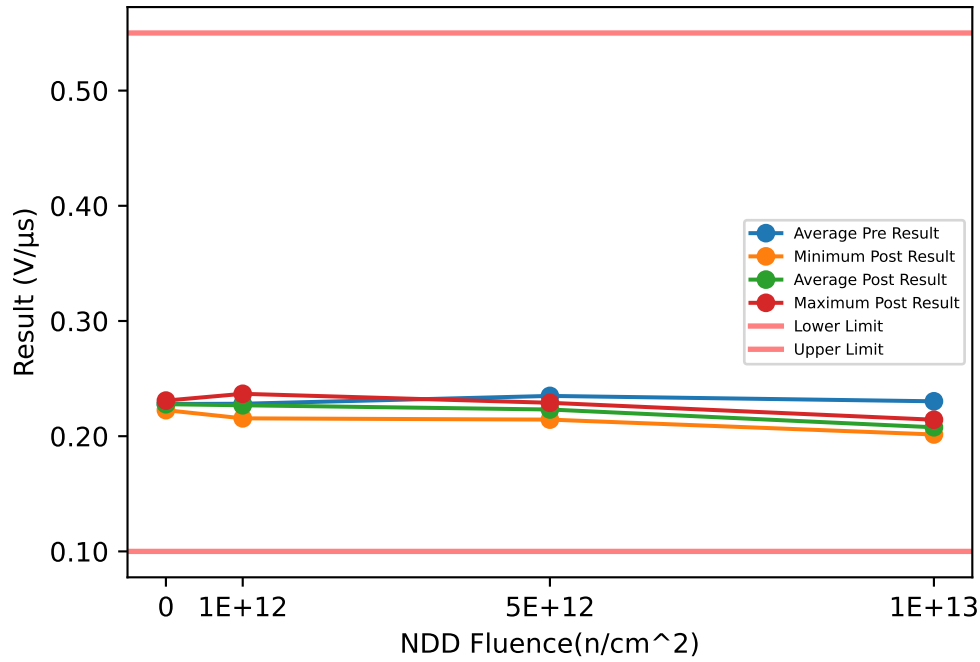


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	88.996	89.174	89.52	0.2994	89.162	89.307	89.463	0.15089	-0.0565	0.13277	0.289	0.1751
1e+12	88.604	88.896	89.37	0.41405	88.772	89.053	89.6	0.47349	0.0578	0.157	0.2298	0.088987
5e+12	87.811	88.246	88.814	0.51459	89.241	89.483	89.961	0.41406	1.1359	1.2377	1.4298	0.16649
1e+13	87.834	88.526	89.085	0.63612	90.025	90.649	91.159	0.57603	2.0741	2.1236	2.1907	0.060274

# Device Test: 15.26 UJPEEL(SLEWRATE\_ON\_CH4\_UJPEEL)

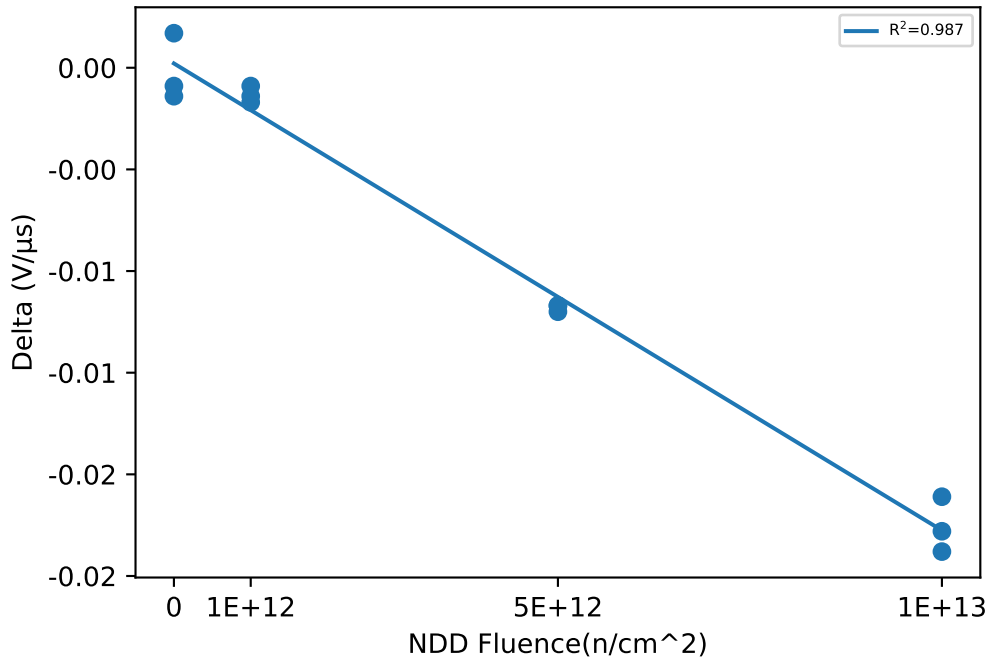
## NDD vs Result Stats



## Test Results (Lower Limit = 0.1, Upper Limit = 0.55 (V/μs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.2169	0.2155	-0.0014
2	1e+12	NDD, unbiased	0.2377	0.2368	-0.0009
3	1e+12	NDD, unbiased	0.2299	0.2282	-0.0017
4	5e+12	NDD, unbiased	0.2381	0.2261	-0.012
5	5e+12	NDD, unbiased	0.2261	0.2144	-0.0117
6	5e+12	NDD, unbiased	0.2407	0.229	-0.0117
7	1e+13	NDD, unbiased	0.2381	0.2143	-0.0238
8	1e+13	NDD, unbiased	0.2302	0.2074	-0.0228
9	1e+13	NDD, unbiased	0.2226	0.2015	-0.0211
10	0	correlation	0.224	0.2226	-0.0014
11	0	correlation	0.2307	0.2298	-0.0009
12	0	correlation	0.2292	0.2309	0.0017

## NDD vs Post - Pre Exposure Delta

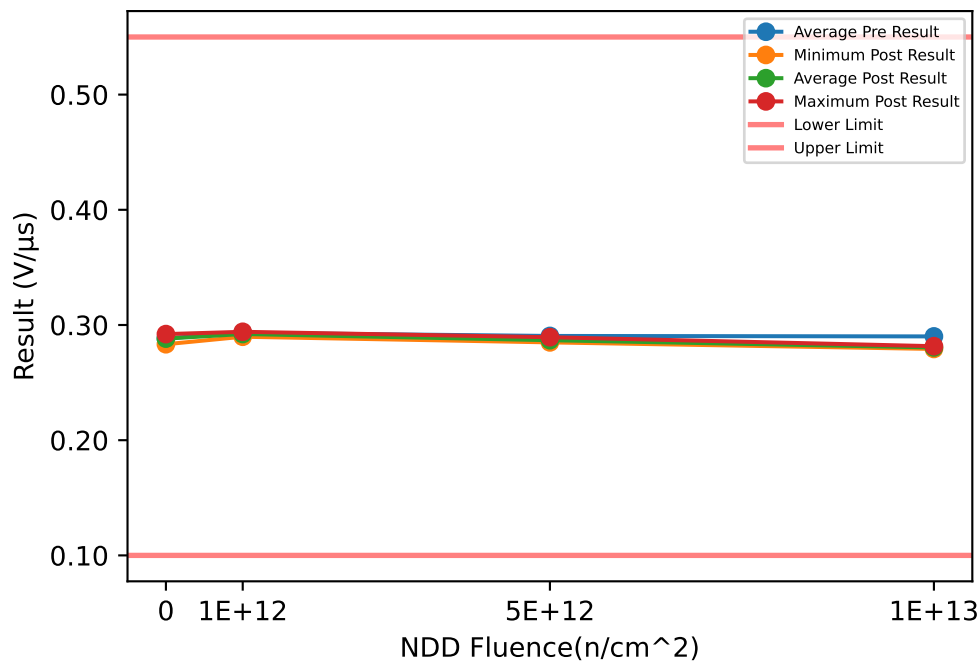


## Test Statistics (V/μs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.224	0.22797	0.2307	0.0035162	0.2226	0.22777	0.2309	0.0045081	-0.0014	-0.0002	0.0017	0.0016643
1e+12	0.2169	0.22817	0.2377	0.010508	0.2155	0.22683	0.2368	0.010716	-0.0017	-0.0013333	-0.0009	0.00040415
5e+12	0.2261	0.23497	0.2407	0.007788	0.2144	0.22317	0.229	0.0077294	-0.012	-0.0118	-0.0117	0.00017321
1e+13	0.2226	0.2303	0.2381	0.0077505	0.2015	0.20773	0.2143	0.0064065	-0.0238	-0.022567	-0.0211	0.001365

# Device Test: 15.27 UJD80I(SLEWRATE\_OFF\_CH4\_UJD80I)

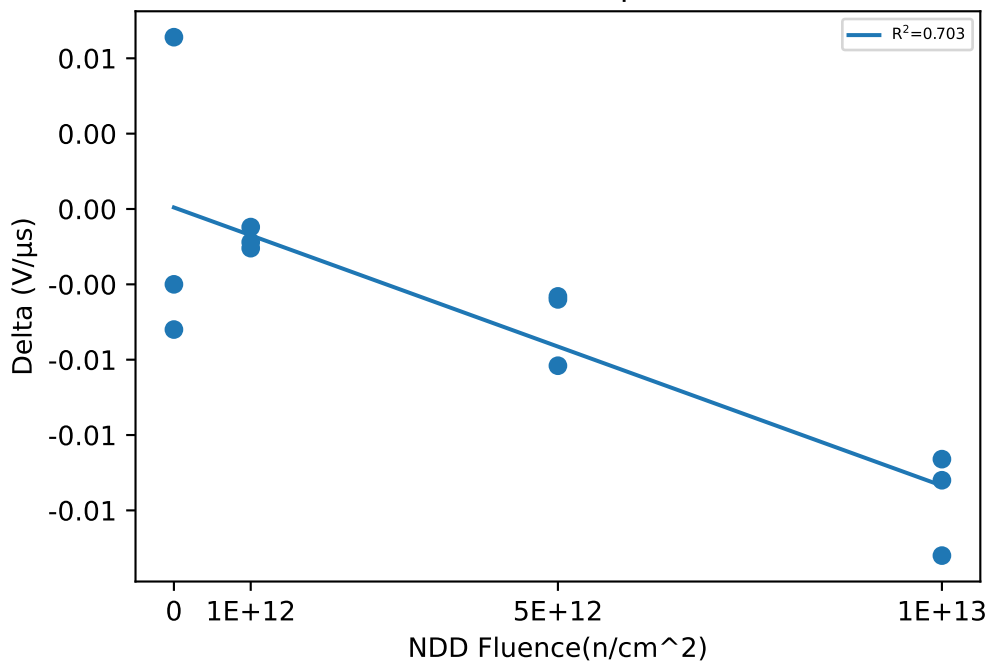
## NDD vs Result Stats



## Test Results (Lower Limit = 0.1, Upper Limit = 0.55 (V/μs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.2909	0.2898	-0.0011
2	1e+12	NDD, unbiased	0.2939	0.2926	-0.0013
3	1e+12	NDD, unbiased	0.2947	0.2941	-0.0006
4	5e+12	NDD, unbiased	0.2901	0.2849	-0.0052
5	5e+12	NDD, unbiased	0.2891	0.2861	-0.003
6	5e+12	NDD, unbiased	0.2923	0.2894	-0.0029
7	1e+13	NDD, unbiased	0.2922	0.2807	-0.0115
8	1e+13	NDD, unbiased	0.2906	0.2816	-0.009
9	1e+13	NDD, unbiased	0.2875	0.2792	-0.0083
10	0	correlation	0.2873	0.2833	-0.004
11	0	correlation	0.2916	0.2891	-0.0025
12	0	correlation	0.2864	0.2921	0.0057

## NDD vs Post - Pre Exposure Delta

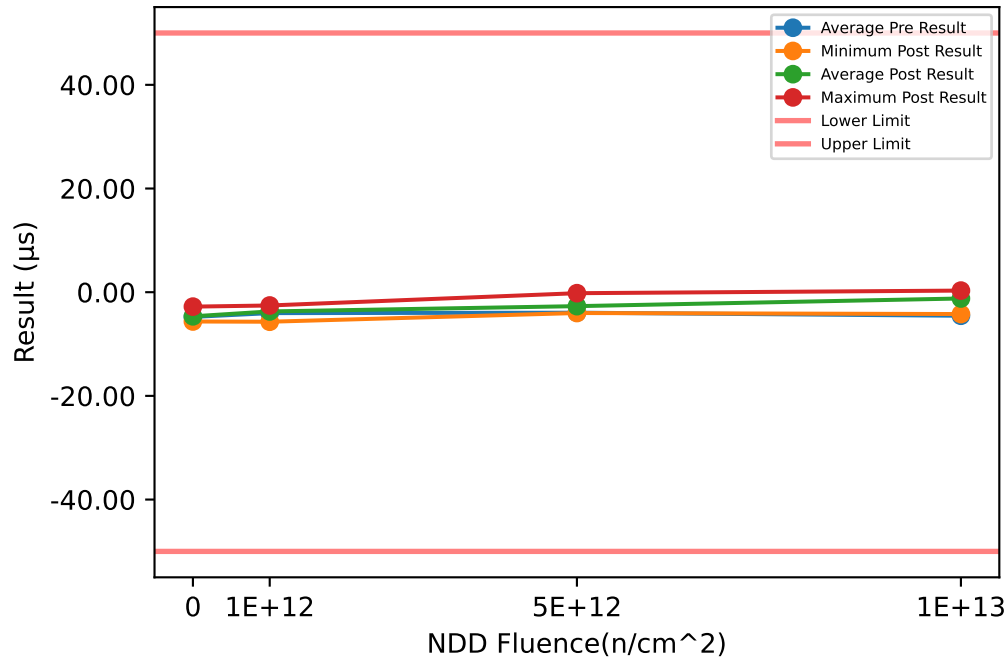


## Test Statistics (V/μs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2864	0.28843	0.2916	0.0027791	0.2833	0.28817	0.2921	0.0044736	-0.004	-0.00026667	0.0057	0.0052214
1e+12	0.2909	0.29317	0.2947	0.0020033	0.2898	0.29217	0.2941	0.0021825	-0.0013	-0.001	-0.0006	0.00036056
5e+12	0.2891	0.2905	0.2923	0.0016371	0.2849	0.2868	0.2894	0.0023302	-0.0052	-0.0037	-0.0029	0.0013
1e+13	0.2875	0.2901	0.2922	0.0023896	0.2792	0.2805	0.2816	0.0012124	-0.0115	-0.0096	-0.0083	0.0016823

# Device Test: 15.28 UJHGWM(TMATCH\_CH4\_UJHGWM)

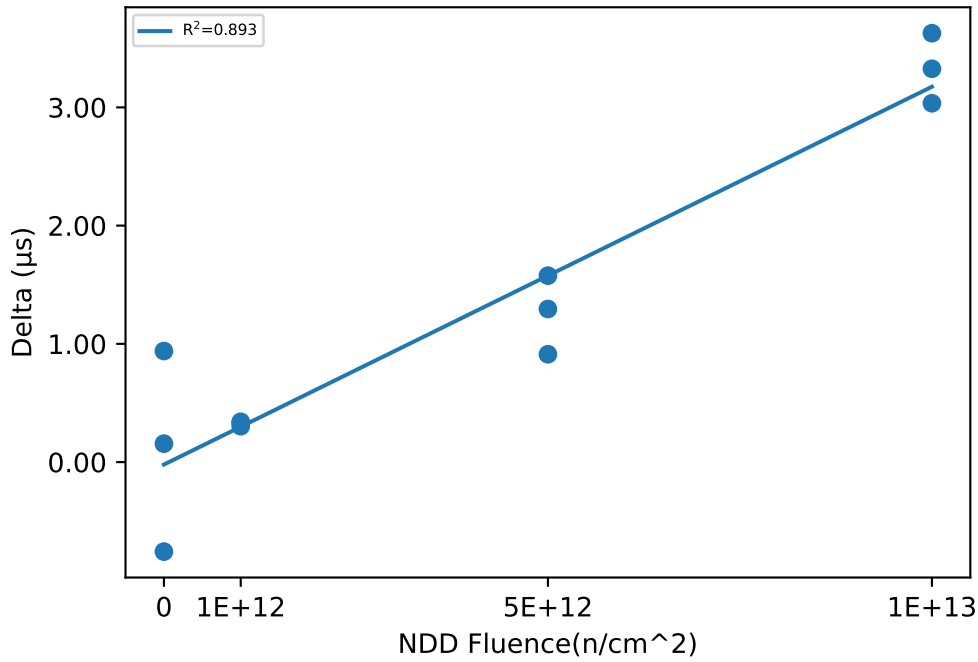
## NDD vs Result Stats



## Test Results (Lower Limit = -50.0, Upper Limit = 50.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-2.8948	-2.5627	0.3321
2	1e+12	NDD, unbiased	-6.0393	-5.6981	0.3412
3	1e+12	NDD, unbiased	-3.1793	-2.8758	0.3035
4	5e+12	NDD, unbiased	-4.9295	-4.0174	0.9121
5	5e+12	NDD, unbiased	-1.7681	-0.1913	1.5768
6	5e+12	NDD, unbiased	-5.1579	-3.8632	1.2947
7	1e+13	NDD, unbiased	-7.8416	-4.2143	3.6273
8	1e+13	NDD, unbiased	-3.0166	0.3099	3.3265
9	1e+13	NDD, unbiased	-2.7717	0.2631	3.0348
10	0	correlation	-2.9393	-2.7832	0.1561
11	0	correlation	-6.4619	-5.5224	0.9395
12	0	correlation	-4.8947	-5.6516	-0.7569

## NDD vs Post - Pre Exposure Delta

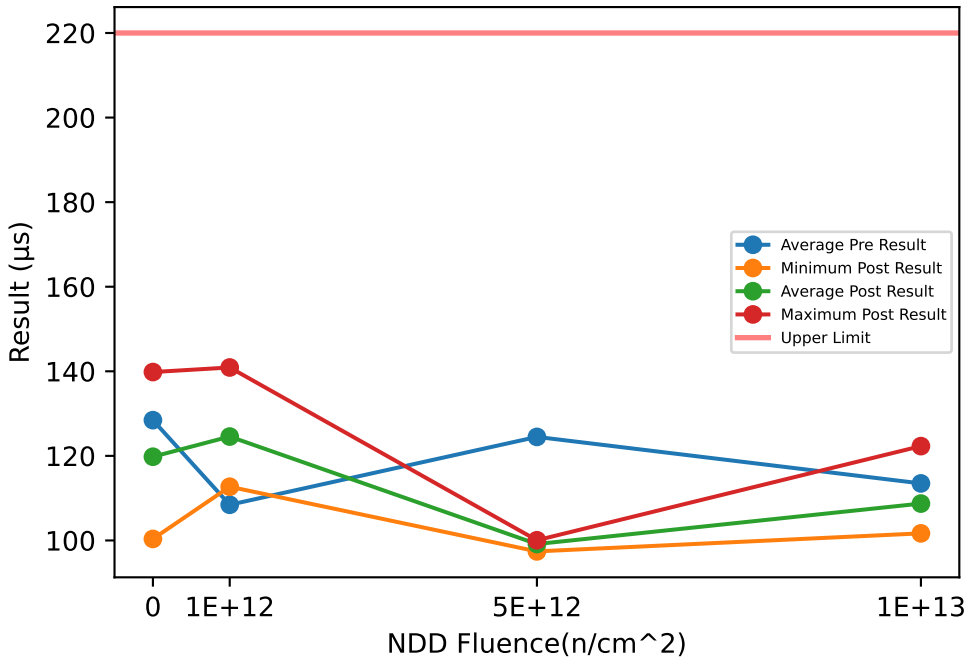


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-6.4619	-4.7653	-2.9393	1.7649	-5.6516	-4.6524	-2.7832	1.6201	-0.7569	0.1129	0.9395	0.84902
1e+12	-6.0393	-4.0378	-2.8948	1.7392	-5.6981	-3.7122	-2.5627	1.727	0.3035	0.3256	0.3412	0.019673
5e+12	-5.1579	-3.9518	-1.7681	1.8946	-4.0174	-2.6906	-0.1913	2.1659	0.9121	1.2612	1.5768	0.33361
1e+13	-7.8416	-4.5433	-2.7717	2.859	-4.2143	-1.2138	0.3099	2.5986	3.0348	3.3295	3.6273	0.29626

# Device Test: 15.29 UJD1II(TCL\_DEGLITCH1\_UJD1II)

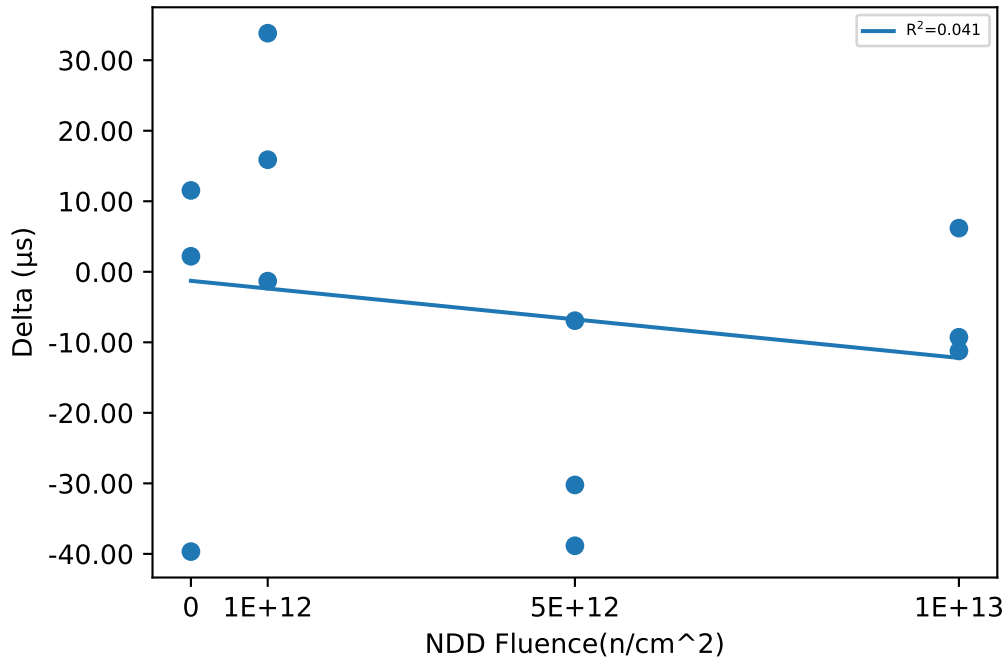
## NDD vs Result Stats



## Test Results (Upper Limit = 220.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	121.42	120.1	-1.3235
2	1e+12	NDD, unbiased	107.07	140.9	33.83
3	1e+12	NDD, unbiased	96.817	112.71	15.89
4	5e+12	NDD, unbiased	106.93	99.998	-6.9314
5	5e+12	NDD, unbiased	138.89	100.05	-38.846
6	5e+12	NDD, unbiased	127.64	97.412	-30.224
7	1e+13	NDD, unbiased	116.11	122.31	6.1927
8	1e+13	NDD, unbiased	113.4	102.17	-11.222
9	1e+13	NDD, unbiased	110.96	101.68	-9.2808
10	0	correlation	128.29	139.82	11.536
11	0	correlation	140.03	100.36	-39.675
12	0	correlation	117.02	119.21	2.195

## NDD vs Post - Pre Exposure Delta

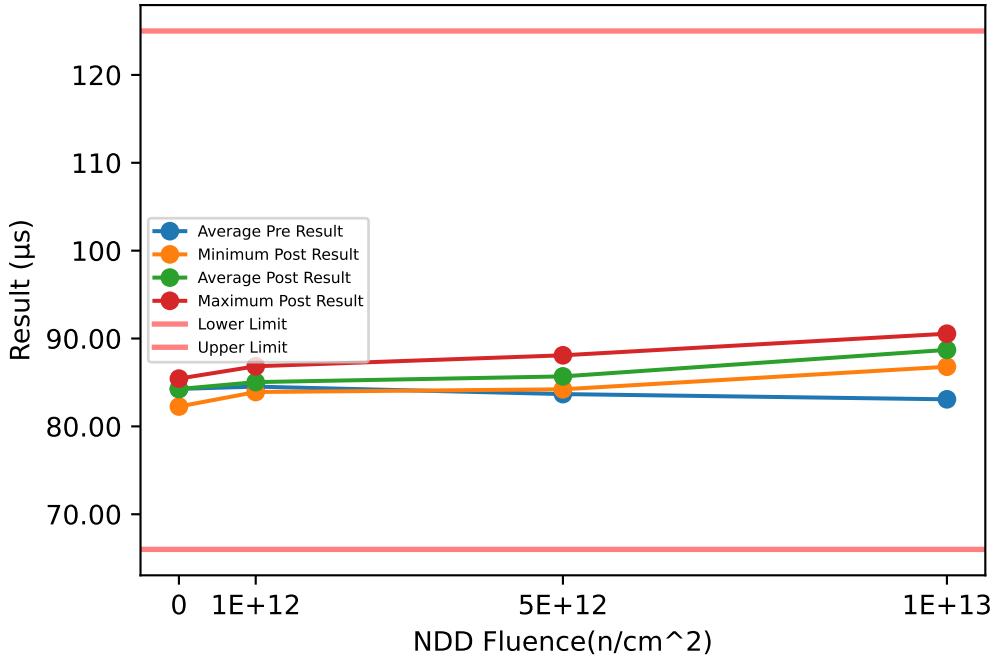


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	117.02	128.45	140.03	11.508	100.36	119.8	139.82	19.739	-39.675	-8.6479	11.536	27.273
1e+12	96.817	108.44	121.42	12.36	112.71	124.57	140.9	14.619	-1.3235	16.132	33.83	17.578
5e+12	106.93	124.49	138.89	16.213	97.412	99.152	100.05	1.5075	-38.846	-25.334	-6.9314	16.51
1e+13	110.96	113.49	116.11	2.5798	101.68	108.72	122.31	11.77	-11.222	-4.7702	6.1927	9.5437

# Device Test: 15.3 UJP09Y(TRISE\_CH1\_UJP09Y)

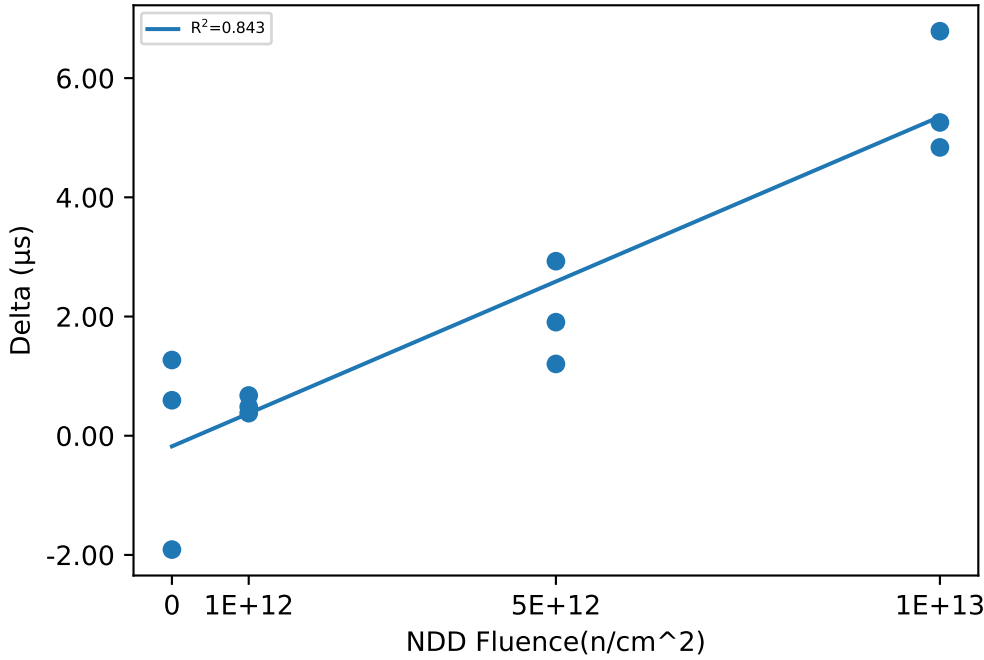
## NDD vs Result Stats



## Test Results (Lower Limit = 66.0, Upper Limit = 125.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	83.878	84.364	0.4856
2	1e+12	NDD, unbiased	86.464	86.842	0.3783
3	1e+12	NDD, unbiased	83.235	83.91	0.6751
4	5e+12	NDD, unbiased	82.85	84.755	1.9052
5	5e+12	NDD, unbiased	85.162	88.09	2.9284
6	5e+12	NDD, unbiased	83.017	84.222	1.2045
7	1e+13	NDD, unbiased	82	88.788	6.7874
8	1e+13	NDD, unbiased	81.951	86.788	4.8374
9	1e+13	NDD, unbiased	85.291	90.548	5.2565
10	0	correlation	84.46	85.055	0.595
11	0	correlation	84.166	85.436	1.2704
12	0	correlation	84.171	82.26	-1.9106

## NDD vs Post - Pre Exposure Delta

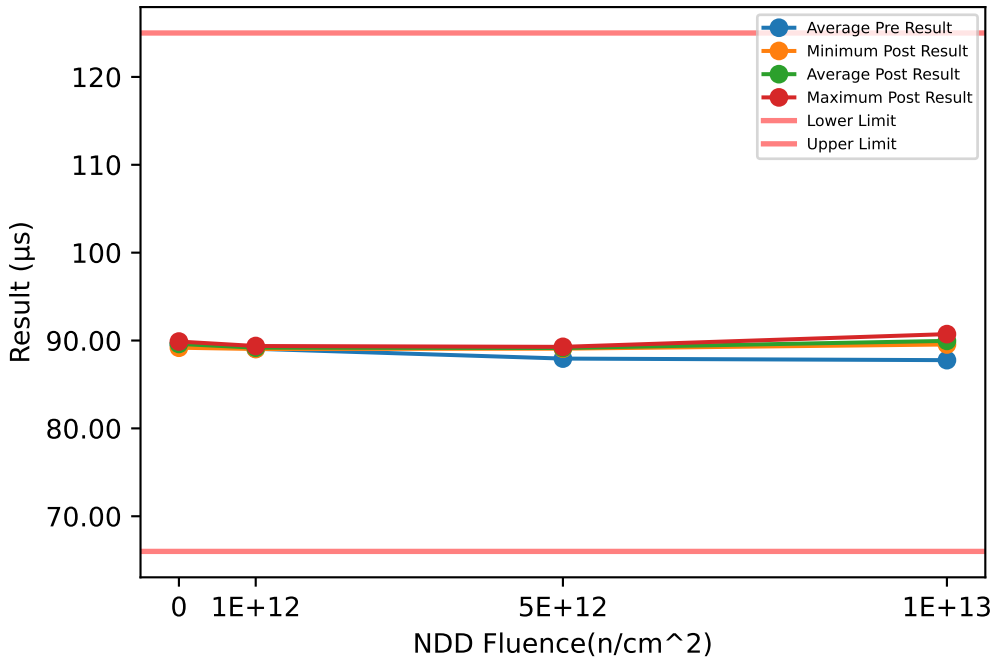


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	84.166	84.265	84.46	0.16812	82.26	84.25	85.436	1.7339	-1.9106	-0.015067	1.2704	1.676
1e+12	83.235	84.526	86.464	1.709	83.91	85.039	86.842	1.5782	0.3783	0.513	0.6751	0.15029
5e+12	82.85	83.676	85.162	1.2893	84.222	85.689	88.09	2.0967	1.2045	2.0127	2.9284	0.86696
1e+13	81.951	83.081	85.291	1.9146	86.788	88.708	90.548	1.8812	4.8374	5.6271	6.7874	1.0265

# Device Test: 15.4 UJ6AIM(TFALL\_CH1\_UJ6AIM)

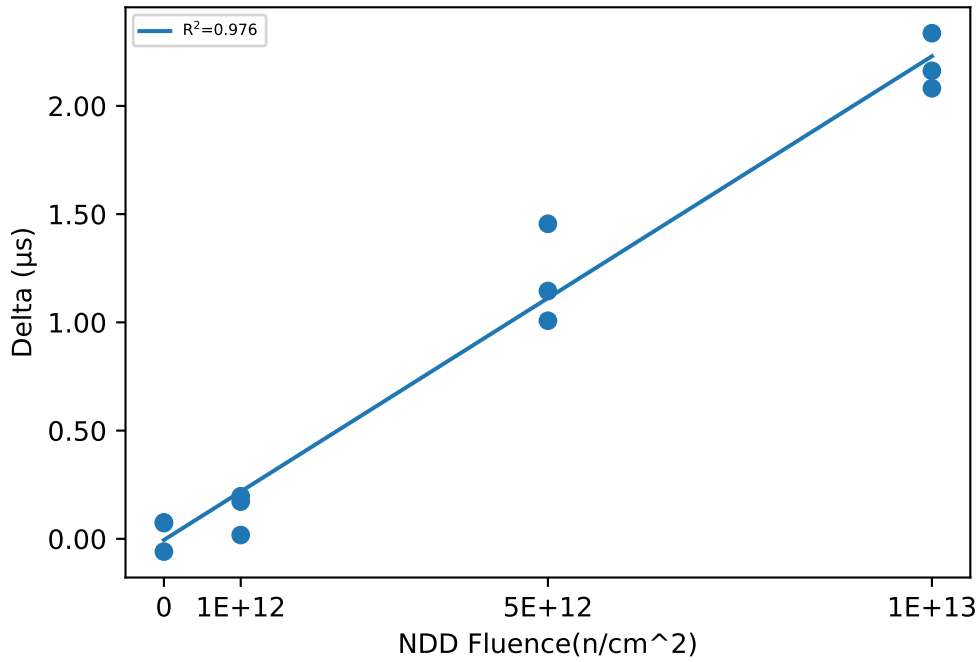
## NDD vs Result Stats



## Test Results (Lower Limit = 66.0, Upper Limit = 125.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	89.358	89.376	0.0176
2	1e+12	NDD, unbiased	88.837	89.034	0.1966
3	1e+12	NDD, unbiased	88.979	89.151	0.1719
4	5e+12	NDD, unbiased	87.615	89.07	1.4553
5	5e+12	NDD, unbiased	88.083	89.09	1.0074
6	5e+12	NDD, unbiased	88.135	89.28	1.1448
7	1e+13	NDD, unbiased	88.392	90.728	2.3359
8	1e+13	NDD, unbiased	87.466	89.548	2.0814
9	1e+13	NDD, unbiased	87.439	89.601	2.1622
10	0	correlation	89.807	89.883	0.0761
11	0	correlation	89.832	89.773	-0.059
12	0	correlation	89.108	89.181	0.0728

## NDD vs Post - Pre Exposure Delta



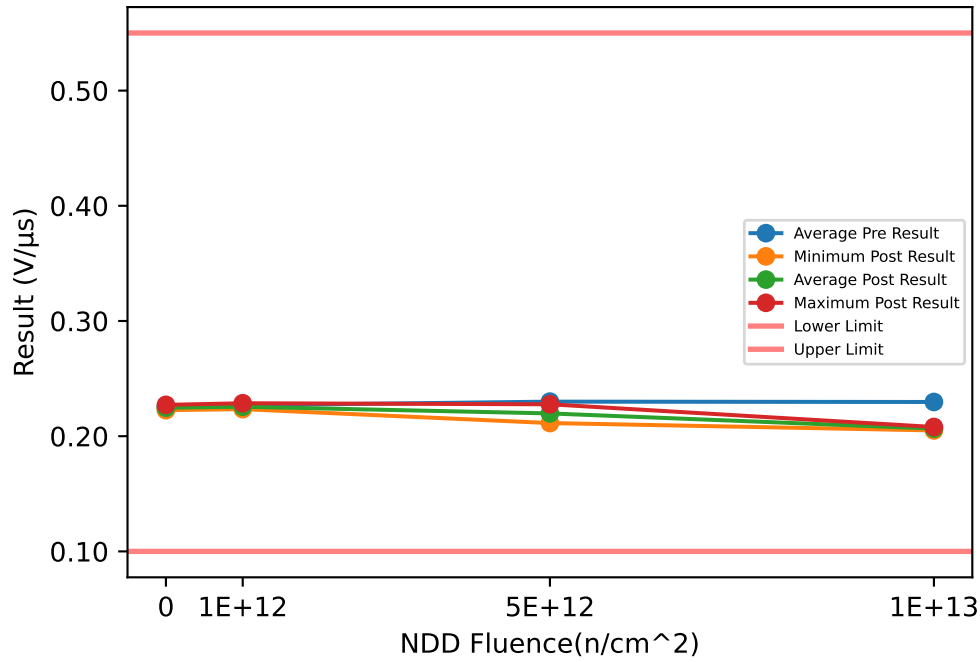
## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	89.108	89.582	89.832	0.41105	89.181	89.612	89.883	0.37786	-0.059	0.029967	0.0761	0.077065
1e+12	88.837	89.058	89.358	0.26929	89.034	89.187	89.376	0.17376	0.0176	0.1287	0.1966	0.097005
5e+12	87.615	87.944	88.135	0.28658	89.07	89.147	89.28	0.11577	1.0074	1.2025	1.4553	0.22946
1e+13	87.439	87.766	88.392	0.5428	89.548	89.959	90.728	0.66677	2.0814	2.1932	2.3359	0.13005



# Device Test: 15.5 UJPEEL(SLEWRATE\_ON\_CH1\_UJPEEL)

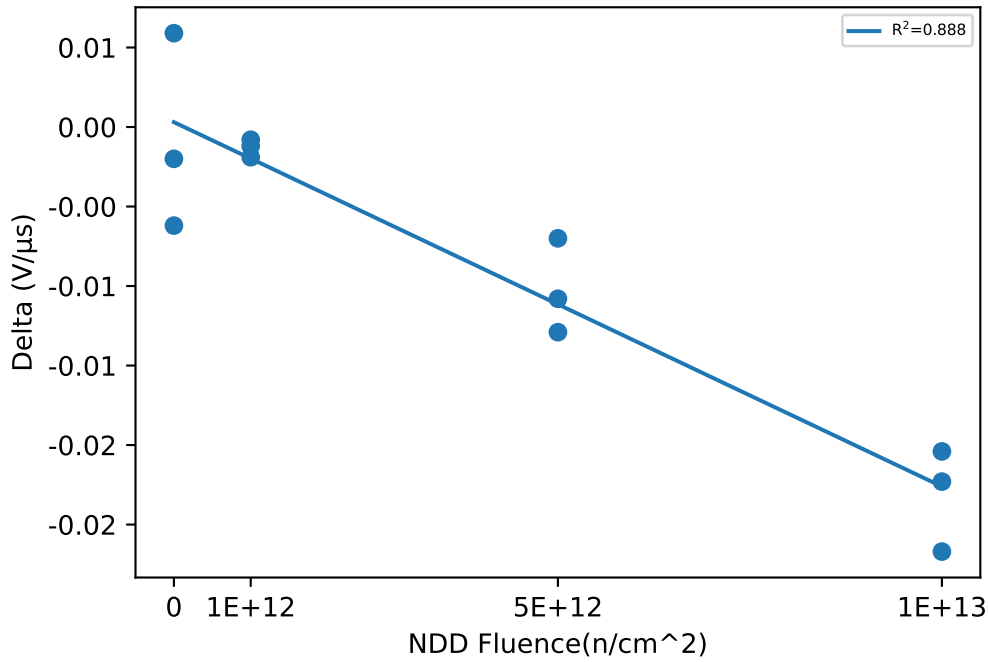
## NDD vs Result Stats



## Test Results (Lower Limit = 0.1, Upper Limit = 0.55 (V/μs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.2254	0.2235	-0.0019
2	1e+12	NDD, unbiased	0.2254	0.2246	-0.0008
3	1e+12	NDD, unbiased	0.2298	0.2286	-0.0012
4	5e+12	NDD, unbiased	0.231	0.2202	-0.0108
5	5e+12	NDD, unbiased	0.2243	0.2114	-0.0129
6	5e+12	NDD, unbiased	0.2347	0.2277	-0.007
7	1e+13	NDD, unbiased	0.2334	0.2067	-0.0267
8	1e+13	NDD, unbiased	0.2284	0.208	-0.0204
9	1e+13	NDD, unbiased	0.2273	0.205	-0.0223
10	0	correlation	0.2263	0.2243	-0.002
11	0	correlation	0.2288	0.2226	-0.0062
12	0	correlation	0.2213	0.2272	0.0059

## NDD vs Post - Pre Exposure Delta

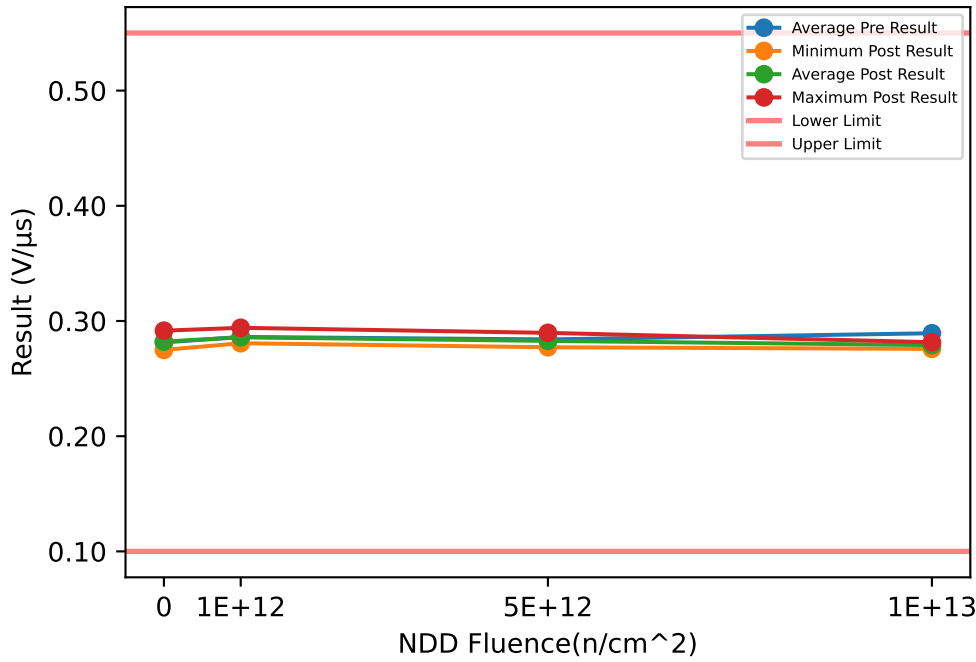


## Test Statistics (V/μs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2213	0.22547	0.2288	0.0038188	0.2226	0.2247	0.2272	0.0023259	-0.0062	-0.00076667	0.0059	0.0061436
1e+12	0.2254	0.22687	0.2298	0.0025403	0.2235	0.22557	0.2286	0.0026839	-0.0019	-0.0013	-0.0008	0.00055678
5e+12	0.2243	0.23	0.2347	0.0052716	0.2114	0.21977	0.2277	0.0081586	-0.0129	-0.010233	-0.007	0.0029905
1e+13	0.2273	0.2297	0.2334	0.0032512	0.205	0.20657	0.208	0.0015044	-0.0267	-0.023133	-0.0204	0.0032316

# Device Test: 15.6 UJD80I(SLEWRATE\_OFF\_CH1\_UJD80I)

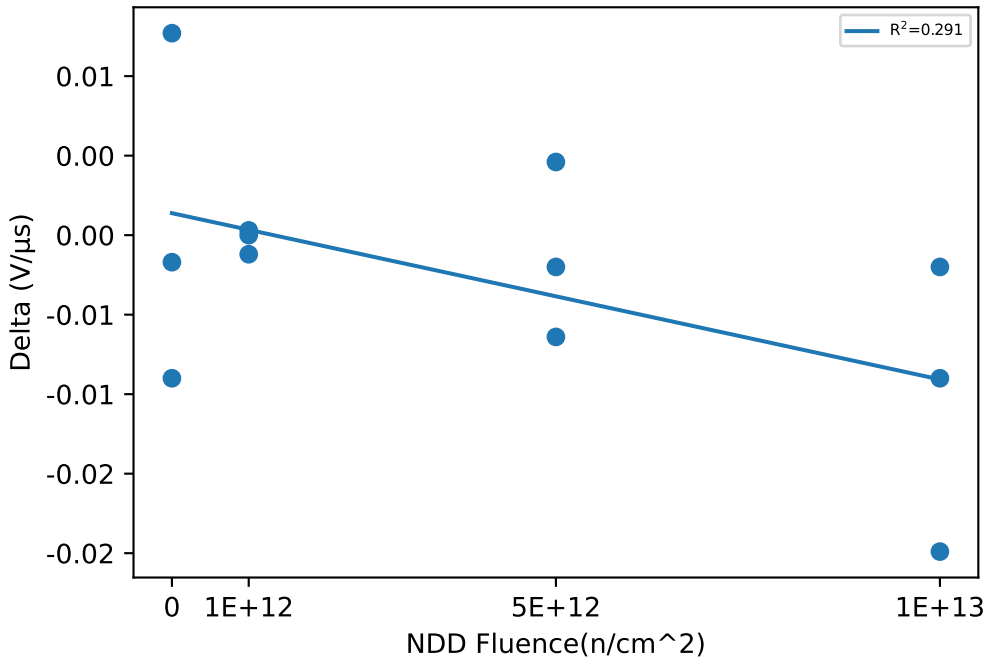
## NDD vs Result Stats



## Test Results (Lower Limit = 0.1, Upper Limit = 0.55 (V/μs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.2807	0.2807	0
2	1e+12	NDD, unbiased	0.2839	0.2827	-0.0012
3	1e+12	NDD, unbiased	0.2938	0.2941	0.0003
4	5e+12	NDD, unbiased	0.2833	0.2813	-0.002
5	5e+12	NDD, unbiased	0.2836	0.2772	-0.0064
6	5e+12	NDD, unbiased	0.2851	0.2897	0.0046
7	1e+13	NDD, unbiased	0.2957	0.2758	-0.0199
8	1e+13	NDD, unbiased	0.2836	0.2816	-0.002
9	1e+13	NDD, unbiased	0.2888	0.2798	-0.009
10	0	correlation	0.2766	0.2749	-0.0017
11	0	correlation	0.2888	0.2798	-0.009
12	0	correlation	0.2789	0.2916	0.0127

## NDD vs Post - Pre Exposure Delta

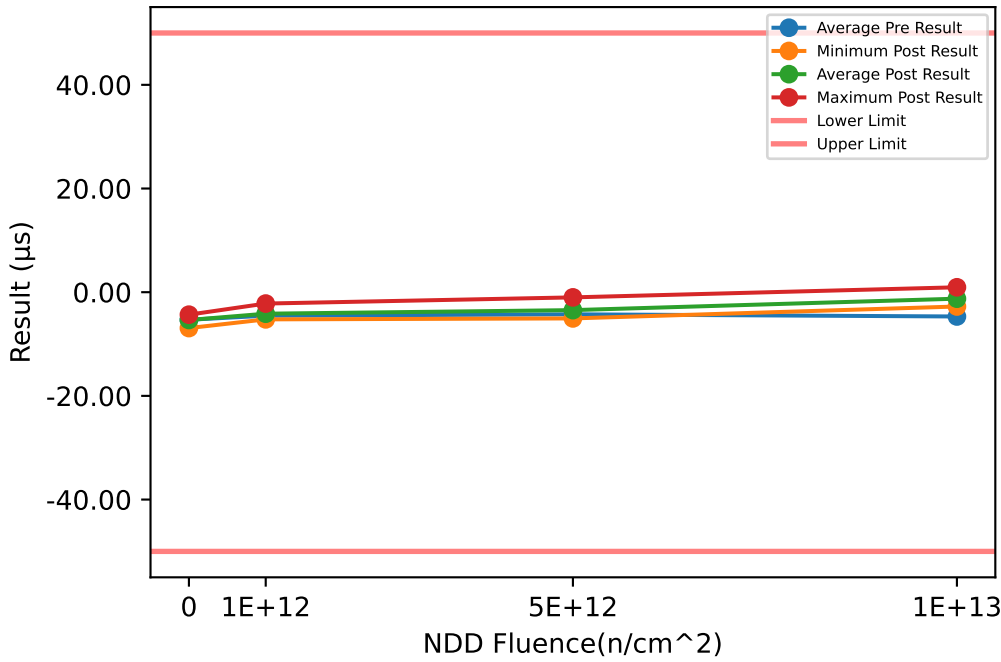


## Test Statistics (V/μs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2766	0.28143	0.2888	0.0064825	0.2749	0.2821	0.2916	0.0085843	-0.009	0.00066667	0.0127	0.011042
1e+12	0.2807	0.28613	0.2938	0.0068296	0.2807	0.28583	0.2941	0.0072286	-0.0012	-0.0003	0.0003	0.00079373
5e+12	0.2833	0.284	0.2851	0.00096437	0.2772	0.28273	0.2897	0.0063721	-0.0064	-0.0012667	0.0046	0.0055365
1e+13	0.2836	0.28937	0.2957	0.0060699	0.2758	0.27907	0.2816	0.0029687	-0.0199	-0.0103	-0.002	0.0090205

# Device Test: 15.7 UJHGWM(TMATCH\_CH1\_UJHGWM)

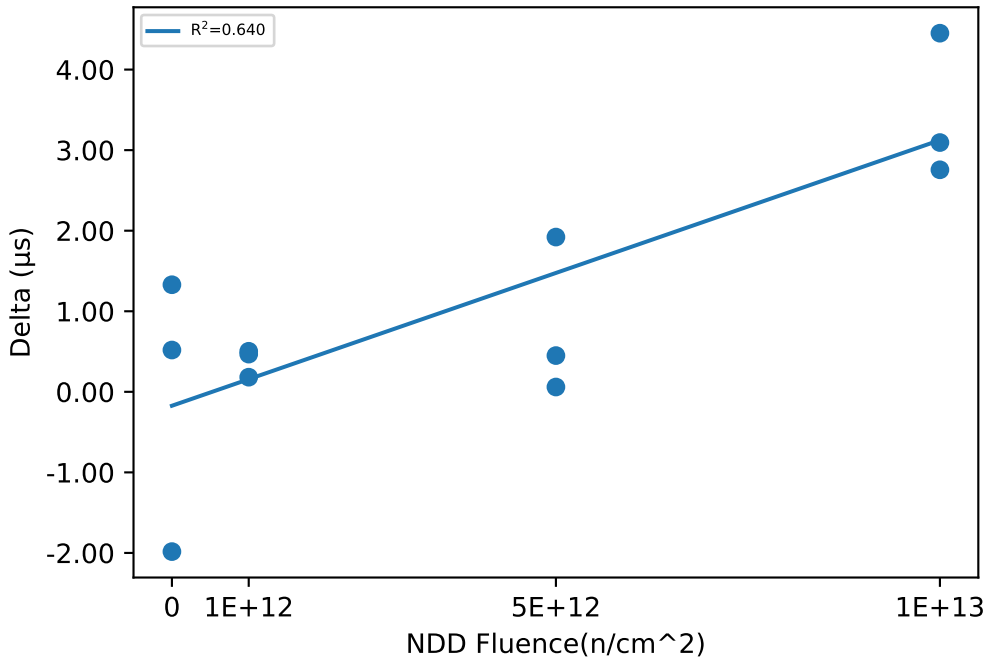
## NDD vs Result Stats



## Test Results (Lower Limit = -50.0, Upper Limit = 50.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-5.4799	-5.0118	0.4681
2	1e+12	NDD, unbiased	-2.3732	-2.1915	0.1817
3	1e+12	NDD, unbiased	-5.7443	-5.241	0.5033
4	5e+12	NDD, unbiased	-4.7649	-4.315	0.4499
5	5e+12	NDD, unbiased	-2.9211	-1.0001	1.921
6	5e+12	NDD, unbiased	-5.1182	-5.0585	0.0597
7	1e+13	NDD, unbiased	-6.3921	-1.9405	4.4516
8	1e+13	NDD, unbiased	-5.5156	-2.7595	2.7561
9	1e+13	NDD, unbiased	-2.1473	0.947	3.0943
10	0	correlation	-5.3478	-4.8289	0.5189
11	0	correlation	-5.6658	-4.3365	1.3293
12	0	correlation	-4.9368	-6.9201	-1.9833

## NDD vs Post - Pre Exposure Delta

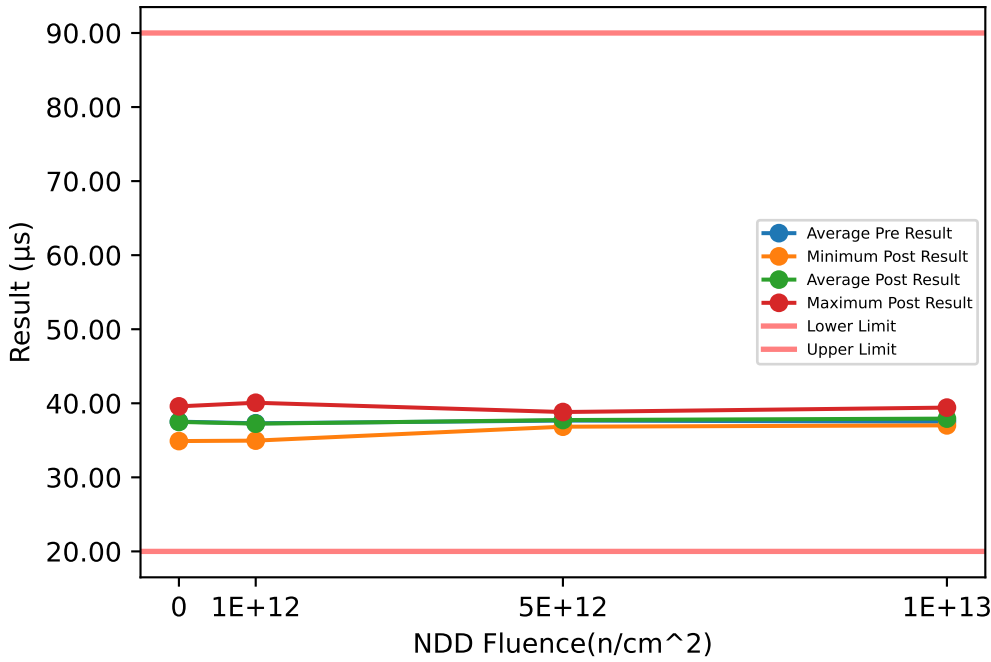


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-5.6658	-5.3168	-4.9368	0.36549	-6.9201	-5.3618	-4.3365	1.3718	-1.9833	-0.045033	1.3293	1.7268
1e+12	-5.7443	-4.5325	-2.3732	1.8746	-5.241	-4.1481	-2.1915	1.6983	0.1817	0.38437	0.5033	0.17639
5e+12	-5.1182	-4.2681	-2.9211	1.1798	-5.0585	-3.4579	-1.0001	2.1607	0.0597	0.8102	1.921	0.98157
1e+13	-6.3921	-4.685	-2.1473	2.241	-2.7595	-1.251	0.947	1.9471	2.7561	3.434	4.4516	0.89734

# Device Test: 15.8 UJ33GQ(TON\_DELAY\_CH2\_UJ33GQ)

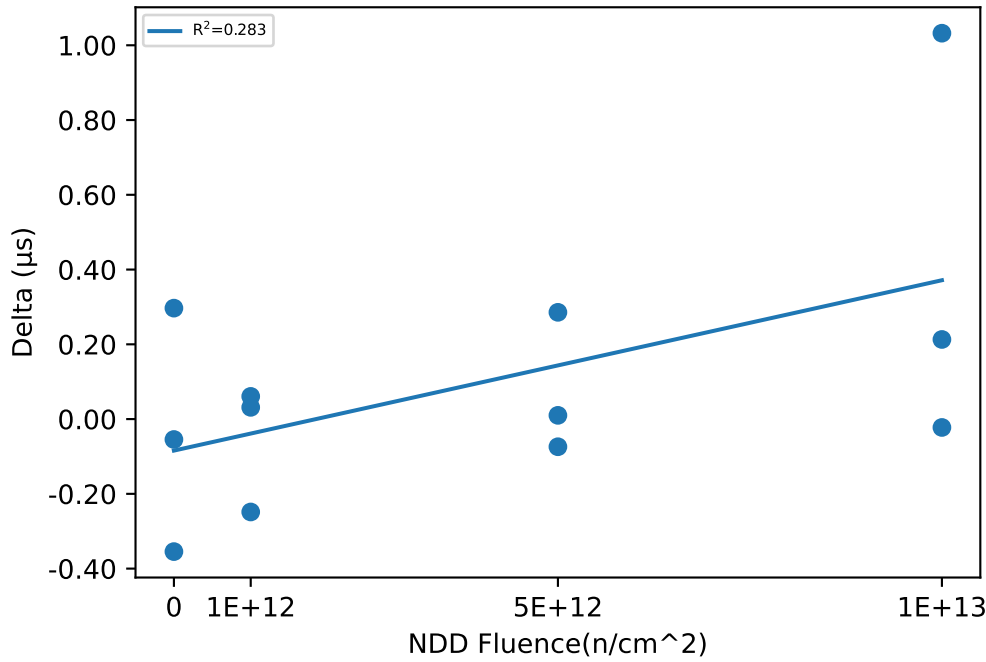
## NDD vs Result Stats



## Test Results (Lower Limit = 20.0, Upper Limit = 90.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	34.926	34.957	0.0314
2	1e+12	NDD, unbiased	36.649	36.71	0.0607
3	1e+12	NDD, unbiased	40.32	40.071	-0.2485
4	5e+12	NDD, unbiased	37.547	37.557	0.01
5	5e+12	NDD, unbiased	38.533	38.819	0.2856
6	5e+12	NDD, unbiased	36.912	36.838	-0.074
7	1e+13	NDD, unbiased	36.325	37.357	1.0323
8	1e+13	NDD, unbiased	36.805	37.018	0.213
9	1e+13	NDD, unbiased	39.438	39.416	-0.0224
10	0	correlation	39.288	39.585	0.2968
11	0	correlation	38.025	37.971	-0.0546
12	0	correlation	35.253	34.898	-0.3545

## NDD vs Post - Pre Exposure Delta

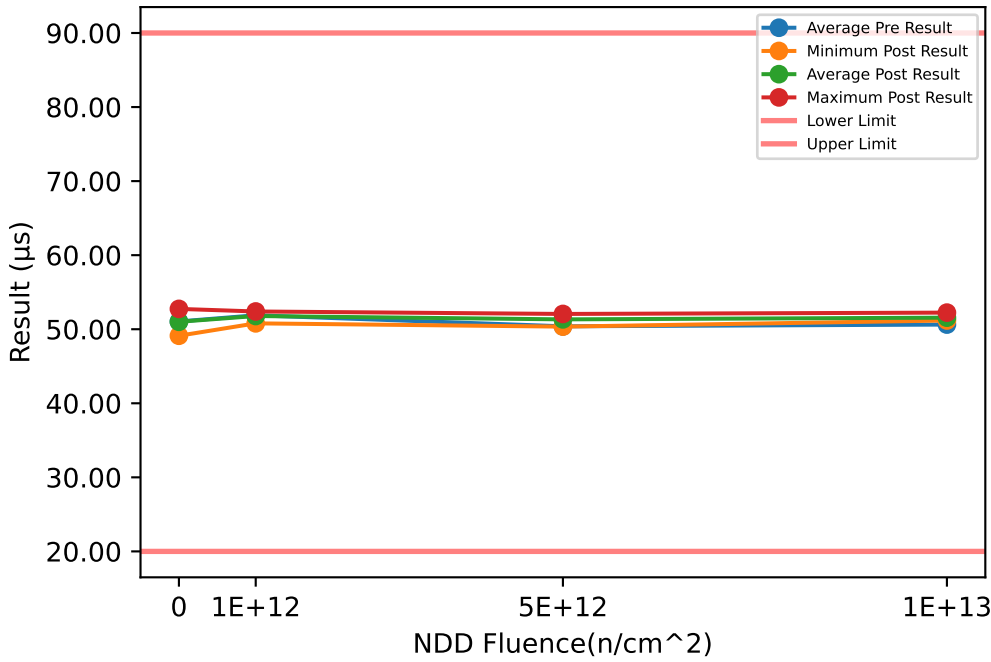


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	35.253	37.522	39.288	2.0643	34.898	37.484	39.585	2.3809	-0.3545	-0.037433	0.2968	0.32599
1e+12	34.926	37.298	40.32	2.7549	34.957	37.246	40.071	2.5988	-0.2485	-0.052133	0.0607	0.17069
5e+12	36.912	37.664	38.533	0.81673	36.838	37.738	38.819	1.0025	-0.074	0.073867	0.2856	0.18812
1e+13	36.325	37.523	39.438	1.6761	37.018	37.93	39.416	1.2976	-0.0224	0.40763	1.0323	0.55363

# Device Test: 15.9 UJZB3P(TOFF\_DELAY\_CH2\_UJZB3P)

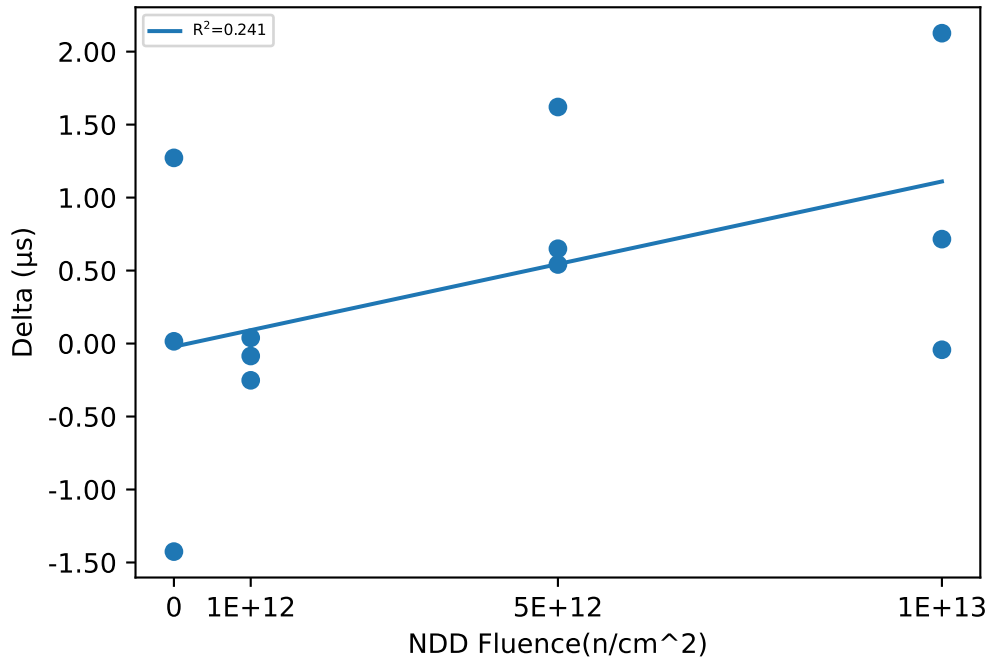
## NDD vs Result Stats



## Test Results (Lower Limit = 20.0, Upper Limit = 90.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	50.878	50.793	-0.0854
2	1e+12	NDD, unbiased	52.649	52.397	-0.2519
3	1e+12	NDD, unbiased	52.122	52.161	0.0392
4	5e+12	NDD, unbiased	49.7	50.35	0.6496
5	5e+12	NDD, unbiased	49.959	51.58	1.6206
6	5e+12	NDD, unbiased	51.522	52.063	0.5416
7	1e+13	NDD, unbiased	51.221	51.179	-0.0426
8	1e+13	NDD, unbiased	50.116	52.242	2.1263
9	1e+13	NDD, unbiased	50.547	51.262	0.7154
10	0	correlation	50.544	49.119	-1.4254
11	0	correlation	52.73	52.746	0.0153
12	0	correlation	49.873	51.145	1.2721

## NDD vs Post - Pre Exposure Delta

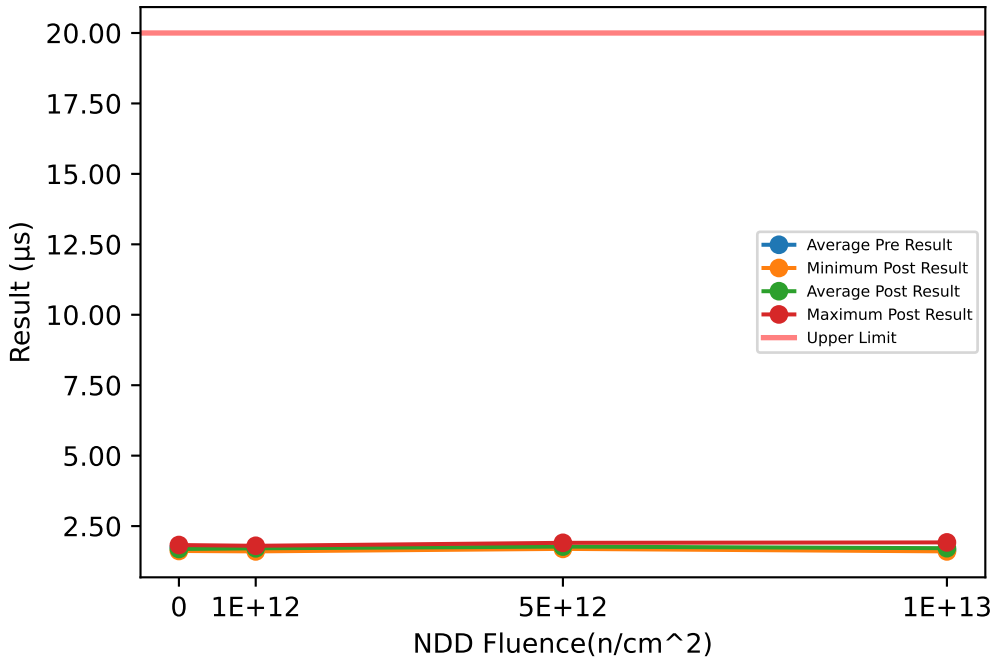


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	49.873	51.049	52.73	1.4942	49.119	51.003	52.746	1.8177	-1.4254	-0.046	1.2721	1.3498
1e+12	50.878	51.883	52.649	0.90923	50.793	51.784	52.397	0.8662	-0.2519	-0.099367	0.0392	0.14605
5e+12	49.7	50.394	51.522	0.98538	50.35	51.331	52.063	0.88346	0.5416	0.93727	1.6206	0.59424
1e+13	50.116	50.628	51.221	0.5571	51.179	51.561	52.242	0.59142	-0.0426	0.93303	2.1263	1.1007

# Device Test: 16.1 UJY13V(TCS\_OFF1\_UJY13V)

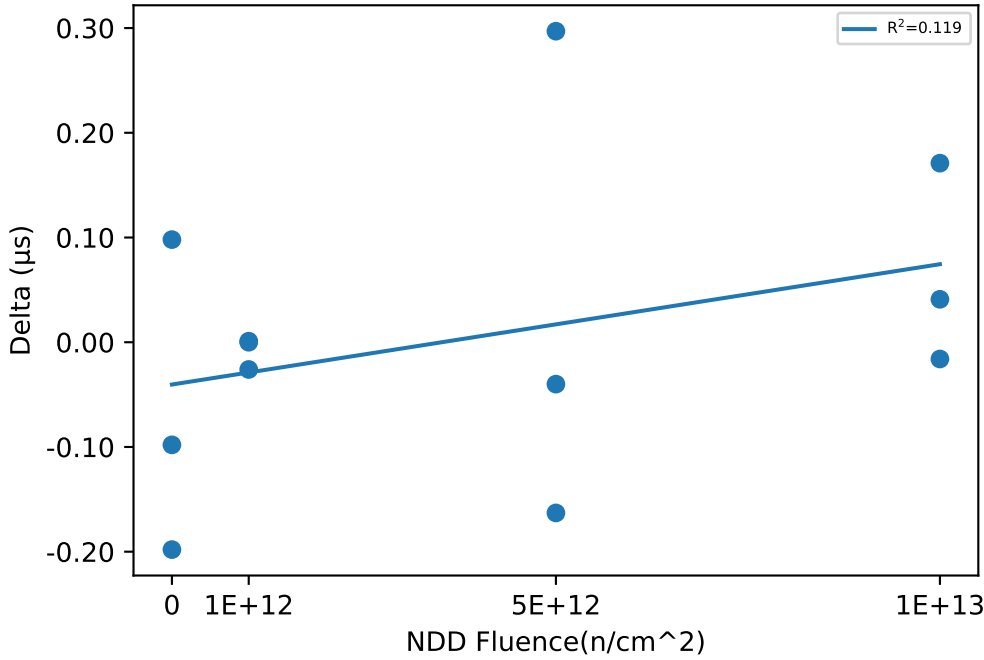
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.628	1.602	-0.026
2	1e+12	NDD, unbiased	1.801	1.801	0
3	1e+12	NDD, unbiased	1.729	1.73	0.001
4	5e+12	NDD, unbiased	1.761	1.721	-0.04
5	5e+12	NDD, unbiased	1.609	1.906	0.297
6	5e+12	NDD, unbiased	1.854	1.691	-0.163
7	1e+13	NDD, unbiased	1.64	1.624	-0.016
8	1e+13	NDD, unbiased	1.75	1.921	0.171
9	1e+13	NDD, unbiased	1.561	1.602	0.041
10	0	correlation	1.815	1.617	-0.198
11	0	correlation	1.73	1.828	0.098
12	0	correlation	1.716	1.618	-0.098

## NDD vs Post - Pre Exposure Delta

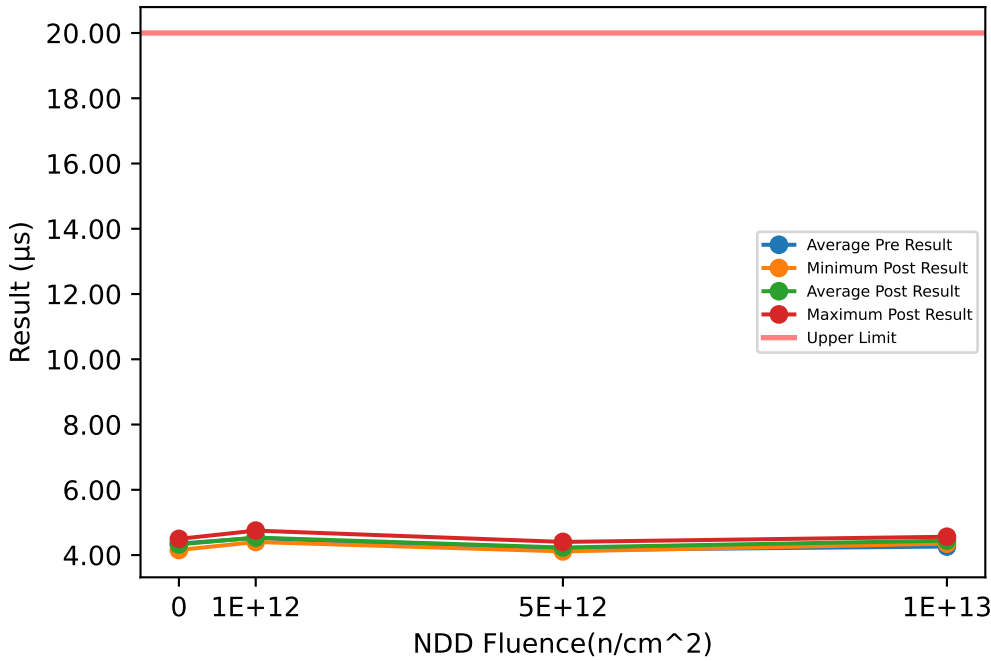


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.716	1.7537	1.815	0.053575	1.617	1.6877	1.828	0.12153	-0.198	-0.066	0.098	0.15057
1e+12	1.628	1.7193	1.801	0.086904	1.602	1.711	1.801	0.10085	-0.026	-0.0083333	0.001	0.015308
5e+12	1.609	1.7413	1.854	0.12368	1.691	1.7727	1.906	0.11644	-0.163	0.031333	0.297	0.23815
1e+13	1.561	1.6503	1.75	0.094923	1.602	1.7157	1.921	0.17816	-0.016	0.065333	0.171	0.095845

# Device Test: 16.2 UJXNQ0(TCS\_ON1\_UJXNQ0)

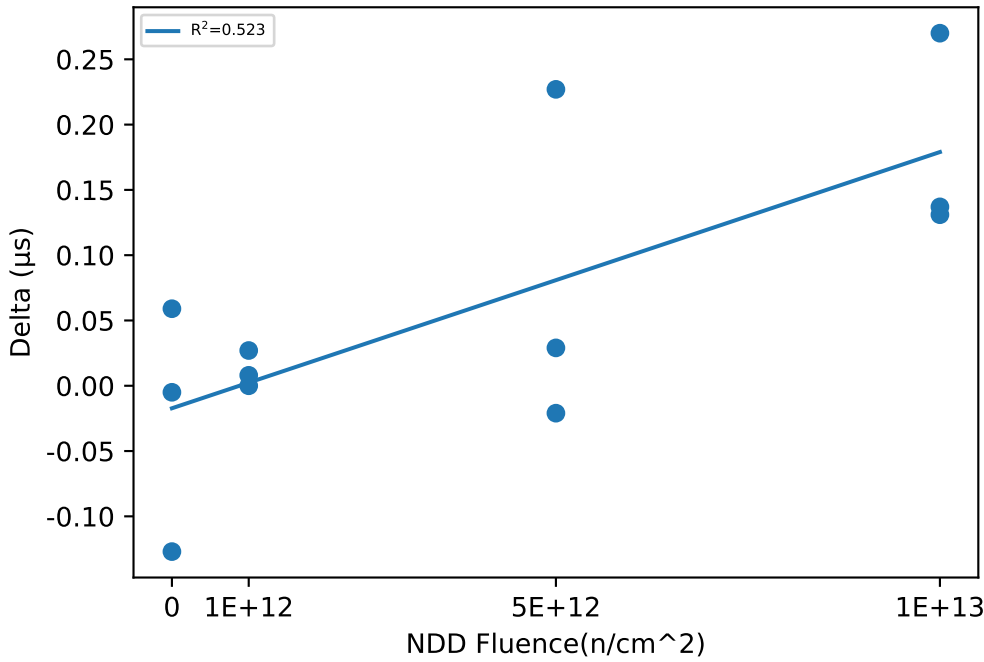
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	4.4	4.4	0
2	1e+12	NDD, unbiased	4.722	4.749	0.027
3	1e+12	NDD, unbiased	4.449	4.457	0.008
4	5e+12	NDD, unbiased	4.083	4.112	0.029
5	5e+12	NDD, unbiased	4.175	4.402	0.227
6	5e+12	NDD, unbiased	4.201	4.18	-0.021
7	1e+13	NDD, unbiased	4.213	4.35	0.137
8	1e+13	NDD, unbiased	4.291	4.561	0.27
9	1e+13	NDD, unbiased	4.28	4.411	0.131
10	0	correlation	4.281	4.154	-0.127
11	0	correlation	4.436	4.495	0.059
12	0	correlation	4.336	4.331	-0.005

## NDD vs Post - Pre Exposure Delta

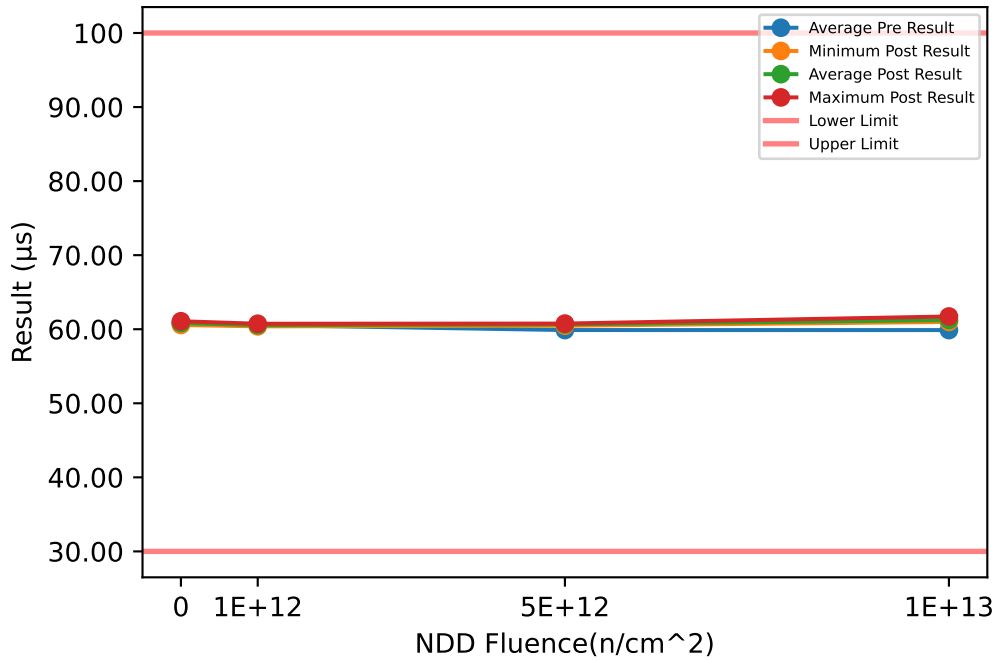


## Test Statistics (µs)

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	4.281	4.351	4.436	0.078581	4.154	4.3267	4.495	0.17054	-0.127	-0.024333	0.059	0.094495
1e+12	4.4	4.5237	4.722	0.1735	4.4	4.5353	4.749	0.18722	0	0.011667	0.027	0.013868
5e+12	4.083	4.153	4.201	0.062	4.112	4.2313	4.402	0.15166	-0.021	0.078333	0.227	0.13115
1e+13	4.213	4.2613	4.291	0.042218	4.35	4.4407	4.561	0.10858	0.131	0.17933	0.27	0.078577

# Device Test: 16.3 UJRKCS(TCS\_OFF2\_UJRKCS)

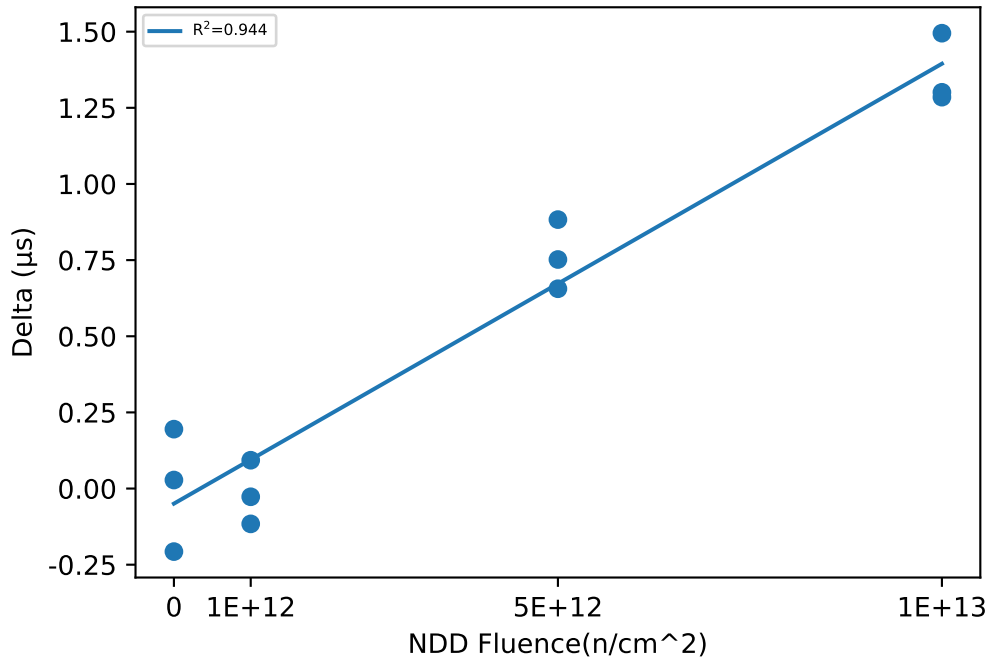
## NDD vs Result Stats



## Test Results (Lower Limit = 30.0, Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	60.766	60.739	-0.027
2	1e+12	NDD, unbiased	60.294	60.387	0.093
3	1e+12	NDD, unbiased	60.645	60.529	-0.116
4	5e+12	NDD, unbiased	59.88	60.763	0.883
5	5e+12	NDD, unbiased	59.721	60.473	0.752
6	5e+12	NDD, unbiased	60.062	60.718	0.656
7	1e+13	NDD, unbiased	60.421	61.722	1.301
8	1e+13	NDD, unbiased	59.742	61.027	1.285
9	1e+13	NDD, unbiased	59.491	60.986	1.495
10	0	correlation	60.78	60.573	-0.207
11	0	correlation	60.883	61.078	0.195
12	0	correlation	60.837	60.865	0.028

## NDD vs Post - Pre Exposure Delta



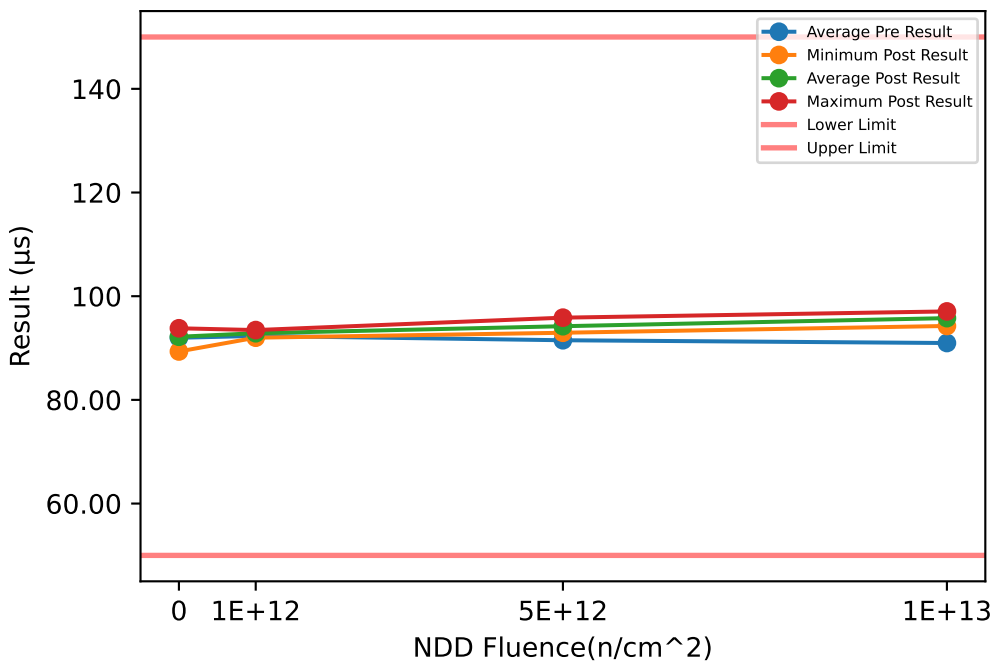
## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	60.78	60.833	60.883	0.051598	60.573	60.839	61.078	0.25353	-0.207	0.0053333	0.195	0.20196
1e+12	60.294	60.568	60.766	0.24516	60.387	60.552	60.739	0.17709	-0.116	-0.016667	0.093	0.10488
5e+12	59.721	59.888	60.062	0.17063	60.473	60.651	60.763	0.15607	0.656	0.76367	0.883	0.11395
1e+13	59.491	59.885	60.421	0.48113	60.986	61.245	61.722	0.4136	1.285	1.3603	1.495	0.1169



# Device Test: 16.4 UJJ1V5(TCS\_ON2\_UJJ1V5)

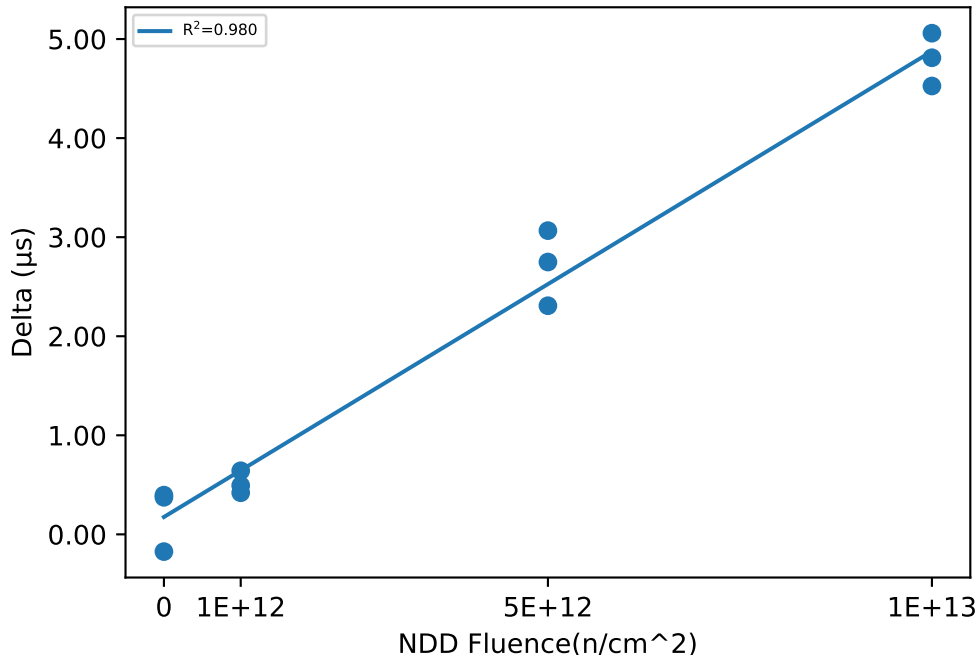
## NDD vs Result Stats



## Test Results (Lower Limit = 50.0, Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	91.502	91.995	0.493
2	1e+12	NDD, unbiased	92.683	93.103	0.42
3	1e+12	NDD, unbiased	92.824	93.466	0.642
4	5e+12	NDD, unbiased	90.639	92.947	2.308
5	5e+12	NDD, unbiased	92.793	95.859	3.066
6	5e+12	NDD, unbiased	91.075	93.824	2.749
7	1e+13	NDD, unbiased	91.174	95.985	4.811
8	1e+13	NDD, unbiased	89.732	94.258	4.526
9	1e+13	NDD, unbiased	92.005	97.064	5.059
10	0	correlation	93.439	93.813	0.374
11	0	correlation	93.558	93.384	-0.174
12	0	correlation	88.941	89.337	0.396

## NDD vs Post - Pre Exposure Delta

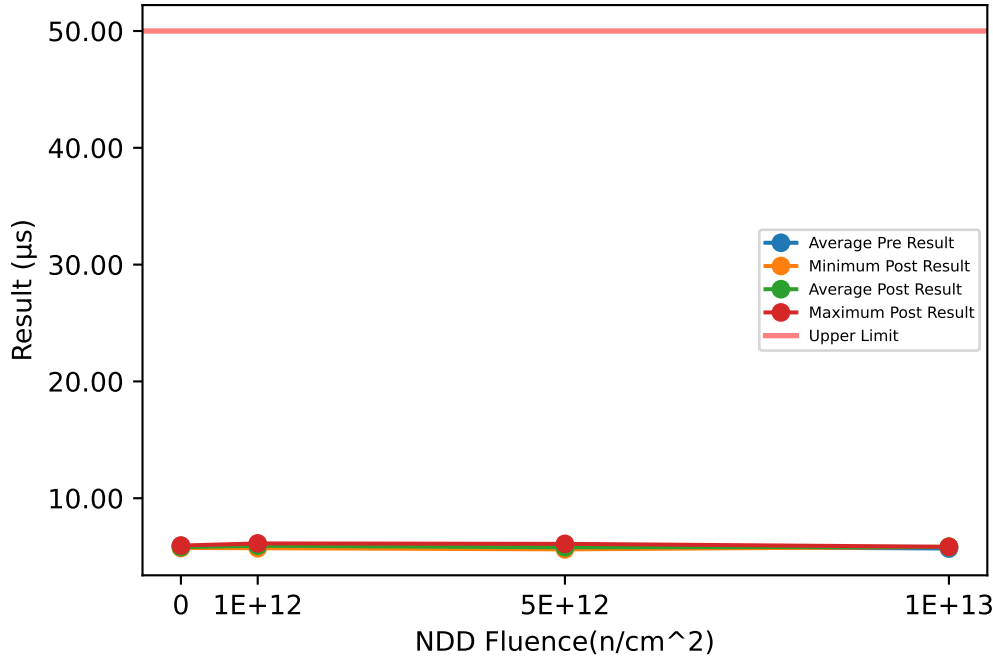


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	88.941	91.979	93.558	2.6319	89.337	92.178	93.813	2.4697	-0.174	0.19867	0.396	0.32293
1e+12	91.502	92.336	92.824	0.72599	91.995	92.855	93.466	0.7663	0.42	0.51833	0.642	0.11315
5e+12	90.639	91.502	92.793	1.1388	92.947	94.21	95.859	1.4939	2.308	2.7077	3.066	0.38069
1e+13	89.732	90.97	92.005	1.1501	94.258	95.769	97.064	1.4154	4.526	4.7987	5.059	0.26671

# Device Test: 16.5 UJSI7E(TMUX\_UJSI7E)

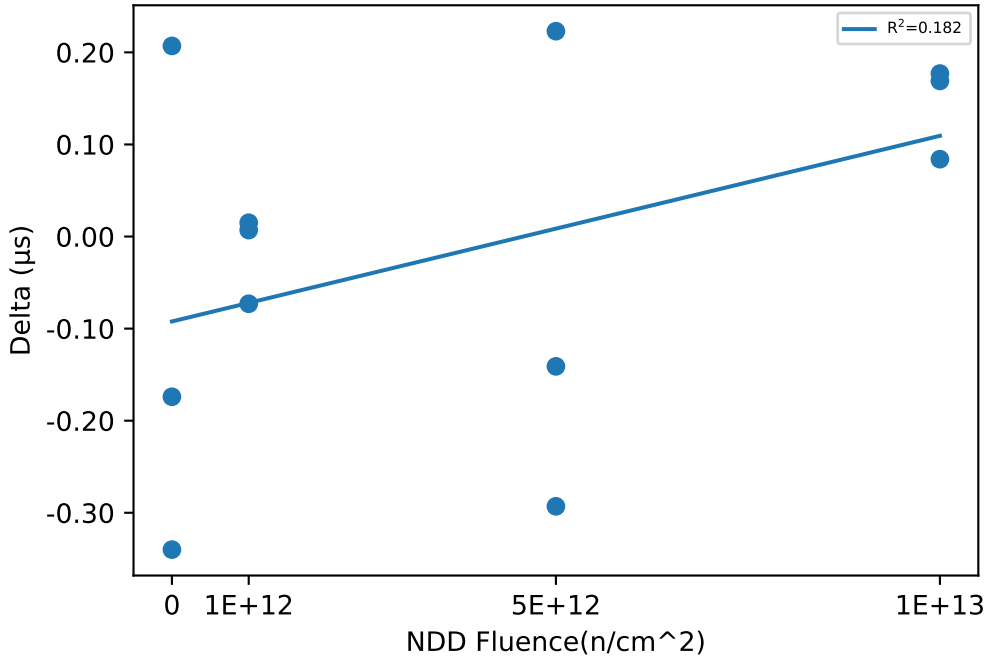
## NDD vs Result Stats



## Test Results (Upper Limit = 50.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	5.92	5.935	0.015
2	1e+12	NDD, unbiased	6.124	6.131	0.007
3	1e+12	NDD, unbiased	5.793	5.72	-0.073
4	5e+12	NDD, unbiased	5.826	5.685	-0.141
5	5e+12	NDD, unbiased	5.871	6.094	0.223
6	5e+12	NDD, unbiased	5.912	5.619	-0.293
7	1e+13	NDD, unbiased	5.667	5.836	0.169
8	1e+13	NDD, unbiased	5.665	5.842	0.177
9	1e+13	NDD, unbiased	5.75	5.834	0.084
10	0	correlation	6.094	5.754	-0.34
11	0	correlation	5.739	5.946	0.207
12	0	correlation	5.912	5.738	-0.174

## NDD vs Post - Pre Exposure Delta

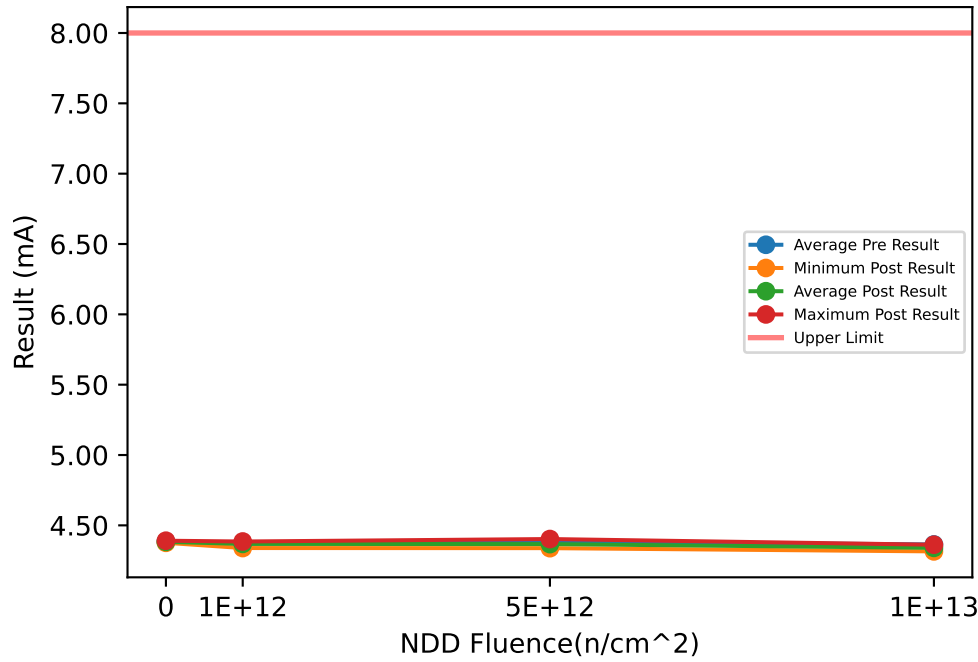


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.739	5.915	6.094	0.17752	5.738	5.8127	5.946	0.11575	-0.34	-0.10233	0.207	0.28045
1e+12	5.793	5.9457	6.124	0.16699	5.72	5.9287	6.131	0.20557	-0.073	-0.017	0.015	0.048662
5e+12	5.826	5.8697	5.912	0.043016	5.619	5.7993	6.094	0.25731	-0.293	-0.070333	0.223	0.26516
1e+13	5.665	5.694	5.75	0.048508	5.834	5.8373	5.842	0.0041633	0.084	0.14333	0.177	0.05154

# Device Test: 5.1 UJTKLS(Iop\_5V\_UJTKLS)

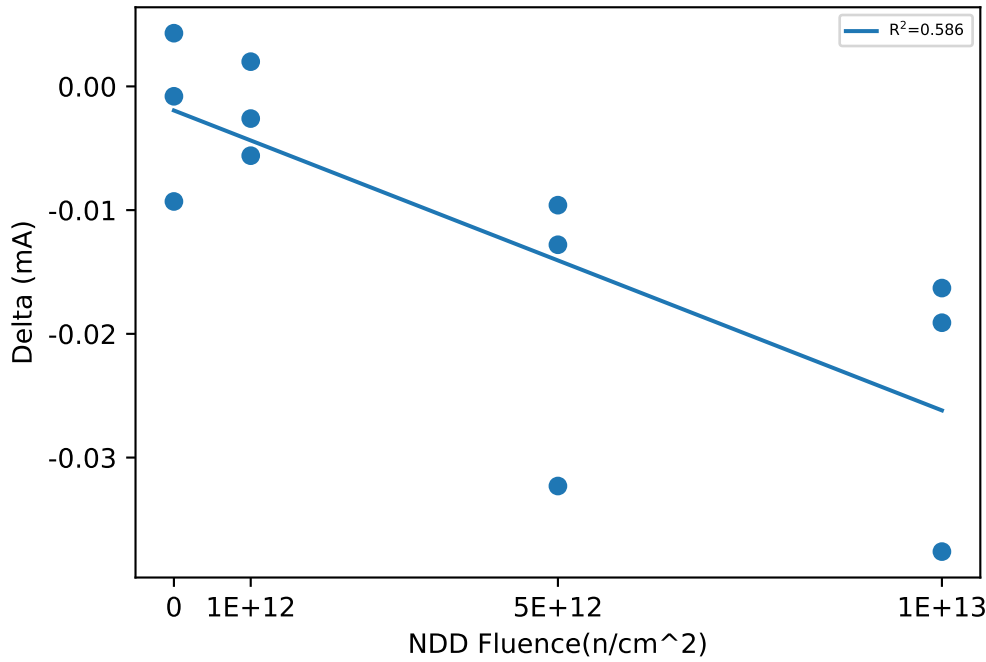
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	4.3833	4.3853	0.002
2	1e+12	NDD, unbiased	4.383	4.3804	-0.0026
3	1e+12	NDD, unbiased	4.3443	4.3387	-0.0056
4	5e+12	NDD, unbiased	4.3507	4.3379	-0.0128
5	5e+12	NDD, unbiased	4.3917	4.3594	-0.0323
6	5e+12	NDD, unbiased	4.4124	4.4028	-0.0096
7	1e+13	NDD, unbiased	4.3786	4.3623	-0.0163
8	1e+13	NDD, unbiased	4.3804	4.3428	-0.0376
9	1e+13	NDD, unbiased	4.334	4.3149	-0.0191
10	0	correlation	4.3771	4.3814	0.0043
11	0	correlation	4.3917	4.3909	-0.0008
12	0	correlation	4.3852	4.3759	-0.0093

## NDD vs Post - Pre Exposure Delta

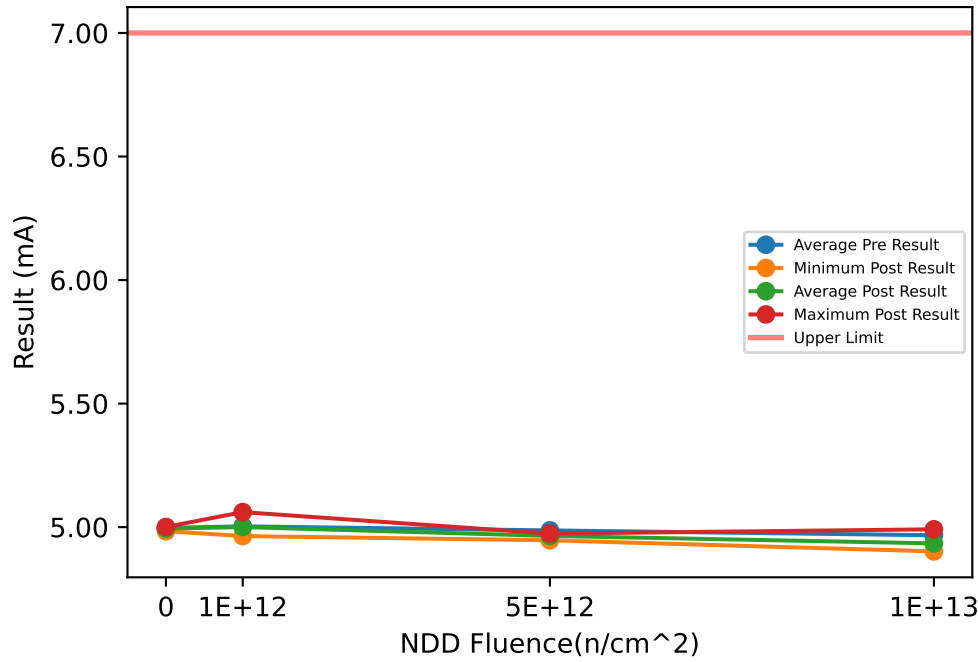


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.3771	4.3847	4.3917	0.0073146	4.3759	4.3827	4.3909	0.0075884	-0.0093	-0.0019333	0.0043	0.0068705
1e+12	4.3443	4.3702	4.3833	0.022431	4.3387	4.3681	4.3853	0.025607	-0.0056	-0.0020667	0.002	0.003828
5e+12	4.3507	4.3849	4.4124	0.031402	4.3379	4.3667	4.4028	0.03306	-0.0323	-0.018233	-0.0096	0.012287
1e+13	4.334	4.3643	4.3804	0.026285	4.3149	4.34	4.3623	0.023824	-0.0376	-0.024333	-0.0163	0.011574

# Device Test: 5.10 UJKFAE(IQ\_12V\_UJKFAE)

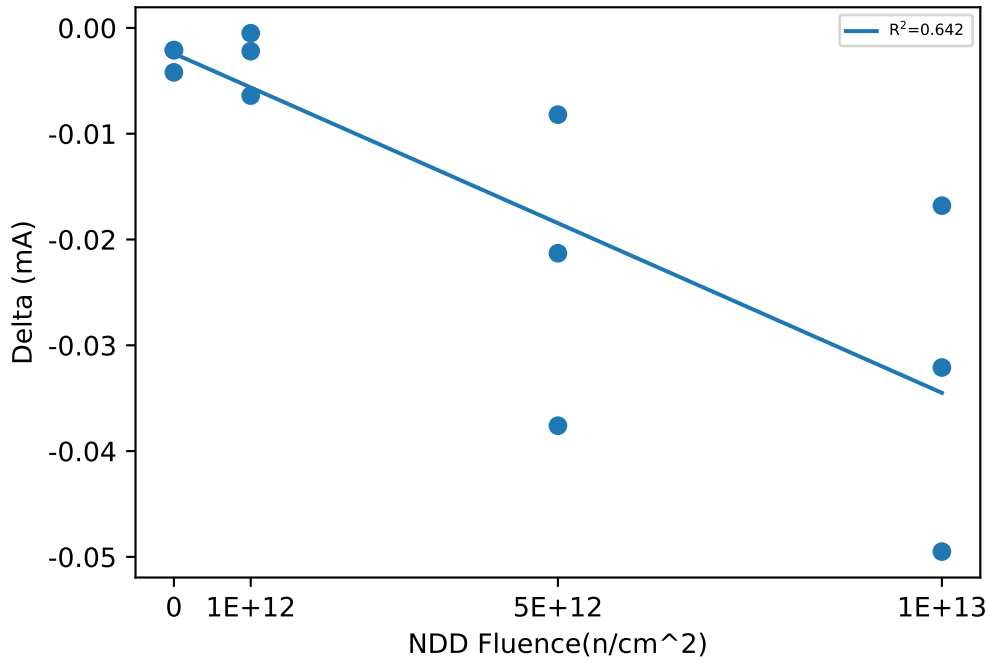
## NDD vs Result Stats



## Test Results (Upper Limit = 7.0 (mA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	4.9781	4.9759	-0.0022
2	1e+12	NDD, unbiased	5.0612	5.0607	-0.0005
3	1e+12	NDD, unbiased	4.9701	4.9637	-0.0064
4	5e+12	NDD, unbiased	4.9937	4.9724	-0.0213
5	5e+12	NDD, unbiased	4.9843	4.9467	-0.0376
6	5e+12	NDD, unbiased	4.982	4.9738	-0.0082
7	1e+13	NDD, unbiased	5.0232	4.9911	-0.0321
8	1e+13	NDD, unbiased	4.9512	4.9017	-0.0495
9	1e+13	NDD, unbiased	4.9265	4.9097	-0.0168
10	0	correlation	4.9879	4.9837	-0.0042
11	0	correlation	5.0027	5.0006	-0.0021
12	0	correlation	4.9997	4.9976	-0.0021

## NDD vs Post - Pre Exposure Delta

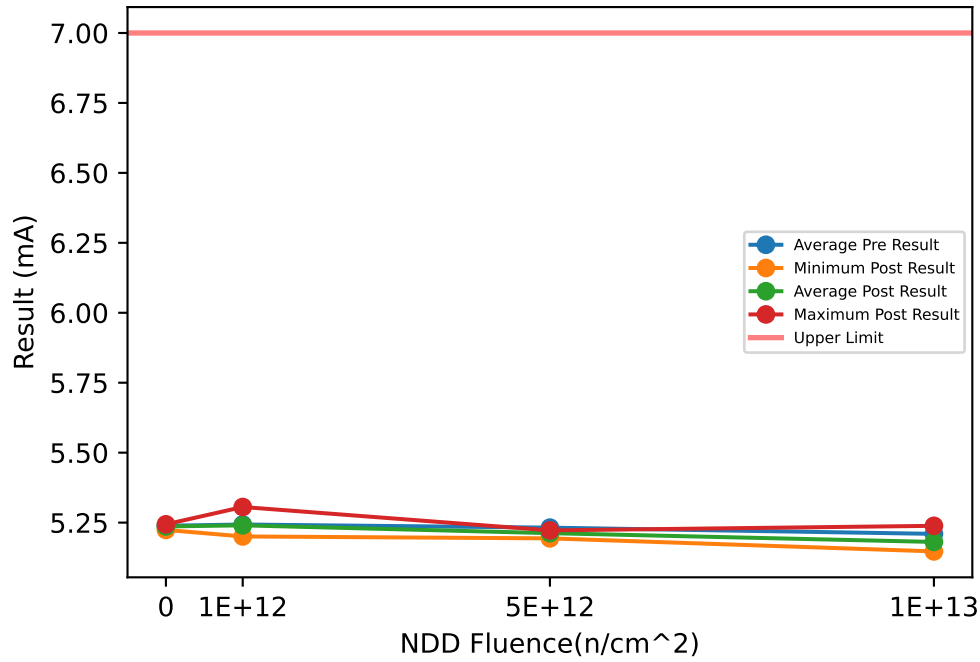


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9879	4.9968	5.0027	0.0078239	4.9837	4.994	5.0006	0.0090168	-0.0042	-0.0028	-0.0021	0.0012124
1e+12	4.9701	5.0031	5.0612	0.050446	4.9637	5.0001	5.0607	0.052834	-0.0064	-0.0030333	-0.0005	0.003037
5e+12	4.982	4.9867	4.9937	0.0061987	4.9467	4.9643	4.9738	0.015258	-0.0376	-0.022367	-0.0082	0.014729
1e+13	4.9265	4.967	5.0232	0.050241	4.9017	4.9342	4.9911	0.049468	-0.0495	-0.0328	-0.0168	0.016361

# Device Test: 5.11 UJKFAE(IQ\_28V\_UJKFAE)

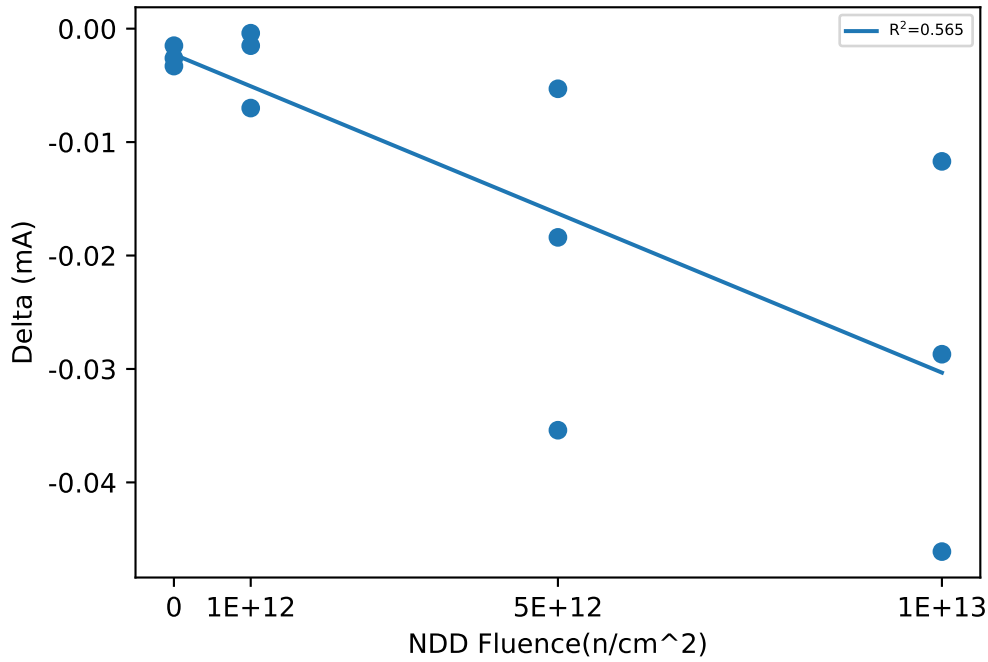
## NDD vs Result Stats



## Test Results (Upper Limit = 7.0 (mA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	5.2159	5.2144	-0.0015
2	1e+12	NDD, unbiased	5.3062	5.3058	-0.0004
3	1e+12	NDD, unbiased	5.2075	5.2005	-0.007
4	5e+12	NDD, unbiased	5.2406	5.2222	-0.0184
5	5e+12	NDD, unbiased	5.2291	5.1937	-0.0354
6	5e+12	NDD, unbiased	5.2263	5.221	-0.0053
7	1e+13	NDD, unbiased	5.2672	5.2385	-0.0287
8	1e+13	NDD, unbiased	5.1932	5.1471	-0.0461
9	1e+13	NDD, unbiased	5.1689	5.1572	-0.0117
10	0	correlation	5.2272	5.2239	-0.0033
11	0	correlation	5.2465	5.2439	-0.0026
12	0	correlation	5.2426	5.2411	-0.0015

## NDD vs Post - Pre Exposure Delta

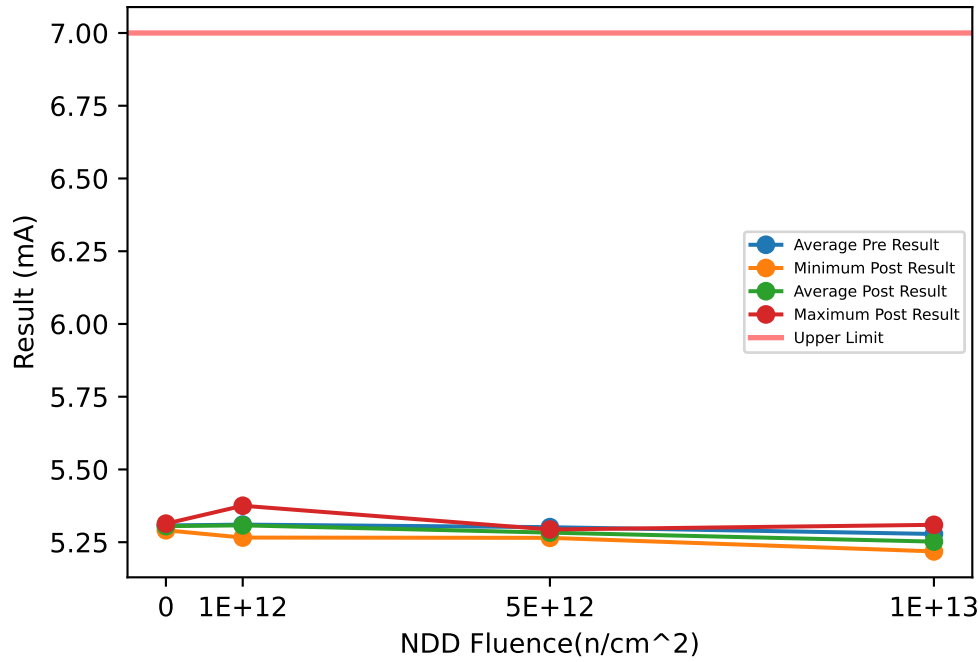


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.2272	5.2388	5.2465	0.010205	5.2239	5.2363	5.2439	0.01083	-0.0033	-0.0024667	-0.0015	0.00090738
1e+12	5.2075	5.2432	5.3062	0.054721	5.2005	5.2402	5.3058	0.057206	-0.007	-0.0029667	-0.0004	0.003536
5e+12	5.2263	5.232	5.2406	0.0075783	5.1937	5.2123	5.2222	0.016119	-0.0354	-0.0197	-0.0053	0.015092
1e+13	5.1689	5.2098	5.2672	0.051201	5.1471	5.1809	5.2385	0.050109	-0.0461	-0.028833	-0.0117	0.0172

# Device Test: 5.12 UJKFAE(IQ\_32V\_UJKFAE)

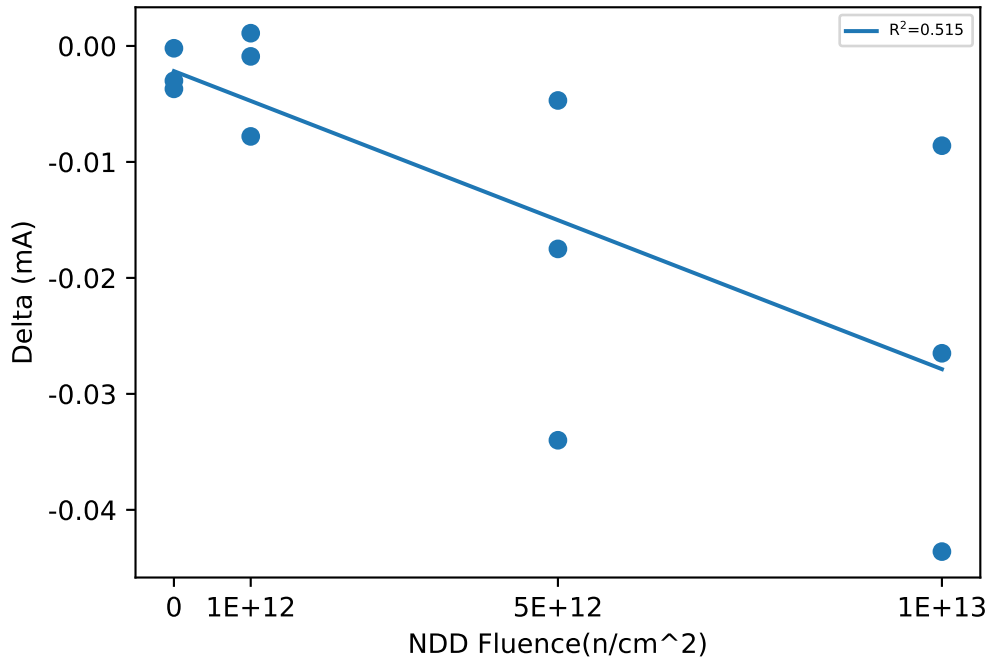
## NDD vs Result Stats



## Test Results (Upper Limit = 7.0 (mA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	5.2834	5.2825	-0.0009
2	1e+12	NDD, unbiased	5.3742	5.3753	0.0011
3	1e+12	NDD, unbiased	5.2737	5.2659	-0.0078
4	5e+12	NDD, unbiased	5.3112	5.2937	-0.0175
5	5e+12	NDD, unbiased	5.299	5.265	-0.034
6	5e+12	NDD, unbiased	5.2949	5.2902	-0.0047
7	1e+13	NDD, unbiased	5.3362	5.3097	-0.0265
8	1e+13	NDD, unbiased	5.262	5.2184	-0.0436
9	1e+13	NDD, unbiased	5.2366	5.228	-0.0086
10	0	correlation	5.2947	5.291	-0.0037
11	0	correlation	5.3167	5.3137	-0.003
12	0	correlation	5.3111	5.3109	-0.0002

## NDD vs Post - Pre Exposure Delta

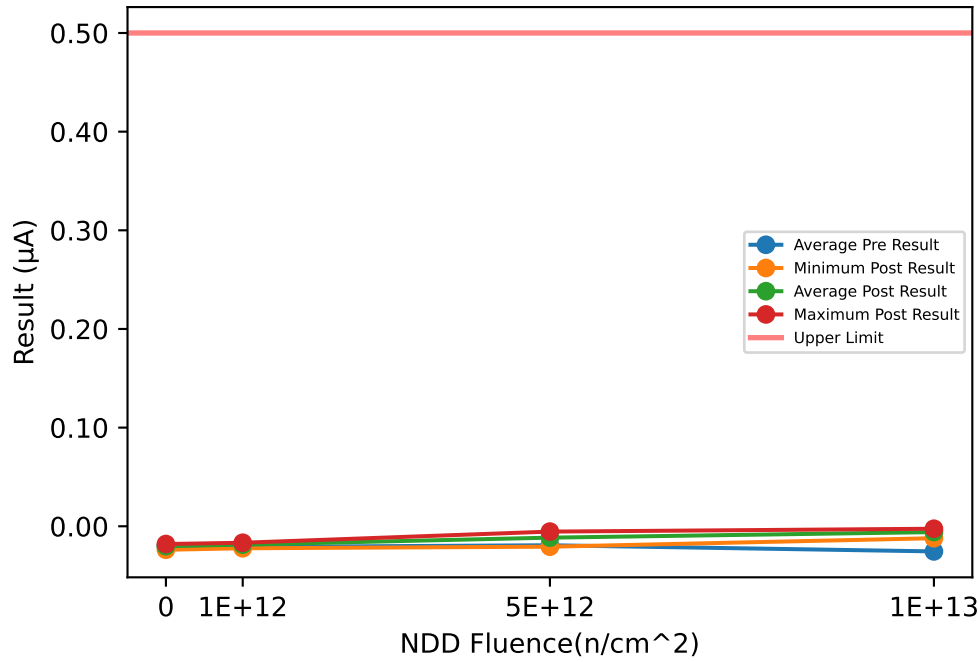


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.2947	5.3075	5.3167	0.011433	5.291	5.3052	5.3137	0.012377	-0.0037	-0.0023	-0.0002	0.001852
1e+12	5.2737	5.3104	5.3742	0.055436	5.2659	5.3079	5.3753	0.058957	-0.0078	-0.0025333	0.0011	0.0046694
5e+12	5.2949	5.3017	5.3112	0.0084788	5.265	5.283	5.2937	0.015658	-0.034	-0.018733	-0.0047	0.014689
1e+13	5.2366	5.2783	5.3362	0.051754	5.2184	5.252	5.3097	0.050171	-0.0436	-0.026233	-0.0086	0.017502

# Device Test: 5.13 UJSQ47(ISD\_5V\_UJSQ47)

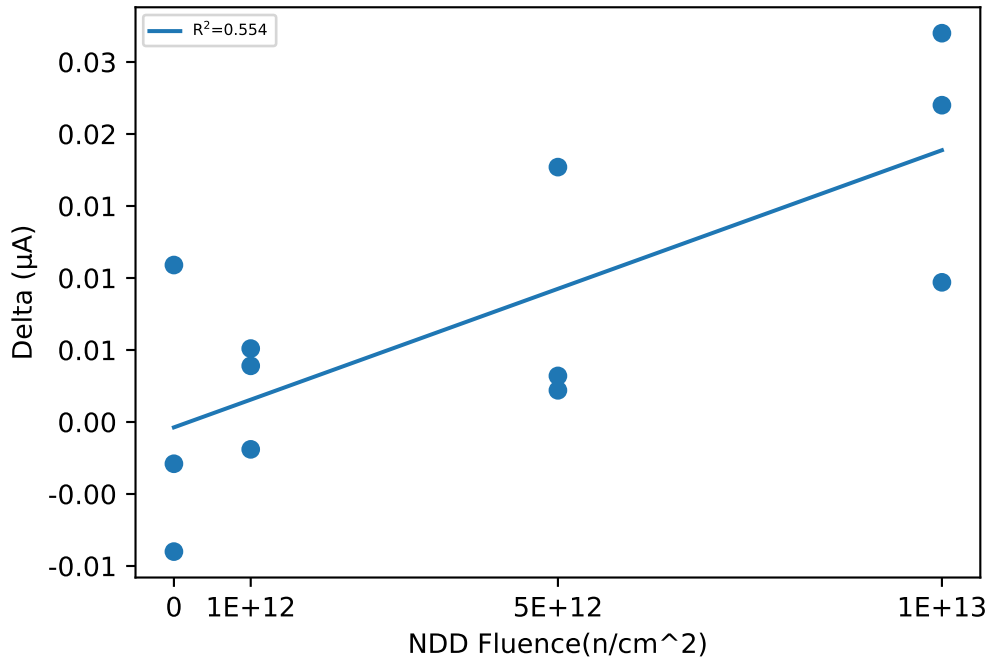
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0274	-0.0223	0.0051
2	1e+12	NDD, unbiased	-0.0206	-0.0167	0.0039
3	1e+12	NDD, unbiased	-0.0149	-0.0168	-0.0019
4	5e+12	NDD, unbiased	-0.0229	-0.0207	0.0022
5	5e+12	NDD, unbiased	-0.0231	-0.0054	0.0177
6	5e+12	NDD, unbiased	-0.0117	-0.0085	0.0032
7	1e+13	NDD, unbiased	-0.0218	-0.0121	0.0097
8	1e+13	NDD, unbiased	-0.0295	-0.0025	0.027
9	1e+13	NDD, unbiased	-0.0251	-0.0031	0.022
10	0	correlation	-0.0148	-0.0238	-0.009
11	0	correlation	-0.0151	-0.018	-0.0029
12	0	correlation	-0.0296	-0.0187	0.0109

## NDD vs Post - Pre Exposure Delta

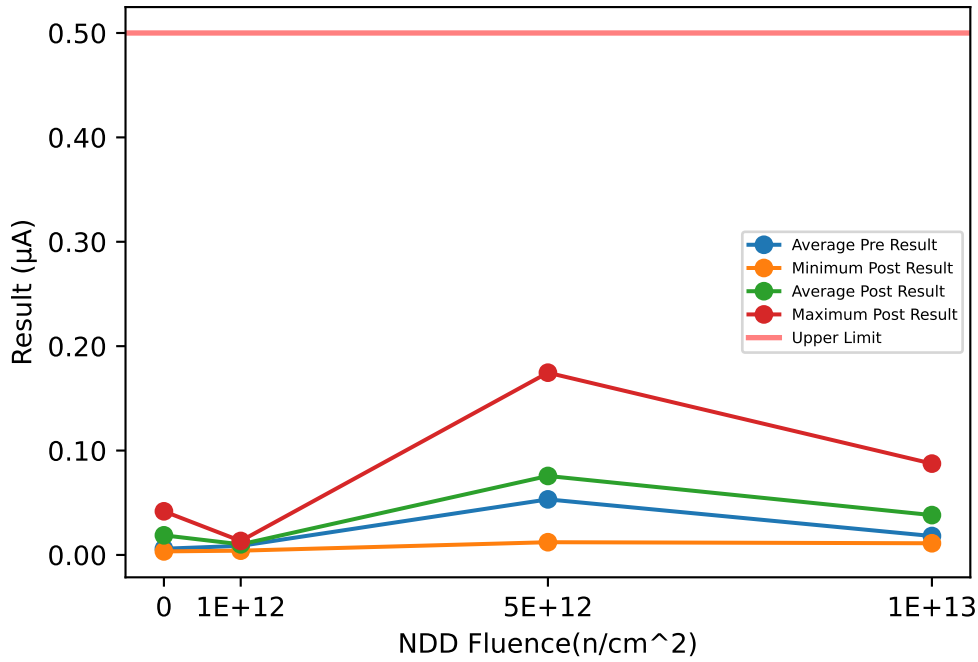


## Test Statistics (µA)

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	-0.0296	-0.019833	-0.0148	0.0084595	-0.0238	-0.020167	-0.018	0.003166	-0.009	-0.00033333	0.0109	0.010195
1e+12	-0.0274	-0.020967	-0.0149	0.0062581	-0.0223	-0.0186	-0.0167	0.0032047	-0.0019	0.0023667	0.0051	0.0037434
5e+12	-0.0231	-0.019233	-0.0117	0.0065248	-0.0207	-0.011533	-0.0054	0.0080885	0.0022	0.0077	0.0177	0.0086747
1e+13	-0.0295	-0.025467	-0.0218	0.0038631	-0.0121	-0.0059	-0.0025	0.0053777	0.0097	0.019567	0.027	0.008903

# Device Test: 5.14 UJSQ47(ISD\_12V\_UJSQ47)

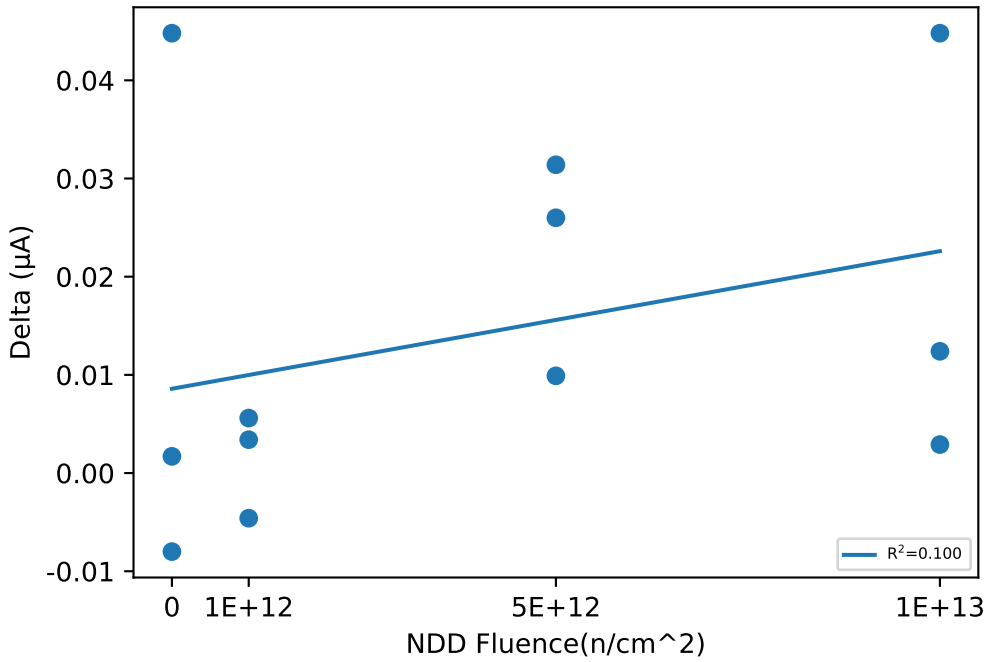
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0087	0.0041	-0.0046
2	1e+12	NDD, unbiased	0.01	0.0134	0.0034
3	1e+12	NDD, unbiased	0.0074	0.013	0.0056
4	5e+12	NDD, unbiased	0.0023	0.0122	0.0099
5	5e+12	NDD, unbiased	0.0088	0.0402	0.0314
6	5e+12	NDD, unbiased	0.1486	0.1746	0.026
7	1e+13	NDD, unbiased	0.0083	0.0112	0.0029
8	1e+13	NDD, unbiased	0.0427	0.0875	0.0448
9	1e+13	NDD, unbiased	0.0034	0.0158	0.0124
10	0	correlation	0.0114	0.0034	-0.008
11	0	correlation	0.0095	0.0112	0.0017
12	0	correlation	-0.003	0.0418	0.0448

## NDD vs Post - Pre Exposure Delta



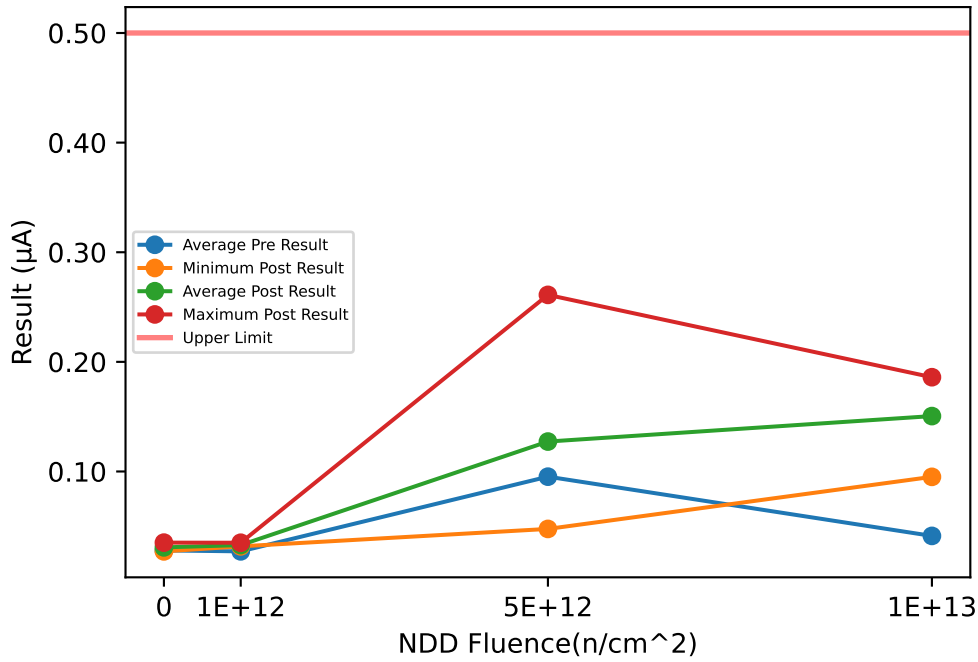
## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.003	0.0059667	0.0114	0.0078233	0.0034	0.0188	0.0418	0.020297	-0.008	0.012833	0.0448	0.028106
1e+12	0.0074	0.0087	0.01	0.0013	0.0041	0.010167	0.0134	0.0052577	-0.0046	0.0014667	0.0056	0.0053678
5e+12	0.0023	0.053233	0.1486	0.082654	0.0122	0.075667	0.1746	0.086815	0.0099	0.022433	0.0314	0.011185
1e+13	0.0034	0.018133	0.0427	0.021416	0.0112	0.038167	0.0875	0.042786	0.0029	0.020033	0.0448	0.021968



# Device Test: 5.15 UJSQ47(ISD\_28V\_UJSQ47)

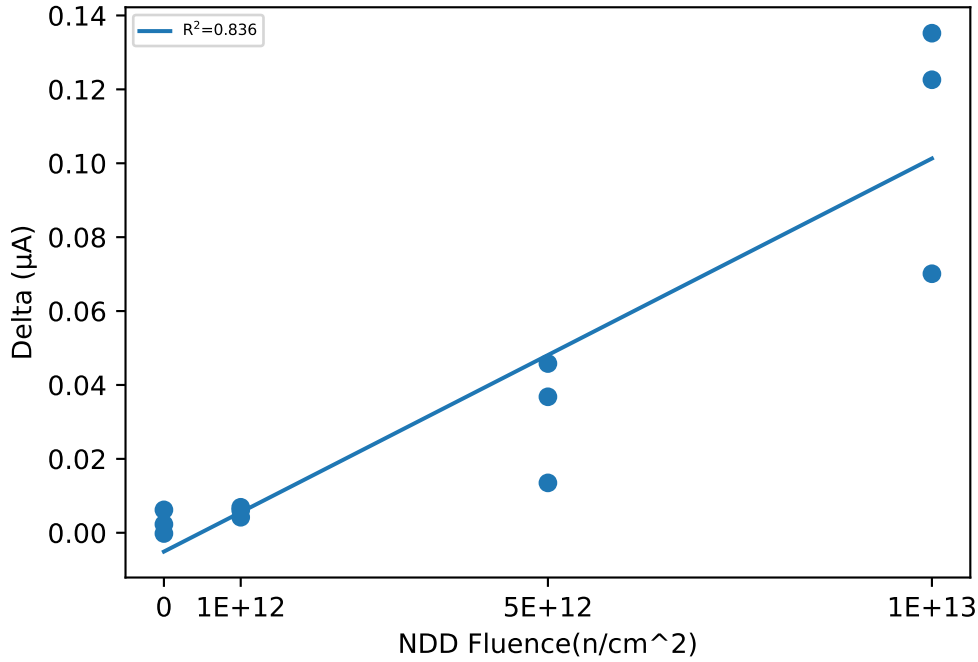
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0281	0.035	0.0069
2	1e+12	NDD, unbiased	0.0258	0.0319	0.0061
3	1e+12	NDD, unbiased	0.0275	0.0317	0.0042
4	5e+12	NDD, unbiased	0.0341	0.0476	0.0135
5	5e+12	NDD, unbiased	0.0364	0.0732	0.0368
6	5e+12	NDD, unbiased	0.2153	0.2611	0.0458
7	1e+13	NDD, unbiased	0.025	0.0951	0.0701
8	1e+13	NDD, unbiased	0.0634	0.186	0.1226
9	1e+13	NDD, unbiased	0.0353	0.1705	0.1352
10	0	correlation	0.0289	0.0351	0.0062
11	0	correlation	0.0278	0.0301	0.0023
12	0	correlation	0.0273	0.0271	-0.0002

## NDD vs Post - Pre Exposure Delta

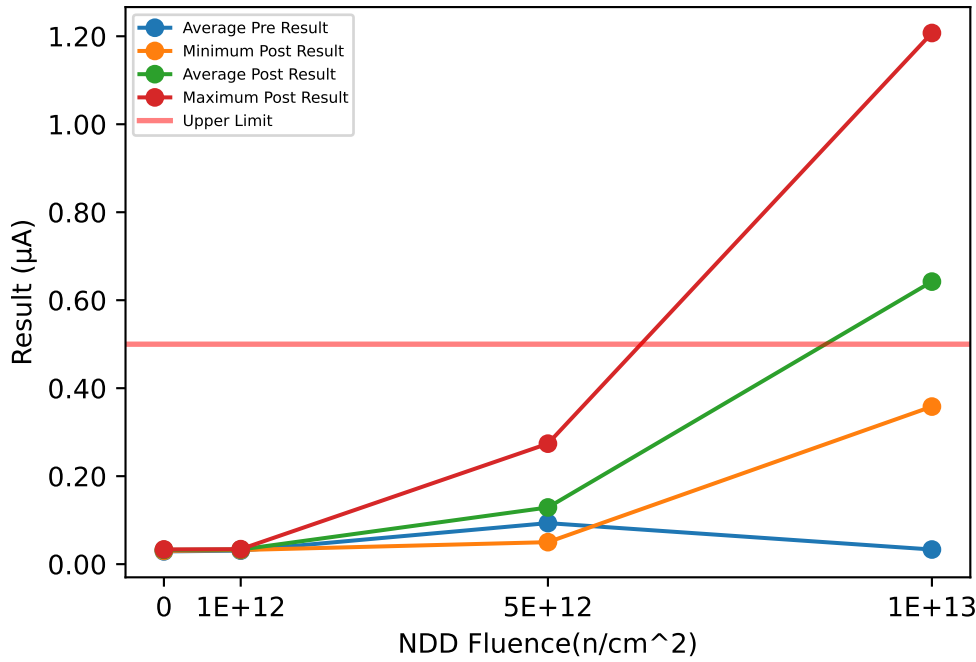


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0273	0.028	0.0289	0.00081854	0.0271	0.030767	0.0351	0.0040415	-0.0002	0.0027667	0.0062	0.0032254
1e+12	0.0258	0.027133	0.0281	0.001193	0.0317	0.032867	0.035	0.0018502	0.0042	0.0057333	0.0069	0.0013868
5e+12	0.0341	0.095267	0.2153	0.10396	0.0476	0.1273	0.2611	0.11658	0.0135	0.032033	0.0458	0.016669
1e+13	0.025	0.041233	0.0634	0.019876	0.0951	0.15053	0.186	0.048628	0.0701	0.1093	0.1352	0.034528

# Device Test: 5.16 UJSQ47(ISD\_32V\_UJSQ47)

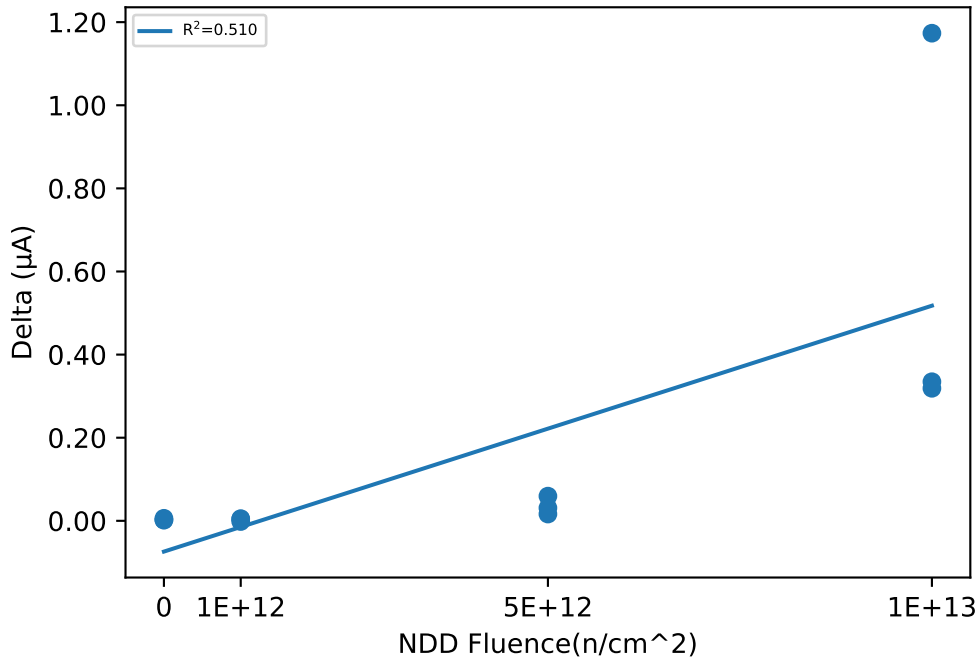
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0269	0.0321	0.0052
2	1e+12	NDD, unbiased	0.0294	0.0335	0.0041
3	1e+12	NDD, unbiased	0.0358	0.0341	-0.0017
4	5e+12	NDD, unbiased	0.0337	0.05	0.0163
5	5e+12	NDD, unbiased	0.0317	0.0628	0.0311
6	5e+12	NDD, unbiased	0.2145	0.2739	0.0594
7	1e+13	NDD, unbiased	0.0265	0.3612	0.3347
8	1e+13	NDD, unbiased	0.0393	0.3582	0.3189
9	1e+13	NDD, unbiased	0.034	1.2074	1.1734
10	0	correlation	0.031	0.0334	0.0024
11	0	correlation	0.0286	0.0302	0.0016
12	0	correlation	0.0274	0.0335	0.0061

## NDD vs Post - Pre Exposure Delta

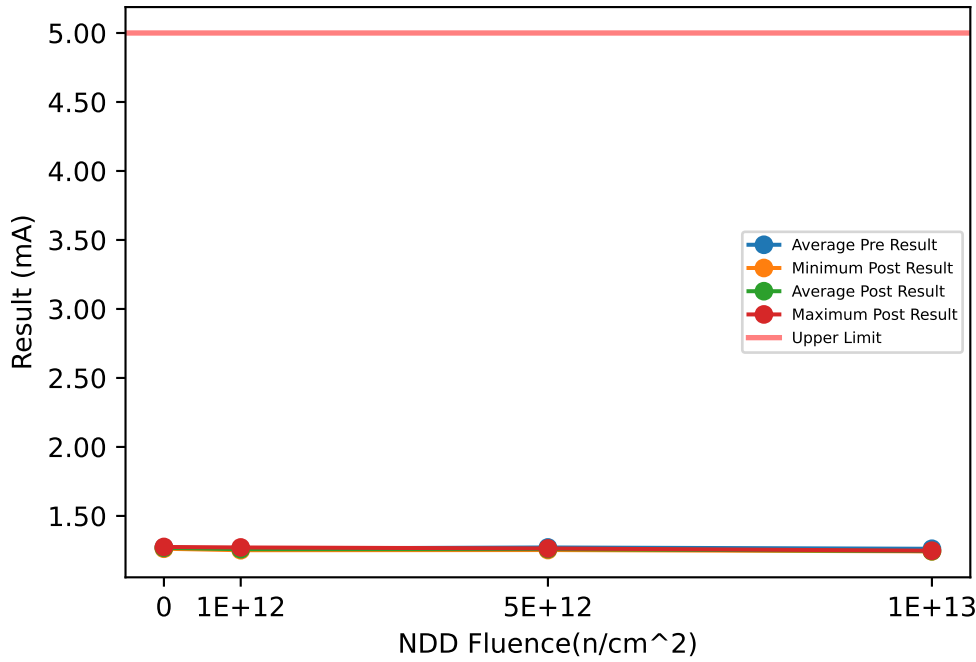


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0274	0.029	0.031	0.001833	0.0302	0.032367	0.0335	0.0018771	0.0016	0.0033667	0.0061	0.0024007
1e+12	0.0269	0.0307	0.0358	0.0045902	0.0321	0.033233	0.0341	0.0010263	-0.0017	0.0025333	0.0052	0.0037072
5e+12	0.0317	0.0933	0.2145	0.10497	0.05	0.1289	0.2739	0.12574	0.0163	0.0356	0.0594	0.0219
1e+13	0.0265	0.033267	0.0393	0.0064314	0.3582	0.64227	1.2074	0.48942	0.3189	0.609	1.1734	0.48885

# Device Test: 5.17 UJ4UM7(ISD\_Diag\_5V\_UJ4UM7)

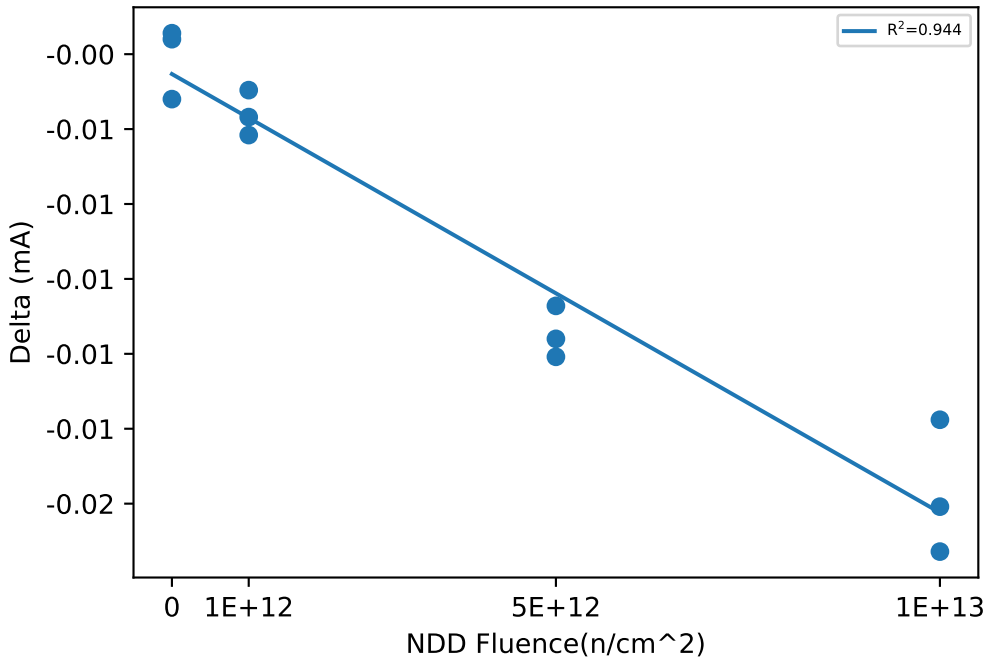
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.2591	1.2539	-0.0052
2	1e+12	NDD, unbiased	1.2752	1.2715	-0.0037
3	1e+12	NDD, unbiased	1.2559	1.2513	-0.0046
4	5e+12	NDD, unbiased	1.274	1.262	-0.012
5	5e+12	NDD, unbiased	1.2653	1.2527	-0.0126
6	5e+12	NDD, unbiased	1.2752	1.2643	-0.0109
7	1e+13	NDD, unbiased	1.2656	1.248	-0.0176
8	1e+13	NDD, unbiased	1.2628	1.2437	-0.0191
9	1e+13	NDD, unbiased	1.2576	1.2429	-0.0147
10	0	correlation	1.2721	1.2681	-0.004
11	0	correlation	1.2769	1.2751	-0.0018
12	0	correlation	1.2641	1.2621	-0.002

## NDD vs Post - Pre Exposure Delta

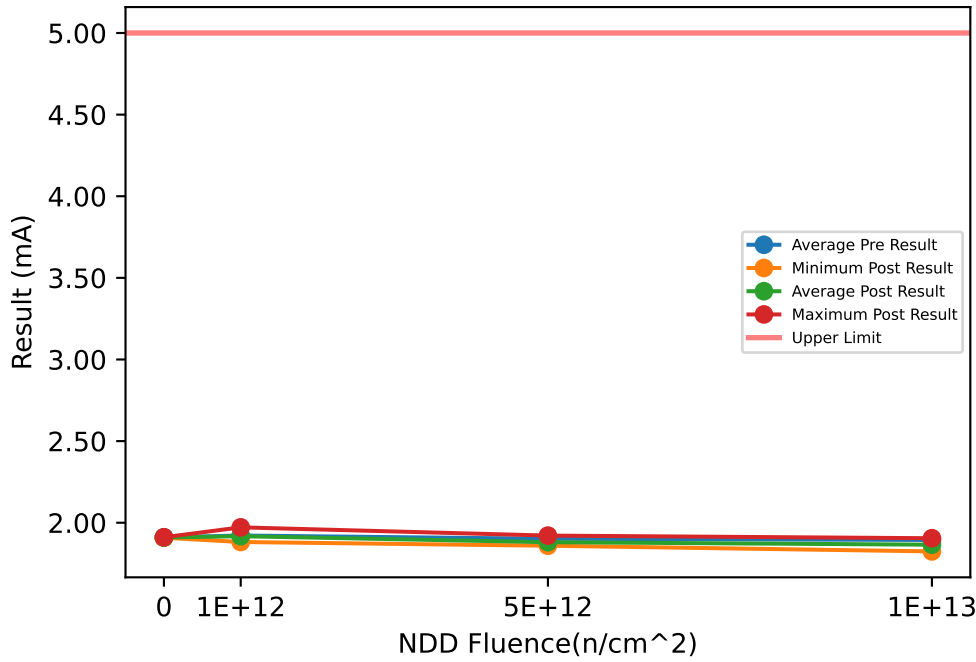


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2641	1.271	1.2769	0.0064663	1.2621	1.2684	1.2751	0.0065064	-0.004	-0.0026	-0.0018	0.0012166
1e+12	1.2559	1.2634	1.2752	0.010344	1.2513	1.2589	1.2715	0.010989	-0.0052	-0.0045	-0.0037	0.00075498
5e+12	1.2653	1.2715	1.2752	0.0054028	1.2527	1.2597	1.2643	0.0061419	-0.0126	-0.011833	-0.0109	0.00086217
1e+13	1.2576	1.262	1.2656	0.0040596	1.2429	1.2449	1.248	0.0027429	-0.0191	-0.017133	-0.0147	0.0022368

# Device Test: 5.18 UJ4UM7(ISD\_Diag\_12V\_UJ4UM7)

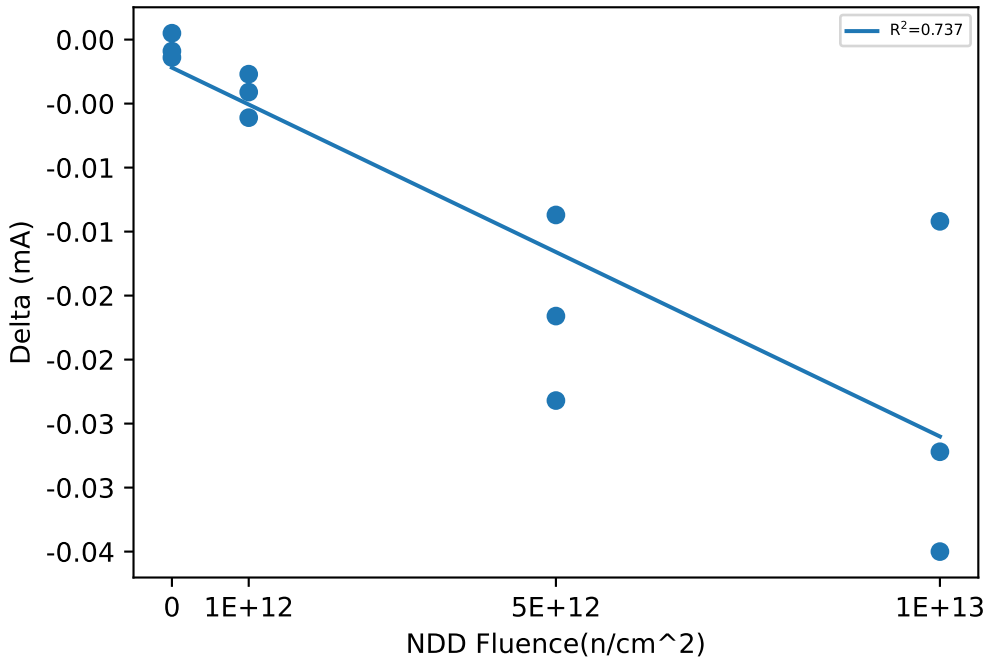
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.8846	1.8819	-0.0027
2	1e+12	NDD, unbiased	1.9758	1.9717	-0.0041
3	1e+12	NDD, unbiased	1.9047	1.8986	-0.0061
4	5e+12	NDD, unbiased	1.9428	1.9212	-0.0216
5	5e+12	NDD, unbiased	1.8899	1.8617	-0.0282
6	5e+12	NDD, unbiased	1.8729	1.8592	-0.0137
7	1e+13	NDD, unbiased	1.9373	1.9051	-0.0322
8	1e+13	NDD, unbiased	1.8644	1.8244	-0.04
9	1e+13	NDD, unbiased	1.8814	1.8672	-0.0142
10	0	correlation	1.9095	1.9081	-0.0014
11	0	correlation	1.9107	1.9098	-0.0009
12	0	correlation	1.9105	1.911	0.0005

## NDD vs Post - Pre Exposure Delta

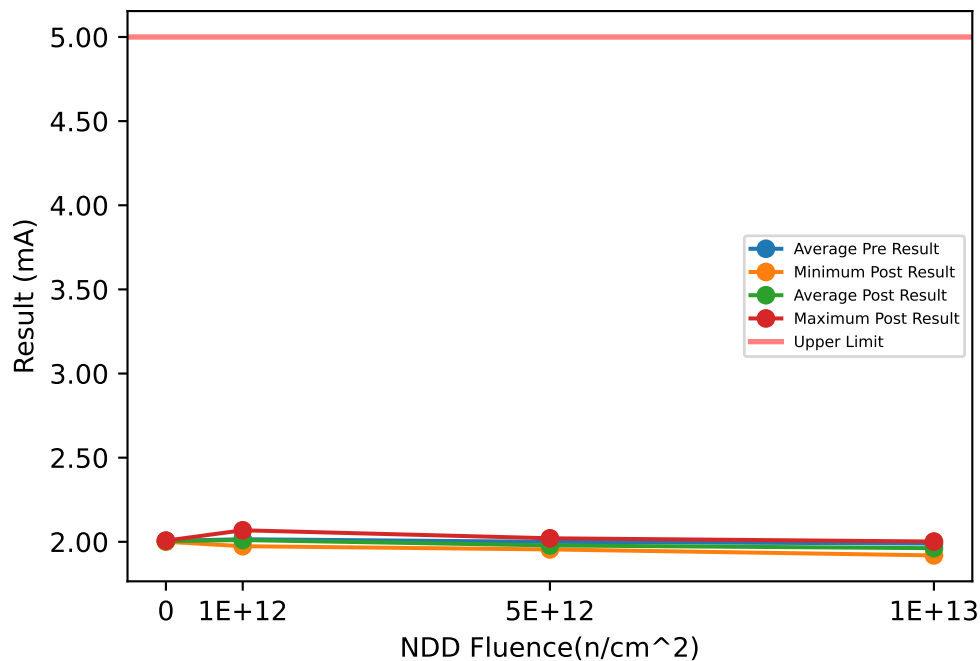


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9095	1.9102	1.9107	0.00064291	1.9081	1.9096	1.911	0.0014572	-0.0014	-0.0006	0.0005	0.00098489
1e+12	1.8846	1.9217	1.9758	0.047918	1.8819	1.9174	1.9717	0.047761	-0.0061	-0.0043	-0.0027	0.0017088
5e+12	1.8729	1.9019	1.9428	0.036454	1.8592	1.8807	1.9212	0.035096	-0.0282	-0.021167	-0.0137	0.0072597
1e+13	1.8644	1.8944	1.9373	0.038141	1.8244	1.8656	1.9051	0.040375	-0.04	-0.0288	-0.0142	0.013232

# Device Test: 5.19 UJ4UM7(ISD\_Diag\_28V\_UJ4UM7)

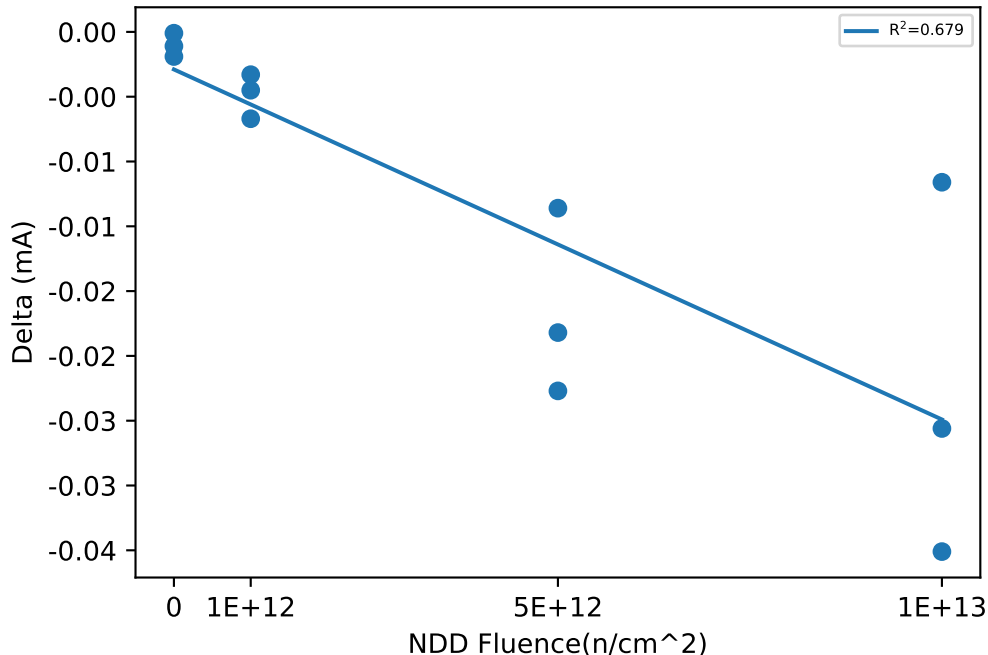
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.9772	1.9739	-0.0033
2	1e+12	NDD, unbiased	2.0731	2.0686	-0.0045
3	1e+12	NDD, unbiased	1.9956	1.9889	-0.0067
4	5e+12	NDD, unbiased	2.0442	2.021	-0.0232
5	5e+12	NDD, unbiased	1.9873	1.9596	-0.0277
6	5e+12	NDD, unbiased	1.9684	1.9548	-0.0136
7	1e+13	NDD, unbiased	2.0322	2.0016	-0.0306
8	1e+13	NDD, unbiased	1.9594	1.9193	-0.0401
9	1e+13	NDD, unbiased	1.9772	1.9656	-0.0116
10	0	correlation	2.0024	2.0005	-0.0019
11	0	correlation	2.0071	2.007	-0.0001
12	0	correlation	2.0065	2.0054	-0.0011

## NDD vs Post - Pre Exposure Delta

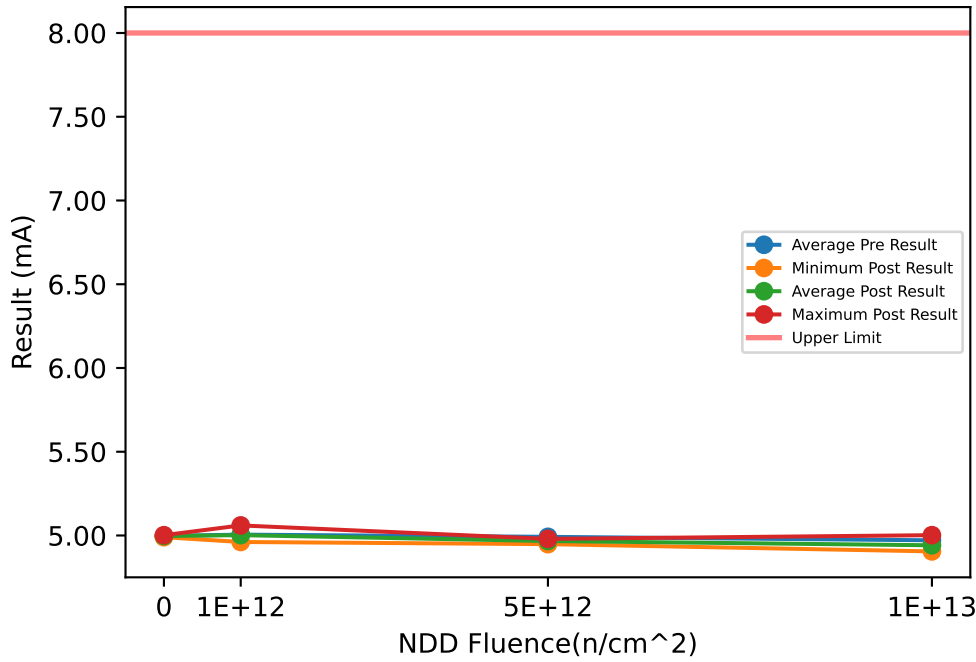


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.0024	2.0053	2.0071	0.002558	2.0005	2.0043	2.007	0.0033867	-0.0019	-0.0010333	-0.0001	0.00090185
1e+12	1.9772	2.0153	2.0731	0.050895	1.9739	2.0105	2.0686	0.050901	-0.0067	-0.0048333	-0.0033	0.0017243
5e+12	1.9684	2	2.0442	0.039456	1.9548	1.9785	2.021	0.036913	-0.0277	-0.0215	-0.0136	0.0072021
1e+13	1.9594	1.9896	2.0322	0.037951	1.9193	1.9622	2.0016	0.041257	-0.0401	-0.027433	-0.0116	0.014511

# Device Test: 5.2 UJTKLS(Iop\_12V\_UJTKLS)

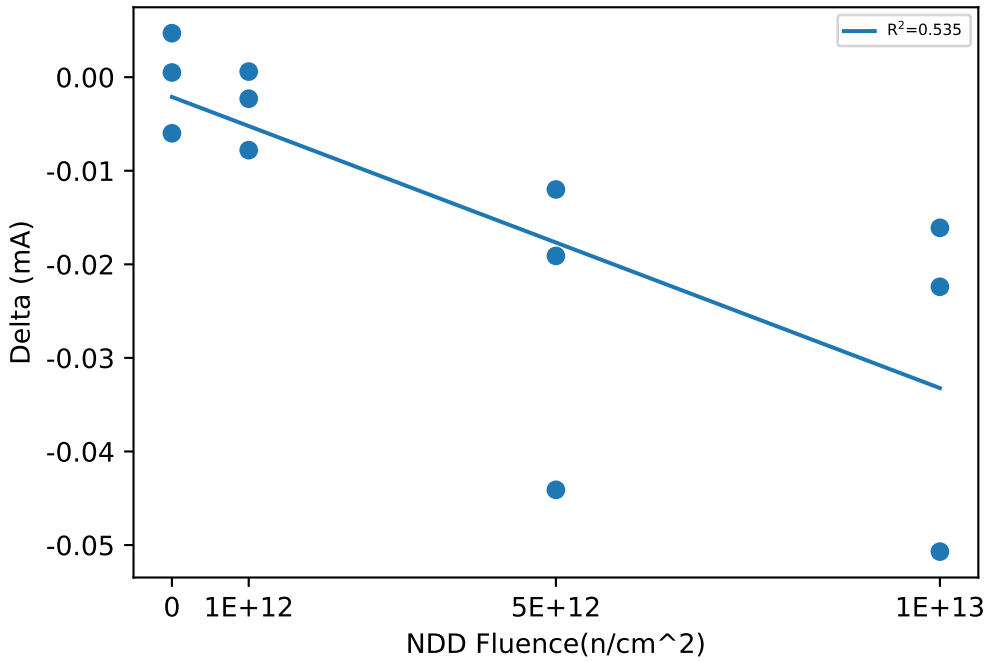
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	4.984	4.9846	0.0006
2	1e+12	NDD, unbiased	5.0624	5.0601	-0.0023
3	1e+12	NDD, unbiased	4.969	4.9612	-0.0078
4	5e+12	NDD, unbiased	4.9988	4.9797	-0.0191
5	5e+12	NDD, unbiased	4.9924	4.9483	-0.0441
6	5e+12	NDD, unbiased	4.9847	4.9727	-0.012
7	1e+13	NDD, unbiased	5.0243	5.0019	-0.0224
8	1e+13	NDD, unbiased	4.9557	4.905	-0.0507
9	1e+13	NDD, unbiased	4.9337	4.9176	-0.0161
10	0	correlation	4.9851	4.9898	0.0047
11	0	correlation	5.0013	5.0018	0.0005
12	0	correlation	5.005	4.999	-0.006

## NDD vs Post - Pre Exposure Delta

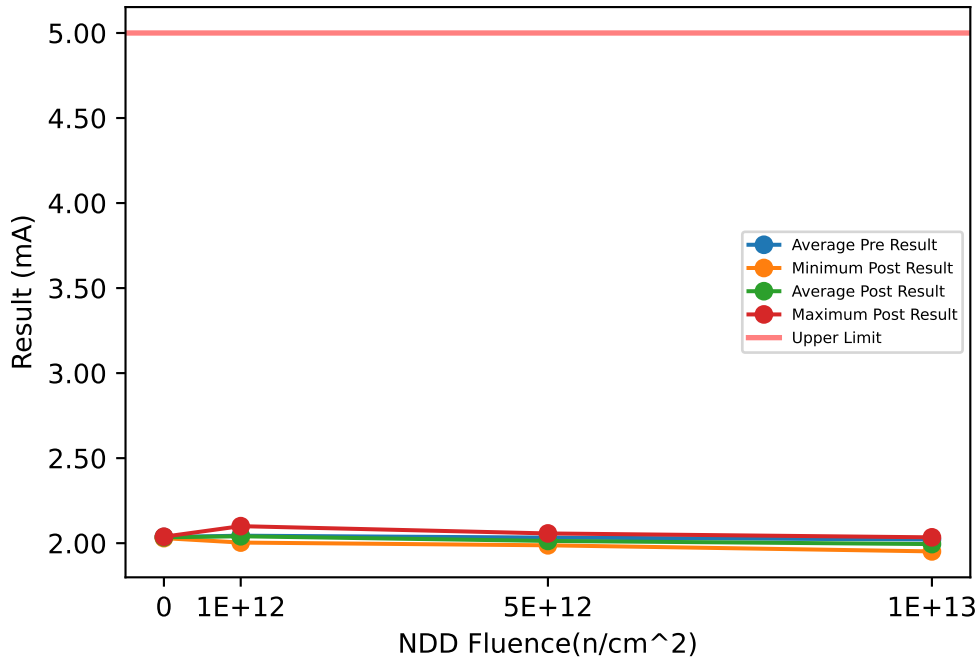


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9851	4.9971	5.005	0.010584	4.9898	4.9969	5.0018	0.006278	-0.006	-0.00026667	0.0047	0.005391
1e+12	4.969	5.0051	5.0624	0.050158	4.9612	5.002	5.0601	0.051687	-0.0078	-0.0031667	0.0006	0.0042665
5e+12	4.9847	4.992	4.9988	0.00706	4.9483	4.9669	4.9797	0.016484	-0.0441	-0.025067	-0.012	0.016861
1e+13	4.9337	4.9712	5.0243	0.047255	4.905	4.9415	5.0019	0.052686	-0.0507	-0.029733	-0.0161	0.018429

# Device Test: 5.20 UJ4UM7(ISD\_Diag\_32V\_UJ4UM7)

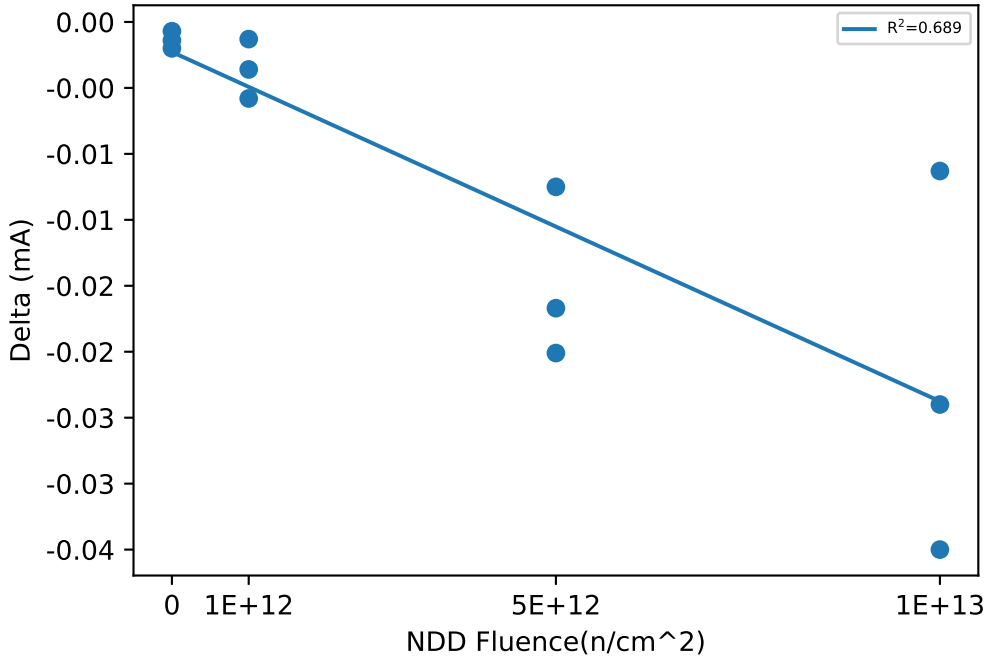
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	2.0049	2.0036	-0.0013
2	1e+12	NDD, unbiased	2.1037	2.1001	-0.0036
3	1e+12	NDD, unbiased	2.0238	2.018	-0.0058
4	5e+12	NDD, unbiased	2.079	2.0573	-0.0217
5	5e+12	NDD, unbiased	2.0197	1.9946	-0.0251
6	5e+12	NDD, unbiased	2	1.9875	-0.0125
7	1e+13	NDD, unbiased	2.0634	2.0344	-0.029
8	1e+13	NDD, unbiased	1.9917	1.9517	-0.04
9	1e+13	NDD, unbiased	2.0093	1.998	-0.0113
10	0	correlation	2.0316	2.0296	-0.002
11	0	correlation	2.0388	2.0381	-0.0007
12	0	correlation	2.0379	2.0365	-0.0014

## NDD vs Post - Pre Exposure Delta

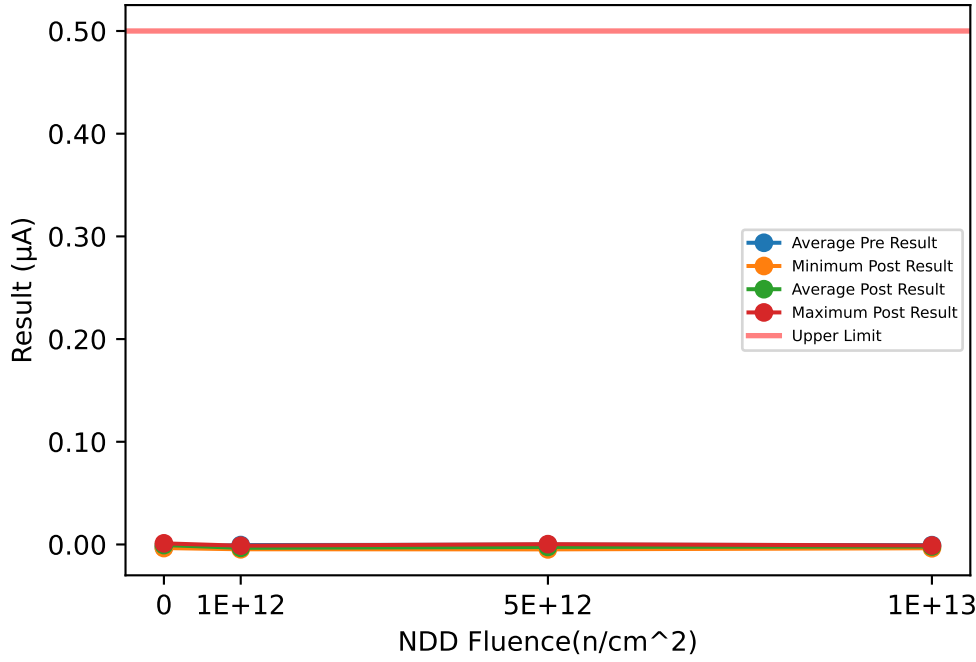


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.0316	2.0361	2.0388	0.003923	2.0296	2.0347	2.0381	0.004517	-0.002	-0.0013667	-0.0007	0.00065064
1e+12	2.0049	2.0441	2.1037	0.052445	2.0036	2.0406	2.1001	0.052058	-0.0058	-0.0035667	-0.0013	0.0022502
5e+12	2	2.0329	2.079	0.041121	1.9875	2.0131	2.0573	0.038414	-0.0251	-0.019767	-0.0125	0.0065187
1e+13	1.9917	2.0215	2.0634	0.037366	1.9517	1.9947	2.0344	0.041449	-0.04	-0.026767	-0.0113	0.01448

# Device Test: 5.21 UJ3WW2(IF1\_5V\_UJ3WW2)

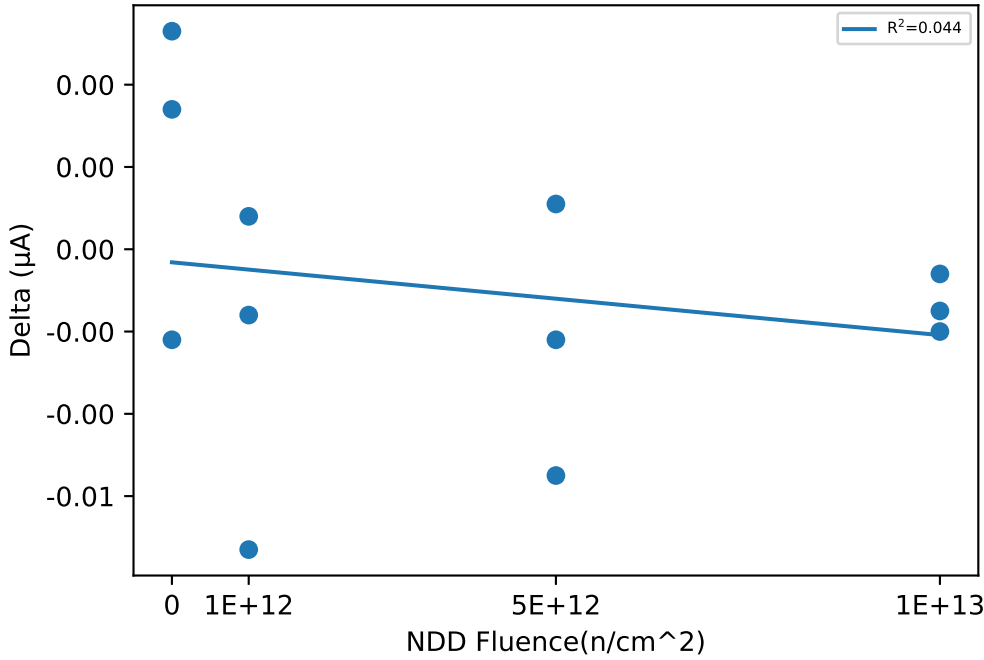
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0026	-0.0047	-0.0073
2	1e+12	NDD, unbiased	-0.002	-0.0012	0.0008
3	1e+12	NDD, unbiased	-0.0023	-0.0039	-0.0016
4	5e+12	NDD, unbiased	-0.0005	-0.0027	-0.0022
5	5e+12	NDD, unbiased	-0.0008	0.0003	0.0011
6	5e+12	NDD, unbiased	0.0007	-0.0048	-0.0055
7	1e+13	NDD, unbiased	-0.0031	-0.0037	-0.0006
8	1e+13	NDD, unbiased	0.0001	-0.0014	-0.0015
9	1e+13	NDD, unbiased	0.001	-0.001	-0.002
10	0	correlation	-0.0028	0.0006	0.0034
11	0	correlation	-0.0042	0.0011	0.0053
12	0	correlation	-0.0013	-0.0035	-0.0022

## NDD vs Post - Pre Exposure Delta



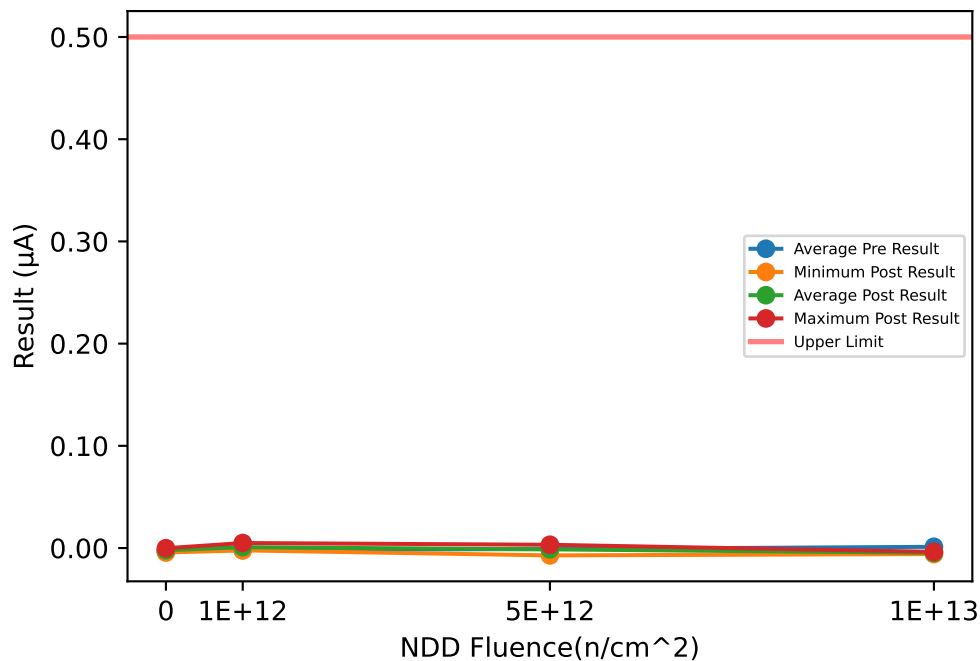
## Test Statistics (µA)

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	-0.0042	-0.0027667	-0.0013	0.0014503	-0.0035	-0.0006	0.0011	0.0025239	-0.0022	0.0021667	0.0053	0.0038991
1e+12	-0.0023	-0.00056667	0.0026	0.0027465	-0.0047	-0.0032667	-0.0012	0.0018339	-0.0073	-0.0027	0.0008	0.0041605
5e+12	-0.0008	-0.0002	0.0007	0.00079373	-0.0048	-0.0024	0.0003	0.0025632	-0.0055	-0.0022	0.0011	0.0033
1e+13	-0.0031	-0.00066667	0.001	0.0021548	-0.0037	-0.0020333	-0.001	0.0014572	-0.002	-0.0013667	-0.0006	0.00070946



# Device Test: 5.22 UJ3WW2(IF1\_12V\_UJ3WW2)

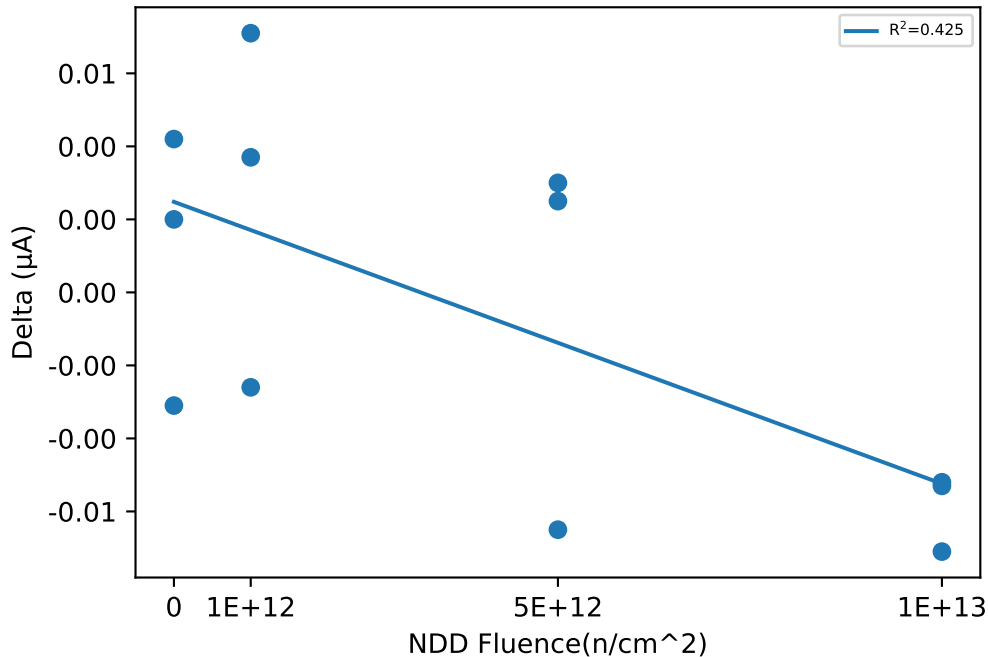
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0022	0.0049	0.0071
2	1e+12	NDD, unbiased	-0.0038	-0.0001	0.0037
3	1e+12	NDD, unbiased	0.0003	-0.0023	-0.0026
4	5e+12	NDD, unbiased	0.0007	0.0032	0.0025
5	5e+12	NDD, unbiased	-0.0029	0.0001	0.003
6	5e+12	NDD, unbiased	-0.0007	-0.0072	-0.0065
7	1e+13	NDD, unbiased	-0.0007	-0.0059	-0.0052
8	1e+13	NDD, unbiased	0.0027	-0.0044	-0.0071
9	1e+13	NDD, unbiased	0.0016	-0.0037	-0.0053
10	0	correlation	-0.0022	-0.0002	0.002
11	0	correlation	-0.006	-0.0018	0.0042
12	0	correlation	-0.0013	-0.0044	-0.0031

## NDD vs Post - Pre Exposure Delta

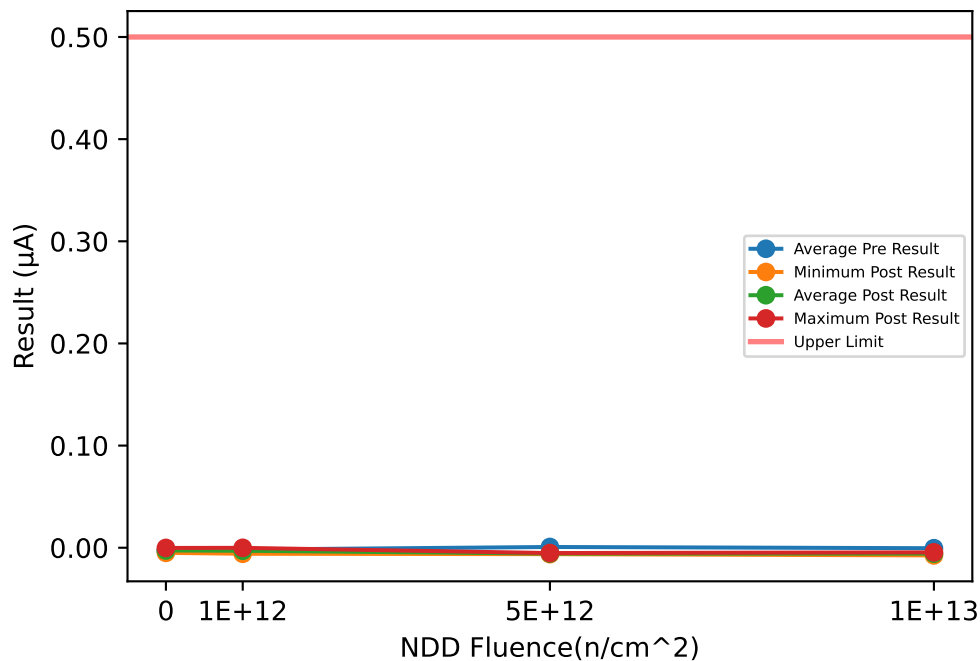


## Test Statistics (µA)

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	-0.006	-0.0031667	-0.0013	0.0024947	-0.0044	-0.0021333	-0.0002	0.0021197	-0.0031	0.0010333	0.0042	0.0037448
1e+12	-0.0038	-0.0019	0.0003	0.0020664	-0.0023	0.00083333	0.0049	0.0036896	-0.0026	0.0027333	0.0071	0.0049217
5e+12	-0.0029	-0.00096667	0.0007	0.0018148	-0.0072	-0.0013	0.0032	0.0053395	-0.0065	-0.00033333	0.003	0.0053463
1e+13	-0.0007	0.0012	0.0027	0.0017349	-0.0059	-0.0046667	-0.0037	0.001124	-0.0071	-0.0058667	-0.0052	0.0010693

# Device Test: 5.23 UJ3WW2(IF1\_28V\_UJ3WW2)

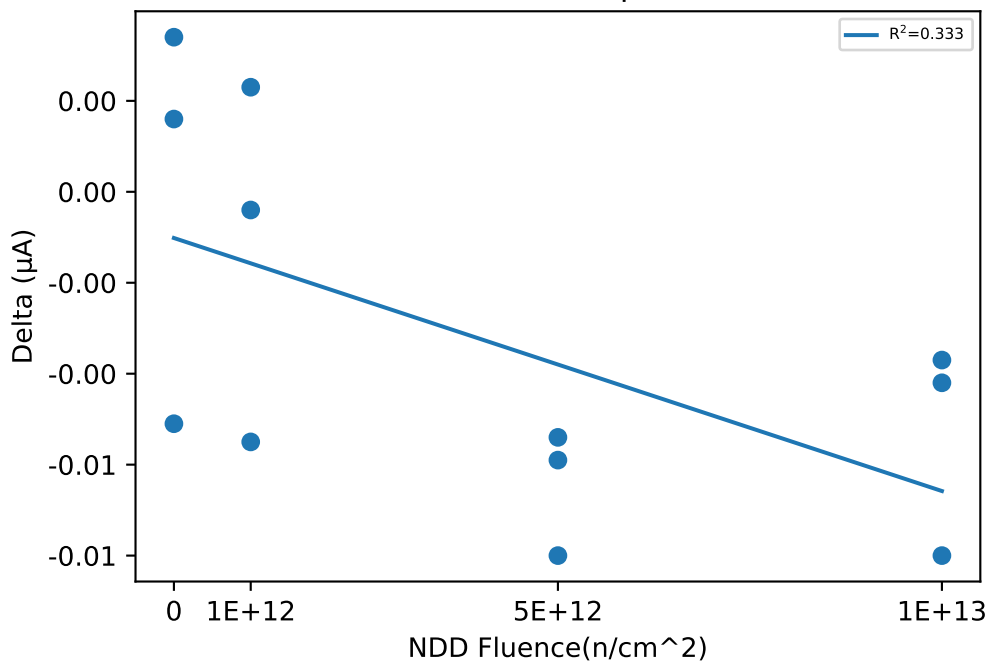
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0004	-0.0059	-0.0055
2	1e+12	NDD, unbiased	-0.0024	-0.0001	0.0023
3	1e+12	NDD, unbiased	-0.0025	-0.0029	-0.0004
4	5e+12	NDD, unbiased	0.0017	-0.0063	-0.008
5	5e+12	NDD, unbiased	-0.0002	-0.0056	-0.0054
6	5e+12	NDD, unbiased	0.0007	-0.0052	-0.0059
7	1e+13	NDD, unbiased	-0.0011	-0.0053	-0.0042
8	1e+13	NDD, unbiased	0.0005	-0.0075	-0.008
9	1e+13	NDD, unbiased	-0.0008	-0.0045	-0.0037
10	0	correlation	-0.0018	-0.0002	0.0016
11	0	correlation	-0.0062	-0.0028	0.0034
12	0	correlation	0.0001	-0.005	-0.0051

## NDD vs Post - Pre Exposure Delta

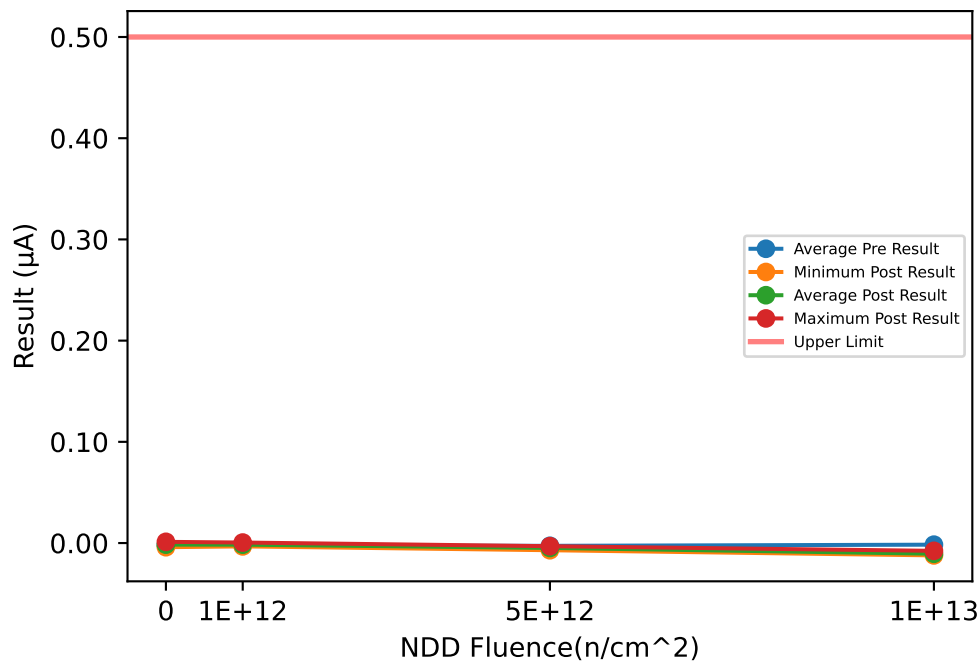


## Test Statistics (µA)

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	-0.0062	-0.0026333	0.0001	0.0032316	-0.005	-0.0026667	-0.0002	0.0024028	-0.0051	-3.3333e-05	0.0034	0.0044792
1e+12	-0.0025	-0.0017667	-0.0004	0.0011846	-0.0059	-0.0029667	-0.0001	0.0029006	-0.0055	-0.0012	0.0023	0.0039611
5e+12	-0.0002	0.00073333	0.0017	0.00095044	-0.0063	-0.0057	-0.0052	0.00055678	-0.008	-0.0064333	-0.0054	0.0013796
1e+13	-0.0011	-0.00046667	0.0005	0.00085049	-0.0075	-0.0057667	-0.0045	0.0015535	-0.008	-0.0053	-0.0037	0.0023516

# Device Test: 5.24 UJ3WW2(IF1\_32V\_UJ3WW2)

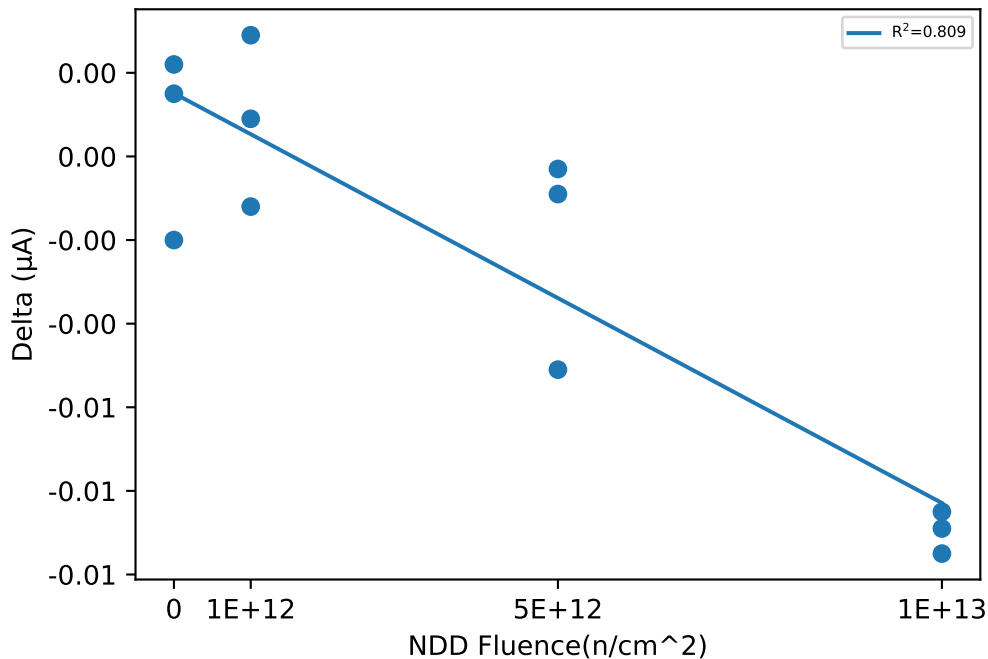
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0029	-0.002	0.0009
2	1e+12	NDD, unbiased	-0.0024	0.0005	0.0029
3	1e+12	NDD, unbiased	-0.0021	-0.0033	-0.0012
4	5e+12	NDD, unbiased	-0.0034	-0.0043	-0.0009
5	5e+12	NDD, unbiased	-0.002	-0.0071	-0.0051
6	5e+12	NDD, unbiased	-0.0028	-0.0031	-0.0003
7	1e+13	NDD, unbiased	-0.0033	-0.0122	-0.0089
8	1e+13	NDD, unbiased	-0.0023	-0.0118	-0.0095
9	1e+13	NDD, unbiased	0.0008	-0.0077	-0.0085
10	0	correlation	-0.001	0.0012	0.0022
11	0	correlation	-0.0033	-0.0018	0.0015
12	0	correlation	-0.0021	-0.0041	-0.002

## NDD vs Post - Pre Exposure Delta

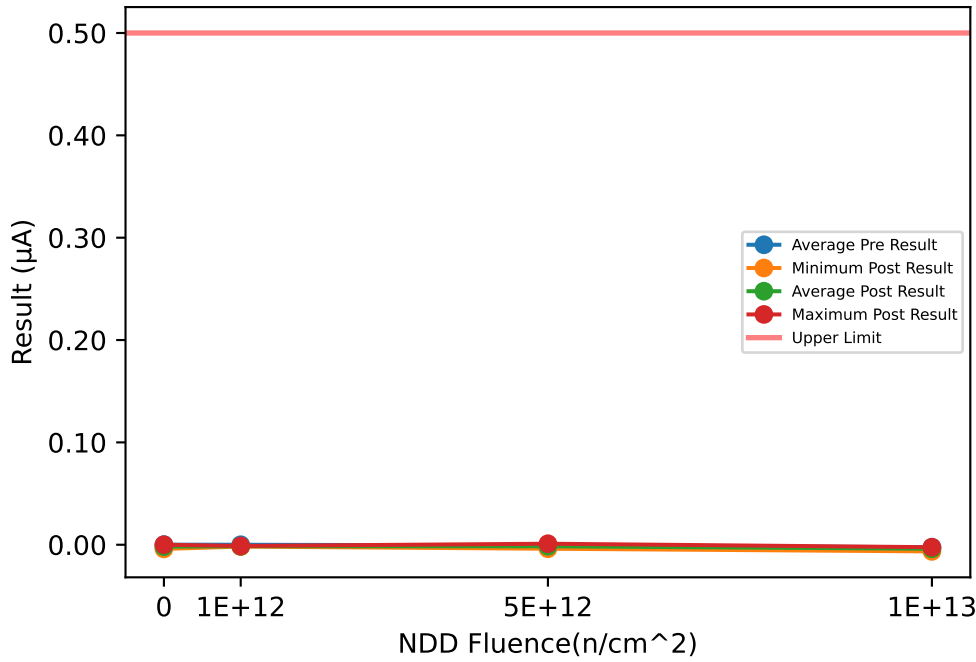


## Test Statistics (µA)

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	-0.0033	-0.0021333	-0.001	0.0011504	-0.0041	-0.0015667	0.0012	0.0026577	-0.002	0.00056667	0.0022	0.0022502
1e+12	-0.0029	-0.0024667	-0.0021	0.00040415	-0.0033	-0.0016	0.0005	0.0019313	-0.0012	0.00086667	0.0029	0.0020502
5e+12	-0.0034	-0.0027333	-0.002	0.00070238	-0.0071	-0.0048333	-0.0031	0.0020526	-0.0051	-0.0021	-0.0003	0.0026153
1e+13	-0.0033	-0.0016	0.0008	0.0021378	-0.0122	-0.010567	-0.0077	0.0024906	-0.0095	-0.0089667	-0.0085	0.00050332

# Device Test: 5.25 UJ3WW2(IF2\_5V\_UJ3WW2)

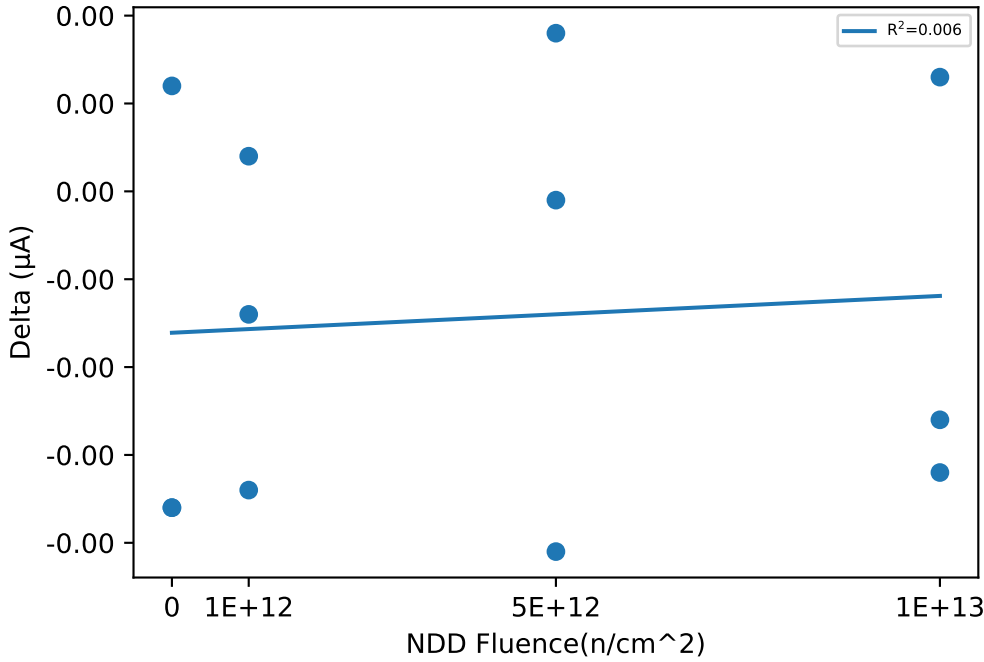
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0002	-0.0012	-0.0014
2	1e+12	NDD, unbiased	0.0016	-0.0018	-0.0034
3	1e+12	NDD, unbiased	-0.0018	-0.0014	0.0004
4	5e+12	NDD, unbiased	-0.0015	-0.0016	-0.0001
5	5e+12	NDD, unbiased	-0.0008	0.001	0.0018
6	5e+12	NDD, unbiased	0.0002	-0.0039	-0.0041
7	1e+13	NDD, unbiased	-0.0037	-0.0024	0.0013
8	1e+13	NDD, unbiased	-0.0033	-0.0065	-0.0032
9	1e+13	NDD, unbiased	-0.0004	-0.003	-0.0026
10	0	correlation	0.002	-0.0016	-0.0036
11	0	correlation	-0.0012	0	0.0012
12	0	correlation	-0.0005	-0.0041	-0.0036

## NDD vs Post - Pre Exposure Delta

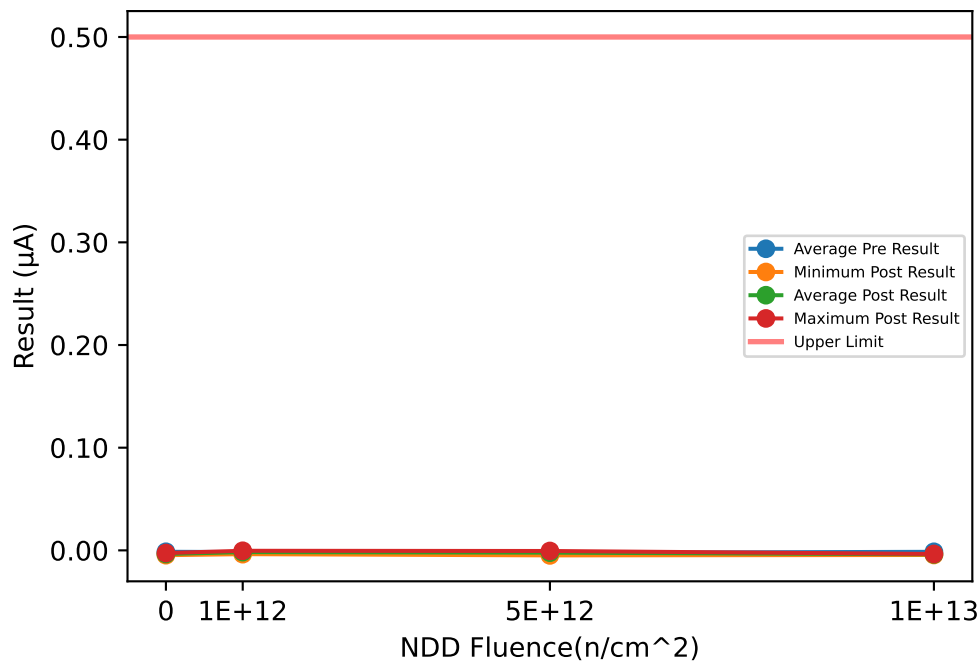


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0012	0.0001	0.002	0.0016823	-0.0041	-0.0019	0	0.0020664	-0.0036	-0.002	0.0012	0.0027713
1e+12	-0.0018	7.228e-20	0.0016	0.0017088	-0.0018	-0.0014667	-0.0012	0.00030551	-0.0034	-0.0014667	0.0004	0.0019009
5e+12	-0.0015	-0.0007	0.0002	0.0008544	-0.0039	-0.0015	0.001	0.0024515	-0.0041	-0.0008	0.0018	0.0030116
1e+13	-0.0037	-0.0024667	-0.0004	0.0018009	-0.0065	-0.0039667	-0.0024	0.0022143	-0.0032	-0.0015	0.0013	0.0024434

# Device Test: 5.26 UJ3WW2(IF2\_12V\_UJ3WW2)

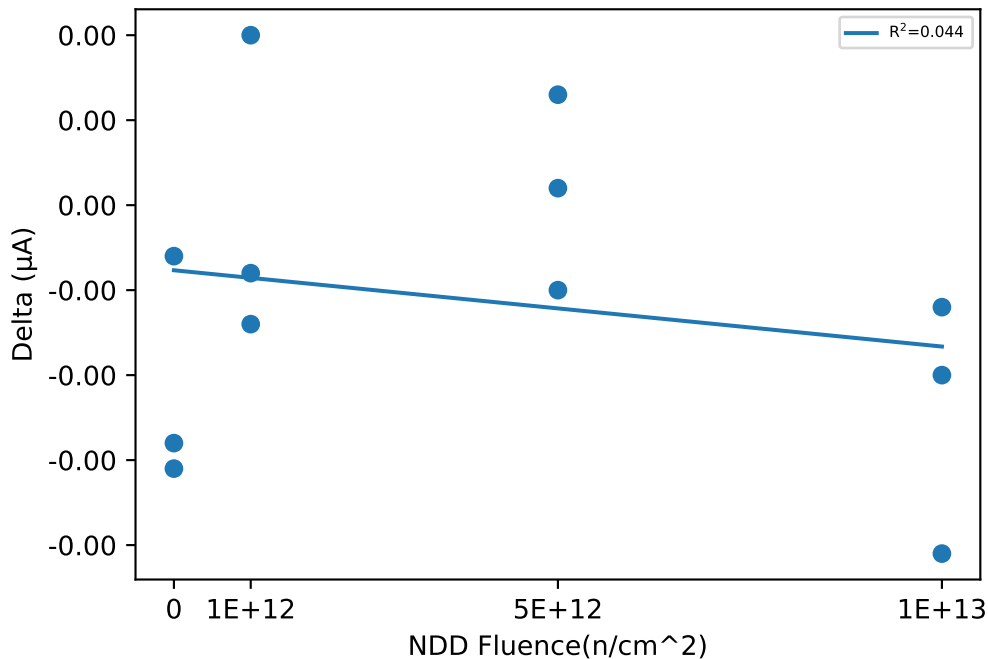
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.003	-0.001	0.002
2	1e+12	NDD, unbiased	0.001	-0.0004	-0.0014
3	1e+12	NDD, unbiased	-0.0029	-0.0037	-0.0008
4	5e+12	NDD, unbiased	-0.0019	-0.0006	0.0013
5	5e+12	NDD, unbiased	-0.0014	-0.0012	0.0002
6	5e+12	NDD, unbiased	-0.0039	-0.0049	-0.001
7	1e+13	NDD, unbiased	-0.0033	-0.0045	-0.0012
8	1e+13	NDD, unbiased	-0.0015	-0.0035	-0.002
9	1e+13	NDD, unbiased	0.0006	-0.0035	-0.0041
10	0	correlation	-0.0002	-0.0033	-0.0031
11	0	correlation	-0.002	-0.0026	-0.0006
12	0	correlation	-0.0019	-0.0047	-0.0028

## NDD vs Post - Pre Exposure Delta

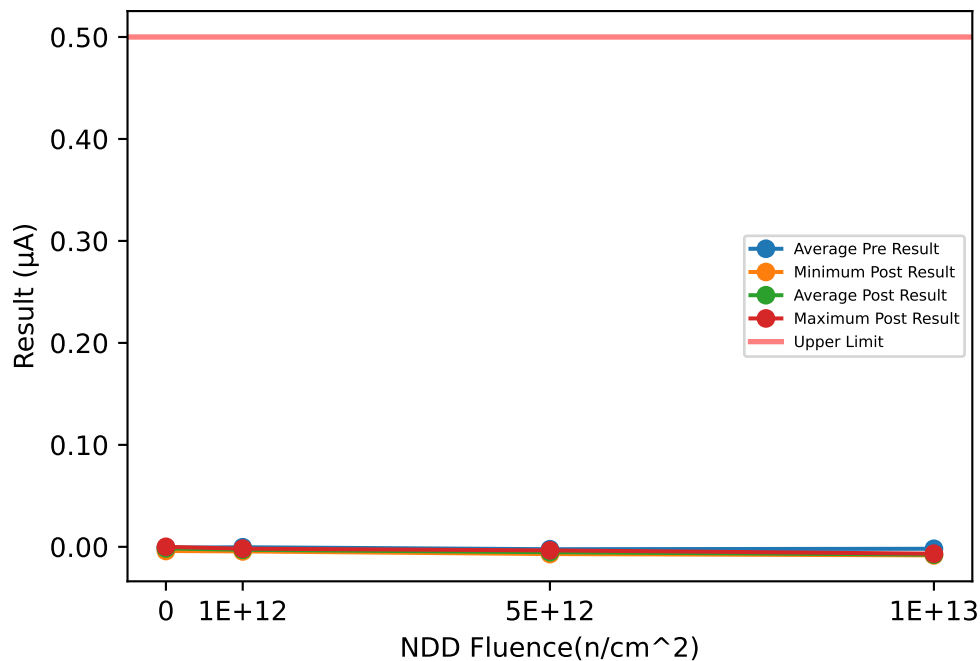


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.002	-0.0013667	-0.0002	0.0010116	-0.0047	-0.0035333	-0.0026	0.0010693	-0.0031	-0.0021667	-0.0006	0.001365
1e+12	-0.003	-0.0016333	0.001	0.0022811	-0.0037	-0.0017	-0.0004	0.0017578	-0.0014	-6.6667e-05	0.002	0.0018148
5e+12	-0.0039	-0.0024	-0.0014	0.0013229	-0.0049	-0.0022333	-0.0006	0.0023288	-0.001	0.00016667	0.0013	0.0011504
1e+13	-0.0033	-0.0014	0.0006	0.0019519	-0.0045	-0.0038333	-0.0035	0.00057735	-0.0041	-0.0024333	-0.0012	0.0014978

# Device Test: 5.27 UJ3WW2(IF2\_28V\_UJ3WW2)

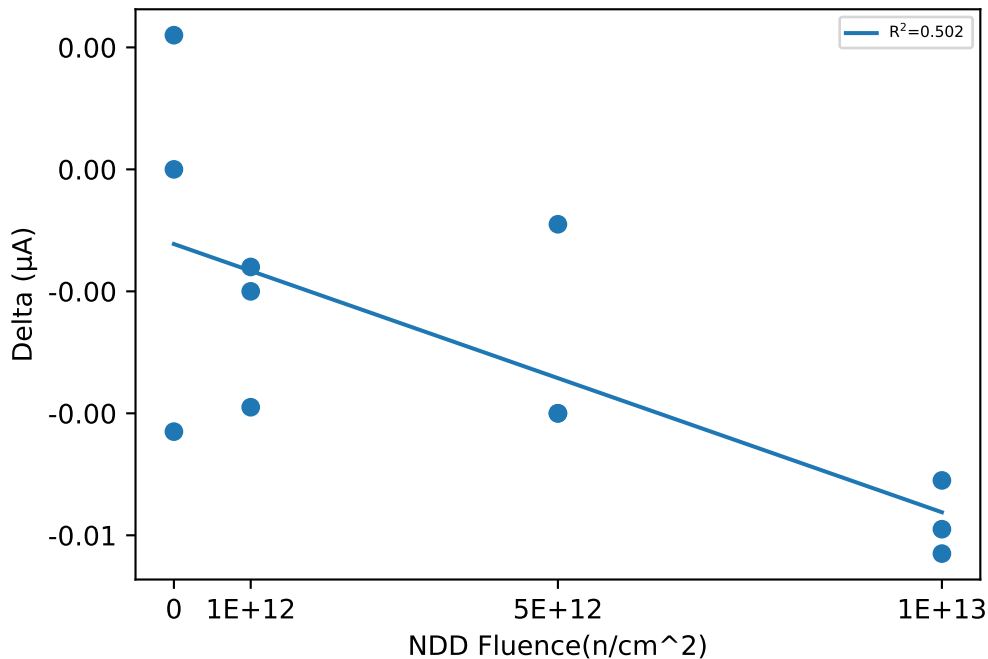
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0002	-0.0018	-0.0016
2	1e+12	NDD, unbiased	-0.0006	-0.0045	-0.0039
3	1e+12	NDD, unbiased	-0.0004	-0.0024	-0.002
4	5e+12	NDD, unbiased	-0.0013	-0.0053	-0.004
5	5e+12	NDD, unbiased	-0.0026	-0.0035	-0.0009
6	5e+12	NDD, unbiased	-0.0031	-0.0071	-0.004
7	1e+13	NDD, unbiased	-0.0028	-0.0079	-0.0051
8	1e+13	NDD, unbiased	-0.0021	-0.0084	-0.0063
9	1e+13	NDD, unbiased	-0.0008	-0.0067	-0.0059
10	0	correlation	0	0	0
11	0	correlation	-0.0028	-0.0006	0.0022
12	0	correlation	0.0002	-0.0041	-0.0043

## NDD vs Post - Pre Exposure Delta

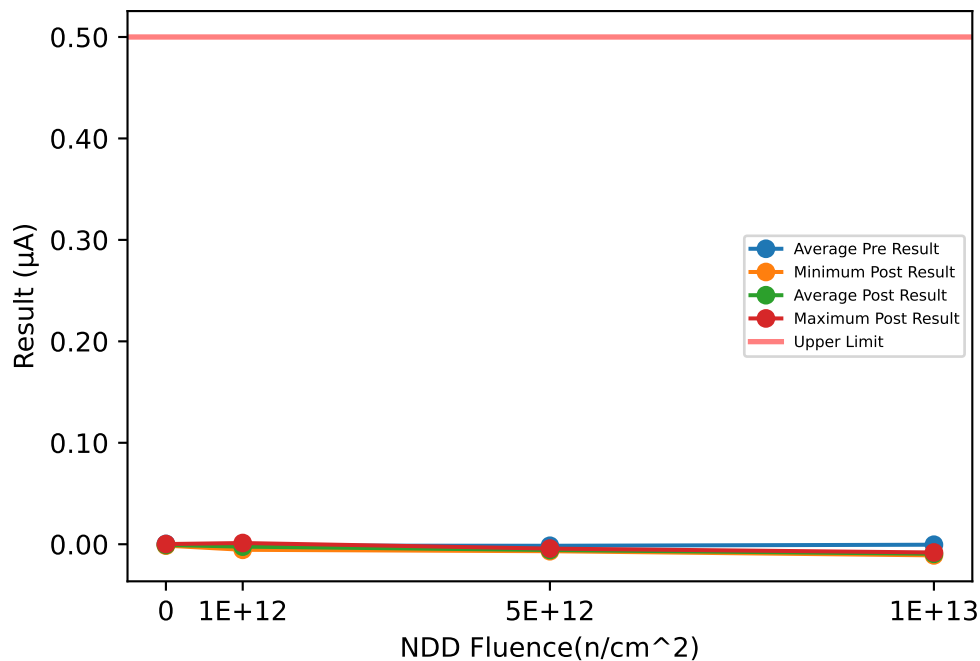


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0028	-0.00086667	0.0002	0.0016773	-0.0041	-0.0015667	0	0.0022143	-0.0043	-0.0007	0.0022	0.0033061
1e+12	-0.0006	-0.0004	-0.0002	0.0002	-0.0045	-0.0029	-0.0018	0.0014177	-0.0039	-0.0025	-0.0016	0.0012288
5e+12	-0.0031	-0.0023333	-0.0013	0.00092916	-0.0071	-0.0053	-0.0035	0.0018	-0.004	-0.0029667	-0.0009	0.0017898
1e+13	-0.0028	-0.0019	-0.0008	0.0010149	-0.0084	-0.0076667	-0.0067	0.00087369	-0.0063	-0.0057667	-0.0051	0.00061101

# Device Test: 5.28 UJ3WW2(IF2\_32V\_UJ3WW2)

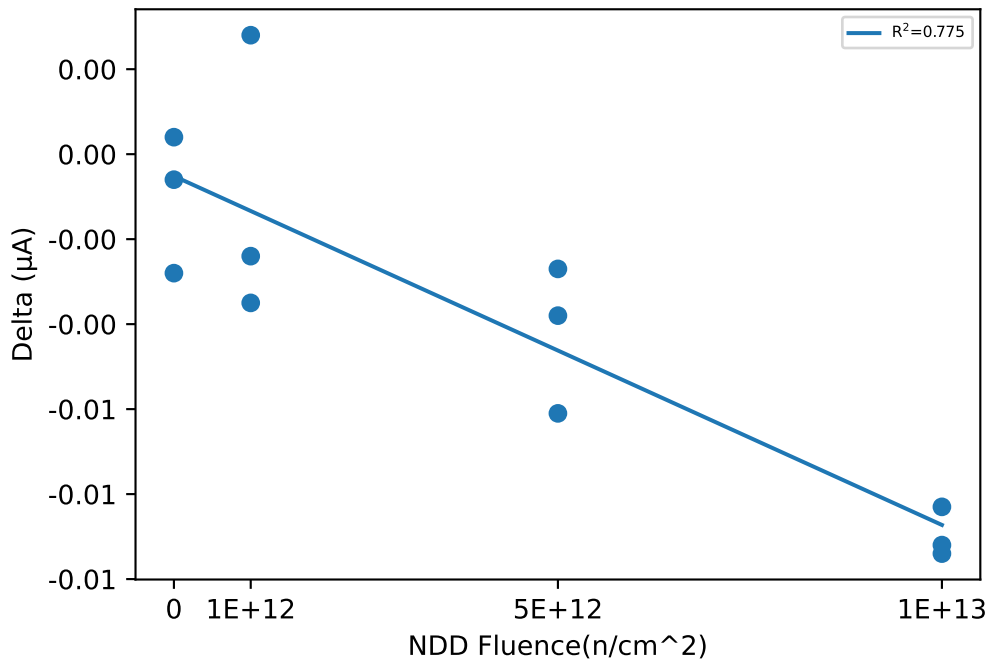
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0016	0.0012	0.0028
2	1e+12	NDD, unbiased	-0.002	-0.0055	-0.0035
3	1e+12	NDD, unbiased	-0.0004	-0.0028	-0.0024
4	5e+12	NDD, unbiased	-0.0031	-0.0069	-0.0038
5	5e+12	NDD, unbiased	-0.0016	-0.0043	-0.0027
6	5e+12	NDD, unbiased	0.0002	-0.0059	-0.0061
7	1e+13	NDD, unbiased	-0.0018	-0.011	-0.0092
8	1e+13	NDD, unbiased	0.0002	-0.0092	-0.0094
9	1e+13	NDD, unbiased	0.0002	-0.0081	-0.0083
10	0	correlation	-0.0014	-0.001	0.0004
11	0	correlation	0.0008	0.0002	-0.0006
12	0	correlation	0.0014	-0.0014	-0.0028

## NDD vs Post - Pre Exposure Delta

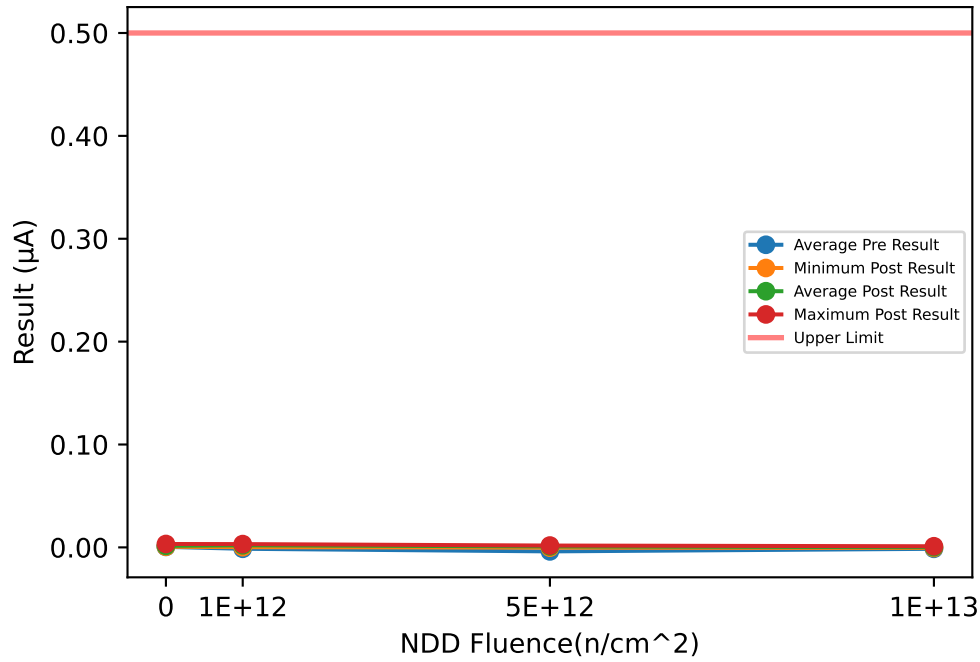


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0014	0.00026667	0.0014	0.0014742	-0.0014	-0.00073333	0.0002	0.00083267	-0.0028	-0.001	0.0004	0.0016371
1e+12	-0.002	-0.0013333	-0.0004	0.00083267	-0.0055	-0.0023667	0.0012	0.003371	-0.0035	-0.0010333	0.0028	0.003365
5e+12	-0.0031	-0.0015	0.0002	0.0016523	-0.0069	-0.0057	-0.0043	0.0013115	-0.0061	-0.0042	-0.0027	0.0017349
1e+13	-0.0018	-0.00046667	0.0002	0.0011547	-0.011	-0.0094333	-0.0081	0.001464	-0.0094	-0.0089667	-0.0083	0.00058595

# Device Test: 5.29 UJ3WW2(IF3\_5V\_UJ3WW2)

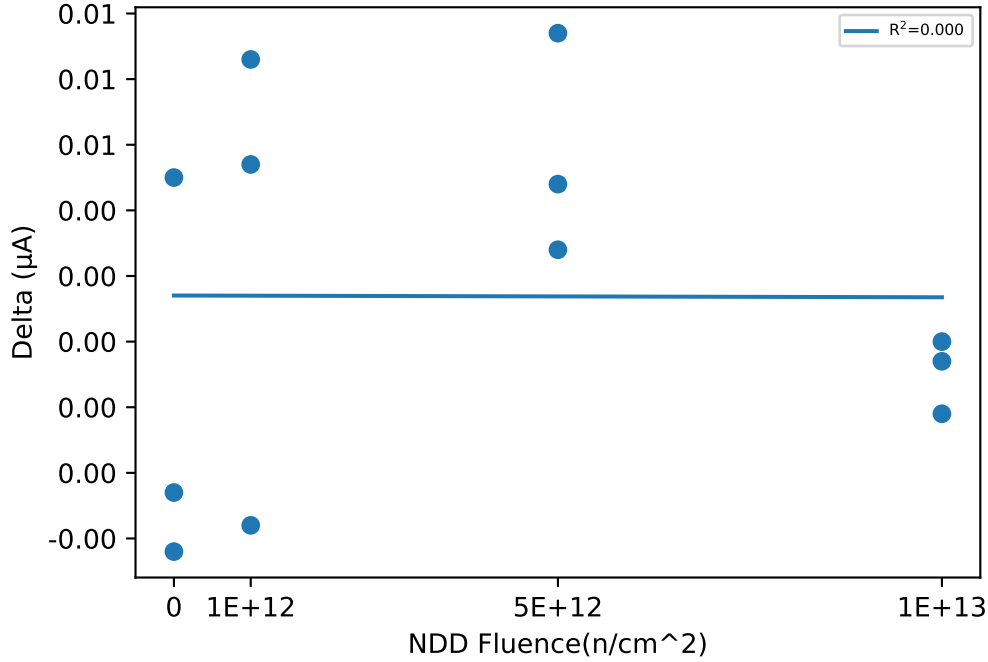
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0036	0.0027	0.0063
2	1e+12	NDD, unbiased	0.001	0.0002	-0.0008
3	1e+12	NDD, unbiased	-0.0015	0.0032	0.0047
4	5e+12	NDD, unbiased	-0.0054	0.0013	0.0067
5	5e+12	NDD, unbiased	-0.0026	0.0018	0.0044
6	5e+12	NDD, unbiased	-0.0037	-0.0003	0.0034
7	1e+13	NDD, unbiased	-0.0009	0.0011	0.002
8	1e+13	NDD, unbiased	-0.0023	-0.0006	0.0017
9	1e+13	NDD, unbiased	-0.001	-0.0001	0.0009
10	0	correlation	-0.0012	0.0033	0.0045
11	0	correlation	0.0018	0.0006	-0.0012
12	0	correlation	0.0009	0.0006	-0.0003

## NDD vs Post - Pre Exposure Delta



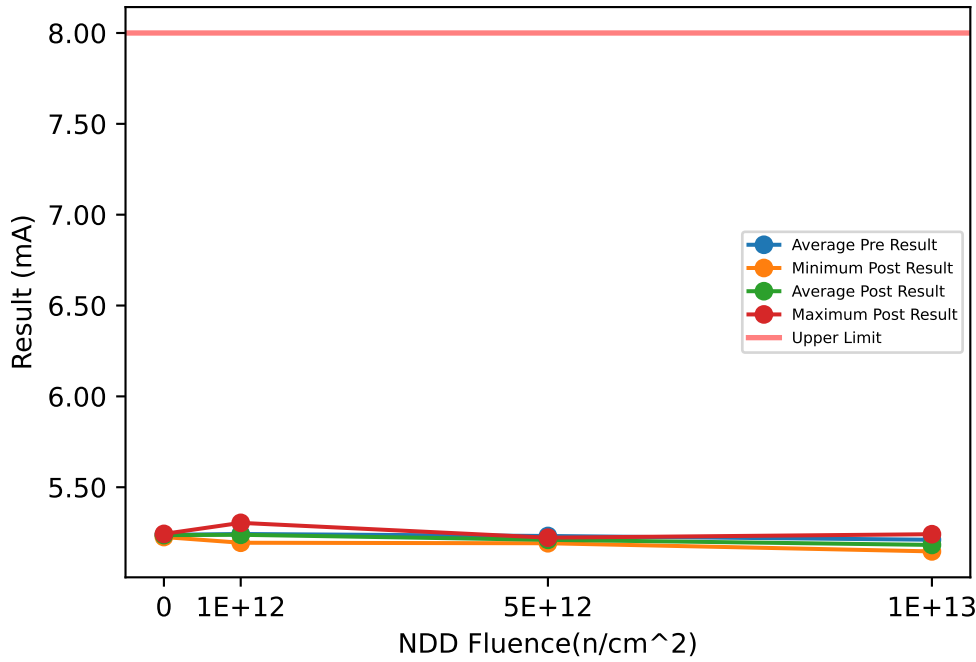
## Test Statistics (µA)

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	-0.0012	0.0005	0.0018	0.0015395	0.0006	0.0015	0.0033	0.0015588	-0.0012	0.001	0.0045	0.0030643
1e+12	-0.0036	-0.0013667	0.001	0.0023029	0.0002	0.0020333	0.0032	0.0016073	-0.0008	0.0034	0.0063	0.0037242
5e+12	-0.0054	-0.0039	-0.0026	0.0014107	-0.0003	0.00093333	0.0018	0.001097	0.0034	0.0048333	0.0067	0.0016921
1e+13	-0.0023	-0.0014	-0.0009	0.00078102	-0.0006	0.00013333	0.0011	0.00087369	0.0009	0.0015333	0.002	0.00056862



# Device Test: 5.3 UJTKLS(Iop\_28V\_UJTKLS)

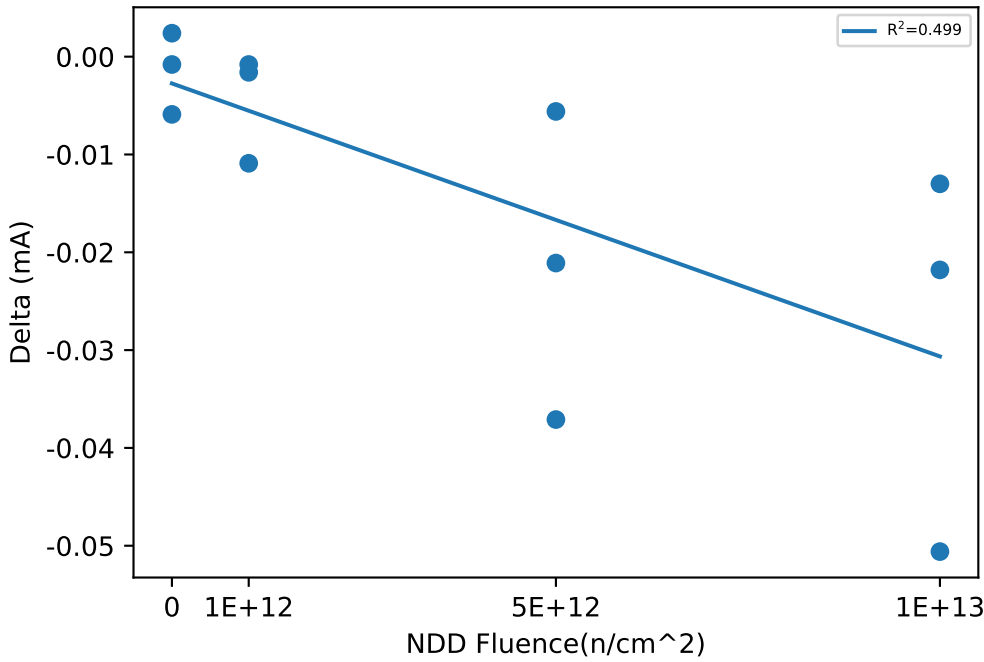
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	5.2178	5.2162	-0.0016
2	1e+12	NDD, unbiased	5.3047	5.3039	-0.0008
3	1e+12	NDD, unbiased	5.2053	5.1944	-0.0109
4	5e+12	NDD, unbiased	5.2434	5.2223	-0.0211
5	5e+12	NDD, unbiased	5.2287	5.1916	-0.0371
6	5e+12	NDD, unbiased	5.223	5.2174	-0.0056
7	1e+13	NDD, unbiased	5.2632	5.2414	-0.0218
8	1e+13	NDD, unbiased	5.1974	5.1468	-0.0506
9	1e+13	NDD, unbiased	5.172	5.159	-0.013
10	0	correlation	5.2234	5.2258	0.0024
11	0	correlation	5.2439	5.2431	-0.0008
12	0	correlation	5.2461	5.2402	-0.0059

## NDD vs Post - Pre Exposure Delta

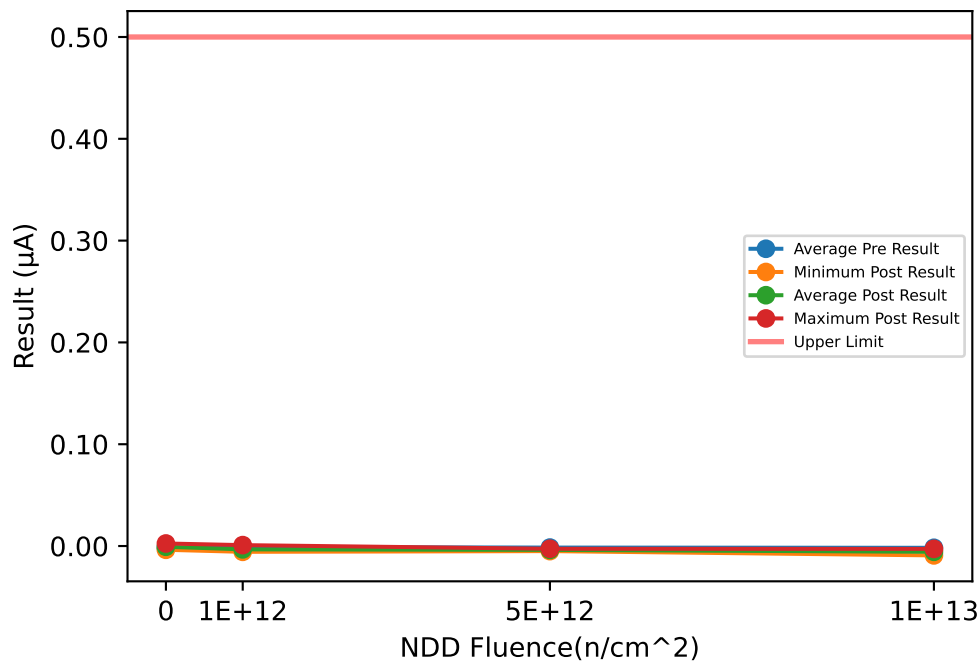


## Test Statistics (mA)

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	5.2234	5.2378	5.2461	0.012519	5.2258	5.2364	5.2431	0.0092652	-0.0059	-0.0014333	0.0024	0.0041861
1e+12	5.2053	5.2426	5.3047	0.054142	5.1944	5.2382	5.3039	0.057961	-0.0109	-0.0044333	-0.0008	0.0056146
5e+12	5.223	5.2317	5.2434	0.010526	5.1916	5.2104	5.2223	0.016493	-0.0371	-0.021267	-0.0056	0.015751
1e+13	5.172	5.2109	5.2632	0.047068	5.1468	5.1824	5.2414	0.051458	-0.0506	-0.028467	-0.013	0.019667

# Device Test: 5.30 UJ3WW2(IF3\_12V\_UJ3WW2)

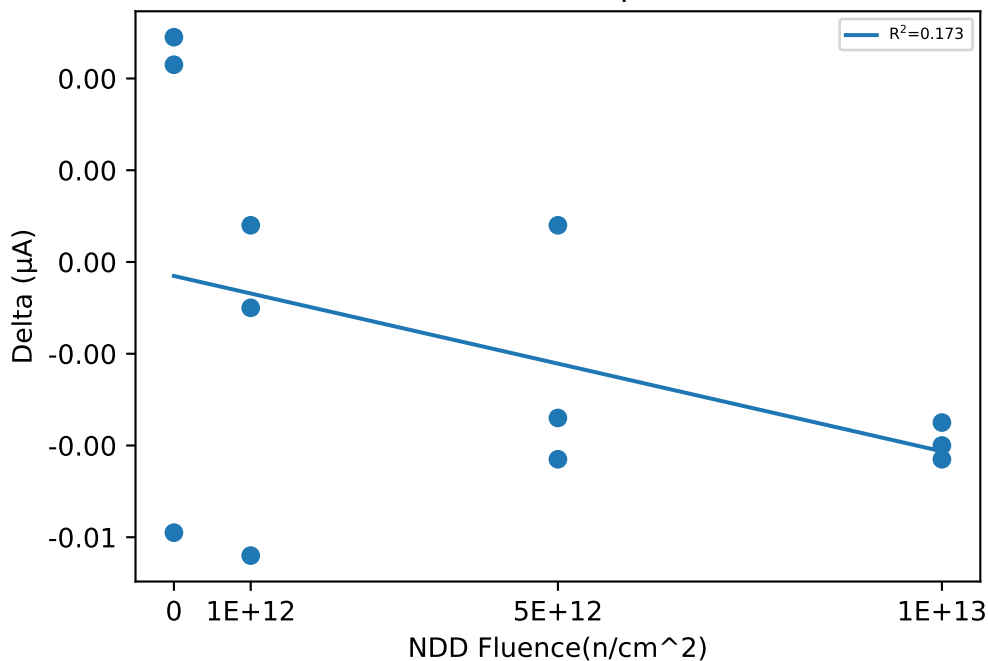
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0001	0.0009	0.0008
2	1e+12	NDD, unbiased	-0.0047	-0.0057	-0.001
3	1e+12	NDD, unbiased	0.0014	-0.005	-0.0064
4	5e+12	NDD, unbiased	-0.0007	-0.005	-0.0043
5	5e+12	NDD, unbiased	0.0007	-0.0027	-0.0034
6	5e+12	NDD, unbiased	-0.0045	-0.0037	0.0008
7	1e+13	NDD, unbiased	-0.0007	-0.005	-0.0043
8	1e+13	NDD, unbiased	-0.0052	-0.0092	-0.004
9	1e+13	NDD, unbiased	0.0007	-0.0028	-0.0035
10	0	correlation	-0.0018	0.0025	0.0043
11	0	correlation	0.0022	-0.0037	-0.0059
12	0	correlation	-0.0058	-0.0009	0.0049

## NDD vs Post - Pre Exposure Delta

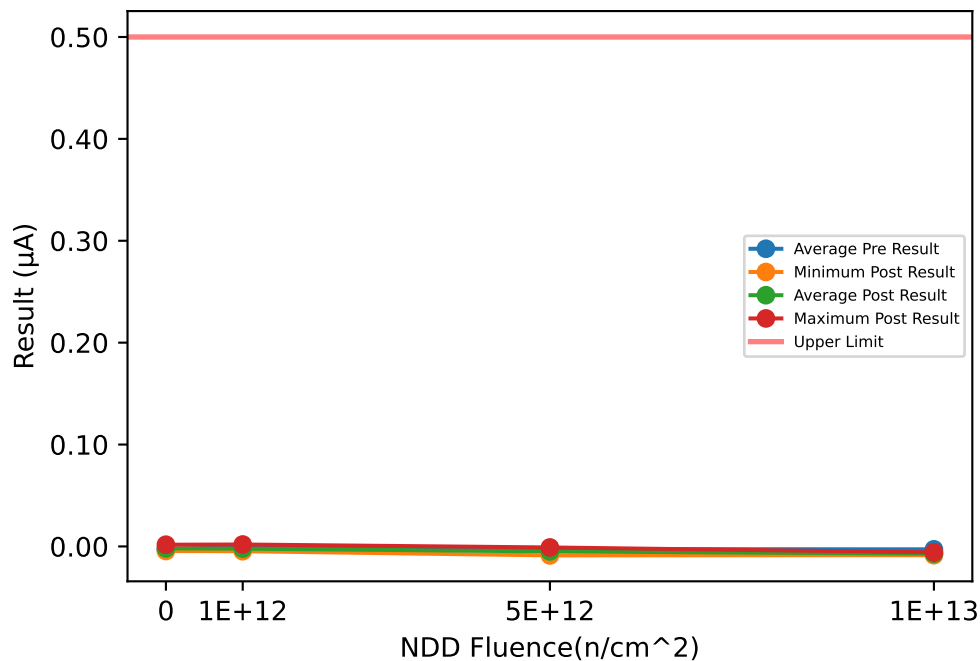


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0058	-0.0018	0.0022	0.004	-0.0037	-0.0007	0.0025	0.0031048	-0.0059	0.0011	0.0049	0.0060696
1e+12	-0.0047	-0.0010667	0.0014	0.003213	-0.0057	-0.0032667	0.0009	0.0036254	-0.0064	-0.0022	0.0008	0.003747
5e+12	-0.0045	-0.0015	0.0007	0.0026907	-0.005	-0.0038	-0.0027	0.0011533	-0.0043	-0.0023	0.0008	0.0027221
1e+13	-0.0052	-0.0017333	0.0007	0.0030827	-0.0092	-0.0056667	-0.0028	0.0032517	-0.0043	-0.0039333	-0.0035	0.00040415

# Device Test: 5.31 UJ3WW2(IF3\_28V\_UJ3WW2)

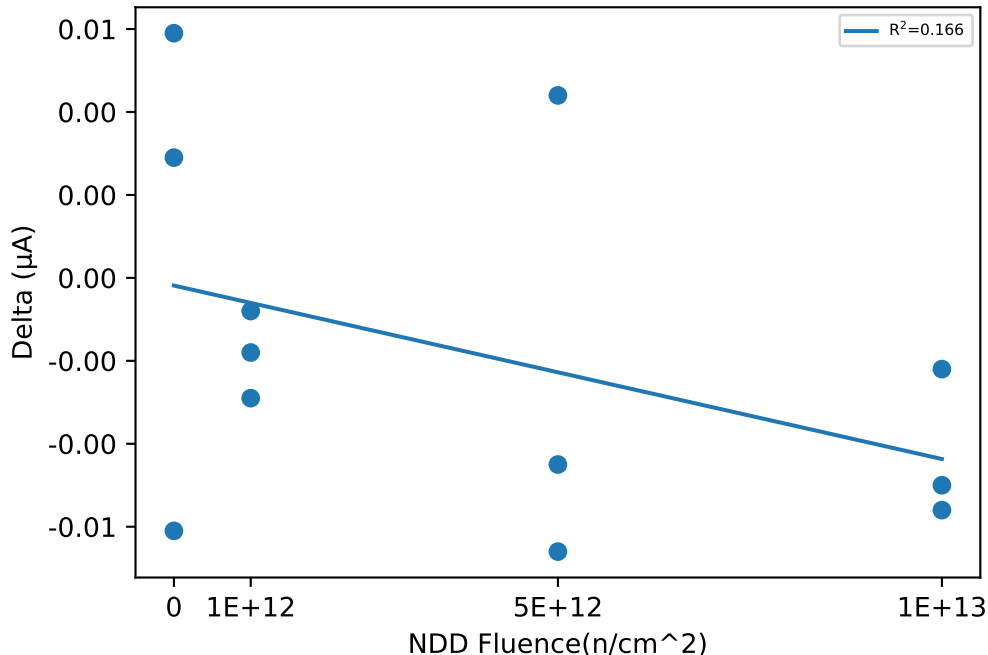
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0037	0.0019	-0.0018
2	1e+12	NDD, unbiased	-0.0008	-0.0037	-0.0029
3	1e+12	NDD, unbiased	-0.0039	-0.0047	-0.0008
4	5e+12	NDD, unbiased	-0.0054	-0.001	0.0044
5	5e+12	NDD, unbiased	-0.0004	-0.0049	-0.0045
6	5e+12	NDD, unbiased	-0.0022	-0.0088	-0.0066
7	1e+13	NDD, unbiased	-0.0013	-0.0069	-0.0056
8	1e+13	NDD, unbiased	-0.0064	-0.0086	-0.0022
9	1e+13	NDD, unbiased	-0.0008	-0.0058	-0.005
10	0	correlation	-0.0012	0.0017	0.0029
11	0	correlation	0.0016	-0.0045	-0.0061
12	0	correlation	-0.0088	-0.0029	0.0059

## NDD vs Post - Pre Exposure Delta

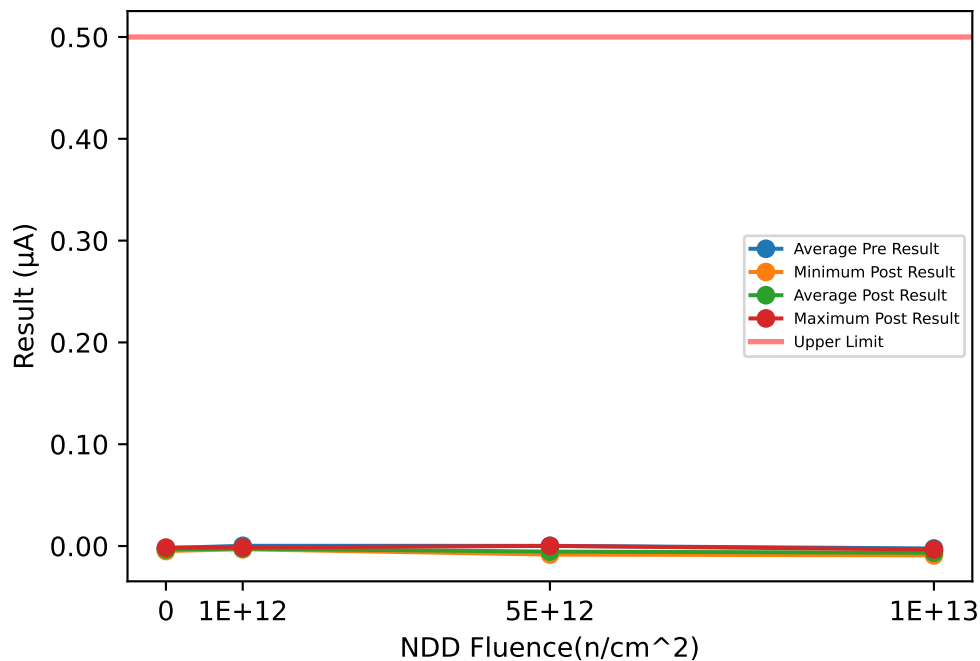


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0088	-0.0028	0.0016	0.0053814	-0.0045	-0.0019	0.0017	0.0032187	-0.0061	0.0009	0.0059	0.006245
1e+12	-0.0039	-0.00033333	0.0037	0.0038214	-0.0047	-0.0021667	0.0019	0.0035572	-0.0029	-0.0018333	-0.0008	0.0010504
5e+12	-0.0054	-0.0026667	-0.0004	0.0025325	-0.0088	-0.0049	-0.001	0.0039	-0.0066	-0.0022333	0.0044	0.0058398
1e+13	-0.0064	-0.0028333	-0.0008	0.0030989	-0.0086	-0.0071	-0.0058	0.0014107	-0.0056	-0.0042667	-0.0022	0.0018148

# Device Test: 5.32 UJ3WW2(IF3\_32V\_UJ3WW2)

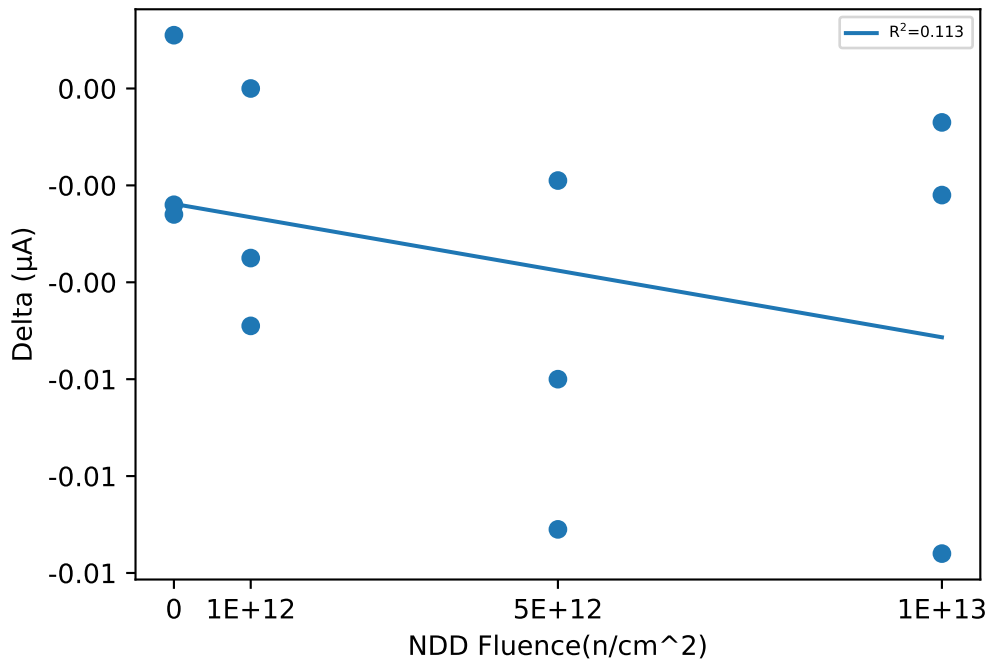
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0003	-0.0032	-0.0035
2	1e+12	NDD, unbiased	-0.0014	-0.0014	0
3	1e+12	NDD, unbiased	0.0018	-0.0031	-0.0049
4	5e+12	NDD, unbiased	0.002	0.0001	-0.0019
5	5e+12	NDD, unbiased	0.0009	-0.0082	-0.0091
6	5e+12	NDD, unbiased	-0.0024	-0.0084	-0.006
7	1e+13	NDD, unbiased	-0.0027	-0.0034	-0.0007
8	1e+13	NDD, unbiased	-0.007	-0.0092	-0.0022
9	1e+13	NDD, unbiased	0.0025	-0.0071	-0.0096
10	0	correlation	-0.0027	-0.0016	0.0011
11	0	correlation	-0.0023	-0.0049	-0.0026
12	0	correlation	-0.0011	-0.0035	-0.0024

## NDD vs Post - Pre Exposure Delta

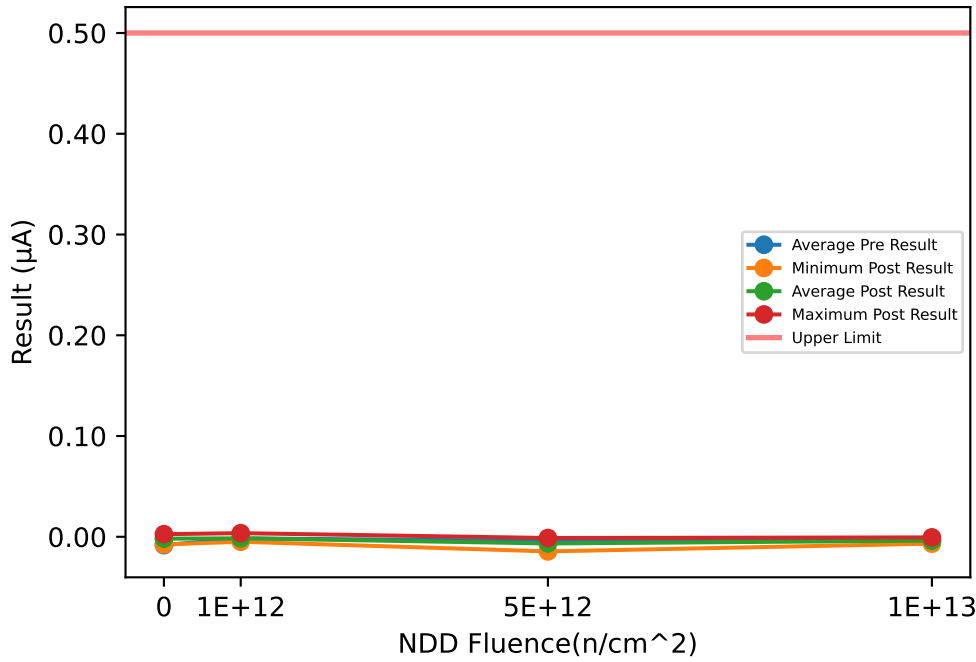


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0027	-0.0020333	-0.0011	0.00083267	-0.0049	-0.0033333	-0.0016	0.0016563	-0.0026	-0.0013	0.0011	0.0020809
1e+12	-0.0014	0.00023333	0.0018	0.001601	-0.0032	-0.0025667	-0.0014	0.0010116	-0.0049	-0.0028	0	0.0025239
5e+12	-0.0024	0.00016667	0.002	0.0022898	-0.0084	-0.0055	0.0001	0.0048508	-0.0091	-0.0056667	-0.0019	0.0036116
1e+13	-0.007	-0.0024	0.0025	0.0047571	-0.0092	-0.0065667	-0.0034	0.0029366	-0.0096	-0.0041667	-0.0007	0.0047648

# Device Test: 5.33 UJ3WW2(IF4\_5V\_UJ3WW2)

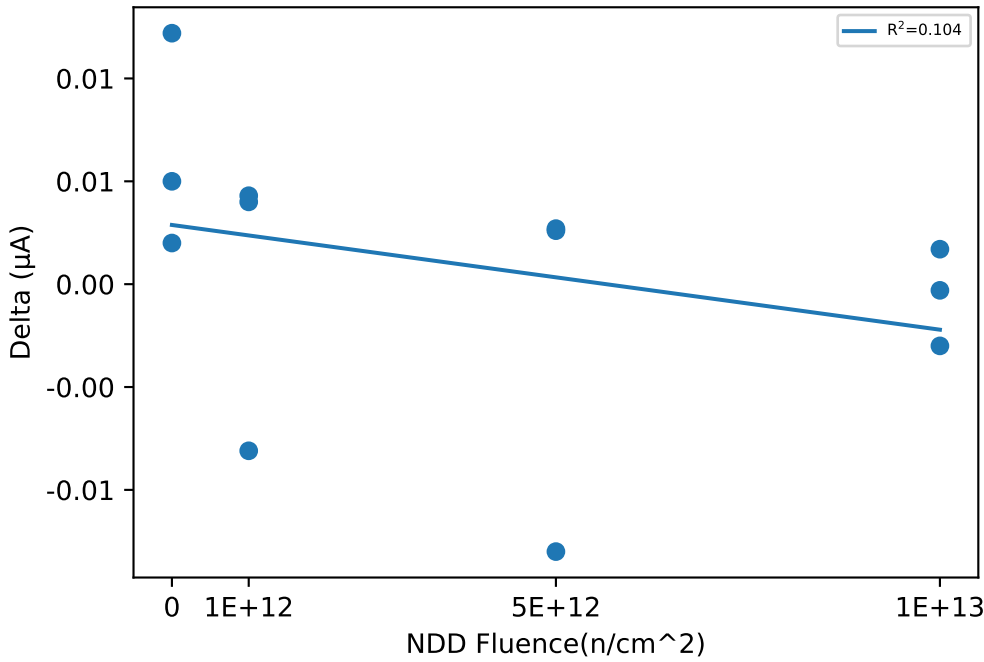
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0032	-0.0049	-0.0081
2	1e+12	NDD, unbiased	-0.0072	-0.0032	0.004
3	1e+12	NDD, unbiased	-0.0007	0.0036	0.0043
4	5e+12	NDD, unbiased	-0.0038	-0.0012	0.0026
5	5e+12	NDD, unbiased	-0.0069	-0.0042	0.0027
6	5e+12	NDD, unbiased	-0.0015	-0.0145	-0.013
7	1e+13	NDD, unbiased	-0.0011	-0.0041	-0.003
8	1e+13	NDD, unbiased	-0.0065	-0.0068	-0.0003
9	1e+13	NDD, unbiased	-0.0023	-0.0006	0.0017
10	0	correlation	-0.0056	-0.0006	0.005
11	0	correlation	-0.0096	-0.0076	0.002
12	0	correlation	-0.0096	0.0026	0.0122

## NDD vs Post - Pre Exposure Delta

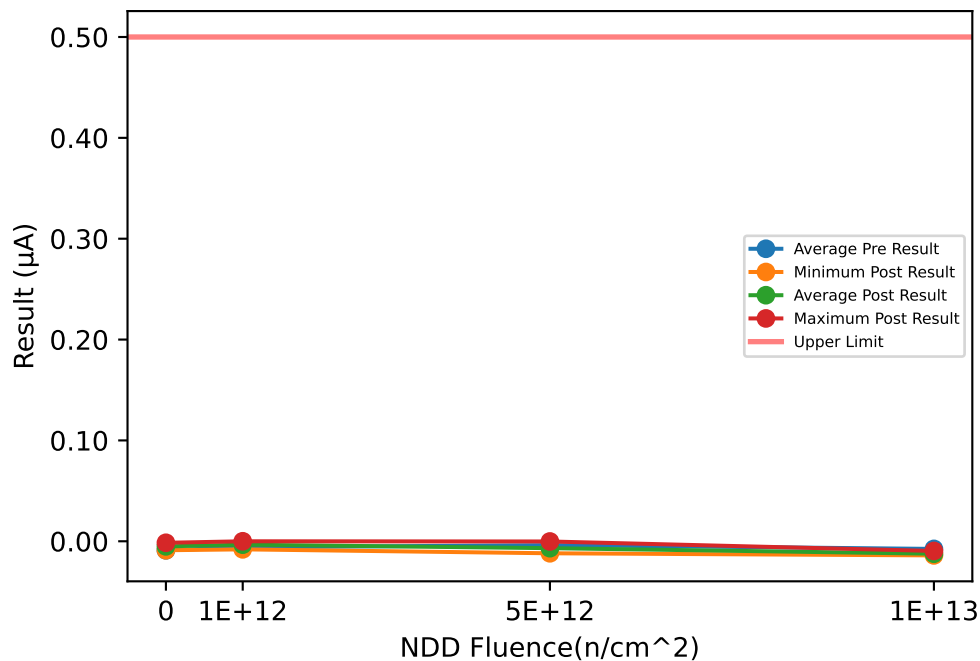


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0096	-0.0082667	-0.0056	0.0023094	-0.0076	-0.0018667	0.0026	0.0052166	0.002	0.0064	0.0122	0.0052421
1e+12	-0.0072	-0.0015667	0.0032	0.0052539	-0.0049	-0.0015	0.0036	0.0044978	-0.0081	6.6667e-05	0.0043	0.0070741
5e+12	-0.0069	-0.0040667	-0.0015	0.0027099	-0.0145	-0.0066333	-0.0012	0.0069759	-0.013	-0.0025667	0.0027	0.0090357
1e+13	-0.0065	-0.0033	-0.0011	0.0028355	-0.0068	-0.0038333	-0.0006	0.0031086	-0.003	-0.00053333	0.0017	0.0023587

# Device Test: 5.34 UJ3WW2(IF4\_12V\_UJ3WW2)

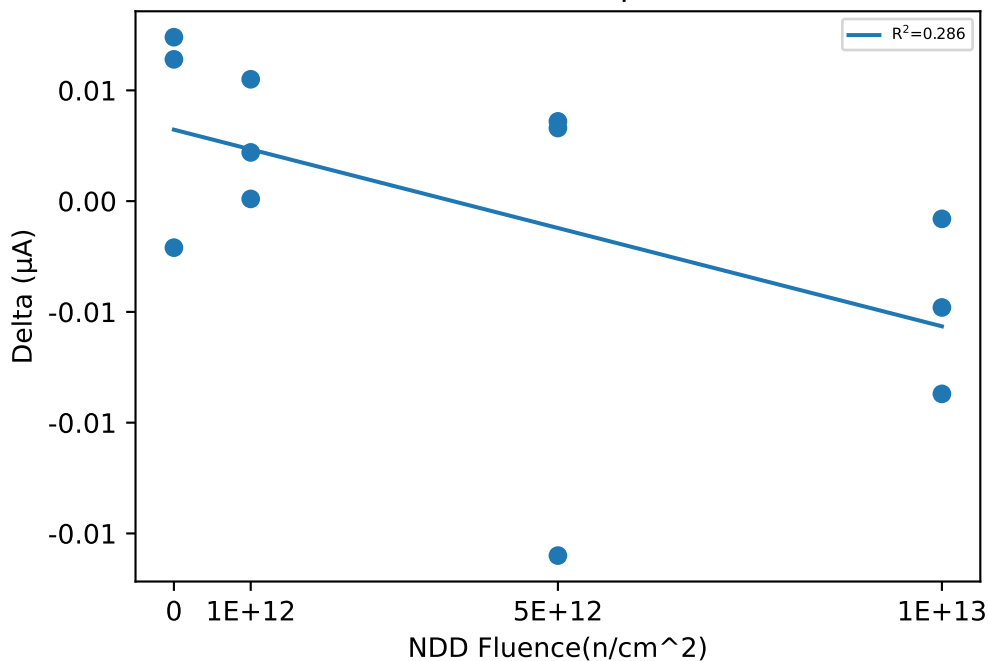
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0043	-0.0021	0.0022
2	1e+12	NDD, unbiased	-0.0081	-0.008	0.0001
3	1e+12	NDD, unbiased	-0.0055	0	0.0055
4	5e+12	NDD, unbiased	-0.0038	-0.0002	0.0036
5	5e+12	NDD, unbiased	0.0041	-0.0119	-0.016
6	5e+12	NDD, unbiased	-0.0117	-0.0084	0.0033
7	1e+13	NDD, unbiased	-0.0088	-0.0096	-0.0008
8	1e+13	NDD, unbiased	-0.0053	-0.014	-0.0087
9	1e+13	NDD, unbiased	-0.0086	-0.0134	-0.0048
10	0	correlation	-0.0121	-0.0047	0.0074
11	0	correlation	-0.0068	-0.0089	-0.0021
12	0	correlation	-0.0079	-0.0015	0.0064

## NDD vs Post - Pre Exposure Delta

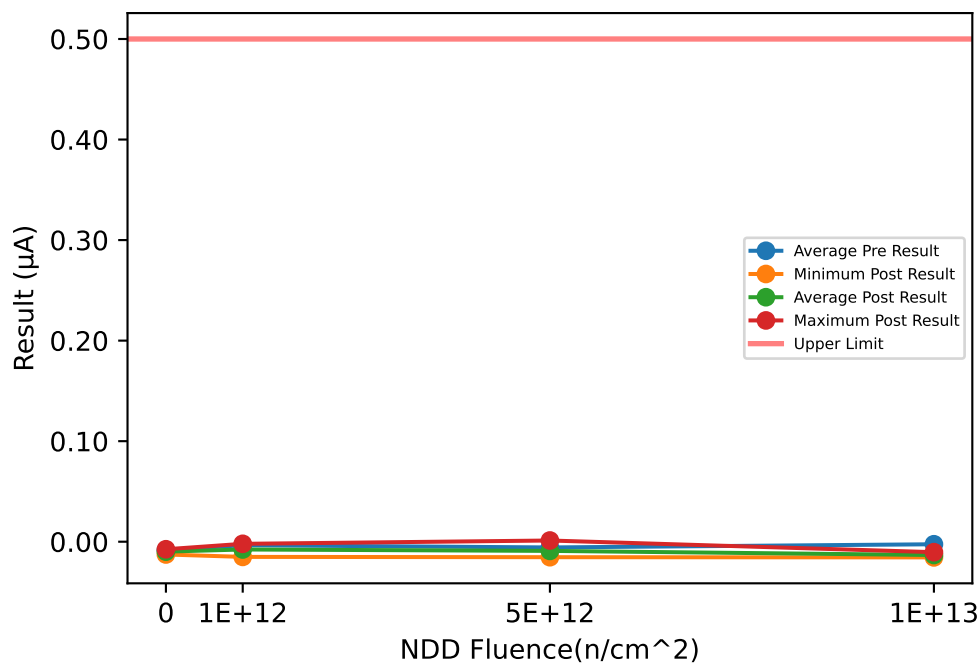


## Test Statistics (µA)

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	-0.0121	-0.0089333	-0.0068	0.002797	-0.0089	-0.0050333	-0.0015	0.0037112	-0.0021	0.0039	0.0074	0.0052202
1e+12	-0.0081	-0.0059667	-0.0043	0.0019425	-0.008	-0.0033667	0	0.0041477	0.0001	0.0026	0.0055	0.0027221
5e+12	-0.0117	-0.0038	0.0041	0.0079	-0.0119	-0.0068333	-0.0002	0.0060053	-0.016	-0.0030333	0.0036	0.01123
1e+13	-0.0088	-0.0075667	-0.0053	0.0019655	-0.014	-0.012333	-0.0096	0.0023861	-0.0087	-0.0047667	-0.0008	0.0039501

# Device Test: 5.35 UJ3WW2(IF4\_28V\_UJ3WW2)

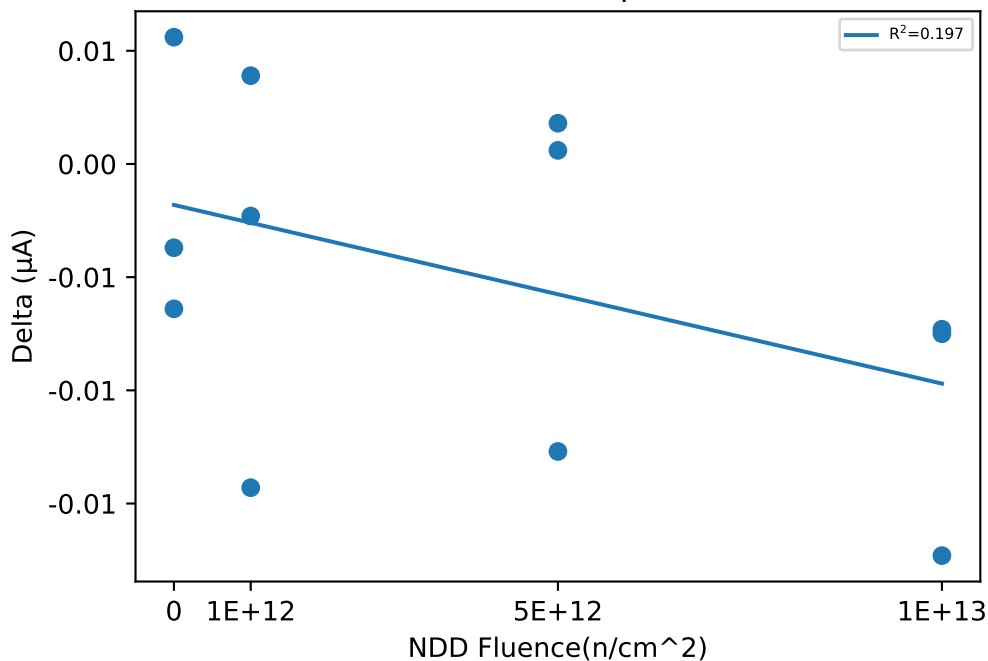
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0008	-0.0151	-0.0143
2	1e+12	NDD, unbiased	-0.0099	-0.006	0.0039
3	1e+12	NDD, unbiased	0.0002	-0.0021	-0.0023
4	5e+12	NDD, unbiased	-0.0006	0.0012	0.0018
5	5e+12	NDD, unbiased	-0.0027	-0.0154	-0.0127
6	5e+12	NDD, unbiased	-0.0138	-0.0132	0.0006
7	1e+13	NDD, unbiased	-0.0031	-0.0104	-0.0073
8	1e+13	NDD, unbiased	-0.0081	-0.0156	-0.0075
9	1e+13	NDD, unbiased	0.0036	-0.0137	-0.0173
10	0	correlation	-0.0131	-0.0075	0.0056
11	0	correlation	-0.0063	-0.0127	-0.0064
12	0	correlation	-0.0057	-0.0094	-0.0037

## NDD vs Post - Pre Exposure Delta

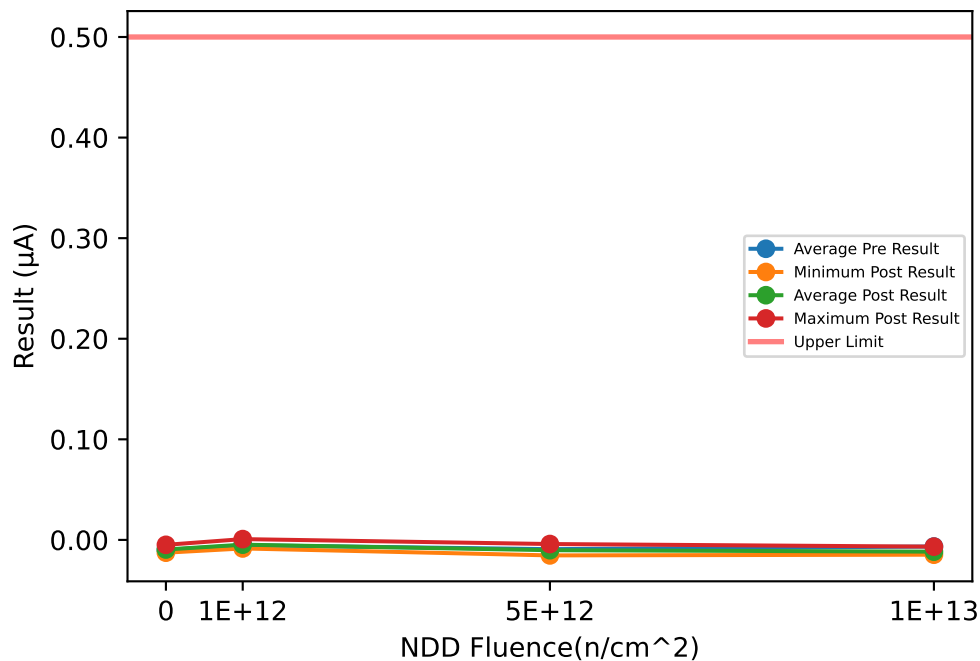


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0131	-0.0083667	-0.0057	0.0041102	-0.0127	-0.0098667	-0.0075	0.0026312	-0.0064	-0.0015	0.0056	0.0062952
1e+12	-0.0099	-0.0035	0.0002	0.0055651	-0.0151	-0.0077333	-0.0021	0.0066711	-0.0143	-0.0042333	0.0039	0.0092527
5e+12	-0.0138	-0.0057	-0.0006	0.007093	-0.0154	-0.0091333	0.0012	0.0090163	-0.0127	-0.0034333	0.0018	0.0080476
1e+13	-0.0081	-0.0025333	0.0036	0.0058705	-0.0156	-0.013233	-0.0104	0.0026312	-0.0173	-0.0107	-0.0073	0.0057166

# Device Test: 5.36 UJ3WW2(IF4\_32V\_UJ3WW2)

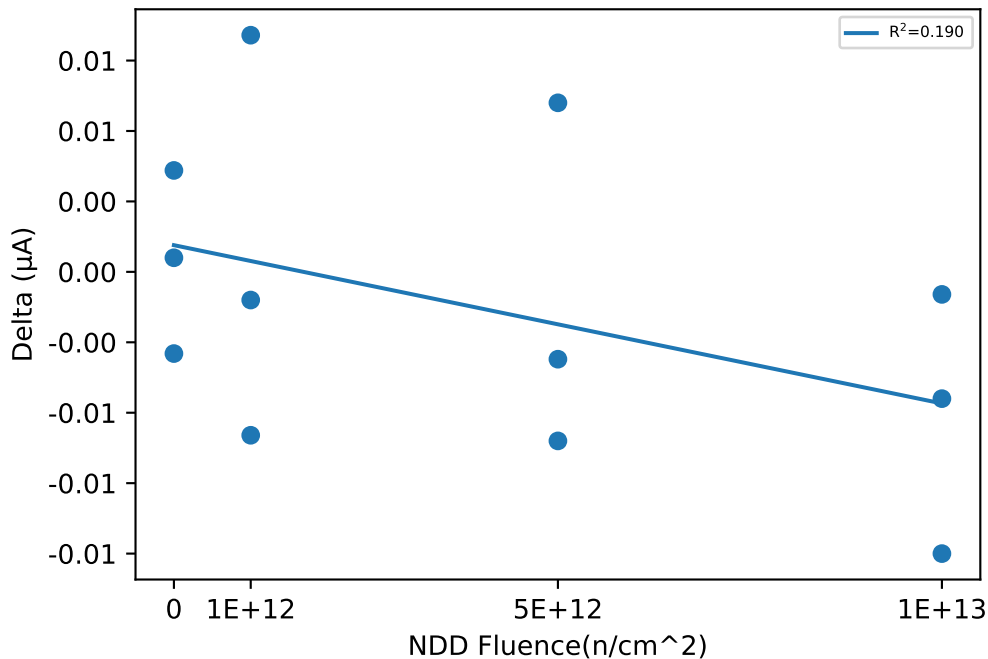
## NDD vs Result Stats



## Test Results (Upper Limit = 0.5 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	-0.0055	-0.0065	-0.001
2	1e+12	NDD, unbiased	-0.0027	-0.0085	-0.0058
3	1e+12	NDD, unbiased	-0.0076	0.0008	0.0084
4	5e+12	NDD, unbiased	-0.0081	-0.0112	-0.0031
5	5e+12	NDD, unbiased	-0.0094	-0.0154	-0.006
6	5e+12	NDD, unbiased	-0.0101	-0.0041	0.006
7	1e+13	NDD, unbiased	-0.0059	-0.0067	-0.0008
8	1e+13	NDD, unbiased	-0.0091	-0.0136	-0.0045
9	1e+13	NDD, unbiased	-0.0047	-0.0147	-0.01
10	0	correlation	-0.0115	-0.011	0.0005
11	0	correlation	-0.0098	-0.0127	-0.0029
12	0	correlation	-0.0085	-0.0049	0.0036

## NDD vs Post - Pre Exposure Delta



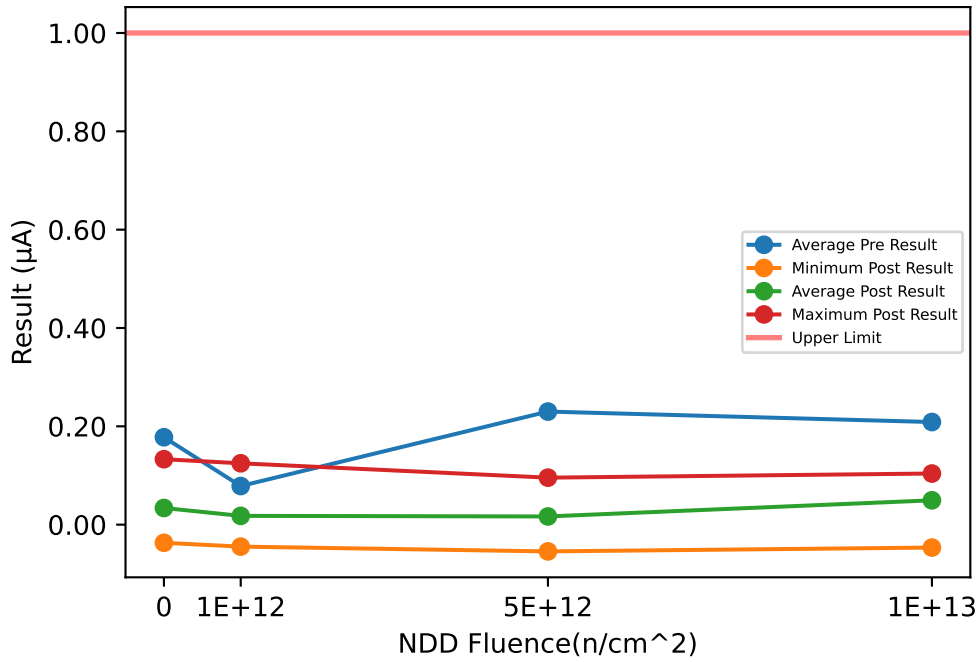
## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0115	-0.0099333	-0.0085	0.0015044	-0.0127	-0.0095333	-0.0049	0.0041016	-0.0029	0.0004	0.0036	0.0032512
1e+12	-0.0076	-0.0052667	-0.0027	0.0024583	-0.0085	-0.0047333	0.0008	0.0048952	-0.0058	0.00053333	0.0084	0.0072231
5e+12	-0.0101	-0.0092	-0.0081	0.0010149	-0.0154	-0.010233	-0.0041	0.0057117	-0.006	-0.0010333	0.006	0.0062613
1e+13	-0.0091	-0.0065667	-0.0047	0.0022745	-0.0147	-0.011667	-0.0067	0.0043363	-0.01	-0.0051	-0.0008	0.0046293



# Device Test: 5.37 UJXYSN(loutleak\_5V\_UJXYSN)

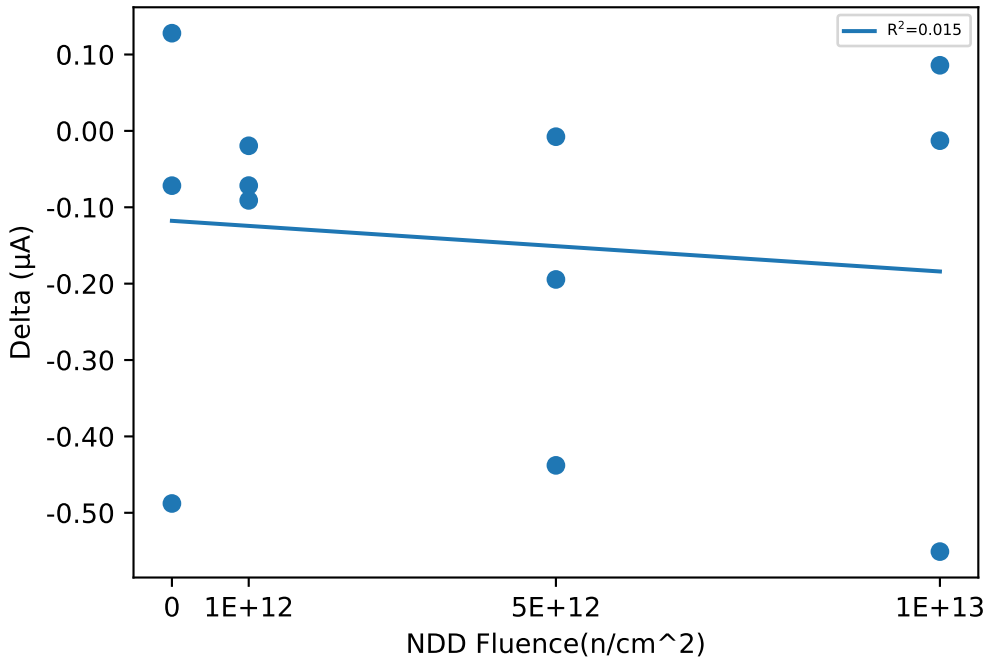
## NDD vs Result Stats



## Test Results (Upper Limit = 1.0 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.1443	0.1248	-0.0195
2	1e+12	NDD, unbiased	0.0269	-0.0447	-0.0716
3	1e+12	NDD, unbiased	0.0645	-0.0265	-0.091
4	5e+12	NDD, unbiased	0.5335	0.0956	-0.4379
5	5e+12	NDD, unbiased	0.1401	-0.0544	-0.1945
6	5e+12	NDD, unbiased	0.0164	0.0088	-0.0076
7	1e+13	NDD, unbiased	0.0181	0.104	0.0859
8	1e+13	NDD, unbiased	0.5042	-0.0466	-0.5508
9	1e+13	NDD, unbiased	0.1039	0.0911	-0.0128
10	0	correlation	0.0052	0.1331	0.1279
11	0	correlation	0.0348	-0.0369	-0.0717
12	0	correlation	0.4933	0.0055	-0.4878

## NDD vs Post - Pre Exposure Delta

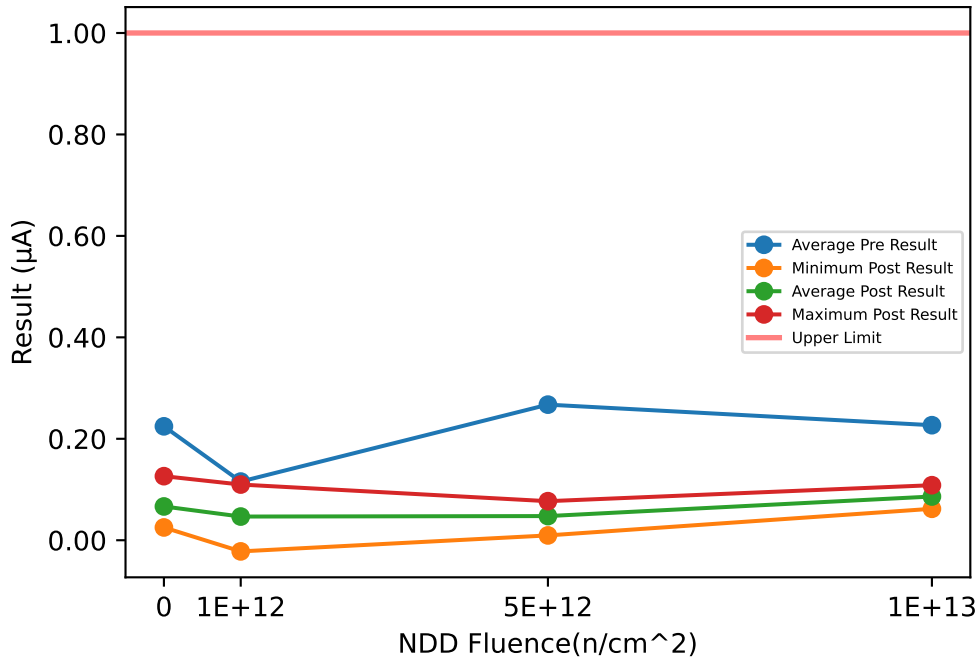


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0052	0.17777	0.4933	0.27366	-0.0369	0.0339	0.1331	0.088487	-0.4878	-0.14387	0.1279	0.31413
1e+12	0.0269	0.078567	0.1443	0.059951	-0.0447	0.017867	0.1248	0.093053	-0.091	-0.0607	-0.0195	0.036975
5e+12	0.0164	0.23	0.5335	0.27002	-0.0544	0.016667	0.0956	0.075309	-0.4379	-0.21333	-0.0076	0.21577
1e+13	0.0181	0.20873	0.5042	0.25945	-0.0466	0.0495	0.104	0.083475	-0.5508	-0.15923	0.0859	0.34268

# Device Test: 5.38 UJXYSN(loutleak\_12V\_UJXYSN)

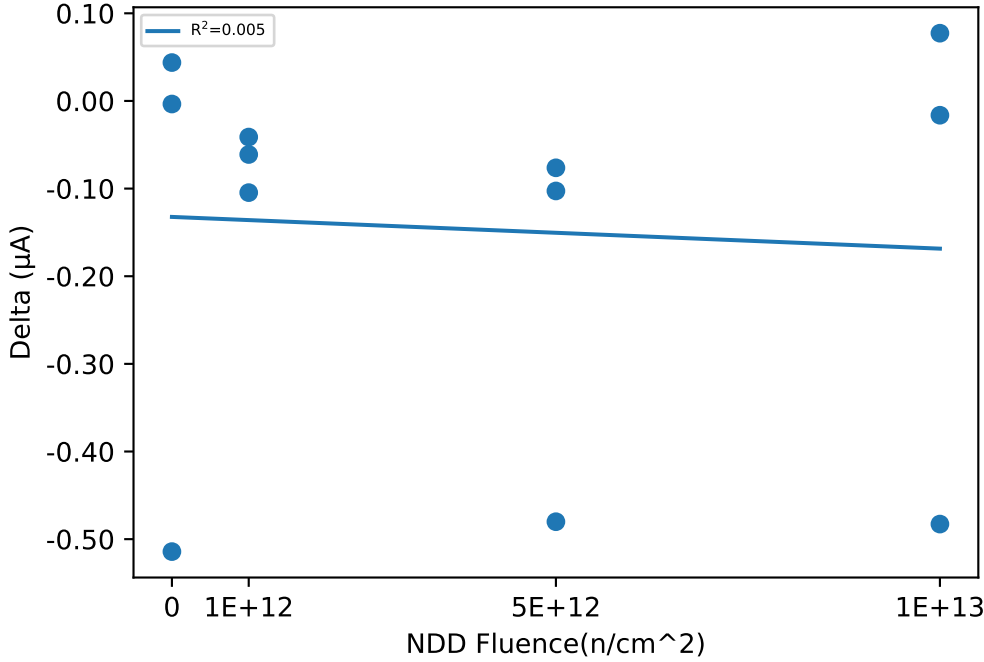
## NDD vs Result Stats



## Test Results (Upper Limit = 1.0 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.151	0.1098	-0.0412
2	1e+12	NDD, unbiased	0.1134	0.0523	-0.0611
3	1e+12	NDD, unbiased	0.0826	-0.022	-0.1046
4	5e+12	NDD, unbiased	0.5571	0.077	-0.4801
5	5e+12	NDD, unbiased	0.1327	0.0564	-0.0763
6	5e+12	NDD, unbiased	0.1122	0.0095	-0.1027
7	1e+13	NDD, unbiased	0.0312	0.1085	0.0773
8	1e+13	NDD, unbiased	0.5448	0.062	-0.4828
9	1e+13	NDD, unbiased	0.1044	0.0881	-0.0163
10	0	correlation	0.0825	0.1263	0.0438
11	0	correlation	0.0518	0.0483	-0.0035
12	0	correlation	0.5394	0.0252	-0.5142

## NDD vs Post - Pre Exposure Delta

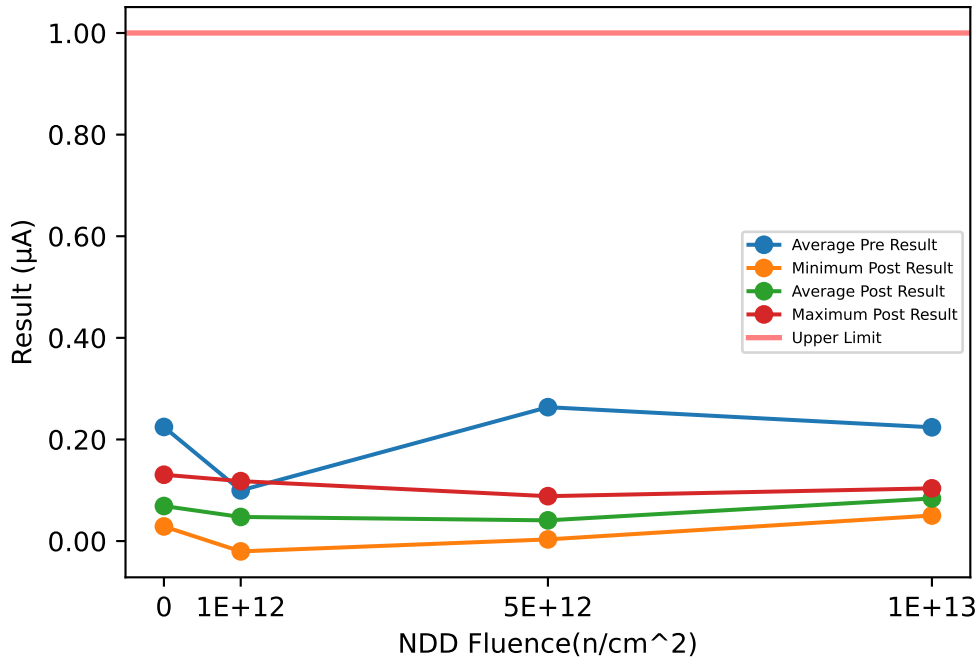


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0518	0.22457	0.5394	0.27309	0.0252	0.0666	0.1263	0.052976	-0.5142	-0.15797	0.0438	0.30941
1e+12	0.0826	0.11567	0.151	0.034256	-0.022	0.0467	0.1098	0.066078	-0.1046	-0.068967	-0.0412	0.032424
5e+12	0.1122	0.26733	0.5571	0.25115	0.0095	0.047633	0.077	0.034593	-0.4801	-0.2197	-0.0763	0.2259
1e+13	0.0312	0.2268	0.5448	0.27782	0.062	0.0862	0.1085	0.023308	-0.4828	-0.1406	0.0773	0.30003

# Device Test: 5.39 UJXYSN(loutleak\_28V\_UJXYSN)

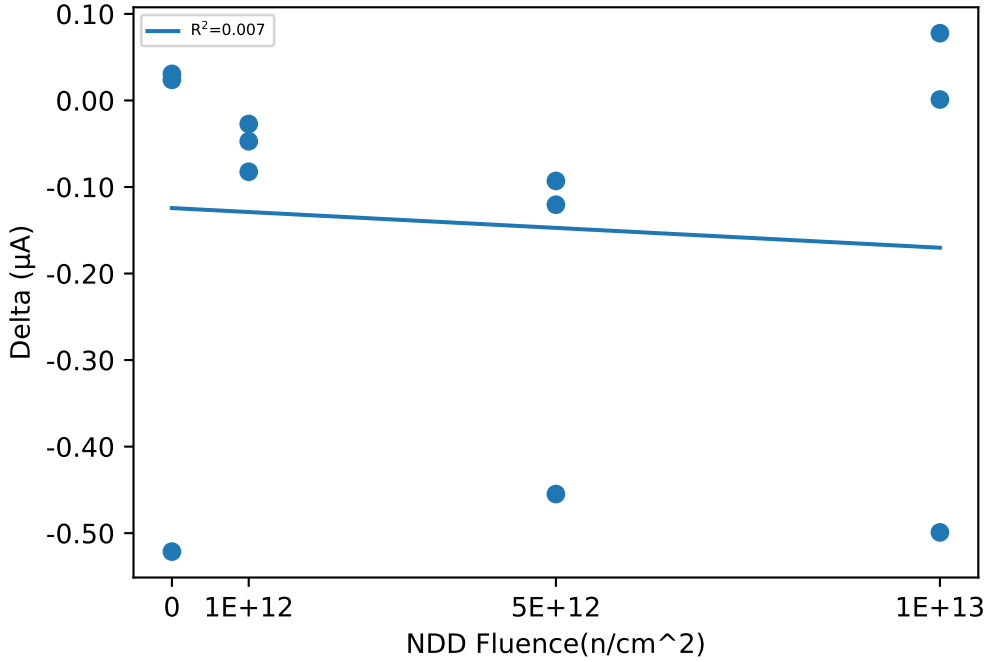
## NDD vs Result Stats



## Test Results (Upper Limit = 1.0 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.1452	0.118	-0.0272
2	1e+12	NDD, unbiased	0.0919	0.0447	-0.0472
3	1e+12	NDD, unbiased	0.0621	-0.0203	-0.0824
4	5e+12	NDD, unbiased	0.5432	0.0884	-0.4548
5	5e+12	NDD, unbiased	0.1237	0.0307	-0.093
6	5e+12	NDD, unbiased	0.1238	0.0033	-0.1205
7	1e+13	NDD, unbiased	0.0261	0.1038	0.0777
8	1e+13	NDD, unbiased	0.5494	0.0503	-0.4991
9	1e+13	NDD, unbiased	0.0964	0.0975	0.0011
10	0	correlation	0.0999	0.1306	0.0307
11	0	correlation	0.0238	0.0476	0.0238
12	0	correlation	0.5501	0.0288	-0.5213

## NDD vs Post - Pre Exposure Delta

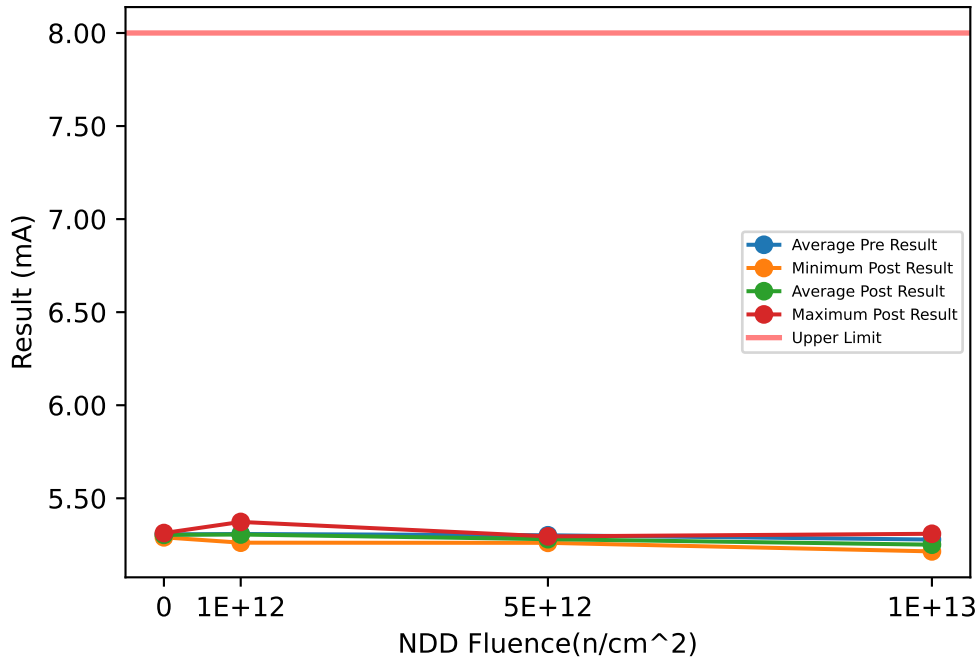


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0238	0.2246	0.5501	0.28445	0.0288	0.069	0.1306	0.054169	-0.5213	-0.1556	0.0307	0.31672
1e+12	0.0621	0.099733	0.1452	0.0421	-0.0203	0.047467	0.118	0.069191	-0.0824	-0.052267	-0.0272	0.027947
5e+12	0.1237	0.26357	0.5432	0.24217	0.0033	0.0408	0.0884	0.04344	-0.4548	-0.22277	-0.093	0.20142
1e+13	0.0261	0.22397	0.5494	0.28402	0.0503	0.083867	0.1038	0.02924	-0.4991	-0.1401	0.0777	0.31325

# Device Test: 5.4 UJTKLS(Iop\_32V\_UJTKLS)

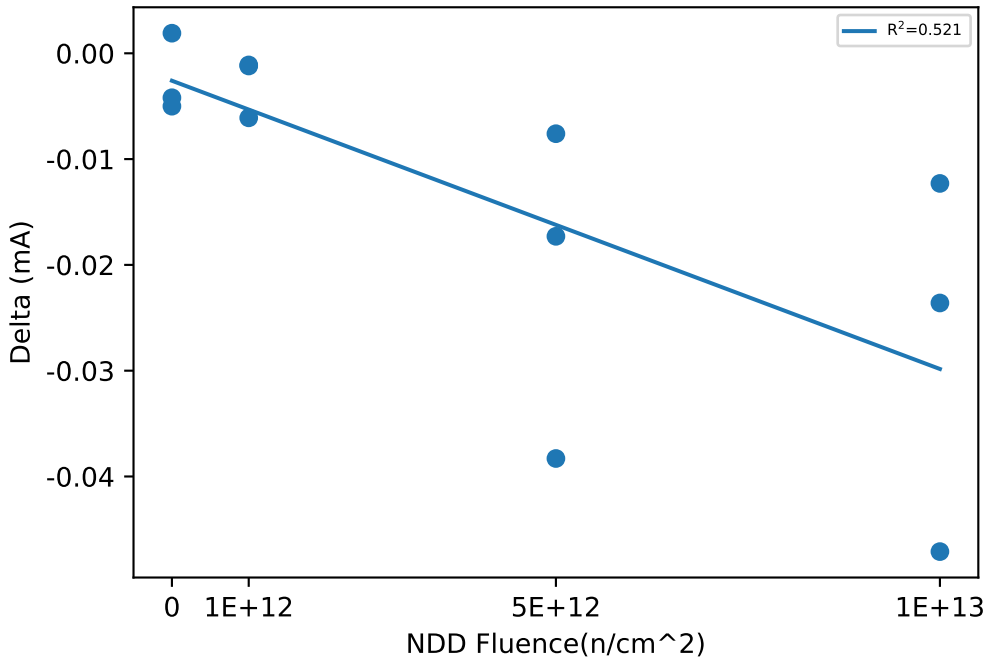
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	5.2829	5.2817	-0.0012
2	1e+12	NDD, unbiased	5.374	5.3729	-0.0011
3	1e+12	NDD, unbiased	5.2675	5.2614	-0.0061
4	5e+12	NDD, unbiased	5.3126	5.2953	-0.0173
5	5e+12	NDD, unbiased	5.2989	5.2606	-0.0383
6	5e+12	NDD, unbiased	5.2924	5.2848	-0.0076
7	1e+13	NDD, unbiased	5.3328	5.3092	-0.0236
8	1e+13	NDD, unbiased	5.2617	5.2146	-0.0471
9	1e+13	NDD, unbiased	5.2404	5.2281	-0.0123
10	0	correlation	5.2943	5.2901	-0.0042
11	0	correlation	5.3113	5.3132	0.0019
12	0	correlation	5.3122	5.3072	-0.005

## NDD vs Post - Pre Exposure Delta

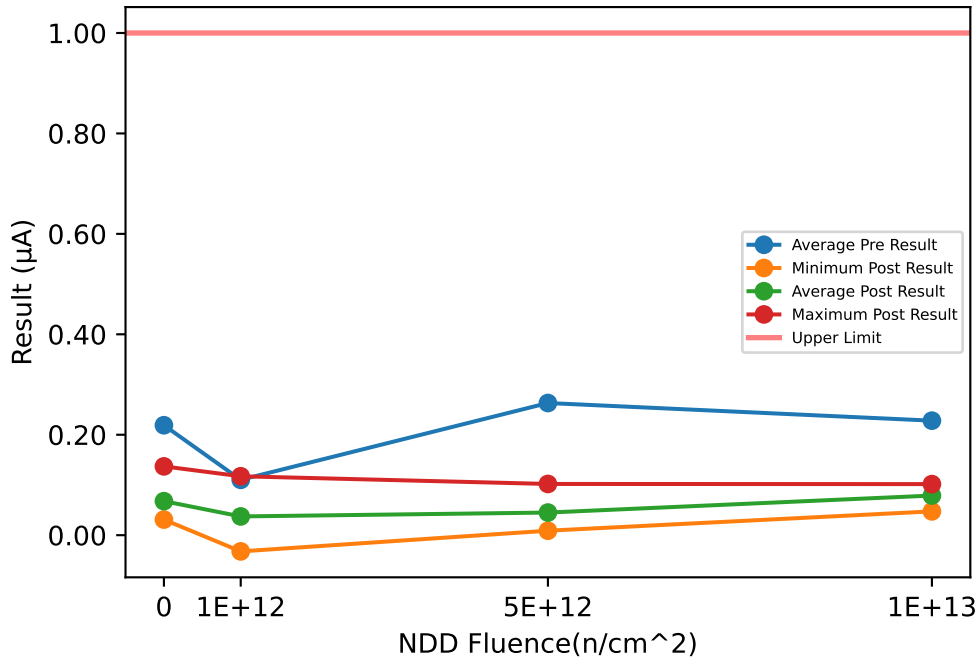


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.2943	5.3059	5.3122	0.010085	5.2901	5.3035	5.3132	0.011986	-0.005	-0.0024333	0.0019	0.003774
1e+12	5.2675	5.3081	5.374	0.05756	5.2614	5.3053	5.3729	0.059388	-0.0061	-0.0028	-0.0011	0.0028583
5e+12	5.2924	5.3013	5.3126	0.010312	5.2606	5.2802	5.2953	0.017795	-0.0383	-0.021067	-0.0076	0.015693
1e+13	5.2404	5.2783	5.3328	0.048385	5.2146	5.2506	5.3092	0.051167	-0.0471	-0.027667	-0.0123	0.017753

# Device Test: 5.40 UJXYSN(loutleak\_32V\_UJXYSN)

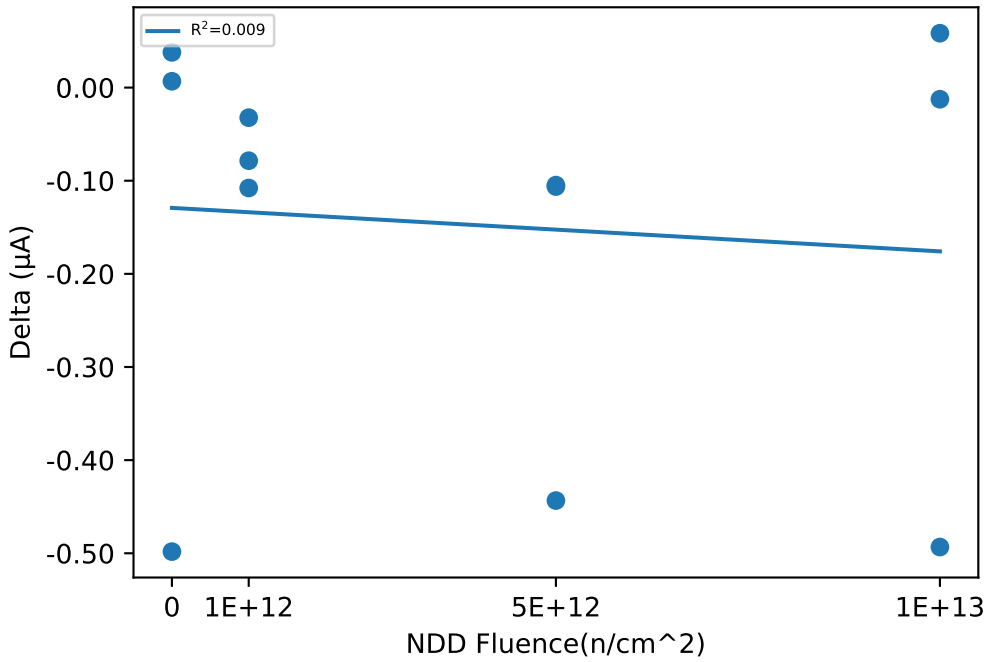
## NDD vs Result Stats



## Test Results (Upper Limit = 1.0 (µA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.1496	0.1173	-0.0323
2	1e+12	NDD, unbiased	0.1055	0.027	-0.0785
3	1e+12	NDD, unbiased	0.0755	-0.0323	-0.1078
4	5e+12	NDD, unbiased	0.5454	0.102	-0.4434
5	5e+12	NDD, unbiased	0.1289	0.0242	-0.1047
6	5e+12	NDD, unbiased	0.1152	0.0089	-0.1063
7	1e+13	NDD, unbiased	0.0433	0.1017	0.0584
8	1e+13	NDD, unbiased	0.5407	0.0474	-0.4933
9	1e+13	NDD, unbiased	0.1001	0.0876	-0.0125
10	0	correlation	0.0992	0.137	0.0378
11	0	correlation	0.0283	0.0351	0.0068
12	0	correlation	0.5293	0.0311	-0.4982

## NDD vs Post - Pre Exposure Delta

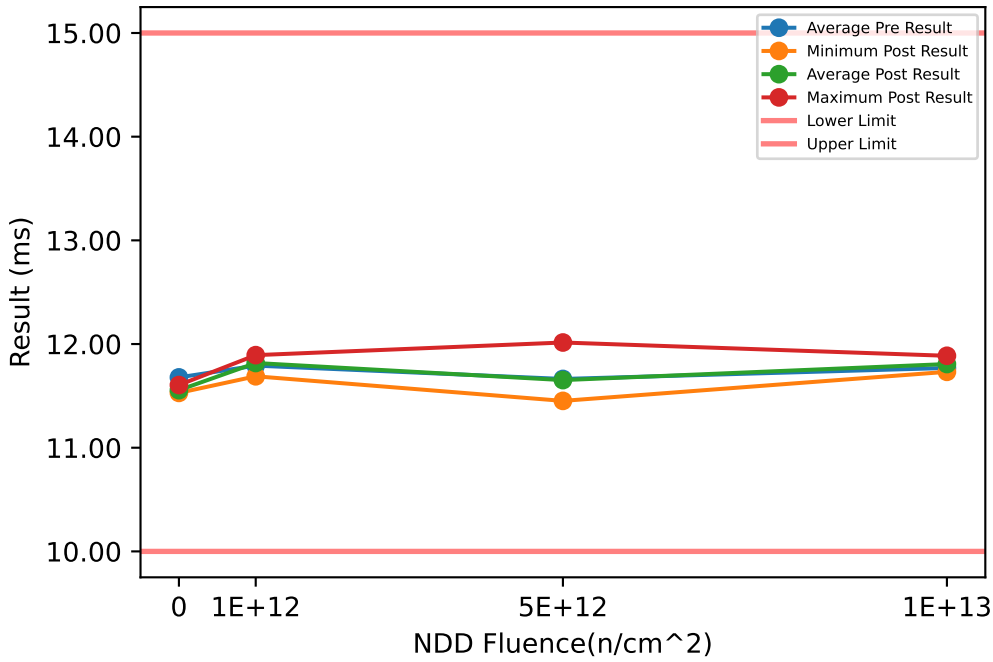


## Test Statistics (µA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0283	0.21893	0.5293	0.27111	0.0311	0.067733	0.137	0.06002	-0.4982	-0.1512	0.0378	0.30091
1e+12	0.0755	0.1102	0.1496	0.037273	-0.0323	0.037333	0.1173	0.075333	-0.1078	-0.072867	-0.0323	0.038064
5e+12	0.1152	0.26317	0.5454	0.24452	0.0089	0.045033	0.102	0.049924	-0.4434	-0.21813	-0.1047	0.19509
1e+13	0.0433	0.22803	0.5407	0.27226	0.0474	0.0789	0.1017	0.028176	-0.4933	-0.14913	0.0584	0.30016

# Device Test: 5.49 UJ4NY1(STBY\_DEGLITCH\_5V\_UJ4NY1)

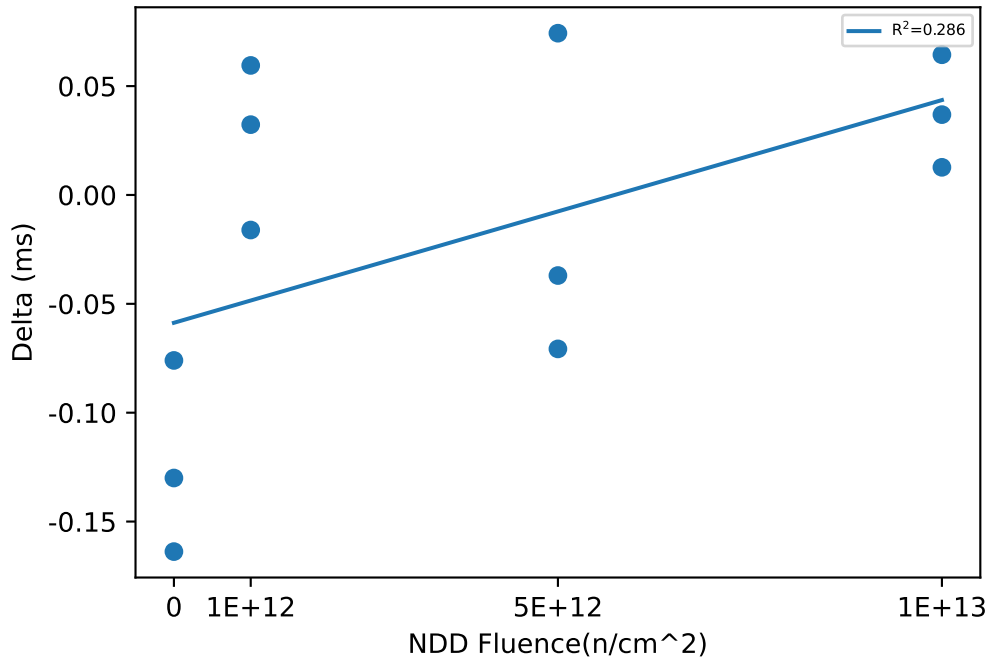
## NDD vs Result Stats



## Test Results (Lower Limit = 10.0, Upper Limit = 15.0 (ms))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	11.705	11.689	-0.0161
2	1e+12	NDD, unbiased	11.81	11.87	0.0595
3	1e+12	NDD, unbiased	11.861	11.893	0.0323
4	5e+12	NDD, unbiased	11.941	12.015	0.0743
5	5e+12	NDD, unbiased	11.489	11.452	-0.037
6	5e+12	NDD, unbiased	11.561	11.49	-0.0707
7	1e+13	NDD, unbiased	11.719	11.732	0.0127
8	1e+13	NDD, unbiased	11.766	11.803	0.0369
9	1e+13	NDD, unbiased	11.822	11.887	0.0644
10	0	correlation	11.608	11.532	-0.076
11	0	correlation	11.693	11.529	-0.1638
12	0	correlation	11.735	11.604	-0.13

## NDD vs Post - Pre Exposure Delta

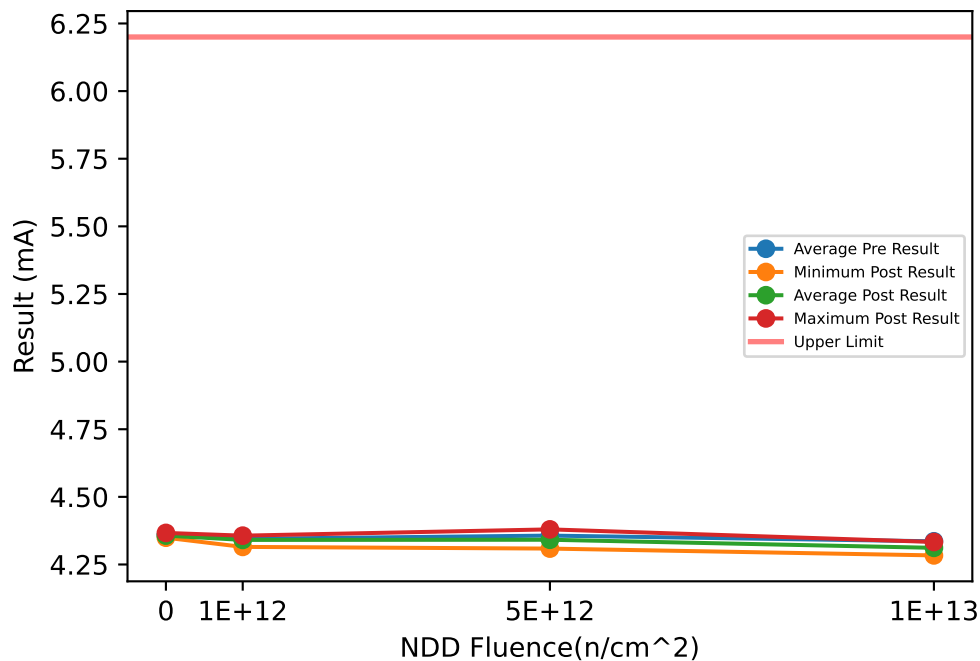


## Test Statistics (ms)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	11.608	11.678	11.735	0.064549	11.529	11.555	11.604	0.042866	-0.1638	-0.12327	-0.076	0.044286
1e+12	11.705	11.792	11.861	0.079369	11.689	11.817	11.893	0.11164	-0.0161	0.025233	0.0595	0.038292
5e+12	11.489	11.663	11.941	0.24277	11.452	11.652	12.015	0.31466	-0.0707	-0.011133	0.0743	0.075882
1e+13	11.719	11.769	11.822	0.051632	11.732	11.807	11.887	0.077497	0.0127	0.038	0.0644	0.025868

# Device Test: 5.5 UJ80MB(IQ\_Diag\_5V\_UJ80MB)

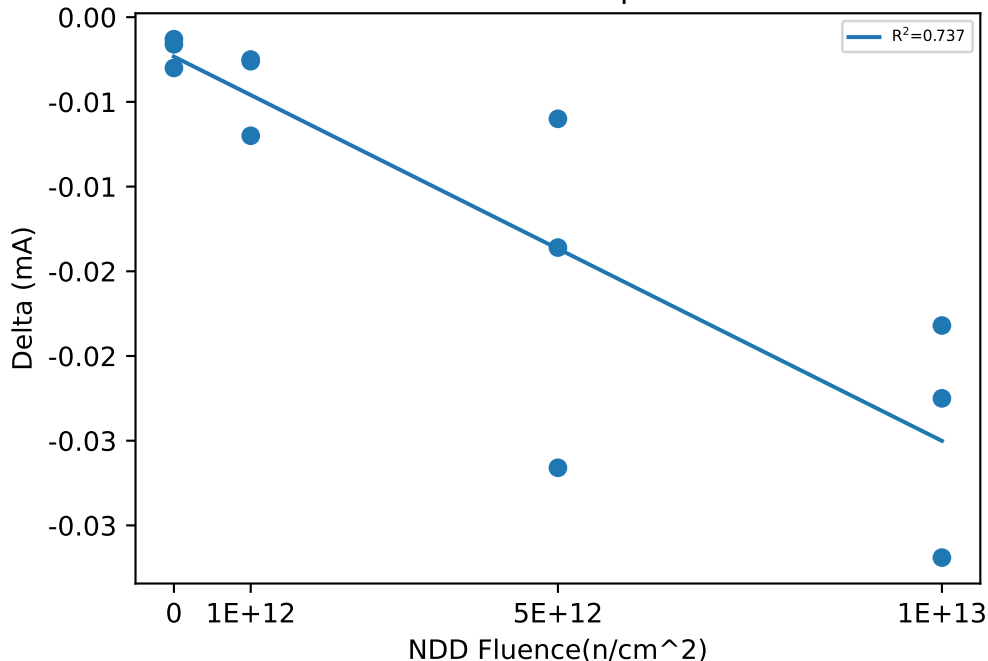
## NDD vs Result Stats



## Test Results (Upper Limit = 6.2 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	4.3534	4.3509	-0.0025
2	1e+12	NDD, unbiased	4.3592	4.3566	-0.0026
3	1e+12	NDD, unbiased	4.322	4.315	-0.007
4	5e+12	NDD, unbiased	4.3224	4.3088	-0.0136
5	5e+12	NDD, unbiased	4.3623	4.3357	-0.0266
6	5e+12	NDD, unbiased	4.3858	4.3798	-0.006
7	1e+13	NDD, unbiased	4.3557	4.3332	-0.0225
8	1e+13	NDD, unbiased	4.3497	4.3178	-0.0319
9	1e+13	NDD, unbiased	4.3018	4.2836	-0.0182
10	0	correlation	4.352	4.349	-0.003
11	0	correlation	4.368	4.3667	-0.0013
12	0	correlation	4.3563	4.3547	-0.0016

## NDD vs Post - Pre Exposure Delta

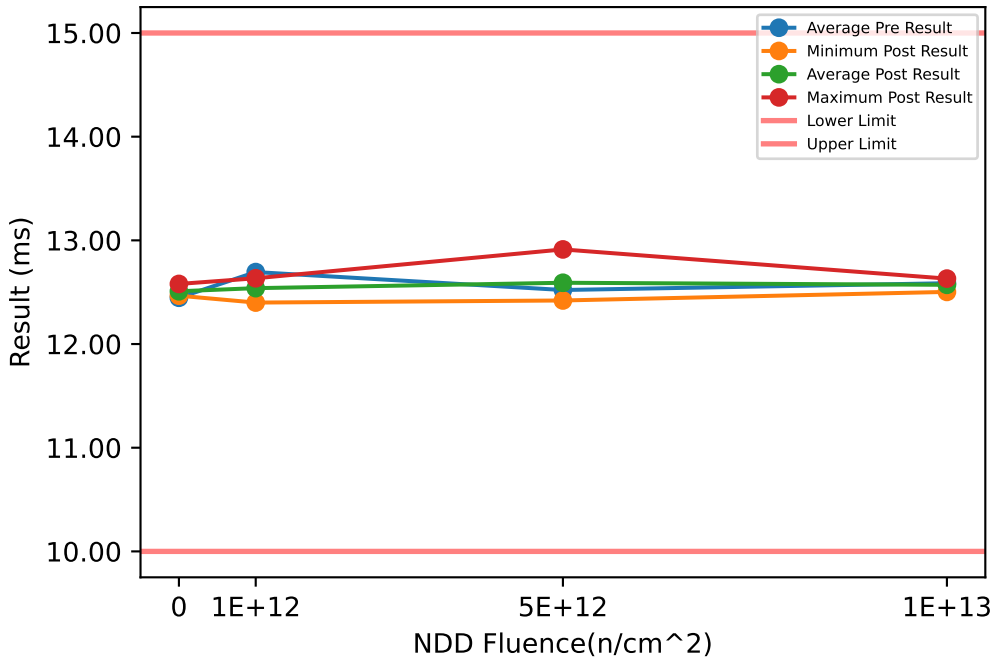


## Test Statistics (mA)

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	4.352	4.3588	4.368	0.0082803	4.349	4.3568	4.3667	0.0090349	-0.003	-0.0019667	-0.0013	0.00090738
1e+12	4.322	4.3449	4.3592	0.020014	4.315	4.3408	4.3566	0.022553	-0.007	-0.0040333	-0.0025	0.0025697
5e+12	4.3224	4.3568	4.3858	0.032052	4.3088	4.3414	4.3798	0.035846	-0.0266	-0.0154	-0.006	0.010417
1e+13	4.3018	4.3357	4.3557	0.02954	4.2836	4.3115	4.3332	0.025387	-0.0319	-0.0242	-0.0182	0.0070064

# Device Test: 5.50 UJ4NY1(STBY\_DEGLITCH\_12V\_UJ4NY1)

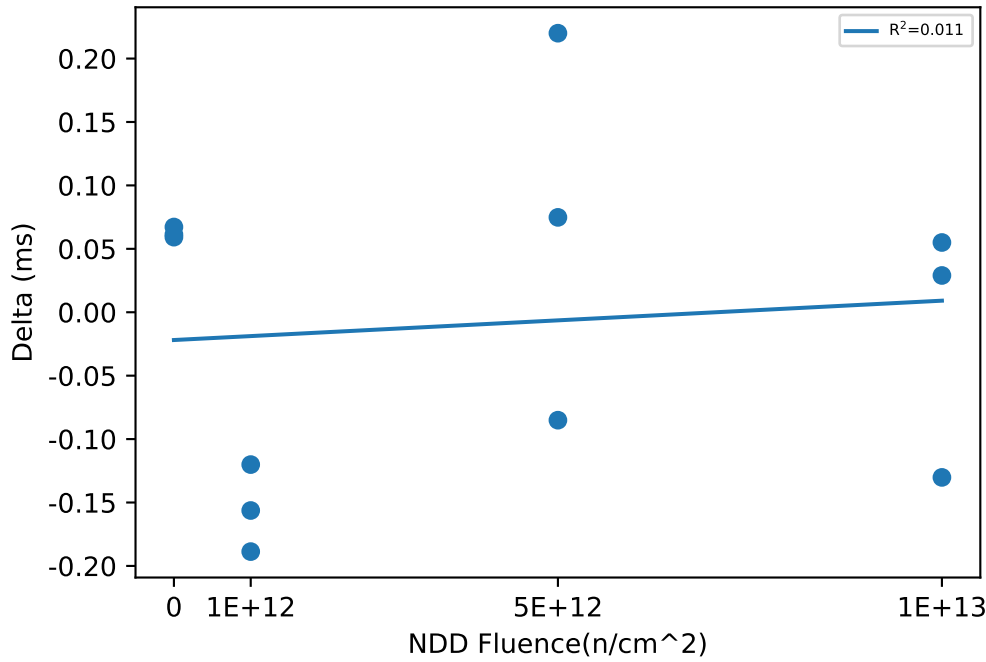
## NDD vs Result Stats



## Test Results (Lower Limit = 10.0, Upper Limit = 15.0 (ms))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	12.589	12.4	-0.1887
2	1e+12	NDD, unbiased	12.703	12.583	-0.1201
3	1e+12	NDD, unbiased	12.791	12.634	-0.1563
4	5e+12	NDD, unbiased	12.838	12.913	0.0748
5	5e+12	NDD, unbiased	12.2	12.42	0.22
6	5e+12	NDD, unbiased	12.525	12.44	-0.0851
7	1e+13	NDD, unbiased	12.474	12.503	0.029
8	1e+13	NDD, unbiased	12.525	12.58	0.055
9	1e+13	NDD, unbiased	12.761	12.631	-0.1302
10	0	correlation	12.413	12.481	0.0672
11	0	correlation	12.407	12.466	0.0592
12	0	correlation	12.518	12.58	0.0613

## NDD vs Post - Pre Exposure Delta



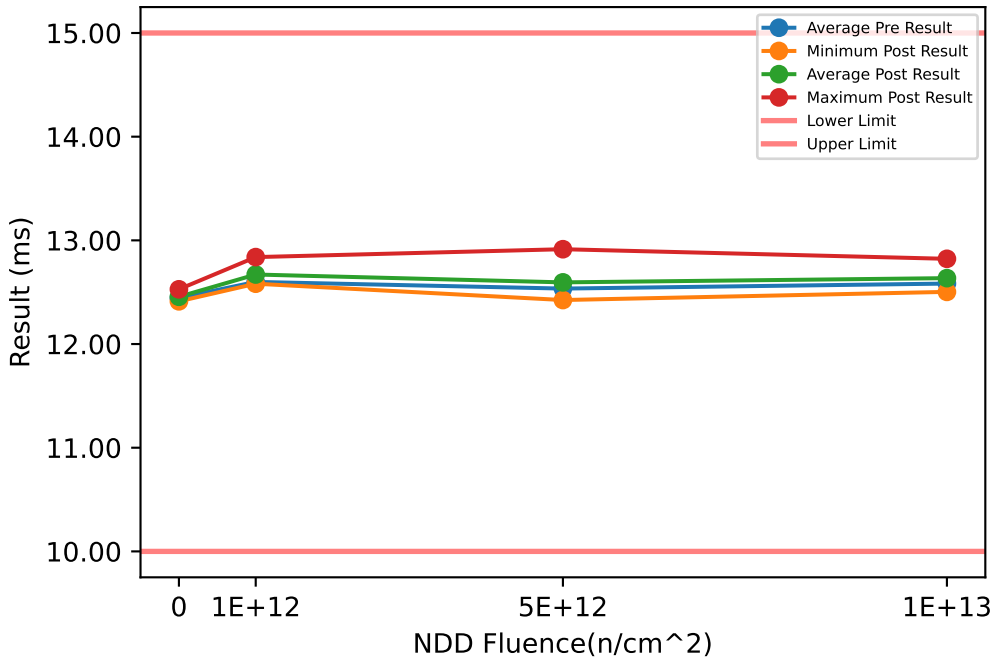
## Test Statistics (ms)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.407	12.446	12.518	0.062462	12.466	12.509	12.58	0.061701	0.0592	0.062567	0.0672	0.0041477
1e+12	12.589	12.694	12.791	0.1013	12.4	12.539	12.634	0.1232	-0.1887	-0.15503	-0.1201	0.034318
5e+12	12.2	12.521	12.838	0.31887	12.42	12.591	12.913	0.2787	-0.0851	0.0699	0.22	0.15261
1e+13	12.474	12.587	12.761	0.1534	12.503	12.571	12.631	0.064578	-0.1302	-0.0154	0.055	0.10027



# Device Test: 5.51 UJ4NY1(STBY\_DEGLITCH\_28V\_UJ4NY1)

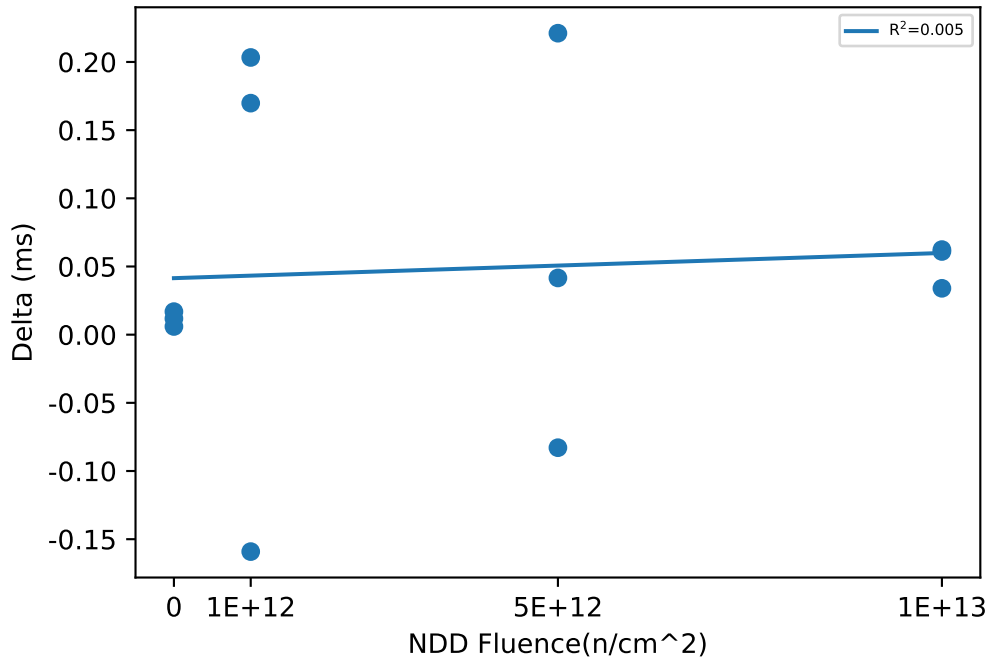
## NDD vs Result Stats



## Test Results (Lower Limit = 10.0, Upper Limit = 15.0 (ms))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	12.421	12.591	0.1698
2	1e+12	NDD, unbiased	12.741	12.582	-0.1591
3	1e+12	NDD, unbiased	12.635	12.838	0.2033
4	5e+12	NDD, unbiased	12.873	12.915	0.0416
5	5e+12	NDD, unbiased	12.203	12.424	0.2211
6	5e+12	NDD, unbiased	12.528	12.445	-0.0829
7	1e+13	NDD, unbiased	12.469	12.503	0.034
8	1e+13	NDD, unbiased	12.521	12.582	0.061
9	1e+13	NDD, unbiased	12.76	12.822	0.0624
10	0	correlation	12.411	12.428	0.0169
11	0	correlation	12.406	12.412	0.006
12	0	correlation	12.516	12.528	0.0118

## NDD vs Post - Pre Exposure Delta

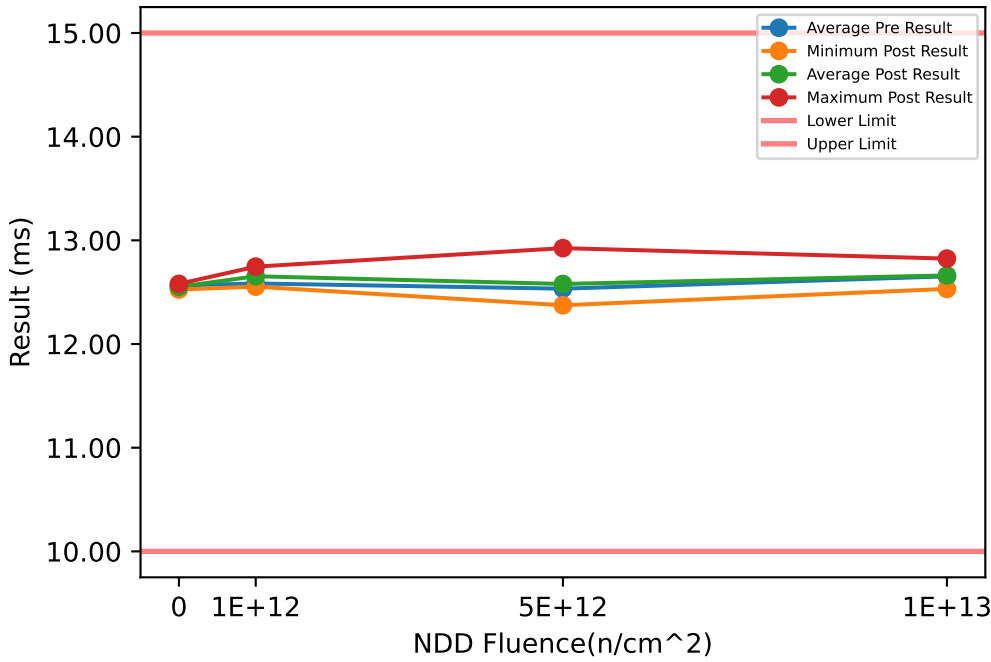


## Test Statistics (ms)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.406	12.444	12.516	0.062146	12.412	12.456	12.528	0.062808	0.006	0.011567	0.0169	0.0054537
1e+12	12.421	12.599	12.741	0.16281	12.582	12.671	12.838	0.14554	-0.1591	0.071333	0.2033	0.20026
5e+12	12.203	12.535	12.873	0.3349	12.424	12.595	12.915	0.27718	-0.0829	0.059933	0.2211	0.15283
1e+13	12.469	12.583	12.76	0.15501	12.503	12.636	12.822	0.16616	0.034	0.052467	0.0624	0.016008

# Device Test: 5.52 UJ4NY1(STBY\_DEGLITCH\_32V\_UJ4NY1)

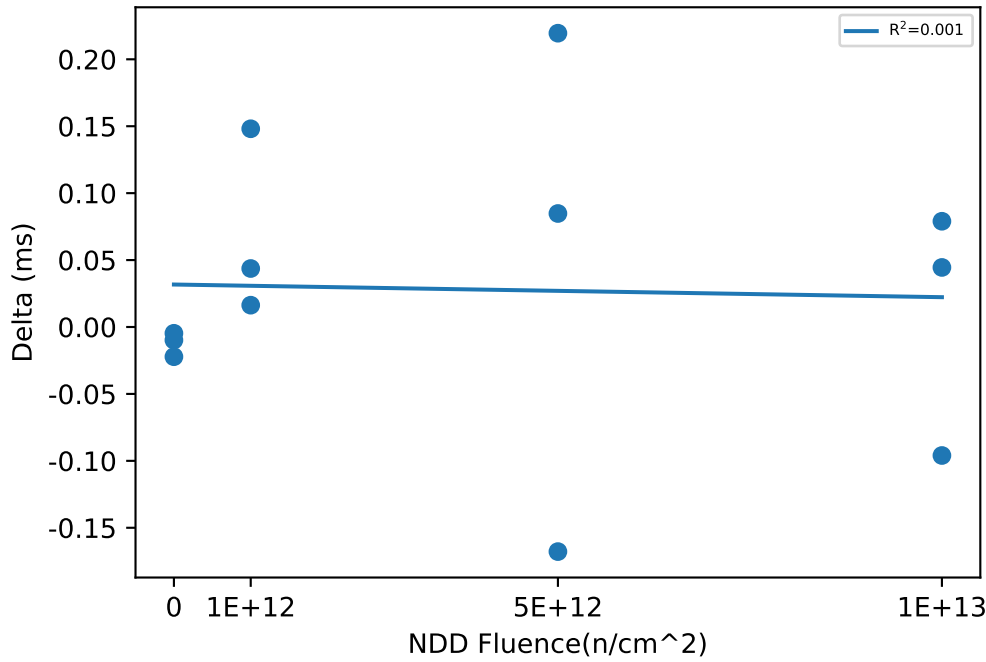
## NDD vs Result Stats



## Test Results (Lower Limit = 10.0, Upper Limit = 15.0 (ms))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	12.405	12.553	0.1481
2	1e+12	NDD, unbiased	12.703	12.746	0.0437
3	1e+12	NDD, unbiased	12.645	12.661	0.0163
4	5e+12	NDD, unbiased	12.84	12.925	0.0848
5	5e+12	NDD, unbiased	12.22	12.439	0.2195
6	5e+12	NDD, unbiased	12.542	12.374	-0.1678
7	1e+13	NDD, unbiased	12.551	12.63	0.079
8	1e+13	NDD, unbiased	12.628	12.532	-0.096
9	1e+13	NDD, unbiased	12.779	12.824	0.0445
10	0	correlation	12.585	12.58	-0.0047
11	0	correlation	12.573	12.551	-0.0222
12	0	correlation	12.536	12.526	-0.0098

## NDD vs Post - Pre Exposure Delta

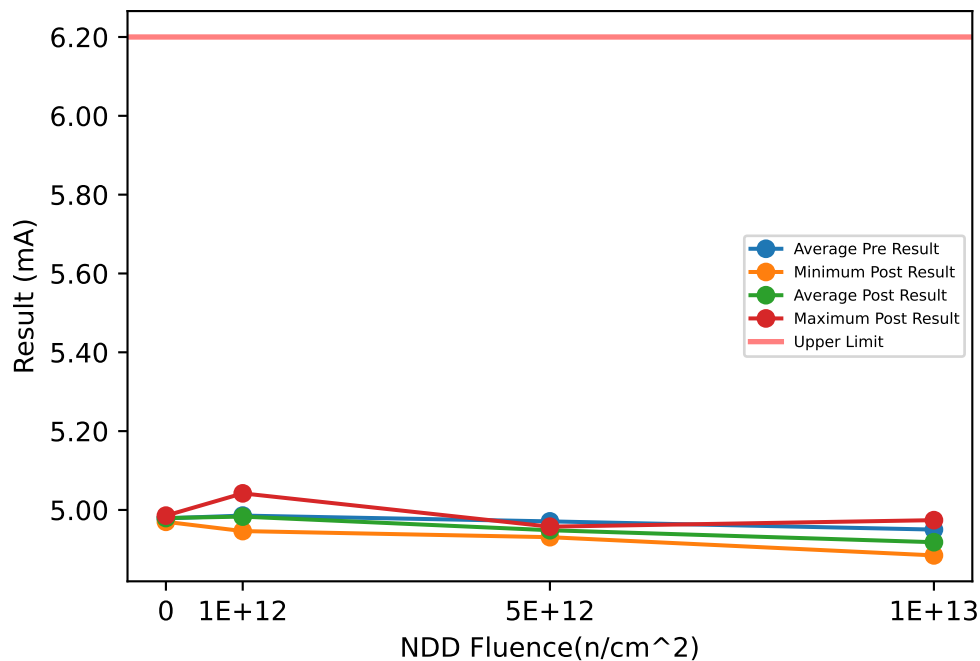


## Test Statistics (ms)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.536	12.565	12.585	0.025641	12.526	12.553	12.58	0.027071	-0.0222	-0.012233	-0.0047	0.0090002
1e+12	12.405	12.584	12.703	0.15776	12.553	12.654	12.746	0.096816	0.0163	0.069367	0.1481	0.069548
5e+12	12.22	12.534	12.84	0.31038	12.374	12.579	12.925	0.30109	-0.1678	0.0455	0.2195	0.19662
1e+13	12.551	12.653	12.779	0.11621	12.532	12.662	12.824	0.1486	-0.096	0.0091667	0.079	0.092696

# Device Test: 5.6 UJ8OMB(IQ\_Diag\_12V\_UJ8OMB)

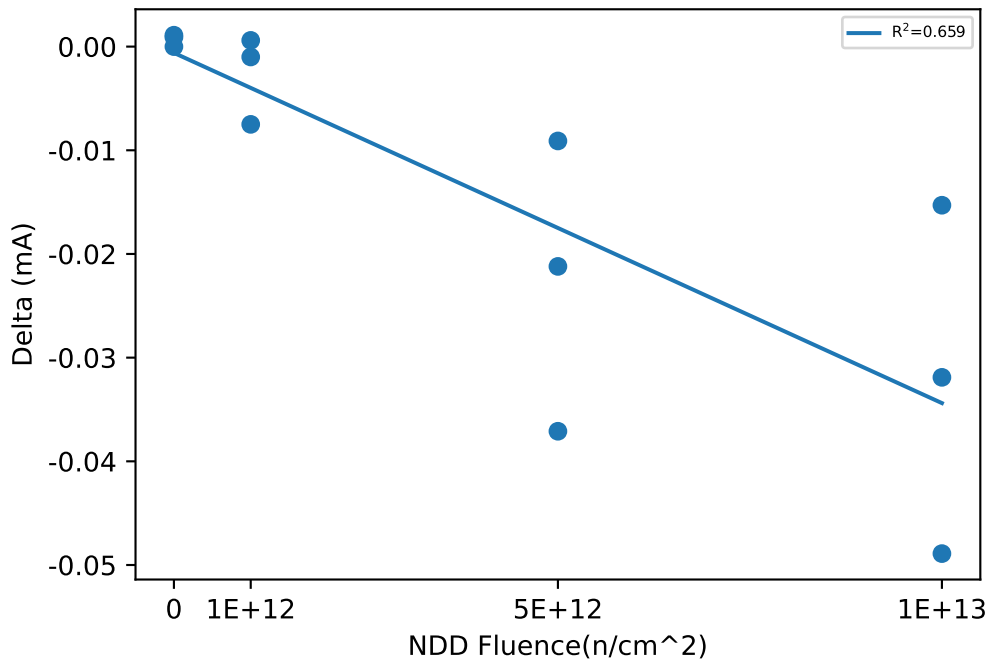
## NDD vs Result Stats



## Test Results (Upper Limit = 6.2 (mA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	4.9618	4.9608	-0.001
2	1e+12	NDD, unbiased	5.0415	5.0421	0.0006
3	1e+12	NDD, unbiased	4.9539	4.9464	-0.0075
4	5e+12	NDD, unbiased	4.9788	4.9576	-0.0212
5	5e+12	NDD, unbiased	4.968	4.9309	-0.0371
6	5e+12	NDD, unbiased	4.9663	4.9572	-0.0091
7	1e+13	NDD, unbiased	5.006	4.9741	-0.0319
8	1e+13	NDD, unbiased	4.9336	4.8847	-0.0489
9	1e+13	NDD, unbiased	4.911	4.8957	-0.0153
10	0	correlation	4.969	4.9699	0.0009
11	0	correlation	4.9845	4.9856	0.0011
12	0	correlation	4.9829	4.9829	0

## NDD vs Post - Pre Exposure Delta

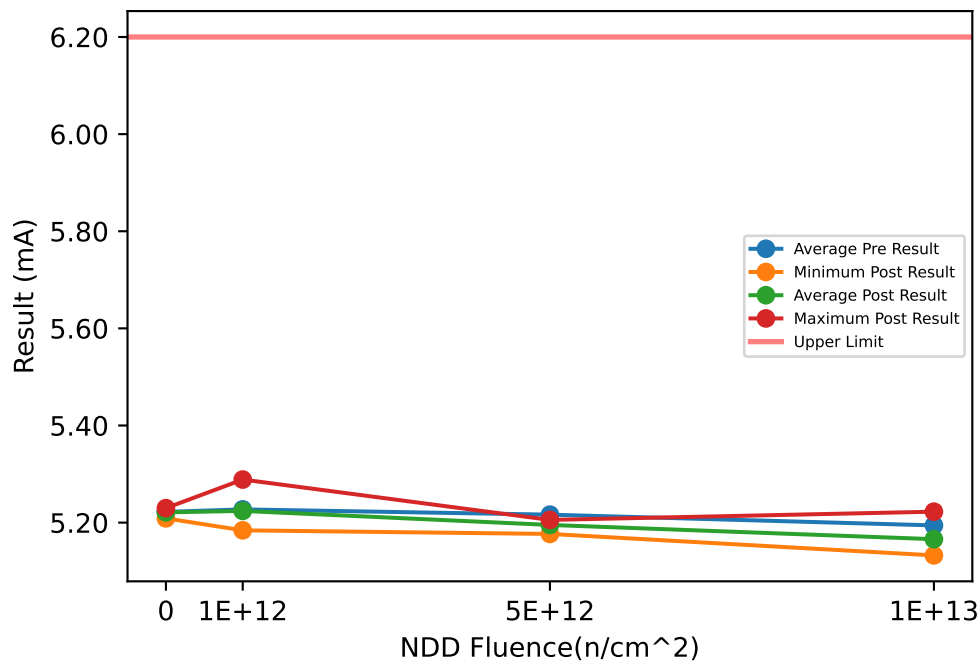


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.969	4.9788	4.9845	0.0085247	4.9699	4.9795	4.9856	0.0083942	0	0.00066667	0.0011	0.00058595
1e+12	4.9539	4.9857	5.0415	0.048457	4.9464	4.9831	5.0421	0.0516	-0.0075	-0.0026333	0.0006	0.0042899
5e+12	4.9663	4.971	4.9788	0.0067796	4.9309	4.9486	4.9576	0.015301	-0.0371	-0.022467	-0.0091	0.014043
1e+13	4.911	4.9502	5.006	0.049628	4.8847	4.9182	4.9741	0.048751	-0.0489	-0.032033	-0.0153	0.0168

# Device Test: 5.7 UJ8OMB(IQ\_Diag\_28V\_UJ8OMB)

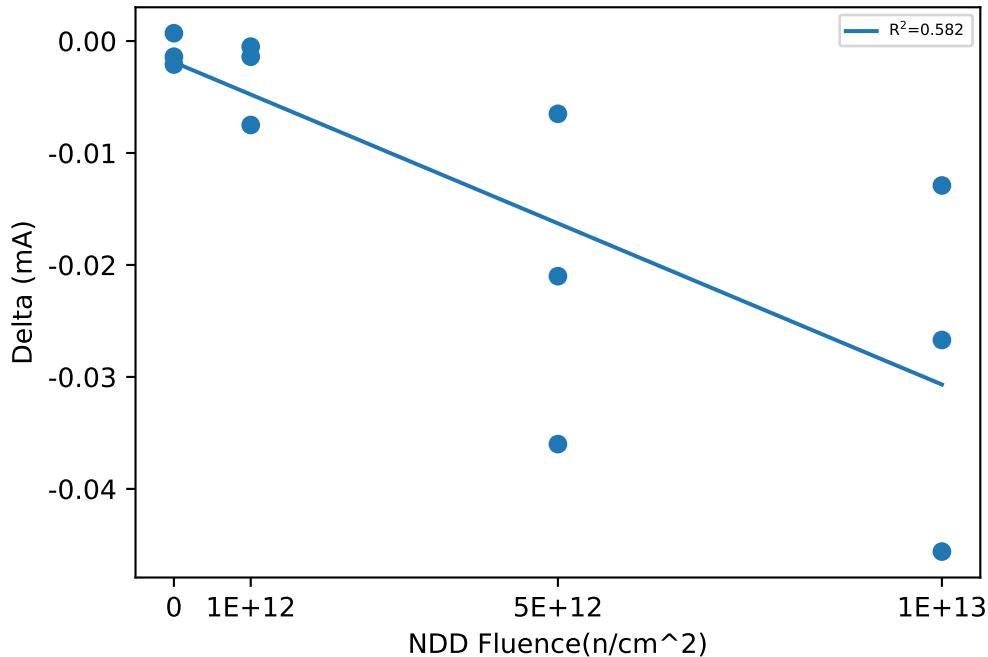
## NDD vs Result Stats



## Test Results (Upper Limit = 6.2 (mA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	5.2009	5.1995	-0.0014
2	1e+12	NDD, unbiased	5.2892	5.2887	-0.0005
3	1e+12	NDD, unbiased	5.1916	5.1841	-0.0075
4	5e+12	NDD, unbiased	5.2266	5.2056	-0.021
5	5e+12	NDD, unbiased	5.2127	5.1767	-0.036
6	5e+12	NDD, unbiased	5.2099	5.2034	-0.0065
7	1e+13	NDD, unbiased	5.2492	5.2225	-0.0267
8	1e+13	NDD, unbiased	5.1781	5.1325	-0.0456
9	1e+13	NDD, unbiased	5.1555	5.1426	-0.0129
10	0	correlation	5.2102	5.2088	-0.0014
11	0	correlation	5.2291	5.2298	0.0007
12	0	correlation	5.2269	5.2248	-0.0021

## NDD vs Post - Pre Exposure Delta

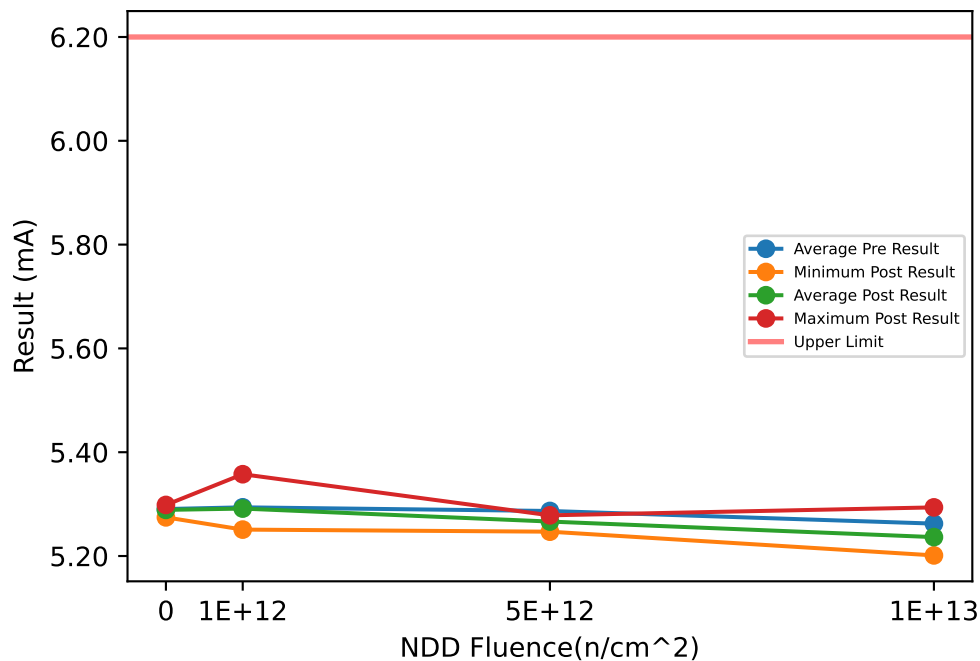


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.2102	5.2221	5.2291	0.010336	5.2088	5.2211	5.2298	0.01097	-0.0021	-0.00093333	0.0007	0.0014572
1e+12	5.1916	5.2272	5.2892	0.053866	5.1841	5.2241	5.2887	0.056473	-0.0075	-0.0031333	-0.0005	0.0038083
5e+12	5.2099	5.2164	5.2266	0.0089437	5.1767	5.1952	5.2056	0.016088	-0.036	-0.021167	-0.0065	0.014751
1e+13	5.1555	5.1943	5.2492	0.048897	5.1325	5.1659	5.2225	0.049305	-0.0456	-0.0284	-0.0129	0.016416

# Device Test: 5.8 UJ8OMB(IQ\_Diag\_32V\_UJ8OMB)

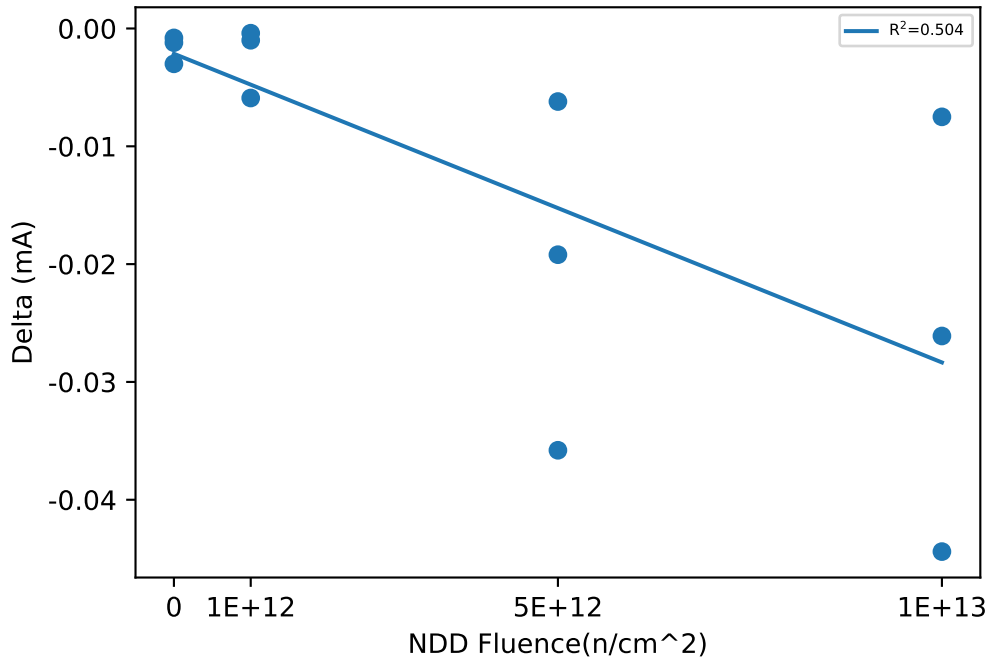
## NDD vs Result Stats



## Test Results (Upper Limit = 6.2 (mA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	5.2661	5.2657	-0.0004
2	1e+12	NDD, unbiased	5.3586	5.3576	-0.001
3	1e+12	NDD, unbiased	5.2568	5.2509	-0.0059
4	5e+12	NDD, unbiased	5.2976	5.2784	-0.0192
5	5e+12	NDD, unbiased	5.2827	5.2469	-0.0358
6	5e+12	NDD, unbiased	5.2801	5.2739	-0.0062
7	1e+13	NDD, unbiased	5.3198	5.2937	-0.0261
8	1e+13	NDD, unbiased	5.2456	5.2012	-0.0444
9	1e+13	NDD, unbiased	5.2219	5.2144	-0.0075
10	0	correlation	5.2775	5.2745	-0.003
11	0	correlation	5.2996	5.2984	-0.0012
12	0	correlation	5.2945	5.2937	-0.0008

## NDD vs Post - Pre Exposure Delta

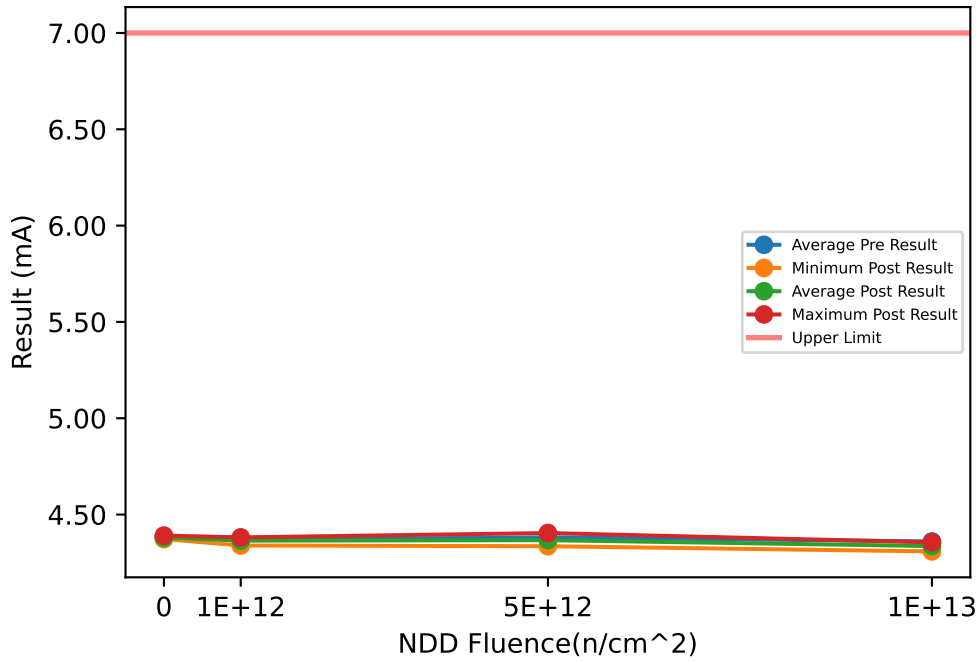


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.2775	5.2905	5.2996	0.011572	5.2745	5.2889	5.2984	0.012662	-0.003	-0.0016667	-0.0008	0.0011719
1e+12	5.2568	5.2938	5.3586	0.056282	5.2509	5.2914	5.3576	0.057806	-0.0059	-0.0024333	-0.0004	0.0030172
5e+12	5.2801	5.2868	5.2976	0.009443	5.2469	5.2664	5.2784	0.017037	-0.0358	-0.0204	-0.0062	0.014836
1e+13	5.2219	5.2624	5.3198	0.051075	5.2012	5.2364	5.2937	0.050032	-0.0444	-0.026	-0.0075	0.01845

# Device Test: 5.9 UJKFAE(IQ\_5V\_UJKFAE)

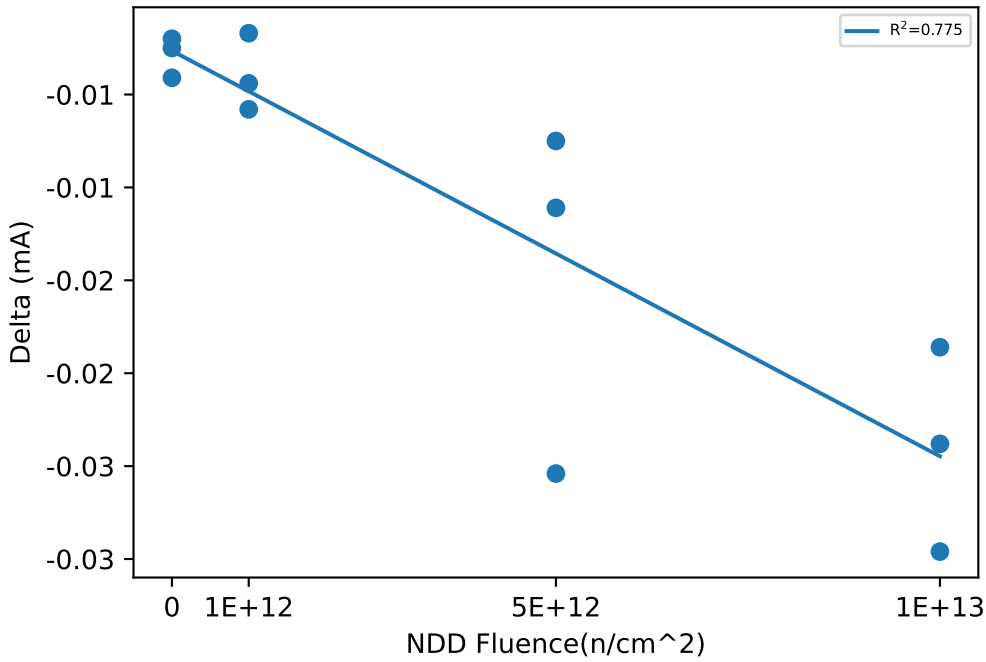
## NDD vs Result Stats



## Test Results (Upper Limit = 7.0 (mA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	4.3776	4.3732	-0.0044
2	1e+12	NDD, unbiased	4.3831	4.3814	-0.0017
3	1e+12	NDD, unbiased	4.3451	4.3393	-0.0058
4	5e+12	NDD, unbiased	4.3467	4.3356	-0.0111
5	5e+12	NDD, unbiased	4.3865	4.3611	-0.0254
6	5e+12	NDD, unbiased	4.4115	4.404	-0.0075
7	1e+13	NDD, unbiased	4.3795	4.3557	-0.0238
8	1e+13	NDD, unbiased	4.3745	4.3449	-0.0296
9	1e+13	NDD, unbiased	4.3273	4.3087	-0.0186
10	0	correlation	4.3769	4.3728	-0.0041
11	0	correlation	4.3929	4.3909	-0.002
12	0	correlation	4.3808	4.3783	-0.0025

## NDD vs Post - Pre Exposure Delta

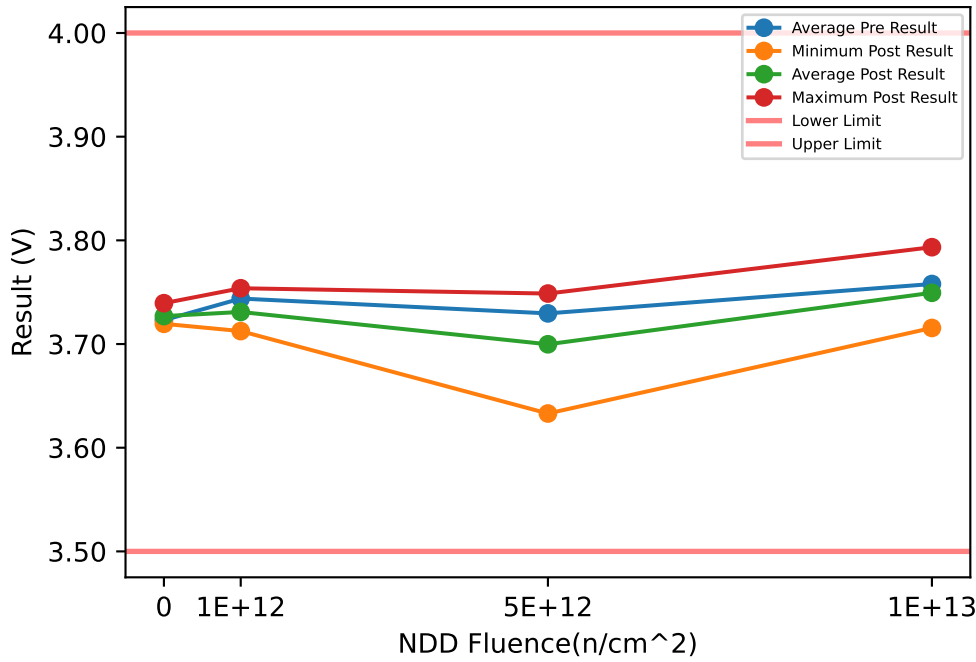


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.3769	4.3835	4.3929	0.0083429	4.3728	4.3807	4.3909	0.0092792	-0.0041	-0.0028667	-0.002	0.001097
1e+12	4.3451	4.3686	4.3831	0.020537	4.3393	4.3646	4.3814	0.022319	-0.0058	-0.0039667	-0.0017	0.0020841
5e+12	4.3467	4.3816	4.4115	0.03268	4.3356	4.3669	4.404	0.034567	-0.0254	-0.014667	-0.0075	0.009468
1e+13	4.3273	4.3604	4.3795	0.028803	4.3087	4.3364	4.3557	0.024617	-0.0296	-0.024	-0.0186	0.0055027

# Device Test: 6.1 UJCS56(UVLOR\_UJCS56)

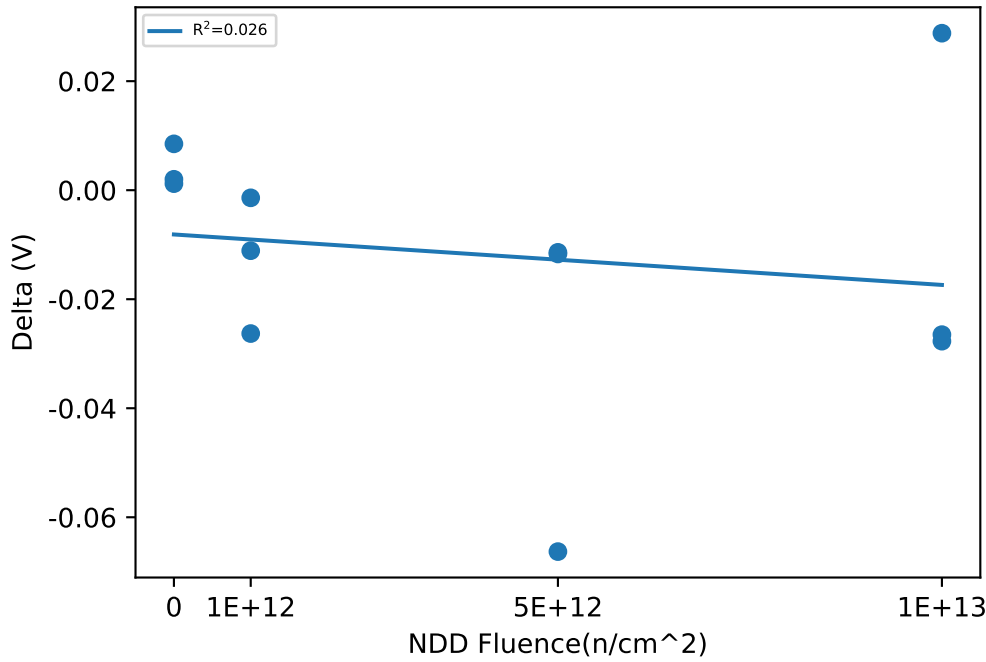
## NDD vs Result Stats



## Test Results (Lower Limit = 3.5, Upper Limit = 4.0 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.7552	3.7538	-0.0014
2	1e+12	NDD, unbiased	3.7376	3.7265	-0.0111
3	1e+12	NDD, unbiased	3.7388	3.7125	-0.0263
4	5e+12	NDD, unbiased	3.729	3.7176	-0.0114
5	5e+12	NDD, unbiased	3.6993	3.633	-0.0663
6	5e+12	NDD, unbiased	3.7604	3.7487	-0.0117
7	1e+13	NDD, unbiased	3.7659	3.7394	-0.0265
8	1e+13	NDD, unbiased	3.7646	3.7934	0.0288
9	1e+13	NDD, unbiased	3.7432	3.7155	-0.0277
10	0	correlation	3.7199	3.7219	0.002
11	0	correlation	3.7382	3.7394	0.0012
12	0	correlation	3.711	3.7195	0.0085

## NDD vs Post - Pre Exposure Delta

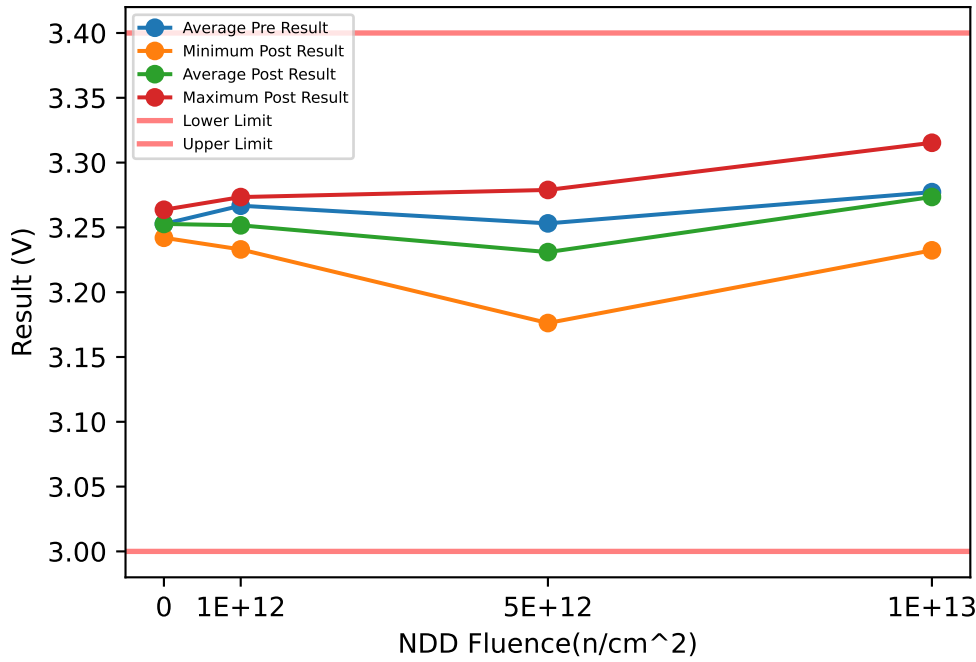


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.711	3.723	3.7382	0.013868	3.7195	3.7269	3.7394	0.010863	0.0012	0.0039	0.0085	0.0040037
1e+12	3.7376	3.7439	3.7552	0.0098333	3.7125	3.7309	3.7538	0.021004	-0.0263	-0.012933	-0.0014	0.012551
5e+12	3.6993	3.7296	3.7604	0.030554	3.633	3.6998	3.7487	0.059876	-0.0663	-0.0298	-0.0114	0.03161
1e+13	3.7432	3.7579	3.7659	0.012747	3.7155	3.7494	3.7934	0.039907	-0.0277	-0.0084667	0.0288	0.032279

# Device Test: 6.2 UJE7RD(UVLOF\_UJE7RD)

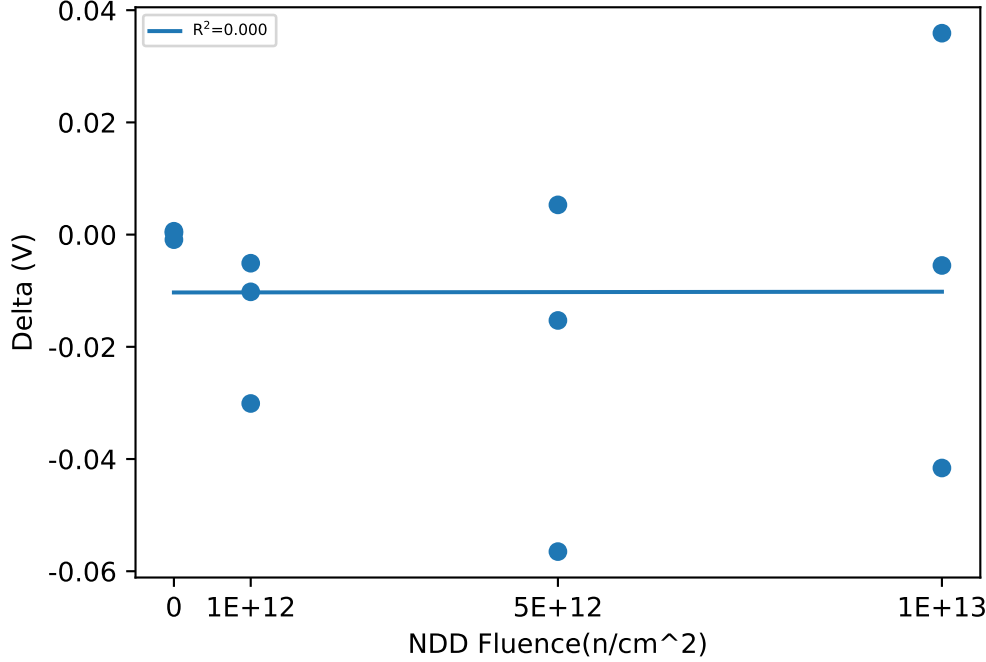
## NDD vs Result Stats



## Test Results (Lower Limit = 3.0, Upper Limit = 3.4 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.2785	3.2734	-0.0051
2	1e+12	NDD, unbiased	3.2586	3.2484	-0.0102
3	1e+12	NDD, unbiased	3.2631	3.233	-0.0301
4	5e+12	NDD, unbiased	3.253	3.2377	-0.0153
5	5e+12	NDD, unbiased	3.2327	3.1762	-0.0565
6	5e+12	NDD, unbiased	3.2736	3.2789	0.0053
7	1e+13	NDD, unbiased	3.2783	3.2728	-0.0055
8	1e+13	NDD, unbiased	3.2794	3.3153	0.0359
9	1e+13	NDD, unbiased	3.2739	3.2323	-0.0416
10	0	correlation	3.2533	3.2524	-0.0009
11	0	correlation	3.263	3.2636	0.0006
12	0	correlation	3.2417	3.242	0.0003

## NDD vs Post - Pre Exposure Delta



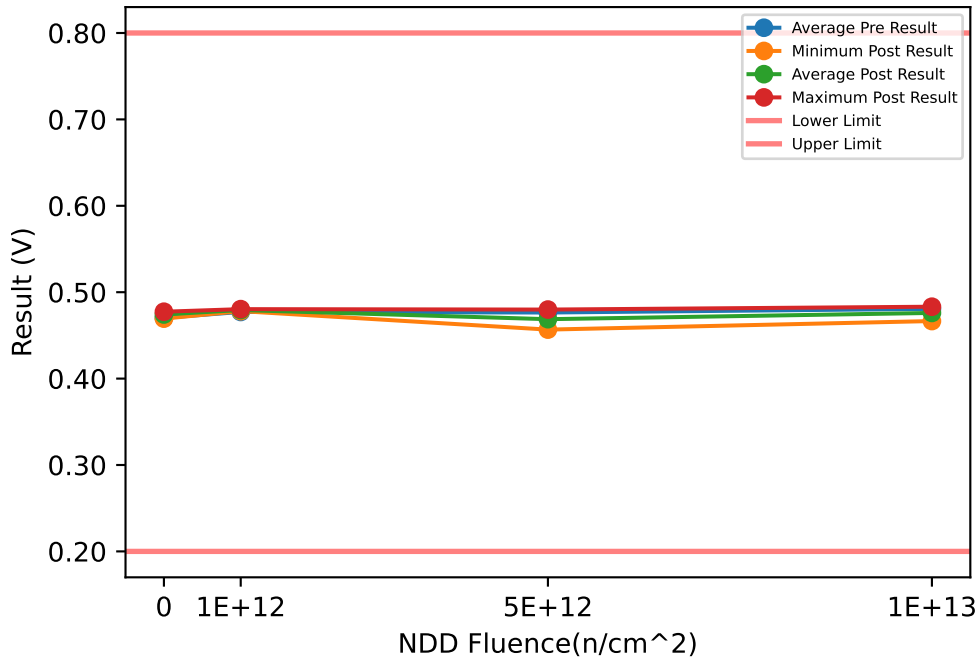
## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.2417	3.2527	3.263	0.010664	3.242	3.2527	3.2636	0.010802	-0.0009	1.4803e-16	0.0006	0.00079373
1e+12	3.2586	3.2667	3.2785	0.010436	3.233	3.2516	3.2734	0.020389	-0.0301	-0.015133	-0.0051	0.01321
5e+12	3.2327	3.2531	3.2736	0.02045	3.1762	3.2309	3.2789	0.051683	-0.0565	-0.022167	0.0053	0.031467
1e+13	3.2739	3.2772	3.2794	0.0029103	3.2323	3.2735	3.3153	0.041504	-0.0416	-0.0037333	0.0359	0.03878



# Device Test: 6.3 UJNA02(UVLO\_HYS\_UJNA02)

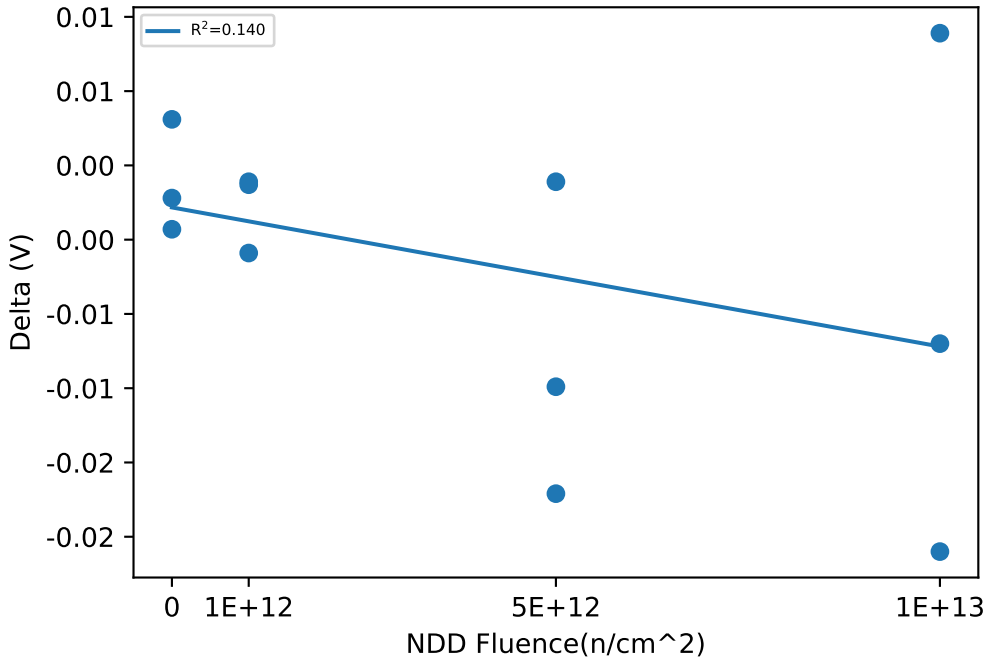
## NDD vs Result Stats



## Test Results (Lower Limit = 0.2, Upper Limit = 0.8 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.4767	0.4804	0.0037
2	1e+12	NDD, unbiased	0.479	0.4781	-0.0009
3	1e+12	NDD, unbiased	0.4757	0.4796	0.0039
4	5e+12	NDD, unbiased	0.476	0.4799	0.0039
5	5e+12	NDD, unbiased	0.4666	0.4567	-0.0099
6	5e+12	NDD, unbiased	0.4868	0.4697	-0.0171
7	1e+13	NDD, unbiased	0.4876	0.4666	-0.021
8	1e+13	NDD, unbiased	0.4852	0.4782	-0.007
9	1e+13	NDD, unbiased	0.4693	0.4832	0.0139
10	0	correlation	0.4666	0.4694	0.0028
11	0	correlation	0.4751	0.4758	0.0007
12	0	correlation	0.4693	0.4774	0.0081

## NDD vs Post - Pre Exposure Delta

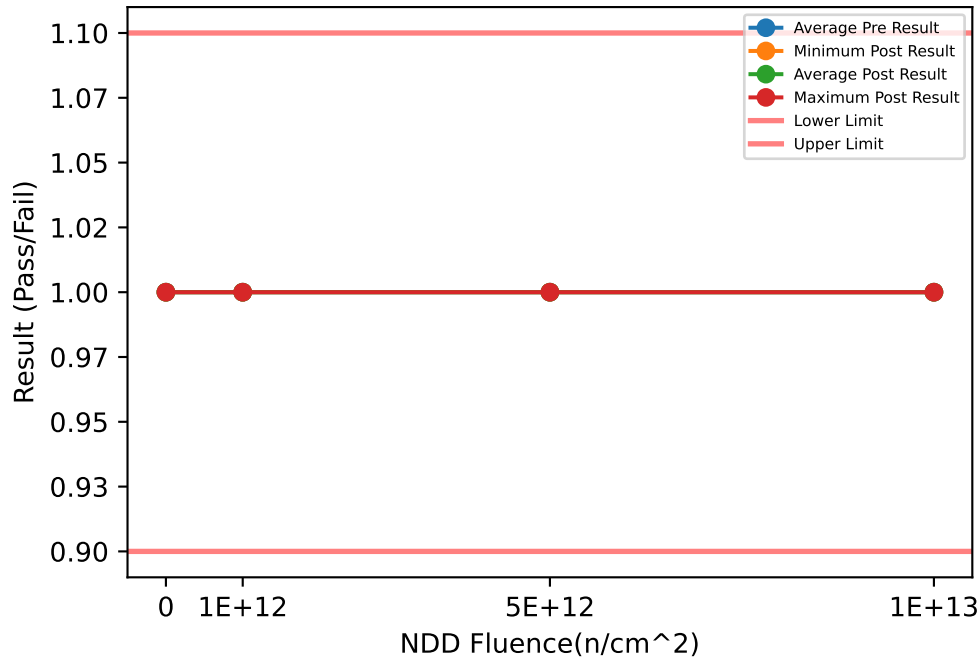


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4666	0.47033	0.4751	0.0043432	0.4694	0.4742	0.4774	0.0042332	0.0007	0.0038667	0.0081	0.0038136
1e+12	0.4757	0.47713	0.479	0.0016921	0.4781	0.47937	0.4804	0.0011676	-0.0009	0.0022333	0.0039	0.0027154
5e+12	0.4666	0.47647	0.4868	0.010108	0.4567	0.46877	0.4799	0.011628	-0.0171	-0.0077	0.0039	0.010671
1e+13	0.4693	0.4807	0.4876	0.0099454	0.4666	0.476	0.4832	0.0085159	-0.021	-0.0047	0.0139	0.017563

# Device Test: 7.1001 UJTCWZ(EN4\_Logic\_High\_Go-No-Go\_UJTCWZ)

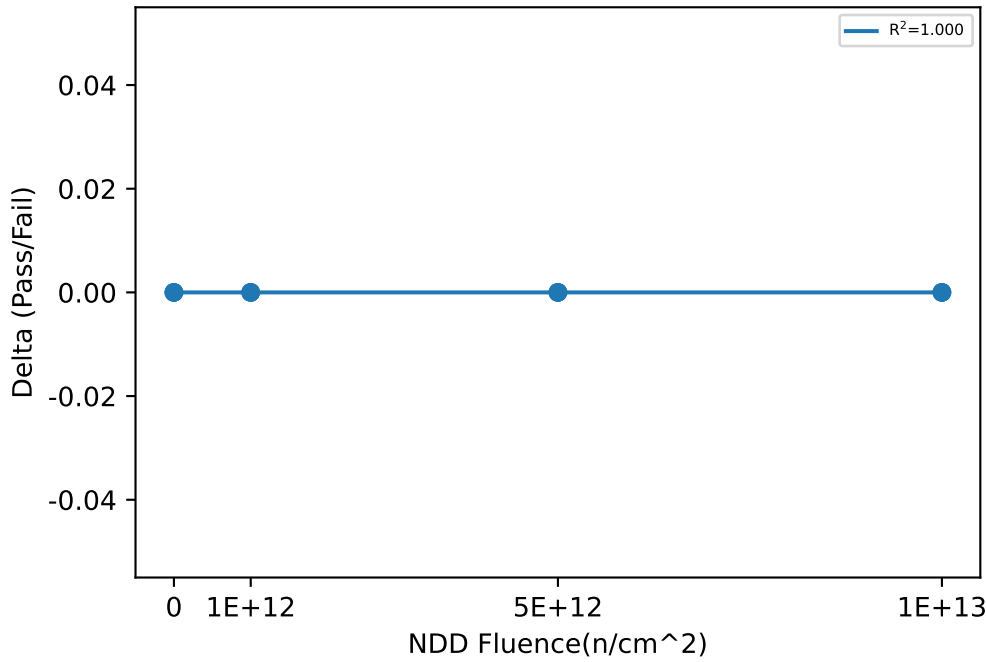
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

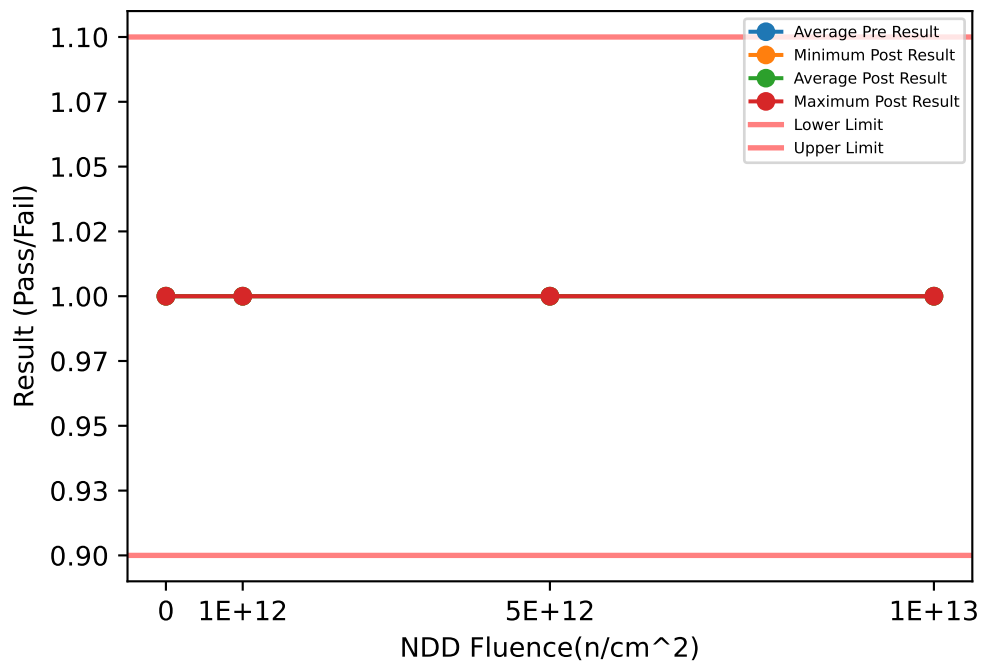


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.101 UJTCWZ(EN1\_Logic\_High\_Go-No-Go\_UJTCWZ)

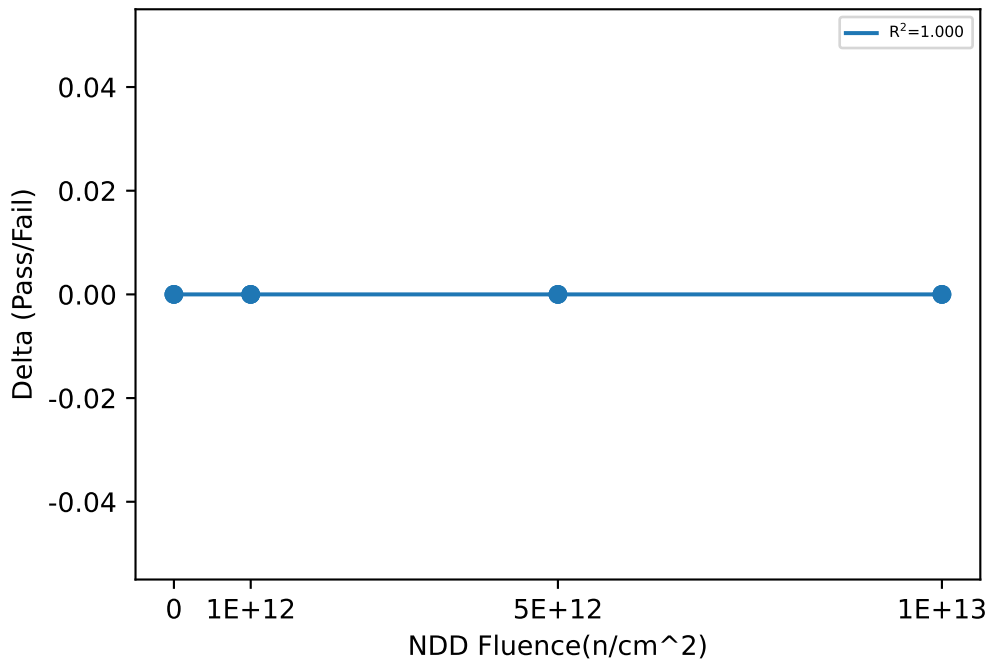
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

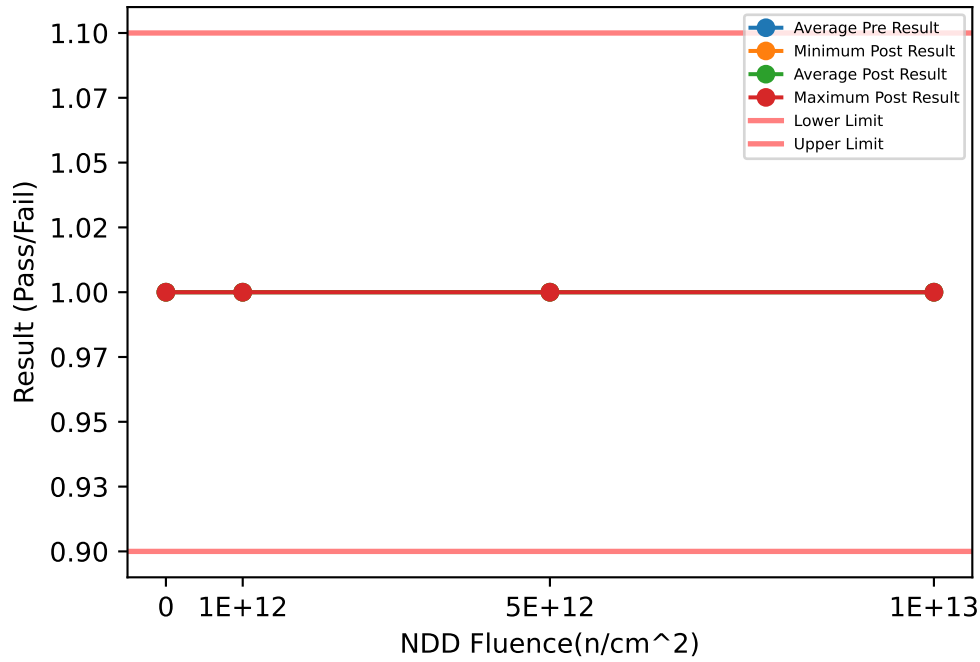


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.111 UJVVXI(EN4\_Logic\_Low\_Go-No-Go\_UJVVXI)

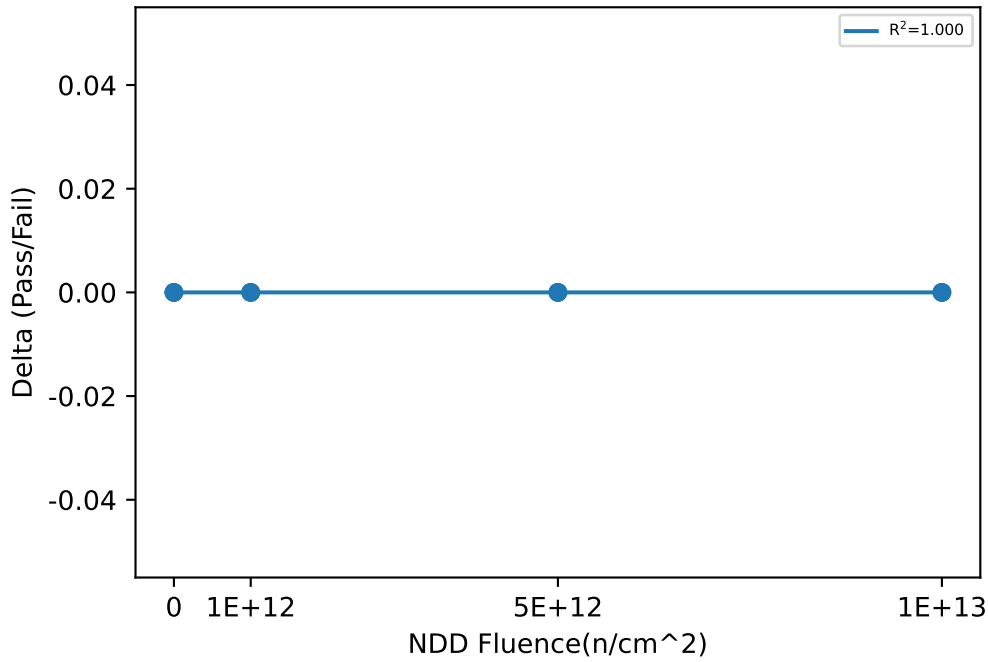
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

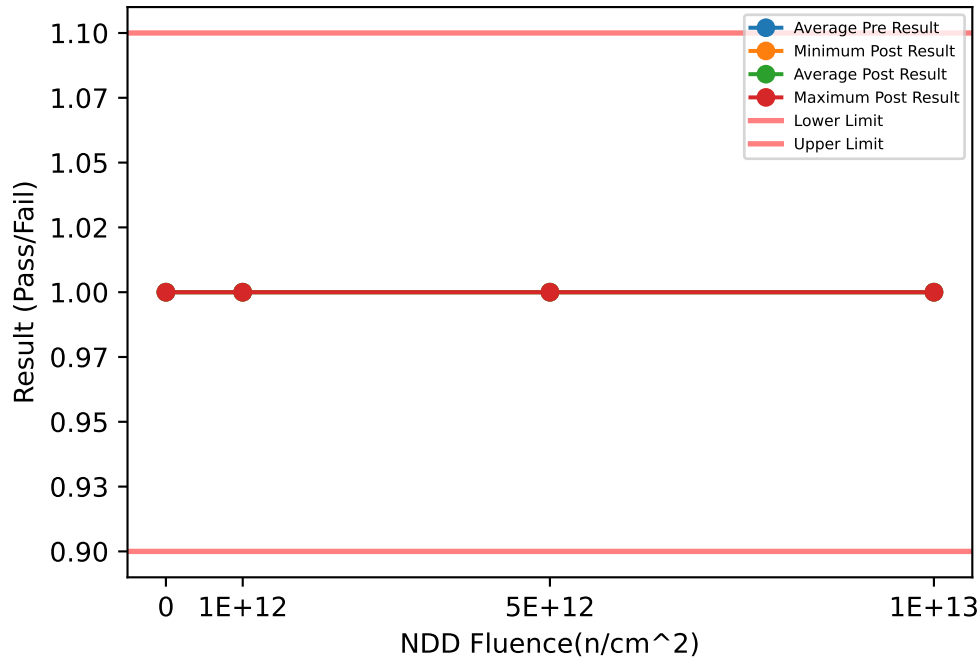


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.131 UJTCWZ(DIAG\_Logic\_High\_Go-No-Go\_UJTCWZ)

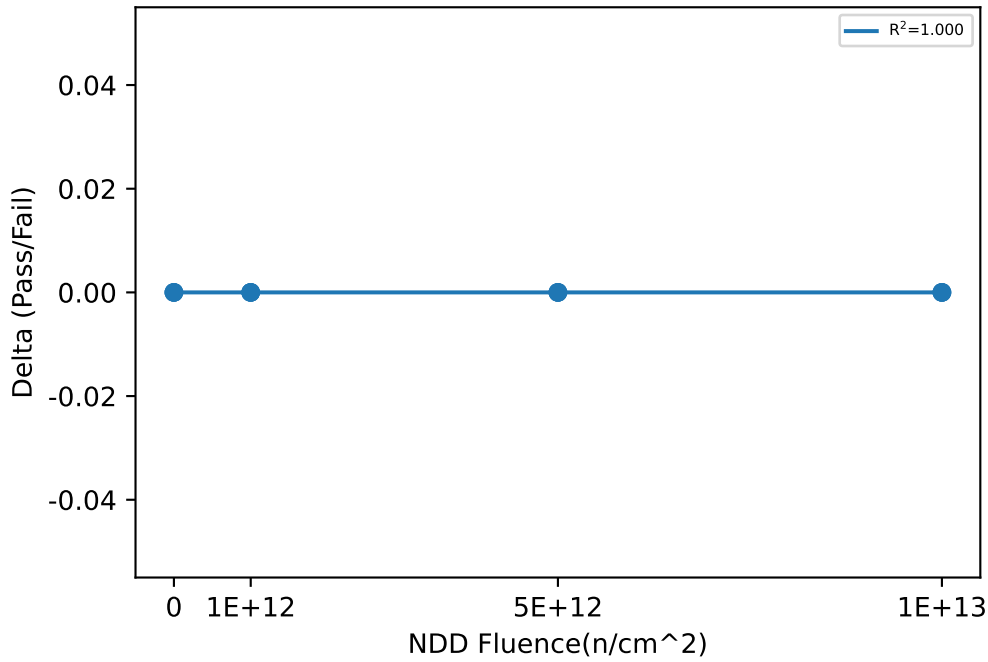
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

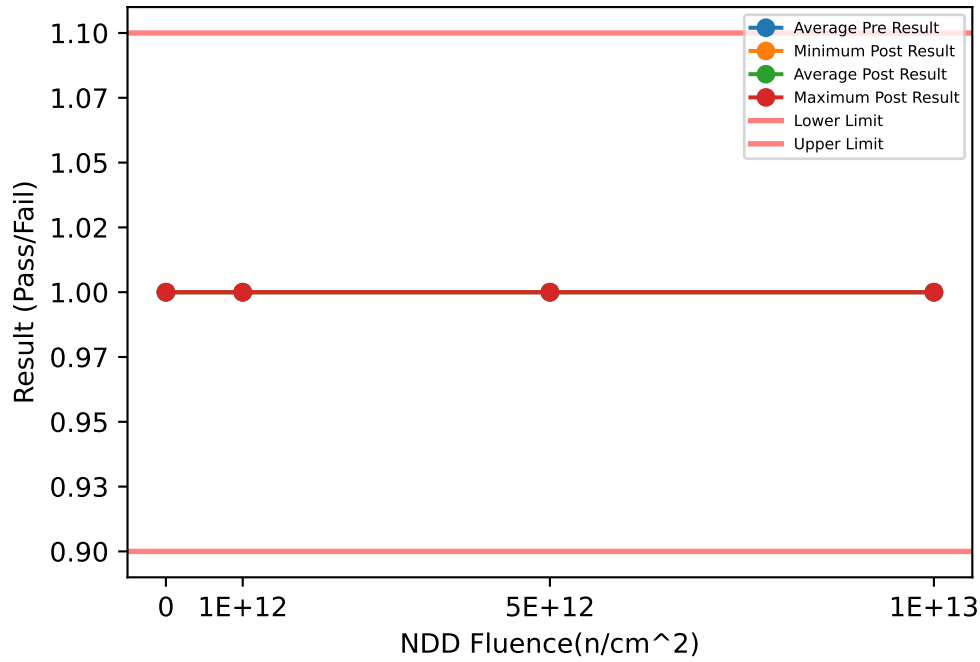


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.141 UJVVXI(DIAG\_Logic\_Low\_Go-No-Go\_UJVVXI)

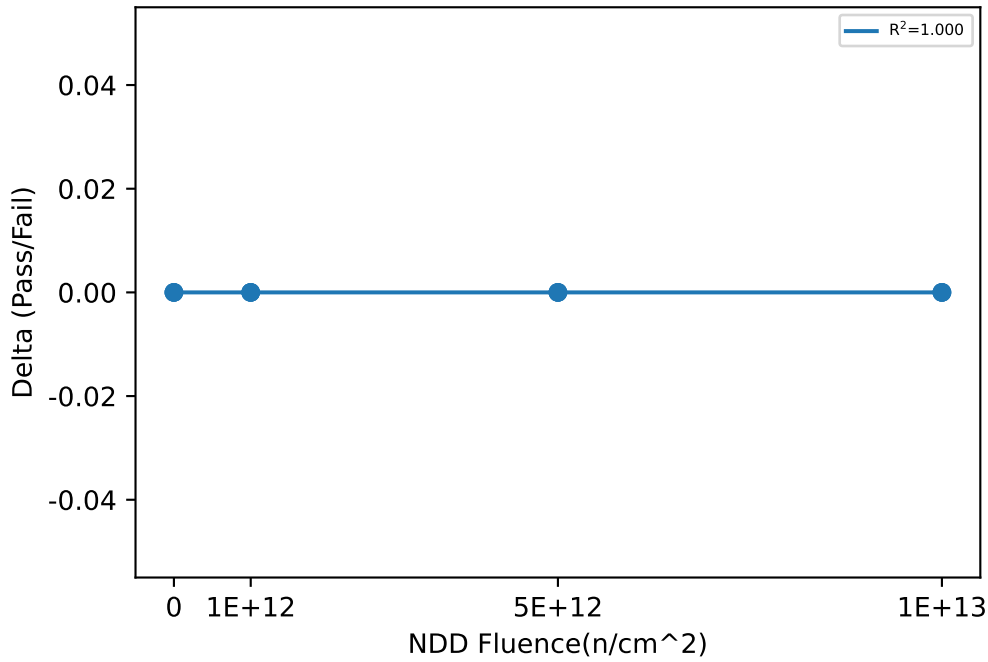
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

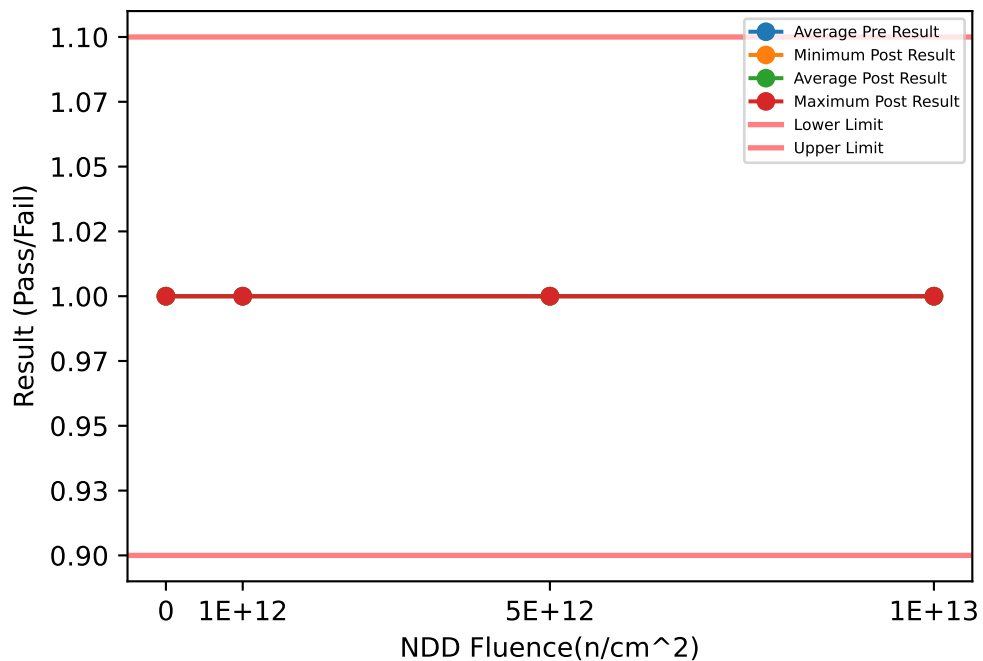


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.161 UJTCWZ(SEH\_Logic\_High\_Go-No-Go\_UJTCWZ)

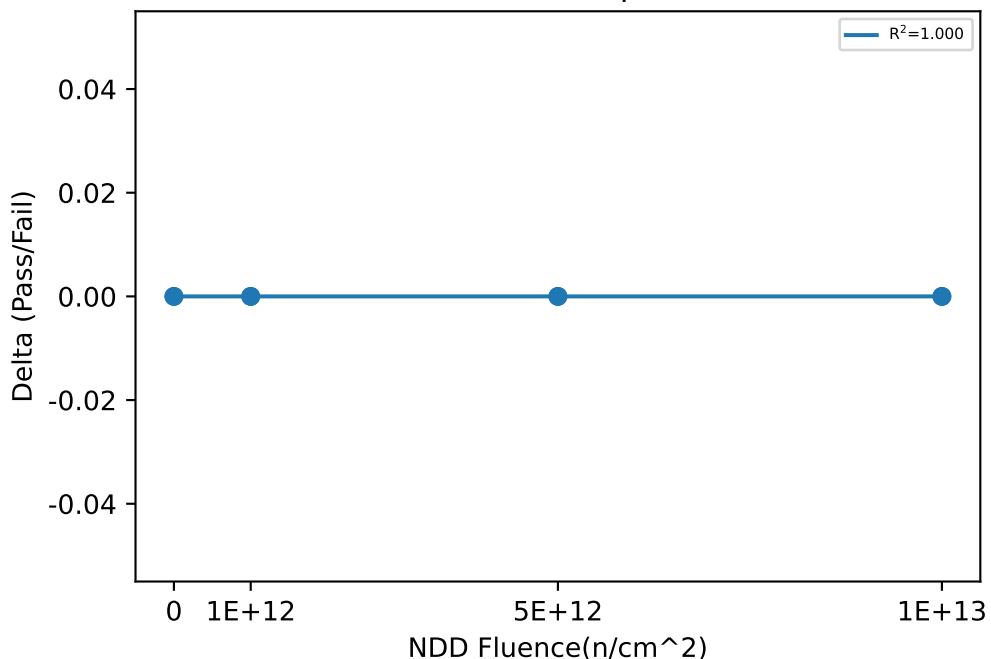
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

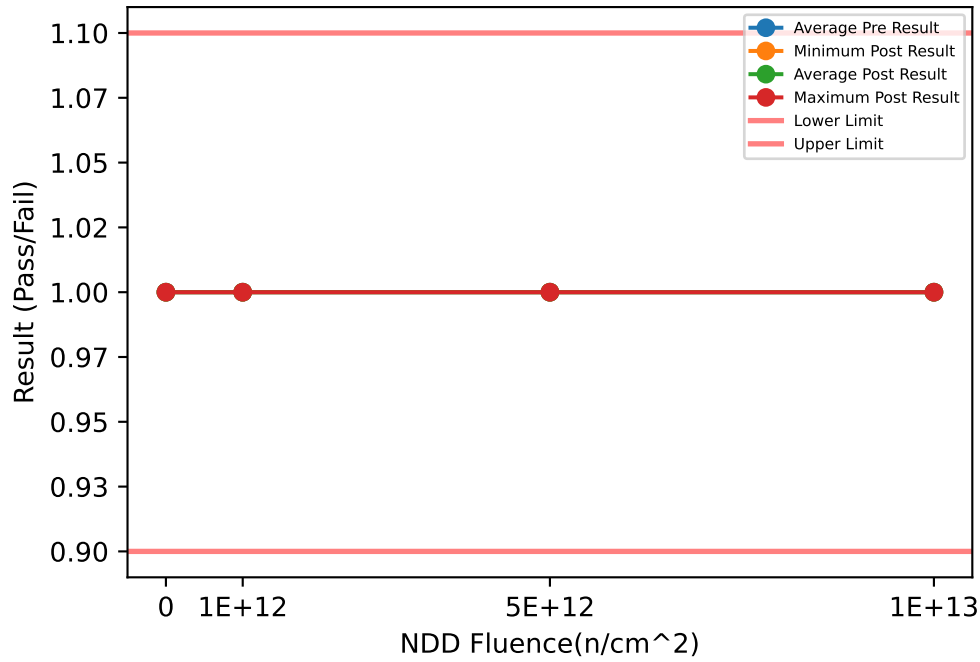


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.171 UJVVXI(SEH\_Logic\_Low\_Go-No-Go\_UJVVXI)

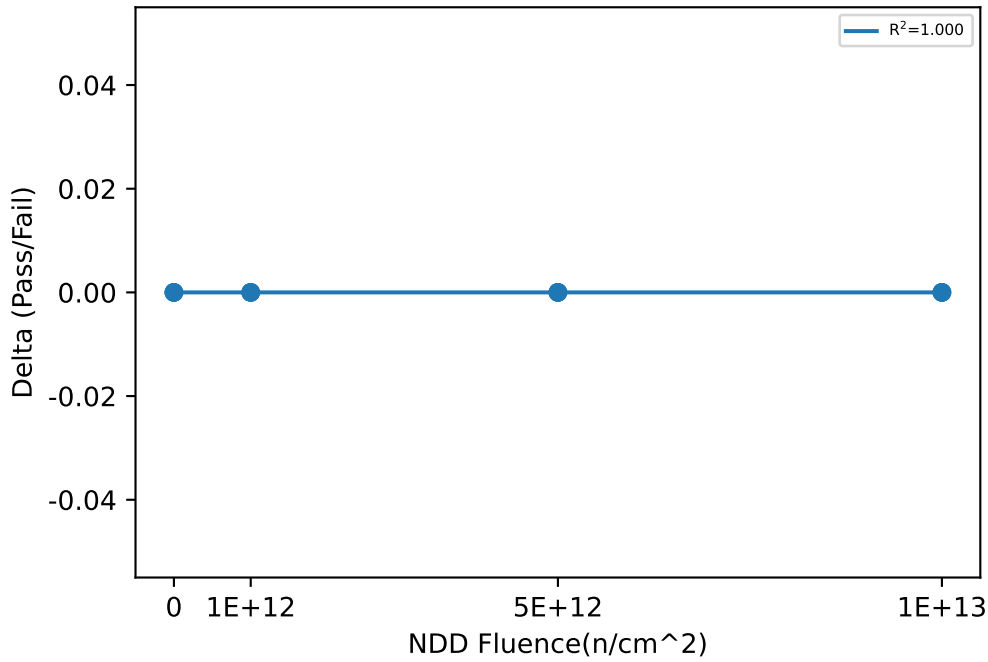
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta



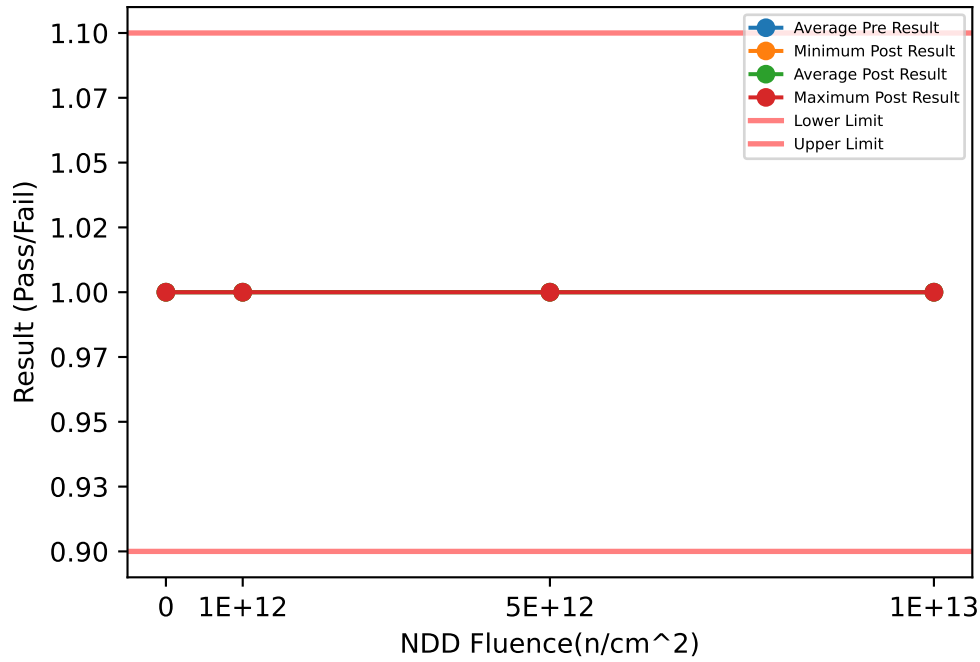
## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.191 UJTCWZ(SEL\_Logic\_High\_Go-No-Go\_UJTCWZ)

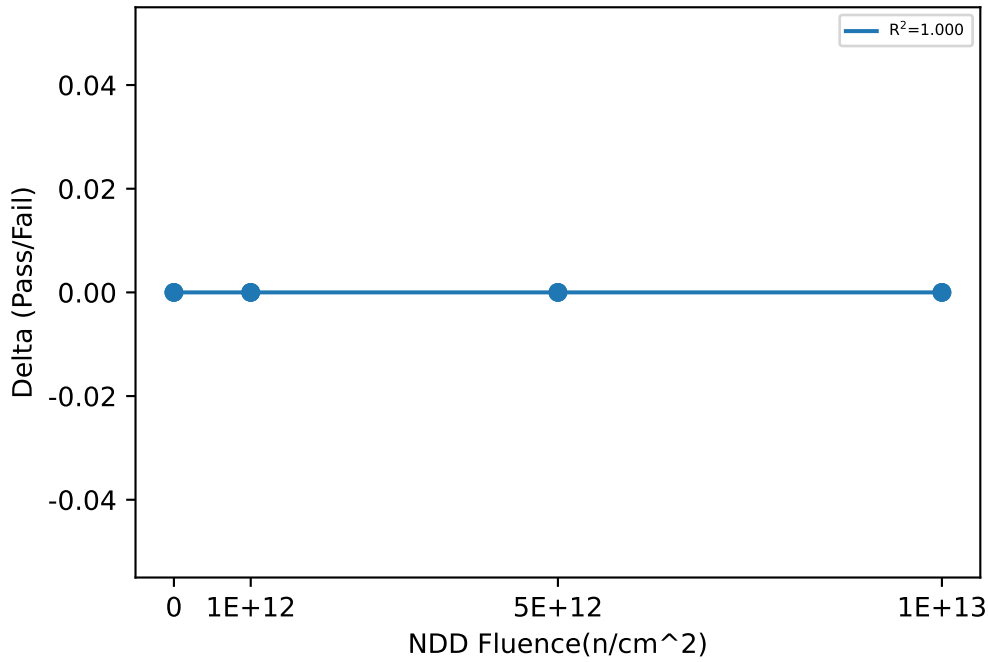
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

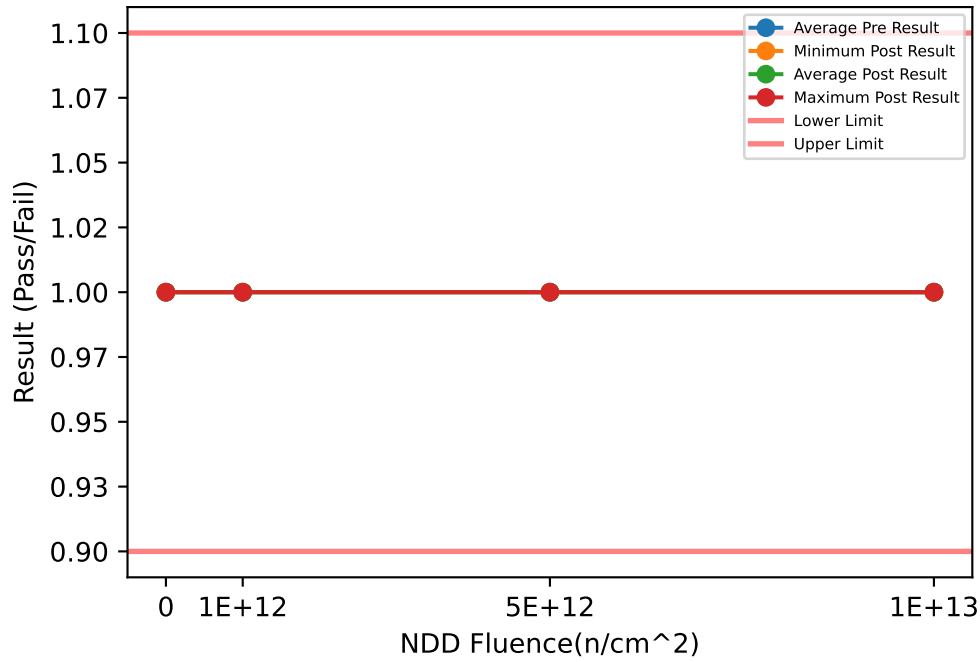


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.2001 UJVVXI(SEL\_Logic\_Low\_Go-No-Go\_UJVVXI)

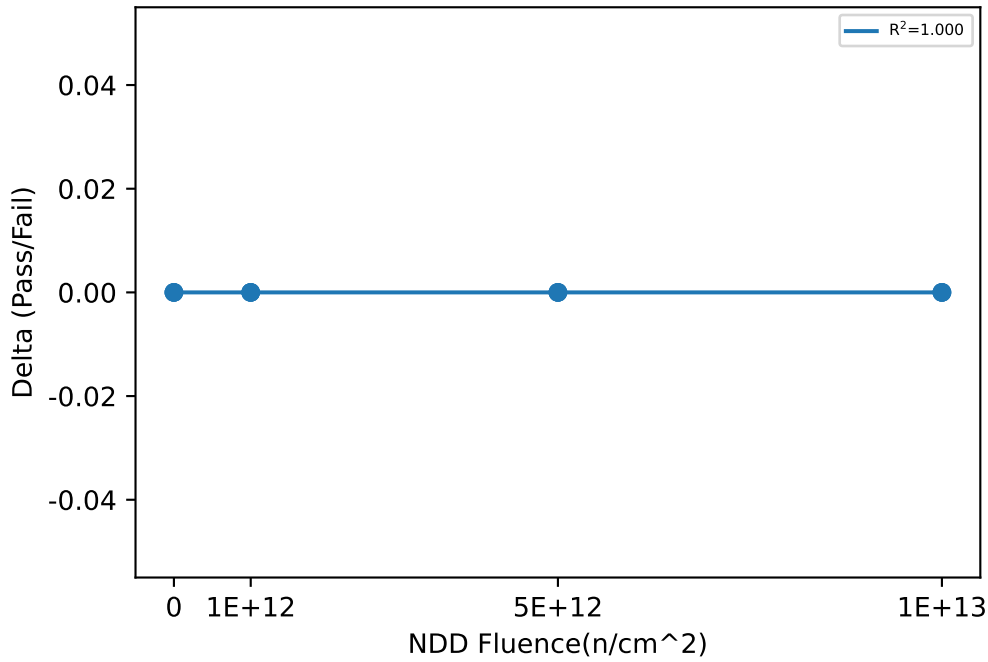
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

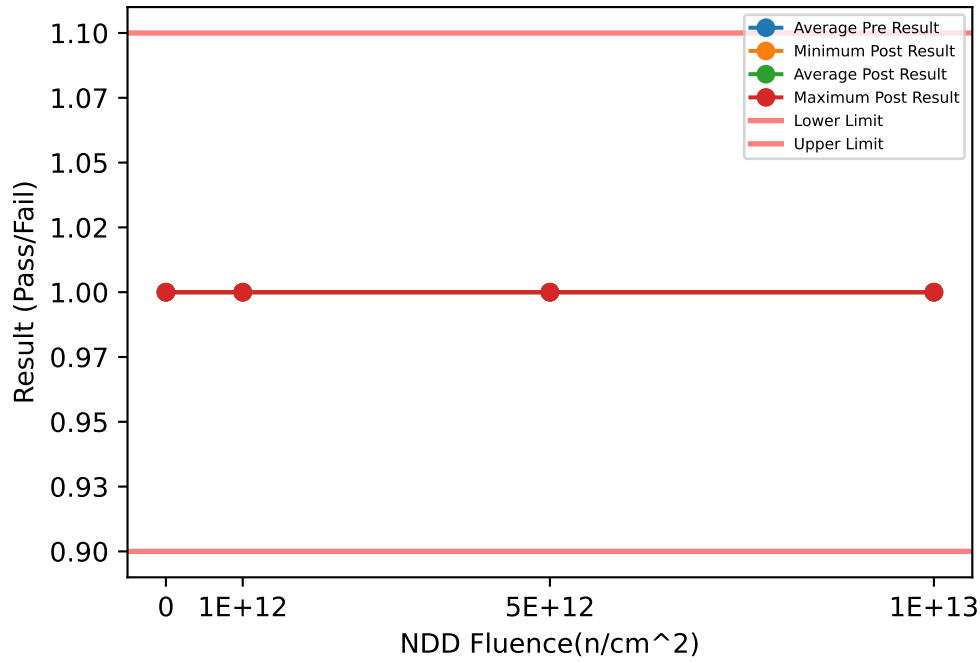


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.201 UJVVXI(EN1\_Logic\_Low\_Go-No-Go\_UJVVXI)

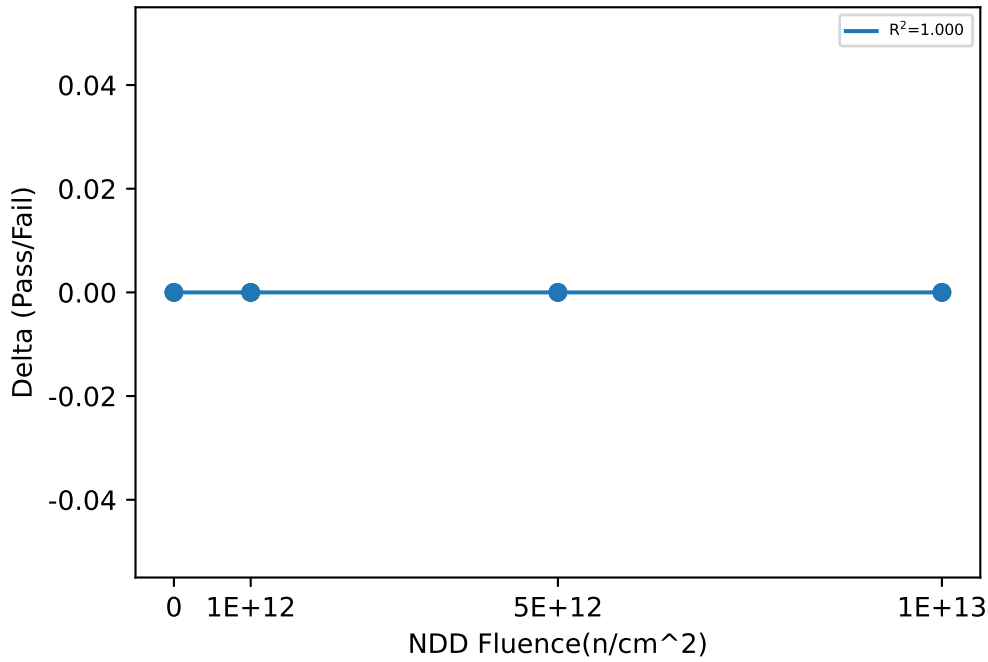
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

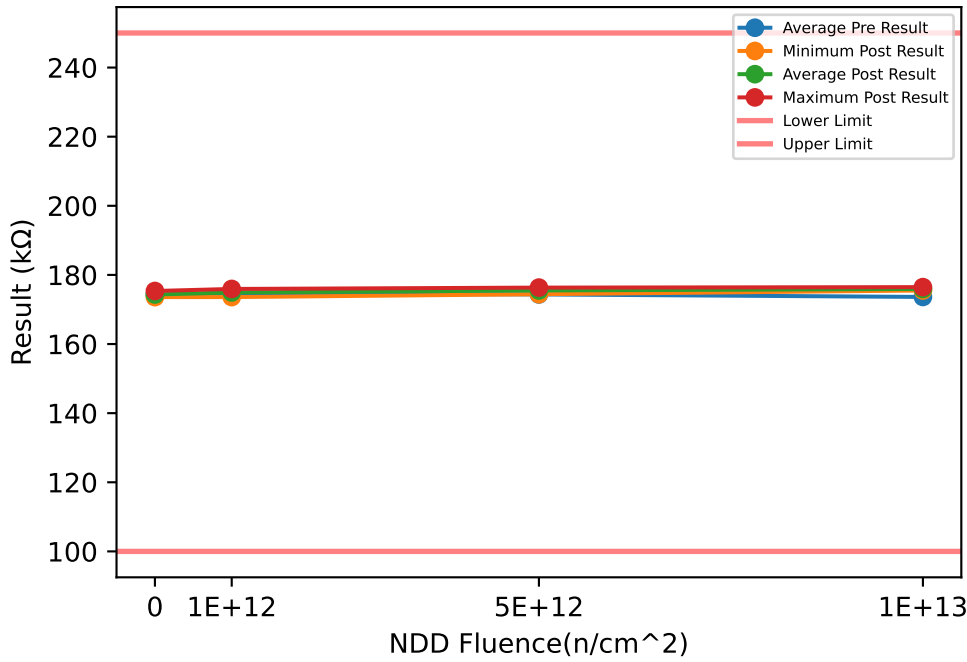


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.22 UJQE20(EN1\_Pulldown\_Resistor\_UJQE20)

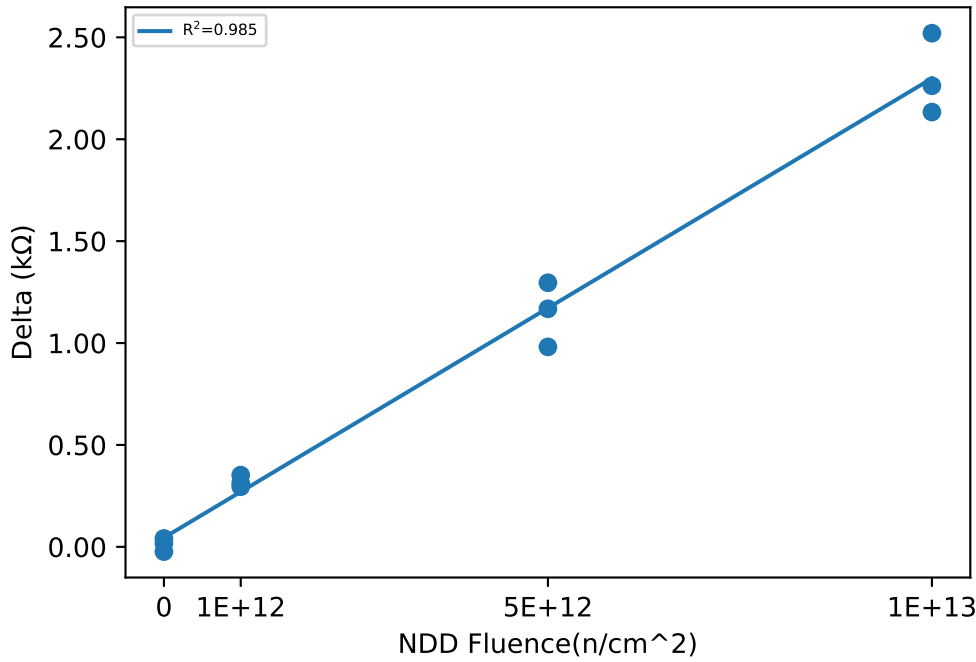
## NDD vs Result Stats



## Test Results (Lower Limit = 100.0, Upper Limit = 250.0 (kΩ))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	175.59	175.94	0.352
2	1e+12	NDD, unbiased	173.29	173.59	0.2952
3	1e+12	NDD, unbiased	174.94	175.26	0.3132
4	5e+12	NDD, unbiased	174.6	175.77	1.1681
5	5e+12	NDD, unbiased	175.03	176.33	1.2959
6	5e+12	NDD, unbiased	173.44	174.42	0.9813
7	1e+13	NDD, unbiased	173.23	175.49	2.2623
8	1e+13	NDD, unbiased	173.71	175.84	2.1333
9	1e+13	NDD, unbiased	173.95	176.47	2.5203
10	0	correlation	175.37	175.35	-0.0232
11	0	correlation	173.56	173.58	0.0168
12	0	correlation	174.03	174.07	0.0413

## NDD vs Post - Pre Exposure Delta

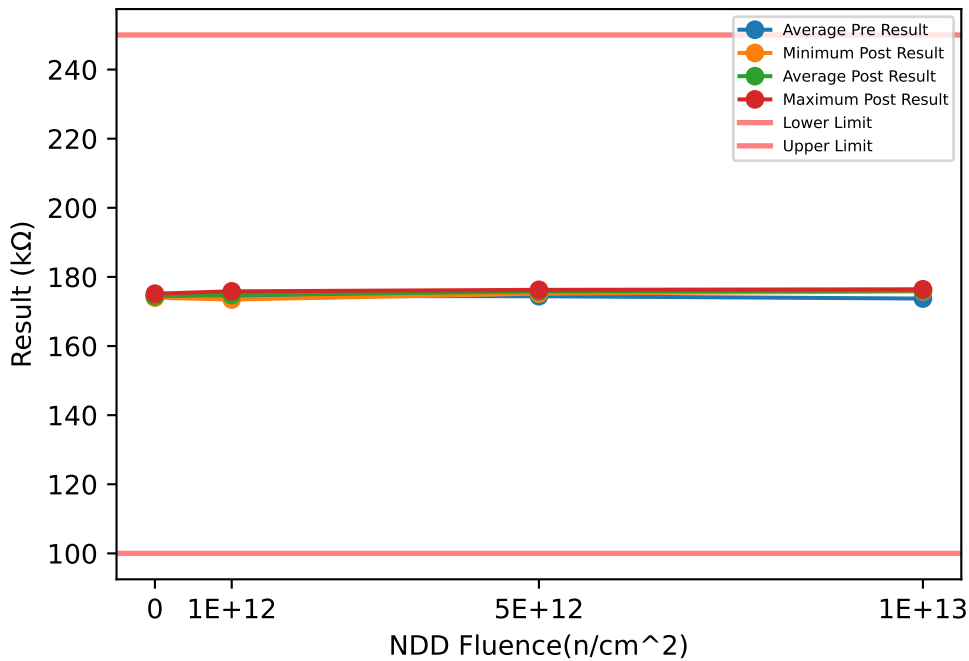


## Test Statistics (kΩ)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	173.56	174.32	175.37	0.93912	173.58	174.33	175.35	0.91317	-0.0232	0.011633	0.0413	0.032559
1e+12	173.29	174.61	175.59	1.1836	173.59	174.93	175.94	1.2097	0.2952	0.32013	0.352	0.029028
5e+12	173.44	174.36	175.03	0.82674	174.42	175.51	176.33	0.98342	0.9813	1.1484	1.2959	0.15822
1e+13	173.23	173.63	173.95	0.36448	175.49	175.93	176.47	0.49298	2.1333	2.3053	2.5203	0.19705

# Device Test: 7.23 UJQE20(EN2\_Pulldown\_Resistor\_UJQE20)

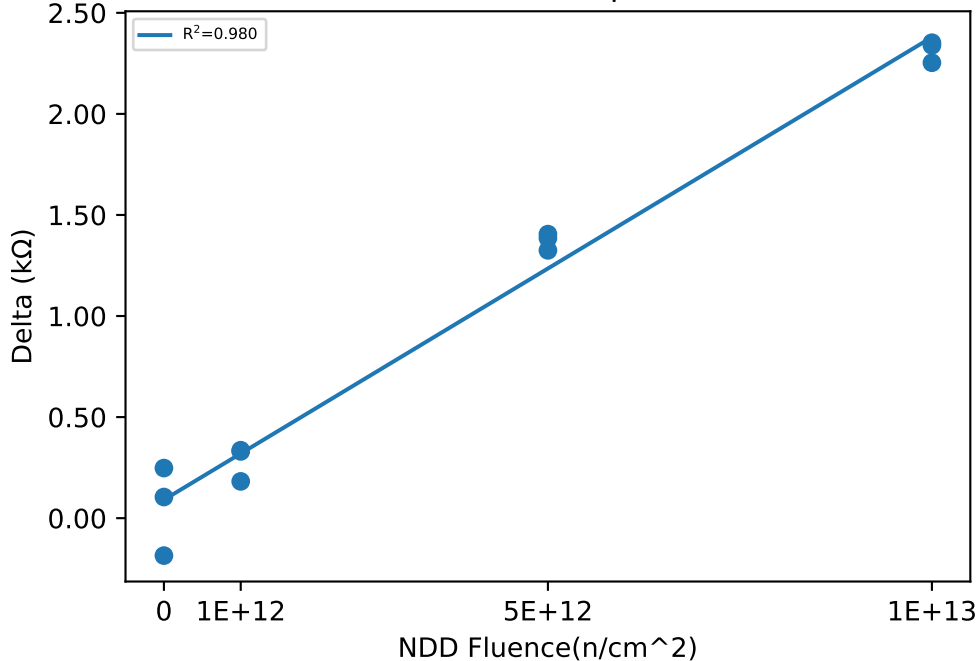
## NDD vs Result Stats



## Test Results (Lower Limit = 100.0, Upper Limit = 250.0 (kΩ))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	175.65	175.83	0.1819
2	1e+12	NDD, unbiased	173.12	173.45	0.3302
3	1e+12	NDD, unbiased	174.67	175.01	0.3362
4	5e+12	NDD, unbiased	174.54	175.93	1.3854
5	5e+12	NDD, unbiased	174.94	176.26	1.3249
6	5e+12	NDD, unbiased	173.75	175.15	1.4052
7	1e+13	NDD, unbiased	173.55	175.81	2.2531
8	1e+13	NDD, unbiased	173.57	175.92	2.3522
9	1e+13	NDD, unbiased	174.09	176.43	2.3391
10	0	correlation	174.9	175.15	0.2478
11	0	correlation	174.18	174	-0.1852
12	0	correlation	174.04	174.15	0.1046

## NDD vs Post - Pre Exposure Delta

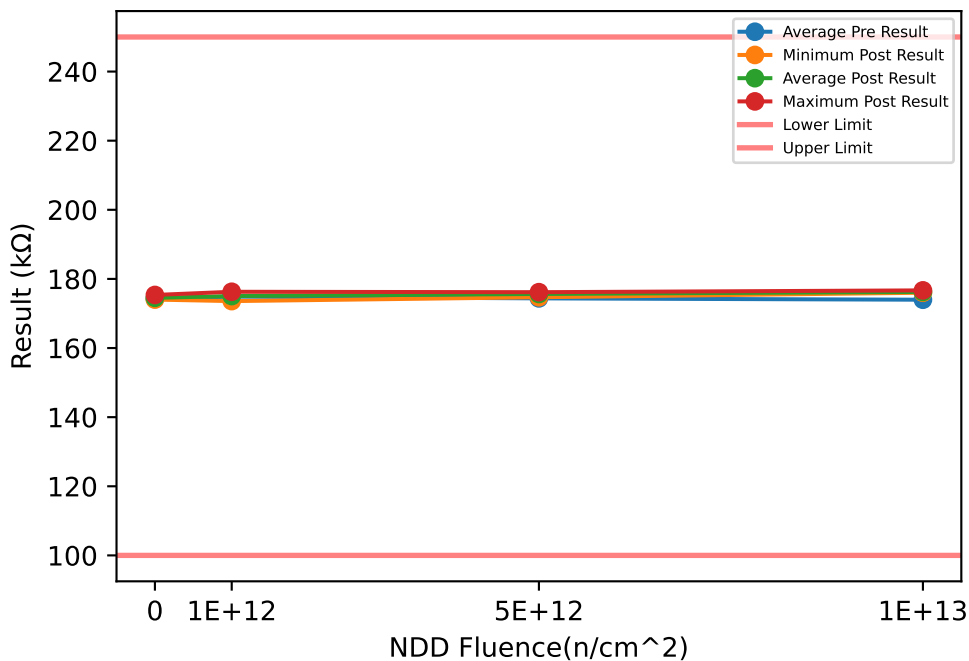


## Test Statistics (kΩ)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	174.04	174.38	174.9	0.46338	174	174.43	175.15	0.62883	-0.1852	0.055733	0.2478	0.2206
1e+12	173.12	174.48	175.65	1.2743	173.45	174.76	175.83	1.2081	0.1819	0.28277	0.3362	0.087405
5e+12	173.75	174.41	174.94	0.60564	175.15	175.78	176.26	0.56879	1.3249	1.3718	1.4052	0.041834
1e+13	173.55	173.74	174.09	0.30451	175.81	176.05	176.43	0.33046	2.2531	2.3148	2.3522	0.053834

# Device Test: 7.24 UJQE20(EN3\_Pulldown\_Resistor\_UJQE20)

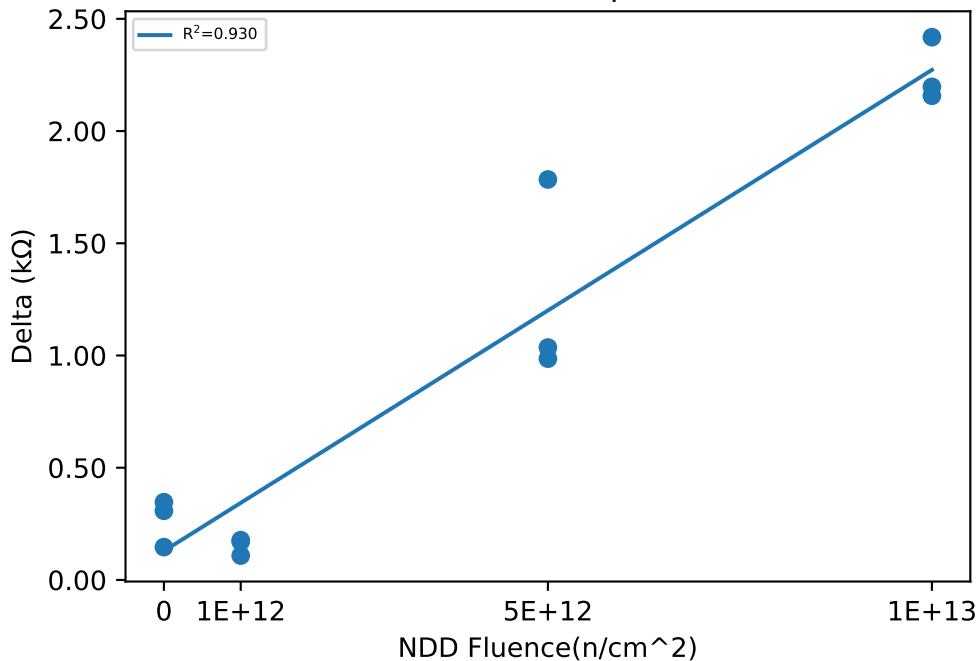
## NDD vs Result Stats



## Test Results (Lower Limit = 100.0, Upper Limit = 250.0 (kΩ))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	176.11	176.28	0.1708
2	1e+12	NDD, unbiased	173.4	173.58	0.1773
3	1e+12	NDD, unbiased	175.14	175.25	0.1085
4	5e+12	NDD, unbiased	174.28	176.06	1.7842
5	5e+12	NDD, unbiased	175.13	176.16	1.0355
6	5e+12	NDD, unbiased	173.71	174.7	0.986
7	1e+13	NDD, unbiased	173.8	176	2.1969
8	1e+13	NDD, unbiased	173.61	176.03	2.4181
9	1e+13	NDD, unbiased	174.53	176.68	2.1572
10	0	correlation	175.05	175.36	0.3081
11	0	correlation	174.09	174.23	0.1462
12	0	correlation	173.67	174.02	0.3465

## NDD vs Post - Pre Exposure Delta

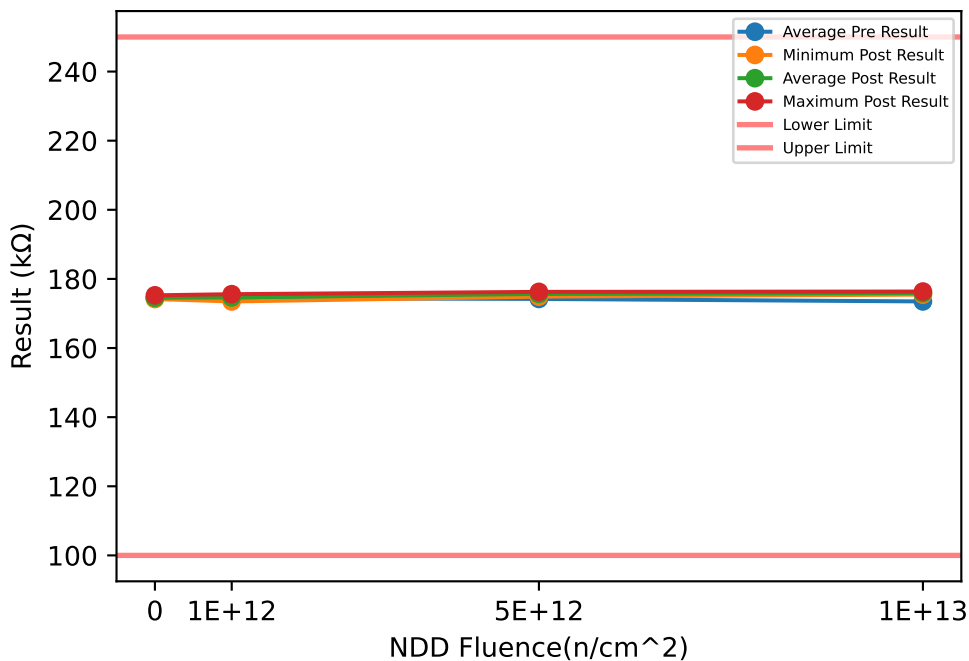


## Test Statistics (kΩ)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	173.67	174.27	175.05	0.70689	174.02	174.54	175.36	0.71923	0.1462	0.26693	0.3465	0.10631
1e+12	173.4	174.89	176.11	1.371	173.58	175.04	176.28	1.3622	0.1085	0.1522	0.1773	0.037985
5e+12	173.71	174.37	175.13	0.71294	174.7	175.64	176.16	0.81832	0.986	1.2686	1.7842	0.44724
1e+13	173.61	173.98	174.53	0.48308	176	176.24	176.68	0.38696	2.1572	2.2574	2.4181	0.14058

# Device Test: 7.25 UJQE20(EN4\_Pulldown\_Resistor\_UJQE20)

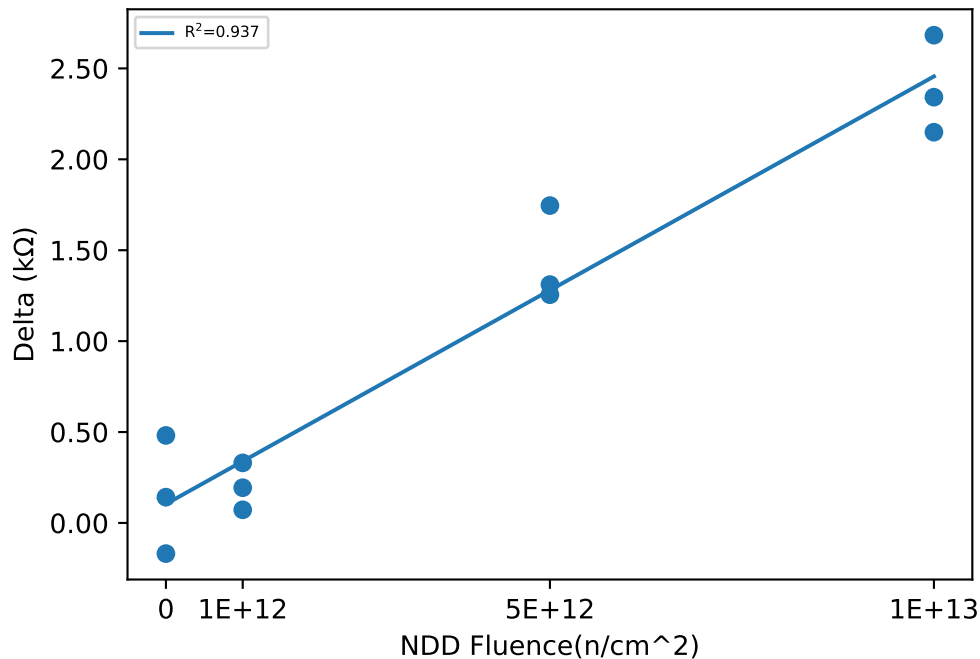
## NDD vs Result Stats



## Test Results (Lower Limit = 100.0, Upper Limit = 250.0 (kΩ))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	175.39	175.58	0.1938
2	1e+12	NDD, unbiased	173.15	173.48	0.3303
3	1e+12	NDD, unbiased	174.84	174.91	0.0723
4	5e+12	NDD, unbiased	174.07	175.81	1.7456
5	5e+12	NDD, unbiased	174.94	176.25	1.3111
6	5e+12	NDD, unbiased	173.62	174.88	1.2554
7	1e+13	NDD, unbiased	173.31	175.46	2.1491
8	1e+13	NDD, unbiased	173.14	175.83	2.6827
9	1e+13	NDD, unbiased	174.01	176.35	2.3418
10	0	correlation	175.11	175.25	0.1419
11	0	correlation	174.35	174.18	-0.1686
12	0	correlation	173.76	174.24	0.4814

## NDD vs Post - Pre Exposure Delta

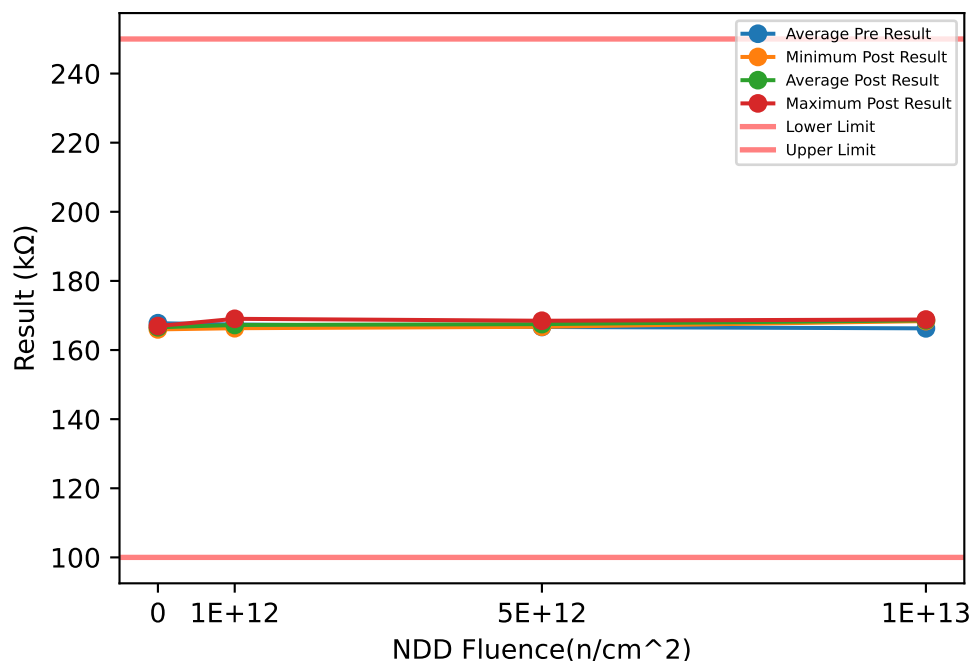


## Test Statistics (kΩ)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	173.76	174.41	175.11	0.67936	174.18	174.56	175.25	0.60456	-0.1686	0.15157	0.4814	0.32511
1e+12	173.15	174.46	175.39	1.1674	173.48	174.66	175.58	1.0744	0.0723	0.1988	0.3303	0.12907
5e+12	173.62	174.21	174.94	0.67186	174.88	175.65	176.25	0.70303	1.2554	1.4374	1.7456	0.26839
1e+13	173.14	173.49	174.01	0.45793	175.46	175.88	176.35	0.4466	2.1491	2.3912	2.6827	0.27021

# Device Test: 7.26 UJQE20(SEH\_Pulldown\_Resistor\_UJQE20)

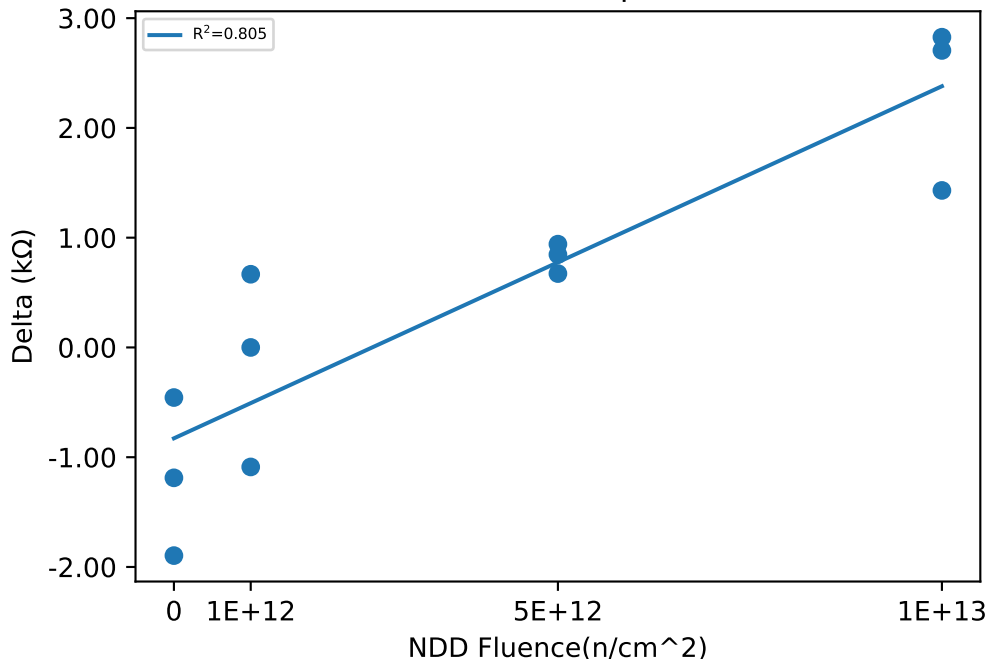
## NDD vs Result Stats



## Test Results (Lower Limit = 100.0, Upper Limit = 250.0 (kΩ))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	168.37	169.03	0.6668
2	1e+12	NDD, unbiased	166.31	166.31	0
3	1e+12	NDD, unbiased	167.49	166.4	-1.0887
4	5e+12	NDD, unbiased	167.54	168.48	0.941
5	5e+12	NDD, unbiased	166.61	167.29	0.673
6	5e+12	NDD, unbiased	165.88	166.73	0.8465
7	1e+13	NDD, unbiased	165.54	168.37	2.8265
8	1e+13	NDD, unbiased	166.12	168.83	2.7058
9	1e+13	NDD, unbiased	167.16	168.59	1.4305
10	0	correlation	167.4	166.94	-0.4564
11	0	correlation	168.04	166.85	-1.1879
12	0	correlation	167.87	165.97	-1.8964

## NDD vs Post - Pre Exposure Delta



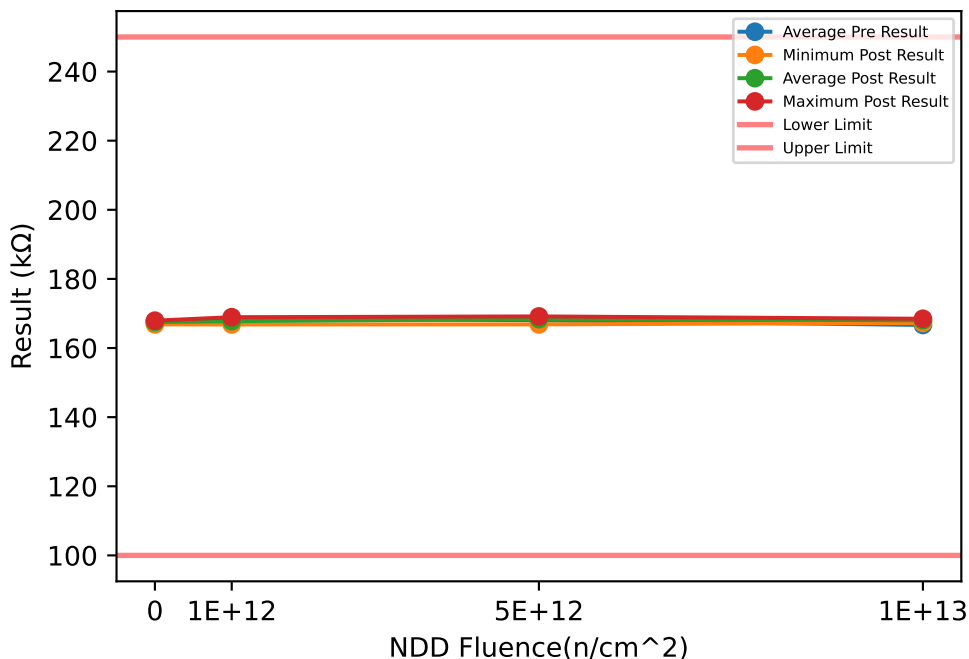
## Test Statistics (kΩ)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	167.4	167.77	168.04	0.33272	165.97	166.59	166.94	0.53657	-1.8964	-1.1802	-0.4564	0.72003
1e+12	166.31	167.39	168.37	1.032	166.31	167.25	169.03	1.5468	-1.0887	-0.14063	0.6668	0.88616
5e+12	165.88	166.68	167.54	0.83022	166.73	167.5	168.48	0.89435	0.673	0.82017	0.941	0.13593
1e+13	165.54	166.27	167.16	0.81922	168.37	168.59	168.83	0.23162	1.4305	2.3209	2.8265	0.7735



# Device Test: 7.27 UJQE20(SEL\_Pulldown\_Resistor\_UJQE20)

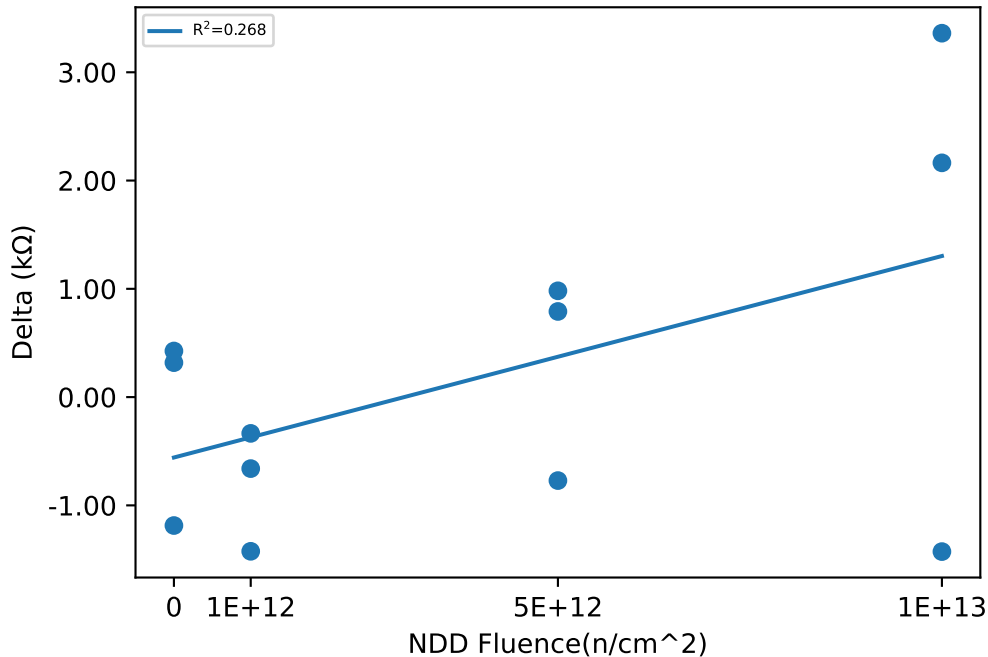
## NDD vs Result Stats



## Test Results (Lower Limit = 100.0, Upper Limit = 250.0 (kΩ))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	168.26	167.6	-0.6603
2	1e+12	NDD, unbiased	168.25	166.82	-1.4242
3	1e+12	NDD, unbiased	169.26	168.92	-0.3351
4	5e+12	NDD, unbiased	167.61	166.84	-0.771
5	5e+12	NDD, unbiased	168.15	169.14	0.9817
6	5e+12	NDD, unbiased	168.36	169.15	0.791
7	1e+13	NDD, unbiased	168.7	167.28	-1.4269
8	1e+13	NDD, unbiased	166.3	168.47	2.1635
9	1e+13	NDD, unbiased	165.01	168.37	3.3609
10	0	correlation	168.03	166.84	-1.1861
11	0	correlation	167.6	167.92	0.3182
12	0	correlation	167.39	167.82	0.4258

## NDD vs Post - Pre Exposure Delta

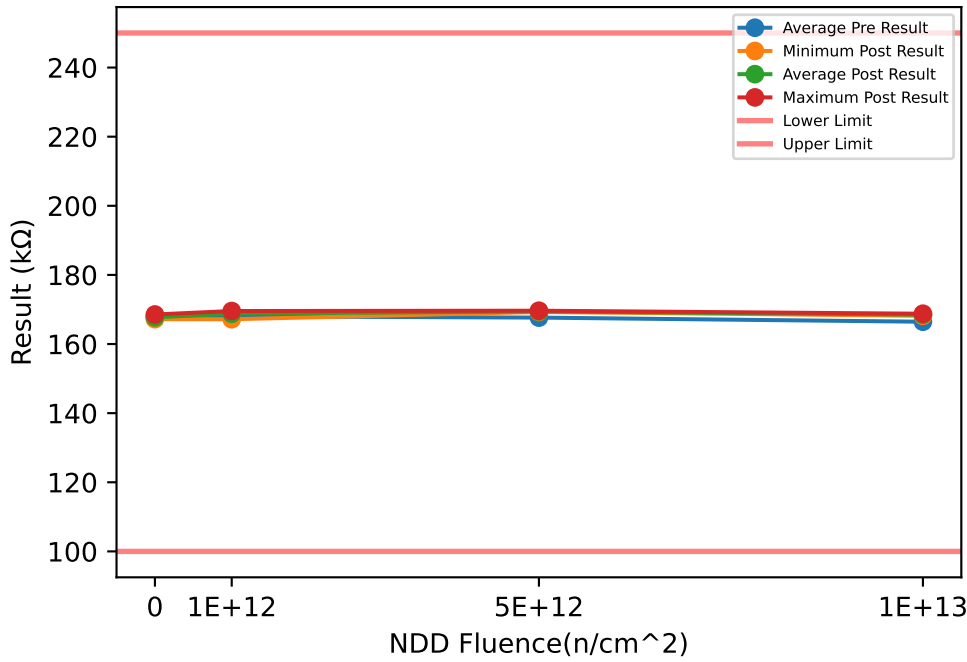


## Test Statistics (kΩ)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	167.39	167.67	168.03	0.32358	166.84	167.52	167.92	0.59486	-1.1861	-0.14737	0.4258	0.90118
1e+12	168.25	168.59	169.26	0.58021	166.82	167.78	168.92	1.0628	-1.4242	-0.80653	-0.3351	0.55908
5e+12	167.61	168.04	168.36	0.38582	166.84	168.37	169.15	1.329	-0.771	0.3339	0.9817	0.96161
1e+13	165.01	166.67	168.7	1.8719	167.28	168.04	168.47	0.66315	-1.4269	1.3658	3.3609	2.4916

# Device Test: 7.28 UJQE20(THER\_Pulldown\_Resistor\_UJQE20)

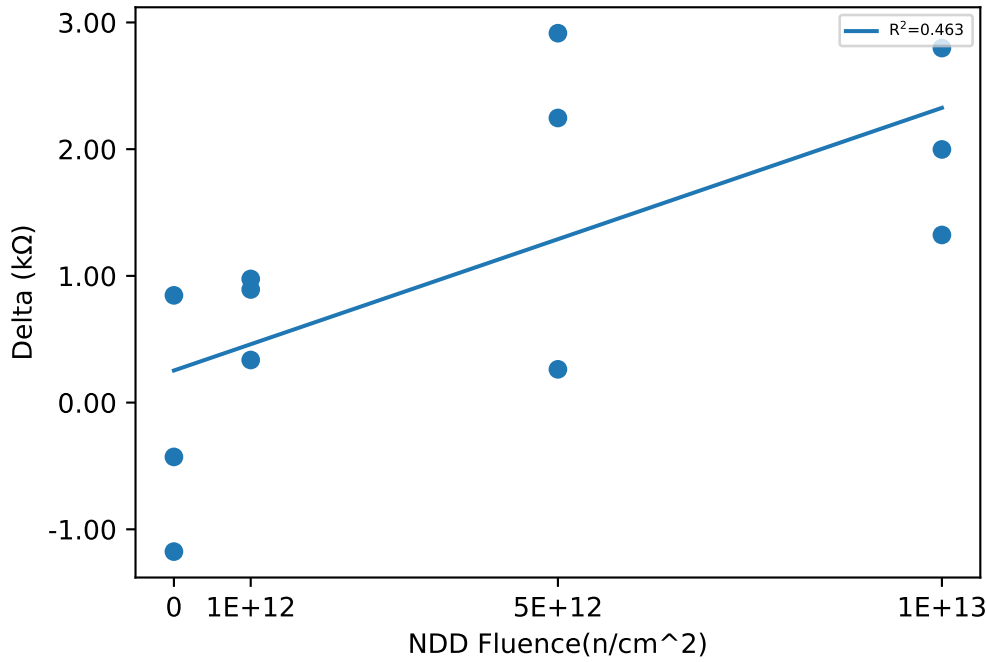
## NDD vs Result Stats



## Test Results (Lower Limit = 100.0, Upper Limit = 250.0 (kΩ))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	168.66	169.55	0.8925
2	1e+12	NDD, unbiased	166.2	167.18	0.9759
3	1e+12	NDD, unbiased	169.2	169.53	0.3362
4	5e+12	NDD, unbiased	169.18	169.44	0.2625
5	5e+12	NDD, unbiased	166.36	169.28	2.9152
6	5e+12	NDD, unbiased	167.4	169.64	2.2461
7	1e+13	NDD, unbiased	166.55	168.55	1.9978
8	1e+13	NDD, unbiased	165.37	168.17	2.7979
9	1e+13	NDD, unbiased	167.45	168.77	1.3229
10	0	correlation	169.73	168.55	-1.1759
11	0	correlation	166.66	167.51	0.8463
12	0	correlation	167.63	167.21	-0.4287

## NDD vs Post - Pre Exposure Delta

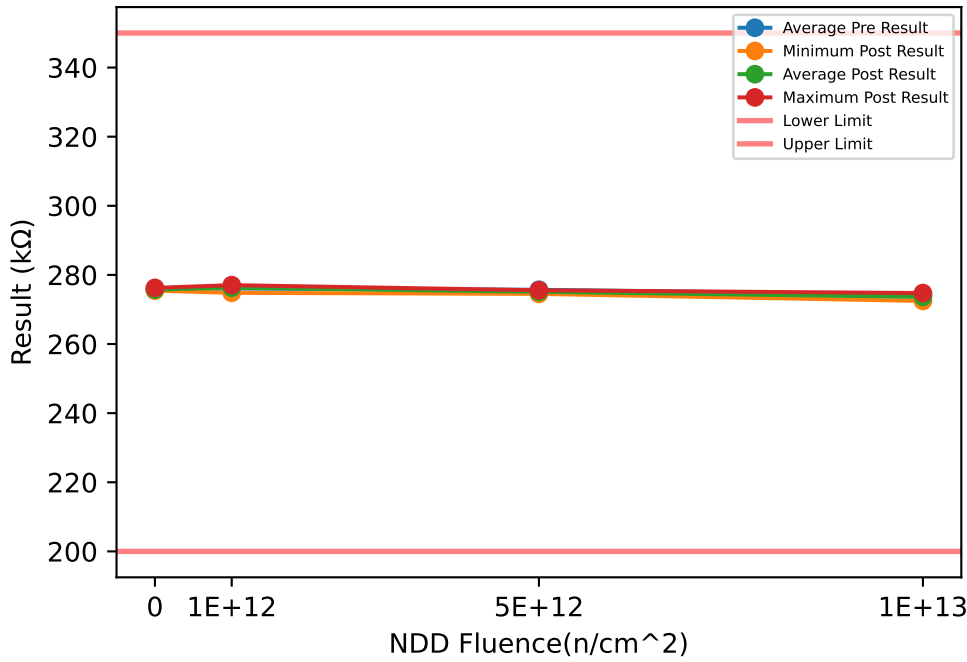


## Test Statistics (kΩ)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	166.66	168.01	169.73	1.5663	167.21	167.76	168.55	0.70562	-1.1759	-0.25277	0.8463	1.0225
1e+12	166.2	168.02	169.2	1.5956	167.18	168.76	169.55	1.3644	0.3362	0.73487	0.9759	0.34776
5e+12	166.36	167.65	169.18	1.4247	169.28	169.46	169.64	0.18349	0.2625	1.8079	2.9152	1.3796
1e+13	165.37	166.46	167.45	1.0434	168.17	168.5	168.77	0.30622	1.3229	2.0395	2.7979	0.73839

# Device Test: 7.29 UJCQ9J(DIAG\_Pulldown\_Resistor\_UJCQ9J)

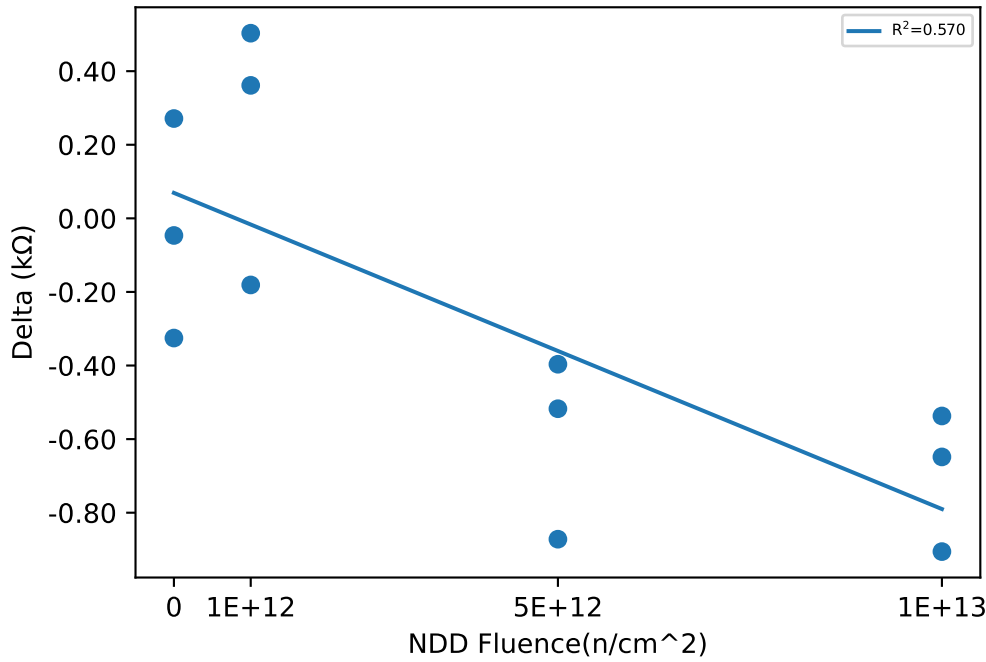
## NDD vs Result Stats



## Test Results (Lower Limit = 200.0, Upper Limit = 350.0 (kΩ))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	277.21	277.03	-0.181
2	1e+12	NDD, unbiased	274.31	274.81	0.5032
3	1e+12	NDD, unbiased	276.68	277.04	0.3614
4	5e+12	NDD, unbiased	275.66	275.26	-0.3965
5	5e+12	NDD, unbiased	276.43	275.56	-0.872
6	5e+12	NDD, unbiased	275.02	274.5	-0.5174
7	1e+13	NDD, unbiased	273	272.47	-0.5371
8	1e+13	NDD, unbiased	275.66	274.75	-0.9057
9	1e+13	NDD, unbiased	274.29	273.64	-0.6484
10	0	correlation	276.57	276.25	-0.3253
11	0	correlation	275.48	275.44	-0.0465
12	0	correlation	275.3	275.57	0.2713

## NDD vs Post - Pre Exposure Delta

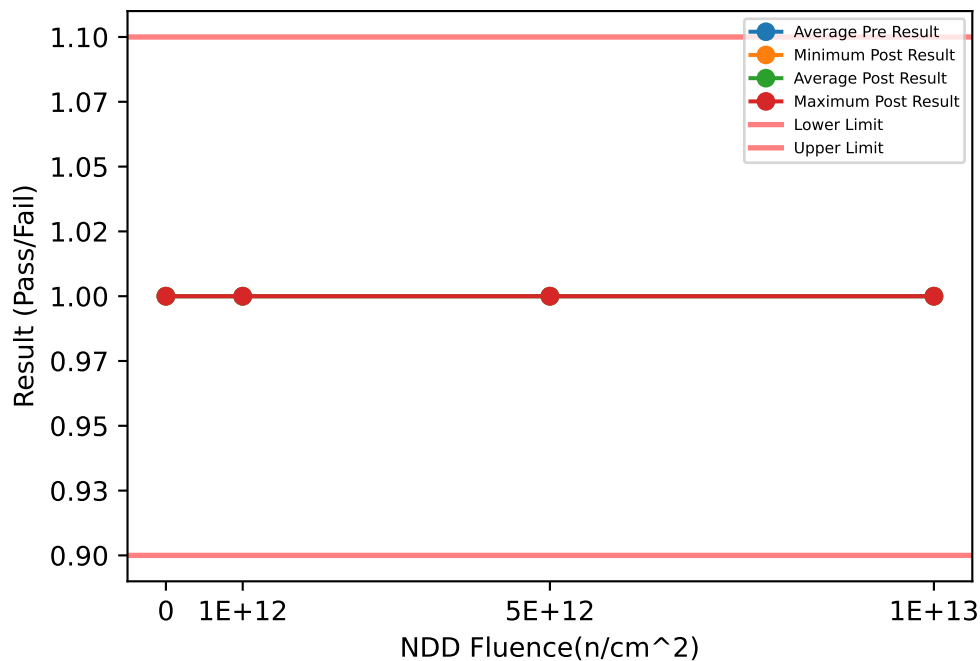


## Test Statistics (kΩ)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	275.3	275.79	276.57	0.68788	275.44	275.75	276.25	0.4345	-0.3253	-0.0335	0.2713	0.29851
1e+12	274.31	276.07	277.21	1.5448	274.81	276.3	277.04	1.2836	-0.181	0.22787	0.5032	0.36112
5e+12	275.02	275.7	276.43	0.7048	274.5	275.11	275.56	0.54343	-0.872	-0.5953	-0.3965	0.24714
1e+13	273	274.32	275.66	1.329	272.47	273.62	274.75	1.1445	-0.9057	-0.69707	-0.5371	0.18906

# Device Test: 7.401 UJTCWZ(EN2\_Logic\_High\_Go-No-Go\_UJTCWZ)

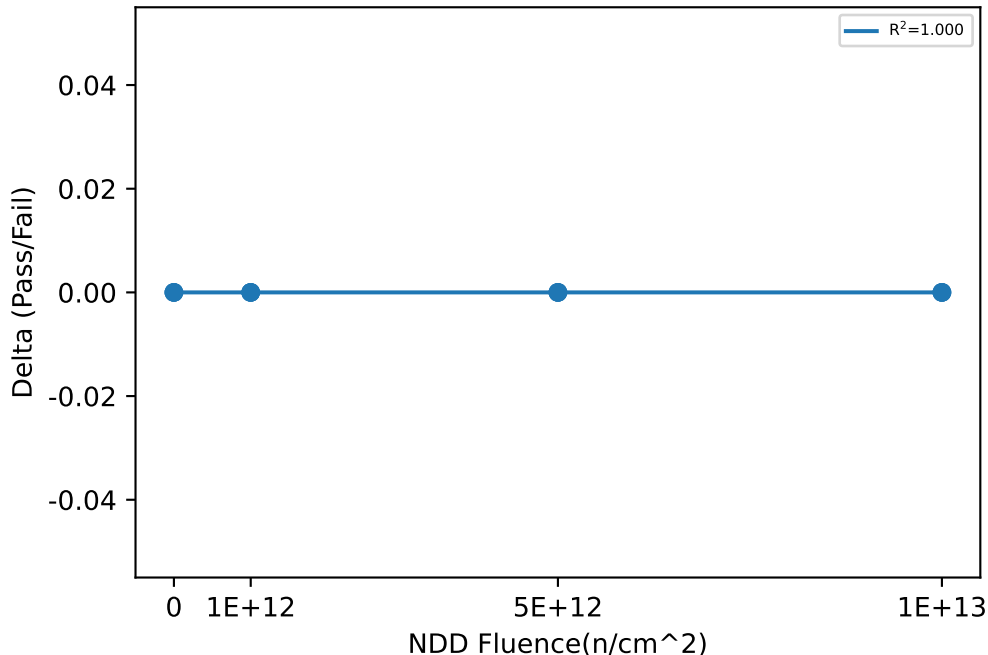
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

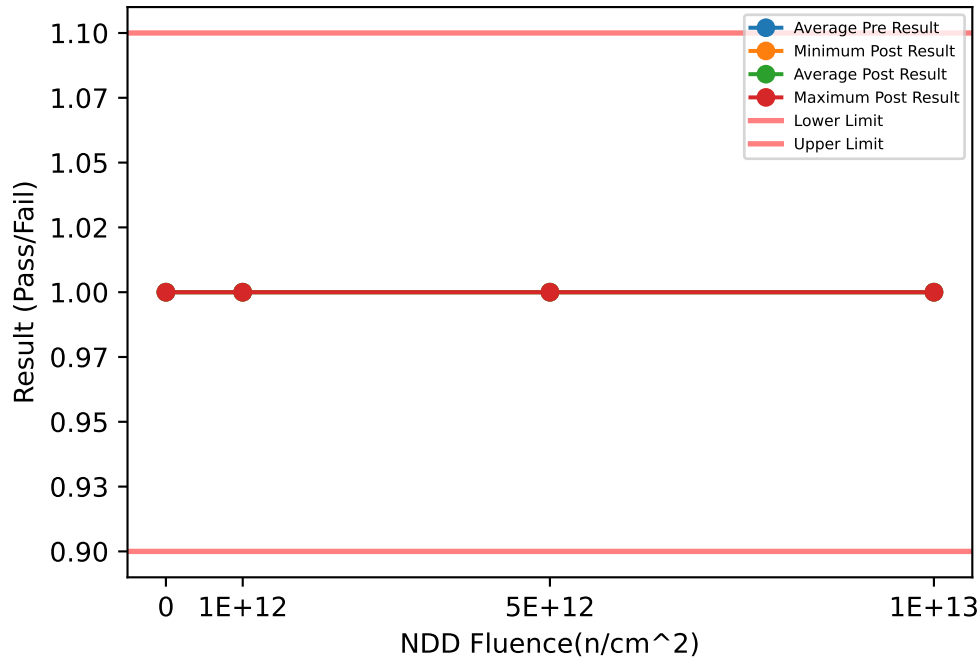


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.501 UJVVXI(EN2\_Logic\_Low\_Go-No-Go\_UJVVXI)

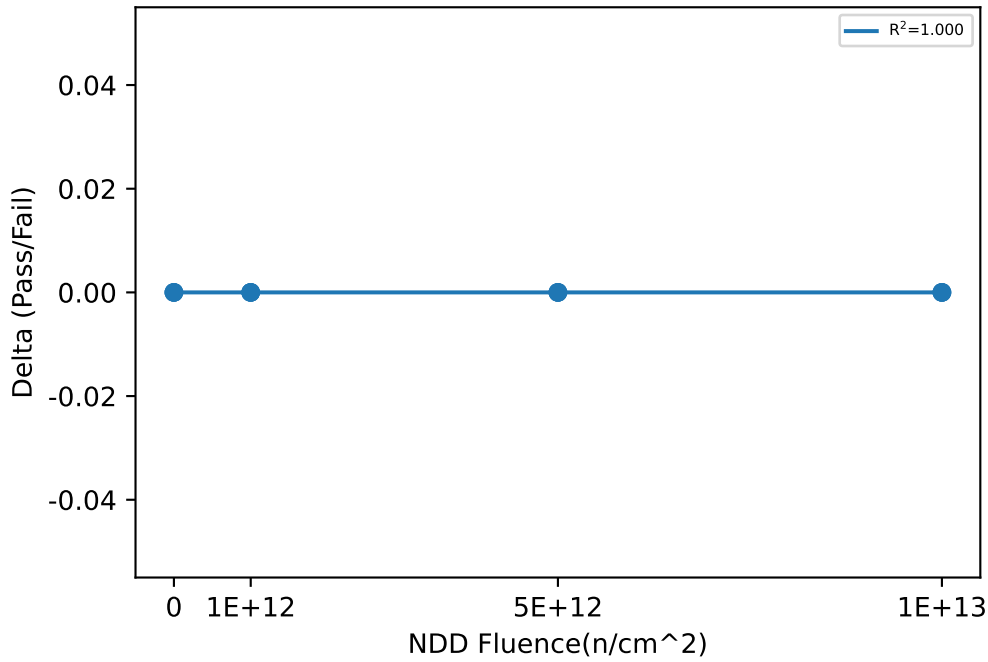
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

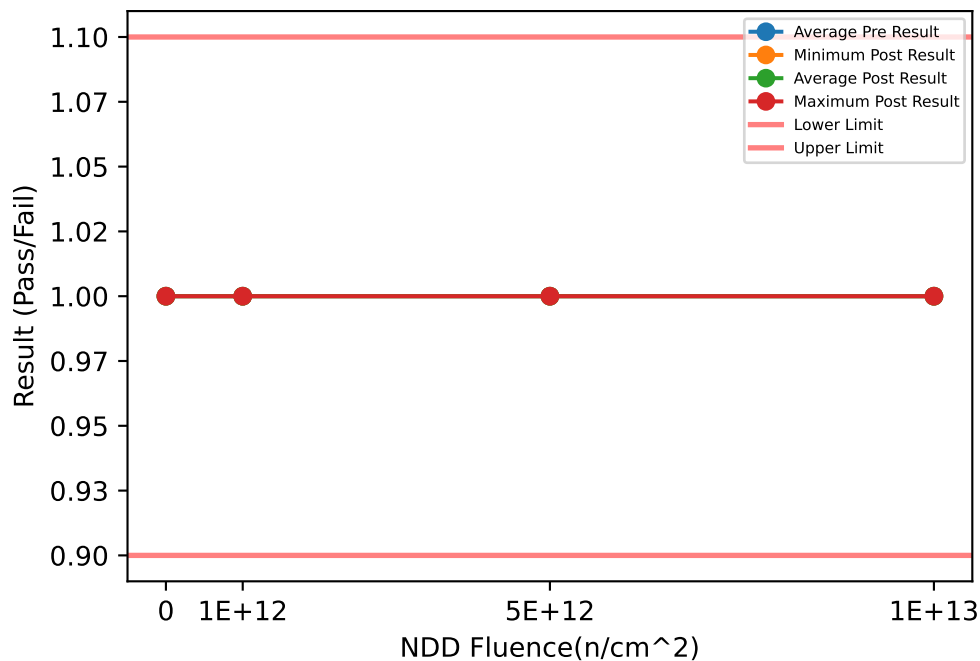


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.701 UJTCWZ(EN3\_Logic\_High\_Go-No-Go\_UJTCWZ)

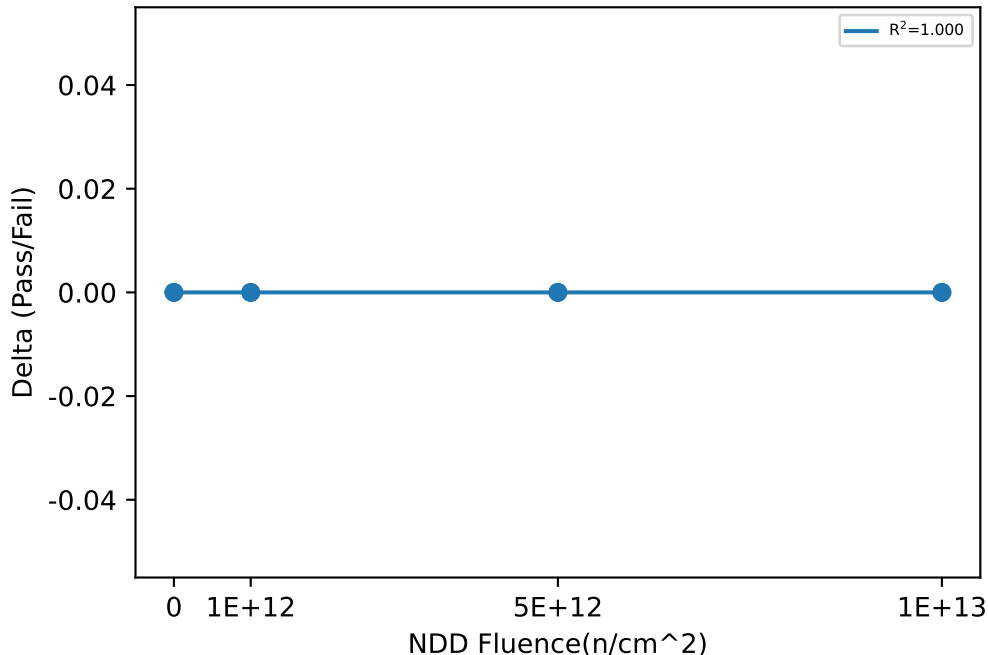
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

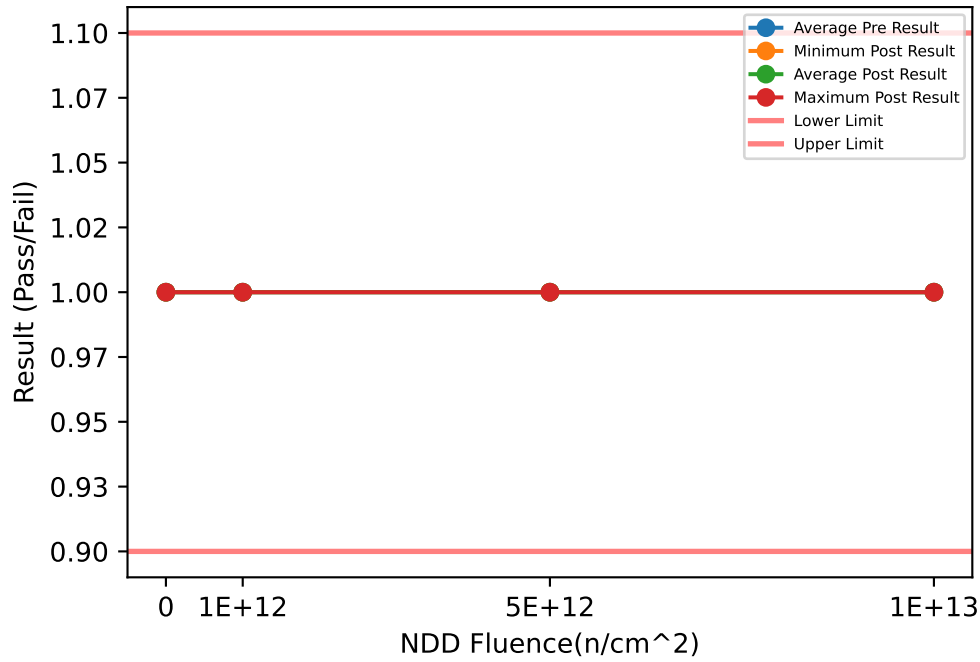


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 7.801 UJVVXI(EN3\_Logic\_Low\_Go-No-Go\_UJVVXI)

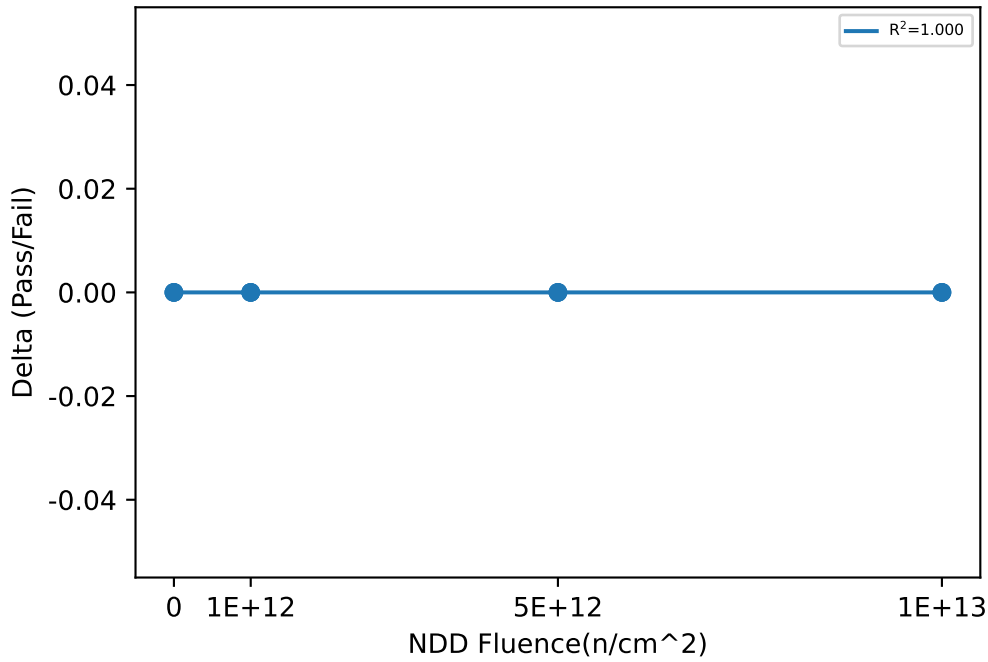
## NDD vs Result Stats



## Test Results (Lower Limit = 0.9, Upper Limit = 1.1 (Pass/Fail))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1	1	0
2	1e+12	NDD, unbiased	1	1	0
3	1e+12	NDD, unbiased	1	1	0
4	5e+12	NDD, unbiased	1	1	0
5	5e+12	NDD, unbiased	1	1	0
6	5e+12	NDD, unbiased	1	1	0
7	1e+13	NDD, unbiased	1	1	0
8	1e+13	NDD, unbiased	1	1	0
9	1e+13	NDD, unbiased	1	1	0
10	0	correlation	1	1	0
11	0	correlation	1	1	0
12	0	correlation	1	1	0

## NDD vs Post - Pre Exposure Delta

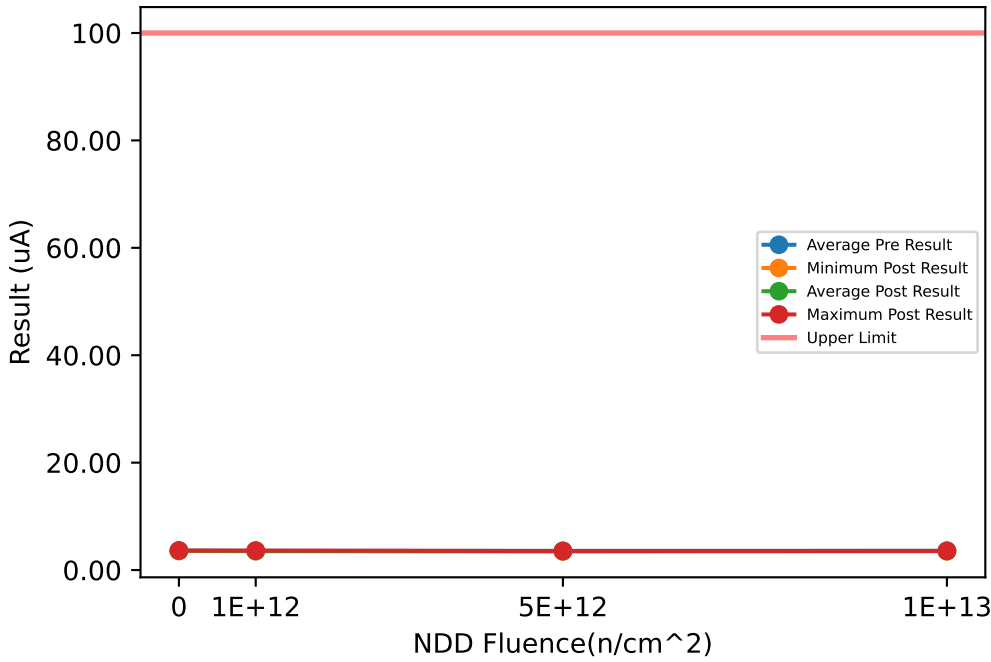


## Test Statistics (Pass/Fail)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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: 8.1 UJEU7X(IOUT1\_GroundLoss\_UJEU7X)

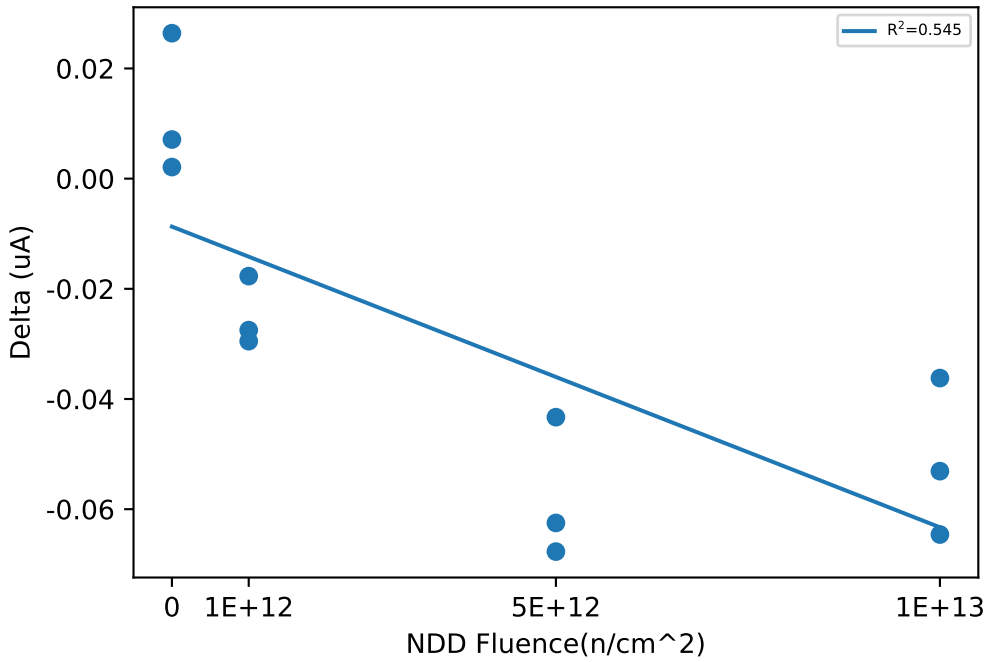
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.5465	3.5288	-0.0177
2	1e+12	NDD, unbiased	3.6543	3.6268	-0.0275
3	1e+12	NDD, unbiased	3.5375	3.508	-0.0295
4	5e+12	NDD, unbiased	3.609	3.5465	-0.0625
5	5e+12	NDD, unbiased	3.517	3.4737	-0.0433
6	5e+12	NDD, unbiased	3.6013	3.5336	-0.0677
7	1e+13	NDD, unbiased	3.5846	3.5484	-0.0362
8	1e+13	NDD, unbiased	3.5854	3.5208	-0.0646
9	1e+13	NDD, unbiased	3.6074	3.5543	-0.0531
10	0	correlation	3.5503	3.5524	0.0021
11	0	correlation	3.6161	3.6425	0.0264
12	0	correlation	3.5854	3.5925	0.0071

## NDD vs Post - Pre Exposure Delta



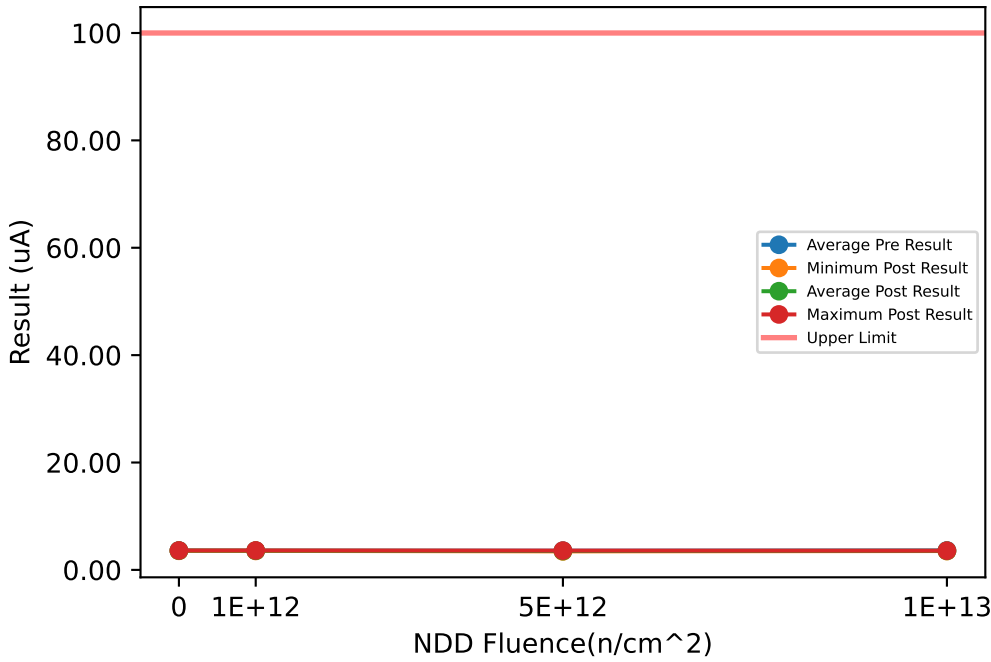
## Test Statistics (uA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5503	3.5839	3.6161	0.032925	3.5524	3.5958	3.6425	0.045141	0.0021	0.011867	0.0264	0.012832
1e+12	3.5375	3.5794	3.6543	0.064992	3.508	3.5545	3.6268	0.063443	-0.0295	-0.0249	-0.0177	0.0063151
5e+12	3.517	3.5758	3.609	0.051039	3.4737	3.5179	3.5465	0.038846	-0.0677	-0.057833	-0.0433	0.012852
1e+13	3.5846	3.5925	3.6074	0.012939	3.5208	3.5412	3.5543	0.017883	-0.0646	-0.0513	-0.0362	0.014285



# Device Test: 8.2 UJEU7X(IOUT2\_GroundLoss\_UJEU7X)

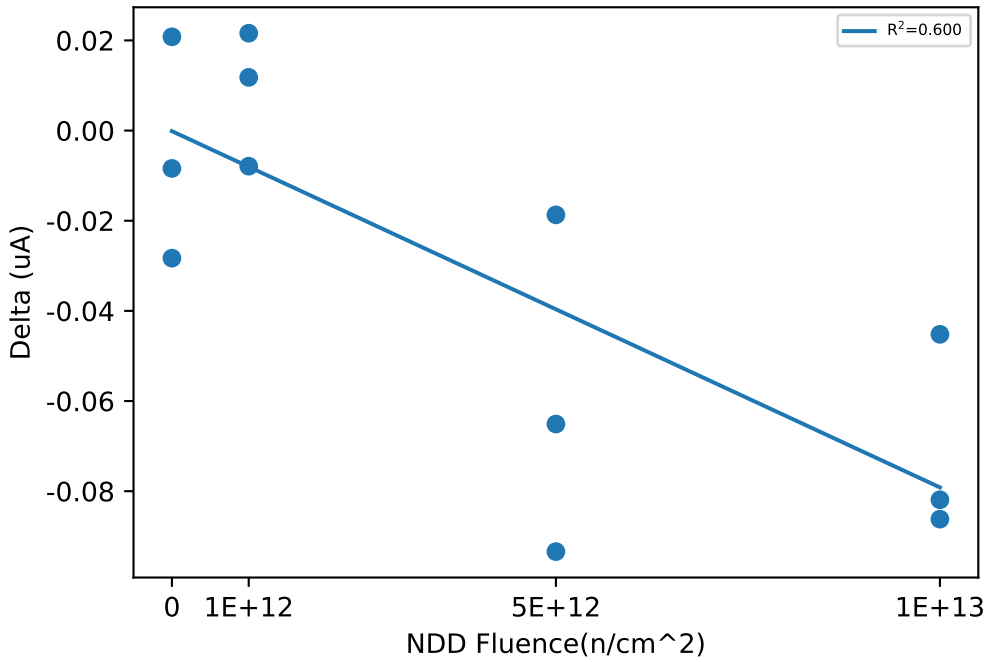
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.5465	3.5681	0.0216
2	1e+12	NDD, unbiased	3.6338	3.6259	-0.0079
3	1e+12	NDD, unbiased	3.5247	3.5365	0.0118
4	5e+12	NDD, unbiased	3.5606	3.4955	-0.0651
5	5e+12	NDD, unbiased	3.5387	3.4453	-0.0934
6	5e+12	NDD, unbiased	3.6161	3.5974	-0.0187
7	1e+13	NDD, unbiased	3.6386	3.5524	-0.0862
8	1e+13	NDD, unbiased	3.592	3.5101	-0.0819
9	1e+13	NDD, unbiased	3.629	3.5838	-0.0452
10	0	correlation	3.5356	3.5564	0.0208
11	0	correlation	3.6464	3.6181	-0.0283
12	0	correlation	3.6077	3.5993	-0.0084

## NDD vs Post - Pre Exposure Delta

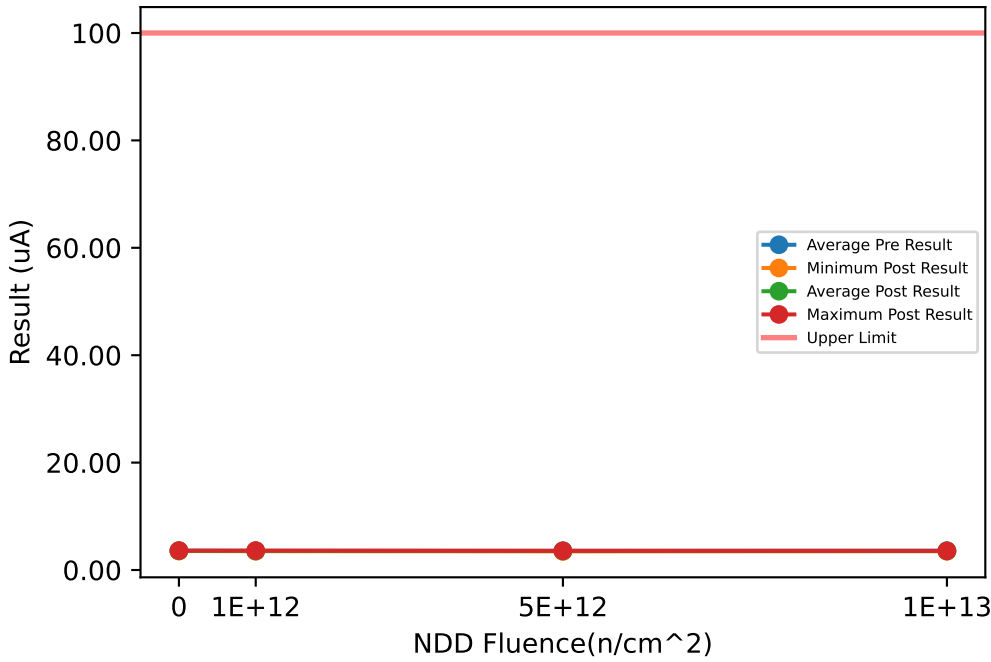


## Test Statistics (uA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5356	3.5966	3.6464	0.056233	3.5564	3.5913	3.6181	0.031625	-0.0283	-0.0053	0.0208	0.024696
1e+12	3.5247	3.5683	3.6338	0.057734	3.5365	3.5768	3.6259	0.045335	-0.0079	0.0085	0.0216	0.015024
5e+12	3.5387	3.5718	3.6161	0.039897	3.4453	3.5127	3.5974	0.077501	-0.0934	-0.059067	-0.0187	0.037714
1e+13	3.592	3.6199	3.6386	0.024606	3.5101	3.5488	3.5838	0.036984	-0.0862	-0.0711	-0.0452	0.022533

# Device Test: 8.3 UJEU7X(IOUT3\_GroundLoss\_UJEU7X)

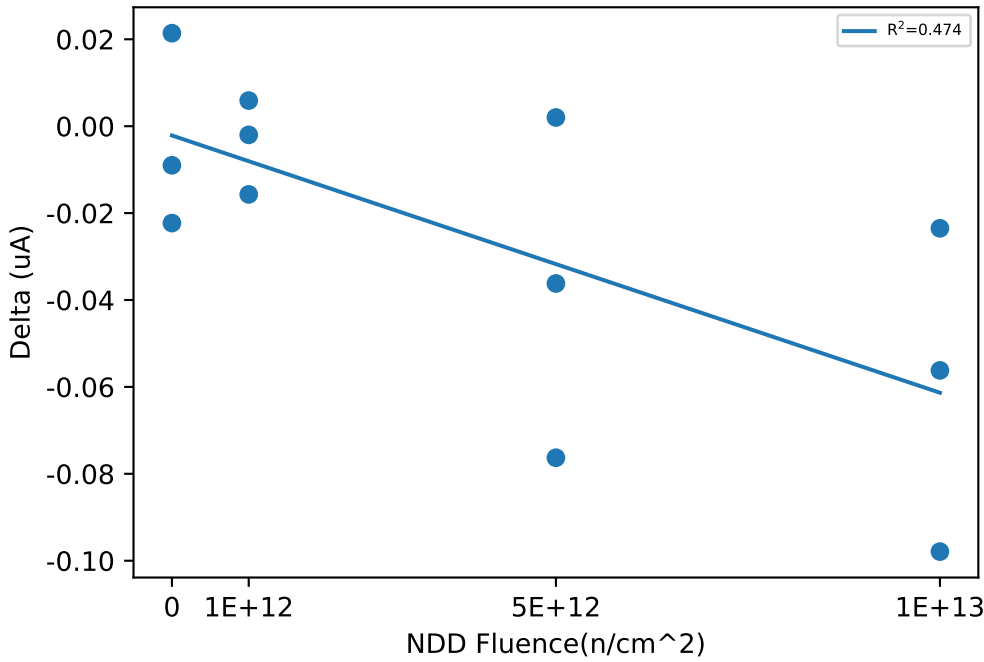
## NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.527	3.5329	0.0059
2	1e+12	NDD, unbiased	3.6352	3.6195	-0.0157
3	1e+12	NDD, unbiased	3.5027	3.5007	-0.002
4	5e+12	NDD, unbiased	3.5525	3.5545	0.002
5	5e+12	NDD, unbiased	3.5427	3.4664	-0.0763
6	5e+12	NDD, unbiased	3.6175	3.5813	-0.0362
7	1e+13	NDD, unbiased	3.6205	3.5643	-0.0562
8	1e+13	NDD, unbiased	3.5957	3.4978	-0.0979
9	1e+13	NDD, unbiased	3.5741	3.5506	-0.0235
10	0	correlation	3.5174	3.5388	0.0214
11	0	correlation	3.6245	3.6155	-0.009
12	0	correlation	3.5859	3.5636	-0.0223

## NDD vs Post - Pre Exposure Delta

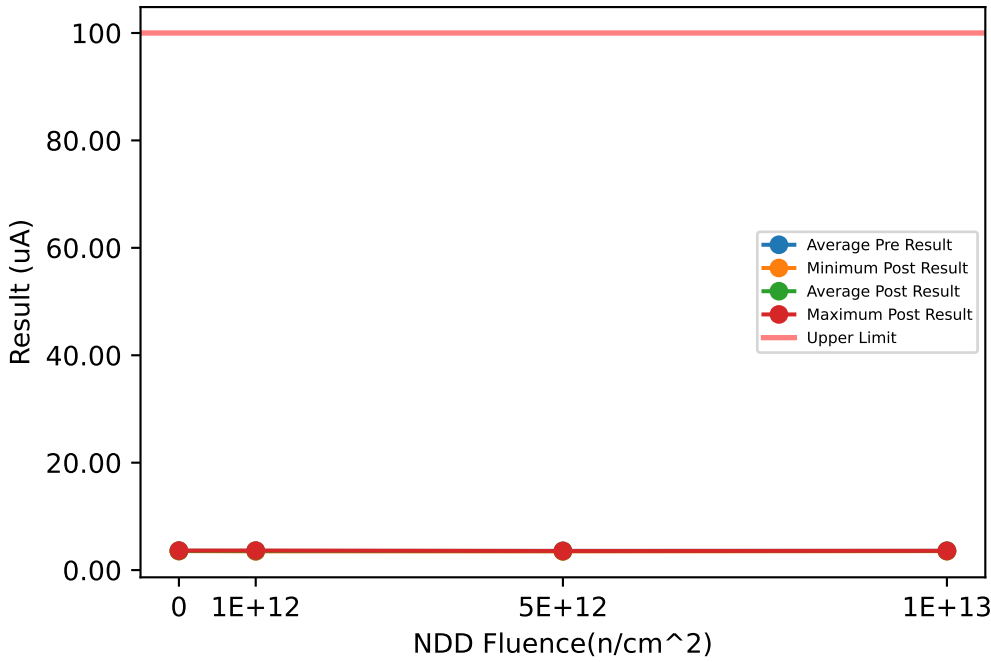


## Test Statistics (uA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5174	3.5759	3.6245	0.054241	3.5388	3.5726	3.6155	0.03914	-0.0223	-0.0033	0.0214	0.022401
1e+12	3.5027	3.555	3.6352	0.070538	3.5007	3.551	3.6195	0.061441	-0.0157	-0.0039333	0.0059	0.010929
5e+12	3.5427	3.5709	3.6175	0.040653	3.4664	3.5341	3.5813	0.060114	-0.0763	-0.036833	0.002	0.039154
1e+13	3.5741	3.5968	3.6205	0.023218	3.4978	3.5376	3.5643	0.035114	-0.0979	-0.0592	-0.0235	0.037291

# Device Test: 8.4 UJEU7X(IOUT4\_GroundLoss\_UJEU7X)

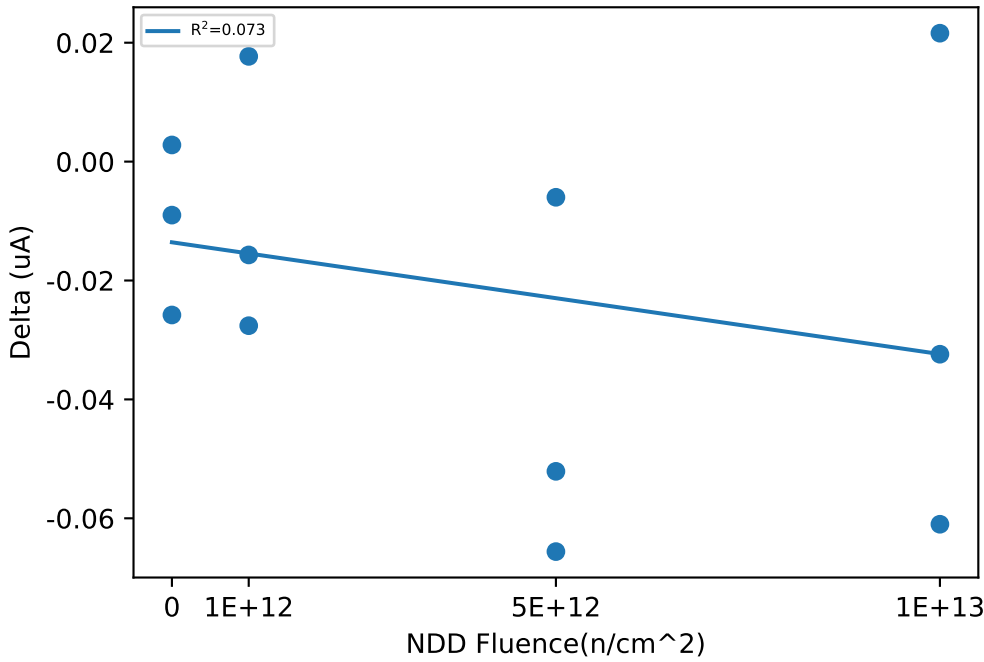
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	3.5375	3.5552	0.0177
2	1e+12	NDD, unbiased	3.6584	3.6427	-0.0157
3	1e+12	NDD, unbiased	3.5099	3.4823	-0.0276
4	5e+12	NDD, unbiased	3.5632	3.5572	-0.006
5	5e+12	NDD, unbiased	3.5533	3.4877	-0.0656
6	5e+12	NDD, unbiased	3.6152	3.5631	-0.0521
7	1e+13	NDD, unbiased	3.5729	3.5945	0.0216
8	1e+13	NDD, unbiased	3.5848	3.5524	-0.0324
9	1e+13	NDD, unbiased	3.5867	3.5257	-0.061
10	0	correlation	3.5485	3.5395	-0.009
11	0	correlation	3.6301	3.6329	0.0028
12	0	correlation	3.577	3.5512	-0.0258

## NDD vs Post - Pre Exposure Delta

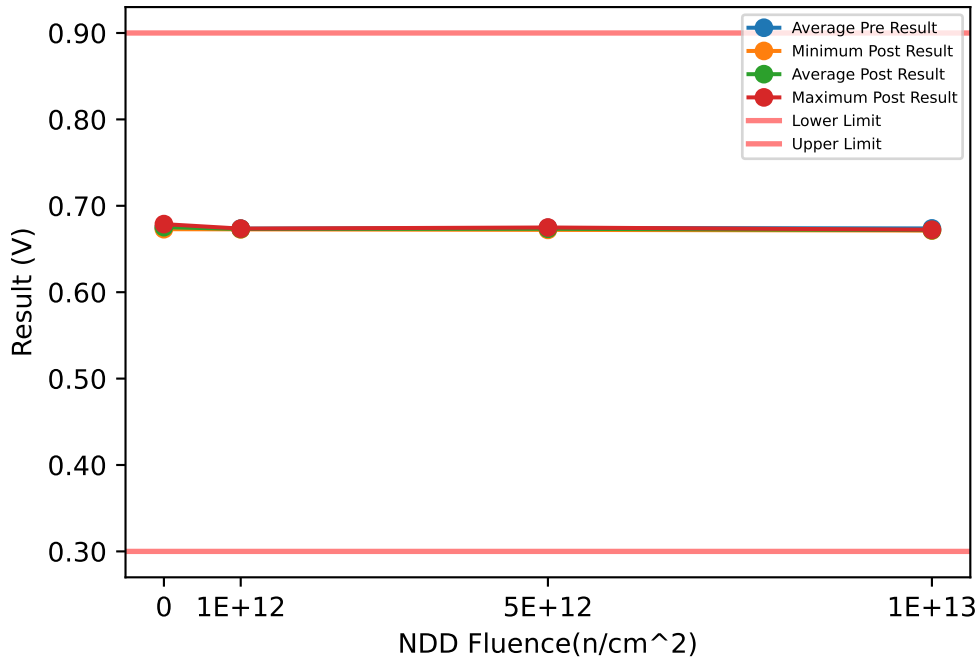


## Test Statistics (uA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5485	3.5852	3.6301	0.041413	3.5395	3.5745	3.6329	0.050884	-0.0258	-0.010667	0.0028	0.014373
1e+12	3.5099	3.5686	3.6584	0.078984	3.4823	3.5601	3.6427	0.080311	-0.0276	-0.0085333	0.0177	0.023485
5e+12	3.5533	3.5772	3.6152	0.033251	3.4877	3.536	3.5631	0.041933	-0.0656	-0.041233	-0.006	0.031251
1e+13	3.5729	3.5815	3.5867	0.0074795	3.5257	3.5575	3.5945	0.034686	-0.061	-0.023933	0.0216	0.041946

# Device Test: 8.5 UJ4X6M(VDIODE\_OUT1\_UJ4X6M)

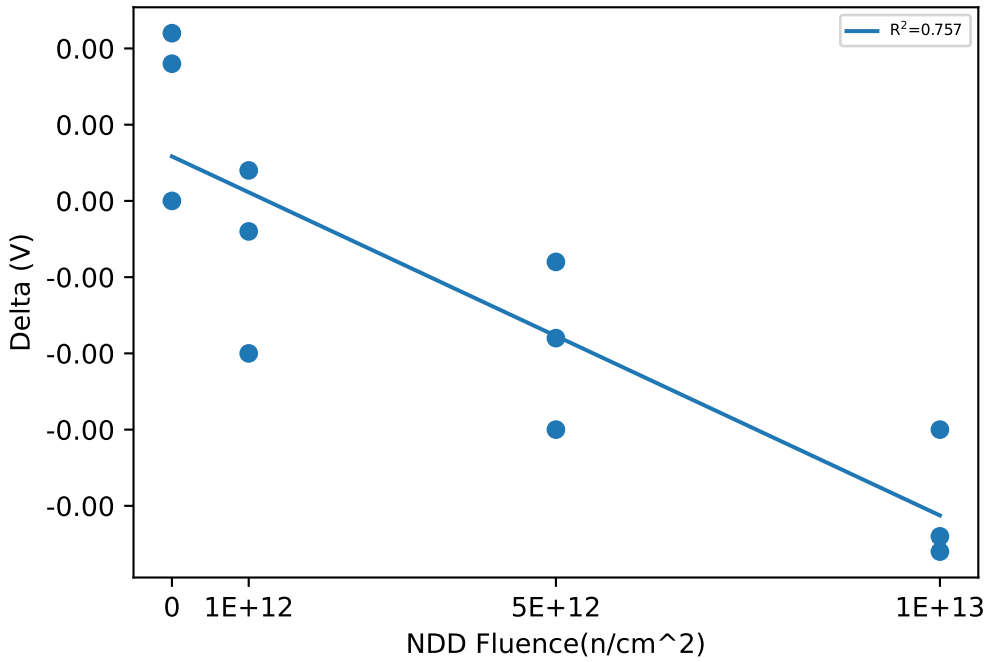
## NDD vs Result Stats



## Test Results (Lower Limit = 0.3, Upper Limit = 0.9 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.6743	0.6733	-0.001
2	1e+12	NDD, unbiased	0.6725	0.6727	0.0002
3	1e+12	NDD, unbiased	0.6738	0.6736	-0.0002
4	5e+12	NDD, unbiased	0.673	0.6721	-0.0009
5	5e+12	NDD, unbiased	0.6753	0.6749	-0.0004
6	5e+12	NDD, unbiased	0.6747	0.6732	-0.0015
7	1e+13	NDD, unbiased	0.6741	0.6719	-0.0022
8	1e+13	NDD, unbiased	0.6738	0.6723	-0.0015
9	1e+13	NDD, unbiased	0.6736	0.6713	-0.0023
10	0	correlation	0.6779	0.6788	0.0009
11	0	correlation	0.6718	0.6729	0.0011
12	0	correlation	0.6741	0.6741	0

## NDD vs Post - Pre Exposure Delta

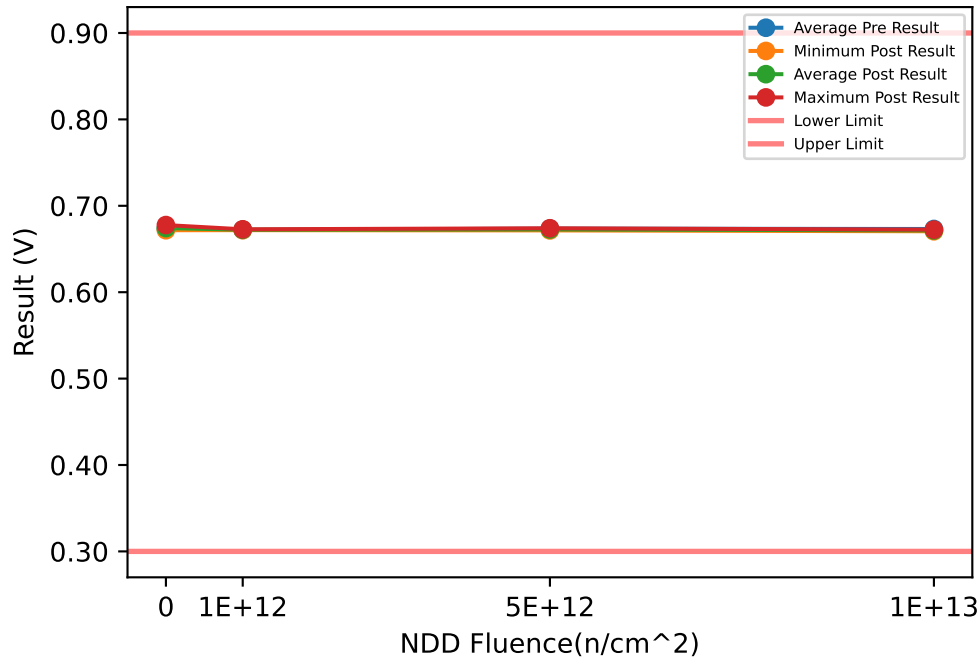


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6718	0.6746	0.6779	0.0030806	0.6729	0.67527	0.6788	0.0031182	0	0.00066667	0.0011	0.00058595
1e+12	0.6725	0.67353	0.6743	0.00092916	0.6727	0.6732	0.6736	0.00045826	-0.001	-0.00033333	0.0002	0.00061101
5e+12	0.673	0.67433	0.6753	0.001193	0.6721	0.6734	0.6749	0.0014107	-0.0015	-0.00093333	-0.0004	0.00055076
1e+13	0.6736	0.67383	0.6741	0.00025166	0.6713	0.67183	0.6723	0.00050332	-0.0023	-0.002	-0.0015	0.00043589

# Device Test: 8.6 UJ4X6M(VDIODE\_OUT2\_UJ4X6M)

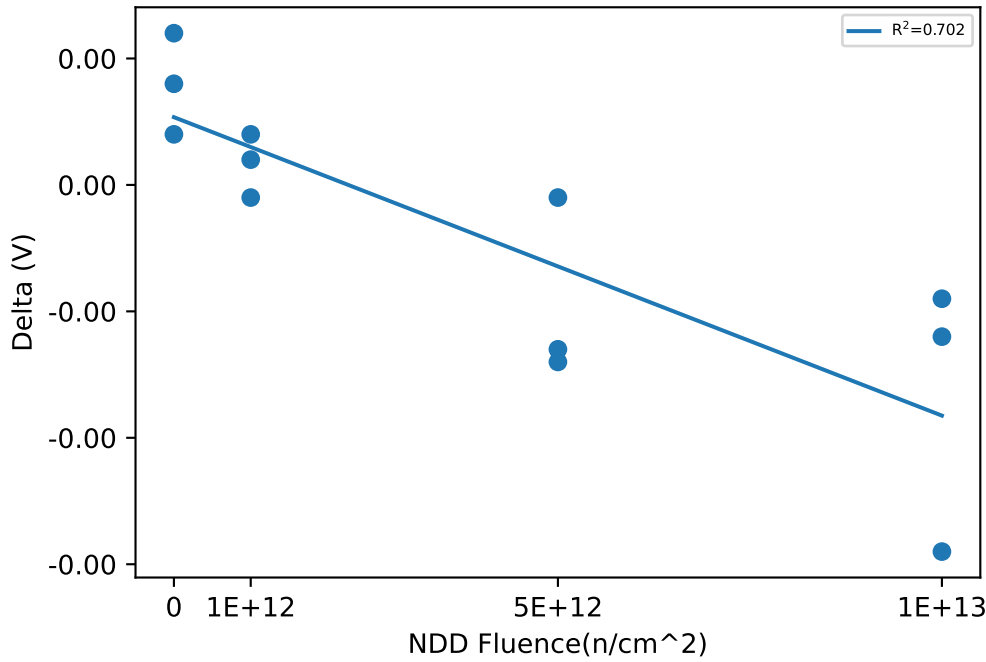
## NDD vs Result Stats



## Test Results (Lower Limit = 0.3, Upper Limit = 0.9 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.6719	0.6723	0.0004
2	1e+12	NDD, unbiased	0.6716	0.6718	0.0002
3	1e+12	NDD, unbiased	0.6729	0.6728	-0.0001
4	5e+12	NDD, unbiased	0.6716	0.6715	-0.0001
5	5e+12	NDD, unbiased	0.6753	0.674	-0.0013
6	5e+12	NDD, unbiased	0.6738	0.6724	-0.0014
7	1e+13	NDD, unbiased	0.6733	0.6724	-0.0009
8	1e+13	NDD, unbiased	0.6728	0.6716	-0.0012
9	1e+13	NDD, unbiased	0.6734	0.6705	-0.0029
10	0	correlation	0.6769	0.6777	0.0008
11	0	correlation	0.6705	0.6717	0.0012
12	0	correlation	0.6728	0.6732	0.0004

## NDD vs Post - Pre Exposure Delta

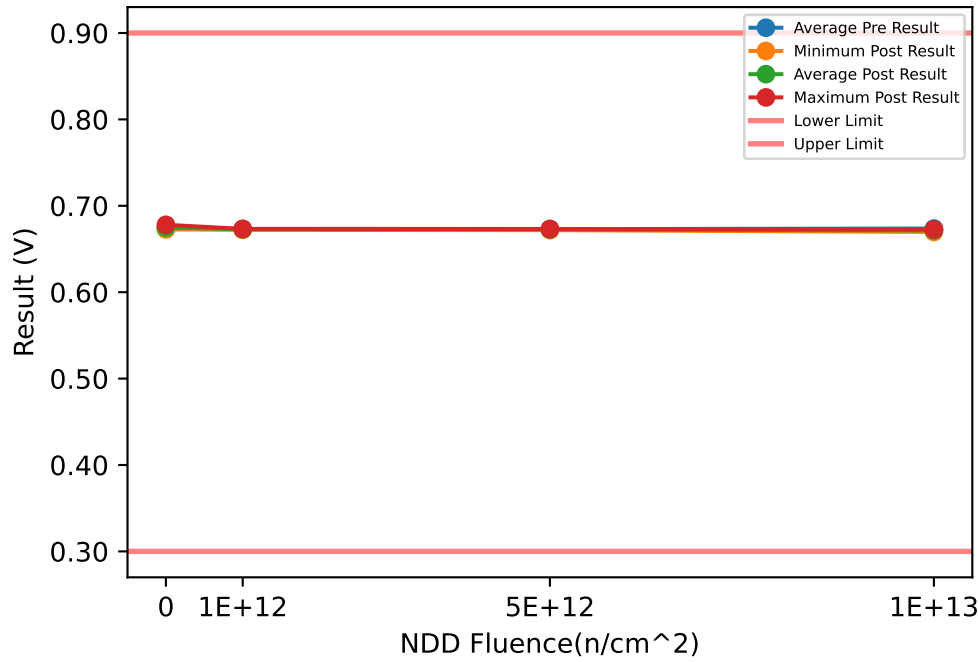


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6705	0.6734	0.6769	0.0032419	0.6717	0.6742	0.6777	0.0031225	0.0004	0.0008	0.0012	0.0004
1e+12	0.6716	0.67213	0.6729	0.00068069	0.6718	0.6723	0.6728	0.0005	-0.0001	0.00016667	0.0004	0.00025166
5e+12	0.6716	0.67357	0.6753	0.001861	0.6715	0.67263	0.674	0.0012662	-0.0014	-0.00093333	-0.0001	0.00072342
1e+13	0.6728	0.67317	0.6734	0.00032146	0.6705	0.6715	0.6724	0.00095394	-0.0029	-0.0016667	-0.0009	0.0010786

# Device Test: 8.7 UJ4X6M(VDIODE\_OUT3\_UJ4X6M)

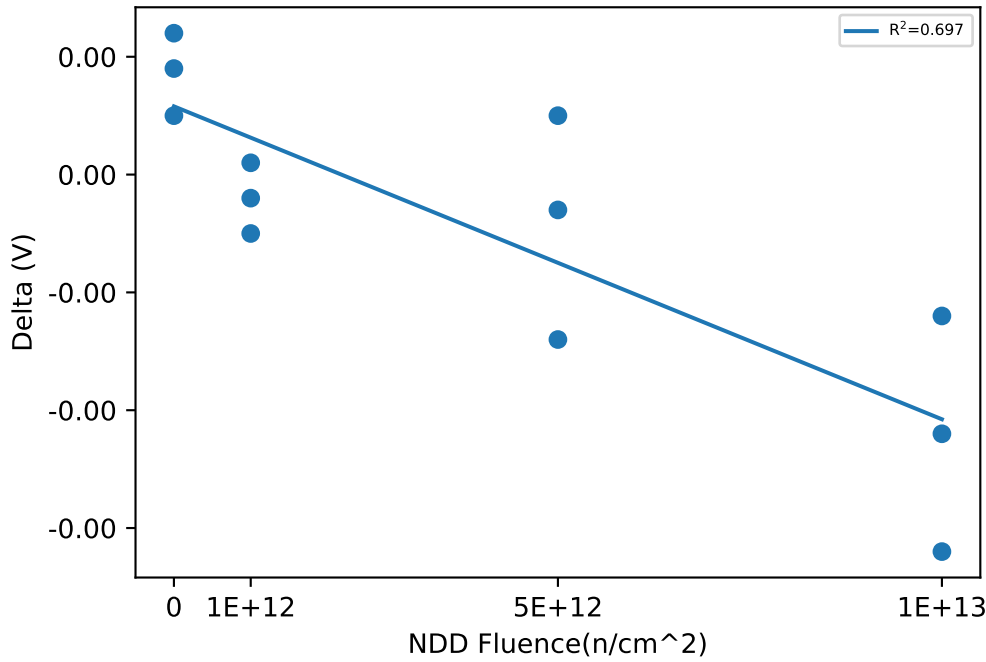
## NDD vs Result Stats



## Test Results (Lower Limit = 0.3, Upper Limit = 0.9 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.6738	0.6733	-0.0005
2	1e+12	NDD, unbiased	0.672	0.6721	0.0001
3	1e+12	NDD, unbiased	0.6734	0.6732	-0.0002
4	5e+12	NDD, unbiased	0.6723	0.6728	0.0005
5	5e+12	NDD, unbiased	0.6735	0.6732	-0.0003
6	5e+12	NDD, unbiased	0.6732	0.6718	-0.0014
7	1e+13	NDD, unbiased	0.6744	0.6722	-0.0022
8	1e+13	NDD, unbiased	0.6738	0.6726	-0.0012
9	1e+13	NDD, unbiased	0.6729	0.6697	-0.0032
10	0	correlation	0.6771	0.678	0.0009
11	0	correlation	0.6715	0.6727	0.0012
12	0	correlation	0.6736	0.6741	0.0005

## NDD vs Post - Pre Exposure Delta

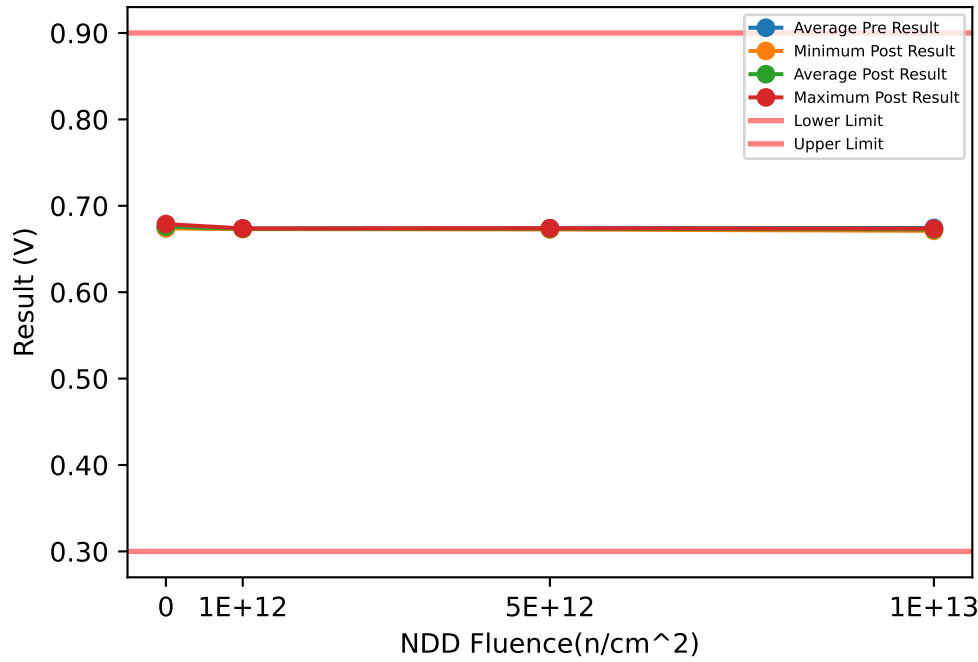


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6715	0.67407	0.6771	0.002829	0.6727	0.67493	0.678	0.0027465	0.0005	0.00086667	0.0012	0.00035119
1e+12	0.672	0.67307	0.6738	0.00094516	0.6721	0.67287	0.6733	0.00066583	-0.0005	-0.0002	0.0001	0.0003
5e+12	0.6723	0.673	0.6735	0.0006245	0.6718	0.6726	0.6732	0.00072111	-0.0014	-0.0004	0.0005	0.00095394
1e+13	0.6729	0.6737	0.6744	0.00075498	0.6697	0.6715	0.6726	0.0015716	-0.0032	-0.0022	-0.0012	0.001

# Device Test: 8.8 UJ4X6M(VDIODE\_OUT4\_UJ4X6M)

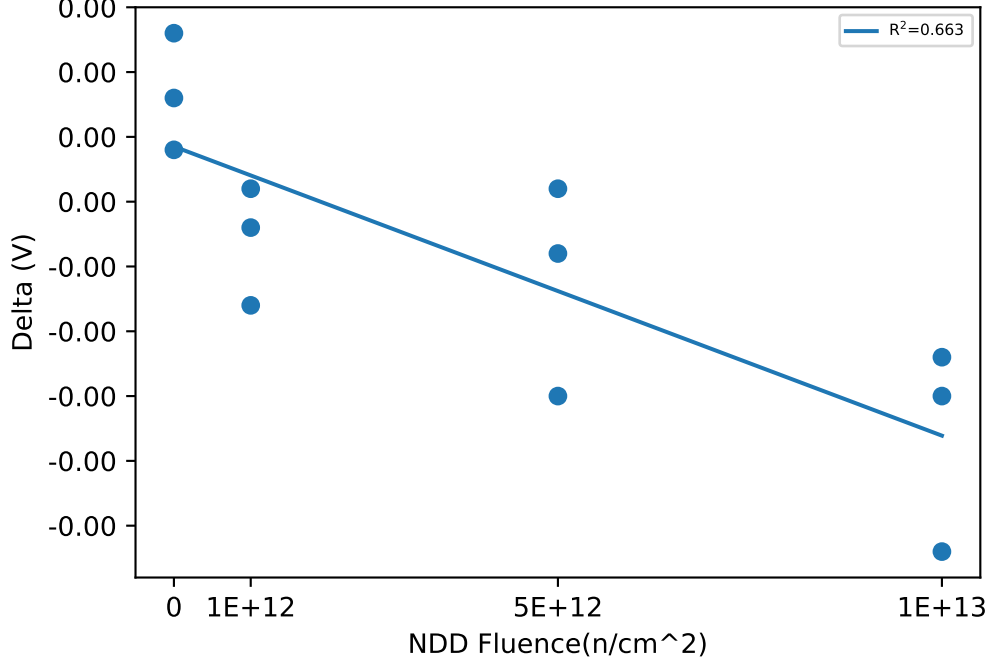
## NDD vs Result Stats



## Test Results (Lower Limit = 0.3, Upper Limit = 0.9 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.6741	0.6733	-0.0008
2	1e+12	NDD, unbiased	0.6729	0.673	0.0001
3	1e+12	NDD, unbiased	0.674	0.6738	-0.0002
4	5e+12	NDD, unbiased	0.6735	0.6736	0.0001
5	5e+12	NDD, unbiased	0.6744	0.674	-0.0004
6	5e+12	NDD, unbiased	0.6741	0.6726	-0.0015
7	1e+13	NDD, unbiased	0.675	0.6735	-0.0015
8	1e+13	NDD, unbiased	0.6745	0.6733	-0.0012
9	1e+13	NDD, unbiased	0.6737	0.671	-0.0027
10	0	correlation	0.6781	0.6789	0.0008
11	0	correlation	0.6725	0.6738	0.0013
12	0	correlation	0.6745	0.6749	0.0004

## NDD vs Post - Pre Exposure Delta

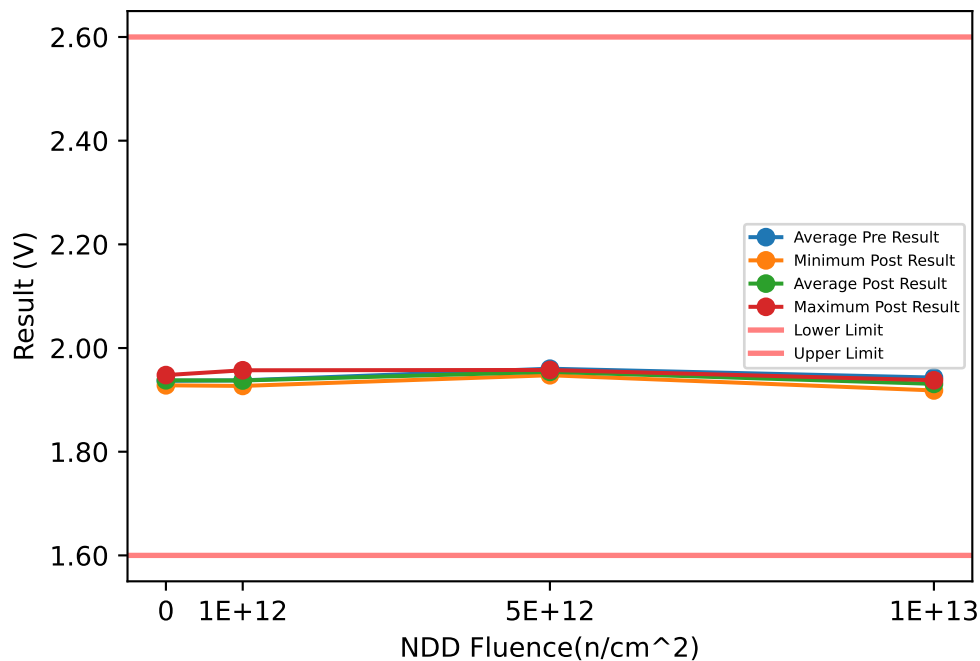


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6725	0.67503	0.6781	0.0028378	0.6738	0.67587	0.6789	0.0026839	0.0004	0.00083333	0.0013	0.00045092
1e+12	0.6729	0.67367	0.6741	0.00066583	0.673	0.67337	0.6738	0.00040415	-0.0008	-0.0003	0.0001	0.00045826
5e+12	0.6735	0.674	0.6744	0.00045826	0.6726	0.6734	0.674	0.00072111	-0.0015	-0.0006	0.0001	0.00081854
1e+13	0.6737	0.6744	0.675	0.00065574	0.671	0.6726	0.6735	0.0013892	-0.0027	-0.0018	-0.0012	0.00079373

# Device Test: 9.1 UJ9MO5(VOL\_OFF\_UJ9MO5)

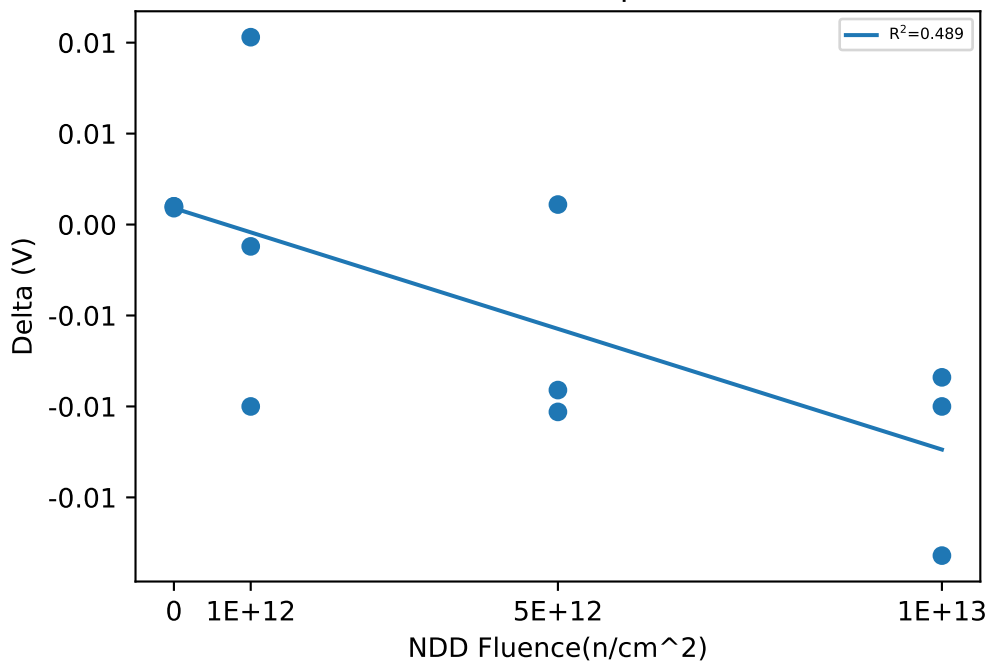
## NDD vs Result Stats



## Test Results (Lower Limit = 1.6, Upper Limit = 2.6 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	1.9281	1.9269	-0.0012
2	1e+12	NDD, unbiased	1.9178	1.9281	0.0103
3	1e+12	NDD, unbiased	1.9671	1.9571	-0.01
4	5e+12	NDD, unbiased	1.9464	1.9475	0.0011
5	5e+12	NDD, unbiased	1.9672	1.9569	-0.0103
6	5e+12	NDD, unbiased	1.9668	1.9577	-0.0091
7	1e+13	NDD, unbiased	1.9462	1.9378	-0.0084
8	1e+13	NDD, unbiased	1.9364	1.9182	-0.0182
9	1e+13	NDD, unbiased	1.9466	1.9366	-0.01
10	0	correlation	1.9272	1.9281	0.0009
11	0	correlation	1.9468	1.9478	0.001
12	0	correlation	1.9364	1.9374	0.001

## NDD vs Post - Pre Exposure Delta



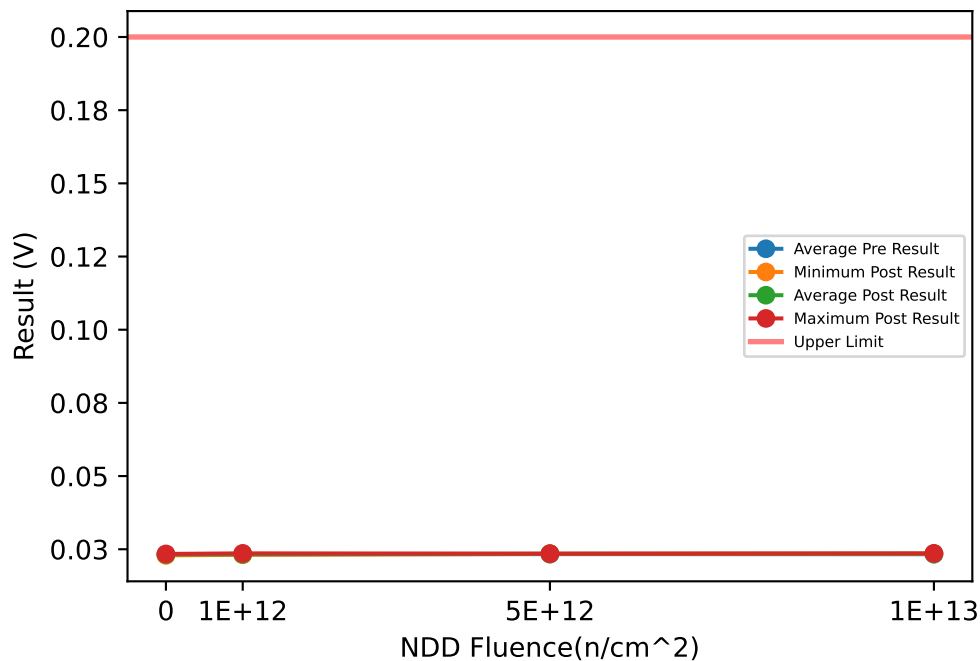
## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9272	1.9368	1.9468	0.0098061	1.9281	1.9378	1.9478	0.0098551	0.0009	0.00096667	0.001	5.7735e-05
1e+12	1.9178	1.9377	1.9671	0.026005	1.9269	1.9374	1.9571	0.0171	-0.01	-0.0003	0.0103	0.01018
5e+12	1.9464	1.9601	1.9672	0.011895	1.9475	1.954	1.9577	0.0056722	-0.0103	-0.0061	0.0011	0.0062642
1e+13	1.9364	1.9431	1.9466	0.005777	1.9182	1.9309	1.9378	0.010986	-0.0182	-0.0122	-0.0084	0.0052574



# Device Test: 9.10 UJUQE8(V\_FAULT\_OL\_UJUQE8)

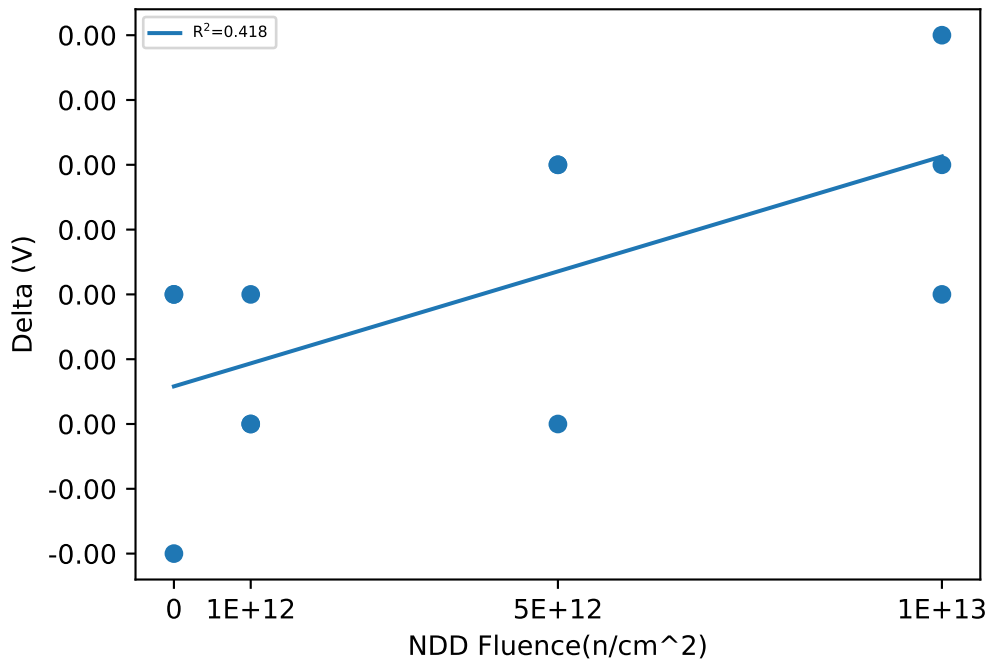
## NDD vs Result Stats



## Test Results (Upper Limit = 0.2 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	0.0231	0.0231	0
2	1e+12	NDD, unbiased	0.0235	0.0236	0.0001
3	1e+12	NDD, unbiased	0.0232	0.0232	0
4	5e+12	NDD, unbiased	0.0232	0.0234	0.0002
5	5e+12	NDD, unbiased	0.0233	0.0235	0.0002
6	5e+12	NDD, unbiased	0.0235	0.0235	0
7	1e+13	NDD, unbiased	0.0233	0.0235	0.0002
8	1e+13	NDD, unbiased	0.0233	0.0236	0.0003
9	1e+13	NDD, unbiased	0.0233	0.0234	0.0001
10	0	correlation	0.023	0.0229	-0.0001
11	0	correlation	0.0232	0.0233	0.0001
12	0	correlation	0.0233	0.0234	0.0001

## NDD vs Post - Pre Exposure Delta

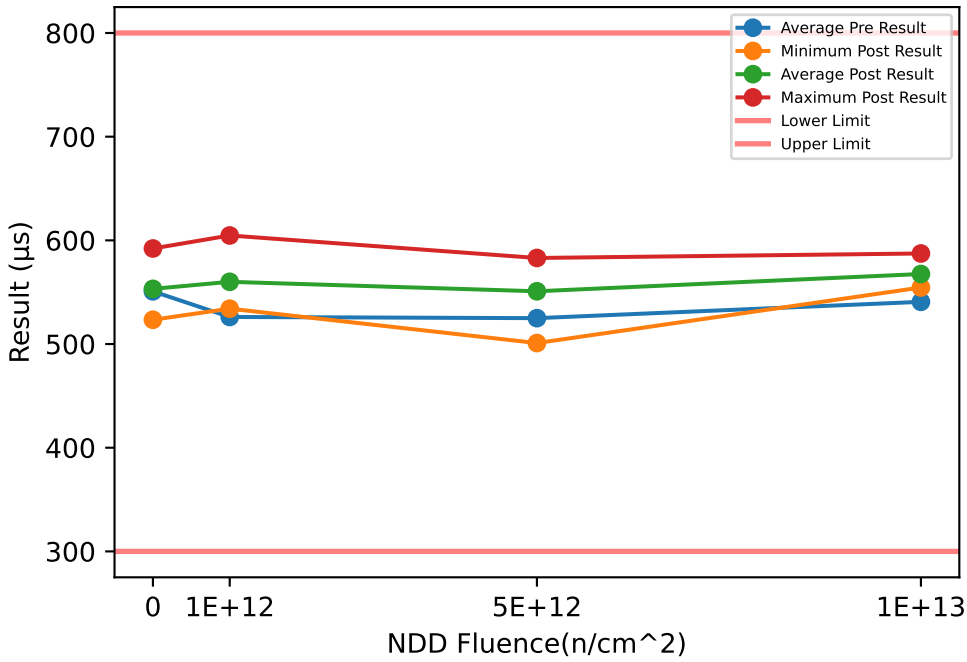


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.023	0.023167	0.0233	0.00015275	0.0229	0.0232	0.0234	0.00026458	-0.0001	3.3333e-05	0.0001	0.00011547
1e+12	0.0231	0.023267	0.0235	0.00020817	0.0231	0.0233	0.0236	0.00026458	0	3.3333e-05	0.0001	5.7735e-05
5e+12	0.0232	0.023333	0.0235	0.00015275	0.0234	0.023467	0.0235	5.7735e-05	0	0.00013333	0.0002	0.00011547
1e+13	0.0233	0.0233	0.0233	0	0.0234	0.0235	0.0236	0.0001	0.0001	0.0002	0.0003	0.0001

# Device Test: 9.11 UJWCB3(TOL\_OFF\_UJWCB3)

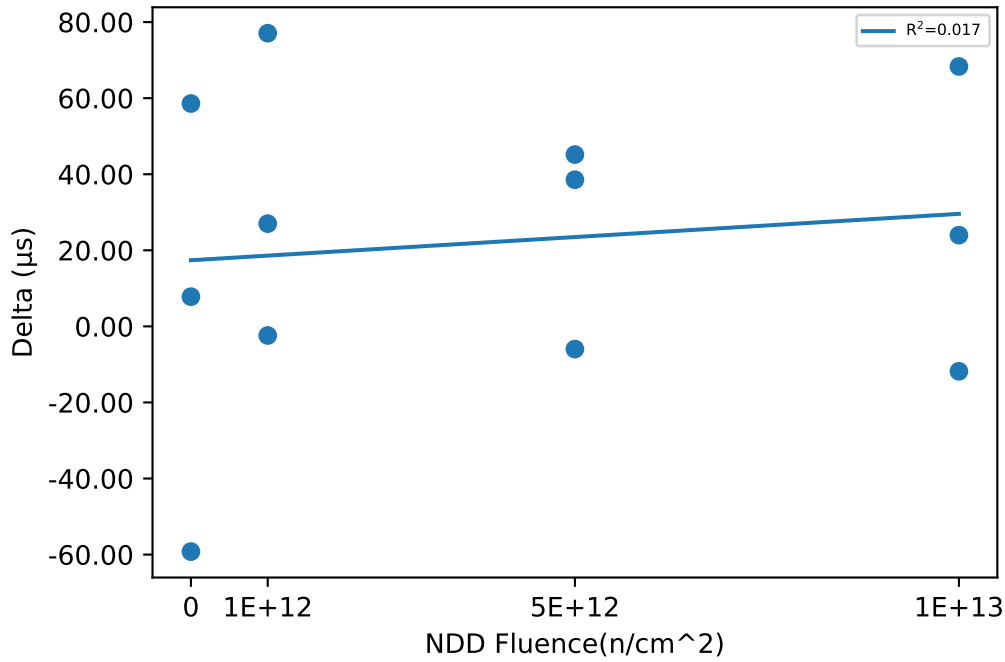
## NDD vs Result Stats



## Test Results (Lower Limit = 300.0, Upper Limit = 800.0 (µs))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	507.09	534.1	27.012
2	1e+12	NDD, unbiased	543.64	541.24	-2.3995
3	1e+12	NDD, unbiased	527.62	604.7	77.079
4	5e+12	NDD, unbiased	537.84	583.01	45.175
5	5e+12	NDD, unbiased	530.13	568.69	38.556
6	5e+12	NDD, unbiased	506.92	500.95	-5.9668
7	1e+13	NDD, unbiased	572.53	560.72	-11.807
8	1e+13	NDD, unbiased	519.01	587.34	68.329
9	1e+13	NDD, unbiased	530.55	554.53	23.983
10	0	correlation	536.26	544.07	7.8075
11	0	correlation	582.65	523.44	-59.215
12	0	correlation	533.56	592.16	58.592

## NDD vs Post - Pre Exposure Delta

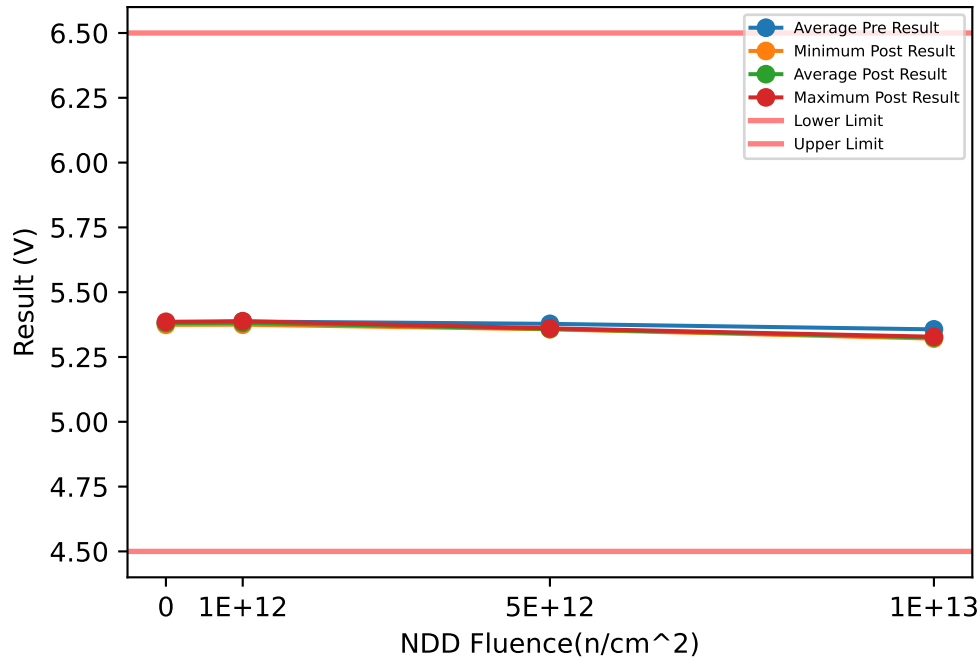


## Test Statistics (µs)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	533.56	550.83	582.65	27.595	523.44	553.22	592.16	35.262	-59.215	2.3949	58.592	59.089
1e+12	507.09	526.12	543.64	18.318	534.1	560.01	604.7	38.864	-2.3995	33.897	77.079	40.184
5e+12	506.92	524.96	537.84	16.096	500.95	550.88	583.01	43.833	-5.9668	25.921	45.175	27.814
1e+13	519.01	540.7	572.53	28.165	554.53	567.53	587.34	17.433	-11.807	26.835	68.329	40.144

# Device Test: 9.12 UJBGA6(VCSH\_UJBGA6)

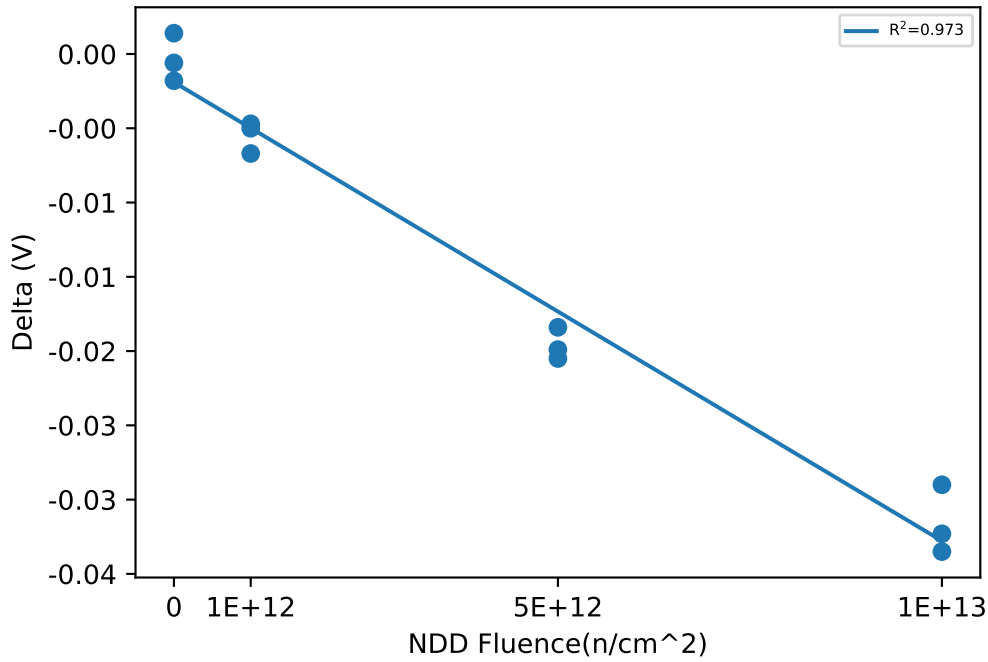
## NDD vs Result Stats



## Test Results (Lower Limit = 4.5, Upper Limit = 6.5 (V))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	5.3949	5.3882	-0.0067
2	1e+12	NDD, unbiased	5.3865	5.3818	-0.0047
3	1e+12	NDD, unbiased	5.3795	5.3745	-0.005
4	5e+12	NDD, unbiased	5.376	5.3576	-0.0184
5	5e+12	NDD, unbiased	5.3772	5.3567	-0.0205
6	5e+12	NDD, unbiased	5.3806	5.3607	-0.0199
7	1e+13	NDD, unbiased	5.3605	5.3282	-0.0323
8	1e+13	NDD, unbiased	5.3599	5.3264	-0.0335
9	1e+13	NDD, unbiased	5.3497	5.3207	-0.029
10	0	correlation	5.3876	5.3858	-0.0018
11	0	correlation	5.3814	5.3828	0.0014
12	0	correlation	5.3745	5.3739	-0.0006

## NDD vs Post - Pre Exposure Delta

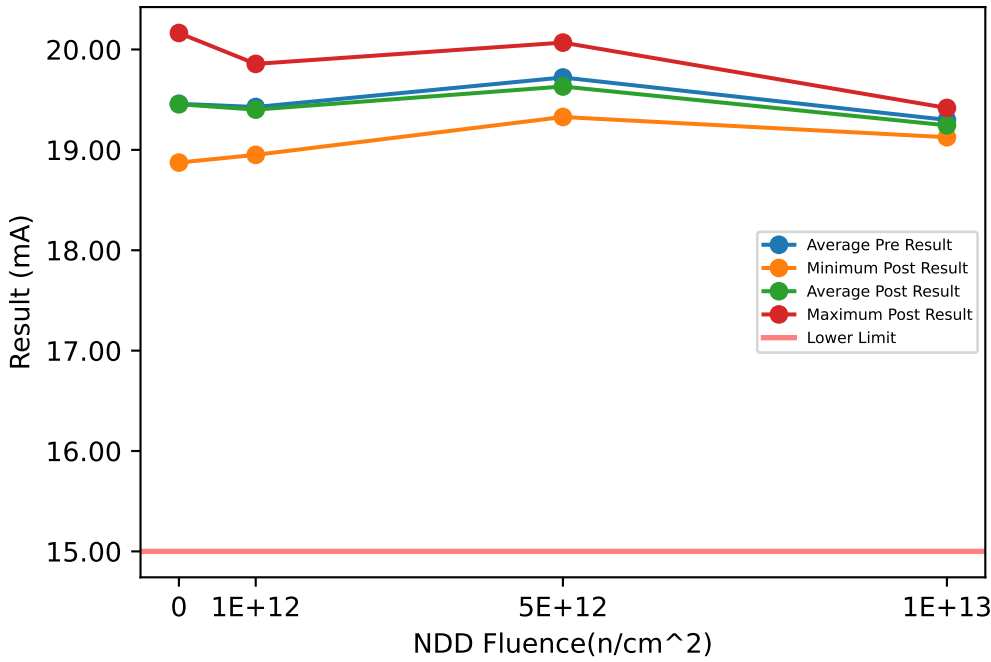


## Test Statistics (V)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.3745	5.3812	5.3876	0.0065531	5.3739	5.3808	5.3858	0.006189	-0.0018	-0.00033333	0.0014	0.0016166
1e+12	5.3795	5.387	5.3949	0.0077106	5.3745	5.3815	5.3882	0.0068549	-0.0067	-0.0054667	-0.0047	0.0010786
5e+12	5.376	5.3779	5.3806	0.0023861	5.3567	5.3583	5.3607	0.0020984	-0.0205	-0.0196	-0.0184	0.0010817
1e+13	5.3497	5.3567	5.3605	0.0060696	5.3207	5.3251	5.3282	0.0039154	-0.0335	-0.0316	-0.029	0.0023302

# Device Test: 9.13 UJP7QA(ICSH\_UJP7QA)

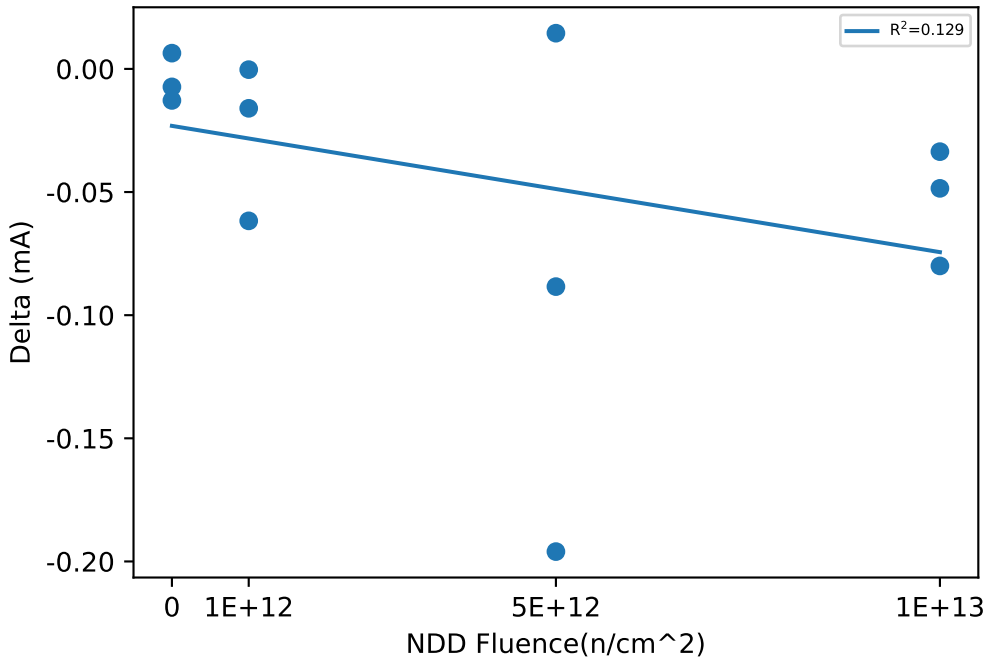
## NDD vs Result Stats



## Test Results (Lower Limit = 15.0 (mA))

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	19.396	19.396	-0.0003
2	1e+12	NDD, unbiased	19.873	19.857	-0.016
3	1e+12	NDD, unbiased	19.012	18.95	-0.0617
4	5e+12	NDD, unbiased	19.483	19.498	0.0145
5	5e+12	NDD, unbiased	19.523	19.327	-0.196
6	5e+12	NDD, unbiased	20.157	20.069	-0.0884
7	1e+13	NDD, unbiased	19.159	19.126	-0.0336
8	1e+13	NDD, unbiased	19.466	19.418	-0.0485
9	1e+13	NDD, unbiased	19.27	19.19	-0.08
10	0	correlation	18.881	18.873	-0.0073
11	0	correlation	19.319	19.326	0.0064
12	0	correlation	20.177	20.164	-0.0128

## NDD vs Post - Pre Exposure Delta

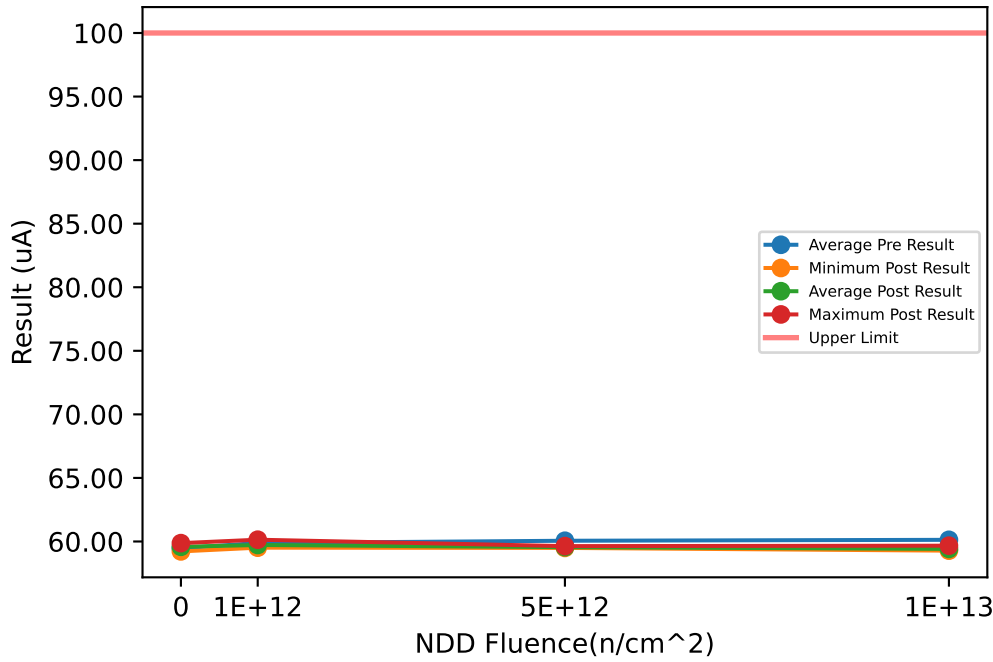


## Test Statistics (mA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.881	19.459	20.177	0.65936	18.873	19.454	20.164	0.65497	-0.0128	-0.0045667	0.0064	0.0098875
1e+12	19.012	19.427	19.873	0.43111	18.95	19.401	19.857	0.45317	-0.0617	-0.026	-0.0003	0.031898
5e+12	19.483	19.721	20.157	0.37789	19.327	19.631	20.069	0.38817	-0.196	-0.089967	0.0145	0.10526
1e+13	19.159	19.298	19.466	0.15532	19.126	19.244	19.418	0.15337	-0.08	-0.054033	-0.0336	0.02369

# Device Test: 9.2 UJ5EAX(IOL\_OFF\_OUT1\_UJ5EAX)

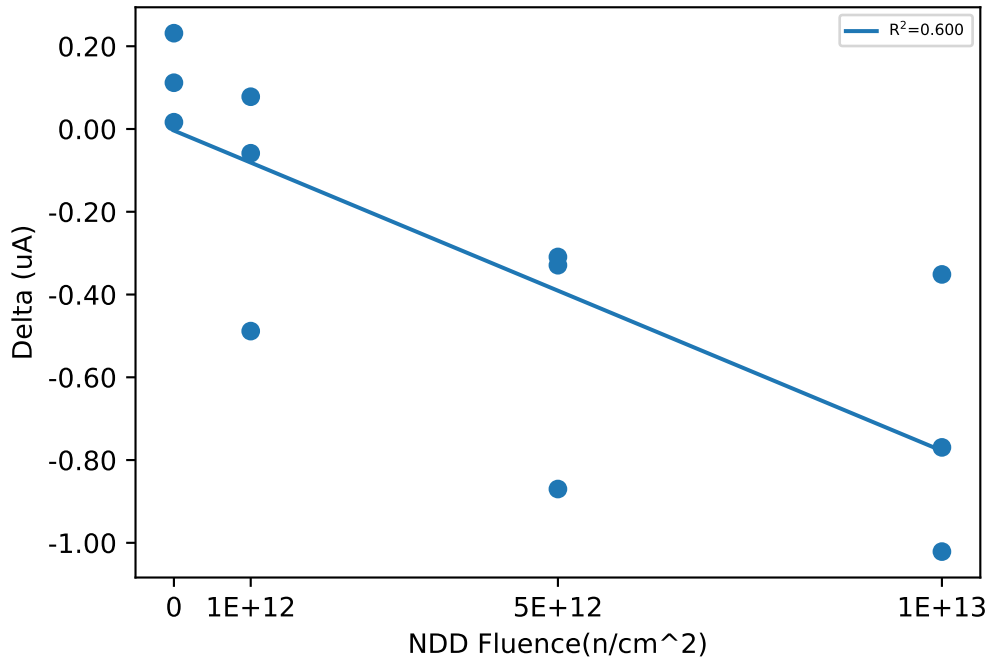
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	59.572	59.513	-0.0586
2	1e+12	NDD, unbiased	60.062	60.14	0.078
3	1e+12	NDD, unbiased	60.007	59.519	-0.4884
4	5e+12	NDD, unbiased	60.364	59.494	-0.87
5	5e+12	NDD, unbiased	59.865	59.535	-0.3292
6	5e+12	NDD, unbiased	59.945	59.636	-0.3092
7	1e+13	NDD, unbiased	60.3	59.279	-1.0212
8	1e+13	NDD, unbiased	60.071	59.302	-0.7694
9	1e+13	NDD, unbiased	60.021	59.669	-0.3514
10	0	correlation	59.204	59.22	0.0164
11	0	correlation	59.421	59.652	0.2315
12	0	correlation	59.759	59.87	0.1118

## NDD vs Post - Pre Exposure Delta

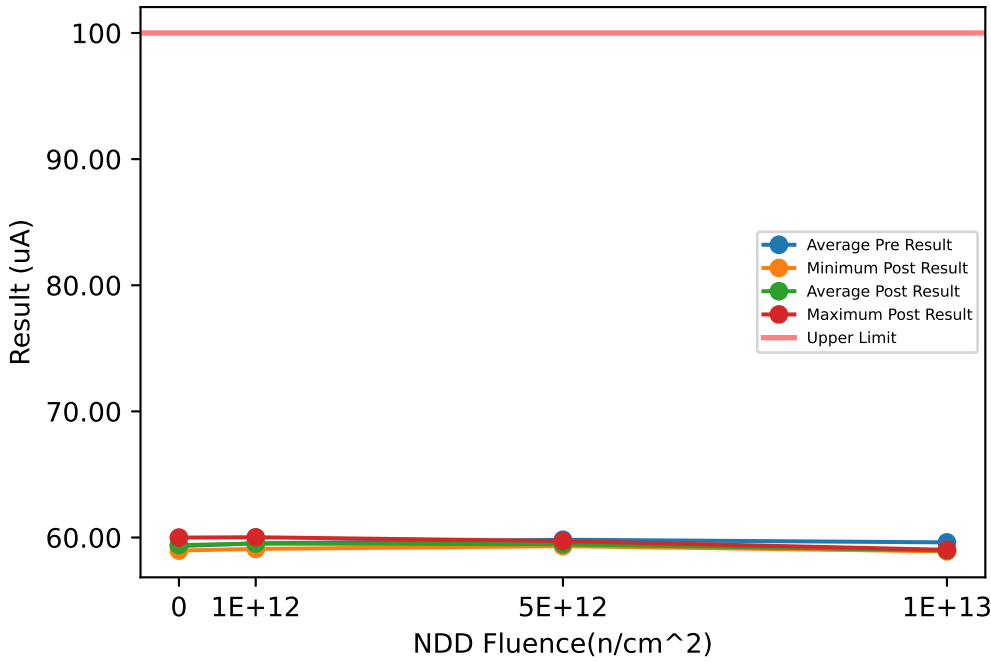


## Test Statistics (uA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	59.204	59.461	59.759	0.27948	59.22	59.581	59.87	0.33083	0.0164	0.1199	0.2315	0.10778
1e+12	59.572	59.88	60.062	0.26861	59.513	59.724	60.14	0.36036	-0.4884	-0.15633	0.078	0.29558
5e+12	59.865	60.058	60.364	0.26792	59.494	59.555	59.636	0.073085	-0.87	-0.5028	-0.3092	0.31816
1e+13	60.021	60.131	60.3	0.14891	59.279	59.417	59.669	0.21922	-1.0212	-0.714	-0.3514	0.33832

# Device Test: 9.3 UJ5EAX(IOL\_OFF\_OUT2\_UJ5EAX)

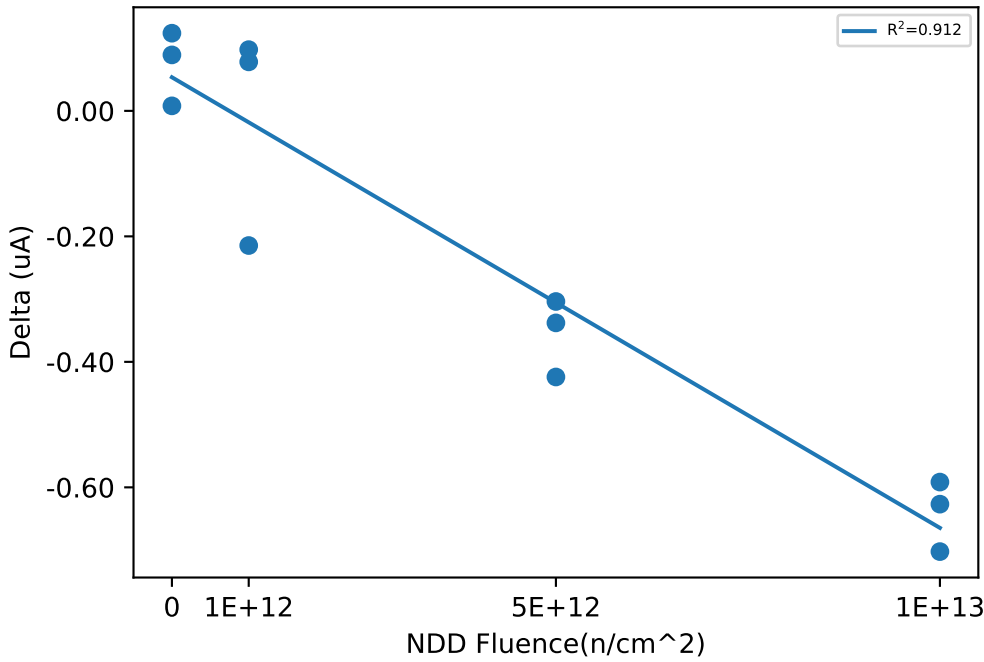
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	59.368	59.446	0.0781
2	1e+12	NDD, unbiased	60.235	60.02	-0.2146
3	1e+12	NDD, unbiased	58.999	59.097	0.0976
4	5e+12	NDD, unbiased	60.143	59.719	-0.4241
5	5e+12	NDD, unbiased	59.622	59.318	-0.3038
6	5e+12	NDD, unbiased	59.708	59.37	-0.3379
7	1e+13	NDD, unbiased	59.526	58.9	-0.6268
8	1e+13	NDD, unbiased	59.617	59.025	-0.5916
9	1e+13	NDD, unbiased	59.7	58.997	-0.7024
10	0	correlation	59.142	59.231	0.0892
11	0	correlation	58.843	58.966	0.1238
12	0	correlation	59.987	59.995	0.008

## NDD vs Post - Pre Exposure Delta

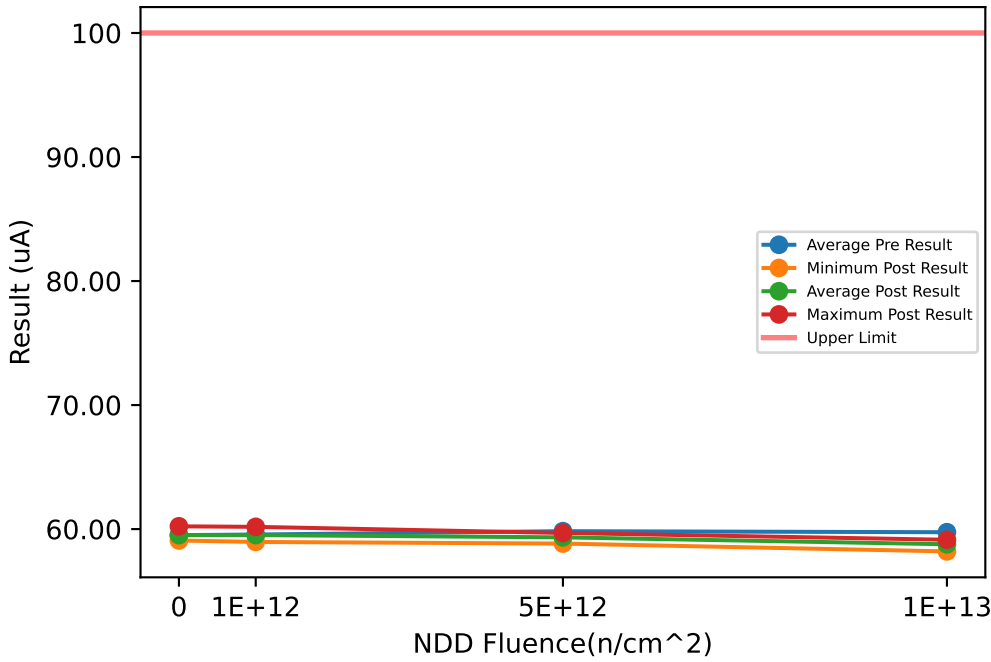


## Test Statistics (uA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	58.843	59.324	59.987	0.59354	58.966	59.398	59.995	0.53415	0.008	0.073667	0.1238	0.059442
1e+12	58.999	59.534	60.235	0.63446	59.097	59.521	60.02	0.46639	-0.2146	-0.012967	0.0976	0.17489
5e+12	59.622	59.824	60.143	0.27962	59.318	59.469	59.719	0.21822	-0.4241	-0.35527	-0.3038	0.062002
1e+13	59.526	59.614	59.7	0.086625	58.9	58.974	59.025	0.065858	-0.7024	-0.64027	-0.5916	0.056614

# Device Test: 9.4 UJ5EAX(IOL\_OFF\_OUT3\_UJ5EAX)

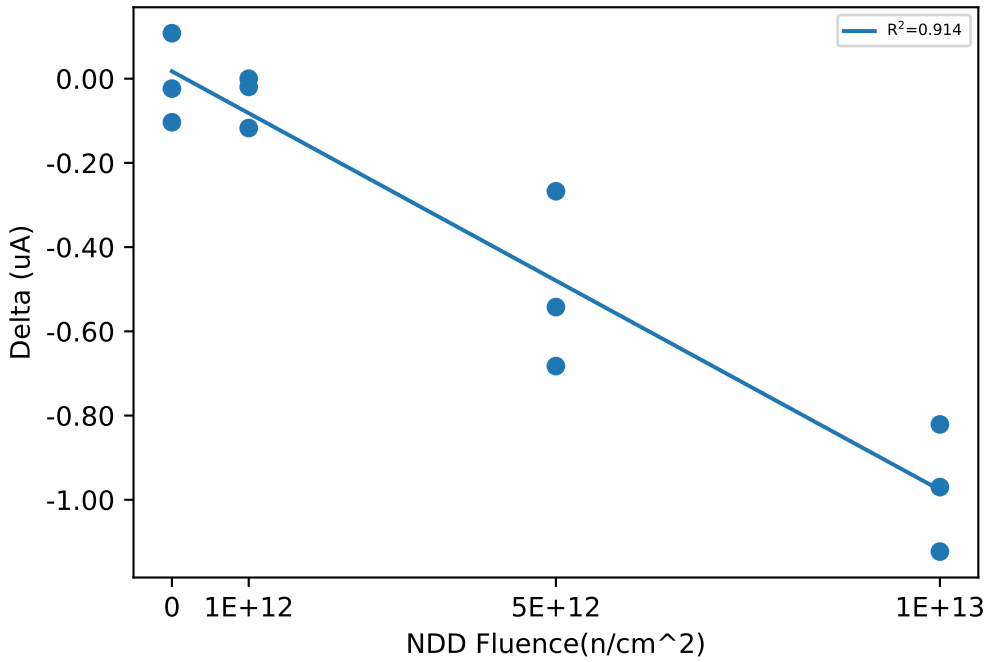
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	59.081	58.964	-0.1173
2	1e+12	NDD, unbiased	60.2	60.18	-0.0195
3	1e+12	NDD, unbiased	59.404	59.404	0
4	5e+12	NDD, unbiased	60.37	59.687	-0.6825
5	5e+12	NDD, unbiased	59.101	58.834	-0.2673
6	5e+12	NDD, unbiased	60.024	59.482	-0.5424
7	1e+13	NDD, unbiased	60.263	59.14	-1.123
8	1e+13	NDD, unbiased	59.96	58.99	-0.9699
9	1e+13	NDD, unbiased	59.023	58.202	-0.821
10	0	correlation	59.185	59.081	-0.1035
11	0	correlation	59.248	59.224	-0.0236
12	0	correlation	60.116	60.224	0.108

## NDD vs Post - Pre Exposure Delta

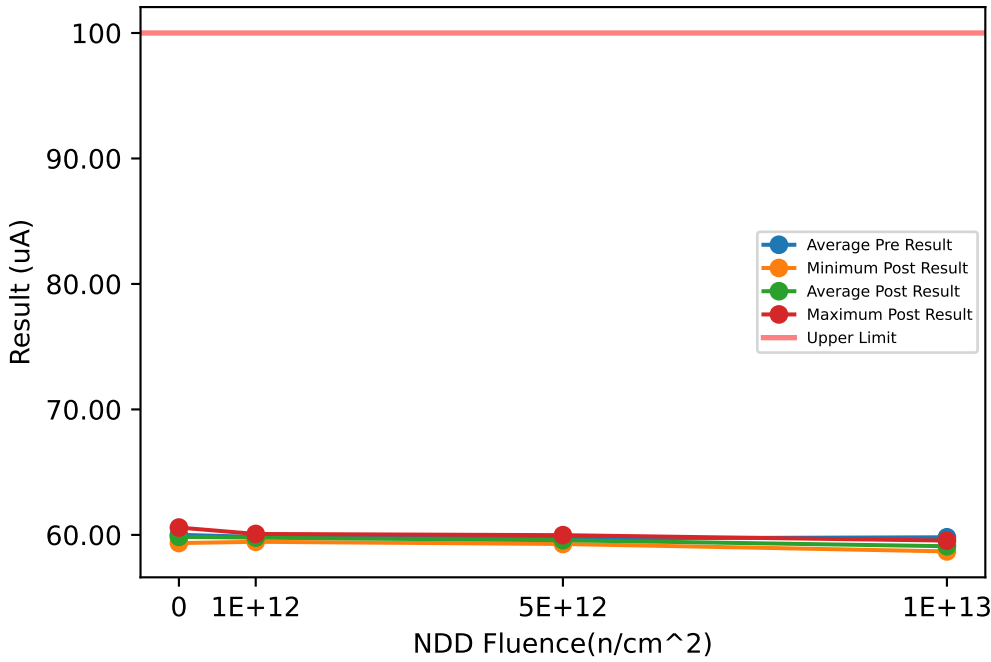


## Test Statistics (uA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	59.185	59.516	60.116	0.52036	59.081	59.51	60.224	0.62255	-0.1035	-0.0063667	0.108	0.1068
1e+12	59.081	59.562	60.2	0.57578	58.964	59.516	60.18	0.61593	-0.1173	-0.0456	0	0.062855
5e+12	59.101	59.832	60.37	0.65602	58.834	59.334	59.687	0.44559	-0.6825	-0.4974	-0.2673	0.21123
1e+13	59.023	59.748	60.263	0.64655	58.202	58.777	59.14	0.50397	-1.123	-0.9713	-0.821	0.151

# Device Test: 9.5 UJ5EAX(IOL\_OFF\_OUT4\_UJ5EAX)

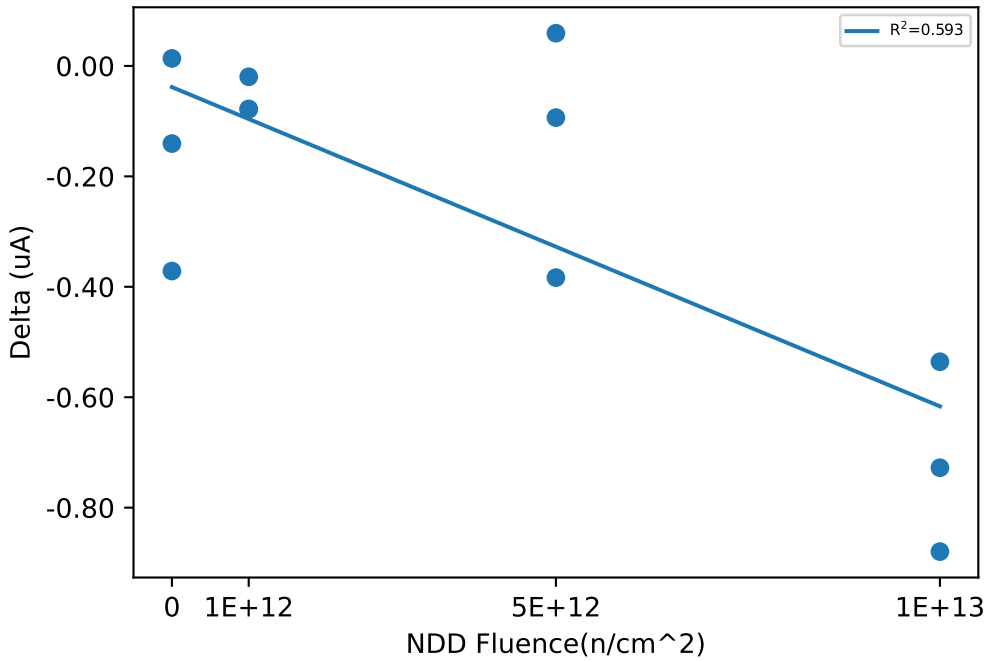
## NDD vs Result Stats



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

Serial #	Fluence(n/cm <sup>2</sup> )	Exposure Conditions	Pre Result	Post Result	Delta
1	1e+12	NDD, unbiased	59.897	59.819	-0.0782
2	1e+12	NDD, unbiased	60.154	60.075	-0.0781
3	1e+12	NDD, unbiased	59.469	59.45	-0.0196
4	5e+12	NDD, unbiased	59.85	59.467	-0.3834
5	5e+12	NDD, unbiased	59.369	59.275	-0.0936
6	5e+12	NDD, unbiased	59.919	59.979	0.0593
7	1e+13	NDD, unbiased	60.273	59.545	-0.7277
8	1e+13	NDD, unbiased	59.596	59.061	-0.5357
9	1e+13	NDD, unbiased	59.564	58.685	-0.8796
10	0	correlation	59.49	59.349	-0.1406
11	0	correlation	59.959	59.588	-0.3715
12	0	correlation	60.573	60.586	0.0136

## NDD vs Post - Pre Exposure Delta



## Test Statistics (uA)

Fluence(n/cm <sup>2</sup> )	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	59.49	60.007	60.573	0.54285	59.349	59.841	60.586	0.65615	-0.3715	-0.16617	0.0136	0.19382
1e+12	59.469	59.84	60.154	0.34567	59.45	59.781	60.075	0.31456	-0.0782	-0.058633	-0.0196	0.033804
5e+12	59.369	59.713	59.919	0.29984	59.275	59.574	59.979	0.36367	-0.3834	-0.13923	0.0593	0.22485
1e+13	59.564	59.811	60.273	0.39999	58.685	59.097	59.545	0.43119	-0.8796	-0.71433	-0.5357	0.17234



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